



TEST REPORT:

No. CPSA/250558310-CB77361

Job Ref : C&P/2025-05-13-005

REPORTED DATE: 20 May 2025

REDRING SOLDER (M) SDN BHD

LOT 17486, JALAN 2,
TAMAN SELAYANG BARU, 68100 BATU CAVES,
SELANGOR, MALAYSIA.

The following sample(s) was/were submitted and identified by applicant as:

SAMPLE DESCRIPTION : PURE TIN SOLDER Sn
SAMPLE RECEIVED : 13 May 2025
TESTING PERIOD : 13 May 2025 to 20 May 2025

TEST REQUESTED : Selected test(s) as requested by customer
TEST METHOD : - PLEASE REFER TO NEXT PAGE(S) -
TEST RESULTS : - PLEASE REFER TO NEXT PAGE(S) -

SIGNED FOR AND ON BEHALF OF
SGS (MALAYSIA) SDN BHD


TAY SIAM PINE
TECHNICAL MANAGER
IKM NO. M/3452/6047/11/12



Test Report Form No.: SGS/TR/CP/001, Ver: 2.0, Effective Date: 15/03/2021

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TEST REPORT:

No. CPSA/250558310-CB77361

Job Ref : C&P/2025-05-13-005

REPORTED DATE: 20 May 2025

TEST RESULTS:

Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

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

Test Parameter(s):	Unit	Test Method	Result	MDL	Limit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.	N.D.	2	Max 100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.	52	2	Max 1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES.	N.D.	2	Max 1000
Hexavalent Chromium (CrVI)	µg/cm²	With reference to IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.	N.D.	0.10	-
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	-	Max 1000
Monobromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Dibromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tribromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Pentabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Hexabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Heptabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Octabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Nonabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Decabromobiphenyl	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-

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TEST RESULTS:

Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

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

Test Parameter(s):	Unit	Test Method	Result	MDL	Limit
Sum of PBDEs	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	-	Max 1000
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.	N.D.	5	-

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TEST RESULTS:

Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

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

Test Parameter(s):	Unit	Test Method	Result	MDL	Limit
Dibutyl phthalate (DBP) (CAS No. 84-74-2)	mg/kg	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.	N.D.	50	Max 1000
Benzyl butyl phthalate (BBP) (CAS No. 85-68-7)	mg/kg	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.	N.D.	50	Max 1000
Di(2-ethylhexyl) phthalate (DEHP) (CAS No. 117-81-7)	mg/kg	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.	N.D.	50	Max 1000
Diisobutyl phthalate (DIBP) (CAS No. 84-69-5)	mg/kg	With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.	N.D.	50	Max 1000

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

(b) N.D. = Not Detected

(c) MDL = Method Detection Limit

(d) - = Not regulated

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

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

(g) a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI.

b. The sample is negative for CrVI if CrVI is N.D. (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating.

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.

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.

(h)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.

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TEST REPORT:

