

AB-0690-T
TR1837936-RV1
12-20

TEST REPORT

Job No./Report No TR1837936-RV1 Date: 25 December 2020

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EAE TEKNOLOJİ ARAŞTIRMA VE GELİŞTİRME SAN. VE TİC. A.Ş.

İkitelli OSB Ziya Gökalp Mah. Eski Turgut Özal Cad. No:20 Başakşehir / İSTANBUL
TEL: 0531 777 52 76

To the attention of Burcu Özsoy

The following sample(s) was /were submitted and identified by/on behalf of the clients as:

Sample Submitted By : EAE TEKNOLOJİ ARAŞTIRMA VE GELİŞTİRME SAN. VE TİC. A.Ş.
Sample Description : See the following page.
Model No. : MN-B-T06,05,04,03,02,01, MN-X-T06,05,04,03,02,01
Sample Receiving Date : 1 December 2020
Resubmit Date : 25 December 2020
Testing Period : 1 December 2020 ~ 15 December 2020
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s)
Test Result(s) : Please refer to next page(s)

Conclusion : Based on the performed tests on selected part of submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. Unless further specified in an individual contract the sample(s) retention time is 30 days"

In this Test Report tests marked (1) are included in the TÜRKAK Accreditation Scope of this Laboratory.

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The test results relate to the tested items only.
Test reports without SGS seal and authorized signatures are invalid.
Reported results do not include uncertainties.

IN THIS REVISED-1 REPORT, MODEL NO WERE CHANGED BY THE REQUEST OF THE APPLICANT.

THIS REPORT SUPERSEDES OUR REPORT NO: TR1837936 DATED 15.12.2020

Issued in Istanbul
Signed for and on behalf of
SGS Supervise Gözetme Etüd
Kontrol Servisleri A.Ş.

Mert Kurtuluş
Customer Services Supervisor

Bora Şirinbilek
Hardline & CPCH Testing Services Manager



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Test Part Description:
CONCLUSION

Test Part Description:	CONCLUSION
1	Look Sample-MNB-S / MN-X-S
1.1	Transparent black Glass Front panel
1.2	Transparent white Glass Front panel
1.3	Black Plastic Front panel
1.4	White Plastic Front panel
1.5	Black Metal Middle panel
1.6	Black Plastic Motherboard panel
1.7	Black Plastic Socket panel
1.8	Black Metal Panel screws
1.9	Black Metal Socket panel screws
1.10	Red Plastic Socket
1.11	Black Plastic Socket
1.12	Silver Metal Socket feet
1.13	White Plastic Touch button top main
1.14	Transparent Plastic Touch button main
1.15	Silver Metal Capasitor
1.16	Black Ceramic Resistance
1.17	Black Ceramic L1 coil
1.18	Silver Metal T2 tip
1.19	Black Ceramic Resistor
1.20	Brown Ceramic Smd resistance
1.21	Black Plastic Board
1.22	Silver Metal Additional screws
1.23	Silver Metal Additional screws

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Test Item(s):	RESULTS		
	1.1	1.2	1.3
Cadmium(Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) ($\mu\text{g}/\text{cm}^2$) (for metal)	NA	NA	NA
Flame Retardants			
Sum of PBBs	NA	NA	ND
Monobromobiphenyl	NA	NA	ND
Dibromobiphenyl	NA	NA	ND
Tribromobiphenyl	NA	NA	ND
Tetrabromobiphenyl	NA	NA	ND
Pentabromobiphenyl	NA	NA	ND
Hexabromobiphenyl	NA	NA	ND
Heptabromobiphenyl	NA	NA	ND
Octabromobiphenyl	NA	NA	ND
Nonabromobiphenyl	NA	NA	ND
Decabromobiphenyl	NA	NA	ND
Sum of PBDEs	NA	NA	ND
Monobromodiphenyl ether	NA	NA	ND
Dibromodiphenyl ether	NA	NA	ND
Tribromodiphenyl ether	NA	NA	ND
Tetrabromodiphenyl ether	NA	NA	ND
Pentabromodiphenyl ether	NA	NA	ND
Hexabromodiphenyl ether	NA	NA	ND
Heptabromodiphenyl ether	NA	NA	ND
Octabromodiphenyl ether	NA	NA	ND
Nonabromodiphenyl ether	NA	NA	ND
Decabromodiphenyl ether	NA	NA	ND
Phthalates			
Dibutyl phthalate (DBP)	NA	NA	ND
Butyl benzyl phthalate (BBP)	NA	NA	ND
Bis (2-ethylhexyl) phthalate (DEHP)	NA	NA	ND
Diisobutyl Phthalates (DIBP)	NA	NA	ND

