



Regulatory and Certification documents package

Regulatory Model Number: [STA028](#)

Series Name(s): [FireCuda 515 SSD & FireCuda 520 SSD](#)

Internal Name: [E21T](#)

<u>Date</u>	<u>Comments:</u>
Jun 22, 2022	Package generated.
Oct 06, 2022	Declaration of similarity
Oct 21, 2022	Updated Declaration of similarity

Contents:

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Author: Regulatory Assurance



Regulatory Model Number (RMN) STA028

Statement of Similarity

Tested model
ZP2000GV30001

Models added by Similarity
FireCuda 515 SSD
ZP250GV30001
ZP500GV30001
ZP1000GV30001
ZP2000GV30001

FireCuda 520 SSD
ZP500GV30012
ZP1000GV30012
ZP2000GV30012
ZP500GV3A012
ZP1000GV3A012
ZP2000GV3A012

The regulatory model number, STA028 is both single- and double-sided M.2 2280 form factor, Gen 4 Solid State Drive architected with an NVMe (Non-Volatile Memory express) interface for enterprise applications. It utilizes the M.2 platform with an NVMe slot when available or be used in a PCI-e slot with adapter. This drive will be offered in the various capacities, 2000, 1000, 500, 250 GBs. It will be offered in various endurance options. Format size will be 512E only. All models, regardless of capacity, endurance and features, are physically and electrically identical.

DocuSigned by:

A handwritten signature in black ink that reads 'Ken Allen'.

807478020779420

Ken Allen
Vice President
Operations Products and Technology

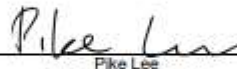


VERIFICATION OF COMPLIANCE

This is to certify that the product listed below was (were) tested in the BTL EMC Laboratory to comply with the criteria limits Class B of conducted and radiated emissions of the Technical Standards ICES-003, established by the Innovation, Science and Economic Development Canada.

Equipment	FireCuda 515 SSD
Model Name	STA028, ZP250GV30001, ZP500GV30001, ZP1000GV30001, ZP2000GV30001
Brand Name	Seagate
Applicant	Seagate Technology LLC
Address	389 Disk Drive Longmont, CO 80503 USA
Standard(s)	ICES-003, Issue 7, October 2020 ANSI C63.4-2014
Report(s)	BTL-ISEDE-1-2201T133

The test data, data evaluation, and equipment configuration contained in our test report(s) above was (were) obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO/IEC 17025 quality assessment standard and technical standard(s). The test data contained in the referenced test report relate only to the EUT sample and item(s) tested.



Pike Lee
Authorized Signatory



BTL INC.

No.18, Ln. 171, Sec. 2, Jizong Rd.,
Neihu Dist., Taipei City 114, Taiwan
TEL:+886-2-2657-3299
FAX:+886-2-2657-3331





EU DECLARATION OF CONFORMITY

TYPE OF EQUIPMENT: Solid State Drive
REGULATORY MODEL: STA028
PRODUCT NAME (Internal): FireCuda 515 SSD
SEAGATE MODELS: ZP250GV30001, ZP500GV30001, ZP1000GV30001, ZP2000GV30001
MARKETING NAME:
TRADE/BRAND NAME: Seagate

I. Product Safety and EMC Compliance

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

EN 55032:2015	Electromagnetic compatibility of multimedia equipment — Emission requirements.
EN 55035:2017	Information technology equipment – Immunity characteristics – Limits and methods of measurement.
EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits for harmonic current emissions (equipment input current \leq 16 A per phase).
EN 61000-3-3:2013	Electromagnetic compatibility (EMC) - Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current \leq 16 A per phase.

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

EN 60950-1:2006 /A11:2009 /A1:2010 A12:2011/A2:2013	Information Technology Equipment - Safety- (Second Edition) Part 1: General Requirements
EN 62368-1:2014/A11:2017	Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, Modified)

II. Product Environmental Compliance (EU/China)

- A. The product(s) meets the requirements of the 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 and by application of the following standards:

EN IEC 63000:2018	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.
EN 62321-6:2015	Determination of certain substances in electrotechnical products. Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography-mass spectrometry (GC-MS).

China RoHS	Management Methods for Controlling Pollution by Electronic Information Products, Ministry of Information Industry Order No. 39 (China RoHS)
China RoHS 2	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)

B. 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 galvanised 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
6(c)	Copper alloy up to 4% lead by weight
7(a)	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. piezoelectric devices) or in a glass or ceramic matrix compound

III. Due Diligence

- A. 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.
- B. 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: 2022

Manufacturer's Name: Seagate Technology, LLC

Manufacturer's Address: 47488 Kato Road
Fremont, California 94538, U.S.A

European Contact: Seagate Technology (Netherlands) B.V.
Tupolevlaan 105
1119 PA Schiphol – Rijk
The Netherlands

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 of Issue: June 28, 2022

Signature: _____

Ken Allen
Vice President of Operations, Products and
Technology



Declaration of Conformity

According to FCC 47 CFR Part 15 of the FCC Rules, and ICES-003.

