



MPE TEST REPORT

Report No.: SHE22070051-02AE

Date: 2022-09-01

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Applicant : Kunshan Quanbao Electronic Co., LTD
Address of Applicant : 515 Lidu Road, Qiandeng Town, Kunshan City, Jiangsu Province, China

Product Name : Card reader module
Brand Name : /
Model No. : QB-RS663
Sample No. : E22070051-01#01

FCC ID : 2A78TQBR5663
Standards : FCC Part 2.1093

Date of Receipt : 2022-07-19
Date of Test : 2022-07-27
Date of Issue : 2022-09-01

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Services (Shanghai) Co., Ltd.
Address	No.1298, Pingan Road, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060
Ambient noise & Reflection (W/kg)	< 0.012

1.3 Details of Application

Applicant Company Name	Kunshan Quanbao Electronic Co., LTD
Address	515 Lidu Road, Qiandeng Town, Kunshan City, Jiangsu Province, China
Contact Person	Wang Shaobin
Telephone	18168708767
Email	wangshaobin@ksqbdz.com
Manufacturer Company Name	/
Address	/
Factory Company Name	/
Address	/

1.4 Details of EUT

Product Name	Card reader module
Brand Name	/
Test Model No.	QB-RS663
FCC ID	2A78TQBRS663
Operation Frequency	13.56MHz
Modulation Type	ASK
Antenna Type	Inductance coil Antenna
Antenna Gain	2dBi
Hardware version	QB-RS663-V0.1A
Software version	QB_RS663_V1.09



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2 Assessment methods

According to 447498 D01 General RF Exposure Guidance v06

Appendix C

SAR Test Exclusion Thresholds for < 100 MHz and < 200 mm

MHz	<50	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
100	237	474	481	487	494	501	507	514	521	527	534	541	547	554	561	567	mW
50	308	617	625	634	643	651	660	669	677	686	695	703	712	721	729	738	
10	474	948	961	975	988	1001	1015	1028	1041	1055	1068	1081	1095	1108	1121	1135	
1	711	1422	1442	1462	1482	1502	1522	1542	1562	1582	1602	1622	1642	1662	1682	1702	
0.1	948	1896	1923	1949	1976	2003	2029	2056	2083	2109	2136	2163	2189	2216	2243	2269	
0.05	1019	2039	2067	2096	2125	2153	2182	2211	2239	2268	2297	2325	2354	2383	2411	2440	
0.01	1185	2370	2403	2437	2470	2503	2537	2570	2603	2637	2670	2703	2737	2770	2803	2837	

Test Data

Mode	13.56 MHz
	ASK
Field strength (dBuV/m)	70.98
Peak Power (dBm)	-24.25
Note: This report listed the worst case value, please refer to RF test Report No. SHE22070051-02GE	
Test Result Radiated Emission 5.1.4.	

Turn-up power

Mode	Power Range (dBm)
13.56 MHz	(-25.00) – (-24.00)

Mode	Turn-up Power (dBm)	Turn-up Power (mW)	Separation Distance (mm)	Limit (mW)
13.56 MHz	-24.00	0.003981	5	308-474

3 Conclusion

Per KDB 447498 D01v06, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. SAR evaluation for a device with a separation distance of 5 mm at 13.56 MHz is 0.003981mW, so SAR testing is not required.RF exposure Evaluation Results: Compliance.

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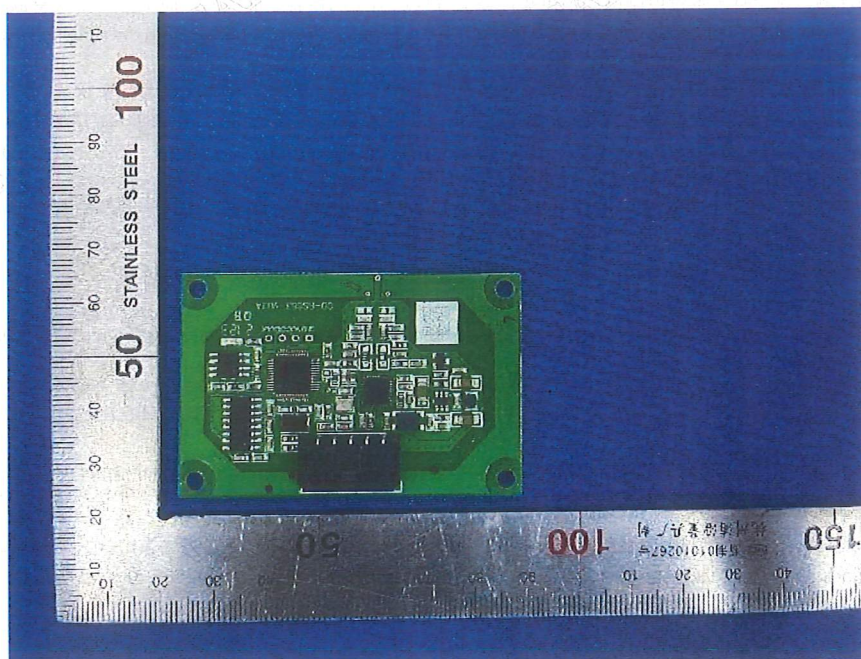
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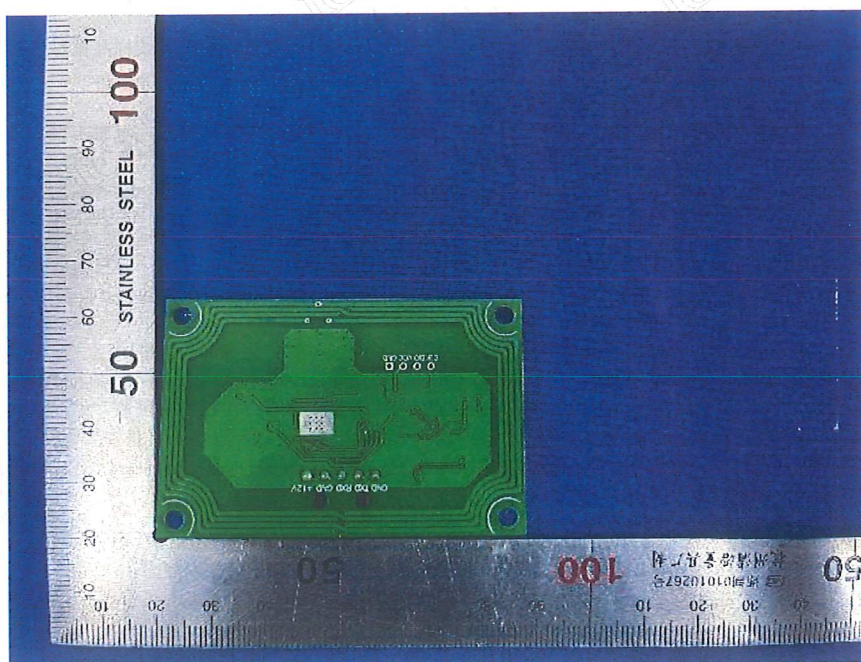
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4 Appendixes

4.1 Sample Photograph



Front of the sample



Rear of the sample

End of the report

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