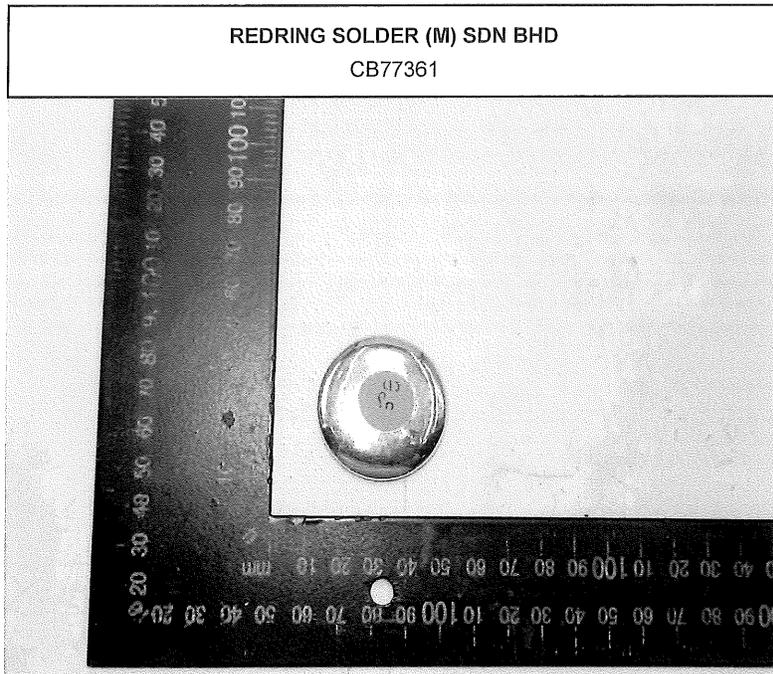
No. CPSA/250558310-CB77361

Job Ref : C&P/2025-05-13-005

REPORTED DATE: 20 May 2025

Test Part Description :

Sample Description: -PLEASE REFER TO PAGE 1-



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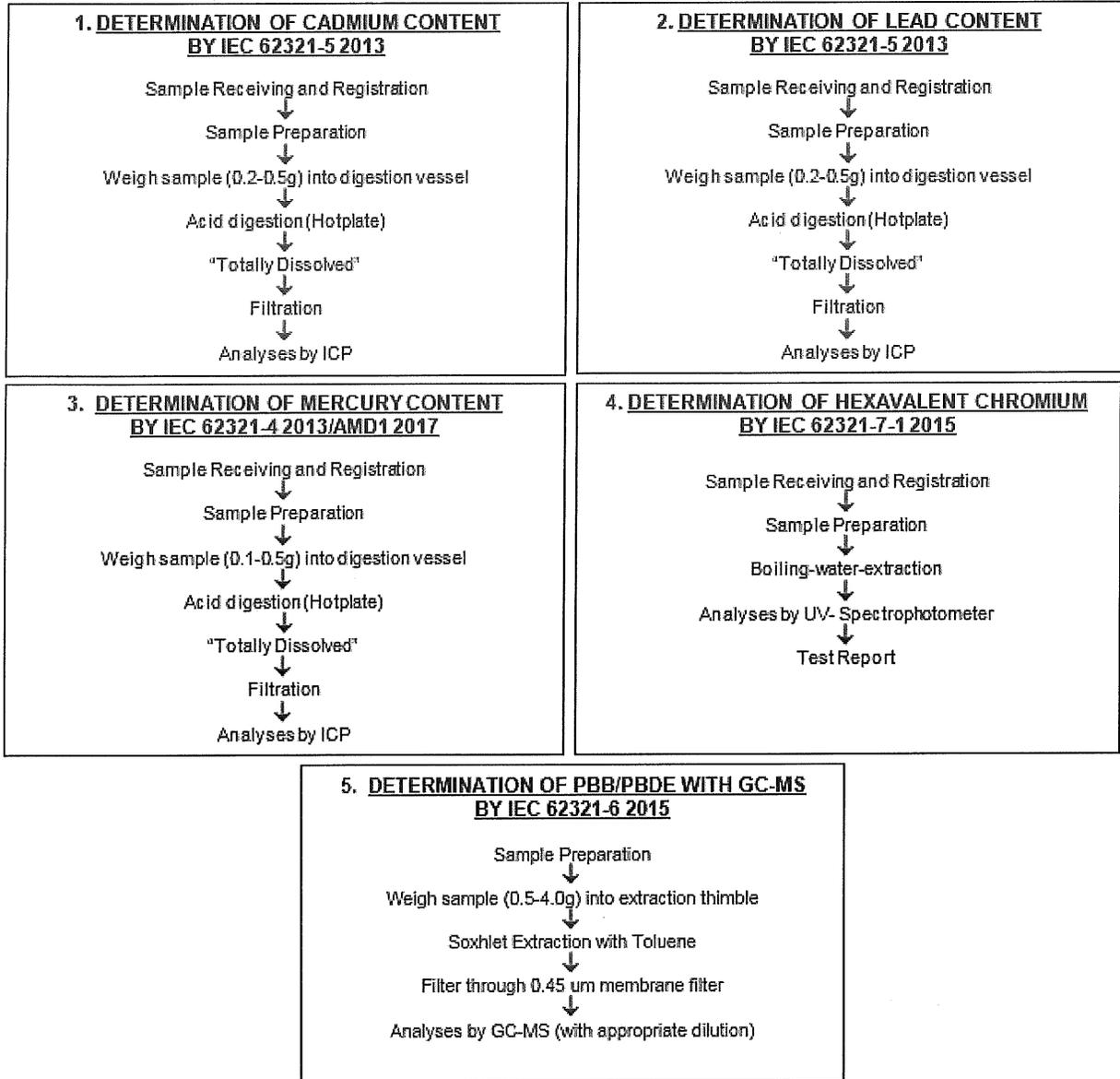
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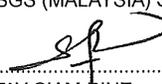
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Job Ref : C&P/2025-05-13-005

