



Regulatory and certification documents package

Regulatory Model Number: [STA020](#)

Series Name(s): [FireCuda520](#), [FireCuda510](#)

Internal Name: [E16 Dual-sided PCB](#)

<u>Date</u>	<u>Comments:</u>
September 18, 2019	Package generated.

Contents:

- Australia/New Zealand - RCM mark SDoC (Supplier Declaration of Conformity)
- Australia/New Zealand - CoT (Certificate of Test)
- Canada ICES - CoT (Certificate of Test)
- CB Certificate(s)
- CE DoC (Declaration of Conformity)
- CE EMC CoT (Certificate of Test)
- FCC SDoC
- FCC CoT (Certificate of Test)
- Korea RRL – Certificate
- Korea - CoT (Certificate of Test)
- UL/cUL safety
- TUV safety
- Taiwan BSMI certificate
- Taiwan CoT (Certificate of Test)
- VCCI CoT (Certificate of Test)



Supplier's Declaration of Conformity

Declaration of Conformity as a registered and responsible supplier under the Australian Communications and Media Authority (ACMA) regulatory arrangements for Regulatory Compliance Mark (RCM) and it's placement.

Responsible Supplier Name: Seagate Technology Australia Pty Ltd
Responsible Supplier Number: E806

Seagate Technology Australia Pty. Limited
Level 7, 91 Phillip St
PARRAMATTA NSW 2150
AUSTRALIA

Declare under our sole responsibility that the following product(s):

Seagate M.2 NVMe Solid State Drive

Model: STA020

to which this declaration relates is in conformity with the following standard(s):

Title

Test Regulation

Australian/New Zealand Standard

AS/NZS CISPR 32: 2015

(Name of the Authorized Person)

Sam Zavaglia

(Title of the Authorized Person)

Senior Field Applications Engineer

(Date of Issue)

29th August 2019

(Signature)

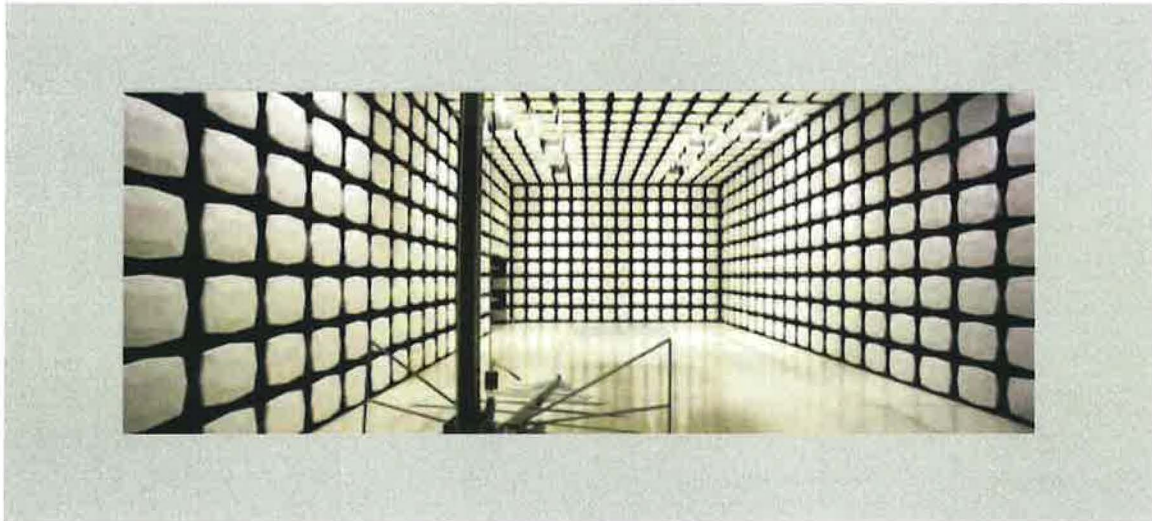


element

Seagate Technology LLC

Model STA020

Report # SEAG0231



NVLAP LAB CODE: 200881-0

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CERTIFICATE OF TEST



Last Date of Test: August 15, 2019
Seagate Technology LLC
Model STA020

Emissions

Standards

Specification	Method
AS/NZS CISPR 32:2015 Class B	AS/NZS CISPR 32:2015
EN 55032:2012/AC:2013 Class B	CISPR 32:2015
EN 61000-3-2:2014	IEC 61000-3-2:2018
EN 61000-3-3:2013	IEC 61000-3-3:2013 +A1:2017
FCC 15.107:2019 Class B FCC 15.109:2019 Class B FCC 15.109(g):2019 Class B ICES-003:2016 updated April 2017 Class B	ANSI C63.4:2014
VCCI-CISPR 32:2016 Class B	CISPR 32:2015

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	
Harmonic Current Emissions	Yes	Pass	
Voltage Fluctuations and Flicker	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Matt Nuernberg, Operations Manager

