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ZHONGNUAN NEW ENERGY (QINGDAO)CO., LTD

6TH FLOOR, CROSS-BORDER E-COMMERCE INDUSTRIAL PARK, 20 AOJIANG ROAD, HUANGDAO DISTRICT, QINGDAO

CHINA

THERMOSTAT Sample Name: QP20-001937 - QD SGS Job No.: Model No.: ZNWK-01-603W

Supplier: ZHONGNUAN NEW ENERGY (QINGDAO)CO., LTD Manufacturer: ZHONGNUAN NEW ENERGY (QINGDAO)CO., LTD

Client Ref. Information: Other Model No .:

> ZNWK-01-60301W,ZNWK-01-60302W,ZNWK-01-60303W,ZNWK-01-819W,ZNW K-01-81901W,ZNWK-01-829W,ZNWK-01-365W,ZNWK-01-36501W,ZNWK-01-10 3W,ZNWK-01-10301W,ZNWK-01-600W,ZNWK-01-200W,ZNWK-01-325,ZNWK-0

1-313,ZNWK-01-352,ZNWK-01-910,ZNWK-01-3082, ZNWK-01-7026,ZNWK-09-8038,ZNWK-09-8048

Country of Origin: **CHINA**

Date of Sample Received: 09 Sep 2020

Verification Period: 09 Sep 2020 - 27 Oct 2020

Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU

Verification Method: Please refer to next page(s). Verification Result: Please refer to next page(s).

Verification Conclusion: Based on review of previous reports and verification results of semi-part samples

> assigned by the client, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU)2015/863 amending Annex II

to Directive 2011/65/EU.



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Signed for and on behalf of SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

Wang Bo, Claire Approved Signatory



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Verification Method:

- 1. With reference to IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles.
- 2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
- (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy
- (2) Wet chemical test method
- a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES
- b. With reference to IEC 62321-5:2013, determination of Lead by ICP-OES
- c. With reference to IEC 62321-4:2013+AMD1:2017, determination of Mercury by ICP-OES
- d. With reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017 & ISO 17075-1:2017, determination of Hexavalent chromium by Colorimetric method using
- e. With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
- 3. With reference to IEC 62321-8:2017, determination of phthalates by GC-MS



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In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified

Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
1	Gray plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	'
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
			B.				
2	Black plastic(jacket)	Pb	BL 			Comply	09 Sep 2020
		Cd	BL 			Comply	
		Hg	BL 			Comply	
		Cr(VI)▼	BL 			Comply	
		PBBs	BL 			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
3	Blue plastic(jacket)	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	·
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
4	Brown plastic(jacket)	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
5	Red plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	29 Sep 2020
		Hg	BL			Comply	20 000 2020
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
6	Silvery metal(pin)	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
7	Silvery metal(screw)	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	33 334 333
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
8	White plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
9	White/gray plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
10	White plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
11	Transparent plastic(film)	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
12	Transparent plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
13	Silvery metal(thread)	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	00 00p =0=0
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
14	White plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	'
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	1	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
15	Silvery metal	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	IN		ND	Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
16	Silvery metal(screw)	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	·
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
17	Black metal	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	'
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
18	White plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
19	Green PCB	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	·
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
20	Silvery metal(spring)	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	·
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
21	Black body	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL	 BL BL BL BL		Comply	09 Sep 2020
22	Black body	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	IN BL BL BL	 BL BL BL BL	30	Comply	09 Sep 2020 29 Sep 2020