REPORTED DATE: 20 May 2025

DETERMINATION OF PHTHALATES WITH GC-MS

BY IEC 62321-8:2017

Sample Cutting / Preparation



Sample Measurement



Solvent Extraction



Concentrate / Dilute extracted solution

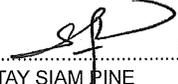


GC-MS analysis



DATA

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*** End of test report ***

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TEST REPORT

No. CPSA/250558101-CB77362

REPORTED DATE: 16-May-2025

Job Ref. C&P/2025-05-13-005

REDRING SOLDER (M) SDN BHD

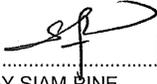
LOT 17486, JALAN 2,
TAMAN SELAYANG BARU, 68100 BATU CAVES,
SELANGOR, MALAYSIA.

The following sample(s) was/were submitted and identified by applicant as:

Sample Description : PURE TIN SOLDER Sn
Sample Received : 13-May-2025
Testing Period : 13-May-2025 to 16-May-2025

Test Requested : Selected test(s) as requested by customer
Test Method : -PLEASE REFER TO NEXT PAGE(S)-
Test Results : -PLEASE REFER TO NEXT PAGE(S)-

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TEST REPORT

No. CPSA/250558101-CB77362

REPORTED DATE: 16-May-2025

Job Ref. C&P/2025-05-13-005

Test results by chemical method :

Test Part Description :

Sample Description: -PLEASE REFER TO PAGE 1-

Test Parameter(s):	Unit	Test Method	Result	MDL
Halogen-Fluorine (F)	mg/kg	With reference to BS EN 14582:2016, analysis performed by IC method for Fluorine content.	N.D.	50
Halogen-Chlorine (Cl)	mg/kg	With reference to BS EN 14582:2016, analysis performed by IC method for Chlorine content.	N.D.	50
Halogen-Bromine (Br)	mg/kg	With reference to BS EN 14582:2016, analysis performed by IC method for Bromine content.	N.D.	50
Halogen-Iodine (I)	mg/kg	With reference to BS EN 14582:2016, analysis performed by IC method for Iodine content.	N.D.	50

