

TEST REPORT

Job No./Report No TR1052842

Date:28 December 2016

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CMK KABLO ELK. SAN. İÇ VE DIŞ TIC. LTD. ŞTİ.

HACIEYÜPOĞLU MAH. AKÇA CD. NO 157 ÜÇLER DENİZLİ

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To the attention of Alim Baydere

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

Sample Submitted By : CMK KABLO ELK. SAN. İÇ VE DIŞ TIC. LTD. ŞTİ.
Sample Description : CABLE
Article No. : Not Provided
Model No. : H05VV-F (Bileşikleri İzole: T12 Kılıf: TM2),
318XA (-40 °C) (Bileşikleri İzole: T14 Kılıf: Type 10),
6242YH (Bileşikleri İzole: T11 Kılıf: Type 6),
H05V2V2-F(Bileşikleri İzole: T13 Kılıf: TM3)
PO / Order No. : Not Provided
Reference No. : Not Provided
Client : Not Provided
End Use : Not Provided
Sample Receiving Date : 23 December 2016
Testing Period : 23 December 2016 ~ 28 December 2016
Service Type : NORMAL
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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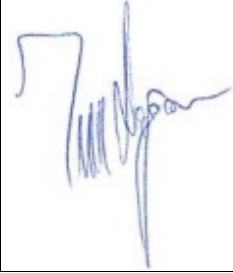
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The test results relate to the tested items only.
Test reports without SGS seal and authorized signatures are invalid.
Reported results do not include uncertainties.
In this Test Report tests marked (1) are included in the IAS Accreditation Scope of this Laboratory. Opinions and interpretations expressed herein are outside the scope of IAS Accreditation.

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

Tuğrul Doğan
Customer Services Supervisor

Ayşe Gönen
Customer Services Team Leader




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Test Part Description :

- No.1: Grey plastic outer shell part
No.2: White plastic outer shell part (H05VV-F 4G1,5)
No.3: Yellow plastic outer shell part
No.4: White plastic outer shell part (H05V2V2-F)
No.5: Yellow,green plastic part
No.6: Brown plastic part
No.7: Black plastic part
No.8: Blue plastic part
No.9: Light grey plastic part
No.10: Dark grey plastic part
No.11: Black support rope
No.12: Bronze copper wire inside of the cables

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Flame Retardants (ROHS)¹

Test Item(s):	Unit	Test Method	Results						MDL	Limit
			1	2	3	4	5	6		
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	-	1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-

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Test Item(s):	Unit	Test Method	Results						MDL	Limit
			1	2	3	4	5	6		
Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	-	1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	5	-

- Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm
 (b) n.d. = Not Detected
 (c) MDL = Method Detection Limit
 (d) " - " = Not Regulated

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Test Item(s):	Unit	Test Method	Results					MDL	Limit
			7	8	9	10	11		
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	-	1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-

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Test Item(s):	Unit	Test Method	Results					MDL	Limit
			7	8	9	10	11		
Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	-	1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS)	n.d.	n.d.	n.d.	n.d.	n.d.	5	-

- Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm
 (b) n.d. = Not Detected
 (c) MDL = Method Detection Limit
 (d) " - " = Not Regulated

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Heavy Metals (ROHS)¹

Test Item(s):	Unit	Test Method	Results						MDL	Limit
			1	2	3	4	5	6		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	n.d.	n.d.	n.d.	2,3 mg/kg	n.d.	n.d.	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	2	1000
Hexavalent Chromium (CrVI)	mg/kg	-	n.d.*	n.d.*	n.d.*	n.d.*	n.d.*	n.d.*	2	1000

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) " * " = Test result for Chromium VI is considered as "n.d" since Total Chromium is not found by IEC 62321 test method.

