

FCC 47 CFR PART 22H and 24E

RF Test Report

Product Type : LE910-NA V2
Applicant : Telit Communications S.p.A.
Address : Viale Stazione di Prosecco 5/B, 34010 Sgonico- Trieste- Italy
Trade Name : Telit
Model Number : LE910-NA V2
Test Specification : FCC 47 CFR PART 22H: Oct, 2014
FCC 47 CFR PART 24E: Oct, 2014
ANSI/TIA/EIA-603-C
Application Purpose : Original
Receive Date : Jun. 04, 2015
Test Period : Jun. 10 ~ 18, 2015
Issue Date : Aug. 03, 2015

Issue by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade City,
Taoyuan County 334, Taiwan R.O.C.
Tel : +886-3-2710188 / Fax : +886-3-2710190



Taiwan Accreditation Foundation accreditation number: 1330

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Revision History

| Rev. | Issue Date | Revisions | Revised By |
|------|---------------|-----------------------------|-------------|
| 00 | Jul. 28, 2015 | Initial Issue | |
| 01 | Aug. 03, 2015 | Revised report information. | Peggy Chang |
| | | | |
| | | | |

Verification of Compliance

Issued Date: 08/03/2015

Product Type : LE910-NA V2
Applicant : Telit Communications S.p.A.
Address : Viale Stazione di Prosecco 5/B, 34010 Sgonico- Trieste- Italy
Trade Name : Telit
Model Number : LE910-NA V2
EUT Rated Voltage : DC 3.4V / 3.8V / 4.2V
Test Voltage : DC 3.8V
Applicable Standard : FCC 47 CFR PART 22H: Oct, 2014
FCC 47 CFR PART 24E: Oct, 2014
ANSI/TIA/EIA-603-C
Application Purpose : Original
Test Result : Complied
Performing Lab. : A Test Lab Techno Corp.

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Taiwan Accreditation Foundation accreditation number: 1330
<http://www.atl-lab.com.tw/e-index.htm>

The above equipment was tested by A Test Lab Techno Corp. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2009 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 22H, Part 24E.

The test results of this report relate only to the tested sample identified in this report.

Approved By : Fly Lu Reviewed By : Eric Ou Yang
(Manager) (Fly Lu) (Testing Engineer) (Eric Ou Yang)

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1 General Information

1.1. EUT Description

| | | | | | |
|-----------------------------|---------------------------------------|---|--------------------|--------------------|------------|
| Applicant | | Telit Communications S.p.A. | | | |
| Applicant Address | | Viale Stazione di Prosecco 5/B, 34010 Sgonico- Trieste- Italy | | | |
| Manufacturer | | Telit Communications S.p.A. | | | |
| Manufacturer Address | | Viale Stazione di Prosecco 5/B, 34010 Sgonico- Trieste- Italy | | | |
| Product Type | | LE910-NA V2 | | | |
| Trade Name | | Telit | | | |
| Model Number | | LE910-NA V2 | | | |
| Hardware Version | | 00 | | | |
| Software Version | | 20.00.501 | | | |
| Radio Hardware Version | | 00 | | | |
| Radio Software Version | | 20.00.501 | | | |
| Mode | WCDMA (RMC12.2K)/ HSDPA/ HSUPA/ | Band | UL Frequency (MHz) | DL Frequency (MHz) | Modulation |
| | | II | 1852.4 ~ 1907.6 | 1932.4 ~ 1987.6 | QPSK |
| | | V | 826.4 ~ 846.6 | 871.4 ~ 891.6 | QPSK |
| Channel Control | | Auto | | | |
| Antenna Gain (dBi) | | WCDMA/ HSDPA/ HSUPA Band II : 2.14 dBi WCDMA/ HSDPA/ HSUPA Band V : 2.14 dBi | | | |
| Max. RF Output power (Avg.) | | WCDMA/ HSDPA/ HSUPA Band II : 23.66 dBm / 0.232 W WCDMA/ HSDPA/ HSUPA Band V : 23.59 dBm / 0.229 W | | | |
| Max. ERP/EIRP | | WCDMA Band II : 25.80 dBm / 0.38 W WCDMA Band V : 23.58 dBm / 0.23 W | | | |
| Emission Designator | | WCDMA Band II : 4M09F9W WCDMA Band V : 4M08F9W | | | |

1.2. Mode of Operation

ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

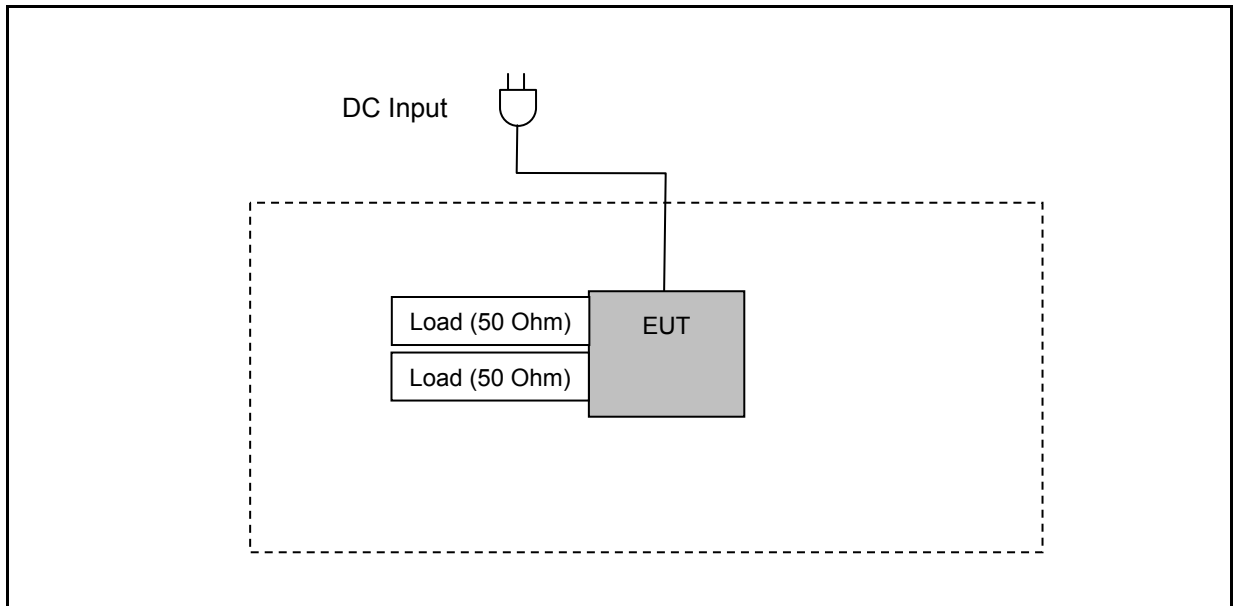
| Test Mode |
|---------------------------------|
| Mode 1: WCDMA Band II Link Mode |
| Mode 2: WCDMA Band V Link Mode |

Note: Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

1.3. EUT Exercise Software

| | |
|---|--|
| 1 | Setup the EUT and Base Station (CMU200) as shown on 1.4. |
| 2 | Turn on the power of all equipment. |

1.4. Configuration of Test System Details



1.5. Test Site Environment

| Items | Required (IEC 60068-1) | Actual |
|----------------------------|------------------------|--------|
| Temperature (°C) | 15-35 | 26 |
| Humidity (%RH) | 25-75 | 60 |
| Barometric pressure (mbar) | 860-1060 | 950 |

1.6. Summary of Test Result

| Description | FCC Rule | Limit | Result |
|---|-------------------------------------|-------------------------------------|--------|
| Conducted Output Power | §2.1046 | N/A | Pass |
| Effective Radiated Power | §22.913(a)(2) | < 7 Watts for FCC | Pass |
| Equivalent Isotropic Radiated Power | §24.232(c) | ≤ 11.5 Watts | Pass |
| Peak to average ratio | §24.232(d) | < 13 dB | Pass |
| Emission Bandwidth & Occupied Bandwidth | §2.1049 §22.917(a) §24.238(a) | N/A | Pass |
| Band Edge Measurement | §2.1051 §22.917(a) §24.238(a) | < $43+10\log_{10}(P[\text{Watts}])$ | Pass |
| Conducted Spurious Emission | §2.1051 §22.917(a) §24.238(a) | < $43+10\log_{10}(P[\text{Watts}])$ | Pass |
| Field Strength of Spurious Radiation | §2.1053 §22.917(a) §24.238(a) | < $43+10\log_{10}(P[\text{Watts}])$ | Pass |
| Frequency Stability for Temperature & Voltage | §2.1055 §22.355 §24.235 | < 2.5 ppm | Pass |

