

TEST REPORT

Product Name : HAYLOU RT3
Brand Mark : HAYLOU
Model No. : LS16
FCC ID : 2AMQ6-LS16
Report Number : BLA-EMC-202207-A5303
Date of Sample Receipt : 2022/7/19
Date of Test : 2022/7/19 to 2022/8/30
Date of Issue : 2022/8/30
Test Standard : 47 CFR Part 15, Part1.1307
47 CFR Part 15, Part2.1093
KDB447498D04 General RF Exposure
Guidance v01
Test Result : Pass

Prepared for:

Dongguan Liesheng Electronic Co., Ltd ??

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Prepared by:

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Date: 2022/8/30



REPORT REVISE RECORD

| Version No. | Date | Description |
|--------------------|-------------|--------------------|
| 00 | 2022/8/30 | Original |

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1 TEST SUMMARY

| Test item | Test Requirement | Test Method | Class/Severity | Result |
|-------------|---|--------------------|--------------------|--------|
| RF Exposure | 47 CFR Part 1.1307, Part 2.1093, KDB 447498 | CFR 47 Part 2.1093 | CFR 47 Part 2.1093 | PASS |

2 GENERAL INFORMATION

| | |
|-----------------------|--|
| Applicant | Dongguan Liesheng Electronic Co., Ltd. |
| Address | Room 401-410, Building 1, No.86 Hongtu Road, Nancheng District, Dongguan City, Guangdong, China. |
| Manufacturer | Dongguan Liesheng Electronic Co., Ltd. |
| Address | Room 401-410, Building 1, No.86 Hongtu Road, Nancheng District, Dongguan City, Guangdong, China. |
| Factory | Dongguan Zhengrong Electronic Co., Ltd. |
| Address | No.4, Shugang Avenue, Hongmei Town, Dongguan City, Guangdong |
| Product Name | HAYLOU RT3 |
| Test Model No. | LS16 |

3 GENERAL DESCRIPTION OF E.U.T.

| | |
|-----------------------------|------------------------------------|
| Hardware Version | N/A |
| Software Version | N/A |
| Operation Frequency: | 2402MHz-2480MHz |
| Data Rate | 1Mbps; 2Mbps |
| Modulation Type: | GFSK |
| Channel Spacing: | 2MHz |
| Number of Channels: | 40 |
| Antenna Type: | Internal Antenna |
| Antenna Gain: | -2.59dBi(Provided by the customer) |

4 LABORATORY LOCATION

All tests were performed at:
 BlueAsia of Technical Services(Shenzhen) Co., Ltd.
 Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
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 No tests were sub-contracted.

5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 RF EXPOSURE COMPLIANCE REQUIREMENT

Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

Limits

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

| Frequency (MHz) | Distance (mm) | | | | | | | | | | |
|-----------------|---------------|----|----|-----|-----|-----|-----|-----|-----|-----|--|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | |
| 300 | 39 | 65 | 88 | 110 | 129 | 148 | 166 | 184 | 201 | 217 | |
| 450 | 22 | 44 | 67 | 89 | 112 | 135 | 158 | 180 | 203 | 226 | |
| 835 | 9 | 25 | 44 | 66 | 90 | 116 | 145 | 175 | 207 | 240 | |
| 1900 | 3 | 12 | 26 | 44 | 66 | 92 | 122 | 157 | 195 | 236 | |
| 2450 | 3 | 10 | 22 | 38 | 59 | 83 | 111 | 143 | 179 | 219 | |
| 3600 | 2 | 8 | 18 | 32 | 49 | 71 | 96 | 125 | 158 | 195 | |
| 5800 | 1 | 6 | 14 | 25 | 40 | 58 | 80 | 106 | 136 | 169 | |

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$EIRP = p_t \times g_t = (E \times d)^2 / 30$$

where:

p_t = transmitter output power in watts,

g_t = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, --- $10((dBuV/m)/20)/106$

d = measurement distance in meters (m)---3m

$$S_{opt} = (E \times d)^2 / 30 \times g_t$$

$$\text{Ant gain} = -2.59\text{dBi}$$

$$\text{Max Output power} = 3.087\text{dBm} @ \text{BR} @ 2442\text{MHz}$$

$$\text{ERP} = 3.087\text{dBm} - 2.59\text{dBi} - 2.15 = -1.653\text{dBm}$$

So

ERP is worse case

$$10^{0.3087} = 2.036 \text{ mW} < 2.75 \text{ mW}$$

Then SAR evaluation is not required

----END OF REPORT----

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