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	$\mu\text{g}/\text{cm}^2$ = Microgram per square centimeter		
	mg/kg with 50 cm ² = Milligram per kilogram with 50 square centimetre		
	ND = Not detected (<MDL)	NA = Not applicable	NR = Not requested
	MDL = Method Detection Limit		

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Test Item(s):	RESULTS		
	1.4	1.5	1.6
Cadmium(Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	NA	ND
Hexavalent Chromium (Cr(VI)) (µg/cm ²) (for metal)	NA	ND	NA
Flame Retardants			
Sum of PBBs	ND	NA	ND
Monobromobiphenyl	ND	NA	ND
Dibromobiphenyl	ND	NA	ND
Tribromobiphenyl	ND	NA	ND
Tetrabromobiphenyl	ND	NA	ND
Pentabromobiphenyl	ND	NA	ND
Hexabromobiphenyl	ND	NA	ND
Heptabromobiphenyl	ND	NA	ND
Octabromobiphenyl	ND	NA	ND
Nonabromobiphenyl	ND	NA	ND
Decabromobiphenyl	ND	NA	ND
Sum of PBDEs	ND	NA	ND
Monobromodiphenyl ether	ND	NA	ND
Dibromodiphenyl ether	ND	NA	ND
Tribromodiphenyl ether	ND	NA	ND
Tetrabromodiphenyl ether	ND	NA	ND
Pentabromodiphenyl ether	ND	NA	ND
Hexabromodiphenyl ether	ND	NA	ND
Heptabromodiphenyl ether	ND	NA	ND
Octabromodiphenyl ether	ND	NA	ND
Nonabromodiphenyl ether	ND	NA	ND
Decabromodiphenyl ether	ND	NA	ND
Phthalates			
Dibutyl phthalate (DBP)	ND	NA	ND
Butyl benzyl phthalate (BBP)	ND	NA	ND
Bis (2-ethylhexyl) phthalate (DEHP)	ND	NA	ND
Diisobutyl Phthalates (DIBP)	ND	NA	ND

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	µg/cm ² = Microgram per square centimeter		
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Test Item(s):	RESULTS		
	1.7	1.8	1.9
Cadmium(Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	NA	NA
Hexavalent Chromium (Cr(VI)) (µg/cm ²) (for metal)	NA	ND	ND
Flame Retardants			
Sum of PBBs	ND	NA	NA
Monobromobiphenyl	ND	NA	NA
Dibromobiphenyl	ND	NA	NA
Tribromobiphenyl	ND	NA	NA
Tetrabromobiphenyl	ND	NA	NA
Pentabromobiphenyl	ND	NA	NA
Hexabromobiphenyl	ND	NA	NA
Heptabromobiphenyl	ND	NA	NA
Octabromobiphenyl	ND	NA	NA
Nonabromobiphenyl	ND	NA	NA
Decabromobiphenyl	ND	NA	NA
Sum of PBDEs	ND	NA	NA
Monobromodiphenyl ether	ND	NA	NA
Dibromodiphenyl ether	ND	NA	NA
Tribromodiphenyl ether	ND	NA	NA
Tetrabromodiphenyl ether	ND	NA	NA
Pentabromodiphenyl ether	ND	NA	NA
Hexabromodiphenyl ether	ND	NA	NA
Heptabromodiphenyl ether	ND	NA	NA
Octabromodiphenyl ether	ND	NA	NA
Nonabromodiphenyl ether	ND	NA	NA
Decabromodiphenyl ether	ND	NA	NA
Phthalates			
Dibutyl phthalate (DBP)	ND	NA	NA
Butyl benzyl phthalate (BBP)	ND	NA	NA
Bis (2-ethylhexyl) phthalate (DEHP)	ND	NA	NA
Diisobutyl Phthalates (DIBP)	ND	NA	NA