For the following product:

Internal Product Name: FireCuda 515 SSD
Brand Name: Seagate
Regulatory Model Number: STA028
Seagate internal Model Number: ZP250GV30001, ZP500GV30001, ZP1000GV30001, ZP2000GV30001

We hereby declare:

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003, Issue 7

Standards:

FCC 47 CFR Part 15, Subpart B, Class B (U.S.A, FCC)
ICES-003, Issue 7, Class B (Canada)

Test report: BTL-ISEDE-1-2201T133

Responsible Party for Compliance:

Seagate Technology LLC
47488 Kato Road, Fremont, CA 94538
United States of America

Ken Allen
Vice President of Operations, Products and Technology
Date: June 28, 2022



VERIFICATION OF COMPLIANCE

This is to certify that the product listed below was (were) tested in the BTL EMC Laboratory to comply with the required criteria levels of the follow-mentioned Generic Standards or Product Family Standard(s) and/or Basic Standard(s) based on the essential conformity requirements of EMC Directive 2014/30/EU.

Equipment FireCuda 515 SSD
Model Name STA028, ZP250GV30001, ZP500GV30001, ZP1000GV30001, ZP2000GV30001
Brand Name Seagate
Applicant Seagate Technology LLC
Address 389 Disk Drive Longmont, CO 80503 USA

Standard(s) EN 55032:2015+A11:2020 Class B
AS/NZS CISPR 32:2015 Class B
CISPR 32:2015+COR1:2016 Class B
EN IEC 61000-3-2:2019+A1:2021 Class D
EN 61000-3-3:2013+A1:2019
EN 55024:2010+A1:2015
EN 55035:2017+A11:2020

Report(s) BTL-EMC-1-2201T133

The test data, data evaluation, and equipment configuration contained in our test report(s) above was (were) obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO/IEC 17025 quality assessment standard and technical standard(s). The test data contained in the referenced test report relate only to the EUT sample and item(s) tested.

Pike Lee

Authorized Signatory



BTL INC.

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CE EMC Test Report

Report No. : BTL-EMC-1-2201T133
Equipment : FireCuda 515 SSD
Model Name : STA028, ZP250GV30001, ZP500GV30001, ZP1000GV30001, ZP2000GV30001
Brand Name : Seagate
Applicant : Seagate Technology LLC
Address : 389 Disk Drive Longmont, CO 80503 USA

Standard(s) : EN 55032:2015+A11:2020 Class B
AS/NZS CISPR 32:2015 Class B
CISPR 32:2015+COR1:2016 Class B
EN IEC 61000-3-2:2019+A1:2021 Class D
EN 61000-3-3:2013+A1:2019
EN 55024:2010+A1:2015
EN 55035:2017+A11:2020

Date of Receipt : 2022/1/27
Date of Test : 2022/1/27 ~ 2022/3/1
Issued Date : 2022/4/28

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by : Jack Kao
Jack Kao, Engineer

Approved by : Pike Lee
Pike Lee, Senior Manager



BTL Inc.
No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan
Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com

FCC EMC Test Report

Report No. : BTL-FCCE-1-2201T133
Equipment : FireCuda 515 SSD
Model Name : STA028, ZP250GV30001, ZP500GV30001, ZP1000GV30001, ZP2000GV30001
Brand Name : Seagate
Applicant : Seagate Technology LLC
Address : 389 Disk Drive Longmont, CO 80503 USA

FCC Rule Part(s) : FCC CFR Title 47, Part 15, Subpart B, Class B
Measurement : ANSI C63.4-2014
Procedure(s)

Date of Receipt : 2022/1/27
Date of Test : 2022/1/27 - 2022/3/1
Issued Date : 2022/4/28

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by

: Jack Kao
Jack Kao, Engineer

Approved by

: Pike Lee
Pike Lee, Senior Manager



BTL Inc.

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Web: www.newbtl.com

방송통신기자재등의 적합등록 필증 <i>Registration of Broadcasting and Communication Equipments</i>	
상호 또는 설명 <i>Trade Name or Registrant</i>	SEAGATE TECHNOLOGY LLC
기자재명칭(제품명칭) <i>Equipment Name</i>	FireCuda 515 SSD
기기부호/추가기기부호 <i>Equipment code /Additional Equipment code</i>	IMI
기본모델명 <i>Basic Model Number</i>	STA028
파생모델명 <i>Series Model Number</i>	ZP500GV30001, ZP2000GV30001, ZP1000GV30001, ZP250GV30001
등록번호 <i>Registration No.</i>	R-R-STX-STA028
제조사/제조국가 <i>Manufacturer/Country of Origin</i>	SEAGATE TECHNOLOGY LLC / 미국, 대만
등록연월일 <i>Date of Registration</i>	2022-05-04
기타 <i>Others</i>	
<p>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.</p> <p style="text-align: right;">2022년(Year) 05월(Month) 04일(Day)</p> <p style="text-align: center;">  국립전파연구원장 <i>Director General of National Radio Research Agency</i> </p> <p style="text-align: center; color: red;">* 적합등록 방송통신기자재는 반드시 "적합성평가표시"를 부착하여 운용하여야 합니다. 위반시 과태료 처분 및 등록이 취소될 수 있습니다.</p>	





