

Human Exposure Report

Application No.: SZEM2005004108CR
Applicant: LIDL US LLC
Address of Applicant: 3500 S Clark Street, ARLINGTON VA 22202, USA
Manufacturer: LIDL US LLC
Address of Manufacturer: 3500 S Clark Street, ARLINGTON VA 22202, USA
Factory: FUJIAN YOUTONG INDUSTRIES CO., LTD
Address of Factory: North part of 1st, 2nd~3rd floor, Building 1#, M9511 industries park, No.18, Majiang Road, Mawei District, Fuzhou City, Fujian, China

Equipment Under Test (EUT):

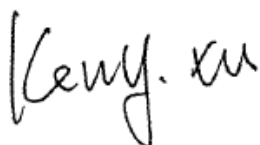
EUT Name: QI Dual charging adapter
Model No.: HG06618A-US, HG06618B-US ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark: Silvercrest
FCC ID: 2AJ90-HG06618
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
 47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt: 2020-05-22
Date of Test: 2020-05-24 to 2020-06-04
Date of Issue: 2020-06-05

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above



Keny Xu
 EMC Laboratory Manager





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2 General Information

2.1 Details of E.U.T.

Power Supply:	Input:5V/3A Output: 2X5W max or Input: 9V/3A ,12V/2.25V, 15V/2A WPC Output: Up to 10W(each) Total power: 20W max
Cable:	Type C cable: 100cm shielded
Antenna Type:	Loop Antenna
Modulation Type:	Load Modulation
Operation Frequency:	111.38kHz to 128.21kHz
Remark:	Tests were conducted in all load modes and the worst case 10W (per coil) simultaneous transmitting is reported only.

Keep the EUT charging, the specific combination for coil A and coil B is as follow:

Adapter type:	Input	Coil A	Coil B	Test mode
Normal adapter	5V/3A above	5W		d
Normal adapter	5V/3A above		5W	b
Normal adapter	5V/3A above	5W	5W	c
PD or QC adapter	9V/3A ,12V/2.25V, 15V/2A above	10W	10W	a
PD or QC adapter	9V/3A ,12V/2.25V, 15V/2A above	10W		e
PD or QC adapter	9V/3A ,12V/2.25V, 15V/2A above		10W	f
PD or QC adapter	9V/3A ,12V/2.25V, 15V/2A above	10W	7.5W	g
PD or QC adapter	9V/3A ,12V/2.25V, 15V/2A above	7.5W	10W	h
PD or QC adapter	9V/3A ,12V/2.25V, 15V/2A above	10W	5W	i
PD or QC adapter	9V/3A ,12V/2.25V, 15V/2A above	5W	10W	j
PD or QC adapter	9V/3A ,12V/2.25V, 15V/2A above	7.5W	7.5W	Kk



PD or QC adapter	9V/3A ,12V/2.25V, 15V/2A above	7.5W	5W	l
PD or QC adapter	9V/3A ,12V/2.25V, 15V/2A above	5W	7.5W	m
PD or QC adapter	9V/3A ,12V/2.25V, 15V/2A above	5W	5W	n
PD or QC adapter	9V/3A ,12V/2.25V, 15V/2A above	5W		o
PD or QC adapter	9V/3A ,12V/2.25V, 15V/2A above		5W	p
PD or QC adapter	9V/3A ,12V/2.25V, 15V/2A above	7.5W		q
PD or QC adapter	9V/3A ,12V/2.25V, 15V/2A above		7.5W	r

Remark:

Model No.: HG06618A-US, HG06618B-US

Only the model HG06618A-US was tested. Since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on color.



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2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter(client supply)	ROMOSS	AC30A	N4AC30A10213 1909
iPhone 8	Apple	A1863	F4GVQ656JC6D
Mobile Phone	SAMSUNG	SM-G9500	R28J9140LPB



2.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

2.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.



3 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2020-06-10
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2020-11-27



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4 Test Results

4.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

Measurement Distance: 15/20cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled 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
1500-100,000	/	/	1.0	30

F=frequency in MHz
 *=Plane-wave equivalent power density
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

4.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 52% RH Atmospheric Pressure: 1015 mbar

EUT Operation:

This device has been tested the worst status of full load and the device has been tested with load at zero charge, intermediate charge, and full charge.



4.1.2 Measurement Data

Output Voltage=DC 9V; The max output power =10W;Calculation of resistor value=8.1Ω for each coil.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
116.27 kHz	15	Side 1	0.0414	0.815
		Side 2	0.1243	0.815
		Side 3	0.0442	0.815
		Side 4	0.1127	0.815
		Top	0.0846	0.815
	20	Top	0.0722	0.815

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			zero charge	intermediate charge	full charge	
116.27 kHz	15	Side 1	0.0514	0.0393	0.0355	0.815
		Side 2	0.1335	0.1221	0.1177	0.815
		Side 3	0.0545	0.0432	0.0396	0.815
		Side 4	0.1239	0.1114	0.1066	0.815
		Top	0.0953	0.0825	0.0776	0.815
	20	Top	0.0836	0.0778	0.0693	0.815



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5 Photographs- RF exposure Setup photos

Please refer to RF exposure setup.

- End of the Report -

