

FCC TEST REPORT

according to

FCC Part 15, Subpart C (15.249) / ANSI C63.4: 2009

Applicant : Zentan Technology Co., Ltd.

Address NO.92, Hsing-Sheng Road, Chia-Li District

72254 Tainan City, Taiwan R.O.C.

Equipment : ANT+ Combo sensor

Model No. : 1) BDS100

O. 2) ZASC1A, ZASC2A

FCC ID : QSWASCCS

Trade Name: 1) bryton

2) CARDIOSPORT

The test result refers exclusively to the test presented test model / sample.,

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Cerpass Technology Corp.

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Issued Date : Apr. 063, 2012

Report No.: TEFI1203097

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History of this test report

■ ORIGINAL.

 \square Additional attachment as following record:

| Attachment No. | Issue Date | Description |
|----------------|---------------|-------------|
| TEFI1203097 | Apr. 06, 2012 | Original. |
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CERTIFICATE OF COMPLIANCE

according to

FCC Part 15, Subpart C (15.249) / ANSI C63.4: 2009

Applicant : Zentan Technology Co., Ltd.

Address NO.92, Hsing-Sheng Road, Chia-Li District

72254 Tainan City, Taiwan R.O.C.

Equipment : ANT+ Combo sensor

Model No. 3) BDS100

4) ZASC1A, ZASC2A

FCC ID : QSWASCCS

I HEREBY CERTIFY THAT:

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4.** The equipment was *passed* the test performed according to **FCC Part 15, Subpart C (15.249) / ANSI C63.4: 2009.**

The test was carried out on Mar. 29, 2012 at Cerpass Technology Corp.

Signature

Hill Chen

EMC/RF B.U. Assistant Manager

Cerpass Technology Corp.

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1. Report of Measurements and Examinations

1.1. List of Measurements and Examinations

| FCC Rule | Test Type | Result | Remark |
|------------------|--------------------|--------|--|
| 15.207 | Conducted Emission | Pass | 6Vdc from batteries |
| 15.209 15.249 | Radiated Emission | Pass | Minimum Passing margin is -7.23dB at832.00 MHz |

Note: the information of measurement uncertainty is available upon the customer's request.

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2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

- Storage Temperature: -40~85°C
- Average Active Current: typical 60uA
- Peak Active Current: 12mA
- Stand-by Current: less than 1.5uA
- LED output current: Typical is 2mA by each LED
- Minimum negatve pulse width in EVENT_IN 20ns
- Minimum time between pulses on EVENT IN 20ms(Speed mode); 200ms(Cadence mode)
- Battery: CR2032
- RF operating Frequency: 2457MHz
- Maximum Output Power: 0~4dBm
- RF Duty Cycle: 0.0008 (ANT + Sport Protocol)

2.2. Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included EUT for RF test.
- c. The EUT was executed to keep transmitting and receiving data via Wireless.
- d. The following test mode were performed for conduction and radiation test:

CH1: 2457MHz

• TX Mode (Transmitting)

2.3. Description of Test System

No supporting system during the test.

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3. General Information of Test

| Test Site : | Cerpass Technology Corp. 2F-11, No. 3, Yuan Qu St. (Nankang Software Park), Taipei, Taiwan 115, R.O.C. |
|--------------------------------|---|
| Test Site Location (OATS1-SD): | No. 68-1, Shibachong Si, Shihding Township, Taipei County, Taiwan, R.O.C. |
| FCC Registration Number : | TW1061, TW1056, 390316, 488071 |
| IC Registration Number : | 4934B-1, 4934D-1 |
| VCCI Registration Number : | T-543 for Telecommunication Test C-3328 for Conducted emission test R-3428 for Radiated emission test G-97 for Radiated emission test above 1GHz. |
| Frequency Range Investigated: | Conducted Emission Test: from 150kHz to 30 MHz Radiated Emission Test: from 30 MHz to 25000 MHz |
| Modulation Type: | GFSK |
| Test Distance: | The test distance of radiated emission above 1GHz from antenna to EUT is 3 M. |





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4. Test of Conducted Emission

4.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

| Frequency (MHz) | Quasi Peak (dB μ V) | Average (dB μ V) |
|--------------------|------------------------|---------------------|
| 0.15 - 0.5 | 66-56* | 56-46* |
| 0.5 - 5.0 | 56 | 46 |
| 5.0 - 30.0 | 60 | 50 |

^{*}Decreases with the logarithm of the frequency.

