The following sample(s) was/were submitted and identified on behalf of the clients as: Wireless RF Module

SGS Job No.: RP19-007064 - SZ
Model No.: RFM300
Client Ref. Info.: PLEASE SEE REMARK
Date of Sample Received: 11 Apr 2019
Testing Period: 11 Apr 2019 - 18 Apr 2019
Test Requested: Selected test(s) as requested by client.
Test Method: Please refer to next page(s).
Test Results: Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Ford Shi
Approved Signatory
Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description
SN1 SZX19-007178.001 "Wireless RF Module" (mixed)

Remarks:

1. 1 mg/kg = 1 ppm = 0.0001%
2. MDL = Method Detection Limit
3. ND = Not Detected (< MDL)
4. "-" = Not Regulated

Elementary Analysis, Flame Retardants & Phthalate(s)


<table>
<thead>
<tr>
<th>Test Item(s)</th>
<th>Limit</th>
<th>Unit</th>
<th>MDL</th>
<th>001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Cd)</td>
<td>100</td>
<td>mg/kg</td>
<td>2</td>
<td>ND</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>1,000</td>
<td>mg/kg</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>1,000</td>
<td>mg/kg</td>
<td>2</td>
<td>ND</td>
</tr>
<tr>
<td>Hexavalent Chromium (Cr(VI))</td>
<td>1,000</td>
<td>mg/kg</td>
<td>8</td>
<td>ND</td>
</tr>
<tr>
<td>Sum of PBBS</td>
<td>1,000</td>
<td>mg/kg</td>
<td>-</td>
<td>ND</td>
</tr>
<tr>
<td>Monobromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Dibromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Tribromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Tetrabromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Pentabromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Hexabromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Heptabromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Octabromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Nonabromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Decabromobiphenyl</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Sum of PBDExs</td>
<td>1,000</td>
<td>mg/kg</td>
<td>-</td>
<td>ND</td>
</tr>
<tr>
<td>Monobromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Dibromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Tribromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
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<td>ND</td>
</tr>
<tr>
<td>Tetrabromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Pentabromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
</tbody>
</table>
### Test Report

**No. SZXEC1900717801**  
**Date: 19 Apr 2019**  
**Page 3 of 7**

<table>
<thead>
<tr>
<th>Test Item(s)</th>
<th>Limit</th>
<th>Unit</th>
<th>MDL</th>
<th>001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexabromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Heptabromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Octabromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Nonabromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Decabromodiphenyl ether</td>
<td>-</td>
<td>mg/kg</td>
<td>5</td>
<td>ND</td>
</tr>
<tr>
<td>Dibutyl Phthalate (DBP)</td>
<td>1000</td>
<td>mg/kg</td>
<td>50</td>
<td>ND</td>
</tr>
<tr>
<td>Butyl benzyl Phthalate (BBP)</td>
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<td>mg/kg</td>
<td>50</td>
<td>ND</td>
</tr>
<tr>
<td>Bis(2-ethylhexyl) Phthalate (DEHP)</td>
<td>1000</td>
<td>mg/kg</td>
<td>50</td>
<td>ND</td>
</tr>
<tr>
<td>Diisobutyl Phthalate (DIBP)</td>
<td>1000</td>
<td>mg/kg</td>
<td>50</td>
<td>ND</td>
</tr>
</tbody>
</table>

**Notes:**

1. The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series.


3. 7,25

**Remark:** The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.
REMARK:

RFM300, RFM380F32, RMF99, RFM90, RFM01, RFM02, RFM12
RFM12B, RFM12BP, RFM22B, RFM23B, RFM24, RFM26
RFM31B, RFM31BJ, RFM42B, RFM43B, RFM43BJ, RFM50
RFM62, RFM63, RFM64, RFM65, RFM66, RFM67, RFM68
RFM69, RFM73, RFM75, RFM83C, RFM83A, RFM83CL
RFM92, RFM93, RFM95, RFM96, RFM97, RFM98, HM-T
HM-R, HM-TRP, HM-TRLR, RFM110, RFM210, RFM210LC
RFM210LS, RFM113, RFM213, RFM217, RFM217LB,
RFM217B, RFM210LB, RFM210LA, HM-LWNL, RFM6501
HM-LWNH, RFM119, RFM219, RFM119B, RFM219B
ATTACHMENTS

Pb/Cd/Hg/Cr\textsuperscript{6+}/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr\textsuperscript{6+} and PBBs/PBDEs test method excluded).

- **Sample Preparation**
  - **Sample Measurement**
  - **Pb/Cd/Hg**
    - Acid digestion with microwave/hotplate
    - Filtration
    - Solution
    - 1) Alkali Fusion / Dry Ashing
    - 2) Acid to dissolve
    - ICP-OES/AAS
    - DATA
  - **PBBs/PBDEs**
    - Sample solvent extraction
    - Concentration/Dilution of extraction solution
    - Filtration
    - GC-MS
    - DATA
  - **Cr\textsuperscript{6+}**
    - Nonmetallic material
    - Metallic material
    - Boiling water extraction
    - Digesting at 150~160°C
    - Separating to get aqueous phase
    - Adding 1,5-diphenylcarbazide for color development
    - UV-Vis
    - DATA
  - **Others**
    - Dissolving by ultrasonication
    - Digesting at 60°C by ultrasonication
    - Separating to get aqueous phase
    - Adding 1,5-diphenylcarbazide for color development
    - UV-Vis
    - DATA
ATTACHMENTS

Phthalates Testing Flow Chart

1. Sample cutting / preparation
2. Sample Measurement
3. Solvent extraction
4. Concentration/Dilution
5. Filtration
6. GC-MS
7. DATA
Test Report

No. SZXEC1900717801  Date: 19 Apr 2019  Page 7 of 7

Sample photo:

SGS authenticate the photo on original report only

*** End of Report ***