



TEST REPORT

Applicant : Orbbec Inc.
Product Name : Gemini 338Lg, Gemini 332Lg
Model Name : G40055-250, G45055-250
Brand Name : ORBBEC
Test Request : Test as requested by client.
Receipt Date : 2026-06-15
Test Date : 2026-06-15 to 2026-06-26
Issue Date : 2026-06-29
Result Summary :

Test Request	Conclusion
Five PBT Chemicals under the Toxic Substances Control Act (TSCA) section 6(h), as amended by the Frank R. Lautenberg Chemical Safety for the 21st Century Act.	PASS

Edited by:

Tao Qing (Rapporteur)

Approved by:

Kenny Li (Supervisor)

NOTE: This document is issued by Shenzhen Morlab Communications Technology Co., Ltd., the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.





1. Applicant Information

Applicant : Orbbec Inc.

Applicant Address : Orbbec Technology Building, No.88 High-tech North 1st Road, Nanshan District, Shenzhen, China

Manufacturer : Orbbec Inc.

Manufacturer Address : Orbbec Technology Building, No.88 High-tech North 1st Road, Nanshan District, Shenzhen, China



2. Test Part Description

Part No.	Sample No.	Sample Description	Sample Material
A	A-1	Black Plastic Cover	Polymer
A	A-2	Black Plastic Baffle	Polymer
A	A-3	Black Plastic Button	Polymer
A	A-4	Black Cushion	Polymer
A	A-5	Black Soft Rubberizing	Polymer
A	A-6	Black Stick Adhesive	Composite
A	A-7	Silver Grey Foam	Composite
A	A-8	Pink Heat Dissipating Silicone	Composite
A	A-9	Black FPC	Composite
A	A-10	Black Soft Plastic Pad	Polymer
A	A-11	Light Components	Composite
A	A-12	Black FPC	Composite
A	A-13	Interface Green Plastic	Polymer
A	A-14	Interface Red Soft Plastic Ring	Polymer
A	A-15	RF Cable Black Heat Shrinkable Casing	Polymer
A	A-16	RF Cable Black Plastic Wire Jacket	Polymer
A	A-17	RF Cable Transparent Plastic Tube	Polymer
A	A-18	Camera Black Plastic	Polymer
A	A-19	Camera Black Paper Gasket	Composite
A	A-20	Camera Transparent Plastic Sheet	Polymer
A	A-21	Camera Black FPC	Composite
A	A-22	Camera Black Plastic	Polymer
A	A-23	Camera Colour Plastic	Polymer
A	A-24	Camera Brown FPC	Composite
A	A-25	Flick Switch Creamy White Plastic	Polymer
A	A-26	Flick Switch Black Plastic	Polymer
A	A-27	Flat Cable Interface Creamy White Plastic	Polymer
A	A-28	Type-C Interface Black Plastic	Polymer
A	A-29	Blue PCB	Composite
B	B-1	Green Plastic	Polymer
B	B-2	Plug White Plastic Buckle	Polymer
B	B-3	Plug Orange Soft Plastic Ring	Polymer
B	B-4	Plug Black Plastic	Polymer
B	B-5	Black Plastic Wire Jacket	Polymer
B	B-6	Silvery Paper	Composite
B	B-7	White Plastic Sleeve	Polymer



Part No.	Sample No.	Sample Description	Sample Material
C	C-1	Black Plastic Knob	Polymer
C	C-2	Black Soft Plastic Cover	Polymer
C	C-3	Black Plastic Sheet	Polymer
C	C-4	Black Soft Rubberizing	Composite
C	C-5	Black Plastic Cover	Polymer
C	C-6	Black Plastic Holder	Polymer
C	C-7	Black Plastic Stents	Polymer
C	C-8	Black Soft Plastic Mat	Polymer

3. Test Results

Test Method: With reference to EPA 3550C:2007 & EPA 8270E:2018. Analysis was performed by GC-MS.

