



TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 1 of 25

Applicant : Topway EM Enterprise Ltd.
Address : 8F., Block B, Building 6, Baoneng Science and technology park, Qingxiang RD., Qinghu Industrial Park, Longhua New District, Shenzhen, GD, China 518109

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name(s) : Kids Wireless Headphones
Trade Mark : N/A
Part No. : GKIDBTB18, GKIDBTP18, 17LY79
Sample Received Date : November 11, 2021
Testing Period : November 11, 2021 ~ November 25, 2021
Test Method/Test Result(s) : Please refer to the following page(s).

TEST REQUEST	CONCLUSION
REACH Regulation (EC) No 1907/2006 as amended, Article 33(1) & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended on the obligation to provide information of safe use (see REACH requirement in report for details).	Pass
EU REACH Regulation (EC) No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH and WFD requirement in report for details)	Pass

According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, the specified scope and analytical technique in this report, two hundred and nineteen (219) Substances of Very High Concern (SVHC) concentrations were less than 0.1% (w/w) in the articles of the submitted sample.

Signed for and on behalf of LCS

Young/Laboratory Manager



TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 2 of 25

Sample Description

Sample No.	Sample Description
1	Pink plastic case
2	White foam with red coating
3	Silver metal screws
4	Black foam with viscose
5	Red cotton thread
6	White foam with pink coating
7	White mesh cloth with purple coating
8	White foam
9	Black silver-plated metal screws
10	Black plastic sheet
11	Black non-woven fabric with viscose
12	Solder
13	Silver metal shell
14	Green PCB board
15	White viscose
16	Black magnet
17	Silver metal sheet
18	White translucent plastic film
19	Copper-colored metal wire
20	White plastic shell with red coating
21	Red plastic case
22	Black foam with viscose
23	White plastic thread
24	Golden metal wire
25	Gold/Blue Metal Wire
26	Gold/red metal wire
27	Blue/green metal wire
28	Red/blue metal wire
29	White nylon
30	Yellow translucent plastic tape
31	Black printed silver battery body
32	Yellow plastic thread
33	Red plastic thread
34	Silver metal core



TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 3 of 25

Sample No.	Sample Description
35	Black plastic thread
36	Black soft plastic sleeve
37	Black body (IC)
38	Green PCB board
39	Silver metal pins
40	Solder
41	Silver metal sheet
42	Black plastic thread (outer)
43	Blue PCB board
44	Solder
45	Black soft plastic sleeve
46	Black plastic thread
47	Red plastic thread
48	Golden metal body
49	Black plastic port shell
50	Silver metal pins
51	Silver metal pins
52	Black plastic sheet
53	Silver metal port shell
54	Black body (IC)
55	Black body (L1)
56	Black body (transistor/Q3)
57	Silver crystal
58	Beige plastic shell (touch switch)
59	Silver metal pins (touch switch)
60	Silver metal shell (touch switch)
61	Black plastic button (touch switch)
62	Blue PCB board
63	Solder
64	White foam with blue coating
65	Light green plastic shell
66	Blue plastic case
67	White plastic shell with blue coating
68	White foam with light green coating
69	White mesh with blue coating
70	Pink plastic thread skin (outside)



TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 4 of 25

Sample No.	Sample Description
71	Pink soft plastic port shell
72	Silver metal casing
73	Silver metal casing
74	Silver metal pin
75	Silver metal pins
76	Black plastic shell
77	Gray plastic case
78	White plastic buttons
79	Ferrous metal spring
80	Light green soft plastic port shell
81	Light green plastic thread skin
82	Black plastic thread (outer)
83	Black soft plastic port shell
84	Silver metal port shell
85	Gold/silver metal pin
86	White plastic sheet
87	Solder
88	Red plastic thread
89	Copper color metal core
90	Black plastic thread
91	Black soft plastic port shell
92	Silver metal port shell
93	Silver metal pin
94	Black plastic fixture
95	Silver metal pins
96	Black plastic shell



TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 5 of 25

Test No.	Sample Description
A1	3、9、12、13、16、17、19、24、25、26、27、28、34、39、40、41、44、48、50、51
A2	53、57、59、60、63、72、73、74、75、79、84、85、87、89、92、93、95

Test No.	Sample Description
B1	1、2、4、5、6、7、8、10、11、14、15、18、20、21、22、23、29、30、31、32
B2	33、35、36、37、38、42、43、45、46、47、49、52、54、55、56、58、61、62、64、65
B3	66、67、68、69、70、71、76、77、78、80、81、82、83、86、88、90、91、94、96

Test Result(s)

Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)		Report Limit (%)
					A1#	A2#	
-	-	All tested SVHC (See the candidate list)	-	-	N.D.	N.D.	-

Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)		Report Limit (%)
					B1#	B2#	
-	-	All tested SVHC (See the candidate list)	-	-	N.D.	N.D.	-

Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit (%)
					B3#	
-	-	All tested SVHC (See the candidate list)	-	-	N.D.	-

Test Method:

Refer to US EPA 3052:1996, US EPA 3050B:1996, US EPA 3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), EN 14582:2016 for sample pretreatment.

Analyzed by ICP-OES, UV-Vis, IC, HPLC, GC-MS, GC-FID and LC-MS-MS.



TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 6 of 25

Sample/Part Description

Sample No.	Sample/Part Description	Number of SVHC
A1	See Tested Group Information	72
A2	See Tested Group Information	72
B1	See Tested Group Information	219
B2	See Tested Group Information	219
B3	See Tested Group Information	219

Note:

1. The table of tested result(s) only shows detected SVHC, and SVHC that below Report Limit are not reported. Please refer to the Candidate List of SVHC on next pages.
2. w/w %=weight by weight; 0.1%=1000mg/kg=1000ppm
3. N.D.=Not Detected (<Report Limit)
4. *: Concentration value of the substance by the conversion from the test results of certain elements.
Concentration value of Bis(tributyltin)oxide(TBTO), Dibutyltin dichloride(DBTC), 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate(DOTE), Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate(reaction mass of DOTE and MOTE), Dibutylbis(pentane-2,4-dionato-O,O')tin by the conversion from the test results of certain compounds(Tributyl Tins(TBT), Dibutyl Tins(DBT), Dioctyl Tins(DOT), Monoctyl Tins(MOT)).
5. **: All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex IV of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation (EC) No 1272/2008).
6. ***: C.I.: Colour Index
7. ****: Light fractions from distillation
8. *****: Concentration value of Disodium tetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodium tetraborate, with no consider of the hydrate. Concentration value of Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is evaluated by Sodium perborate, with no consider of the hydrate.
9. ▲: Concentration value of Formaldehyde, oligomeric reaction products with aniline (technical MDA) by the conversion from the test results of certain compounds (2,4-Diaminodiphenylmethane, 4,4'-Diaminodiphenylmethane, 2,2-Diaminodiphenylmethane).
10. ①: In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances. When the content of the representative substances is equal to or higher than 0.1% (w/w), the presence of the substance in the sample need to be further confirmed by checking SDS or requesting from suppliers.



TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 7 of 25

11. ^② : In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.
12. [#] : As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.
13. ^{*} : Indicates the tested items of 72 SVHC.
14. The LCS210831080AR001 report replaces the original LCS210831080AR report, and the original report is invalid.

Remark:

The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

Candidate List of SVHC

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
I	1	Anthracene	120-12-7	204-371-1	0.005
I	2	4,4'-Diaminodiphenylmethane	101-77-9	202-974-4	0.005
I	3	Dibutyl phthalate(DBP)	84-74-2	201-557-4	0.005
I	4 [*]	Cobalt dichloride*	7646-79-9	231-589-4	0.01
I	5 [*]	Diarsenic pentaoxide*	1303-28-2	215-116-9	0.01
I	6 [*]	Diarsenic trioxide *	1327-53-3	215-481-4	0.01
I	7 [*]	Sodium dichromate *	7789-12-0 10588-01-9	234-190-3	0.01
I	8	Musk xylene	81-15-2	201-329-4	0.005
I	9	Bis(2-ethyl(hexyl) phthalate) (DEHP)	117-81-7	204-211-0	0.005
I	10	Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	247-148-4 221-695-9	0.005
I	11	Short Chain Chlorinated Paraffins (SCCPs)	85535-84-8	287-476-5	0.01
I	12	Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	0.005
I	13 [*]	Lead hydrogen arsenate*	7784-40-9	232-064-2	0.01
I	14	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	0.005
I	15 [*]	Triethyl arsenate*	15606-95-8	427-700-2	0.01
II	16	^① Anthracene oil	90640-80-5	292-602-7	0.05
II	17	^① Anthracene oil, anthracene paste, distn. Lights*****	91995-17-4	295-278-5	0.05
II	18	^① Anthracene oil, anthracene paste,	91995-15-2	295-275-9	0.05





TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 8 of 25

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
		anthracene fraction			
II	19	^① Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.05
II	20	^① Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.05
II	21	^① Coal tar pitch, high temperature	65996-93-2	266-028-2	0.05
II	22	Acrylamide	79-06-1	201-173-7	0.01
II	23	2,4-Dinitrotoluene	121-14-2	204-450-0	0.01
II	24	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005
II	25*	^② Lead chromate	7758-97-6	231-846-0	0.05
II	26*	^② Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	0.05
II	27*	^② Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	0.05
II	28	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	0.01
III	29	Trichloroethylene	79-01-6	201-167-4	0.005
III	30*	Boric acid*	10043-35-3 11113-50-1	233-139-2 234-343-4	0.01
III	31*	^② Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	215-540-4	0.01
III	32*	^② Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	235-541-3	0.01
III	33*	Sodium chromate*	7775-11-3	231-889-5	0.01
III	34*	Potassium chromate*	7789-00-6	232-140-5	0.01
III	35*	Ammonium dichromate *	7789-09-5	232-143-1	0.01
III	36*	Potassium dichromate *	7778-50-9	231-906-6	0.01
IV	37*	Cobalt(II) sulphate*	10124-43-3	233-334-2	0.01
IV	38*	Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.01
IV	39*	Cobalt(II) carbonate*	513-79-1	208-169-4	0.01
IV	40*	Cobalt(II) diacetate*	71-48-7	200-755-8	0.01
IV	41	2-Methoxyethanol	109-86-4	203-713-7	0.005
IV	42	2-Ethoxyethanol	110-80-5	203-804-1	0.005
IV	43*	Chromium trioxide*	1333-82-0	215-607-8	0.01



TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 9 of 25

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
IV	44*	^① Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	231-801-5 236-881-5	0.01
V	45	2-ethoxyethyl acetate	111-15-9	203-839-2	0.01
V	46*	Strontium chromate *	7789-06-2	232-142-6	0.01
V	47	^① 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	0.01
V	48	Hydrazine	7803-57-8 302-01-2	206-114-9	0.01
V	49	1-methyl-2-pyrrolidone	872-50-4	212-828-1	0.01
V	50	1,2,3-trichloropropane	96-18-4	202-486-1	0.01
V	51	^① 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	0.01
VI	52*	^② Aluminosilicate Refractory Ceramic Fibres (RCF)**	—	—	0.05
VI	53*	^② Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**	—	—	0.05
VI	54*	Dichromium tris(chromate) *	24613-89-6	246-356-2	0.01
VI	55*	Potassium hydroxyoctaoxodizincate dichromate*	11103-86-9	234-329-8	0.01
VI	56	^① Formaldehyde, oligomeric reaction products with aniline (technical MDA) [▲]	25214-70-4	500-036-1	0.01
VI	57*	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	0.01
VI	58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.005
VI	59	2-Methoxyaniline (o-Anisidine)	90-04-0	201-963-1	0.005
VI	60	4-(1,1,3,3-tetramethylbutyl) phenol (4-tert-Octylphenol)	140-66-9	205-426-2	0.005
VI	61	1,2-Dichloroethane	107-06-2	203-458-1	0.005
VI	62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.005
VI	63*	Arsenic acid *	7778-39-4	231-901-9	0.01
VI	64*	Calcium arsenate *	7778-44-1	231-904-5	0.01



TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 10 of 25

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
VI	65*	Trilead diarsenate *	3687-31-8	222-979-5	0.01
VI	66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.005
VI	67	Phenolphthalein	77-09-8	201-004-7	0.005
VI	68	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.005
VI	69*	Lead diazide *	13424-46-9	236-542-1	0.01
VI	70*	Lead 2,4,6-trinitro-m-phenylene dioxide (Lead styphnate)*	15245-44-0	239-290-0	0.01
VI	71*	Lead dipicrate*	6477-64-1	229-335-2	0.01
VII	72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.01
VII	73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.01
VII	74*	Diboron trioxide*	1303-86-2	215-125-8	0.01
VII	75	Formamide	75-12-7	200-842-0	0.01
VII	76*	Lead(II) bis methanesulfonate *	17570-76-2	401-750-5	0.01
VII	77	TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	219-514-3	0.01
VII	78	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0	0.01
VII	79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	0.01
VII	80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.01
VII	81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)***	548-62-9	208-953-6	0.01
VII	82	[4-[[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) ***	2580-56-5	219-943-6	0.01
VII	83	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) ***	6786-83-0	229-851-8	0.01
VII	84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.01
VIII	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	0.05
VIII	86	Pentacosfluorotridecanoic acid	72629-94-8	276-745-2	0.05



TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 11 of 25

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
VIII	87	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.05
VIII	88	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.05
VIII	89	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.05
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	—	—	0.05
VIII	91	^① 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	—	—	0.05
VIII	92	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.05
VIII	93	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7 13149-00-3 14166-21-3	201-604-9 236-086-3 238-009-9	0.05
VIII	94	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalicanhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9	247-094-1 243-072-0 256-356-4 260-566-1	0.05
VIII	95	Methoxyacetic acid	625-45-6	210-894-6	0.05
VIII	96	^① 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.05
VIII	97	Diisopentylphthalate (DIPP)	605-50-5	210-088-4	0.05
VIII	98	N-pentyl-isopentylphthalate	776297-69-9	—	0.05
VIII	99	1,2-Diethoxyethane	629-14-1	211-076-1	0.05
VIII	100	N,N-dimethylformamide	68-12-2	200-679-5	0.05
VIII	101	Dibutyltin dichloride (DBTC)*	683-18-1	211-670-0	0.05
VIII	102*	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.01
VIII	103*	Trilead bis(carbonate) dihydroxide*	1319-46-6	215-290-6	0.01
VIII	104*	Lead oxide sulfate*	12036-76-9	234-853-7	0.01
VIII	105*	[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	0.01
VIII	106*	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.01



TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 12 of 25

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
VIII	107 [★]	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.01
VIII	108 [★]	Lead bis(tetrafluoroborate) *	13814-96-5	237-486-0	0.01
VIII	109 [★]	Lead cyanamidate*	20837-86-9	244-073-9	0.01
VIII	110 [★]	Lead dinitrate*	10099-74-8	233-245-9	0.01
VIII	111 [★]	Lead monoxide (lead oxide) *	1317-36-8	215-267-0	0.01
VIII	112 [★]	Orange lead (lead tetroxide)*	1314-41-6	215-235-6	0.01
VIII	113 [★]	Lead titanium trioxide*	12060-00-3	235-038-9	0.01
VIII	114 [★]	Lead titanium zirconium oxide*	12626-81-2	235-727-4	0.01
VIII	115 [★]	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	0.01
VIII	116 [★]	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	0.01
VIII	117 [★]	Silicic acid(H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped*	68784-75-8	272-271-5	0.01
VIII	118 [★]	Silicic acid, lead salt*	11120-22-2	234-363-3	0.01
VIII	119 [★]	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.01
VIII	120 [★]	Tetraethyllead*	78-00-2	201-075-4	0.01
VIII	121 [★]	Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.01
VIII	122 [★]	Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.01
VIII	123	Furan	110-00-9	203-727-3	0.05
VIII	124	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	0.05
VIII	125	Diethyl sulphate	64-67-5	200-589-6	0.05
VIII	126	Dimethyl sulphate	77-78-1	201-058-1	0.05
VIII	127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.05
VIII	128	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	0.05
VIII	129	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.05
VIII	130	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.05
VIII	131	4-aminoazobenzene	60-09-3	200-453-6	0.05
VIII	132	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	0.05
VIII	133	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.05
VIII	134	Biphenyl-4-ylamine	92-67-1	202-177-1	0.05
VIII	135	o-aminoazotoluene	97-56-3	202-591-2	0.05
VIII	136	o-Toluidine	95-53-4	202-429-0	0.05



TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 13 of 25

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
VIII	137	N-methylacetamide	79-16-3	201-182-6	0.05
VIII	138	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	0.05
IX	139	^① 4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	—	—	0.05
IX	140*	Cadmium	7440-43-9	231-152-8	0.01
IX	141*	Cadmium oxide*	1306-19-0	215-146-2	0.01
IX	142	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	0.01
IX	143	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.01
IX	144	Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.01
X	145*	Cadmium sulphide *	1306-23-6	215-147-8	0.01
X	146	Dihexyl phthalate	84-75-3	201-559-5	0.01
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)***	573-58-0	209-358-4	0.01
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)***	1937-37-7	217-710-3	0.01
X	149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	202-506-9	0.01
X	150*	Lead di(acetate)*	301-04-2	206-104-4	0.01
X	151	^① Trixylyl phosphate	25155-23-1	246-677-8	0.01
XI	152	^① 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	0.01
XI	153*	Cadmium chloride *	10108-64-2	233-296-7	0.01
XI	154*	^② Sodium perborate; perboric acid, sodium salt *****	15120-21-5 11138-47-9	239-172-9 234-390-0	0.01
XI	155*	^② Sodium peroxometaborate*****	7632-04-4	231-556-4	0.01
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)	25973-55-1	247-384-8	0.01





TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 14 of 25

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XII	157	2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	0.01
XII	158	^① Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)*	—	—	0.05
XIII	159	^① 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	271-094-0 272-013-1	0.05
XIII	160	^① 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	—	—	0.05
XII	161*	Cadmium fluoride*	7790-79-6	232-222-0	0.01
XII	162*	Cadmium sulphate*	10124-36-4 31119-53-6	233-331-6	0.01
XII	163	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)*	15571-58-1	239-622-4	0.05
XIV	164	Nitrobenzene	98-95-3	202-716-0	0.01
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.01
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.01
XIV	167	1,3-propanesultone	1120-71-4	214-317-9	0.01
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	0.01
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.01
XVI	170	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	221-470-5 206-400-3 -	0.01



TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 15 of 25

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XVI	171	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	0.01
XVI	172	^① 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	—	—	0.05
XVI	173	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	201-245-8	0.01
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	—	—	0.05
XVIII	175	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	—	—	0.01
XVIII	176	Benzo[a]anthracene	56-55-3, 1718-53-2	200-280-6	0.01
XVIII	177	^① Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)]	—	—	0.05
XVIII	178*	Cadmium nitrate*	10325-94-7 10022-68-1	233-710-6	0.01
XVIII	179*	Cadmium carbonate*	513-78-0	208-168-9	0.01
XVIII	180*	Cadmium hydroxide*	21041-95-2	244-168-5	0.01
XVIII	181	Chrysene	218-01-9, 1719-03-5	205-923-4	0.01
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	209-008-0	0.01
XIX	183	Benzo[g,h,i]perylene	191-24-2	205-883-8	0.01
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.01
XIX	185	Dicyclohexylphthalate (DCHP)	84-61-7	201-545-9	0.01
XIX	186*	Disodium octaborate*	12008-41-2	234-541-0	0.01
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.01



TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 16 of 25

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XIX	188	Ethylenediamine (EDA)	107-15-3	203-468-6	0.01
XIX	189 [★]	Lead	7439-92-1	231-100-4	0.01
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.01
XIX	191	^① Terphenyl, hydrogenated	61788-32-7	262-967-7	0.01
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2,2,1]heptan-2-one	15087-24-8	239-139-9	0.01
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	0.01
XX	194	Benzo[k]fluoranthene	207-08-9	205-916-6	0.01
XX	195	Fluoranthene	206-44-0	205-912-4	0.01
XX	196	Phenanthrene	85-01-8	201-581-5	0.01
XX	197	Pyrene	129-00-0	204-927-3	0.01
XXI	198	4-tert-butylphenol	98-54-4	202-679-0	0.01
XXI	199	2-methoxyethyl acetate	110-49-6	203-772-9	0.01
XXI	200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	—	—	0.01
XXI	201	^① Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	—	—	0.01
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	0.01
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	0.01
XXII	204	Diisohexyl phthalate	71850-09-04	276-090-2	0.01
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	—	—	0.01
XXIII	206	1-vinylimidazole	1072-63-5	214-012-0	0.01
XXIII	207	2-methylimidazole	693-98-1	211-765-7	0.01
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	202-318-7	0.01
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin*	22673-19-4	245-152-0	0.05
XXIV	210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	205-594-7	0.01



TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 17 of 25

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XXIV	211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety*	—	—	0.01
XXV	212	1,4-dioxane	123-91-1	204-661-8	0.01
XXV	213	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	—	—	0.01
XXV	214	4,4'-(1-methylpropylidene)bisphenol	77-40-7	201-025-1	0.01
XXV	215	2,2-Bis(bromomethyl)propane-1,3-diol(BMP); 2,2-dimethylpropan-1-ol, tribromo derivative; 3-bromo-2,2-bis(bromomethyl)-1-propano 1 (TBNPA); 2,3-dibromo-1-propanol(2,3-DBPA)	3296-90-0 36483-57-5/ 1522-92-5 96-13-9	221-967-7 253-057-0 202-480-9	0.01
XXV	216	Glutaral	111-30-8	203-856-5	0.01
XXV	217	Middle Chain Chlorinated Paraffins (MCCPs)(UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C ₁₄ to C ₁₇)	—	—	0.01
XXV	218*	Orthoboric acid, sodium salt*	13840-56-7	237-560-2	0.05
XXV	219	Phenol, alkylation products (mainly in para position) with C ₁₂ -rich branched alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)	—	—	0.01

Appendix:

- Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1% weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
 - Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
 - On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
- The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 31 and Annex II of REACH.
- The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.



