

## TEST REPORT

Test Report # 22W-005880 Date of Report Issue: May 10, 2022  
Date of Sample Received: April 27, 2022 Pages: Page 1 of 15

### CLIENT INFORMATION:

Company: Polyconcept GBS  
Recipient: Kathy lu  
Recipient Email: kathy.lu@polyconceptgbs.com



### SAMPLE INFORMATION:

Description: Lifestyle 7-in-1 Desktop Game Set  
Article No.: 1400-56WD Purchase Order Number: 1961425/1939055  
Factory No.: 2949 Toy Co./Agency: -  
Vendor No.: 10331 Country of Origin: China  
Country of Distribution: United States Labeled Age Grade: 8+  
Quantity Submitted: 6 sets Requested Age Grade: Over 8 years of age  
Testing Period: 04/28/2022-05/09/2022 Tested Age Grade: Over 8 years of age

### OVERALL RESULT:

**PASS**

Please refer to the following pages for test result summary and appropriate notes.

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*Jeremy Xu*

*Ada Guo*

Jeremy Xu  
Chemical Laboratory Supervisor

Ada Guo  
Assist Physical Laboratory Manager



### TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

| CONCLUSION | TEST(S) CONDUCTED   |
|------------|---|
| PASS       | CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Soluble Elements in Paints and Similar Surface Coatings   |
| PASS       | CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Soluble Elements in Substrate Materials   |
| PASS       | CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings  |
| PASS       | CPSIA Section 101, Total Lead in Substrate Materials  |
| PASS       | CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP) |
| PASS       | California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)  |
| PASS       | CPSIA Section 106, Mandatory Toy Safety Standard ASTM F963-17, Mechanical Hazards   |
| PASS       | ASTM F963-17 Labeling Review  |
| PASS       | 16 CFR 1500.44 and ASTM F963-17, Section 4.2, Flammability of Solids  |
| PASS       | CPSIA Section 103, Tracking Labels for Children's Products  |



**DETAILED RESULTS:**

**CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Soluble Elements in Paints and Similar Surface Coatings**

Test Method: ASTM F963-17 Clause 8.3.2  
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No.          | 14             | 21             | ---            | ---            | ---            | Soluble Limit (mg/kg) |
|-----------------------|----------------|----------------|----------------|----------------|----------------|-----------------------|
| Test Item             | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) |                       |
| Soluble Antimony (Sb) | ND             | ND             | ---            | ---            | ---            | 60                    |
| Soluble Arsenic (As)  | ND             | ND             | ---            | ---            | ---            | 25                    |
| Soluble Barium (Ba)   | ND             | ND             | ---            | ---            | ---            | 1000                  |
| Soluble Cadmium (Cd)  | ND             | ND             | ---            | ---            | ---            | 75                    |
| Soluble Chromium (Cr) | ND             | ND             | ---            | ---            | ---            | 60                    |
| Soluble Lead (Pb)     | ND             | ND             | ---            | ---            | ---            | 90                    |
| Soluble Mercury (Hg)  | ND             | ND             | ---            | ---            | ---            | 60                    |
| Soluble Selenium (Se) | ND             | ND             | ---            | ---            | ---            | 500                   |
| <b>Conclusion</b>     | PASS           | PASS           | ---            | ---            | ---            |                       |

**Note:**  
 mg/kg=Milligrams per kilogram  
 LT = Less than  
 ND = Not detected (Reporting Limit = 5 mg/kg)

**Remark:**  
 Specimen No. 3,4,16,22,23,25 were not tested due to specimen mass found on single sample less than 10 mg.



**DETAILED RESULTS:**

**CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Soluble Elements in Substrate Materials**

Test Method: ASTM F963-17 Clause 8.3.5

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Substrate Materials Other than Modeling Clay