방송통신기자재등(전자파적합성) 시험성적서

1. 발급 번호 : E22KR-742호
2. 접수번호 / 접수일 : STB22-1033 / 2022년 02월 21일
3. 시험 기간 : 2022년 02월 28일 ~ 2022년 03월 03일
4. 신청인(상호명) : SEAGATE TECHNOLOGY LLC
- 사업자등록번호 : -
- 대표자 성명 : Ken Allan
- 주 소 : 389 Disc Drive Longmont, CO 80503 USA
5. 기자재 명칭 / 모델명 : FireCuda 515 SSD / STA028
6. 제 조 자 / 제조국가 : SEAGATE TECHNOLOGY LLC / 태국
7. 시험 결과 : 적합

방송통신기자재등 시험기관의 지정 및 관리에 관한 고시 제13조의 규정에 의하여 시험성적서를 발급합니다.

2022년 03월 10일

쥬스탠다드뱅크 대표이사 (인)



주소 : 경기도 군포시 군포철단산업2로 48(부곡동)
전화번호 : 031-393-9394
팩스번호 : 031-393-9392

* 인증 받은 방송통신기자재는 반드시 "적합성평가표시"를 부착하여 유통하여야 합니다.
의반 시 과태료 처분 및 인증이 취소될 수 있습니다.

본 시험성적서의 시험결과는 신청인이 제출한 시료에 한합니다.
본 시험성적서는 한국인증기구(KOLAS) 인정과 관련이 없습니다.



التصريح بالمطابقة

Seagate Technology LLC.
389 Disc Drive Longmont, CO 80503 USA
قرص صلب SSD
Seagate
FireCuda 515 SSD

مصنع الجهاز
العنوان
نوع الجهاز
العلامة التجارية
النوع
النماذج

STA028; ZP250GV30001; ZP500GV30001; ZP1000GV30001;
ZP2000GV30001



الصورة

نحن مصنع الجهاز المذكور أعلاه نعلن تحت مسؤوليتنا الخاصة أن الجهاز موضوع هذا الإعلان يتطابق مع المتطلبات الأساسية للقرار رقم 2574.14 الصادر في 16 يوليوز 2015 والمتعلق بالتوافق الكهرومغناطيسي للتجهيزات.

تم اثبات هذا التوافق بحسب المعايير المغربية التالية:

EMC NM EN 55024
NM EN 55035
NM EN 61000-3-2; NM EN 61000-3-3; NM CEI 61000-4-2;
NM CEI 61000-4-3; NM CEI 61000-4-4; NM CEI 61000-4-5;
NM CEI 61000-4-6; NM CEI 61000-4-8; NM CEI 61000-4-11.
EN 55032

Signed by or on behalf of	Seagate Technology LLC	التوقيع من طرف وباسم
Place; Date of issue	Longmont, CO, Jun 22, 2022	تاريخ ومكان الاصدار
Name	Ken Allen	الاسم
Signature		التوقيع

CERTIFICATE OF COMPLIANCE

Certificate Number E106814
Report Reference E106814-20210507
Issue Date 2022-MARCH-22

Issued to: SEAGATE TECHNOLOGY L L C
389 DISC DR
LONGMONT, CO 80503-9364 United States

This certificate confirms that representative samples of

AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT - COMPONENT
See addendum page for models

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.

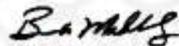
Standard(s) for Safety: UL 62368-1 & CAN/CSA C22.2 No. 62368-1-14 - Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements

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 the UL Follow-Up Services Procedure provides authorization to apply the UL 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/aboutus/location/>



CERTIFICATE OF COMPLIANCE

Certificate Number E106814
Report Reference E106814-20210507
Issue Date 2022-MARCH-22

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

FireCuda 530 SSD
STA025
(ZP4000GM30003 for 4TB, ZP2000GM30003 for 2TB, ZP1000GM30003 for 1TB, ZP500GM30003 for 500GB)

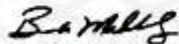
PCIe M.2 2280-E16 SSD
STA020;
ZP1000GM30012

PCIe M.2 2230-E13-E19 SSD
ZP500GM30013
ZP1000GM30013
ZP2000GM30013
ZP500GM30023
ZP4000GM30013
ZP1000GM30023
ZP4000GM30023
ZP2000GM30023