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	µg/cm ² = Microgram per square centimeter		
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Test Item(s):	RESULTS		
	1.10	1.11	1.12
Cadmium(Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	NA
Hexavalent Chromium (Cr(VI)) ($\mu\text{g}/\text{cm}^2$) (for metal)	NA	NA	ND
Flame Retardants			
Sum of PBBs	ND	ND	NA
Monobromobiphenyl	ND	ND	NA
Dibromobiphenyl	ND	ND	NA
Tribromobiphenyl	ND	ND	NA
Tetrabromobiphenyl	ND	ND	NA
Pentabromobiphenyl	ND	ND	NA
Hexabromobiphenyl	ND	ND	NA
Heptabromobiphenyl	ND	ND	NA
Octabromobiphenyl	ND	ND	NA
Nonabromobiphenyl	ND	ND	NA
Decabromobiphenyl	ND	ND	NA
Sum of PBDEs	ND	ND	NA
Monobromodiphenyl ether	ND	ND	NA
Dibromodiphenyl ether	ND	ND	NA
Tribromodiphenyl ether	ND	ND	NA
Tetrabromodiphenyl ether	ND	ND	NA
Pentabromodiphenyl ether	ND	ND	NA
Hexabromodiphenyl ether	ND	ND	NA
Heptabromodiphenyl ether	ND	ND	NA
Octabromodiphenyl ether	ND	ND	NA
Nonabromodiphenyl ether	ND	ND	NA
Decabromodiphenyl ether	ND	ND	NA
Phthalates			
Dibutyl phthalate (DBP)	ND	ND	NA
Butyl benzyl phthalate (BBP)	ND	ND	NA
Bis (2-ethylhexyl) phthalate (DEHP)	ND	ND	NA
Diisobutyl Phthalates (DIBP)	ND	ND	NA

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	$\mu\text{g}/\text{cm}^2$ = Microgram per square centimeter		
	mg/kg with 50 cm ² = Milligram per kilogram with 50 square centimetre		
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Test Item(s):	RESULTS		
	1.13	1.14	1.15
Cadmium(Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	NA	NA
Hexavalent Chromium (Cr(VI)) ($\mu\text{g}/\text{cm}^2$) (for metal)	NA	ND	ND
Flame Retardants			
Sum of PBBs	ND	NA	NA
Monobromobiphenyl	ND	NA	NA
Dibromobiphenyl	ND	NA	NA
Tribromobiphenyl	ND	NA	NA
Tetrabromobiphenyl	ND	NA	NA
Pentabromobiphenyl	ND	NA	NA
Hexabromobiphenyl	ND	NA	NA
Heptabromobiphenyl	ND	NA	NA
Octabromobiphenyl	ND	NA	NA
Nonabromobiphenyl	ND	NA	NA
Decabromobiphenyl	ND	NA	NA
Sum of PBDEs	ND	NA	NA
Monobromodiphenyl ether	ND	NA	NA
Dibromodiphenyl ether	ND	NA	NA
Tribromodiphenyl ether	ND	NA	NA
Tetrabromodiphenyl ether	ND	NA	NA
Pentabromodiphenyl ether	ND	NA	NA
Hexabromodiphenyl ether	ND	NA	NA
Heptabromodiphenyl ether	ND	NA	NA
Octabromodiphenyl ether	ND	NA	NA
Nonabromodiphenyl ether	ND	NA	NA
Decabromodiphenyl ether	ND	NA	NA
Phthalates			
Dibutyl phthalate (DBP)	ND	NA	NA
Butyl benzyl phthalate (BBP)	ND	NA	NA
Bis (2-ethylhexyl) phthalate (DEHP)	ND	NA	NA
Diisobutyl Phthalates (DIBP)	ND	NA	NA