4.2. Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

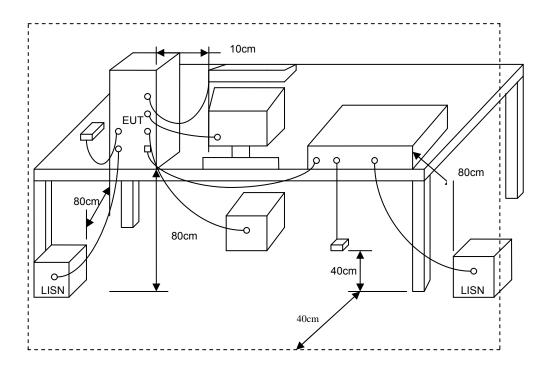
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4.3. Typical Test Setup



4.4. Test Result and Data

The test item is not applicable, because the EUT is powered from DC.

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5. Test of Radiated Emission

5.1. Test Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

| Frequency (MHz) | Distance | Limit (µV/ m) |
|-----------------|----------|---------------|
| 0.09 ~ 0.490 | 300m | 2400/F(kHz) |
| 0.490 ~ 1.705 | 30m | 24000/ F(kHz) |
| 1.705 ~ 30 | 30m | 30 |
| 30 ~ 88 | 3m | 100 |
| 88 ~ 216 | 3m | 150 |
| 216 ~ 960 | 3m | 200 |
| Above 960 | 3m | 500 |

Fundamental Frequency:

| Fundamental Frequency (MHz) | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
|-----------------------------|--|--|
| 2400-2483.5 | (millivoits/meter) 50 | 500 |
| 5725-5875 | 50 | 500 |
| 24000-24250 | 250 | 2500 |

5.2. Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
 The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal
- polarization and vertical polarization of the antenna are set to make the measurement.

 e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- Cone of radiation" has been considered to be 3dB beamwidth of the measurement antenna.

NOTE:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for
- Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.

 The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for
- Peak detection at frequency above 1GHz.

 The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

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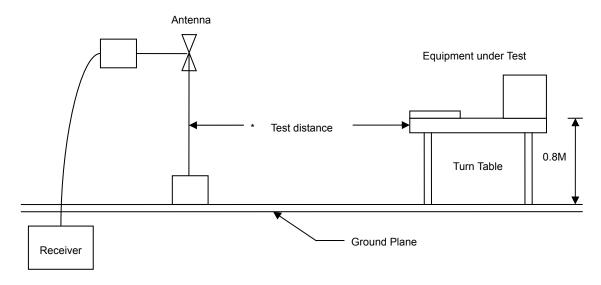
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5.3. Typical Test Setup Layout of Radiated Emission



5.4. Measurement equipment

| Instrument/Ancillary | Manufacturer | Model No. | Serial No. | Calibration Date | Valid Date |
|----------------------|--------------|-----------|------------|------------------|------------|
| Amplifier | Agilent | 8447D | 2944A10531 | 2012/01/13 | 2013/01/12 |
| Bilog Antenna | Schaffner | CBL6112D | 22242 | 2012/01/12 | 2013/01/11 |
| EMI Receiver | R&S | ESCI | 101200 | 2011/07/26 | 2012/07/25 |
| Spectrum Analyzer | R&S | FSP40 | 100047 | 2011/05/05 | 2012/05/04 |
| Horn Antenna | EMCO | 3115 | 31589 | 2011/05/02 | 2012/05/01 |
| Preamplifier | Agilent | 8449B | 3008A01954 | 2012/02/29 | 2013/02/28 |

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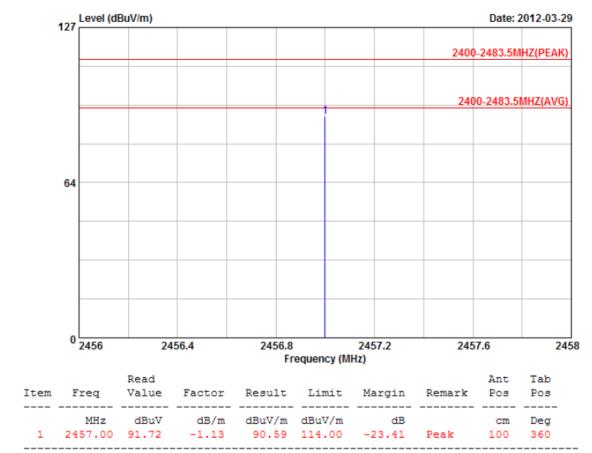
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5.5. Test Result and Data

