

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
findbox GmbH

SmartESL Accesspoint
Model No.: 500300

FCC ID: 2AJDH-500300

Prepared for : findbox GmbH
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Prepared by : ACCURATE TECHNOLOGY CO., LTD
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Report No. : ATE20161073
Date of Test : May 31-June 1, 2016
Date of Report : July 10, 2016

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Test Report Certification

Applicant : findbox GmbH
Manufacturer : findbox GmbH
EUT Description : SmartESL Accesspoint
Model No. : 500300
Trade Mark : N/A

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247: 2015
ANSI C63.10: 2013**

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

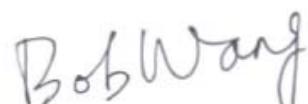
Date of Test :

May 31-June 1, 2016

Date of Report:

July 10, 2016

Prepared by :



(Bob Wang, Engineer)

Approved & Authorized Signer :



(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : SmartESL Accesspoint
Model Number : 500300
Trade Mark : N/A
Frequency Range : 902.5MHz-927.5MHz
Number of Channels : 101
Antenna Gain : 2dBi
Antenna type : External Antenna
Power Supply : DC 5.1V (Power by Adapter)
Adapter : MODEL: DSA-13PFC-05 FCA
 INPUT: 100-240V~0.5A
 OUTPUT: 5.1V/2.5A
Modulation mode : FSK
Applicant : findbox GmbH
Address : Bundesstrasse 16, Ettenheim 77955,
 Baden-Wuerttemberg, Germany
Manufacuter : findbox GmbH
Address : Bundesstrasse 16, Ettenheim 77955,
 Baden-Wuerttemberg, Germany
Date of sample received : May 30, 2016
Date of Test : May 31-June 1, 2016

1.2. Accessory and Auxiliary Equipment

N/A

1.3.Carrier Frequency of Channels

| Channel | Freq (Mhz) | Channel | Freq (Mhz) | Channel | Freq (Mhz) |
|---------|------------|---------|------------|---------|------------|
| | | 34 | 910,750 | 68 | 919,250 |
| 1 | 902,500 | 35 | 911,000 | 69 | 919,500 |
| 2 | 902,750 | 36 | 911,250 | 70 | 919,750 |
| 3 | 903,000 | 37 | 911,500 | 71 | 920,000 |
| 4 | 903,250 | 38 | 911,750 | 72 | 920,250 |
| 5 | 903,500 | 39 | 912,000 | 73 | 920,500 |
| 6 | 903,750 | 40 | 912,250 | 74 | 920,750 |
| 7 | 904,000 | 41 | 912,500 | 75 | 921,000 |
| 8 | 904,250 | 42 | 912,750 | 76 | 921,250 |
| 9 | 904,500 | 43 | 913,000 | 77 | 921,500 |
| 10 | 904,750 | 44 | 913,250 | 78 | 921,750 |
| 11 | 905,000 | 45 | 913,500 | 79 | 922,000 |
| 12 | 905,250 | 46 | 913,750 | 80 | 922,250 |
| 13 | 905,500 | 47 | 914,000 | 81 | 922,500 |
| 14 | 905,750 | 48 | 914,250 | 82 | 922,750 |
| 15 | 906,000 | 49 | 914,500 | 83 | 923,000 |
| 16 | 906,250 | 50 | 914,750 | 84 | 923,250 |
| 17 | 906,500 | 51 | 915,000 | 85 | 923,500 |
| 18 | 906,750 | 52 | 915,250 | 86 | 923,750 |
| 19 | 907,000 | 53 | 915,500 | 87 | 924,000 |
| 20 | 907,250 | 54 | 915,750 | 88 | 924,250 |
| 21 | 907,500 | 55 | 916,000 | 89 | 924,500 |
| 22 | 907,750 | 56 | 916,250 | 90 | 924,750 |
| 23 | 908,000 | 57 | 916,500 | 91 | 925,000 |
| 24 | 908,250 | 58 | 916,750 | 92 | 925,250 |
| 25 | 908,500 | 59 | 917,000 | 93 | 925,500 |
| 26 | 908,750 | 60 | 917,250 | 94 | 925,750 |
| 27 | 909,000 | 61 | 917,500 | 95 | 926,000 |
| 28 | 909,250 | 62 | 917,750 | 96 | 926,250 |
| 29 | 909,500 | 63 | 918,000 | 97 | 926,500 |
| 30 | 909,750 | 64 | 918,250 | 98 | 926,750 |
| 31 | 910,000 | 65 | 918,500 | 99 | 927,000 |
| 32 | 910,250 | 66 | 918,750 | 100 | 927,250 |
| 33 | 910,500 | 67 | 919,000 | 101 | 927,500 |

1.4. Description of Test Facility

| | |
|---------------|---|
| EMC Lab | : Accredited by TUV Rheinland Shenzhen |
| | Listed by FCC The Registration Number is 752051 |
| | Listed by Industry Canada The Registration Number is 5077A-2 |
| | Accredited by China National Accreditation Committee for Laboratories The Certificate Registration Number is L3193 |
| Name of Firm | : ACCURATE TECHNOLOGY CO. LTD |
| Site Location | : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China |

1.5. Measurement Uncertainty

| | |
|---|---------------|
| Conducted Emission Expanded Uncertainty | = 2.23dB, k=2 |
| Radiated emission expanded uncertainty (9kHz-30MHz) | = 3.08dB, k=2 |
| Radiated emission expanded uncertainty (30MHz-1000MHz) | = 4.42dB, k=2 |
| Radiated emission expanded uncertainty (Above 1GHz) | = 4.06dB, k=2 |

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

| Kind of equipment | Manufacturer | Type | S/N | Calibrated dates | Calibrated until |
|--------------------|------------------------|-----------------------------------|------------|------------------|------------------|
| EMI Test Receiver | Rohde&Schwarz | ESCS30 | 100307 | Jan. 9, 2016 | Jan. 09, 2017 |
| EMI Test Receiver | Rohde&Schwarz | ESPI3 | 101526/003 | Jan. 9, 2016 | Jan. 09, 2017 |
| Spectrum Analyzer | Agilent | E7405A | MY45115511 | Jan. 9, 2016 | Jan. 09, 2017 |
| Pre-Amplifier | Rohde&Schwarz | CBLU118354 0-01 | 3791 | Jan. 9, 2016 | Jan. 09, 2017 |
| Loop Antenna | Schwarzbeck | FMZB1516 | 1516131 | Jan. 14, 2016 | Jan. 13, 2017 |
| Bilog Antenna | Schwarzbeck | VULB9163 | 9163-323 | Jan. 14, 2016 | Jan. 13, 2017 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-655 | Jan. 14, 2016 | Jan. 12, 2017 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 9170-359 | Jan. 14, 2016 | Jan. 13, 2017 |
| LISN | Rohde&Schwarz | ESH3-Z5 | 100305 | Jan. 9, 2016 | Jan. 09, 2017 |
| LISN | Schwarzbeck | NSLK8126 | 8126431 | Jan. 9, 2016 | Jan. 09, 2017 |
| Highpass Filter | Wainwright Instruments | WHKX3.6/18 G-10SS | N/A | Jan. 9, 2016 | Jan. 09, 2017 |
| Band Reject Filter | Wainwright Instruments | WRCG2400/2 485-2375/2510 -60/11SS | N/A | Jan. 9, 2016 | Jan. 09, 2017 |

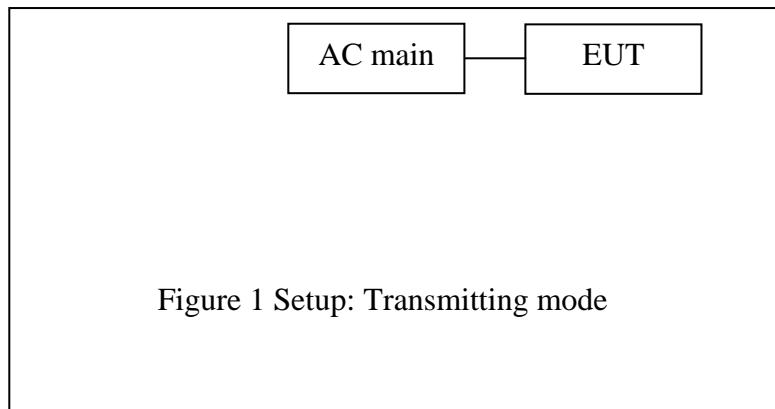
3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The mode is used: Transmitting mode

Low Channel: 902.5MHz
Middle Channel: 914.75MHz
High Channel: 927.5MHz
Hopping

3.2.Configuration and peripherals



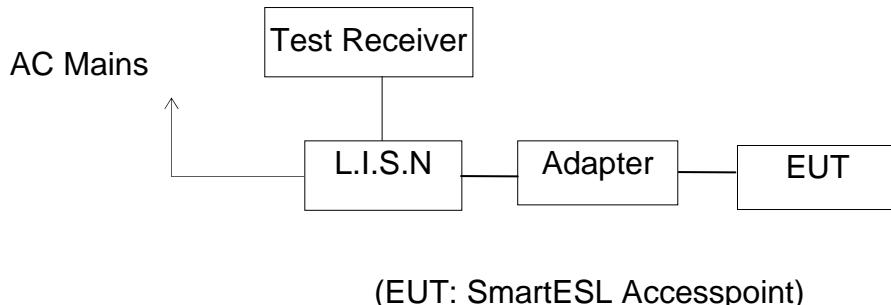
(EUT: SmartESL Accesspoint)

4. TEST PROCEDURES AND RESULTS

| FCC Rules | Description of Test | Result |
|-------------------------------------|-----------------------------------|-----------|
| Section 15.207 | Conducted Emission Test | Compliant |
| Section 15.247(a)(1) | 20dB Bandwidth Test | Compliant |
| Section 15.247(a)(1) | Carrier Frequency Separation Test | Compliant |
| Section 15.247(a)(1)(iii) | Number Of Hopping Frequency Test | Compliant |
| Section 15.247(a)(1)(iii) | Dwell Time Test | Compliant |
| Section 15.247(b)(1) | Maximum Peak Output Power Test | Compliant |
| Section 15.247(d) Section 15.209 | Radiated Emission Test | Compliant |
| Section 15.247(d) | Band Edge Compliance Test | Compliant |
| Section 15.203 | Antenna Requirement | Compliant |

5. POWER LINE CONDUCTED MEASUREMENT

5.1. Block Diagram of Test Setup



5.2. Power Line Conducted Emission Measurement Limits

| Frequency (MHz) | Limit dB(μV) | |
|--------------------|------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 - 0.50 | 66.0 – 56.0 * | 56.0 – 46.0 * |
| 0.50 - 5.00 | 56.0 | 46.0 |
| 5.00 - 30.00 | 60.0 | 50.0 |

NOTE1: The lower limit shall apply at the transition frequencies.
NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

5.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in test mode and measure it.

5.5. Test Procedure

The EUT is put on the plane 0.1 m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

5.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Test mode : On(AC 120V/60Hz)

EUT mode : 500300

MEASUREMENT RESULT: "ESL04_fin"

2016-6-1 15:14

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.150000 | 42.40 | 10.3 | 66 | 23.6 | QP | N | GND |
| 0.344000 | 32.00 | 11.1 | 59 | 27.1 | QP | N | GND |
| 0.470000 | 34.80 | 11.4 | 57 | 21.7 | QP | N | GND |
| 0.492000 | 34.50 | 11.5 | 56 | 21.6 | QP | N | GND |
| 1.520000 | 28.50 | 11.6 | 56 | 27.5 | QP | N | GND |
| 11.405000 | 20.40 | 11.9 | 60 | 39.6 | QP | N | GND |

MEASUREMENT RESULT: "ESL04_fin2"

2016-6-1 15:14

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.150000 | 27.10 | 10.3 | 56 | 28.9 | AV | N | GND |
| 0.344000 | 24.60 | 11.1 | 49 | 24.5 | AV | N | GND |
| 0.470000 | 26.80 | 11.4 | 47 | 19.7 | AV | N | GND |
| 0.492000 | 28.80 | 11.5 | 46 | 17.3 | AV | N | GND |
| 1.520000 | 23.10 | 11.6 | 46 | 22.9 | AV | N | GND |
| 11.405000 | 14.50 | 11.9 | 50 | 35.5 | AV | N | GND |

MEASUREMENT RESULT: "ESL03_fin"

2016-6-1 15:11

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.158000 | 41.70 | 10.4 | 66 | 23.9 | QP | L1 | GND |
| 0.472000 | 37.50 | 11.4 | 57 | 19.0 | QP | L1 | GND |
| 0.490000 | 37.70 | 11.5 | 56 | 18.5 | QP | L1 | GND |
| 0.810000 | 31.20 | 11.6 | 56 | 24.8 | QP | L1 | GND |
| 1.738000 | 27.90 | 11.6 | 56 | 28.1 | QP | L1 | GND |
| 11.270000 | 19.00 | 11.9 | 60 | 41.0 | QP | L1 | GND |

MEASUREMENT RESULT: "ESL03_fin2"

2016-6-1 15:11

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.158000 | 26.30 | 10.4 | 56 | 29.3 | AV | L1 | GND |
| 0.472000 | 31.10 | 11.4 | 47 | 15.4 | AV | L1 | GND |
| 0.490000 | 30.90 | 11.5 | 46 | 15.3 | AV | L1 | GND |
| 0.810000 | 23.90 | 11.6 | 46 | 22.1 | AV | L1 | GND |
| 1.738000 | 22.20 | 11.6 | 46 | 23.8 | AV | L1 | GND |
| 11.270000 | 13.00 | 11.9 | 50 | 37.0 | AV | L1 | GND |

Test mode : On (AC 240V/60Hz)

EUT mode : 500300

MEASUREMENT RESULT: "ESL02_fin"

2016-6-1 15:08

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.160000 | 37.90 | 10.4 | 66 | 27.6 | QP | L1 | GND |
| 0.272000 | 32.40 | 10.9 | 61 | 28.7 | QP | L1 | GND |
| 0.514000 | 32.90 | 11.5 | 56 | 23.1 | QP | L1 | GND |
| 1.202000 | 29.60 | 11.6 | 56 | 26.4 | QP | L1 | GND |
| 2.810000 | 24.20 | 11.7 | 56 | 31.8 | QP | L1 | GND |
| 11.144000 | 19.50 | 11.9 | 60 | 40.5 | QP | L1 | GND |

MEASUREMENT RESULT: "ESL02_fin2"