2 RF Output Power Test

2.1. Limit

N/A

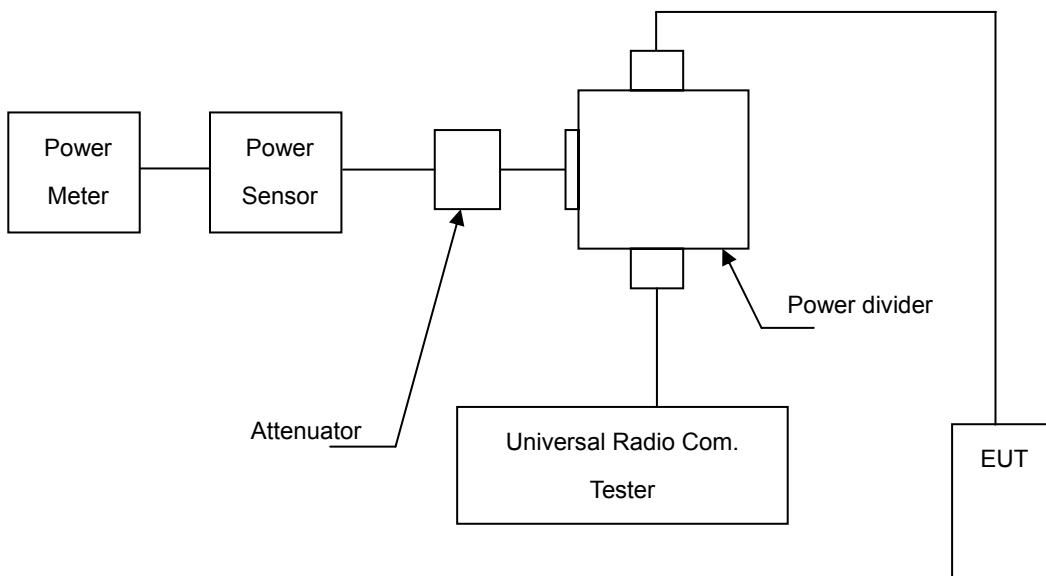
2.2. Test Instruments

| Equipment | Manufacturer | Model Number | Serial Number | Cal. Date | Remark |
|--------------------------------------|--------------|--------------|---------------|------------|--------|
| Universal Radio Communication Tester | R & S | CMU200 | 109369 | 10/21/2014 | (2) |
| Single Channel PK Power Sensor | Agilent | N1911A | MY45101619 | 12/15/2014 | (1) |
| Wideband Power Meter | Agilent | N1921A | MY45241957 | 12/15/2014 | (1) |
| Test Site | ATL | TE05 | TE05 | N.C.R. | ----- |

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

2.3. Test Setup



2.4. Test Procedure

The measurement is made according to as follows:

1. The transmitter output was connected to power meter and base station through Power Divider.
2. Set base station for EUT at GSM 850: PCL=5 and PCS 1900: PCL=0.
3. Set base station for EUT at WCDMA Band V and WCDMA Band II, power level was set to maximum.
4. Select lowest, middle, and highest channels for each band.

2.5. Uncertainty

The measurement uncertainty is defined as for RF output power measurement is 1.2 dB.

2.6. Test Result

| Model Number | LE910-NA V2 | | | | |
|---------------------|-----------------|----------|-----------------|---------------------|--------------|
| Test Item | RF Output Power | | | | |
| Date of Test | 06/18/2015 | | | Test Site | TE05 |
| Bands | Modulation Type | Sub-Test | Frequency (MHz) | Burst Average Power | |
| | | | | (dBm) | (W) |
| WCDMA Band II | QPSK | ----- | 1852.4 | 23.66 | 0.232 |
| | | | 1880.0 | 23.64 | 0.231 |
| | | | 1907.6 | 23.57 | 0.228 |
| HSDPA Band II | QPSK | 1 | 1852.4 | 22.61 | 0.182 |
| | | | 1880.0 | 22.57 | 0.181 |
| | | | 1907.6 | 22.49 | 0.177 |
| | | 2 | 1852.4 | 22.48 | 0.177 |
| | | | 1880.0 | 22.42 | 0.175 |
| | | | 1907.6 | 22.32 | 0.171 |
| | | 3 | 1852.4 | 22.08 | 0.161 |
| | | | 1880.0 | 22.01 | 0.159 |
| | | | 1907.6 | 21.91 | 0.155 |
| | | 4 | 1852.4 | 22.04 | 0.160 |
| | | | 1880.0 | 21.96 | 0.157 |
| | | | 1907.6 | 21.86 | 0.153 |
| HSUPA/HSPA+ Band II | QPSK | 1 | 1852.4 | 21.98 | 0.158 |
| | | | 1880.0 | 21.91 | 0.155 |
| | | | 1907.6 | 21.81 | 0.152 |
| | | 2 | 1852.4 | 19.95 | 0.099 |
| | | | 1880.0 | 19.87 | 0.097 |
| | | | 1907.6 | 19.76 | 0.095 |
| | | 3 | 1852.4 | 20.92 | 0.124 |
| | | | 1880.0 | 20.82 | 0.121 |
| | | | 1907.6 | 20.70 | 0.117 |
| | | 4 | 1852.4 | 19.92 | 0.098 |
| | | | 1880.0 | 19.83 | 0.096 |
| | | | 1907.6 | 19.72 | 0.094 |
| | | 5 | 1852.4 | 21.87 | 0.154 |
| | | | 1880.0 | 21.77 | 0.150 |
| | | | 1907.6 | 21.65 | 0.146 |

Note: The peak power testing result was used peak detector.

| Model Number | LE910-NA V2 | | | | |
|--------------------|-----------------|----------|-----------------|---------------------|--------------|
| Test Item | RF Output Power | | | | |
| Date of Test | 07/23/2013 | | | Test Site | TE05 |
| Bands | Modulation Type | Sub-Test | Frequency (MHz) | Burst Average Power | |
| | | | | (dBm) | (W) |
| WCDMA Band V | QPSK | ----- | 826.4 | 23.55 | 0.226 |
| | | | 836.6 | 23.59 | 0.229 |
| | | | 846.6 | 23.46 | 0.222 |
| HSDPA Band V | QPSK | 1 | 826.4 | 22.51 | 0.178 |
| | | | 836.6 | 22.56 | 0.180 |
| | | | 846.6 | 22.40 | 0.174 |
| | | 2 | 826.4 | 22.36 | 0.172 |
| | | | 836.6 | 22.41 | 0.174 |
| | | | 846.6 | 22.23 | 0.167 |
| | | 3 | 826.4 | 21.98 | 0.158 |
| | | | 836.6 | 22.05 | 0.160 |
| | | | 846.6 | 21.86 | 0.153 |
| | | 4 | 826.4 | 21.93 | 0.156 |
| | | | 836.6 | 21.99 | 0.158 |
| | | | 846.6 | 21.78 | 0.151 |
| HSUPA/HSPA+ Band V | QPSK | 1 | 826.4 | 21.84 | 0.153 |
| | | | 836.6 | 21.88 | 0.154 |
| | | | 846.6 | 21.71 | 0.148 |
| | | 2 | 826.4 | 19.80 | 0.095 |
| | | | 836.6 | 19.86 | 0.097 |
| | | | 846.6 | 19.65 | 0.092 |
| | | 3 | 826.4 | 20.78 | 0.120 |
| | | | 836.6 | 20.84 | 0.121 |
| | | | 846.6 | 20.62 | 0.115 |
| | | 4 | 826.4 | 19.75 | 0.094 |
| | | | 836.6 | 19.81 | 0.096 |
| | | | 846.6 | 19.58 | 0.091 |
| | | 5 | 826.4 | 21.69 | 0.148 |
| | | | 836.6 | 21.75 | 0.150 |
| | | | 846.6 | 21.54 | 0.143 |

Note: The peak power testing result was used peak detector.

3 Effective Radiated Power / Equivalent Isotropic Radiated Power Test

3.1. Limit

For FCC Part 22.913(a)(2): The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

For FCC Part 24.232(b): The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

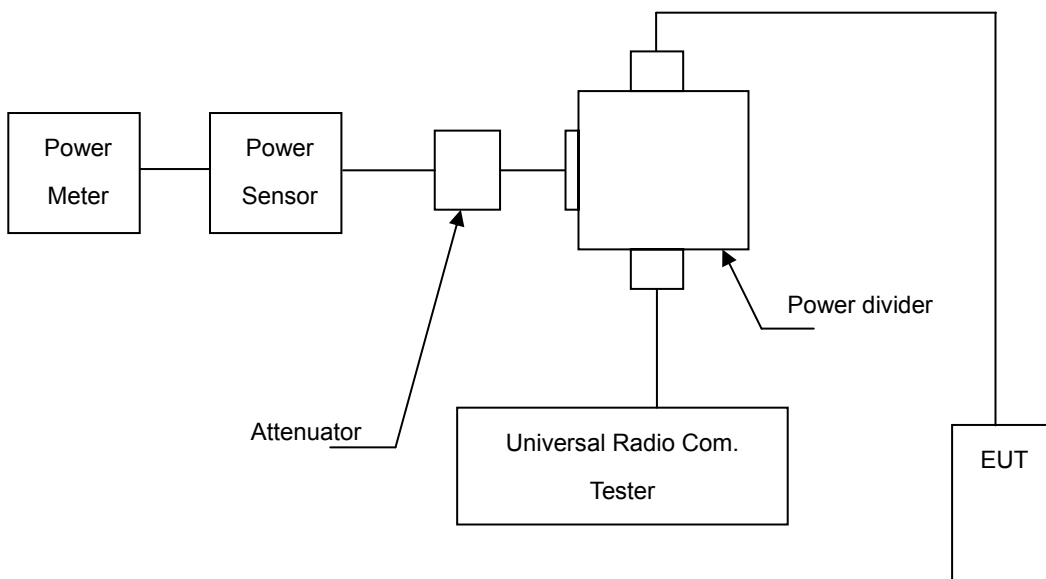
3.2. Test Instruments

| Equipment | Manufacturer | Model Number | Serial Number | Cal. Date | Remark |
|--------------------------------------|--------------|--------------|---------------|------------|--------|
| Universal Radio Communication Tester | R & S | CMU200 | 109369 | 10/21/2014 | (2) |
| Single Channel PK Power Sensor | Agilent | N1911A | MY45101619 | 12/15/2014 | (1) |
| Wideband Power Meter | Agilent | N1921A | MY45241957 | 12/15/2014 | (1) |
| Test Site | ATL | TE05 | TE05 | N.C.R. | ----- |

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

3.3. Test Setup



3.4. Test Procedure

The measurement is made according to as follows:

1. The transmitter output was connected to power meter and base station through Power Divider.
2. Set base station for EUT at GSM 850: PCL=5 and PCS 1900: PCL=0.
3. Set base station for EUT at WCDMA Band V and WCDMA Band II, power level was set to maximum.
4. Select lowest, middle, and highest channels for each band.

