



Date: Barueri , 22 Dez 2021

## Relatório de Ensaios

No. BR2105285 Rev. 0

Pag.1 de 6

HT MICRON SEMICONDUTORES S.A. AVENIDA UNISINOS 1550 SAO LEOPOLDO, RS 93022750 BRAZIL

SGS Ordem No. : 40021798

Total de Amostras Recebidas :

As informações acima foram fornecidas pelo cliente ou em seu nome.

Número da Proposta : C&P PR21-304079.21 rev.02

Data de Recebimento da Amostra: 26 Nov 2021

Período de análise : 26 Nov 2021 - 15 Dez 2021

Teste Solicitado : Teste(s) selecionado(s) conforme solicitado pelo cliente.

Descrição das Amostras: Consulte a(s) página(s) seguinte(s).

Método de ensaio : Consulte a(s) página(s) seguinte(s).

Resultados dos Ensaios : Consulte a(s) página(s) seguinte(s).

Responsabilidade Técnica : Alessandra Shimizu - Gerente de Laboratório CRQ 04245592

Assina em nome da SGS do Brasil Ltda.

Alessandra Shimizu

Obstrie z\_

Gerente de Laboratório CRQ 04245592

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Resultados dos Ensaios:

#### Descrição das Amostras

Item No.	SGS ID Amostra	Descrição
1	BR2105285.001	CI DDR4

#### Determinação de Chumbo, Cádmio, Cromo e Mercúrio em Polímeros, Metais e Eletrônicos por ICP-OES

Metodologia Referenciado nas IEC 62321-4:2013+A1:2017 e IEC 62321-5:2013, análise realizada por

ICP-OES.

Item(s) de Teste	<u>Limite</u>	<u>Unid.</u>	<u>MQL</u>	<u>Incerteza</u>	<u>001</u>
Chumbo (Pb)	Max. 1000,00	mg/kg	12,50	± 5,03	62,83
Cádmio (Cd)	Max. 100,00	mg/kg	12,50	NA	ND
Mercúrio (Hg)	Max. 1000,00	mg/kg	62,50	NA	ND

<sup>-</sup> As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de  $\pm 95\%$ .

#### Teste para Cromo Hexavalente em Revestimentos para Prevenção de Corrosão em Metais

Metodologia	Referenciado na IEC 62321-7-2:20	)17, análise rea	lizada por UV	-VIS.		
Item(s) de Teste		<u>Limite</u>	<u>Unid.</u>	<u>MQL</u>	Incerteza	<u>001</u>
Cromo Hexavaler	nte por "Spot Test"	-	-	-	NA	Ausente

<sup>-</sup> As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de ±95%.

#### Determinação de PBB e PBDE em Polímeros por GC-MS

Metodologia Referenciado na IEC 62321-6:2015, análise realizada por GC-MS.						
Item(s) de Teste		<u>Limite</u>	<u>Unid.</u>	<u>MQL</u>	<u>Incerteza</u>	<u>001</u>
Monobromobifenil		-	mg/kg	35,00	NA	ND
Dibromobifenil		-	mg/kg	35,00	NA	ND
Tribromobifenil		-	mg/kg	35,00	NA	ND
Tetrabromobifenil		-	mg/kg	35,00	NA	ND
Pentabromobifeni	I	-	mg/kg	35,00	NA	ND
Hexabromobifenil		-	mg/kg	35,00	NA	ND
Heptabromobifeni	I	-	mg/kg	35,00	NA	ND
Octabromobifenil		-	mg/kg	35,00	NA	ND
Nonabromobifenil		-	mg/kg	35,00	NA	ND
Decabromobifenil		-	mg/kg	35,00	NA	ND
Soma dos PBBs		Max. 1000,00	mg/kg	-	NA	ND
Monobromodifenil	Eter	-	mg/kg	50,00	NA	ND
DiBromoDifenil Et	er	-	mg/kg	50,00	NA	ND
Tribromodifenil Et	er	-	mg/kg	50,00	NA	ND
Tetrabromobifenil	Eter	-	mg/kg	50,00	NA	ND
Pentabromodifeni	l Eter	-	mg/kg	50,00	NA	ND
Hexabromodifenil	Eter	-	mg/kg	50,00	NA	ND
Hexabromodifenil	Eter	-	mg/kg	50,00	NA	ND
Heptabromodifeni	l Eter	-	mg/kg	50,00	NA	ND