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	$\mu\text{g}/\text{cm}^2$ = Microgram per square centimeter		
	mg/kg with 50 cm ² = Milligram per kilogram with 50 square centimetre		
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Test Item(s):	RESULTS		
	1.16	1.17	1.18
Cadmium(Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	NA
Hexavalent Chromium (Cr(VI)) (µg/cm ²) (for metal)	NA	NA	ND
Flame Retardants			
Sum of PBBs	NA	NA	NA
Monobromobiphenyl	NA	NA	NA
Dibromobiphenyl	NA	NA	NA
Tribromobiphenyl	NA	NA	NA
Tetrabromobiphenyl	NA	NA	NA
Pentabromobiphenyl	NA	NA	NA
Hexabromobiphenyl	NA	NA	NA
Heptabromobiphenyl	NA	NA	NA
Octabromobiphenyl	NA	NA	NA
Nonabromobiphenyl	NA	NA	NA
Decabromobiphenyl	NA	NA	NA
Sum of PBDEs	NA	NA	NA
Monobromodiphenyl ether	NA	NA	NA
Dibromodiphenyl ether	NA	NA	NA
Tribromodiphenyl ether	NA	NA	NA
Tetrabromodiphenyl ether	NA	NA	NA
Pentabromodiphenyl ether	NA	NA	NA
Hexabromodiphenyl ether	NA	NA	NA
Heptabromodiphenyl ether	NA	NA	NA
Octabromodiphenyl ether	NA	NA	NA
Nonabromodiphenyl ether	NA	NA	NA
Decabromodiphenyl ether	NA	NA	NA
Phthalates			
Dibutyl phthalate (DBP)	NA	NA	NA
Butyl benzyl phthalate (BBP)	NA	NA	NA
Bis (2-ethylhexyl) phthalate (DEHP)	NA	NA	NA
Diisobutyl Phthalates (DIBP)	NA	NA	NA

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Test Item(s):	RESULTS		
	1.19	1.20	1.21
Cadmium(Cd)	ND	ND	ND
Lead (Pb)	ND	ND	ND
Mercury (Hg)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	ND	ND	ND
Hexavalent Chromium (Cr(VI)) ($\mu\text{g}/\text{cm}^2$) (for metal)	NA	NA	NA
Flame Retardants			
Sum of PBBs	NA	NA	ND
Monobromobiphenyl	NA	NA	ND
Dibromobiphenyl	NA	NA	ND
Tribromobiphenyl	NA	NA	ND
Tetrabromobiphenyl	NA	NA	ND
Pentabromobiphenyl	NA	NA	ND
Hexabromobiphenyl	NA	NA	ND
Heptabromobiphenyl	NA	NA	ND
Octabromobiphenyl	NA	NA	ND
Nonabromobiphenyl	NA	NA	ND
Decabromobiphenyl	NA	NA	ND
Sum of PBDEs	NA	NA	ND
Monobromodiphenyl ether	NA	NA	ND
Dibromodiphenyl ether	NA	NA	ND
Tribromodiphenyl ether	NA	NA	ND
Tetrabromodiphenyl ether	NA	NA	ND
Pentabromodiphenyl ether	NA	NA	ND
Hexabromodiphenyl ether	NA	NA	ND
Heptabromodiphenyl ether	NA	NA	ND
Octabromodiphenyl ether	NA	NA	ND
Nonabromodiphenyl ether	NA	NA	ND
Decabromodiphenyl ether	NA	NA	ND
Phthalates			
Dibutyl phthalate (DBP)	NA	NA	ND
Butyl benzyl phthalate (BBP)	NA	NA	ND
Bis (2-ethylhexyl) phthalate (DEHP)	NA	NA	ND
Diisobutyl Phthalates (DIBP)	NA	NA	ND

