

# FCC SAR TEST REPORT

For

RFinder.LLC

RFinder B1

Model No.:B1

FCC ID:2AU3C-B1

Prepared For : **RFinder.LLC**Address : Room 302, Building A, Huahan Technology, No. 16 Langshan Road,  
Nanshan District, Shenzhen, China

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

Address : 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan  
District, Shenzhen, Guangdong, China

Tel:(86)755-26066440 Fax:(86)755-26014772

Report Number : SZAWW191017009-01

Date of Test : Dec.1, 2019 ~ Dec.06,2019

Date of Report : Dec.10,2019

**Shenzhen Anbotek Compliance Laboratory Limited**Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel:(86)755-26066440 Fax:(86)755-26014772 Email:service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

# Contents

|                                                     |    |
|-----------------------------------------------------|----|
| 1. Statement of Compliance .....                    | 6  |
| 2. General Information .....                        | 7  |
| 2.1 Client Information .....                        | 7  |
| 2.2 Testing Laboratory Information .....            | 7  |
| 2.3 Description of Equipment Under Test(EUT) .....  | 7  |
| 2.4 Device Category and SAR Limits .....            | 10 |
| 2.5 Applied Standard .....                          | 10 |
| 2.6 Environment of Test Site .....                  | 11 |
| 2.7 Test Configuration .....                        | 11 |
| 3. Specific Absorption Rate (SAR) .....             | 12 |
| 3.1 Introduction .....                              | 12 |
| 3.2 SAR Definition .....                            | 12 |
| 4. SAR Measurement System .....                     | 13 |
| 4.1 E-Field Probe .....                             | 14 |
| 4.2 Data Acquisition Electronics (DAE) .....        | 14 |
| 4.3 Robot .....                                     | 15 |
| 4.4 Measurement Server .....                        | 15 |
| 4.5 Phantom .....                                   | 16 |
| 4.6 Device Holder .....                             | 17 |
| 4.7 Data Storage and Evaluation .....               | 18 |
| 5. Test Equipment List .....                        | 20 |
| 6. Tissue Simulating Liquids .....                  | 21 |
| 7. System Verification Procedures .....             | 25 |
| 8. EUT Testing Position .....                       | 28 |
| 8.1 Define two imaginary lines on the handset ..... | 28 |
| 8.2 Position for Cheek/Touch .....                  | 29 |
| 8.3 Position for Ear / 15°Tilt .....                | 29 |
| 8.4 Body Worn Position .....                        | 30 |
| 9. Measurement Procedures .....                     | 31 |
| 9.1 Spatial Peak SAR Evaluation .....               | 31 |
| 9.2 Power Reference Measurement .....               | 32 |
| 9.3 Area & Zoom Scan Procedures .....               | 32 |
| 9.4 Zoom Scan Procedures .....                      | 32 |
| 9.5 Volume Scan Procedures .....                    | 33 |
| 9.6 Power Drift Monitoring .....                    | 33 |
| 10. Conducted Power .....                           | 34 |
| 11. Maximum Tune-up Limit .....                     | 56 |
| 12. Antenna Location .....                          | 61 |
| 13. SAR Test Results Summary .....                  | 62 |
| 14. SAR Measurement Variability .....               | 81 |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|                                                       |     |
|-------------------------------------------------------|-----|
| 15. Simultaneous Transmission Analysis .....          | 82  |
| 16. Measurement Uncertainty .....                     | 96  |
| Appendix A. EUT Photos and Test Setup Photos .....    | 98  |
| Appendix B. Plots of SAR System Check .....           | 101 |
| Appendix C. Plots of SAR Test Data .....              | 121 |
| Appendix D. DASY System Calibration Certificate ..... | 157 |
| Appendix E. Extended Calibration SAR Dipole .....     | 258 |

## TEST REPORT

Applicant : RFinder.LLC  
Manufacturer : Shenzhen Tinfull Technology Co.,Ltd.  
Product Name : RFinder B1  
Model No. : B1  
Trade Mark : /  
Rating(s) : DC 7.6V from battery

Test Standard(s) : IEEE 1528-2013; IEC 62209-2:2010; ANSI/IEEE C95.1:2005; FCC 47 CFR Part 2 (2.1093:2013);

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the IEEE 1528-2013, IEC 62209-2:2010, FCC 47 CFR Part 2 (2.1093:2013), ANSI/IEEE C95.1:2005 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test

Dec.1, 2019 ~ Dec.06, 2019

Prepared By



*Bobby Wang*

(Engineer/Bobby Wang)

Reviewer

*Calvin Liu*

(Supervisor / Calvin Liu)

Approved & Authorized Signer

*Tom Chen*

(Manager/TomChen)

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## Version

| Version No. | Date         | Description |
|-------------|--------------|-------------|
| 01          | Dec.10, 2019 | Original    |
|             |              |             |
|             |              |             |
|             |              |             |
|             |              |             |
|             |              |             |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## 1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing areas follows.

### <Highest SAR Summary>

| Frequency Band          | Highest Reported 1g-SAR(W/Kg) |       |         | SAR Test Limit<br>(W/Kg) |
|-------------------------|-------------------------------|-------|---------|--------------------------|
|                         | Head                          | Body  | Hotspot |                          |
| <b>GSM850</b>           | 0.389                         | 0.205 | 0.205   | <b>1.6</b>               |
| <b>PCS1900</b>          | 0.368                         | 0.107 | 0.107   | <b>1.6</b>               |
| <b>WCDMA II</b>         | 0.354                         | 0.211 | 0.211   | <b>1.6</b>               |
| <b>WCDMA V</b>          | 0.302                         | 0.203 | 0.203   | <b>1.6</b>               |
| <b>LTE Band 2</b>       | 0.233                         | 0.203 | 0.203   | <b>1.6</b>               |
| <b>LTE Band 4</b>       | 0.269                         | 0.327 | 0.327   | <b>1.6</b>               |
| <b>LTE Band 5</b>       | 0.528                         | 0.436 | 0.436   | <b>1.6</b>               |
| <b>LTE Band 7</b>       | 0.184                         | 0.277 | 0.277   | <b>1.6</b>               |
| <b>LTE Band 12</b>      | 0.353                         | 0.172 | 0.172   | <b>1.6</b>               |
| <b>LTE Band 17</b>      | 0.252                         | 0.194 | 0.194   | <b>1.6</b>               |
| <b>LTE Band 26</b>      | 0.213                         | 0.204 | 0.204   | <b>1.6</b>               |
| <b>LTE Band 38</b>      | 0.090                         | 0.124 | 0.124   | <b>1.6</b>               |
| <b>LTE Band 41</b>      | 0.073                         | 0.419 | 0.419   | <b>1.6</b>               |
| <b>WIFI 2.4G</b>        | 0.321                         | 0.158 | 0.158   | <b>1.6</b>               |
| <b>WIFI 5G</b>          | 0.265                         | 0.201 | 0.201   | <b>1.6</b>               |
| <b>PTT</b>              | 0.778                         | 1.672 | N/A     | <b>8.0</b>               |
| <b>Simultaneous SAR</b> | <b>Head</b>                   |       | 0.849   | <b>1.6</b>               |
|                         | <b>Body &amp; Hotspot</b>     |       | 0.637   | <b>1.6</b>               |
|                         | <b>Head (CMRS/PLMRS)</b>      |       | 0.963   | <b>8.0</b>               |
|                         | <b>Body (CMRS/PLMRS)</b>      |       | 2.214   | <b>8.0</b>               |
| <b>Test Result</b>      | <b>Pass</b>                   |       |         |                          |

Note:

1. This device supports both LTE Band 12 and LTE Band 17. Since the supported frequency span for LTE Band 17 falls completely within the supported frequency span for LTE Band 12, LTE Band 17 target power is less than or equal to LTE Band 12 target power, and both LTE bands share the same transmission path, SAR was only assessed for LTE Band 12.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com

Hotline  
400-003-0500  
www.anbotek.com

## 2. General Information

### 2.1 Client Information

|                                |                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant:</b>              | <b>RFinder.LLC</b>                                                                                                                       |
| <b>Address of Applicant:</b>   | 455 sunrise highway West Islip New York 11795 USA.                                                                                       |
| <b>Manufacture:</b>            | <b>Shenzhen Tinfull Technology Co.,Ltd.</b>                                                                                              |
| <b>Address of Manufacture:</b> | Floor 6&8,C1 Plant, changfang Industrial Park ,julong mountain No.3 road ,dagongyeyuan ,longtian street ,Pingshan Distict,Shenzhen,China |

### 2.2 Testing Laboratory Information

|                   |                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Test Site:</b> | Shenzhen Anbotek Compliance Laboratory Limited                                                            |
| <b>Address:</b>   | 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China |

### 2.3 Description of Equipment Under Test(EUT)

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Product Name:         | RFinder B1                                    |
| Model/Type reference: | B1                                            |
| Power supply:         | DC 7.6V from battery                          |
| Hardware version:     | DT863-MB-V0.4                                 |
| Software version:     | /                                             |
| <b>GSM</b>            |                                               |
| Operation Band:       | GSM850, PCS1900                               |
| Supported Type:       | GSM/GPRS/EGPRS                                |
| Power Class:          | GSM850:Power Class 4<br>PCS1900:Power Class 1 |
| Modulation Type:      | GMSK for GPRS, 8-PSK for EGPRS                |
| GSM Release Version   | R99                                           |
| GPRS Multislot Class  | 12                                            |
| Antenna type:         | FPC antenna                                   |
| <b>WCDMA</b>          |                                               |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |              |               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|---------------|
| Operation Band:        | FDD Band II, FDD Band V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |              |               |
| Power Class:           | Power Class 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |              |               |
| Modulation Type:       | QPSK for HSUPA/HSDPA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |              |               |
| WCDMA Release Version: | Rel-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |              |               |
| HSDPA Category:        | Category 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |              |               |
| HSUPA Category:        | Category 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |              |               |
| Antenna type:          | FPC antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |              |               |
| LTE                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |              |               |
| Operation Band:        | E-UTRA Band 2, Band 4, band5, band7, band12, band13, band17, band26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |              |               |
| Support Bandwidth:     | Band 2: <input checked="" type="checkbox"/> 1.4MHz, <input checked="" type="checkbox"/> 3MHz, <input checked="" type="checkbox"/> 5MHz, <input checked="" type="checkbox"/> 10MHz, <input checked="" type="checkbox"/> 15MHz, <input checked="" type="checkbox"/> 20MHz<br>Band 4: <input checked="" type="checkbox"/> 1.4MHz, <input checked="" type="checkbox"/> 3MHz, <input checked="" type="checkbox"/> 5MHz, <input checked="" type="checkbox"/> 10MHz, <input checked="" type="checkbox"/> 15MHz, <input checked="" type="checkbox"/> 20MHz<br>Band 5: <input checked="" type="checkbox"/> 1.4MHz, <input checked="" type="checkbox"/> 3MHz, <input checked="" type="checkbox"/> 5MHz, <input checked="" type="checkbox"/> 10MHz,<br>Band 7: <input checked="" type="checkbox"/> 5MHz, <input checked="" type="checkbox"/> 10MHz, <input checked="" type="checkbox"/> 15MHz, <input checked="" type="checkbox"/> 20MHz<br>Band 12: <input checked="" type="checkbox"/> 1.4MHz, <input checked="" type="checkbox"/> 3MHz, <input checked="" type="checkbox"/> 5MHz, <input checked="" type="checkbox"/> 10MHz,<br>Band 17: <input checked="" type="checkbox"/> 5MHz, <input checked="" type="checkbox"/> 10MHz<br>Band 26: <input checked="" type="checkbox"/> 1.4MHz, <input checked="" type="checkbox"/> 3MHz, <input checked="" type="checkbox"/> 5MHz, <input checked="" type="checkbox"/> 10MHz, <input checked="" type="checkbox"/> 15MHz<br>Band 38: <input checked="" type="checkbox"/> 5MHz, <input checked="" type="checkbox"/> 10MHz, <input checked="" type="checkbox"/> 15MHz, <input checked="" type="checkbox"/> 20MHz<br>Band 41: <input checked="" type="checkbox"/> 5MHz, <input checked="" type="checkbox"/> 10MHz, <input checked="" type="checkbox"/> 15MHz, <input checked="" type="checkbox"/> 20MHz |              |              |               |
| Modulation Type:       | QPSK, 16QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |              |               |
| Release Version:       | Release 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |              |               |
| Category:              | Cat 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |              |               |
| Antenna Type:          | FPC antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |              |               |
| WIFI 2.4G              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |              |               |
| Supported type:        | 802.11b/802.11g/802.11n(H20)/802.11n(H40)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |              |               |
| Modulation:            | 802.11b: DSSS<br>802.11g/802.11n(H20)/ 802.11n(H40):OFDM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |              |               |
| Operation frequency:   | 802.11b/802.11g/802.11n(H20): 2412MHz~2462MHz<br>802.11n(H40): 2422MHz~2452MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |              |               |
| Channel number:        | 802.11b/802.11g/802.11n(H20): 11<br>802.11n(H40): 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |              |               |
| Channel separation:    | 5MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |              |               |
| Antenna type:          | FPC antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |              |               |
| WIFI 5G                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |              |               |
| Supported type:        | 20MHz system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 40MHz system | 80MHz system | 160MHz system |

Report No.: 02/WWW/10120000-01 / 0010: 2K000-D1 / Page 001 of 001

|                      |                                  |                                   |     |     |
|----------------------|----------------------------------|-----------------------------------|-----|-----|
|                      | 802.11a<br>802.11n               | 802.11n                           | N/A | N/A |
| Operation frequency: | 5180 - 5240MHz<br>5745 - 5825MHz | 5190 - 5230MHz<br>5755MHz-5795MHz | N/A | N/A |
| Modulation:          | OFDM                             | OFDM                              | N/A | N/A |
| Channel number:      | 9                                | 4                                 | N/A | N/A |
| Channel separation:  | 20MHz                            | 40MHz                             | N/A | N/A |
| Antenna type:        | FPC antenna                      |                                   |     |     |
| Antenna gain:        | 1.0dBi                           |                                   |     |     |
| Bluetooth            |                                  |                                   |     |     |
| Supported Type:      | Bluetooth BR/EDR                 |                                   |     |     |
| Modulation:          | GFSK, $\pi/4$ DQPSK, 8DPSK       |                                   |     |     |
| Operation frequency: | 2402MHz~2480MHz                  |                                   |     |     |
| Channel number:      | 79                               |                                   |     |     |
| Channel separation:  | 1MHz                             |                                   |     |     |
| Antenna type:        | FPC antenna                      |                                   |     |     |
| Antenna gain:        | 0.5dBi                           |                                   |     |     |
| Bluetooth LE         |                                  |                                   |     |     |
| Supported type:      | Bluetooth low Energy             |                                   |     |     |
| Modulation:          | GFSK                             |                                   |     |     |
| Operation frequency: | 2402MHz to 2480MHz               |                                   |     |     |
| Channel number:      | 40                               |                                   |     |     |
| Channel separation:  | 2 MHz                            |                                   |     |     |
| Antenna type:        | FPC antenna                      |                                   |     |     |
| Antenna gain:        | 0.5dBi                           |                                   |     |     |
| NFC                  |                                  |                                   |     |     |
| Operation frequency: | 13.56MHz                         |                                   |     |     |
| Modulation :         | ASK                              |                                   |     |     |
| No. ofChannel :      | 1                                |                                   |     |     |
| Antenna type:        | Loop Antenna                     |                                   |     |     |

nce Laboratory Limited

| PMR                |                                               |
|--------------------|-----------------------------------------------|
| Frequency Range    | VHF:136MHz to 174 MHz;UHF:400MHz to 470MHz    |
| Rate Power         | High power 4W and Low power 2W                |
| Modulation Type    | FM/4FSK                                       |
| Channel Separation | Analog Voice 12.5KHz<br>Digital Voice 12.5KHz |
| Antenna Type       | External antenna                              |

## 2.4 Device Category and SAR Limits

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. according to IEEE Std C95.1, 1999:((IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 KHz to 300 GHz).

It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

## 2.5 Applied Standard

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- IEEE 1528-2013
- FCC 47 CFR Part 2 (2.1093:2013)
- ANSI/IEEE C95.1:2005
- IEC 62209-2:2010
- IEC 62209-2:2010
- KDB 248227 D01
- KDB 447498 D01
- KDB 616217 D04
- KDB 648474 D04
- KDB 865664 D01
- KDB 941225 D01
- KDB 941225 D06
- KDB 941225 D07

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel:(86)755-26066440 Fax:(86)755-26014772 Email:service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## 2.6 Environment of Test Site

| Items            | Required | Actual |
|------------------|----------|--------|
| Temperature (°C) | 18-25    | 22~23  |
| Humidity (%RH)   | 30-70    | 55~65  |

## 2.7 Test Configuration

The device was controlled by using a base station emulator. Communication between the device and the emulator was established by air link. The distance between the EUT and the antenna of the emulator is larger than 50 cm and the output power radiated from the emulator antenna is at least 30 dB smaller than the output power of EUT. The EUT was set from the emulator to radiate maximum output power during all tests. For WLAN SAR testing, WLAN engineering testing software installed on the EUT can provide continuous transmitting RF signal.

### 3. Specific Absorption Rate (SAR)

#### 3.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

#### 3.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$\text{SAR} = \frac{d}{dt} \left( \frac{dW}{dm} \right) = \frac{d}{dt} \left( \frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$\text{SAR} = C \left( \frac{\delta T}{\delta t} \right)$$

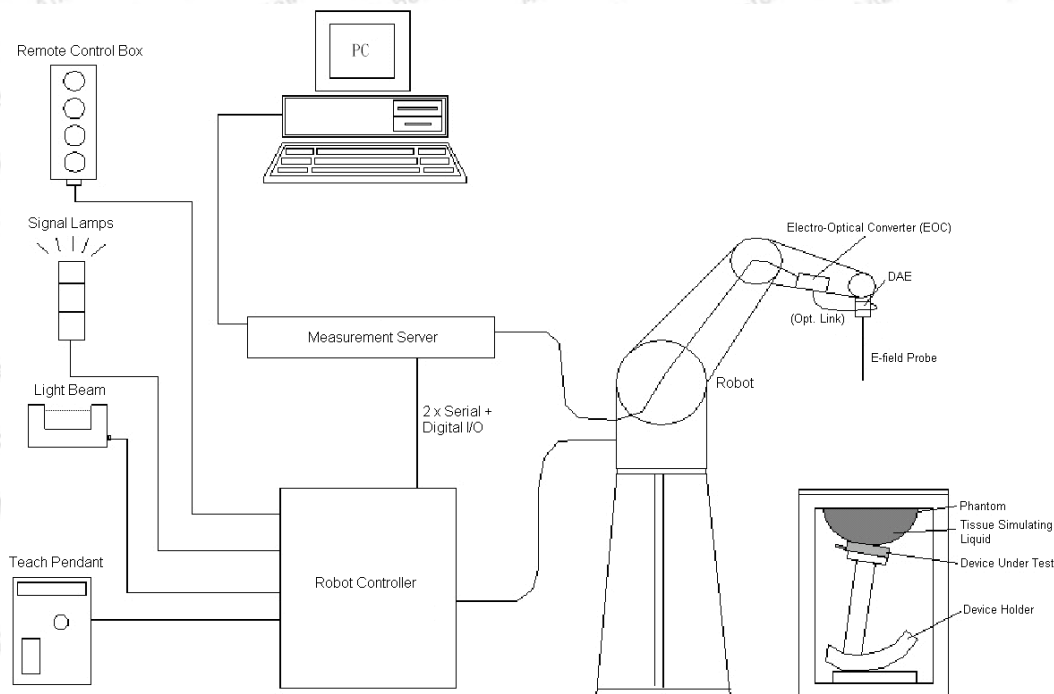
Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

$$\text{SAR} = \frac{\sigma |E|^2}{\rho}$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

## 4. SAR Measurement System



### DASY System Configurations

The DASY system for performance compliance tests is illustrated above graphically. This system consists of the following items:

- A standard high precision 6-axis robot with controller, a teach pendant and software
- A data acquisition electronic (DAE) attached to the robot arm extension
- A dosimetric probe equipped with an optical surface detector system
- The electro-optical converter (EOC) performs the conversion between optical and electrical signals
- A measurement server performs the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the accuracy of the probe positioning
- A computer operating Windows XP
- DASY software
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom
- A device holder
- Tissue simulating liquid
- Dipole for evaluating the proper functioning of the system

components are described in details in the following sub-sections.

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com

## 4.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

### ➤ E-Field Probe Specification

#### <EX3DV4 Probe>

|                      |                                                                                                                                                             |                                                                                                                |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Construction</b>  | Symmetrical design with triangular core<br>Built-in shielding against static charges<br>PEEK enclosure material (resistant to organic solvents, e.g., DGBE) | <br><b>Photo of EX3DV4</b> |
| <b>Frequency</b>     | 10 MHz to 6 GHz; Linearity: $\pm 0.2$ dB                                                                                                                    |                                                                                                                |
| <b>Directivity</b>   | $\pm 0.3$ dB in HSL (rotation around probe axis)<br>$\pm 0.5$ dB in tissue material (rotation normal to probe axis)                                         |                                                                                                                |
| <b>Dynamic Range</b> | 10 $\mu$ W/g to 100 mW/g; Linearity: $\pm 0.2$ dB<br>(noise: typically $< 1$ $\mu$ W/g)                                                                     |                                                                                                                |
| <b>Dimensions</b>    | Overall length: 330 mm (Tip: 20 mm)<br>Tip diameter: 2.5 mm (Body: 12 mm)<br>Typical distance from probe tip to dipole centers: 1 mm                        |                                                                                                                |

### ➤ E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than  $\pm 10\%$ . The spherical isotropy shall be evaluated and within  $\pm 0.25$  dB. The sensitivity parameters (NormX, NormY, and NormZ), the diode compression parameter (DCP) and the conversion factor (ConvF) of the probe are tested. The calibration data can be referred to appendix C of this report.

## 4.2 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**Photo of DAE**

### 4.3 Robot

The SPEAG DASY system uses the high precision robots (DASY5: TX60XL) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version (DASY5: CS8c) from Stäubli is used. The Stäubli robot series have many features that are important for our application:

- High precision (repeatability  $\pm 0.035$  mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

**Photo of DASY5**

### 4.4 Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY5: 400 MHz, Intel Celeron), chipdisk (DASY5: 128 MB), RAM (DASY5: 128 MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY I/O board, which is directly connected to the PC/104 bus of the CPU board.

#### **Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.



Photo of Server for DASY5

4.5 Phantom

<SAM Twin Phantom>

|                   |                                                            |
|-------------------|------------------------------------------------------------|
| Shell Thickness   | 2 ± 0.2 mm;<br>Center ear point: 6 ± 0.2 mm                |
| Filling Volume    | Approx. 25 liters                                          |
| Dimensions        | Length: 1000 mm; Width: 500 mm;<br>Height: adjustable feet |
| Measurement Areas | Left Hand, Right Hand, Flat Phantom                        |



Photo of SAM Phantom

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

<ELI4 Phantom>

|                 |                                                 |
|-----------------|-------------------------------------------------|
| Shell Thickness | 2 ± 0.2 mm (sagging: <1%)                       |
| Filling Volume  | Approx. 30 liters                               |
| Dimensions      | Major ellipse axis: 600 mm<br>Minor axis:400 mm |



Photo of ELI4 Phantom

The ELI4 phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with standard and all known tissue simulating

liquids.

#### 4.6 Device Holder

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of  $\pm 0.5\text{mm}$  would produce a SAR uncertainty of  $\pm 20\%$ . Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.

The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity  $\epsilon = 3$  and loss tangent  $\delta = 0.02$ . The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



**Device Holder**

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## 4.7 Data Storage and Evaluation

### ➤ Data Storage

The DASY software stores the assessed data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all the necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The post-processing software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of erroneous parameter settings. For example, if a measurement has been performed with an incorrect crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type (e.g., [V/m], [A/m], [mW/g]). Some of these units are not available in certain situations or give meaningless results, e.g., a SAR-output in a non-lose media, will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

### ➤ Data Evaluation

The DASY post-processing software (SEMCAD) automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

|                           |                           |                                         |
|---------------------------|---------------------------|-----------------------------------------|
| <b>Probe parameters:</b>  | - Sensitivity             | $\text{Norm}_i, a_{i0}, a_{i1}, a_{i2}$ |
|                           | - Conversion factor       | $\text{ConvF}_i$                        |
|                           | - Diode compression point | $\text{dcp}_i$                          |
| <b>Device parameters:</b> | - Frequency               | $f$                                     |
|                           | - Crest factor            | $\text{cf}$                             |
| <b>Media parameters:</b>  | - Conductivity            | $\sigma$                                |
|                           | - Density                 | $\rho$                                  |

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multi-meter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power.

The formula for each channel can be given as:

### Shenzhen Anbotek Compliance Laboratory Limited

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

with  $V_i$  = compensated signal of channel i, (i = x, y, z)

$U_i$  = input signal of channel i, (i = x, y, z)

cf = crest factor of exciting field (DASY parameter)

dcp<sub>i</sub> = diode compression point (DASY parameter)

From the compensated input signals, the primary field data for each channel can be evaluated:

$$\text{E-field Probes: } E_i = \sqrt{\frac{V_i}{\text{Norm}_i \cdot \text{ConvF}}}$$

$$\text{H-field Probes: } H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$$

with  $V_i$  = compensated signal of channel i, (i = x, y, z)

Norm<sub>i</sub> = sensor sensitivity of channel i, (i = x, y, z),  $\mu\text{V}/(\text{V}/\text{m})^2$  for E-field Probes

ConvF = sensitivity enhancement in solution

$a_{ij}$  = sensor sensitivity factors for H-field probes

f = carrier frequency [GHz]

$E_i$  = electric field strength of channel i in V/m

$H_i$  = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{\text{tot}} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.

$$\text{SAR} = E_{\text{tot}}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

with SAR = local specific absorption rate in mW/g

$E_{\text{tot}}$  = total field strength in V/m

$\sigma$  = conductivity in [mho/m] or [Siemens/m]

$\rho$  = equivalent tissue density in g/cm<sup>3</sup>

Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.

## 5. Test Equipment List

| Manufacturer | Name of Equipment             | Type/Model     | Serial Number | Calibration   |               |
|--------------|-------------------------------|----------------|---------------|---------------|---------------|
|              |                               |                |               | Last Cal.     | Due Date      |
| SPEAG        | 150MHz System Validation Kit  | CLA150         | 4024          | Feb. 21, 2018 | Feb. 20, 2021 |
| SPEAG        | 450MHz System Validation Kit  | D450V3         | 1102          | Feb. 23, 2018 | Feb. 22, 2021 |
| SPEAG        | 835MHz System Validation Kit  | D835V2         | 4d154         | Jun. 16, 2018 | Jun. 15, 2021 |
| SPEAG        | 1750MHz System Validation Kit | D1750V2        | 1021          | Jul. 03, 2019 | Jul. 02, 2022 |
| SPEAG        | 1900MHz System Validation Kit | D1900V2        | 5d175         | Jun. 15, 2019 | Jun. 14, 2022 |
| SPEAG        | 2450MHz System Validation Kit | D2450V2        | 910           | Jun. 15, 2018 | Jun. 14, 2021 |
| SPEAG        | 2600MHz System Validation Kit | D2600V2        | 1058          | Jun. 19, 2018 | Jun. 18, 2021 |
| SPEAG        | 750MHz System Validation Kit  | D750V3         | 1163          | Sep. 03, 2019 | Sep. 02, 2022 |
| SPEAG        | 5000MHz System Validation Kit | D5GHzV2        | 1003          | Mar. 13, 2018 | Mar. 12, 2021 |
| SPEAG        | Data Acquisition Electronics  | DAE4           | 1549          | Mar. 19, 2019 | Mar. 18, 2020 |
| SPEAG        | Dosimetric E-Field Probe      | EX3DV4         | 7396          | May. 06, 2019 | May. 05, 2020 |
| SPEAG        | Dosimetric E-Field Probe      | ES3DV3         | 3337          | Jul. 23, 2019 | Jul. 22, 2020 |
| Agilent      | ENA Series Network Analyzer   | E5071C         | MY46317418    | Jun. 11, 2019 | Jun. 10, 2020 |
| SPEAG        | DAK                           | DAK-3.5        | 1226          | NCR           | NCR           |
| SPEAG        | ELI Phantom                   | QDOVA004AA     | 2058          | NCR           | NCR           |
| AR           | Amplifier                     | ZHL-42W        | QA1118004     | NCR           | NCR           |
| Agilent      | Power Meter                   | N1914A         | MY50001102    | Nov. 06, 2019 | Nov. 05, 2020 |
| Agilent      | Power Sensor                  | N8481H         | MY51240001    | Nov. 06, 2019 | Nov. 05, 2020 |
| R&S          | Spectrum Analyzer             | N9020A         | MY51170037    | Nov. 06, 2019 | Nov. 05, 2020 |
| Agilent      | Signal Generation             | N5182A         | MY48180656    | Nov. 06, 2019 | Nov. 05, 2020 |
| Worken       | Directional Coupler           | 0110A05601O-10 | COM5BNW1A2    | Nov. 06, 2019 | Nov. 05, 2020 |

### Note:

1. The calibration certificate of DASY can be referred to appendix C of this report.
2. The dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The Insertion Loss calibration of Dual Directional Coupler and Attenuator were characterized via the network analyzer and compensated during system check.
4. The dielectric probe kit was calibrated via the network analyzer, with the specified procedure (calibrated in pure water) and calibration kit (standard) short circuit, before the dielectric measurement. The specific procedure and calibration kit are provided by Agilent.
5. In system check we need to monitor the level on the power meter, and adjust the power amplifier level to have precise power level to the dipole; the measured SAR will be normalized to 1W input power according to the ratio of 1W to the input power to the dipole. For system check, the calibration of the power amplifier is deemed not critically required for correct measurement; the power meter is critical and we do have calibration for it

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



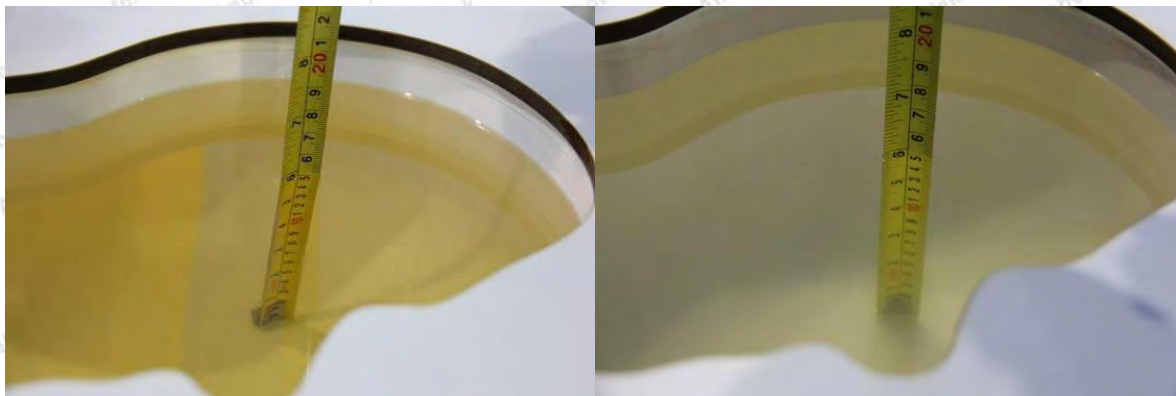
Hotline

400-003-0500

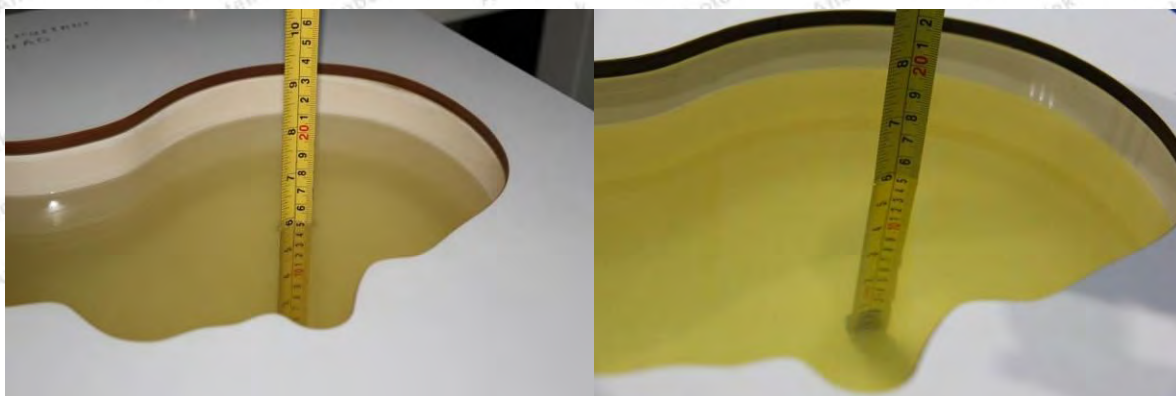
www.anbotek.com

## 6. Tissue Simulating Liquids

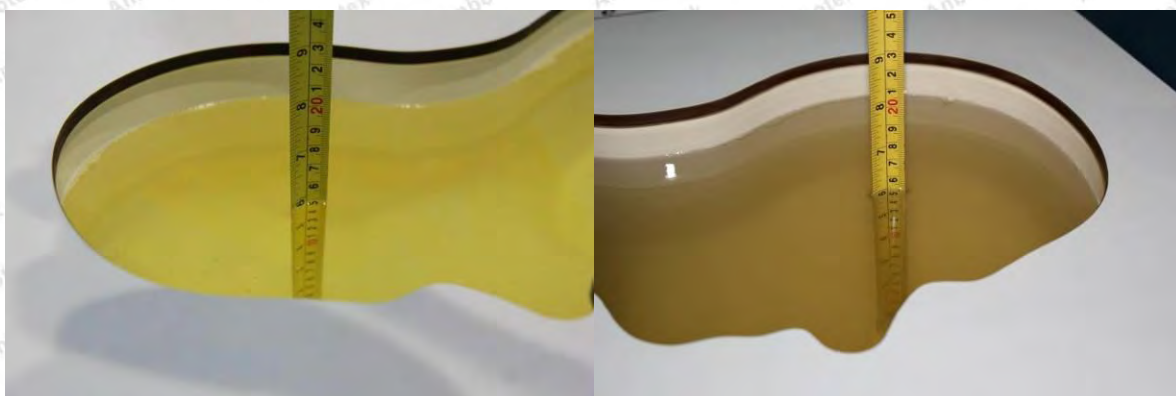
For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 6.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown as followed:



Liquid depth in the Head Phantom (750MHz) Liquid depth in the Head Phantom (835MHz)



Liquid depth in the Head Phantom (1750MHz) Liquid depth in the Head Phantom (1900MHz)



Liquid depth in the Head Phantom (2450MHz) Liquid depth in the Head Phantom (2600MHz)

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



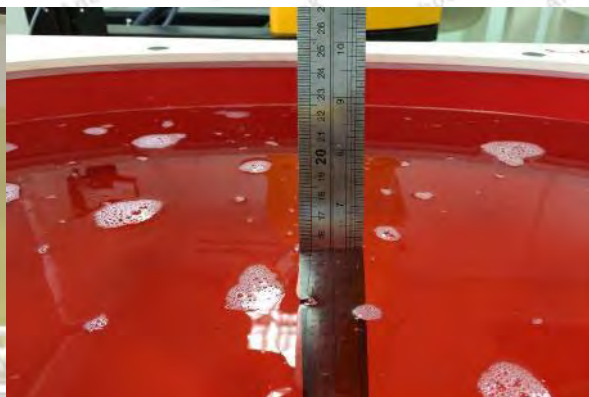
Hotline

400-003-0500

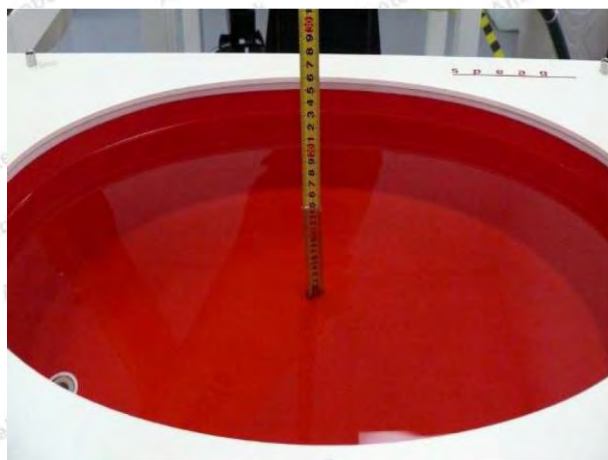
www.anbotek.com



Liquid depth in Body Phantom (5000MHz)



Liquid depth in Body Phantom (150MHz)



Liquid depth in Body Phantom (450MHz)

The following table gives the recipes for tissue simulating liquid.

| Frequency (MHz) | Water (%) | Sugar (%) | Cellulose (%) | Salt (%) | Preventol (%) | DGBE (%) | Conductivity ( $\sigma$ ) | Permittivity ( $\epsilon_r$ ) |
|-----------------|-----------|-----------|---------------|----------|---------------|----------|---------------------------|-------------------------------|
| <b>For Head</b> |           |           |               |          |               |          |                           |                               |
| 900             | 40.3      | 57.9      | 0.2           | 1.4      | 0.2           | 0        | 0.97                      | 41.5                          |
| 1750            | 55.2      | 0         | 0             | 0.3      | 0             | 44.5     | 1.37                      | 40.1                          |
| 1800,1900,2000  | 55.2      | 0         | 0             | 0.3      | 0             | 44.5     | 1.40                      | 40.0                          |
| 2450            | 55.0      | 0         | 0             | 0        | 0             | 45.0     | 1.80                      | 39.2                          |
| <b>For Body</b> |           |           |               |          |               |          |                           |                               |
| 900             | 50.8      | 48.2      | 0             | 0.9      | 0.1           | 0        | 0.97                      | 55.2                          |
| 1750            | 70.2      | 0         | 0             | 0.4      | 0             | 29.4     | 1.49                      | 53.4                          |
| 1800,1900,2000  | 70.2      | 0         | 0             | 0.4      | 0             | 29.4     | 1.52                      | 53.3                          |
| 2450            | 68.6      | 0         | 0             | 0        | 0             | 31.4     | 1.95                      | 52.7                          |

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

| INGREDIENT<br>(% Weight) | 2450MHz<br>Body | 5250MHz<br>Body | 5600MHz<br>Body | 5750MHz<br>Body |
|--------------------------|-----------------|-----------------|-----------------|-----------------|
| Water                    | 73.2            | 75.68           | 75.68           | 75.68           |
| Salt                     | 0.04            | 0.43            | 0.43            | 0.43            |
| Sugar                    | 0.00            | 0.00            | 0.00            | 0.00            |
| HEC                      | 0.00            | 0.00            | 0.00            | 0.00            |
| Preventol                | 0.00            | 0.00            | 0.00            | 0.00            |
| DGBE                     | 26.7            | 4.42            | 4.42            | 4.42            |
| Triton X-100             | 0.00            | 19.47           | 19.47           | 19.47           |

## Composition of the Head Tissue Equivalent Matter

| Mixture %                          | Frequency 150MHz                         |
|------------------------------------|------------------------------------------|
| Water                              | 38.36                                    |
| Sugar                              | 55.42                                    |
| Salt                               | 5.11                                     |
| Preventol                          | 0.10                                     |
| Cellulose                          | 1.07                                     |
| Dielectric Parameters Target Value | f=150MHz $\epsilon_r=52.3$ $\sigma=0.76$ |

## Composition of the Head Tissue Equivalent Matter

| Mixture %                          | Frequency (Brain) 450MHz                 |
|------------------------------------|------------------------------------------|
| Water                              | 38.56                                    |
| Sugar                              | 56.32                                    |
| Salt                               | 3.95                                     |
| Preventol                          | 0.10                                     |
| Cellulose                          | 1.07                                     |
| Dielectric Parameters Target Value | f=450MHz $\epsilon_r=43.5$ $\sigma=0.87$ |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

The following table shows the measuring results for simulating liquid.

**Dielectric Performance of Tissue Simulating Liquid**

| Tissue Type | Measured Frequency (MHz) | Target Tissue |              | Measured Tissue |                    |              |                    | Liquid Temp. | Test Data |
|-------------|--------------------------|---------------|--------------|-----------------|--------------------|--------------|--------------------|--------------|-----------|
|             |                          | $\sigma$      | $\epsilon_r$ | $\sigma$        | Dev. ( $\pm 5\%$ ) | $\epsilon_r$ | Dev. ( $\pm 5\%$ ) |              |           |
| 150H        | 150                      | 0.76          | 52.3         | 0.74            | -2.63%             | 51.22        | -2.07%             | 22.2         | 12/6/2019 |
| 450H        | 450                      | 0.87          | 43.5         | 0.88            | 1.15%              | 44.38        | 2.02%              | 22.2         | 12/6/2019 |
| 750H        | 750                      | 0.89          | 41.9         | 0.87            | -2.25%             | 41.87        | -0.07%             | 22.2         | 12/1/2019 |
| 835H        | 900                      | 0.90          | 41.5         | 0.95            | 5.56%              | 42.32        | 1.98%              | 22.3         | 12/2/2019 |
| 1750H       | 1750                     | 1.37          | 40.1         | 1.39            | 1.46%              | 39.84        | -0.65%             | 22.8         | 12/3/2019 |
| 1900H       | 1900                     | 1.40          | 40.0         | 1.35            | -3.57%             | 40.15        | 0.37%              | 22.6         | 12/3/2019 |
| 2450H       | 2450                     | 1.80          | 39.2         | 1.76            | -2.22%             | 38.93        | -0.69%             | 22.4         | 12/4/2019 |
| 2600H       | 2600                     | 1.96          | 39.0         | 1.89            | -3.57%             | 38.55        | -1.15%             | 22.3         | 12/4/2019 |
| 5200H       | 5200                     | 4.66          | 36.0         | 4.52            | -3.00%             | 35.89        | -0.31%             | 22.2         | 12/5/2019 |
| 5800H       | 5750                     | 5.27          | 35.3         | 5.24            | -0.57%             | 35.21        | -0.25%             | 22.2         | 12/5/2019 |
| 150B        | 150                      | 0.80          | 61.9         | 0.76            | -5.00%             | 61.79        | -0.18%             | 22.2         | 12/6/2019 |
| 450B        | 450                      | 0.94          | 56.7         | 0.96            | 2.13%              | 57.2         | 0.88%              | 22.2         | 12/6/2019 |
| 750B        | 750                      | 0.96          | 55.5         | 0.94            | -2.08%             | 55.18        | -0.58%             | 22.4         | 12/1/2019 |
| 835B        | 900                      | 0.97          | 55.2         | 0.95            | -2.06%             | 54.78        | -0.76%             | 22.6         | 12/2/2019 |
| 1750B       | 1750                     | 1.49          | 53.4         | 1.46            | -2.01%             | 54.19        | 1.48%              | 22.4         | 12/3/2019 |
| 1900B       | 1900                     | 1.52          | 53.3         | 1.55            | 1.97%              | 53.32        | 0.04%              | 22.6         | 12/3/2019 |
| 2450B       | 2450                     | 1.95          | 52.7         | 1.95            | 0.00%              | 50.69        | -3.81%             | 22.7         | 12/4/2019 |
| 2600B       | 2600                     | 2.16          | 52.5         | 2.20            | 1.85%              | 51.41        | -2.08%             | 22.5         | 12/4/2019 |
| 5200B       | 5200                     | 5.30          | 49.0         | 5.38            | 1.51%              | 47.90        | -2.24%             | 22.2         | 12/5/2019 |
| 5800B       | 57500                    | 6.00          | 48.2         | 5.82            | -3.00%             | 49.04        | 1.74%              | 22.2         | 12/5/2019 |

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com

## 7. System Verification Procedures

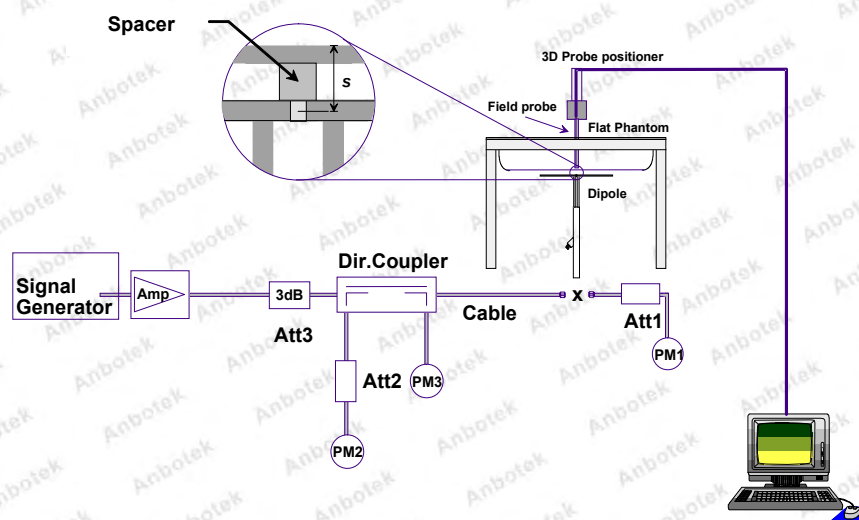
Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

### ➤ Purpose of System Performance check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

### ➤ System Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



System Setup for System Evaluation



Photo of Dipole Setup

### ➤ Validation Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. The table below shows the target SAR and measured SAR after normalized to 1W input power. It indicates that the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

| Frequency (MHz) | Liquid Type | Power fed onto reference dipole (mW) | Targeted SAR (W/kg) | Measured SAR (W/kg) | Normalized SAR (W/kg) | Deviation (%) | Date      |
|-----------------|-------------|--------------------------------------|---------------------|---------------------|-----------------------|---------------|-----------|
| 150H            | Head        | 1000                                 | 3.71                | 3.79                | 3.79                  | -0.12%        | 12/6/2019 |
| 450H            | Head        | 1000                                 | 4.48                | 1.16                | 4.64                  | -0.16%        | 12/6/2019 |
| 750H            | Head        | 250                                  | 8.53                | 2.15                | 8.60                  | 0.82%         | 12/1/2019 |
| 835H            | Head        | 250                                  | 9.24                | 2.32                | 9.28                  | 0.43%         | 12/2/2019 |
| 1750H           | Head        | 250                                  | 36.9                | 9.24                | 36.96                 | 0.16%         | 12/3/2019 |
| 1900H           | Head        | 250                                  | 40.4                | 10.12               | 40.48                 | 0.20%         | 12/3/2019 |
| 2450H           | Head        | 250                                  | 52.4                | 13.08               | 52.32                 | -0.15%        | 12/4/2019 |
| 2600H           | Head        | 250                                  | 57.2                | 14.27               | 57.08                 | -0.21%        | 12/4/2019 |
| 5200H           | Head        | 100                                  | 80.6                | 8.04                | 80.40                 | -0.25%        | 12/5/2019 |
| 5800H           | Head        | 100                                  | 78.4                | 7.86                | 78.60                 | 0.26%         | 12/5/2019 |
| 150B            | Body        | 1000                                 | 3.75                | 0.377               | 3.77                  | -1.05%        | 12/6/2019 |
| 450B            | Body        | 250                                  | 4.47                | 1.13                | 4.52                  | 0.13%         | 12/6/2019 |
| 750B            | Body        | 250                                  | 8.78                | 2.22                | 8.88                  | 1.14%         | 12/1/2019 |
| 835B            | Body        | 250                                  | 9.57                | 2.41                | 9.64                  | 0.73%         | 12/2/2019 |
| 1750B           | Body        | 250                                  | 36.7                | 9.16                | 36.64                 | -0.16%        | 12/3/2019 |
| 1900B           | Body        | 250                                  | 40.1                | 10.04               | 40.16                 | 0.15%         | 12/3/2019 |

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|       |      |     |      |       |       |        |           |
|-------|------|-----|------|-------|-------|--------|-----------|
| 2450B | Body | 250 | 51.8 | 12.93 | 51.72 | -0.15% | 12/4/2019 |
| 2600B | Body | 250 | 56.8 | 14.22 | 56.88 | 0.14%  | 12/4/2019 |
| 5200B | Body | 100 | 73.6 | 7.37  | 73.70 | 0.14%  | 12/5/2019 |
| 5800B | Body | 100 | 73.9 | 7.41  | 74.10 | 0.27%  | 12/5/2019 |

## Note:

1. The graph results see system check.
2. Target Values used derive from the calibration certificate.

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

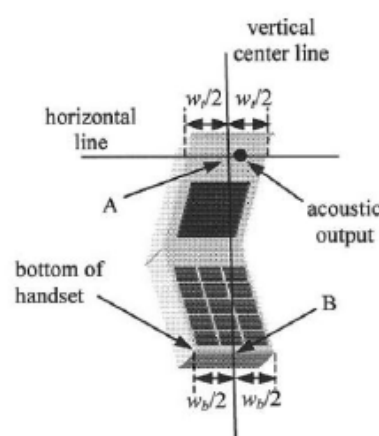
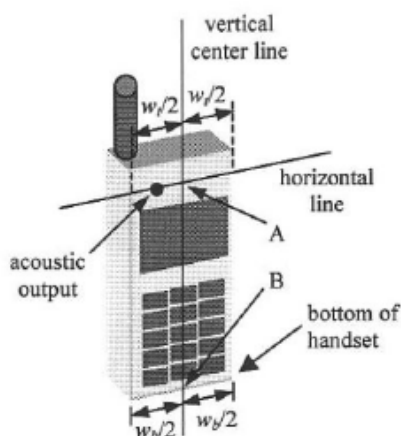
400-003-0500

www.anbotek.com

## 8. EUT Testing Position

### 8.1. Define two imaginary lines on the handset

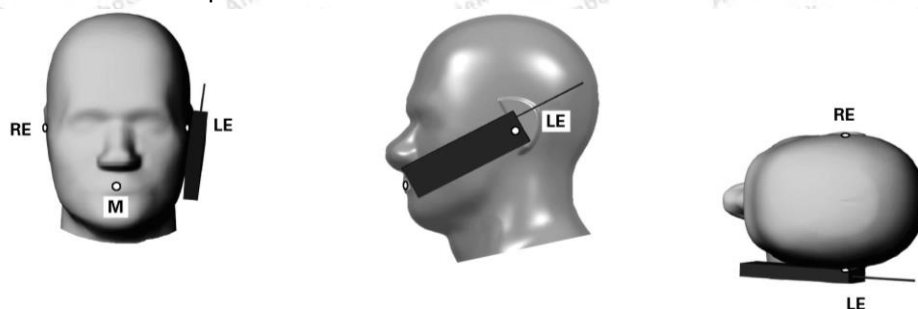
- The vertical centerline passes through two points on the front side of the handset - the midpoint of the width  $w_t$  of the handset at the level of the acoustic output, and the midpoint of the width  $w_b$  of the bottom of the handset.
- The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



Handset Vertical and Horizontal Reference Lines

## 8.2. Position for Cheek/Touch

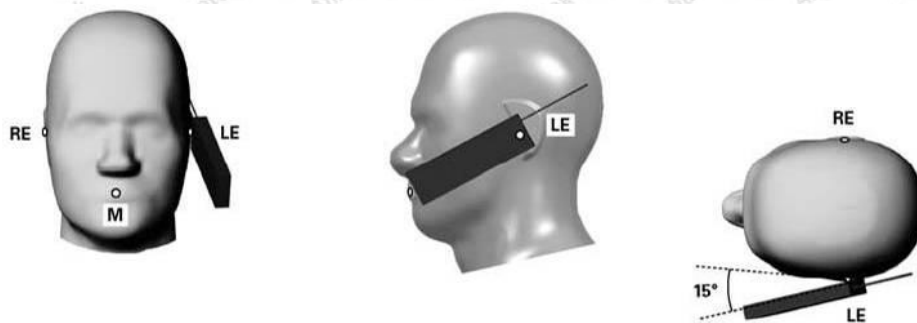
- To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.



**Cheek Position**

## 8.3. Position for Ear / 15° Tilt

- To position the device in the “cheek” position described above.
- While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see Fig. 8.3).

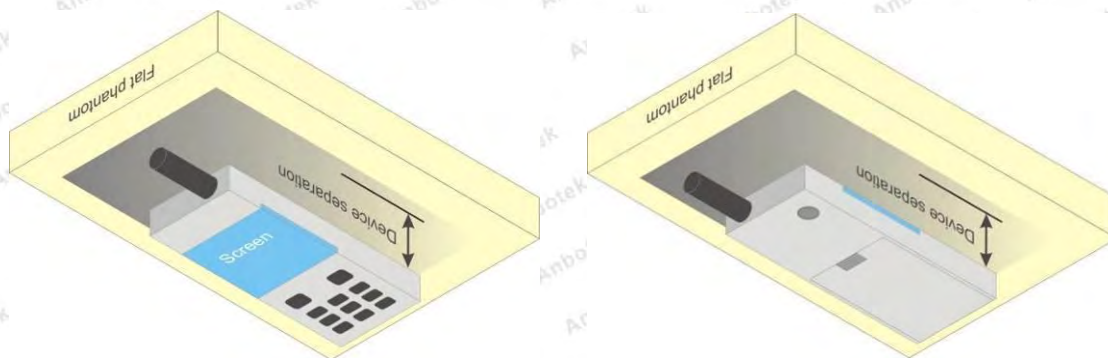


**Tilt Position**

#### 8.4. Body Worn Position

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration. Per KDB 648474 D04, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is  $< 1.2 \text{ W/kg}$ , the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset attached to the handset.

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.



Body Worn Position

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com

## 9. Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the middle channel.
- (b) Keep EUT to radiate maximum output power or 100% duty factor (if applicable)
- (c) Measure output power through RF cable and power meter.
- (d) Place the EUT in the positions as setup photos demonstrates.
- (e) Set scan area, grid size and other setting on the DASY software.
- (f) Measure SAR transmitting at the middle channel for all applicable exposure positions.
- (g) Identify the exposure position and device configuration resulting the highest SAR
- (h) Measure SAR at the lowest and highest channels at the worst exposure position and device configuration if applicable.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

### 9.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

- (f) Calculation of the averaged SAR within masses of 1g and 10g

## 9.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

## 9.3 Area & Zoom Scan Procedures

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

|                                                                                                        | ≤ 3 GHz                                                                                                                                                                                                                                                           | > 3 GHz                                                                              |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface | $5 \pm 1 \text{ mm}$                                                                                                                                                                                                                                              | $\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$                           |
| Maximum probe angle from probe axis to phantom surface normal at the measurement location              | $30^\circ \pm 1^\circ$                                                                                                                                                                                                                                            | $20^\circ \pm 1^\circ$                                                               |
| Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$                 | $\leq 2 \text{ GHz: } \leq 15 \text{ mm}$<br>$2 - 3 \text{ GHz: } \leq 12 \text{ mm}$                                                                                                                                                                             | $3 - 4 \text{ GHz: } \leq 12 \text{ mm}$<br>$4 - 6 \text{ GHz: } \leq 10 \text{ mm}$ |
|                                                                                                        | When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device. |                                                                                      |

## 9.4 Zoom Scan Procedures

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
 400-003-0500  
 www.anbotek.com

|                                                                                                                                                                                                                                                                                                                                               |                                           |                                                                                             |                                                                                     |                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$                                                                                                                                                                                                                                                        |                                           |                                                                                             | $\leq 2 \text{ GHz}: \leq 8 \text{ mm}$<br>$2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$ | $3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$<br>$4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$                                          |
| Maximum zoom scan spatial resolution, normal to phantom surface                                                                                                                                                                                                                                                                               | uniform grid: $\Delta z_{\text{Zoom}}(n)$ |                                                                                             | $\leq 5 \text{ mm}$                                                                 | $3 - 4 \text{ GHz}: \leq 4 \text{ mm}$<br>$4 - 5 \text{ GHz}: \leq 3 \text{ mm}$<br>$5 - 6 \text{ GHz}: \leq 2 \text{ mm}$    |
|                                                                                                                                                                                                                                                                                                                                               | graded grid                               | $\Delta z_{\text{Zoom}}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface | $\leq 4 \text{ mm}$                                                                 | $3 - 4 \text{ GHz}: \leq 3 \text{ mm}$<br>$4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$<br>$5 - 6 \text{ GHz}: \leq 2 \text{ mm}$  |
|                                                                                                                                                                                                                                                                                                                                               |                                           | $\Delta z_{\text{Zoom}}(n>1)$ : between subsequent points                                   | $\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$                                        |                                                                                                                               |
| Minimum zoom scan volume                                                                                                                                                                                                                                                                                                                      | x, y, z                                   |                                                                                             | $\geq 30 \text{ mm}$                                                                | $3 - 4 \text{ GHz}: \geq 28 \text{ mm}$<br>$4 - 5 \text{ GHz}: \geq 25 \text{ mm}$<br>$5 - 6 \text{ GHz}: \geq 22 \text{ mm}$ |
| Note: $\delta$ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.                                                                                                                                                                                             |                                           |                                                                                             |                                                                                     |                                                                                                                               |
| * When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$ , $\leq 8 \text{ mm}$ , $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz. |                                           |                                                                                             |                                                                                     |                                                                                                                               |

## 9.5 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

## 9.6 Power Drift Monitoring

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the same settings. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

## 10. Conducted Power

### <GSM Conducted power>

#### Conducted power measurement results (GSM850/1900)

| Band GSM850                    | Burst Average Power (dBm) |        |        | Frame-Average Power (dBm) |        |        |
|--------------------------------|---------------------------|--------|--------|---------------------------|--------|--------|
| TX Channel                     | CH128                     | CH190  | CH251  | CH128                     | CH190  | CH251  |
| Frequency (MHz)                | 824.2                     | 836.6  | 848.8  | 824.2                     | 836.6  | 848.8  |
| GSM (GMSK, 1 Tx slot)          | 31.84                     | 31.75  | 31.63  | 22.84                     | 22.75  | 22.63  |
| GPRS (GMSK, 1 Tx slot) – CS1   | 31.56                     | 31.54  | 31.63  | 22.56                     | 22.54  | 22.63  |
| GPRS (GMSK, 2 Tx slots) – CS1  | 29.75                     | 29.95  | 29.87  | 23.75                     | 23.95  | 23.87  |
| GPRS (GMSK, 3 Tx slots) – CS1  | 28.32                     | 28.44  | 28.45  | 24.06                     | 24.18  | 24.19  |
| GPRS (GMSK, 4 Tx slots) – CS1  | 26.61                     | 26.75  | 26.94  | 23.61                     | 23.75  | 23.94  |
| EDGE (8PSK, 1 Tx slot) – MCS1  | 25.19                     | 25.06  | 24.95  | 16.19                     | 16.06  | 15.95  |
| EDGE (8PSK, 2 Tx slots) – MCS1 | 25.11                     | 24.94  | 24.85  | 19.11                     | 18.94  | 18.85  |
| EDGE (8PSK, 3 Tx slots) – MCS1 | 24.32                     | 24.15  | 24.29  | 20.06                     | 19.89  | 20.03  |
| EDGE (8PSK, 4 Tx slots) – MCS1 | 23.69                     | 23.46  | 23.57  | 20.69                     | 20.46  | 20.57  |
| Band GSM1900                   | Burst Average Power (dBm) |        |        | Frame-Average Power (dBm) |        |        |
| TX Channel                     | CH512                     | CH661  | CH810  | CH512                     | CH661  | CH810  |
| Frequency (MHz)                | 1850.2                    | 1880.0 | 1909.8 | 1850.2                    | 1880.0 | 1909.8 |
| GSM (GMSK, 1 Tx slot)          | 29.69                     | 29.88  | 29.74  | 20.69                     | 20.88  | 20.74  |
| GPRS (GMSK, 1 Tx slot) – CS1   | 29.77                     | 29.75  | 29.65  | 20.77                     | 20.75  | 20.65  |
| GPRS (GMSK, 2 Tx slots) – CS1  | 28.02                     | 28.05  | 28.03  | 22.02                     | 22.05  | 22.03  |
| GPRS (GMSK, 3 Tx slots) – CS1  | 26.54                     | 26.74  | 26.69  | 22.28                     | 22.48  | 22.43  |
| GPRS (GMSK, 4 Tx slots) – CS1  | 24.57                     | 24.61  | 24.79  | 21.57                     | 21.61  | 21.79  |
| EDGE (8PSK, 1 Tx slot) – MCS1  | 24.29                     | 24.35  | 24.12  | 15.29                     | 15.35  | 15.12  |
| EDGE (8PSK, 2 Tx slots) – MCS1 | 24.03                     | 24.19  | 23.97  | 18.03                     | 18.19  | 17.97  |
| EDGE (8PSK, 3 Tx slots) – MCS1 | 23.91                     | 24.04  | 23.85  | 19.65                     | 19.78  | 19.59  |
| EDGE (8PSK, 4 Tx slots) – MCS1 | 23.14                     | 23.11  | 22.97  | 20.14                     | 20.11  | 19.97  |

#### NOTES:

##### 1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

##### 2) According to the conducted power as above, the GPRS/EGPRS measurements are performed with 3Txslots for GPRS/EGPRS 850 and GPRS/EGPRS 1900.

