

Verification Report

Report No.: WTH20H09064413X1C-1

Date: Oct. 28, 2020

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Applicant: Sharkoon Technologies GmbH

Address: Grüninger Weg 48, 35415 Pohlheim, Germany

Sample Information:

Sample Name: RUSH_ER30

Sample Description: Please refer to the following page(s).

Trademark: SHARKOON

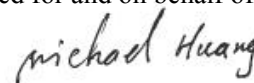
Sample Received Date: Sep. 9, 2020

Testing Period: Sep. 9, 2020 - Sep. 16, 2020

Test Result: Please refer to the following page(s).

Test Requested:	Conclusion
As specified by client, to verify the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Dibutyl phthalate(DBP), Butylbenzyl phthalate(BBP), Di-(2-ethylhexyl) Phthalate(DEHP), Di-iso-butyl phthalate (DIBP) content in the sample with reference to EU RoHS Directive 2011/65/EU and its amendment Directive EU 2015/863.	PASS

Signed for and on behalf of HCT



Michael Huang



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Test Result(s):

No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
1	Pale golden metal shell (socket)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		
		PBDEs	---	---		
2	Silver metal shell (socket)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		
		PBDEs	---	---		
3	White plastic (socket)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
4	Translucent plastic (socket)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
5	Silver metal pins (socket)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		



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No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		PBDEs	---	---		
6	Silver metal solder (socket)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		
		PBDEs	---	---		
7	Black soft plastic outer wire jacket (socket)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
8	Black soft plastic outer wire jacket	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
9	Laminated silver metal foil (wire inside)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		
		PBDEs	---	---		
10	White rope (wire inside)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		



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No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		PBDEs	BL	---		
11	White soft plastic inner wire jacket	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
12	Green soft plastic inner wire jacket	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
13	Black soft plastic inner wire jacket	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
14	Red soft plastic inner wire jacket	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
15	Copper metal wire core	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		



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No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		PBDEs	---	---		
16	Black magnetic core (in-wire)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
17	Black velcro (loop)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
18	Black velcro (hook)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
19	Black plastic shell with gray-white printing	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
20	Black plastic knob	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		



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No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		PBDEs	BL	---		
21	Black PU with blue fabric on the back, sewing thread (ear cushion)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
22	White sponge (filler, ear cushion)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
23	Black mesh (ear cushions)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
24	Black sponge with adhesive (ear cushion)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
25	Black metal screws (ear cushions)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	IN	N.D.		
		PBBs	---	---		



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No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		PBDEs	---	---		
26	Transparent plastic sheet with adhesive, foam (ear hoop)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
27	Silver metal (ear hoop)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	IN	N.D.		
		PBBs	---	---		
		PBDEs	---	---		
28	Black plastic (ear hoop)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
29	Silver metal screws (ear hoop)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		
		PBDEs	---	---		
30	Translucent kelly dry glue (speaker fixing part)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		



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No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		PBDEs	BL	---		
31	Black metal mesh (microphone)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	IN	N.D.		
		PBBs	---	---		
		PBDEs	---	---		
32	Red soft plastic wire jacket (speaker wire)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
33	White soft plastic wire jacket (speaker wire)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
34*	Cream copper clad laminate with green coating (speaker PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	IN	N.D.		
		PBDEs	IN	N.D.		
35	Silver metal solder (speaker PCB board)	Pb	IN	252	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		



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No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		PBDEs	---	---		
36	Silver magnet (speaker)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
37	Black plastic shell (speaker)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
38	Black dry glue (speaker PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
39	Bright silver metal shell (speaker)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	IN	N.D.		
		PBBs	---	---		
		PBDEs	---	---		
40*	Cream copper clad laminate with green coating (large PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	IN	N.D.		