2016-6-1 15:08

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.160000 | 25.50 | 10.4 | 56 | 30.0 | AV | L1 | GND |
| 0.272000 | 23.90 | 10.9 | 51 | 27.2 | AV | L1 | GND |
| 0.514000 | 26.10 | 11.5 | 46 | 19.9 | AV | L1 | GND |
| 1.202000 | 23.60 | 11.6 | 46 | 22.4 | AV | L1 | GND |
| 2.810000 | 16.80 | 11.7 | 46 | 29.2 | AV | L1 | GND |
| 11.144000 | 12.60 | 11.9 | 50 | 37.4 | AV | L1 | GND |

MEASUREMENT RESULT: "ESL01_fin"

2016-6-1 15:05

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.162000 | 37.50 | 10.4 | 65 | 27.9 | QP | N | GND |
| 0.214000 | 33.80 | 10.7 | 63 | 29.2 | QP | N | GND |
| 0.510000 | 33.40 | 11.5 | 56 | 22.6 | QP | N | GND |
| 1.394000 | 28.60 | 11.6 | 56 | 27.4 | QP | N | GND |
| 2.738000 | 26.00 | 11.7 | 56 | 30.0 | QP | N | GND |
| 11.031500 | 19.30 | 11.9 | 60 | 40.7 | QP | N | GND |

MEASUREMENT RESULT: "ESL01_fin2"

2016-6-1 15:05

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.162000 | 25.20 | 10.4 | 55 | 30.2 | AV | N | GND |
| 0.214000 | 23.80 | 10.7 | 53 | 29.2 | AV | N | GND |
| 0.510000 | 26.20 | 11.5 | 46 | 19.8 | AV | N | GND |
| 1.394000 | 23.30 | 11.6 | 46 | 22.7 | AV | N | GND |
| 2.738000 | 19.00 | 11.7 | 46 | 27.0 | AV | N | GND |
| 11.031500 | 12.60 | 11.9 | 50 | 37.4 | AV | N | GND |

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

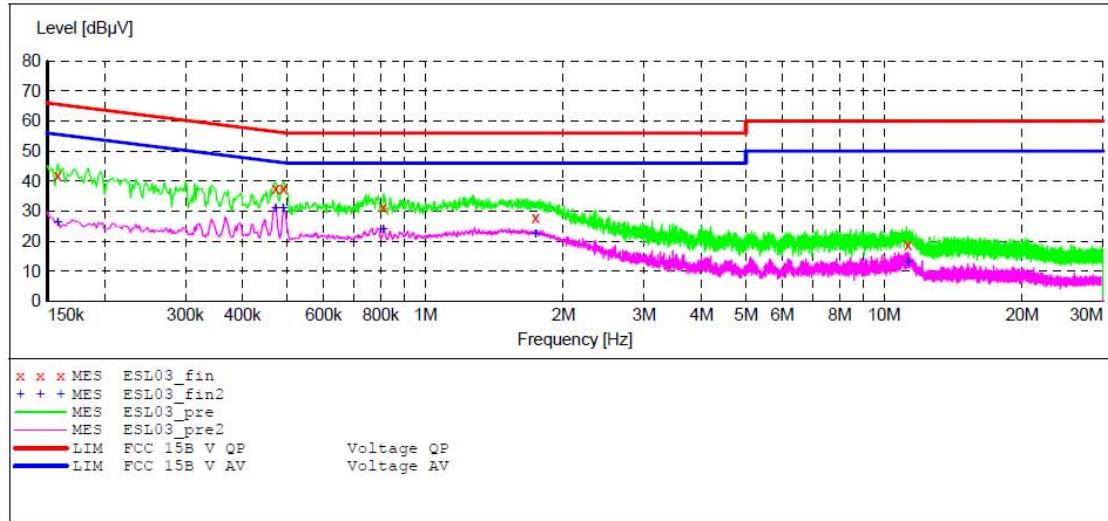
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SmartESL Accesspoint M/N:500300
 Manufacturer: findbox GmbH
 Operating Condition: ON
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20161077
 Start of Test: 2016-6-1 / 15:09:00

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "ESL03_fin"

| 2016-6-1 15:11 | Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
|----------------|-----------|-------|--------|-------|--------|----------|------|-----|
| | MHz | dBμV | dB | dBμV | dB | | | |
| | 0.158000 | 41.70 | 10.4 | 66 | 23.9 | QP | L1 | GND |
| | 0.472000 | 37.50 | 11.4 | 57 | 19.0 | QP | L1 | GND |
| | 0.490000 | 37.70 | 11.5 | 56 | 18.5 | QP | L1 | GND |
| | 0.810000 | 31.20 | 11.6 | 56 | 24.8 | QP | L1 | GND |
| | 1.738000 | 27.90 | 11.6 | 56 | 28.1 | QP | L1 | GND |
| | 11.270000 | 19.00 | 11.9 | 60 | 41.0 | QP | L1 | GND |

MEASUREMENT RESULT: "ESL03_fin2"

| 2016-6-1 15:11 | Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
|----------------|-----------|-------|--------|-------|--------|----------|------|-----|
| | MHz | dBμV | dB | dBμV | dB | | | |
| | 0.158000 | 26.30 | 10.4 | 56 | 29.3 | AV | L1 | GND |
| | 0.472000 | 31.10 | 11.4 | 47 | 15.4 | AV | L1 | GND |
| | 0.490000 | 30.90 | 11.5 | 46 | 15.3 | AV | L1 | GND |
| | 0.810000 | 23.90 | 11.6 | 46 | 22.1 | AV | L1 | GND |
| | 1.738000 | 22.20 | 11.6 | 46 | 23.8 | AV | L1 | GND |
| | 11.270000 | 13.00 | 11.9 | 50 | 37.0 | AV | L1 | GND |

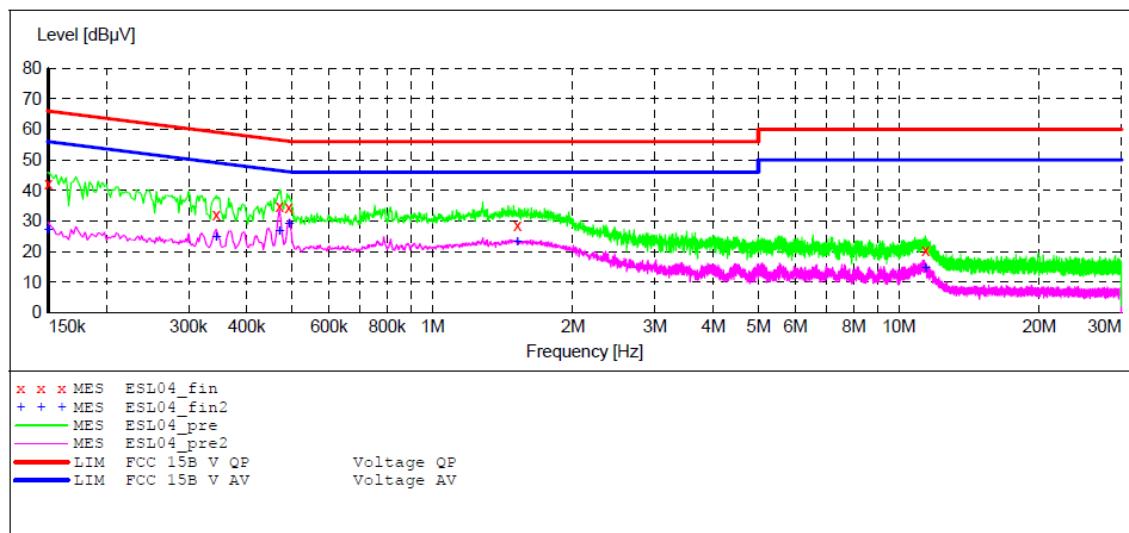
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SmartESL Accesspoint M/N:500300
 Manufacturer: findbox GmbH
 Operating Condition: ON
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20161077
 Start of Test: 2016-6-1 / 15:11:54

SCAN TABLE: "V 150K-30MHz fin"

Short Description: -SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "ESL04_fin"

| 2016-6-1 15:14 | Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
|----------------|-----------|------------|--------|------------|--------|----------|------|-----|
| | MHz | dB μ V | dB | dB μ V | dB | | | |
| | 0.150000 | 42.40 | 10.3 | 66 | 23.6 | QP | N | GND |
| | 0.344000 | 32.00 | 11.1 | 59 | 27.1 | QP | N | GND |
| | 0.470000 | 34.80 | 11.4 | 57 | 21.7 | QP | N | GND |
| | 0.492000 | 34.50 | 11.5 | 56 | 21.6 | QP | N | GND |
| | 1.520000 | 28.50 | 11.6 | 56 | 27.5 | QP | N | GND |
| | 11.405000 | 20.40 | 11.9 | 60 | 39.6 | QP | N | GND |

MEASUREMENT RESULT: "ESL04_fin2"

| 2016-6-1 15:14 | Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
|----------------|-----------|------------|--------|------------|--------|----------|------|-----|
| | MHz | dB μ V | dB | dB μ V | dB | | | |
| | 0.150000 | 27.10 | 10.3 | 56 | 28.9 | AV | N | GND |
| | 0.344000 | 24.60 | 11.1 | 49 | 24.5 | AV | N | GND |
| | 0.470000 | 26.80 | 11.4 | 47 | 19.7 | AV | N | GND |
| | 0.492000 | 28.80 | 11.5 | 46 | 17.3 | AV | N | GND |
| | 1.520000 | 23.10 | 11.6 | 46 | 22.9 | AV | N | GND |
| | 11.405000 | 14.50 | 11.9 | 50 | 35.5 | AV | N | GND |

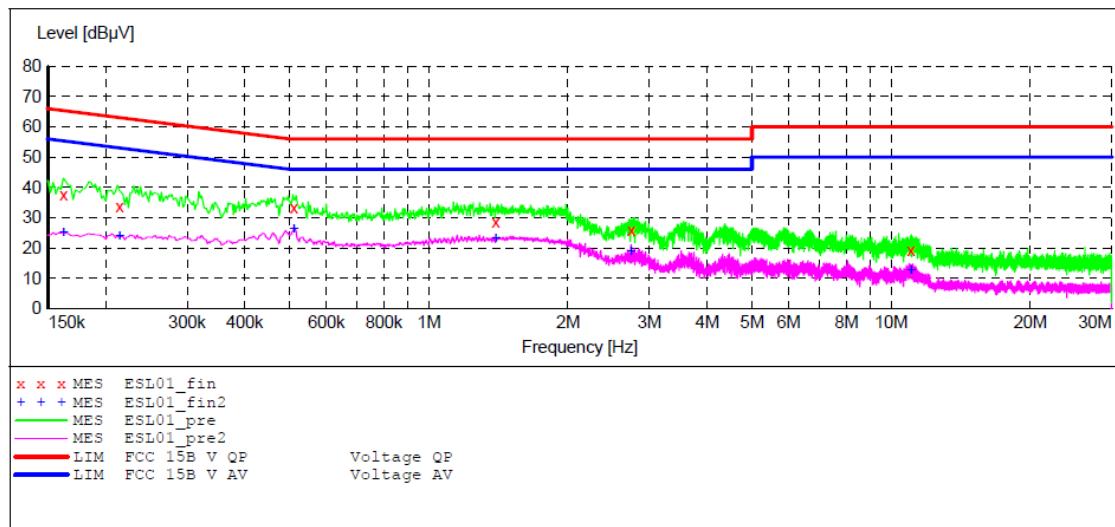
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SmartESL Accesspoint M/N:500300
 Manufacturer: findbox GmbH
 Operating Condition: ON
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 240V/60Hz
 Comment: Report No.:ATE20161077
 Start of Test: 2016-6-1 / 15:00:00

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "ESL01_fin"

| 2016-6-1 15:05 | Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
|----------------|-----------|------------|--------|------------|--------|----------|------|-----|
| | MHz | dB μ V | dB | dB μ V | dB | | | |
| | 0.162000 | 37.50 | 10.4 | 65 | 27.9 | QP | N | GND |
| | 0.214000 | 33.80 | 10.7 | 63 | 29.2 | QP | N | GND |
| | 0.510000 | 33.40 | 11.5 | 56 | 22.6 | QP | N | GND |
| | 1.394000 | 28.60 | 11.6 | 56 | 27.4 | QP | N | GND |
| | 2.738000 | 26.00 | 11.7 | 56 | 30.0 | QP | N | GND |
| | 11.031500 | 19.30 | 11.9 | 60 | 40.7 | QP | N | GND |

MEASUREMENT RESULT: "ESL01_fin2"

| 2016-6-1 15:05 | Frequency | Level | Transd | Limit | Margin | Detector | Line | PE |
|----------------|-----------|------------|--------|------------|--------|----------|------|-----|
| | MHz | dB μ V | dB | dB μ V | dB | | | |
| | 0.162000 | 25.20 | 10.4 | 55 | 30.2 | AV | N | GND |
| | 0.214000 | 23.80 | 10.7 | 53 | 29.2 | AV | N | GND |
| | 0.510000 | 26.20 | 11.5 | 46 | 19.8 | AV | N | GND |
| | 1.394000 | 23.30 | 11.6 | 46 | 22.7 | AV | N | GND |
| | 2.738000 | 19.00 | 11.7 | 46 | 27.0 | AV | N | GND |
| | 11.031500 | 12.60 | 11.9 | 50 | 37.4 | AV | N | GND |

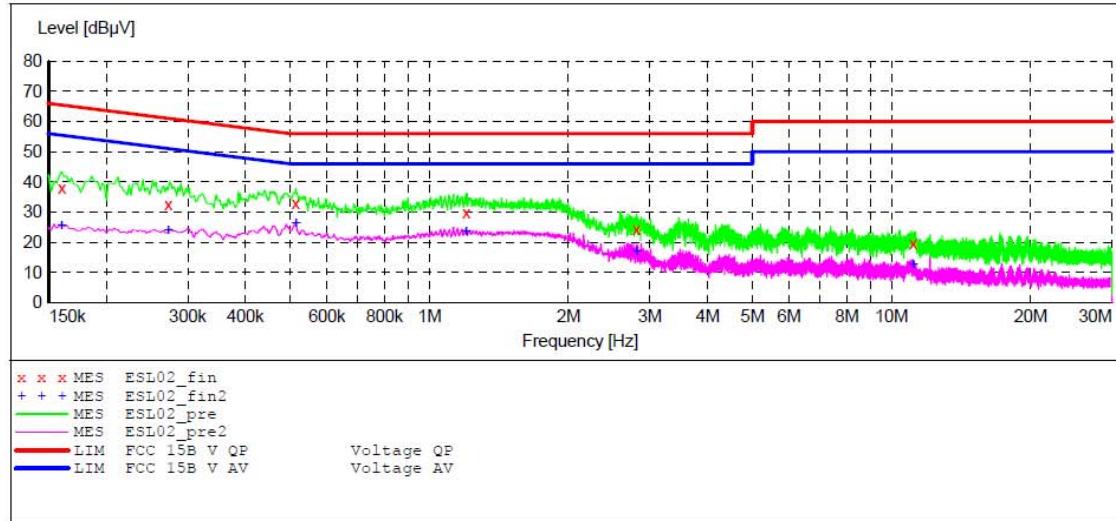
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: SmartESL Accesspoint M/N:500300
 Manufacturer: findbox GmbH
 Operating Condition: ON
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 240V/60Hz
 Comment: Report No.:ATE20161077
 Start of Test: 2016-6-1 / 15:06:11