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## &lt;WCDMA Conducted power&gt;

**Conducted power measurement results (WCDMA Band II/V)**

| Band            | WCDMA II |        |        |
|-----------------|----------|--------|--------|
| TX Channel      | CH9262   | CH9400 | CH9538 |
| Frequency (MHz) | 1852.4   | 1880   | 1907.6 |
| RMC 12.2Kbps    | 22.03    | 21.35  | 21.79  |
| HSDPA Subtest-1 | 20.85    | 20.15  | 20.36  |
| HSDPA Subtest-2 | 20.72    | 20.54  | 20.46  |
| HSDPA Subtest-3 | 20.81    | 20.86  | 20.60  |
| HSDPA Subtest-4 | 20.40    | 20.57  | 20.77  |
| HSUPA Subtest-1 | 20.70    | 20.55  | 20.26  |
| HSUPA Subtest-2 | 20.48    | 20.67  | 20.57  |
| HSUPA Subtest-3 | 20.70    | 20.36  | 20.60  |
| HSUPA Subtest-4 | 20.87    | 20.42  | 20.89  |
| HSUPA Subtest-5 | 20.75    | 20.81  | 20.70  |
| HSPA+           | 20.72    | 20.68  | 20.82  |

| Band            | WCDMA V |        |        |
|-----------------|---------|--------|--------|
| TX Channel      | CH4132  | CH4183 | CH4233 |
| Frequency (MHz) | 826.4   | 836.6  | 846.6  |
| RMC 12.2Kbps    | 22.89   | 22.91  | 22.96  |
| HSDPA Subtest-1 | 21.74   | 21.81  | 21.88  |
| HSDPA Subtest-2 | 20.68   | 20.42  | 20.70  |
| HSDPA Subtest-3 | 20.76   | 20.59  | 20.65  |
| HSDPA Subtest-4 | 20.79   | 20.44  | 20.59  |
| HSUPA Subtest-1 | 21.58   | 21.88  | 21.95  |
| HSUPA Subtest-2 | 20.59   | 20.68  | 20.48  |
| HSUPA Subtest-3 | 20.36   | 20.47  | 20.74  |
| HSUPA Subtest-4 | 20.55   | 20.39  | 20.46  |
| HSUPA Subtest-5 | 20.61   | 20.72  | 20.39  |
| HSPA+           | 20.64   | 20.76  | 20.76  |

Per KDB 941225 D01 v02, RMC 12.2kbps setting is used to evaluate SAR. If AMR 12.2kbps power is < 0.25dB higher than RMC 12.2kbps, SAR tests with AMR 12.2kbps can be excluded.

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## &lt;LTE Conducted Power&gt;

## Conducted Power Measurement Results (LTE FDD Band 2)

| LTE-FDD Band 2 |              |          |            | Actual output Power (dBm) |         |           |
|----------------|--------------|----------|------------|---------------------------|---------|-----------|
| Band-width     | RBallocation | RBoffset | Modulation | Low                       | Middle  | High      |
| 1.4 MHz        |              |          |            | 1850.7MHz                 | 1880MHz | 1909.3MHz |
|                | 1RB          | High     | QPSK       | 22.73                     | 22.77   | 22.74     |
|                |              |          | 16QAM      | 21.76                     | 21.79   | 21.77     |
|                |              | Middle   | QPSK       | 22.72                     | 22.76   | 22.71     |
|                |              |          | 16QAM      | 21.77                     | 21.81   | 21.78     |
|                |              | Low      | QPSK       | 22.74                     | 22.73   | 22.71     |
|                |              |          | 16QAM      | 21.79                     | 21.81   | 21.79     |
|                | 3RB          | High     | QPSK       | 22.61                     | 22.66   | 22.61     |
|                |              |          | 16QAM      | 21.53                     | 21.55   | 21.52     |
|                |              | Middle   | QPSK       | 22.62                     | 22.64   | 22.62     |
|                |              |          | 16QAM      | 21.55                     | 21.58   | 21.53     |
|                |              | Low      | QPSK       | 22.61                     | 22.67   | 22.64     |
|                |              |          | 16QAM      | 21.53                     | 21.57   | 21.54     |
|                | 6RB          | /        | QPSK       | 21.78                     | 21.83   | 21.77     |
|                |              |          | 16QAM      | 20.62                     | 20.66   | 20.63     |
| 3 MHz          |              |          |            | 1851.5MHz                 | 1880MHz | 1908.5MHz |
|                | 1RB          | High     | QPSK       | 22.71                     | 22.74   | 22.72     |
|                |              |          | 16QAM      | 21.80                     | 21.82   | 21.80     |
|                |              | Middle   | QPSK       | 22.69                     | 22.74   | 22.70     |
|                |              |          | 16QAM      | 21.81                     | 21.85   | 21.81     |
|                |              | Low      | QPSK       | 22.71                     | 22.75   | 22.72     |
|                |              |          | 16QAM      | 21.79                     | 21.82   | 21.79     |
|                | 8RB          | High     | QPSK       | 22.06                     | 22.09   | 22.05     |
|                |              |          | 16QAM      | 20.91                     | 20.94   | 20.92     |
|                |              | Middle   | QPSK       | 22.01                     | 22.02   | 22.02     |
|                |              |          | 16QAM      | 20.90                     | 20.94   | 20.90     |
|                |              | Low      | QPSK       | 22.02                     | 22.05   | 22.03     |
|                |              |          | 16QAM      | 20.92                     | 20.94   | 20.94     |
|                | 15RB         | /        | QPSK       | 21.98                     | 22.03   | 22.00     |
|                |              |          | 16QAM      | 20.89                     | 20.95   | 20.88     |
| 5 MHz          |              |          |            | 1852.5MHz                 | 1880MHz | 1907.5MHz |
|                | 1RB          | High     | QPSK       | 22.69                     | 22.72   | 22.70     |
|                |              |          | 16QAM      | 21.79                     | 21.82   | 21.80     |
|                |              | Middle   | QPSK       | 22.71                     | 22.75   | 22.72     |
|                |              |          | 16QAM      | 21.81                     | 21.85   | 21.80     |
|                |              | Low      | QPSK       | 22.70                     | 22.72   | 22.69     |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|        |  |  |  |       |           |         |           |
|--------|--|--|--|-------|-----------|---------|-----------|
|        |  |  |  | 16QAM | 21.79     | 21.82   | 21.80     |
|        |  |  |  | QPSK  | 22.07     | 22.12   | 22.05     |
|        |  |  |  | 16QAM | 20.96     | 21.03   | 20.97     |
|        |  |  |  | QPSK  | 22.07     | 22.11   | 22.08     |
|        |  |  |  | 16QAM | 20.97     | 21.01   | 20.96     |
|        |  |  |  | QPSK  | 22.06     | 22.09   | 22.07     |
|        |  |  |  | 16QAM | 20.99     | 21.02   | 21.00     |
|        |  |  |  | QPSK  | 22.04     | 22.08   | 22.05     |
|        |  |  |  | 16QAM | 20.93     | 20.96   | 20.93     |
|        |  |  |  |       |           |         |           |
| 10 MHz |  |  |  |       | 1855MHz   | 1880MHz | 1905MHz   |
|        |  |  |  | QPSK  | 22.70     | 22.73   | 22.70     |
|        |  |  |  | 16QAM | 21.78     | 21.81   | 21.79     |
|        |  |  |  | QPSK  | 22.71     | 22.75   | 22.71     |
|        |  |  |  | 16QAM | 21.80     | 21.84   | 21.79     |
|        |  |  |  | QPSK  | 22.71     | 22.75   | 22.71     |
|        |  |  |  | 16QAM | 21.80     | 21.82   | 21.80     |
|        |  |  |  | QPSK  | 22.03     | 22.08   | 22.05     |
|        |  |  |  | 16QAM | 20.96     | 21.00   | 20.97     |
|        |  |  |  | QPSK  | 22.03     | 22.08   | 22.05     |
|        |  |  |  | 16QAM | 21.00     | 21.02   | 20.99     |
|        |  |  |  | QPSK  | 22.02     | 22.06   | 22.03     |
|        |  |  |  | 16QAM | 20.98     | 21.01   | 20.99     |
|        |  |  |  | QPSK  | 22.05     | 22.08   | 22.04     |
|        |  |  |  | 16QAM | 20.94     | 20.97   | 20.93     |
|        |  |  |  |       |           |         |           |
|        |  |  |  |       | 1857.5MHz | 1880MHz | 1902.5MHz |
|        |  |  |  | QPSK  | 22.73     | 22.76   | 22.74     |
|        |  |  |  | 16QAM | 21.79     | 21.82   | 21.80     |
| 15 MHz |  |  |  | QPSK  | 22.70     | 22.76   | 22.70     |
|        |  |  |  | 16QAM | 21.80     | 21.85   | 21.80     |
|        |  |  |  | QPSK  | 22.72     | 22.75   | 22.73     |
|        |  |  |  | 16QAM | 21.81     | 21.84   | 21.82     |
|        |  |  |  | QPSK  | 22.05     | 22.09   | 22.06     |
|        |  |  |  | 16QAM | 20.96     | 20.98   | 20.96     |
|        |  |  |  | QPSK  | 22.03     | 22.08   | 22.02     |
|        |  |  |  | 16QAM | 20.98     | 21.01   | 20.97     |
|        |  |  |  | QPSK  | 22.06     | 22.11   | 22.08     |
|        |  |  |  | 16QAM | 20.94     | 20.98   | 20.95     |
|        |  |  |  | QPSK  | 21.96     | 22.00   | 21.97     |
|        |  |  |  | 16QAM | 20.89     | 20.94   | 20.90     |
| 20 MHz |  |  |  |       | 1860MHz   | 1880MHz | 1900MHz   |
|        |  |  |  | QPSK  | 22.69     | 22.75   | 22.70     |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|  |       |        |       |       |       |       |
|--|-------|--------|-------|-------|-------|-------|
|  |       | Middle | 16QAM | 21.79 | 21.84 | 21.81 |
|  |       |        | QPSK  | 22.72 | 22.76 | 22.73 |
|  |       | Low    | 16QAM | 21.82 | 21.84 | 21.80 |
|  |       |        | QPSK  | 22.74 | 22.77 | 22.75 |
|  | 50RB  | High   | 16QAM | 21.82 | 21.85 | 21.83 |
|  |       |        | QPSK  | 22.06 | 22.12 | 21.98 |
|  |       | Middle | 16QAM | 20.94 | 21.00 | 20.95 |
|  |       |        | QPSK  | 22.05 | 22.09 | 22.06 |
|  |       | Low    | 16QAM | 21.00 | 21.04 | 21.01 |
|  |       |        | QPSK  | 22.06 | 22.09 | 22.07 |
|  | 100RB | /      | 16QAM | 21.01 | 21.04 | 21.02 |
|  |       |        | QPSK  | 21.99 | 22.05 | 21.98 |
|  |       |        | 16QAM | 20.88 | 20.94 | 20.87 |
|  |       |        | QPSK  | 21.99 | 22.05 | 21.98 |

### Conducted Power Measurement Results (LTE FDD Band 4)

| LTE-FDD Band 4 |              |          |            | Actual output Power (dBm) |           |           |
|----------------|--------------|----------|------------|---------------------------|-----------|-----------|
| Band-width     | RBallocation | RBoffset | Modulation | Low                       | Middle    | High      |
| 1.4 MHz        |              |          |            | 1710.7MHz                 | 1732.5MHz | 1754.3MHz |
|                | 1RB          | High     | QPSK       | 22.59                     | 22.65     | 22.57     |
|                |              |          | 16QAM      | 21.02                     | 21.07     | 21.00     |
|                |              | Middle   | QPSK       | 22.58                     | 22.64     | 22.54     |
|                |              |          | 16QAM      | 21.03                     | 21.09     | 21.01     |
|                |              | Low      | QPSK       | 22.60                     | 22.61     | 22.54     |
|                |              |          | 16QAM      | 21.05                     | 21.09     | 21.02     |
|                | 3RB          | High     | QPSK       | 22.47                     | 22.54     | 22.44     |
|                |              |          | 16QAM      | 20.79                     | 20.83     | 20.75     |
|                |              | Middle   | QPSK       | 22.48                     | 22.52     | 22.45     |
|                |              |          | 16QAM      | 20.81                     | 20.86     | 20.76     |
|                |              | Low      | QPSK       | 22.47                     | 22.55     | 22.47     |
|                |              |          | 16QAM      | 20.79                     | 20.85     | 20.77     |
|                | 6RB          | /        | QPSK       | 21.64                     | 21.71     | 21.60     |
|                |              |          | 16QAM      | 19.88                     | 19.94     | 19.86     |
| 3 MHz          |              |          |            | 1711.5MHz                 | 1732.5MHz | 1753.5MHz |
|                | 1RB          | High     | QPSK       | 22.57                     | 22.62     | 22.55     |
|                |              |          | 16QAM      | 21.06                     | 21.10     | 21.03     |
|                |              | Middle   | QPSK       | 22.55                     | 22.62     | 22.53     |
|                |              |          | 16QAM      | 21.07                     | 21.13     | 21.04     |
|                |              | Low      | QPSK       | 22.57                     | 22.63     | 22.55     |
|                |              |          | 16QAM      | 21.05                     | 21.10     | 21.02     |
|                | 8RB          | High     | QPSK       | 21.92                     | 21.97     | 21.88     |
|                |              |          | 16QAM      | 20.17                     | 20.22     | 20.15     |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com

|        |      |        |       |           |           |           |
|--------|------|--------|-------|-----------|-----------|-----------|
|        |      | Middle | QPSK  | 21.87     | 21.90     | 21.85     |
|        |      |        | 16QAM | 20.16     | 20.22     | 20.13     |
|        |      | Low    | QPSK  | 21.88     | 21.93     | 21.86     |
|        |      |        | 16QAM | 20.18     | 20.22     | 20.17     |
|        | 15RB | /      | QPSK  | 21.84     | 21.91     | 21.83     |
| 16QAM  |      |        | 20.15 | 20.23     | 20.11     |           |
| 5 MHz  |      |        |       | 1712.5MHz | 1732.5MHz | 1752.5MHz |
|        | 1RB  | High   | QPSK  | 22.55     | 22.60     | 22.53     |
|        |      |        | 16QAM | 21.05     | 21.10     | 21.03     |
|        |      | Middle | QPSK  | 22.57     | 22.63     | 22.55     |
|        |      |        | 16QAM | 21.07     | 21.13     | 21.03     |
|        |      | Low    | QPSK  | 22.56     | 22.60     | 22.52     |
|        |      |        | 16QAM | 21.05     | 21.10     | 21.03     |
|        | 12RB | High   | QPSK  | 21.93     | 22.00     | 21.88     |
|        |      |        | 16QAM | 20.22     | 20.31     | 20.20     |
|        |      | Middle | QPSK  | 21.93     | 21.99     | 21.91     |
|        |      |        | 16QAM | 20.23     | 20.29     | 20.19     |
|        |      | Low    | QPSK  | 21.92     | 21.97     | 21.90     |
|        |      |        | 16QAM | 20.25     | 20.30     | 20.23     |
|        | 25RB | /      | QPSK  | 21.90     | 21.96     | 21.88     |
|        |      |        | 16QAM | 20.19     | 20.24     | 20.16     |
| 10 MHz |      |        |       | 1715MHz   | 1732.5MHz | 1750MHz   |
|        | 1RB  | High   | QPSK  | 22.56     | 22.61     | 22.53     |
|        |      |        | 16QAM | 21.04     | 21.09     | 21.02     |
|        |      | Middle | QPSK  | 22.57     | 22.63     | 22.54     |
|        |      |        | 16QAM | 21.06     | 21.12     | 21.02     |
|        |      | Low    | QPSK  | 22.57     | 22.63     | 22.54     |
|        |      |        | 16QAM | 21.06     | 21.10     | 21.03     |
|        | 25RB | High   | QPSK  | 21.89     | 21.96     | 21.88     |
|        |      |        | 16QAM | 20.22     | 20.28     | 20.20     |
|        |      | Middle | QPSK  | 21.89     | 21.96     | 21.88     |
|        |      |        | 16QAM | 20.26     | 20.30     | 20.22     |
|        |      | Low    | QPSK  | 21.88     | 21.94     | 21.86     |
|        |      |        | 16QAM | 20.24     | 20.29     | 20.22     |
|        | 50RB | /      | QPSK  | 21.91     | 21.96     | 21.87     |
|        |      |        | 16QAM | 20.20     | 20.25     | 20.16     |
| 15 MHz |      |        |       | 1717.5MHz | 1732.5MHz | 1747.5MHz |
|        | 1RB  | High   | QPSK  | 22.59     | 22.64     | 22.57     |
|        |      |        | 16QAM | 21.05     | 21.10     | 21.03     |
|        |      | Middle | QPSK  | 22.56     | 22.64     | 22.53     |
|        |      |        | 16QAM | 21.06     | 21.13     | 21.03     |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|        |       |        |       |         |           |         |
|--------|-------|--------|-------|---------|-----------|---------|
|        |       | Low    | QPSK  | 22.58   | 22.63     | 22.56   |
|        |       |        | 16QAM | 21.07   | 21.12     | 21.05   |
|        | 36RB  | High   | QPSK  | 21.91   | 21.97     | 21.89   |
|        |       |        | 16QAM | 20.22   | 20.26     | 20.19   |
|        |       | Middle | QPSK  | 21.89   | 21.96     | 21.85   |
|        |       |        | 16QAM | 20.24   | 20.29     | 20.20   |
|        |       | Low    | QPSK  | 21.92   | 21.99     | 21.91   |
|        |       |        | 16QAM | 20.20   | 20.26     | 20.18   |
|        | 75RB  | /      | QPSK  | 21.82   | 21.88     | 21.80   |
|        |       |        | 16QAM | 20.15   | 20.22     | 20.13   |
| 20 MHz |       |        |       | 1720MHz | 1732.5MHz | 1745MHz |
|        | 1RB   | High   | QPSK  | 22.55   | 22.63     | 22.53   |
|        |       |        | 16QAM | 21.05   | 21.12     | 21.04   |
|        |       | Middle | QPSK  | 22.58   | 22.64     | 22.56   |
|        |       |        | 16QAM | 21.08   | 21.12     | 21.03   |
|        |       | Low    | QPSK  | 22.60   | 22.65     | 22.58   |
|        |       |        | 16QAM | 21.08   | 21.13     | 21.06   |
|        | 50RB  | High   | QPSK  | 21.92   | 22.00     | 21.81   |
|        |       |        | 16QAM | 20.20   | 20.28     | 20.18   |
|        |       | Middle | QPSK  | 21.91   | 21.97     | 21.89   |
|        |       |        | 16QAM | 20.26   | 20.32     | 20.24   |
|        |       | Low    | QPSK  | 21.92   | 21.97     | 21.90   |
|        |       |        | 16QAM | 20.27   | 20.32     | 20.25   |
|        | 100RB | /      | QPSK  | 21.85   | 21.93     | 21.81   |
|        |       |        | 16QAM | 20.14   | 20.22     | 20.10   |

## Conducted Power Measurement Results (LTE FDD Band 5)

| LTE-FDD Band 5 |               |           |            | Actual output Power (dBm) |          |          |
|----------------|---------------|-----------|------------|---------------------------|----------|----------|
| Band-width     | RB allocation | RB offset | Modulation | Low                       | Middle   | High     |
| 1.4 MHz        | 1RB           | High      | QPSK       | 824.7MHz                  | 836.5MHz | 848.3MHz |
|                |               |           | 16QAM      | 22.69                     | 22.72    | 22.67    |
|                |               | Middle    | QPSK       | 21.9                      | 21.92    | 21.85    |
|                |               |           | 16QAM      | 22.71                     | 22.73    | 22.7     |
|                |               | Low       | QPSK       | 21.9                      | 21.94    | 21.89    |
|                |               |           | 16QAM      | 22.68                     | 22.73    | 22.71    |
|                | 3RB           | High      | QPSK       | 21.89                     | 21.9     | 21.88    |
|                |               |           | 16QAM      | 22.52                     | 22.51    | 22.49    |
|                |               | Middle    | QPSK       | 21.59                     | 21.61    | 21.62    |
|                |               |           | 16QAM      | 22.52                     | 22.51    | 22.49    |
|                |               | Low       | QPSK       | 21.59                     | 21.61    | 21.62    |
|                |               |           | 16QAM      | 22.49                     | 22.51    | 22.5     |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
 400-003-0500  
 www.anbotek.com

|        |      |        |       |          |          |          |
|--------|------|--------|-------|----------|----------|----------|
|        |      |        | 16QAM | 21.65    | 21.66    | 21.61    |
|        | 6RB  | /      | QPSK  | 21.51    | 21.55    | 21.51    |
|        |      |        | 16QAM | 20.64    | 20.69    | 20.62    |
| 3 MHz  |      |        |       | 825.5MHz | 836.5MHz | 847.5MHz |
|        | 1RB  | High   | QPSK  | 22.68    | 22.72    | 22.67    |
|        |      |        | 16QAM | 21.9     | 21.9     | 21.89    |
|        |      | Middle | QPSK  | 22.71    | 22.75    | 22.7     |
|        |      |        | 16QAM | 21.89    | 21.91    | 21.9     |
|        |      | Low    | QPSK  | 22.67    | 22.74    | 22.7     |
|        |      |        | 16QAM | 21.89    | 21.93    | 21.87    |
|        | 8RB  | High   | QPSK  | 21.54    | 21.53    | 21.52    |
|        |      |        | 16QAM | 20.62    | 20.63    | 20.66    |
|        |      | Middle | QPSK  | 21.52    | 21.54    | 21.52    |
|        |      |        | 16QAM | 20.66    | 20.65    | 20.65    |
|        |      | Low    | QPSK  | 21.51    | 21.56    | 21.5     |
|        |      |        | 16QAM | 20.6     | 20.67    | 20.59    |
|        | 15RB | /      | QPSK  | 21.53    | 21.52    | 21.5     |
|        |      |        | 16QAM | 20.62    | 20.64    | 20.6     |
| 5 MHz  |      |        |       | 826.5MHz | 836.5MHz | 846.5MHz |
|        | 1RB  | High   | QPSK  | 22.64    | 22.66    | 22.66    |
|        |      |        | 16QAM | 21.88    | 21.88    | 21.87    |
|        |      | Middle | QPSK  | 22.7     | 22.72    | 22.67    |
|        |      |        | 16QAM | 21.88    | 21.9     | 21.91    |
|        |      | Low    | QPSK  | 22.7     | 22.73    | 22.71    |
|        |      |        | 16QAM | 21.91    | 21.9     | 21.91    |
|        | 12RB | High   | QPSK  | 21.58    | 21.56    | 21.57    |
|        |      |        | 16QAM | 20.68    | 20.65    | 20.69    |
|        |      | Middle | QPSK  | 21.59    | 21.61    | 21.56    |
|        |      |        | 16QAM | 20.63    | 20.67    | 20.68    |
|        |      | Low    | QPSK  | 21.62    | 21.64    | 21.59    |
|        |      |        | 16QAM | 20.67    | 20.68    | 20.62    |
|        | 25RB | /      | QPSK  | 21.58    | 21.57    | 21.52    |
|        |      |        | 16QAM | 20.68    | 20.69    | 20.65    |
| 10 MHz |      |        |       | 829MHz   | 836.5MHz | 844MHz   |
|        | 1RB  | High   | QPSK  | 22.72    | 22.75    | 22.68    |
|        |      |        | 16QAM | 21.93    | 21.94    | 21.91    |
|        |      | Middle | QPSK  | 22.72    | 22.76    | 22.72    |
|        |      |        | 16QAM | 21.9     | 21.93    | 21.88    |
|        |      | Low    | QPSK  | 22.71    | 22.73    | 22.7     |
|        |      |        | 16QAM | 21.9     | 21.94    | 21.89    |
|        | 25RB | High   | QPSK  | 21.61    | 21.62    | 21.57    |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|  |      |        |       |       |       |       |
|--|------|--------|-------|-------|-------|-------|
|  |      | Middle | 16QAM | 20.62 | 20.64 | 20.6  |
|  |      |        | QPSK  | 21.59 | 21.61 | 21.57 |
|  |      |        | 16QAM | 20.66 | 20.71 | 20.66 |
|  |      | Low    | QPSK  | 21.58 | 21.62 | 21.58 |
|  |      |        | 16QAM | 20.69 | 20.66 | 20.64 |
|  | 50RB | /      | QPSK  | 21.63 | 21.59 | 21.52 |
|  |      |        | 16QAM | 20.69 | 20.71 | 20.66 |

## Conducted Power Measurement Results (LTE FDD Band 7)

| LTE-FDD Band 7 |               |           |            | Actual output Power (dBm) |         |           |
|----------------|---------------|-----------|------------|---------------------------|---------|-----------|
| Band-width     | RB allocation | RB offset | Modulation | Low                       | Middle  | High      |
| 5 MHz          | 1RB           | High      | QPSK       | 2502.5MHz                 | 2535MHz | 2567.5MHz |
|                |               |           | 16QAM      | 22.49                     | 22.56   | 22.51     |
|                |               | Middle    | QPSK       | 21.48                     | 21.52   | 21.47     |
|                |               |           | 16QAM      | 22.51                     | 22.56   | 22.50     |
|                |               | Low       | QPSK       | 21.53                     | 21.58   | 21.54     |
|                |               |           | 16QAM      | 22.51                     | 22.51   | 22.52     |
|                |               | High      | QPSK       | 21.52                     | 21.54   | 21.54     |
|                |               |           | 16QAM      | 21.37                     | 21.39   | 21.33     |
|                | 12RB          | High      | QPSK       | 21.37                     | 21.39   | 21.33     |
|                |               |           | 16QAM      | 20.18                     | 20.23   | 20.17     |
|                |               | Middle    | QPSK       | 21.40                     | 21.44   | 21.40     |
|                |               |           | 16QAM      | 20.19                     | 20.25   | 20.17     |
|                |               | Low       | QPSK       | 21.40                     | 21.41   | 21.33     |
|                |               |           | 16QAM      | 20.27                     | 20.28   | 20.15     |
|                | 25RB          |           | QPSK       | 21.39                     | 21.47   | 21.35     |
|                |               |           | 16QAM      | 20.24                     | 20.28   | 20.20     |
| 10 MHz         | 1RB           | High      | QPSK       | 2505MHz                   | 2535MHz | 2565MHz   |
|                |               |           | 16QAM      | 22.55                     | 22.57   | 22.49     |
|                |               | Middle    | QPSK       | 21.52                     | 21.56   | 21.51     |
|                |               |           | 16QAM      | 22.55                     | 22.53   | 22.46     |
|                |               | Low       | QPSK       | 21.56                     | 21.57   | 21.51     |
|                |               |           | 16QAM      | 22.50                     | 22.50   | 22.47     |
|                | 25RB          | High      | QPSK       | 21.53                     | 21.55   | 21.52     |
|                |               |           | 16QAM      | 21.35                     | 21.39   | 21.36     |
|                |               | Middle    | QPSK       | 20.37                     | 20.38   | 20.34     |
|                |               |           | 16QAM      | 21.42                     | 21.42   | 21.36     |
|                |               | Low       | QPSK       | 20.43                     | 20.44   | 20.41     |
|                |               |           | 16QAM      | 21.41                     | 21.45   | 21.32     |
|                | 50RB          |           | QPSK       | 20.37                     | 20.40   | 20.38     |
|                |               |           | 16QAM      | 21.41                     | 21.41   | 21.35     |
|                |               |           | QPSK       | 20.39                     | 20.42   | 20.37     |
|                |               |           | 16QAM      |                           |         |           |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

| 15 MHz | 1RB   | High   | QPSK  | 2507.5MHz | 2535MHz | 2562.5MHz |
|--------|-------|--------|-------|-----------|---------|-----------|
|        |       |        | 16QAM | 22.50     | 22.55   | 22.49     |
|        | 1RB   | Middle | QPSK  | 22.48     | 22.58   | 22.51     |
|        |       |        | 16QAM | 21.54     | 21.58   | 21.54     |
|        |       | Low    | QPSK  | 22.53     | 22.55   | 22.49     |
|        |       |        | 16QAM | 21.51     | 21.55   | 21.54     |
|        | 36RB  | High   | QPSK  | 21.33     | 21.42   | 21.35     |
|        |       |        | 16QAM | 20.38     | 20.42   | 20.35     |
|        |       | Middle | QPSK  | 21.37     | 21.43   | 21.37     |
|        |       |        | 16QAM | 20.39     | 20.44   | 20.36     |
|        |       | Low    | QPSK  | 21.38     | 21.38   | 21.35     |
|        |       |        | 16QAM | 20.45     | 20.47   | 20.34     |
|        | 75RB  |        | QPSK  | 21.39     | 21.45   | 21.39     |
|        |       |        | 16QAM | 20.42     | 20.44   | 20.36     |
| 20 MHz | 1RB   | High   | QPSK  | 2510MHz   | 2535MHz | 2560MHz   |
|        |       |        | 16QAM | 22.51     | 22.59   | 22.52     |
|        |       | Middle | QPSK  | 22.53     | 22.61   | 22.57     |
|        |       |        | 16QAM | 21.54     | 21.60   | 21.55     |
|        |       | Low    | QPSK  | 22.54     | 22.59   | 22.54     |
|        |       |        | 16QAM | 21.52     | 21.55   | 21.51     |
|        | 50RB  | High   | QPSK  | 21.57     | 21.60   | 21.55     |
|        |       |        | 16QAM | 20.39     | 20.45   | 20.36     |
|        |       | Middle | QPSK  | 21.39     | 21.44   | 21.39     |
|        |       |        | 16QAM | 20.41     | 20.45   | 20.38     |
|        |       | Low    | QPSK  | 21.37     | 21.40   | 21.41     |
|        |       |        | 16QAM | 20.38     | 20.45   | 20.38     |
|        | 100RB |        | QPSK  | 21.42     | 21.48   | 21.41     |
|        |       |        | 16QAM | 20.41     | 20.47   | 20.50     |

### Conducted Power Measurement Results (LTE FDD Band 12)

| LTE-FDD Band 12 |              |          |            | Actual output Power (dBm) |          |          |
|-----------------|--------------|----------|------------|---------------------------|----------|----------|
| Band-width      | RBAllocation | RBOffset | Modulation | Low                       | Middle   | High     |
| 1.4 MHz         | 1RB          | High     | QPSK       | 699.7MHz                  | 707.5MHz | 715.3MHz |
|                 |              |          | 16QAM      | 22.77                     | 22.65    | 22.78    |
|                 |              | Middle   | QPSK       | 21.93                     | 21.67    | 21.73    |
|                 |              |          | 16QAM      | 22.9                      | 22.61    | 22.95    |
|                 |              | Low      | QPSK       | 21.99                     | 21.66    | 21.86    |
|                 |              |          | 16QAM      | 22.84                     | 22.59    | 22.82    |
|                 |              |          | QPSK       | 21.95                     | 21.57    | 21.72    |
|                 |              |          | 16QAM      |                           |          |          |

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|        |       |        |       |          |          |          |          |
|--------|-------|--------|-------|----------|----------|----------|----------|
|        | 3RB   | High   | QPSK  | 22.73    | 22.69    | 22.8     |          |
|        |       |        | 16QAM | 21.58    | 21.79    | 21.56    |          |
|        |       | Middle | QPSK  | 22.89    | 22.73    | 22.93    |          |
|        |       |        | 16QAM | 21.67    | 21.8     | 21.68    |          |
|        |       | Low    | QPSK  | 22.88    | 22.74    | 22.79    |          |
|        |       |        | 16QAM | 21.6     | 21.81    | 21.65    |          |
|        | 6RB   | /      | QPSK  | 21.69    | 21.77    | 21.76    |          |
|        |       |        | 16QAM | 20.81    | 20.93    | 20.83    |          |
| 3 MHz  |       |        |       | 700.5MHz | 707.5MHz | 714.5MHz |          |
|        | 1RB   | High   | QPSK  | 22.67    | 22.49    | 22.73    |          |
|        |       |        | 16QAM | 21.62    | 21.74    | 21.64    |          |
|        |       | Middle | QPSK  | 22.71    | 22.62    | 22.75    |          |
|        |       |        | 16QAM | 21.56    | 21.65    | 21.72    |          |
|        |       | Low    | QPSK  | 22.74    | 22.67    | 22.82    |          |
|        |       |        | 16QAM | 21.76    | 21.72    | 21.83    |          |
|        | 8RB   | High   | QPSK  | 21.74    | 21.81    | 21.68    |          |
|        |       |        | 16QAM | 20.65    | 20.76    | 20.92    |          |
|        |       | Middle | QPSK  | 21.63    | 21.68    | 21.72    |          |
|        |       |        | 16QAM | 20.64    | 20.69    | 20.96    |          |
|        |       | Low    | QPSK  | 21.56    | 21.67    | 21.74    |          |
|        |       |        | 16QAM | 20.6     | 20.79    | 20.97    |          |
|        | 15RB  | /      | QPSK  | 21.64    | 21.68    | 21.74    |          |
|        |       |        | 16QAM | 20.63    | 20.66    | 20.83    |          |
|        | 5 MHz |        |       |          | 701.5MHz | 707.5MHz | 713.5MHz |
|        |       | 1RB    | High  | QPSK     | 22.79    | 22.75    | 22.7     |
|        |       |        |       | 16QAM    | 21.65    | 21.78    | 21.72    |
| Middle |       |        | QPSK  | 22.68    | 22.67    | 22.72    |          |
|        |       |        | 16QAM | 21.44    | 21.75    | 21.85    |          |
| Low    |       |        | QPSK  | 22.55    | 22.83    | 22.75    |          |
|        |       |        | 16QAM | 21.49    | 21.97    | 21.87    |          |
| 12RB   |       | High   | QPSK  | 21.75    | 21.63    | 21.68    |          |
|        |       |        | 16QAM | 20.74    | 20.59    | 20.76    |          |
|        |       | Middle | QPSK  | 21.67    | 21.82    | 21.65    |          |
|        |       |        | 16QAM | 20.76    | 20.7     | 20.95    |          |
|        |       | Low    | QPSK  | 21.64    | 21.68    | 21.68    |          |
|        |       |        | 16QAM | 20.82    | 20.75    | 20.91    |          |
| 25RB   |       | /      | QPSK  | 21.61    | 21.72    | 21.69    |          |
|        |       |        | 16QAM | 20.6     | 20.77    | 20.81    |          |
| 10 MHz |       |        |       |          | 704MHz   | 707.5MHz | 711MHz   |
|        |       | 1RB    | High  | QPSK     | 22.79    | 22.76    | 22.72    |
|        |       |        |       | 16QAM    | 21.61    | 21.78    | 21.72    |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
 400-003-0500  
 www.anbotek.com

|  |      |        |       |       |       |       |
|--|------|--------|-------|-------|-------|-------|
|  |      | Middle | QPSK  | 22.87 | 22.70 | 22.51 |
|  |      |        | 16QAM | 21.81 | 21.94 | 21.67 |
|  |      | Low    | QPSK  | 22.81 | 22.61 | 22.71 |
|  |      |        | 16QAM | 21.75 | 21.77 | 21.78 |
|  | 25RB | High   | QPSK  | 21.63 | 21.68 | 21.72 |
|  |      |        | 16QAM | 20.69 | 20.78 | 20.85 |
|  |      | Middle | QPSK  | 21.78 | 21.68 | 21.59 |
|  |      |        | 16QAM | 20.76 | 20.67 | 20.77 |
|  |      | Low    | QPSK  | 21.71 | 21.70 | 21.67 |
|  |      |        | 16QAM | 20.68 | 20.76 | 20.82 |
|  | 50RB | /      | QPSK  | 21.64 | 21.49 | 21.71 |
|  |      |        | 16QAM | 20.82 | 20.56 | 20.77 |

## Conducted Power Measurement Results (LTE FDD Band 17)

| LTE-FDD Band 17 |              |          |            | Actual output Power (dBm) |        |          |
|-----------------|--------------|----------|------------|---------------------------|--------|----------|
| Band-width      | RBallocation | RBoffset | Modulation | High                      | Middle | Low      |
| 5 MHz           |              |          |            | 706.5MHz                  | 710MHz | 713.5MHz |
|                 | 1RB          | High     | QPSK       | 22.55                     | 22.55  | 22.53    |
|                 |              |          | 16QAM      | 21.61                     | 21.64  | 21.6     |
|                 |              | Middle   | QPSK       | 22.51                     | 22.53  | 22.54    |
|                 |              |          | 16QAM      | 21.58                     | 21.62  | 21.6     |
|                 |              | Low      | QPSK       | 22.51                     | 22.54  | 22.54    |
|                 |              |          | 16QAM      | 21.59                     | 21.62  | 21.58    |
|                 | 12RB         | High     | QPSK       | 21.55                     | 21.53  | 21.54    |
|                 |              |          | 16QAM      | 20.76                     | 20.77  | 20.76    |
|                 |              | Middle   | QPSK       | 21.53                     | 21.55  | 21.53    |
|                 |              |          | 16QAM      | 20.74                     | 20.75  | 20.73    |
|                 |              | Low      | QPSK       | 21.53                     | 21.56  | 21.53    |
|                 |              |          | 16QAM      | 20.72                     | 20.76  | 20.75    |
|                 | 25RB         | /        | QPSK       | 21.5                      | 21.51  | 21.5     |
|                 |              |          | 16QAM      | 20.71                     | 20.72  | 20.71    |
| 10 MHz          |              |          |            | 709MHz                    | 710MHz | 711MHz   |
|                 | 1RB          | High     | QPSK       | 22.56                     | 22.6   | 22.53    |
|                 |              |          | 16QAM      | 21.64                     | 21.66  | 21.63    |
|                 |              | Middle   | QPSK       | 22.52                     | 22.54  | 22.53    |
|                 |              |          | 16QAM      | 21.62                     | 21.64  | 21.61    |
|                 |              | Low      | QPSK       | 22.54                     | 22.56  | 22.55    |
|                 |              |          | 16QAM      | 21.61                     | 21.64  | 21.6     |
|                 | 25RB         | High     | QPSK       | 21.59                     | 21.65  | 21.6     |
|                 |              |          | 16QAM      | 20.77                     | 20.78  | 20.77    |
|                 |              | Middle   | QPSK       | 21.54                     | 21.56  | 21.55    |
| 16QAM           |              |          | 20.73      | 20.77                     | 20.78  |          |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com

Hotline  
400-003-0500

www.anbotek.com

|  |      |     |       |       |       |       |
|--|------|-----|-------|-------|-------|-------|
|  |      | Low | QPSK  | 21.54 | 21.55 | 21.55 |
|  |      |     | 16QAM | 20.73 | 20.72 | 20.76 |
|  | 50RB | /   | QPSK  | 21.51 | 21.54 | 21.54 |
|  |      |     | 16QAM | 20.71 | 20.75 | 20.76 |

## Conducted Power Measurement Results (LTE FDD Band 26)

| LTE-FDD Band 26 |              |          |            | Actual output Power (dBm) |          |          |
|-----------------|--------------|----------|------------|---------------------------|----------|----------|
| Band-width      | RBallocation | RBoffset | Modulation | Low                       | Middle   | High     |
| 1.4 MHz         |              |          |            | 814.7MHz                  | 831.5MHz | 848.3MHz |
|                 | 1RB          | High     | QPSK       | 22.67                     | 22.77    | 22.65    |
|                 |              |          | 16QAM      | 21.70                     | 21.79    | 21.68    |
|                 |              | Middle   | QPSK       | 22.66                     | 22.76    | 22.62    |
|                 |              |          | 16QAM      | 21.71                     | 21.81    | 21.69    |
|                 |              | Low      | QPSK       | 22.68                     | 22.73    | 22.62    |
|                 |              |          | 16QAM      | 21.73                     | 21.81    | 21.70    |
|                 | 3RB          | High     | QPSK       | 22.55                     | 22.66    | 22.52    |
|                 |              |          | 16QAM      | 21.47                     | 21.55    | 21.43    |
|                 |              | Middle   | QPSK       | 22.56                     | 22.64    | 22.53    |
|                 |              |          | 16QAM      | 21.49                     | 21.58    | 21.44    |
|                 |              | Low      | QPSK       | 22.55                     | 22.67    | 22.55    |
|                 |              |          | 16QAM      | 21.47                     | 21.57    | 21.45    |
|                 | 6RB          | /        | QPSK       | 21.72                     | 21.83    | 21.68    |
|                 |              |          | 16QAM      | 20.56                     | 20.66    | 20.54    |
| 3 MHz           |              |          |            | 815.5MHz                  | 831.5MHz | 847.5MHz |
|                 | 1RB          | High     | QPSK       | 22.65                     | 22.74    | 22.63    |
|                 |              |          | 16QAM      | 21.74                     | 21.82    | 21.71    |
|                 |              | Middle   | QPSK       | 22.63                     | 22.74    | 22.61    |
|                 |              |          | 16QAM      | 21.75                     | 21.85    | 21.72    |
|                 |              | Low      | QPSK       | 22.65                     | 22.75    | 22.63    |
|                 |              |          | 16QAM      | 21.73                     | 21.82    | 21.70    |
|                 | 8RB          | High     | QPSK       | 21.72                     | 21.81    | 21.67    |
|                 |              |          | 16QAM      | 20.57                     | 20.66    | 20.54    |
|                 |              | Middle   | QPSK       | 21.67                     | 21.74    | 21.64    |
|                 |              |          | 16QAM      | 20.56                     | 20.66    | 20.52    |
|                 |              | Low      | QPSK       | 21.68                     | 21.77    | 21.65    |
|                 |              |          | 16QAM      | 20.58                     | 20.66    | 20.56    |
|                 | 15RB         | /        | QPSK       | 21.64                     | 21.75    | 21.62    |
|                 |              |          | 16QAM      | 20.55                     | 20.67    | 20.50    |
| 5 MHz           |              |          |            | 816.5MHz                  | 831.5MHz | 846.5MHz |
|                 | 1RB          | High     | QPSK       | 22.63                     | 22.72    | 22.61    |
|                 |              |          | 16QAM      | 21.73                     | 21.82    | 21.71    |
|                 |              | Middle   | QPSK       | 22.65                     | 22.75    | 22.63    |
|                 |              |          |            |                           |          |          |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
 400-003-0500  
 www.anbotek.com

|  |      |        |       |       |       |       |
|--|------|--------|-------|-------|-------|-------|
|  |      | Low    | 16QAM | 21.75 | 21.85 | 21.71 |
|  |      |        | QPSK  | 22.64 | 22.72 | 22.60 |
|  | 12RB | High   | 16QAM | 21.73 | 21.82 | 21.71 |
|  |      |        | QPSK  | 21.73 | 21.84 | 21.67 |
|  |      | Middle | 16QAM | 20.62 | 20.75 | 20.59 |
|  |      |        | QPSK  | 21.73 | 21.83 | 21.70 |
|  |      | Low    | 16QAM | 20.63 | 20.73 | 20.58 |
|  |      |        | QPSK  | 21.72 | 21.81 | 21.69 |
|  | 25RB |        | 16QAM | 20.65 | 20.74 | 20.62 |
|  |      |        | QPSK  | 21.70 | 21.80 | 21.67 |

|        |      |        |       |                       |          |          |
|--------|------|--------|-------|-----------------------|----------|----------|
| 10 MHz | 1RB  | High   | QPSK  | 22.64                 | 22.73    | 22.61    |
|        |      |        | 16QAM | 21.72                 | 21.81    | 21.70    |
|        |      | Middle | QPSK  | 22.65                 | 22.75    | 22.62    |
|        |      |        | 16QAM | 21.74                 | 21.84    | 21.70    |
|        |      | Low    | QPSK  | 22.65                 | 22.75    | 22.62    |
|        |      |        | 16QAM | 21.74                 | 21.82    | 21.71    |
|        | 25RB | High   | QPSK  | 21.69                 | 21.80    | 21.67    |
|        |      |        | 16QAM | 20.62                 | 20.72    | 20.59    |
|        |      | Middle | QPSK  | 21.69                 | 21.80    | 21.67    |
|        |      |        | 16QAM | 20.66                 | 20.74    | 20.61    |
|        |      | Low    | QPSK  | 21.68                 | 21.78    | 21.65    |
|        |      |        | 16QAM | 20.64                 | 20.73    | 20.61    |
|        | 50RB | /      | QPSK  | 21.71                 | 21.80    | 21.66    |
|        |      |        | 16QAM | 20.60                 | 20.69    | 20.55    |
| 15 MHz |      |        |       | 822.5MHz <sub>Z</sub> | 831.5MHz | 841.5MHz |
|        | 1RB  | High   | QPSK  | 22.67                 | 22.76    | 22.65    |
|        |      |        | 16QAM | 21.73                 | 21.82    | 21.71    |
|        |      | Middle | QPSK  | 22.64                 | 22.76    | 22.61    |
|        |      |        | 16QAM | 21.74                 | 21.85    | 21.71    |
|        |      | Low    | QPSK  | 22.66                 | 22.75    | 22.64    |
|        |      |        | 16QAM | 21.75                 | 21.84    | 21.73    |
|        | 36RB | High   | QPSK  | 21.71                 | 21.81    | 21.68    |
|        |      |        | 16QAM | 20.62                 | 20.70    | 20.58    |
|        |      | Middle | QPSK  | 21.69                 | 21.80    | 21.64    |
|        |      |        | 16QAM | 20.64                 | 20.73    | 20.59    |
|        |      | Low    | QPSK  | 21.72                 | 21.83    | 21.70    |
|        |      |        | 16QAM | 20.60                 | 20.70    | 20.57    |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|  |      |   |       |       |       |       |
|--|------|---|-------|-------|-------|-------|
|  | 75RB | / | QPSK  | 21.62 | 21.72 | 21.59 |
|  |      |   | 16QAM | 20.55 | 20.66 | 20.52 |

**Conducted Power Measurement Results (LTE TDD Band 38)**

| LTE-TDD Band 38 |               |           |            | Actual output Power (dBm) |        |        |
|-----------------|---------------|-----------|------------|---------------------------|--------|--------|
| Band-width      | RB allocation | RB offset | Modulation | Low                       | Middle | High   |
| 5 MHz           | 1RB           | High      | QPSK       | 2572.5                    | 2595   | 2617.5 |
|                 |               |           | 16QAM      | 22.62                     | 22.69  | 22.59  |
|                 |               | Middle    | QPSK       | 21.57                     | 21.64  | 21.54  |
|                 |               |           | 16QAM      | 22.64                     | 22.72  | 22.61  |
|                 |               | Low       | QPSK       | 21.59                     | 21.67  | 21.54  |
|                 |               |           | 16QAM      | 22.63                     | 22.69  | 22.58  |
|                 | 12RB          | High      | QPSK       | 21.57                     | 21.64  | 21.54  |
|                 |               |           | 16QAM      | 21.72                     | 21.81  | 21.65  |
|                 |               | Middle    | QPSK       | 20.46                     | 20.57  | 20.42  |
|                 |               |           | 16QAM      | 21.72                     | 21.8   | 21.68  |
|                 |               | Low       | QPSK       | 20.47                     | 20.55  | 20.41  |
|                 |               |           | 16QAM      | 21.71                     | 21.78  | 21.67  |
|                 | 25RB          |           | QPSK       | 20.49                     | 20.56  | 20.45  |
|                 |               |           | 16QAM      | 21.69                     | 21.77  | 21.65  |
| 10 MHz          | 1RB           | High      | QPSK       | 2575                      | 2595   | 2615   |
|                 |               |           | 16QAM      | 22.62                     | 22.69  | 22.59  |
|                 |               | Middle    | QPSK       | 21.57                     | 21.64  | 21.54  |
|                 |               |           | 16QAM      | 22.64                     | 22.72  | 22.61  |
|                 |               | Low       | QPSK       | 21.59                     | 21.67  | 21.54  |
|                 |               |           | 16QAM      | 22.63                     | 22.69  | 22.58  |
|                 | 25RB          | High      | QPSK       | 21.57                     | 21.64  | 21.54  |
|                 |               |           | 16QAM      | 21.72                     | 21.81  | 21.65  |
|                 |               | Middle    | QPSK       | 20.46                     | 20.57  | 20.42  |
|                 |               |           | 16QAM      | 21.72                     | 21.8   | 21.68  |
|                 |               | Low       | QPSK       | 20.47                     | 20.55  | 20.41  |
|                 |               |           | 16QAM      | 21.71                     | 21.78  | 21.67  |
|                 | 50RB          |           | QPSK       | 20.49                     | 20.56  | 20.45  |
|                 |               |           | 16QAM      | 21.69                     | 21.77  | 21.65  |
| 15 MHz          | 1RB           | High      | QPSK       | 2577.5                    | 2595   | 2612.5 |
|                 |               |           | 16QAM      | 22.66                     | 22.73  | 22.63  |
|                 |               | Middle    | QPSK       | 21.57                     | 21.64  | 21.54  |
|                 |               |           | 16QAM      | 22.63                     | 22.73  | 22.59  |
|                 |               | Low       | QPSK       | 21.58                     | 21.67  | 21.54  |
|                 |               |           | 16QAM      |                           |        |        |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|        |       |        |       |       |       |       |
|--------|-------|--------|-------|-------|-------|-------|
| 20 MHz | 36RB  | Low    | QPSK  | 22.65 | 22.72 | 22.62 |
|        |       |        | 16QAM | 21.59 | 21.66 | 21.56 |
|        |       | High   | QPSK  | 21.7  | 21.78 | 21.66 |
|        |       |        | 16QAM | 20.46 | 20.52 | 20.41 |
|        |       | Middle | QPSK  | 21.68 | 21.77 | 21.62 |
|        |       |        | 16QAM | 20.48 | 20.55 | 20.42 |
|        | 75RB  | Low    | QPSK  | 21.71 | 21.8  | 21.68 |
|        |       |        | 16QAM | 20.44 | 20.52 | 20.4  |
|        |       | High   | QPSK  | 21.61 | 21.69 | 21.57 |
|        |       |        | 16QAM | 20.39 | 20.48 | 20.35 |
|        |       | Middle | QPSK  | 21.68 | 21.77 | 21.62 |
|        |       |        | 16QAM | 20.48 | 20.55 | 20.42 |
|        | 1RB   | High   | QPSK  | 22.62 | 22.72 | 22.69 |
|        |       |        | 16QAM | 21.57 | 21.66 | 21.65 |
|        |       | Middle | QPSK  | 22.65 | 22.73 | 22.72 |
|        |       |        | 16QAM | 21.6  | 21.66 | 21.64 |
|        |       | Low    | QPSK  | 22.67 | 22.74 | 22.74 |
|        |       |        | 16QAM | 21.6  | 21.67 | 21.67 |
|        |       | High   | QPSK  | 21.71 | 21.81 | 21.68 |
|        |       |        | 16QAM | 20.44 | 20.54 | 20.5  |
|        |       | Middle | QPSK  | 21.7  | 21.78 | 21.76 |
|        |       |        | 16QAM | 20.5  | 20.58 | 20.56 |
|        |       | Low    | QPSK  | 21.71 | 21.78 | 21.77 |
|        |       |        | 16QAM | 20.51 | 20.58 | 20.57 |
|        | 100RB | High   | QPSK  | 21.64 | 21.74 | 21.68 |
|        |       |        | 16QAM | 20.38 | 20.48 | 20.42 |

## Conducted Power Measurement Results (LTE TDD Band 41)

| LTE-TDD Band 41 |               |           |            | Actual output Power (dBm) |            |          |            |            |
|-----------------|---------------|-----------|------------|---------------------------|------------|----------|------------|------------|
| BW              | RB allocation | RB offset | Modulation | Low                       | Middle1    | Middle2  | Middle3    | High       |
| 5 MHz           | 1RB           |           |            | 2498.5 MHz                | 2545.8 MHz | 2593 MHz | 2640.3 MHz | 2687.5 MHz |
|                 |               |           | High       | QPSK                      | 22.51      | 22.45    | 22.54      | 22.52      |
|                 |               |           |            | 16QAM                     | 21.5       | 21.39    | 21.45      | 21.43      |
|                 |               |           | Middle     | QPSK                      | 22.53      | 22.47    | 22.54      | 22.51      |
|                 |               |           |            | 16QAM                     | 21.49      | 21.44    | 21.51      | 21.5       |
|                 |               |           | Low        | QPSK                      | 22.54      | 22.47    | 22.49      | 22.53      |
|                 |               |           |            | 16QAM                     | 21.47      | 21.43    | 21.47      | 21.5       |
|                 |               |           | High       | QPSK                      | 21.63      | 21.61    | 21.65      | 21.63      |
|                 |               |           |            | 16QAM                     | 20.37      | 20.37    | 20.44      | 20.42      |
|                 |               |           | Middle     | QPSK                      | 21.62      | 21.64    | 21.7       | 21.7       |
|                 |               |           |            | 16QAM                     | 20.39      | 20.38    | 20.46      | 20.42      |
|                 |               |           | Low        | QPSK                      | 21.63      | 21.61    | 21.65      | 21.63      |
|                 |               |           |            | 16QAM                     | 20.37      | 20.37    | 20.44      | 20.42      |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
 400-003-0500  
 www.anbotek.com

|           |           |        |       |             |               |               |             |               |
|-----------|-----------|--------|-------|-------------|---------------|---------------|-------------|---------------|
|           |           | Low    | QPSK  | 21.6        | 21.64         | 21.67         | 21.63       | 21.56         |
|           |           |        | 16QAM | 20.36       | 20.46         | 20.49         | 20.4        | 20.33         |
|           | 25RB      |        | QPSK  | 21.65       | 21.63         | 21.73         | 21.65       | 21.58         |
|           |           |        | 16QAM | 20.39       | 20.43         | 20.49         | 20.45       | 20.38         |
| 10<br>MHz |           |        |       | 2501<br>MHz | 2547<br>MHz   | 2593<br>MHz   | 2639<br>MHz | 2685<br>MHz   |
|           | 1RB       | High   | QPSK  | 22.58       | 22.53         | 22.55         | 22.5        | 22.52         |
|           |           |        | 16QAM | 21.5        | 21.45         | 21.49         | 21.47       | 21.49         |
|           |           | Middle | QPSK  | 22.58       | 22.53         | 22.51         | 22.47       | 22.49         |
|           |           |        | 16QAM | 21.54       | 21.49         | 21.5          | 21.47       | 21.49         |
|           |           | Low    | QPSK  | 22.53       | 22.48         | 22.48         | 22.48       | 22.5          |
|           |           |        | 16QAM | 21.51       | 21.46         | 21.48         | 21.48       | 21.5          |
|           | 25RB      | High   | QPSK  | 21.58       | 21.61         | 21.65         | 21.66       | 21.59         |
|           |           |        | 16QAM | 20.35       | 20.38         | 20.39         | 20.39       | 20.32         |
|           |           | Middle | QPSK  | 21.65       | 21.68         | 21.68         | 21.66       | 21.59         |
|           |           |        | 16QAM | 20.41       | 20.44         | 20.45         | 20.46       | 20.39         |
|           |           | Low    | QPSK  | 21.64       | 21.67         | 21.71         | 21.62       | 21.55         |
|           |           |        | 16QAM | 20.35       | 20.38         | 20.41         | 20.43       | 20.36         |
|           | 50RB      |        | QPSK  | 21.64       | 21.67         | 21.67         | 21.65       | 21.58         |
|           |           |        | 16QAM | 20.37       | 20.4          | 20.43         | 20.42       | 20.35         |
|           | 15<br>MHz |        |       |             | 2503.5<br>MHz | 2548.3<br>MHz | 2593<br>MHz | 2637.8<br>MHz |
| 1RB       |           | High   | QPSK  | 22.53       | 22.48         | 22.53         | 22.5        | 22.52         |
|           |           |        | 16QAM | 21.5        | 21.45         | 21.48         | 21.48       | 21.5          |
|           |           | Middle | QPSK  | 22.51       | 22.46         | 22.56         | 22.52       | 22.54         |
|           |           |        | 16QAM | 21.52       | 21.47         | 21.51         | 21.5        | 21.52         |
|           |           | Low    | QPSK  | 22.56       | 22.51         | 22.53         | 22.5        | 22.52         |
|           |           |        | 16QAM | 21.49       | 21.44         | 21.48         | 21.5        | 21.52         |
| 36RB      |           | High   | QPSK  | 21.56       | 21.59         | 21.68         | 21.65       | 21.58         |
|           |           |        | 16QAM | 20.36       | 20.39         | 20.43         | 20.4        | 20.33         |
|           |           | Middle | QPSK  | 21.6        | 21.63         | 21.69         | 21.67       | 21.6          |
|           |           |        | 16QAM | 20.37       | 20.4          | 20.45         | 20.41       | 20.34         |
|           |           | Low    | QPSK  | 21.61       | 21.64         | 21.64         | 21.65       | 21.58         |
|           |           |        | 16QAM | 20.43       | 20.46         | 20.48         | 20.39       | 20.32         |
| 75RB      |           |        | QPSK  | 21.62       | 21.65         | 21.71         | 21.69       | 21.62         |
|           |           |        | 16QAM | 20.4        | 20.43         | 20.45         | 20.41       | 20.34         |
| 20<br>MHz |           |        |       |             | 2506<br>MHz   | 2549.5<br>MHz | 2593<br>MHz | 2636.5<br>MHz |
|           | 1RB       | High   | QPSK  | 22.53       | 22.49         | 22.57         | 22.53       | 22.52         |
|           |           |        | 16QAM | 21.5        | 21.48         | 21.5          | 21.48       | 21.5          |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

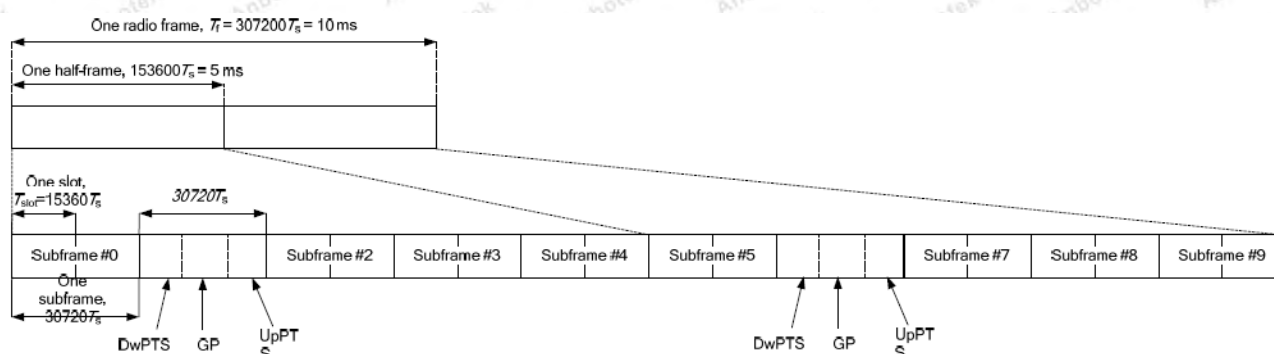
www.anbotek.com

|  |       |        |       |       |       |       |       |       |
|--|-------|--------|-------|-------|-------|-------|-------|-------|
|  |       | Middle | QPSK  | 22.51 | 22.51 | 22.59 | 22.58 | 22.54 |
|  |       |        | 16QAM | 21.52 | 21.47 | 21.53 | 21.51 | 21.52 |
|  |       | Low    | QPSK  | 22.56 | 22.52 | 22.57 | 22.55 | 22.52 |
|  |       |        | 16QAM | 21.49 | 21.45 | 21.48 | 21.47 | 21.52 |
|  | 50RB  | High   | QPSK  | 21.56 | 21.72 | 21.74 | 21.7  | 21.58 |
|  |       |        | 16QAM | 20.36 | 20.4  | 20.46 | 20.41 | 20.33 |
|  |       | Middle | QPSK  | 21.6  | 21.65 | 21.7  | 21.69 | 21.6  |
|  |       |        | 16QAM | 20.37 | 20.42 | 20.46 | 20.43 | 20.34 |
|  |       | Low    | QPSK  | 21.61 | 21.63 | 21.66 | 21.71 | 21.58 |
|  |       |        | 16QAM | 20.43 | 20.39 | 20.46 | 20.43 | 20.32 |
|  | 100RB |        | QPSK  | 21.62 | 21.68 | 21.74 | 21.71 | 21.62 |
|  |       |        | 16QAM | 20.4  | 20.42 | 20.48 | 20.55 | 20.34 |

### TDD test:

TDD testing is performed using guidance from FCC KDB 941225 D05v02r03 and the SAR test guidance provided in April 2013 TCB works hop notes. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05v02r03. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211.

