TEST REPORT

FCC Designation No: US1109 FCC Reg No: 540430 CAB Identifier: 4842D Issued By: Bureau Veritas Consumer Products Services, Inc. Test Location/Lab Address: 775 Montague Expy, Milpitas, CA 95035



RF Exposure Report

Report No.: FCC_RF Exposure_SL20031301-KLA-003 Rev 4.0

FCC ID: QTA-SCLC

Test Model(s): SCLC300

Series Model No.: SCLC200/SCLC300

Received Date: 03/10/2020

Test Date: 04/06/2020

Issued Date: 01/26/2023

Applicant: KLA Corporation

Address: 1 Technology Dr, Milpitas, CA 95035

Manufacturer: KLA Corporation

Address: 1 Technology Dr, Milpitas, CA 95035

Issued By: Bureau Veritas Consumer Products Services, Inc.

Lab Address: 775 Montague Expressway Milpitas, CA, 95035, USA

FCC Registration / 540430

Designation Number:





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Release Control Record

Issue No.	Description	Date Issued
FCC_RF Exposure_SL20031301-KLA-003	Orignal Release	04/07/2020
FCC_RF Exposure_SL20031301-KLA-003 Rev 1.0	Updated model number	05/12/2020
FCC_RF Exposure_SL20031301-KLA-003 Rev 2.0	Updated model number	06/11/2020
FCC_RF Exposure_SL20031301-KLA-003 Rev 3.0	Updated model number, section 4, and evaluation method	12/06/2022
FCC_RF Exposure_SL20031301-KLA-003 Rev 4.0	Updated product description and description of test modes	01/26/2023



1 Certificate of Conformity

Product: RF Large Coil Carrier Station

Brand: KLA SensArray

Test Model(s): SCLC300

Series Model No.: SCLC200/SCLC300

Sample Status: Product Validation

Applicant: KLA Corporation

Test Date: 04/06/2020

Standards: FCC Part 1 (Section 1.1307(b), 1.1310)

FCC Part 2 (Section 2.1091)

KDB 680106 D01 RF Exposure Wireless Charging App v03:

The above equipment has been tested by **Bureau Veritas Consumer Products Services**, **Inc.**, **Milpitas Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

	Sen			
Prepared by :		, Date:	06/11/2020	
	Deon Dai / Test Engineer			
Approved by :		, Date:	06/11/2020	
	Chen Ge / Engineer Reviewer			



2 General Information

2.1 General Description of EUT

Product	RF Large Coil Storage Case
Brand	KLA SensArray
Test Model	SCLC300
Serial Number	SA20223
Series Model	SCLC300
	SCLC200
Status of EUT	Product Validation
Power Supply Rating	4.5Vdc
Modulation Type	ООК
Operating Frequency	1.5MHz
Antenna Type	Loop PCB Antenna
Antenna Connector	N/A
Product Description	The EUT communicates with the SA Wafer to determine the charge state of the SA Wafer batteries through an RF induction interface and charges the SA Wafer batteries through that same RF induction circuit so they remain at the optimum charge level.



2.2 Wireless Power Transfer

2.3 Description of Support Units

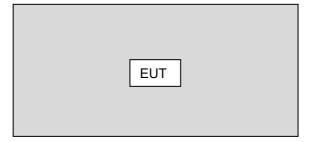
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

					3	
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
Α.						

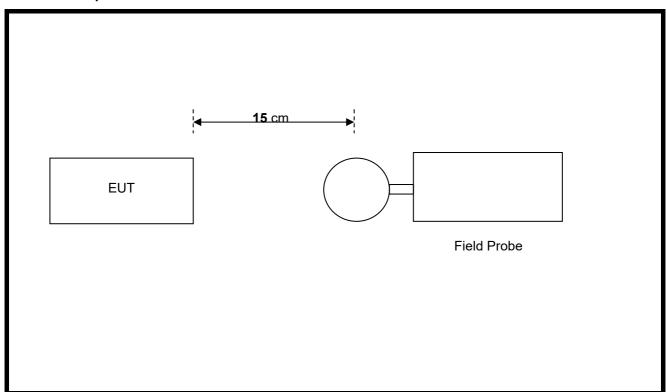
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	-	-	-	-	-	-

Note: The core(s) is(are) originally attached to the cable(s).

