

	RF Exposure Report			
Report No.:	SA190417D14			
FCC ID:	PPQIC3S			
Test Model:	IC3-32A-H-A			
Series Model:	IC3-32A-N-A, SC3-32A-H, SC3-32A-N, IC3-32A-H-V, IC3-32A-N-V			
Received Date:	Apr. 17, 2019			
Test Date:	Apr. 26 to May 3, 2019			
Issued Date:	May 7, 2019			
Applicant:	Lite-On Technology Corporation			
	90,Chien I Road, Chung Ho, Taipei Hsien, Taiwan, R.O.C			
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch			
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan			
FCC Registration /	(R.O.C.)			
Designation Number:	198487 / TW2021			
	ac-MRA			
	Testing Laboratory 2021			
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	oduct certification, approval, or endorsement by TAF or any government agencies.			



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Release Control Record

Issue No.	Description	Date Issued
SA190417D14	Original release.	May 7, 2019



1 Certificate of Conformity

Product:	Charging Station
Brand:	LITEON
Test Model:	IC3-32A-H-A
Series Model:	IC3-32A-N-A, SC3-32A-H, SC3-32A-N, IC3-32A-H-V, IC3-32A-N-V
Sample Status:	Engineering sample
Applicant:	Lite-On Technology Corporation
Test Date:	Apr. 26 to May 3, 2019
Standards:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01 General RF Exposure Guidance v06
	IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan 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 RF characteristics under the conditions specified in this report.

Prepared by: Jesuica Chorg

Jessica Cheng / Senior Specialist

Date: May 7, 2019

Approved by :

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Date: May 7, 2019

Rex Lai / Associate Technical Manager



2 RF Exposure

2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)			
	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

2.2 MPE Calculation Formula

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



2.4 Calculation Result Of Maximum Conducted Power

The EUT contains WiFi module and LTE module, they can transmit at same time. For more details please refer to as below:

Model	Contains WIFI /LTE Certified Module
SC3-32A-H, SC3-32A-N	FCC ID: PPQSC3US (WiFi)
IC3-32A-H-A, IC3-32A-N-A	FCC ID: 2ADWC-AI7688H (WiFi), FCC ID: QIPELS61-US (LTE)
IC3-32A-H-V, IC3-32A-N-V	FCC ID: PPQIC3V (WiFi & LTE)

EUT (RFID):

Frequency Band	Max Power (EIRP)	Distance	Power Density	Limit
(MHz)	(dBm)	(cm)	(mW/cm ²)	(mW/cm ²)
13.56	-16.9	20	0.00000406	0.978

NOTE:

- 1. Max Power: 78.30dBuV/m = -16.9dBm
- 2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

For Model: SC3-32A-N, SC3-32A-H

WLAN module FCC ID: PPQSC3US

Frequency Band	Max Power	Antenna Gain	Distance	Power Density	Limit
(MHz)	(dBm)	(dBi)	(cm)	(mW/cm ²)	(mW/cm ²)
2412-2462	17.92	2	20	0.0195	1

For Model: IC3-32A-H-A, IC3-32A-N-A

WLAN module FCC ID: 2ADWC-AI7688H

Frequency Band	Max Power	Antenna Gain	Distance	Power Density	Limit
(MHz)	(dBm)	(dBi)	(cm)	(mW/cm ²)	(mW/cm ²)
2412-2462	20	2	20	0.03	1

LTE module FCC ID: QIPELS61-US

Band 2

Frequency Band	EIRP	Distance	Power Density	Limit
(MHz)	(dBm)	(cm)	(mW/cm ²)	(mW/cm ²)
WCDMA: 1850MHz ~ 1910MHz	23.68	20	0.05	1
LTE Band 2: 1850MHz ~ 1910MHz	23.10	20	0.04	1
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Frequency Band	EIRP	Distance	Power Density	Limit
(MHz)	(dBm)	(cm)	(mW/cm ²)	(mW/cm ²)
WCDMA: 1710MHz ~ 1755MHz	23.63	20	0.05	1
LTE Band 4: 1710MHz ~ 1755MHz	23.11	20	0.04	1



0.47

(mW/cm²)

0.07

Band 5

Frequency Band (MHz)	ERP (dBm)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WCDMA: 824MHz ~ 849MHz	23.93	26.08	20	0.08	0.55
LTE Band 5: 824MHz ~ 849MHz	23.12	25.27	20	0.07	0.55
Note: EIRP = ERP + 2.15 Band 12					
Frequency Band (MHz)	ERP (dBm)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)

25.41

20

23.26

LTE Band 12: 698MHz ~ 711MHz

Note: EIRP = ERP + 2.15

For Model: IC3-32A-H-V, IC3-32A-N-V WLAN & LTE module FCC ID:PPQIC3V WLAN

Frequency Band	Max Power	Antenna Gain	Distance	Power Density	Limit
(MHz)	(dBm)	(dBi)	(cm)	(mW/cm ²)	(mW/cm ²)
2412-2462	17.92	2	20	0.0195	1

LTE Band 4

Frequency Band	EIRP	Distance	Power Density	Limit
(MHz)	(dBm)	(cm)	(mW/cm ²)	(mW/cm ²)
LTE Band 4: 1710MHz ~ 1755MHz	25.71	20	0.0741	1

LTE Band 13

Frequency Band (MHz)	ERP (dBm)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm²)
LTE Band 13: 777MHz ~ 787MHz	20.31	22.46	20	0.0351	0.52

Note: EIRP = ERP + 2.15

Conclusion:

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

For Model: SC3-32A-N, SC3-32A-H

RFID + WLAN module FCC ID: PPQSC3US 0.00000406 /0.978 + 0.0195/1=0.019504

For Model: IC3-32A-H-A, IC3-32A-N-A

RFID + WLAN module FCC ID: 2ADWC-AI7688H + LTE module FCC ID: QIPELS61-US = 0.00000406 /0.978 + 0.03/1 + 0.07/0.47 = 0.044894

For Model: IC3-32A-H-V, IC3-32A-N-V

RFID + WLAN & LTE module FCC ID: PPQIC3V =

0.00000406 / 0.978 + 0.0195 / 1 + 0.0741 / 1 = 0.093604

Therefore the maximum calculations of above situations are less than the "1" limit. --- END ---