5.5.1. Test Result of Fundamental Emission

| Power | : | DC 3V | Pol/Phase | : | VERTICAL |
|-------------------|---|----------|----------------------|---|----------|
| Test Mode | : | Transmit | Temperature | : | 23 °C |
| Operation Channel | : | 1 | Humidity | : | 64 % |
| Modulation Type | : | GFSK | Atmospheric Pressure | : | 1021 hPa |



Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

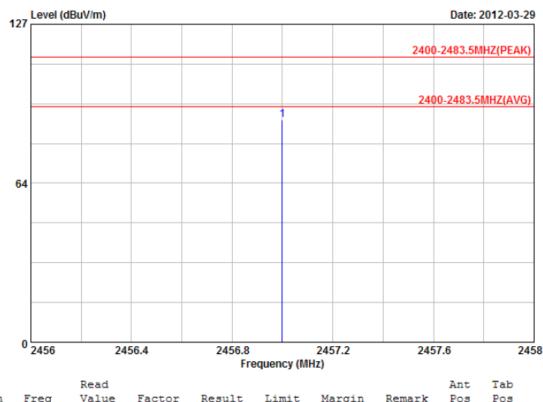
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| Power | : | DC 3V | Pol/Phase : | : | HORIZONTAL |
|-------------------|---|----------|------------------------|---|------------|
| Test Mode | : | Transmit | Temperature : | : | 23 °C |
| Operation Channel | : | 1 | Humidity : | : | 64 % |
| Modulation Type | : | GFSK | Atmospheric Pressure : | : | 1021 hPa |



Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

Test engineer: Ben

Cerpass Technology Corp.

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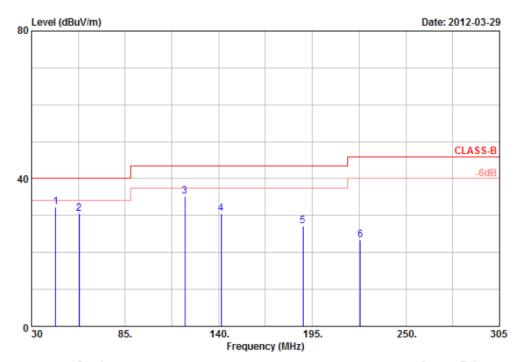
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5.5.2. Test Result of Unwanted Spurious emission

| Power | | DC 3V | Pol/Phase : | : | VERTICAL |
|-------------------|---|----------|----------------------|---|----------|
| Test Mode | | Transmit | Temperature : | | 23 °C |
| Operation Channel | : | 1 | Humidity : | | 64 % |
| Modulation Type | : | GFSK | Atmospheric Pressure | : | 1020 hPa |