Frame structure type 2 (for 5 ms switch-point periodicity)



Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

| Special subframe configuration | Normal cyclic prefix in downlink |                                |                                  | Extended cyclic prefix in downlink |                                |                                  |
|--------------------------------|----------------------------------|--------------------------------|----------------------------------|------------------------------------|--------------------------------|----------------------------------|
|                                | DwPTS                            | UpPTS                          |                                  | DwPTS                              | UpPTS                          |                                  |
|                                |                                  | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |                                    | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| 0                              | $6592 \cdot T_s$                 | $2192 \cdot T_s$               | $2560 \cdot T_s$                 | $7680 \cdot T_s$                   | $2192 \cdot T_s$               | $2560 \cdot T_s$                 |
| 1                              | $19760 \cdot T_s$                |                                |                                  | $20480 \cdot T_s$                  |                                |                                  |
| 2                              | $21952 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 3                              | $24144 \cdot T_s$                |                                |                                  | $25600 \cdot T_s$                  |                                |                                  |
| 4                              | $26336 \cdot T_s$                | $4384 \cdot T_s$               | $5120 \cdot T_s$                 | $7680 \cdot T_s$                   | $4384 \cdot T_s$               | $5120 \cdot T_s$                 |
| 5                              | $6592 \cdot T_s$                 |                                |                                  | $20480 \cdot T_s$                  |                                |                                  |
| 6                              | $19760 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 7                              | $21952 \cdot T_s$                |                                |                                  | $12800 \cdot T_s$                  | -                              | -                                |
| 8                              | $24144 \cdot T_s$                |                                |                                  | -                                  |                                |                                  |
| 9                              | $13168 \cdot T_s$                |                                |                                  | -                                  | -                              | -                                |

### Uplink-downlink configurations

| Uplink-downlink configuration | Downlink-to-Uplink Switch-point periodicity | Subframe number |   |   |   |   |   |   |   |   |   |
|-------------------------------|---------------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
|                               |                                             | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | U |
| 1                             | 5 ms                                        | D               | S | U | U | D | D | S | U | U | D |
| 2                             | 5 ms                                        | D               | S | U | D | D | D | S | U | D | D |
| 3                             | 10 ms                                       | D               | S | U | U | U | D | D | D | D | D |
| 4                             | 10 ms                                       | D               | S | U | U | D | D | D | D | D | D |
| 5                             | 10 ms                                       | D               | S | U | D | D | D | D | D | D | D |
| 6                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | D |

Duty factor is calculated by:

Duty factor = uplink frame\*6+UpPTS\*2/one frame length

=  $(30720 \cdot T_s \cdot 6 + 5120 \cdot T_s \cdot 2) / 307200 \cdot T_s$

= 0.633

According to the KDB 447498 D01, SAR should be evaluated at more than 3 frequencies for devices supporting transmit bands wider than 100MHz. Oct.2014 FCC-TCB conference notes

(Dec. 2014 rev.) specifies the 5 test channels to use for 3GPP band 41 SAR evaluation.

### <WIFI 2.4GHz Conducted Power>

| Mode    | Channel | Frequency (MHz) | Conducted Peak Power (dBm) | Conducted Average Power (dBm) | Data rate |
|---------|---------|-----------------|----------------------------|-------------------------------|-----------|
| 802.11b | 01      | 2412            | 11.55                      | 9.20                          | 1 Mbps    |

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|                 |    |      |       |      |           |
|-----------------|----|------|-------|------|-----------|
|                 | 06 | 2437 | 11.51 | 9.17 | 1 Mbps    |
|                 | 11 | 2462 | 11.74 | 9.29 | 1 Mbps    |
|                 | 01 | 2412 | 12.07 | 9.25 | 6 Mbps    |
| 802.11g         | 06 | 2437 | 12.26 | 9.21 | 6 Mbps    |
|                 | 11 | 2462 | 12.19 | 9.28 | 6 Mbps    |
|                 | 01 | 2412 | 12.30 | 9.51 | 6.5 Mbps  |
| 802.11n(20M Hz) | 06 | 2437 | 12.33 | 9.55 | 6.5 Mbps  |
|                 | 11 | 2462 | 12.17 | 9.35 | 6.5 Mbps  |
|                 | 3  | 2422 | 12.19 | 9.32 | 13.5 Mbps |
| 802.11n(40M Hz) | 7  | 2442 | 12.26 | 9.36 | 13.5 Mbps |
|                 | 11 | 2462 | 12.23 | 9.31 | 13.5 Mbps |

## &lt;WIFI 5GHz Conducted Power&gt;

| Mode           | Frequency range (MHz) | Channel | Frequency (MHz) | Conducted power (dBm) | Data rate |
|----------------|-----------------------|---------|-----------------|-----------------------|-----------|
| 802.11a        | 5150~ 5250            | 36      | 5180            | 12.07                 | 6Mbps     |
|                |                       | 40      | 5200            | 12.54                 | 6Mbps     |
|                |                       | 48      | 5240            | 12.77                 | 6Mbps     |
|                | 5725~5850             | 149     | 5745            | 11.07                 | 6Mbps     |
|                |                       | 157     | 5785            | 11.54                 | 6Mbps     |
|                |                       | 165     | 5825            | 11.77                 | 6Mbps     |
| 802.11n(H20)   | 5150~ 5250            | 36      | 5180            | 12.73                 | MSC0      |
|                |                       | 40      | 5200            | 12.19                 | MSC0      |
|                |                       | 48      | 5240            | 12.90                 | MSC0      |
|                | 5725~5850             | 149     | 5745            | 11.73                 | MSC0      |
|                |                       | 157     | 5785            | 11.19                 | MSC0      |
|                |                       | 165     | 5825            | 11.90                 | MSC0      |
| 802.11n(H40)   | 5150~ 5250            | 38      | 5190            | 12.31                 | MSC0      |
|                |                       | 46      | 5230            | 12.81                 | MSC0      |
|                | 5725~5850             | 151     | 5755            | 11.31                 | MSC0      |
|                |                       | 159     | 5795            | 11.81                 | MSC0      |
| 802.11ac( H20) | 5150~ 5250            | 36      | 5180            | 12.08                 | 6Mbps     |
|                |                       | 40      | 5200            | 12.32                 | 6Mbps     |
|                |                       | 48      | 5240            | 12.83                 | 6Mbps     |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|               |            |     |      |       |       |
|---------------|------------|-----|------|-------|-------|
|               | 5725~5850  | 149 | 5745 | 11.08 | 6Mbps |
|               |            | 157 | 5785 | 11.32 | 6Mbps |
|               |            | 165 | 5825 | 11.83 | 6Mbps |
| 802.11ac(H40) | 5150~ 5250 | 38  | 5190 | 12.29 | MSC0  |
|               |            | 46  | 5230 | 12.80 | MSC0  |
|               | 5725~5850  | 151 | 5755 | 11.29 | MSC0  |
|               |            | 159 | 5795 | 11.80 | MSC0  |

## &lt;Bluetooth Conducted Power&gt;

**Conducted Power Measurement Results (Bluetooth)**

| Mode      | Channel | Frequency (MHz) | Conducted power (dBm) |
|-----------|---------|-----------------|-----------------------|
| GFSK      | 0       | 2402            | 2.54                  |
|           | 39      | 2441            | 3.53                  |
|           | 78      | 2480            | 2.73                  |
| π/4QPSK   | 0       | 2402            | 1.72                  |
|           | 39      | 2441            | 2.59                  |
|           | 78      | 2480            | 1.83                  |
| 8DPSK     | 0       | 2402            | 2.01                  |
|           | 39      | 2441            | 2.88                  |
|           | 78      | 2480            | 2.14                  |
| BLE(GFSK) | 0       | 2402            | 2.38                  |
|           | 19      | 2440            | 2.48                  |
|           | 39      | 2480            | 2.46                  |

## &lt;PMR Conducted Power&gt;

| Modulation Type | Channel Separation | Test Channel | Test Frequency (MHz) | Average Transmitter Power |         |
|-----------------|--------------------|--------------|----------------------|---------------------------|---------|
|                 |                    |              |                      | Rated High power level    |         |
|                 |                    |              |                      | (dBm)                     | (Watts) |
| Analog/FM       | 12.5KHz            | Ch1          | 136.05               | 35.83                     | 3.83    |
|                 |                    | Ch2          | 150.825              | 35.97                     | 3.95    |
|                 |                    | Ch3          | 155.00               | 36.31                     | 4.28    |
|                 |                    | Ch4          | 164.50               | 36.20                     | 4.17    |
|                 |                    | Ch5          | 173.375              | 36.11                     | 4.08    |
|                 |                    | Ch6          | 173.95               | 36.07                     | 4.05    |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
 400-003-0500  
 www.anbotek.com

|             |         |      |         |       |      |
|-------------|---------|------|---------|-------|------|
| Digital/FSK | 12.5KHz | Ch1  | 136.05  | 36.14 | 4.11 |
|             |         | Ch2  | 150.825 | 36.07 | 4.05 |
|             |         | Ch3  | 155.00  | 36.15 | 4.12 |
|             |         | Ch4  | 164.50  | 36.06 | 4.04 |
|             |         | Ch5  | 173.375 | 36.09 | 4.06 |
|             |         | Ch6  | 173.95  | 36.12 | 4.09 |
| Analog/FM   | 12.5KHz | Ch7  | 400.05  | 36.39 | 4.36 |
|             |         | Ch8  | 406.15  | 36.51 | 4.48 |
|             |         | Ch9  | 417.00  | 36.56 | 4.53 |
|             |         | Ch10 | 435.05  | 36.70 | 4.68 |
|             |         | Ch11 | 452.00  | 36.81 | 4.80 |
|             |         | Ch12 | 469.95  | 36.61 | 4.58 |
| Digital/FSK | 12.5KHz | Ch7  | 400.05  | 36.70 | 4.68 |
|             |         | Ch8  | 406.15  | 36.70 | 4.68 |
|             |         | Ch9  | 417.00  | 36.73 | 4.71 |
|             |         | Ch10 | 435.05  | 36.73 | 4.71 |
|             |         | Ch11 | 452.00  | 36.77 | 4.75 |
|             |         | Ch12 | 469.95  | 36.60 | 4.57 |

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## 11. Maximum Tune-up Limit

| Mode                   | Burst Average Power (dBm) |         |
|------------------------|---------------------------|---------|
|                        | GSM850                    | PCS1900 |
| GSM (GMSK, 1Tx Slot)   | 32.00                     | 31.00   |
| GPRS (GMSK, 1Tx Slot)  | 32.00                     | 31.00   |
| GPRS (GMSK, 2Tx Slot)  | 30.00                     | 29.00   |
| GPRS (GMSK, 3Tx Slot)  | 29.00                     | 27.00   |
| GPRS (GMSK, 4Tx Slot)  | 28.00                     | 26.00   |
| EGPRS (8PSK, 1Tx Slot) | 28.00                     | 25.00   |
| EGPRS (8PSK, 2Tx Slot) | 26.00                     | 25.00   |
| EGPRS (8PSK, 3Tx Slot) | 26.00                     | 25.00   |
| EGPRS (8PSK, 4Tx Slot) | 25.00                     | 24.00   |

| Mode            | Burst Average Power (dBm) |              |
|-----------------|---------------------------|--------------|
|                 | WCDMA Band II             | WCDMA Band V |
| RMC 12.2Kbps    | 22.50                     | 23.50        |
| HSDPA Subtest-1 | 21.00                     | 22.00        |
| HSDPA Subtest-2 | 21.00                     | 22.00        |
| HSDPA Subtest-3 | 21.00                     | 22.00        |
| HSDPA Subtest-4 | 21.00                     | 22.00        |
| HSUPA Subtest-1 | 21.00                     | 22.00        |
| HSUPA Subtest-2 | 21.00                     | 21.50        |
| HSUPA Subtest-3 | 21.00                     | 21.50        |
| HSUPA Subtest-4 | 21.00                     | 21.50        |
| HSUPA Subtest-5 | 21.00                     | 21.50        |
| HSPA+           | 21.00                     | 21.50        |

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com

## LTE

| Mode        | Target Power |              |              |
|-------------|--------------|--------------|--------------|
| QPSK        | 1RB          | 50%RB        | 100%RB       |
| LTE BAND 2  | 22±1.5 dBm   | 21±1.5 dBm   | 21±1.5 dBm   |
| LTE BAND 4  | 22±1.5 dBm   | 21±1.5 dBm   | 21±1.5 dBm   |
| LTE BAND 5  | 22±1.5 dBm   | 21±1.5 dBm   | 21±1.5 dBm   |
| LTE BAND 7  | 21.5±1.5 dBm | 20.5±1.5 dBm | 20.5±1.5 dBm |
| LTE BAND 12 | 21.5±1.5 dBm | 21±1.5 dBm   | 21±1.5 dBm   |
| LTE BAND 17 | 21.5±1.5 dBm | 21±1.5 dBm   | 21±1.5 dBm   |
| LTE BAND 26 | 21.5±1.5 dBm | 21±1.5 dBm   | 21±1.5 dBm   |
| LTE BAND 38 | 21.5±1.5 dBm | 20.5±1.5 dBm | 20.5±1.5 dBm |
| LTE BAND 41 | 21.5±1.5 dBm | 20.5±1.5 dBm | 20.5±1.5 dBm |

| Mode        | Target Power |              |              |
|-------------|--------------|--------------|--------------|
| 16QAM       | 1RB          | 50%RB        | 100%RB       |
| LTE BAND 2  | 22±1.5 dBm   | 21±1.5 dBm   | 21±1.5 dBm   |
| LTE BAND 4  | 22±1.5 dBm   | 21±1.5 dBm   | 21±1.5 dBm   |
| LTE BAND 5  | 22±1.5 dBm   | 21±1.5 dBm   | 21±1.5 dBm   |
| LTE BAND 7  | 21.5±1.5 dBm | 20.5±1.5 dBm | 20.5±1.5 dBm |
| LTE BAND 12 | 22±1.5 dBm   | 21±1.5 dBm   | 21±1.5 dBm   |
| LTE BAND 17 | 21.5±1.5 dBm | 21±1.5 dBm   | 21±1.5 dBm   |
| LTE BAND 26 | 21±1.5 dBm   | 20±1.5 dBm   | 20±1.5 dBm   |
| LTE BAND 38 | 21±2 dBm     | 20.5±1.5 dBm | 20.5±1.5 dBm |
| LTE BAND 41 | 21.5±1.5 dBm | 20.5±1.5 dBm | 20.5±1.5 dBm |

## LTE MPR will follow up 3GPP setting as below:

| Modulation | Channel bandwidth / Transmission bandwidth (NRB) |        |      |       |       |       | MPR (dB) |
|------------|--------------------------------------------------|--------|------|-------|-------|-------|----------|
|            | 1.4MHz                                           | 3.0MHz | 5MHz | 10MHz | 15MHz | 20MHz |          |
| QPSK       | ≤ 5                                              | ≤ 4    | ≤ 8  | ≤ 12  | ≤ 16  | ≤ 18  | 0        |
| QPSK       | > 5                                              | > 4    | > 8  | > 12  | > 16  | > 18  | 1        |
| 16 QAM     | ≤ 5                                              | ≤ 4    | ≤ 8  | ≤ 12  | ≤ 16  | ≤ 18  | 1        |
| 16 QAM     | > 5                                              | > 4    | > 8  | > 12  | > 16  | > 18  | 2        |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## WLAN 2.4G

| Mode          | Peak Power (dBm) | Burst Average Power (dBm) |
|---------------|------------------|---------------------------|
| 802.11b       | 12.50            | 10.00                     |
| 802.11g       | 12.50            | 10.00                     |
| 802.11n(HT20) | 12.50            | 10.00                     |
| 802.11n(HT40) | 12.50            | 10.00                     |

## WLAN 5G

| Mode           | Frequency range (MHz) | Channel | Frequency (MHz) | Tune up power (dBm) | Data rate |
|----------------|-----------------------|---------|-----------------|---------------------|-----------|
| 802.11a        | 5150~ 5250            | 36      | 5180            | 13.00               | 6Mbps     |
|                |                       | 40      | 5200            | 13.00               | 6Mbps     |
|                |                       | 48      | 5240            | 13.00               | 6Mbps     |
|                | 5725~5850             | 149     | 5745            | 12.00               | 6Mbps     |
|                |                       | 157     | 5785            | 12.00               | 6Mbps     |
|                |                       | 165     | 5825            | 12.00               | 6Mbps     |
| 802.11n(H20)   | 5150~ 5250            | 36      | 5180            | 13.00               | MSC0      |
|                |                       | 40      | 5200            | 13.00               | MSC0      |
|                |                       | 48      | 5240            | 13.00               | MSC0      |
|                | 5725~5850             | 149     | 5745            | 12.00               | MSC0      |
|                |                       | 157     | 5785            | 12.00               | MSC0      |
|                |                       | 165     | 5825            | 12.00               | MSC0      |
| 802.11n(H40)   | 5150~ 5250            | 38      | 5190            | 13.00               | MSC0      |
|                |                       | 46      | 5230            | 13.00               | MSC0      |
|                | 5725~5850             | 151     | 5755            | 12.00               | MSC0      |
|                |                       | 159     | 5795            | 12.00               | MSC0      |
| 802.11ac( H20) | 5150~ 5250            | 36      | 5180            | 13.00               | 6Mbps     |
|                |                       | 40      | 5200            | 13.00               | 6Mbps     |
|                |                       | 48      | 5240            | 13.00               | 6Mbps     |
|                | 5725~5850             | 149     | 5745            | 12.00               | 6Mbps     |
|                |                       | 157     | 5785            | 12.00               | 6Mbps     |
|                |                       | 165     | 5825            | 12.00               | 6Mbps     |
| 802.11ac(H40)  | 5150~ 5250            | 38      | 5190            | 13.00               | MSC0      |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|  |           |     |      |       |      |
|--|-----------|-----|------|-------|------|
|  |           | 46  | 5230 | 13.00 | MSC0 |
|  | 5725~5850 | 151 | 5755 | 12.00 | MSC0 |
|  |           | 159 | 5795 | 12.00 | MSC0 |

**BT**

| Mode         | Conducted Peak Power (dBm) |
|--------------|----------------------------|
| GFSK         | 4.00                       |
| $\pi$ /4QPSK | 3.00                       |
| 8DPSK        | 3.00                       |
| BLE          | 3.00                       |

Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances  $\leq 50\text{mm}$  are determined by:

$[(\text{max. Power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR

| Band/Mode | F(GHz) | Position | SAR test exclusion threshold (mW) | RF output power |      | SAR test exclusion |
|-----------|--------|----------|-----------------------------------|-----------------|------|--------------------|
|           |        |          |                                   | dBm             | mW   |                    |
| Bluetooth | 2.45   | Head     | 9.6                               | 4               | 2.51 | Yes                |
|           |        | Body     | 19.2                              | 4               | 2.51 | Yes                |

Per KDB 447498 D01, when the minimum test separation distance is  $< 5\text{mm}$ , a distance of 5mm is applied to determine SAR test exclusion.

The test exclusion threshold is  $\leq 3$ , SAR testing is not required.

**PMR**

| Modulation Type | Channel Separation | Test Channel | Test Frequency | Tune up Power High power level (dBm) |
|-----------------|--------------------|--------------|----------------|--------------------------------------|
| Digital/4FSK    | 12.5KHz            | Ch1          | 136.05         | 36.50                                |
|                 |                    | Ch2          | 145.50         | 36.50                                |
|                 |                    | Ch3          | 155.00         | 36.50                                |
|                 |                    | Ch4          | 164.50         | 36.50                                |
|                 |                    | Ch5          | 173.95         | 36.50                                |
| Digital/4FSK    | 12.5KHz            | Ch6          | 406.10         | 36.80                                |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com

|  |  |      |        |       |
|--|--|------|--------|-------|
|  |  | Ch7  | 417.00 | 36.80 |
|  |  | Ch8  | 435.05 | 36.80 |
|  |  | Ch9  | 452.00 | 36.80 |
|  |  | Ch10 | 469.95 | 36.80 |

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

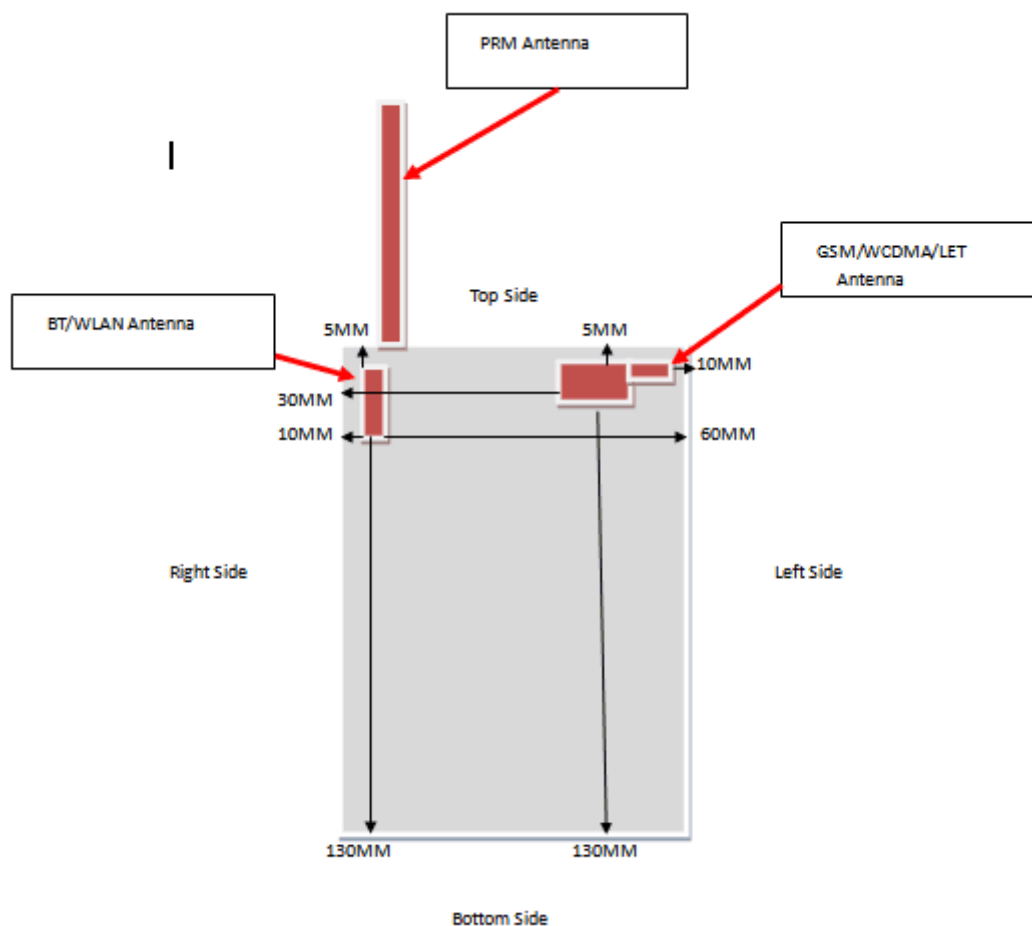


Hotline

400-003-0500

www.anbotek.com

## 12. Antenna Location



Distance of The Antenna to the EUT surface and edge

| Antennas | Front | Back  | Top Side | Bottom Side | Left Side | Right Side |
|----------|-------|-------|----------|-------------|-----------|------------|
| WWAN     | <25mm | <25mm | <25mm    | >25mm       | <25mm     | <25mm      |
| BT&WLAN  | <25mm | <25mm | <25mm    | >25mm       | <25mm     | <25mm      |

Positions for SAR tests; Hotspot mode

| Antennas | Back | Front | Top side | Bottom side | Right side | Left side |
|----------|------|-------|----------|-------------|------------|-----------|
| WWAN     | Yes  | Yes   | Yes      | No          | Yes        | Yes       |
| BT&WLAN  | Yes  | Yes   | Yes      | No          | Yes        | Yes       |

**General Note:** Referring to KDB 941225 D06 v02, SAR must be measured for all sides and surfaces with a transmitting antenna located with 25mm from that surface or edge.

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

### 13. SAR Test Results Summary

#### General Note:

1. Per KDB 447498 D01v05r01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.  
$$\text{Scaling Factor} = \text{tune-up limit power (mW)} / \text{EUT RF power (mW)}, \text{ where tune-up limit is the maximum rated power among all production units.}$$
$$\text{Reported SAR(W/kg)} = \text{Measured SAR(W/kg)} * \text{Scaling Factor}$$
2. Per KDB 447498 D01v05r01, for each exposure position, if the highest output channel reported SAR  $\leq 0.8$  W/kg, other channels SAR testing are not necessary
3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.
1. Per KDB 865664 D01, for each frequency band, **repeated SAR measurement is required** only when the measured SAR is  $\geq 0.8$  W/Kg; if the deviation among the repeated measurement is  $\leq 20\%$ , and the measured SAR  $< 1.45$  W/Kg, only one repeated measurement is required.

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com

## SAR Values GSM 850

| Test<br>Position                                      | Channel/<br>Frequency(MHz) | Test<br>Mode | Duty<br>Cycle | Maximum<br>Allowed<br>Power<br>(dBm) | Conducted<br>Power<br>(dBm) | Drift<br>± 0.21dB | Limit SAR <sub>1g</sub> 1.6 W/kg        |                   |                                         |                  |
|-------------------------------------------------------|----------------------------|--------------|---------------|--------------------------------------|-----------------------------|-------------------|-----------------------------------------|-------------------|-----------------------------------------|------------------|
|                                                       |                            |              |               |                                      |                             | Drift<br>(dB)     | Measured<br>SAR <sub>1g</sub><br>(W/kg) | Scaling<br>Factor | Reported<br>SAR <sub>1g</sub><br>(W/kg) | Graph<br>Results |
| Test Position of Head                                 |                            |              |               |                                      |                             |                   |                                         |                   |                                         |                  |
| Left/Cheek                                            | 190/836.6                  | Voice        | 1:1           | 32.00                                | 31.75                       | -0.03             | 0.367                                   | 1.06              | 0.389                                   | #1               |
| Left/Tilt                                             | 190/836.6                  | Voice        | 1:1           | 32.00                                | 31.75                       | 0.03              | 0.281                                   | 1.06              | 0.297                                   | N/A              |
| Right/Cheek                                           | 190/836.6                  | Voice        | 1:1           | 32.00                                | 31.75                       | 0.01              | 0.346                                   | 1.06              | 0.367                                   | N/A              |
| Right/Tilt                                            | 190/836.6                  | Voice        | 1:1           | 32.00                                | 31.75                       | -0.02             | 0.276                                   | 1.06              | 0.292                                   | N/A              |
| Test position of PPT Head Face up(Distance25mm)       |                            |              |               |                                      |                             |                   |                                         |                   |                                         |                  |
| Face up                                               | 190/836.6                  | 3Txslots     | 1:2.67        | 29.00                                | 28.44                       | -0.01             | 0.054                                   | 1.14              | 0.061                                   | N/A              |
| Test position of PPT Body-worn with clip(Distance0mm) |                            |              |               |                                      |                             |                   |                                         |                   |                                         |                  |
| Rear Side                                             | 190/836.6                  | 3Txslots     | 1:2.67        | 29.00                                | 28.44                       | 0.04              | 0.153                                   | 1.14              | 0.174                                   | N/A              |
| Hotspot Mode (Distance 10mm)                          |                            |              |               |                                      |                             |                   |                                         |                   |                                         |                  |
| Rear Side                                             | 190/836.6                  | 3Txslots     | 1:2.67        | 29.00                                | 28.44                       | 0.05              | 0.180                                   | 1.14              | 0.205                                   | #17              |
| Front Side                                            | 190/836.6                  | 3Txslots     | 1:2.67        | 29.00                                | 28.44                       | -0.02             | 0.119                                   | 1.14              | 0.135                                   | N/A              |
| Left Edge                                             | 190/836.6                  | 3Txslots     | 1:2.67        | 29.00                                | 28.44                       | -0.03             | 0.079                                   | 1.14              | 0.090                                   | N/A              |
| Right Edge                                            | 190/836.6                  | 3Txslots     | 1:2.67        | 29.00                                | 28.44                       | 0.02              | 0.057                                   | 1.14              | 0.065                                   | N/A              |
| Top Edge                                              | 190/836.6                  | 3Txslots     | 1:2.67        | 29.00                                | 28.44                       | 0.07              | 0.103                                   | 1.14              | 0.117                                   | N/A              |
| Bottom<br>Edge                                        | N/A                        | N/A          | N/A           | N/A                                  | N/A                         | N/A               | N/A                                     | N/A               | N/A                                     | N/A              |

Note: 1. The value with green color is the maximum SAR Value of each test band.

2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is optional for such test configuration(s).

3. When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.

4. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was  $\leq 1.2$  W/kg, no additional SAR evaluations using a headset cable were required.

5. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## SAR Values GSM 1900

| Test Position                                         | Channel/<br>Frequency(MHz) | Test Mode | Duty Cycle | Maximum Allowed Power (dBm) | Conducted Power (dBm) | Drift ± 0.21dB | Limit SAR <sub>1g</sub> 1.6 W/kg  |                |                                   |               |
|-------------------------------------------------------|----------------------------|-----------|------------|-----------------------------|-----------------------|----------------|-----------------------------------|----------------|-----------------------------------|---------------|
|                                                       |                            |           |            |                             |                       | Drift (dB)     | Measured SAR <sub>1g</sub> (W/kg) | Scaling Factor | Reported SAR <sub>1g</sub> (W/kg) | Graph Results |
| Test Position of Head                                 |                            |           |            |                             |                       |                |                                   |                |                                   |               |
| Left/Cheek                                            | 661/1880                   | Voice     | 1:1        | 31.00                       | 29.88                 | 0.18           | 0.284                             | 1.29           | 0.368                             | #2            |
| Left/Tilt                                             | 661/1880                   | Voice     | 1:1        | 31.00                       | 29.88                 | 0.13           | 0.211                             | 1.29           | 0.273                             |               |
| Right/Cheek                                           | 661/1880                   | Voice     | 1:1        | 31.00                       | 29.88                 | -0.09          | 0.261                             | 1.29           | 0.337                             |               |
| Right/Tilt                                            | 661/1880                   | Voice     | 1:1        | 31.00                       | 29.88                 | -0.11          | 0.199                             | 1.29           | 0.257                             |               |
| Test position of PPT Head Face up(Distance25mm)       |                            |           |            |                             |                       |                |                                   |                |                                   |               |
| Face up                                               | 661/1880                   | 3Txslots  | 1:2.67     | 27.00                       | 26.74                 | 0.05           | 0.030                             | 1.06           | 0.032                             | N/A           |
| Test position of PPT Body-worn with clip(Distance0mm) |                            |           |            |                             |                       |                |                                   |                |                                   |               |
| Rear Side                                             | 661/1880                   | 3Txslots  | 1:2.67     | 27.00                       | 26.74                 | -0.07          | 0.086                             | 1.06           | 0.091                             | N/A           |
| Test position of Hotspot Mode (Distance 10mm)         |                            |           |            |                             |                       |                |                                   |                |                                   |               |
| Rear Side                                             | 661/1880                   | 3Txslots  | 1:2.67     | 27.00                       | 26.74                 | -0.10          | 0.101                             | 1.06           | 0.107                             | #18           |
| Front Side                                            | 661/1880                   | 3Txslots  | 1:2.67     | 27.00                       | 26.74                 | 0.07           | 0.066                             | 1.06           | 0.070                             | N/A           |
| Left Edge                                             | 661/1880                   | 3Txslots  | 1:2.67     | 27.00                       | 26.74                 | 0.05           | 0.044                             | 1.06           | 0.047                             | N/A           |
| Right Edge                                            | 661/1880                   | 3Txslots  | 1:2.67     | 27.00                       | 26.74                 | 0.03           | 0.034                             | 1.06           | 0.036                             | N/A           |
| Top Edge                                              | 661/1880                   | 3Txslots  | 1:2.67     | 27.00                       | 26.74                 | -0.10          | 0.058                             | 1.06           | 0.061                             | N/A           |
| Bottom Edge                                           | N/A                        | N/A       | N/A        | N/A                         | N/A                   | N/A            | N/A                               | N/A            | N/A                               | N/A           |

Note: 1. The value with green color is the maximum SAR Value of each test band.

2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is optional for such test configuration(s).

3. When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.

4. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was  $\leq 1.2$  W/kg, no additional SAR evaluations using a headset cable were required.

5. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## SAR Values [WCDMA Band II]

| Test Position                                                       | Channel/<br>Frequency<br>(MHz) | Test Mode | Duty Cycle | Maximum Allowed Power<br>(dBm) | Conducted Power<br>(dBm) | ± 0.21dB   | Limit SAR <sub>1g</sub> 1.6 W/kg  |                |                                   |               |
|---------------------------------------------------------------------|--------------------------------|-----------|------------|--------------------------------|--------------------------|------------|-----------------------------------|----------------|-----------------------------------|---------------|
|                                                                     |                                |           |            |                                |                          | Drift (dB) | Measured SAR <sub>1g</sub> (W/kg) | Scaling Factor | Reported SAR <sub>1g</sub> (W/kg) | Graph Results |
| Test Position of Head                                               |                                |           |            |                                |                          |            |                                   |                |                                   |               |
| Left/Cheek                                                          | 9400/1880                      | RMC 12.2K | 1:1        | 22.50                          | 21.35                    | -0.12      | 0.272                             | 1.30           | 0.354                             | #3            |
| Left/Tilt                                                           | 9400/1880                      | RMC 12.2K | 1:1        | 22.50                          | 21.35                    | -0.10      | 0.224                             | 1.30           | 0.292                             | N/A           |
| Right/Cheek                                                         | 9400/1880                      | RMC 12.2K | 1:1        | 22.50                          | 21.35                    | -0.16      | 0.258                             | 1.30           | 0.336                             | N/A           |
| Right/Tilt                                                          | 9400/1880                      | RMC 12.2K | 1:1        | 22.50                          | 21.35                    | 0.05       | 0.208                             | 1.30           | 0.271                             | N/A           |
| Test position of PPT Head Face up(Distance25mm)                     |                                |           |            |                                |                          |            |                                   |                |                                   |               |
| Face up                                                             | 9400/1880                      | RMC 12.2K | 1:1        | 22.50                          | 21.35                    | 0.04       | 0.052                             | 1.30           | 0.068                             | N/A           |
| Test position of PPT Body-worn with clip(Distance0mm)               |                                |           |            |                                |                          |            |                                   |                |                                   |               |
| Rear Side                                                           | 9400/1880                      | RMC 12.2K | 1:1        | 22.50                          | 21.35                    | -0.11      | 0.138                             | 1.30           | 0.179                             | N/A           |
| Test position of Body-worn accessory & Hotspot Mode (Distance 10mm) |                                |           |            |                                |                          |            |                                   |                |                                   |               |
| Rear Side                                                           | 9400/1880                      | RMC 12.2K | 1:1        | 22.50                          | 21.35                    | -0.15      | 0.162                             | 1.30           | 0.211                             | #19           |
| Front Side                                                          | 9400/1880                      | RMC 12.2K | 1:1        | 22.50                          | 21.35                    | 0.06       | 0.115                             | 1.30           | 0.150                             | N/A           |
| Left Edge                                                           | 9400/1880                      | RMC 12.2K | 1:1        | 22.50                          | 21.35                    | -0.26      | 0.077                             | 1.30           | 0.100                             | N/A           |
| Right Edge                                                          | 9400/1880                      | RMC 12.2K | 1:1        | 22.50                          | 21.35                    | 0.16       | 0.071                             | 1.30           | 0.093                             | N/A           |
| Top Edge                                                            | 9400/1880                      | RMC 12.2K | 1:1        | 22.50                          | 21.35                    | 0.05       | 0.092                             | 1.30           | 0.120                             | N/A           |
| Bottom Edge                                                         | N/A                            | N/A       | N/A        | N/A                            | N/A                      | N/A        | N/A                               | N/A            | N/A                               | N/A           |

Note: 1.The value with green color is the maximum SAR Value of each test band.  
2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is optional for such test configuration(s).  
3.When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.  
4. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required.  
5.When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com

## SAR Values [WCDMA Band V]

| Test Position                                                      | Channel/<br>Frequency<br>(MHz) | Test Mode | Duty Cycle | Maximum Allowed Power (dBm) | Conducted Power (dBm) | ± 0.21dB   | Limit SAR <sub>1g</sub> 1.6 W/kg  |                |                                   |               |
|--------------------------------------------------------------------|--------------------------------|-----------|------------|-----------------------------|-----------------------|------------|-----------------------------------|----------------|-----------------------------------|---------------|
|                                                                    |                                |           |            |                             |                       | Drift (dB) | Measured SAR <sub>1g</sub> (W/kg) | Scaling Factor | Reported SAR <sub>1g</sub> (W/kg) | Graph Results |
| Test Position of Head                                              |                                |           |            |                             |                       |            |                                   |                |                                   |               |
| Left/Cheek                                                         | 4183/836.6                     | RMC 12.2K | 1:1        | 23.50                       | 22.91                 | 0.16       | 0.264                             | 1.15           | 0.302                             | #4            |
| Left/Tilt                                                          | 4183/836.6                     | RMC 12.2K | 1:1        | 23.50                       | 22.91                 | 0.09       | 0.212                             | 1.15           | 0.243                             | N/A           |
| Right/Cheek                                                        | 4183/836.6                     | RMC 12.2K | 1:1        | 23.50                       | 22.91                 | -0.27      | 0.252                             | 1.15           | 0.288                             | N/A           |
| Right/Tilt                                                         | 4183/836.6                     | RMC 12.2K | 1:1        | 23.50                       | 22.91                 | -0.08      | 0.193                             | 1.15           | 0.221                             | N/A           |
| Test position of PPT Head Face up(Distance25mm)                    |                                |           |            |                             |                       |            |                                   |                |                                   |               |
| Face up                                                            | 4183/836.6                     | RMC 12.2K | 1:1        | 23.50                       | 22.91                 | -0.01      | 0.054                             | 1.15           | 0.063                             | N/A           |
| Test position of PPT Body-worn with clip(Distance0mm)              |                                |           |            |                             |                       |            |                                   |                |                                   |               |
| Rear Side                                                          | 4183/836.6                     | RMC 12.2K | 1:1        | 23.50                       | 22.91                 | -0.03      | 0.150                             | 1.15           | 0.173                             | N/A           |
| Test position of Body-worn accessory &Hotspot Mode (Distance 10mm) |                                |           |            |                             |                       |            |                                   |                |                                   |               |
| Rear Side                                                          | 4183/836.6                     | RMC 12.2K | 1:1        | 23.50                       | 22.91                 | -0.04      | 0.177                             | 1.15           | 0.203                             | #20           |
| Front Side                                                         | 4183/836.6                     | RMC 12.2K | 1:1        | 23.50                       | 22.91                 | -0.02      | 0.121                             | 1.15           | 0.139                             | N/A           |
| Left Edge                                                          | 4183/836.6                     | RMC 12.2K | 1:1        | 23.50                       | 22.91                 | 0.03       | 0.084                             | 1.15           | 0.096                             | N/A           |
| Right Edge                                                         | 4183/836.6                     | RMC 12.2K | 1:1        | 23.50                       | 22.91                 | -0.05      | 0.095                             | 1.15           | 0.109                             | N/A           |
| Top Edge                                                           | 4183/836.6                     | RMC 12.2K | 1:1        | 23.50                       | 22.91                 | -0.02      | 0.092                             | 1.15           | 0.105                             | N/A           |
| Bottom Edge                                                        | N/A                            | N/A       | N/A        | N/A                         | N/A                   | N/A        | N/A                               | N/A            | N/A                               | N/A           |

Note: 1.The value with green color is the maximum SAR Value of each test band.  
2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is optional for such test configuration(s).  
3.When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.  
4. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was ≤ 1.2 W/kg, no additional SAR evaluations using a headset cable were required.  
5.When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com

## SAR Values [LTE Band 2]

| Test Position                                                      | Channel/<br>Frequency<br>(MHz) | Test Mode | Duty Cycle | Maximum Allowed Power (dBm) | Conducted Power (dBm) | Drift ± 0.21dB | Limit SAR <sub>1g</sub> 1.6 W/kg  |                |                                   |               |
|--------------------------------------------------------------------|--------------------------------|-----------|------------|-----------------------------|-----------------------|----------------|-----------------------------------|----------------|-----------------------------------|---------------|
|                                                                    |                                |           |            |                             |                       | Drift (dB)     | Measured SAR <sub>1g</sub> (W/kg) | Scaling Factor | Reported SAR <sub>1g</sub> (W/kg) | Graph Results |
| Test Position of Head                                              |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Left/Cheek                                                         | 1880.0                         | 1RB       | 1:1        | 23.50                       | 22.74                 | -0.04          | 0.197                             | 1.18           | 0.233                             | #5            |
| Left/Tilt                                                          | 1880.0                         | 1RB       | 1:1        | 23.50                       | 22.74                 | 0.04           | 0.151                             | 1.18           | 0.178                             | N/A           |
| Right/Cheek                                                        | 1880.0                         | 1RB       | 1:1        | 23.50                       | 22.74                 | 0.02           | 0.186                             | 1.18           | 0.220                             | N/A           |
| Right/Tilt                                                         | 1880.0                         | 1RB       | 1:1        | 23.50                       | 22.74                 | -0.02          | 0.148                             | 1.18           | 0.175                             | N/A           |
| Left/Cheek                                                         | 1880.0                         | 50%RB     | 1:1        | 22.50                       | 22.09                 | 0.17           | 0.126                             | 1.10           | 0.138                             | N/A           |
| Left/Tilt                                                          | 1880.0                         | 50%RB     | 1:1        | 22.50                       | 22.09                 | -0.09          | 0.110                             | 1.10           | 0.121                             | N/A           |
| Right/Cheek                                                        | 1880.0                         | 50%RB     | 1:1        | 22.50                       | 22.09                 | -0.08          | 0.116                             | 1.10           | 0.128                             | N/A           |
| Right/Tilt                                                         | 1880.0                         | 50%RB     | 1:1        | 22.50                       | 22.09                 | 0.06           | 0.068                             | 1.10           | 0.074                             | N/A           |
| Test position of PPT Head Face up(Distance25mm)                    |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Face up                                                            | 1880.0                         | 1RB       | 1:1        | 23.50                       | 22.74                 | -0.04          | 0.051                             | 1.18           | 0.060                             | N/A           |
| Face up                                                            | 1880.0                         | 50%RB     | 1:1        | 22.50                       | 22.09                 | -0.01          | 0.032                             | 1.10           | 0.034                             | N/A           |
| Test position of PPT Body-worn with clip(Distance0mm)              |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Rear Side                                                          | 1880.0                         | 1RB       | 1:1        | 23.50                       | 22.74                 | 0.08           | 0.146                             | 1.18           | 0.173                             | N/A           |
| Rear Side                                                          | 1880.0                         | 50%RB     | 1:1        | 22.50                       | 22.09                 | 0.06           | 0.105                             | 1.10           | 0.115                             | N/A           |
| Test position of Body-worn accessory& Hotspot Mode (Distance 10mm) |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Rear Side                                                          | 1880.0                         | 1RB       | 1:1        | 23.50                       | 22.74                 | 0.11           | 0.172                             | 1.18           | 0.203                             | #21           |
| Front Side                                                         | 1880.0                         | 1RB       | 1:1        | 23.50                       | 22.74                 | -0.05          | 0.114                             | 1.18           | 0.134                             | N/A           |
| Left Edge                                                          | 1880.0                         | 1RB       | 1:1        | 23.50                       | 22.74                 | -0.06          | 0.076                             | 1.18           | 0.090                             | N/A           |
| Right Edge                                                         | 1880.0                         | 1RB       | 1:1        | 23.50                       | 22.74                 | 0.04           | 0.055                             | 1.18           | 0.065                             | N/A           |
| Top Edge                                                           | 1880.0                         | 1RB       | 1:1        | 23.50                       | 22.74                 | 0.15           | 0.098                             | 1.18           | 0.116                             | N/A           |
| Bottom Edge                                                        | N/A                            | N/A       | N/A        | N/A                         | N/A                   | N/A            | N/A                               | N/A            | N/A                               | N/A           |
| Rear Side                                                          | 1880.0                         | 50%RB     | 1:1        | 22.50                       | 22.09                 | 0.08           | 0.123                             | 1.10           | 0.135                             | N/A           |
| Front Side                                                         | 1880.0                         | 50%RB     | 1:1        | 22.50                       | 22.09                 | -0.01          | 0.070                             | 1.10           | 0.076                             | N/A           |
| Left Edge                                                          | 1880.0                         | 50%RB     | 1:1        | 22.50                       | 22.09                 | -0.02          | 0.067                             | 1.10           | 0.074                             | N/A           |
| Right Edge                                                         | 1880.0                         | 50%RB     | 1:1        | 22.50                       | 22.09                 | -0.02          | 0.041                             | 1.10           | 0.045                             | N/A           |
| Top Edge                                                           | 1880.0                         | 50%RB     | 1:1        | 22.50                       | 22.09                 | 0.09           | 0.056                             | 1.10           | 0.062                             | N/A           |
| Bottom Edge                                                        | N/A                            | N/A       | N/A        | N/A                         | N/A                   | N/A            | N/A                               | N/A            | N/A                               | N/A           |

Note: 1. The value with green color is the maximum SAR Value of each test band.

- Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is optional for such test configuration(s).
- When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.
- Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was  $\leq 1.2$  W/kg, no additional SAR evaluations using a headset cable were required.
- When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq 1/4$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com

## SAR Values [LTE Band 4]

| Test Position                                         | Channel/<br>Frequency<br>(MHz) | Test Mode | Duty Cycle | Maximum Allowed Power (dBm) | Conducted Power (dBm) | Drift $\pm 0.21$ dB | Limit SAR <sub>1g</sub> 1.6 W/kg  |                |                                   |               |
|-------------------------------------------------------|--------------------------------|-----------|------------|-----------------------------|-----------------------|---------------------|-----------------------------------|----------------|-----------------------------------|---------------|
|                                                       |                                |           |            |                             |                       | Drift (dB)          | Measured SAR <sub>1g</sub> (W/kg) | Scaling Factor | Reported SAR <sub>1g</sub> (W/kg) | Graph Results |
| Test Position of Head                                 |                                |           |            |                             |                       |                     |                                   |                |                                   |               |
| Left/Cheek                                            | 1732.5                         | 1RB       | 1:1        | 23.50                       | 22.65                 | 0.10                | 0.221                             | 1.22           | 0.269                             | #6            |
| Left/Tilt                                             | 1732.5                         | 1RB       | 1:1        | 23.50                       | 22.65                 | 0.00                | 0.165                             | 1.22           | 0.201                             | N/A           |
| Right/Cheek                                           | 1732.5                         | 1RB       | 1:1        | 23.50                       | 22.65                 | -0.05               | 0.194                             | 1.22           | 0.236                             | N/A           |
| Right/Tilt                                            | 1732.5                         | 1RB       | 1:1        | 23.50                       | 22.65                 | 0.03                | 0.112                             | 1.22           | 0.137                             | N/A           |
| Left/Cheek                                            | 1732.5                         | 50%RB     | 1:1        | 22.50                       | 21.97                 | 0.17                | 0.126                             | 1.13           | 0.142                             | N/A           |
| Left/Tilt                                             | 1732.5                         | 50%RB     | 1:1        | 22.50                       | 21.97                 | -0.19               | 0.096                             | 1.13           | 0.109                             | N/A           |
| Right/Cheek                                           | 1732.5                         | 50%RB     | 1:1        | 22.50                       | 21.97                 | -0.08               | 0.119                             | 1.13           | 0.134                             | N/A           |
| Right/Tilt                                            | 1732.5                         | 50%RB     | 1:1        | 22.50                       | 21.97                 | 0.10                | 0.095                             | 1.13           | 0.107                             | N/A           |
| Test position of PPT Head Face up(Distance25mm)       |                                |           |            |                             |                       |                     |                                   |                |                                   |               |
| Face up                                               | 1732.5                         | 1RB       | 1:1        | 23.50                       | 22.65                 | 0.03                | 0.056                             | 1.22           | 0.068                             | N/A           |
| Face up                                               | 1732.5                         | 50%RB     | 1:1        | 22.50                       | 21.97                 | -0.01               | 0.032                             | 1.13           | 0.036                             | N/A           |
| Test position of PPT Body-worn with clip(Distance0mm) |                                |           |            |                             |                       |                     |                                   |                |                                   |               |
| Rear Side                                             | 1732.5                         | 1RB       | 1:1        | 23.50                       | 22.65                 | 0.12                | 0.229                             | 1.22           | 0.278                             | N/A           |
| Rear Side                                             | 1732.5                         | 50%RB     | 1:1        | 22.50                       | 21.97                 | 0.09                | 0.163                             | 1.13           | 0.184                             | N/A           |
| Test position of Hotspot Mode (Distance 10mm)         |                                |           |            |                             |                       |                     |                                   |                |                                   |               |
| Rear Side                                             | 1732.5                         | 1RB       | 1:1        | 23.50                       | 22.65                 | 0.17                | 0.269                             | 1.22           | 0.327                             | #22           |
| Front Side                                            | 1732.5                         | 1RB       | 1:1        | 23.50                       | 22.65                 | 0.04                | 0.125                             | 1.22           | 0.152                             | N/A           |
| Left Edge                                             | 1732.5                         | 1RB       | 1:1        | 23.50                       | 22.65                 | -0.13               | 0.093                             | 1.22           | 0.113                             | N/A           |
| Right Edge                                            | 1732.5                         | 1RB       | 1:1        | 23.50                       | 22.65                 | 0.02                | 0.062                             | 1.22           | 0.076                             | N/A           |
| Top Edge                                              | 1732.5                         | 1RB       | 1:1        | 23.50                       | 22.65                 | 0.06                | 0.096                             | 1.22           | 0.117                             | N/A           |
| Bottom Edge                                           | N/A                            | N/A       | N/A        | N/A                         | N/A                   | N/A                 | N/A                               | N/A            | N/A                               | N/A           |
| Rear Side                                             | 1732.5                         | 50%RB     | 1:1        | 22.50                       | 21.97                 | 0.13                | 0.192                             | 1.13           | 0.217                             | N/A           |
| Front Side                                            | 1732.5                         | 50%RB     | 1:1        | 22.50                       | 21.97                 | -0.02               | 0.070                             | 1.13           | 0.080                             | N/A           |
| Left Edge                                             | 1732.5                         | 50%RB     | 1:1        | 22.50                       | 21.97                 | -0.09               | 0.105                             | 1.13           | 0.118                             | N/A           |
| Right Edge                                            | 1732.5                         | 50%RB     | 1:1        | 22.50                       | 21.97                 | 0.02                | 0.083                             | 1.13           | 0.094                             | N/A           |
| Top Edge                                              | 1732.5                         | 50%RB     | 1:1        | 22.50                       | 21.97                 | 0.03                | 0.069                             | 1.13           | 0.078                             | N/A           |
| Bottom Edge                                           | N/A                            | N/A       | N/A        | N/A                         | N/A                   | N/A                 | N/A                               | N/A            | N/A                               | N/A           |

Note: 1. The value with green color is the maximum SAR Value of each test band.

2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is optional for such test configuration(s).

3. When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.

4. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was  $\leq 1.2$  W/kg, no additional SAR evaluations using a headset cable were required.

5. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## SAR Values [LTE Band 5]

| Test Position                                                      | Channel/<br>Frequency<br>(MHz) | Test Mode | Duty Cycle | Maximum Allowed Power<br>(dBm) | Conducted Power<br>(dBm) | Drift<br>± 0.21dB | Limit SAR <sub>1g</sub> 1.6 W/kg     |                |                                      |               |
|--------------------------------------------------------------------|--------------------------------|-----------|------------|--------------------------------|--------------------------|-------------------|--------------------------------------|----------------|--------------------------------------|---------------|
|                                                                    |                                |           |            |                                |                          | Drift<br>(dB)     | Measured SAR <sub>1g</sub><br>(W/kg) | Scaling Factor | Reported SAR <sub>1g</sub><br>(W/kg) | Graph Results |
| Test Position of Head                                              |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Left/Cheek                                                         | 836.5                          | 1RB       | 1:1        | 23.50                          | 22.76                    | 0.07              | 0.445                                | 1.19           | 0.528                                | #7            |
| Left/Tilt                                                          | 836.5                          | 1RB       | 1:1        | 23.50                          | 22.76                    | -0.08             | 0.340                                | 1.19           | 0.404                                | N/A           |
| Right/Cheek                                                        | 836.5                          | 1RB       | 1:1        | 23.50                          | 22.76                    | -0.03             | 0.420                                | 1.19           | 0.497                                | N/A           |
| Right/Tilt                                                         | 836.5                          | 1RB       | 1:1        | 23.50                          | 22.76                    | 0.04              | 0.334                                | 1.19           | 0.397                                | N/A           |
| Left/Cheek                                                         | 836.5                          | 50%RB     | 1:1        | 22.50                          | 21.61                    | 0.06              | 0.370                                | 1.23           | 0.454                                | N/A           |
| Left/Tilt                                                          | 836.5                          | 50%RB     | 1:1        | 22.50                          | 21.61                    | -0.03             | 0.324                                | 1.23           | 0.398                                | N/A           |
| Right/Cheek                                                        | 836.5                          | 50%RB     | 1:1        | 22.50                          | 21.61                    | -0.03             | 0.342                                | 1.23           | 0.420                                | N/A           |
| Right/Tilt                                                         | 836.5                          | 50%RB     | 1:1        | 22.50                          | 21.61                    | 0.02              | 0.198                                | 1.23           | 0.243                                | N/A           |
| Test position of PPT Head Face up(Distance25mm)                    |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Face up                                                            | 836.5                          | 1RB       | 1:1        | 23.50                          | 22.76                    | -0.01             | 0.109                                | 1.19           | 0.130                                | N/A           |
| Face up                                                            | 836.5                          | 50%RB     | 1:1        | 22.50                          | 21.61                    | 0.00              | 0.067                                | 1.23           | 0.082                                | N/A           |
| Test position of PPT Body-worn with clip(Distance0mm)              |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Rear Side                                                          | 836.5                          | 1RB       | 1:1        | 23.50                          | 22.76                    | 0.02              | 0.313                                | 1.19           | 0.371                                | N/A           |
| Rear Side                                                          | 836.5                          | 50%RB     | 1:1        | 22.50                          | 21.61                    | 0.01              | 0.224                                | 1.23           | 0.275                                | N/A           |
| Test position of Body-worn accessory& Hotspot Mode (Distance 10mm) |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Rear Side                                                          | 836.5                          | 1RB       | 1:1        | 23.50                          | 22.76                    | 0.03              | 0.368                                | 1.19           | 0.436                                | #23           |
| Front Side                                                         | 836.5                          | 1RB       | 1:1        | 23.50                          | 22.76                    | -0.01             | 0.243                                | 1.19           | 0.288                                | N/A           |
| Left Edge                                                          | 836.5                          | 1RB       | 1:1        | 23.50                          | 22.76                    | -0.02             | 0.162                                | 1.19           | 0.192                                | N/A           |
| Right Edge                                                         | 836.5                          | 1RB       | 1:1        | 23.50                          | 22.76                    | 0.01              | 0.117                                | 1.19           | 0.139                                | N/A           |
| Top Edge                                                           | 836.5                          | 1RB       | 1:1        | 23.50                          | 22.76                    | 0.04              | 0.210                                | 1.19           | 0.249                                | N/A           |
| Bottom Edge                                                        | N/A                            | N/A       | N/A        | N/A                            | N/A                      | N/A               | N/A                                  | N/A            | N/A                                  | N/A           |
| Rear Side                                                          | 836.5                          | 50%RB     | 1:1        | 22.50                          | 21.61                    | 0.02              | 0.263                                | 1.23           | 0.323                                | N/A           |
| Front Side                                                         | 836.5                          | 50%RB     | 1:1        | 22.50                          | 21.61                    | 0.00              | 0.149                                | 1.23           | 0.183                                | N/A           |
| Left Edge                                                          | 836.5                          | 50%RB     | 1:1        | 22.50                          | 21.61                    | -0.01             | 0.143                                | 1.23           | 0.176                                | N/A           |
| Right Edge                                                         | 836.5                          | 50%RB     | 1:1        | 22.50                          | 21.61                    | -0.01             | 0.087                                | 1.23           | 0.107                                | N/A           |
| Top Edge                                                           | 836.5                          | 50%RB     | 1:1        | 22.50                          | 21.61                    | 0.02              | 0.120                                | 1.23           | 0.148                                | N/A           |
| Bottom Edge                                                        | N/A                            | N/A       | N/A        | N/A                            | N/A                      | N/A               | N/A                                  | N/A            | N/A                                  | N/A           |

Note: 1. The value with green color is the maximum SAR Value of each test band.

2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is optional for such test configuration(s).

3. When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.

4. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was  $\leq 1.2$  W/kg, no additional SAR evaluations using a headset cable were required.

5. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq 1/4$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## SAR Values [LTE Band 7]

| Test Position                                         | Channel/<br>Frequency<br>(MHz) | Test Mode | Duty Cycle | Maximum Allowed Power (dBm) | Conducted Power (dBm) | Drift ± 0.21dB | Limit SAR <sub>1g</sub> 1.6 W/kg  |                |                                   |               |
|-------------------------------------------------------|--------------------------------|-----------|------------|-----------------------------|-----------------------|----------------|-----------------------------------|----------------|-----------------------------------|---------------|
|                                                       |                                |           |            |                             |                       | Drift (dB)     | Measured SAR <sub>1g</sub> (W/kg) | Scaling Factor | Reported SAR <sub>1g</sub> (W/kg) | Graph Results |
| Test Position of Head                                 |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Left/Cheek                                            | 2535                           | 1RB       | 1:1        | 23.00                       | 22.61                 | 0.12           | 0.168                             | 1.09           | 0.184                             | #8            |
| Left/Tilt                                             | 2535                           | 1RB       | 1:1        | 23.00                       | 22.61                 | 0.01           | 0.130                             | 1.09           | 0.143                             | N/A           |
| Right/Cheek                                           | 2535                           | 1RB       | 1:1        | 23.00                       | 22.61                 | -0.05          | 0.152                             | 1.09           | 0.166                             | N/A           |
| Right/Tilt                                            | 2535                           | 1RB       | 1:1        | 23.00                       | 22.61                 | 0.04           | 0.114                             | 1.09           | 0.125                             | N/A           |
| Left/Cheek                                            | 2535                           | 50%RB     | 1:1        | 22.00                       | 21.44                 | 0.17           | 0.126                             | 1.14           | 0.143                             | N/A           |
| Left/Tilt                                             | 2535                           | 50%RB     | 1:1        | 22.00                       | 21.44                 | -0.05          | 0.110                             | 1.14           | 0.126                             | N/A           |
| Right/Cheek                                           | 2535                           | 50%RB     | 1:1        | 22.00                       | 21.44                 | 0.04           | 0.116                             | 1.14           | 0.132                             | N/A           |
| Right/Tilt                                            | 2535                           | 50%RB     | 1:1        | 22.00                       | 21.44                 | -0.08          | 0.093                             | 1.14           | 0.106                             | N/A           |
| Test position of PPT Head Face up(Distance25mm)       |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Face up                                               | 2535                           | 1RB       | 1:1        | 23.00                       | 22.61                 | 0.02           | 0.070                             | 1.09           | 0.077                             | N/A           |
| Face up                                               | 2535                           | 50%RB     | 1:1        | 22.00                       | 21.44                 | 0.01           | 0.050                             | 1.14           | 0.056                             | N/A           |
| Test position of PPT Body-worn with clip(Distance0mm) |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Rear Side                                             | 2535                           | 1RB       | 1:1        | 23.00                       | 22.61                 | -0.08          | 0.215                             | 1.09           | 0.235                             | N/A           |
| Rear Side                                             | 2535                           | 50%RB     | 1:1        | 22.00                       | 21.44                 | -0.06          | 0.154                             | 1.14           | 0.175                             | N/A           |
| Test position of Hotspot Mode (Distance 10mm)         |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Rear Side                                             | 2535                           | 1RB       | 1:1        | 23.00                       | 22.61                 | -0.12          | 0.253                             | 1.09           | 0.277                             | #24           |
| Front Side                                            | 2535                           | 1RB       | 1:1        | 23.00                       | 22.61                 | 0.03           | 0.156                             | 1.09           | 0.170                             | N/A           |
| Left Edge                                             | 2535                           | 1RB       | 1:1        | 23.00                       | 22.61                 | 0.04           | 0.120                             | 1.09           | 0.131                             | N/A           |
| Right Edge                                            | 2535                           | 1RB       | 1:1        | 23.00                       | 22.61                 | -0.03          | 0.106                             | 1.09           | 0.116                             | N/A           |
| Top Edge                                              | 2535                           | 1RB       | 1:1        | 23.00                       | 22.61                 | -0.03          | 0.131                             | 1.09           | 0.143                             | N/A           |
| Bottom Edge                                           | N/A                            | N/A       | N/A        | N/A                         | N/A                   | N/A            | N/A                               | N/A            | N/A                               | N/A           |
| Rear Side                                             | 2535                           | 50%RB     | 1:1        | 22.00                       | 21.44                 | -0.09          | 0.181                             | 1.14           | 0.206                             | N/A           |
| Front Side                                            | 2535                           | 50%RB     | 1:1        | 22.00                       | 21.44                 | 0.02           | 0.110                             | 1.14           | 0.125                             | N/A           |
| Left Edge                                             | 2535                           | 50%RB     | 1:1        | 22.00                       | 21.44                 | 0.02           | 0.098                             | 1.14           | 0.112                             | N/A           |
| Right Edge                                            | 2535                           | 50%RB     | 1:1        | 22.00                       | 21.44                 | -0.03          | 0.042                             | 1.14           | 0.048                             | N/A           |
| Top Edge                                              | 2535                           | 50%RB     | 1:1        | 22.00                       | 21.44                 | -0.13          | 0.103                             | 1.14           | 0.117                             | N/A           |
| Bottom Edge                                           | N/A                            | N/A       | N/A        | N/A                         | N/A                   | N/A            | N/A                               | N/A            | N/A                               | N/A           |

Note: 1. The value with green color is the maximum SAR Value of each test band.

2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is optional for such test configuration(s).

3. When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.

4. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was  $\leq 1.2$  W/kg, no additional SAR evaluations using a headset cable were required.

5. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## SAR Values [LTE Band 12]

| Test Position                                         | Channel/<br>Frequency<br>(MHz) | Test Mode | Duty Cycle | Maximum Allowed Power (dBm) | Conducted Power (dBm) | Drift ± 0.21dB | Limit SAR <sub>1g</sub> 1.6 W/kg  |                |                                   |               |
|-------------------------------------------------------|--------------------------------|-----------|------------|-----------------------------|-----------------------|----------------|-----------------------------------|----------------|-----------------------------------|---------------|
|                                                       |                                |           |            |                             |                       | Drift (dB)     | Measured SAR <sub>1g</sub> (W/kg) | Scaling Factor | Reported SAR <sub>1g</sub> (W/kg) | Graph Results |
| Test Position of Head                                 |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Left/Cheek                                            | 707.5                          | 1RB       | 1:1        | 23.50                       | 22.76                 | 0.16           | 0.298                             | 1.19           | 0.353                             | #9            |
| Left/Tilt                                             | 707.5                          | 1RB       | 1:1        | 23.50                       | 22.76                 | 0.00           | 0.261                             | 1.19           | 0.310                             | N/A           |
| Right/Cheek                                           | 707.5                          | 1RB       | 1:1        | 23.50                       | 22.76                 | -0.06          | 0.275                             | 1.19           | 0.327                             | N/A           |
| Right/Tilt                                            | 707.5                          | 1RB       | 1:1        | 23.50                       | 22.76                 | 0.04           | 0.187                             | 1.19           | 0.222                             | N/A           |
| Left/Cheek                                            | 707.5                          | 50%RB     | 1:1        | 22.50                       | 21.81                 | 0.17           | 0.126                             | 1.17           | 0.148                             | N/A           |
| Left/Tilt                                             | 707.5                          | 50%RB     | 1:1        | 22.50                       | 21.81                 | -0.02          | 0.093                             | 1.17           | 0.109                             | N/A           |
| Right/Cheek                                           | 707.5                          | 50%RB     | 1:1        | 22.50                       | 21.81                 | 0.07           | 0.106                             | 1.17           | 0.124                             | N/A           |
| Right/Tilt                                            | 707.5                          | 50%RB     | 1:1        | 22.50                       | 21.81                 | 0.13           | 0.093                             | 1.17           | 0.110                             | N/A           |
| Test position of PPT Head Face up(Distance25mm)       |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Face up                                               | 707.5                          | 1RB       | 1:1        | 23.50                       | 22.76                 | -0.01          | 0.031                             | 1.19           | 0.036                             | N/A           |
| Face up                                               | 707.5                          | 50%RB     | 1:1        | 22.50                       | 21.81                 | 0.01           | 0.017                             | 1.17           | 0.020                             | N/A           |
| Test position of PPT Body-worn with clip(Distance0mm) |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Rear Side                                             | 707.5                          | 1RB       | 1:1        | 23.50                       | 22.76                 | -0.07          | 0.128                             | 1.19           | 0.146                             | N/A           |
| Rear Side                                             | 707.5                          | 50%RB     | 1:1        | 22.50                       | 21.81                 | -0.06          | 0.088                             | 1.17           | 0.104                             | N/A           |
| Test position of Hotspot Mode (Distance 10mm)         |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Rear Side                                             | 707.5                          | 1RB       | 1:1        | 23.50                       | 22.76                 | -0.10          | 0.151                             | 1.19           | 0.172                             | #25           |
| Front Side                                            | 707.5                          | 1RB       | 1:1        | 23.50                       | 22.76                 | -0.02          | 0.068                             | 1.19           | 0.080                             | N/A           |
| Left Edge                                             | 707.5                          | N/A       | N/A        | 23.50                       | 22.76                 | 0.08           | 0.050                             | 1.19           | 0.059                             | N/A           |
| Right Edge                                            | 707.5                          | 1RB       | 1:1        | 23.50                       | 22.76                 | -0.01          | 0.034                             | 1.19           | 0.040                             | N/A           |
| Top Edge                                              | 707.5                          | N/A       | N/A        | 23.50                       | 22.76                 | -0.04          | 0.052                             | 1.19           | 0.061                             | N/A           |
| Bottom Edge                                           | N/A                            | N/A       | N/A        | N/A                         | N/A                   | N/A            | N/A                               | N/A            | N/A                               | N/A           |
| Rear Side                                             | 707.5                          | 50%RB     | 1:1        | 22.50                       | 21.81                 | -0.08          | 0.104                             | 1.17           | 0.122                             | N/A           |
| Front Side                                            | 707.5                          | 50%RB     | 1:1        | 22.50                       | 21.81                 | 0.01           | 0.038                             | 1.17           | 0.044                             | N/A           |
| Left Edge                                             | 707.5                          | N/A       | N/A        | 22.50                       | 21.81                 | 0.05           | 0.056                             | 1.17           | 0.066                             | N/A           |
| Right Edge                                            | 707.5                          | 50%RB     | 1:1        | 22.50                       | 21.81                 | -0.01          | 0.045                             | 1.17           | 0.052                             | N/A           |
| Top Edge                                              | 707.5                          | N/A       | N/A        | 22.50                       | 21.81                 | -0.02          | 0.037                             | 1.17           | 0.043                             | N/A           |
| Bottom Edge                                           | N/A                            | N/A       | N/A        | N/A                         | N/A                   | N/A            | N/A                               | N/A            | N/A                               | N/A           |

Note: 1. The value with green color is the maximum SAR Value of each test band.

2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is optional for such test configuration(s).

3. When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.

4. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was  $\leq 1.2$  W/kg, no additional SAR evaluations using a headset cable were required.

5. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## SAR Values [LTE Band 17]

| Test Position                                         | Channel/<br>Frequency<br>(MHz) | Test Mode | Duty Cycle | Maximum Allowed Power (dBm) | Conducted Power (dBm) | Drift ± 0.21dB | Limit SAR <sub>1g</sub> 1.6 W/kg  |                |                                   |               |
|-------------------------------------------------------|--------------------------------|-----------|------------|-----------------------------|-----------------------|----------------|-----------------------------------|----------------|-----------------------------------|---------------|
|                                                       |                                |           |            |                             |                       | Drift (dB)     | Measured SAR <sub>1g</sub> (W/kg) | Scaling Factor | Reported SAR <sub>1g</sub> (W/kg) | Graph Results |
| Test Position of Head                                 |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Left/Cheek                                            | 710                            | 1RB       | 1:1        | 23.00                       | 22.60                 | -0.10          | 0.242                             | 1.04           | 0.252                             | #10           |
| Left/Tilt                                             | 710                            | 1RB       | 1:1        | 23.00                       | 22.60                 | -0.03          | 0.225                             | 1.04           | 0.234                             | N/A           |
| Right/Cheek                                           | 710                            | 1RB       | 1:1        | 23.00                       | 22.60                 | 0.05           | 0.206                             | 1.04           | 0.214                             | N/A           |
| Right/Tilt                                            | 710                            | 1RB       | 1:1        | 23.00                       | 22.60                 | 0.04           | 0.200                             | 1.04           | 0.208                             | N/A           |
| Left/Cheek                                            | 710                            | 50%RB     | 1:1        | 22.50                       | 21.65                 | -0.03          | 0.107                             | 1.07           | 0.115                             | N/A           |
| Left/Tilt                                             | 710                            | 50%RB     | 1:1        | 22.50                       | 21.65                 | 0.05           | 0.101                             | 1.07           | 0.108                             | N/A           |
| Right/Cheek                                           | 710                            | 50%RB     | 1:1        | 22.50                       | 21.65                 | 0.02           | 0.106                             | 1.07           | 0.113                             | N/A           |
| Right/Tilt                                            | 710                            | 50%RB     | 1:1        | 22.50                       | 21.65                 | -0.10          | 0.097                             | 1.07           | 0.104                             | N/A           |
| Test position of PPT Head Face up(Distance25mm)       |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Face up                                               | 710                            | 1RB       | 1:1        | 23.00                       | 22.60                 | 0.02           | 0.039                             | 1.04           | 0.041                             | N/A           |
| Face up                                               | 710                            | 50%RB     | 1:1        | 22.50                       | 21.65                 | -0.01          | 0.034                             | 1.07           | 0.036                             | N/A           |
| Test position of PPT Body-worn with clip(Distance0mm) |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Rear Side                                             | 710                            | 1RB       | 1:1        | 23.00                       | 22.60                 | 0.01           | 0.123                             | 1.04           | 0.128                             | N/A           |
| Rear Side                                             | 710                            | 50%RB     | 1:1        | 22.50                       | 21.65                 | -0.04          | 0.067                             | 1.07           | 0.072                             | N/A           |
| Test position of Hotspot Mode (Distance 10mm)         |                                |           |            |                             |                       |                |                                   |                |                                   |               |
| Rear Side                                             | 710                            | 1RB       | 1:1        | 23.00                       | 22.60                 | 0.01           | 0.187                             | 1.04           | 0.194                             | #26           |
| Front Side                                            | 710                            | 1RB       | 1:1        | 23.00                       | 22.60                 | 0.03           | 0.175                             | 1.04           | 0.182                             | N/A           |
| Left Edge                                             | 710                            | 1RB       | 1:1        | 23.00                       | 22.60                 | -0.04          | 0.169                             | 1.04           | 0.176                             | N/A           |
| Right Edge                                            | 710                            | 1RB       | 1:1        | 23.00                       | 22.60                 | 0.05           | 0.172                             | 1.04           | 0.179                             | N/A           |
| Top Edge                                              | 710                            | 1RB       | 1:1        | 23.00                       | 22.60                 | -0.02          | 0.169                             | 1.04           | 0.176                             | N/A           |
| Bottom Edge                                           | N/A                            | N/A       | N/A        | N/A                         | N/A                   | N/A            | N/A                               | N/A            | N/A                               | N/A           |
| Rear Side                                             | 710                            | 50%RB     | 1:1        | 22.50                       | 21.65                 | -0.04          | 0.098                             | 1.07           | 0.105                             | N/A           |
| Front Side                                            | 710                            | 50%RB     | 1:1        | 22.50                       | 21.65                 | 0.02           | 0.095                             | 1.07           | 0.102                             | N/A           |
| Left Edge                                             | 710                            | 50%RB     | 1:1        | 22.50                       | 21.65                 | -0.03          | 0.920                             | 1.07           | 0.984                             | N/A           |
| Right Edge                                            | 710                            | 50%RB     | 1:1        | 22.50                       | 21.65                 | 0.05           | 0.918                             | 1.07           | 0.982                             | N/A           |
| Top Edge                                              | 710                            | 50%RB     | 1:1        | 22.50                       | 21.65                 | 0.04           | 0.097                             | 1.07           | 0.104                             | N/A           |
| Bottom Edge                                           | N/A                            | N/A       | N/A        | N/A                         | N/A                   | N/A            | N/A                               | N/A            | N/A                               | N/A           |

Note: 1. The value with green color is the maximum SAR Value of each test band.

- Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is optional for such test configuration(s).
- When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.
- Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was  $\leq 1.2$  W/kg, no additional SAR evaluations using a headset cable were required.
- When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq 1/4$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com

## SAR Values [LTE Band 26]

| Test Position                                                      | Channel/<br>Frequency<br>(MHz) | Test Mode | Duty Cycle | Maximum Allowed Power<br>(dBm) | Conducted Power<br>(dBm) | Drift<br>± 0.21dB | Limit SAR <sub>1g</sub> 1.6 W/kg     |                |                                      |               |
|--------------------------------------------------------------------|--------------------------------|-----------|------------|--------------------------------|--------------------------|-------------------|--------------------------------------|----------------|--------------------------------------|---------------|
|                                                                    |                                |           |            |                                |                          | Drift<br>(dB)     | Measured SAR <sub>1g</sub><br>(W/kg) | Scaling Factor | Reported SAR <sub>1g</sub><br>(W/kg) | Graph Results |
| Test Position of Head                                              |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Left/Cheek                                                         | 831.5                          | 1RB       | 1:1        | 23.00                          | 21.82                    | 0.14              | 0.180                                | 1.19           | 0.213                                | #11           |
| Left/Tilt                                                          | 831.5                          | 1RB       | 1:1        | 23.00                          | 21.82                    | 0.00              | 0.134                                | 1.19           | 0.159                                | N/A           |
| Right/Cheek                                                        | 831.5                          | 1RB       | 1:1        | 23.00                          | 21.82                    | -0.07             | 0.158                                | 1.19           | 0.187                                | N/A           |
| Right/Tilt                                                         | 831.5                          | 1RB       | 1:1        | 23.00                          | 21.82                    | 0.04              | 0.092                                | 1.19           | 0.109                                | N/A           |
| Left/Cheek                                                         | 831.5                          | 50%RB     | 1:1        | 22.50                          | 20.91                    | 0.12              | 0.150                                | 1.17           | 0.175                                | N/A           |
| Left/Tilt                                                          | 831.5                          | 50%RB     | 1:1        | 22.50                          | 20.91                    | -0.13             | 0.114                                | 1.17           | 0.134                                | N/A           |
| Right/Cheek                                                        | 831.5                          | 50%RB     | 1:1        | 22.50                          | 20.91                    | -0.05             | 0.141                                | 1.17           | 0.165                                | N/A           |
| Right/Tilt                                                         | 831.5                          | 50%RB     | 1:1        | 22.50                          | 20.91                    | 0.07              | 0.112                                | 1.17           | 0.132                                | N/A           |
| Test position of PPT Head Face up(Distance25mm)                    |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Face up                                                            | 831.5                          | 1RB       | 1:1        | 23.00                          | 21.82                    | -0.04             | 0.036                                | 1.19           | 0.043                                | N/A           |
| Face up                                                            | 831.5                          | 50%RB     | 1:1        | 22.50                          | 20.91                    | 0.02              | 0.020                                | 1.17           | 0.024                                | N/A           |
| Test position of PPT Body-worn with clip(Distance0mm)              |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Rear Side                                                          | 831.5                          | 1RB       | 1:1        | 23.00                          | 21.82                    | 0.08              | 0.146                                | 1.19           | 0.173                                | N/A           |
| Rear Side                                                          | 831.5                          | 50%RB     | 1:1        | 22.50                          | 20.91                    | -0.04             | 0.105                                | 1.17           | 0.122                                | N/A           |
| Test position of Body-worn accessory& Hotspot Mode (Distance 10mm) |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Rear Side                                                          | 831.5                          | 1RB       | 1:1        | 23.00                          | 21.82                    | 0.11              | 0.172                                | 1.19           | 0.204                                | #27           |
| Front Side                                                         | 831.5                          | 1RB       | 1:1        | 23.00                          | 21.82                    | -0.05             | 0.080                                | 1.19           | 0.095                                | N/A           |
| Left Edge                                                          | 831.5                          | 1RB       | 1:1        | 23.00                          | 21.82                    | -0.06             | 0.059                                | 1.19           | 0.070                                | N/A           |
| Right Edge                                                         | 831.5                          | 1RB       | 1:1        | 23.00                          | 21.82                    | 0.04              | 0.040                                | 1.19           | 0.047                                | N/A           |
| Top Edge                                                           | 831.5                          | 1RB       | 1:1        | 23.00                          | 21.82                    | 0.15              | 0.061                                | 1.19           | 0.073                                | N/A           |
| Bottom Edge                                                        | N/A                            | N/A       | N/A        | N/A                            | N/A                      | N/A               | N/A                                  | N/A            | N/A                                  | N/A           |
| Rear Side                                                          | 831.5                          | 50%RB     | 1:1        | 22.50                          | 20.91                    | -0.06             | 0.123                                | 1.17           | 0.144                                | N/A           |
| Front Side                                                         | 831.5                          | 50%RB     | 1:1        | 22.50                          | 20.91                    | 0.03              | 0.045                                | 1.17           | 0.053                                | N/A           |
| Left Edge                                                          | 831.5                          | 50%RB     | 1:1        | 22.50                          | 20.91                    | 0.04              | 0.067                                | 1.17           | 0.078                                | N/A           |
| Right Edge                                                         | 831.5                          | 50%RB     | 1:1        | 22.50                          | 20.91                    | -0.02             | 0.053                                | 1.17           | 0.062                                | N/A           |
| Top Edge                                                           | 831.5                          | 50%RB     | 1:1        | 22.50                          | 20.91                    | -0.09             | 0.044                                | 1.17           | 0.051                                | N/A           |
| Bottom Edge                                                        | N/A                            | N/A       | N/A        | N/A                            | N/A                      | N/A               | N/A                                  | N/A            | N/A                                  | N/A           |

Note: 1. The value with green color is the maximum SAR Value of each test band.

2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is optional for such test configuration(s).

3. When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.

4. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was  $\leq 1.2$  W/kg, no additional SAR evaluations using a headset cable were required.

5. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq 1/4$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## SAR Values [LTE Band 38]

| Test Position                                         | Channel/<br>Frequency<br>(MHz) | Test Mode | Duty Cycle | Maximum Allowed Power<br>(dBm) | Conducted Power<br>(dBm) | Drift<br>± 0.21dB | Limit SAR <sub>1g</sub> 1.6 W/kg     |                |                                      |               |
|-------------------------------------------------------|--------------------------------|-----------|------------|--------------------------------|--------------------------|-------------------|--------------------------------------|----------------|--------------------------------------|---------------|
|                                                       |                                |           |            |                                |                          | Drift<br>(dB)     | Measured SAR <sub>1g</sub><br>(W/kg) | Scaling Factor | Reported SAR <sub>1g</sub><br>(W/kg) | Graph Results |
| Test Position of Head                                 |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Left/Cheek                                            | 2595                           | 1RB       | 1:1        | 23.00                          | 22.74                    | 0.17              | 0.085                                | 1.06           | 0.090                                | #12           |
| Left/Tilt                                             | 2595                           | 1RB       | 1:1        | 23.00                          | 22.74                    | 0.02              | 0.066                                | 1.06           | 0.070                                | N/A           |
| Right/Cheek                                           | 2595                           | 1RB       | 1:1        | 23.00                          | 22.74                    | -0.08             | 0.077                                | 1.06           | 0.082                                | N/A           |
| Right/Tilt                                            | 2595                           | 1RB       | 1:1        | 23.00                          | 22.74                    | 0.06              | 0.058                                | 1.06           | 0.061                                | N/A           |
| Left/Cheek                                            | 2595                           | 50%RB     | 1:1        | 22.00                          | 21.78                    | 0.14              | 0.071                                | 1.05           | 0.074                                | N/A           |
| Left/Tilt                                             | 2595                           | 50%RB     | 1:1        | 22.00                          | 21.78                    | -0.04             | 0.062                                | 1.05           | 0.065                                | N/A           |
| Right/Cheek                                           | 2595                           | 50%RB     | 1:1        | 22.00                          | 21.78                    | 0.03              | 0.065                                | 1.05           | 0.069                                | N/A           |
| Right/Tilt                                            | 2595                           | 50%RB     | 1:1        | 22.00                          | 21.78                    | -0.06             | 0.052                                | 1.05           | 0.055                                | N/A           |
| Test position of PPT Head Face up(Distance25mm)       |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Face up                                               | 2595                           | 1RB       | 1:1        | 23.00                          | 22.74                    | -0.02             | 0.032                                | 1.06           | 0.035                                | N/A           |
| Face up                                               | 2595                           | 50%RB     | 1:1        | 22.00                          | 21.78                    | -0.01             | 0.023                                | 1.05           | 0.024                                | N/A           |
| Test position of PPT Body-worn with clip(Distance0mm) |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Rear Side                                             | 2595                           | 1RB       | 1:1        | 23.00                          | 22.74                    | 0.09              | 0.099                                | 1.06           | 0.105                                | N/A           |
| Rear Side                                             | 2595                           | 50%RB     | 1:1        | 22.00                          | 21.78                    | 0.07              | 0.071                                | 1.05           | 0.075                                | N/A           |
| Test position of Hotspot Mode (Distance 10mm)         |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Rear Side                                             | 2595                           | 1RB       | 1:1        | 23.00                          | 22.74                    | 0.13              | 0.117                                | 1.06           | 0.124                                | #28           |
| Front Side                                            | 2595                           | 1RB       | 1:1        | 23.00                          | 22.74                    | -0.03             | 0.072                                | 1.06           | 0.077                                | N/A           |
| Left Edge                                             | 2595                           | 1RB       | 1:1        | 23.00                          | 22.74                    | -0.05             | 0.055                                | 1.06           | 0.059                                | N/A           |
| Right Edge                                            | 2595                           | 1RB       | 1:1        | 23.00                          | 22.74                    | 0.03              | 0.049                                | 1.06           | 0.052                                | N/A           |
| Top Edge                                              | 2595                           | 1RB       | 1:1        | 23.00                          | 22.74                    | 0.03              | 0.060                                | 1.06           | 0.064                                | N/A           |
| Bottom Edge                                           | N/A                            | N/A       | N/A        | N/A                            | N/A                      | N/A               | N/A                                  | N/A            | N/A                                  | N/A           |
| Rear Side                                             | 2595                           | 50%RB     | 1:1        | 22.00                          | 21.78                    | 0.10              | 0.084                                | 1.05           | 0.088                                | N/A           |
| Front Side                                            | 2595                           | 50%RB     | 1:1        | 22.00                          | 21.78                    | -0.02             | 0.051                                | 1.05           | 0.053                                | N/A           |
| Left Edge                                             | 2595                           | 50%RB     | 1:1        | 22.00                          | 21.78                    | -0.03             | 0.046                                | 1.05           | 0.048                                | N/A           |
| Right Edge                                            | 2595                           | 50%RB     | 1:1        | 22.00                          | 21.78                    | 0.03              | 0.019                                | 1.05           | 0.020                                | N/A           |
| Top Edge                                              | 2595                           | 50%RB     | N/A        | 22.00                          | 21.78                    | 0.14              | 0.048                                | 1.05           | 0.050                                | N/A           |
| Bottom Edge                                           | N/A                            | N/A       | N/A        | N/A                            | N/A                      | N/A               | N/A                                  | N/A            | N/A                                  | N/A           |

Note: 1. The value with green color is the maximum SAR Value of each test band.

2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is optional for such test configuration(s).

3. When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.

4. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was  $\leq 1.2$  W/kg, no additional SAR evaluations using a headset cable were required.

5. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq 1/4$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## SAR Values [LTE Band 41]

| Test Position                                         | Channel/<br>Frequency<br>(MHz) | Test Mode | Duty Cycle | Maximum Allowed Power<br>(dBm) | Conducted Power<br>(dBm) | Drift<br>± 0.21dB | Limit SAR <sub>1g</sub> 1.6 W/kg     |                |                                      |               |
|-------------------------------------------------------|--------------------------------|-----------|------------|--------------------------------|--------------------------|-------------------|--------------------------------------|----------------|--------------------------------------|---------------|
|                                                       |                                |           |            |                                |                          | Drift<br>(dB)     | Measured SAR <sub>1g</sub><br>(W/kg) | Scaling Factor | Reported SAR <sub>1g</sub><br>(W/kg) | Graph Results |
| Test Position of Head                                 |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Left/Cheek                                            | 2593                           | 1RB       | 1:1        | 23.00                          | 22.59                    | 0.13              | 0.066                                | 1.10           | 0.073                                | #13           |
| Left/Tilt                                             | 2593                           | 1RB       | 1:1        | 23.00                          | 22.59                    | 0.00              | 0.058                                | 1.10           | 0.064                                | N/A           |
| Right/Cheek                                           | 2593                           | 1RB       | 1:1        | 23.00                          | 22.59                    | -0.04             | 0.061                                | 1.10           | 0.067                                | N/A           |
| Right/Tilt                                            | 2593                           | 1RB       | 1:1        | 23.00                          | 22.59                    | 0.03              | 0.041                                | 1.10           | 0.046                                | N/A           |
| Left/Cheek                                            | 2593                           | 50%RB     | 1:1        | 22.00                          | 21.70                    | 0.11              | 0.055                                | 1.07           | 0.059                                | N/A           |
| Left/Tilt                                             | 2593                           | 50%RB     | 1:1        | 22.00                          | 21.70                    | -0.01             | 0.040                                | 1.07           | 0.043                                | N/A           |
| Right/Cheek                                           | 2593                           | 50%RB     | 1:1        | 22.00                          | 21.70                    | 0.04              | 0.046                                | 1.07           | 0.050                                | N/A           |
| Right/Tilt                                            | 2593                           | 50%RB     | 1:1        | 22.00                          | 21.70                    | 0.08              | 0.041                                | 1.07           | 0.044                                | N/A           |
| Test position of PPT Head Face up(Distance25mm)       |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Face up                                               | 2593                           | 1RB       | 1:1        | 23.00                          | 22.59                    | 0.04              | 0.111                                | 1.10           | 0.122                                | N/A           |
| Face up                                               | 2593                           | 50%RB     | 1:1        | 22.00                          | 21.70                    | 0.04              | 0.057                                | 1.07           | 0.061                                | N/A           |
| Test position of PPT Body-worn with clip(Distance0mm) |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Rear Side                                             | 2593                           | 1RB       | 1:1        | 23.00                          | 22.59                    | -0.09             | 0.324                                | 1.10           | 0.356                                | N/A           |
| Rear Side                                             | 2593                           | 50%RB     | 1:1        | 22.00                          | 21.70                    | -0.07             | 0.231                                | 1.07           | 0.248                                | N/A           |
| Test position of Hotspot Mode (Distance 10mm)         |                                |           |            |                                |                          |                   |                                      |                |                                      |               |
| Rear Side                                             | 2593                           | 1RB       | 1:1        | 23.00                          | 22.59                    | -0.13             | 0.381                                | 1.10           | 0.419                                | #29           |
| Front Side                                            | 2593                           | 1RB       | 1:1        | 23.00                          | 22.59                    | 0.05              | 0.246                                | 1.10           | 0.270                                | N/A           |
| Left Edge                                             | 2593                           | 1RB       | 1:1        | 23.00                          | 22.59                    | 0.07              | 0.162                                | 1.10           | 0.178                                | N/A           |
| Right Edge                                            | 2593                           | 1RB       | 1:1        | 23.00                          | 22.59                    | -0.05             | 0.121                                | 1.10           | 0.133                                | N/A           |
| Top Edge                                              | 2593                           | 1RB       | 1:1        | 23.00                          | 22.59                    | -0.08             | 0.174                                | 1.10           | 0.191                                | N/A           |
| Bottom Edge                                           | N/A                            | N/A       | N/A        | N/A                            | N/A                      | N/A               | N/A                                  | N/A            | N/A                                  | N/A           |
| Rear Side                                             | 2593                           | 50%RB     | 1:1        | 22.00                          | 21.70                    | -0.10             | 0.272                                | 1.07           | 0.292                                | N/A           |
| Front Side                                            | 2593                           | 50%RB     | 1:1        | 22.00                          | 21.70                    | 0.06              | 0.127                                | 1.07           | 0.136                                | N/A           |
| Left Edge                                             | 2593                           | 50%RB     | 1:1        | 22.00                          | 21.70                    | 0.08              | 0.175                                | 1.07           | 0.188                                | N/A           |
| Right Edge                                            | 2593                           | 50%RB     | 1:1        | 22.00                          | 21.70                    | -0.04             | 0.145                                | 1.07           | 0.155                                | N/A           |
| Top Edge                                              | 2593                           | 50%RB     | 1:1        | 22.00                          | 21.70                    | -0.01             | 0.124                                | 1.07           | 0.133                                | N/A           |
| Bottom Edge                                           | N/A                            | N/A       | N/A        | N/A                            | N/A                      | N/A               | N/A                                  | N/A            | N/A                                  | N/A           |

Note: 1. The value with green color is the maximum SAR Value of each test band.

2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg then testing at the other channels is optional for such test configuration(s).

3. When multiple slots are used, SAR should be tested to account for the maximum source-based time-averaged output power.

4. Per FCC KDB Publication 648474 D04, SAR was evaluated without a headset connected to the device. Since the reported SAR was  $\leq 1.2$  W/kg, no additional SAR evaluations using a headset cable were required.

5. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq 1/4$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## SAR Values [WIFI2.4G]

| Test Position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Channel/<br>Frequency<br>(MHz) | Service | Duty<br>Cycle | Maximum<br>Allowed<br>Power<br>(dBm) | Conducted<br><br>Power<br>(dBm) | Drift<br>± 0.21dB | Limit SAR <sub>1g</sub> 1.6 W/kg        |                   |                                         |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------|---------------|--------------------------------------|---------------------------------|-------------------|-----------------------------------------|-------------------|-----------------------------------------|------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |         |               |                                      |                                 | Drift<br>(dB)     | Measured<br>SAR <sub>1g</sub><br>(W/kg) | Scaling<br>Factor | Reported<br>SAR <sub>1g</sub><br>(W/kg) | Graph<br>Results |
| Test Position of Head                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |         |               |                                      |                                 |                   |                                         |                   |                                         |                  |
| Left/Cheek                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11/2462                        | DSSS    | 1:1.01        | 10.00                                | 9.29                            | -0.10             | 0.270                                   | 1.18              | 0.321                                   | #14              |
| Left/Tilt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11/2462                        | DSSS    | 1:1.01        | 10.00                                | 9.29                            | 0.14              | 0.229                                   | 1.18              | 0.272                                   | N/A              |
| Right/Cheek                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11/2462                        | DSSS    | 1:1.01        | 10.00                                | 9.29                            | 0.05              | 0.246                                   | 1.18              | 0.292                                   | N/A              |
| Right/Tilt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11/2462                        | DSSS    | 1:1.01        | 10.00                                | 9.29                            | -0.07             | 0.214                                   | 1.18              | 0.255                                   | N/A              |
| Test position of PPT Head Face up(Distance25mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |         |               |                                      |                                 |                   |                                         |                   |                                         |                  |
| Face up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 11/2462                        | DSSS    | 1:1.01        | 10.00                                | 9.29                            | 0.13              | 0.037                                   | 1.18              | 0.044                                   | N/A              |
| Test position of PPT Body-worn with clip(Distance0mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |         |               |                                      |                                 |                   |                                         |                   |                                         |                  |
| Rear Side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11/2462                        | DSSS    | 1:1.01        | 10.00                                | 9.29                            | -0.13             | 0.114                                   | 1.18              | 0.135                                   | N/A              |
| Test position of Hotspot Mode (Distance 10mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                |         |               |                                      |                                 |                   |                                         |                   |                                         |                  |
| Rear Side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11/2462                        | DSSS    | 1:1.01        | 10.00                                | 9.29                            | -0.19             | 0.134                                   | 1.18              | 0.158                                   | #30              |
| Front Side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11/2462                        | DSSS    | 1:1.01        | 10.00                                | 9.29                            | 0.18              | 0.082                                   | 1.18              | 0.097                                   | N/A              |
| Left Edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11/2462                        | DSSS    | 1:1.01        | 10.00                                | 9.29                            | -0.14             | 0.046                                   | 1.18              | 0.054                                   | N/A              |
| Right Edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11/2462                        | DSSS    | 1:1.01        | 10.00                                | 9.29                            | 0.16              | 0.010                                   | 1.18              | 0.012                                   | N/A              |
| Top Edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 11/2462                        | DSSS    | 1:1.01        | 10.00                                | 9.29                            | -0.15             | 0.069                                   | 1.18              | 0.082                                   | N/A              |
| Bottom<br>Edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N/A                            | N/A     | N/A           | N/A                                  | N/A                             | N/A               | N/A                                     | N/A               | N/A                                     | N/A              |
| Note: 1. The value with green color is the maximum SAR Value of each test band.<br>2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is optional for such test configuration(s).<br>3.Per KDB 248227-SAR is measured using the highest measured maximum output power channel for the initial test configuration.<br>4. Per KDB 248227- Channels with measured maximum output power within ¼ dB of each other are considered to have the same maximum output, When there are multiple test channels with the same measured maximum output power, the channel closest to mid-band frequency is selected for SAR measurement. And when there are multiple test channels with the same measured maximum output power and equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.<br>5. Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg the OFDM SAR test is not required. |                                |         |               |                                      |                                 |                   |                                         |                   |                                         |                  |

**Remark:** The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was

0.479 W/Kg ( $0.479 \times (18/18) = 0.479$ ) So OFDM SAR test is not required.

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## SAR Values [WIFI U-NII 1]

| Test Position                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Channel/<br>Frequency (MHz) | Service | Duty Cycle | Maximum Allowed Power (dBm) | Conducted Power (dBm) | Drift $\pm 0.21\text{dB}$ | Limit SAR <sub>1g</sub> 1.6 W/kg  |                |                                   |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------|------------|-----------------------------|-----------------------|---------------------------|-----------------------------------|----------------|-----------------------------------|---------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |         |            |                             |                       | Drift (dB)                | Measured SAR <sub>1g</sub> (W/kg) | Scaling Factor | Reported SAR <sub>1g</sub> (W/kg) | Graph Results |
| Test Position of Head                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                             |         |            |                             |                       |                           |                                   |                |                                   |               |
| Left/Cheek                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5240                        | OFDM    | 1:1.03     | 13.00                       | 12.77                 | -0.11                     | 0.246                             | 1.05           | 0.265                             | #15           |
| Left/Tilt                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5240                        | OFDM    | 1:1.03     | 13.00                       | 12.77                 | 0.15                      | 0.208                             | 1.05           | 0.225                             | N/A           |
| Right/Cheek                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5240                        | OFDM    | 1:1.03     | 13.00                       | 12.77                 | 0.06                      | 0.224                             | 1.05           | 0.242                             | N/A           |
| Right/Tilt                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5240                        | OFDM    | 1:1.03     | 13.00                       | 12.77                 | -0.08                     | 0.195                             | 1.05           | 0.210                             | N/A           |
| Test position of PPT Head Face up(Distance25mm)                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |         |            |                             |                       |                           |                                   |                |                                   |               |
| Face up                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5240                        | OFDM    | 1:1.03     | 13.00                       | 12.77                 | 0.11                      | 0.051                             | 1.05           | 0.055                             | N/A           |
| Test position of PPT Body-worn with clip(Distance0mm)                                                                                                                                                                                                                                                                                                                                                                                                                           |                             |         |            |                             |                       |                           |                                   |                |                                   |               |
| Rear Side                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5240                        | OFDM    | 1:1.03     | 13.00                       | 12.77                 | -0.07                     | 0.158                             | 1.05           | 0.171                             | N/A           |
| Test position of Hotspot Mode (Distance 10mm)                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |         |            |                             |                       |                           |                                   |                |                                   |               |
| Rear Side                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5240                        | OFDM    | 1:1.03     | 13.00                       | 12.77                 | -0.1                      | 0.186                             | 1.05           | 0.201                             | #31           |
| Front Side                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5240                        | OFDM    | 1:1.03     | 13.00                       | 12.77                 | 0.15                      | 0.114                             | 1.05           | 0.124                             | N/A           |
| Left Edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5240                        | OFDM    | 1:1.03     | 13.00                       | 12.77                 | -0.07                     | 0.046                             | 1.05           | 0.050                             | N/A           |
| Right Edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5240                        | OFDM    | 1:1.03     | 13.00                       | 12.77                 | 0.08                      | 0.010                             | 1.05           | 0.011                             | N/A           |
| Top Edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5240                        | OFDM    | 1:1.03     | 13.00                       | 12.77                 | -0.13                     | 0.096                             | 1.05           | 0.103                             | N/A           |
| Bottom Edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | N/A                         | N/A     | N/A        | N/A                         | N/A                   | N/A                       | N/A                               | N/A            | N/A                               | N/A           |
| Note:1.The value with green color is the maximum SAR Value of each test band.<br>2.Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is $\leq 0.8$ W/kg then testing at the other channels is optional for such test configuration(s).<br>3.Per KDB 248227-SAR is measured using the highest measured maximum output power channel for the initial test configuration |                             |         |            |                             |                       |                           |                                   |                |                                   |               |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
 400-003-0500  
 www.anbotek.com

## SAR Values [WIFI U-NII 3]

| Test Position                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Channel/<br>Frequency<br>(MHz) | Service | Duty<br>Cycle | Maximum<br>Allowed<br>Power<br>(dBm) | Conducted<br>Power<br>(dBm) | Drift<br>± 0.21dB | Limit SAR <sub>1g</sub> 1.6 W/kg        |                   |                                         |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------|---------------|--------------------------------------|-----------------------------|-------------------|-----------------------------------------|-------------------|-----------------------------------------|------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |         |               |                                      |                             | Drift<br>(dB)     | Measured<br>SAR <sub>1g</sub><br>(W/kg) | Scaling<br>Factor | Reported<br>SAR <sub>1g</sub><br>(W/kg) | Graph<br>Results |
| Test Position of Head                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |         |               |                                      |                             |                   |                                         |                   |                                         |                  |
| Left/Cheek                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5825                           | OFDM    | 1:1.03        | 12.00                                | 11.77                       | 0.12              | 0.196                                   | 1.05              | 0.212                                   | #16              |
| Left/Tilt                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5825                           | OFDM    | 1:1.03        | 12.00                                | 11.77                       | -0.16             | 0.166                                   | 1.05              | 0.179                                   | N/A              |
| Right/Cheek                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5825                           | OFDM    | 1:1.03        | 12.00                                | 11.77                       | -0.07             | 0.178                                   | 1.05              | 0.193                                   | N/A              |
| Right/Tilt                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5825                           | OFDM    | 1:1.03        | 12.00                                | 11.77                       | 0.09              | 0.155                                   | 1.05              | 0.168                                   | N/A              |
| Test position of PPT Head Face up(Distance25mm)                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |         |               |                                      |                             |                   |                                         |                   |                                         |                  |
| Face up                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5825                           | OFDM    | 1:1.03        | 12.00                                | 11.77                       | -0.04             | 0.047                                   | 1.05              | 0.050                                   | N/A              |
| Test position of PPT Body-worn with clip(Distance0mm)                                                                                                                                                                                                                                                                                                                                                                                                                       |                                |         |               |                                      |                             |                   |                                         |                   |                                         |                  |
| Rear Side                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5825                           | OFDM    | 1:1.03        | 12.00                                | 11.77                       | -0.10             | 0.147                                   | 1.05              | 0.159                                   | N/A              |
| Test position of Hotspot Mode (Distance 10mm)                                                                                                                                                                                                                                                                                                                                                                                                                               |                                |         |               |                                      |                             |                   |                                         |                   |                                         |                  |
| Rear Side                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5825                           | OFDM    | 1:1.03        | 12.00                                | 11.77                       | -0.14             | 0.173                                   | 1.05              | 0.186                                   | #32              |
| Front Side                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5825                           | OFDM    | 1:1.03        | 12.00                                | 11.77                       | -0.06             | 0.119                                   | 1.05              | 0.128                                   | N/A              |
| Left Edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5825                           | OFDM    | 1:1.03        | 12.00                                | 11.77                       | 0.10              | 0.082                                   | 1.05              | 0.088                                   | N/A              |
| Right Edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5825                           | OFDM    | 1:1.03        | 12.00                                | 11.77                       | -0.18             | 0.023                                   | 1.05              | 0.029                                   | N/A              |
| Top Edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5825                           | OFDM    | 1:1.03        | 12.00                                | 11.77                       | -0.07             | 0.089                                   | 1.05              | 0.096                                   | N/A              |
| Bottom<br>Edge                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N/A                            | N/A     | N/A           | N/A                                  | N/A                         | N/A               | N/A                                     | N/A               | N/A                                     | N/A              |
| Note: 1.The value with green color is the maximum SAR Value of each test band.<br>2.Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is optional for such test configuration(s).<br>3.Per KDB 248227-SAR is measured using the highest measured maximum output power channel for the initial test configuration |                                |         |               |                                      |                             |                   |                                         |                   |                                         |                  |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## SAR Values [PPT136-174MHz]

| Test<br>Frequency<br>MHz                                                                                                                                                                                                                                                                                                                    | Maximum<br>Allowed<br>Power<br>(dBm) | Measured<br>ERP<br>(dBm) | Measurement SAR <sub>1-g</sub><br>(W/Kg) |               | Power<br>drift | Scaling<br>Factor | Reported<br>SAR <sub>1-g</sub><br>(W/kg) |               | SAR<br>limit<br>1g<br>(W/kg) | Ref.<br>Plot |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------|------------------------------------------|---------------|----------------|-------------------|------------------------------------------|---------------|------------------------------|--------------|
|                                                                                                                                                                                                                                                                                                                                             |                                      |                          | 100%                                     | 50%           |                |                   | 100%                                     | 50%           |                              |              |
|                                                                                                                                                                                                                                                                                                                                             |                                      |                          | Duty<br>Cycle                            | Duty<br>Cycle |                |                   | Duty<br>Cycle                            | Duty<br>Cycle |                              |              |
| Analog/FM12.5KHz Face Held (Test distance 25mm)                                                                                                                                                                                                                                                                                             |                                      |                          |                                          |               |                |                   |                                          |               |                              |              |
| 136.05                                                                                                                                                                                                                                                                                                                                      | 36.50                                | 35.83                    | 1.17                                     | 0.585         | 0.11           | 1.17              | 1.37                                     | 0.683         | 8                            |              |
| 150.825                                                                                                                                                                                                                                                                                                                                     | 36.50                                | 35.97                    | 1.19                                     | 0.595         | 0.03           | 1.13              | 1.34                                     | 0.672         | 8                            |              |
| 155.00                                                                                                                                                                                                                                                                                                                                      | 36.50                                | 36.31                    | 1.22                                     | 0.610         | 0.08           | 1.04              | 1.27                                     | 0.637         | 8                            |              |
| 164.5                                                                                                                                                                                                                                                                                                                                       | 36.50                                | 36.20                    | 1.23                                     | 0.615         | 0.18           | 1.07              | 1.32                                     | 0.659         | 8                            |              |
| 173.375                                                                                                                                                                                                                                                                                                                                     | 36.50                                | 36.11                    | 1.26                                     | 0.630         | 0.11           | 1.09              | 1.38                                     | 0.689         | 8                            | #33          |
| 173.95                                                                                                                                                                                                                                                                                                                                      | 36.50                                | 36.07                    | 1.13                                     | 0.565         | 0.11           | 1.10              | 1.25                                     | 0.624         | 8                            |              |
| Digital/4FSK 12.5KHz Face Held (Test distance 25mm)                                                                                                                                                                                                                                                                                         |                                      |                          |                                          |               |                |                   |                                          |               |                              |              |
| 173.375                                                                                                                                                                                                                                                                                                                                     | 36.50                                | 36.09                    | 0.466                                    | 0.233         | 0.08           | 1.10              | 0.51                                     | 0.256         | 8.0                          |              |
| Analog/FM12.5KHzBody Worn with clip(Test distance 0mm)                                                                                                                                                                                                                                                                                      |                                      |                          |                                          |               |                |                   |                                          |               |                              |              |
| 136.05                                                                                                                                                                                                                                                                                                                                      | 36.50                                | 35.83                    | 2.36                                     | 1.180         | 0.02           | 1.17              | 2.75                                     | 1.377         | 8                            |              |
| 150.825                                                                                                                                                                                                                                                                                                                                     | 36.50                                | 35.97                    | 2.41                                     | 1.205         | -0.1           | 1.13              | 2.72                                     | 1.361         | 8                            |              |
| 155.00                                                                                                                                                                                                                                                                                                                                      | 36.50                                | 36.31                    | 2.47                                     | 1.235         | 0.13           | 1.04              | 2.58                                     | 1.290         | 8                            |              |
| 164.5                                                                                                                                                                                                                                                                                                                                       | 36.50                                | 36.20                    | 2.63                                     | 1.315         | 0.19           | 1.07              | 2.82                                     | 1.409         | 8                            | #34          |
| 173.375                                                                                                                                                                                                                                                                                                                                     | 36.50                                | 36.11                    | 2.54                                     | 1.270         | 0.12           | 1.09              | 2.78                                     | 1.389         | 8                            |              |
| 173.95                                                                                                                                                                                                                                                                                                                                      | 36.50                                | 36.07                    | 2.43                                     | 1.215         | 0.12           | 1.10              | 2.68                                     | 1.34          | 8                            |              |
| Digital/4FSK 12.5KHzBody Worn with clip(Test distance 0mm)                                                                                                                                                                                                                                                                                  |                                      |                          |                                          |               |                |                   |                                          |               |                              |              |
| 164.5                                                                                                                                                                                                                                                                                                                                       | 36.50                                | 36.06                    | 1.52                                     | 0.760         | 0.1            | 1.11              | 1.68                                     | 1.28          | 8.0                          |              |
| Note:1.The value with green color is the maximum SAR Value of each test band.<br>2.Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is optional for such test configuration(s). |                                      |                          |                                          |               |                |                   |                                          |               |                              |              |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com

## SAR Values [PPT400-470MHz]

| Test<br>Frequency<br>MHz                                                                                                                                                                                                                                                                                                                    | Maximum<br>Allowed<br>Power<br>(dBm) | Measured<br>ERP<br>(dBm) | Measurement SAR <sub>1-g</sub><br>(W/Kg) |               | Power<br>drift | Scaling<br>Factor | Reported<br>SAR <sub>1-g</sub><br>(W/kg) |               | SAR<br>limit<br>1g<br>(W/kg) | Ref.<br>Plot |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------|------------------------------------------|---------------|----------------|-------------------|------------------------------------------|---------------|------------------------------|--------------|
|                                                                                                                                                                                                                                                                                                                                             |                                      |                          | 100%                                     | 50%           |                |                   | 100%                                     | 50%           |                              |              |
|                                                                                                                                                                                                                                                                                                                                             |                                      |                          | Duty<br>Cycle                            | Duty<br>Cycle |                |                   | Duty<br>Cycle                            | Duty<br>Cycle |                              |              |
| Analog/FM12.5KHz Face Held (Test distance 25mm)                                                                                                                                                                                                                                                                                             |                                      |                          |                                          |               |                |                   |                                          |               |                              |              |
| 400.05                                                                                                                                                                                                                                                                                                                                      | 36.80                                | 36.39                    | 1.33                                     | 0.665         | 0.07           | 1.10              | 1.462                                    | 0.731         | 8                            |              |
| 406.15                                                                                                                                                                                                                                                                                                                                      | 36.80                                | 36.51                    | 1.36                                     | 0.68          | -0.11          | 1.07              | 1.454                                    | 0.727         | 8                            |              |
| 417.00                                                                                                                                                                                                                                                                                                                                      | 36.80                                | 36.56                    | 1.43                                     | 0.715         | -0.03          | 1.06              | 1.511                                    | 0.756         | 8                            |              |
| 435.05                                                                                                                                                                                                                                                                                                                                      | 36.80                                | 36.70                    | 1.49                                     | 0.745         | -0.08          | 1.02              | 1.525                                    | 0.762         | 8                            |              |
| 452.00                                                                                                                                                                                                                                                                                                                                      | 36.80                                | 36.81                    | 1.56                                     | 0.78          | -0.02          | 1.00              | 1.556                                    | 0.778         | 8                            | #35          |
| 469.95                                                                                                                                                                                                                                                                                                                                      | 36.80                                | 36.61                    | 1.45                                     | 0.725         | -0.11          | 1.04              | 1.515                                    | 0.757         | 8                            |              |
| Digital/4FSK 12.5KHz Face Held (Test distance 25mm)                                                                                                                                                                                                                                                                                         |                                      |                          |                                          |               |                |                   |                                          |               |                              |              |
| 452.00                                                                                                                                                                                                                                                                                                                                      | 36.80                                | 36.77                    | 0.855                                    | 0.4275        | -0.08          | 1.01              | 0.861                                    | 0.430         | 8.0                          |              |
| Analog/FM12.5KHzBody Worn(Test distance 0mm)                                                                                                                                                                                                                                                                                                |                                      |                          |                                          |               |                |                   |                                          |               |                              |              |
| 400.05                                                                                                                                                                                                                                                                                                                                      | 36.80                                | 36.39                    | 3.01                                     | 1.505         | -0.15          | 1.10              | 3.308                                    | 1.654         | 8                            |              |
| 406.15                                                                                                                                                                                                                                                                                                                                      | 36.80                                | 36.51                    | 3.07                                     | 1.535         | -0.02          | 1.07              | 3.282                                    | 1.641         | 8                            |              |
| 417.00                                                                                                                                                                                                                                                                                                                                      | 36.80                                | 36.56                    | 3.12                                     | 1.56          | -0.1           | 1.06              | 3.297                                    | 1.649         | 8                            |              |
| 435.05                                                                                                                                                                                                                                                                                                                                      | 36.80                                | 36.70                    | 3.22                                     | 1.61          | -0.13          | 1.02              | 3.295                                    | 1.648         | 8                            |              |
| 452.00                                                                                                                                                                                                                                                                                                                                      | 36.80                                | 36.81                    | 3.26                                     | 1.64          | -0.16          | 1.00              | 3.272                                    | 1.636         | 8                            |              |
| 469.95                                                                                                                                                                                                                                                                                                                                      | 36.80                                | 36.61                    | 3.28                                     | 1.6           | -0.12          | 1.04              | 3.343                                    | 1.672         | 8                            | #36          |
| Digital/4FSK 12.5KHzBody Worn(Test distance 0mm)                                                                                                                                                                                                                                                                                            |                                      |                          |                                          |               |                |                   |                                          |               |                              |              |
| 469.95                                                                                                                                                                                                                                                                                                                                      | 36.8                                 | 36.6                     | 1.73                                     | 0.865         | 0.1            | 1.05              | 1.812                                    | 0.906         | 8.0                          |              |
| Note:1.The value with green color is the maximum SAR Value of each test band.<br>2.Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is optional for such test configuration(s). |                                      |                          |                                          |               |                |                   |                                          |               |                              |              |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com

## 14. SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. The following procedures are applied to determine if repeated measurements are required.

- 1) Repeated measurement is not required when the original highest measured SAR is  $< 0.80$  W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is  $\geq 0.80$  W/kg, repeat that measurement once.
- 3) Perform a third repeated measurement only if the original, first or second repeated measurement is  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ .

## 15. Simultaneous Transmission Analysis

| Mode | Air-Interface     | Simultaneous? | Hotspot? |
|------|-------------------|---------------|----------|
| 1    | WWAN+BT2.4G+PPT   | YES           | No       |
| 2    | WWAN+WLAN2.4G+PPT | YES           | No       |
| 3    | WWAN+WLAN5.2G+PPT | YES           | No       |
| 4    | WWAN+WLAN5.8G+PPT | YES           | No       |
| 5    | WWAN+WLAN         | YES           | YES      |

General note:

1. The EUT support WWAN(GSM/WCDMA/LTE), WLAN(WIFI 2.4GHz/5GHz), Bluetooth and PPT technology.
2. The PTT mode can't work in Earphone Speaking mode.
3. The PPT mode can't transmit Simultaneously with WWAN Voice mode.
4. The PPT mode can transmit Simultaneously with WWAN data mode or WLAN/Bluetooth, the data communication keep linked when PTT mode works.
5. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
6. EUT will choose either GSM or WCDMA LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
7. The reported SAR summation is calculated based on the same configuration and test position
8. For simultaneous transmission analysis, Bluetooth SAR is estimated per KDB 447498 D01 based on the formula below
  - a)  $[(\text{max. Power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}]/x \text{ W/kg}$  for test separation distances  $\leq 50\text{mm}$ ; when  $x=7.5$  for 1-g SAR, and  $x=18.75$  for 10-g SAR.
  - b) When the minimum separation distance is  $<5\text{mm}$ , the distance is used 5mm to determine SAR test exclusion
  - c) 0.4 W/kg for 1-g SAR and 1.0W/kg for 10-g SAR, when the test separation distances is  $>50\text{mm}$ .