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		PBDEs	IN	N.D.		
41	Silver metal solder (large PCB board)	Pb	IN	114	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		
		PBDEs	---	---		
42	Black soft plastic sleeve (data cable)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
43	Green enameled wire with white fiber (data cable)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
44	Blue enameled wire with white fiber (data cable)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
45	Orange enameled wire with white fiber (data cable)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		



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No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		PBDEs	BL	---		
46	Red enameled wire with white fiber (data cable)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
47	Red/black soft plastic wire jacket	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
48	White LED body (LED2, etc., large PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
49	Translucent dry glue (large PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
50	Black printed white chip resistor (R7, etc., large PCB board)	Pb	IN	265	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	IN	N.D.		
		PBBs	BL	---		



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No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		PBDEs	BL	---		
51	Translucent plastic with black coating (microphone)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
52	Black eight pins body (U2, large PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
53	Black metal wire (microphone)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		
		PBDEs	---	---		
54	Black soft plastic gasket (C5, large PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
55	Silver metal pins (C5, large PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		



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No.	Sample Description	Test Item(s)	ED-XRF Test Result(s) (1)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		PBDEs	---	---		
56	Silver metal foil (C5, large PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		
		PBDEs	---	---		
57	Silver gray metal foil (C5, large PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		
		PBDEs	---	---		
58	Brown electrolytic paper (C5, large PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
59*	Cream copper clad laminate with green coating (small PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	IN	N.D.		
		PBDEs	IN	N.D.		
60	Silver metal solder (small PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		



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		PBDEs	---	---		
61	Black soft plastic non-slip block (microphone)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
62	Silver metal cover (toggle switch)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	IN	N.D.		
		PBBs	---	---		
		PBDEs	---	---		
63	Silver metal shrapnel (toggle switch)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		
		PBDEs	---	---		
64	Silver/golden metal needle (toggle switch)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		
		PBDEs	---	---		
65	Silver white metal sheet (roller switch)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		



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		PBDEs	---	---		
66	Silver metal foil (small PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		
		PBDEs	---	---		
67	Black large IC body (small PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	BL	---		
		PBDEs	BL	---		
68	Silver metal shell with black printing (small PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		
		PBDEs	---	---		
69	Golden metal clip (microphone)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		
		PBDEs	---	---		
70	Silver gray metal foil (small PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		



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		PBDEs	---	---		
71	Silver metal pins (small PCB board)	Pb	BL	---	2020-9-9	●
		Cd	BL	---		
		Hg	BL	---		
		Cr(VI)	BL	---		
		PBBs	---	---		
		PBDEs	---	---		



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3	White plastic (socket)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
4	Translucent plastic (socket)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
7	Black soft plastic outer wire jacket (socket)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
8	Black soft plastic outer wire jacket	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
10	White rope (wire inside)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
11	White soft plastic inner wire jacket	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
12	Green soft plastic inner wire jacket	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
13	Black soft plastic inner wire jacket	DBP	N.D.	2020-9-9	●
		BBP	N.D.		



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No.	Sample Description	Test Item(s)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		DEHP	N.D.		
		DIBP	N.D.		
14	Red soft plastic inner wire jacket	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
16	Black magnetic core (in-wire)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
17	Black velcro (loop)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
18	Black velcro (hook)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
19	Black plastic shell with gray-white printing	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
20	Black plastic knob	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
21	Black PU with blue fabric on the back, sewing thread (ear cushion)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
22	White sponge (filler, ear)	DBP	N.D.	2020-9-9	●



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No.	Sample Description	Test Item(s)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
	cushion)	BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
23	Black mesh (ear cushions)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
24	Black sponge with adhesive (ear cushion)	DBP	156	2020-9-9	●
		BBP	N.D.		
		DEHP	143		
		DIBP	N.D.		
26	Transparent plastic sheet with adhesive, foam (ear hoop)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
28	Black plastic (ear hoop)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
30	Translucent kelly dry glue (speaker fixing part)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
32	Red soft plastic wire jacket (speaker wire)	DBP	615	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	75		
33	White soft plastic wire jacket (speaker wire)	DBP	876	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	171		