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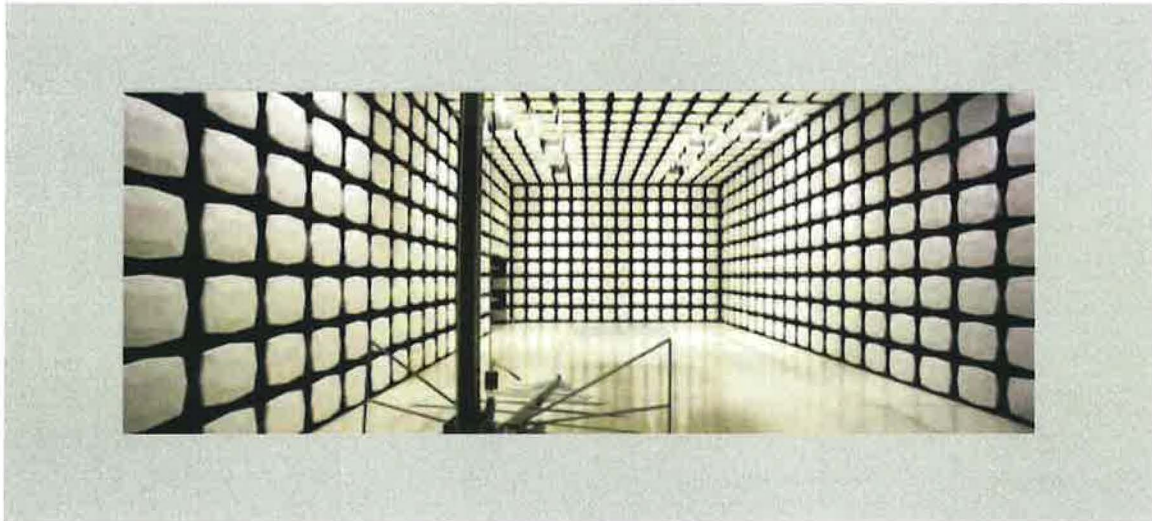


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Seagate Technology LLC

Model STA020

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CERTIFICATE OF TEST



Last Date of Test: August 15, 2019
Seagate Technology LLC
Model STA020

Emissions

Standards

Specification	Method
AS/NZS CISPR 32:2015 Class B	AS/NZS CISPR 32:2015
EN 55032:2012/AC:2013 Class B	CISPR 32:2015
EN 61000-3-2:2014	IEC 61000-3-2:2018
EN 61000-3-3:2013	IEC 61000-3-3:2013 +A1:2017
FCC 15.107:2019 Class B FCC 15.109:2019 Class B FCC 15.109(g):2019 Class B ICES-003:2016 updated April 2017 Class B	ANSI C63.4:2014
VCCI-CISPR 32:2016 Class B	CISPR 32:2015

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	
Harmonic Current Emissions	Yes	Pass	
Voltage Fluctuations and Flicker	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Matt Nuernberg, Operations Manager

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Ref. Certif. No.

DE 3 - 503380

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

Name and address of the applicant

Name and address of the manufacturer

Name and address of the factory

Ratings and principal characteristics

Trade mark (if any)

Customer's Testing Facility (CTF) Stage used

Model/type Ref.

A sample of the product was tested and found to be in conformity with

as shown in the Test Report Ref. No. which forms part of this certificate

Disk drives

Seagate Technology LLC

1280 Disc Drive
Shakopee, MN 55379-1863
USA

Seagate Technology LLC
1280 Disc Drive, Shakopee, MN 55379-1863, USA

CAL-COMP Electronics (Thailand) Co. Ltd.
60 Moo, 8 Sethakij Road, Klong Maduea, Kratoom Bean,
Samuthsakorn 74110, THAILAND

Netronix, Inc.
No. 945, Boai Street, 30265 Jubei City, Hsinchu, TAIWAN

Rated Input Voltage: +3.3Vdc
Rated Frequency: dc
Rated Input Current: STA019 1.2A
STA020 1.55A
Protection Class: III
Degree of Protection: IPX0

Seagate

CTF STAGE 2

STA019 and STA020

IEC 60950-1:2005
IEC 60950-1:2005/AMD1:2009
IEC 60950-1:2005/AMD2:2013

092-72152145A-000

This CB Test Certificate is issued by the National Certification Body

CB 041780 0695 Rev. 00
Date, 2019-09-12

(Adrian Rabago Valenzuela)



Product Service

Page 1 of 1
TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

Disk drives

Name and address of the applicant

Seagate Technology LLC
1280 Disc Drive
Shakopee, MN 55379-1863
USA

Name and address of the manufacturer

Seagate Technology LLC
1280 Disc Drive, Shakopee, MN 55379-1863, USA

Name and address of the factory

CAL-COMP Electronics (Thailand) Co. Ltd.
60 Moo, 8 Sethakij Road, Klong Maduea, Kratoom Bean,
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Ratings and principal characteristics

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No. 945, Boai Street, 30265 Jubei City, Hsinchu, TAIWAN

Rated Input Voltage: +3.3Vdc
Rated Frequency: dc
Rated Input Current: STA019 1.2A
STA020 1.55A

Protection Class: III
Degree of Protection: IPX0

Trade mark (if any)

Seagate

Customer's Testing Facility (CTF) Stage used

CTF STAGE 2

Model/type Ref.