(e) " - " = Not Regulated

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Test Item(s):	Unit	Test Method	Results					MDL	Limit
			7	8	9	10	11		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	n.d.	n.d.	n.d.	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	n.d.	2,1 mg/kg	33,0 mg/kg	2,3 mg/kg	n.d.	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	n.d.	n.d.	n.d.	n.d.	2	1000
Hexavalent Chromium (CrVI)	mg/kg	-	n.d.*	n.d.*	n.d.*	n.d.*	n.d.*	2	1000

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) " * " = Test result for Chromium VI is considered as "n.d" since Total Chromium is not found by IEC 62321 test method.

(e) " - " = Not Regulated

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Heavy Metals (ROHS)¹

Test Item(s):	Unit	Test Method	Results	MDL	Limit
			12		
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES)	n.d.	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES)	n.d.	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013 (Determination of Hg by ICP-OES)	n.d.	2	1000
Hexavalent Chromium (CrVI)	-	-	Negative*	-	#

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) # = Positive means the presence of CrVI on the tested areas.

Negative means the absence of CrVI on the tested areas.

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

(e) “ * “ = Test result for Chromium VI is considered as “negative” since Total Chromium is not found by IEC 62321 test method.

(f) “ - “ = Not Regulated

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Phthalates¹

Test Item(s):	Unit	Test Method	Results			MDL	Limit
			1	2	3		
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	With reference to EN 14372:2004 (Determination of DEHP by GC-MS)	n.d.	n.d.	n.d.	30	1000
Butyl benzyl phthalate (BBP)	mg/kg	With reference to EN 14372:2004 (Determination of BBP by GC-MS)	n.d.	n.d.	n.d.	30	1000
Dibutyl phthalate (DBP)	mg/kg	With reference to EN 14372:2004 (Determination of DBP by GC-MS)	n.d.	n.d.	n.d.	30	1000
Diisobutyl phthalate (DIBP)	mg/kg	With reference to EN 14372:2004 (Determination of DIBP by GC-MS)	n.d.	n.d.	n.d.	30	1000

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm
 (b) n.d. = Not Detected
 (c) MDL = Method Detection Limit

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Phthalates¹

Test Item(s):	Unit	Test Method	Results			MDL	Limit
			4	5	6		
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	With reference to EN 14372:2004 (Determination of DEHP by GC-MS)	n.d.	n.d.	n.d.	30	1000
Butyl benzyl phthalate (BBP)	mg/kg	With reference to EN 14372:2004 (Determination of BBP by GC-MS)	n.d.	n.d.	n.d.	30	1000
Dibutyl phthalate (DBP)	mg/kg	With reference to EN 14372:2004 (Determination of DBP by GC-MS)	n.d.	n.d.	n.d.	30	1000
Diisobutyl phthalate (DIBP)	mg/kg	With reference to EN 14372:2004 (Determination of DIBP by GC-MS)	n.d.	n.d.	n.d.	30	1000

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm
 (b) n.d. = Not Detected
 (c) MDL = Method Detection Limit

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Phthalates¹

Test Item(s):	Unit	Test Method	Results			MDL	Limit
			7	8	9		
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	With reference to EN 14372:2004 (Determination of DEHP by GC-MS)	n.d.	n.d.	n.d.	30	1000
Butyl benzyl phthalate (BBP)	mg/kg	With reference to EN 14372:2004 (Determination of BBP by GC-MS)	n.d.	n.d.	n.d.	30	1000
Dibutyl phthalate (DBP)	mg/kg	With reference to EN 14372:2004 (Determination of DBP by GC-MS)	n.d.	n.d.	n.d.	30	1000
Diisobutyl phthalate (DIBP)	mg/kg	With reference to EN 14372:2004 (Determination of DIBP by GC-MS)	n.d.	n.d.	n.d.	30	1000

Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm
 (b) n.d. = Not Detected
 (c) MDL = Method Detection Limit