Test Items	CAS No.	MDL (%(w/w))	Limit (%(w/w))	Test Result(s) (%(w/w))				
				A-1	A-2	A-3	A-4	A-5
Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.005	0.10	ND	ND	ND	ND	ND
Phenol, isopropylated phosphate (3:1) (PIP (3:1))	68937-41-7	0.005	0.10	ND	ND	ND	ND	ND
Hexachlorobutadiene (HCBD)	87-68-3	0.005	Not Detectable	ND	ND	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	0.005	1.00	ND	ND	ND	ND	ND
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	0.005	0.30	ND	ND	ND	ND	ND

Test Items	CAS No.	MDL (%(w/w))	Limit (%(w/w))	Test Result(s) (%(w/w))				
				A-6	A-7	A-8	A-9	A-10
Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.005	0.10	ND	ND	ND	ND	ND
Phenol, isopropylated phosphate (3:1) (PIP (3:1))	68937-41-7	0.005	0.10	ND	ND	ND	ND	ND
Hexachlorobutadiene (HCBD)	87-68-3	0.005	Not Detectable	ND	ND	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	0.005	1.00	ND	ND	ND	ND	ND
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	0.005	0.30	ND	ND	ND	ND	ND



Test Items	CAS No.	MDL (%(w/w))	Limit (%(w/w))	Test Result(s) (%(w/w))				
				A-11	A-12	A-13	A-14	A-15
Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.005	0.10	ND	ND	ND	ND	ND
Phenol, isopropylated phosphate (3:1) (PIP (3:1))	68937-41-7	0.005	0.10	ND	ND	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	0.005	Not Detectable	ND	ND	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	0.005	1.00	ND	ND	ND	ND	ND
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	0.005	0.30	ND	ND	ND	ND	ND

Test Items	CAS No.	MDL (%(w/w))	Limit (%(w/w))	Test Result(s) (%(w/w))				
				A-16	A-17	A-18	A-19	A-20
Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.005	0.10	ND	ND	ND	ND	ND
Phenol, isopropylated phosphate (3:1) (PIP (3:1))	68937-41-7	0.005	0.10	ND	ND	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	0.005	Not Detectable	ND	ND	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	0.005	1.00	ND	ND	ND	ND	ND
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	0.005	0.30	ND	ND	ND	ND	ND

Test Items	CAS No.	MDL (%(w/w))	Limit (%(w/w))	Test Result(s) (%(w/w))				
				A-21	A-22	A-23	A-24	A-25
Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.005	0.10	ND	ND	ND	ND	ND
Phenol, isopropylated phosphate (3:1) (PIP (3:1))	68937-41-7	0.005	0.10	ND	ND	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	0.005	Not Detectable	ND	ND	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	0.005	1.00	ND	ND	ND	ND	ND
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	0.005	0.30	ND	ND	ND	ND	ND



Test Items	CAS No.	MDL (%(w/w))	Limit (%(w/w))	Test Result(s) (%(w/w))				
				A-26	A-27	A-28	A-29	---
Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.005	0.10	ND	ND	ND	ND	---
Phenol, isopropylated phosphate (3:1) (PIP (3:1))	68937-41-7	0.005	0.10	ND	ND	ND	ND	---
Hexachlorobutadiene (HCBd)	87-68-3	0.005	Not Detectable	ND	ND	ND	ND	---
Pentachlorothiophenol (PCTP)	133-49-3	0.005	1.00	ND	ND	ND	ND	---
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	0.005	0.30	ND	ND	ND	ND	---

Test Items	CAS No.	MDL (%(w/w))	Limit (%(w/w))	Test Result(s) (%(w/w))				
				B-1	B-2	B-3	B-4	B-5
Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.005	0.10	ND	ND	ND	ND	ND
Phenol, isopropylated phosphate (3:1) (PIP (3:1))	68937-41-7	0.005	0.10	ND	ND	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	0.005	Not Detectable	ND	ND	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	0.005	1.00	ND	ND	ND	ND	ND
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	0.005	0.30	ND	ND	ND	ND	ND

Test Items	CAS No.	MDL (%(w/w))	Limit (%(w/w))	Test Result(s) (%(w/w))				
				B-6	B-7	C-1	C-2	C-3
Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.005	0.10	ND	ND	ND	ND	ND
Phenol, isopropylated phosphate (3:1) (PIP (3:1))	68937-41-7	0.005	0.10	ND	ND	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	0.005	Not Detectable	ND	ND	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	0.005	1.00	ND	ND	ND	ND	ND
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	0.005	0.30	ND	ND	ND	ND	ND