STA019 and STA020

A sample of the product was tested and found to be in conformity with as shown in the Test Report Ref. No. which forms part of this certificate

IEC 62368-1:2014
092-72152145B-000

This CB Test Certificate is issued by the National Certification Body

CB 041780 0696 Rev. 00
Date, 2019-09-12Page 1 of 1
TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

Product Service



EU Declaration of Conformity

Product Safety and EMC Compliance

The product(s) meets the requirements of The Electromagnetic Compatibility (EMC) Directive 2014/30/EU by application of the following standards:

<u>EN 55032:2012</u>	Electromagnetic compatibility of multimedia equipment — Emission requirements – class B.
<u>EN55024:2010</u>	Information Technology Equipment – Immunity Characteristics – Limits and Methods of Measurement
<u>EN61000-3-2:2014</u>	Limits for Harmonic Current Emissions (Equipment Input Current ≤ 16 Amps Per Phase)
<u>EN61000-3-3:2013</u>	Limitation of Voltage Changes, Voltage Fluctuations and Flicker in Low-Voltage Supply Systems for Equipment with Rated Current ≤ 16 Amps Per Phase

The product(s) meets the requirements of The Low Voltage Directive (LVD) 2014/35/EU by application of the following standards:

<u>EN 62368-1:2014</u>	Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, Modified)
<u>EN 60950-1:2006 /A11:2009 /A1:2010 /A12:2011/A2:2013</u>	Information Technology Equipment - Safety- (Second Edition) Part 1: General Requirements

Product Environmental Compliance, EU/China RoHS Declaration of Conformity

Conformity with Harmonized Standards/Technical Specifications:

- Directive 2011/65/EU RoHS “Recast” (RoHS 2) as amended by Directive (EU) 2015/863 and further amended by Directive 2018/739 and Directive 2018/740
EN 50581:2012
- Management Methods for Controlling Pollution by Electronic Information Products, Ministry of Information Industry Order No. 39 (China RoHS)
- Management Methods for the Restriction of the Use of Hazardous Substances in electrical and Electronic Products, Ministry of Industry and Information Technology Order No. 32 effective July 1, 2016 (China RoHS 2)
- Joint JEDEC/ECA Standard, Definition of “Low-Halogen” for Electronic Products, JS709B

Seagate products rely on the following RoHS 2 exemptions for compliance:

6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanized steel components containing up to 0.2% lead by weight
6(b)-II	Lead as an alloying element in aluminum for machining purposes up to 0.4% lead by weight
6c	Copper alloy up to 0.4% lead by weight
7a	Lead in high melting temperature type solders (i.e. lead-based solder alloys containing 85 % by weight or more lead
7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (e.g. piezoelectronic devices) or in a glass or ceramic matrix compound

Due Diligence

For parts and materials in Seagate products procured from external suppliers, we rely on the representations of our suppliers regarding the presence of RoHS 2 substances in these parts and materials. Our supplier contracts require compliance with our chemical substance restrictions, and our suppliers document their compliance with our requirements by providing material content declarations for all parts and materials for Seagate products. Current supplier declarations include disclosure of any substances regulated by RoHS 2 in such parts or materials.

Seagate also has internal systems in place to ensure ongoing compliance and all laws and regulations. These systems include standard operating procedures that ensure that product safety, EMC and environmental compliance requirements are followed, and an internal auditing process to ensure compliance with all standard operating procedures.

Year to Begin Affixing Mark: 2019

Manufacturer's Name: Seagate Technology, LLC
**Manufacturer's Address:
(And Importer)** 10200 South De Anza Blvd.
Cupertino, California 95014-3029 U.S.A.
European Contact: Director of Operations
Seagate Technology (Netherlands) B.V.
Tupolevlaan 105,
1119 PA Schiphol – Rijk,
The Netherlands

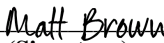
Type of Equipment: Solid State Drive
Product Name: FireCuda

Regulatory Model Number(s): STA020

Seagate Models: **FireCuda 510 SSD**
ZP500GM30001
ZP1000GM30001
ZP2000GM30001
FireCuda 520 SSD
ZP500GM30002
ZP1000GM30002
ZP2000GM30002

This product or products are in conformity with the relevant Union harmonization legislation. This declaration of conformity is issued under the sole responsibility of Seagate Technology LLC.

Date: September 13, 2019 | 14:00:24 PDT

DocuSigned by:

(Signature)
134C27337AEB4C5...

