



FCC RADIO TEST REPORT

FCC ID : QISLYA-L0C
Equipment : Smart Phone
Brand Name : HUAWEI
Model Name : LYA-L0C
Applicant : Huawei Technologies Co., Ltd.
Administration Building, Headquarters of
Huawei Technologies Co., Ltd., Bantian,
Longgang District, Shenzhen, 518129, P.R.C
Manufacturer : Huawei Technologies Co., Ltd.
Administration Building, Headquarters of
Huawei Technologies Co., Ltd., Bantian,
Longgang District, Shenzhen, 518129, P.R.C
Standard : 47 CFR Part 2, (22H)

The product was received on Aug. 17, 2018. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International (Shenzhen) Inc., the test report shall not be reproduced except in full.



Approved by: Eric Shih / Manager

Sporton International (Shenzhen) Inc.

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1 General Description

1.1 Product Feature of Equipment Under Test

| Product Feature | |
|---------------------------------|--|
| Equipment | Smart Phone |
| Brand Name | HUAWEI |
| Model Name | LYA-L0C |
| FCC ID | QISLYA-L0C |
| EUT supports Radios application | GSM/WCDMA/HSPA/LTE/NFC/GNSS/WPC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 Bluetooth BR/EDR/LE |
| HW Version | HL2LAYAM |
| SW Version | 5.0.1.82 (C792E4R1P9log) |
| EUT Stage | Identical Prototype |

Remark: This is a variant report which can be referred to the Table for Multiple Listing. Since the verify test result of field strength of spurious radiation wasn't worse than original report 3dB. All the test data were leveraged from FG880204A (FCC ID: QISLYA-LX9), and the 47 CFR Part 2, 22(H) worst case was verified.



| Accessories Information | | | | |
|-------------------------|--------------|--|------------|----------------|
| AC Adapter 1 | Brand Name | Huawei Technologies Co., Ltd. | Model Name | HW-100400U00 |
| | Manufacturer | Huawei Technologies Co., Ltd. | | |
| | Power Rating | I/P: 100 - 240 Vac~50/60Hz, 1.2 A; O/P: 5V $\overline{=}$ 2A or 9V $\overline{=}$ 2A or 10V $\overline{=}$ 4A | | |
| AC Adapter 2 | Brand Name | Huawei Technologies Co., Ltd. | Model Name | HW-100400E00 |
| | Manufacturer | Huawei Technologies Co., Ltd. | | |
| | Power Rating | I/P: 100 - 240 Vac~50/60Hz, 1.2 A; O/P: 5V $\overline{=}$ 2A or 9V $\overline{=}$ 2A or 10V $\overline{=}$ 4A | | |
| AC Adapter 3 | Brand Name | Huawei Technologies Co., Ltd. | Model Name | HW-100400B00 |
| | Manufacturer | Huawei Technologies Co., Ltd. | | |
| | Power Rating | I/P: 100 - 240 Vac~50/60Hz, 1.2 A; O/P: 5V $\overline{=}$ 2A or 9V $\overline{=}$ 2A or 10V $\overline{=}$ 4A | | |
| AC Adapter 4 | Brand Name | Huawei Technologies Co., Ltd. | Model Name | HW-100400A00 |
| | Manufacturer | Huawei Technologies Co., Ltd. | | |
| | Power Rating | I/P: 100 - 240 Vac~50/60Hz, 1.2 A; O/P: 5V $\overline{=}$ 2A or 9V $\overline{=}$ 2A or 10V $\overline{=}$ 4A | | |
| Battery 1 | Brand Name | Huawei Technologies Co., Ltd. | Model Name | HB486486ECW |
| | Power Rating | Nominal Voltage: $\overline{=}$ +3.82Vdc Charging Voltage: $\overline{=}$ +4.4V Rated Capacity: 4100mAh | Type | Li-ion Polymer |
| Battery 2 | Brand Name | Huawei Technologies Co., Ltd. | Model Name | HB486486ECW |
| | Power Rating | Nominal Voltage: $\overline{=}$ +3.82Vdc Charging Voltage: $\overline{=}$ +4.4V Rated Capacity: 4100mAh | Type | Li-ion Polymer |
| Battery 3 | Brand Name | Huawei Technologies Co., Ltd. | Model Name | HB486486ECW |
| | Power Rating | Nominal Voltage: $\overline{=}$ +3.82Vdc Charging Voltage: $\overline{=}$ +4.4V Rated Capacity: 4100mAh | Type | Li-ion Polymer |
| Earphone 1 | Brand Name | Jiangxi Lianchuang Hongsheng Electronic Co. ,LTD | | |
| | Model Name | MEND1632B729003 | | |
| Earphone 2 | Brand Name | GoerTek Inc. | | |
| | Model Name | Windy-S | | |
| Earphone 3 | Brand Name | Boluo County Quancheng Electronic Co., ltd | | |
| | Model Name | 1331-3301-6001-TC-088 | | |
| Earphone 4 | Brand Name | Foster Electric Co.,(GuangZhou)LTD.Sales Dep. | | |
| | Model Name | 630276 | | |