| Specimen No.          | 1              | 2              | 5              | 6              | 7              | Soluble Limit (mg/kg) |
|-----------------------|----------------|----------------|----------------|----------------|----------------|-----------------------|
| Test Item             | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) |                       |
| Soluble Antimony (Sb) | ND             | ND             | ND             | ND             | ND             | <b>60</b>             |
| Soluble Arsenic (As)  | ND             | ND             | ND             | ND             | ND             | <b>25</b>             |
| Soluble Barium (Ba)   | ND             | 10             | ND             | ND             | ND             | <b>1000</b>           |
| Soluble Cadmium (Cd)  | ND             | ND             | ND             | ND             | ND             | <b>75</b>             |
| Soluble Chromium (Cr) | ND             | ND             | ND             | ND             | ND             | <b>60</b>             |
| Soluble Lead (Pb)     | ND             | ND             | ND             | ND             | ND             | <b>90</b>             |
| Soluble Mercury (Hg)  | ND             | ND             | ND             | ND             | ND             | <b>60</b>             |
| Soluble Selenium (Se) | ND             | ND             | ND             | ND             | ND             | <b>500</b>            |
| <b>Conclusion</b>     | PASS           | PASS           | PASS           | PASS           | PASS           |                       |

*Note:*

mg/kg =Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 5 mg/kg)



**DETAILED RESULTS:**

**CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Soluble Elements in Substrate Materials**

Test Method: ASTM F963-17 Clause 8.3.5

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Substrate Materials Other than Modeling Clay

| Specimen No.          | 12             | 13             | 15             | 17             | 18             | Soluble Limit (mg/kg) |
|-----------------------|----------------|----------------|----------------|----------------|----------------|-----------------------|
| Test Item             | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) |                       |
| Soluble Antimony (Sb) | ND             | ND             | ND             | ND             | ND             | 60                    |
| Soluble Arsenic (As)  | ND             | ND             | ND             | ND             | ND             | 25                    |
| Soluble Barium (Ba)   | ND             | ND             | ND             | ND             | ND             | 1000                  |
| Soluble Cadmium (Cd)  | ND             | ND             | ND             | ND             | ND             | 75                    |
| Soluble Chromium (Cr) | ND             | ND             | ND             | ND             | ND             | 60                    |
| Soluble Lead (Pb)     | ND             | ND             | ND             | ND             | ND             | 90                    |
| Soluble Mercury (Hg)  | ND             | ND             | ND             | ND             | ND             | 60                    |
| Soluble Selenium (Se) | ND             | ND             | ND             | ND             | ND             | 500                   |
| <b>Conclusion</b>     | PASS           | PASS           | PASS           | PASS           | PASS           |                       |

*Note:*

mg/kg =Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 5 mg/kg)



**DETAILED RESULTS:**

**CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Soluble Elements in Substrate Materials**

Test Method: ASTM F963-17 Clause 8.3.5

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Substrate Materials Other than Modeling Clay

| Specimen No.          | 19             | 20             | 26             | ---            | ---            | Soluble Limit (mg/kg) |
|-----------------------|----------------|----------------|----------------|----------------|----------------|-----------------------|
| Test Item             | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) |                       |
| Soluble Antimony (Sb) | ND             | ND             | ND             | ---            | ---            | 60                    |
| Soluble Arsenic (As)  | ND             | ND             | ND             | ---            | ---            | 25                    |
| Soluble Barium (Ba)   | ND             | 5              | ND             | ---            | ---            | 1000                  |
| Soluble Cadmium (Cd)  | ND             | ND             | ND             | ---            | ---            | 75                    |
| Soluble Chromium (Cr) | ND             | ND             | ND             | ---            | ---            | 60                    |
| Soluble Lead (Pb)     | ND             | ND             | ND             | ---            | ---            | 90                    |
| Soluble Mercury (Hg)  | ND             | ND             | ND             | ---            | ---            | 60                    |
| Soluble Selenium (Se) | ND             | ND             | ND             | ---            | ---            | 500                   |
| <b>Conclusion</b>     | PASS           | PASS           | PASS           | ---            | ---            |                       |

*Note:*

mg/kg =Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 5 mg/kg)