2.4 Configuration of System under Test



2.5 Test Setup





2.6 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Field strength meter WAVECONTROL	SMP2	19SN0981	Jan. 02, 2020	Jan. 02, 2021
WP400 Field Probe WAVECONTROL	WP400	19WP100500	Jan. 02, 2020	Jan. 02, 2021
WPH60 Field Probe WAVECONTROL	WPH60	19WP100400	Jan. 02, 2020	Jan. 02, 2021
Electric Field Probe ETS-Lindgren	HI-6005	156327	Feb. 11, 2020	Feb. 11, 2021



3 Limit for Maximum Pecrmissible Exposure (MPE)

Frequency Range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm2)	Averaging time(minutes)
	(A) Limit	s for occupation/contro	lled Exposure	·
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.06	6
300-1500			f/300	6
1500-100000			5	6
	(B) Limits for (General Population/Und	controlled Exposure	
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100000			1	30
f = frequency in MHz	* = Plane-wave equiv	alent power density	·	<u>-</u>

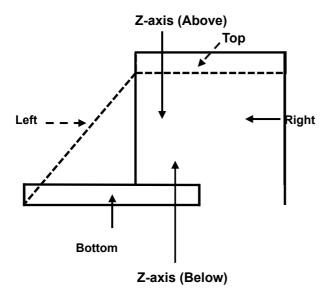
E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the device and 20 cm above the top surface of the primary/client pair.

KDB 680106 D01 RF Exposure Wireless Charging App v03:

- (1) Power transfer frequency is less than 1MHz
 - -----No, Power transfer frequency is 1.528MHz
- (2) Output power from each primary coil is less than or equal to 15 watts
 - ----Yes, power is 2W
- (3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
 - -----Yes, Transmitter and receiver have only one coil each
- (4) Client device is placed directly in contact with the transmitter.
 - -----No, Distance between charger and receiver is 11mm max.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion). -----Yes, Mobile exposure condition only, product is used >20cm from user.
- (6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.
 - -----Yes, 0.06 A/m < 0.815 A/m (50% of limit 1.63 A/m)



4 Test Point Description



Evaluation Method

The evaluation method first requires a determination of the antenna region(s) in which the exposure occurs, and from this determination the appropriate evaluation method (calculation or measurement) can then be used.

For each region there is a preferred (or "reference") evaluation method and possible alternatives. When an alternative method is used it typically provides a more conservative evaluation of the RF hazard. The region is determined, based on the minimum separation distance from the device antennas to persons and the size/gain of the antenna. The minimum separation distance is based on either a distance specified in the installation/user's manual or on an evaluation of intended use.



5 Calculation Result of Maximum Conducted Power

Charging Mode

Orlanging ivi								
		E-Field	E-Field	E-Field				
		Measureme	Measureme	Measureme				
		Measurer (15cm				nt	nt	nt
		(100111	,			(15cm)	(20cm)	(15cm)
Frequency (MHz)	EUT Side	Left	Z-axis (Above)	Тор	Bottom	Z-axis (Above)	Z-axis (Above)	Z-axis (Below)
1.528	Max E-field (V/m)	0.66	0.66	0.65	0.65	0.66	0.65	0.66
1.528	Limit (V/m)	614	614	614	614	614	614	614
1.528	Margin (V/m)	-613.34	-613.34	-613.35	-613.35	-613.34	-613.35	-613.34
1.528	50 % Limit (V/m)	307	307	307	307	307	307	307
1.528	50 % Margin (V/m)	-306.34	-306.34	-306.35	-306.35	-306.34	-306.35	-306.34

		H-Field	H-Field	H-Field				
		Measureme	Measureme	Measureme				
		Measuren (15cm				nt	nt	nt
		(,			(15cm)	(20cm)	(0cm)
Frequency (MHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Above)	Z-axis (Below)
1.528	Max H-field (A/m)	0.06	0.05	0.06	0.06	0.06	0.06	0.06
1.528	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63	1.63
1.528	Margin (A/m)	-1.57	-1.58	-1.57	-1.57	-1.57	-1.57	-1.57
1.528	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815	0.815
1.528	50 % Margin (A/m)	-0.755	-0.765	-0.755	-0.755	-0.755	-0.755	-0.755

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.