Note: Regarding to more detail and other information, please refer to user manual.



1.2 Table for Multiple Listing

The brand/model names in the following table are all refer to the identical product.

| Model | LYA-L29 | LYA-L0C | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|---|-------|-------|-----|-------|-------|--------|-------|-------|-------|-------|--|-------|--------|-------|--|-----|-----|-------|------|-----|-----|-----|
| PCB | The same | The same | | | | | | | | | | | | | | | | | | | | | | |
| Frequency-GSM | The same | The same | | | | | | | | | | | | | | | | | | | | | | |
| Frequency-WCDMA | The same | The same | | | | | | | | | | | | | | | | | | | | | | |
| Frequency-LTE | Different B2/4/5/7/12/17/38/40/41 (2545~2655MHz , support AXGP) | Different B2/4/5/7/12/17/38/40/41 (2545~2655MHz , support AXGP)/B66 | | | | | | | | | | | | | | | | | | | | | | |
| 4*4 Mimo | Different Support B3、 B7、 B1 | Different Support B2、 B7、 B66(B4) Replace TRI SAW filters of B1/B3/B7 with SAW filters of B2/B66/B7. Replace | | | | | | | | | | | | | | | | | | | | | | |
| SIM Card | Dual | Single | | | | | | | | | | | | | | | | | | | | | | |
| RF NV parameters | Different | <p>Different</p> <p>The power of LYA-L0C is different from LYA-L29 by change RF NV parameters.</p> <ul style="list-style-type: none"> Down antenna (Primary) <p>① 0mm body Scenario</p> <table border="1"> <tr> <td></td> <td>WB2</td> <td>WB4</td> <td>LTEB2</td> <td>LTEB4</td> </tr> <tr> <td>reduce</td> <td>0.5dB</td> <td>0.5dB</td> <td>0.5dB</td> <td>1.5dB</td> </tr> </table> <p>② 10mm hotspot Scenario</p> <table border="1"> <tr> <td></td> <td>LTEB4</td> </tr> <tr> <td>reduce</td> <td>0.5dB</td> </tr> </table> <ul style="list-style-type: none"> Up antenna (Secondary) <p>Head Scenario</p> <table border="1"> <tr> <td></td> <td>WB2</td> <td>WB4</td> <td>LTEB2</td> </tr> <tr> <td>rise</td> <td>1dB</td> <td>1dB</td> <td>1dB</td> </tr> </table> | | WB2 | WB4 | LTEB2 | LTEB4 | reduce | 0.5dB | 0.5dB | 0.5dB | 1.5dB | | LTEB4 | reduce | 0.5dB | | WB2 | WB4 | LTEB2 | rise | 1dB | 1dB | 1dB |
| | WB2 | WB4 | LTEB2 | LTEB4 | | | | | | | | | | | | | | | | | | | | |
| reduce | 0.5dB | 0.5dB | 0.5dB | 1.5dB | | | | | | | | | | | | | | | | | | | | |
| | LTEB4 | | | | | | | | | | | | | | | | | | | | | | | |
| reduce | 0.5dB | | | | | | | | | | | | | | | | | | | | | | | |
| | WB2 | WB4 | LTEB2 | | | | | | | | | | | | | | | | | | | | | |
| rise | 1dB | 1dB | 1dB | | | | | | | | | | | | | | | | | | | | | |