**DETAILED RESULTS:**

**CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings**

Test Method: CPSC-CH-E1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No.      | 3+4+14            | 16+21+22          | 23+25             | ---               | ---               | Limit<br>(mg/kg) |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| Test Item         | Result<br>(mg/kg) | Result<br>(mg/kg) | Result<br>(mg/kg) | Result<br>(mg/kg) | Result<br>(mg/kg) |                  |
| Total Lead (Pb)   | ND                | ND                | ND                | ---               | ---               | <b>90</b>        |
| <b>Conclusion</b> | PASS              | PASS              | PASS              | ---               | ---               |                  |

*Note:*

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



**DETAILED RESULTS:**

**CPSIA Section 101, Total Lead in Substrate Materials**

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

| Specimen No.      | 1+2+5          | 6+20           | 7+19+26        | 8              | 9              | Limit (mg/kg) |
|-------------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Test Item         | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) |               |
| Total Lead (Pb)   | ND             | ND             | ND             | 25             | ND             | <b>100</b>    |
| <b>Conclusion</b> | PASS           | PASS           | PASS           | PASS           | PASS           |               |

| Specimen No.      | 10             | 11             | 12+13+15       | 17+18          | ---            | Limit (mg/kg) |
|-------------------|----------------|----------------|----------------|----------------|----------------|---------------|
| Test Item         | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) |               |
| Total Lead (Pb)   | ND             | ND             | ND             | ND             | ---            | <b>100</b>    |
| <b>Conclusion</b> | PASS           | PASS           | PASS           | PASS           | ---            |               |

*Note:*

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.





**DETAILED RESULTS:**

**CPSC 16 CFR 1307 Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)**

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

| Specimen No.                        |                          | 1+2+5          | 3+4+14         | 6+20           | 7+19+26        | Limit (mg/kg) |
|-------------------------------------|--------------------------|----------------|----------------|----------------|----------------|---------------|
| Test Item                           | CAS No.                  | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) |               |
| Dibutyl phthalate (DBP)             | 84-74-2                  | ND             | ND             | ND             | ND             | 1000          |
| Benzyl butyl phthalate (BBP)        | 85-68-7                  | ND             | ND             | ND             | ND             | 1000          |
| Di-(2-ethylhexyl) phthalate (DEHP)  | 117-81-7                 | ND             | ND             | ND             | ND             | 1000          |
| Diisononyl phthalate (DINP)         | 28553-12-0<br>68515-48-0 | ND             | ND             | ND             | ND             | 1000          |
| Di-n-hexyl phthalate (DHEXP / DnHP) | 84-75-3                  | ND             | ND             | ND             | ND             | 1000          |
| Dicyclohexyl phthalate (DCHP)       | 84-61-7                  | ND             | ND             | ND             | ND             | 1000          |
| Diisobutyl phthalate (DIBP)         | 84-69-5                  | ND             | ND             | ND             | ND             | 1000          |
| Di-n-pentyl phthalate (DPENP)       | 131-18-0                 | ND             | ND             | ND             | ND             | 1000          |
| <b>Conclusion</b>                   |                          | PASS           | PASS           | PASS           | PASS           |               |

**Note:**

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



**DETAILED RESULTS:**

**CPSC 16 CFR 1307 Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)**

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

| Specimen No.                        |                          | 12+13+15       | 16+21+22       | 17+18          | 23+25          | Limit (mg/kg) |
|-------------------------------------|--------------------------|----------------|----------------|----------------|----------------|---------------|
| Test Item                           | CAS No.                  | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) |               |
| Dibutyl phthalate (DBP)             | 84-74-2                  | ND             | ND             | ND             | ND             | 1000          |
| Benzyl butyl phthalate (BBP)        | 85-68-7                  | ND             | ND             | ND             | ND             | 1000          |
| Di-(2-ethylhexyl) phthalate (DEHP)  | 117-81-7                 | ND             | ND             | ND             | ND             | 1000          |
| Diisononyl phthalate (DINP)         | 28553-12-0<br>68515-48-0 | ND             | ND             | ND             | ND             | 1000          |
| Di-n-hexyl phthalate (DHEXP / DnHP) | 84-75-3                  | ND             | ND             | ND             | ND             | 1000          |
| Dicyclohexyl phthalate (DCHP)       | 84-61-7                  | ND             | ND             | ND             | ND             | 1000          |
| Diisobutyl phthalate (DIBP)         | 84-69-5                  | ND             | ND             | ND             | ND             | 1000          |
| Di-n-pentyl phthalate (DPENP)       | 131-18-0                 | ND             | ND             | ND             | ND             | 1000          |
| <b>Conclusion</b>                   |                          | PASS           | PASS           | PASS           | PASS           |               |

