

Verification Report

No. CANEC1207729401

Date: 10 Jul 2012

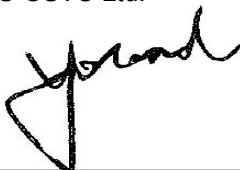
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10GTEK TRANSCEIVERS CO., LTD

7 FLOOR WEST, ANLE WUYE BUILDING, SHUNFENG ROAD, AREA 44, BAOAN DISTRICT, SHENZHEN,
GUANGDONG PROVINCE, CHINA

Sample Name : DAC Cable Assembly
SGS Job No. : CP12-028392 - SZ
Internal Reference No. : 2.1
Tested Basic Model No. (P.O. No.) : CAB-10GSFP-P1M (30WAG)
Client Ref. Info. : According to declaration from client, the materials in models CAB-10GSFP-P3M, CAB-10GSFP-P5M, CAB-10GSFP-P7M, CAB-10GSFP-A10M are the same as those in model CAB-10GSFP-P1M (30WAG).
Date of Sample Received : 14 Jun 2012
Verification Period : 14 Jun 2012 - 10 Jul 2012
Verification Requested : With reference to RoHS Directive 2011/65/EU recasting 2002/95/EC.
Verification Method : Please refer to next page(s).
Verification Result : Please refer to next page(s).
Verification Conclusion : Based on the review of previous reports and verification results of the submitted samples, the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU recasting 2002/95/EC.
Note : The test results are related only to the tested items. The report shall not be reproduced except in full without the written approval of the testing laboratory.

Signed for and on behalf of
SGS-CSTC Ltd.



Yoland Yan

Approved Signatory

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Verification Method :

1. Review was performed for the samples disjointed from the submitted articles and the related test reports submitted by the Applicant
2. Tests were performed for the samples indicated by the photos in the report with test methods reference to IEC 62321:2008: Procedures for the Determination of Levels of Six Regulated Substances in Electrotechnical Products
 - (1) Screening by XRF Spectroscopy
 - (2) Wet Chemical Test Method
 - a. Determination of Lead & Cadmium by ICP-OES or AAS
 - b. Determination of Mercury by ICP-OES
 - c. Determination of Hexavalent Chromium by Spot test or Colorimetric Method
 - d. Determination of PBBs and PBDEs 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	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
1	Black plastic w/ grey printing (cable jacket)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- ND ND	Comply Comply Comply Comply Comply Comply	14 Jun 2012
2	Black adhesive fibre sheet (on No.1)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	14 Jun 2012
3	Black plastic sheet w/ hook (connected w/ No.2)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	14 Jun 2012
4	Silvery metal shell (on No.1)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	14 Jun 2012

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
5 -C	White adhesive plastic sheet w/ black printing (on No.1)		Pb	BL	---	Comply	14 Jun 2012 28 Jun 2012
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
6	Transparent plastic tube (on No.5)		Pb	BL	---	Comply	14 Jun 2012
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
7	Black plastic part (on No.4)		Pb	BL	---	Comply	14 Jun 2012
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	BL	---	Comply	
			PBDEs	BL	---	Comply	
8	Silvery/ golden metal foil (in No.1)		Pb	BL	---	Comply	14 Jun 2012
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
9	Silvery metal foil (in No.1)		Pb	BL	---	Comply	14 Jun 2012
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
10	Black plastic (heat shrinkable tube) (on No.1)		Pb	BL	---	Comply	14 Jun 2012
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	BL	---	Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
11	Silvery metal screw (on No.4)		Pb	BL	---	Comply	14 Jun 2012
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	
12	Silvery metal sheet (on No.4)		Pb	BL	---	Comply	14 Jun 2012
			Cd	BL	---	Comply	
			Hg	BL	---	Comply	
			Cr(VI)	IN	Negative	Comply	
			PBBs	---	---	---	
			PBDEs	---	---	---	

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
13	Silvery metal part (on No.4)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL --- ---	--- --- --- --- --- ---	Comply Comply Comply Comply --- ---	14 Jun 2012
14	Silvery metal shaft (on No.4)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply --- ---	14 Jun 2012
15	Green "PCB" (in No.4)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- ND ND	Comply Comply Comply Comply Comply Comply	14 Jun 2012
16 -C	Black body (on No.15)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	--- --- --- --- ND ND	Comply Comply Comply Comply Comply Comply	14 Jun 2012 28 Jun 2012

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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
17	Yellow translucent glue (in No.4)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	14 Jun 2012
18	Yellow translucent adhesive plastic sheet (on No.15)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	--- --- --- --- --- ---	Comply Comply Comply Comply Comply Comply	14 Jun 2012
19	Silvery metal spring (on No.4)		Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL IN --- ---	--- --- --- Negative --- ---	Comply Comply Comply Comply --- ---	14 Jun 2012

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Remark :

(1) (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It 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 (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(unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(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) mg/kg = ppm = 0.0001%, ND = Not Detected (<MDL), --- = Not Conducted, - = Without BOM.