TEST REPORT

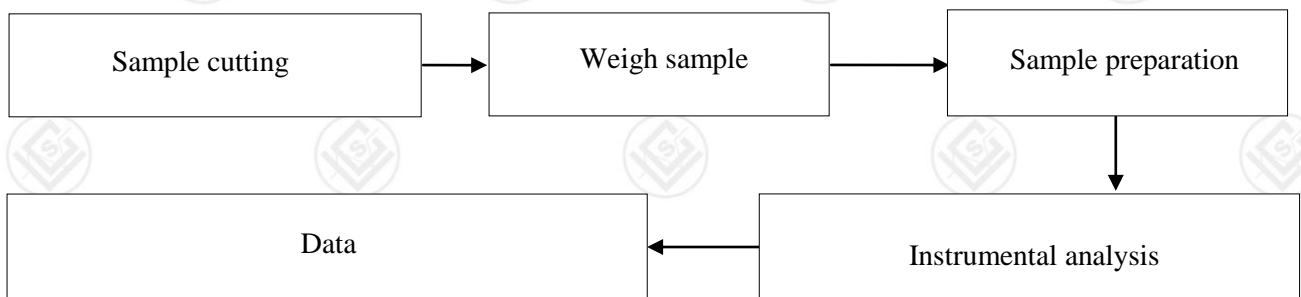
Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 18 of 25

- 1) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
- 2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures or $\geq 0.2\%$ by volume for gaseous mixtures.

Test Process





TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 19 of 25

Photo(s) of the sample(s)