| _ | Read | _ | | | | | Ant | Tab |
|--------|--|--|---|---|---|--|---|--|
| rreq | varue | ractor | Kesult | Limit | margin | kemark | POS | Pos |
| MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg |
| 44.30 | 29.25 | 3.12 | 32.37 | 40.00 | -7.63 | Peak | 100 | 360 |
| 58.05 | 34.71 | -4.19 | 30.52 | 40.00 | -9.48 | Peak | 100 | 360 |
| 120.20 | 27.32 | 7.80 | 35.12 | 43.50 | -8.38 | Peak | 100 | 360 |
| 141.38 | 28.72 | 1.87 | 30.59 | 43.50 | -12.91 | Peak | 100 | 360 |
| 189.50 | 26.89 | 0.27 | 27.16 | 43.50 | -16.34 | Peak | 100 | 360 |
| 223 05 | 24 83 | -1.49 | 23.34 | 46.00 | -22.66 | Peak | 100 | 360 |
| | 44.30 58.05 120.20 141.38 189.50 | MHz dBuV 44.30 29.25 58.05 34.71 120.20 27.32 141.38 28.72 | MHz dBuV dB/m 44.30 29.25 3.12 58.05 34.71 -4.19 120.20 27.32 7.80 141.38 28.72 1.87 189.50 26.89 0.27 | MHz dBuV dB/m dBuV/m 44.30 29.25 3.12 32.37 58.05 34.71 -4.19 30.52 120.20 27.32 7.80 35.12 141.38 28.72 1.87 30.59 189.50 26.89 0.27 27.16 | MHz dBuV dB/m dBuV/m dBuV/m 44.30 29.25 3.12 32.37 40.00 58.05 34.71 -4.19 30.52 40.00 120.20 27.32 7.80 35.12 43.50 141.38 28.72 1.87 30.59 43.50 189.50 26.89 0.27 27.16 43.50 | Freq Value Factor Result Limit Margin MHz dBuV dB/m dBuV/m dBuV/m dBuV/m dB 44.30 29.25 3.12 32.37 40.00 -7.63 58.05 34.71 -4.19 30.52 40.00 -9.48 120.20 27.32 7.80 35.12 43.50 -8.38 141.38 28.72 1.87 30.59 43.50 -12.91 189.50 26.89 0.27 27.16 43.50 -16.34 | MHz dBuV dB/m dBuV/m dBuV/m dBuV/m dB dBuV/m dB 44.30 29.25 3.12 32.37 40.00 -7.63 Peak 58.05 34.71 -4.19 30.52 40.00 -9.48 Peak 120.20 27.32 7.80 35.12 43.50 -8.38 Peak 141.38 28.72 1.87 30.59 43.50 -12.91 Peak 189.50 26.89 0.27 27.16 43.50 -16.34 Peak | MHz dBuV dB/m dBuV/m dBuV/m dBuV/m dB cm 44.30 29.25 3.12 32.37 40.00 -7.63 Peak 100 58.05 34.71 -4.19 30.52 40.00 -9.48 Peak 100 120.20 27.32 7.80 35.12 43.50 -8.38 Peak 100 141.38 28.72 1.87 30.59 43.50 -12.91 Peak 100 189.50 26.89 0.27 27.16 43.50 -16.34 Peak 100 |

Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
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- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

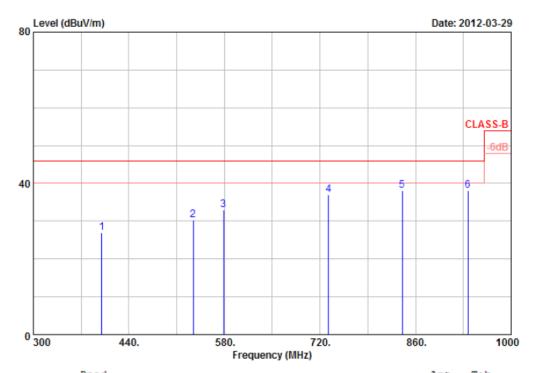
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| Power | : | DC 3V | Pol/Phase | : | VERTICAL |
|-------------------|---|----------|----------------------|---|----------|
| Test Mode | : | Transmit | Temperature | : | 23 °C |
| Operation Channel | : | 1 | Humidity | : | 64 % |
| Modulation Type | : | GFSK | Atmospheric Pressure | : | 1020 hPa |



| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark | Pos | Pos |
|------|--------|---------------|--------|--------|--------|--------|--------|-----|-----|
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg |
| 1 | 400.10 | 26.31 | 0.55 | 26.86 | 46.00 | -19.14 | Peak | 100 | 0 |
| 2 | 534.50 | 24.54 | 5.85 | 30.39 | 46.00 | -15.61 | Peak | 100 | 0 |
| 3 | 578.60 | 24.54 | 8.46 | 33.00 | 46.00 | -13.00 | Peak | 100 | 0 |
| 4 | 732.60 | 25.91 | 11.10 | 37.01 | 46.00 | -8.99 | Peak | 100 | 0 |
| 5 | 840.40 | 22.63 | 15.58 | 38.21 | 46.00 | -7.79 | Peak | 100 | 0 |
| 6 | 937.00 | 23.12 | 14.95 | 38.07 | 46.00 | -7.93 | Peak | 100 | 0 |
| | | | | | | | | | |