| | | |
|-------------------|--|---|
| <p>Hardware</p> | <p>Different</p> <p>Location ID: Z4102, Z4302, Z4401</p> <p>Description: B1/3/7 Tri saw filter, 2140MHz.</p> <p>Location ID: Z4103</p> <p>Description: SAW filter -1960MHz</p> | <p>Different</p> <p>1) Replace TRI SAW filters of B1/B3/B7 with SAW filters of B2/B66/B7.</p> <p>Replace</p> <p>Location ID: Z4102, Z4302, Z4401</p> <p>Description: B2/B66/B7 Tri saw filter, 2655MHz.</p> <p>2) Delete some chip inductors in Peripheral RF Matching circuits of the diversity circuit, MIMO main circuit, and MIMO diversity circuit.</p> <p>Delete</p> <p>Location ID: L4126 L4127 L4130 L3506</p> <p>Description: Chip inductor</p> <p>0.018uH/0.001uH/0.0022uH/0.0039uH</p> <p>3) Delete The circuits related to the B32 frequency band.</p> <p>Delete:</p> <p>Location ID: Z3502, Z4104</p> <p>Description: B32 saw filter 1474MHz</p> <p>Location ID: C3512, C5401, C5405</p> <p>Description: Ceramic capacitor 0.033nF</p> <p>Location ID: Z5403</p> <p>Description: Ceramic filter -1710MHz</p> <p>Location ID: U3503, U4101</p> <p>Description: RF low noise amplifier -1559~1610MHz</p> <p>4) Replace B3 SAW filter with B2 SAW filter and slight change of Peripheral RF matching circuits.</p> <p>Replace:</p> <p>Location ID: Z4103</p> <p>Description: SAW filter -1842.5MHz</p> <p>Delete:</p> <p>Location ID: L3502 L3516 L4129</p> <p>Description: Chip inductor</p> <p>0.0056uH/0.002uH/0.0075uH</p> <p>Location ID: C3514, C4110</p> <p>Description: Ceramic capacitor 0.018nF</p> |
| <p>Software</p> | <p>Different</p> | <p>Different</p> |
| <p>Dimensions</p> | <p>The same</p> | <p>The same</p> |