3.5. Uncertainty

The measurement uncertainty is defined as for RF output power measurement is 1.2 dB.

3.6. Test Result

| Model Number | LE910-NA V2 | | | | | | |
|---------------|-----------------|-----------------|---------------------------|--------------------|--------------|-------------|-------|
| Test Item | ERP/EIRP | | | | | | |
| Date of Test | 06/18/2015 | | | | Test Site | TE01 | |
| Bands | Modulation Type | Frequency (MHz) | Burst Average Power (dBm) | Antenna Gain (dBi) | EIRP | | Limit |
| | | | | | (dBm) | (W) | |
| WCDMA Band II | QPSK | 1852.4 | 23.66 | 2.14 | 25.80 | 0.38 | < 2W |
| | | 1880.0 | 23.64 | 2.14 | 25.78 | 0.38 | < 2W |
| | | 1907.6 | 23.57 | 2.14 | 25.71 | 0.37 | < 2W |

| Model Number | LE910-NA V2 | | | | | | |
|--------------|-----------------|-----------------|---------------------------|--------------------|--------------|-------------|-------|
| Test Item | ERP/EIRP | | | | | | |
| Date of Test | 06/18/2015 | | | | Test Site | TE01 | |
| Bands | Modulation Type | Frequency (MHz) | Burst Average Power (dBm) | Antenna Gain (dBi) | ERP | | Limit |
| | | | | | (dBm) | (W) | |
| WCDMA Band V | QPSK | 826.4 | 23.55 | 2.14 | 23.54 | 0.23 | < 7W |
| | | 836.6 | 23.59 | 2.14 | 23.58 | 0.23 | < 7W |
| | | 846.6 | 23.46 | 2.14 | 23.45 | 0.22 | < 7W |

Note: ERP = Peak Conducted power + Antenna Gain - 2.15, EIRP = Peak Conducted power + Antenna Gain

4 Peak to Average Ratio Test

4.1. Limit

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

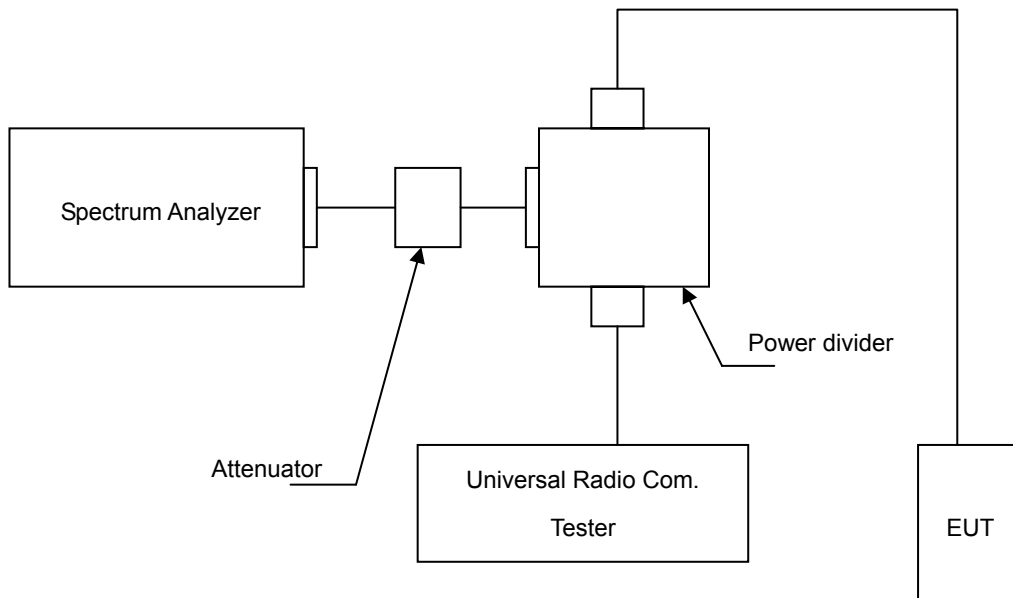
4.2. Test Instruments

| Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Remark |
|-----------------------------------|--------------|-----------|------------|------------|------------------|
| Spectrum Analyzer | Agilent | E4445A | MY46181986 | 05/14/2015 | (¹) |
| Wideband Radio Communication Test | R & S | CMW500 | 103168 | 11/05/2014 | (¹) |
| Attenuator | RADIALL | R41572000 | 0603033073 | N.C.R. | ---- |
| Power divider | Agilent | 87302C | 3239A00760 | N.C.R. | ---- |
| Test Site | ATL | TE05 | TE05 | N.C.R. | ---- |

Remark: (¹) Calibration period 1 year. (²) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

4.3. Setup



4.4. Test Procedure

The measurement is made according to FCC rules part 24:

- Set resolution/measurement bandwidth signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- Record the maximum PAPR level associated with a probability of 0.1%.

4.5. Uncertainty

The measurement uncertainty is defined as for Conducted Power measurement is 1.2 dB.

4.6. Test Result

| Model Number | LE910-NA V2 | | | | |
|---------------|-----------------------|-----------------|----------------------------|------------|------|
| Test Item | Peak to Average Ratio | | | | |
| Date of Test | 06/10/2015 | | | Test Site | TE05 |
| Bands | Channel | Frequency (MHz) | Peak to Average Ratio (dB) | Limit (dB) | |
| WCDMA Band II | 9262 | 1852.4 | 3.36 | < 13 | |
| | 9400 | 1880.0 | 3.17 | < 13 | |
| | 9538 | 1907.6 | 3.19 | < 13 | |

4.7. Test Graphs

| Mode 1: WCDMA Band II Link Mode | | | | | | | | | | | | | | | | | |
|---------------------------------|--|--------|---------|-------|---------|-------|---------|--------|---------|---------|---------|----------|---------|------|---------|--|-----------|
| 1850.20 MHz | <p>Average Power 23.66 dBm 52.57 % at 0dB</p> <table border="1"> <tr><td>10.0 %</td><td>1.77 dB</td></tr> <tr><td>1.0 %</td><td>2.78 dB</td></tr> <tr><td>0.1 %</td><td>3.36 dB</td></tr> <tr><td>0.01 %</td><td>3.61 dB</td></tr> <tr><td>0.001 %</td><td>3.75 dB</td></tr> <tr><td>0.0001 %</td><td>3.86 dB</td></tr> <tr><td>Peak</td><td>3.86 dB</td></tr> <tr><td></td><td>27.52 dBm</td></tr> </table> <p>Center Freq: 1.852400000 GHz Trig: Free Run #Att: 40 dB Counts: 2.68 M5.00 Mpt Radio Std: None Info BW 5.0000 MHz</p> | 10.0 % | 1.77 dB | 1.0 % | 2.78 dB | 0.1 % | 3.36 dB | 0.01 % | 3.61 dB | 0.001 % | 3.75 dB | 0.0001 % | 3.86 dB | Peak | 3.86 dB | | 27.52 dBm |
| 10.0 % | 1.77 dB | | | | | | | | | | | | | | | | |
| 1.0 % | 2.78 dB | | | | | | | | | | | | | | | | |
| 0.1 % | 3.36 dB | | | | | | | | | | | | | | | | |
| 0.01 % | 3.61 dB | | | | | | | | | | | | | | | | |
| 0.001 % | 3.75 dB | | | | | | | | | | | | | | | | |
| 0.0001 % | 3.86 dB | | | | | | | | | | | | | | | | |
| Peak | 3.86 dB | | | | | | | | | | | | | | | | |
| | 27.52 dBm | | | | | | | | | | | | | | | | |
| 1880.00 MHz | <p>Average Power 23.65 dBm 53.11 % at 0dB</p> <table border="1"> <tr><td>10.0 %</td><td>1.73 dB</td></tr> <tr><td>1.0 %</td><td>2.65 dB</td></tr> <tr><td>0.1 %</td><td>3.17 dB</td></tr> <tr><td>0.01 %</td><td>3.38 dB</td></tr> <tr><td>0.001 %</td><td>3.50 dB</td></tr> <tr><td>0.0001 %</td><td>3.59 dB</td></tr> <tr><td>Peak</td><td>3.61 dB</td></tr> <tr><td></td><td>27.26 dBm</td></tr> </table> <p>Center Freq: 1.880000000 GHz Trig: Free Run #Att: 40 dB Counts: 4.49 M5.00 Mpt Radio Std: None Info BW 5.0000 MHz</p> | 10.0 % | 1.73 dB | 1.0 % | 2.65 dB | 0.1 % | 3.17 dB | 0.01 % | 3.38 dB | 0.001 % | 3.50 dB | 0.0001 % | 3.59 dB | Peak | 3.61 dB | | 27.26 dBm |
| 10.0 % | 1.73 dB | | | | | | | | | | | | | | | | |
| 1.0 % | 2.65 dB | | | | | | | | | | | | | | | | |
| 0.1 % | 3.17 dB | | | | | | | | | | | | | | | | |
| 0.01 % | 3.38 dB | | | | | | | | | | | | | | | | |
| 0.001 % | 3.50 dB | | | | | | | | | | | | | | | | |
| 0.0001 % | 3.59 dB | | | | | | | | | | | | | | | | |
| Peak | 3.61 dB | | | | | | | | | | | | | | | | |
| | 27.26 dBm | | | | | | | | | | | | | | | | |
| 1909.80 MHz | <p>Average Power 23.57 dBm 52.78 % at 0dB</p> <table border="1"> <tr><td>10.0 %</td><td>1.74 dB</td></tr> <tr><td>1.0 %</td><td>2.69 dB</td></tr> <tr><td>0.1 %</td><td>3.19 dB</td></tr> <tr><td>0.01 %</td><td>3.41 dB</td></tr> <tr><td>0.001 %</td><td>3.55 dB</td></tr> <tr><td>0.0001 %</td><td>3.61 dB</td></tr> <tr><td>Peak</td><td>3.63 dB</td></tr> <tr><td></td><td>27.20 dBm</td></tr> </table> <p>Center Freq: 1.907800000 GHz Trig: Free Run #Att: 40 dB Counts: 3.39 M5.00 Mpt Radio Std: None Info BW 5.0000 MHz</p> | 10.0 % | 1.74 dB | 1.0 % | 2.69 dB | 0.1 % | 3.19 dB | 0.01 % | 3.41 dB | 0.001 % | 3.55 dB | 0.0001 % | 3.61 dB | Peak | 3.63 dB | | 27.20 dBm |
| 10.0 % | 1.74 dB | | | | | | | | | | | | | | | | |
| 1.0 % | 2.69 dB | | | | | | | | | | | | | | | | |
| 0.1 % | 3.19 dB | | | | | | | | | | | | | | | | |
| 0.01 % | 3.41 dB | | | | | | | | | | | | | | | | |
| 0.001 % | 3.55 dB | | | | | | | | | | | | | | | | |
| 0.0001 % | 3.61 dB | | | | | | | | | | | | | | | | |
| Peak | 3.63 dB | | | | | | | | | | | | | | | | |
| | 27.20 dBm | | | | | | | | | | | | | | | | |