PCIe M.2 2280-E12S SSD
STA027
XP512EX30001
XP1024EX30001
XP2048EX30001

PCIe M.2 2280-E21 SSD
STA028, ZP250GV30001, ZP500GV30001, ZP1000GV30001, ZP2000GV30001

PCIe M.2 2280-E20-7mm SSD
STA029, XP1920SE10005, XP3840SE10005, XP7680SE10005, XP1920SE10015, XP3840SE10015, XP7680SE10015, XP1920SE10025, XP3840SE10025, XP7680SE10025, XP1600LE10005, XP3200LE10005, XP6400LE10005, XP1600LE10015, XP3200LE10015, XP6400LE10015, XP1600LE10025, XP3200LE10025, XP6400LE10025, XP800LE10005, XP800LE10015, XP800LE10025



Bruce Mahrenholz, Director North American Certification Program

UL LLC

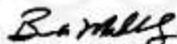
Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/about/locations>



CERTIFICATE OF COMPLIANCE

Certificate Number E106814
Report Reference E106814-20210507
Issue Date 2022-MARCH-22

PCIe M.2 2280-E20 SSD
STA026, XP6400LE70005, XP6400LE70015, XP6400LE70025, XP3200LE70005, XP3200LE70015, XP3200LE70025, XP1600LE70005, XP1600LE70015, XP1600LE70025, XP800LE70005, XP800LE70015, XP800LE70025, XP7680SE70005, XP7680SE70015, XP7680SE70025, XP3840SE70005, XP3840SE70015, XP3840SE70025, XP1920SE70005, XP1920SE70015, XP1920SE70025, XP6400LE70035, XP6400LE70045, XP6400LE70055, XP3200LE70035, XP3200LE70045, XP3200LE70055, XP1600LE70035, XP1600LE70045, XP1600LE70055, XP800LE70035, XP800LE70045, XP800LE70055, XP7680SE70035, XP7680SE70045, XP7680SE70055, XP3840SE70035, XP3840SE70045, XP3840SE70055, XP1920SE70035, XP1920SE70045, XP1920SE70055



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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Ref. Certif. No.

DK-124927-UL

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

CB TEST CERTIFICATE

Product	FireCuda 515 SSD
Name and address of the applicant	SEAGATE TECHNOLOGY INC 389 Disc Drive Longmont, CO 80503 United States
Name and address of the manufacturer	Phison Electronics Corp. No. 1, Qun Yi Rd., Jhunan, Miaoli 350, Taiwan
Name and address of the factory	CAL-COMP ELECTRONICS (THAILAND) PUBLIC CO., LTD 60 MOO. 8 SETHAKIJ RD., KLONG MADUEA KRATOOM BEAN-SAMUTSAKORN 74110 THAILAND
Note: When more than one factory, please report on page 2	<input type="checkbox"/> Additional Information on page 2
Ratings and principal characteristics	+3.3 Vdc, 1.45 A (Optional)
Trademark (if any)	SEAGATE
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	STA028, ZP250GV30001, ZP500GV30001, ZP1000GV30001, ZP2000GV30001
Additional information (if necessary may also be reported on page 2)	Additionally evaluated to: EN 62368-1:2014, EN 62368-1:2014/A11:2017 National Differences specified in the CB Test Report. <input type="checkbox"/> Additional Information on page 2
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2014
As shown in the Test Report Ref. No. which forms part of this Certificate	WL-ITAV-22A2601-A0 issued on 2022-03-04

This CB Test Certificate is issued by the National Certification Body



UL (USA), 333 Peachtree Rd. G. 6000, Norcross, USA
 UL (Denmark), Borsingvej 64 DK-2750 Bellerup, DENMARK
 UL (JP), Marunouchi Trust Tower West Building 5F, 1-6-1 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
 UL (CA), 7 Underwood Road, Toronto, M2R 3G1 Toronto, CANADA

For full legal entity names see www.ul.com/cbtest

Date: 2022-03-06

Signature:

Jan Erik Storgaard
Jan-Erik Storgaard

符合性聲明書
Declaration of Conformity

報驗義務人代碼 Code of the applicant	編號 Number

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

Obligatory Applicant

地址：台北市復興北路363號14樓B室

Address

電話：02-2514 2201

Telephone

商品中（英）文名稱：FireCuda 515 SSD

Commodity Name

商品型式（或型號）：STA028, ZP250GV30001, ZP500GV30001,

ZP1000GV30001, ZP2000GV30001

Commodity Type (Model)

符合之檢驗標準及版次：CNS13438 (95年完整版)；

Standard(s) and version

CNS 15663 第5節「含有標示」(102年)

試驗報告編號：BTL-BSMI-1-2201T133

Test Report Number

試驗室名稱及代號：東研信超股份有限公司/SL2-IN-E-0008

Testing laboratory name and designation number

符合性聲明檢驗標識及識別號碼：

The form of the DoC marking appears like this:

(D) 字號下方標位大寫英文僅適用電機電子類商品)