Matthew C. Brown
Vice President
Operations and Technology

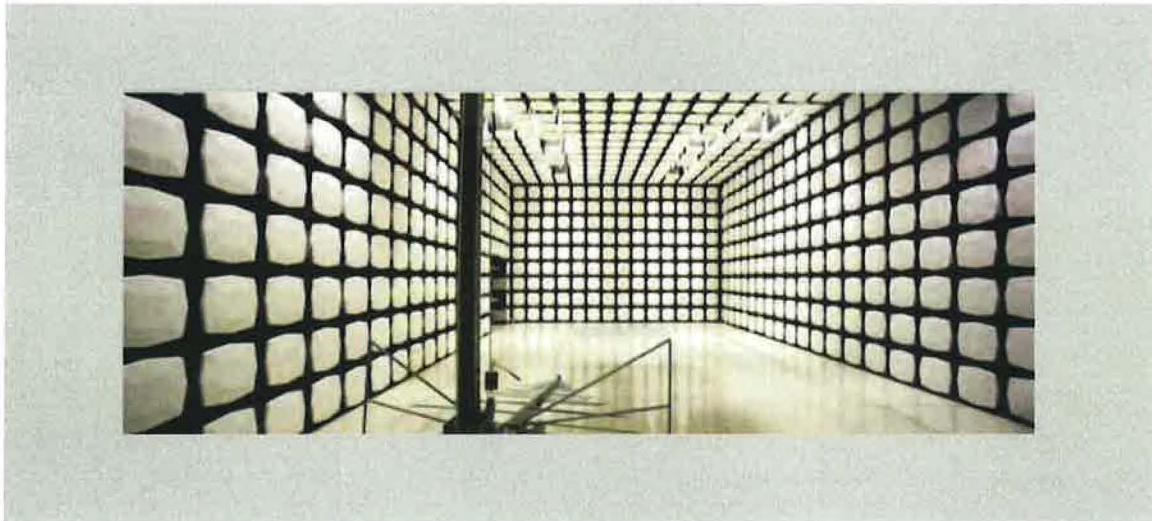


element

Seagate Technology LLC

Model STA020

Report # SEAG0231



NVLAP LAB CODE: 200881-0

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CERTIFICATE OF TEST



Last Date of Test: August 15, 2019
Seagate Technology LLC
Model STA020

Emissions

Standards

Specification	Method
AS/NZS CISPR 32:2015 Class B	AS/NZS CISPR 32:2015
EN 55032:2012/AC:2013 Class B	CISPR 32:2015
EN 61000-3-2:2014	IEC 61000-3-2:2018
EN 61000-3-3:2013	IEC 61000-3-3:2013 +A1:2017
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VCCI-CISPR 32:2016 Class B	CISPR 32:2015

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	
Harmonic Current Emissions	Yes	Pass	
Voltage Fluctuations and Flicker	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Matt Nuernberg, Operations Manager

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CERTIFICATE OF TEST



Last Date of Test: August 15, 2019
 Seagate Technology LLC
 Model STA020

Immunity

Standards

Specification	Method
EN 55024:2010	IEC 61000-4-2:2008
	IEC 61000-4-3:2010
	IEC 61000-4-4:2012
	IEC 61000-4-5:2014 +A1:2017
	IEC 61000-4-6:2013
	IEC 61000-4-8:2009
	IEC 61000-4-11:2004 + A1:2017

Results

Test Description	Performance Criteria			Comments
	Applied	Standard Specified	Observed Criteria	
Electrostatic Discharge (ESD)	Yes	B	A	
Radiated Immunity	Yes	A	A	
Electrical Fast Transients and Bursts (EFT)	Yes	B	A	
Surge	Yes	B	A	
Conducted Immunity	Yes	A	A	
Magnetic Field Immunity	Yes	A	A	
Voltage Interruptions	Yes	C	C	
Voltage Dips	Yes	B/C	A/C	

Details on the application of the performance criteria, as well as any manufacturer provided performance criteria or acceptable degradation of performance, are all contained within the report.

Deviations From Test Standards

None

Approved By:

Matt Nuernberg, Operations Manager

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Declaration of Conformity

Standards to which conformity is declared:

FCC Part 15B

47 CFR FCC Part 15B: 2019 (Class B)
Information Technology Equipment (ITE) - Limits
and methods of measurement

Manufacturer Name: Seagate Technology LLC
Manufacturer Address: 10200 South DeAnza Boulevard
(And Importer) Cupertino California 95014

Type of Equipment : Solid State Device

Product Model Number : STA020

Seagate Technology LLC hereby declares that the equipment specified above conforms with the protection requirements of the above named Directive(s) and Standards.

Location: Minnesota, USA

A handwritten signature in blue ink, appearing to read 'Gary A. Stigsell'. Below the signature is the word '(Signature)' in a smaller font.

