

# Test Report

No.: 68.431.22.4484.01

Date: 2022-12-19



Greater China

**Applicant:** Spector & CO  
**Address:** /  
**Product Name:** Bluetooth cylindrical speaker  
**Item No.:** T236  
**Style No.:** ADDI FLASH  
**End Use:** Technology  
**Supplier:** USU019  
**Country of Origin:** CHINA  
**Country of Destination:** CANADA & U.S.A.  
**Receipt Date of Sample:** 2022-10-20  
**Date of Testing:** From 2022-10-20 to 2022-12-19  
**Sample Submitted:** The sample(s) was (were) submitted by applicant and identified.  
**Test Result:** Refer to the data listed in following pages

| Test Item  | Conclusion   |
|--|--------------|
| 1. US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials | Pass*        |
| 2. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials                         | Pass*        |
| 3. US California Proposition 65 - Total lead Content Test - Paint and Similar Surface-Coating Materials    | Pass*        |
| 4. US California Proposition 65 - Total Lead Content Test - Substrate Materials                            | Pass*        |
| 5. Phthalates Content (11P)  | Pass*        |
| 6. Tungsten Content Test   | Report As Is |
| 7. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Lead Content Test                   | Pass         |
| 8. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test            | Pass         |
| 9. Total Nickel Content Test   | Report As Is |
| 10. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)                    | Pass         |
| 11. US California Proposition 65 - Phthalates Content (6P)   | Pass*        |
| 12. Canadian Products Containing Mercury Regulations SOR/2014-254 - Total Mercury Content Test             | Pass         |
| 13. Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)   | Pass*        |

Remarks: 1. MDL = Method Detection Limit  
2. N.D. = Not Detected (<MDL)  
3. ≤ Less than  
4. 1 mg/kg = 1 ppm = 0.0001%  
5. NA=Not Applicable

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Testing Center

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Authorized by:

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Eva Liang

Jojo Zhao  
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- (4) If relevant standards do not specify decision rule(s), follow decision rule as below:
  - "Pass" means that the measured result is within the limits, even when extended by expanded uncertainty at a level of confidence of 95%.
  - "Fail" means that the measured result is beyond the limit, even when extended by expanded uncertainty at a level of confidence of 95%.
- (5) The test item and sample were specified by the client.
- (6) "" denotes the conclusion was drawn according to the client's specification.

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Description of Tested Subject:

| Sample | Description                    | Photo   |
|--------|--------------------------------|---|
| A      | Whole product                  |  |
| 001    | Black coating (Net of speaker) |   |

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| Sample | Description   | Photo  |
|--------|---|--|
| 002    | Silvery metal (Net of speaker)                                  |    |
| 003    | Transparent plastic (Upper light ring)                          |   |
| 004    | Translucent plastic (Lower light ring)                          |  |
| 005    | Black plastic (Shell)   |  |
| 006    | Black plastic w/ silvery printing (Shell)                       |  |
| 007    | Silvery coating (Control panel)                                 |  |
| 008    | Transparent laminated grey printed white paper sticker (Bottom) |  |
| 009    | Black soft plastic w/ adhesive backing (Foot pad)               |  |

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| Sample | Description  | Photo  |
|--------|--|--|
| 010    | Dark blue plated silvery metal (Shell)<br>(Blue style) |    |
| 011    | Red plated silvery metal (Shell) (Red style)           |   |
| 012    | Black plated silvery metal (Shell)<br>(Black style)    |  |

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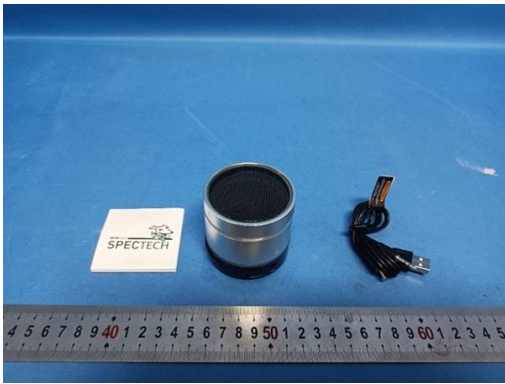


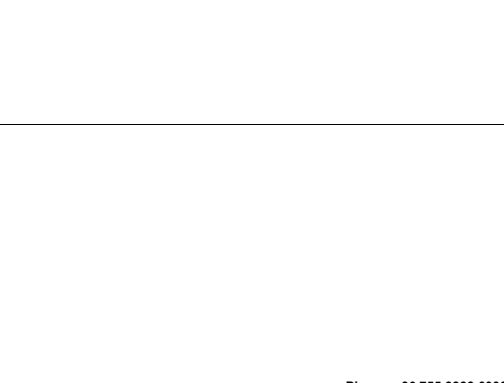
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| Sample | Description   | Photo  |
|--------|---|--|
| 013    | Silvery plated silvery metal (Shell)<br>(Silvery style)                           |    |
| 014    | Silvery metal (Tip of 3.5mm plug)   |   |
| 015    | Black plastic (3.5mm plug)  |  |
| 016    | Silvery metal (Second part of 3.5mm plug)   |  |
| 017    | Silvery metal (Third part of 3.5mm plug)  |  |
| 018    | Black soft plastic (3.5mm plug, micro-USB plug, USB-A plug)                       |  |
| 019    | Silvery metal (USB-A plug)  |  |
| 020    | White plastic (USB-A plug)  |  |
| 021    | Black soft plastic (Cable jacket)   |  |
| 022    | Transparent laminated orange / black printed white paper sticker (Label of cable) |  |
| 023    | Silvery metal (Micro-USB plug)  |  |