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No.	Sample Description	Test Item(s)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
34*	Cream copper clad laminate with green coating (speaker PCB board)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
36	Silver magnet (speaker)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
37	Black plastic shell (speaker)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
38	Black dry glue (speaker PCB board)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
40*	Cream copper clad laminate with green coating (large PCB board)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
42	Black soft plastic sleeve (data cable)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
43	Green enameled wire with white fiber (data cable)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
44	Blue enameled wire with white fiber (data cable)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		



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No.	Sample Description	Test Item(s)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		DIBP	N.D.		
45	Orange enameled wire with white fiber (data cable)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
46	Red enameled wire with white fiber (data cable)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
47	Red/black soft plastic wire jacket	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
48	White LED body (LED2, etc., large PCB board)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
49	Translucent dry glue (large PCB board)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
50	Black printed white chip resistor (R7, etc., large PCB board)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
51	Translucent plastic with black coating (microphone)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
52	Black eight pins body (U2, large PCB board)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		



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No.	Sample Description	Test Item(s)	Chemical Test Result(s) (2)	Received Sample(s) Date	Note
		DEHP	N.D.		
		DIBP	N.D.		
54	Black soft plastic gasket (C5, large PCB board)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
58	Brown electrolytic paper (C5, large PCB board)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
59*	Cream copper clad laminate with green coating (small PCB board)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
61	Black soft plastic non-slip block (microphone)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		
67	Black large IC body (small PCB board)	DBP	N.D.	2020-9-9	●
		BBP	N.D.		
		DEHP	N.D.		
		DIBP	N.D.		

Note:

●=Actual tested sample

*=The specimen is tested as a whole (part) which according to the applicant's request. The result(s) shown on this report may be different from the content of any homogeneous material.

As specified by client, only test the designated sample.

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Remark:

(1)ED-XRF test

(a) For the restricted substances PBBs/PBDEs, the ED-XRF results show the total Br content; for the restricted substance Cr(VI), the ED-XRF results show the total Cr content.

(b) Results were obtained by ED-XRF for primary screening, and further chemical testing are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Unit:mg/kg

Elements	Polymers	Metals	Composite material
Pb	BL ≤ 100 < X < 1200 ≤ OL	BL ≤ 100 < X < 1200 ≤ OL	BL ≤ 80 < X < 1300 ≤ OL
Cd	BL ≤ 30 < X < 120 ≤ OL	BL ≤ 30 < X < 120 ≤ OL	BL ≤ 30 < X < 120 ≤ OL
Hg	BL ≤ 100 < X < 1200 ≤ OL	BL ≤ 100 < X < 1200 ≤ OL	BL ≤ 80 < X < 1300 ≤ OL
Cr	BL ≤ 200 < X	BL ≤ 200 < X	BL ≤ 150 < X
Br	BL ≤ 200 < X	---	BL ≤ 200 < X

(c) BL=Below Limit by ED-XRF analysis, OL=Over Limit by ED-XRF analysis,

IN=Inconclusive, --- = Not regulated, X=need further chemical analysis

(d) For composite material,the ED-XRF results may be different to the actual content in the sample.

(2)Chemical test and regulatory limits

Test Items	Test Method	Test Equipment	MDL	Limit(by weight in homogenous materials)
Pb	IEC 62321-5:2013	ICP-OES/AAS	2mg/kg	1000mg/kg
Cd	IEC 62321-5:2013	ICP-OES/AAS	2mg/kg	100mg/kg
Hg	IEC 62321-4:2013+AMD1:2017	ICP-OES	2mg/kg	1000mg/kg
Cr(VI)	Metal	IEC 62321-7-1:2015	UV-VIS	1000mg/kg
	Others	IEC 62321-7-2:2017	UV-VIS	
PBBs	IEC 62321-6:2015	GC-MS	5mg/kg(Each)	1000mg/kg(Sum)
PBDEs	IEC 62321-6:2015	GC-MS	5mg/kg(Each)	1000mg/kg(Sum)
DBP	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg
BBP	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg
DEHP	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg
DIBP	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg



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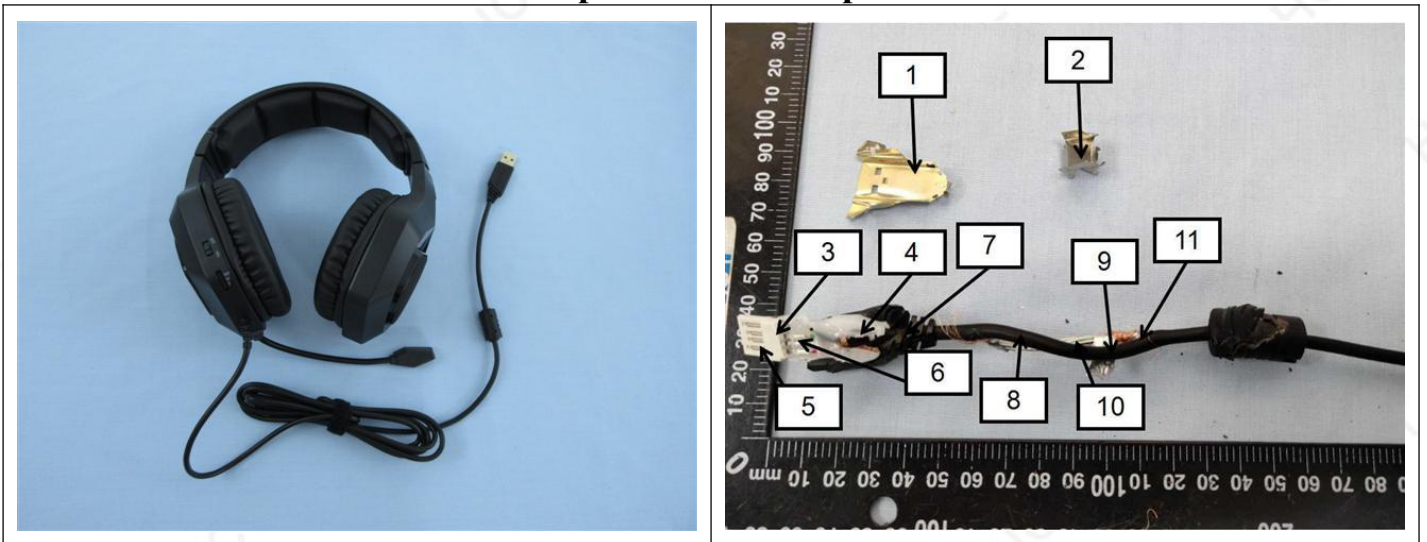
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- (a) Unit of Chemical test result: Cr(VI) of metal: $\mu\text{g}/\text{cm}^2$, Other: mg/kg;
1mg/kg=1ppm=0.0001%, N.D.=not detected (less than method detection limit),
MDL=Method Detection Limit, --- =Not Conducted
- (b) For corrosion-protected coatings on metals
- The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13\mu\text{g}/\text{cm}^2$. The sample coating is considered to contain Cr(VI);
 - The sample is negative for Cr(VI) if Cr(VI) is N.D. (concentration less than $0.10\mu\text{g}/\text{cm}^2$). The coating is considered a non-Cr(VI) based coating;
 - The result between $0.10\mu\text{g}/\text{cm}^2$ and $0.13\mu\text{g}/\text{cm}^2$ is considered to be inconclusive -unavoidable coating variations may influence the determination;
- Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.
- (3) Screening and chemical tests were performed for the samples indicated by the photo in this report.