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Test Item(s):	Unit	Test Method	Results		MDL	Limit
			10	11		
Bis (2-ethylhexyl) phthalate (DEHP)	mg/kg	With reference to EN 14372:2004 (Determination of DEHP by GC-MS)	100 mg/kg	n.d.	30	1000
Butyl benzyl phthalate (BBP)	mg/kg	With reference to EN 14372:2004 (Determination of BBP by GC-MS)	n.d.	n.d.	30	1000
Dibutyl phthalate (DBP)	mg/kg	With reference to EN 14372:2004 (Determination of DBP by GC-MS)	n.d.	n.d.	30	1000
Diisobutyl phthalate (DIBP)	mg/kg	With reference to EN 14372:2004 (Determination of DIBP by GC-MS)	n.d.	n.d.	30	1000

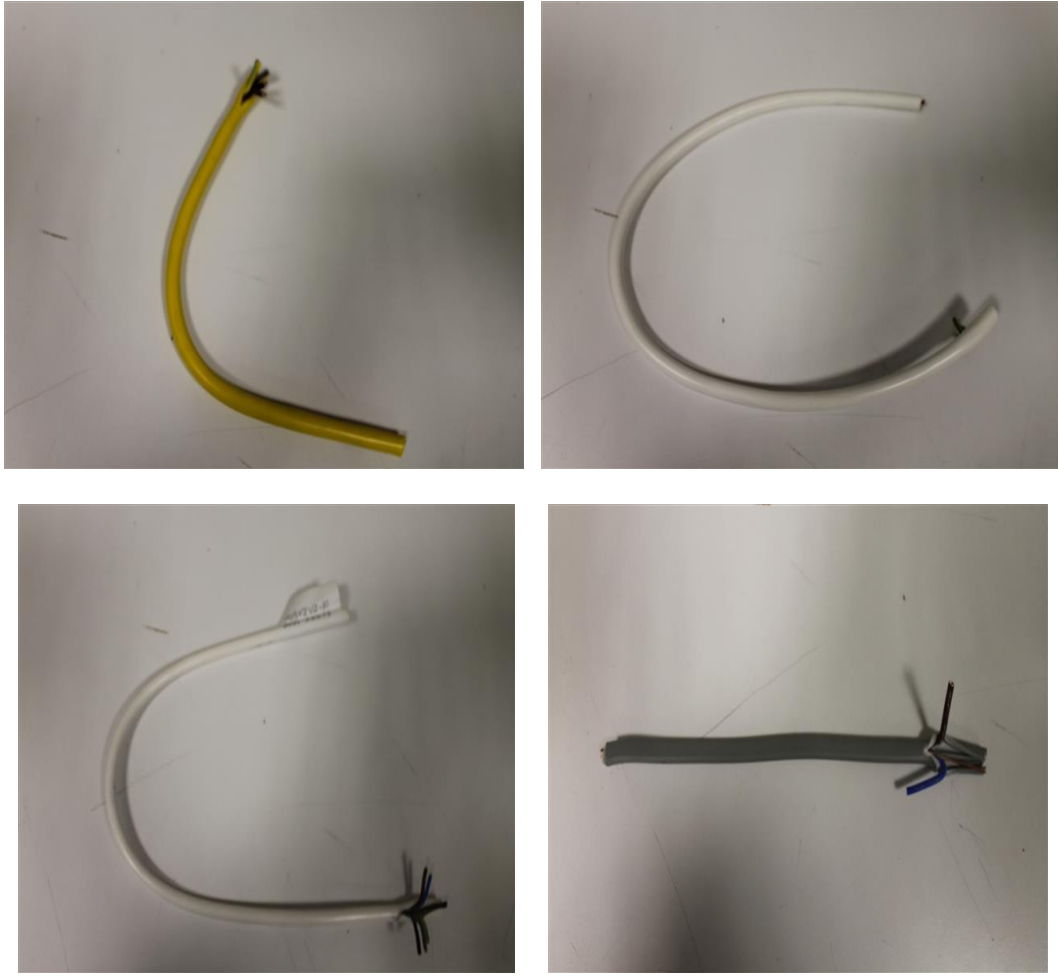
Note: (a) mg/kg = ppm ; 0.1wt % = 1000 ppm
 (b) n.d. = Not Detected
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* * * End of Test Report * * *

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