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
23	Black body	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
24	Beige plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
25	Black body	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
26	White plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
27	Transparent plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	00 00p 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
28	Black/white	Pb	BL			Comply	09 Sep 2020
	plastic(adhesive tape)	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
29	White plastic	Pb	BL			Comply	09 Sep 2020
	·	Cd	BL			Comply	00 00p 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
30	Black/white PCB	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	·
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
31	Silvery plastic(adhesive	Pb	BL			Comply	09 Sep 2020
	tape)	Cd	BL			Comply	29 Sep 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
32	Green adhesive	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	·
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
33	Silvery metal(pin)	Pb	BL	 	Comply	09 Sep 2020
		Cd	BL	 	Comply	
		Hg	BL	 	Comply	
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		
34	Transparent glass	Pb	BL	 	Comply	09 Sep 2020
		Cd	BL	 	Comply	·
		Hg	BL	 	Comply	
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
35	Grey plastic(film)	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	00 00p 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
36	Grey plastic(film)	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	·
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
37	Silvery metal(pin)	Pb	BL			Comply	09 Sep 2020
	,	Cd	BL			Comply	00 00p =0=0
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
38	Black plastic(jacket)	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	'
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
39	Silvery metal(thread)	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	00 00p 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
40	Black/gray plastic(jacket)	Pb	BL			Comply	09 Sep 2020
	(electrolytic capacitor)	Cd	BL			Comply	29 Sep 2020
	(PCB)	Hg	BL			Comply	·
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
41	Black rubber(plug)	Pb	BL			Comply	09 Sep 2020
	(electrolytic capacitor)	Cd	BL			Comply	29 Sep 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
42	Beige plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	'
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
43	Green PCB	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	00 000 000
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
44	Silvery metal(screw)	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
45	Green plastic	Pb	BL			Comply	09 Sep 2020
	·	Cd	BL			Comply	33 33p =3=3
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
46	Black body	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	·
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
47	Black body	Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP	BL BL BL BL BL 	 BL BL	 	Comply Comply Comply Comply Comply Comply Comply Comply	09 Sep 2020
		DEHP DIBP		BL BL		Comply Comply	
48	Black body	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	IN BL BL BL	 BL BL BL BL	4037 *	Comply	09 Sep 2020 29 Sep 2020



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
49	Black body	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
50	Black body	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
51	Silvery metal(soldering	Pb	BL			Comply	09 Sep 2020
	tin)(materials)	Cd	BL			Comply	29 Sep 2020
		Hg	BL			Comply	20 00p 2020
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
52	Silvery metal	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	·
		Hg	BL			Comply	
		Cr(VI)▼	IN		ND	Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
53	Silvery metal	Pb	BL	 	Comply	09 Sep 2020
		Cd	BL	 	Comply	
		Hg	BL	 	Comply	
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		
54	Silvery metal	Pb	BL	 	Comply	09 Sep 2020
		Cd	BL	 	Comply	
		Hg	BL	 	Comply	
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
55	Silvery metal	Pb	OL	 24126	Comply	09 Sep 2020
		Cd	BL	 	Comply	29 Sep 2020
		Hg	BL	 	Comply	20 00p 2020
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		
56	Silvery metal(screw)	Pb	BL	 	Comply	09 Sep 2020
		Cd	BL	 	Comply	·
		Hg	BL	 	Comply	
		Cr(VI)▼	IN	 ND	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
57	Blue capacitor	Pb	IN		77	Comply	09 Sep 2020
	·	Cd	BL			Comply	00 00p =0=0
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
58	Blue capacitor	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
59	Black rubber(plug) (electrolytic capacitor)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL	 BL BL BL BL		Comply	09 Sep 2020 29 Sep 2020
60	Black/gray plastic(jacket) (electrolytic capacitor) (PCB)	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL	 BL BL BL BL		Comply	09 Sep 2020 29 Sep 2020



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
61	Black rubber(plug)	Pb	BL			Comply	09 Sep 2020
	(electrolytic capacitor)	Cd	BL			Comply	33 334 2323
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
62	Black/gray plastic(jacket)	Pb	BL			Comply	09 Sep 2020
	(electrolytic capacitor)	Cd	BL			Comply	29 Sep 2020
	(PCB)	Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL 			Comply	
		PBDEs	BL			Comply	
		DBP		BL 		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
63	Black rubber(plug)	Pb	BL			Comply	09 Sep 2020
	(electrolytic capacitor)	Cd	BL			Comply	00 00p 2020
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
64	Black/gray plastic(jacket)	Pb	BL 			Comply	09 Sep 2020
	(electrolytic capacitor)	Cd	BL 			Comply	
	(PCB)	Hg	BL 			Comply	
		Cr(VI)▼	BL 			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Screening Result of PHTH(2)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
65	Yellow plastic(adhesive tape)	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	BL			Comply	
		PBDEs	BL			Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
66	Black/gray plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
67	Beige plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	33 334 333
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	
68	Copper-colored metal	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	_	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
69	Copper-colored metal	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	,
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
70	Black plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	·
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)		Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
71	Copper-colored	Pb	BL			Comply	09 Sep 2020
	metal(thread)	Cd	BL			Comply	
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
72	White plastic	Pb	BL			Comply	09 Sep 2020
		Cd	BL			Comply	'
		Hg	BL			Comply	
		Cr(VI)▼	BL			Comply	
		PBBs	IN		ND	Comply	
		PBDEs	IN		ND	Comply	
		DBP		BL		Comply	
		BBP		BL		Comply	
		DEHP		BL		Comply	
		DIBP		BL		Comply	