(Signature)

Certificate Date: 12 Sept, 2019

Gary A. Stigsell
(Full Printed Name)
Sr Project/Program Manager
(position)
952-402-2544
(Phone)

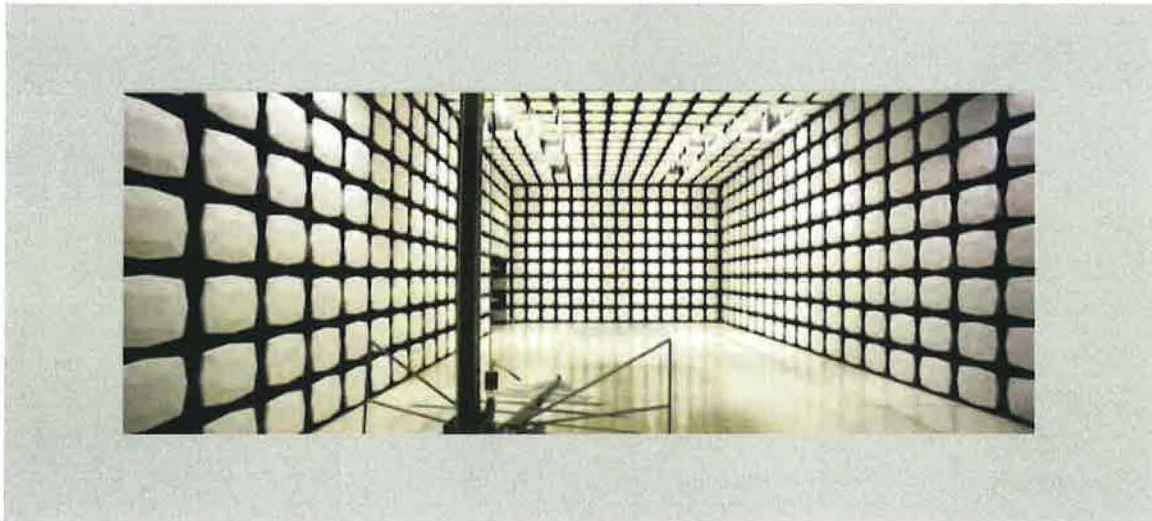


element

Seagate Technology LLC

Model STA020

Report # SEAG0231



NVLAP LAB CODE: 200881-0

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CERTIFICATE OF TEST



Last Date of Test: August 15, 2019
Seagate Technology LLC
Model STA020

Emissions

Standards

Specification	Method
AS/NZS CISPR 32:2015 Class B	AS/NZS CISPR 32:2015
EN 55032:2012/AC:2013 Class B	CISPR 32:2015
EN 61000-3-2:2014	IEC 61000-3-2:2018
EN 61000-3-3:2013	IEC 61000-3-3:2013 +A1:2017
FCC 15.107:2019 Class B FCC 15.109:2019 Class B FCC 15.109(g):2019 Class B	ANSI C63.4:2014
ICES-003:2016 updated April 2017 Class B	
VCCI-CISPR 32:2016 Class B	CISPR 32:2015

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	
Harmonic Current Emissions	Yes	Pass	
Voltage Fluctuations and Flicker	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Matt Nuernberg, Operations Manager

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방송통신기자재등의 적합등록 필증

Registration of Broadcasting and Communication Equipments

상호 또는 성명 Trade Name or Registrant	SEAGATE TECHNOLOGY LLC
기자재명칭(제품명칭) Equipment Name	Solid State Drive
기본모델명 Basic Model Number	STA020
파생모델명 Series Model Number	ZP500GM30002, ZP2000GM30001, ZP500GM30001, ZP1000GM30002, ZP1000GM30001, ZP2000GM30002
등록번호 Registration No.	R-R-STX-STA020
제조사/제조(조립)국가 Manufacturer/Country of Origin	SEAGATE TECHNOLOGY LLC / 태국, 대만
등록연월일 Date of Registration	2019-08-28
기타 Others	

위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다.

It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2019년(Year) 08월(Month) 28일(Day)

국립전파연구원장



Director General of National Radio Research Agency



※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다.
위반시 과태료 처분 및 등록이 취소될 수 있습니다.