5 Emission Bandwidth & Occupied Bandwidth Test

5.1. Limit

The Occupied Bandwidth Limit:

N/A.

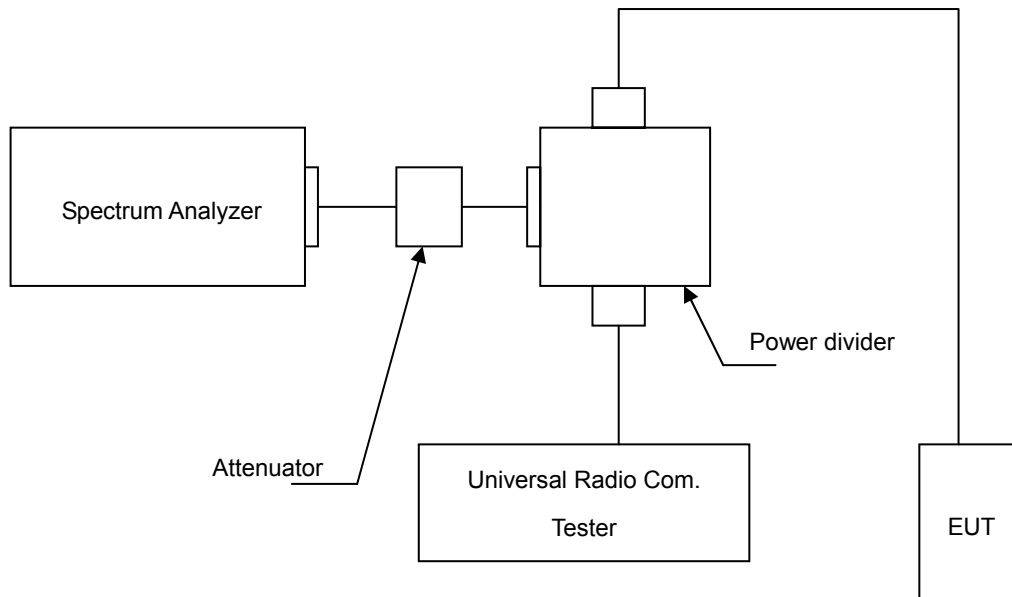
5.2. Test Instruments

| Equipment | Manufacturer | Model Number | Serial Number | Cal. Date | Remark |
|--------------------------------------|--------------|--------------|---------------|------------|--------|
| Universal Radio Communication Tester | R & S | CMU200 | 109369 | 10/21/2014 | (2) |
| Spectrum Analyzer | Agilent | E4445A | MY46181986 | 05/14/2015 | (1) |
| Attenuator | RADIALL | R41572000 | 0603033073 | N.C.R. | ----- |
| Power Divider | Agilent | 87302C | 3239A00760 | N.C.R. | ----- |
| Test Site | ATL | TE05 | TE05 | N.C.R. | ----- |

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

5.3. Setup



5.4. Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT was connected to Spectrum Analyzer and Base Station via Power Divider.
2. The occupied bandwidth of middle channel for the highest and lowest RF powers was measured.

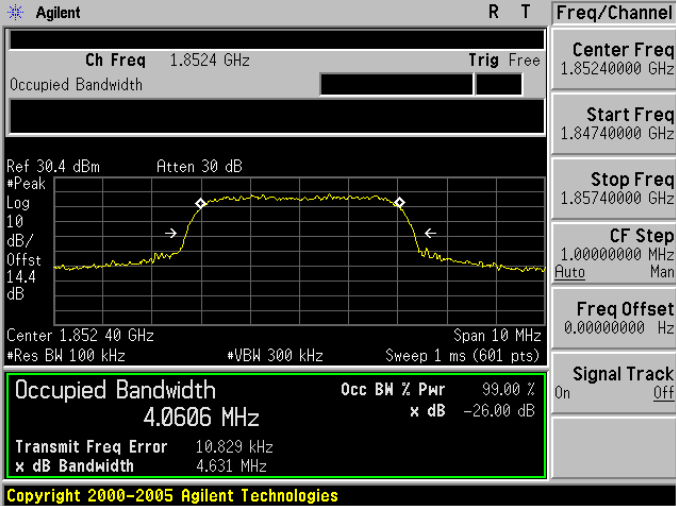
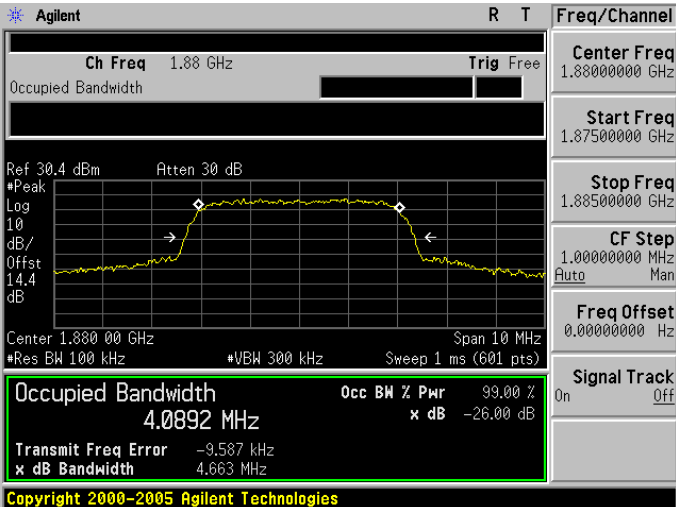
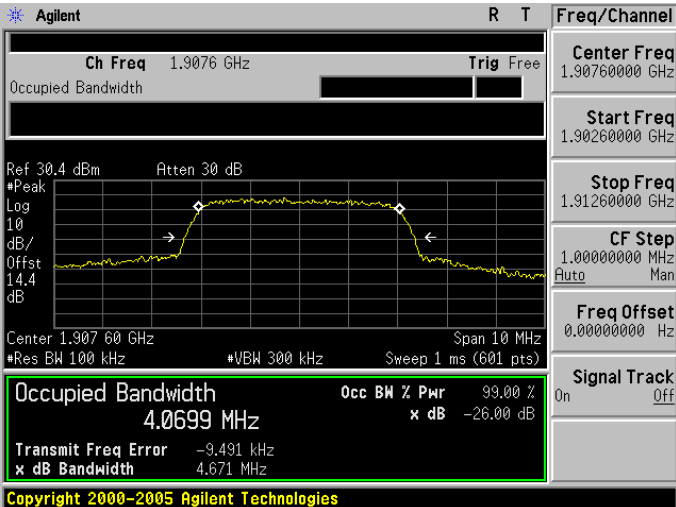
5.5. Uncertainty