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| Sample | Description                                | Photo  |
|--------|--|--|
| 024    | Dark grey plastic (Micro-USB plug)         |    |
| 025    | Green / white printed brown PCB (Main PCB) |   |
| 032    | Red soft plastic (Wire jacket inner cable) |  |

| T. No | Sample | Description   |
|-------|--------|---|
| T1    | 001    | Black coating (Net of speaker)                                  |
| T2    | 002    | Silvery metal (Net of speaker)                                  |
| T3    | 003    | Transparent plastic (Upper light ring)                          |
| T4    | 004    | Translucent plastic (Lower light ring)                          |
| T5    | 005    | Black plastic (Shell)   |
| T6    | 006    | Black plastic w/ silvery printing (Shell)                       |
| T7    | 007    | Silvery coating (Control panel)                                 |
| T8    | 008    | Transparent laminated grey printed white paper sticker (Bottom) |

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| T. No | Sample | Description   |
|-------|--------|---|
| T9    | 009    | Black soft plastic w/ adhesive backing (Foot pad)                                 |
| T10   | 010    | Dark blue plated silvery metal (Shell) (Blue style)                               |
| T11   | 011    | Red plated silvery metal (Shell) (Red style)                                      |
| T12   | 012    | Black plated silvery metal (Shell) (Black style)                                  |
| T13   | 013    | Silvery plated silvery metal (Shell) (Silvery style)                              |
| T14   | 014    | Silvery metal (Tip of 3.5mm plug)   |
| T15   | 015    | Black plastic (3.5mm plug)  |
| T16   | 016    | Silvery metal (Second part of 3.5mm plug)   |
| T17   | 017    | Silvery metal (Third part of 3.5mm plug)  |
| T18   | 018    | Black soft plastic (3.5mm plug, micro-USB plug, USB-A plug)                       |
| T19   | 019    | Silvery metal (USB-A plug)  |
| T20   | 020    | White plastic (USB-A plug)  |
| T21   | 021    | Black soft plastic (Cable jacket)   |
| T22   | 022    | Transparent laminated orange / black printed white paper sticker (Label of cable) |
| T23   | 023    | Silvery metal (Micro-USB plug)  |
| T24   | 024    | Dark grey plastic (Micro-USB plug)  |
| T25   | 025    | Green / white printed brown PCB (Main PCB)  |
| T26   | 032    | Red soft plastic (Wire jacket inner cable)  |



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**Test Result(s):**

**1. US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials**

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample | Unit  | MDL | Client's Limit | Result(s) | Conclusion |
|--------|-------|-----|----------------|-----------|------------|
| 001    | mg/kg | 10  | 75             | N.D.      | Pass       |
| 007    | mg/kg | 10  | 75             | N.D.      | Pass       |

**2. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials**

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample      | Unit  | MDL | Client's Limit | Result(s) | Conclusion |
|-------------|-------|-----|----------------|-----------|------------|
| 002         | mg/kg | 10  | 75             | N.D.      | Pass       |
| 003+004+008 | mg/kg | 10  | 75             | N.D.      | Pass       |
| 005+022     | mg/kg | 10  | 75             | N.D.      | Pass       |
| 009+018+021 | mg/kg | 10  | 75             | N.D.      | Pass       |
| 010         | mg/kg | 10  | 75             | N.D.      | Pass       |
| 011         | mg/kg | 10  | 75             | N.D.      | Pass       |
| 012         | mg/kg | 10  | 75             | N.D.      | Pass       |
| 013         | mg/kg | 10  | 75             | N.D.      | Pass       |
| 014         | mg/kg | 10  | 75             | N.D.      | Pass       |
| 015+020     | mg/kg | 10  | 75             | N.D.      | Pass       |
| 016         | mg/kg | 10  | 75             | N.D.      | Pass       |
| 017         | mg/kg | 10  | 75             | N.D.      | Pass       |
| 019         | mg/kg | 10  | 75             | N.D.      | Pass       |
| 023         | mg/kg | 10  | 75             | N.D.      | Pass       |
| 024         | mg/kg | 10  | 75             | N.D.      | Pass       |