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

| Estimated stand alone SAR |                 |                     |                                                   |                          |                                     |
|---------------------------|-----------------|---------------------|---------------------------------------------------|--------------------------|-------------------------------------|
| Communication system      | Frequency (MHz) | Configuration       | Maximum Power (including tune-up tolerance) (dBm) | Separation Distance (mm) | Estimated SAR <sub>1-g</sub> (W/kg) |
| Bluetooth*                | 2402            | Head                | 4                                                 | 5                        | 0.106                               |
| Bluetooth*                | 2402            | Body Worn/Hotspot   | 4                                                 | 10                       | 0.053                               |
| Bluetooth*                | 2402            | Face Up             | 4                                                 | 25                       | 0.021                               |
| Bluetooth*                | 2402            | Body Worn with clip | 4                                                 | 13                       | 0.041                               |

### Simultaneous and Hotspot SAR test exclusion considerations:

#### WWAN+BT2.4G+PPT Simultaneous mode:

| Mode<br>(WWAN+ BT2.4G<br>+PPT) | Position                       | Reported SAR(W/Kg) |        |         |         | $\Sigma$ Mix<br>SAR(SAR-to<br>limit)<1 | $\Sigma$<br>SAR<8.0W/kg |
|--------------------------------|--------------------------------|--------------------|--------|---------|---------|----------------------------------------|-------------------------|
|                                |                                | WWAN               | BT2.4G | PPT VHF | PPT UFH |                                        |                         |
| GSM850+ BT2.4G<br>+PTT         | Head Left<br>Check             | 0.389              | 0.106  | N/A     | N/A     | 0.309                                  | 0.495                   |
|                                | Head Left Tilt                 | 0.297              | 0.106  | N/A     | N/A     | 0.252                                  | 0.403                   |
|                                | Head Right<br>Check            | 0.367              | 0.106  | N/A     | N/A     | 0.296                                  | 0.473                   |
|                                | Head Right Tilt                | 0.292              | 0.106  | N/A     | N/A     | 0.249                                  | 0.398                   |
|                                | Face<br>Up(25mm)               | 0.061              | 0.021  | 0.689   | 0.778   | 0.149                                  | 0.86                    |
|                                | Body Back<br>with<br>clip(0mm) | 0.174              | 0.041  | 1.409   | 1.672   | 0.343                                  | 1.887                   |
| PCS1900+ BT2.4G<br>+PTT        | Head Left<br>Check             | 0.368              | 0.106  | N/A     | N/A     | 0.296                                  | 0.474                   |
|                                | Head Left Tilt                 | 0.273              | 0.106  | N/A     | N/A     | 0.237                                  | 0.379                   |
|                                | Head Right<br>Check            | 0.337              | 0.106  | N/A     | N/A     | 0.277                                  | 0.443                   |
|                                | Head Right Tilt                | 0.257              | 0.106  | N/A     | N/A     | 0.227                                  | 0.363                   |
|                                | Face<br>Up(25mm)               | 0.032              | 0.021  | 0.689   | 0.778   | 0.130                                  | 0.831                   |
|                                | Body Back<br>with<br>clip(0mm) | 0.091              | 0.041  | 1.409   | 1.672   | 0.292                                  | 1.804                   |
| WCDMA Band 2+<br>BT2.4G +PTT   | Head Left<br>Check             | 0.354              | 0.106  | N/A     | N/A     | 0.288                                  | 0.46                    |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com

|                              |                          |       |       |       |       |       |       |
|------------------------------|--------------------------|-------|-------|-------|-------|-------|-------|
|                              | Head Left Tilt           | 0.292 | 0.106 | N/A   | N/A   | 0.249 | 0.398 |
|                              | Head Right Check         | 0.336 | 0.106 | N/A   | N/A   | 0.276 | 0.442 |
|                              | Head Right Tilt          | 0.271 | 0.106 | N/A   | N/A   | 0.236 | 0.377 |
|                              | Face Up(25mm)            | 0.068 | 0.021 | 0.689 | 0.778 | 0.153 | 0.867 |
|                              | Body Back with clip(0mm) | 0.179 | 0.041 | 1.409 | 1.672 | 0.347 | 1.892 |
| WCDMA Band 5+<br>BT2.4G +PTT | Head Left Check          | 0.302 | 0.106 | N/A   | N/A   | 0.255 | 0.408 |
|                              | Head Left Tilt           | 0.243 | 0.106 | N/A   | N/A   | 0.218 | 0.349 |
|                              | Head Right Check         | 0.288 | 0.106 | N/A   | N/A   | 0.246 | 0.394 |
|                              | Head Right Tilt          | 0.221 | 0.106 | N/A   | N/A   | 0.204 | 0.327 |
|                              | Face Up(25mm)            | 0.063 | 0.021 | 0.689 | 0.778 | 0.150 | 0.862 |
|                              | Body Back with clip(0mm) | 0.173 | 0.041 | 1.409 | 1.672 | 0.343 | 1.886 |
| LTE band 2+ BT2.4G<br>+PTT   | Head Left Check          | 0.233 | 0.106 | N/A   | N/A   | 0.212 | 0.339 |
|                              | Head Left Tilt           | 0.178 | 0.106 | N/A   | N/A   | 0.178 | 0.284 |
|                              | Head Right Check         | 0.220 | 0.106 | N/A   | N/A   | 0.204 | 0.326 |
|                              | Head Right Tilt          | 0.175 | 0.106 | N/A   | N/A   | 0.176 | 0.281 |
|                              | Face Up(25mm)            | 0.060 | 0.021 | 0.689 | 0.778 | 0.148 | 0.859 |
|                              | Body Back with clip(0mm) | 0.173 | 0.041 | 1.409 | 1.672 | 0.343 | 1.886 |
| LTE band 4+ BT2.4G<br>+PTT   | Head Left Check          | 0.269 | 0.106 | N/A   | N/A   | 0.234 | 0.375 |
|                              | Head Left Tilt           | 0.201 | 0.106 | N/A   | N/A   | 0.192 | 0.307 |
|                              | Head Right Check         | 0.236 | 0.106 | N/A   | N/A   | 0.214 | 0.342 |
|                              | Head Right Tilt          | 0.137 | 0.106 | N/A   | N/A   | 0.152 | 0.243 |
|                              | Face Up(25mm)            | 0.068 | 0.021 | 0.689 | 0.778 | 0.153 | 0.867 |
|                              | Body Back with clip(0mm) | 0.278 | 0.041 | 1.409 | 1.672 | 0.408 | 1.991 |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|                             |                                |       |       |       |       |       |       |
|-----------------------------|--------------------------------|-------|-------|-------|-------|-------|-------|
|                             | clip(0mm)                      |       |       |       |       |       |       |
| LTE band 5+ BT2.4G<br>+PTT  | Head Left<br>Check             | 0.528 | 0.106 | N/A   | N/A   | 0.396 | 0.634 |
|                             | Head Left Tilt                 | 0.404 | 0.106 | N/A   | N/A   | 0.319 | 0.51  |
|                             | Head Right<br>Check            | 0.497 | 0.106 | N/A   | N/A   | 0.377 | 0.603 |
|                             | Head Right Tilt                | 0.397 | 0.106 | N/A   | N/A   | 0.314 | 0.503 |
|                             | Face<br>Up(25mm)               | 0.130 | 0.021 | 0.689 | 0.778 | 0.192 | 0.929 |
|                             | Body Back<br>with<br>clip(0mm) | 0.371 | 0.041 | 1.409 | 1.672 | 0.467 | 2.084 |
| LTE band 7+ BT2.4G<br>+PTT  | Head Left<br>Check             | 0.184 | 0.106 | N/A   | N/A   | 0.181 | 0.29  |
|                             | Head Left Tilt                 | 0.143 | 0.106 | N/A   | N/A   | 0.156 | 0.249 |
|                             | Head Right<br>Check            | 0.166 | 0.106 | N/A   | N/A   | 0.170 | 0.272 |
|                             | Head Right Tilt                | 0.125 | 0.106 | N/A   | N/A   | 0.144 | 0.231 |
|                             | Face<br>Up(25mm)               | 0.077 | 0.021 | 0.689 | 0.778 | 0.159 | 0.876 |
|                             | Body Back<br>with<br>clip(0mm) | 0.235 | 0.041 | 1.409 | 1.672 | 0.382 | 1.948 |
| LTE band 12+ BT2.4G<br>+PTT | Head Left<br>Check             | 0.353 | 0.106 | N/A   | N/A   | 0.287 | 0.459 |
|                             | Head Left Tilt                 | 0.310 | 0.106 | N/A   | N/A   | 0.260 | 0.416 |
|                             | Head Right<br>Check            | 0.327 | 0.106 | N/A   | N/A   | 0.271 | 0.433 |
|                             | Head Right Tilt                | 0.222 | 0.106 | N/A   | N/A   | 0.205 | 0.328 |
|                             | Face<br>Up(25mm)               | 0.036 | 0.021 | 0.689 | 0.778 | 0.133 | 0.835 |
|                             | Body Back<br>with<br>clip(0mm) | 0.146 | 0.041 | 1.409 | 1.672 | 0.326 | 1.859 |
| LTE band 17+ BT2.4G<br>+PTT | Head Left<br>Check             | 0.252 | 0.106 | N/A   | N/A   | 0.224 | 0.358 |
|                             | Head Left Tilt                 | 0.234 | 0.106 | N/A   | N/A   | 0.213 | 0.34  |
|                             | Head Right<br>Check            | 0.214 | 0.106 | N/A   | N/A   | 0.200 | 0.32  |
|                             | Head Right Tilt                | 0.208 | 0.106 | N/A   | N/A   | 0.196 | 0.314 |
|                             | Face<br>Up(25mm)               | 0.041 | 0.021 | 0.689 | 0.778 | 0.136 | 0.84  |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|                             |                                |              |              |       |              |       |       |
|-----------------------------|--------------------------------|--------------|--------------|-------|--------------|-------|-------|
|                             | Up(25mm)                       |              |              |       |              |       |       |
|                             | Body Back<br>with<br>clip(0mm) | <b>0.128</b> | <b>0.041</b> | 1.409 | <b>1.672</b> | 0.315 | 1.841 |
| LTE band 26+ BT2.4G<br>+PTT | Head Left<br>Check             | <b>0.213</b> | <b>0.106</b> | N/A   | N/A          | 0.199 | 0.319 |
|                             | Head Left Tilt                 | <b>0.159</b> | <b>0.106</b> | N/A   | N/A          | 0.166 | 0.265 |
|                             | Head Right<br>Check            | <b>0.187</b> | <b>0.106</b> | N/A   | N/A          | 0.183 | 0.293 |
|                             | Head Right Tilt                | <b>0.109</b> | <b>0.106</b> | N/A   | N/A          | 0.134 | 0.215 |
|                             | Face<br>Up(25mm)               | <b>0.043</b> | <b>0.021</b> | 0.689 | <b>0.778</b> | 0.137 | 0.842 |
|                             | Body Back<br>with<br>clip(0mm) | <b>0.173</b> | <b>0.041</b> | 1.409 | <b>1.672</b> | 0.343 | 1.886 |
| LTE band 38+ BT2.4G<br>+PTT | Head Left<br>Check             | <b>0.090</b> | <b>0.106</b> | N/A   | N/A          | 0.123 | 0.196 |
|                             | Head Left Tilt                 | <b>0.070</b> | <b>0.106</b> | N/A   | N/A          | 0.110 | 0.176 |
|                             | Head Right<br>Check            | <b>0.082</b> | <b>0.106</b> | N/A   | N/A          | 0.118 | 0.188 |
|                             | Head Right Tilt                | <b>0.061</b> | <b>0.106</b> | N/A   | N/A          | 0.104 | 0.167 |
|                             | Face<br>Up(25mm)               | <b>0.035</b> | <b>0.021</b> | 0.689 | <b>0.778</b> | 0.132 | 0.834 |
|                             | Body Back<br>with<br>clip(0mm) | <b>0.105</b> | <b>0.041</b> | 1.409 | <b>1.672</b> | 0.300 | 1.818 |
| LTE band 41+ BT2.4G<br>+PTT | Head Left<br>Check             | <b>0.073</b> | <b>0.106</b> | N/A   | N/A          | 0.112 | 0.179 |
|                             | Head Left Tilt                 | <b>0.064</b> | <b>0.106</b> | N/A   | N/A          | 0.106 | 0.17  |
|                             | Head Right<br>Check            | <b>0.067</b> | <b>0.106</b> | N/A   | N/A          | 0.108 | 0.173 |
|                             | Head Right Tilt                | <b>0.046</b> | <b>0.106</b> | N/A   | N/A          | 0.095 | 0.152 |
|                             | Face<br>Up(25mm)               | <b>0.122</b> | <b>0.021</b> | 0.689 | <b>0.778</b> | 0.187 | 0.921 |
|                             | Body Back<br>with<br>clip(0mm) | <b>0.356</b> | <b>0.041</b> | 1.409 | <b>1.672</b> | 0.457 | 2.069 |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## WWAN+WLAN2.4G+PPT Simultaneous mode:

| Mode<br>(WWAN+ WLAN2.4G<br>+PPT) | Position                       | Reported SAR(W/Kg) |          |         |         | $\Sigma$ Mix<br>SAR(SAR-to<br>limit)<1 | $\Sigma$<br>SAR<8.0W/kg |
|----------------------------------|--------------------------------|--------------------|----------|---------|---------|----------------------------------------|-------------------------|
|                                  |                                | WWAN               | WLAN2.4G | PPT VHF | PPT UHF |                                        |                         |
| GSM850+ WLAN2.4G<br>+PTT         | Head Left<br>Check             | 0.389              | 0.321    | N/A     | N/A     | 0.444                                  | 0.71                    |
|                                  | Head Left Tilt                 | 0.297              | 0.272    | N/A     | N/A     | 0.356                                  | 0.569                   |
|                                  | Head Right<br>Check            | 0.367              | 0.292    | N/A     | N/A     | 0.412                                  | 0.659                   |
|                                  | Head Right<br>Tilt             | 0.292              | 0.255    | N/A     | N/A     | 0.342                                  | 0.547                   |
|                                  | Face<br>Up(25mm)               | 0.061              | 0.044    | 0.689   | 0.778   | 0.163                                  | 0.883                   |
|                                  | Body Back<br>with<br>clip(0mm) | 0.174              | 0.135    | 1.409   | 1.672   | 0.402                                  | 1.981                   |
| PCS1900+ WLAN2.4G<br>+PTT        | Head Left<br>Check             | 0.368              | 0.321    | N/A     | N/A     | 0.431                                  | 0.689                   |
|                                  | Head Left Tilt                 | 0.273              | 0.272    | N/A     | N/A     | 0.341                                  | 0.545                   |
|                                  | Head Right<br>Check            | 0.337              | 0.292    | N/A     | N/A     | 0.393                                  | 0.629                   |
|                                  | Head Right<br>Tilt             | 0.257              | 0.255    | N/A     | N/A     | 0.320                                  | 0.512                   |
|                                  | Face<br>Up(25mm)               | 0.032              | 0.044    | 0.689   | 0.778   | 0.145                                  | 0.854                   |
|                                  | Body Back<br>with<br>clip(0mm) | 0.091              | 0.135    | 1.409   | 1.672   | 0.350                                  | 1.898                   |
| WCDMA Band 2+<br>WLAN2.4G +PTT   | Head Left<br>Check             | 0.354              | 0.321    | N/A     | N/A     | 0.422                                  | 0.675                   |
|                                  | Head Left Tilt                 | 0.292              | 0.272    | N/A     | N/A     | 0.353                                  | 0.564                   |
|                                  | Head Right<br>Check            | 0.336              | 0.292    | N/A     | N/A     | 0.393                                  | 0.628                   |
|                                  | Head Right<br>Tilt             | 0.271              | 0.255    | N/A     | N/A     | 0.329                                  | 0.526                   |
|                                  | Face<br>Up(25mm)               | 0.068              | 0.044    | 0.689   | 0.778   | 0.167                                  | 0.89                    |
|                                  | Body Back<br>with<br>clip(0mm) | 0.179              | 0.135    | 1.409   | 1.672   | 0.405                                  | 1.986                   |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel:(86)755-26066440 Fax:(86)755-26014772 Email:service@anbotek.com



Hotline  
 400-003-0500  
 www.anbotek.com

|                                |                                |       |       |       |       |       |       |
|--------------------------------|--------------------------------|-------|-------|-------|-------|-------|-------|
| WCDMA Band 5+<br>WLAN2.4G +PTT | Head Left<br>Check             | 0.302 | 0.321 | N/A   | N/A   | 0.389 | 0.623 |
|                                | Head Left Tilt                 | 0.243 | 0.272 | N/A   | N/A   | 0.322 | 0.515 |
|                                | Head Right<br>Check            | 0.288 | 0.292 | N/A   | N/A   | 0.363 | 0.58  |
|                                | Head Right<br>Tilt             | 0.221 | 0.255 | N/A   | N/A   | 0.298 | 0.476 |
|                                | Face<br>Up(25mm)               | 0.063 | 0.044 | 0.689 | 0.778 | 0.164 | 0.885 |
|                                | Body Back<br>with<br>clip(0mm) | 0.173 | 0.135 | 1.409 | 1.672 | 0.402 | 1.98  |
| LTE band 2+<br>WLAN2.4G +PTT   | Head Left<br>Check             | 0.233 | 0.321 | N/A   | N/A   | 0.346 | 0.554 |
|                                | Head Left Tilt                 | 0.178 | 0.272 | N/A   | N/A   | 0.281 | 0.45  |
|                                | Head Right<br>Check            | 0.220 | 0.292 | N/A   | N/A   | 0.320 | 0.512 |
|                                | Head Right<br>Tilt             | 0.175 | 0.255 | N/A   | N/A   | 0.269 | 0.43  |
|                                | Face<br>Up(25mm)               | 0.060 | 0.044 | 0.689 | 0.778 | 0.162 | 0.882 |
|                                | Body Back<br>with<br>clip(0mm) | 0.173 | 0.135 | 1.409 | 1.672 | 0.402 | 1.98  |
| LTE band 4+<br>WLAN2.4G +PTT   | Head Left<br>Check             | 0.269 | 0.321 | N/A   | N/A   | 0.369 | 0.59  |
|                                | Head Left Tilt                 | 0.201 | 0.272 | N/A   | N/A   | 0.296 | 0.473 |
|                                | Head Right<br>Check            | 0.236 | 0.292 | N/A   | N/A   | 0.330 | 0.528 |
|                                | Head Right<br>Tilt             | 0.137 | 0.255 | N/A   | N/A   | 0.245 | 0.392 |
|                                | Face<br>Up(25mm)               | 0.068 | 0.044 | 0.689 | 0.778 | 0.167 | 0.89  |
|                                | Body Back<br>with<br>clip(0mm) | 0.278 | 0.135 | 1.409 | 1.672 | 0.467 | 2.085 |
| LTE band 5+<br>WLAN2.4G +PTT   | Head Left<br>Check             | 0.528 | 0.321 | N/A   | N/A   | 0.531 | 0.849 |
|                                | Head Left Tilt                 | 0.404 | 0.272 | N/A   | N/A   | 0.423 | 0.676 |
|                                | Head Right<br>Check            | 0.497 | 0.292 | N/A   | N/A   | 0.493 | 0.789 |

Shenzhen Anbotek Compliance Laboratory Limited



|                               |                          |       |       |       |       |       |       |
|-------------------------------|--------------------------|-------|-------|-------|-------|-------|-------|
|                               | Head Right Tilt          | 0.397 | 0.255 | N/A   | N/A   | 0.408 | 0.652 |
|                               | Face Up(25mm)            | 0.130 | 0.044 | 0.689 | 0.778 | 0.206 | 0.952 |
|                               | Body Back with clip(0mm) | 0.371 | 0.135 | 1.409 | 1.672 | 0.525 | 2.178 |
| LTE band 7+<br>WLAN2.4G +PTT  | Head Left Check          | 0.184 | 0.321 | N/A   | N/A   | 0.316 | 0.505 |
|                               | Head Left Tilt           | 0.143 | 0.272 | N/A   | N/A   | 0.259 | 0.415 |
|                               | Head Right Check         | 0.166 | 0.292 | N/A   | N/A   | 0.286 | 0.458 |
|                               | Head Right Tilt          | 0.125 | 0.255 | N/A   | N/A   | 0.238 | 0.38  |
|                               | Face Up(25mm)            | 0.077 | 0.044 | 0.689 | 0.778 | 0.173 | 0.899 |
|                               | Body Back with clip(0mm) | 0.235 | 0.135 | 1.409 | 1.672 | 0.440 | 2.042 |
| LTE band 12+<br>WLAN2.4G +PTT | Head Left Check          | 0.353 | 0.321 | N/A   | N/A   | 0.421 | 0.674 |
|                               | Head Left Tilt           | 0.310 | 0.272 | N/A   | N/A   | 0.364 | 0.582 |
|                               | Head Right Check         | 0.327 | 0.292 | N/A   | N/A   | 0.387 | 0.619 |
|                               | Head Right Tilt          | 0.222 | 0.255 | N/A   | N/A   | 0.298 | 0.477 |
|                               | Face Up(25mm)            | 0.036 | 0.044 | 0.689 | 0.778 | 0.147 | 0.858 |
|                               | Body Back with clip(0mm) | 0.146 | 0.135 | 1.409 | 1.672 | 0.385 | 1.953 |
| LTE band 17+<br>WLAN2.4G +PTT | Head Left Check          | 0.252 | 0.321 | N/A   | N/A   | 0.358 | 0.573 |
|                               | Head Left Tilt           | 0.234 | 0.272 | N/A   | N/A   | 0.316 | 0.506 |
|                               | Head Right Check         | 0.214 | 0.292 | N/A   | N/A   | 0.316 | 0.506 |
|                               | Head Right Tilt          | 0.208 | 0.255 | N/A   | N/A   | 0.289 | 0.463 |
|                               | Face Up(25mm)            | 0.041 | 0.044 | 0.689 | 0.778 | 0.150 | 0.863 |
|                               | Body Back with clip(0mm) | 0.128 | 0.135 | 1.409 | 1.672 | 0.373 | 1.935 |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|                               |                          |       |       |       |       |       |       |
|-------------------------------|--------------------------|-------|-------|-------|-------|-------|-------|
|                               | with clip(0mm)           |       |       |       |       |       |       |
| LTE band 26+<br>WLAN2.4G +PTT | Head Left Check          | 0.213 | 0.321 | N/A   | N/A   | 0.334 | 0.534 |
|                               | Head Left Tilt           | 0.159 | 0.272 | N/A   | N/A   | 0.269 | 0.431 |
|                               | Head Right Check         | 0.187 | 0.292 | N/A   | N/A   | 0.299 | 0.479 |
|                               | Head Right Tilt          | 0.109 | 0.255 | N/A   | N/A   | 0.228 | 0.364 |
|                               | Face Up(25mm)            | 0.043 | 0.044 | 0.689 | 0.778 | 0.152 | 0.865 |
|                               | Body Back with clip(0mm) | 0.173 | 0.135 | 1.409 | 1.672 | 0.402 | 1.98  |
| LTE band 38+<br>WLAN2.4G +PTT | Head Left Check          | 0.090 | 0.321 | N/A   | N/A   | 0.257 | 0.411 |
|                               | Head Left Tilt           | 0.070 | 0.272 | N/A   | N/A   | 0.214 | 0.342 |
|                               | Head Right Check         | 0.082 | 0.292 | N/A   | N/A   | 0.234 | 0.374 |
|                               | Head Right Tilt          | 0.061 | 0.255 | N/A   | N/A   | 0.198 | 0.316 |
|                               | Face Up(25mm)            | 0.035 | 0.044 | 0.689 | 0.778 | 0.147 | 0.857 |
|                               | Body Back with clip(0mm) | 0.105 | 0.135 | 1.409 | 1.672 | 0.359 | 1.912 |
| LTE band 41+<br>WLAN2.4G +PTT | Head Left Check          | 0.073 | 0.321 | N/A   | N/A   | 0.246 | 0.394 |
|                               | Head Left Tilt           | 0.064 | 0.272 | N/A   | N/A   | 0.210 | 0.336 |
|                               | Head Right Check         | 0.067 | 0.292 | N/A   | N/A   | 0.224 | 0.359 |
|                               | Head Right Tilt          | 0.046 | 0.255 | N/A   | N/A   | 0.188 | 0.301 |
|                               | Face Up(25mm)            | 0.122 | 0.044 | 0.689 | 0.778 | 0.201 | 0.944 |
|                               | Body Back with clip(0mm) | 0.356 | 0.135 | 1.409 | 1.672 | 0.516 | 2.163 |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel:(86)755-26066440 Fax:(86)755-26014772 Email:service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## WWAN+WLAN5G+PPT Simultaneous mode:

| Mode<br>(WWAN+<br>WLAN5G<br>+PPT)  | Position                    | Reported SAR(W/Kg) |              |              |         |              | $\Sigma$ Mix<br>SAR(SAR-to<br>limit)<1 | $\Sigma$<br>SAR<8.0W/kg |
|------------------------------------|-----------------------------|--------------------|--------------|--------------|---------|--------------|----------------------------------------|-------------------------|
|                                    |                             | WWAN               | WLAN<br>5.2G | WLAN<br>5.8G | PPT VHF | PPT UHF      |                                        |                         |
| GSM850+<br>WLAN5G<br>+PTT          | Head Left<br>Check          | <b>0.389</b>       | <b>0.265</b> | 0.212        | N/A     | N/A          | 0.409                                  | 0.654                   |
|                                    | Head Left Tilt              | <b>0.297</b>       | <b>0.225</b> | 0.179        | N/A     | N/A          | 0.326                                  | 0.522                   |
|                                    | Head Right<br>Check         | <b>0.367</b>       | <b>0.242</b> | 0.193        | N/A     | N/A          | 0.381                                  | 0.609                   |
|                                    | Head Right Tilt             | <b>0.292</b>       | <b>0.210</b> | 0.168        | N/A     | N/A          | 0.314                                  | 0.502                   |
|                                    | Face<br>Up(25mm)            | <b>0.061</b>       | <b>0.055</b> | 0.050        | 0.689   | <b>0.778</b> | 0.170                                  | 0.894                   |
|                                    | Body Back<br>with clip(0mm) | <b>0.174</b>       | <b>0.171</b> | 0.159        | 1.409   | <b>1.672</b> | 0.425                                  | 2.017                   |
| PCS1900+<br>WLAN5G<br>+PTT         | Head Left<br>Check          | <b>0.368</b>       | <b>0.265</b> | 0.212        | N/A     | N/A          | 0.396                                  | 0.633                   |
|                                    | Head Left Tilt              | <b>0.273</b>       | <b>0.225</b> | 0.179        | N/A     | N/A          | 0.311                                  | 0.498                   |
|                                    | Head Right<br>Check         | <b>0.337</b>       | <b>0.242</b> | 0.193        | N/A     | N/A          | 0.362                                  | 0.579                   |
|                                    | Head Right Tilt             | <b>0.257</b>       | <b>0.210</b> | 0.168        | N/A     | N/A          | 0.292                                  | 0.467                   |
|                                    | Face<br>Up(25mm)            | <b>0.032</b>       | <b>0.055</b> | 0.050        | 0.689   | <b>0.778</b> | 0.152                                  | 0.865                   |
|                                    | Body Back<br>with clip(0mm) | <b>0.091</b>       | <b>0.171</b> | 0.159        | 1.409   | <b>1.672</b> | 0.373                                  | 1.934                   |
| WCDMA<br>Band 2+<br>WLAN5G<br>+PTT | Head Left<br>Check          | <b>0.354</b>       | <b>0.265</b> | 0.212        | N/A     | N/A          | 0.387                                  | 0.619                   |
|                                    | Head Left Tilt              | <b>0.292</b>       | <b>0.225</b> | 0.179        | N/A     | N/A          | 0.323                                  | 0.517                   |
|                                    | Head Right<br>Check         | <b>0.336</b>       | <b>0.242</b> | 0.193        | N/A     | N/A          | 0.361                                  | 0.578                   |
|                                    | Head Right Tilt             | <b>0.271</b>       | <b>0.210</b> | 0.168        | N/A     | N/A          | 0.301                                  | 0.481                   |
|                                    | Face<br>Up(25mm)            | <b>0.068</b>       | <b>0.055</b> | 0.050        | 0.689   | <b>0.778</b> | 0.174                                  | 0.901                   |
|                                    | Body Back<br>with clip(0mm) | <b>0.179</b>       | <b>0.171</b> | 0.159        | 1.409   | <b>1.672</b> | 0.428                                  | 2.022                   |
| WCDMA<br>Band 5+<br>WLAN5G<br>+PTT | Head Left<br>Check          | <b>0.302</b>       | <b>0.265</b> | 0.212        | N/A     | N/A          | 0.354                                  | 0.567                   |
|                                    | Head Left Tilt              | <b>0.243</b>       | <b>0.225</b> | 0.179        | N/A     | N/A          | 0.293                                  | 0.468                   |
|                                    | Head Right<br>Check         | <b>0.288</b>       | <b>0.242</b> | 0.193        | N/A     | N/A          | 0.331                                  | 0.53                    |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
 400-003-0500  
 www.anbotek.com

|                               |                          |       |       |       |       |       |       |       |
|-------------------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|
|                               | Head Right Tilt          | 0.221 | 0.210 | 0.168 | N/A   | N/A   | 0.269 | 0.431 |
|                               | Face Up(25mm)            | 0.063 | 0.055 | 0.050 | 0.689 | 0.778 | 0.171 | 0.896 |
|                               | Body Back with clip(0mm) | 0.173 | 0.171 | 0.159 | 1.409 | 1.672 | 0.424 | 2.016 |
| LTE band 2+<br>WLAN5G<br>+PTT | Head Left Check          | 0.233 | 0.265 | 0.212 | N/A   | N/A   | 0.311 | 0.498 |
|                               | Head Left Tilt           | 0.178 | 0.225 | 0.179 | N/A   | N/A   | 0.252 | 0.403 |
|                               | Head Right Check         | 0.220 | 0.242 | 0.193 | N/A   | N/A   | 0.289 | 0.462 |
|                               | Head Right Tilt          | 0.175 | 0.210 | 0.168 | N/A   | N/A   | 0.241 | 0.385 |
|                               | Face Up(25mm)            | 0.060 | 0.055 | 0.050 | 0.689 | 0.778 | 0.169 | 0.893 |
|                               | Body Back with clip(0mm) | 0.173 | 0.171 | 0.159 | 1.409 | 1.672 | 0.424 | 2.016 |
| LTE band 4+<br>WLAN5G<br>+PTT | Head Left Check          | 0.269 | 0.265 | 0.212 | N/A   | N/A   | 0.334 | 0.534 |
|                               | Head Left Tilt           | 0.201 | 0.225 | 0.179 | N/A   | N/A   | 0.266 | 0.426 |
|                               | Head Right Check         | 0.236 | 0.242 | 0.193 | N/A   | N/A   | 0.299 | 0.478 |
|                               | Head Right Tilt          | 0.137 | 0.210 | 0.168 | N/A   | N/A   | 0.217 | 0.347 |
|                               | Face Up(25mm)            | 0.068 | 0.055 | 0.050 | 0.689 | 0.778 | 0.174 | 0.901 |
|                               | Body Back with clip(0mm) | 0.278 | 0.171 | 0.159 | 1.409 | 1.672 | 0.490 | 2.121 |
| LTE band 5+<br>WLAN5G<br>+PTT | Head Left Check          | 0.528 | 0.265 | 0.212 | N/A   | N/A   | 0.496 | 0.793 |
|                               | Head Left Tilt           | 0.404 | 0.225 | 0.179 | N/A   | N/A   | 0.393 | 0.629 |
|                               | Head Right Check         | 0.497 | 0.242 | 0.193 | N/A   | N/A   | 0.462 | 0.739 |
|                               | Head Right Tilt          | 0.397 | 0.210 | 0.168 | N/A   | N/A   | 0.379 | 0.607 |
|                               | Face Up(25mm)            | 0.130 | 0.055 | 0.050 | 0.689 | 0.778 | 0.213 | 0.963 |
|                               | Body Back with clip(0mm) | 0.371 | 0.171 | 0.159 | 1.409 | 1.672 | 0.548 | 2.214 |
| LTE band 7+<br>WLAN5G<br>+PTT | Head Left Check          | 0.184 | 0.265 | 0.212 | N/A   | N/A   | 0.281 | 0.449 |
|                               | Head Left Tilt           | 0.143 | 0.225 | 0.179 | N/A   | N/A   | 0.230 | 0.368 |
|                               | Head Right Check         | 0.166 | 0.242 | 0.193 | N/A   | N/A   | 0.255 | 0.408 |
|                               | Head Right Tilt          | 0.125 | 0.210 | 0.168 | N/A   | N/A   | 0.209 | 0.335 |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|                                   |                             |              |              |       |       |              |       |       |
|-----------------------------------|-----------------------------|--------------|--------------|-------|-------|--------------|-------|-------|
|                                   | Face<br>Up(25mm)            | <b>0.077</b> | <b>0.055</b> | 0.050 | 0.689 | <b>0.778</b> | 0.180 | 0.91  |
|                                   | Body Back<br>with clip(0mm) | <b>0.235</b> | <b>0.171</b> | 0.159 | 1.409 | <b>1.672</b> | 0.463 | 2.078 |
| LTE band<br>12+<br>WLAN5G<br>+PTT | Head Left<br>Check          | <b>0.353</b> | <b>0.265</b> | 0.212 | N/A   | N/A          | 0.386 | 0.618 |
|                                   | Head Left Tilt              | <b>0.310</b> | <b>0.225</b> | 0.179 | N/A   | N/A          | 0.334 | 0.535 |
|                                   | Head Right<br>Check         | <b>0.327</b> | <b>0.242</b> | 0.193 | N/A   | N/A          | 0.356 | 0.569 |
|                                   | Head Right Tilt             | <b>0.222</b> | <b>0.210</b> | 0.168 | N/A   | N/A          | 0.270 | 0.432 |
|                                   | Face<br>Up(25mm)            | <b>0.036</b> | <b>0.055</b> | 0.050 | 0.689 | <b>0.778</b> | 0.154 | 0.869 |
|                                   | Body Back<br>with clip(0mm) | <b>0.146</b> | <b>0.171</b> | 0.159 | 1.409 | <b>1.672</b> | 0.407 | 1.989 |
| LTE band<br>17+<br>WLAN5G<br>+PTT | Head Left<br>Check          | <b>0.252</b> | <b>0.265</b> | 0.212 | N/A   | N/A          | 0.323 | 0.517 |
|                                   | Head Left Tilt              | <b>0.234</b> | <b>0.225</b> | 0.179 | N/A   | N/A          | 0.287 | 0.459 |
|                                   | Head Right<br>Check         | <b>0.214</b> | <b>0.242</b> | 0.193 | N/A   | N/A          | 0.285 | 0.456 |
|                                   | Head Right Tilt             | <b>0.208</b> | <b>0.210</b> | 0.168 | N/A   | N/A          | 0.261 | 0.418 |
|                                   | Face<br>Up(25mm)            | <b>0.041</b> | <b>0.055</b> | 0.050 | 0.689 | <b>0.778</b> | 0.157 | 0.874 |
|                                   | Body Back<br>with clip(0mm) | <b>0.128</b> | <b>0.171</b> | 0.159 | 1.409 | <b>1.672</b> | 0.396 | 1.971 |
| LTE band<br>26+<br>WLAN5G<br>+PTT | Head Left<br>Check          | <b>0.213</b> | <b>0.265</b> | 0.212 | N/A   | N/A          | 0.299 | 0.478 |
|                                   | Head Left Tilt              | <b>0.159</b> | <b>0.225</b> | 0.179 | N/A   | N/A          | 0.240 | 0.384 |
|                                   | Head Right<br>Check         | <b>0.187</b> | <b>0.242</b> | 0.193 | N/A   | N/A          | 0.268 | 0.429 |
|                                   | Head Right Tilt             | <b>0.109</b> | <b>0.210</b> | 0.168 | N/A   | N/A          | 0.199 | 0.319 |
|                                   | Face<br>Up(25mm)            | <b>0.043</b> | <b>0.055</b> | 0.050 | 0.689 | <b>0.778</b> | 0.159 | 0.876 |
|                                   | Body Back<br>with clip(0mm) | <b>0.173</b> | <b>0.171</b> | 0.159 | 1.409 | <b>1.672</b> | 0.424 | 2.016 |
| LTE band<br>38+<br>WLAN5G<br>+PTT | Head Left<br>Check          | <b>0.090</b> | <b>0.265</b> | 0.212 | N/A   | N/A          | 0.222 | 0.355 |
|                                   | Head Left Tilt              | <b>0.070</b> | <b>0.225</b> | 0.179 | N/A   | N/A          | 0.184 | 0.295 |
|                                   | Head Right<br>Check         | <b>0.082</b> | <b>0.242</b> | 0.193 | N/A   | N/A          | 0.203 | 0.324 |
|                                   | Head Right Tilt             | <b>0.061</b> | <b>0.210</b> | 0.168 | N/A   | N/A          | 0.169 | 0.271 |
|                                   | Face<br>Up(25mm)            | <b>0.035</b> | <b>0.055</b> | 0.050 | 0.689 | <b>0.778</b> | 0.154 | 0.868 |

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

|                                   |                             |              |              |       |       |              |       |       |
|-----------------------------------|-----------------------------|--------------|--------------|-------|-------|--------------|-------|-------|
|                                   | Up(25mm)                    |              |              |       |       |              |       |       |
|                                   | Body Back<br>with clip(0mm) | <b>0.105</b> | <b>0.171</b> | 0.159 | 1.409 | <b>1.672</b> | 0.382 | 1.948 |
| LTE band<br>41+<br>WLAN5G<br>+PTT | Head Left<br>Check          | <b>0.073</b> | <b>0.265</b> | 0.212 | N/A   | N/A          | 0.211 | 0.338 |
|                                   | Head Left Tilt              | <b>0.064</b> | <b>0.225</b> | 0.179 | N/A   | N/A          | 0.181 | 0.289 |
|                                   | Head Right<br>Check         | <b>0.067</b> | <b>0.242</b> | 0.193 | N/A   | N/A          | 0.193 | 0.309 |
|                                   | Head Right Tilt             | <b>0.046</b> | <b>0.210</b> | 0.168 | N/A   | N/A          | 0.160 | 0.256 |
|                                   | Face<br>Up(25mm)            | <b>0.122</b> | <b>0.055</b> | 0.050 | 0.689 | <b>0.778</b> | 0.208 | 0.955 |
|                                   | Body Back<br>with clip(0mm) | <b>0.356</b> | <b>0.171</b> | 0.159 | 1.409 | <b>1.672</b> | 0.538 | 2.199 |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## WWAN+WLAN Hotspot mode:

## Hotspot SAR for WIFI 2.4G and GSM/WCDMA/ LTE

|             | GSM<br>850 | GSM<br>1900 | WCDMA<br>Band II | WCDMA<br>Band V | LTE<br>Band<br>2 | LTE<br>Band<br>4 | LTE<br>Band<br>5 | LTE<br>Band<br>7 | LTE<br>Band<br>12 | LTE<br>Band<br>17 | LTE<br>Band<br>26 | LTE<br>Band<br>38 | LTE<br>Band<br>41 | WIFI<br>2.4G | MAX.<br>$\Sigma$ SAR <sub>1g</sub> | Peak<br>location<br>separation<br>ratio |
|-------------|------------|-------------|------------------|-----------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------|------------------------------------|-----------------------------------------|
| Rear Side   | 0.205      | 0.107       | 0.211            | 0.203           | 0.203            | 0.327            | <b>0.436</b>     | 0.277            | 0.172             | 0.194             | 0.204             | 0.124             | 0.419             | <b>0.158</b> | <b>0.594</b>                       | N/A                                     |
| Front Side  | 0.135      | 0.070       | 0.150            | 0.139           | 0.134            | 0.152            | <b>0.288</b>     | 0.170            | 0.080             | 0.182             | 0.095             | 0.077             | 0.270             | <b>0.097</b> | 0.385                              | N/A                                     |
| Left Edge   | 0.090      | 0.047       | 0.100            | 0.096           | 0.090            | 0.113            | <b>0.192</b>     | 0.131            | 0.059             | 0.176             | 0.070             | 0.059             | 0.178             | <b>0.054</b> | 0.246                              | N/A                                     |
| Right Edge  | 0.065      | 0.036       | 0.093            | 0.109           | 0.065            | 0.076            | <b>0.139</b>     | 0.116            | 0.040             | 0.179             | 0.047             | 0.052             | 0.133             | <b>0.012</b> | 0.151                              | N/A                                     |
| Top Edge    | 0.117      | 0.061       | 0.120            | 0.105           | 0.116            | 0.117            | <b>0.249</b>     | 0.143            | 0.061             | 0.176             | 0.073             | 0.064             | 0.191             | <b>0.082</b> | 0.331                              | N/A                                     |
| Bottom Edge | N/A        | N/A         | N/A              | N/A             | N/A              | N/A              | N/A              | N/A              | N/A               | N/A               | N/A               | N/A               | N/A               | N/A          | N/A                                | N/A                                     |

MAX.  $\Sigma$ SAR<sub>1g</sub> = **0.594** W/kg < 1.6 W/kg, so the Simultaneous transmission SAR with volume scan are not required for WIFI 2.4G and GSM/WCDMA/LTE

## Hotspot SAR for WIFI 5G and GSM/WCDMA/ LTE

|             | GSM<br>850 | GSM<br>1900 | WCDMA<br>Band V | WCDMA<br>Band II | LTE<br>Band 2 | LTE<br>Band 4 | LTE<br>Band 5 | LTE<br>Band 7 | LTE<br>Band<br>12 | LTE<br>Band<br>17 | LTE<br>Band<br>26 | LTE<br>Band<br>38 | LTE<br>Band<br>41 | WIFI<br>5.2G | WIFI<br>5.8G | MAX.<br>$\Sigma$ SAR <sub>1g</sub> | Peak<br>location<br>separation<br>ratio |
|-------------|------------|-------------|-----------------|------------------|---------------|---------------|---------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------|--------------|------------------------------------|-----------------------------------------|
| Rear Side   | 0.205      | 0.107       | 0.211           | 0.203            | 0.203         | 0.327         | <b>0.436</b>  | 0.277         | 0.172             | 0.194             | 0.204             | 0.124             | 0.419             | <b>0.201</b> | 0.186        | <b>0.637</b>                       | N/A                                     |
| Front Side  | 0.135      | 0.070       | 0.150           | 0.139            | 0.134         | 0.152         | <b>0.288</b>  | 0.170         | 0.080             | 0.182             | 0.095             | 0.077             | 0.270             | 0.124        | <b>0.128</b> | 0.416                              | N/A                                     |
| Left Edge   | 0.090      | 0.047       | 0.100           | 0.096            | 0.090         | 0.113         | <b>0.192</b>  | 0.131         | 0.059             | 0.176             | 0.070             | 0.059             | 0.178             | 0.050        | <b>0.088</b> | 0.28                               | N/A                                     |
| Right Edge  | 0.065      | 0.036       | 0.093           | 0.109            | 0.065         | 0.076         | <b>0.139</b>  | 0.116         | 0.040             | 0.179             | 0.047             | 0.052             | 0.133             | 0.011        | <b>0.029</b> | 0.168                              | N/A                                     |
| Top Edge    | 0.117      | 0.061       | 0.120           | 0.105            | 0.116         | 0.117         | <b>0.249</b>  | 0.143         | 0.061             | 0.176             | 0.073             | 0.064             | 0.191             | <b>0.103</b> | 0.096        | 0.352                              | N/A                                     |
| Bottom Edge | N/A        | N/A         | N/A             | N/A              | N/A           | N/A           | N/A           | N/A           | N/A               | N/A               | N/A               | N/A               | N/A               | N/A          | N/A          | N/A                                | N/A                                     |

MAX.  $\Sigma$ SAR<sub>1g</sub> = **0.637** W/kg < 1.6 W/kg, so the Simultaneous transmission SAR with volume scan are not required for WIFI 5G and GSM/WCDMA/LTE

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## 16. Measurement Uncertainty

| NO                | Source                                             | Uncert.<br>ai (%) | Prob.<br>Dist. | Div.<br>k  | ci<br>(1g) | ci<br>(10g) | Stand.Un<br>cert.<br>ui (1g) | Stand.Un<br>cert.<br>ui (10g) | Veff     |
|-------------------|----------------------------------------------------|-------------------|----------------|------------|------------|-------------|------------------------------|-------------------------------|----------|
| 1                 | Repeat                                             | 0.4               | N              | 1          | 1          | 1           | 0.4                          | 0.4                           | 9        |
| <b>Instrument</b> |                                                    |                   |                |            |            |             |                              |                               |          |
| 2                 | Probe calibration                                  | 7                 | N              | 2          | 1          | 1           | 3.5                          | 3.5                           | $\infty$ |
| 3                 | Axial isotropy                                     | 4.7               | R              | $\sqrt{3}$ | 0.7        | 0.7         | 1.9                          | 1.9                           | $\infty$ |
| 4                 | Hemispherical isotropy                             | 9.4               | R              | $\sqrt{3}$ | 0.7        | 0.7         | 3.9                          | 3.9                           | $\infty$ |
| 5                 | Boundary effect                                    | 1.0               | R              | $\sqrt{3}$ | 1          | 1           | 0.6                          | 0.6                           | $\infty$ |
| 6                 | Linearity                                          | 4.7               | R              | $\sqrt{3}$ | 1          | 1           | 2.7                          | 2.7                           | $\infty$ |
| 7                 | Detection limits                                   | 1.0               | R              | $\sqrt{3}$ | 1          | 1           | 0.6                          | 0.6                           | $\infty$ |
| 8                 | Readout electronics                                | 0.3               | N              | 1          | 1          | 1           | 0.3                          | 0.3                           | $\infty$ |
| 9                 | Response time                                      | 0.8               | R              | $\sqrt{3}$ | 1          | 1           | 0.5                          | 0.5                           | $\infty$ |
| 10                | Integration time                                   | 2.6               | R              | $\sqrt{3}$ | 1          | 1           | 1.5                          | 1.5                           | $\infty$ |
| 11                | Ambient noise                                      | 3.0               | R              | $\sqrt{3}$ | 1          | 1           | 1.7                          | 1.7                           | $\infty$ |
| 12                | Ambient reflections                                | 3.0               | R              | $\sqrt{3}$ | 1          | 1           | 1.7                          | 1.7                           | $\infty$ |
| 13                | Probe positioner mech.<br>restrictions             | 0.4               | R              | $\sqrt{3}$ | 1          | 1           | 0.2                          | 0.2                           | $\infty$ |
| 14                | Probe positioning with<br>respect to phantom shell | 2.9               | R              | $\sqrt{3}$ | 1          | 1           | 1.7                          | 1.7                           | $\infty$ |
| 15                | Max.SAR evaluation                                 | 1.0               | R              | $\sqrt{3}$ | 1          | 1           | 0.6                          | 0.6                           | $\infty$ |

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline  
400-003-0500  
www.anbotek.com

| Test sample related         |                              |                  |     |                                         |      |      |       |       |          |
|-----------------------------|------------------------------|------------------|-----|-----------------------------------------|------|------|-------|-------|----------|
| 16                          | Device positioning           | 3.8              | N   | 1                                       | 1    | 1    | 3.8   | 3.8   | 99       |
| 17                          | Device holder                | 5.1              | N   | 1                                       | 1    | 1    | 5.1   | 5.1   | 5        |
| 18                          | Drift of output power        | 5.0              | R   | $\sqrt{3}$                              | 1    | 1    | 2.9   | 2.9   | $\infty$ |
| Phantom and set-up          |                              |                  |     |                                         |      |      |       |       |          |
| 19                          | Phantom uncertainty          | 4.0              | R   | $\sqrt{3}$                              | 1    | 1    | 2.3   | 2.3   | $\infty$ |
| 20                          | Liquid conductivity (target) | 5.0              | R   | $\sqrt{3}$                              | 0.64 | 0.43 | 1.8   | 1.2   | $\infty$ |
| 21                          | Liquid conductivity (meas)   | 2.5              | N   | 1                                       | 0.64 | 0.43 | 1.6   | 1.2   | $\infty$ |
| 22                          | Liquid Permittivity (target) | 5.0              | R   | $\sqrt{3}$                              | 0.6  | 0.49 | 1.7   | 1.5   | $\infty$ |
| 23                          | Liquid Permittivity (meas)   | 2.5              | N   | 1                                       | 0.6  | 0.49 | 1.5   | 1.2   | $\infty$ |
| Combined standard           |                              |                  | RSS | $U_c = \sqrt{\sum_{i=1}^n C_i^2 U_i^2}$ |      |      | 11.4% | 11.3% | 236      |
| Expanded uncertainty(P=95%) |                              | $U = k U_c$ ,k=2 |     |                                         |      |      | 22.8% | 22.6% |          |

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## Appendix A. EUT Photos and Test Setup Photos

### Handset mode



Left Head Touch



Right Head Touch



Left Head Tilt (15°)



Right Head Tilt (15°)

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com



Body-worn Front Side (10mm)



Body-worn Rear Side (10mm)



Body-worn Left Side (10mm)



Body-worn Right Side (10mm)



Body-worn Top Side (10mm)

**Front of face, the front of the EUT towards phantom (The distance was 25mm)**

**Body-worn, the front of the EUT towards ground  
(The distance was 0mm)**



**Face up (The distance was 25mm)**



**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## Appendix B. Plots of SAR System Check

### System Performance Check at 150 MHz Head TSL

Date: 12/6/2019

DUT: Dipole 150 MHz; Type: D150V2; Serial: 4020

Communication System: VHF; Frequency: 150 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 150$  MHz;  $\sigma = 0.74$  S/m;  $\epsilon_r = 51.22$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 -3337; ConvF(7.96, 7.96, 7.96); Calibrated: 7/23/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (101x161x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.50$  mm

Maximum value of SAR (interpolated) =  $0.521$  mW/g

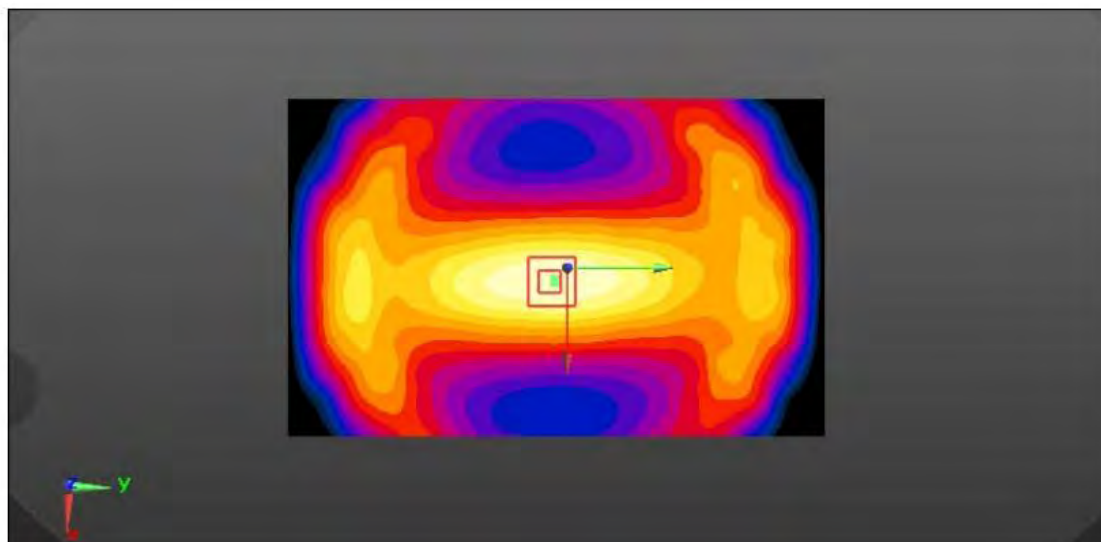
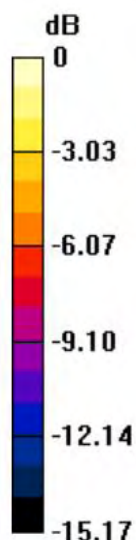
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm

Reference Value =  $24.45$  V/m; Power Drift =  $0.05$  dB

Peak SAR (extrapolated) =  $0.635$  mW/g

**SAR(1 g) =  $0.361$  mW/g; SAR(10 g) =  $0.248$  mW/g**

Maximum value of SAR (measured) =  $0.514$  mW/g



System Performance Check 150MHz Body 1W

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**System Performance Check at 150 MHz Body TSL**

Date: 12/6/2019

DUT: Dipole 150 MHz; Type: D150V2; Serial: 4020

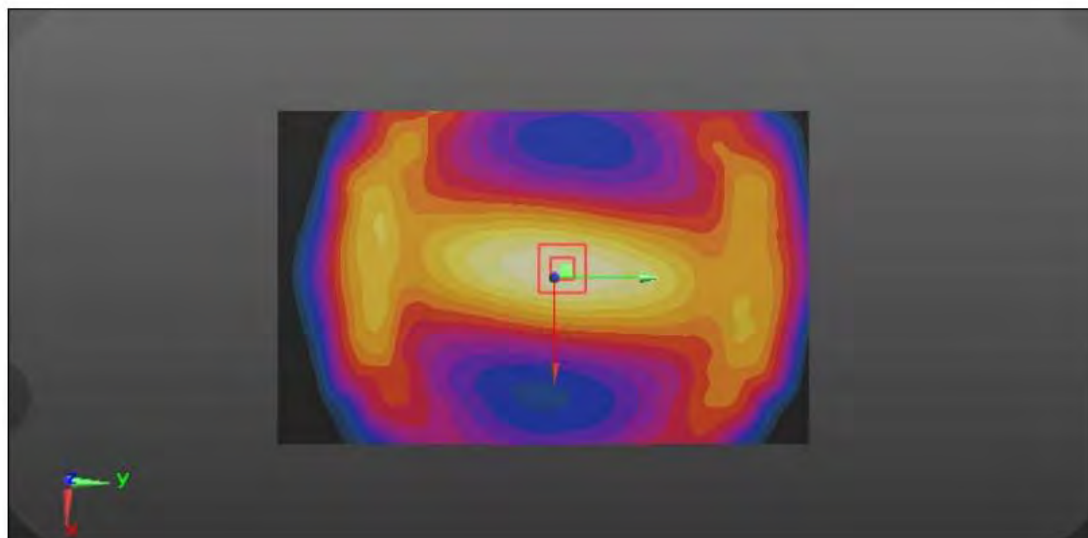
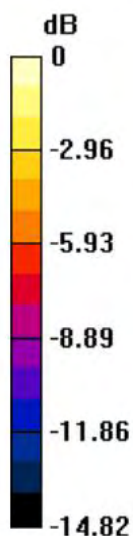
Communication System: VHF; Frequency: 150 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 150 \text{ MHz}$ ;  $\sigma = 0.76 \text{ S/m}$ ;  $\epsilon_r = 61.79$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 -3337; ConvF(7.42, 7.42, 7.42); Calibrated: 7/23/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (101x161x1):** Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.50 \text{ mm}$ Maximum value of SAR (interpolated) =  $0.569 \text{ mW/g}$ **Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5 \text{ mm}$ ,  $dy=5 \text{ mm}$ ,  $dz=5 \text{ mm}$ Reference Value =  $21.74 \text{ V/m}$ ; Power Drift =  $0.03 \text{ dB}$ Peak SAR (extrapolated) =  $0.675 \text{ mW/g}$ **SAR(1 g) =  $0.377 \text{ mW/g}$ ; SAR(10 g) =  $0.265 \text{ mW/g}$** Maximum value of SAR (measured) =  $0.547 \text{ mW/g}$ 

System Performance Check 150MHz Body 1W

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**System Performance Check at 450 MHz Head TSL**

Date: 12/6/2019

DUT: Dipole 450 MHz; Type: D450V2;

Communication System: DuiJiangJi; Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 450$  MHz;  $\sigma = 0.88$  S/m;  $\epsilon_r = 44.38$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 -3337; ConvF(6.99, 6.99, 6.99); Calibrated: 7/23/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**System Performance Check at 450MHz/Area Scan (61x201x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.50$  mm

Maximum value of SAR (interpolated) = 1.49 W/Kg

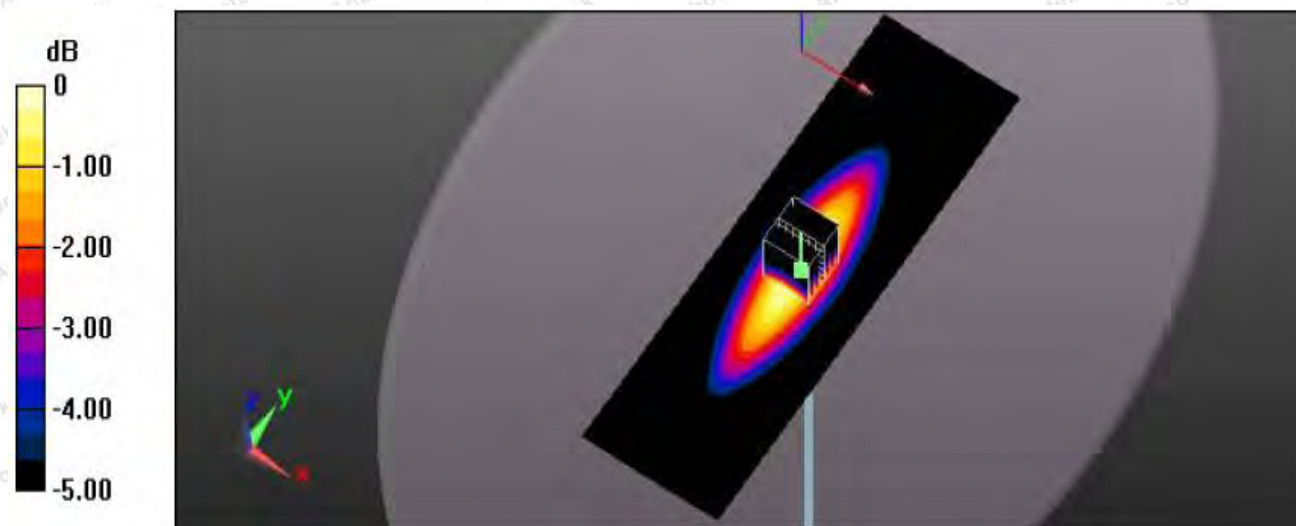
**System Performance Check at 450MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 42.76 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 1.75 W/Kg

**SAR(1 g) = 1.16 W/Kg; SAR(10 g) = 0.790 W/Kg**

Maximum value of SAR (measured) = 1.47 W/Kg



System Performance Check 450MHz Head 250mW

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**System Performance Check at 450 MHz Body TSL**

Date: 12/6/2019

DUT: Dipole 450 MHz; Type: D450V2;

Communication System: DuiJiangJi; Frequency: 450 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 450$  MHz;  $\sigma = 0.96$  S/m;  $\epsilon_r = 57.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 -3337; ConvF(7.09, 7.09, 7.09); Calibrated: 7/23/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**System Performance Check at 450MHz/Area Scan (61x201x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.50$  mm

Maximum value of SAR (interpolated) = 1.44 W/Kg

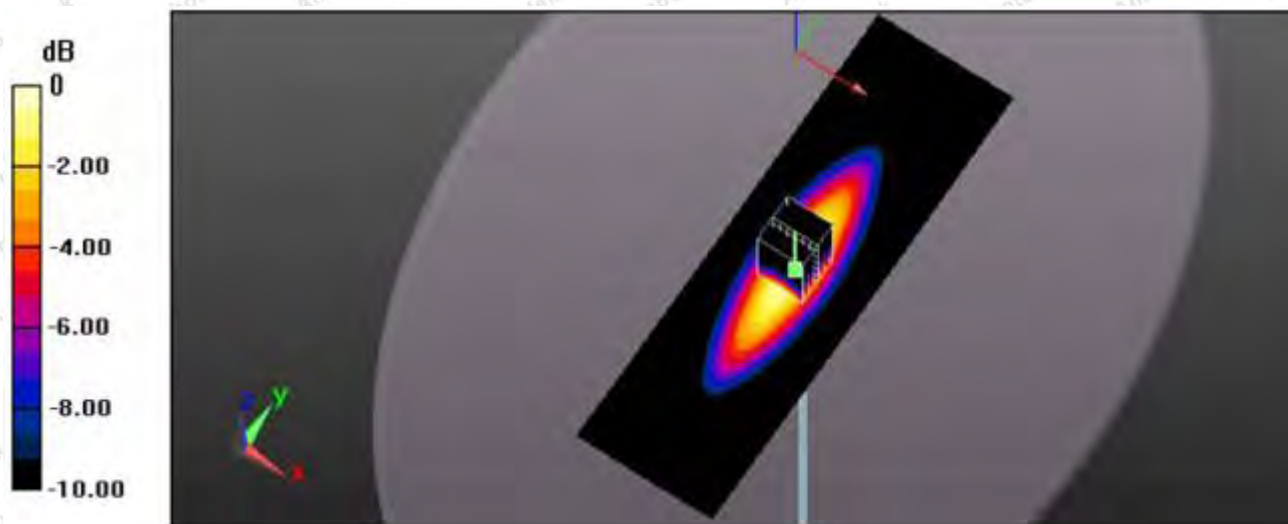
**System Performance Check at 450MHz/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 39.2 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 1.71 W/Kg

**SAR(1 g) = 1.13 W/Kg; SAR(10 g) = 0.757 W/Kg**

Maximum value of SAR (measured) = 1.41 W/Kg



System Performance Check 450MHz Body 250mW

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**System Performance Check at 750 MHz Head**

Date: 12/1/2019

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1163

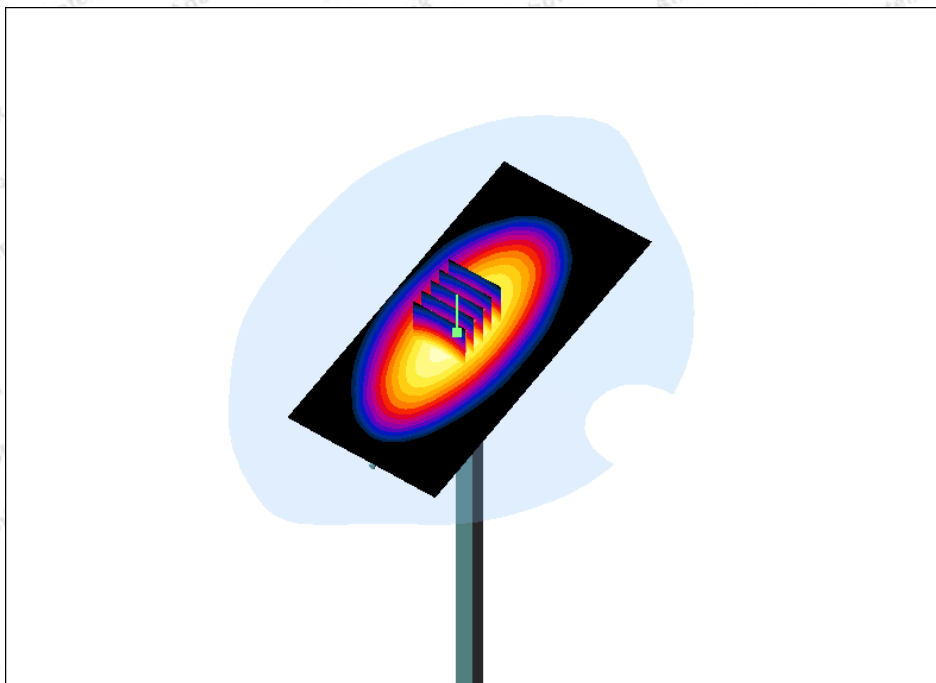
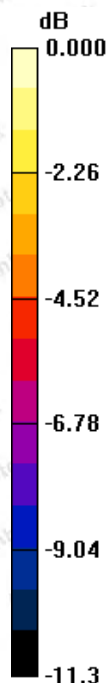
Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f=750\text{MHz}$ ;  $\sigma=0.87\text{ mho/m}$ ;  $\epsilon_r=41.87$ ;  $\rho=1000\text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(9.82, 9.82, 9.82); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x131x1):** Measurement grid:  $dx=15.00\text{ mm}$ ,  $dy=15.00\text{ mm}$ Maximum value of SAR (interpolated) =  $2.03\text{ mW/g}$ **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $47.4\text{ V/m}$ ; Power Drift =  $-0.091\text{ dB}$ Peak SAR (extrapolated) =  $2.96\text{ W/kg}$ **SAR(1 g) =  $2.15\text{mW/g}$ ; SAR(10 g) =  $1.25\text{ mW/g}$** Maximum value of SAR (measured) =  $2.10\text{ mW/g}$ 