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Test Item(s):	RESULTS	
	1.22	1.23
Cadmium(Cd)	ND	ND
Lead (Pb)	ND	ND
Mercury (Hg)	ND	ND
Hexavalent Chromium (Cr(VI)) (ppm) (for non metal)	NA	NA
Hexavalent Chromium (Cr(VI)) ($\mu\text{g}/\text{cm}^2$) (for metal)	ND	ND
Flame Retardants		
Sum of PBBs	NA	NA
Monobromobiphenyl	NA	NA
Dibromobiphenyl	NA	NA
Tribromobiphenyl	NA	NA
Tetrabromobiphenyl	NA	NA
Pentabromobiphenyl	NA	NA
Hexabromobiphenyl	NA	NA
Heptabromobiphenyl	NA	NA
Octabromobiphenyl	NA	NA
Nonabromobiphenyl	NA	NA
Decabromobiphenyl	NA	NA
Sum of PBDEs	NA	NA
Monobromodiphenyl ether	NA	NA
Dibromodiphenyl ether	NA	NA
Tribromodiphenyl ether	NA	NA
Tetrabromodiphenyl ether	NA	NA
Pentabromodiphenyl ether	NA	NA
Hexabromodiphenyl ether	NA	NA
Heptabromodiphenyl ether	NA	NA
Octabromodiphenyl ether	NA	NA
Nonabromodiphenyl ether	NA	NA
Decabromodiphenyl ether	NA	NA
Phthalates		
Dibutyl phthalate (DBP)	NA	NA
Butyl benzyl phthalate (BBP)	NA	NA
Bis (2-ethylhexyl) phthalate (DEHP)	NA	NA
Diisobutyl Phthalates (DIBP)	NA	NA

Remarks :	ppm = Parts per million based on dry weight of sample (1 mg/kg = 0.0001%)		
	$\mu\text{g}/\text{cm}^2$ = Microgram per square centimeter		
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SUBSTANCE	LIMITS	
Cadmium (Cd)Content	0.01 % (100 ppm)	
Chromium VI (Cr+6)Content(ppm)(for non metal)	0.1 % (1000 ppm)	
Chromium VI (Cr+6)Content($\mu\text{g}/\text{cm}^2$)for metal)	Colorimetric result < 0.10 $\mu\text{g}/\text{cm}^2$ $\geq 0.10 \mu\text{g}/\text{cm}^2$ and $\leq 0.13 \mu\text{g}/\text{cm}^2$ > 0.13 $\mu\text{g}/\text{cm}^2$	Qualitative Result Negative Inconclusive Positive
Lead (Pb) Content	0.1 % (1000 ppm)	
Mercury (Hg) Content	0.1 % (1000 ppm)	
PBB	0.1 % (1000 ppm)	
PBBDE	0.1 % (1000 ppm)	
Dibutyl Phthalate (DBP)	0.1 % (1000 ppm)	
Diethyl Hexyl Phthalate (DEHP)	0.1 % (1000 ppm)	
Benzyl Butyl Phthalate (BBP)	0.1 % (1000 ppm)	
Diisobutyl Phthalate (DIBP)	0.1 % (1000 ppm)	

Testing Item	Testing Method	MDL
Cadmium (Cd)Content	With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.	2 ppm
Lead (Pb)Content	With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.	2 ppm
Mercury (Hg)Content	With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES.	2 ppm
Chromium VI (Cr6+) (For non-metal)	With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.	8 ppm
Chromium VI (Cr6+) (For metal)	With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.	0.1 $\mu\text{g}/\text{cm}^2$ with 50 cm^2 (IN TESTING SOLUTION)
PBBs/PBDEs	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	5 ppm
Phthalates	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.	50 ppm