The measurement uncertainty is defined as $\pm 10\text{Hz}$

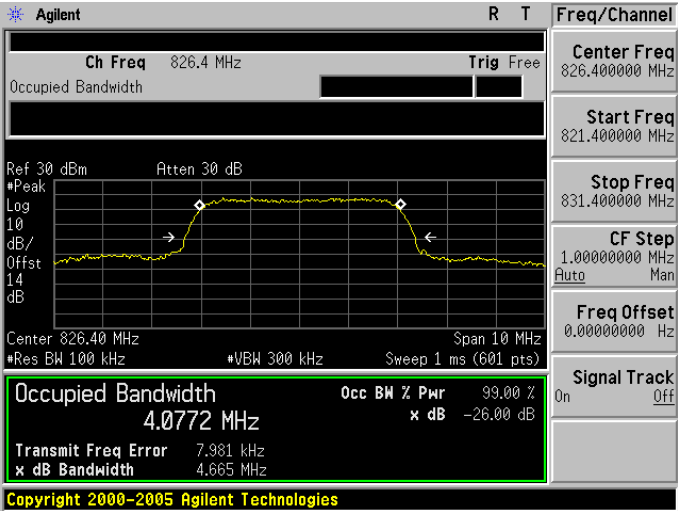
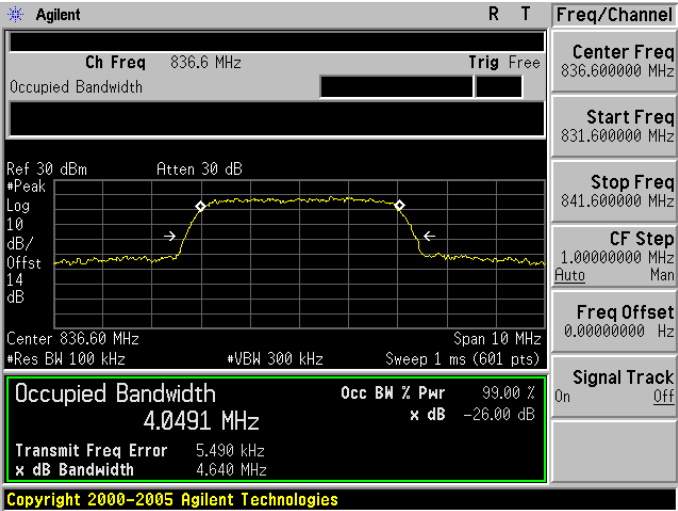
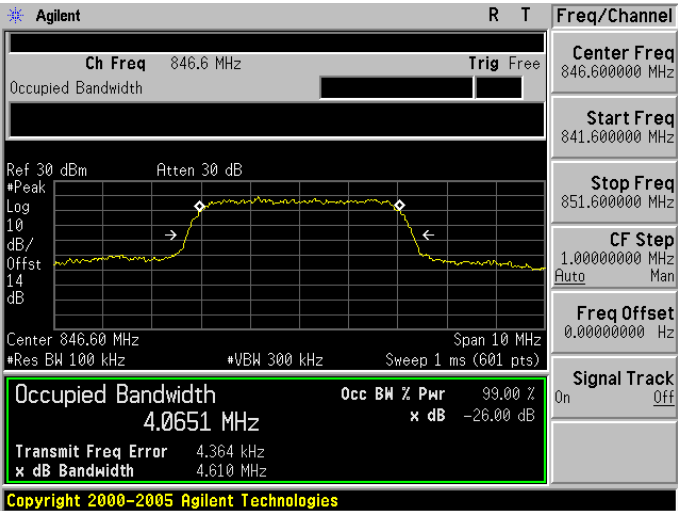
5.6. Test Result

| Model Number | LE910-NA V2 | | | | |
|---------------|---|-----------------|-----------------------|---------------------|-------------------------|
| Test Item | Emission Bandwidth & Occupied Bandwidth | | | | |
| Date of Test | 06/10/2015 | | | Test Site | TE05 |
| Bands | Channel | Frequency (MHz) | -26dB Bandwidth (MHz) | 99% Bandwidth (MHz) | Note |
| WCDMA Band II | 9262 | 1852.4 | 4.631 | 4.0606 | RBW:100KHz , VBW:300KHz |
| | 9400 | 1880.0 | 4.663 | 4.0892 | RBW:100KHz , VBW:300KHz |
| | 9538 | 1907.6 | 4.671 | 4.0699 | RBW:100KHz , VBW:300KHz |
| WCDMA Band V | 4132 | 826.4 | 4.665 | 4.0772 | RBW:100KHz , VBW:300KHz |
| | 4183 | 836.6 | 4.640 | 4.0491 | RBW:100KHz , VBW:300KHz |
| | 4233 | 846.6 | 4.610 | 4.0651 | RBW:100KHz , VBW:300KHz |

5.7. Test Graphs

| Mode 1: WCDMA Band II Link Mode | |
|---------------------------------|--|
| 1850.20 MHz |  <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.8524 GHz Trig Free</p> <p>Center Freq 1.85240000 GHz</p> <p>Start Freq 1.84740000 GHz</p> <p>Stop Freq 1.85740000 GHz</p> <p>CF Step 1.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 30.4 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 14.4 dB</p> <p>Center 1.852 40 GHz Span 10 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 4.0606 MHz Occ BH % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error 10.829 kHz</p> <p>x dB Bandwidth 4.631 MHz</p> <p>Copyright 2000-2005 Agilent Technologies</p> |
| 1880.00 MHz |  <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.88 GHz Trig Free</p> <p>Center Freq 1.88000000 GHz</p> <p>Start Freq 1.87500000 GHz</p> <p>Stop Freq 1.88500000 GHz</p> <p>CF Step 1.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 30.4 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 14.4 dB</p> <p>Center 1.880 00 GHz Span 10 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 4.0892 MHz Occ BH % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -9.587 kHz</p> <p>x dB Bandwidth 4.663 MHz</p> <p>Copyright 2000-2005 Agilent Technologies</p> |
| 1909.80 MHz |  <p>Agilent R T Freq/Channel</p> <p>Ch Freq 1.9076 GHz Trig Free</p> <p>Center Freq 1.90760000 GHz</p> <p>Start Freq 1.90260000 GHz</p> <p>Stop Freq 1.91260000 GHz</p> <p>CF Step 1.00000000 MHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 30.4 dBm Atten 30 dB</p> <p>#Peak Log 10 dB/Offst 14.4 dB</p> <p>Center 1.907 60 GHz Span 10 MHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts)</p> <p>Occupied Bandwidth 4.0699 MHz Occ BH % Pwr 99.00 % x dB -26.00 dB</p> <p>Transmit Freq Error -9.491 kHz</p> <p>x dB Bandwidth 4.671 MHz</p> <p>Copyright 2000-2005 Agilent Technologies</p> |

Mode 2: WCDMA Band V Link Mode

| | |
|------------------|--|
| <p>826.4 MHz</p> |  <p>Agilent R T Freq/Channel</p> <p>Ch Freq 826.4 MHz Trig Free</p> <p>Center Freq 826.400000 MHz</p> <p>Start Freq 821.400000 MHz</p> <p>Stop Freq 831.400000 MHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 30 dBm Atten 30 dB</p> <p>Occupied Bandwidth 4.0772 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB Bandwidth 4.665 MHz</p> <p>Transmit Freq Error 7.981 kHz</p> <p>x dB Bandwidth 4.665 MHz</p> <p>Copyright 2000-2005 Agilent Technologies</p> |
| <p>836.6 MHz</p> |  <p>Agilent R T Freq/Channel</p> <p>Ch Freq 836.6 MHz Trig Free</p> <p>Center Freq 836.600000 MHz</p> <p>Start Freq 831.600000 MHz</p> <p>Stop Freq 841.600000 MHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 30 dBm Atten 30 dB</p> <p>Occupied Bandwidth 4.0491 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB Bandwidth 4.640 MHz</p> <p>Transmit Freq Error 5.490 kHz</p> <p>x dB Bandwidth 4.640 MHz</p> <p>Copyright 2000-2005 Agilent Technologies</p> |
| <p>846.6 MHz</p> |  <p>Agilent R T Freq/Channel</p> <p>Ch Freq 846.6 MHz Trig Free</p> <p>Center Freq 846.600000 MHz</p> <p>Start Freq 841.600000 MHz</p> <p>Stop Freq 851.600000 MHz</p> <p>CF Step 1.00000000 MHz</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p> <p>Ref 30 dBm Atten 30 dB</p> <p>Occupied Bandwidth 4.0651 MHz</p> <p>Occ BW % Pwr 99.00 %</p> <p>x dB Bandwidth 4.610 MHz</p> <p>Transmit Freq Error 4.364 kHz</p> <p>x dB Bandwidth 4.610 MHz</p> <p>Copyright 2000-2005 Agilent Technologies</p> |