**3. US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials**

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample | Unit  | MDL | Client's Limit | Result(s) | Conclusion |
|--------|-------|-----|----------------|-----------|------------|
| 001    | mg/kg | 10  | 90             | 34.7      | Pass       |
| 007    | mg/kg | 10  | 90             | N.D.      | Pass       |

**4. US California Proposition 65 - Total Lead Content Test - Substrate Materials**

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample | Unit | MDL | Client's Limit | Result(s) | Conclusion |
|--------|------|-----|----------------|-----------|------------|
|--------|------|-----|----------------|-----------|------------|

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|             |       |    |     |      |      |
|-------------|-------|----|-----|------|------|
| 002         | mg/kg | 10 | 100 | N.D. | Pass |
| 003+004+008 | mg/kg | 10 | 100 | N.D. | Pass |
| 005+022     | mg/kg | 10 | 100 | 37.8 | Pass |
| 009+018+021 | mg/kg | 10 | 100 | N.D. | Pass |
| 010         | mg/kg | 10 | 100 | N.D. | Pass |
| 011         | mg/kg | 10 | 100 | N.D. | Pass |
| 012         | mg/kg | 10 | 100 | N.D. | Pass |
| 013         | mg/kg | 10 | 100 | N.D. | Pass |
| 014         | mg/kg | 10 | 100 | 28.5 | Pass |
| 015+020     | mg/kg | 10 | 100 | N.D. | Pass |
| 016         | mg/kg | 10 | 100 | N.D. | Pass |
| 017         | mg/kg | 10 | 100 | N.D. | Pass |
| 019         | mg/kg | 10 | 100 | 66.8 | Pass |
| 023         | mg/kg | 10 | 100 | 48.7 | Pass |
| 024         | mg/kg | 10 | 100 | N.D. | Pass |

#### 5. Phthalates Content (11P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

| Parameter                            | CAS No.                    | Unit | MDL   | Client's Limit | Result(s)   |             |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
|                                      |                            |      |       |                | 001         | 003+004+008 |
| Diethyl phthalate(DEP)               | 84-66-2                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Benzyl butyl phthalate, (BBP)        | 85-68-7                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Diisobutylphthalate, (DIBP)          | 84-69-5                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Dibutyl phthalate, (DBP)             | 84-74-2                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-n-hexyl phthalate (DnHP)          | 84-75-3                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Dicyclohexyl phthalate (DCHP)        | 84-61-7                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7                   | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-n-octyl phthalate, (DNOP)         | 117-84-0                   | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isononyl phthalate, (DINP)        | 28553-12-0 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isodecyl phthalate, (DIDP)        | 26761-40-0 ,<br>68515-49-1 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-n-pentyl phthalates (DnPP)        | 131-18-0                   | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| <b>Conclusion</b>                    |                            |      |       |                | <b>Pass</b> | <b>Pass</b> |

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| Parameter                            | CAS No.                    | Unit | MDL   | Client's Limit | Result(s)   |             |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
|                                      |                            |      |       |                | 005+022     | 007         |
| Diethyl phthalate(DEP)               | 84-66-2                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Benzyl butyl phthalate, (BBP)        | 85-68-7                    | %    | 0.005 | 0.1            | N.D.        | 0.011       |
| Diisobutylphthalate, (DIBP)          | 84-69-5                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Dibutyl phthalate, (DBP)             | 84-74-2                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-n-hexyl phthalate (DnHP)          | 84-75-3                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Dicyclohexyl phthalate (DCHP)        | 84-61-7                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7                   | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-n-octyl phthalate, (DNOP)         | 117-84-0                   | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isononyl phthalate, (DINP)        | 28553-12-0 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isodecyl phthalate, (DIDP)        | 26761-40-0 ,<br>68515-49-1 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-n-pentyl phthalates (DnPP)        | 131-18-0                   | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| <b>Conclusion</b>                    |                            |      |       |                | <b>Pass</b> | <b>Pass</b> |

| Parameter                            | CAS No.                    | Unit | MDL   | Client's Limit | Result(s)   |             |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
|                                      |                            |      |       |                | 009         | 018         |
| Diethyl phthalate(DEP)               | 84-66-2                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Benzyl butyl phthalate, (BBP)        | 85-68-7                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Diisobutylphthalate, (DIBP)          | 84-69-5                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Dibutyl phthalate, (DBP)             | 84-74-2                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-n-hexyl phthalate (DnHP)          | 84-75-3                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Dicyclohexyl phthalate (DCHP)        | 84-61-7                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7                   | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-n-octyl phthalate, (DNOP)         | 117-84-0                   | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isononyl phthalate, (DINP)        | 28553-12-0 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isodecyl phthalate, (DIDP)        | 26761-40-0 ,<br>68515-49-1 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-n-pentyl phthalates (DnPP)        | 131-18-0                   | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| <b>Conclusion</b>                    |                            |      |       |                | <b>Pass</b> | <b>Pass</b> |