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Item(s) de Teste	<u>Limite</u>	<u>Unid.</u>	MQL	<u>Incerteza</u>	<u>001</u>
Heptabromodifenil Eter	-	mg/kg	50,00	NA	ND
Octabromodifenil Eter	-	mg/kg	125,00	NA	ND
Nonabromodifenil Eter	-	mg/kg	125,00	NA	ND
Nonabromodifenil Eter	-	mg/kg	125,00	NA	ND
Nonabromodifenil Eter	-	mg/kg	125,00	NA	ND
Decabromodifenil Eter	-	mg/kg	125,00	NA	ND
Soma dos PBDEs	Max. 1000,00	mg/kg	-	NA	ND

<sup>-</sup> As incertezas expandidas foram calculadas considerando k=2 e intervalo de confiança de ±95%.

Nota:

(1) MQL = Limite de Quantificação do Método

(2) ND = Não Detectado ( < MQL ) (3) "-" = Não Analisado / Não Aplicável

(4) "--" = Análises em Processo

(5) 1 mg/kg = 0,0001%(6) mg/kg = ppm

#### Observações:

Os resultados reportados referem-se somente às amostras submetidas aos ensaios. A SGS não se responsabiliza pelas informações a respeito da composição da amostra e seus dados de fabricação. As mesmas são de responsabilidade exclusiva do cliente e não fazem parte do escopo de serviço da SGS do Brasil LTDA.

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A Regra de decisão definida pela SGS estabelece que a incerteza de medição não será considerada no Veredicto (declaração de conformidade) quando indicado no relatório de ensaio.

AVISO: As opiniões e interpretações expressas abaixo são baseadas nos resultados obtidos a partir do item ensaiado, aplicáveis somente para os ensaios em que os parâmetros de especificação estão inclusos nesse relatório.

#### Opiniões e Interpretações :

Baseado nos testes executados na amostra, o resultado **atende** aos requisitos estabelecidos pela Directiva RoHS 2015/863/UE e suas emendas subsequentes, para os ensaios realizados.

### Resumo de Resultados :

Teste Solicitado :	Método de Ensaio	Avaliação
Determinação de Chumbo, Cádmio, Cromo e	Referenciado nas IEC	Atende
Mercúrio em Polímeros, Metais e Eletrônicos por	62321-4:2013+A1:2017 e IEC	
ICP-OES	62321-5:2013, análise realizada por	
	ICP-OES.	
Teste para Cromo Hexavalente em	Referenciado na IEC	Atende
Revestimentos para Prevenção de Corrosão em	62321-7-2:2017, análise realizada por	
Metais	UV-VIS.	
Determinação de PBB e PBDE em Polímeros por	Referenciado na IEC 62321-6:2015,	Atende
GC-MS	análise realizada por GC-MS.	

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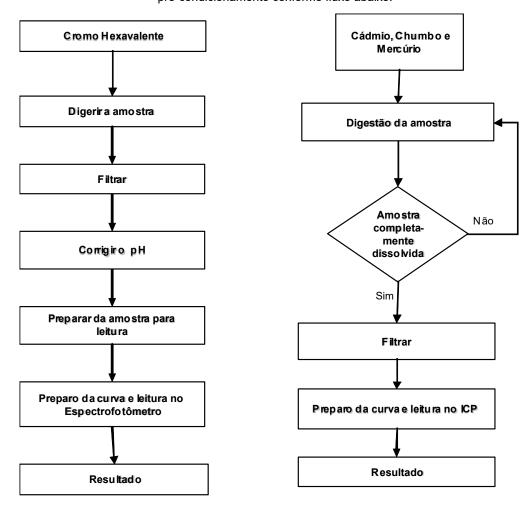
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Amostra foi totalmente digerida e dissolvida pelo método de pre-condicionamento conforme fluxo abaixo.



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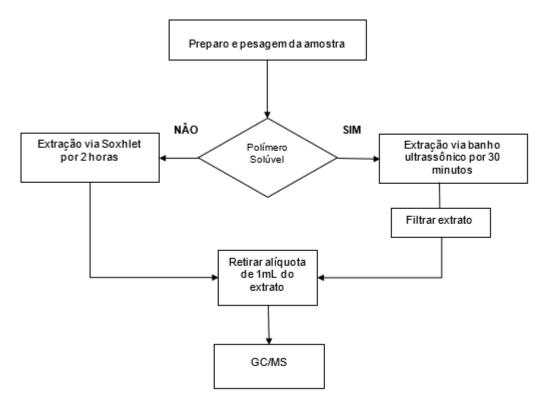
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#### Fluxograma da determinação de PBB e PBDE em polímeros por CG/MS



\*\*\* Final do Relatório \*\*\*

Os ensaios foram realizados no laboratório SGS do Brasil, localizado no endereço citado no rodapé deste relatório.