6 Band Edge Test

6.1. Limit

The Band Edge Limit:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

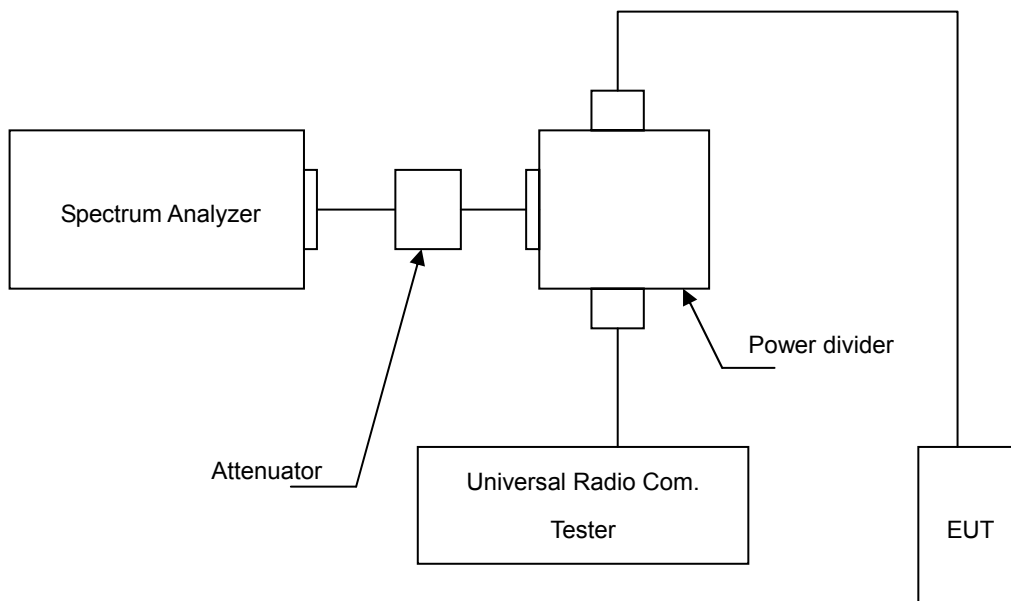
6.2. Test Instruments

| Equipment | Manufacturer | Model Number | Serial Number | Cal. Date | Remark |
|--------------------------------------|--------------|--------------|---------------|------------|--------|
| Universal Radio Communication Tester | R & S | CMU200 | 109369 | 10/21/2014 | (2) |
| Spectrum Analyzer | Agilent | E4445A | MY46181986 | 05/14/2015 | (1) |
| Attenuator | RADIALL | R41572000 | 0603033073 | N.C.R. | ----- |
| Power Divider | Agilent | 87302C | 3239A00760 | N.C.R. | ----- |
| Test Site | ATL | TE05 | TE05 | N.C.R. | ----- |

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

6.3. Setup



6.4. Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT was connected to Spectrum Analyzer and Base Station via Power Divider.
2. The band edge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly BW/100.
3. The band edge setting:
 - a. RB=10 kHz; VB=30 kHz for GSM 850 and PCS 1900.
 - b. RB=51 kHz; VB=160 kHz for WCDMA Band V and WCDMA Band II.

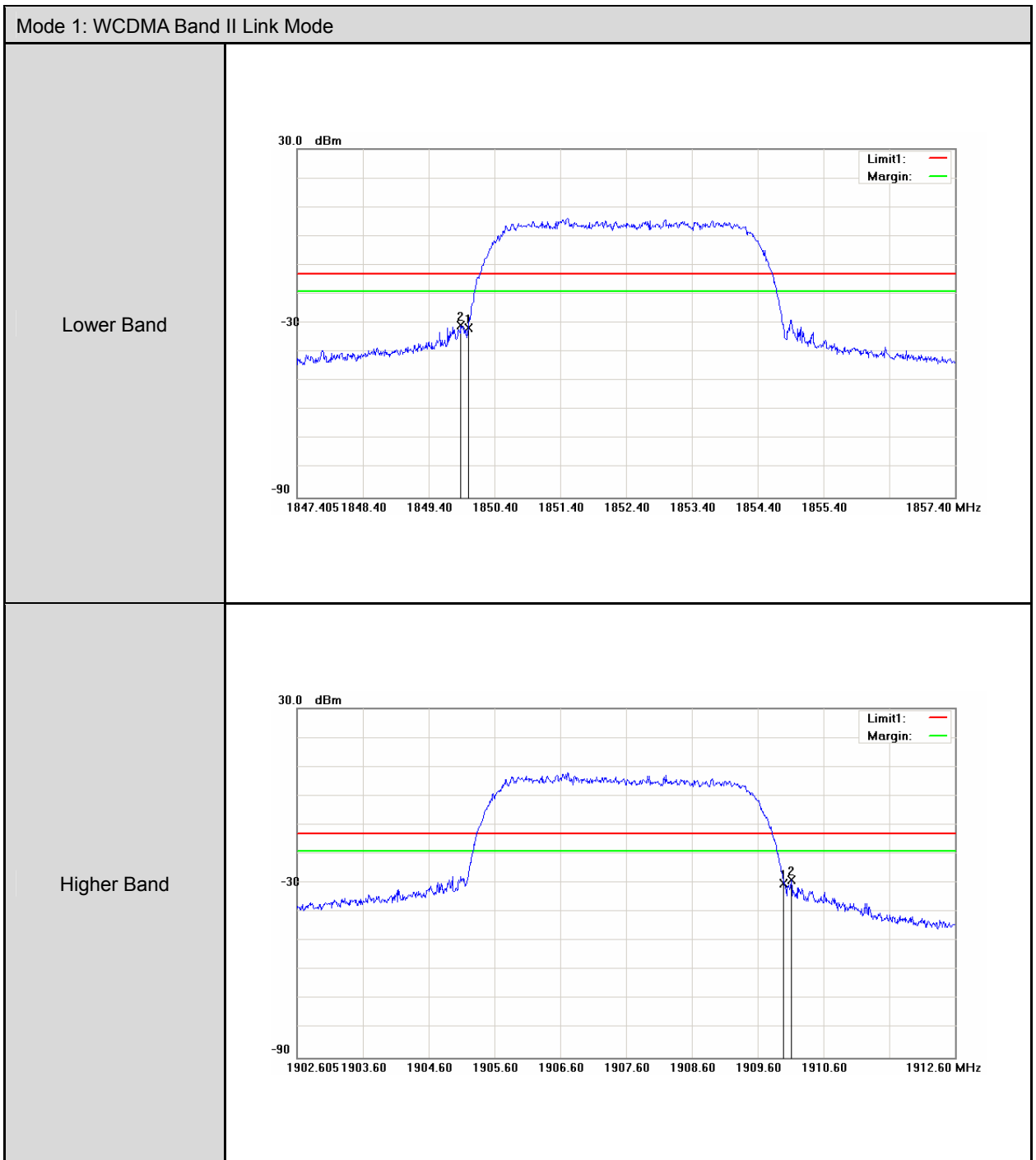
6.5. Uncertainty

The measurement uncertainty is defined as $\pm 10\text{Hz}$

6.6. Test Result

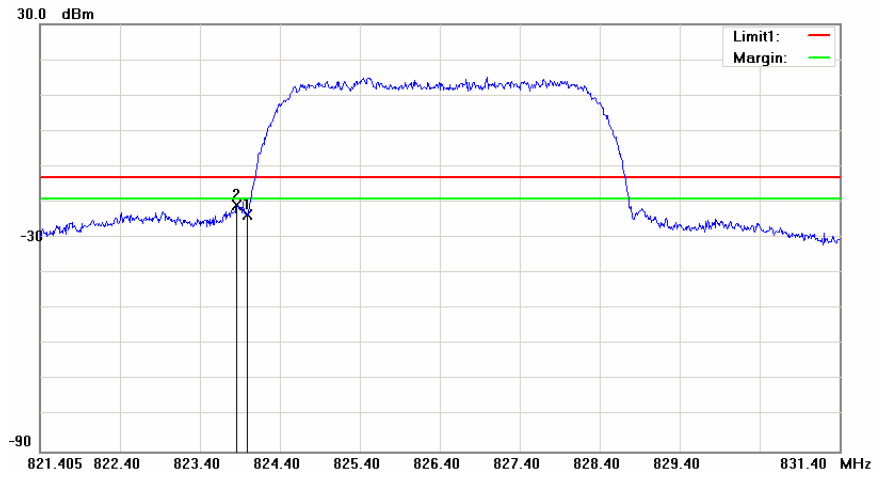
| Model Number | | LE910-NA V2 | | | | |
|---------------|--------|-------------|-----------------|-----------------|-------------|--------|
| Test Item | | Band Edge | | | | |
| Date of Test | | 06/10/2015 | | | Test Site | TE05 |
| Bands | | Channel | Frequency (MHz) | Bandwidth (dBm) | Limit (dBm) | Result |
| WCDMA Band II | Lower | 9262 | 1850.000 | -30.71 | -13 | Pass |
| | Higher | 9538 | 1910.000 | -28.97 | -13 | Pass |
| WCDMA Band V | Lower | 4132 | 824.0000 | -20.85 | -13 | Pass |
| | Higher | 4233 | 849.0000 | -21.09 | -13 | Pass |

