

No. SZXEC2100859701

Date: 31 Mar 2021

MSKSEMI

FLAT B,15/F,BLK 9 RHYTHM GARDEN SAN PO KONG HON HONGKONG CHINA

This report is to supersede test report SZXEC2100705701

The following sample(s) was/were submitted and identified on behalf of the clients as : MSESD10EMA05				
SGS Job No. :	RP21-006568 - SZ			
Model No. :	MSESD10EMA05			
Lot No. :	20200315			
Client Ref. Info. :	SOT-23-6,SOT-23-5,SOT-23,SOT-523,SOT-143,SOT-323,SOT-723,			
	DNF0603, DFN1006, SOD882, SOT883, SOD923, SOD723, SOD523,			
	SOD323, DFN2510P8,DFN2510P10 , SOT363,SOT563, DFN2020-3,			
	DO-214AC/SMA, DO-214AA/SMB, DO-214AB/SMC, SMAF, SMBF,			
	SMCF, SOD-123, SOD-123FL, SOD-123SL, SOD-323FL, DFN,			
	QFN,WBFBP-03E,WBFBP-02C,SC-70-6,SOT-353,1812,DFN1608,			
	SOT-89,SC-59,SC-75,0201,0402,0603,0805,1206			
Date of Sample Received :	19 Mar 2021			
Testing Period :	19 Mar 2021 - 24 Mar 2021			
Test Requested :	Selected test(s) as requested by client.			
Test Method :	Please refer to next page(s).			
Test Results :	Please refer to next page(s).			
Conclusion :	Based on the performed tests on submitted sample(s), 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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No. SZXEC2100859701

Date: 31 Mar 2021

Page 2 of 7

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

lina

Tina Fan Approved Signatory





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No. SZXEC2100859701

Page 3 of 7

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SZX21-008597.001	"MSESD10EMA05"

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. SZXEC2100859701		Date: 31 Mar 2021		Page 4 of 7
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl Phthalate (BBP)	1000	mg/kg	50	ND	
Bis(2-ethylhexyl) Phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND	

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series

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(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.

Remark: This report updates Model No.



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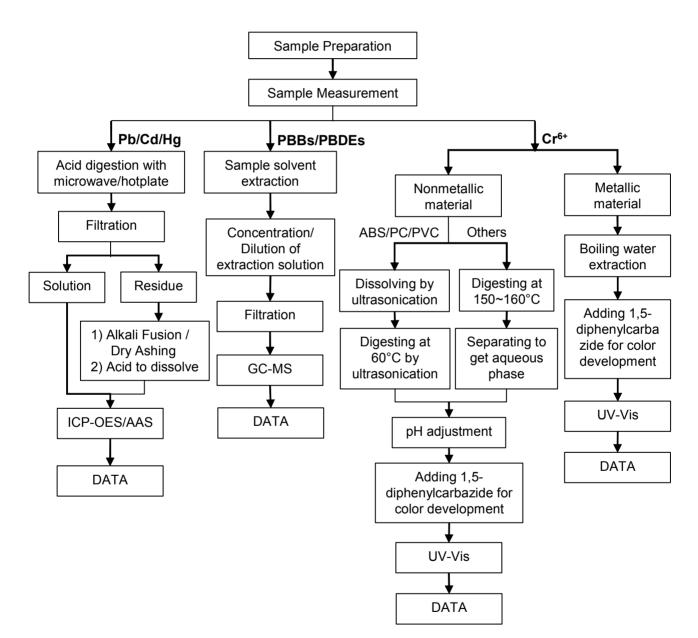


No. SZXEC2100859701

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1)These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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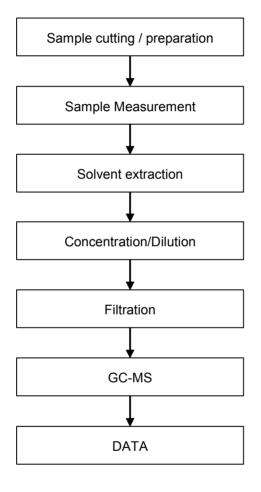
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Date: 31 Mar 2021

Page 6 of 7

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Phthalates Testing Flow Chart





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