D33027
RoHS

或



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：_____ (簽章)

Obligatory Applicant

(Signature)

中 華 民 國 111 年 4 月 28 日
DATE (year) (month) (day)

測試報告

東研信超股份有限公司

標準檢驗局指定試驗室認可編號：SL2-IN-E-0008

報告編號	號	: BTL-BSMI-1-2201T133
案件編號	號	: 2201T133
申請人	人	: 台灣希捷科技股份有限公司
地址	址	: 台北市蘆洲北路 363 號 14 樓 B 室
生產廠	場	: 參考申請書
廠牌	牌	: Seagate
產品名稱	稱	: FireCuda 515 SSD
型號	式	: STA028
系列	式	: ZP250GV30001, ZP500GV30001, ZP1000GV30001, ZP2000GV30001
規格	格	: 參考網頁
檢驗標準	準	: CNS 13438 (95年完整版) 乙類
試驗結果	果	: 符合
收件日期	期	: 111 年 1 月 27 日
發行日期	期	: 111 年 4 月 28 日
實驗室地址	址	: 台北市內湖區雷公路二段171巷18號
電話	話	: (02)2641-8198
傳真	真	: (02)2641-8698

本測試報告內容所載之測試結果以及傳訊測試設備系統之組成，係依照上述檢驗標準所規定之量測方法而得。

報告簽署人：



李志強 資深經理



VCCI Test Report

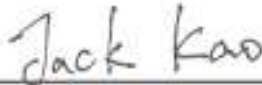
Report No. : BTL-VCCI-1-2201T133
Equipment : FireCuda 515 SSD
Model Name : STA028, ZP250GV30001, ZP500GV30001, ZP1000GV30001, ZP2000GV30001
Brand Name : Seagate
Applicant : Seagate Technology LLC
Address : 389 Disk Drive Longmont, CO 80503 USA

Standard(s) : VCCI-TECHNICAL REQUIREMENTS (VCCI-CISPR 32: 2016)
CISPR 32:2015+COR1:2016 Class B

Date of Receipt : 2022/1/27
Date of Test : 2022/1/27 ~ 2022/3/1
Issued Date : 2022/4/28

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by



Jack Kao, Engineer

Approved by



Pike Lee, Senior Manager



BTL Inc.

No.18, Ln. 171, Sec. 2, Jiluzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299

Fax: +886-2-2657-3331

Web: www.newbti.com



VERIFICATION OF COMPLIANCE

This is to certify that the product listed below was (were) tested in the BTL EMC Laboratory to comply with the criteria limits Class B of conducted and radiated emissions according to the follow-mentioned Measurement Standard established by the VCCI, Japan.

Equipment	FireCuda 515 SSD
Model Name	STA028, ZP250GV30001, ZP500GV30001, ZP1000GV30001, ZP2000GV30001
Brand Name	Seagate
Applicant	Seagate Technology LLC
Address	369 Disk Drive Longmont, CO 80503 USA
Standard(s)	VCCI-TECHNICAL REQUIREMENTS (VCCI-CISPR 32: 2016) CISPR 32:2015+COR1:2016
Report(s)	BTL-VCCI-1-2201T133

The test data, data evaluation, and equipment configuration contained in our test report(s) above was (were) obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO/IEC 17025 quality assessment standard and technical standard(s). The test data contained in the referenced test report relate only to the EUT sample and item(s) tested.

Pike Lee
Authorized Signatory



BTL INC.

No.18, Ln. 171, Sec. 2, Jiluzong Rd.,
Neihu Dist., Taipei City 114, Taiwan
TEL:+886-2-2657-3299
FAX:+886-2-2657-3331





VERIFICATION OF COMPLIANCE

This is to certify that the product listed below was (were) tested in the BTL EMC Laboratory to comply with the required criteria levels of the follow-mentioned Generic Standards or Product Family Standard(s) and/or Basic Standard(s) based on the essential conformity requirements of Electromagnetic Compatibility Regulations 2016.

Equipment	FireCuda 515 SSD
Model Name	STA028, ZP250GV30001, ZP500GV30001, ZP1000GV30001, ZP2000GV30001
Brand Name	Seagate
Applicant	Seagate Technology LLC
Address	389 Disk Drive Longmont, CO 80503 USA
Standard(s)	BS EN 55032:2015+A11:2020 Class B BS EN IEC 61000-3-2:2019+A1:2021 Class D BS EN 61000-3-3:2013+A1:2019 BS EN 55024:2010+A1:2015 BS EN 55035:2017+A11:2020
Report(s)	BTL-EMC-1-2201T133

The test data, data evaluation, and equipment configuration contained in our test report(s) above was (were) obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO/IEC 17025 quality assessment standard and technical standard(s). The test data contained in the referenced test report relate only to the EUT sample and item(s) tested.


Pike Lee
Authorized Signatory



BTL INC.