6.7. Test Graphs

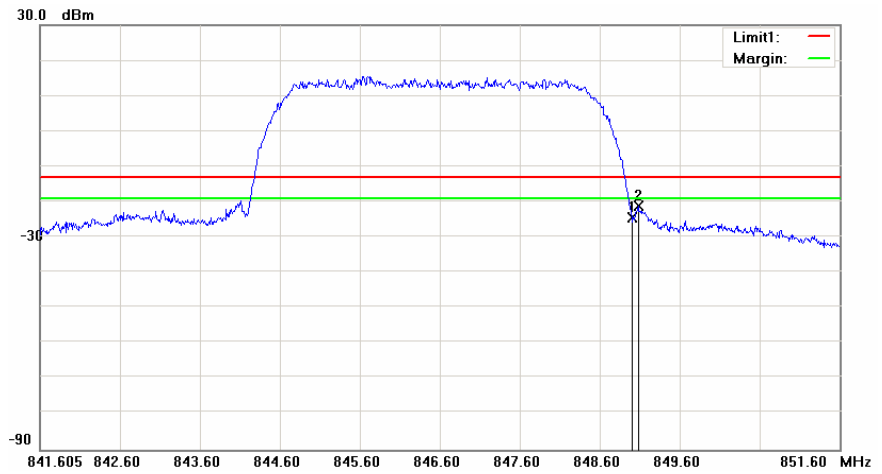


Mode 2: WCDMA Band V Link Mode

Lower Band



Higher Band



7 Conducted Spurious Emission and Radiation Emission Test

7.1. Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

7.2. Test Instruments

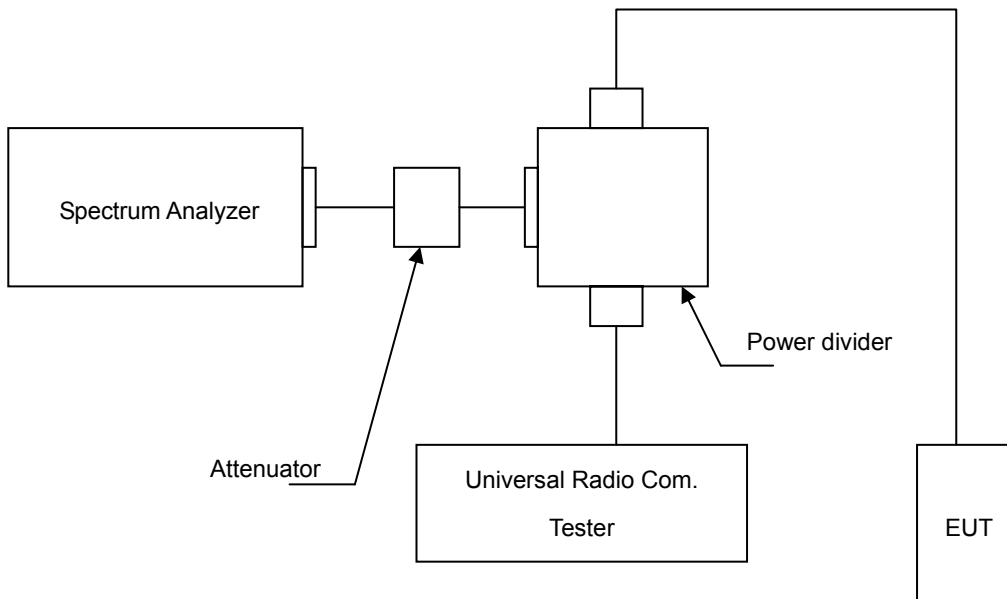
| Equipment | Manufacturer | Model Number | Serial Number | Cal. Date | Remark |
|--------------------------------------|--------------|--------------|---------------|------------|--------|
| Universal Radio Communication Tester | R & S | CMU200 | 109369 | 10/21/2014 | (2) |
| Spectrum Analyzer | Agilent | E4445A | MY46181986 | 05/14/2015 | (1) |
| Attenuator | RADIALL | R41572000 | 0603033073 | N.C.R. | ----- |
| Power Divider | Agilent | 87302C | 3239A00760 | N.C.R. | ----- |
| Test Site | ATL | TE05 | TE05 | N.C.R. | ----- |

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

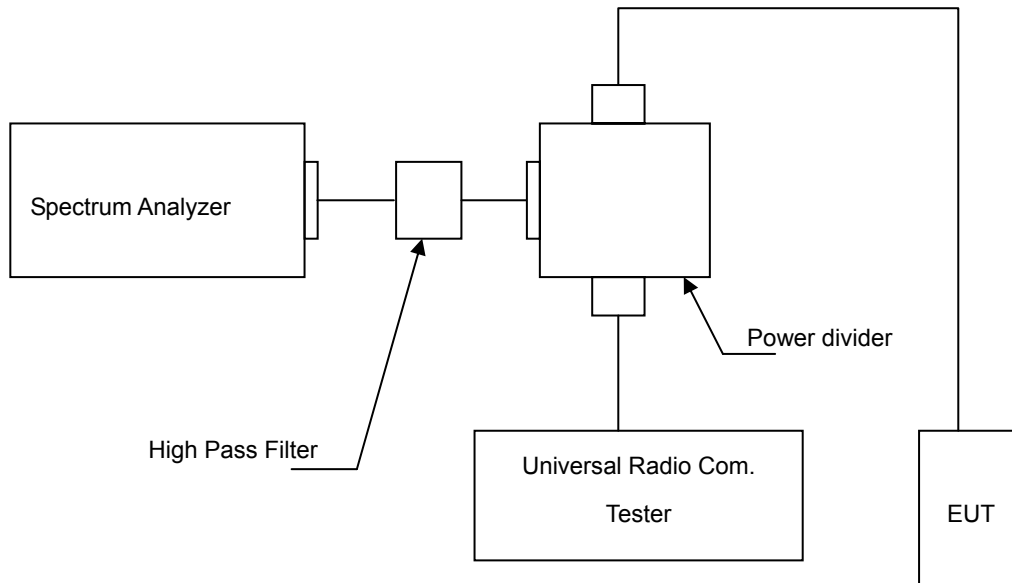
Note: N.C.R. = No Calibration Request.

7.3. Setup

Below 2.8GHz



Above 2.8GHz



7.4. Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via Power Divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.

7.5. Uncertainty

The measurement uncertainty is evaluated as ± 2.24 dB.

7.6. Test Result

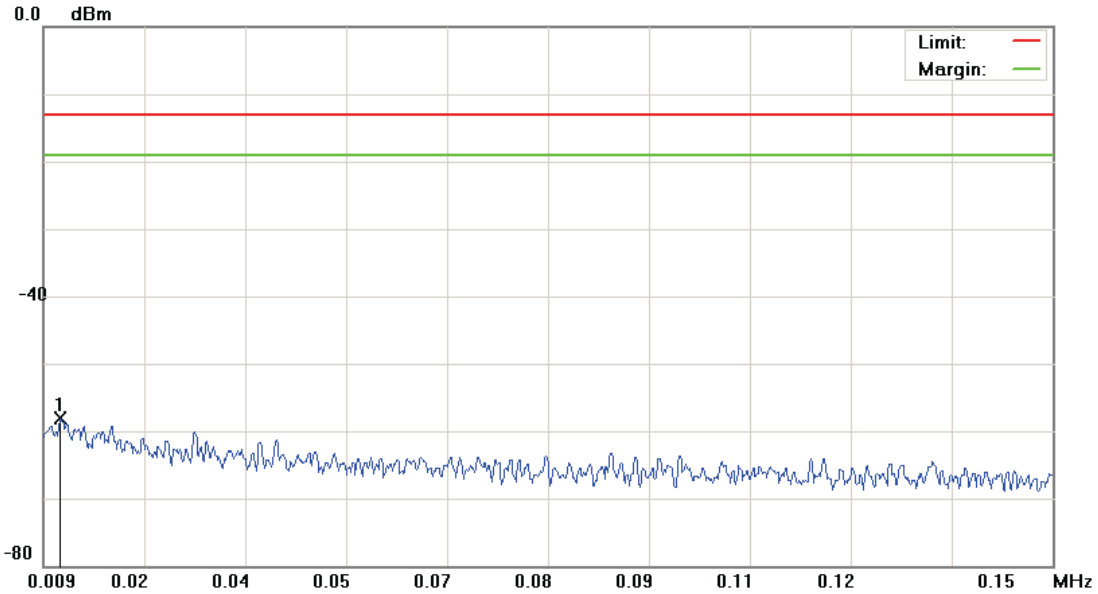
| | | | |
|--------------|--------------------|-----------|------|
| Model Number | LE910-NA V2 | | |
| Test Item | Conducted Emission | | |
| Test Mode | Mode 1 / Mode 2 | | |
| Date of Test | 06/23/2015 | Test Site | TE05 |

File :LE910 NA V2(CH9262)

Data :#1

Date: 2015/6/10

Time: 下午 04:01:49



| | | |
|--|-------------------------------|-----------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1 KHz VBW: 3 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 0.0114 | -69.47 | 11.35 | -58.12 | -13.00 | -45.12 | peak | | |