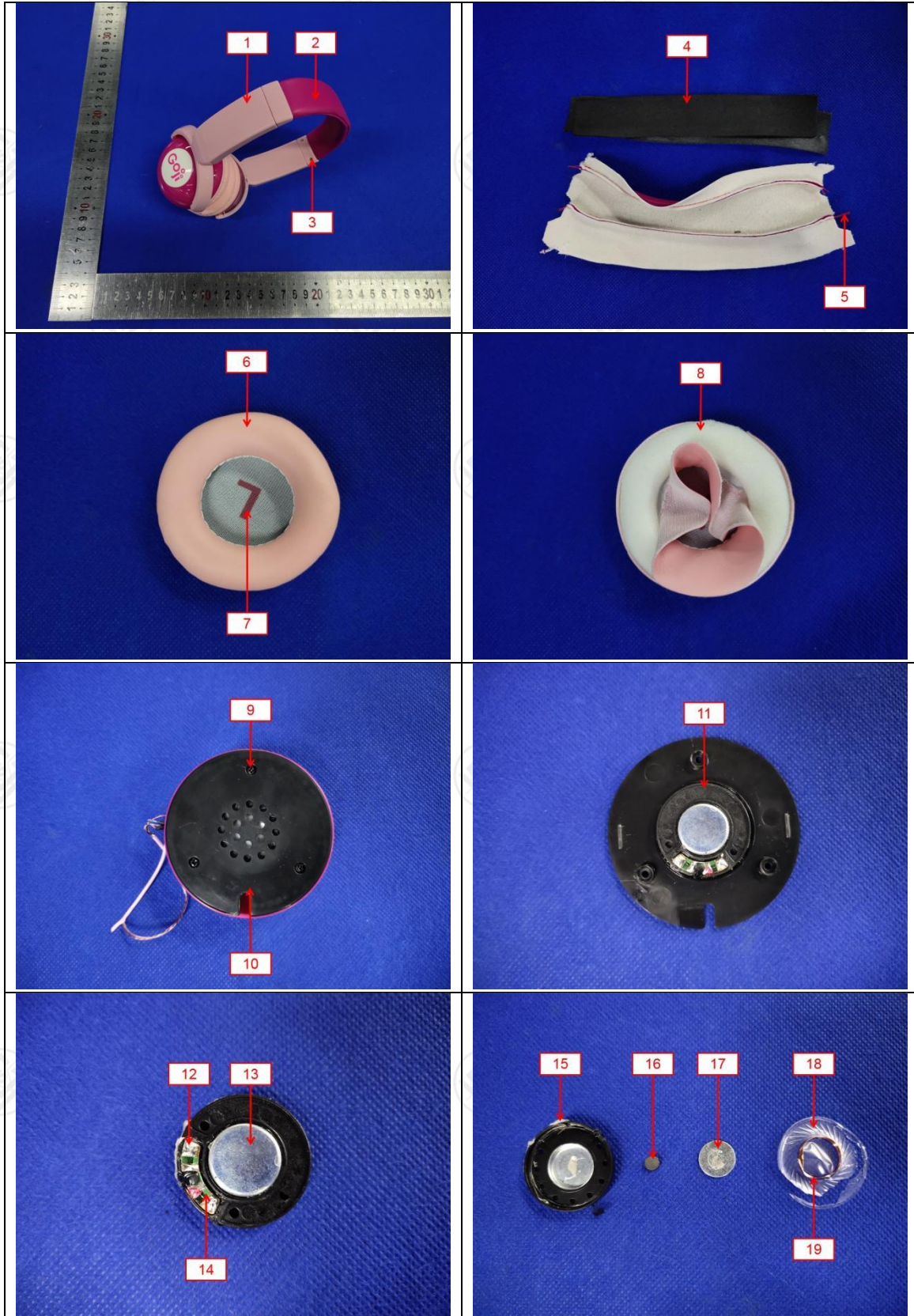


TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 20 of 25



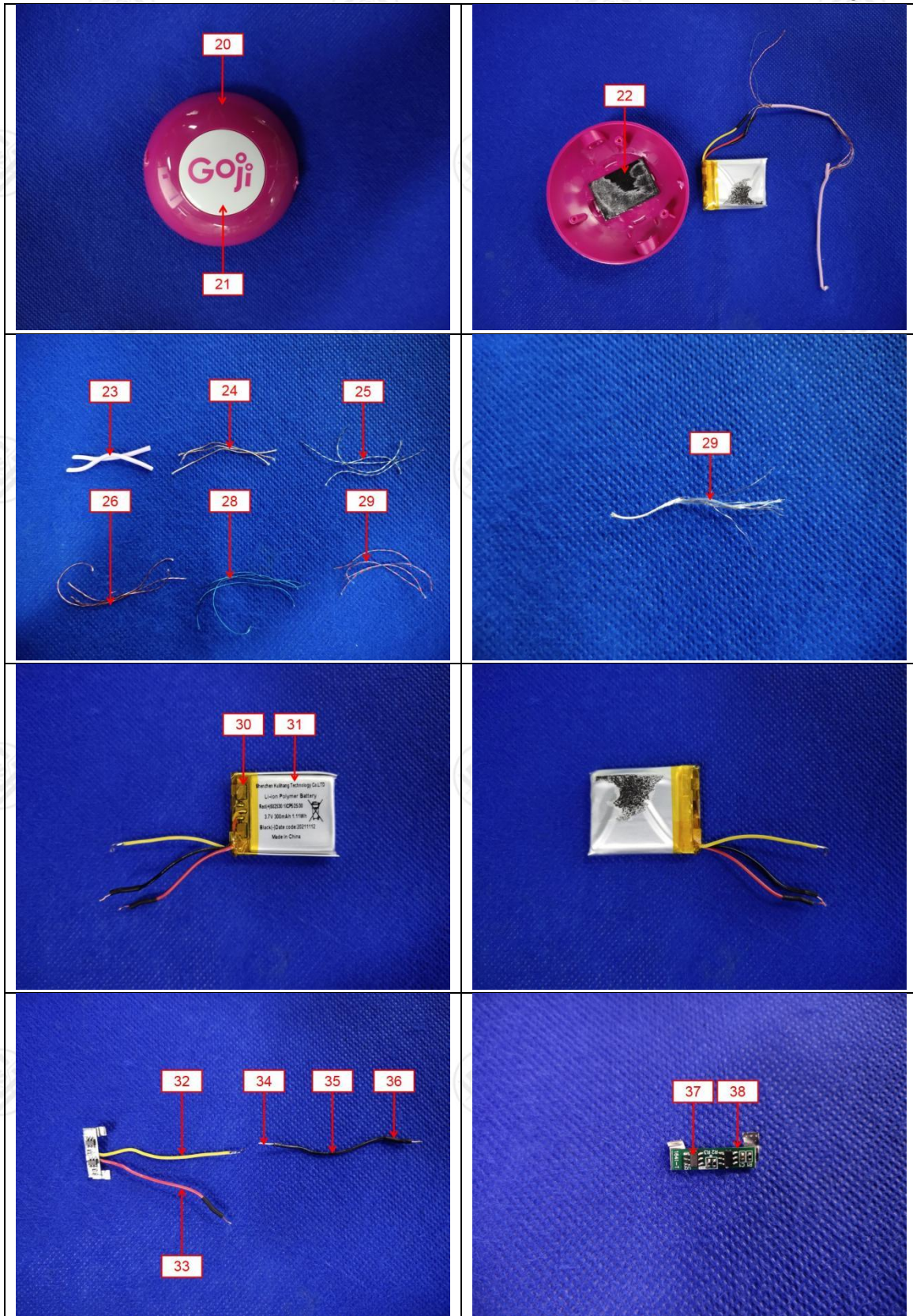


TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 21 of 25



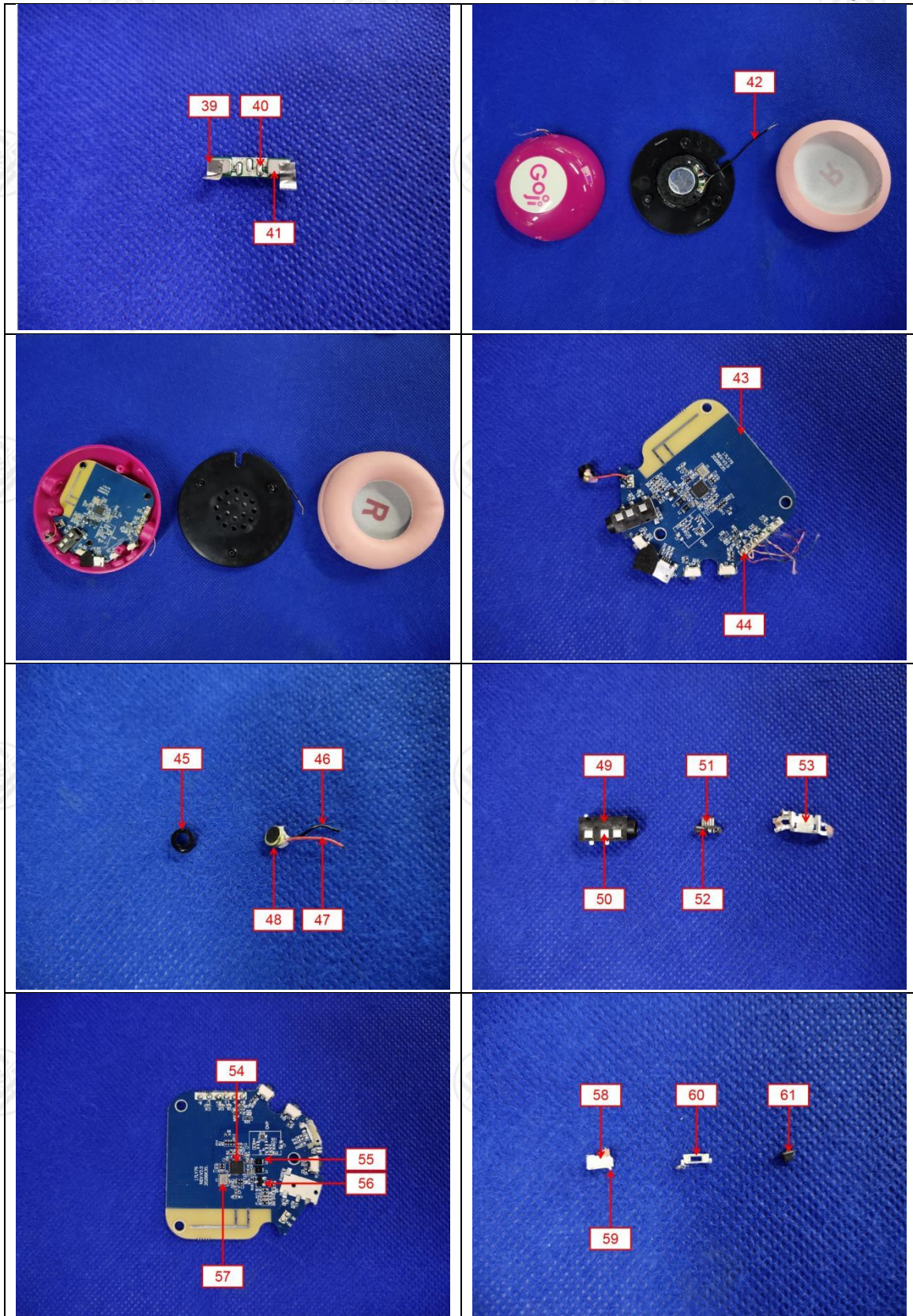


TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 22 of 25