| | | |
|---------------------------------------|---|--|
| Appearance | The same | The same |
| main antenna | The same | The same |
| BT/Wi-Fi antenna | The same | The same |
| DIV antenna | The same | The same |
| Supported CA configurations for DL CA | <p>Different</p> <p>support:CA_1A-3A CA_1C-3A CA_1A-3C CA_1A-3A-3A CA_1C-3C CA_1A-3D CA_1C-3D CA_1A-7A-7A CA_1A-32A CA_1A-38A CA_1A-38C CA_1A-40A CA_1A-40C CA_1A-41A CA_1A-41C CA_3A-3A-7A CA_3A-7A-7A CA_3A-3A-7A-7A CA_3A-3A-8A CA_3A-32A CA_3C-32A CA_3A-38A CA_3C-38A CA_3A-38C CA_3C-38C CA_3A-40A CA_3A-40C CA_3A-40D CA_3A-41A CA_7A-7A-8A CA_7A-32A CA_8A-32A CA_20A-32A CA_1A-3A-5A CA_1A-3C-5A CA_1A-3A-7A CA_1C-3A-7A CA_1A-3C-7A CA_1A-3A-3A-7A CA_1A-3A-7C CA_1A-3A-7A-7A CA_1C-3C-7A CA_1A-3A-3A-7A-7A CA_1A-3A-8A CA_1A-3C-8A CA_1A-3A-19A CA_1A-3A-20A CA_1A-3C-20A CA_1A-3A-26A CA_1A-3A-28A CA_1A-3C-28A CA_1A-3A-32A CA_1A-3A-38A CA_1A-3C-38A CA_1A-3A-38C CA_1A-3C-38C CA_1A-28A-40C CA_3A-3A-7A-8A CA_3A-7A-7A-8A CA_3A-3A-7A-7A-8A CA_3A-3A-7A-20A CA_3A-7A-32A CA_3C-7A-32A CA_3A-8A-38A CA_3C-8A-38A CA_3A-20A-32A CA_3A-28A-40A CA_3A-28A-40C CA_3A-28A-40D CA_7A-8A-32A CA_7A-20A-32A CA_1A-3A-7A-8A CA_1A-3C-7A-8A CA_1A-3A-7A-20A CA_1A-3C-7A-20A CA_1A-3A-7A-28A CA_1A-3A-7C-28A CA_1A-3A-7A-32A CA_1A-3A-8A-38A CA_1A-3A-20A-32A CA_1A-3A-28A-40A CA_1A-3A-28A-40C CA_1A-7A-20A-32A CA_3A-7A-20A-32A CA_1A-3A-7A-20A-32A</p> <p>unsupport:CA_66B CA_66C CA_66D CA_2A-2A</p> | <p>Different</p> <p>unsupport:CA_1A-3A CA_1C-3A CA_1A-3C CA_1A-3A-3A CA_1C-3C CA_1A-3D CA_1C-3D CA_1A-7A-7A CA_1A-32A CA_1A-38A CA_1A-38C CA_1A-40A CA_1A-40C CA_1A-41A CA_1A-41C CA_3A-3A-7A CA_3A-7A-7A CA_3A-3A-7A-7A CA_3A-3A-8A CA_3A-32A CA_3C-32A CA_3A-38A CA_3C-38A CA_3A-38C CA_3C-38C CA_3A-40A CA_3A-40C CA_3A-40D CA_3A-41A CA_7A-7A-8A CA_7A-32A CA_8A-32A CA_20A-32A CA_1A-3A-5A CA_1A-3C-5A CA_1A-3A-7A CA_1C-3A-7A CA_1A-3C-7A CA_1A-3A-3A-7A CA_1A-3A-7C CA_1A-3A-7A-7A CA_1C-3C-7A CA_1A-3A-3A-7A-7A CA_1A-3A-8A CA_1A-3C-8A CA_1A-3A-19A CA_1A-3A-20A CA_1A-3C-20A CA_1A-3A-26A CA_1A-3A-28A CA_1A-3C-28A CA_1A-3A-32A CA_1A-3A-38A CA_1A-3C-38A CA_1A-3A-38C CA_1A-3C-38C CA_1A-28A-40C CA_3A-3A-7A-8A CA_3A-7A-7A-8A CA_3A-3A-7A-7A-8A CA_3A-3A-7A-20A CA_3A-7A-32A CA_3C-7A-32A CA_3A-8A-38A CA_3C-8A-38A CA_3A-20A-32A CA_3A-28A-40A CA_3A-28A-40C CA_3A-28A-40D CA_7A-8A-32A CA_7A-20A-32A CA_1A-3A-7A-8A CA_1A-3C-7A-8A CA_1A-3A-7A-20A CA_1A-3C-7A-20A CA_1A-3A-7A-28A CA_1A-3A-7C-28A CA_1A-3A-7A-32A CA_1A-3A-8A-38A CA_1A-3A-20A-32A CA_1A-3A-28A-40A CA_1A-3A-28A-40C CA_1A-7A-20A-32A CA_3A-7A-20A-32A CA_1A-3A-7A-20A-32A</p> <p>support:CA_66B CA_66C CA_66D CA_2A-2A CA_4A-4A CA_12A-12A CA_66A-66A CA_2A-4A</p> |