SCAN TABLE: "V 150K-30MHz fin"

Short Description: SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "ESL02_fin"

2016-6-1 15:08

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.160000 | 37.90 | 10.4 | 66 | 27.6 | QP | L1 | GND |
| 0.272000 | 32.40 | 10.9 | 61 | 28.7 | QP | L1 | GND |
| 0.514000 | 32.90 | 11.5 | 56 | 23.1 | QP | L1 | GND |
| 1.202000 | 29.60 | 11.6 | 56 | 26.4 | QP | L1 | GND |
| 2.810000 | 24.20 | 11.7 | 56 | 31.8 | QP | L1 | GND |
| 11.144000 | 19.50 | 11.9 | 60 | 40.5 | QP | L1 | GND |

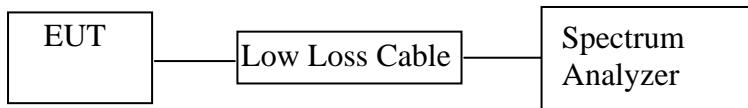
MEASUREMENT RESULT: "ESL02_fin2"

2016-6-1 15:08

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.160000 | 25.50 | 10.4 | 56 | 30.0 | AV | L1 | GND |
| 0.272000 | 23.90 | 10.9 | 51 | 27.2 | AV | L1 | GND |
| 0.514000 | 26.10 | 11.5 | 46 | 19.9 | AV | L1 | GND |
| 1.202000 | 23.60 | 11.6 | 46 | 22.4 | AV | L1 | GND |
| 2.810000 | 16.80 | 11.7 | 46 | 29.2 | AV | L1 | GND |
| 11.144000 | 12.60 | 11.9 | 50 | 37.4 | AV | L1 | GND |

6. 20DB BANDWIDTH TEST

6.1. Block Diagram of Test Setup



(EUT: SmartESL Accesspoint)

6.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

6.3. EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 5.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 902.5-927.5MHz. We select 902.5MHz, 914.75MHz, and 927.5MHz TX frequency to transmit.

6.5. Test Procedure

6.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.2. Set RBW of spectrum analyzer to 30 kHz and VBW to 100 kHz.

6.5.3. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

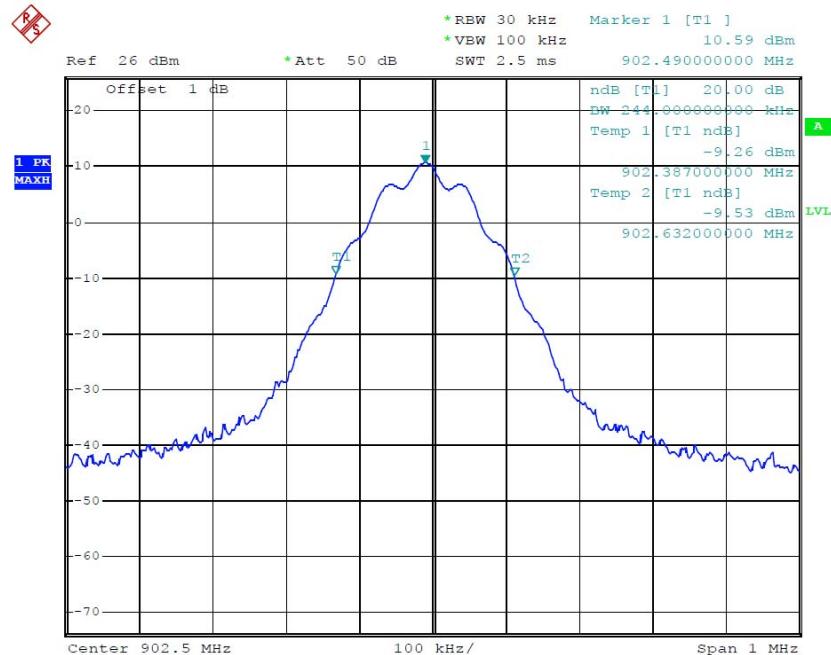
6.6. Test Result

| Channel | Frequency (MHz) | FSK 20dB Bandwidth (MHz) | Limit (MHz) | Result |
|---------|--------------------|--------------------------------|----------------|--------|
| Low | 902.5 | 0.244 | 0.5 | Pass |
| Middle | 914.75 | 0.244 | 0.5 | Pass |
| High | 927.5 | 0.242 | 0.5 | Pass |

The spectrum analyzer plots are attached as below.

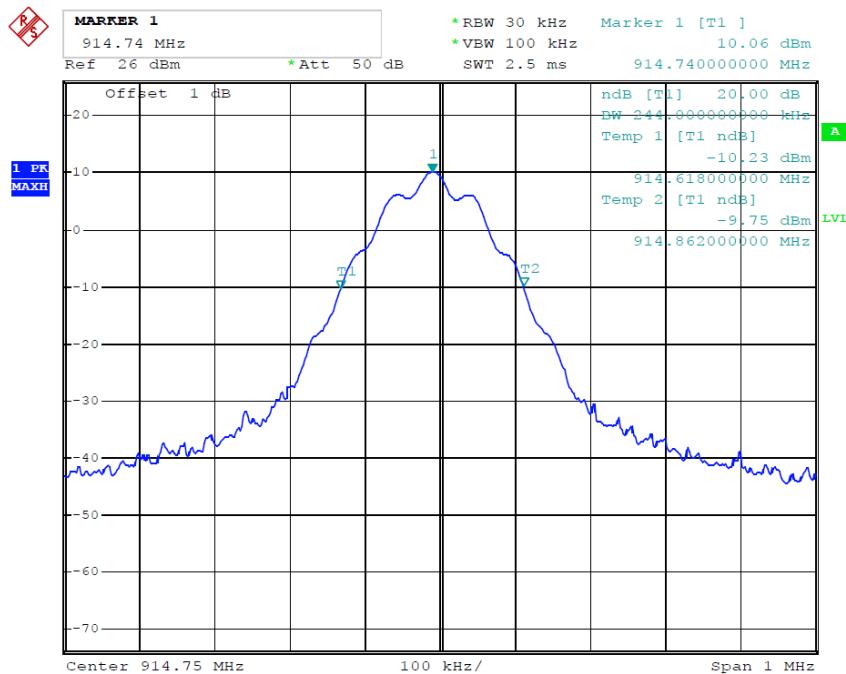
FSK Mode

Low channel



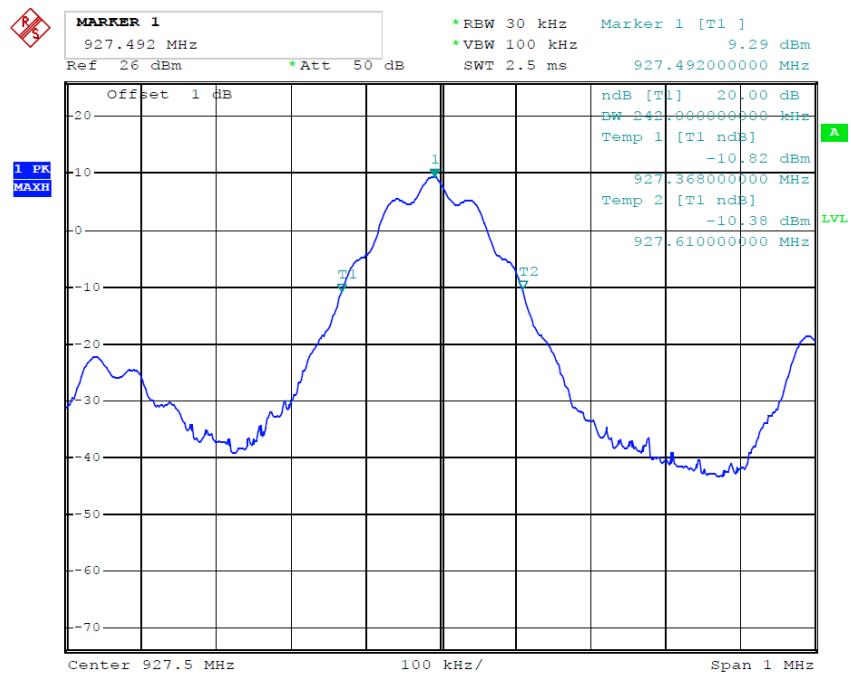
Date: 1.JUN.2016 21:34:07

Middle channel



Date: 1.JUN.2016 21:36:36

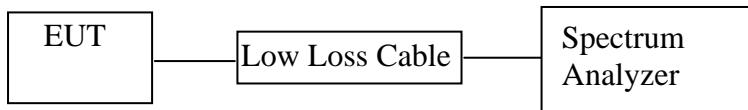
High channel



Date: 1.JUN.2016 22:03:30

7. CARRIER FREQUENCY SEPARATION TEST

7.1. Block Diagram of Test Setup



(EUT: SmartESL Accesspoint)

7.2. The Requirement For Section 15.247(a)(1)

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 902-928 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

7.3. EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 6.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 902.5-927.5MHz. We select 902.5MHz, 914.75MHz, and 927.5MHz TX frequency to transmit.

7.5. Test Procedure

- 7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 7.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz. Adjust Span to 500kHz.
- 7.5.3. Set the adjacent channel of the EUT maxhold another trace.
- 7.5.4. Measurement the channel separation

7.6. Test Result

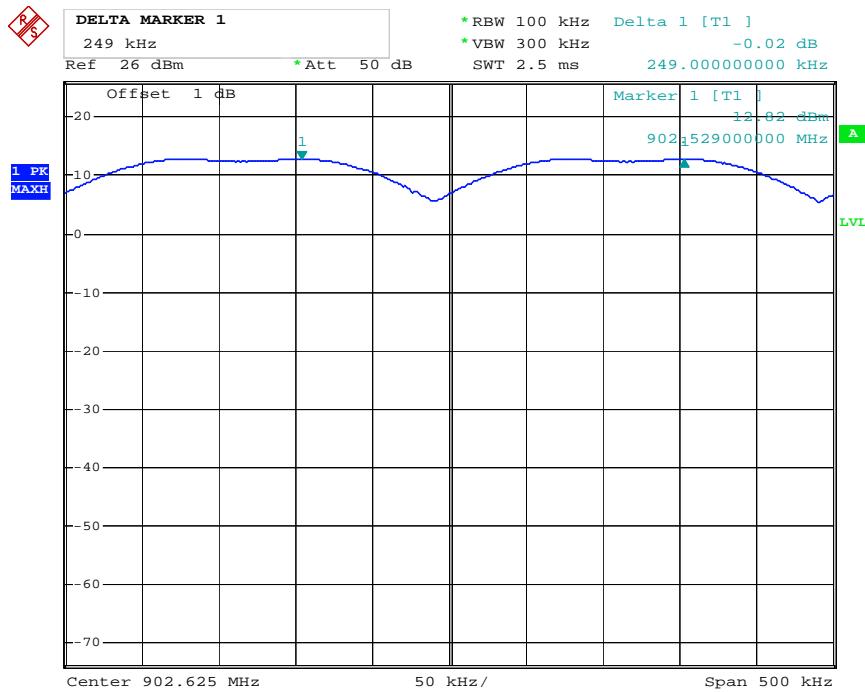
FSK

| Channel | Frequency (MHz) | Channel Separation(MHz) | Result |
|---------|-----------------|-------------------------|--------|
| Low | 902.5 | 0.248 | PASS |
| | 902.75 | | |
| Middle | 914.50 | 0.249 | PASS |
| | 914.75 | | |
| High | 927.25 | 0.249 | PASS |
| | 927.5 | | |

The spectrum analyzer plots are attached as below.

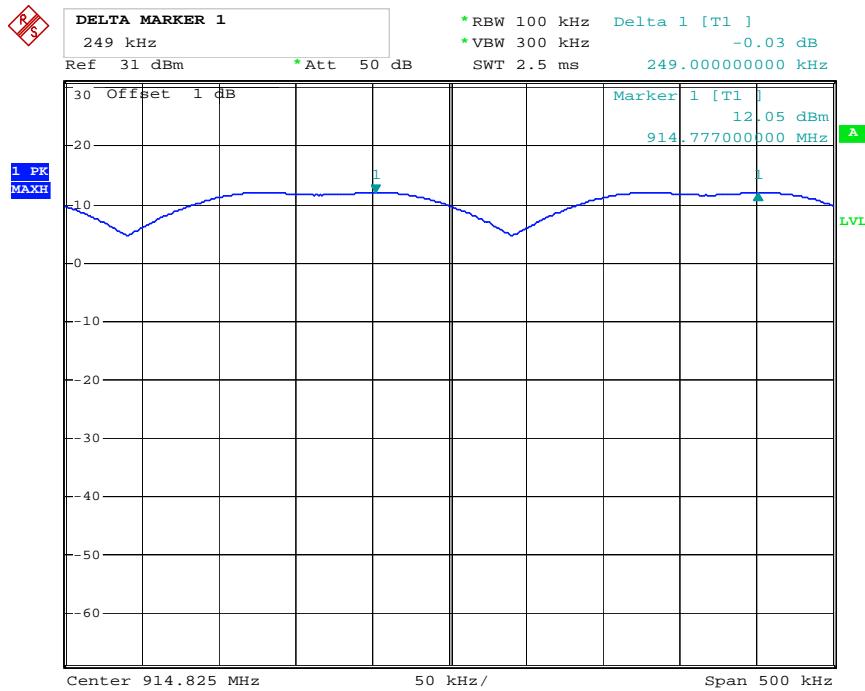
FSK Mode

Low channel



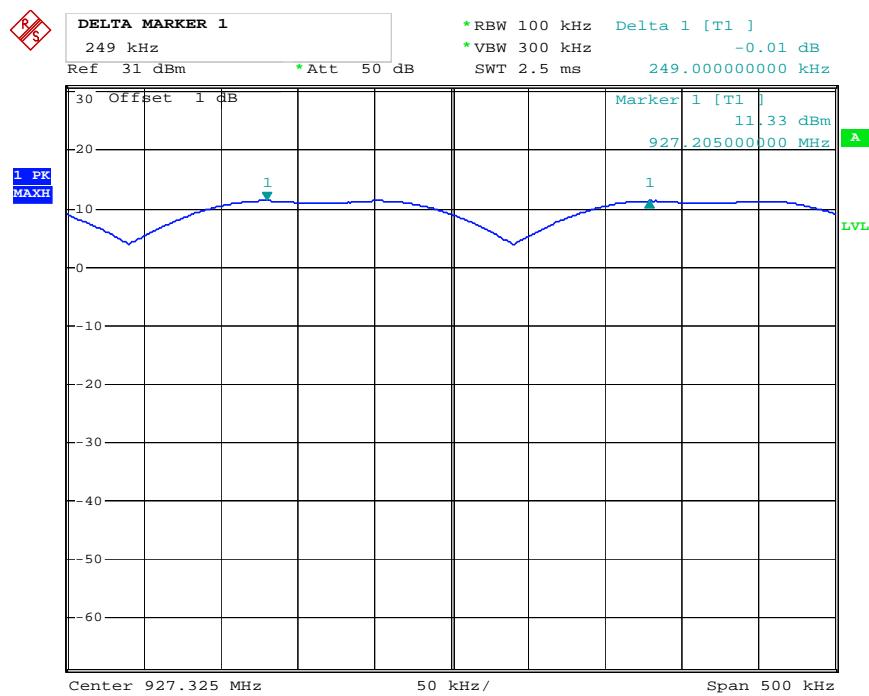
Date: 1.JUN.2016 22:20:30

Middle channel



Date: 1.JUN.2016 23:16:01

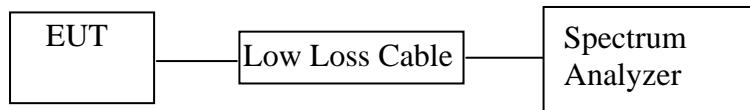
High channel



Date: 1.JUN.2016 23:17:08

8. NUMBER OF HOPPING FREQUENCY TEST

8.1. Block Diagram of Test Setup



(EUT: SmartESL Accesspoint)

8.2. Limit

If the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

8.3. EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 7.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX (Hopping on) modes measure it.