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Part No.	Part Description	Restricted Substances	Results of EDXRF(1)	Result of Wet Chemical Testing(3) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
73	Silvery metal	Pb	BL	 	Comply	09 Sep 2020
		Cd	BL	 	Comply	00 00p =0=0
		Hg	BL	 	Comply	
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		
74	Silvery metal	Pb	BL	 	Comply	09 Sep 2020
		Cd	BL	 	Comply	·
		Hg	BL	 	Comply	
		Cr(VI)▼	BL	 	Comply	
		PBBs		 		
		PBDEs		 		
		DBP		 		
		BBP		 		
		DEHP		 		
		DIBP		 		



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Remark

- (1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).
 - (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit: mg/kg).

Element	Polymer	Metal	Composite Materials
Cd	$BL \le (70-3\sigma) \le X \le (130+3\sigma) \le OL$	$BL \le (70-3\sigma) \le X \le (130+3\sigma) \le OL$	LOD <x <(150+3σ)≤ol<="" td=""></x>
Pb	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>
Hg	BL \leq (700-3 σ) \leq X $<$ (1300+3 σ) \leq OL	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>
Br	BL≤(300-3σ) <x< td=""><td></td><td>BL≤(250-3σ)<x< td=""></x<></td></x<>		BL≤(250-3σ) <x< td=""></x<>
Cr	BL≤(700-3σ) <x< td=""><td>BL≤(700-3σ)<x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<></td></x<>	BL≤(700-3σ) <x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<>	BL≤(500-3σ) <x< td=""></x<>

- (c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection,
- -- = Not regulated.
- (d) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) (a) Screening results of PHTH are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value(unit: mg/kg).

Compound	Polymer
DBP	BL≤600 <x< td=""></x<>
BBP	BL≤600 <x< td=""></x<>
DEHP	BL≤600 <x< td=""></x<>
DIBP	BL≪600 <x< td=""></x<>

- (3) (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not conducted, - = Without BOM.
 - (b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg						
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBBs and PBDEs is 100 mg/kg. MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg. MDL of Cr(VI) for metal sample is 0.10µg/cm².



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- (c) ▼ =Metal sample
 - a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μg/cm²).
 - The coating is considered a non-CrVI based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² 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.

(4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hq/Cr(VI)/PBBs/PBDEs/DEHP/DBP/BBP/DIBP: 0.1%. The limit is guoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP ORG ID,FSP LA NG ID:1258637,25

- (5) According to the declaration from the client, Lead (Pb) in No.048 is exempted by EU RoHS directive 2011/65/EU based on JANNEX III 7(c)-IJ: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.
- According to the declaration from the client, Lead (Pb) in No.055 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 6(c)|: Copper alloy containing up to 4 % lead by weight.



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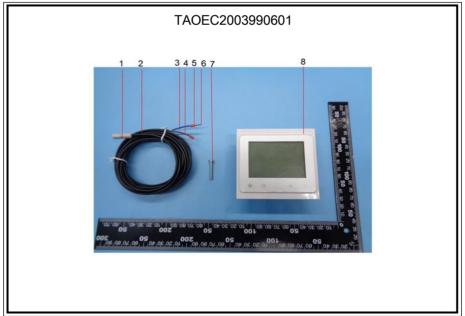
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Sample photo:







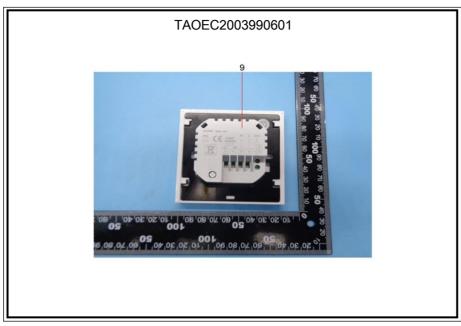
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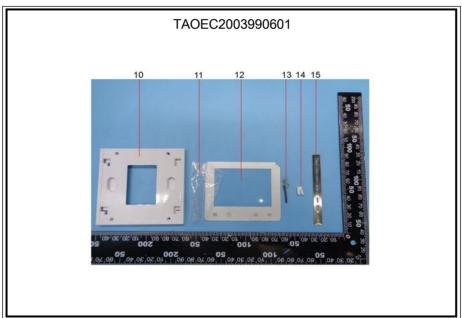