(b) Unit and Method Detection Limit (MDL) in wet chemical test

Test Items	Pb	Cd	Hg
Units	mg/kg	mg/kg	mg/kg
MDL	2	2	2

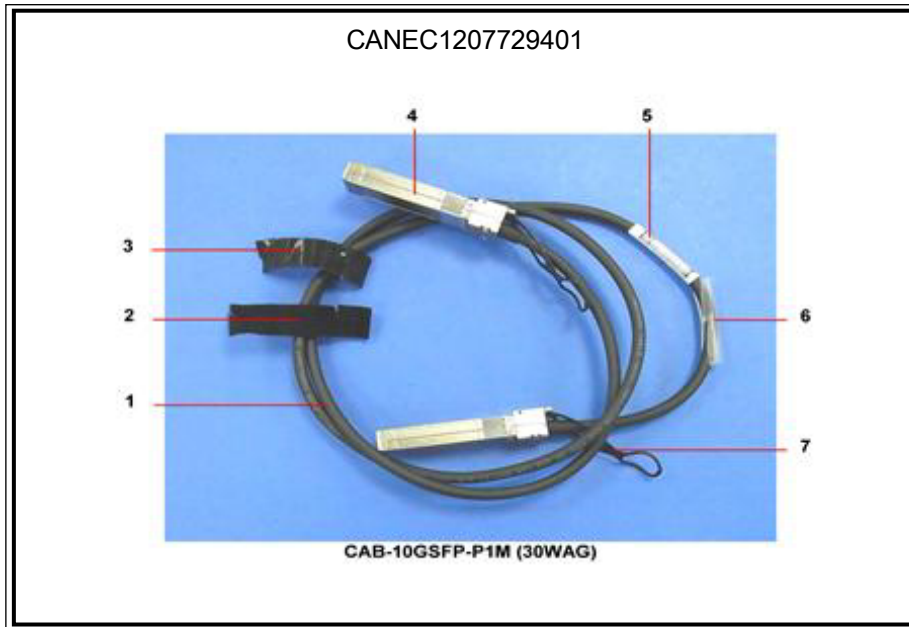
The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr(VI) for polymer & composite sample is 2 mg/kg.

* Due to the few amount of sample, MDL of Cr(VI) in Polymer and Composite Materials is 10 mg/kg.

(c) According to IEC 62321, result on Cr(VI) for metal sample is shown as Positive/Negative.
 Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.

