



FCC IC RF EXPOSURE REPORT

FOR

802.11b/g/n 1X1 WLAN + Bluetooth Atlas

MODEL NUMBER: Atlas001

FCC ID: ZVAOH00003

IC: 9976A-OH00003

REPORT NUMBER: 47887541345-4

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Prepared for

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Prepared by

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: TCL Technoly Electronics(Huizhou) Co.,Ltd
Address: Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang Dong Province, China, 516006.

Manufacturer Information

Company Name: Same as applicant
Address: Same as applicant

EUT Description

Product Name Atlas
Brand Name TrackR
Model Name Atlas001
Serial Number N/A
Model Difference N/A
Date Tested July 25, 2016 ~ August 5, 2016

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Guidelines for Human Exposure IEEE C95.1	Complies

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v05.

3. FACILITIES AND ACCREDITATION

Test Location	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Address	Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China
Accreditation Certificate	The Laboratory has been assessed and proved to be in compliance with IAS, The Certificate Registration Number is TL-702 .
Description	All measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

4. REQUIREMENT

LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
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/150	30
1500-100,000	--	--	1.0	30
Note 1: f = frequency in MHz, * means Plane-wave equivalent power density				
Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.				
Note 3: The limit value 1.0mW/cm ² is available for this EUT.				

MPE CALCULATION METHOD

$$S = PG / (4\pi R^2)$$

where: S = power density (in appropriate units, e.g. mW/ cm²)

P = power input to the antenna (in appropriate units, e.g., mW) (the measured power value see Report: F12124 Section 6.6)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

BLE GFSK Mode							
Frequency	Output Power to Antenna		Antenna Gain		Power Density	Limit	Test Result
(MHz)	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	--
2402	-3.14	0.49	0	1	0.00137	1	Complies
2440	-3.43	0.45	0	1	0.00155	1	Complies
2480	-4.30	0.37	0	1	0.00169	1	Complies

WIFI 802.11b Mode							
Frequency	Output Power to Antenna		Antenna Gain		Power Density	Limit	Test Result
(MHz)	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	--
2412	15.56	35.97	3.37	2.17	0.01555	1	Complies
2437	16.86	48.53	3.37	2.17	0.02098	1	Complies
2462	16.52	44.87	3.37	2.17	0.01940	1	Complies

WIFI 802.11g Mode							
Frequency	Output Power to Antenna		Antenna Gain		Power Density	Limit	Test Result
(MHz)	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	--
2412	19.41	87.30	3.37	2.17	0.03773	1	Complies
2437	22.72	187.07	3.37	2.17	0.08086	1	Complies
2462	19.31	85.31	3.37	2.17	0.03687	1	Complies

WIFI 802.11n HT20 Mode							
Frequency	Output Power to Antenna		Antenna Gain		Power Density	Limit	Test Result
(MHz)	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm2)	(mW/cm2)	--
2412	18.87	77.09	3.37	2.17	0.03332	1	Complies
2437	21.71	148.25	3.37	2.17	0.06408	1	Complies
2462	18.64	73.11	3.37	2.17	0.03160	1	Complies

Note: the calculated distance is 20cm.

END OF REPORT