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- 2. Factor = Antenna Factor + Cable Loss Amplifier
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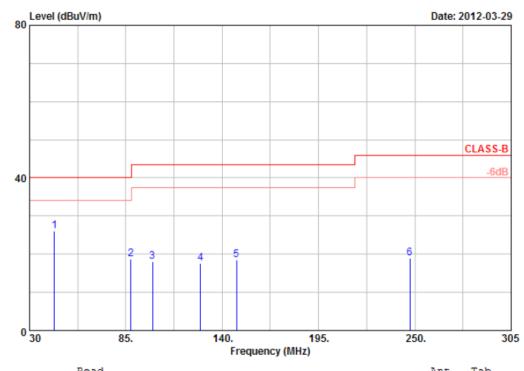
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| Power | : | DC 3V | Pol/Phase : | HORIZONTAL |
|-------------------|---|----------|------------------------|------------|
| Test Mode | : | Transmit | Temperature : | 23 °C |
| Operation Channel | : | 1 | Humidity : | 64 % |
| Modulation Type | : | GFSK | Atmospheric Pressure : | 1020 hPa |

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| Item | Freq | Value | Factor | Result | Limit | Margin | Remark | Pos | Pos | |
|------|--------|-------|--------|--------|--------|--------|--------|-----|-----|--|
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg | |
| 1 | 44.30 | 31.29 | -5.29 | 26.00 | 40.00 | -14.00 | Peak | 100 | 360 | |
| 2 | 87.75 | 30.57 | -11.77 | 18.80 | 40.00 | -21.20 | Peak | 100 | 360 | |
| 3 | 100.13 | 26.13 | -8.02 | 18.11 | 43.50 | -25.39 | Peak | 100 | 360 | |
| 4 | 127.63 | 26.57 | -9.07 | 17.50 | 43.50 | -26.00 | Peak | 100 | 360 | |
| 5 | 148.25 | 26.40 | -7.93 | 18.47 | 43.50 | -25.03 | Peak | 100 | 360 | |
| 6 | 247.25 | 24.46 | -5.54 | 18.92 | 46.00 | -27.08 | Peak | 100 | 360 | |
| | | | | | | | | | | |

Notes:

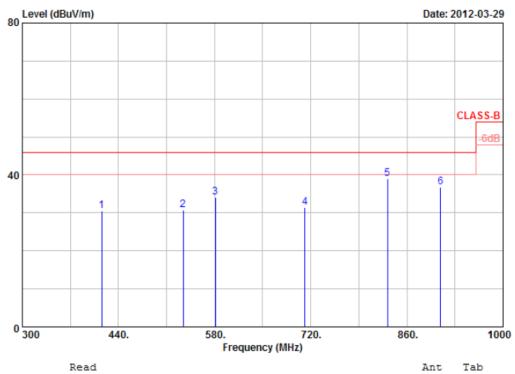
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| Power | : | DC 3V | Pol/Phase : | | HORIZONTAL |
|-------------------|---|----------|------------------------|-----|------------|
| Test Mode | : | Transmit | Temperature : | | 26 °C |
| Operation Channel | : | 1 | Humidity : | | 57 % |
| Modulation Type | : | GFSK | Atmospheric Pressure : | :] | 1021 hPa |



| Item | Freq | Value | Factor | Result | Limit | Margin | Remark | Pos | Pos |
|------|--------|-------|--------|--------|--------|--------|--------|-----|-----|
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg |
| 1 | 415.50 | 31.17 | -0.54 | 30.63 | 46.00 | -15.37 | Peak | 100 | 0 |
| 2 | 534.50 | 25.36 | 5.36 | 30.72 | 46.00 | -15.28 | Peak | 100 | 0 |
| 3 | 581.40 | 25.23 | 8.91 | 34.14 | 46.00 | -11.86 | Peak | 100 | 0 |
| 4 | 711.60 | 24.55 | 6.94 | 31.49 | 46.00 | -14.51 | Peak | 100 | 0 |
| 5 | 832.00 | 25.33 | 13.57 | 38.90 | 46.00 | -7.10 | Peak | 100 | 0 |
| 6 | 909.00 | 25.07 | 11.77 | 36.84 | 46.00 | -9.16 | Peak | 100 | 0 |
| | | | | | | | | | |