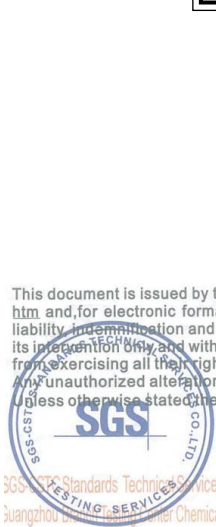
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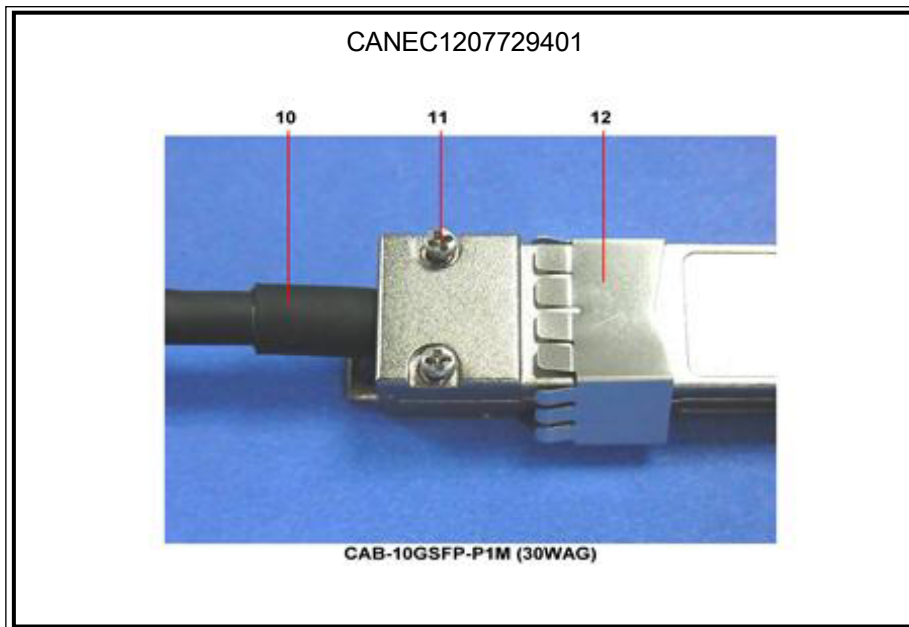
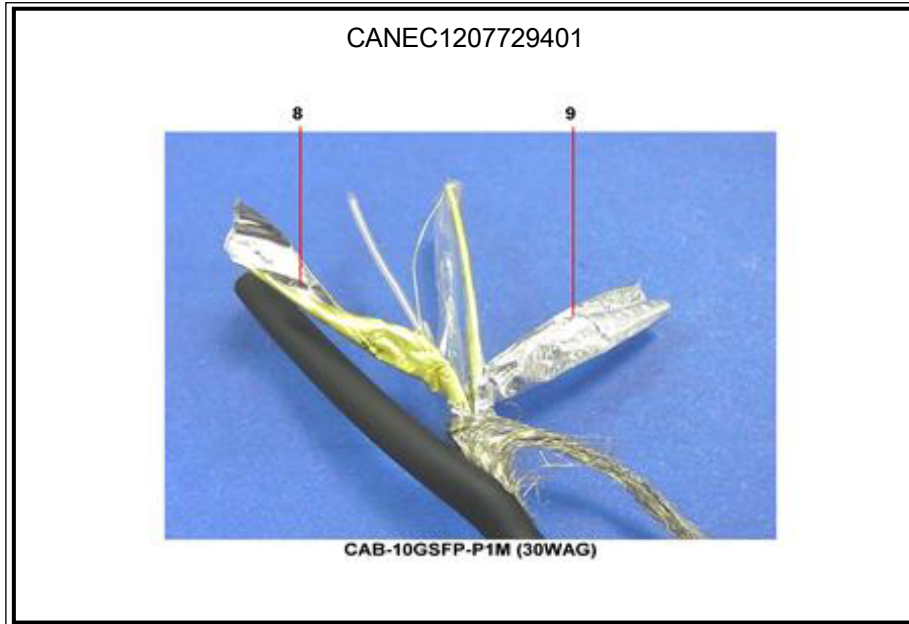
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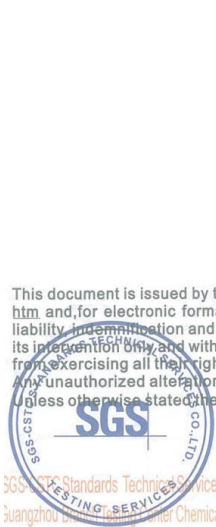