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| Parameter                            | CAS No.                    | Unit | MDL   | Client's Limit | Result(s)   |             |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
|                                      |                            |      |       |                | 021         | 015+020     |
| Diethyl phthalate(DEP)               | 84-66-2                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Benzyl butyl phthalate, (BBP)        | 85-68-7                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Diisobutylphthalate, (DIBP)          | 84-69-5                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Dibutyl phthalate, (DBP)             | 84-74-2                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-n-hexyl phthalate (DnHP)          | 84-75-3                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Dicyclohexyl phthalate (DCHP)        | 84-61-7                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7                   | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-n-octyl phthalate, (DNOP)         | 117-84-0                   | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isononyl phthalate, (DINP)        | 28553-12-0 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isodecyl phthalate, (DIDP)        | 26761-40-0 ,<br>68515-49-1 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-n-pentyl phthalates (DnPP)        | 131-18-0                   | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| <b>Conclusion</b>                    |                            |      |       |                | <b>Pass</b> | <b>Pass</b> |

| Parameter                            | CAS No.                    | Unit | MDL   | Client's Limit | Result(s) |
|--------------------------------------|----------------------------|------|-------|----------------|-----------|
|                                      |                            |      |       |                | 024       |
| Diethyl phthalate(DEP)               | 84-66-2                    | %    | 0.005 | 0.1            | N.D.      |
| Benzyl butyl phthalate, (BBP)        | 85-68-7                    | %    | 0.005 | 0.1            | N.D.      |
| Diisobutylphthalate, (DIBP)          | 84-69-5                    | %    | 0.005 | 0.1            | N.D.      |
| Dibutyl phthalate, (DBP)             | 84-74-2                    | %    | 0.005 | 0.1            | N.D.      |
| Di-n-hexyl phthalate (DnHP)          | 84-75-3                    | %    | 0.005 | 0.1            | N.D.      |
| Dicyclohexyl phthalate (DCHP)        | 84-61-7                    | %    | 0.005 | 0.1            | N.D.      |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7                   | %    | 0.005 | 0.1            | N.D.      |
| Di-n-octyl phthalate, (DNOP)         | 117-84-0                   | %    | 0.005 | 0.1            | N.D.      |
| Di-isononyl phthalate, (DINP)        | 28553-12-0 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.      |
| Di-isodecyl phthalate, (DIDP)        | 26761-40-0 ,<br>68515-49-1 | %    | 0.005 | 0.1            | N.D.      |
| Di-n-pentyl phthalates (DnPP)        | 131-18-0                   | %    | 0.005 | 0.1            | N.D.      |

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|                   |             |
|-------------------|-------------|
| <b>Conclusion</b> | <b>Pass</b> |
|-------------------|-------------|

**6. Tungsten Content Test**

Test with reference to acid digestion and determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

| Test items        | Unit  | MDL  | Maximum Permissible Limit | Result(s)           |
|-------------------|-------|------|---------------------------|---------------------|
|                   |       |      |                           | 002                 |
| Tungsten(W)       | mg/kg | 10.0 | -                         | N.D.                |
| <b>Conclusion</b> |       |      |                           | <b>Report As Is</b> |

**7. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Lead Content Test**

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample | Unit  | MDL | Limit | Result(s) | Conclusion |
|--------|-------|-----|-------|-----------|------------|
| 001    | mg/kg | 10  | 90    | 34.7      | Pass       |
| 007    | mg/kg | 10  | 90    | N.D.      | Pass       |

**8. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test**

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample      | Unit  | MDL | Limit | Result(s) | Conclusion |
|-------------|-------|-----|-------|-----------|------------|
| 001         | mg/kg | 10  | 90    | 34.7      | Pass       |
| 002         | mg/kg | 10  | 90    | N.D.      | Pass       |
| 003+004+008 | mg/kg | 10  | 90    | N.D.      | Pass       |
| 005+022     | mg/kg | 10  | 90    | 37.8      | Pass       |
| 007         | mg/kg | 10  | 90    | N.D.      | Pass       |
| 009+018+021 | mg/kg | 10  | 90    | N.D.      | Pass       |
| 010         | mg/kg | 10  | 90    | N.D.      | Pass       |
| 011         | mg/kg | 10  | 90    | N.D.      | Pass       |
| 012         | mg/kg | 10  | 90    | N.D.      | Pass       |
| 013         | mg/kg | 10  | 90    | N.D.      | Pass       |
| 014         | mg/kg | 10  | 90    | 28.5      | Pass       |
| 015+020     | mg/kg | 10  | 90    | N.D.      | Pass       |
| 016         | mg/kg | 10  | 90    | N.D.      | Pass       |
| 017         | mg/kg | 10  | 90    | N.D.      | Pass       |
| 019         | mg/kg | 10  | 90    | 66.8      | Pass       |
| 023         | mg/kg | 10  | 90    | 48.7      | Pass       |
| 024         | mg/kg | 10  | 90    | N.D.      | Pass       |