No.18, Ln. 171, Sec. 2, JIuzong Rd.,
Neihu Dist., Taipei City 114, Taiwan
TEL:+886-2-2657-3299
FAX:+886-2-2657-3331





UKCA Declaration of Conformity

Product Safety and EMC Compliance

The product(s) meets the requirements of the **Electromagnetic Compatibility Regulation 2016** by application of the following standards:

<u>BS EN 55032:2015</u>	Electromagnetic compatibility of multimedia equipment - Emission requirements, Class B
<u>BS EN 55024:2010</u> <u>BS EN 55035:2017</u>	Information Technology Equipment – Immunity characteristics – Limits and methods of measurement
<u>BS EN 61000-3-2:2014</u> <u>BS EN 61000-3-3:2013</u>	Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) 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 **Electrical Equipment (Safety) Regulations 2016** by application of the following standard(s):

<u>BS EN 60950-1:2006 /A2:2013</u>	Information Technology Equipment - Safety- (Second Edition) Part 1: General Requirements
<u>BS EN 62368-1:2014/A11:2017</u>	Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, Modified)

Product Environmental Compliance, UK RoHS Declaration of Conformity

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.
BS EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

Seagate products rely on the following RoHS exemptions for compliance:

13	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
17	Lead as an alloying element in aluminum for machining purposes up to 0.4% lead by weight
18	Copper alloy up to 4.0% lead by weight
19	Lead in high melting temperature type solders (i.e. lead-based solder alloys containing 85 % by weight or more lead
21	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

Year to Begin Affixing Mark:
Manufacturer's Name:
Manufacturer's Address:

2022
Seagate Technology Netherlands B.V. (UK Branch)
Jubilee House, Third Avenue, Globe Park
Marlow SL7 1EY,UK

Type of Equipment:
Internal Product Name:
Regulatory Model Number:
Seagate Internal Model Number:

Solid State Drive
FireCuda 515 SSD
STA028
ZP250GV30001, ZP500GV30001, ZP1000GV30001,
ZP2000GV30001

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: June 29, 2022 | 06:45:59 PDT

Signature: 
Ken Allen
Vice President of Operations, Products and Technology



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)



Regulatory Model Number (RMN) STA020

Statement of Similarity

Tested model
ZP1000GM30012

Models added by Similarity

FireCuda510: ZP500GM30001, ZP1000GM30001, ZP2000GM30001

FireCuda520: ZP500GM30002, ZP1000GM30002, ZP2000GM30002

IronWolf525: ZP500NM30002, ZP1000NM30002, ZP2000NM30002

The regulatory model number STA020 is a Solid State Drive (SSD). It is designed for internal integration into products with a PCIe NVMe interface. The SSD is available with a variety of endurance levels and other features that may be offered. User capacity, endurance features and data security options are determined by the firmware. All models, regardless of these various features and configurations, are physically and electrically identical.

DocuSigned by:

9D7478D29779420...
Ken Allen
Vice President
Operations and Technology



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)

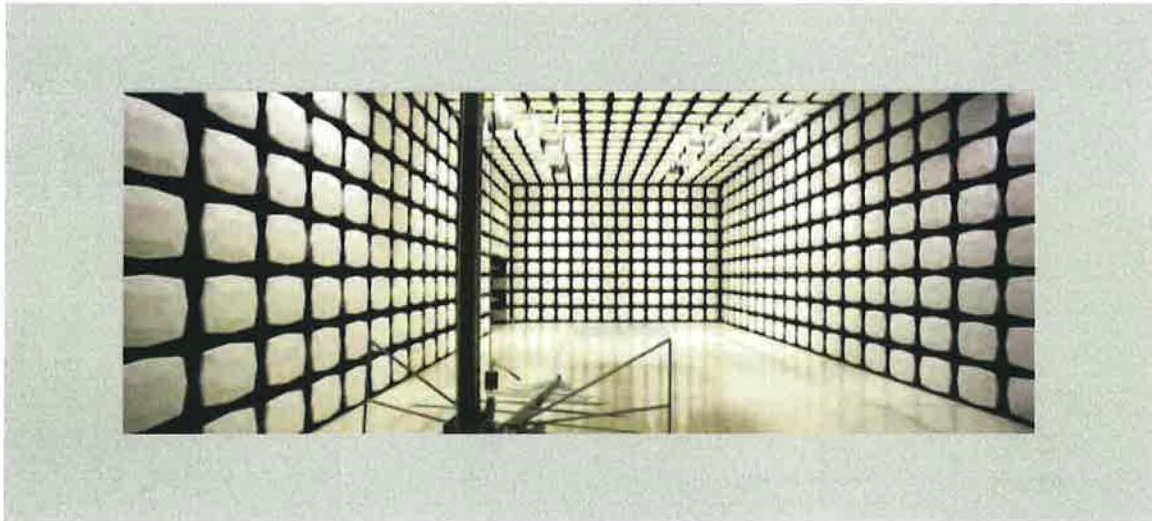


element

Seagate Technology LLC

Model STA020

Report # SEAG0231



NVLAP LAB CODE: 200881-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. This Report shall not be reproduced, except in full without written approval of the laboratory.