| | | |
|---------------------------------------|--|---|
| | <p>CA_4A-4A CA_12A-12A CA_66A-66A CA_2A-4A CA_2C-4A CA_2A-4A-4A CA_2A-5A CA_2A-7A CA_2A-7C CA_2A-7A-7A CA_2A-12A CA_2A-2A-12A CA_2A-12B CA_2A-12A-12A CA_2A-17A CA_2A-28A CA_2A-66A CA_2A-2A-66A CA_4A-5A CA_4A-4A-5A CA_4A-7A CA_4A-4A-7A CA_4A-7C CA_4A-7A-7A CA_4A-12A CA_4A-4A-12A CA_4A-12B CA_4A-12A-12A CA_4A-17A CA_4A-28A CA_7A-12A CA_7A-12B CA_7A-12A-12A CA_7A-66A CA_7C-66A CA_7A-66A-66A CA_7C-66A-66A CA_12A-66A CA_12B-66A CA_12A-66A-66A CA_2A-4A-5A CA_2A-4A-7A CA_2A-4A-7C CA_2A-4A-7A-7A CA_2A-4A-12A CA_2A-4A-12A-12A CA_2A-4A-28A CA_2A-7A-12A CA_2A-7A-12B CA_2A-7A-12A-12A CA_2A-7A-66A CA_2A-12A-66A CA_2A-2A-12A-66A CA_2A-12B-66A CA_4A-5A-7A CA_4A-7A-12A CA_4A-7A-12B CA_4A-7A-12A-12A CA_7A-12A-66A CA_7A-12B-66A CA_2A-4A-7A-12A CA_2A-7A-12A-66A CA_2A-7A-12B-66A CA_2A-7A-7A-66A-66A CA_2A-7A-7A-66A CA_2A-7A-66A-66A CA_7A-7A-66A CA_7A-7A-66A-66A CA_2A-66A-66A</p> | <p>CA_2C-4A CA_2A-4A-4A CA_2A-5A CA_2A-7A CA_2A-7C CA_2A-7A-7A CA_2A-12A CA_2A-2A-12A CA_2A-12B CA_2A-12A-12A CA_2A-17A CA_2A-28A CA_2A-66A CA_2A-2A-66A CA_4A-5A CA_4A-4A-5A CA_4A-7A CA_4A-4A-7A CA_4A-7C CA_4A-7A-7A CA_4A-12A CA_4A-4A-12A CA_4A-12B CA_4A-12A-12A CA_4A-17A CA_4A-28A CA_7A-12A CA_7A-12B CA_7A-12A-12A CA_7A-66A CA_7C-66A CA_7A-66A-66A CA_7C-66A-66A CA_12A-66A CA_12B-66A CA_12A-66A-66A CA_2A-4A-5A CA_2A-4A-7A CA_2A-4A-7C CA_2A-4A-7A-7A CA_2A-4A-12A CA_2A-4A-12A-12A CA_2A-4A-28A CA_2A-7A-12A CA_2A-7A-12B CA_2A-7A-12A-12A CA_2A-7A-66A CA_2A-12A-66A CA_2A-2A-12A-66A CA_2A-12B-66A CA_4A-5A-7A CA_4A-7A-12A CA_4A-7A-12B CA_4A-7A-12A-12A CA_7A-12A-66A CA_7A-12B-66A CA_2A-4A-7A-12A CA_2A-7A-12A-66A CA_2A-7A-12B-66A CA_2A-7A-7A-66A-66A CA_2A-7A-7A-66A CA_2A-7A-66A-66A CA_7A-7A-66A CA_7A-7A-66A-66A CA_2A-66A-66A</p> |
| Supported CA configurations for UL CA | Different support:CA_3A-20A CA_7A-20A | Different Unsupport:CA_3A-20A CA_7A-20A |
| Others | NA | NA |

1.3 Modification of EUT

No modifications are made to the EUT during all test items.



Appendix A. Original Report

Please refer to Sporton report number FG880204A.