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9. Total Nickel Content Test

Test with reference to acid digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample | Unit  | MDL | Client's Limit | Result(s) | Conclusion   |
|--------|-------|-----|----------------|-----------|--------------|
| 002    | mg/kg | 5   | -              | 96.603    | Report As Is |
| 010    | mg/kg | 5   | -              | 74.585    | Report As Is |
| 011    | mg/kg | 5   | -              | 58.231    | Report As Is |
| 012    | mg/kg | 5   | -              | 95.970    | Report As Is |
| 013    | mg/kg | 5   | -              | 37.900    | Report As Is |
| 014    | mg/kg | 5   | -              | 2552.032  | Report As Is |
| 016    | mg/kg | 5   | -              | 9347.399  | Report As Is |
| 017    | mg/kg | 5   | -              | 10115.536 | Report As Is |
| 019    | mg/kg | 5   | -              | 121.829   | Report As Is |
| 023    | mg/kg | 5   | -              | 15172.414 | Report As Is |

10. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

| Parameter                            | CAS No.                    | Unit | MDL   | Limit | Result(s)   |             |
|--------------------------------------|----------------------------|------|-------|-------|-------------|-------------|
|                                      |                            |      |       |       | 001         | 003+004+008 |
| Benzyl butyl phthalate, (BBP)        | 85-68-7                    | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| Diisobutylphthalate, (DIBP)          | 84-69-5                    | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| Dibutyl phthalate, (DBP)             | 84-74-2                    | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| Di-n-hexyl phthalate (DnHP)          | 84-75-3                    | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| Dicyclohexyl phthalate (DCHP)        | 84-61-7                    | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7                   | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| Di-isononyl phthalate, (DINP)        | 28553-12-0 ,<br>68515-48-0 | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| Di-n-pentyl phthalates (DnPP)        | 131-18-0                   | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| <b>Conclusion</b>                    |                            |      |       |       | <b>Pass</b> | <b>Pass</b> |

| Parameter                     | CAS No. | Unit | MDL   | Limit | Result(s) |       |
|-------------------------------|---------|------|-------|-------|-----------|-------|
|                               |         |      |       |       | 005+022   | 007   |
| Benzyl butyl phthalate, (BBP) | 85-68-7 | %    | 0.005 | 0.1   | N.D.      | 0.011 |
| Diisobutylphthalate, (DIBP)   | 84-69-5 | %    | 0.005 | 0.1   | N.D.      | N.D.  |

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|                                      |                            |   |       |     |             |             |
|--------------------------------------|----------------------------|---|-------|-----|-------------|-------------|
| Dibutyl phthalate, (DBP)             | 84-74-2                    | % | 0.005 | 0.1 | N.D.        | N.D.        |
| Di-n-hexyl phthalate (DnHP)          | 84-75-3                    | % | 0.005 | 0.1 | N.D.        | N.D.        |
| Dicyclohexyl phthalate (DCHP)        | 84-61-7                    | % | 0.005 | 0.1 | N.D.        | N.D.        |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7                   | % | 0.005 | 0.1 | N.D.        | N.D.        |
| Di-isononyl phthalate, (DINP)        | 28553-12-0 ,<br>68515-48-0 | % | 0.005 | 0.1 | N.D.        | N.D.        |
| Di-n-pentyl phthalates (DnPP)        | 131-18-0                   | % | 0.005 | 0.1 | N.D.        | N.D.        |
| <b>Conclusion</b>                    |                            |   |       |     | <b>Pass</b> | <b>Pass</b> |

| Parameter                            | CAS No.                    | Unit | MDL   | Limit | Result(s)   |             |
|--------------------------------------|----------------------------|------|-------|-------|-------------|-------------|
|                                      |                            |      |       |       | 009         | 018         |
| Benzyl butyl phthalate, (BBP)        | 85-68-7                    | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| Diisobutylphthalate, (DIBP)          | 84-69-5                    | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| Dibutyl phthalate, (DBP)             | 84-74-2                    | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| Di-n-hexyl phthalate (DnHP)          | 84-75-3                    | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| Dicyclohexyl phthalate (DCHP)        | 84-61-7                    | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7                   | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| Di-isononyl phthalate, (DINP)        | 28553-12-0 ,<br>68515-48-0 | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| Di-n-pentyl phthalates (DnPP)        | 131-18-0                   | %    | 0.005 | 0.1   | N.D.        | N.D.        |
| <b>Conclusion</b>                    |                            |      |       |       | <b>Pass</b> | <b>Pass</b> |