Report No. SEAG0231.1

NRRA Notice 2018-128 (2018.12.24) Test Method for Electromagnetic Compatibility

Applicant Information	Applicant:	Seagate Technology LLC	
	Address:	1280 Disc Drive Shakopee, MN 55379	
	Contact Name:	Curt Propson	
Product Information	Equipment Name:	Solid State Drive	
	Model Name:	STA020	
	KCC ID Number	R-R-STX-STA020	
	Manufacturer:	Seagate Technology LLC	
	Manufacturer Address:	1280 Disc Drive Shakopee, MN 55379	
	Origin Country:	Thailand and Taiwan	
Date(s) of testing		2019-08-12, 2019-08-13, 2019-08-14, 2019-08-15	
Equipment Class		<input type="checkbox"/> Class A	<input checked="" type="checkbox"/> Class B
Test Results		<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL
Lab Performing the Tests	Element Materials Technology Brooklyn Park Lab 9349 W Broadway Ave. Brooklyn Park, MN 55445 612-638-5136 888-364-2378		

	
Test Technicians: Marcelo Aguayo	Operations Manager: Matt Nuernberg

CERTIFICATE OF TEST



Last Date of Test: August 15, 2019
Seagate Technology LLC
Model STA020

Emissions

Standards

Specification	Method
KN 32 Class B	KN 32

Technical Requirements for Electromagnetic Compatibility: NRRRA Notice 2018-29 (2018.12.24)
Test Methods for Electromagnetic Compatibility: NRRRA Notice 2018-128 (2018.12.24)
Notice regarding Conformity Evaluation of Broadcasting and Communication Equipment: NRRRA Notice 2018-17 (2018.8.17)

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Matt Nuernberg, Operations Manager

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CERTIFICATE OF TEST



Last Date of Test: August 15, 2019
 Seagate Technology LLC
 Model STA020

Immunity

Standards

Specification	Method
KN 35	KN 61000-4-2
	KN 61000-4-3
	KN 61000-4-4
	KN 61000-4-5
	KN 61000-4-6
	KN 61000-4-8
	KN 61000-4-11

Technical Requirements for Electromagnetic Compatibility: NRRA Notice 2018-29 (2018.12.24)
 Test Methods for Electromagnetic Compatibility: NRRA Notice 2018-128 (2018.12.24)
 Notice regarding Conformity Evaluation of Broadcasting and Communication Equipment: NRRA Notice 2018-17 (2018.8.17)

Results

Test Description	Performance Criteria			Comments
	Applied	Standard Specified	Observed Criteria	
Electrostatic Discharge (ESD)	Yes	B	A	
Radiated Immunity	Yes	A	A	
Electrical Fast Transients and Bursts (EFT)	Yes	B	B	
Surge	Yes	B	A	
Conducted Immunity	Yes	A	A	
Magnetic Field Immunity	Yes	A	A	
Voltage Interruptions	Yes	C	C	
Voltage Dips	Yes	B/C	A/A	

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Deviations From Test Standards

None

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Matt Nuernberg, Operations Manager

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CERTIFICATE OF COMPLIANCE

Certificate Number 20190917-E145123
Report Reference E145123-A57-UL
Issue Date 2019-September-17

Issued to: SEAGATE TECHNOLOGY L L C
1280 DISC DR
SHAKOPEE MN 55379-1863

**This certificate confirms that
representative samples of**

COMPONENT - INFORMATION TECHNOLOGY EQUIPMENT
INCLUDING ELECTRICAL BUSINESS EQUIPMENT
COMPONENT - AUDIO/VIDEO, INFORMATION AND
COMMUNICATION TECHNOLOGY EQUIPMENT
Solid State Drive- STA019, STA020

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.


Standard(s) for Safety: UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07-
Information Technology Equipment - Safety - Part 1:
General Requirements

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



CERTIFICATE OF COMPLIANCE

Certificate Number 20190917-E145123
Report Reference E145123-A6005-UL
Issue Date 2019-September-17

Issued to: SEAGATE TECHNOLOGY L L C
1280 DISC DR
SHAKOPEE MN 55379-1863

**This certificate confirms that
representative samples of**

COMPONENT - AUDIO/VIDEO, INFORMATION AND
COMMUNICATION TECHNOLOGY EQUIPMENT
COMPONENT - INFORMATION TECHNOLOGY
EQUIPMENT INCLUDING ELECTRICAL BUSINESS
EQUIPMENT
Solid State Drive-STA019, STA020

Have been investigated by UL in accordance with the
component requirements in the Standard(s) indicated on
this Certificate. UL Recognized components are incomplete
in certain constructional features or restricted in
performance capabilities and are intended for installation in
complete equipment submitted for investigation to UL LLC.


Standard(s) for Safety: UL 62368-1 and CAN/CSA C22.2 No. 62368-1-14-
Audio/video, information and communication technology
equipment Part 1: Safety requirements

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified
and covered under UL's Follow-Up Services.