**Note:**

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



**DETAILED RESULTS:**

**California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)**

Test Method: CPSC-CH-C1001-09.4  
 Analytical Method: Gas Chromatography with Mass Spectrometry

| Specimen No.                       |                          | 1+2+5          | 3+4+14         | 6+20           | 7+19+26        | Limit (mg/kg) |
|------------------------------------|--------------------------|----------------|----------------|----------------|----------------|---------------|
| Test Item                          | CAS No.                  | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) | Result (mg/kg) |               |
| Dibutyl phthalate (DBP)            | 84-74-2                  | ND             | ND             | ND             | ND             | 1000          |
| Benzyl butyl phthalate (BBP)       | 85-68-7                  | ND             | ND             | ND             | ND             | 1000          |
| Di-(2-ethylhexyl) phthalate (DEHP) | 117-81-7                 | ND             | ND             | ND             | ND             | 1000          |
| Diisononyl phthalate (DINP)        | 28553-12-0<br>68515-48-0 | ND             | ND             | ND             | ND             | 1000          |
| Diisodecyl phthalate (DIDP)        | 26761-40-0<br>68515-49-1 | ND             | ND             | ND             | ND             | 1000          |
| Di-n-hexyl phthalate (DnHP)        | 84-75-3                  | ND             | ND             | ND             | ND             | 1000          |
| <b>Conclusion</b>                  |                          | PASS           | PASS           | PASS           | PASS           |               |

**Note:**  
 mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)  
 LT = Less than  
 ND = Not detected (Reporting Limit = 150 mg/kg)  
 Composite results are based on specimen of least mass resulting in highest potential concentration.

**Remark:**  
 The specification is quoted from client's requirement.



**DETAILED RESULTS:**

**California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)**

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

| Specimen No.                       |                          | 12+13+15          | 16+21+22          | 17+18             | 23+25             | Limit<br>(mg/kg) |
|------------------------------------|--------------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| Test Item                          | CAS No.                  | Result<br>(mg/kg) | Result<br>(mg/kg) | Result<br>(mg/kg) | Result<br>(mg/kg) |                  |
| Dibutyl phthalate (DBP)            | 84-74-2                  | ND                | ND                | ND                | ND                | 1000             |
| Benzyl butyl phthalate (BBP)       | 85-68-7                  | ND                | ND                | ND                | ND                | 1000             |
| Di-(2-ethylhexyl) phthalate (DEHP) | 117-81-7                 | ND                | ND                | ND                | ND                | 1000             |
| Diisononyl phthalate (DINP)        | 28553-12-0<br>68515-48-0 | ND                | ND                | ND                | ND                | 1000             |
| Diisodecyl phthalate (DIDP)        | 26761-40-0<br>68515-49-1 | ND                | ND                | ND                | ND                | 1000             |
| Di-n-hexyl phthalate (DnHP)        | 84-75-3                  | ND                | ND                | ND                | ND                | 1000             |
| <b>Conclusion</b>                  |                          | PASS              | PASS              | PASS              | PASS              |                  |

**Note:**

mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

**Remark:**

The specification is quoted from client's requirement.