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.

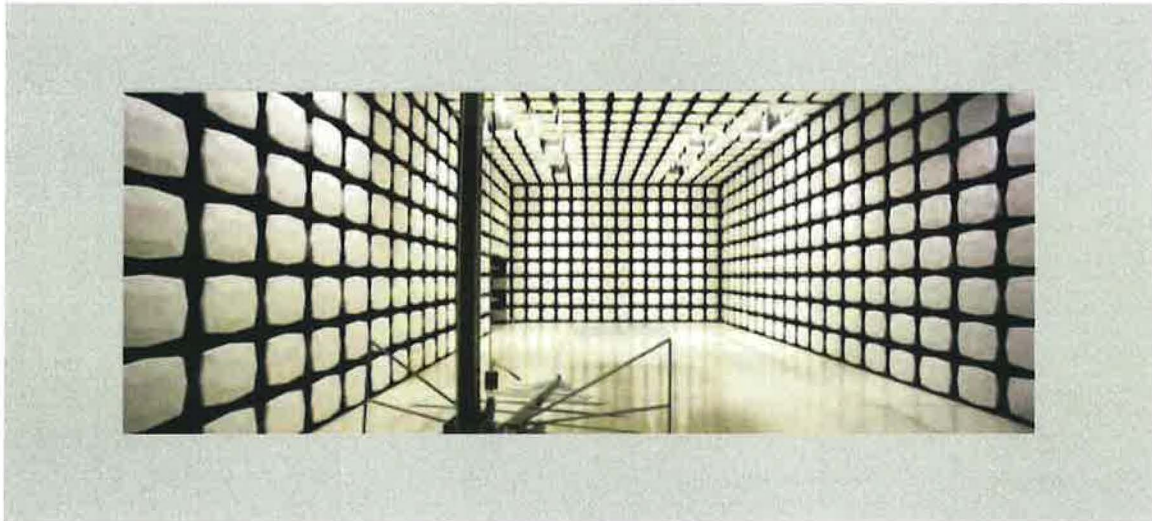


element

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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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,
Samuthsakorn 74110, THAILANDNetronix, Inc.
No. 945, Boai Street, 30265 Jubei City, Hsinchu, TAIWAN

Ratings and principal characteristics

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: 10200 South De Anza Blvd.
(And Importer) 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

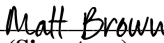
Type of Equipment: Solid State Drive
Product Name: FireCuda

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

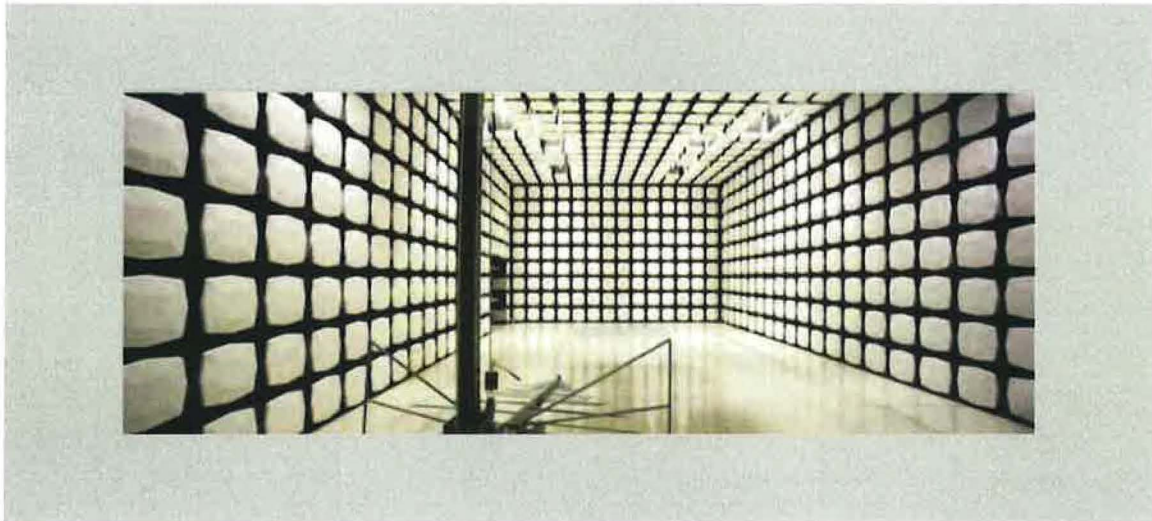


element

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
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.

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'.