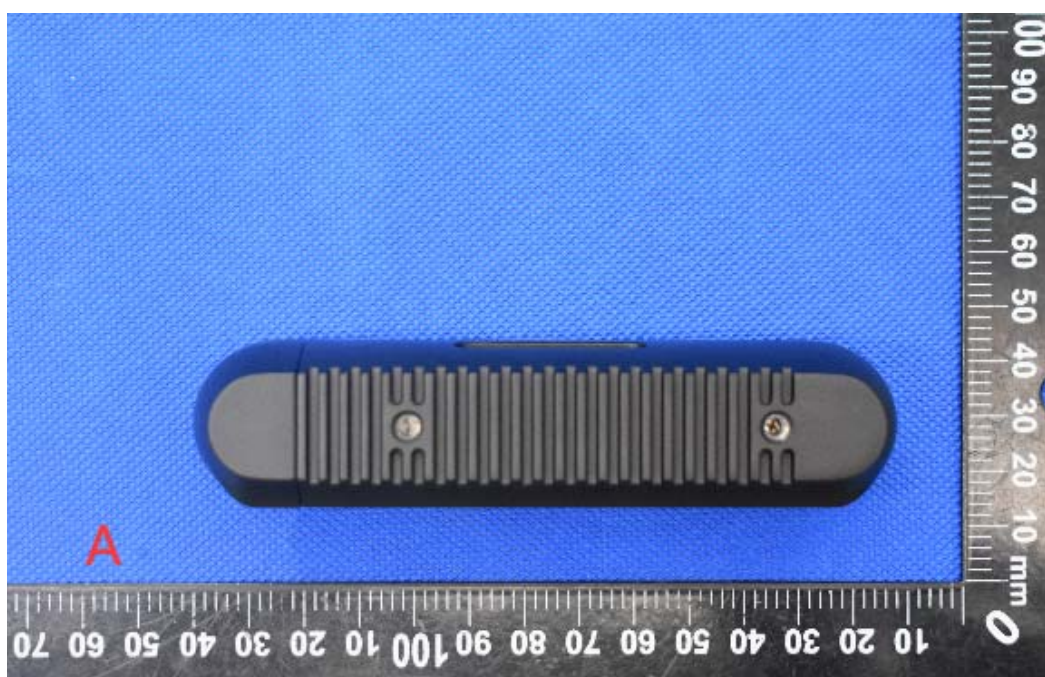


Test Items	CAS No.	MDL (%(w/w))	Limit (%(w/w))	Test Result(s) (%(w/w))				
				C-4	C-5	C-6	C-7	C-8
Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.005	0.10	ND	ND	ND	ND	ND
Phenol, isopropylated phosphate (3:1) (PIP (3:1))	68937-41-7	0.005	0.10	ND	ND	ND	ND	ND
Hexachlorobutadiene (HCBd)	87-68-3	0.005	Not Detectable	ND	ND	ND	ND	ND
Pentachlorothiophenol (PCTP)	133-49-3	0.005	1.00	ND	ND	ND	ND	ND
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	0.005	0.30	ND	ND	ND	ND	ND