| Parameter                            | CAS No.      | Unit | MDL   | Limit | Result(s) |         |
|--------------------------------------|--------------|------|-------|-------|-----------|---------|
|                                      |              |      |       |       | 021       | 015+020 |
| Benzyl butyl phthalate, (BBP)        | 85-68-7      | %    | 0.005 | 0.1   | N.D.      | N.D.    |
| Diisobutylphthalate, (DIBP)          | 84-69-5      | %    | 0.005 | 0.1   | N.D.      | N.D.    |
| Dibutyl phthalate, (DBP)             | 84-74-2      | %    | 0.005 | 0.1   | N.D.      | N.D.    |
| Di-n-hexyl phthalate (DnHP)          | 84-75-3      | %    | 0.005 | 0.1   | N.D.      | N.D.    |
| Dicyclohexyl phthalate (DCHP)        | 84-61-7      | %    | 0.005 | 0.1   | N.D.      | N.D.    |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7     | %    | 0.005 | 0.1   | N.D.      | N.D.    |
| Di-isononyl phthalate,               | 28553-12-0 , | %    | 0.005 | 0.1   | N.D.      | N.D.    |

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|                               |            |   |       |     |             |             |
|-------------------------------|------------|---|-------|-----|-------------|-------------|
| (DINP)                        | 68515-48-0 |   |       |     |             |             |
| Di-n-pentyl phthalates (DnPP) | 131-18-0   | % | 0.005 | 0.1 | N.D.        | N.D.        |
| <b>Conclusion</b>             |            |   |       |     | <b>Pass</b> | <b>Pass</b> |

| Parameter                            | CAS No.                 | Unit | MDL   | Limit | Result(s)   |  |
|--------------------------------------|-------------------------|------|-------|-------|-------------|--|
|                                      |                         |      |       |       | 024         |  |
| Benzyl butyl phthalate, (BBP)        | 85-68-7                 | %    | 0.005 | 0.1   | N.D.        |  |
| Diisobutylphthalate, (DIBP)          | 84-69-5                 | %    | 0.005 | 0.1   | N.D.        |  |
| Dibutyl phthalate, (DBP)             | 84-74-2                 | %    | 0.005 | 0.1   | N.D.        |  |
| Di-n-hexyl phthalate (DnHP)          | 84-75-3                 | %    | 0.005 | 0.1   | N.D.        |  |
| Dicyclohexyl phthalate (DCHP)        | 84-61-7                 | %    | 0.005 | 0.1   | N.D.        |  |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7                | %    | 0.005 | 0.1   | N.D.        |  |
| Di-isononyl phthalate, (DINP)        | 28553-12-0 , 68515-48-0 | %    | 0.005 | 0.1   | N.D.        |  |
| Di-n-pentyl phthalates (DnPP)        | 131-18-0                | %    | 0.005 | 0.1   | N.D.        |  |
| <b>Conclusion</b>                    |                         |      |       |       | <b>Pass</b> |  |

## 11. US California Proposition 65 - Phthalates Content (6P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

| Parameter                            | CAS No.                 | Unit | MDL   | Client's Limit | Result(s)   |             |
|--------------------------------------|-------------------------|------|-------|----------------|-------------|-------------|
|                                      |                         |      |       |                | 001         | 003+004+008 |
| Dibutyl phthalate, (DBP)             | 84-74-2                 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7                | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Benzyl butyl phthalate, (BBP)        | 85-68-7                 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isodecyl phthalate, (DIDP)        | 26761-40-0 , 68515-49-1 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-n-hexyl phthalate (DNHP)          | 84-75-3                 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isononyl phthalate, (DINP)        | 28553-12-0 , 68515-48-0 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| <b>Conclusion</b>                    |                         |      |       |                | <b>Pass</b> | <b>Pass</b> |

| Parameter | CAS No. | Unit | MDL | Client's | Result(s) |
|-----------|---------|------|-----|----------|-----------|
|-----------|---------|------|-----|----------|-----------|

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|                                      |                            |   |       | Limit | 005+022     | 007         |
|--------------------------------------|----------------------------|---|-------|-------|-------------|-------------|
| Dibutyl phthalate, (DBP)             | 84-74-2                    | % | 0.005 | 0.1   | N.D.        | N.D.        |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7                   | % | 0.005 | 0.1   | N.D.        | N.D.        |
| Benzyl butyl phthalate, (BBP)        | 85-68-7                    | % | 0.005 | 0.1   | N.D.        | 0.011       |
| Di-isodecyl phthalate, (DIDP)        | 26761-40-0 ,<br>68515-49-1 | % | 0.005 | 0.1   | N.D.        | N.D.        |
| Di-n-hexyl phthalate (DNHP)          | 84-75-3                    | % | 0.005 | 0.1   | N.D.        | N.D.        |
| Di-isononyl phthalate, (DINP)        | 28553-12-0 ,<br>68515-48-0 | % | 0.005 | 0.1   | N.D.        | N.D.        |
| <b>Conclusion</b>                    |                            |   |       |       | <b>Pass</b> | <b>Pass</b> |