System Performance Check 750MHz Head 250mW

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**System Performance Check at 750 MHz Body**

Date: 12/1/2019

DUT: Dipole 750 MHz; Type: D750V3; Serial: 1163

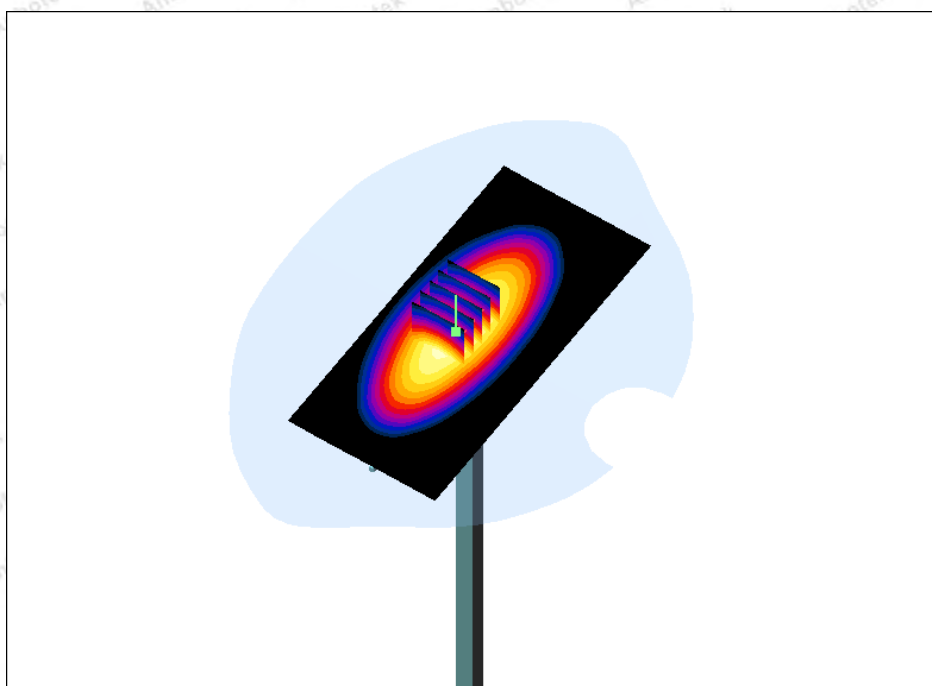
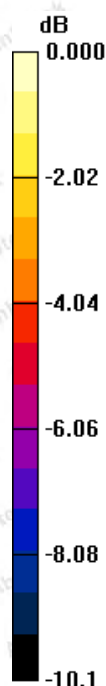
Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used:  $f=750\text{MHz}$ ;  $\sigma=0.94\text{ mho/m}$ ;  $\epsilon_r=55.18$ ;  $\rho=1000\text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(10.09, 10.09, 10.09); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x131x1):** Measurement grid:  $dx=15.00\text{ mm}$ ,  $dy=15.00\text{ mm}$ Maximum value of SAR (interpolated) =  $2.31\text{ mW/g}$ **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $49.1\text{ V/m}$ ; Power Drift =  $-0.141\text{ dB}$ Peak SAR (extrapolated) =  $3.20\text{ W/kg}$ **SAR(1 g) =  $2.22\text{mW/g}$ ; SAR(10 g) =  $1.43\text{ mW/g}$** Maximum value of SAR (measured) =  $2.40\text{ mW/g}$ 

System Performance Check 750MHz Body 250mW

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## System Performance Check at 835 MHz Head

Date: 12/2/2019

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d154

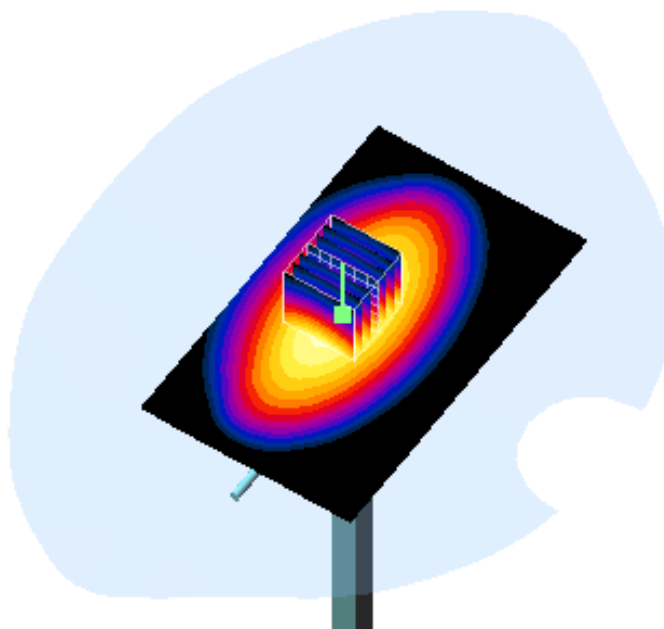
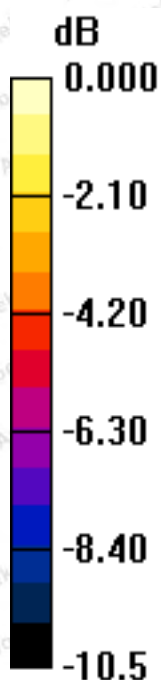
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f=835\text{MHz}$ ;  $\sigma=0.95\text{ mho/m}$ ;  $\epsilon_r=42.32$ ;  $\rho=1000\text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(9.71, 9.71, 9.71); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Area Scan (61x61x1): Measurement grid:  $dx=15.00\text{ mm}$ ,  $dy=15.00\text{ mm}$ Maximum value of SAR (interpolated) =  $2.82\text{ mW/g}$ Zoom Scan (5x5x7)/Cube 0: Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $54.523\text{ V/m}$ ; Power Drift =  $-0.01\text{ dB}$ Peak SAR (extrapolated) =  $4.068\text{ W/kg}$ SAR(1 g) =  $2.32\text{ mW/g}$ ; SAR(10 g) =  $1.68\text{ mW/g}$ Maximum value of SAR (measured) =  $2.90\text{ mW/g}$ 

System Performance Check 835MHz Head 250mW

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**System Performance Check at 835 MHz Body**

Date: 12/2/2019

DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d154

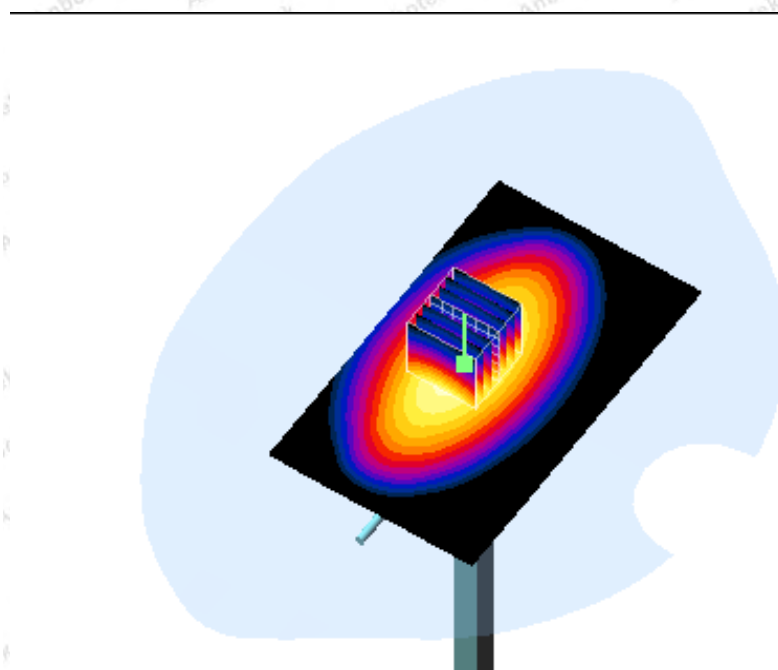
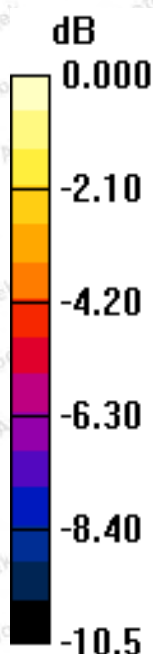
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $f=835\text{MHz}$ ;  $\sigma=0.95\text{ mho/m}$ ;  $\epsilon_r=54.78$ ;  $\rho=1000\text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(9.88, 9.88, 9.88); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x61x1):** Measurement grid:  $dx=15.00\text{ mm}$ ,  $dy=15.00\text{ mm}$ Maximum value of SAR (interpolated) =  $2.72\text{ mW/g}$ **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $54.523\text{ V/m}$ ; Power Drift =  $-0.01\text{ dB}$ Peak SAR (extrapolated) =  $4.068\text{ W/kg}$ **SAR(1 g) =  $2.41\text{ mW/g}$ ; SAR(10 g) =  $1.55\text{ mW/g}$** Maximum value of SAR (measured) =  $2.81\text{ mW/g}$ 

System Performance Check 835MHz Body 250mW

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

### System Performance Check at 1750 MHz Head

Date: 12/3/2019

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1021

Communication System: CW; Frequency: 1750MHz; Duty Cycle: 1:1

Medium parameters used:  $f=1750\text{MHz}$ ;  $\sigma = 1.39 \text{ mho/m}$ ;  $\epsilon_r = 39.84$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(8.61, 8.61, 8.61); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x61x1):** Measurement grid:  $dx=15.00 \text{ mm}$ ,  $dy=15.00 \text{ mm}$

Maximum value of SAR (interpolated) =  $8.60 \text{ mW/g}$

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $83.712 \text{ V/m}$ ; Power Drift =  $0.03\text{dB}$

Peak SAR (extrapolated) =  $16.718 \text{ W/kg}$

**SAR(1 g) =  $9.24\text{mW/g}$ ; SAR(10 g) =  $4.64 \text{ mW/g}$**

Maximum value of SAR (measured) =  $9.95 \text{ mW/g}$



System Performance Check 1750MHz Head 250mW

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com

Hotline  
400-003-0500  
www.anbotek.com

**System Performance Check at 1750 MHz Body**

Date: 12/3/2019

DUT: Dipole 1750 MHz; Type: D1750V2; Serial: 1021

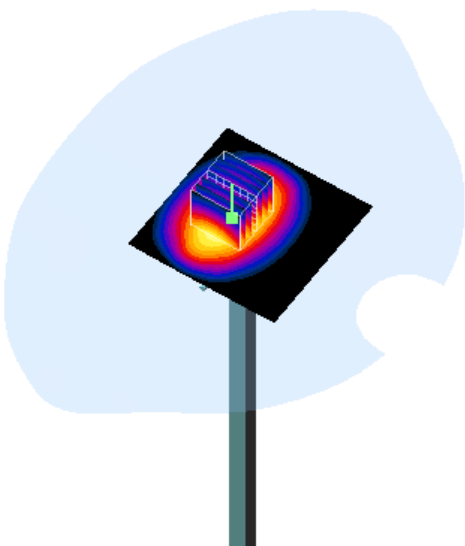
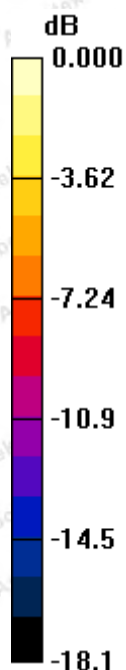
Communication System: CW; Frequency: 1750MHz; Duty Cycle: 1:1

Medium parameters used:  $f=1750\text{MHz}$ ;  $\sigma = 1.46\text{mho/m}$ ;  $\epsilon_r = 54.19$ ;  $\rho = 1000\text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(8.24, 8.24, 8.24); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x61x1):** Measurement grid:  $dx=15.00\text{ mm}$ ,  $dy=15.00\text{ mm}$ Maximum value of SAR (interpolated) =  $12.60\text{ mW/g}$ **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $81.17\text{ V/m}$ ; Power Drift =  $0.03\text{dB}$ Peak SAR (extrapolated) =  $15.81\text{ W/kg}$ **SAR(1 g) =  $9.16\text{mW/g}$ ; SAR(10 g) =  $4.74\text{ mW/g}$** Maximum value of SAR (measured) =  $12.71\text{ mW/g}$ 0 dB =  $12.71\text{mW/g}$ 

System Performance Check 1750MHz Body 250mW

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**System Performance Check at 1900 MHz Head**

Date: 12/3/2019

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d175

Communication System: CW; Frequency: 1900MHz; Duty Cycle: 1:1

Medium parameters used:  $f=1900\text{MHz}$ ;  $\sigma = 1.35 \text{ mho/m}$ ;  $\epsilon_r = 40.15$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(8.13, 8.13, 8.13); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x61x1):** Measurement grid:  $dx=15.00 \text{ mm}$ ,  $dy=15.00 \text{ mm}$ Maximum value of SAR (interpolated) =  $11.3 \text{ mW/g}$ **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $80.6 \text{ V/m}$ ; Power Drift =  $-0.005 \text{ dB}$ Peak SAR (extrapolated) =  $17.5 \text{ W/kg}$ **SAR(1 g) =  $10.12\text{mW/g}$ ; SAR(10 g) =  $5.28\text{mW/g}$** Maximum value of SAR (measured) =  $11.24 \text{ mW/g}$ 

System Performance Check 1900MHz Head 250mW

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**System Performance Check at 1900 MHz Body**

Date: 12/3/2019

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d175

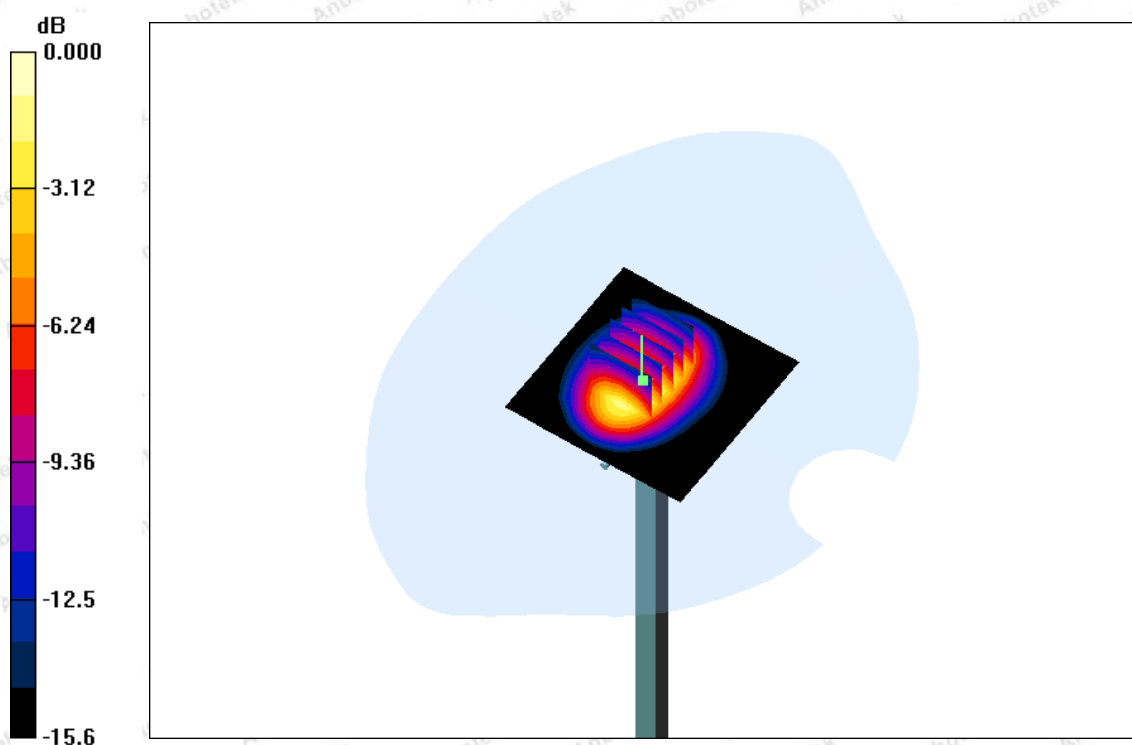
Communication System: CW; Frequency: 1900MHz; Duty Cycle: 1:1

Medium parameters used:  $f=1900\text{MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 53.32$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(7.97, 7.97, 7.97); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x61x1):** Measurement grid:  $dx=15.00 \text{ mm}$ ,  $dy=15.00 \text{ mm}$ Maximum value of SAR (interpolated) =  $12.8 \text{ mW/g}$ **Zoom Scan (5x5x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $85.9 \text{ V/m}$ ; Power Drift =  $0.109 \text{ dB}$ Peak SAR (extrapolated) =  $19.7 \text{ W/kg}$ **SAR(1 g) =  $10.04\text{mW/g}$ ; SAR(10 g) =  $5.39\text{mW/g}$** Maximum value of SAR (measured) =  $12.47\text{mW/g}$ 0 dB =  $12.47\text{mW/g}$ 

System Performance Check 1900MHz Body 250mW

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**System Performance Check at 2450 MHz Head**

Date: 12/4/2019

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 910

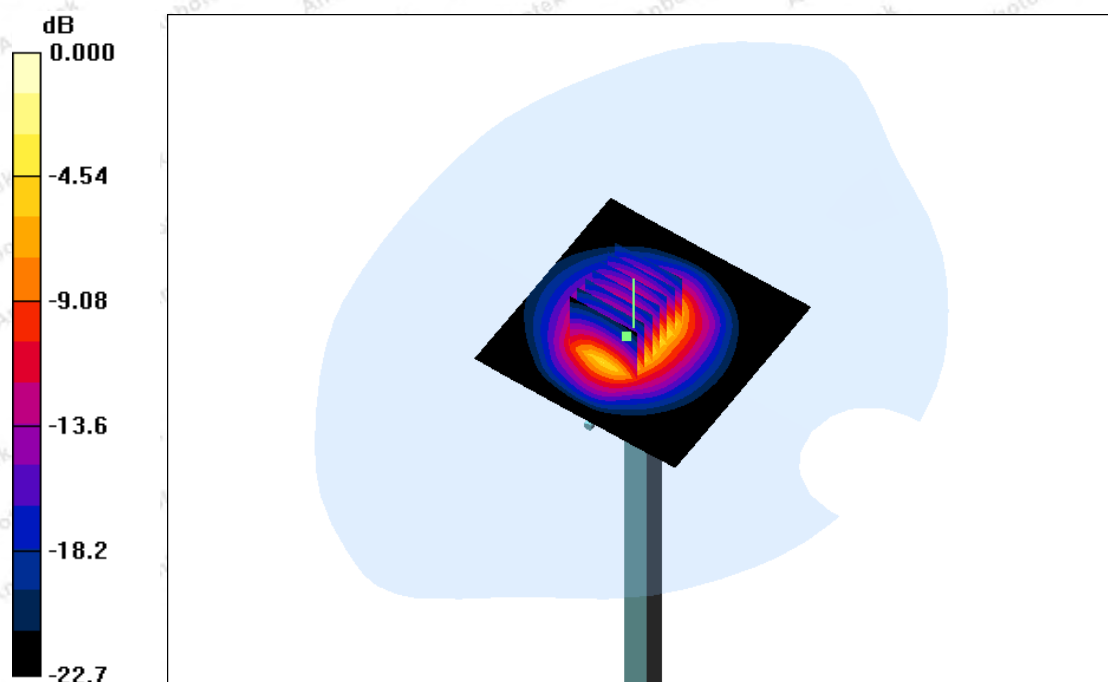
Communication System: CW; Frequency: 2450MHz; Duty Cycle: 1:1

Medium parameters used:  $f=2450\text{MHz}$ ;  $\sigma = 1.76 \text{ mho/m}$ ;  $\epsilon_r = 38.93$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(7.57, 7.57, 7.57); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x61x1):** Measurement grid:  $dx=15.00 \text{ mm}$ ,  $dy=15.00 \text{ mm}$ Maximum value of SAR (interpolated) =  $16.7 \text{ mW/g}$ **Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $87.0 \text{ V/m}$ ; Power Drift =  $0.019 \text{ dB}$ Peak SAR (extrapolated) =  $30.7 \text{ W/kg}$ **SAR(1 g) =  $13.08\text{mW/g}$ ; SAR(10 g) =  $6.24\text{mW/g}$** Maximum value of SAR (measured) =  $16.07\text{mW/g}$ 

System Performance Check 2450MHz Head 250mW

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

### System Performance Check at 2450MHz Body

Date: 12/4/2019

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 910

Communication System: CW; Frequency: 2450MHz; Duty Cycle: 1:1

Medium parameters used:  $f=2450\text{MHz}$ ;  $\sigma = 1.95 \text{ mho/m}$ ;  $\epsilon_r = 50.69$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(7.53, 7.53, 7.53); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x61x1):** Measurement grid:  $dx=15.00 \text{ mm}$ ,  $dy=15.00 \text{ mm}$

Maximum value of SAR (interpolated) =  $16.2 \text{ mW/g}$

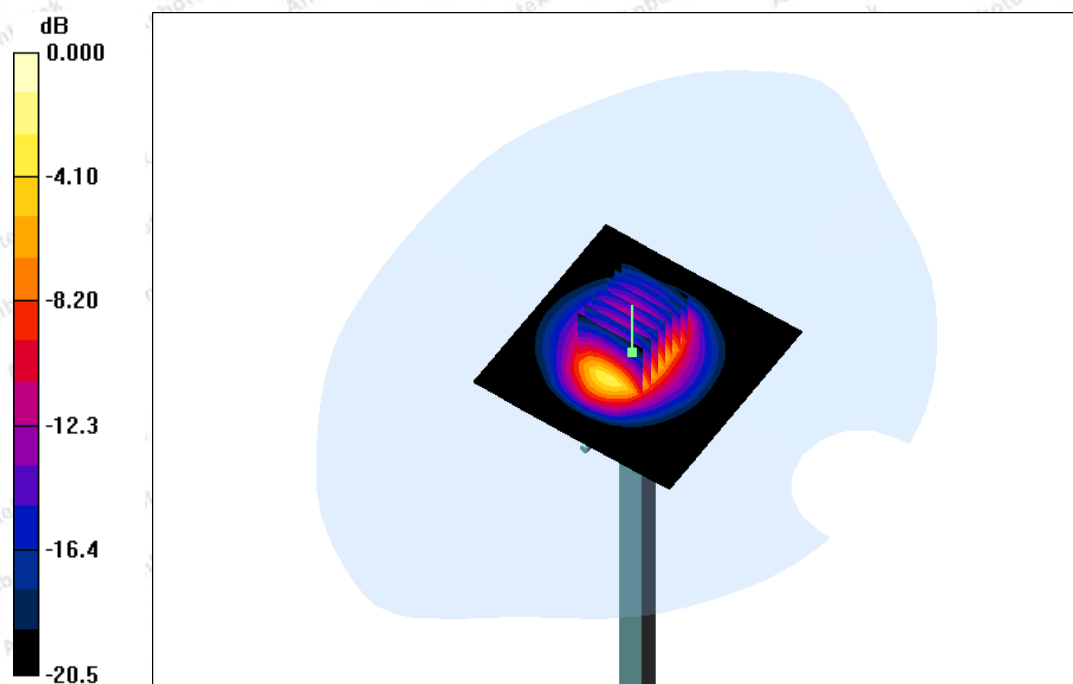
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $89.5 \text{ V/m}$ ; Power Drift =  $0.017 \text{ dB}$

Peak SAR (extrapolated) =  $27.0 \text{ W/kg}$

**SAR(1 g) =  $12.93 \text{ mW/g}$ ; SAR(10 g) =  $6.47 \text{ mW/g}$**

Maximum value of SAR (measured) =  $15.59 \text{ mW/g}$



0 dB =  $15.59 \text{ mW/g}$

System Performance Check 2450MHz Body 250mW

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**System Performance Check at 2600 MHz Head**

Date: 12/4/2019

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1058

Communication System: CW; Frequency: 2600MHz; Duty Cycle: 1:1

Medium parameters used:  $f=2600\text{MHz}$ ;  $\sigma=1.89\text{ mho/m}$ ;  $\epsilon_r=38.55$ ;  $\rho=1000\text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(7.38, 7.38, 7.38); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x61x1):** Measurement grid:  $dx=15.00\text{ mm}$ ,  $dy=15.00\text{ mm}$ Maximum value of SAR (interpolated) =  $21.1\text{ mW/g}$ **Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$ ,  $dz=5\text{mm}$ Reference Value =  $84.1\text{ V/m}$ ; Power Drift =  $0.032\text{ dB}$ Peak SAR (extrapolated) =  $30.2\text{ W/kg}$ **SAR(1 g) =  $14.27\text{mW/g}$ ; SAR(10 g) =  $6.50\text{mW/g}$** Maximum value of SAR (measured) =  $19.73\text{mW/g}$ 

System Performance Check 2600MHz Head 250mW

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**System Performance Check at 2600MHz Body**

Date: 12/4/2019

DUT: Dipole 2600 MHz; Type: D2600V2; Serial: 1058

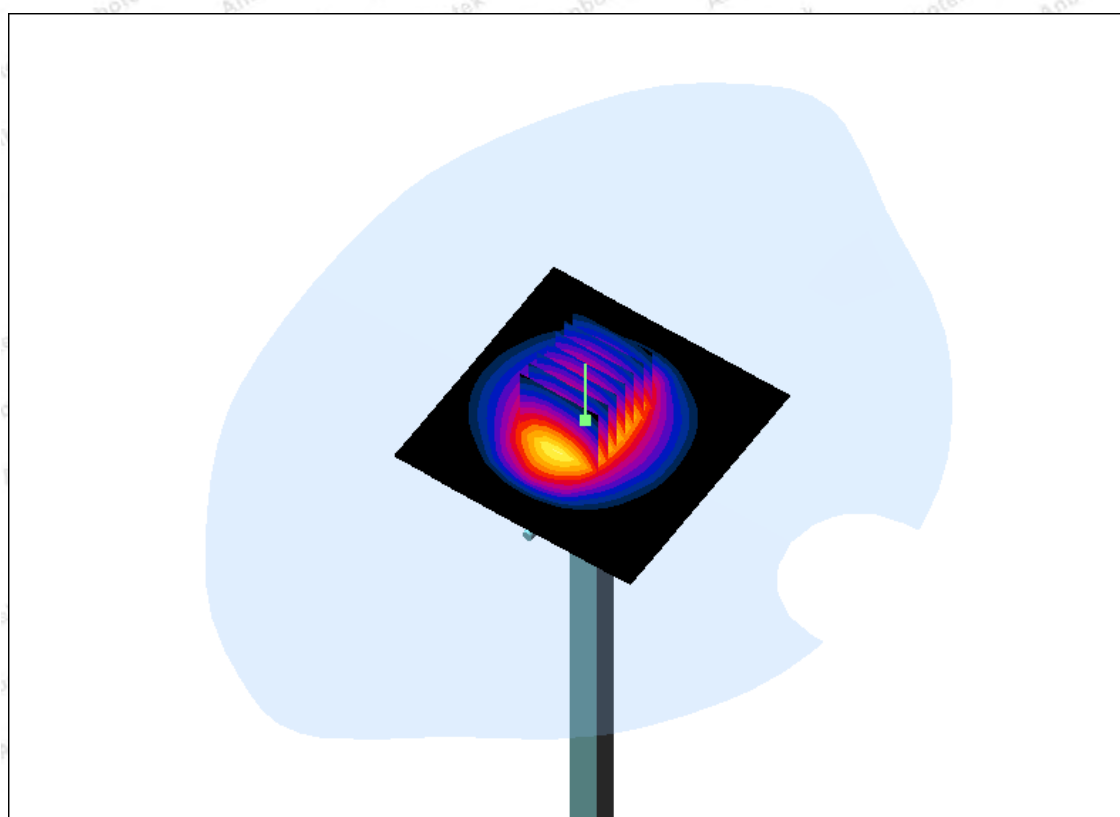
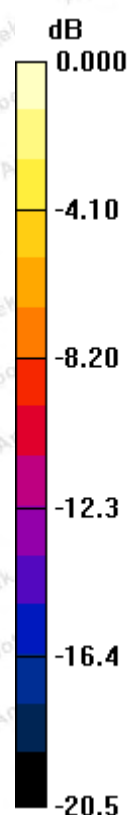
Communication System: CW; Frequency: 2600MHz; Duty Cycle: 1:1

Medium parameters used:  $f=2600\text{MHz}$ ;  $\sigma=2.20\text{ mho/m}$ ;  $\epsilon_r=51.41$ ;  $\rho=1000\text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(7.38, 7.38, 7.38); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x61x1):** Measurement grid:  $dx=15.00\text{ mm}$ ,  $dy=15.00\text{ mm}$ Maximum value of SAR (interpolated) =  $25.1\text{ mW/g}$ **Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=8\text{ mm}$ ,  $dy=8\text{ mm}$ ,  $dz=5\text{ mm}$ Reference Value =  $89.4\text{ V/m}$ ; Power Drift =  $0.018\text{ dB}$ Peak SAR (extrapolated) =  $34.1\text{ W/kg}$ **SAR(1 g) =  $14.22\text{ mW/g}$ ; SAR(10 g) =  $6.39\text{ mW/g}$** Maximum value of SAR (measured) =  $22.98\text{ mW/g}$ 0 dB =  $22.98\text{ mW/g}$ 

System Performance Check 2600MHz Body 250mW

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**System Performance Check at 5250 MHz Head**

Date: 12/5/2019

DUT: Dipole 5200 MHz; Type: D5GHzV2; Serial: 1003

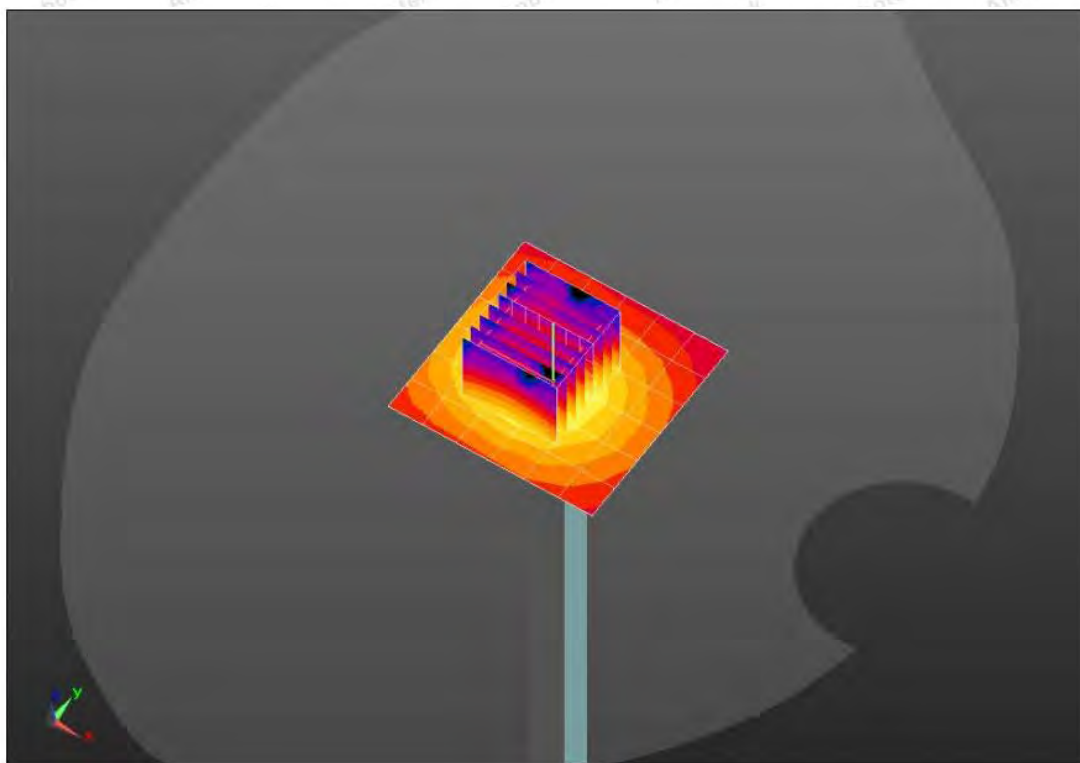
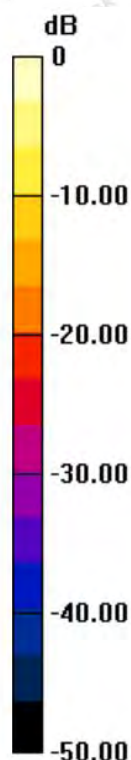
Communication System: CW; Frequency: 5250MHz; Duty Cycle: 1:1

Medium parameters used:  $f=5250\text{MHz}$ ;  $\sigma=4.52\text{ mho/m}$ ;  $\epsilon_r=35.89$ ;  $\rho=1000\text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(5.33, 5.33, 5.33); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x61x1):** Measurement grid:  $dx=10.00\text{ mm}$ ,  $dy=10.00\text{ mm}$ Maximum value of SAR (interpolated) =  $16.3\text{mW/g}$ **Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ Reference Value =  $52.96\text{ V/m}$ ; Power Drift =  $0.15\text{ dB}$ Peak SAR (extrapolated) =  $33.9\text{ W/kg}$ **SAR(1 g) =  $8.04\text{mW/g}$ ; SAR(10 g) =  $2.40\text{mW/g}$** Maximum value of SAR (measured) =  $18.9\text{mW/g}$ 

System Performance Check 5250MHz Head 100mW

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**System Performance Check at 5250 MHz Body**

Date: 12/5/2019

DUT: Dipole 5200 MHz; Type: D5GHzV2; Serial: 1003

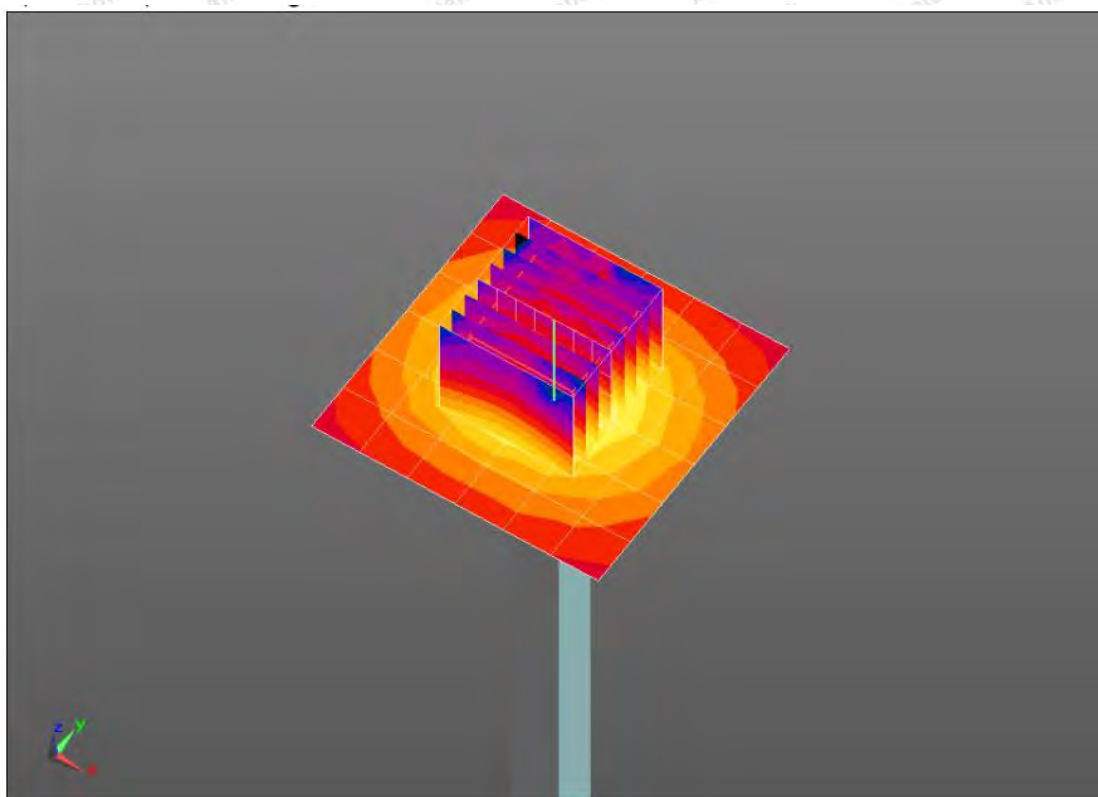
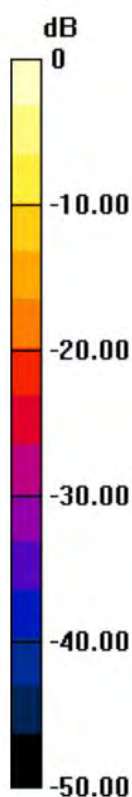
Communication System: CW; Frequency: 5250MHz; Duty Cycle: 1:1

Medium parameters used:  $f=5250\text{MHz}$ ;  $\sigma=5.38\text{ mho/m}$ ;  $\epsilon_r=47.90$ ;  $\rho=1000\text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(4.93, 4.93, 4.93); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x61x1):** Measurement grid:  $dx=10.00\text{ mm}$ ,  $dy=10.00\text{ mm}$ Maximum value of SAR (interpolated) =  $18.4\text{mW/g}$ **Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ Reference Value =  $53.33\text{ V/m}$ ; Power Drift =  $0.05\text{ dB}$ Peak SAR (extrapolated) =  $28.30\text{ W/kg}$ **SAR(1 g) =  $7.37\text{mW/g}$ ; SAR(10 g) =  $2.09\text{mW/g}$** Maximum value of SAR (measured) =  $17.1\text{mW/g}$ 

System Performance Check 5250MHz Body 100mW

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**System Performance Check at 5750 MHz Head**

Date: 12/5/2019

DUT: Dipole 5750 MHz; Type: D5GHzV2; Serial: 1003

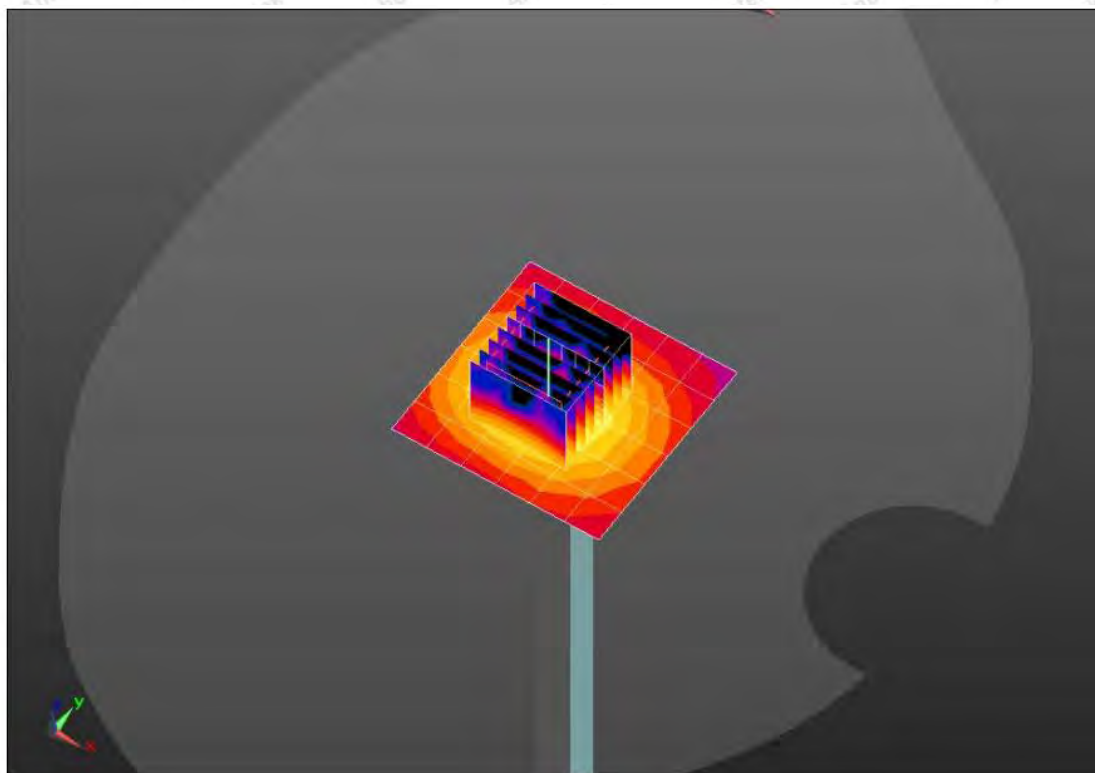
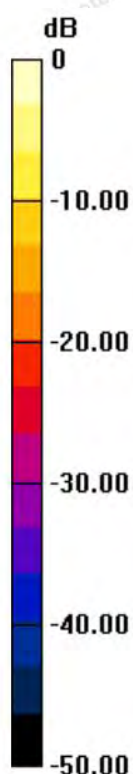
Communication System: CW; Frequency: 5750MHz; Duty Cycle: 1:1

Medium parameters used:  $f=5750\text{MHz}$ ;  $\sigma=5.24\text{ mho/m}$ ;  $\epsilon_r=35.21$ ;  $\rho=1000\text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(4.92, 4.92, 4.92); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x61x1):** Measurement grid:  $dx=10.00\text{ mm}$ ,  $dy=10.00\text{ mm}$ Maximum value of SAR (interpolated) =  $18.5\text{mW/g}$ **Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ Reference Value =  $53.69\text{ V/m}$ ; Power Drift =  $0.09\text{dB}$ Peak SAR (extrapolated) =  $38.3\text{W/kg}$ **SAR(1 g) =  $8.42\text{mW/g}$ ; SAR(10 g) =  $2.48\text{mW/g}$** Maximum value of SAR (measured) =  $21.7\text{mW/g}$ 

System Performance Check 5750MHz Head 100mW

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**System Performance Check at 5750 MHz Body**

Date: 12/5/2019

DUT: Dipole 5750 MHz; Type: D5GHzV2; Serial: 1003

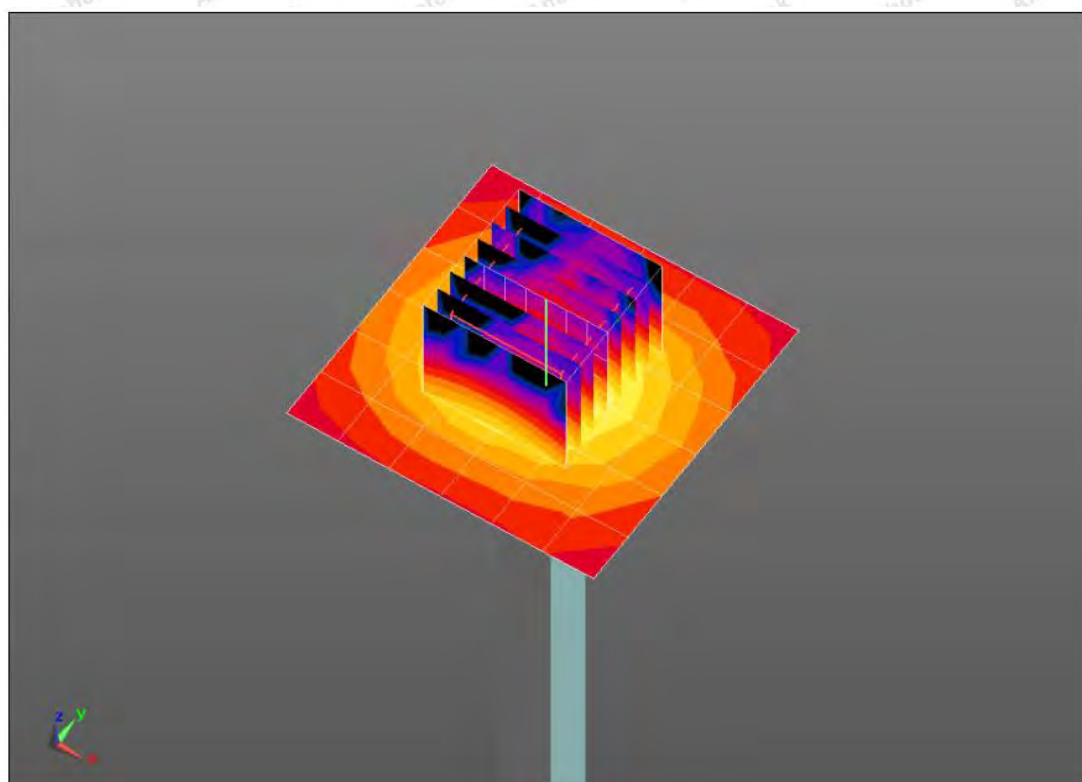
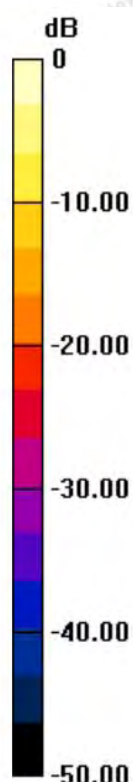
Communication System: CW; Frequency: 5750MHz; Duty Cycle: 1:1

Medium parameters used:  $f=5750\text{MHz}$ ;  $\sigma=5.82\text{ mho/m}$ ;  $\epsilon_r=49.04$ ;  $\rho=1000\text{ kg/m}^3$ 

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(4.52, 4.52, 4.52); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x61x1):** Measurement grid:  $dx=10.00\text{ mm}$ ,  $dy=10.00\text{ mm}$ Maximum value of SAR (interpolated) =  $20.6\text{mW/g}$ **Zoom Scan (8x8x7)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=1.4\text{mm}$ Reference Value =  $53.28\text{ V/m}$ ; Power Drift =  $0.06\text{dB}$ Peak SAR (extrapolated) =  $33.9\text{W/kg}$ **SAR(1 g) =  $7.65\text{mW/g}$ ; SAR(10 g) =  $2.25\text{mW/g}$** Maximum value of SAR (measured) =  $19.5\text{mW/g}$ 

System Performance Check 5750MHz Head 100mW

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## Appendix C. Plots of SAR Test Data

SAR plots for the **highest measured SAR** in each exposure configuration, wireless mode and frequency band combination according to FCC KDB 865664 D02

### GSM850\_GSM Voice\_Left Cheek

Communication System: Customer System; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used (interpolated):  $f=836.6$  MHz;  $\sigma=0.91$  S/m;  $\epsilon_r=41.48$ ;  $\rho=1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4-7396; ConvF(9.71, 9.71, 9.71); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x101x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.373 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm

Reference Value = 12.836 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 0.458 mW/g

**SAR(1 g) = 0.367 mW/g; SAR(10 g) = 0.270 mW/g**

Maximum value of SAR (measured) = 0.388 W/kg

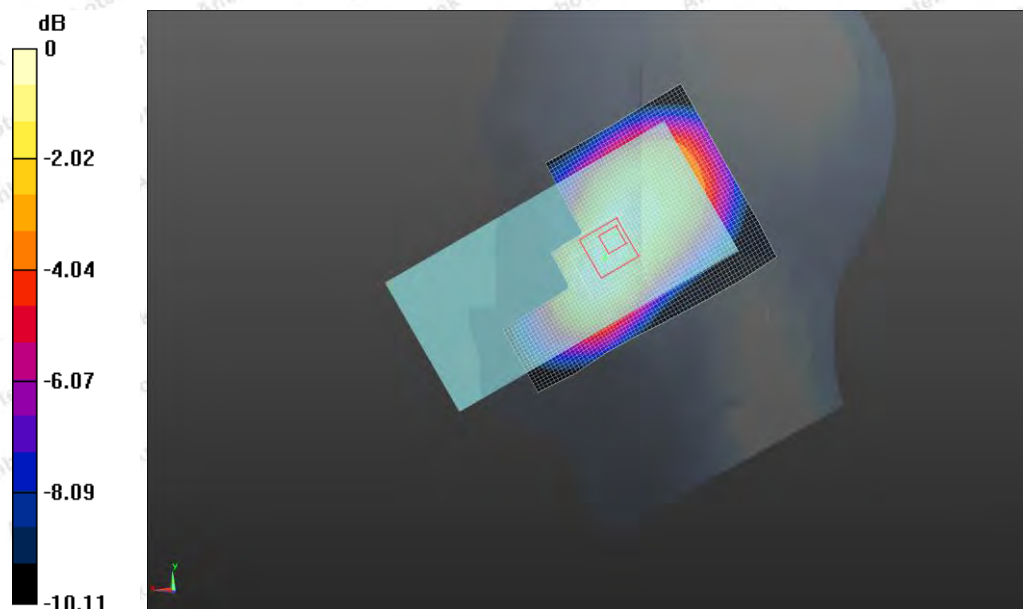


Figure 1: GSM850\_GSM Voice

### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com

Hotline  
400-003-0500  
www.anbotek.com

**GSM1900\_GSM Voice\_Left Cheek**

Date: 12/3/2019

Communication System: GSM1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.405$  mho/m;  $\epsilon_r = 39.62$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(8.13, 8.13, 8.13); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x111x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.307 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 3.151 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 0.424 mW/g

**SAR(1 g) = 0.284 mW/g; SAR(10 g) = 0.180 mW/g**

Maximum value of SAR (measured) = 0.297 W/kg

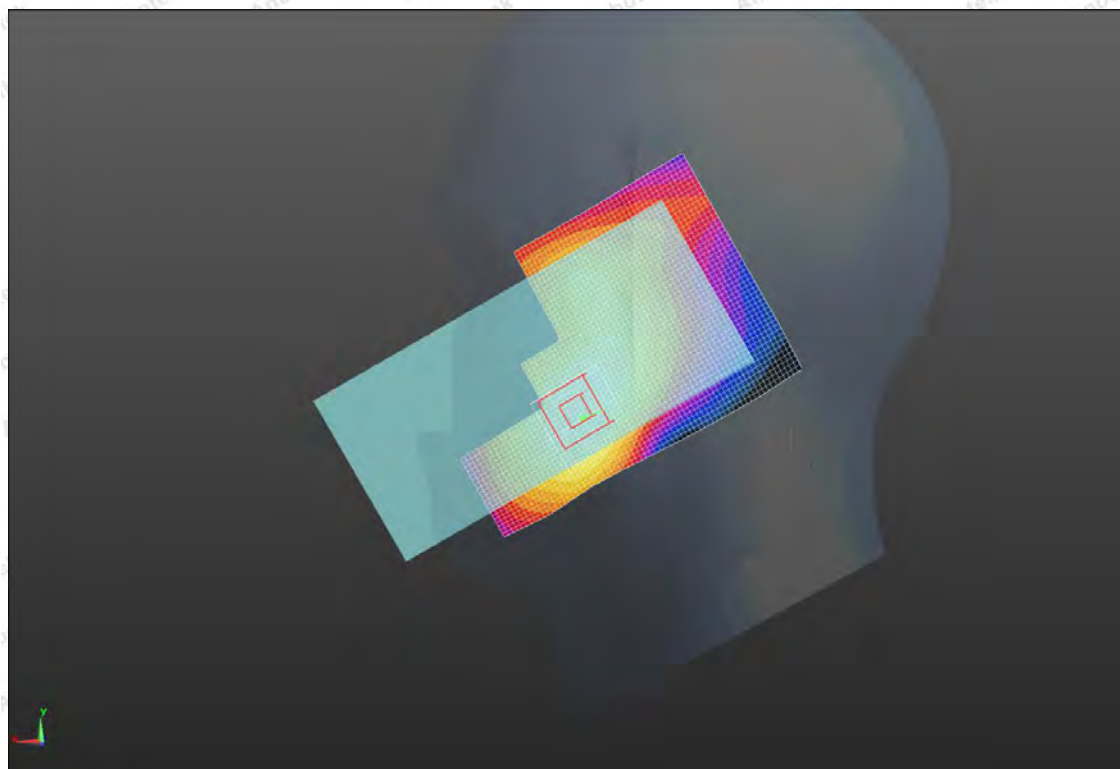
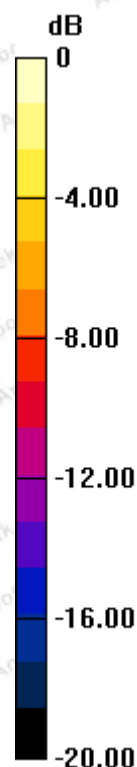


Figure 2: GSM1900\_GSM Voice\_Left Cheek

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## WCDMA Band II\_RCM\_Left Check

Date: 12/3/2019

Communication System: W1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.36$  mho/m;  $\epsilon_r = 39.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4-7396; ConvF(8.13, 8.13, 8.13); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.293 W/kg

Zoom Scan (5x5x6)/Cube 0: Measurement grid: dx=7mm, dy=7mm, dz=5mm

Reference Value = 11.125 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.336 mW/g

SAR(1 g) = 0.272 mW/g; SAR(10 g) = 0.186 mW/g

Maximum value of SAR (measured) = 0.286 W/kg

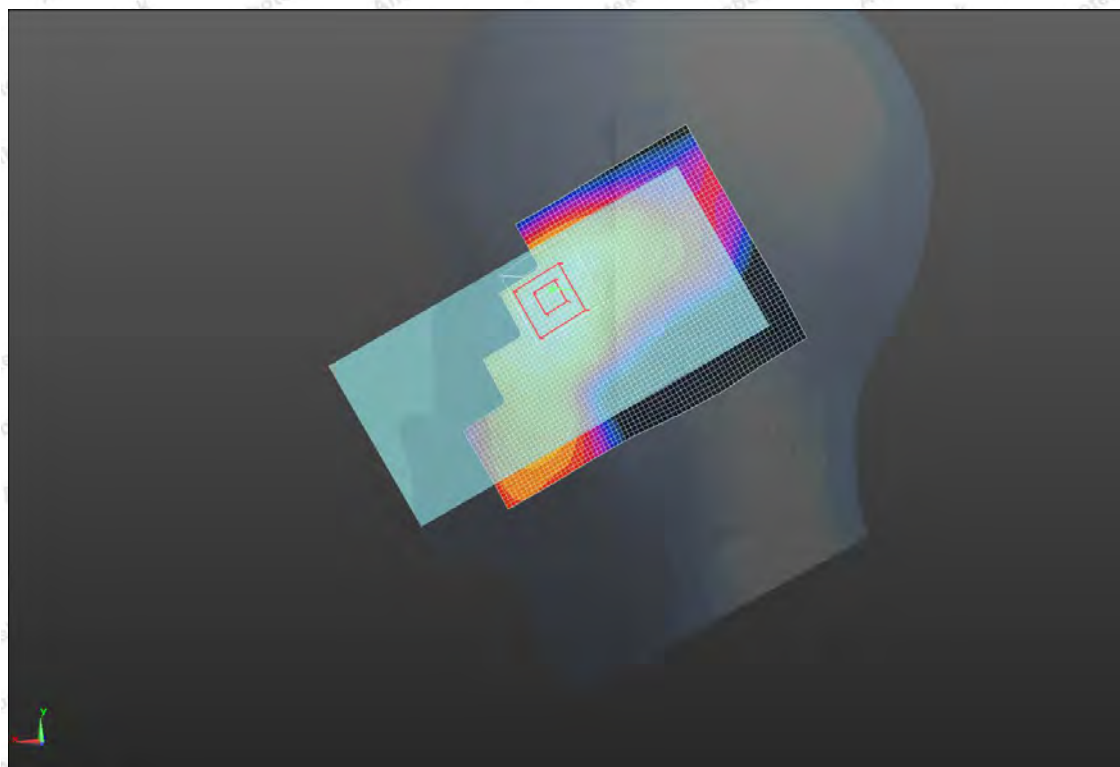
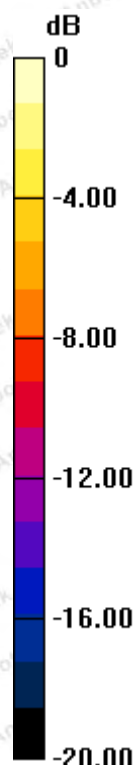


Figure 3: WCDMA Band II\_RCM\_Left Check

Date: 12/2/2019

Communication System: W850; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 837$  MHz;  $\sigma = 0.898$  mho/m;  $\epsilon_r = 41.4$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(9.71, 9.71, 9.71); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (51x101x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.288 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 6.437 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.309 mW/g

**SAR(1 g) = 0.264 mW/g; SAR(10 g) = 0.205 mW/g**

Maximum value of SAR (measured) = 0.273 W/kg

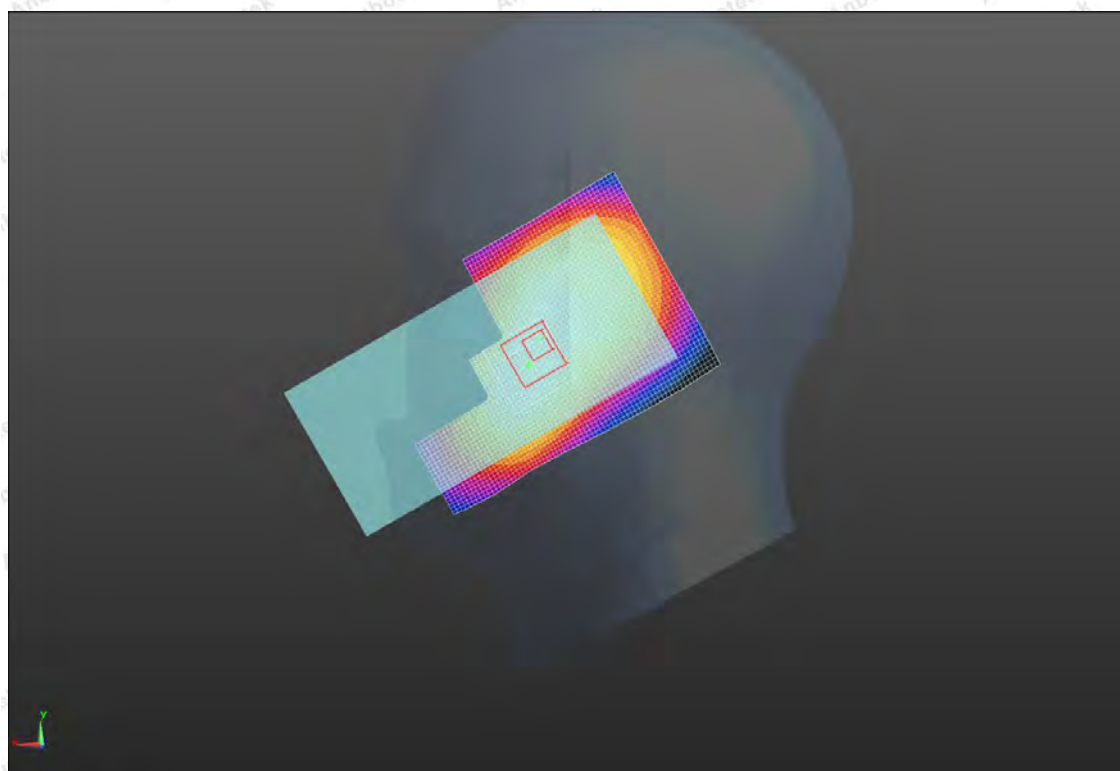
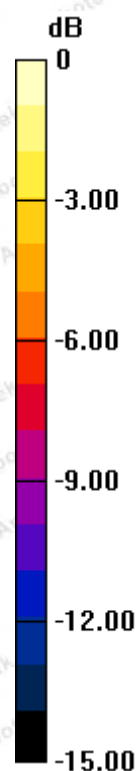