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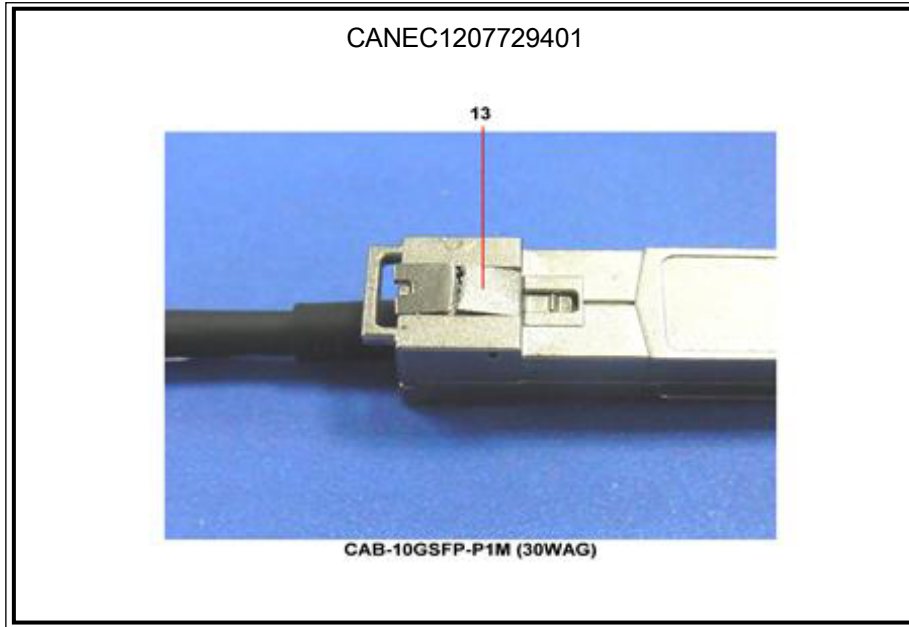
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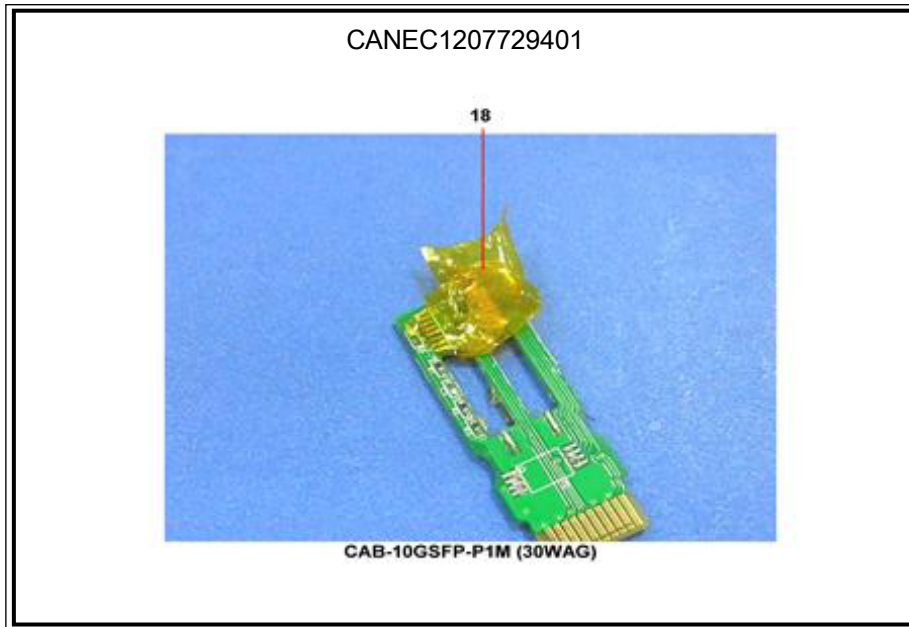
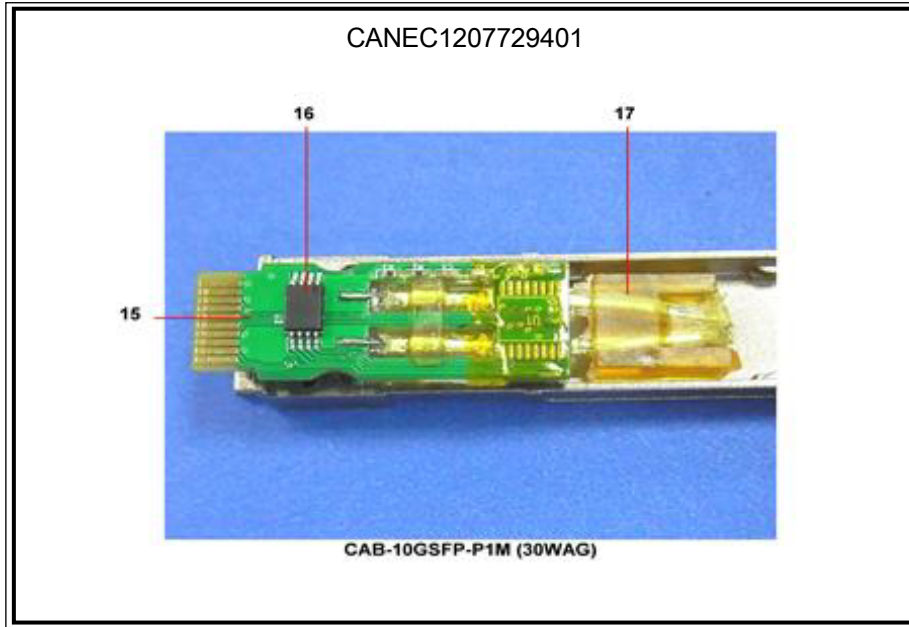


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