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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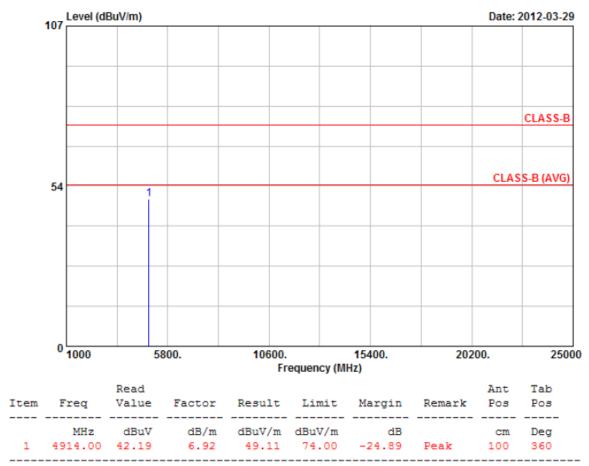
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| Power | : | DC 3V | Pol/Phase | : | VERTICAL |
|-------------------|---|----------|----------------------|---|----------|
| Test Mode | : | Transmit | Temperature | | 26 °C |
| Operation Channel | : | 1 | Humidity | | 57 % |
| Modulation Type | : | GFSK | Atmospheric Pressure | : | 1021 hPa |



Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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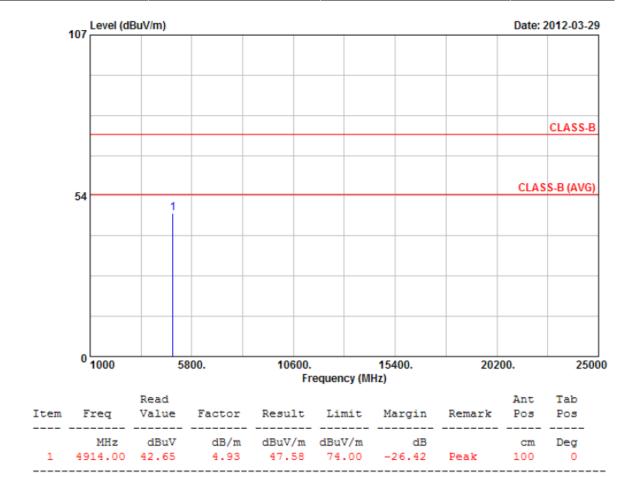
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| Power | : | DC 3V | Pol/Phase | : | HORIZONTAL |
|-------------------|---|----------|----------------------|---|------------|
| Test Mode | | Transmit | Temperature | : | 30 °C |
| Operation Channel | | 1 | Humidity | : | 51 % |
| Modulation Type | : | GFSK | Atmospheric Pressure | : | 1021 hPa |

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Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz
- The other emissions is too low to be measured.
- 7. The data is worse case.

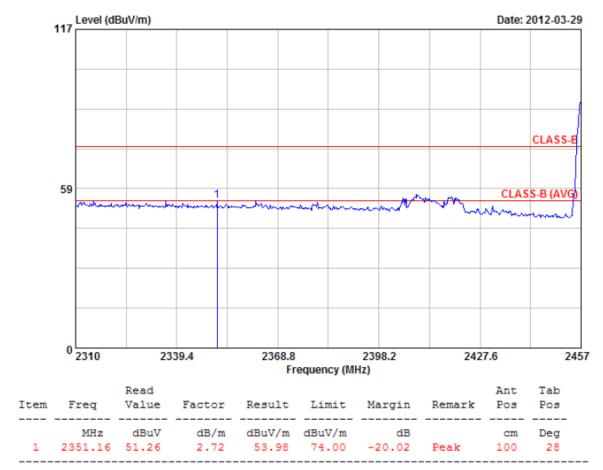
Test engineer:

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5.5.3. Test Result of Band Edges Measurement

| Power | : | DC 3V | Pol/Phase | | VERTICAL |
|-------------------|---|----------|----------------------|---|----------|
| Test Mode | : | Transmit | Temperature | | 23 °C |
| Operation Channel | : | 1 | Humidity | | 64 % |
| Modulation Type | : | GFSK | Atmospheric Pressure | : | 1020 hPa |