| Parameter                            | CAS No.                    | Unit | MDL   | Client's Limit | Result(s)   |             |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
|                                      |                            |      |       |                | 009         | 018         |
| Dibutyl phthalate, (DBP)             | 84-74-2                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7                   | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Benzyl butyl phthalate, (BBP)        | 85-68-7                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isodecyl phthalate, (DIDP)        | 26761-40-0 ,<br>68515-49-1 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-n-hexyl phthalate (DNHP)          | 84-75-3                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isononyl phthalate, (DINP)        | 28553-12-0 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| <b>Conclusion</b>                    |                            |      |       |                | <b>Pass</b> | <b>Pass</b> |

| Parameter                            | CAS No.                    | Unit | MDL   | Client's Limit | Result(s)   |             |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
|                                      |                            |      |       |                | 021         | 015+020     |
| Dibutyl phthalate, (DBP)             | 84-74-2                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7                   | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Benzyl butyl phthalate, (BBP)        | 85-68-7                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isodecyl phthalate, (DIDP)        | 26761-40-0 ,<br>68515-49-1 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-n-hexyl phthalate (DNHP)          | 84-75-3                    | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isononyl phthalate, (DINP)        | 28553-12-0 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| <b>Conclusion</b>                    |                            |      |       |                | <b>Pass</b> | <b>Pass</b> |

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| Parameter                            | CAS No.                    | Unit | MDL   | Client's Limit | Result(s)   |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|
|                                      |                            |      |       |                | 024         |
| Dibutyl phthalate, (DBP)             | 84-74-2                    | %    | 0.005 | 0.1            | N.D.        |
| Bis (2-ethylhexyl) phthalate, (DEHP) | 117-81-7                   | %    | 0.005 | 0.1            | N.D.        |
| Benzyl butyl phthalate, (BBP)        | 85-68-7                    | %    | 0.005 | 0.1            | N.D.        |
| Di-isodecyl phthalate, (DIDP)        | 26761-40-0 ,<br>68515-49-1 | %    | 0.005 | 0.1            | N.D.        |
| Di-n-hexyl phthalate (DNHP)          | 84-75-3                    | %    | 0.005 | 0.1            | N.D.        |
| Di-isononyl phthalate, (DINP)        | 28553-12-0 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.        |
| <b>Conclusion</b>                    |                            |      |       |                | <b>Pass</b> |

### 12. Canadian Products Containing Mercury Regulations SOR/2014-254 - Total Mercury Content Test

Test with reference to EN 62321-4:2014+A1:2017, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

| Sample      | Unit  | MDL | Limit | Result(s) | Conclusion |
|-------------|-------|-----|-------|-----------|------------|
| 001         | mg/kg | 10  | 1000  | N.D.      | Pass       |
| 002         | mg/kg | 10  | 1000  | N.D.      | Pass       |
| 003+004+008 | mg/kg | 10  | 1000  | N.D.      | Pass       |
| 005+022     | mg/kg | 10  | 1000  | N.D.      | Pass       |
| 007         | mg/kg | 10  | 1000  | N.D.      | Pass       |
| 009+018+021 | mg/kg | 10  | 1000  | N.D.      | Pass       |
| 010+011+012 | mg/kg | 10  | 1000  | N.D.      | Pass       |
| 013         | mg/kg | 10  | 1000  | N.D.      | Pass       |
| 014+016+017 | mg/kg | 10  | 1000  | N.D.      | Pass       |
| 015+020     | mg/kg | 10  | 1000  | N.D.      | Pass       |
| 019+023     | mg/kg | 10  | 1000  | N.D.      | Pass       |
| 024         | mg/kg | 10  | 1000  | N.D.      | Pass       |

### 13. Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

Test with reference to in- house method, determination by LC-MS/LC-MC-MS.

| Compound  | CAS No.    | Unit  | MDL   | Client's Limit | Result(s) |      |
|---|------------|-------|-------|----------------|-----------|------|
|   |            |       |       |                | 006       | 018  |
| Perfluorooctanesulphonic acid 1H,1H,2H,2H (H4PFOS; 6:2) | 27619-97-2 | mg/kg | 0.025 | <0.025         | N.D.      | N.D. |
| Perfluorooctanoic acid (PFOA)                           | 335-67-1   | mg/kg | 0.025 | <0.025         | N.D.      | N.D. |
| Ammonium Pentadecafluorooctanoate (APFO)*               | 3825-26-1  | mg/kg | 0.025 | <0.025         | N.D.      | N.D. |
| Sodium perfluorooctanoate(Na-PFO)*                      | 335-95-5   | mg/kg | 0.025 | <0.025         | N.D.      | N.D. |
| Potassium perfluorooctanoate(K-PFO)*                    | 2395-00-8  | mg/kg | 0.025 | <0.025         | N.D.      | N.D. |