8.5. Test Procedure

8.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

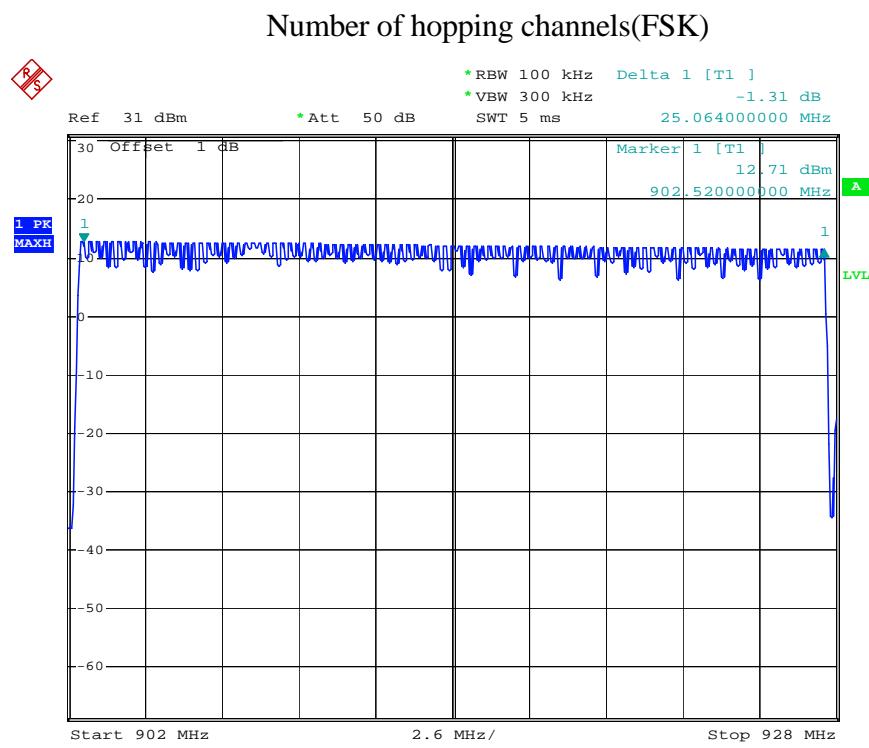
8.5.2. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz.

8.5.3. Max hold, view and count how many channel in the band.

8.6. Test Result

| Total number of hopping channel | Measurement result(CH) | Limit(CH) |
|---------------------------------|------------------------|-----------|
| | 101 | ≥ 50 |

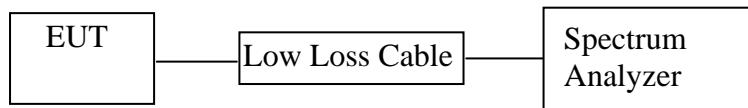
The spectrum analyzer plots are attached as below.



Date: 1.JUN.2016 23:14:04

9. DWELL TIME TEST

9.1. Block Diagram of Test Setup



(EUT: SmartESL Accesspoint)

9.2. Limit

if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period.

9.3. EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.4. Operating Condition of EUT

9.4.1. Setup the EUT and simulator as shown as Section 8.1.

9.4.2. Turn on the power of all equipment.

9.4.3. Let the EUT work in TX (Hopping on) modes measure it. The transmit frequency are 902.5-927.5MHz. We select 902.5MHz, 914.75MHz, and 927.5MHz TX frequency to transmit.

9.5. Test Procedure

9.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

9.5.2. Set center frequency of spectrum analyzer = operating frequency.

9.5.3. Set the spectrum analyzer as RBW=100kHz, VBW=300kHz, Span=0Hz, Adjust Sweep=20s. Get the pulse time.

9.5.4. Repeat above procedures until all frequency measured were complete.

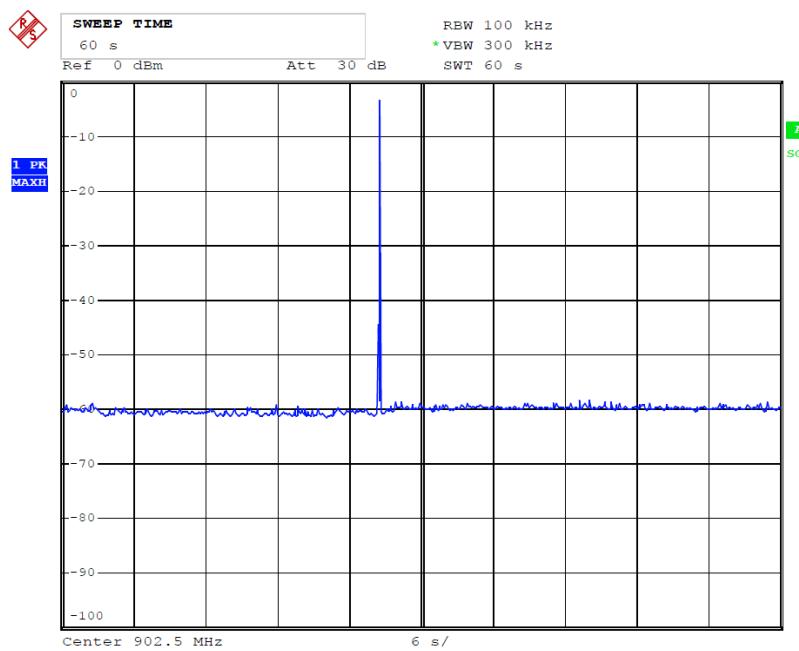
9.6.Photos of Dwell time Measurement

In the connection mode RFID uses 101 channels,As defined in 15.247,a 1 I, the limit for time of occupancy is 0.4s over time of 20s.

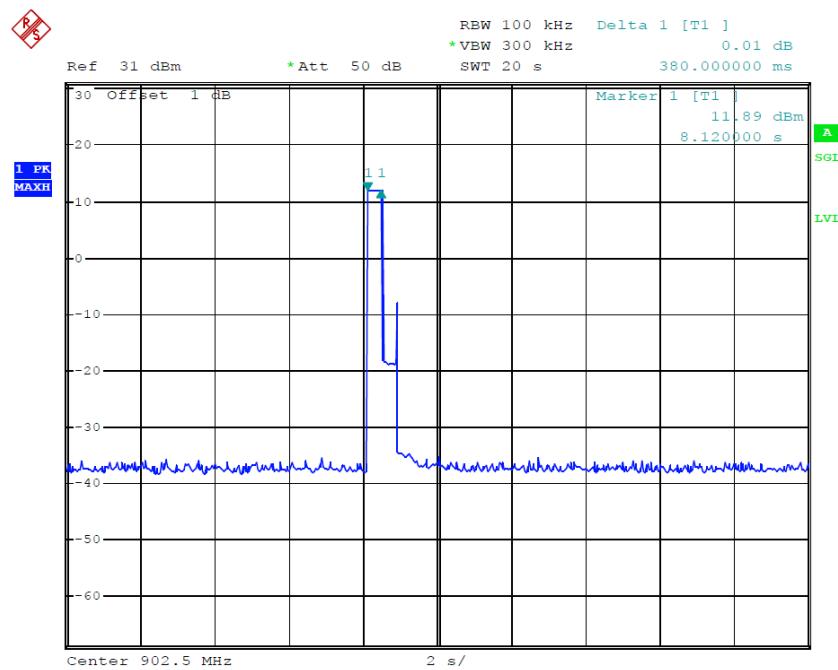
9.7.Test Result

| Modulation Mode | Channel Frequency (MHz) | No. of burst | Pulse Width (ms) | Dwell time (ms) | Limit (ms) | Verdict |
|-----------------|-------------------------|--------------|------------------|-----------------|------------|---------|
| FSK | 902.5 | 1 | 380 | 380 | 400 | Pass |

$$\text{Dwell Time} = \text{No. of burst} * \text{Pulse Width}$$



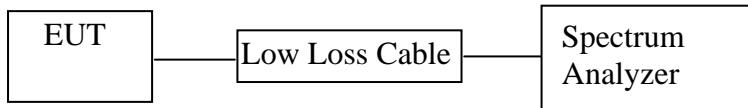
Date: 1.JUN.2016 23:20:23



Date: 1.JUN.2016 23:26:23

10. MAXIMUM PEAK OUTPUT POWER TEST

10.1. Block Diagram of Test Setup



(EUT: SmartESL Accesspoint)

10.2. Limit

For frequency hopping systems operating in the 902–928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under para-graph (a)(1)(i) of this section. the maximum output power should not exceed 29dBm.

10.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.4. Operating Condition of EUT

10.4.1. Setup the EUT and simulator as shown as Section 9.1.

10.4.2. Turn on the power of all equipment.

10.4.3. Let the EUT work in TX (Hopping off) modes measure it. The transmit frequency are 902.5-927.5MHz. We select 902.5MHz, 914.75MHz, and 927.5MHz TX frequency to transmit.

10.5. Test Procedure

10.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

10.5.2. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz for FSK mode

10.5.3. Set RBW of spectrum analyzer to 3MHz and VBW to 3MHz for other mode

10.5.4. Measurement the maximum peak output power.

10.6. Test Result

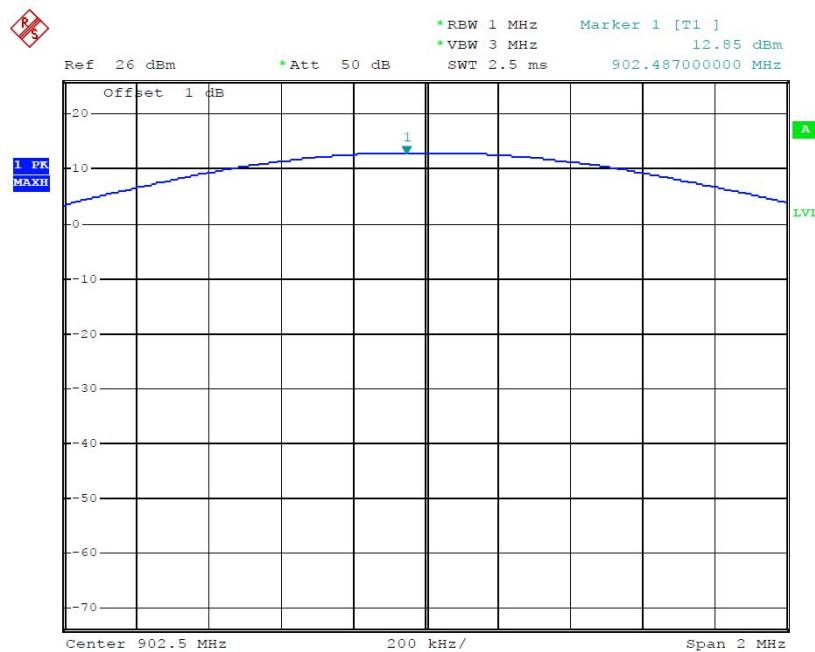
FSK Mode

| Channel | Frequency (MHz) | Peak Output Power (dBm/W) | Limits dBm / W |
|---------|-----------------|---------------------------|----------------|
| Low | 902.5 | 12.85/0.0193 | 30/ 1 |
| Middle | 914.75 | 12.27/0.0169 | 30/ 1 |
| High | 927.5 | 11.48 /0.0141 | 30/ 1 |

The spectrum analyzer plots are attached as below.