Standby Mode

		E-Field	E-Field	E-Field				
		Measureme	Measureme	Measureme				
		nt	nt	nt				
		(15cm)	'			(15cm)	(20cm)	(15cm)
Frequency (MHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Above)	Z-axis (Below)
1.528	Max E-field (V/m)	0.52	0.51	0.52	0.53	0.50	0.51	0.51
1.528	Limit (V/m)	614	614	614	614	614	614	614
1.528	Margin (V/m)	-613.48	-613.49	-613.48	-613.47	-613.5	-613.49	-613.49
1.528	50 % Limit (V/m)	307	307	307	307	307	307	307
1.528	50 % Margin (V/m)	-306.48	-306.49	-306.48	-306.47	-306.5	-306.49	-306.49

		H-Field	H-Field	H-Field				
		Measureme	Measureme	Measureme				
		nt	nt	nt				
		(15cm)	,			(15cm)	(20cm)	(15cm)
Frequency (MHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Above)	Z-axis (Below)
1.528	Max H-field (A/m)	0.06	0.06	0.06	0.06	0.06	0.06	0.06
1.528	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63	1.63
1.528	Margin (A/m)	-1.57	-1.57	-1.57	-1.57	-1.57	-1.57	-1.57
1.528	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815	0.815
1.528	50 % Margin (A/m)	-0.755	-0.755	-0.755	-0.755	-0.755	-0.755	-0.755

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.



Appendix A: Pictures of Test Arrangements				
Please refer to the attached file (Test Setup Photo).				



Appendix B: Information of the Testing Laboratories

Bureau Veritas is a global leader in testing, inspection, and certification (TIC) services. We help businesses improve safety, sustainability, and productivity; and our clients include most leading brands in retail, manufacturing, and other industries. With a presence in every major country around the world, our quality assurance and compliance solutions are vital in helping our customers enhance product quality and concept-to-consumer journeys. We also assist with increasing speed to market, profitability, and brand equity throughout the supply chain. Bureau Veritas is a leading wireless/IoT testing, inspection, audit, and certification provider, with a global network of test laboratories to support the IoT industry in areas of connectivity, security, interoperability as well as quality, health & safety, and environmental/chemical requirements.

If you have any comments, please feel free to contact us at the following:

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Tel: +1 408 526 1188

Littleton EMC/RF/Safety/Environmental Lab

1 Distribution Center Cir #1, Littleton, MA 01460

Tel: +1 978 486 8880

Email: sales.eaw@us.bureauveritas.com
Web Site: www.cpsusa-bureauveritas.com

Sunnyvale OTA/Bluetooth Lab

1293 Anvilwood Avenue, Sunnyvale, CA 94089

Tel: +1 669 600 5293

The address and road map of all our labs can be found in our web site also.

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Appendix C: Declaration of Model Differences Letter





Declaration of Model Differences Letter

Applicant: KLA SensArray

Product name: RF Large Coil Storage Case

Brand: KLA SensArray

Model:

Model Name	Model Number
STORAGE CASE LC 300	SCLC300
STORAGE CASE LC 200	SCLC200

Please refer to model difference as below.

Circuit board layout, component models are exactly the same.

		Products are:	
#	Product Characteristics:	Same	Different
1	Radio Frequency Operating Range(s)	X	
2	RF Power / Field Strength	X	
3	Radio Frequency Circuitry	X	
4	Antenna Characteristics	X	
5	Associated Digital Circuitry	X	
6	Functional Capabilities	X	
7	Cosmetic/Dimension Differences		X
8	Case Design/Materials		X

For any differences, a description is provided in the table below.

#	Description of differences:	
1	STORAGE CASE LC 300 is based on 300mm diameter plastic case,	
	STORAGE CASE LC 200 is based on 300mm diameter plastic case with plastic	
	adaptor.	
2	STORAGE CASE LC 200 is a modified design based on STORAGE CASE LC	
	300 with adaptor design, the material is still plastic.	

The difference between them impose no deviation in their RF aspect, and hence, there applies no change to RF test results

KLA Corporation
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KLN

Name and position: Lei Mei, Senior Electrical Design Engineer and Compliance Owner

Name of Applicant: KLA SensArray

Address: 7 Technology Drive. Milpitas, CA 95035

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Report End