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Date: Barueri , 14 Dec 2021

**Test Report** No. BR2105285-01 Rev. 0 Page 1 of 4

HT MICRON SEMICONDUTORES S.A. AVENIDA UNISINOS 1550 SAO LEOPOLDO, RS 93022750 BRAZIL

SGS Order No. : 40021798

Total of Sample : 515 Samples

The informations above was provided by or on behalf of the customer.

Proposal Number: C&P PR21-304079.21 rev.02

Date of Sample Received: 26 Nov 2021

Testing Period : 26 Nov 2021 - 13 Dec 2021

Test Requested: Selected test(s) as requested by client.

Test Part Description: Please refer to next page(s).

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Technical Responsability: Alessandra Shimizu - Laboratory Manager CRQ 04245592

Signed for and on behalf of

Obstrie z-

SGS do Brasil Ltda.

Alessandra Shimizu

Laboratory Manager CRQ 04245592

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Date: Barueri , 14 Dec 2021

Test Report No. BR2105285-01 Rev. 0 Page 2 of 4

Test Results:

#### **Test Part Description**

Item No.SGS Sample IDDescription1BR2105285-01.001CI DDR4

#### **Phthalates**

Test Method: CPSC Method CPSC-CH-C1001.09.3 - 2010

<u>001</u>
ND
ND
ND
ND

<sup>-</sup> For expanded uncertainty considered k=2 and ± 95% level of confidence.

#### Remarks:

(1) MQL = Method Quantification Limit (2) ND = Not Detected ( < MQL ) (3) "-" = Not Analyzed / Not Applicable (4) "--" = Analysis in Process

(5) 1 mg/kg =0.0001%

(6) mg/kg = ppm

#### Comments:

The reported results refer only to the samples submitted to the tests. SGS is not responsible for information regarding the composition of the sample and its manufacturing data. These are the sole responsibility of the customer and are not part of the service scope of SGS do Brasil LTDA.

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The Decision Rule defined by SGS states that the uncertainty of measurement will not be considered in the Verdict (declaration of conformity) when indicated in the test report.

WARNING: The opinions and interpretations expressed below are based on the results obtained from the item tested, applicable only to the tests where the specification parameters are included in this report.

#### **Comments and Interpretations:**

Based on tests performed on the sample, the result **pass** the requirements established by RoHS Directive 2015/863/UE and its subsequent amendments, for the tests performed.

#### Result Summary:

Test Requested :	Test Method	Evaluation
Phthalates	CPSC Method CPSC-CH-C1001.09.3	PASS
	- 2010	

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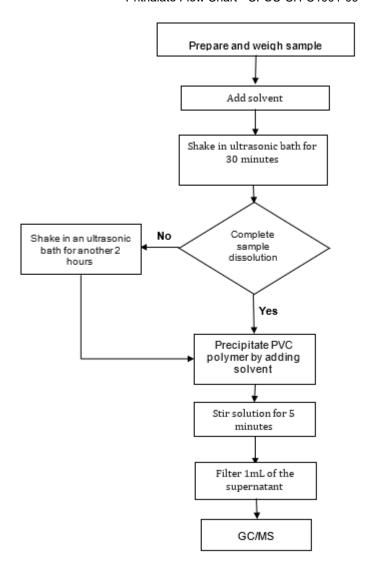
Date: Barueri, 14 Dec 2021

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#### Phthalate Flow Chart - CPSC-CH-C1001-09



\*\*\* End of Report \*\*\*

The assay were conducted in the laboratory in Brazil, located at the address cited at the bottom of this report.

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Test Report No. HKTEC2106140001 Date: 16 Dec 2021 Page 1 of 5

HT MICRON SEMICONDUTORES S.A.

AVENIDA UNISINOS, 1550, CRISTO REI - SÃO LEOPOLDO - RS

The following sample(s) was/were submitted and identified on behalf of the clients as: CI DDR4 BR2105285EXT

SGS Job No. : 4949089 - HK
Date of Sample Received : 03 Dec 2021

Testing Period: 03 Dec 2021 - 15 Dec 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: The test results of submitted sample(s) do not exceed the reference limit.