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|   |             |       |       |        |             |             |
|---|-------------|-------|-------|--------|-------------|-------------|
| Silver perfluorooctanoate(Ag-PFO)*  | 335-93-3    | mg/kg | 0.025 | <0.025 | N.D.        | N.D.        |
| Perfluorooctanoyl fluoride(F-PFO)*  | 335-66-0    | mg/kg | 0.025 | <0.025 | N.D.        | N.D.        |
| Perfluorooctansulfonate (PFOS)  | 1763-23-1   | mg/kg | 0.025 | <0.025 | N.D.        | N.D.        |
| Perfluorooctane sulphonamide(PFOSA)   | 754-91-6    | mg/kg | 0.025 | <0.025 | N.D.        | N.D.        |
| perfluoro-1-octanesulfonyl fluoride (POSF/PFOSF)*   | 307-35-7    | mg/kg | 0.025 | <0.025 | N.D.        | N.D.        |
| Potassium perfluorooctanesulphonate(PFOS-K)*  | 2795-39-3   | mg/kg | 0.025 | <0.025 | N.D.        | N.D.        |
| Ammonium perfluorooctanesulphonate(PFOS-NH4)*   | 29081-56-9  | mg/kg | 0.025 | <0.025 | N.D.        | N.D.        |
| Didecyl(dimethyl)azanium;1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate(PFOS-DDA)* | 251099-16-8 | mg/kg | 0.025 | <0.025 | N.D.        | N.D.        |
| Perfluoro-1-octanesulfonic acid, diethanolamine salt(PFOS-NH(OH)2)*                                     | 70225-14-8  | mg/kg | 0.025 | <0.025 | N.D.        | N.D.        |
| Lithium perfluorooctylsulfonate(PFOS-Li)*   | 29457-72-5  | mg/kg | 0.025 | <0.025 | N.D.        | N.D.        |
| Heptadecafluorooctanesulfonic acid tetraethylammonium salt(PFOS-N(C2H5)4)*                              | 56773-42-3  | mg/kg | 0.025 | <0.025 | N.D.        | N.D.        |
| Methyl perfluorooctanoate (Me-PFOA)   | 376-27-2    | mg/kg | 0.5   | <0.5   | N.D.        | N.D.        |
| Ethyl perfluorooctanoate (Et-PFOA)  | 3108-24-5   | mg/kg | 0.5   | <0.5   | N.D.        | N.D.        |
| Sodium Perfluoro-1-octanesulfonate(PFOS-Na)*  | 4021-47-0   | mg/kg | 0.025 | <0.025 | N.D.        | N.D.        |
| <b>Conclusion</b>   |             |       |       |        | <b>Pass</b> | <b>Pass</b> |

| Compound  | CAS No.     | Unit  | MDL   | Client's Limit | Result(s)   |             |
|---|-------------|-------|-------|----------------|-------------|-------------|
|   |             |       |       |                | 025         | 032         |
| Perfluorooctanesulphonic acid 1H,1H,2H,2H (H4PFOS; 6:2)   | 27619-97-2  | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| Perfluorooctanoic acid (PFOA)   | 335-67-1    | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| Ammonium Pentadecafluorooctanoate (APFO)*   | 3825-26-1   | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| Sodium perfluorooctanoate(Na-PFO)*  | 335-95-5    | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| Potassium perfluorooctanoate(K-PFO)*  | 2395-00-8   | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| Silver perfluorooctanoate(Ag-PFO)*  | 335-93-3    | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| Perfluorooctanoyl fluoride(F-PFO)*  | 335-66-0    | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| Perfluorooctansulfonate (PFOS)  | 1763-23-1   | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| Perfluorooctane sulphonamide(PFOSA)   | 754-91-6    | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| perfluoro-1-octanesulfonyl fluoride (POSF/PFOSF)*   | 307-35-7    | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| Potassium perfluorooctanesulphonate(PFOS-K)*  | 2795-39-3   | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| Ammonium perfluorooctanesulphonate(PFOS-NH4)*   | 29081-56-9  | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| Didecyl(dimethyl)azanium;1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate(PFOS-DDA)* | 251099-16-8 | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| Perfluoro-1-octanesulfonic acid, diethanolamine salt(PFOS-NH(OH)2)*                                     | 70225-14-8  | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| Lithium perfluorooctylsulfonate(PFOS-Li)*   | 29457-72-5  | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| Heptadecafluorooctanesulfonic acid tetraethylammonium salt(PFOS-N(C2H5)4)*                              | 56773-42-3  | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| Methyl perfluorooctanoate (Me-PFOA)   | 376-27-2    | mg/kg | 0.5   | <0.5           | N.D.        | N.D.        |
| Ethyl perfluorooctanoate (Et-PFOA)  | 3108-24-5   | mg/kg | 0.5   | <0.5           | N.D.        | N.D.        |
| Sodium Perfluoro-1-octanesulfonate(PFOS-Na)*  | 4021-47-0   | mg/kg | 0.025 | <0.025         | N.D.        | N.D.        |
| <b>Conclusion</b>   |             |       |       |                | <b>Pass</b> | <b>Pass</b> |

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Note “\*” denotes the result of the substances are converted according to the corresponding compounds

-End of Test Report-



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