The photo of the sample



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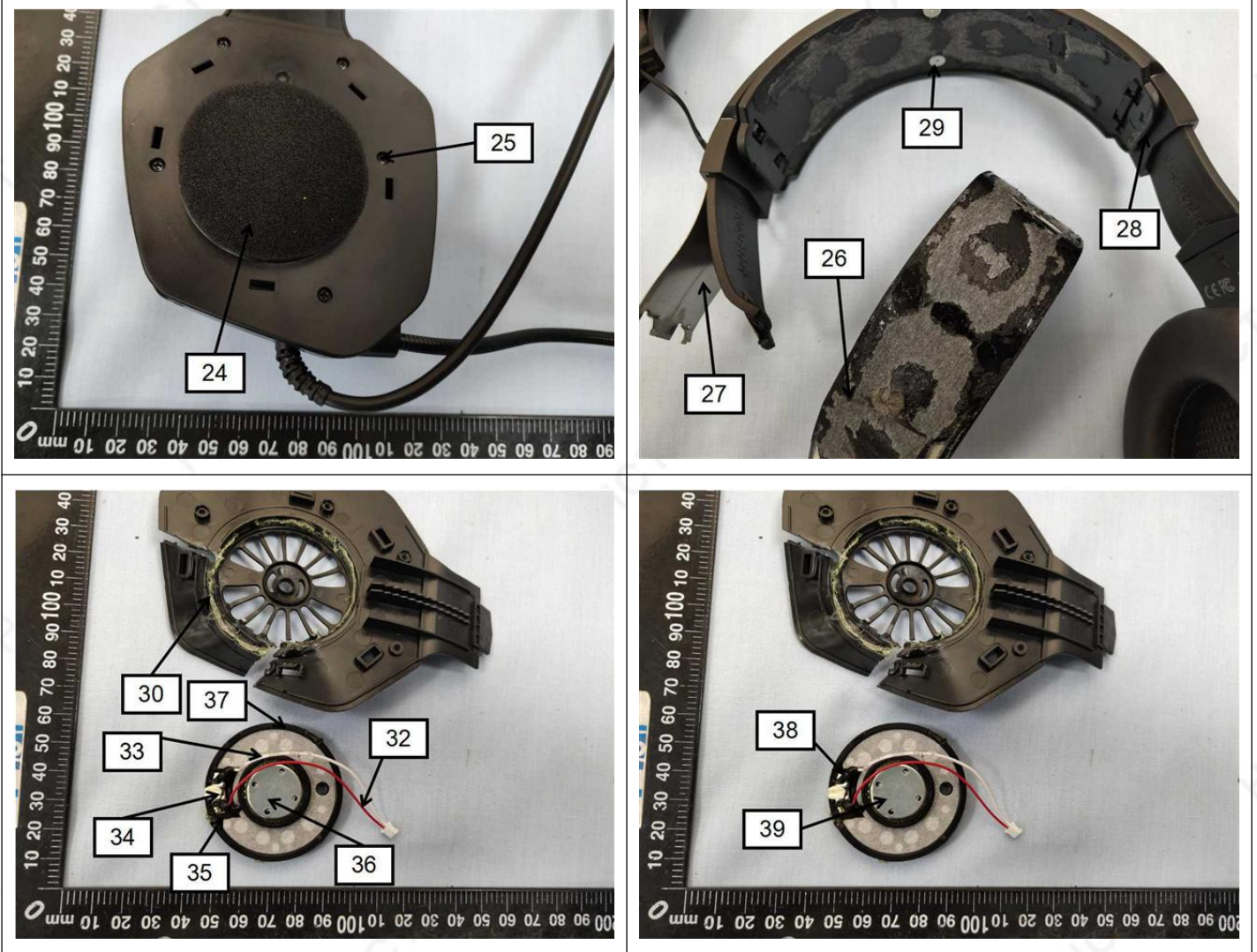


