FCC RF EXPOSURE REPORT

FCC ID: A5MYOGA27ARH7

Project No.	:	2112C039
Equipment	:	Personal Computer
Brand Name	:	Lenovo
Product Name	:	Yoga AIO 7 27ARH7
Series Model	:	N/A
Applicant	:	Lenovo (Beijing) Limited
Address	:	201-H2-6,Floor 2,Building 2,No.6 Shangdi West Road,Haidian District,Beijing,China 100085
Manufacturer	:	Lenovo (Beijing) Limited
Address	:	201-H2-6,Floor 2,Building 2,No.6 Shangdi West Road,Haidian District,Beijing,China 100085
Date of Receipt	:	Dec. 08, 2021
Date of Test	:	Dec. 10, 2021 ~ Jan. 08, 2022
Issued Date	:	Jan. 28, 2022
Report Version	:	R01
Test Sample	:	Engineering Sample No.: DG202112101
Standard(s)	:	FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091 FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

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

Nick Chen

Prepared by : Nick Chen

Chay . Cai

Approved by : Chay Cai

TESTING CERT #5123.02

Add: No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China
Tel: +86-769-8318-3000
Web: www.newbtl.com

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue	Jan. 27, 2022
R01	Deleted the series model.	Jan. 28, 2022

1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.
BTL's Registration Number for FCC: 357015
BTL's Designation Number for FCC: CN1240

2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:
S = power density
P = power input to the antenna
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

Table for Filed Antenna:

For BT/LE/2.4GHz:

Ant.	Brand	P/N	Antenna Type	Connector	Gain(dBi)
1	high-tek	0ACAVC21014N	PIFA	N/A	2.99
1	SPEED	F-0G-48-6002-002-00	PIFA	N/A	1.38

Note:
1) Both groups of antennas were evaluated and found the worst case was the high-tek, so only the worst case was recorded in this test report.
2) The antenna gain is provided by the manufacturer.

For 5GHz

Ant.	Brand	P/N	Antenna Type	Connector	Gain(dBi)
1	high-tek	0ACAVC21014N	PIFA	N/A	2.05
1	SPEED	F-0G-48-6002-002-00	PIFA	N/A	2.44

Note:
1) Both groups of antennas were evaluated and found the worst case was the SPEED, so only the worst case was recorded in this test report.
2) The antenna gain is provided by the manufacturer.

3. TEST RESULTS

For BT:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2.99	1.9907	6.43	4.3954	0.00174	1	Complies

For LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2.99	1.9907	5.91	3.8994	0.00155	1	Complies

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2.99	1.9907	18.04	63.6796	0.02523	1	Complies

For 5GHz UNII-1:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2.44	1.7539	16.29	42.5598	0.01486	1	Complies

For 5GHz UNII-2A:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2.44	1.7539	17.30	53.7032	0.01875	1	Complies

For 5GHz UNII-2C:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2.44	1.7539	16.79	47.7529	0.01667	1	Complies

For 5GHz UNII-3:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2.44	1.7539	16.14	41.1150	0.01435	1	Complies

Note: The calculated distance is 20 cm.

End of Test Report