Figure 4: WCDMA Band V

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## LTE Band 2\_QPSK\_Left Check

Date: 12/3/2019

Communication System: Customer System; Frequency: 1880.0 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f=1880.0$  MHz;  $\sigma=1.41$  mho/m;  $\epsilon=40.01$ ;  $\rho=1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4-7396; ConvF(8.13, 8.13, 8.13); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Area Scan (51x101x1): Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.217 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid:  $dx=8$  mm,  $dy=8$  mm,  $dz=5$  mm

Reference Value = 3.369 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.304 mW/g

SAR(1 g) = 0.197 mW/g; SAR(10 g) = 0.123 mW/g

Maximum value of SAR (measured) = 0.214 W/kg

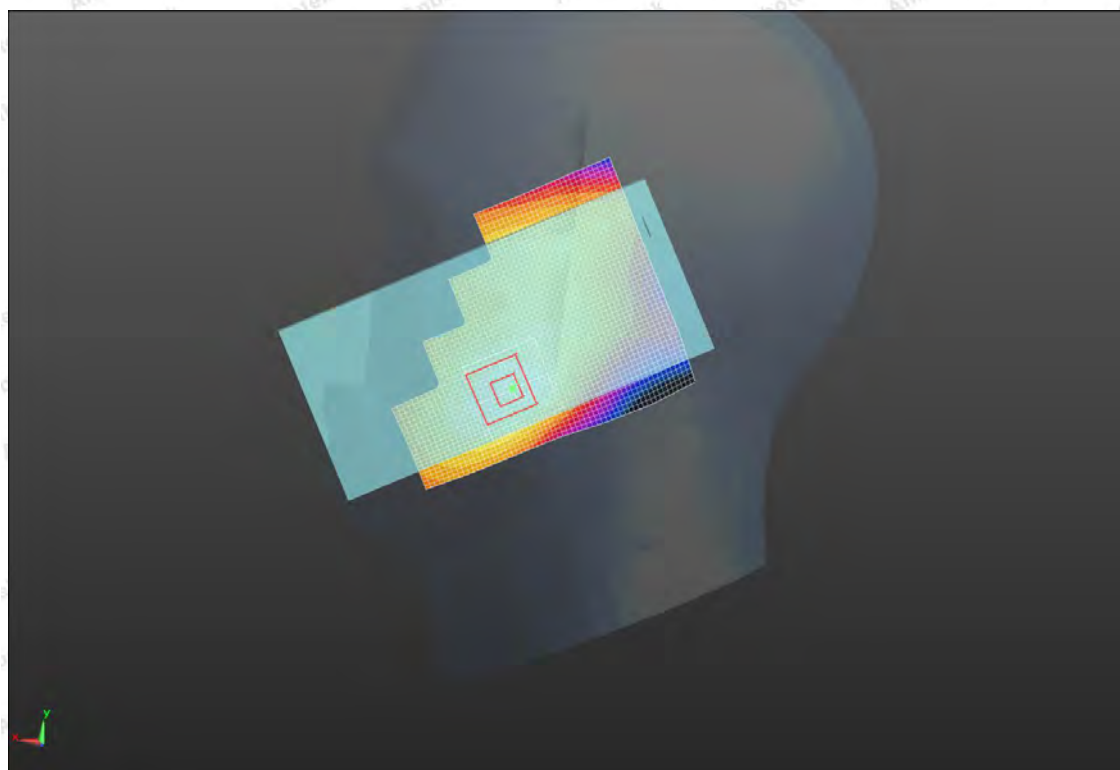
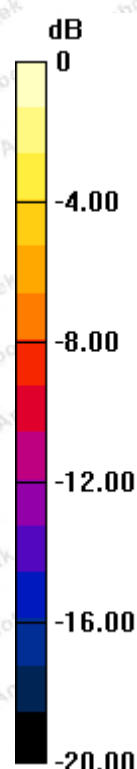


Figure 5: LTE Band 2\_QPSK\_Left Check

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**LTE Band 4\_QPSK\_Left Check**

Date: 12/3/2019

Communication System: LTE B4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1732.5$  MHz;  $\sigma = 1.34$  mho/m;  $\epsilon_r = 41.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(8.61, 8.61, 8.61); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (51x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.256 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.178 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.330 mW/g

**SAR(1 g) = 0.221 mW/g; SAR(10 g) = 0.145 mW/g**

Maximum value of SAR (measured) = 0.243 W/kg

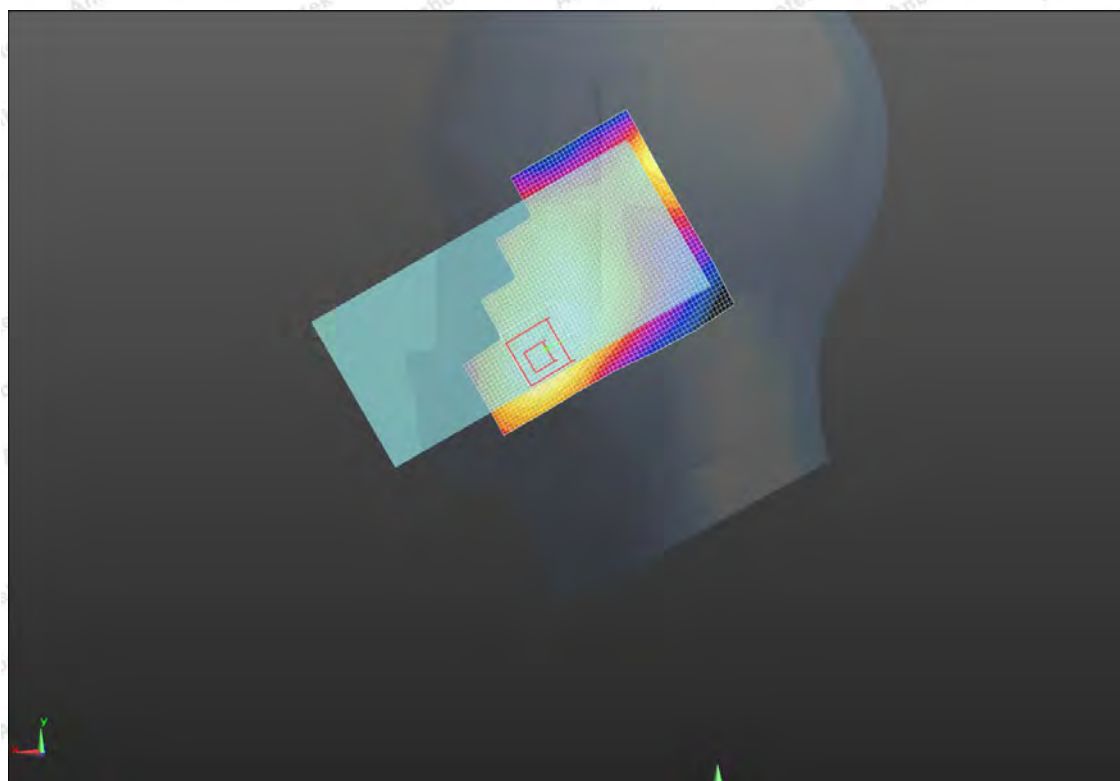
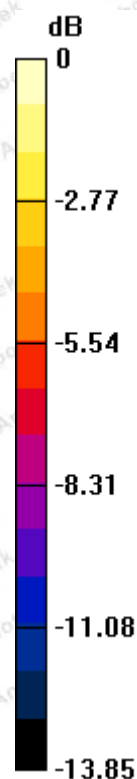


Figure 6: LTE Band 4\_QPSK\_Left Check

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**LTE Band 5\_QPSK\_Left Check**

Date: 12/2/2019

Communication System: Customer System; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 1.91$  mho/m;  $\epsilon_r = 41.48$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(9.71, 9.71, 9.71); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (51x101x1):** Interpolated grid:  $dx = 1.500$  mm,  $dy = 1.500$  mm

Maximum value of SAR (interpolated) = 0.563 mW/g

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx = 5$  mm,  $dy = 5$  mm,  $dz = 5$  mm

Reference Value = 16.795 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.701 mW/g

**SAR(1 g) = 0.445 mW/g; SAR(10 g) = 0.328 mW/g**

Maximum value of SAR (measured) = 0.559 W/kg

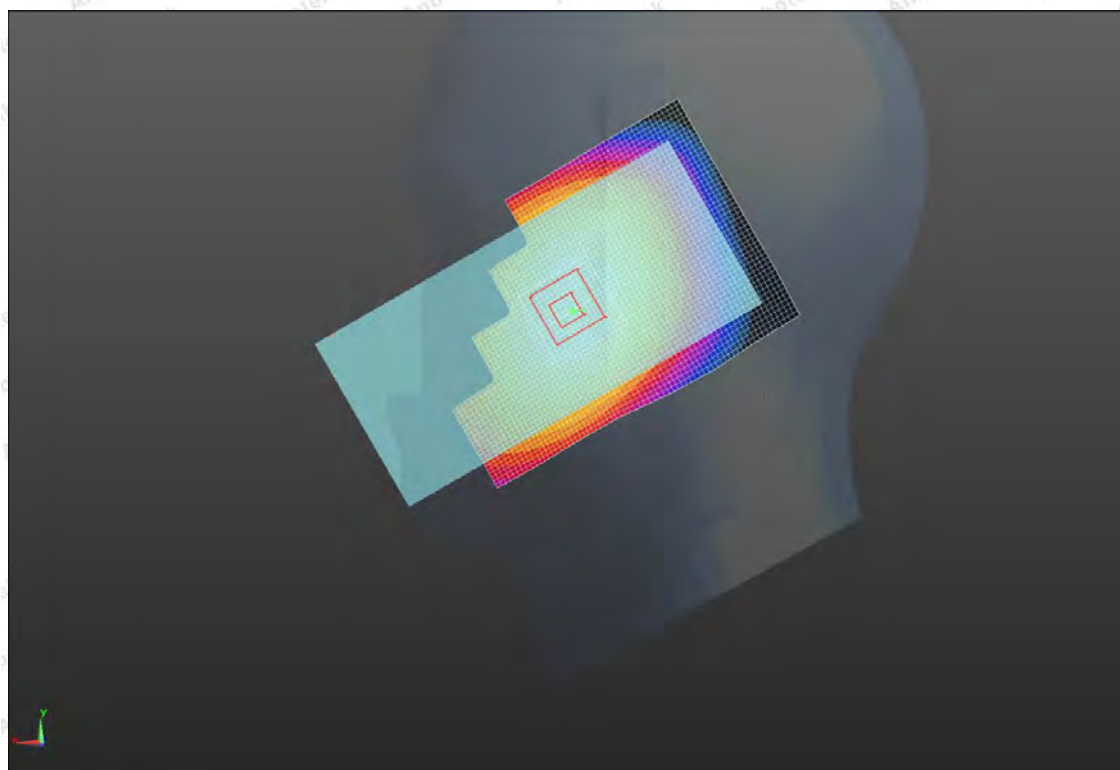
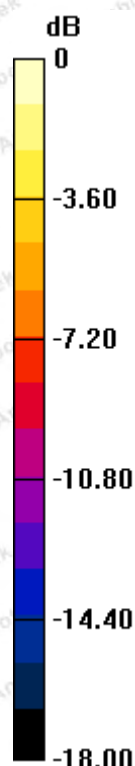


Figure 7: LTE Band 5\_QPSK\_Left Check

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**LTE Band 7\_QPSK**

Date: 12/4/2019

Communication System: Customer System; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f=2535$  MHz;  $\sigma=1.77$  S/m;  $\epsilon_r=39.37$ ;  $\rho=1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(7.38, 7.38, 7.38); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (51x101x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.182 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm

Reference Value = 1.380 V/m; Power Drift = 0.12 dB

Peak SAR (extrapolated) = 0.301 mW/g

**SAR(1 g) = 0.168 mW/g; SAR(10 g) = 0.095 mW/g**

Maximum value of SAR (measured) = 0.181 W/kg

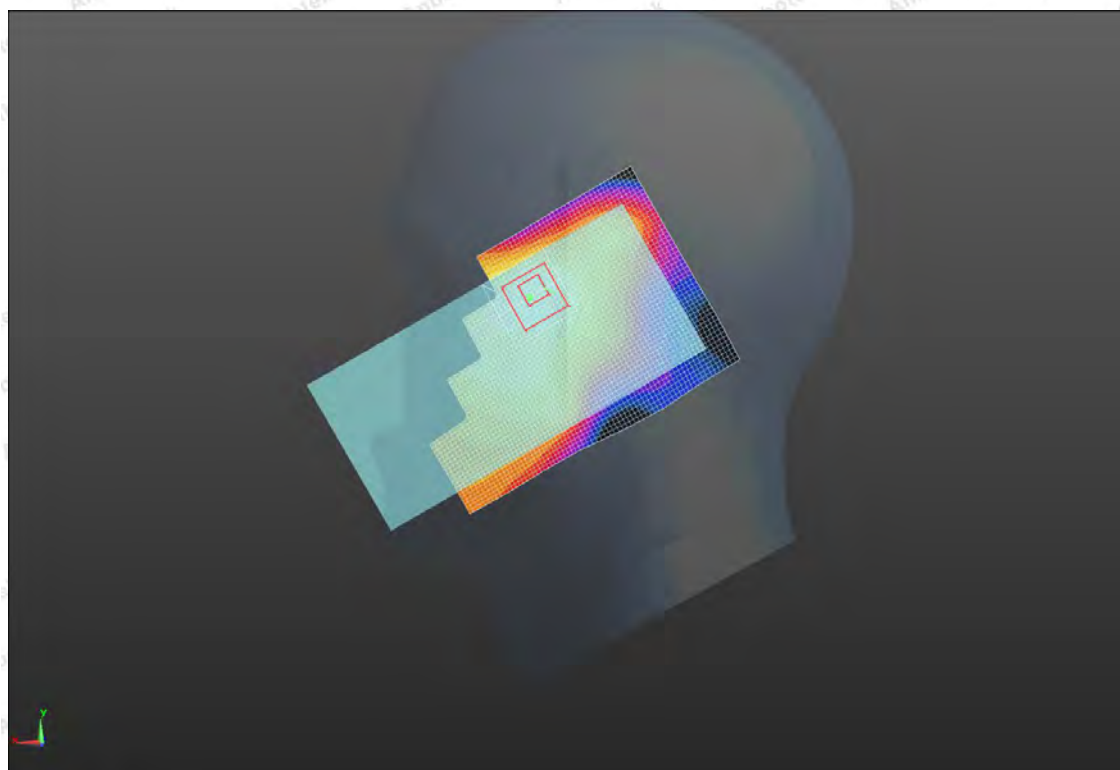
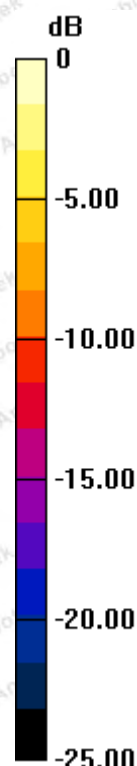


Figure 8: LTE Band 7\_QPSK

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## LTE Band 12\_QPSK\_Right Check

Date: 12/1/2019

Communication System: Generic LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 707.5$  MHz;  $\sigma = 0.86$  mho/m;  $\epsilon_r = 42.412$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section

DASY5 Configuration:

- Probe: EX3DV4-7396; ConvF(9.82, 9.82, 9.82); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Area Scan (51x101x1): Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.335 mW/g

Zoom Scan (7x7x7)/Cube 0: Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.964 V/m; Power Drift = 0.16 dB

Peak SAR (extrapolated) = 0.455 mW/g

SAR(1 g) = 0.298 mW/g; SAR(10 g) = 0.210 mW/g

Maximum value of SAR (measured) = 0.324 mW/g

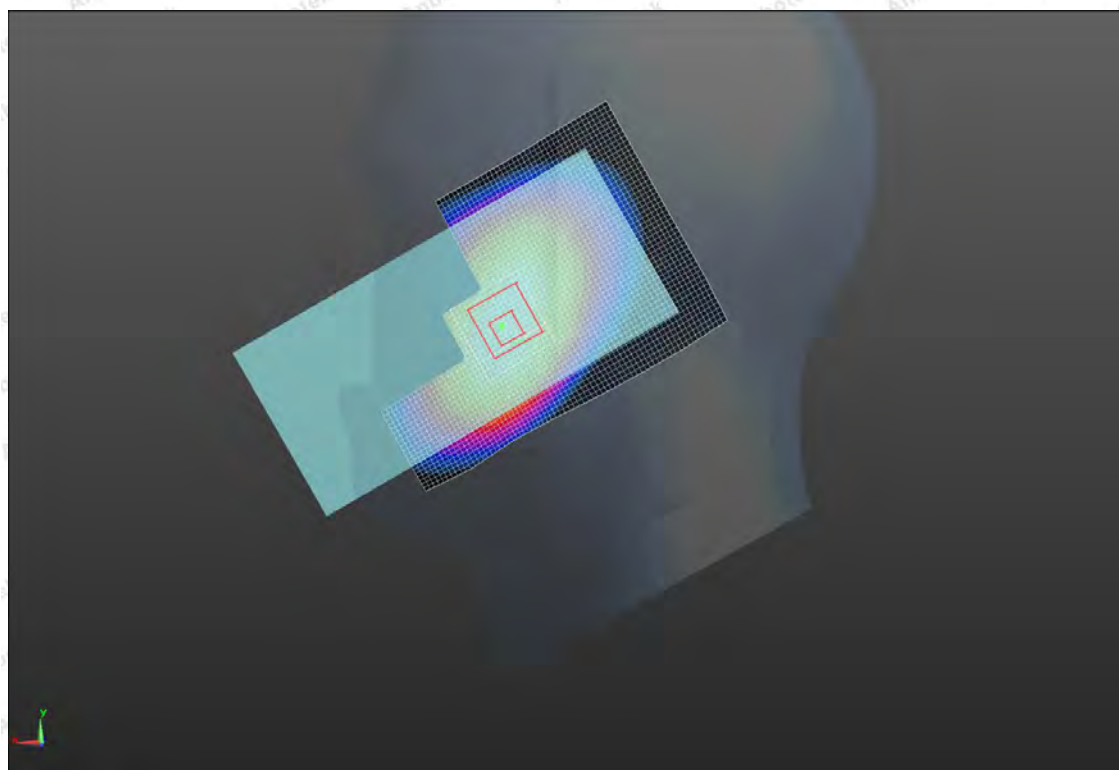
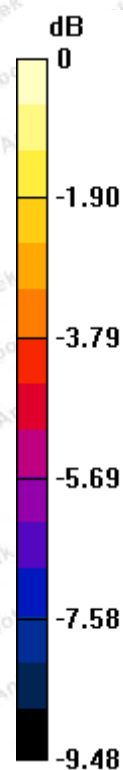


Figure 9: LTE Band 12\_QPSK\_Right Check

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**LTE Band 17\_QPSK\_Right Check**

Date: 12/1/2019

Communication System: Generic LTE; Frequency: 710.0 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 710.0$  MHz;  $\sigma = 0.925$  S/m;  $\epsilon_r = 41.534$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Right Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(9.82, 9.82, 9.82); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (51x101x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.315 mW/g

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 5.844 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.425 mW/g

**SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.189 mW/g**

Maximum value of SAR (measured) = 0.294 mW/g

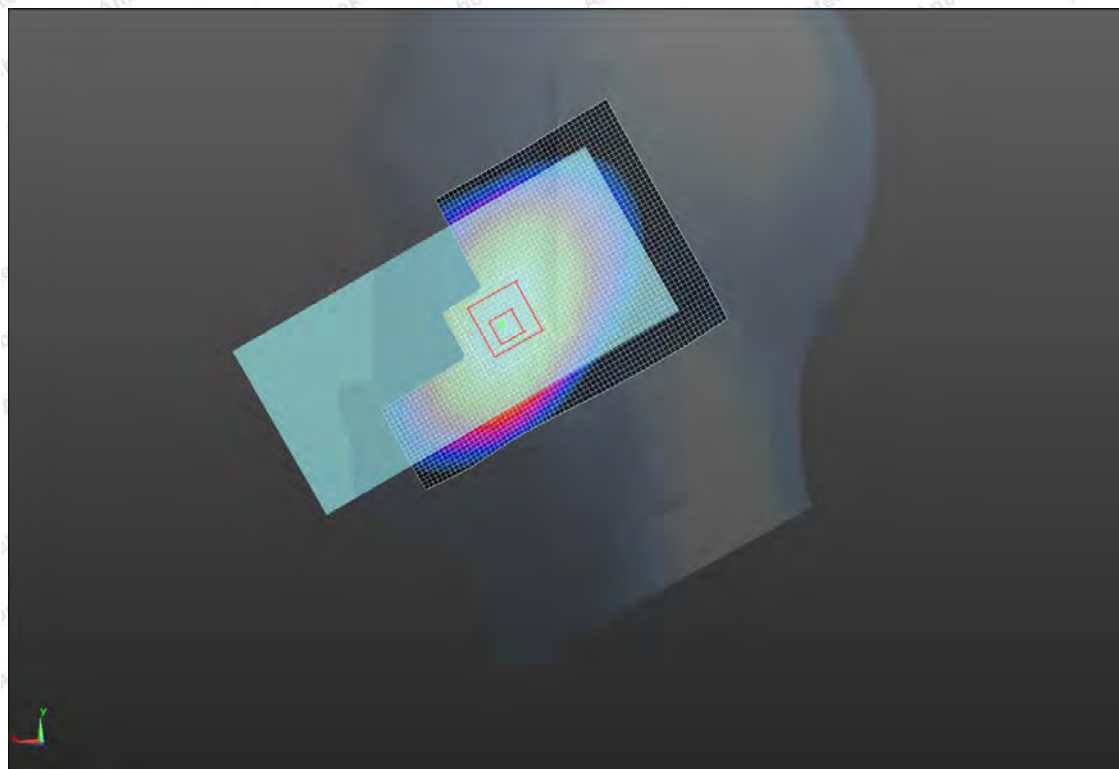
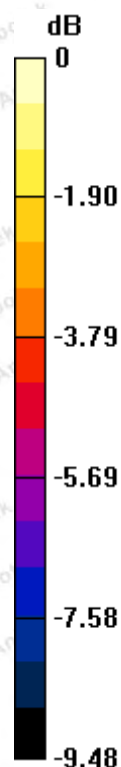


Figure 10: LTE Band 17\_QPSK\_Right Check

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**LTE Band 26\_QPSK**

Date: 12/2/2019

Communication System: Customer System; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f=831.5$  MHz;  $\sigma=0.91$  S/m;  $\epsilon_r=41.53$ ;  $\rho=1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(9.71, 9.71, 9.71); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.202 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 3.795 V/m; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.285 mW/g

**SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.111 mW/g**

Maximum value of SAR (measured) = 0.196 W/kg

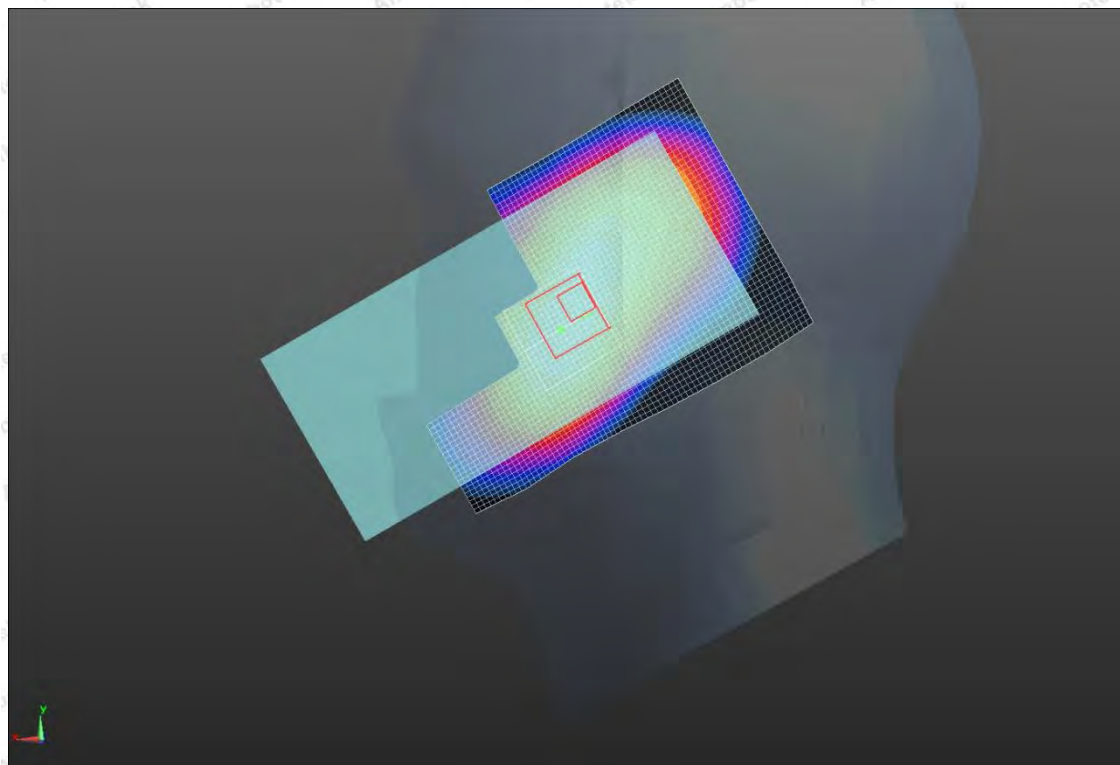
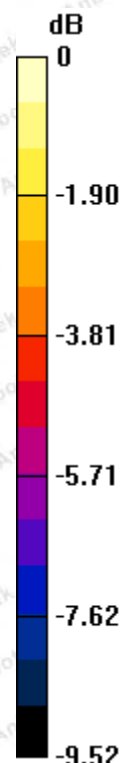


Figure 11: LTE Band 26\_QPSK

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**LTE Band 38\_QPSK 20M\_Left Cheek**

Date: 12/04/2019

Communication System: Customer System; Frequency: 2595 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f=2595$  MHz;  $\sigma=1.79$  S/m;  $\epsilon_r=38.26$ ;  $\rho=1000$  kg/m<sup>3</sup>

Phantom section: Left Section:

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(7.38,7.38,7.38); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.0990 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$ mm,  $dy=5$ mm,  $dz=5$ mm

Reference Value = 3.068 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.141 mW/g

**SAR(1 g) = 0.085 mW/g; SAR(10 g) = 0.051 mW/g**

Maximum value of SAR (measured) = 0.0889 W/kg

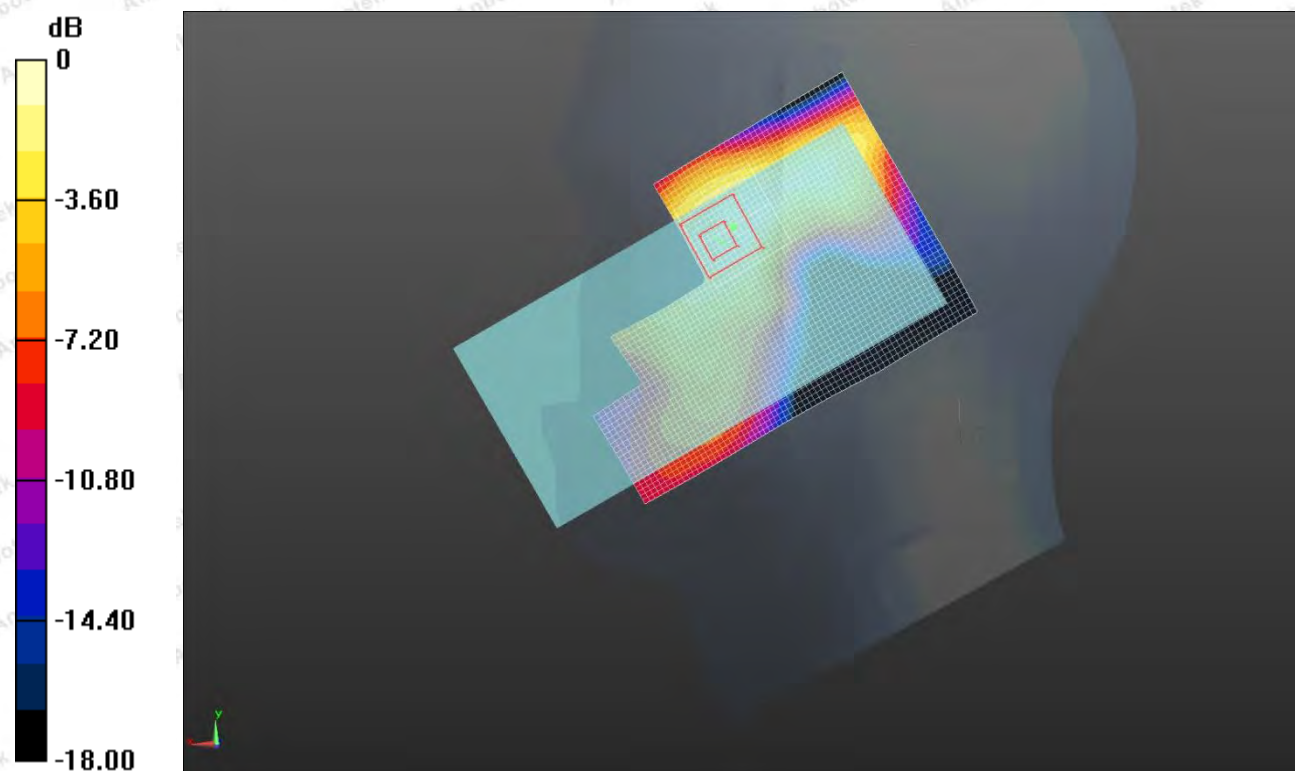


Figure 12: LTE Band 38\_QPSK

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**LTE Band 41\_QPSK 20M\_Left Cheek**

Date: 12/04/2019

Communication System: Customer System; Frequency: 2593.0 MHz;Duty Cycle:1:1

Medium parameters used (interpolated):  $f=2593.0$  MHz;  $\sigma=1.93$  mho/m;  $\epsilon=38.85$ ;  $\rho=1000$  kg/m<sup>3</sup>

Phantom section: Left Section:

**DASY5 Configuration:**

- Probe: EX3DV4 -7396; ConvF(7.38,7.38,7.38); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) =0.0743W/kg

**Zoom Scan (5x5x6)/Cube 0:** Measurement grid: dx=7mm, dy=7mm, dz=5mm

Reference Value = 3.978 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.110 mW/g

**SAR(1 g) = 0.066 mW/g; SAR(10 g) = 0.037 mW/g**

Maximum value of SAR (measured) =0.0729 W/kg

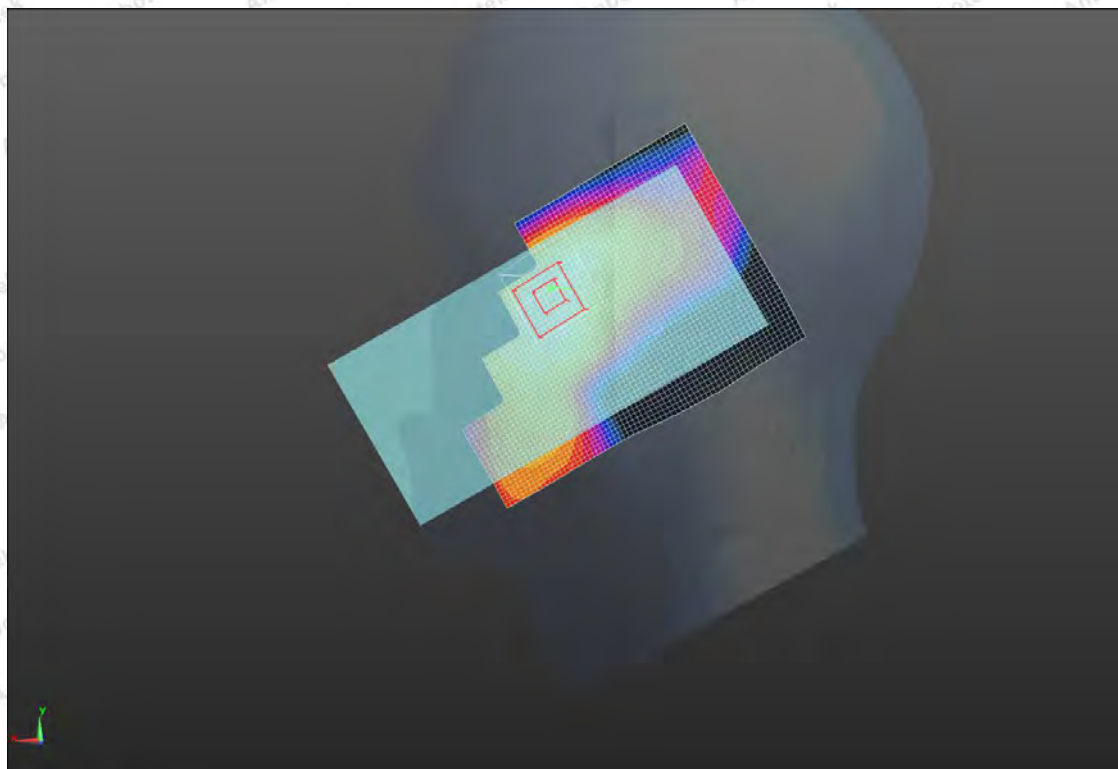
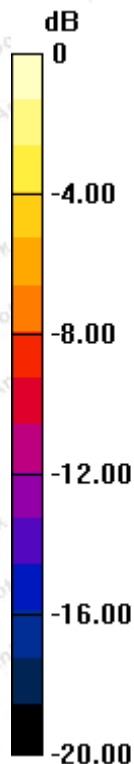


Figure 13: LTE Band 41\_QPSK

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## WLAN2.4G\_Right Check

Date: 12/4/2019

Communication System: 802.11; Frequency: 2472 MHz;

Medium parameters used:  $f = 2472$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 37.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section:

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(7.57, 7.57, 7.57); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x121x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.278 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.889 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.508 mW/g

**SAR(1 g) = 0.270 mW/g; SAR(10 g) = 0.137 mW/g**

Maximum value of SAR (measured) = 0.297 W/kg

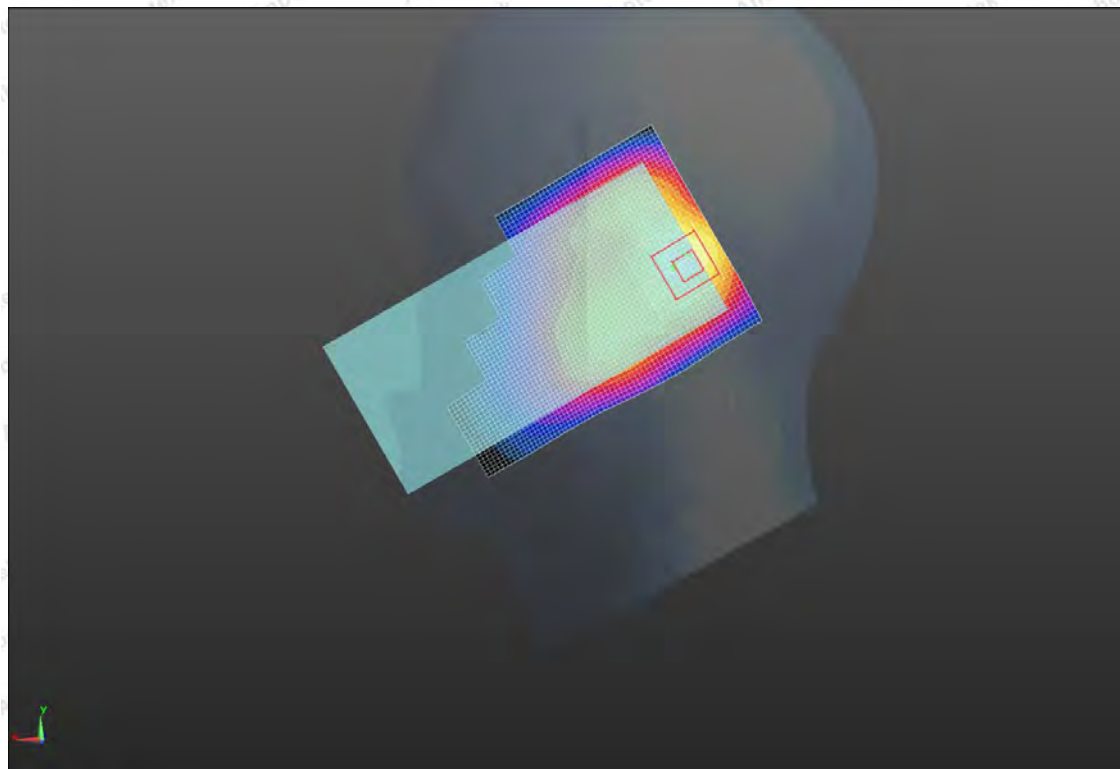
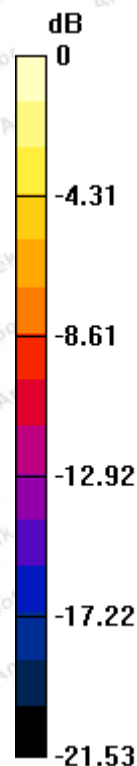


Figure 14: WLAN

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**WLAN5.2G**

Date: 12/5/2019

Communication System: 802.11a; Frequency: 5240 MHz;

Medium parameters used:  $f = 5240$  MHz;  $\sigma = 4.64$  S/m;  $\epsilon_r = 36.725$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Left Section:

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(5.33, 5.33, 5.33); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (51x101x1):** Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.258 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 5.349 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 0.290 mW/g

**SAR(1 g) = 0.246 mW/g; SAR(10 g) = 0.191 mW/g**

Maximum value of SAR (measured) = 0.256 W/kg

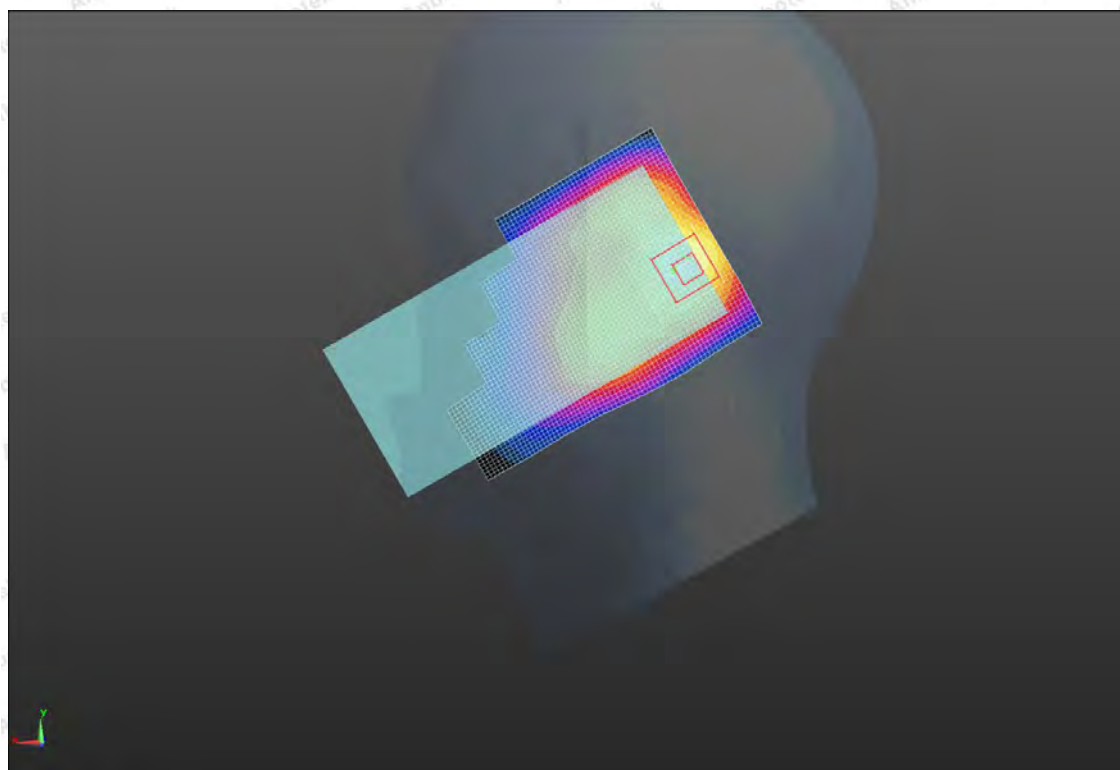
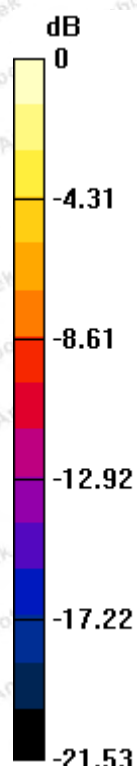


Figure 15: WLAN 5.2G \_ Right Check

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**WLAN5.8G**

Date: 12/5/2019

Communication System: Customer System; Frequency: 5825 MHz;

Medium parameters used:  $f = 5825 \text{ MHz}$ ;  $\sigma = 5.26 \text{ mho/m}$ ;  $\epsilon_r = 36.27$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Left Section:

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(4.92, 4.92, 4.92); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

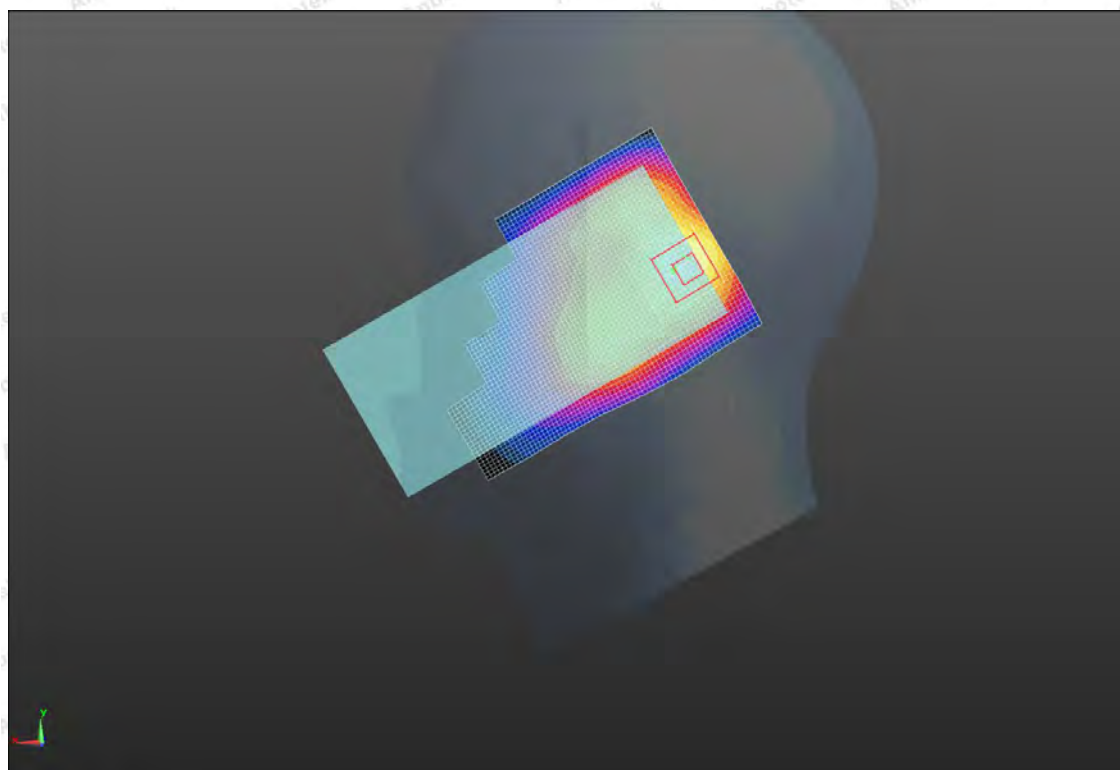
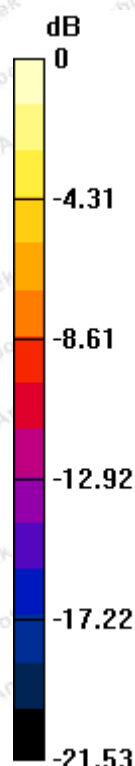
**Area Scan (51x101x1):** Interpolated grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$ Maximum value of SAR (interpolated) =  $0.224 \text{ mW/g}$ **Zoom Scan (7x7x12)/Cube 0:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$ Reference Value =  $2.856 \text{ V/m}$ ; Power Drift =  $0.12 \text{ dB}$ Peak SAR (extrapolated) =  $0.426 \text{ mW/g}$ **SAR(1 g) =  $0.196 \text{ mW/g}$ ; SAR(10 g) =  $0.102 \text{ mW/g}$** Maximum value of SAR (measured) =  $0.212 \text{ W/kg}$ 

Figure 16: WLAN 5.8G \_ Right Check

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**GSM850**

Date: 12/2/2019

Communication System: GSM 850; Frequency: 836.6 MHz;

Medium parameters used (interpolated):  $f = 836.6$  MHz;  $\sigma = 0.965$  mho/m;  $\epsilon_r = 55.94$ ;  $\rho = 1000$  kg/m<sup>3</sup>;

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(9.88, 9.88, 9.88); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (51x101x1):** Interpolated grid:  $dx = 1.500$  mm,  $dy = 1.500$  mm

Maximum value of SAR (interpolated) = 0.189 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx = 5$  mm,  $dy = 5$  mm,  $dz = 5$  mm

Reference Value = 13.430 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 0.222 mW/g

**SAR(1 g) = 0.180 mW/g; SAR(10 g) = 0.136 mW/g**

Maximum value of SAR (measured) = 0.190 W/kg

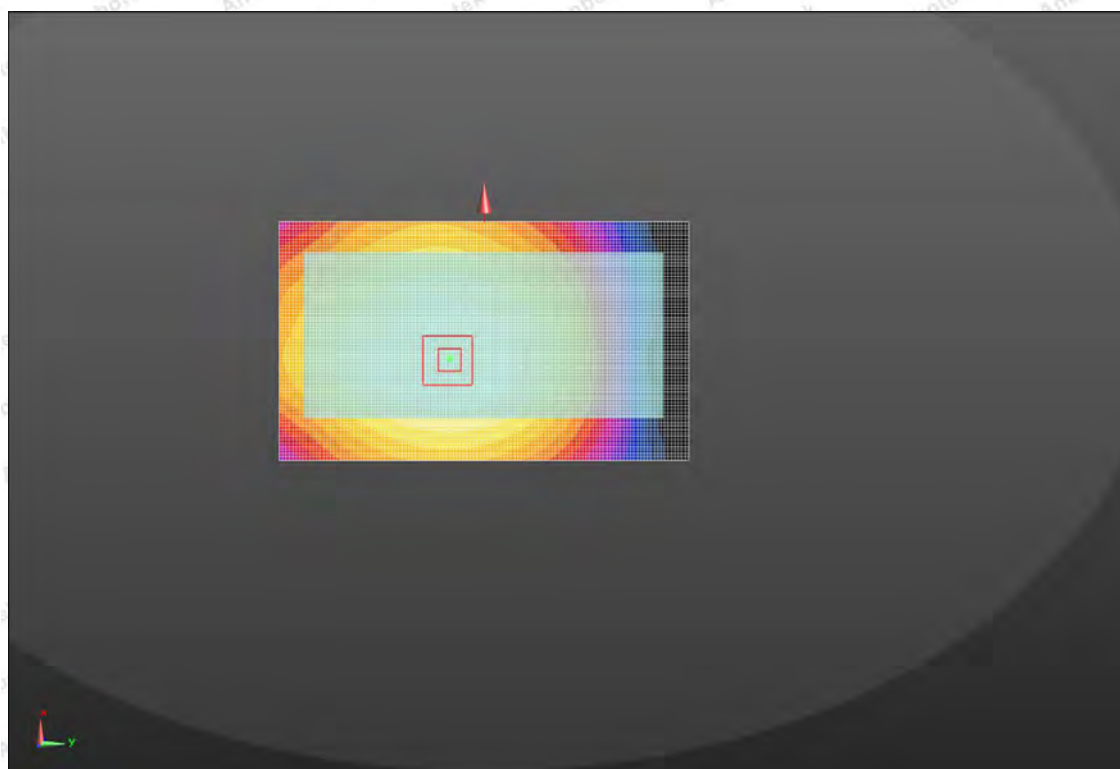
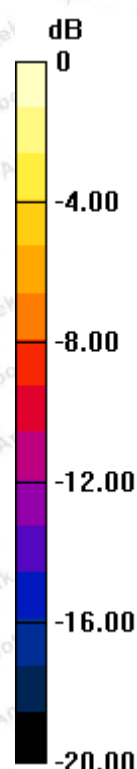


Figure 17: GSM850

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**GSM1900**

Date: 12/3/2019

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.558$  mho/m;  $\epsilon_r = 52.99$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(7.97, 7.97, 7.97); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (51x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.110 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.346 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.153 mW/g

**SAR(1 g) = 0.101 mW/g; SAR(10 g) = 0.065 mW/g**

Maximum value of SAR (measured) = 0.110 W/kg

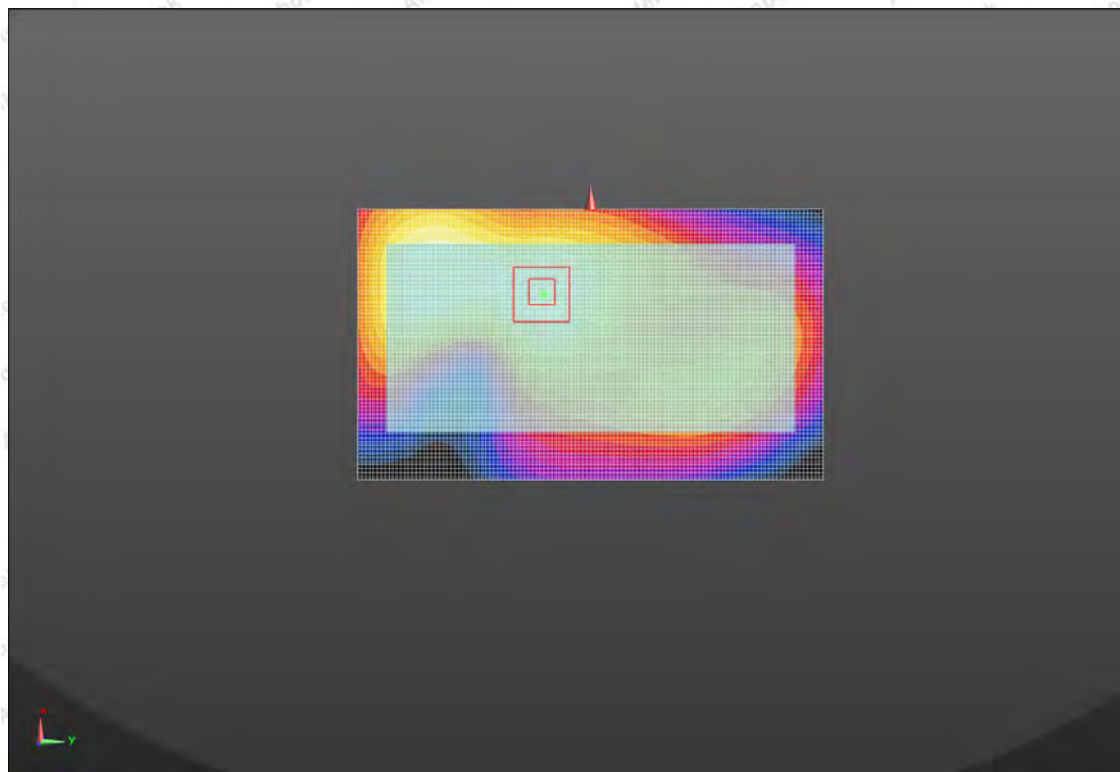
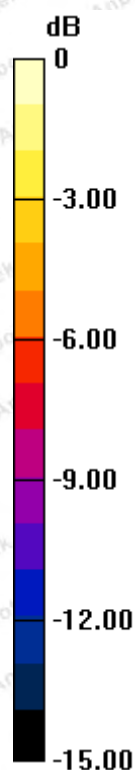


Figure 18: GSM1900

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## WCDMA Band II\_RCM

Date: 12/3/2019

Communication System: W1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 1880$  MHz;  $\sigma = 1.48$  mho/m;  $\epsilon_r = 52.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4-7396; ConvF(7.97, 7.97, 7.97); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Area Scan (51x101x1): Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.166 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm

Reference Value = 8.670 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.220 mW/g

SAR(1 g) = 0.162 mW/g; SAR(10 g) = 0.132 mW/g

Maximum value of SAR (measured) = 0.169 W/kg

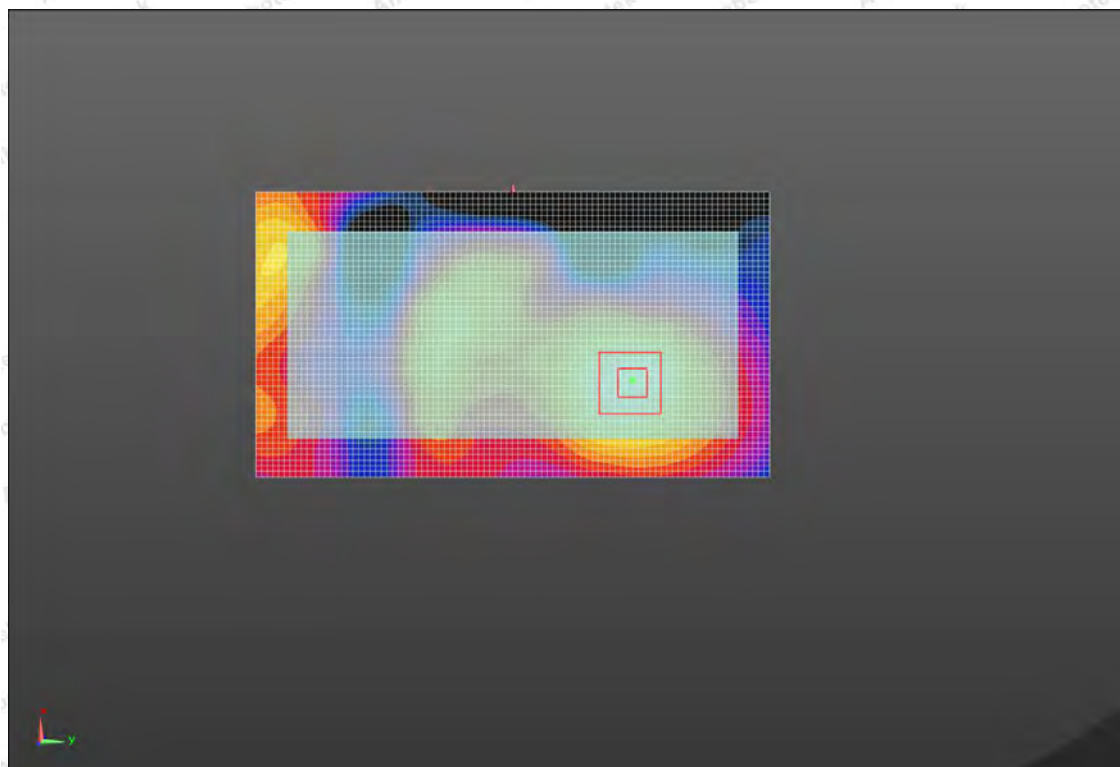
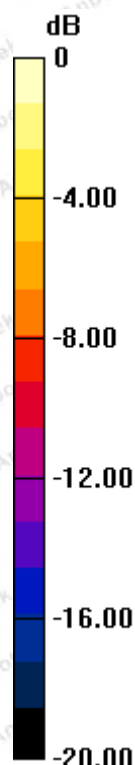


Figure 19: WCDMA Band II\_RCM

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## WCDMA Band V\_RCM

Date: 12/2/2019

Communication System: W850; Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 837$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 55.5$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4-7396; ConvF(9.88, 9.88, 9.88); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.181 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.299 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.197 mW/g

SAR(1 g) = 0.177 mW/g; SAR(10 g) = 0.158 mW/g

Maximum value of SAR (measured) = 0.181 W/kg

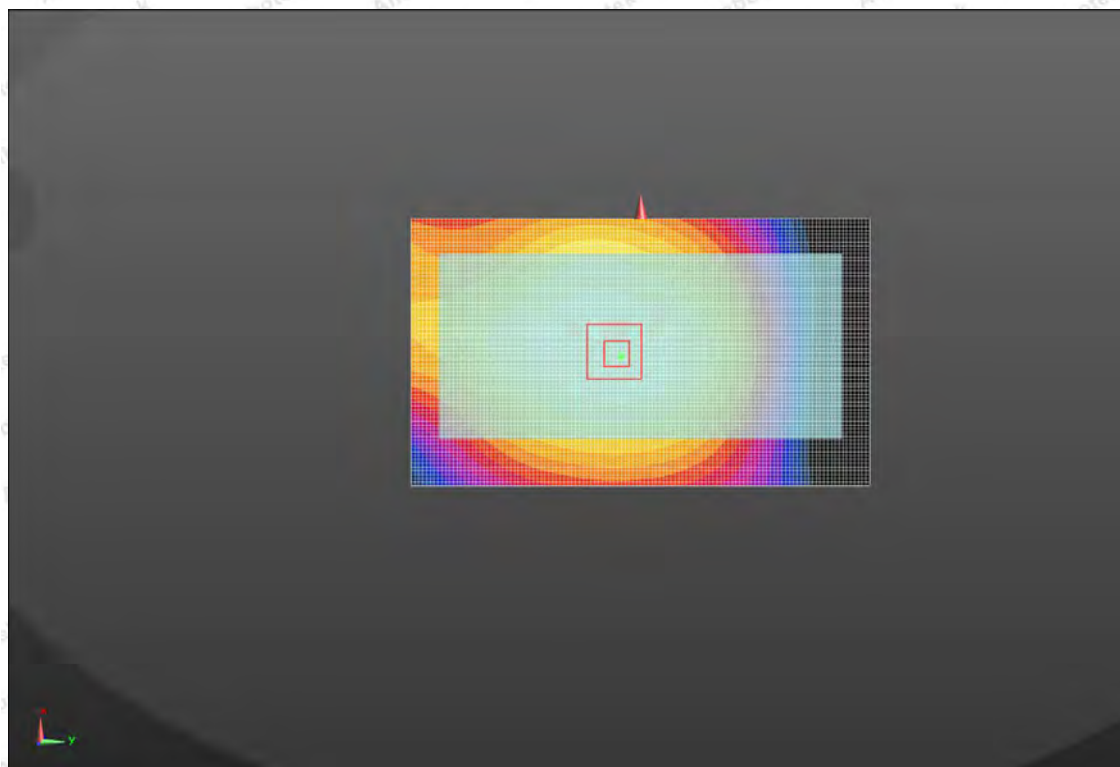
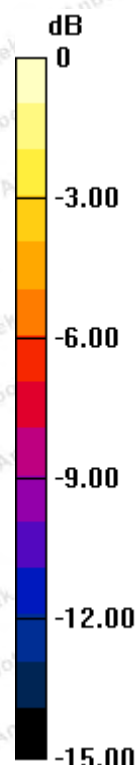