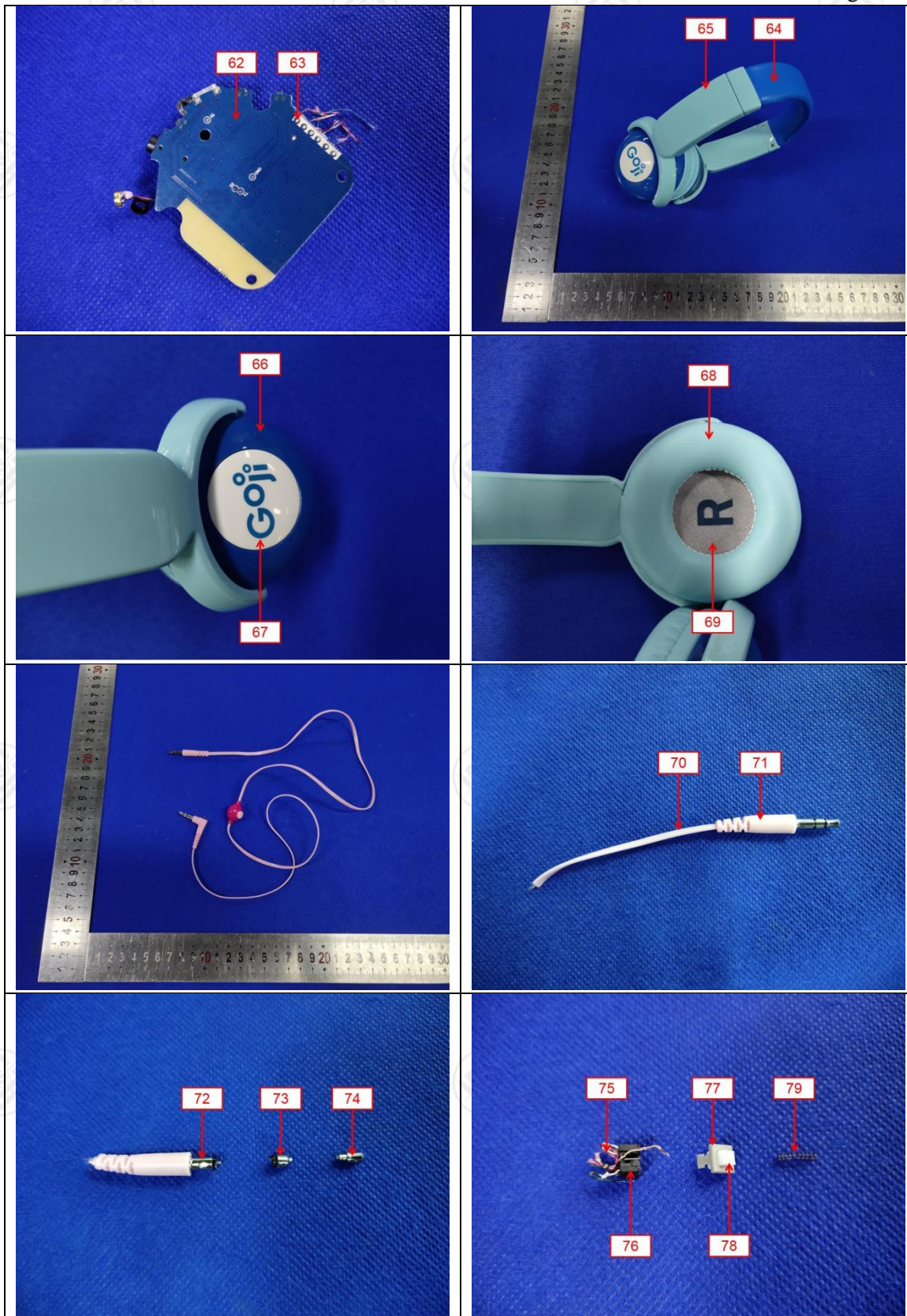


TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 23 of 25



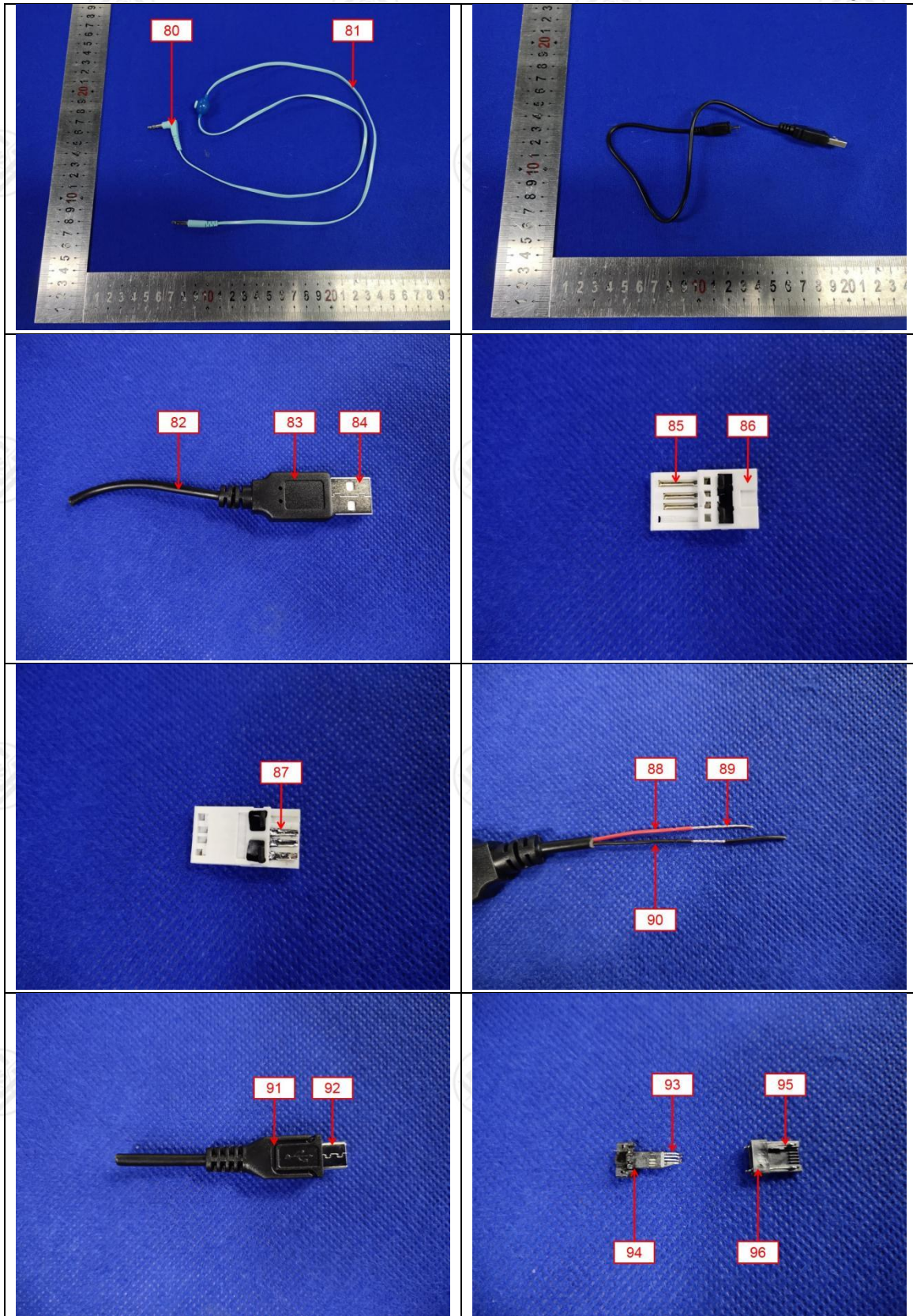


TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 24 of 25





TEST REPORT

Report No.: LCS211103092AR

Issue date: 2021.11.25

Page 25 of 25

Statement:

1. The report is considered invalid without approved signature, special seal;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which LCS hasn't verified;
3. The result(s) shown in this report refer only to the sample(s) tested.;
4. Without written approval of LCS, this report can't be reproduced except in full;
5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of Report ***