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UL LLC

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contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>





Product Service



CERTIFICATE

No. B 041780 0691 Rev. 00

Holder of Certificate: Seagate Technology LLC

1280 Disc Drive
Shakopee, MN 55379-1863
USA

Certification Mark:



Product:

Disk drives

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 092-72123961-200

Valid until: 2020-12-20

Date, 2019-09-13 (Adrian Rabago Valenzuela)



Product Service

CERTIFICATE

No. B 041780 0691 Rev. 00

Model(s): **Regulatory Models: STA002, STA018, STA019, STA020, STA021**

Parameters:

Rated Input Voltage:	+5Vdc, +3.3Vdc
Rated Frequency:	dc
Rated Input Current:	
STA002:	1.10A
STA018:	0.20A
STA019:	1.2A
STA020:	1.55A
STA021:	0.30A
Protection Class:	III
Degree of Protection:	IPX0

Model Differences:

Regulatory Model Number STA002:

- * 1TB, SATA interface, 1024 MB cache
- 512GB, SATA interface, 512 MB cache
- 256GB, SATA interface, 256 MB cache
- 128GB, SATA interface, 256 MB cache (possible future configuration)

Regulatory Model Number STA018

960GB, SATA interface, 2.5"

Regulatory Model Number STA019

- * 1000 GigaByte, NVMe Interface, PCIe Gen 3x4, 512E format
- 500 GigaByte, NVMe Interface, PCIe Gen 3x4, 512E format
- 250 GigaByte, NVMe Interface, PCIe Gen 3x4, 512E format

Regulatory Model Number STA020

- * 2000 GigaByte, NVMe Interface, PCIe Gen 4x4, 512E format
- 1000 GigaByte, NVMe Interface, PCIe Gen 4x4, 512E format
- 500 GigaByte, NVMe Interface, PCIe Gen 4x4, 512E format

Regulatory Model Number STA021

- * 2000 GigaByte, Serial-ATA interface
- 1000 GigaByte, SATA Interface
- 500 GigaByte, SATA Interface
- 250 GigaByte, SATA Interface

* = Indicates configuration tested

TUV SÜD CERTIFICATE ◆ CERTIFICADO ◆ CERTИФИКАТ ◆ 認證證書 ◆ CERTIFICATE ◆ CERTIFIKAT ◆ CERTIFICAT



Product Service

CERTIFICATE

No. B 041780 0691 Rev. 00

Conditions of Acceptability:

1. Disc drives are to be supplied by a reliably SELV power supply.
2. Suitable enclosure (fire/mechanical) to be provided/evaluated when disc drive is installed in the end use product.
3. Drives were evaluated at maximum ambient (55°C) determined by Seagate specification. Seagate specification also states, a maximum allowable drive case temperature of 60°C. This specification was exceeded during testing.
4. External fan was part of test fixture to maintain recommended case temperature during testing. Additional cooling is recommended as part of end use configuration to maintain recommended operating case temperature at specific airflow.

Tested according to: EN 60950-1:2006/A2:2013

Production Facility(ies): 096583, 028752

TUV SUD TÜV SÜD
ZERTIFIKAT ◆ **CERTIFICATE** ◆ **認證證書** ◆ **CERTIFICADO** ◆ **CERTIFICAT**



Product Service

CERTIFICATE

No. B 041780 0692 Rev. 00

Holder of Certificate: Seagate Technology LLC

1280 Disc Drive
 Shakopee, MN 55379-1863
 USA

Certification Mark:



Product: Disk drives
 Solid State Drive

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 092-72144195-200

Valid until: 2020-12-20

Date, 2019-09-13 (Adrian Rabago Valenzuela)



Product Service

CERTIFICATE

No. B 041780 0692 Rev. 00

Model(s): Regulatory Models: STA002, STA012, STA018, STA019, STA020, STA021

Parameters:

Rated Input Voltage:	+5Vdc, +3.3Vdc
Rated Frequency:	dc
Rated Input Current:	
STA002, STA012:	1.10A
STA018:	0.20A
STA019:	1.2A
STA020:	1.55A
STA021:	0.30A
Protection Class:	III
Degree of Protection:	IPX0

Conditions of Acceptability:

1. Solid state drives are to be supplied by a reliably SELV power supply.
2. Suitable enclosure (fire/mechanical) to be provided/evaluated when drive is installed in the end use product.
3. Proper air flow should be considered in the end use product to limit maximum case temperature to 60°C. Testing was conducted with a 40 CFM fan.

Tested according to: EN 62368-1:2014/A11:2017

Production Facility(ies): 028752, 096583

TUV SUD
 ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFIKAT ◆ CERTIFICADO ◆ CERTIFICAT

A8 / 07.17

符合性聲明書
Declaration of Conformity

報驗義務人代碼 Code of the applicant	編 號 Number
D33027	091320191510

本符合性聲明書應依商品檢驗法規定備齊相關技術文件後始得簽具
Please check all the related technical documents in accordance with the Commodity Inspection Act before signing the form.

報驗義務人：台灣希捷科技股份有限公司(Seagate Technology Taiwan, Ltd.)