Figure 20: WCDMA Band V\_RCM\_Rear side\_0mm

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## LTE Band 2\_QPSK

Date: 12/3/2019

Communication System: Customer System; Frequency: 1880.0 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f=1880.0$  MHz;  $\sigma=1.41$  mho/m;  $\epsilon=40.01$ ;  $\rho=1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4-7396; ConvF(7.97, 7.97, 7.97); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.184 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.313 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.261 mW/g

SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.109 mW/g

Maximum value of SAR (measured) = 0.185 W/kg

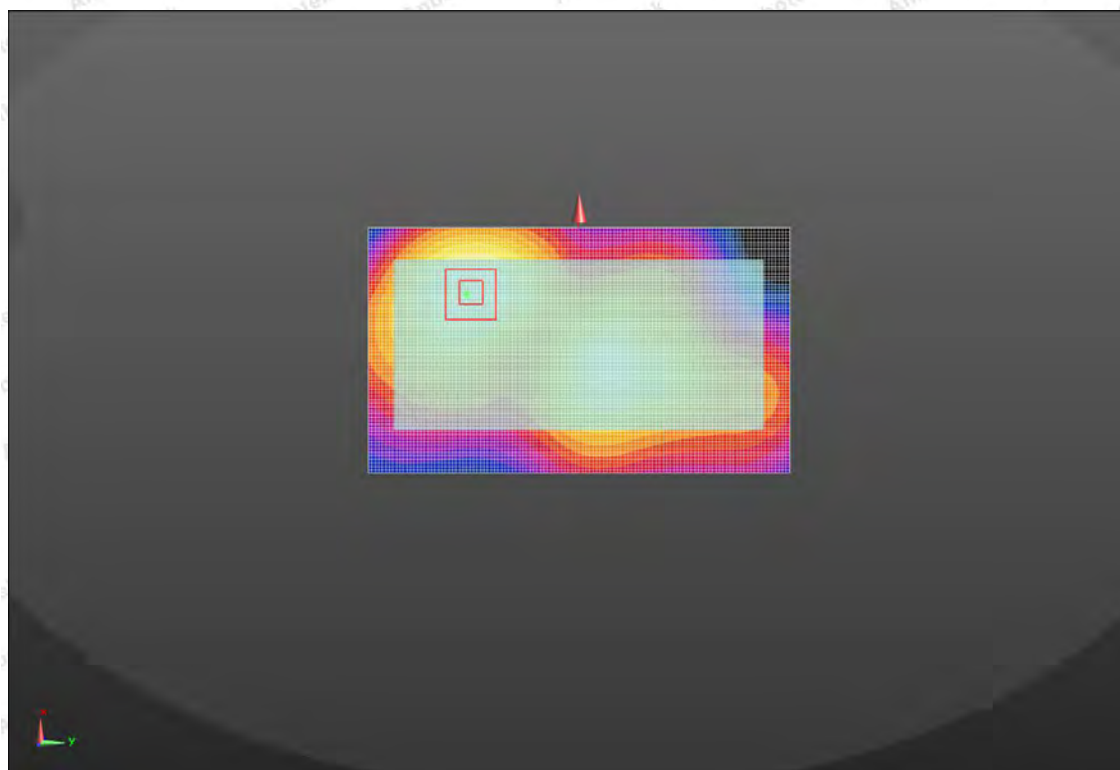
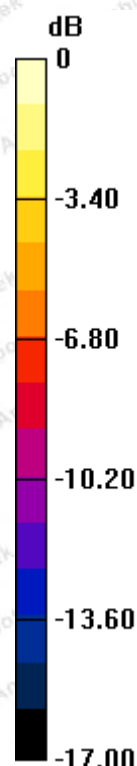


Figure 21: LTE Band 2\_QPSK

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## LTE Band 4\_QPSK\_Rear side\_0mm

Date: 12/3/2019

Communication System: LTE B4; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 1732.5$  MHz;  $\sigma = 1.49$  mho/m;  $\epsilon_r = 52.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4-7396; ConvF(8.24, 8.24, 8.24); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.287 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.015 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.386 mW/g

SAR(1 g) = 0.269 mW/g; SAR(10 g) = 0.184 mW/g

Maximum value of SAR (measured) = 0.285 W/kg

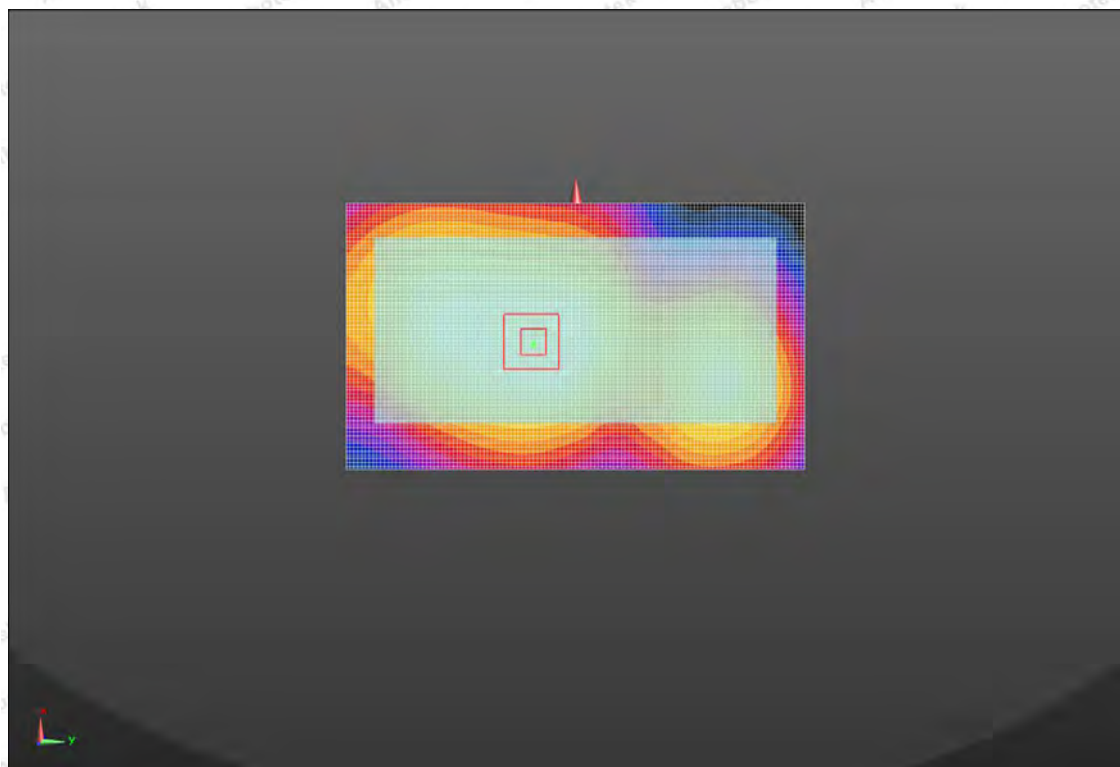
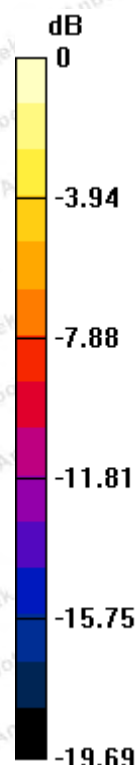


Figure 22: LTE Band 4\_QPSK

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**LTE Band 5\_QPSK\_Rear side\_0mm**

Date: 12/2/2019

Communication System: Customer System; Frequency: 836.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f=836.5$  MHz;  $\sigma=1.91$  mho/m;  $\epsilon_r=41.48$ ;  $\rho=1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(9.88, 9.88, 9.88); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (51x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.425 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.165 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.517 mW/g

**SAR(1 g) = 0.368 mW/g; SAR(10 g) = 0.259 mW/g**

Maximum value of SAR (measured) = 0.419 W/kg

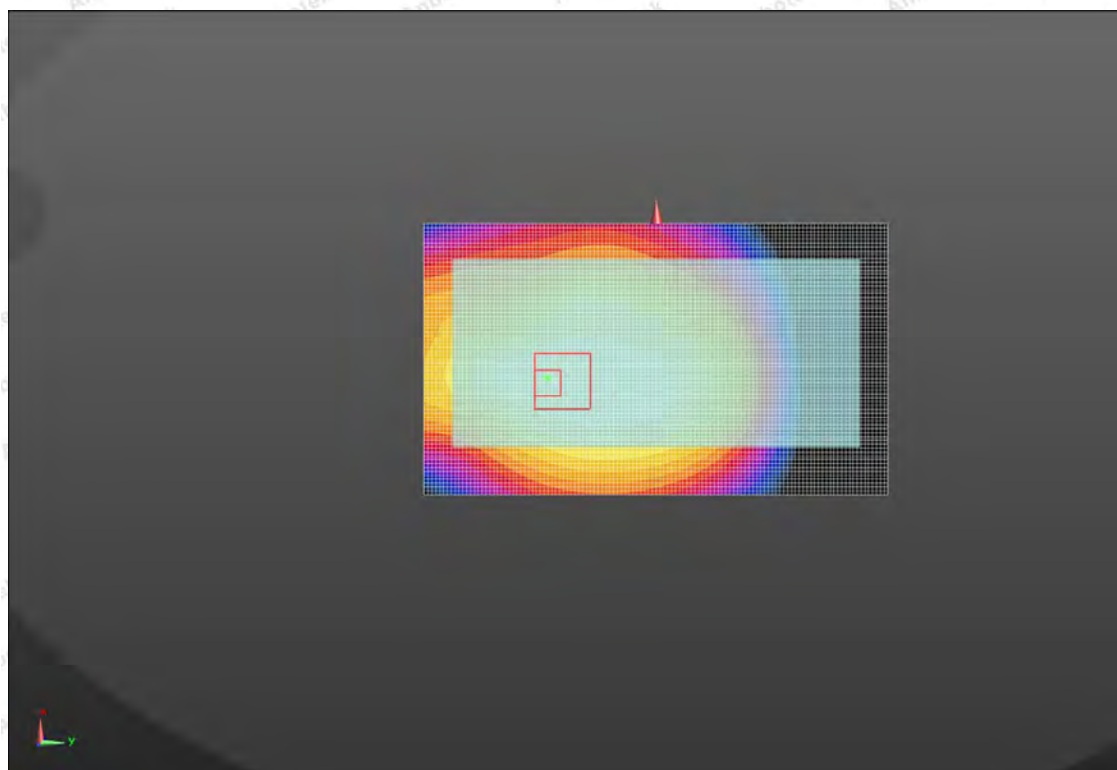
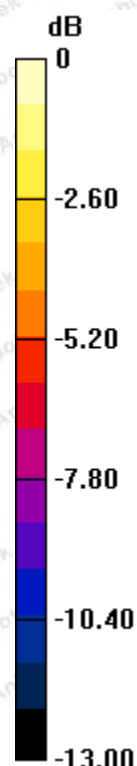


Figure 23: LTE Band 5\_QPSK\_Rear side

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## LTE Band 7\_QPSK

Date: 12/4/2019

Communication System: Customer System; Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f=2535$  MHz;  $\sigma=1.77$  S/m;  $\epsilon_r=39.37$ ;  $\rho=1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4-7396; ConvF(7.38, 7.38, 7.38); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Area Scan (51x101x1): Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.284 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm

Reference Value = 6.042 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.491 mW/g

SAR(1 g) = 0.253 mW/g; SAR(10 g) = 0.128 mW/g

Maximum value of SAR (measured) = 0.288 W/kg

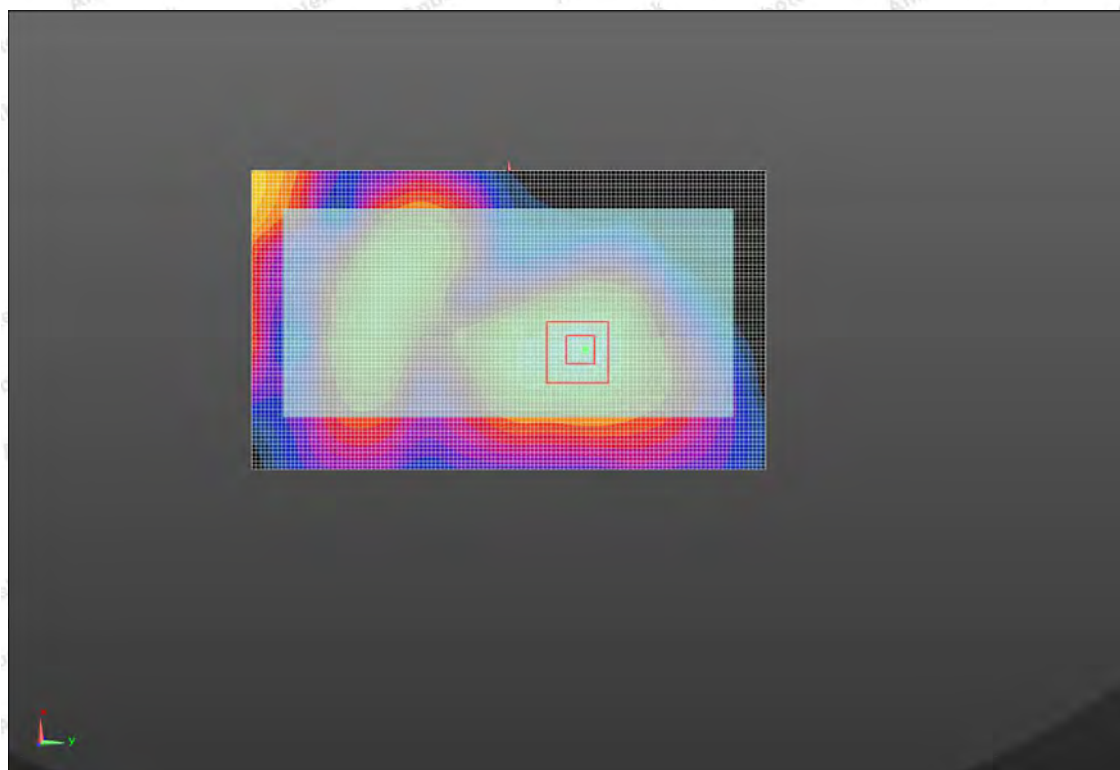
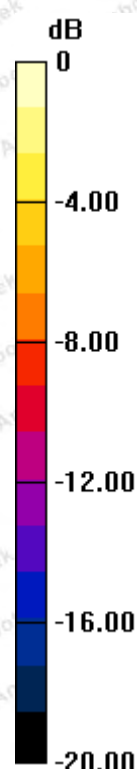


Figure 24: LTE Band 7\_QPSK \_Rear side

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## LTE Band 12\_QPSK\_Rear side

Date: 12/1/2019

Communication System: Generic LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 707.5$  MHz;  $\sigma = 0.86$  mho/m;  $\epsilon_r = 42.412$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4-7396; ConvF(10.09, 10.09, 10.09); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Area Scan (51x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.164 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.624 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.240 mW/g

SAR(1 g) = 0.151 mW/g; SAR(10 g) = 0.092 mW/g

Maximum value of SAR (measured) = 0.166 W/kg

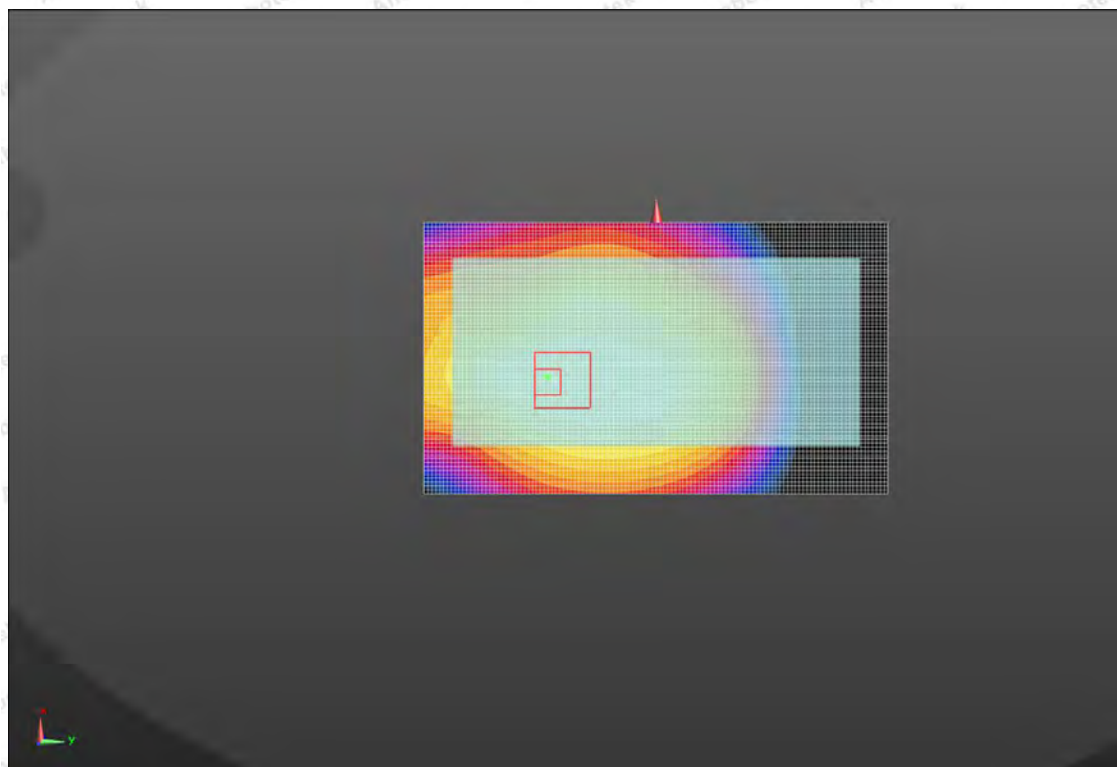
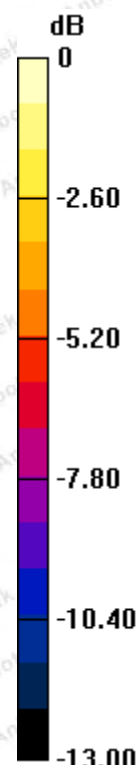


Figure 25: LTE Band 12\_QPSK\_Rear side

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**LTE Band 17\_QPSK \_Rear side**

Date: 12/1/2019

Communication System: Generic LTE; Frequency: 710.0 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 710.0$ ; MHz;  $\sigma = 0.952$  mho/m;  $\epsilon_r = 55.684$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(10.09, 10.09, 10.09); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (51x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.254 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.35 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.249 mW/g

**SAR(1 g) = 0.187 mW/g; SAR(10 g) = 0.122 mW/g**

Maximum value of SAR (measured) = 0.236 W/kg

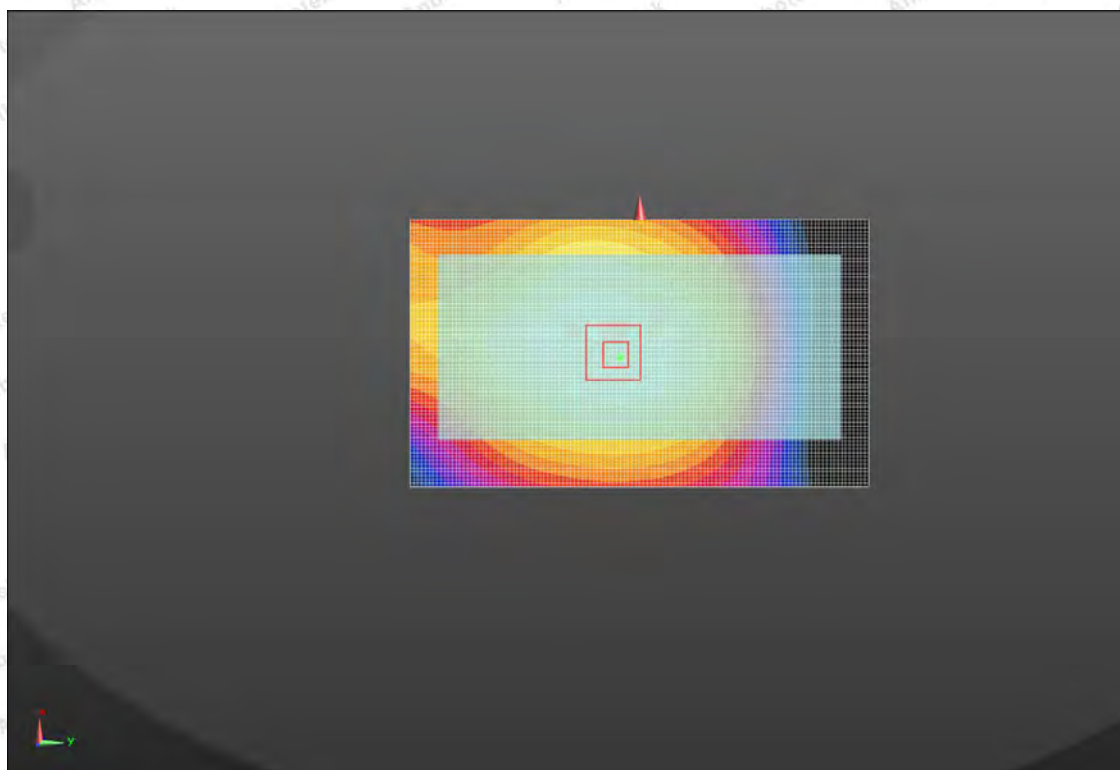
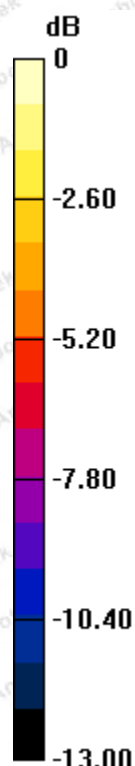


Figure 26: LTE Band 17\_QPSK \_Rear side

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## LTE Band 26\_QPSK \_

Date: 12/2/2019

Communication System: Customer System; Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f=831.5$  MHz;  $\sigma=0.91$  S/m;  $\epsilon_r=41.53$ ;  $\rho=1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4-7396; ConvF(9.88, 9.88, 9.88); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Area Scan (121x181x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.212 W/kg

Zoom Scan (5x5x6)/Cube 0: Measurement grid: dx=7mm, dy=7mm, dz=5mm

Reference Value = 13.255 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.259 mW/g

SAR(1 g) = 0.172 mW/g; SAR(10 g) = 0.107 mW/g

Maximum value of SAR (measured) = 0.219 W/kg

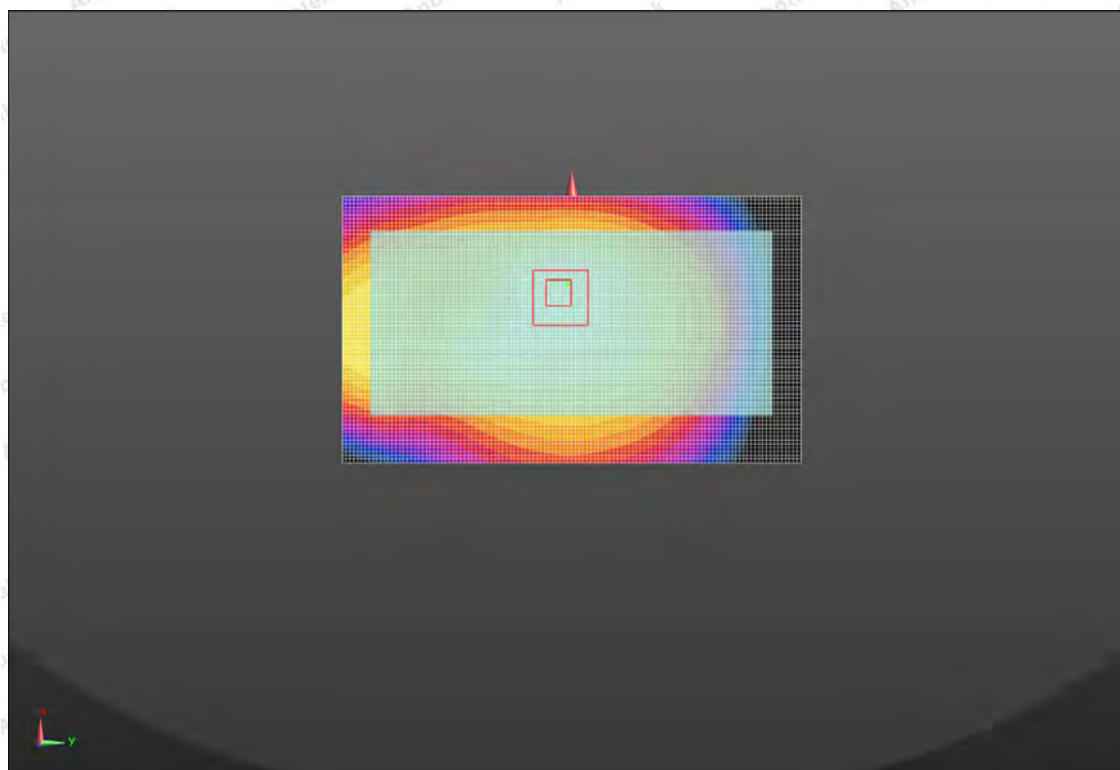
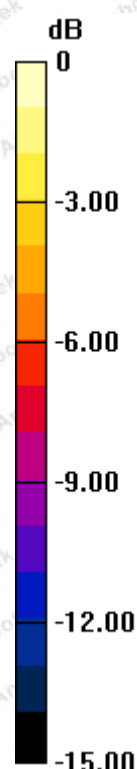


Figure 27: LTE Band 26\_QPSK

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**LTE Band 38\_QPSK**

Date: 12/4/2019

Communication System: Customer System; Frequency: 2595 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f=2595$  MHz;  $\sigma=1.79$  S/m;  $\epsilon_r=38.26$ ;  $\rho=1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(7.38, 7.38, 7.38); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (61x121x1):** Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm

Maximum value of SAR (interpolated) = 0.112 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5$  mm,  $dy=5$  mm,  $dz=5$  mm

Reference Value = 2.584 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 0.255 mW/g

**SAR(1 g) = 0.117 mW/g; SAR(10 g) = 0.056 mW/g**

Maximum value of SAR (measured) = 0.135 W/kg

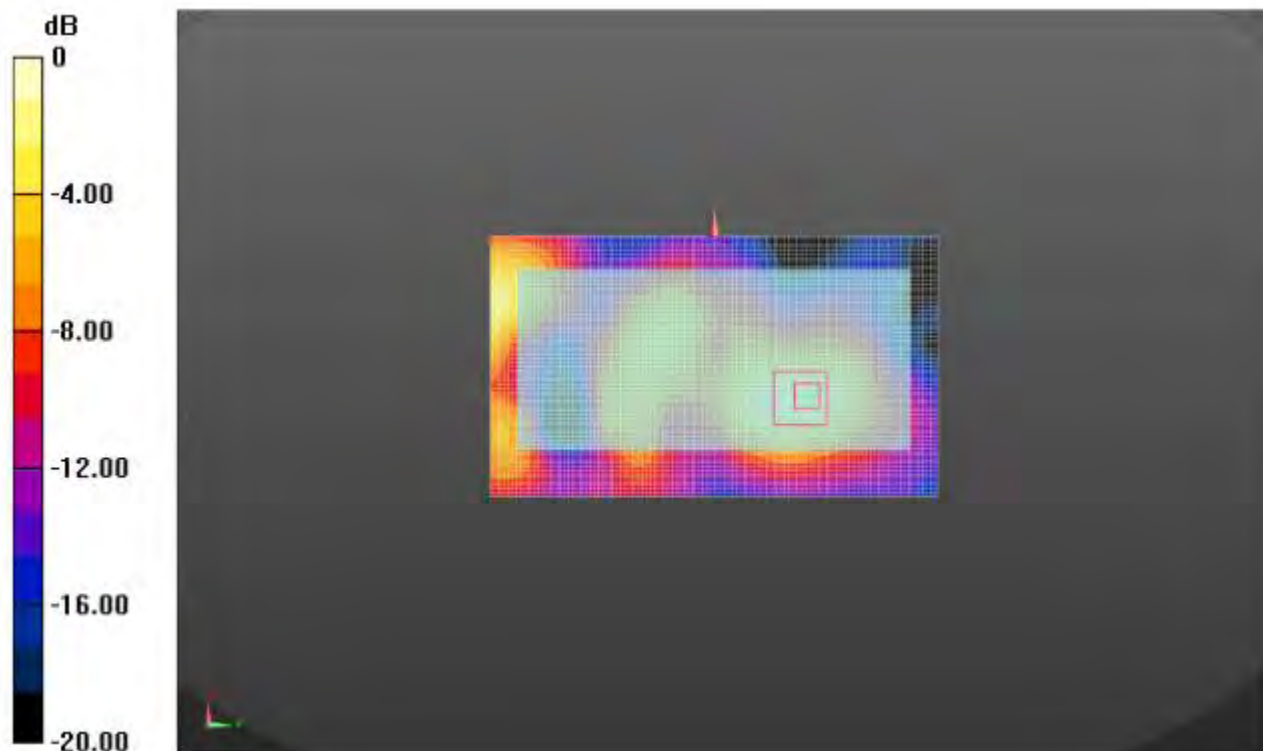


Figure 28: LTE Band 38\_QPSK\_Rear side

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## LTE Band 41\_QPSK

Date: 12/4/2019

Communication System: Customer System; Frequency: 2593.0 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f=2593.0$  MHz;  $\sigma=1.93$  mho/m;  $\epsilon=38.85$ ;  $\rho=1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4-7396; ConvF(7.38, 7.38, 7.38); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.501 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.136 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.550 mW/g

SAR(1 g) = 0.381 mW/g; SAR(10 g) = 0.279 mW/g

Maximum value of SAR (measured) = 0.498 W/kg

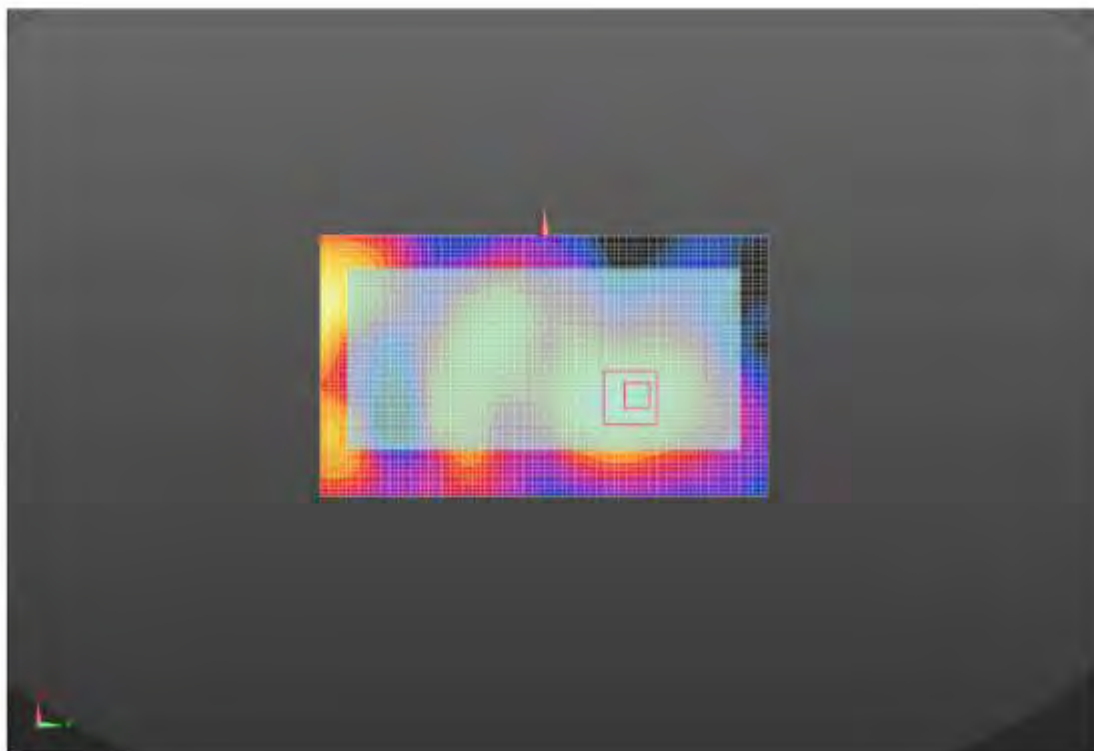
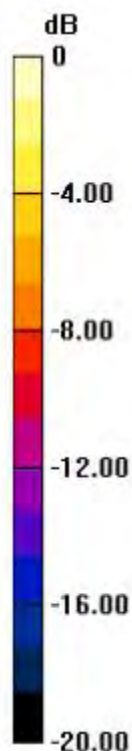


Figure 29: LTE Band 38\_QPSK\_Rear side

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## WLAN2.4G\_Rear side

Date: 12/4/2019

Communication System: 802.11; Frequency: 2472 MHz;

Medium parameters used:  $f = 2472$  MHz;  $\sigma = 1.89$  mho/m;  $\epsilon_r = 37.2$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4-7396; ConvF(7.53, 7.53, 7.53); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;

Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (51x101x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.139 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.867 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 0.247 mW/g

**SAR(1 g) = 0.134 mW/g; SAR(10 g) = 0.071 mW/g**

Maximum value of SAR (measured) = 0.143 W/kg

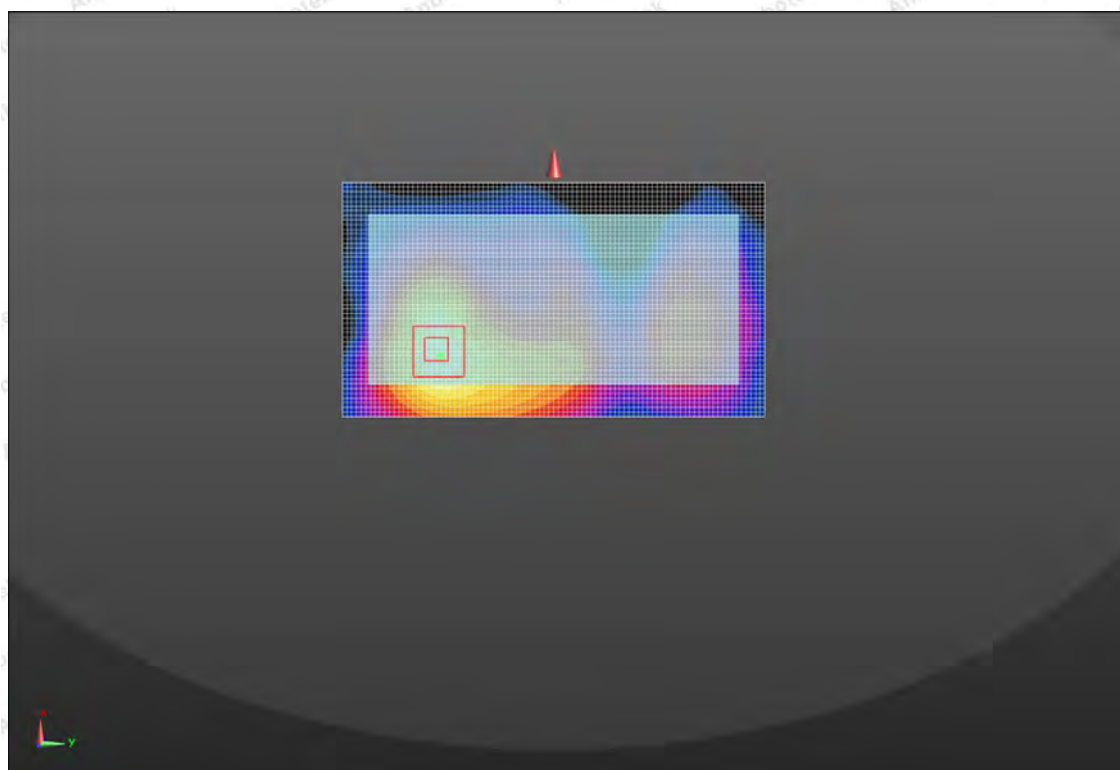
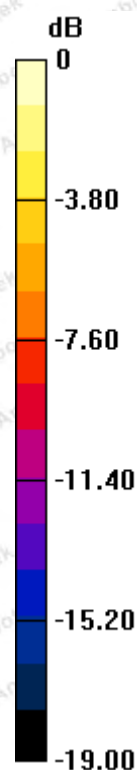


Figure 30: WLAN 2.4G\_Rear side\_0mm

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**WLAN5.2G\_Rear side**

Date: 12/5/2019

Communication System: 802.11a; Frequency: 5240 MHz;

Medium parameters used:  $f = 5240$  MHz;  $\sigma = 4.64$  S/m;  $\epsilon_r = 36.725$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(4.93, 4.93, 4.93); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (12x19x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.192 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 10.106 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.307 mW/g

**SAR(1 g) = 0.186 mW/g; SAR(10 g) = 0.164 mW/g**

Maximum value of SAR (measured) = 0.190 W/kg

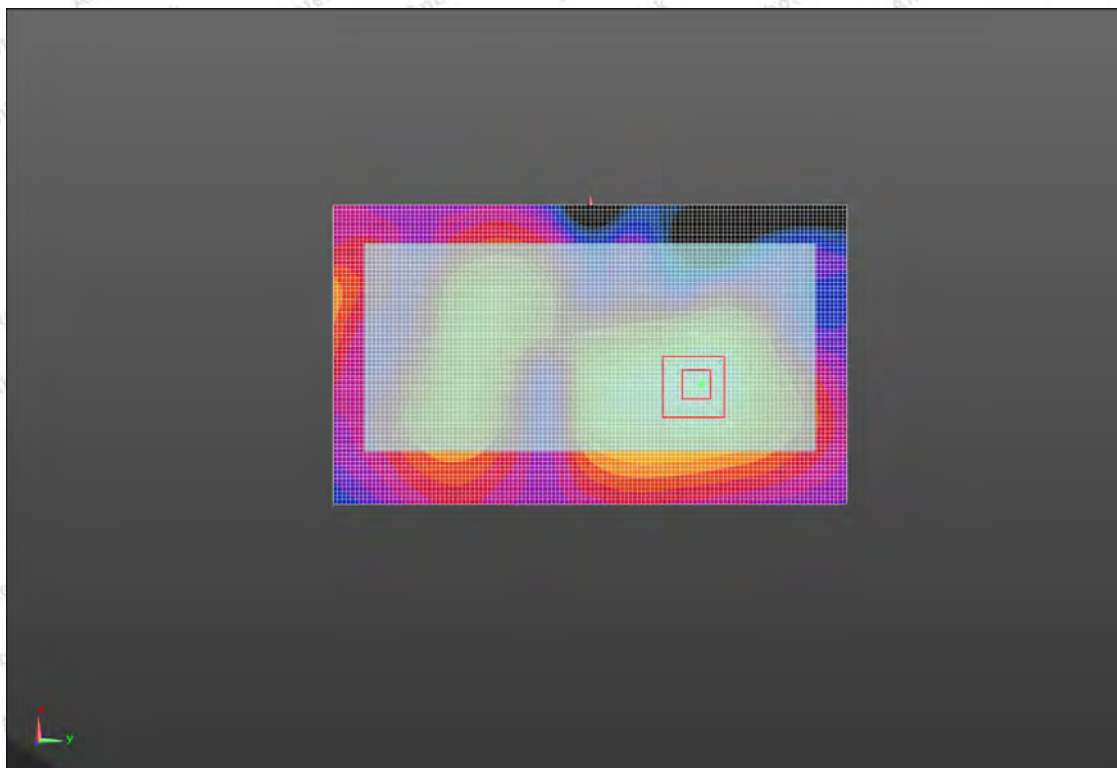
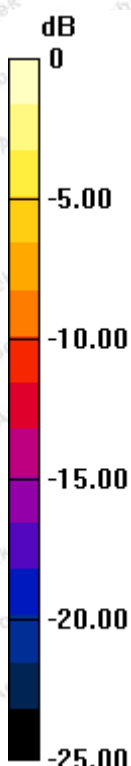


Figure 31: WLAN 5.2G\_Rear side

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**WLAN5.8G\_Rear side**

Date: 12/5/2019

Communication System: 802.11an; Frequency: 5825MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 5825$  MHz;  $\sigma = 6.221$  S/m;  $\epsilon_r = 45.95$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 -7396; ConvF(4.52, 4.52, 4.52); Calibrated: 5/6/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Area Scan (11x20x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.189 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.613 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.338 mW/g

**SAR(1 g) = 0.173 mW/g; SAR(10 g) = 0.089 mW/g**

Maximum value of SAR (measured) = 0.192W/kg

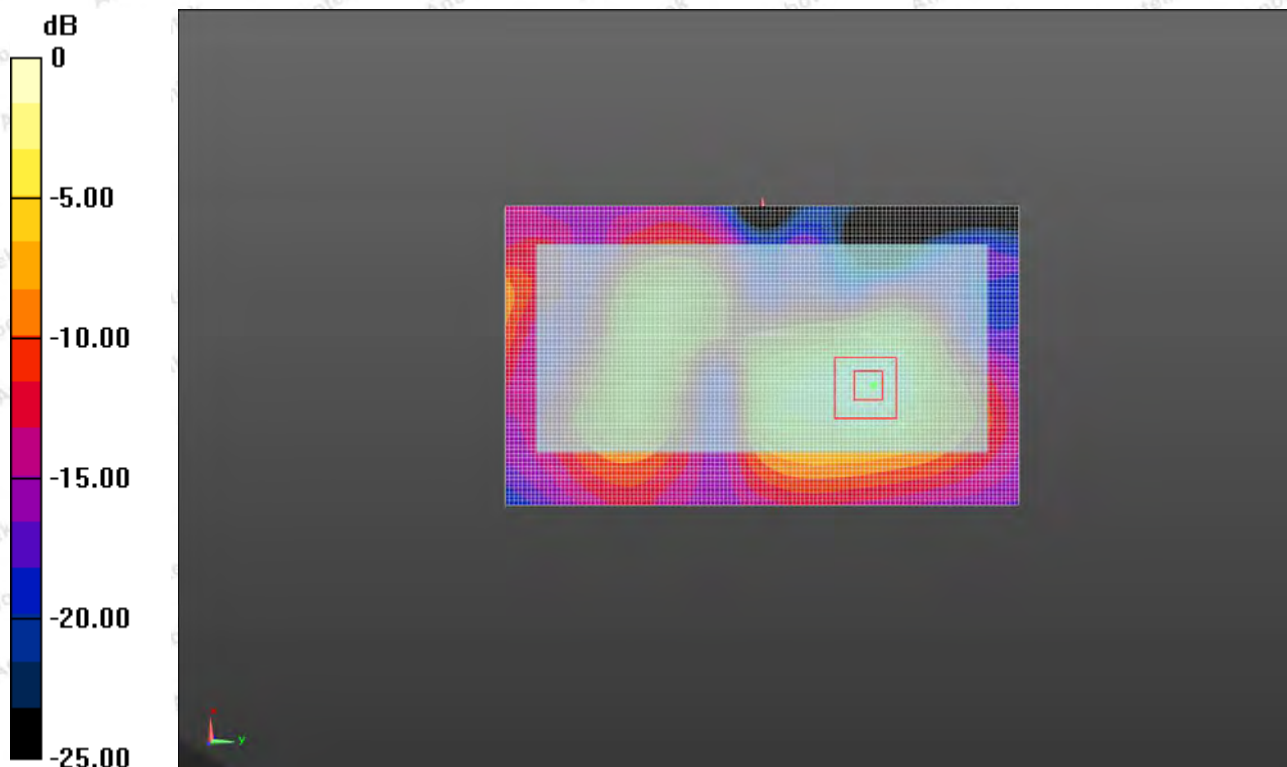


Figure 32: WLAN 5.8G\_Rear side

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**PMR\_FM12.5KHz\_Face held\_25mm**

Date: 12/6/2019

Communication System: FM; Frequency: 173.375 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 173.375$  MHz;  $\sigma = 0.773$  S/m;  $\epsilon_r = 51.255$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 -3337; ConvF(7.96, 7.96, 7.96); Calibrated: 7/23/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Towards Phantom /Area Scan (51x181x1):** Interpolated grid: dx=1.50 mm, dy=1.50 mm

Maximum value of SAR (interpolated) = 1.45 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 35.224 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 1.645 mW/g

**SAR(1 g) = 1.26 mW/g; SAR(10 g) = 0.889 mW/g**

Maximum value of SAR (measured) = 1.48 W/kg

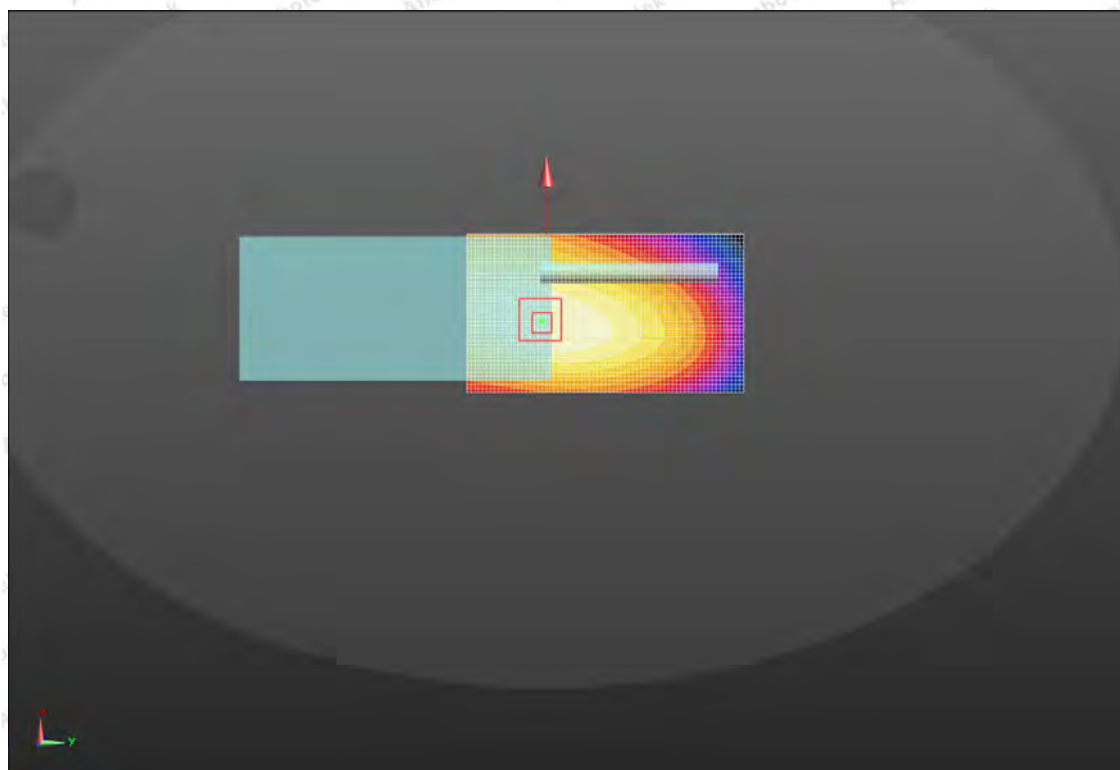
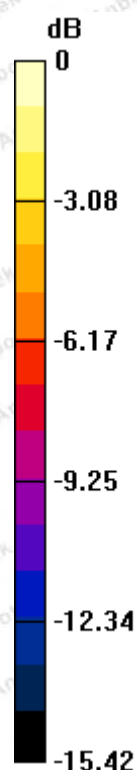


Figure 33: PMR\_FM12.5KHz\_Face held\_25mm

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**PMR\_FM12.5KHz\_Body Worn\_0mm**

Date: 12/6/2019

Communication System: FM; Frequency: 164.5 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 164.5$  MHz;  $\sigma = 0.75$  S/m;  $\epsilon_r = 61.784$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 -3337; ConvF(7.42, 7.42, 7.42); Calibrated: 7/23/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Towards Ground /Area Scan (51x181x1):** Interpolated grid: dx=1.50 mm, dy=1.50 mm

Maximum value of SAR (interpolated) = 3.65 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.115 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 4.109 mW/g

**SAR(1 g) = 2.63 mW/g; SAR(10 g) = 2.01 mW/g**

Maximum value of SAR (measured) = 3.51 W/kg

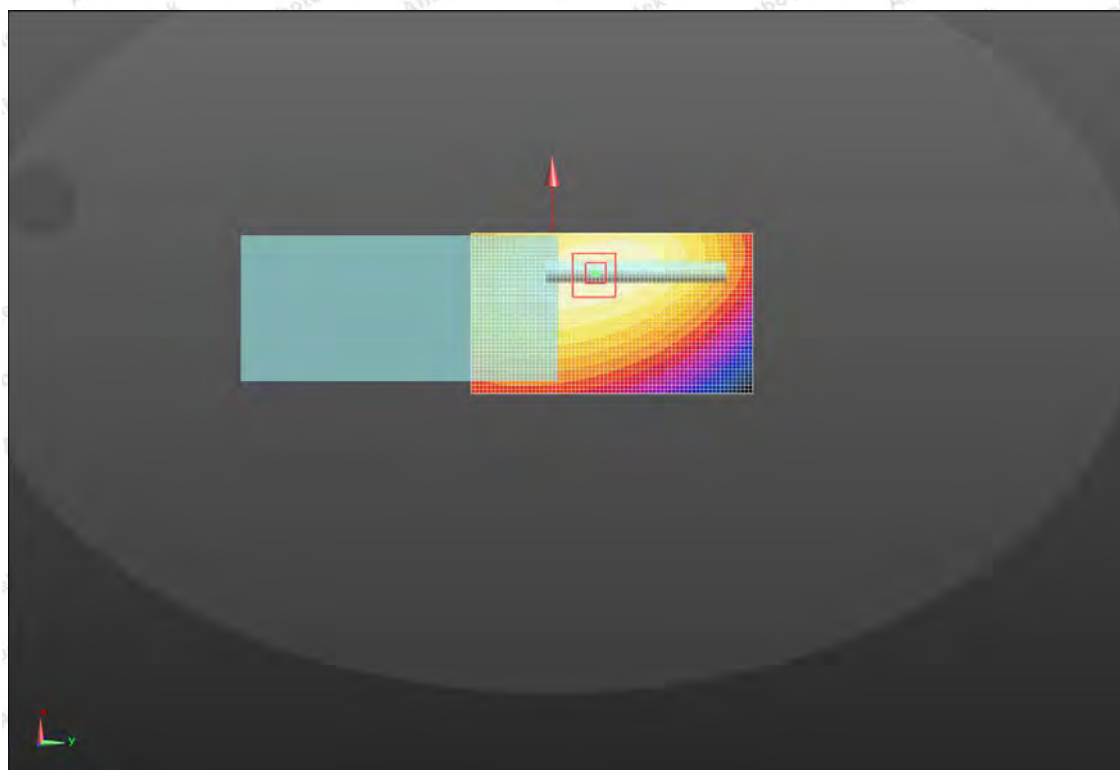
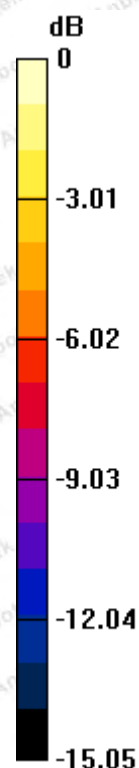


Figure 34: PMR\_FM12.5KHz\_Body Worn\_0mm

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

## PMR\_FM12.5KHz\_Face held\_25mm

Date: 12/6/2019

Communication System: FM; Frequency: 452.00 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated):  $f = 452.00$  MHz;  $\sigma = 0.88$  S/m;  $\epsilon_r = 44.31$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 -3337; ConvF(7.96, 7.96, 7.96); Calibrated: 7/23/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Towards Phantom /Area Scan (51x181x1):** Interpolated grid: dx=1.50 mm, dy=1.50 mm

Maximum value of SAR (interpolated) = 1.78 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.762 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.979 mW/g

**SAR(1 g) = 1.56 mW/g; SAR(10 g) = 1.19 mW/g**

Maximum value of SAR (measured) = 1.75 W/kg

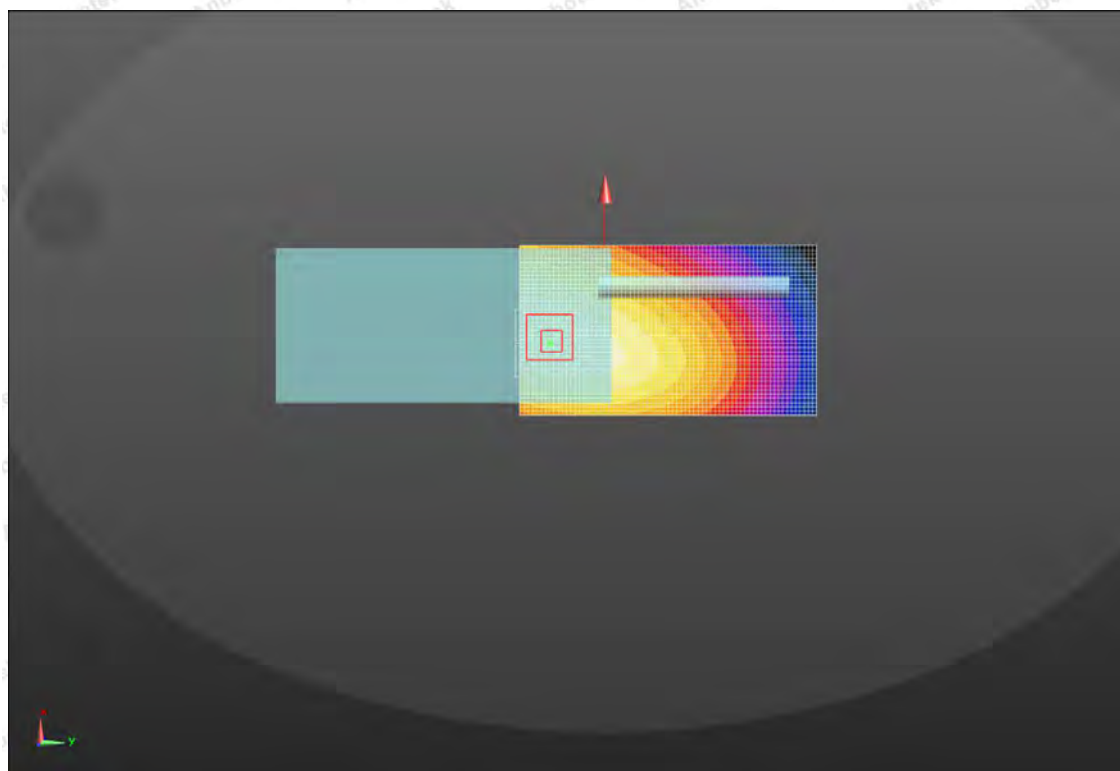
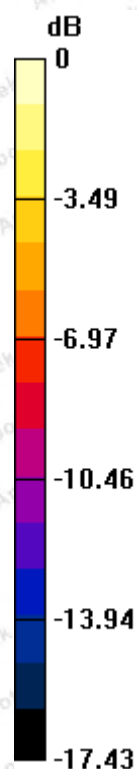


Figure 35: PMR\_FM12.5KHz\_Face held\_25mm

## Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

**PMR\_FM12.5KHz\_Body Worn\_0mm**

Date: 12/6/2019

Communication System: FM; Frequency: 469.95 MHz; Duty Cycle: 1:1

Medium parameters used:  $f = 469.95$  MHz;  $\sigma = 0.95$  S/m;  $\epsilon_r = 58.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 -3337; ConvF(7.42, 7.42, 7.42); Calibrated: 7/23/2019;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 1549; Calibrated: 3/19/2019
- Phantom: ELI 4.0; Type: QDOVA001BA;
- Measurement SW: DASY52, Version 52.8 (2); SEMCAD X Version 14.6.6 (6824)

**Towards Ground /Area Scan (51x181x1):** Interpolated grid: dx=1.50 mm, dy=1.50 mm

Maximum value of SAR (interpolated) = 3.46 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 58.587 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 4.527 mW/g

**SAR(1 g) = 3.28 mW/g; SAR(10 g) = 2.41 mW/g**

Maximum value of SAR (measured) = 3.43 W/kg

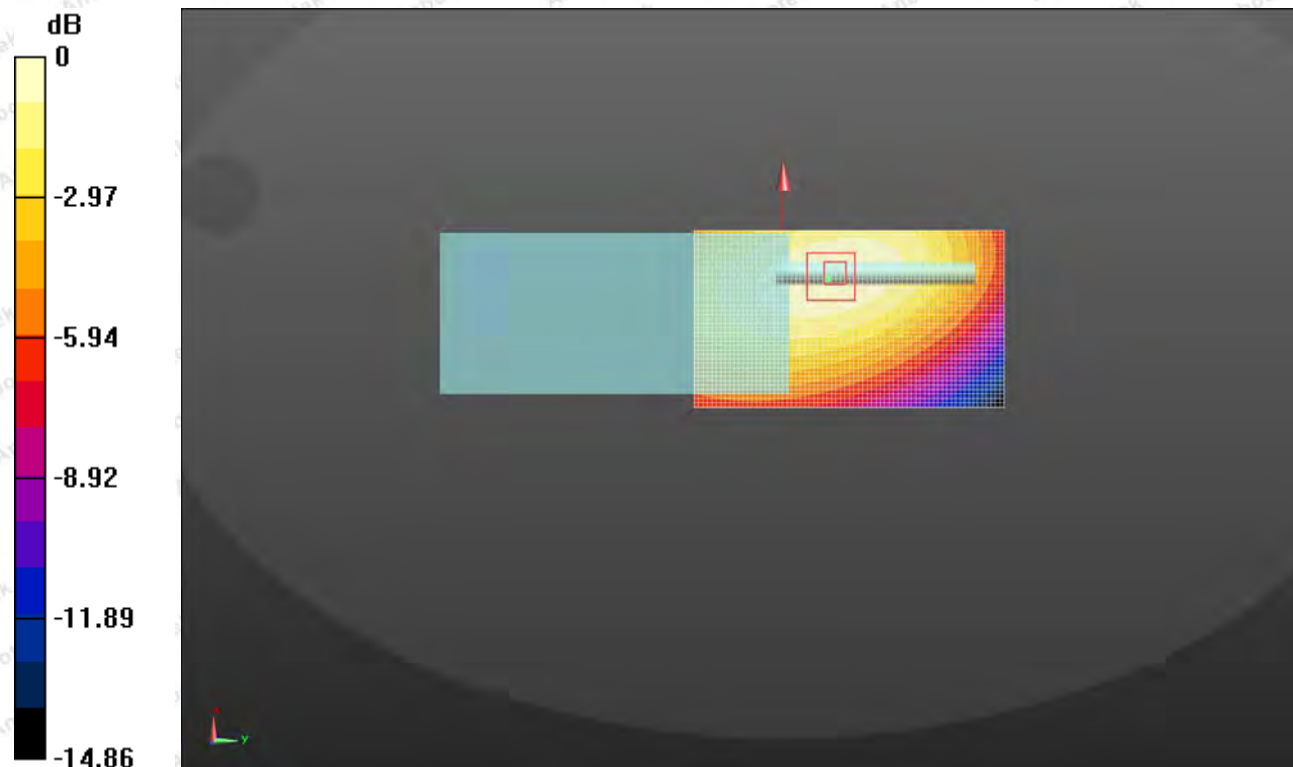


Figure 36: PMR\_FM12.5KHz\_Body Worn\_0mm

**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86)755-26066440 Fax: (86)755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com