Signed for and on behalf of SGS Hong Kong Limited.

Lam Ka Yung, Allen Chemist

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No. HKTEC2106140001

Date: 16 Dec 2021

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Test Results:

#### **Test Part Description:**

Specimen No.	SGS Sample ID	Description
1	HKT21-061400.002	Black plastic w/ silvery metal w/ chip

#### Remarks:

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

### <u>Halogen</u>

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Fluorine (F)	-	mg/kg	50	ND
Chlorine (CI)	-	mg/kg	50	ND
Bromine (Br)	-	mg/kg	50	ND
lodine (I)	-	mg/kg	50	ND

#### Notes:

(1) The measurement report of the expanded uncertainty with confident level 95% by coverage factor k=2, is 20% for each analyte of Fluorine, Chlorine, Bromine and Iodine.

## IEC61249-2-21 - Halogen

Test Method: With reference to EN 14582: 2016, determination by Ion Chromatograph (IC) method. (Decision Rule: please refer to appendix 1: Category 1)

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Chlorine (CI)	900	mg/kg	50	ND
Bromine (Br)	900	mg/kg	50	ND
Chlorine (CI)+Bromine (Br)	1,500	mg/kg	100	ND
Conclusion				PASS

### Notes:

The reference limit is referred from IEC61249-2-21.

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## Appendix 1

Category	Decision Rule Statement
1	The decision rule for conformity reporting is based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, w = U95) in ILAC-G8:09/2019 Clause 4.2.3.  A. "Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%.".  B. "Conditional Pass - The measured values were observed in tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values exceeded / out of tolerance. When the measured result is close to the tolerance, the specific false accept risk is up to 50%.".  C. "Conditional Fail - One or more measured values were observed out of tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values were in tolerance. When the measured result is close to the tolerance, the specific false reject risk is up to 50%.".  D. "Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%.
2	The decision rule for conformity reporting is based on BS EN 1811:2011+A1:2015: Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin in Section 9.2 interpretation of results.
3	The decision rule for conformity reporting is based on the general consideration of simple acceptance as stated in ISO/IEC Guide 98-3: "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM 1995)", and more specifically for analytical measurements to the EURACHEM/CITAC Guide 2012 "Quantifying Uncertainty in Analytical Measurement".
4	The decision rule for conformity reporting is according to the IEC 62321-7-1 Edition 1.0 2015-09 Section 7: Table 1-(comparison to standard and interpretation of result)
5	The decision rule for conformity reporting is according to the IEC 62321-3-1 Edition 1.0 2013-06 Annex A.3 interpretation of result.
6	The decision rule for conformity reporting is according to the GB/T 26125-2011 Annex A to H
7	The decision rule for conformity reporting is according to the requested specification or standard (ASTM F963-17 section 4.3.5)
8	The decision rule for conformity reporting is according to the requested specification or standard (AS/NZS ISO 8124 Part 3 section 4.2)
Remark	If the decision rule is not feasible to be used and the uncertainty of the result is able to be provided, the uncertainty range of the result will be shown in the report. Otherwise, only result will be shown in the report.

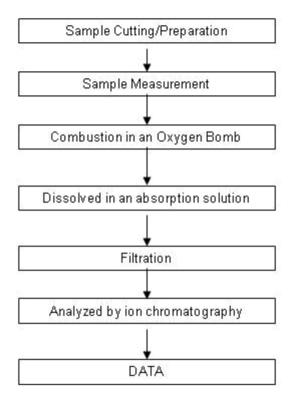
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### Flowchart for Halogen Free Test

Method: BS EN14582:2016



Operator: <u>Tang Ying Sam</u>

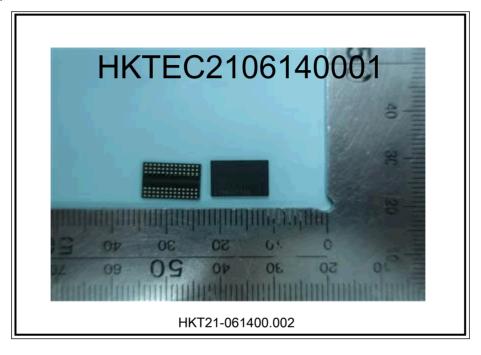
Supervisor: Chan Chun Kit (Dickson)

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Sample photo:

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