**DETAILED RESULTS:**

**CPSIA Section 106, Mandatory Toy Safety Standard ASTM F963-17, Mechanical Hazards**

Mechanical hazards evaluated as described in ASTM F963-17, as applicable.

| Section | Test                  | Conclusion |
|---------|-----------------------|------------|
| 4.1     | Material Quality      | PASS       |
| 4.11    | Nails and Fasteners   | PASS       |
| 4.12    | Plastic Film          | PASS       |
| 5.16    | Promotional Materials | PASS       |
| 7.1     | Producers Markings    | PASS       |

**16 CFR 1500.44 and ASTM F963-17, Section 4.2, Flammability of Solids**

| Test                   | Observation                            | Conclusion |
|------------------------|--|------------|
| Flammability of Solids | The burn rate is less than 0.1 in/sec. | PASS       |

**CPSIA Section 103, Tracking Labels for Children’s Products**

| Requirement  | Observation              | Conclusion |
|--|--------------------------|------------|
| Manufacturer or private labeler listed, location & date of manufacture, including batch, run number and/or other identifying characteristics | Information was present. | PASS       |



**SPECIMEN DESCRIPTION:**

| Specimen No. | Specimen Description          | Location                   |
|--------------|-------------------------------|----------------------------|
| 1            | Natural wood                  | Lid edge                   |
| 2            | Beige wood                    | Lid middle                 |
| 3            | Light brown ink               | Raw material (lid middle)  |
| 4            | Dark brown ink                | Raw material (lid middle)  |
| 5            | Natural wood                  | Main body of box           |
| 6            | Natural wood                  | Base of box                |
| 7            | Green/red textile with glue   | Box inside                 |
| 8            | Golden metal                  | Hinge                      |
| 9            | Golden metal                  | Screw                      |
| 10           | Golden metal                  | Part                       |
| 11           | Silvery metal                 | Part                       |
| 12           | Transparent plastic           | Part lid                   |
| 13           | Light yellow plastic          | Plastic chess              |
| 14           | Black ink                     | Raw material(checkers)     |
| 15           | Black plastic                 | Small dice                 |
| 16           | White ink                     | Raw material (small dice)  |
| 17           | Yellow plastic                | Small dice                 |
| 18           | Brown plastic                 | Shell                      |
| 19           | Dark brown felt with glue     | Shell inner                |
| 20           | Natural wood                  | Round chess                |
| 21           | Transparent lacquer           | Raw material (round chess) |
| 22           | Red ink                       | Raw material (big dice)    |
| 23           | Green ink                     | Raw material (big dice)    |
| 25           | Blue ink                      | Raw material (big dice)    |
| 26           | Brown/black textile with glue | Checkers                   |



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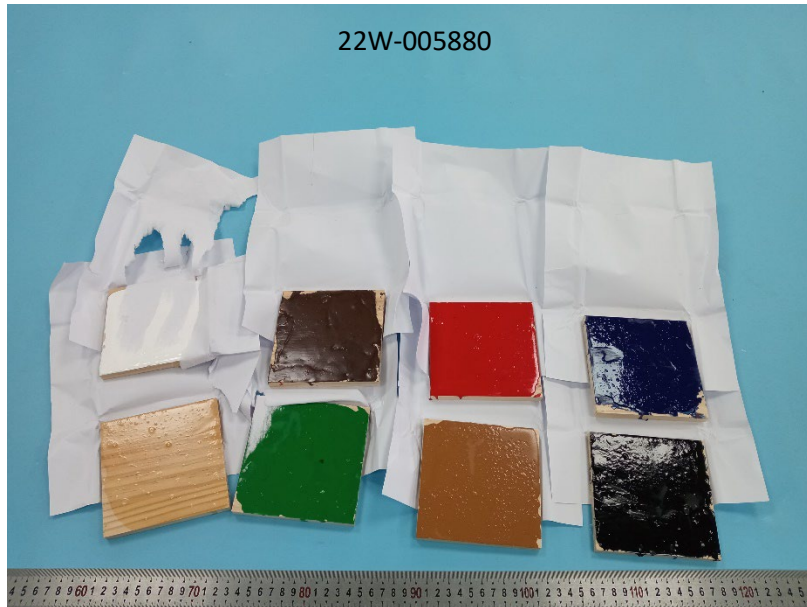
Test(s) marked with 'φ' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule.

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**SAMPLE PHOTO:**



-End Report-