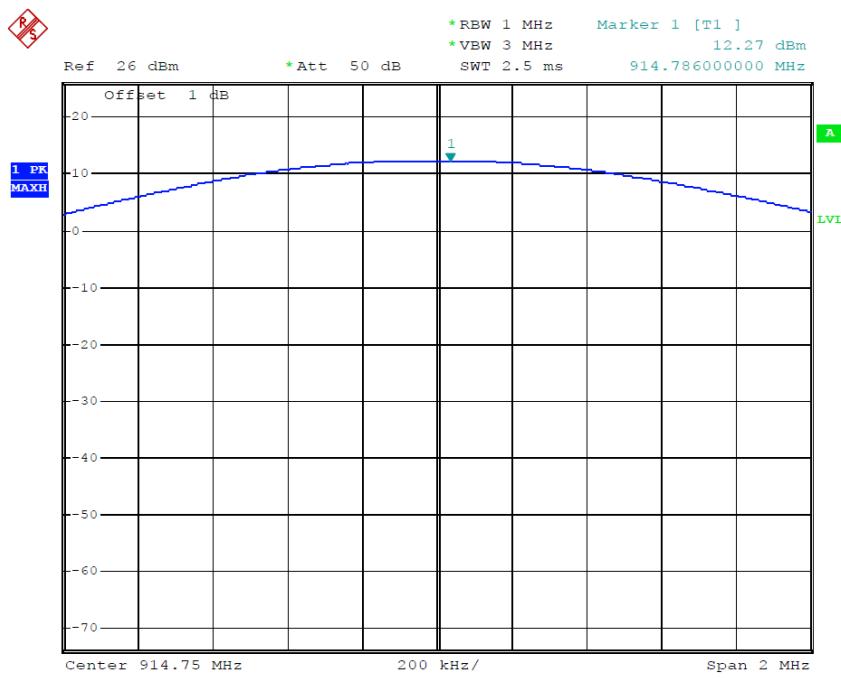
FSK Mode

Low channel



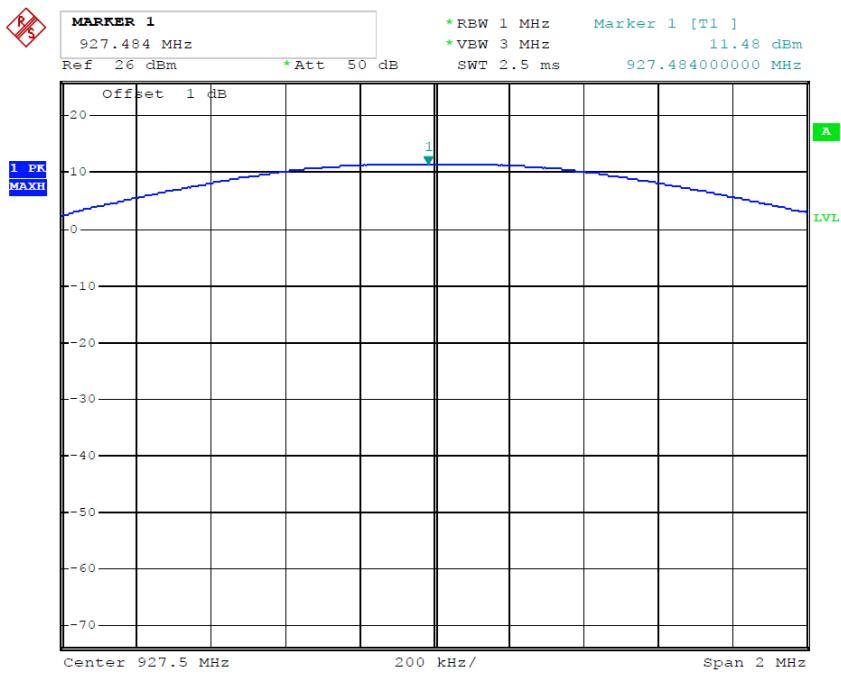
Date: 1.JUN.2016 21:34:26

Middle channel



Date: 1.JUN.2016 21:36:14

High channel



Date: 1.JUN.2016 22:03:51

11. RADIATED EMISSION TEST

11.1. Block Diagram of Test Setup

11.1.1. Block diagram of connection between the EUT and peripherals

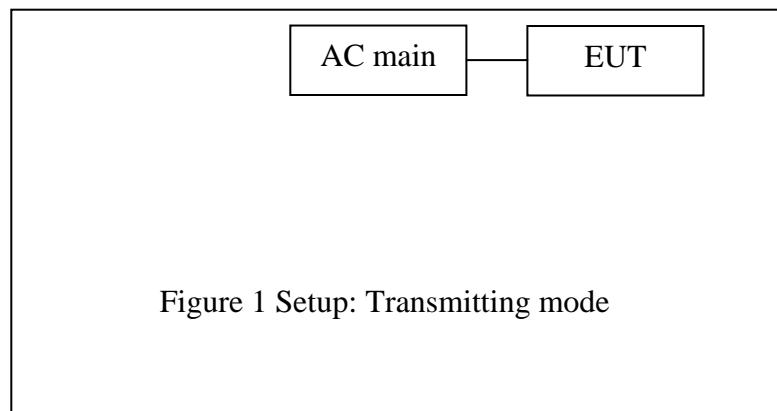
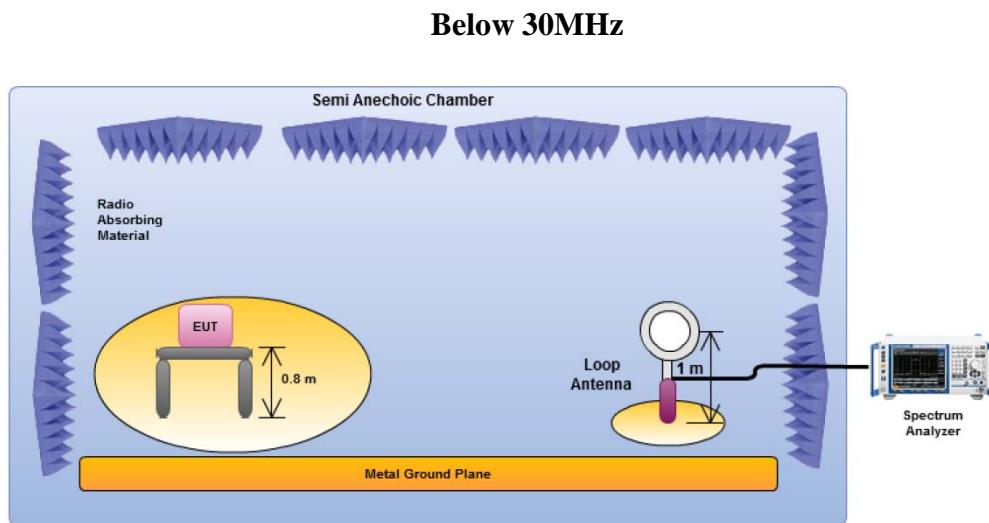


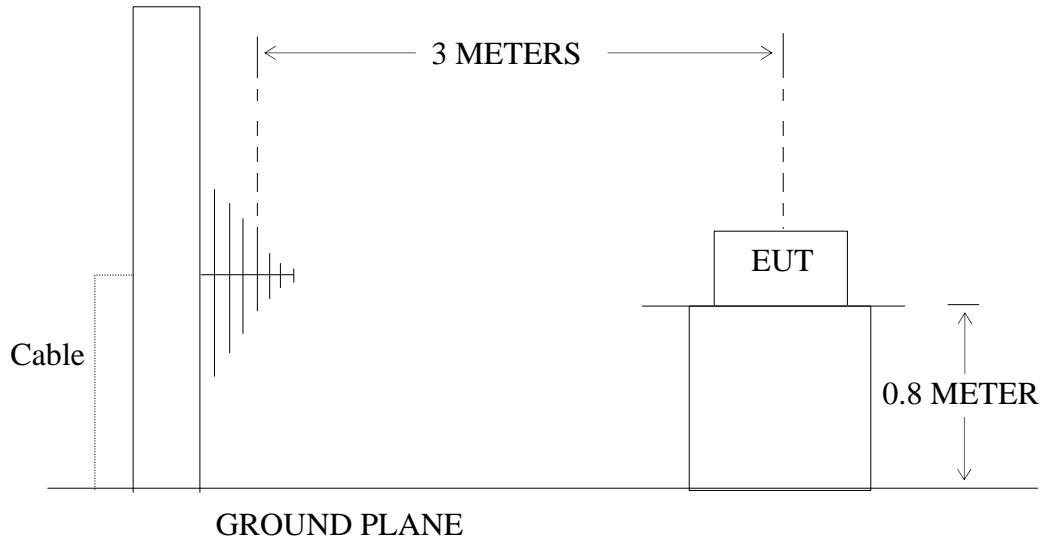
Figure 1 Setup: Transmitting mode

11.1.2. Semi-Anechoic Chamber Test Setup Diagram

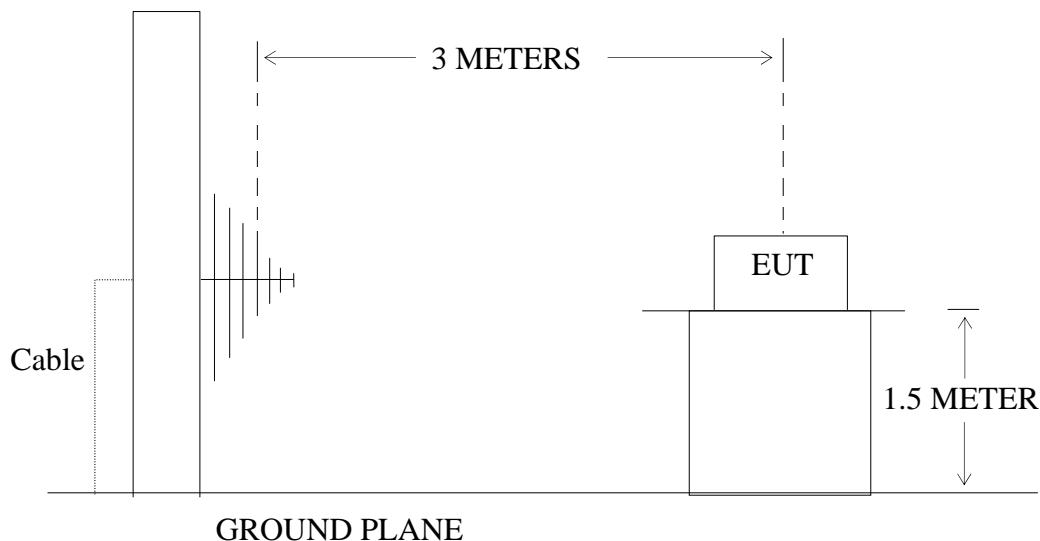


30MHz-1GHz

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS

**Above 1GHz**

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS

**11.2.The Limit For Section 15.247(d)**

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the

transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

11.3. Restricted bands of operation

11.3.1. FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| ¹ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (²) |
| 13.36-13.41 | | | |

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

11.4. Configuration of EUT on Measurement

The equipment is installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground(Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

11.6. The Field Strength of Radiation Emission Measurement Results

Below 1GHz



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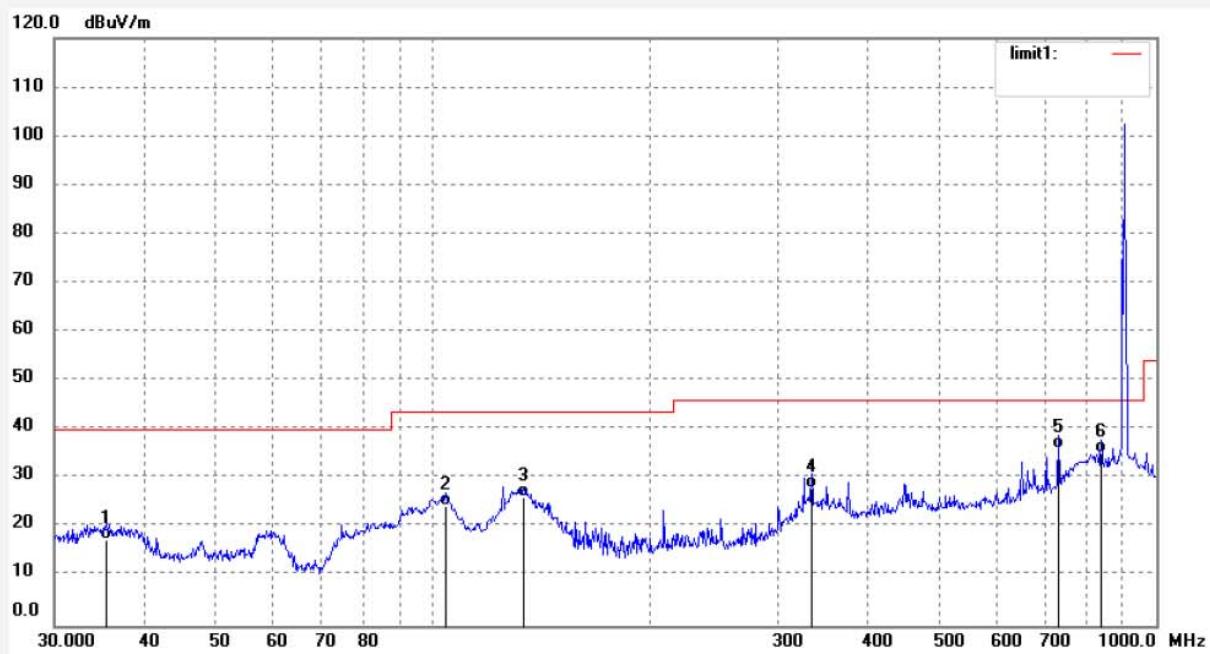
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

| | |
|-----------------------------------|----------------------------|
| Job No.: STAR2015 #1244 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2016-5-31 |
| Temp.(C)/Hum.(%) 23 C / 48 % | Time: 18:35:42 |
| EUT: SmartESL Accesspoint | Engineer Signature: Star |
| Mode: TX 902.5MHz | Distance: 3m |
| Model: 500300 | |
| Manufacturer: findbox GmbH | |
| Note: Report NO.:ATE20161077 | |



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 35.3750 | 28.04 | -10.50 | 17.54 | 40.00 | -22.46 | QP | | | |
| 2 | 104.1701 | 38.14 | -13.81 | 24.33 | 43.50 | -19.17 | QP | | | |
| 3 | 133.6184 | 40.21 | -14.02 | 26.19 | 43.50 | -17.31 | QP | | | |
| 4 | 333.6865 | 36.47 | -8.28 | 28.19 | 46.00 | -17.81 | QP | | | |
| 5 | 731.9202 | 37.41 | -1.33 | 36.08 | 46.00 | -9.92 | QP | | | |
| 6 | 839.1816 | 34.57 | 0.64 | 35.21 | 46.00 | -10.79 | QP | | | |



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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR2015 #1245

