FCC RF Exposure Report

FCC ID : SQG-MSD45N
Equipment : 45 Series Pluggable module
Model No. : MSD45N
Brand Name : Laird Technologies
Applicant : Laird Technologies
Address : 11160 Thompson Ave. / Lenexa, Kansas / 66219 / USA
Standard : 47 CFR FCC Part 2.1091
Received Date : Jul. 29, 2015
Tested Date : Jul. 31 ~ Aug. 17, 2015

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:

Gary Chang / Manager
# Table of Contents

1 MPE EVALUATION OF MOBILE DEVICES ........................................................................................................4
1.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE ............................................4
1.2 MPE EVALUATION FORMULA ..................................................................................................................4
1.3 MPE EVALUATION RESULTS ...................................................................................................................4

2 TEST LABORATORY INFORMATION ...........................................................................................................5
## Release Record

<table>
<thead>
<tr>
<th>Report No.</th>
<th>Version</th>
<th>Description</th>
<th>Issued Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA371704-01</td>
<td>Rev. 01</td>
<td>Initial issue</td>
<td>Sep. 04, 2015</td>
</tr>
</tbody>
</table>
1 MPE EVALUATION OF MOBILE DEVICES

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

1.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

<table>
<thead>
<tr>
<th>Frequency Range (MHz)</th>
<th>Power Density (mW/cm²)</th>
<th>Averaging Time (minutes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>300~1500</td>
<td>F/1500</td>
<td>30</td>
</tr>
<tr>
<td>1500~100000</td>
<td>1.0</td>
<td>30</td>
</tr>
</tbody>
</table>

1.2 MPE EVALUATION FORMULA

\[ Pd = \frac{Pt}{4 \times Pi \times R^2} \]

Where

- \( Pd \) = Power density in mW/cm²
- \( Pt \) = EIRP in mW
- \( Pi \) = 3.1416
- \( R \) = Measurement distance

1.3 MPE EVALUATION RESULTS

<table>
<thead>
<tr>
<th>Frequency Range (MHz)</th>
<th>Maximum Conducted Power (dBm)</th>
<th>Antenna Gain (dBi)</th>
<th>Distance (cm)</th>
<th>Power Density (mW/cm²)</th>
<th>Limit (mW/cm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5745~5825</td>
<td>18.62</td>
<td>4</td>
<td>20</td>
<td>0.036</td>
<td>1</td>
</tr>
</tbody>
</table>
2 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp. it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website http://www.icertifi.com.tw.

<table>
<thead>
<tr>
<th>Linkou</th>
<th>Kwei Shan</th>
<th>Kwei Shan Site II</th>
</tr>
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<tbody>
<tr>
<td>No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.</td>
<td>No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.</td>
<td>No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.</td>
</tr>
</tbody>
</table>

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If you have any suggestion, please feel free to contact us as below information

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