Note : (a) mg/kg = ppm
(b) N.D. = Not Detected
(c) MDL = Method Detection Limit

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TEST REPORT

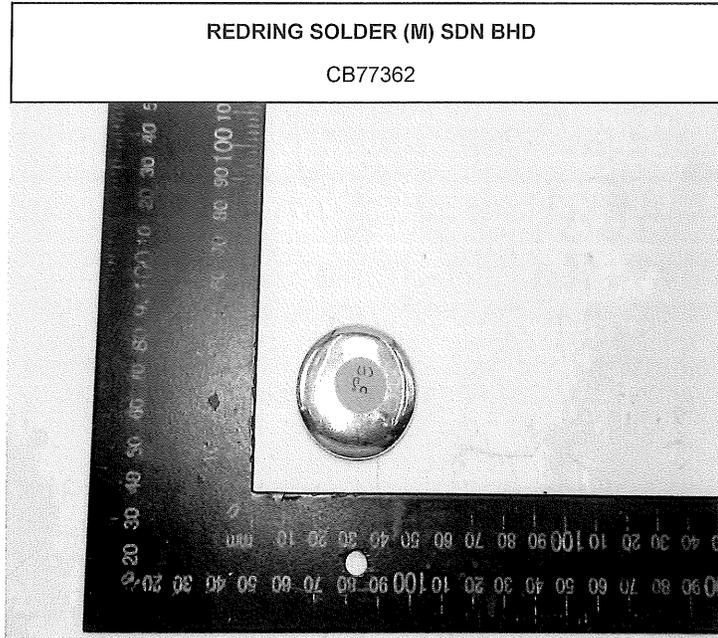
No. CPSA/250558101-CB77362

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Sample Description: -PLEASE REFER TO PAGE 1-



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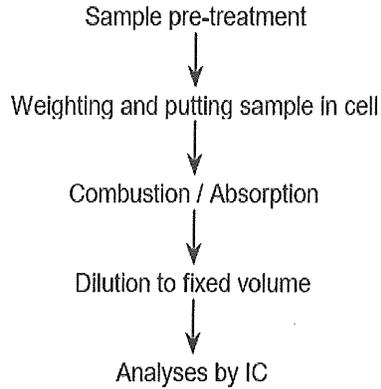


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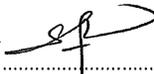
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DETERMINATION OF HALOGEN CONTENT



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Test Report Form No.: SGS/TR/CP/002, Ver. 1.0, Effective Date: 04/02/2021

*** End of test report ***

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TEST REPORT:

No. CPSA/250558102-CB77363

REPORTED DATE: 16 May 2025

REDRING SOLDER (M) SDN BHD

LOT 17486, JALAN 2,
TAMAN SELAYANG BARU, 68100 BATU CAVES,
SELANGOR, MALAYSIA.

The following sample(s) was/were submitted and identified by applicant as:

SAMPLE DESCRIPTION : PURE TIN SOLDER Sn
JOB REF. : C&P/2025-05-13-005
SAMPLE RECEIVED : 13 May 2025
TESTING PERIOD : 13 May 2025 to 15 May 2025

TEST REQUESTED : Selected test(s) as requested by customer
TEST METHOD : -PLEASE REFER TO NEXT PAGE(S)-
TEST RESULTS : -PLEASE REFER TO NEXT PAGE(S)-

SIGNED FOR AND ON BEHALF OF
SGS (MALAYSIA) SDN BHD


TAY SIAM PINE
TECHNICAL MANAGER



IKM No. M/3452/6047/11/12

Test Report Form No.: SGS/TR/CP/013, Ver: 6.0, Effective Date: 07/07/2021

Page 1 of 4

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SGS (Malaysia) Sdn.Bhd.
(Company No. 10871-T)

Lot 4, Persiaran Jubli Perak, Seksyen 22, 40300 Shah Alam, Selangor Darul Ehsan, Malaysia.
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Member of the SGS Group (SGS SA)

TEST REPORT:

No. CPSA/250558102-CB77363

REPORTED DATE: 16 May 2025

TEST RESULTS:

Test Part Description

Sample Description: -PLEASE REFER TO PAGE 1-

Test Parameter(s):	Unit	Test Method	Result	MDL
Beryllium (Be)	mg/kg	With reference to EPA Method 3052, and performed by ICP-OES.	N.D.	2
Antimony (Sb)	mg/kg	With reference to EPA Method 3052, and performed by ICP-OES.	N.D.	2

Note : (a) mg/kg = ppm ; ug/kg = ppb (0.01 mg/kg = 10 ug/kg); 0.1wt% = 1000ppm
 (b) N.D. = Not Detected
 (c) MDL = Method Detection Limit
 (d) Negative = Undetectable / Positive = Detectable