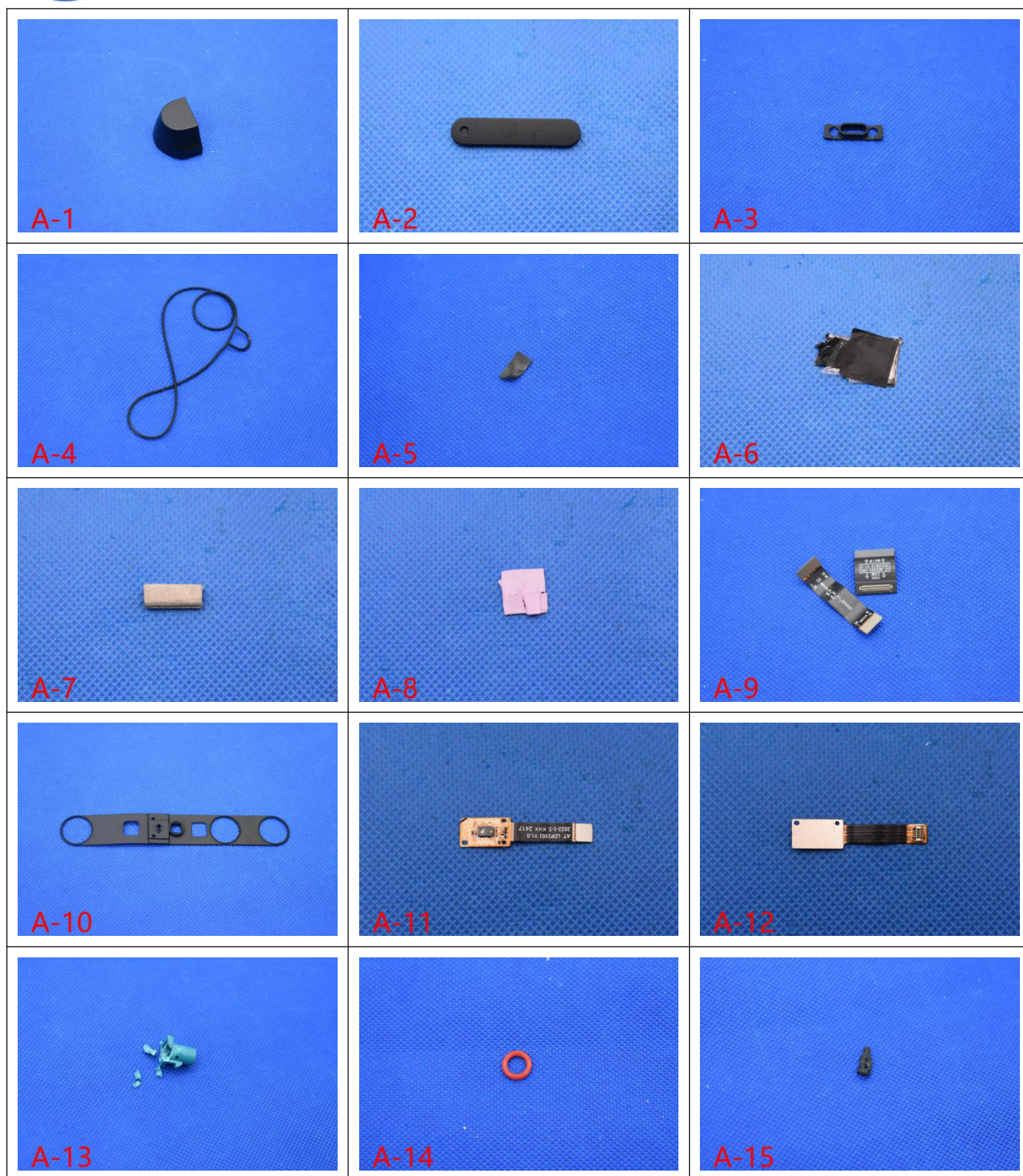
Remark:

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

4. Photo of Sample













Annex A General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

1.3 Test Equipment Utilized

No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Gas Chromatography-Mass Spectrometer (GC-MS)	C70504400059 SA	QP2010 PLus	SHIMADZU	2025.01.06	2027.01.05
2	Gas Chromatography-Mass Spectrometer (GC-MS)	021745700818 SA	QP2020 NX	SHIMADZU	2025.09.03	2027.09.02

1.4 Change History

Change History		
Version	Date	Reason for change
1.0	2026-06-29	First edition

Note: the latest revision of the report supersedes all previous version.



Notes

1. The report shall have report stamp or our company stamp.
2. The report shall be invalid without all the signatures of the editor and approver.
3. The report shall not be changed.
4. Any objections must be raised to Morlab within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.
5. Conformity declaration:
 - ☒ Morlab issues a statement of conformity based on the corresponding standards (default)
 - ☐ Morlab issues a statement of conformity based on the applicant requirement
6. Use of uncertainty of measurement for decisions on conformity (decision rule):

No decision rule is specified by the testing standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule).

***** END OF REPORT *****