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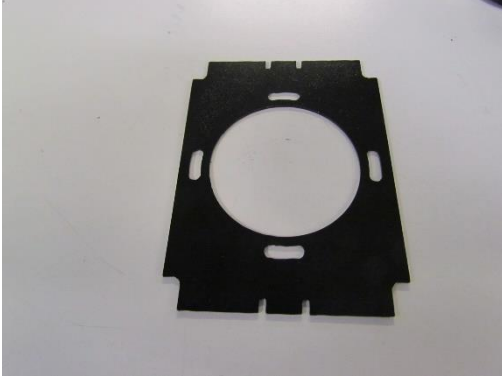
- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series
http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25
- (2) On 4 June 2015, [Commission Directive \(EU\) 2015/863](#) was published in the Official Journal of the European Union (OJEU) to include the phthalates BBP, DBP, DEHP and DIBP into ANNEX II of the Rohs Recast Directive. The new law restricts each phthalate to no more than 0.1% in each homogeneous material of an electrical product.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (4) The restriction of DEHP, BBP, DBP and DIBP shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 July 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 July 2021.
- (5) The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

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1.5



1.6



1.7



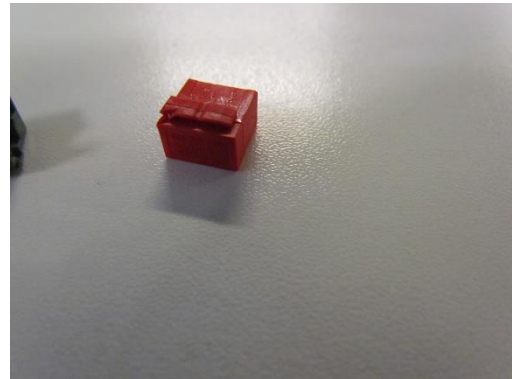
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1.9

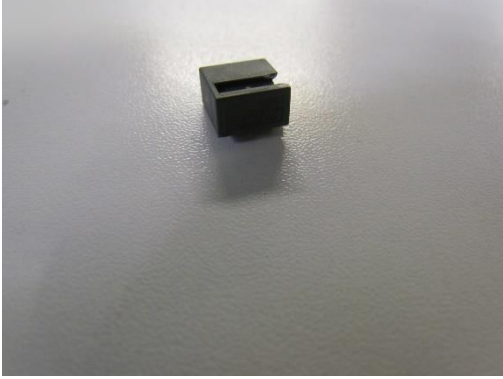


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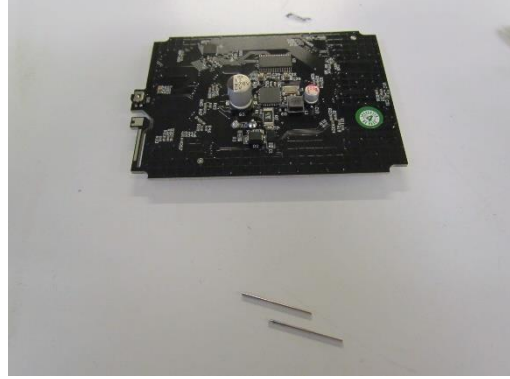


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1.11



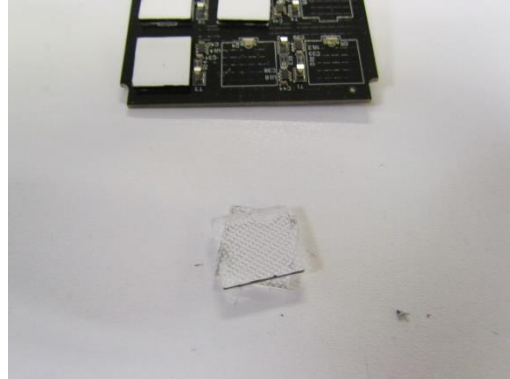
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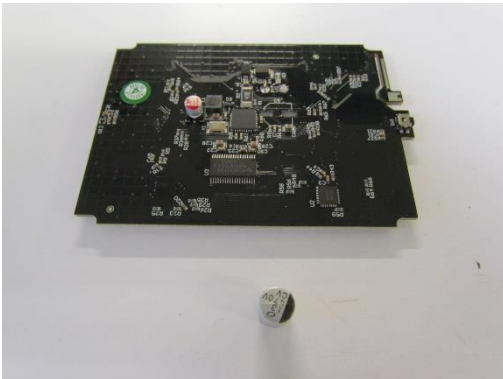
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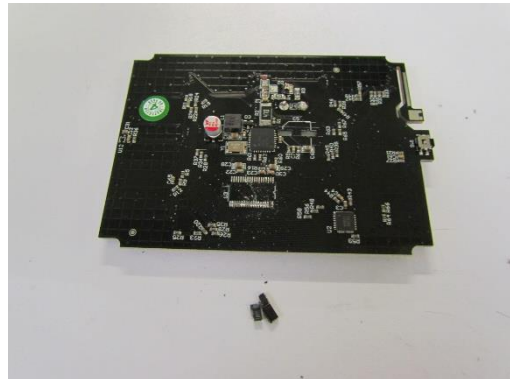
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1.15