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016-5-31

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 18:37:22

EUT: SmartESL Accesspoint

Engineer Signature: Star

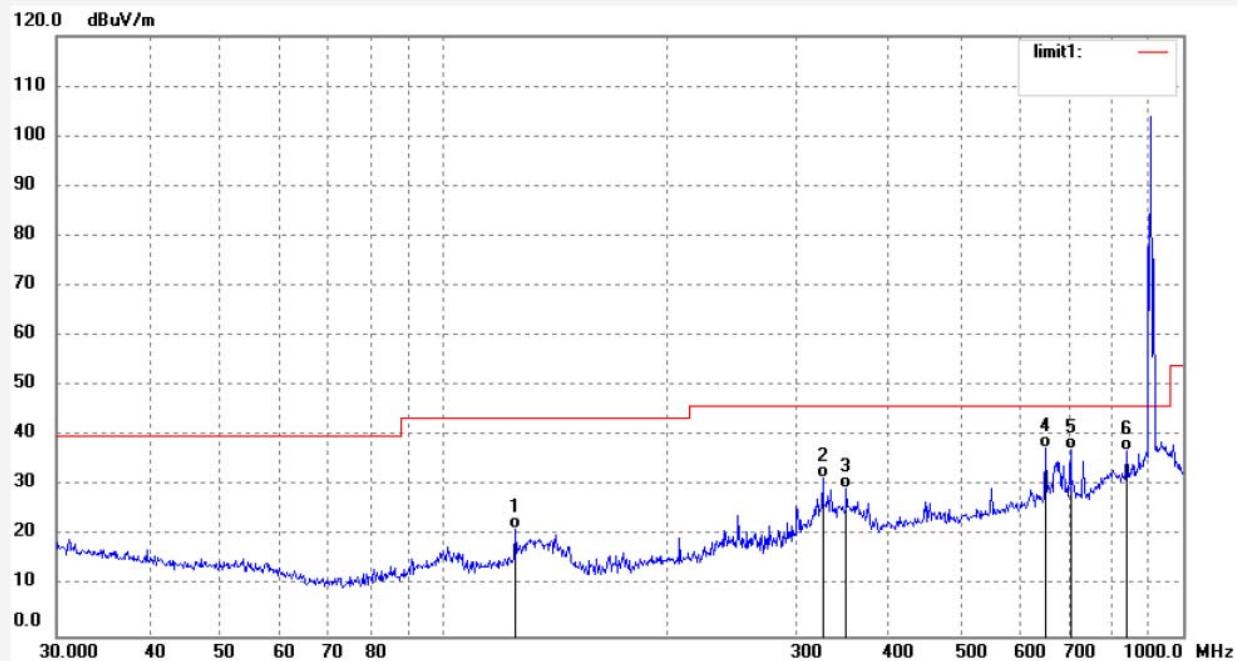
Mode: TX 902.5MHz

Distance: 3m

Model: 500300

Manufacturer: findbox GmbH

Note: Report NO.:ATE20161077



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 125.0066 | 35.29 | -13.73 | 21.56 | 43.50 | -21.94 | QP | | | |
| 2 | 325.5957 | 40.21 | -8.51 | 31.70 | 46.00 | -14.30 | QP | | | |
| 3 | 350.4768 | 37.35 | -7.75 | 29.60 | 46.00 | -16.40 | QP | | | |
| 4 | 651.9415 | 40.19 | -2.40 | 37.79 | 46.00 | -8.21 | QP | | | |
| 5 | 704.2259 | 39.05 | -1.66 | 37.39 | 46.00 | -8.61 | QP | | | |
| 6 | 839.1816 | 36.44 | 0.64 | 37.08 | 46.00 | -8.92 | QP | | | |



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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR2015 #1246

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016-5-31

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 18:43:26

EUT: SmartESL Accesspoint

Engineer Signature: Star

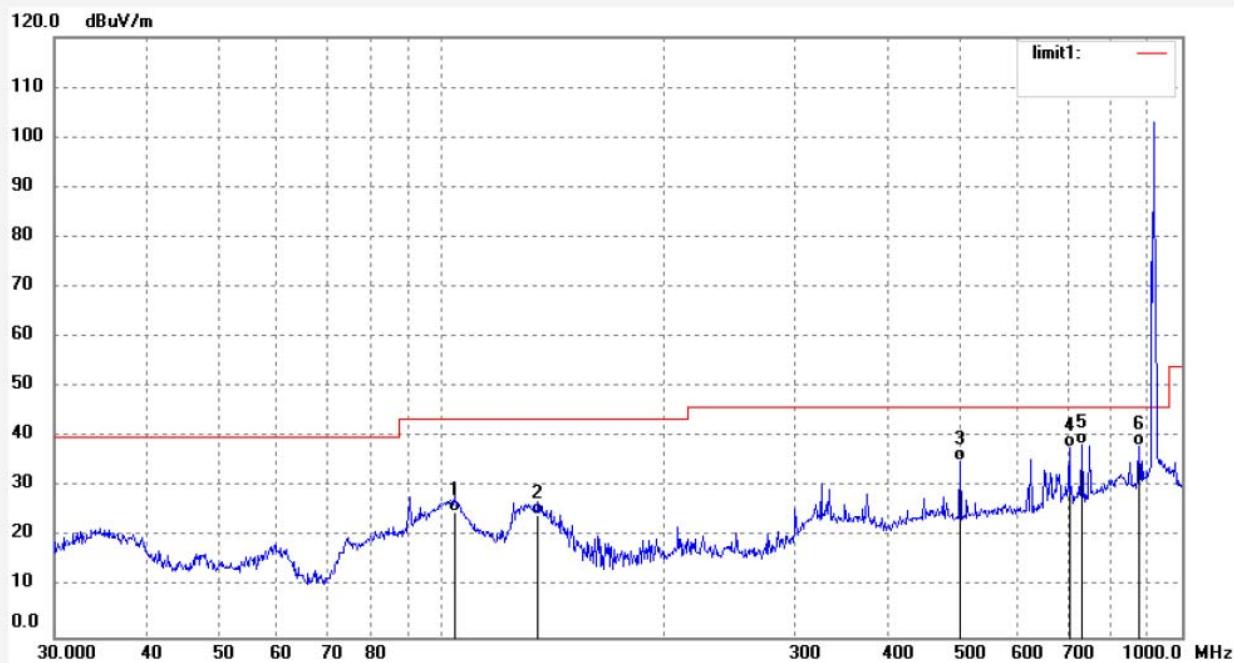
Mode: TX 914.75MHz

Distance: 3m

Model: 500300

Manufacturer: findbox GmbH

Note: Report NO.:ATE20161077



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 104.1701 | 39.00 | -13.81 | 25.19 | 43.50 | -18.31 | QP | | | |
| 2 | 135.0319 | 38.47 | -14.08 | 24.39 | 43.50 | -19.11 | QP | | | |
| 3 | 501.1788 | 40.13 | -4.83 | 35.30 | 46.00 | -10.70 | QP | | | |
| 4 | 704.2259 | 39.60 | -1.66 | 37.94 | 46.00 | -8.06 | QP | | | |
| 5 | 731.9202 | 39.95 | -1.33 | 38.62 | 46.00 | -7.38 | QP | | | |
| 6 | 875.2468 | 37.17 | 1.11 | 38.28 | 46.00 | -7.72 | QP | | | |



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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR2015 #1247

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016-5-31

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 18:44:38

EUT: SmartESL Accesspoint

Engineer Signature: Star

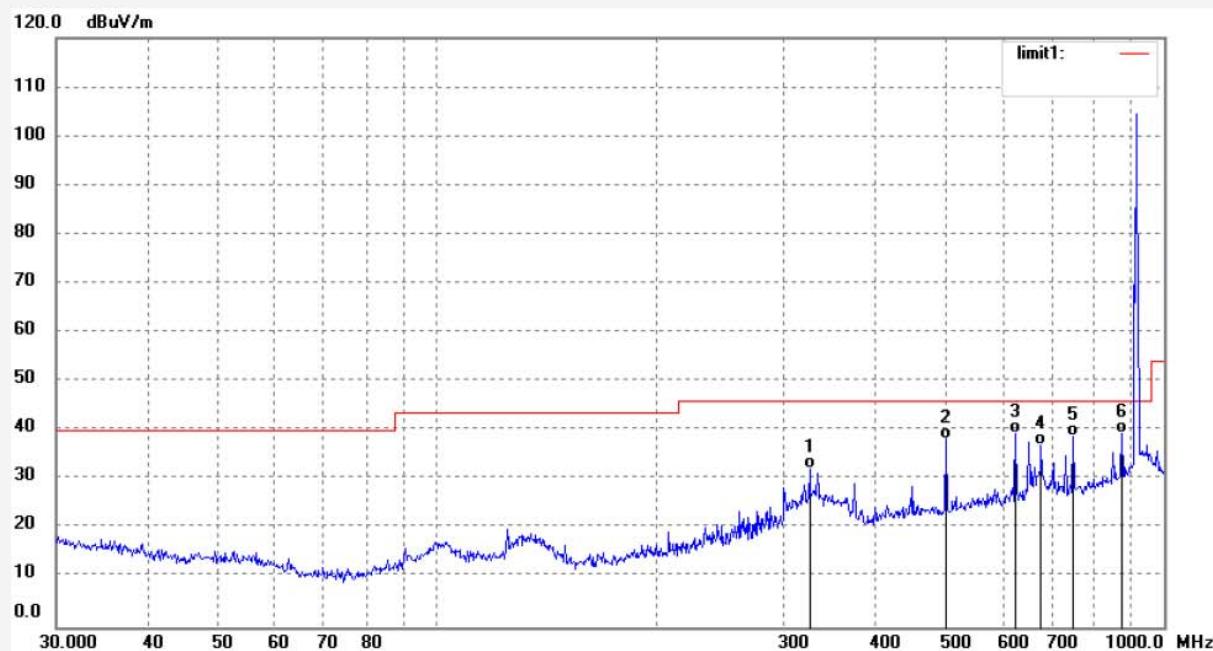
Mode: TX 914.75MHz

Distance: 3m

Model: 500300

Manufacturer: findbox GmbH

Note: Report NO.:ATE20161077



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 325.5957 | 40.68 | -8.51 | 32.17 | 46.00 | -13.83 | QP | | | |
| 2 | 501.1788 | 43.12 | -4.83 | 38.29 | 46.00 | -7.71 | QP | | | |
| 3 | 625.0778 | 42.19 | -2.61 | 39.58 | 46.00 | -6.42 | QP | | | |
| 4 | 677.5797 | 38.99 | -2.04 | 36.95 | 46.00 | -9.05 | QP | | | |
| 5 | 750.1082 | 39.92 | -1.03 | 38.89 | 46.00 | -7.11 | QP | | | |
| 6 | 875.2468 | 38.38 | 1.11 | 39.49 | 46.00 | -6.51 | QP | | | |



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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR2015 #1248

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016-5-31

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 18:46:53

EUT: SmartESL Accesspoint

Engineer Signature: Star

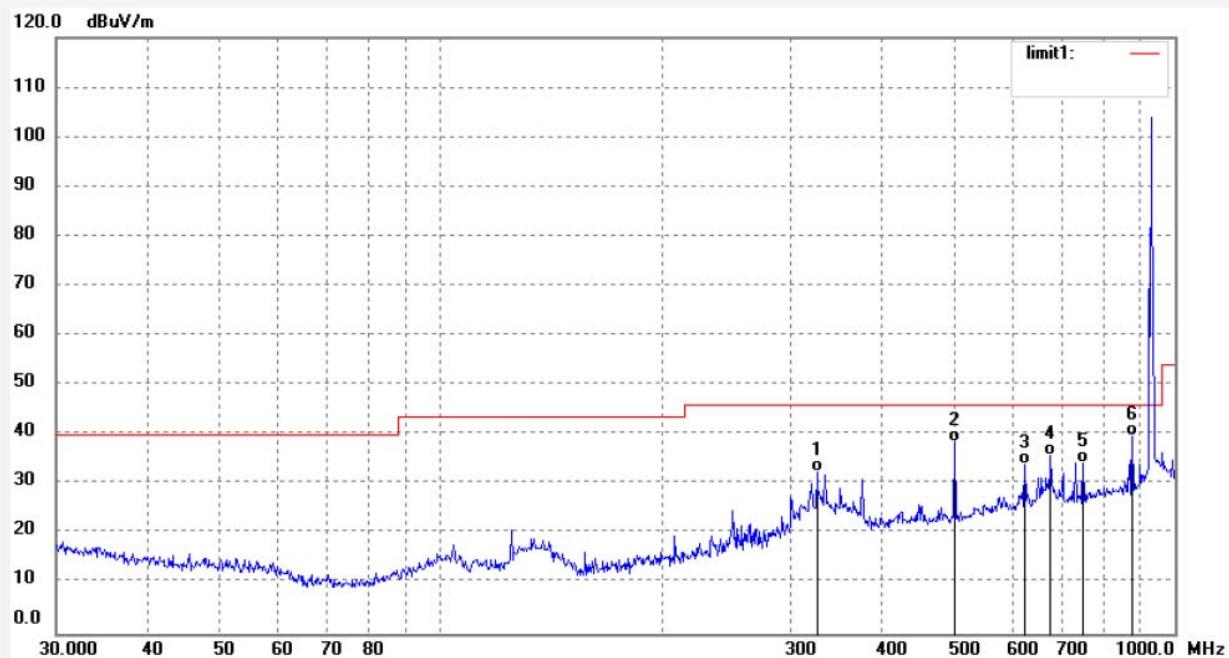
Mode: TX 927.5MHz

Distance: 3m

Model: 500300

Manufacturer: findbox GmbH

Note: Report NO.:ATE20161077



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 325.5957 | 41.03 | -8.51 | 32.52 | 46.00 | -13.48 | QP | | | |
| 2 | 501.1788 | 43.30 | -4.83 | 38.47 | 46.00 | -7.53 | QP | | | |
| 3 | 625.0778 | 36.69 | -2.61 | 34.08 | 46.00 | -11.92 | QP | | | |
| 4 | 677.5797 | 38.01 | -2.04 | 35.97 | 46.00 | -10.03 | QP | | | |
| 5 | 750.1082 | 35.28 | -1.03 | 34.25 | 46.00 | -11.75 | QP | | | |
| 6 | 875.2468 | 38.71 | 1.11 | 39.82 | 46.00 | -6.18 | QP | | | |



ACCURATE TECHNOLOGY CO., LTD.