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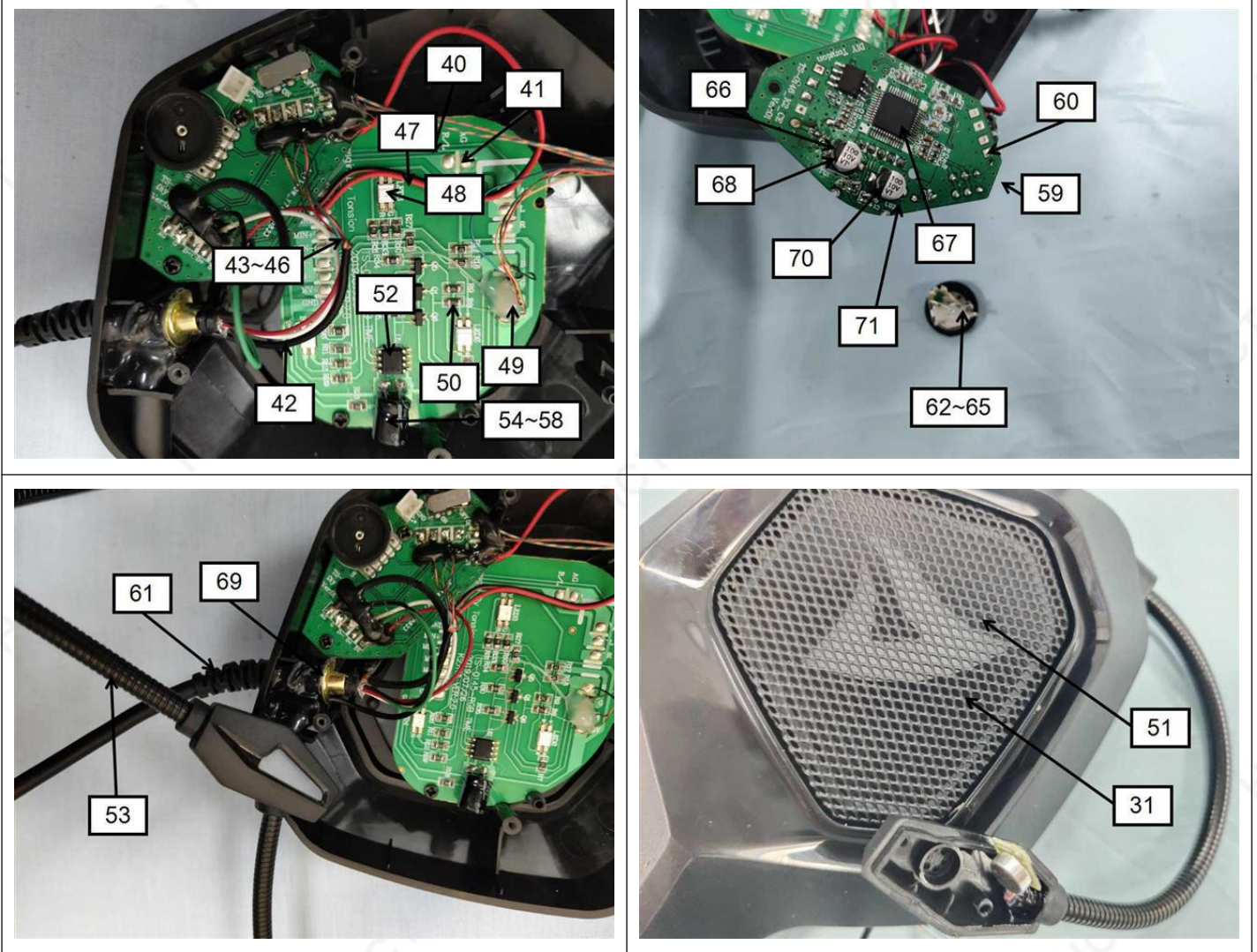


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End

This report will go into effect with HCT stamp. This report could not be revised. This report is only responsible for the test result of received samples. Without written authorization, any copy of this report for propaganda is invalid.