1.16



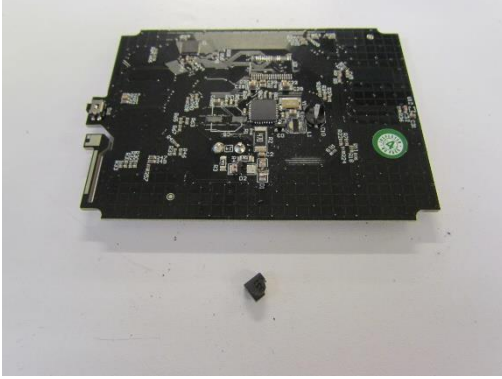
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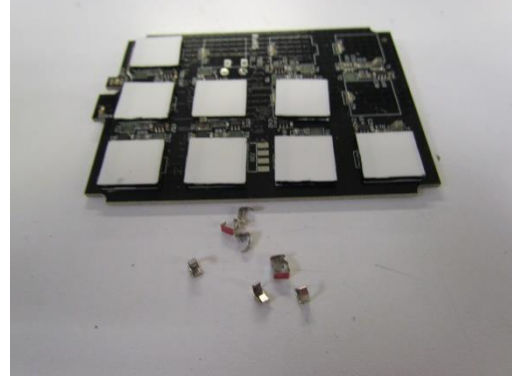
Date: 25 December 2020

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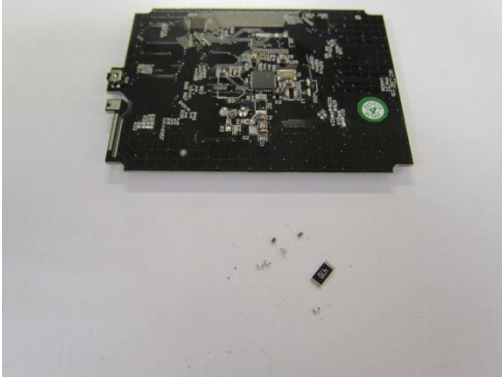
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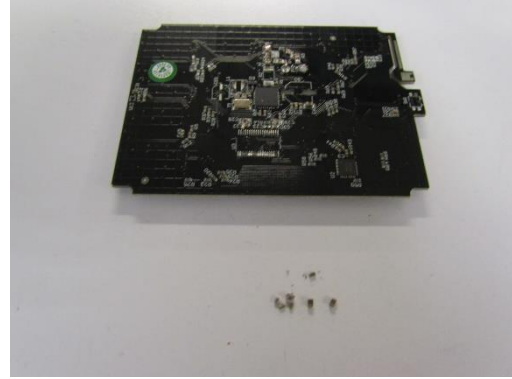
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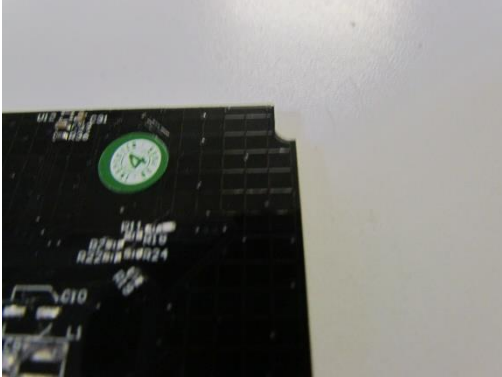
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1.23



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End of Test Report

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