Obligatory Applicant

地址：臺北市松山區復興北路 363 號 14 樓 B 室
Address

電話：886-2-2514-2273
Telephone

商品中 (英) 文名稱：固態磁碟機 SSD
Commodity Name

商品型式 (或型號)：STA020: ZP500GM30001, ZP1000GM30001, ZP2000GM30001, ZP500GM30002,
Commodity Type (Model) ZP1000GM30002, ZP2000GM30002

符合之檢驗標準及版次：CNS 13438/ Complete 2006 Class B/ Section 5 "Marking of presence" of CNS 15663 2013.7)

Standard(s) and version

試驗報告編號：SEAG0231.2 (EMC)/ ATS/GENV/288/19/yao
Test Report Number

試驗室名稱及代號：Element Materials Technology (EMC)/ ALS Laboratory Group (RoHS)
Testing laboratory name and designation number

SL2-IN-E-1152R

符合性聲明檢驗標識及識別號碼：
The form of the DoC marking appears like this



D33027
RoHS

或
or



D33027
RoHS

茲聲明上述商品符合商品檢驗法符合性聲明之規定，若因違反本聲明書所聲明之內容，願意擔負相關法律責任。

I hereby declare that the listed commodity conforms to Declaration of Conformity requirements stipulated in the Commodity Inspection Act. I agree to take any legal obligations should violations against the Declaration of Conformity occur.

報驗義務人：台灣希捷科技股份有限公司/ Lai Chun Cheong (簽章)

Obligatory Applicant The Board Chairman of Seagate Technology Taiwan (Signature)

中 華 民 國 108 年 09 月 13 日
DATE (year) (month) (day)



element

Seagate Technology LLC

Model STA020

ZP500GM30001
ZP1000GM30001
ZP2000GM30001
ZP500GM30002
ZP1000GM30002
ZP2000GM30002

Report # SEAG0231.2



NVLAP LAB CODE: 200881-0

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CERTIFICATE OF TEST



Last Date of Test: August 14, 2019
Seagate Technology LLC
Model STA020

Emissions

Standards

Specification	Method
CNS 13438:2006 (Complete) Class B	CNS 13438:2006 (Complete)

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Matt Nuernberg, Operations Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.

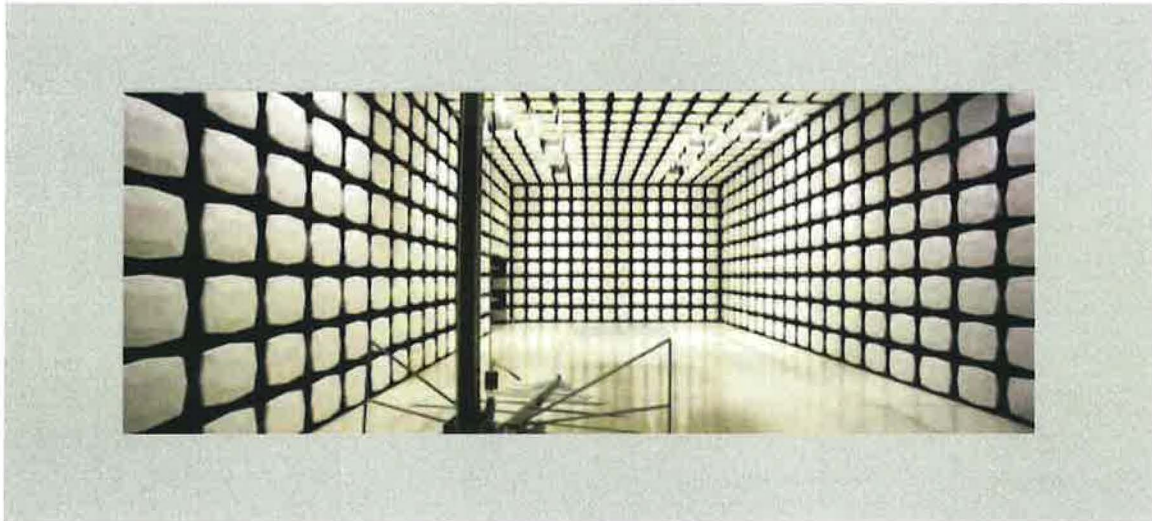


element

Seagate Technology LLC

Model STA020

Report # SEAG0231



NVLAP LAB CODE: 200881-0

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CERTIFICATE OF TEST



Last Date of Test: August 15, 2019
Seagate Technology LLC
Model STA020

Emissions

Standards

Specification	Method
AS/NZS CISPR 32:2015 Class B	AS/NZS CISPR 32:2015
EN 55032:2012/AC:2013 Class B	CISPR 32:2015
EN 61000-3-2:2014	IEC 61000-3-2:2018
EN 61000-3-3:2013	IEC 61000-3-3:2013 +A1:2017
FCC 15.107:2019 Class B FCC 15.109:2019 Class B FCC 15.109(g):2019 Class B ICES-003:2016 updated April 2017 Class B	ANSI C63.4:2014
VCCI-CISPR 32:2016 Class B	CISPR 32:2015

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	
Harmonic Current Emissions	Yes	Pass	
Voltage Fluctuations and Flicker	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Matt Nuernberg, Operations Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.