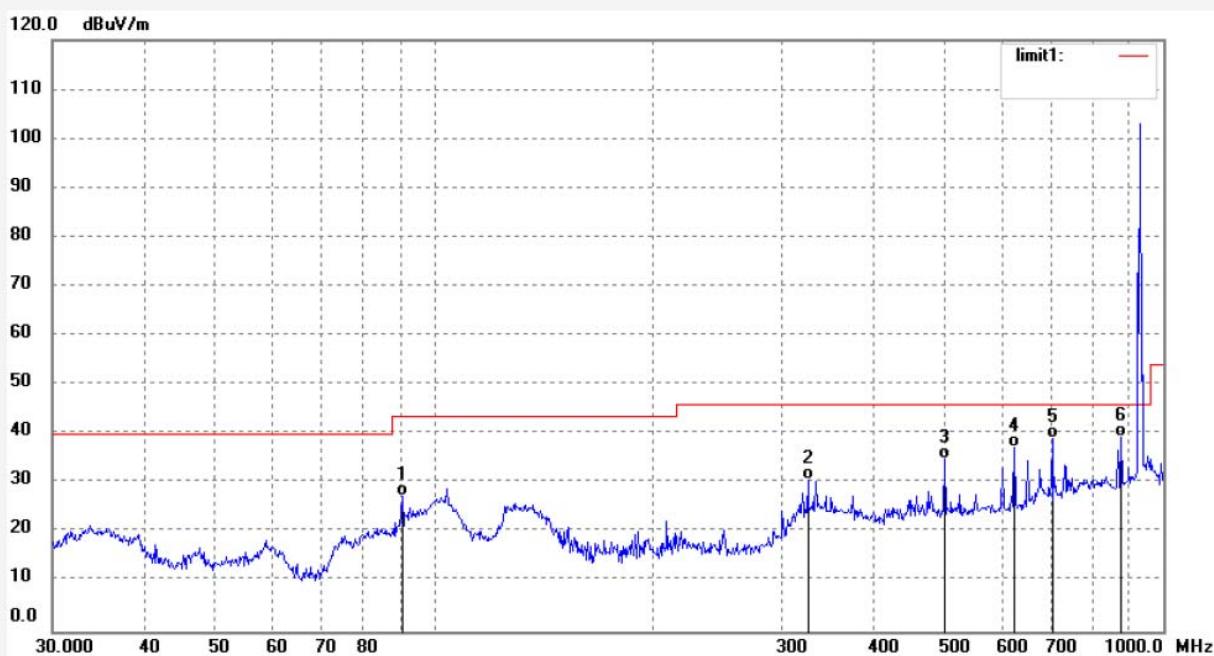
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR2015 #1249
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: SmartESL Accesspoint
Mode: TX 927.5MHz
Model: 500300
Manufacturer: findbox GmbH

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2016-5-31
Time: 18:47:30
Engineer Signature: Star
Distance: 3m

Note: Report NO.:ATE20161077



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 90.5374 | 42.54 | -15.04 | 27.50 | 43.50 | -16.00 | QP | | | |
| 2 | 325.5957 | 39.17 | -8.51 | 30.66 | 46.00 | -15.34 | QP | | | |
| 3 | 501.1788 | 39.71 | -4.83 | 34.88 | 46.00 | -11.12 | QP | | | |
| 4 | 625.0778 | 39.90 | -2.61 | 37.29 | 46.00 | -8.71 | QP | | | |
| 5 | 704.2259 | 40.77 | -1.66 | 39.11 | 46.00 | -6.89 | QP | | | |
| 6 | 875.2468 | 38.27 | 1.11 | 39.38 | 46.00 | -6.62 | QP | | | |

Above 1GHz



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Science & Industry Park,Nanshan Shenzhen,P.R.ChinaSite: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR2015 #1255

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016-5-31

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 19:01:50

EUT: SmartESL Accesspoint

Engineer Signature:

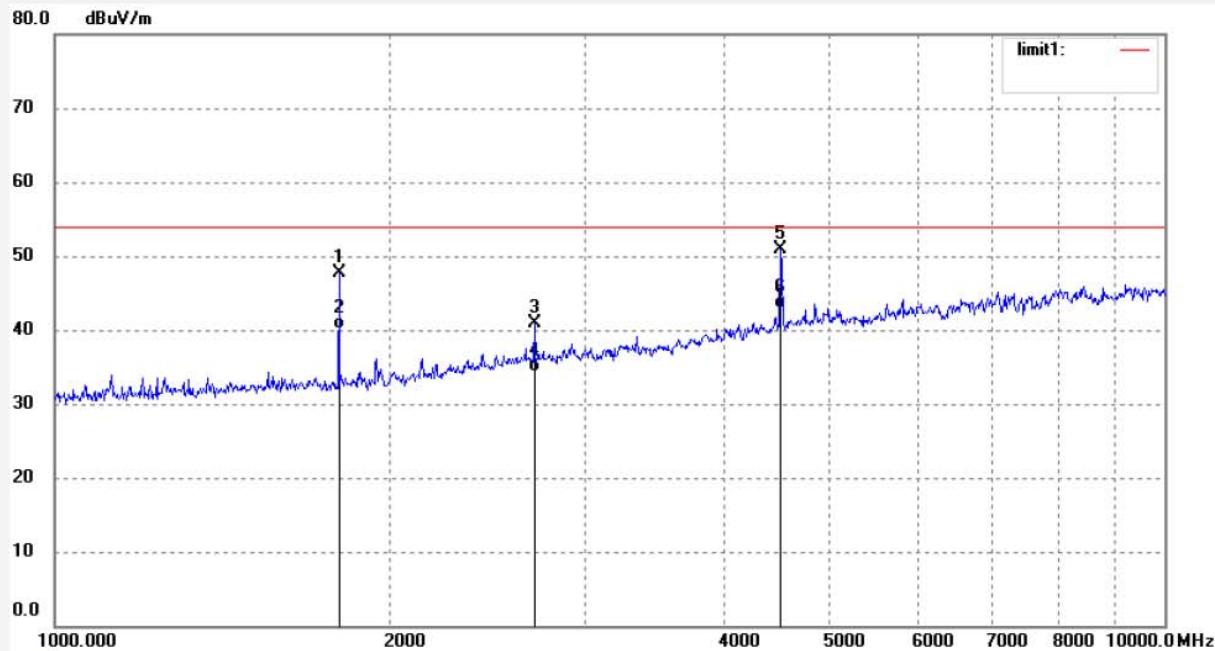
Mode: TX 902.5MHz

Distance: 3m

Model: 500300

Manufacturer: findbox GmbH

Note: Report NO.:ATE20161077



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 1805.000 | 57.68 | -10.01 | 47.67 | 74.00 | -26.33 | peak | | | |
| 2 | 1805.000 | 50.14 | -10.01 | 40.13 | 54.00 | -13.87 | AVG | | | |
| 3 | 2707.500 | 47.29 | -6.32 | 40.97 | 74.00 | -33.03 | peak | | | |
| 4 | 2707.500 | 40.67 | -6.32 | 34.35 | 54.00 | -19.65 | AVG | | | |
| 5 | 4512.500 | 52.28 | -1.29 | 50.99 | 74.00 | -23.01 | peak | | | |
| 6 | 4512.500 | 44.17 | -1.29 | 42.88 | 54.00 | -11.12 | AVG | | | |

Note: Average measurement with peak detection at No.2

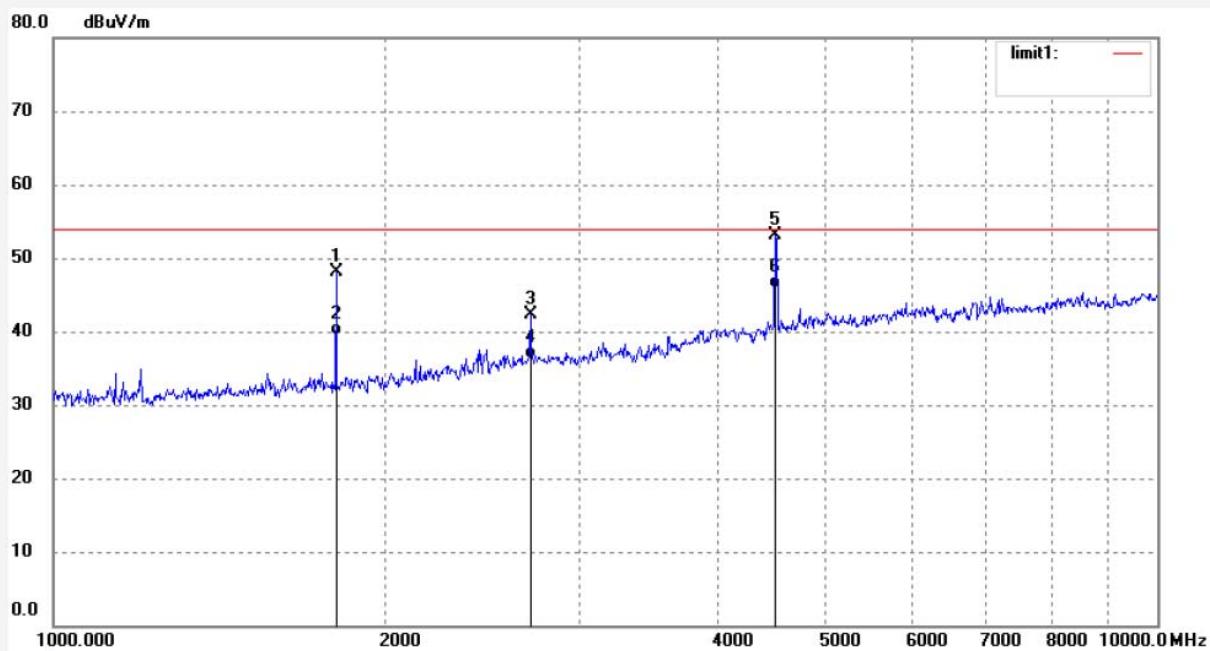


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

| | | | |
|-------------------|-------------------------|---------------------|--------------|
| Job No.: | STAR2015 #1254 | Polarization: | Vertical |
| Standard: | FCC Class B 3M Radiated | Power Source: | AC 120V/60Hz |
| Test item: | Radiation Test | Date: | 2016-5-31 |
| Temp.(C)/Hum.(%) | 23 C / 48 % | Time: | 19:00:30 |
| EUT: | SmartESL Accesspoint | Engineer Signature: | |
| Mode: | TX 902.5MHz | Distance: | 3m |
| Model: | 500300 | | |
| Manufacturer: | findbox GmbH | | |
| Note: | Report NO.:ATE20161077 | | |



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 1805.000 | 58.20 | -10.01 | 48.19 | 74.00 | -25.81 | peak | | | |
| 2 | 1805.000 | 49.61 | -10.01 | 39.60 | 54.00 | -14.40 | AVG | | | |
| 3 | 2707.500 | 48.57 | -6.32 | 42.25 | 74.00 | -31.75 | peak | | | |
| 4 | 2707.500 | 42.70 | -6.32 | 36.38 | 54.00 | -17.62 | AVG | | | |
| 5 | 4512.500 | 54.45 | -1.29 | 53.16 | 74.00 | -20.84 | peak | | | |
| 6 | 4512.500 | 47.15 | -1.29 | 45.86 | 54.00 | -8.14 | AVG | | | |

Note: Average measurement with peak detection at No.2

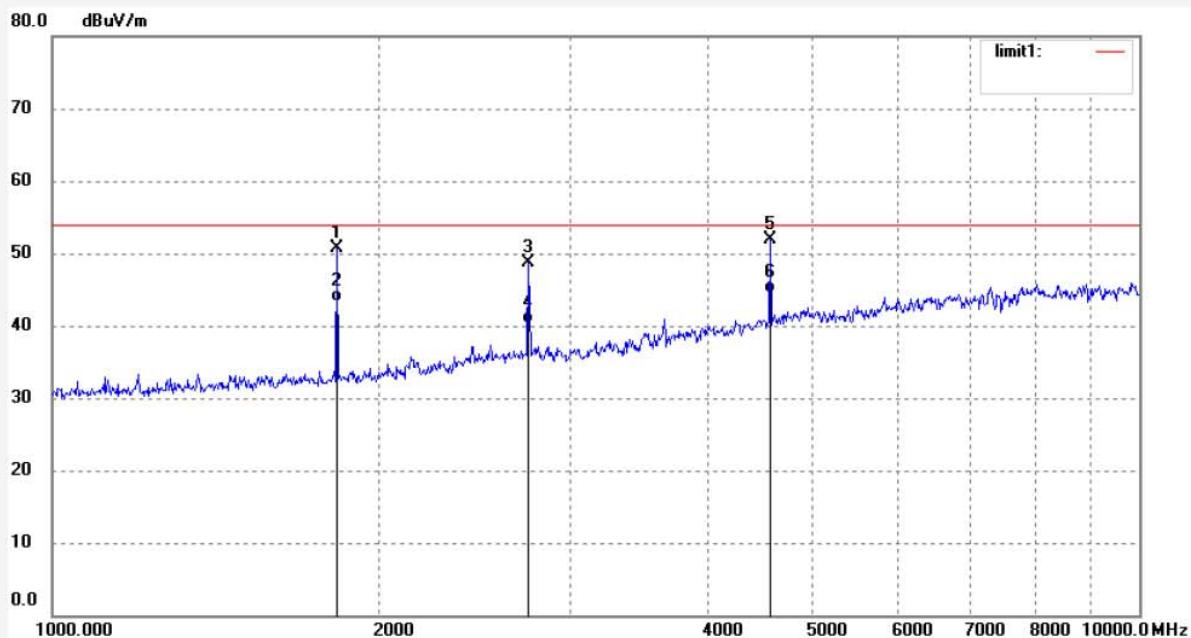


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

| | |
|-----------------------------------|----------------------------|
| Job No.: STAR2015 #1253 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 2016-5-31 |
| Temp.(C)/Hum.(%) 23 C / 48 % | Time: 18:57:22 |
| EUT: SmartESL Accesspoint | Engineer Signature: |
| Mode: TX 914.75MHz | Distance: 3m |
| Model: 500300 | |
| Manufacturer: findbox GmbH | |
| Note: Report NO.:ATE20161077 | |



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 1829.500 | 60.50 | -9.75 | 50.75 | 74.00 | -23.25 | peak | | | |
| 2 | 1829.500 | 52.99 | -9.75 | 43.24 | 54.00 | -10.76 | AVG | | | |
| 3 | 2744.250 | 54.84 | -6.14 | 48.70 | 74.00 | -25.30 | peak | | | |
| 4 | 2744.250 | 46.44 | -6.14 | 40.30 | 54.00 | -13.70 | AVG | | | |
| 5 | 4573.750 | 53.10 | -1.19 | 51.91 | 74.00 | -22.09 | peak | | | |
| 6 | 4573.750 | 45.61 | -1.19 | 44.42 | 54.00 | -9.58 | AVG | | | |

Note: Average measurement with peak detection at No.2



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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR2015 #1252

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016-5-31

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 18:56:22

EUT: SmartESL Accesspoint

Engineer Signature:

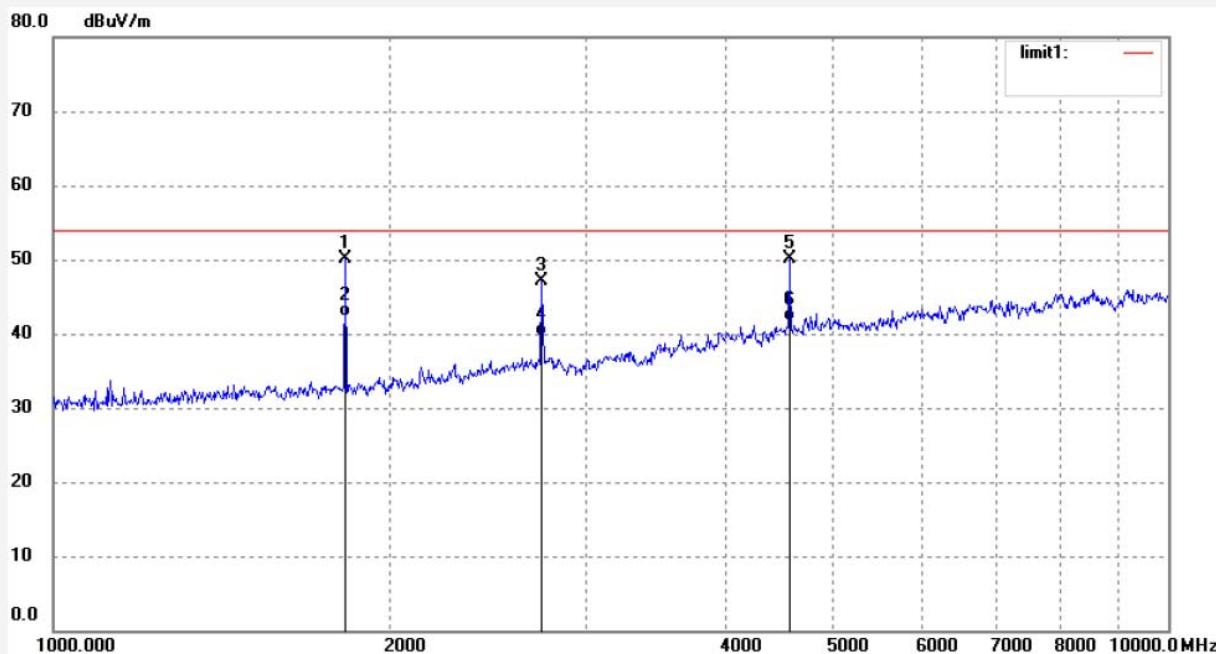
Mode: TX 914.75MHz

Distance: 3m

Model: 500300

Manufacturer: findbox GmbH

Note: Report NO.:ATE20161077



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 1829.500 | 59.84 | -9.75 | 50.09 | 74.00 | -23.91 | peak | | | |
| 2 | 1829.500 | 52.00 | -9.75 | 42.25 | 54.00 | -11.75 | AVG | | | |
| 3 | 2744.250 | 53.34 | -6.14 | 47.20 | 74.00 | -26.80 | peak | | | |
| 4 | 2744.250 | 45.77 | -6.14 | 39.63 | 54.00 | -14.37 | AVG | | | |
| 5 | 4573.750 | 51.26 | -1.19 | 50.07 | 74.00 | -23.93 | peak | | | |
| 6 | 4573.750 | 42.97 | -1.19 | 41.78 | 54.00 | -12.22 | AVG | | | |

Note: Average measurement with peak detection at No.2



ACCURATE TECHNOLOGY CO., LTD.

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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR2015 #1251

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016-5-31

Temp. (C)/Hum.(%) 23 C / 48 %

Time: 18:54:30

EUT: SmartESL Accesspoint

Engineer Signature:

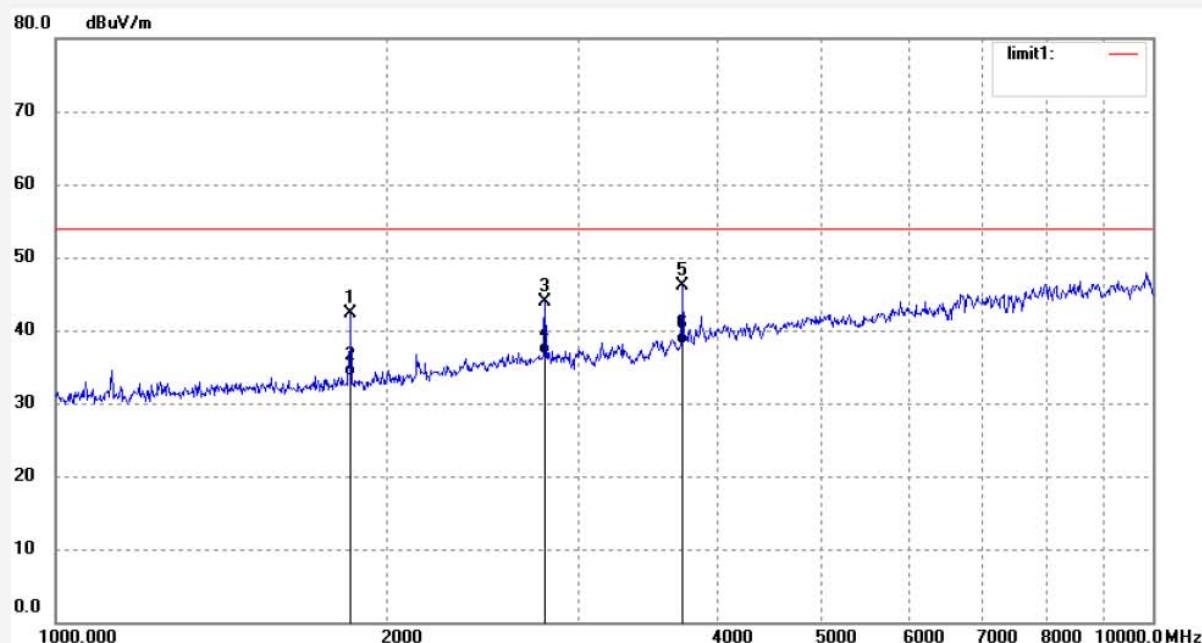
Mode: TX 927.5MHz

Distance: 3m

Model: 500300

Manufacturer: findbox GmbH

Note: Report NO.:ATE20161077



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 1855.000 | 51.95 | -9.56 | 42.39 | 74.00 | -31.61 | peak | | | |
| 2 | 1855.000 | 43.18 | -9.56 | 33.62 | 54.00 | -20.38 | AVG | | | |
| 3 | 2782.500 | 49.87 | -6.06 | 43.81 | 74.00 | -30.19 | peak | | | |
| 4 | 2782.000 | 42.72 | -6.06 | 36.66 | 54.00 | -17.34 | AVG | | | |
| 5 | 3710.000 | 48.39 | -2.35 | 46.04 | 74.00 | -27.96 | peak | | | |
| 6 | 3710.000 | 40.46 | -2.35 | 38.11 | 54.00 | -15.89 | AVG | | | |

Note: Average measurement with peak detection at No.2



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR2015 #1250

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2016-5-31

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 18:53:36

EUT: SmartESL Accesspoint

Engineer Signature:

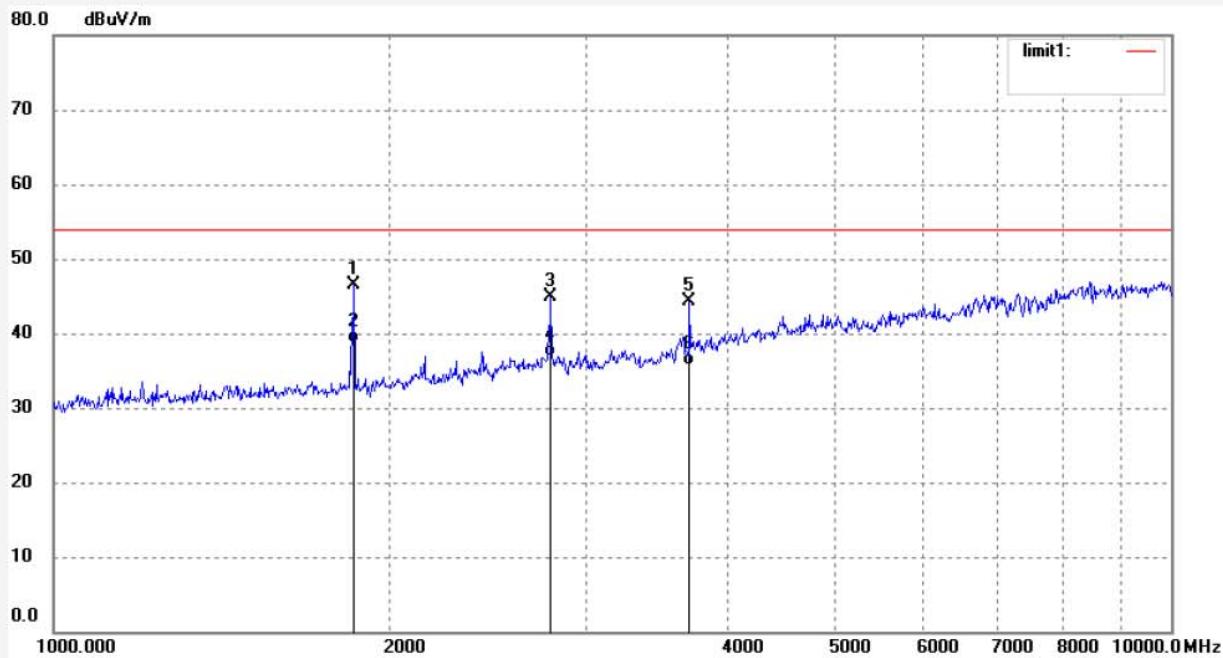
Mode: TX 927.5MHz

Distance: 3m

Model: 500300

Manufacturer: findbox GmbH

Note: Report NO.:ATE20161077

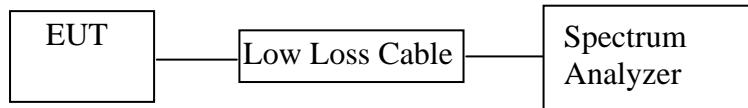


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 1855.000 | 56.15 | -9.56 | 46.59 | 74.00 | -27.41 | peak | | | |
| 2 | 1855.000 | 48.22 | -9.56 | 38.66 | 54.00 | -15.34 | AVG | | | |
| 3 | 2782.500 | 50.94 | -6.07 | 44.87 | 74.00 | -29.13 | peak | | | |
| 4 | 2782.500 | 42.90 | -6.07 | 36.83 | 54.00 | -17.17 | AVG | | | |
| 5 | 3710.000 | 46.78 | -2.39 | 44.39 | 74.00 | -29.61 | peak | | | |
| 6 | 3710.000 | 38.00 | -2.39 | 35.61 | 54.00 | -18.39 | AVG | | | |

Note: Average measurement with peak detection at No.2

12.BAND EDGE COMPLIANCE TEST

12.1.Block Diagram of Test Setup



(EUT: SmartESL Accesspoint)

12.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

12.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

12.4.Operating Condition of EUT

12.4.1.Setup the EUT and simulator as shown as Section 11.1.

12.4.2.Turn on the power of all equipment.

12.4.3.Let the EUT work in TX (Hopping off, Hopping on) modes measure it. The transmit frequency are 902.5-927.5MHz. We select 902.5MHz, 927.5MHz TX frequency to transmit.

12.5. Test Procedure

12.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

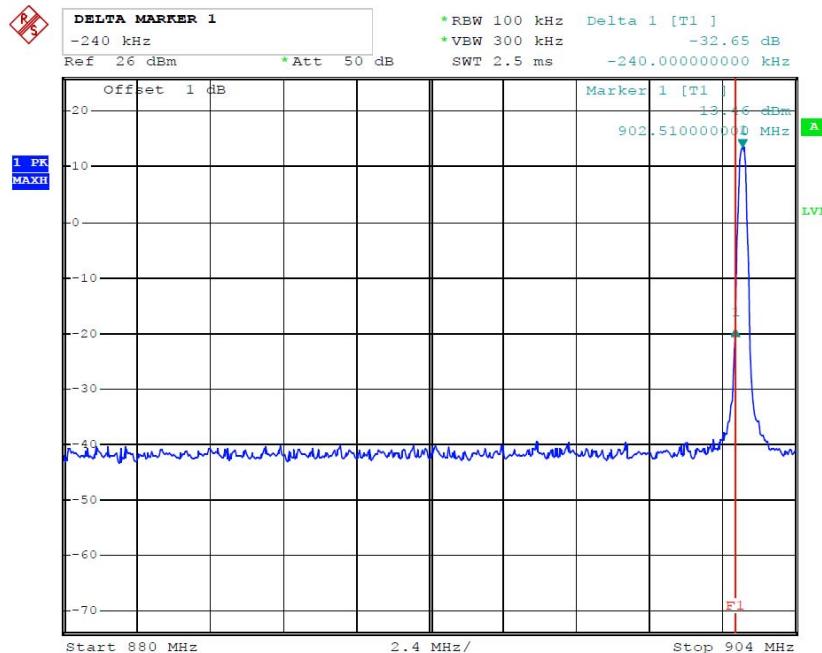
12.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz with convenient frequency span including 100 kHz bandwidth from band edge.

12.5.3. The band edges was measured and recorded.

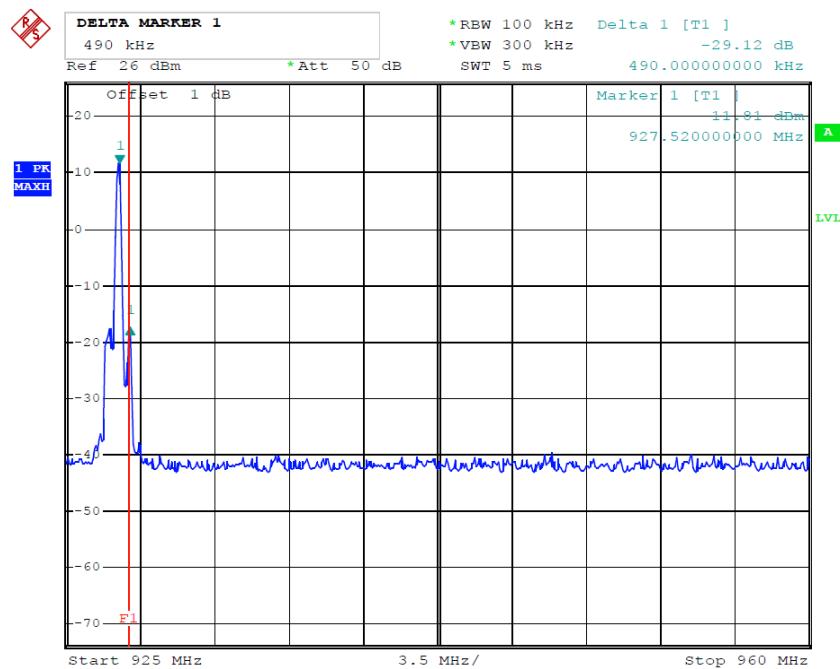
12.6. Test Result

| Frequency (MHz) | Result of Band Edge (dBc) | Limit of Band Edge (dBc) |
|-----------------|---------------------------|--------------------------|
| FSK | | |
| 902.5 | -32.65 | > -20dBc |
| 927.5 | -29.12 | > -20dBc |

FSK



Date: 1.JUN.2016 21:55:30



Date: 1.JUN.2016 22:04:34

13. ANTENNA REQUIREMENT

13.1. The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

13.2. Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 2dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.