SIGNED FOR AND ON BEHALF OF
 SGS (MALAYSIA) SDN BHD


 TAY SIAM PINE
 TECHNICAL MANAGER
 IKM No. M/3452/6047/11/12



Test Report Form No.: SGS/TR/CP/013, Ver: 6.0, Effective Date: 07/07/2021

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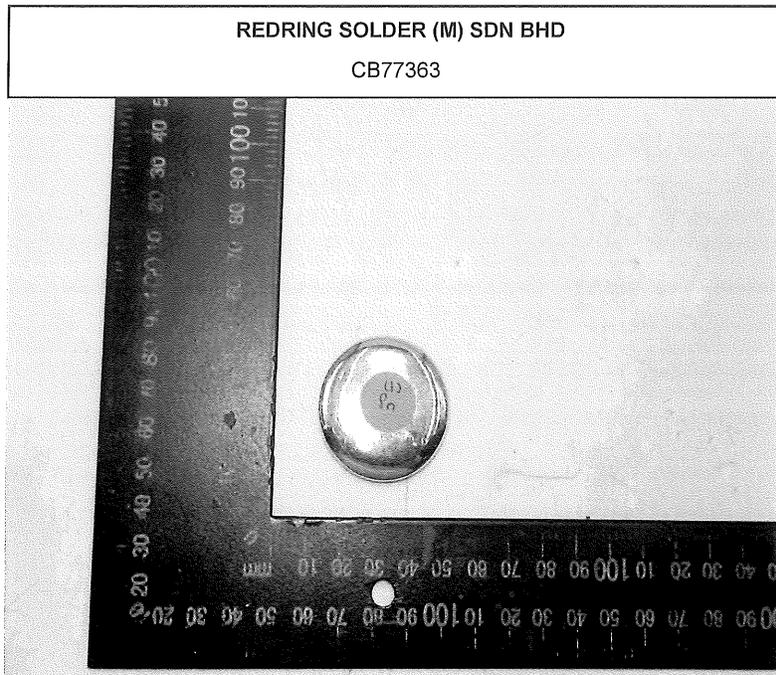
TEST REPORT:

No. CPSA/250558102-CB77363

REPORTED DATE: 16 May 2025

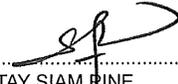
Test Part Description :

Sample Description: -PLEASE REFER TO PAGE 1-



SGS authenticate the photo on original report only

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SGS (MALAYSIA) SDN BHD


TAY SIAM PINE
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IKM No. M/3452/6047/11/12



Test Report Form No.: SGS/TR/CP/D13, Ver: 6.0, Effective Date: 07/07/2021

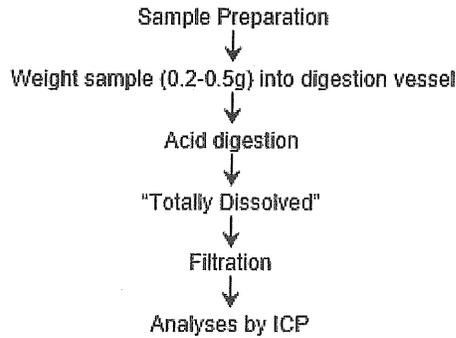
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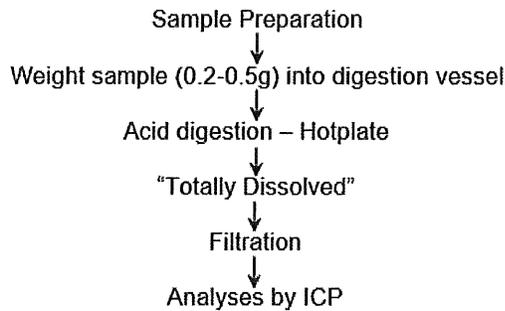
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**MICROWAVE ASSISTED ACID DIGESTION OF
SILICEOUS AND ORGANICALLY BASED METRICES
BY US EPA 3052**



ACID DIGESTION BY US EPA 3050B



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*** End of test report ***

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