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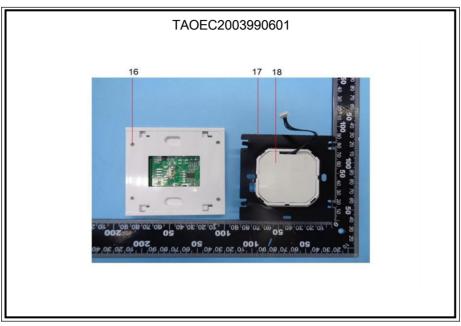


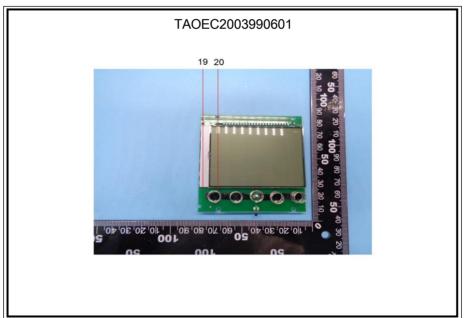
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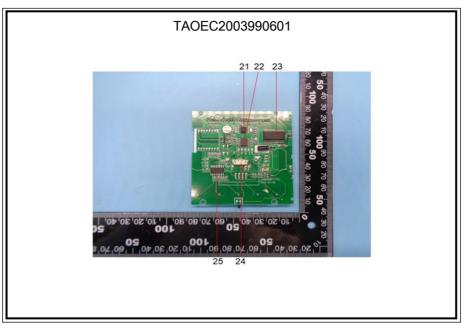


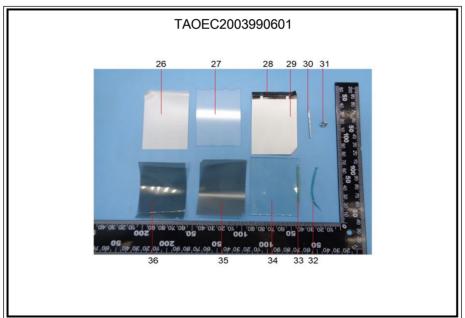
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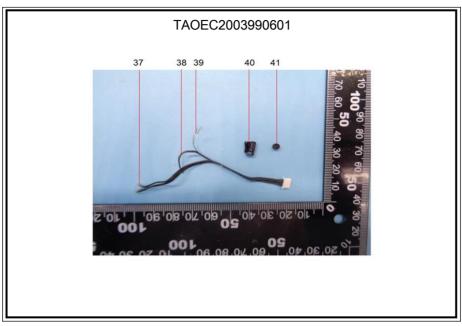


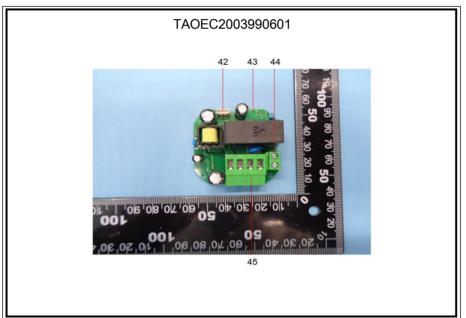
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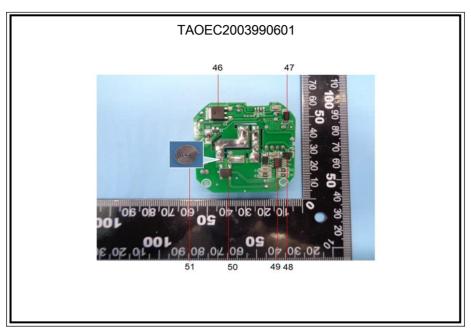


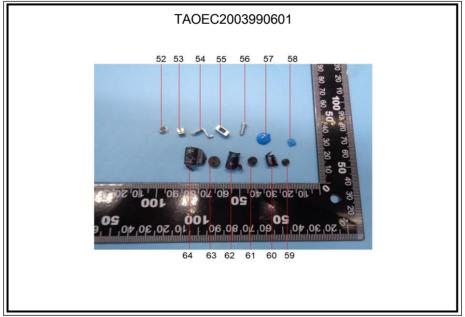
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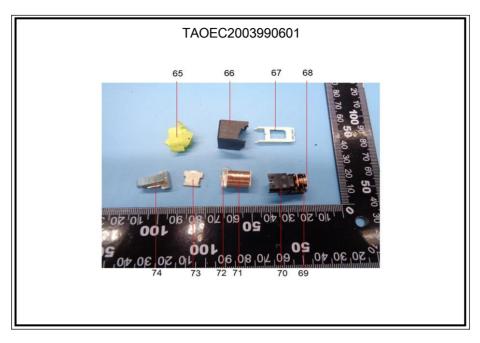


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