(Signature)

Certificate Date: 12 Sept, 2019

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

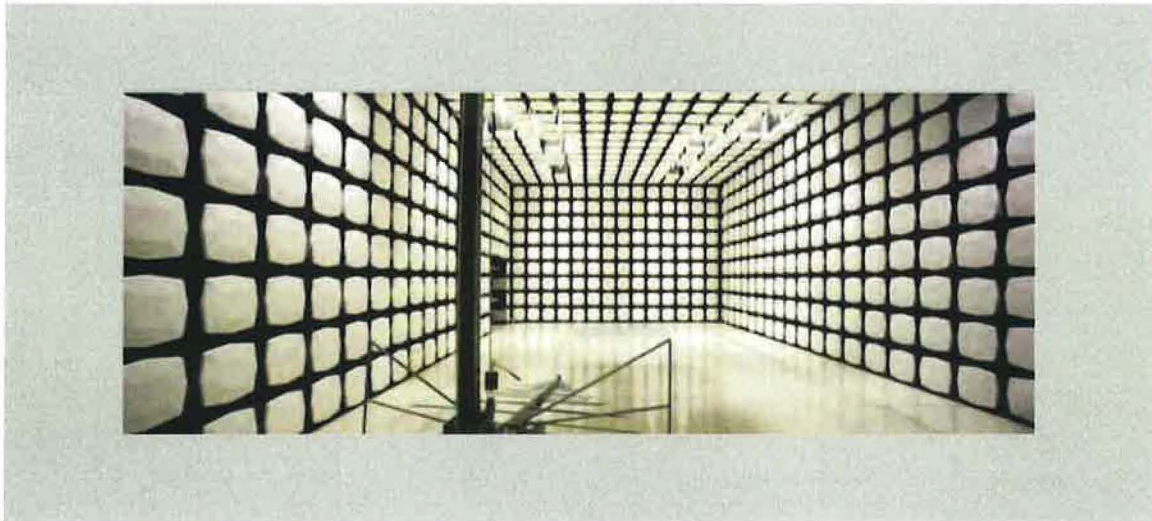


element

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 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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방송통신기자재등의 적합등록 필증

Registration of Broadcasting and Communication Equipments

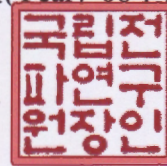
상호 또는 성명 Trade Name or Registrant	SEAGATE TECHNOLOGY LLC
기자재명칭(제품명칭) Equipment Name	Solid State Drive
기본모델명 Basic Model Number	STA020
파생모델명 Series Model Number	ZP500GM30002, ZP2000GM30001, ZP500GM30001, ZP1000GM30002, ZP1000GM30001, ZP2000GM30002
등록번호 Registration No.	R-R-STX-STA020
제조사/제조(조립)국가 Manufacturer/Country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

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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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.

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Bruce Mahrenholz, Director North American Certification Program
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)

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFIKAT ◆ CERTIFICATE

Ad: 07.17



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



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

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)：
Commodity Type (Model)

STA020: ZP500GM30001, ZP1000GM30001, ZP2000GM30001, ZP500GM30002, 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

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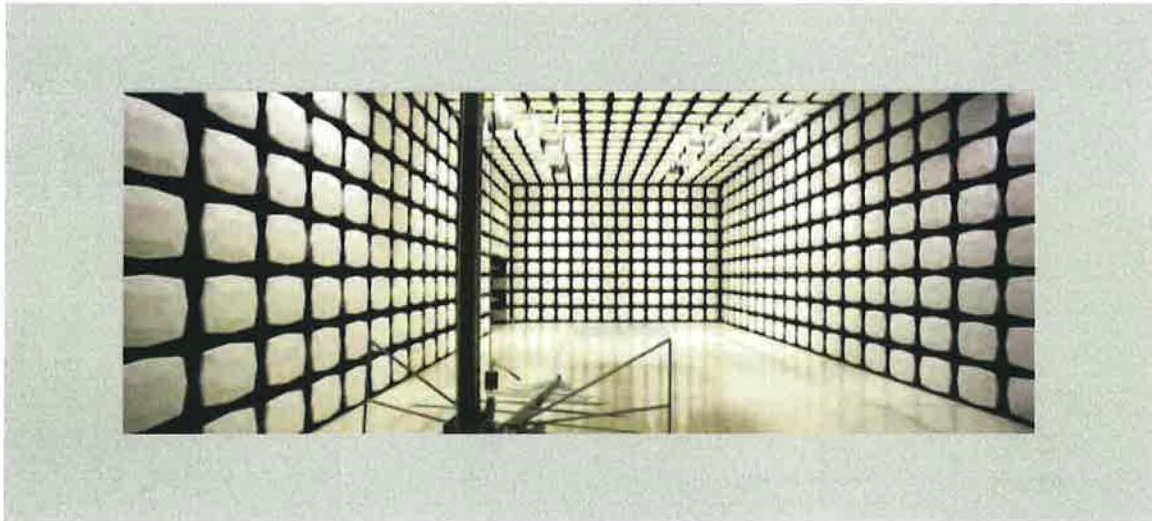


element

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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