Notes:

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

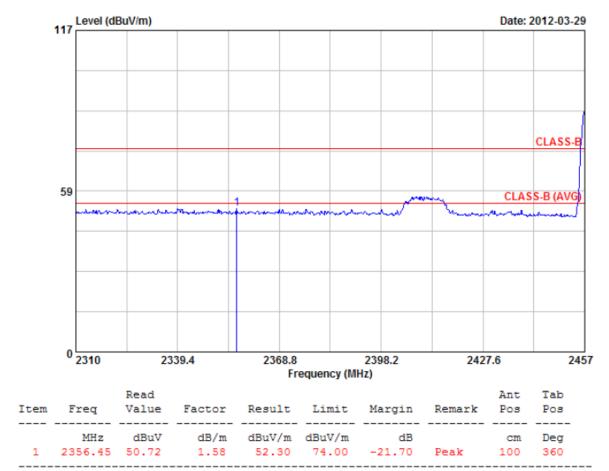
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| Power | : | DC 3V | Pol/Phase : | VERTICAL |
|-------------------|---|----------|------------------------|----------|
| Test Mode | : | Transmit | Temperature : | 23 °C |
| Operation Channel | : | 1 | Humidity : | 64 % |
| Modulation Type | : | GFSK | Atmospheric Pressure : | 1020 hPa |



- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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| Power | : | DC 3V | Pol/Phase | | HORIZONTAL |
|-------------------|---|----------|----------------------|---|------------|
| Test Mode | : | Transmit | Temperature | : | 23 °C |
| Operation Channel | : | 1 | Humidity | | 64 % |
| Modulation Type | : | GFSK | Atmospheric Pressure | : | 1020 hPa |



| rred | value | ractor | Kesuit | LIMIL | Margin | Kemark | FOS | FOS | |
|---------|-------|----------|---------------|----------------------|-----------------------------|--------------------------------|--------------------------------|-----------------------------------|--|
| | | | | | | | | | |
| MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg | |
| 2490.37 | 51.10 | -2.91 | 48.19 | 74.00 | -25.81 | Peak | 100 | 0 | |
| | MHz | MHz dBuV | MHz dBuV dB/m | MHz dBuV dB/m dBuV/m | MHz dBuV dB/m dBuV/m dBuV/m | MHz dBuV dB/m dBuV/m dBuV/m dB | MHz dBuV dB/m dBuV/m dBuV/m dB | MHz dBuV dB/m dBuV/m dBuV/m dB cm | |

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

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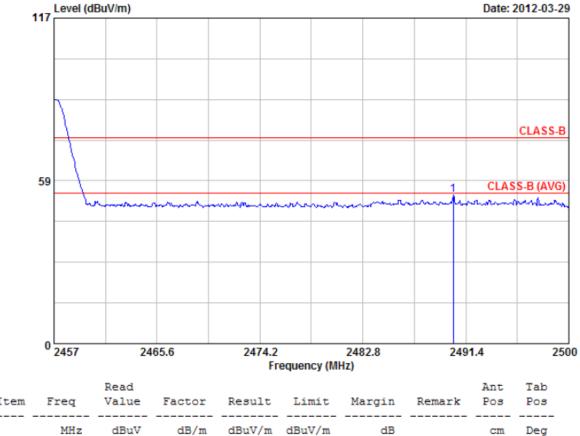
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| Power | : | DC 3V | Pol/Phase | | HORIZONTAL |
|-------------------|---|----------|----------------------|---|------------|
| Test Mode | : | Transmit | Temperature | | 23 °C |
| Operation Channel | : | 1 | Humidity | : | 64 % |
| Modulation Type | : | GFSK | Atmospheric Pressure | | 1020 hPa |



| Item | Freq | Read Value | Factor | Result | Limit | Margin | Remark | | Pos |
|------|---------|---------------|--------|--------|--------|--------|--------|-----|-----|
| | | | | | | | | | |
| | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | | cm | Deg |
| 1 | 2490.37 | 53.59 | 0.00 | 53.59 | 74.00 | -20.41 | Peak | 100 | 360 |

- 1. Result = Read Value + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above
- 6. The other emissions is too low to be measured.
- 7. The data is worse case.

Test engineer:_

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