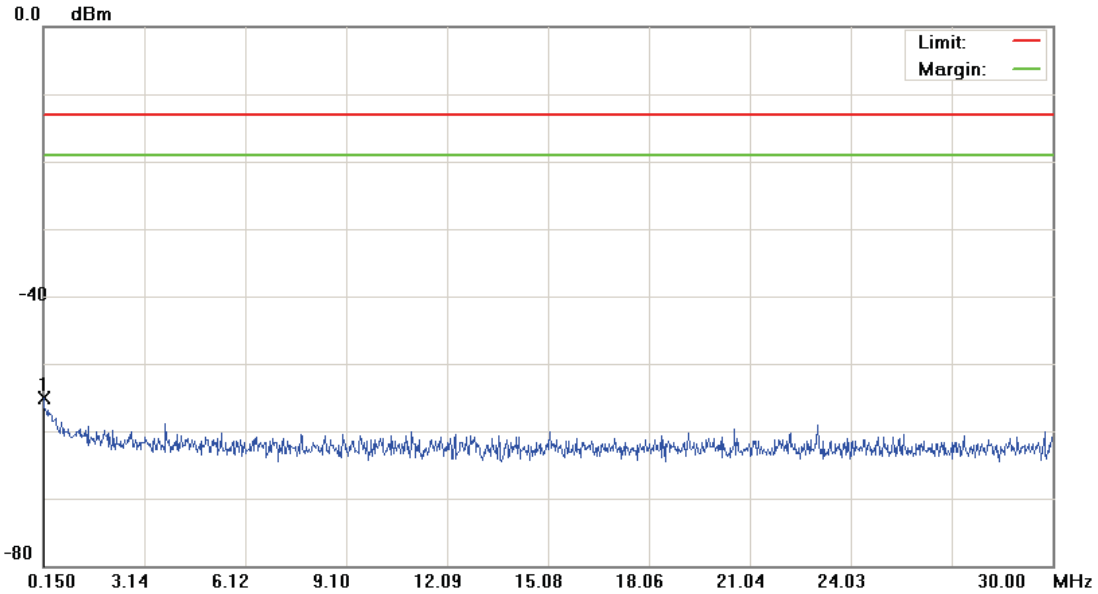
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9262)

Data :#2

Date: 2015/6/10

Time: 下午 04:02:13



| | | |
|--|-------------------------------|-------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 10 KHz VBW: 30 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 0.1500 | -67.48 | 12.47 | -55.01 | -13.00 | -42.01 | peak | | |

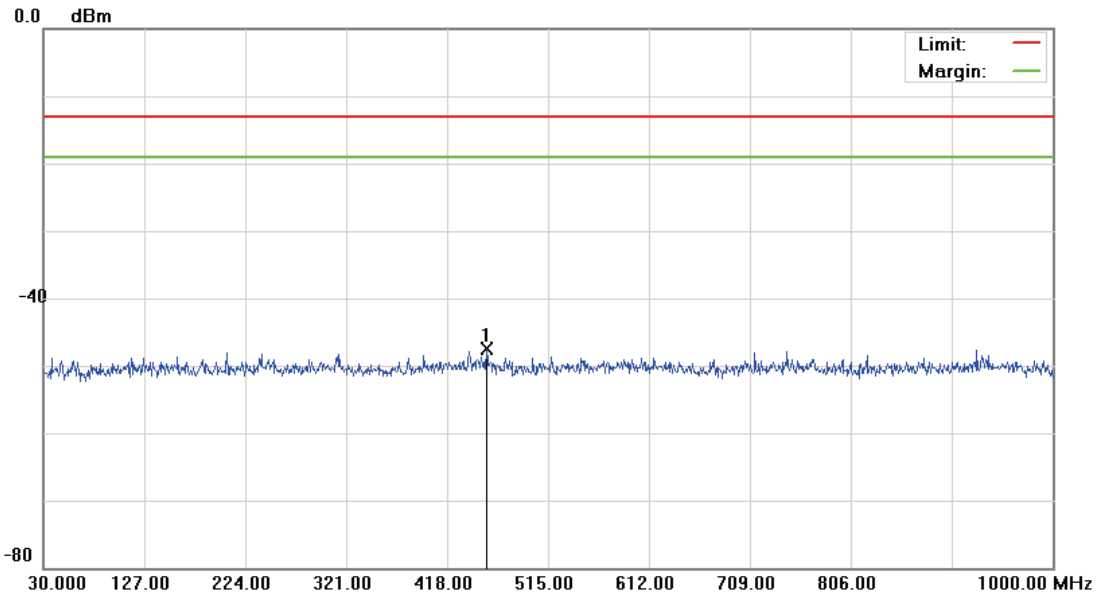
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9262)

Data :#3

Date: 2015/6/10

Time: 下午 04:02:37



| | | |
|--|-------------------------------|---------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 100 KHz VBW: 300 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 455.8300 | -60.69 | 13.22 | -47.47 | -13.00 | -34.47 | peak | | |

*:Maximum data x:Over limit !:over margin

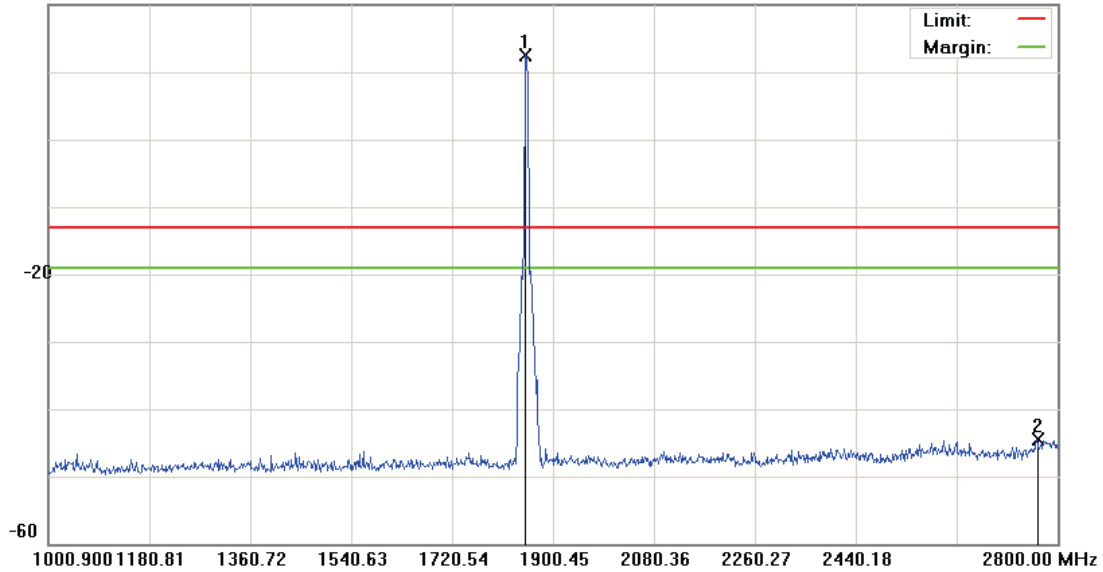
File :LE910 NA V2(CH9262)

Data :#4

Date: 2015/6/10

Time: 下午 04:09:49

20.0 dBm



| | | |
|--|-------------------------------|-----------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1000 KHz VBW: 3000 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. MHz | Reading Level dBm | Correct Factor dB | Measure- ment dBm | Limit dBm | Over dB | Detector | Antenna Height cm | Table Degree | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|----------|-------------------------|-----------------|---------|
| 1 | * | 1850.500 | 8.16 | 4.26 | 12.42 | -13.00 | 25.42 | peak | | | Tx |
| 2 | | 2763.100 | -50.16 | 5.64 | -44.52 | -13.00 | -31.52 | peak | | | |

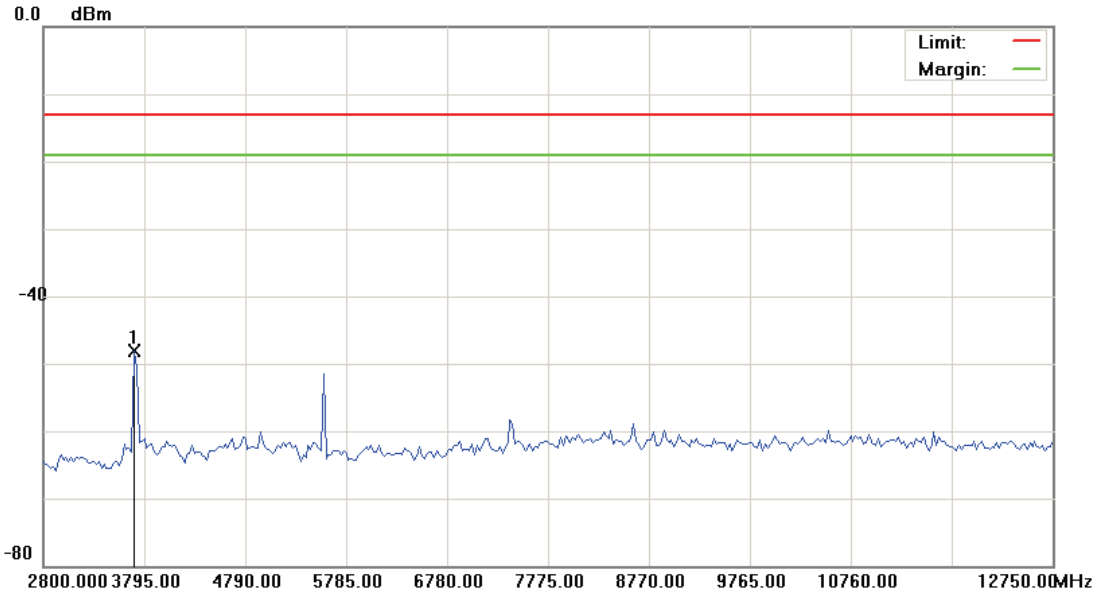
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9262)

Data :#5

Date: 2015/6/10

Time: 下午 04:46:30



| | | |
|--|-------------------------------|-----------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1000 KHz VBW: 3000 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 3695.500 | -53.02 | 4.87 | -48.15 | -13.00 | -35.15 | peak | | |

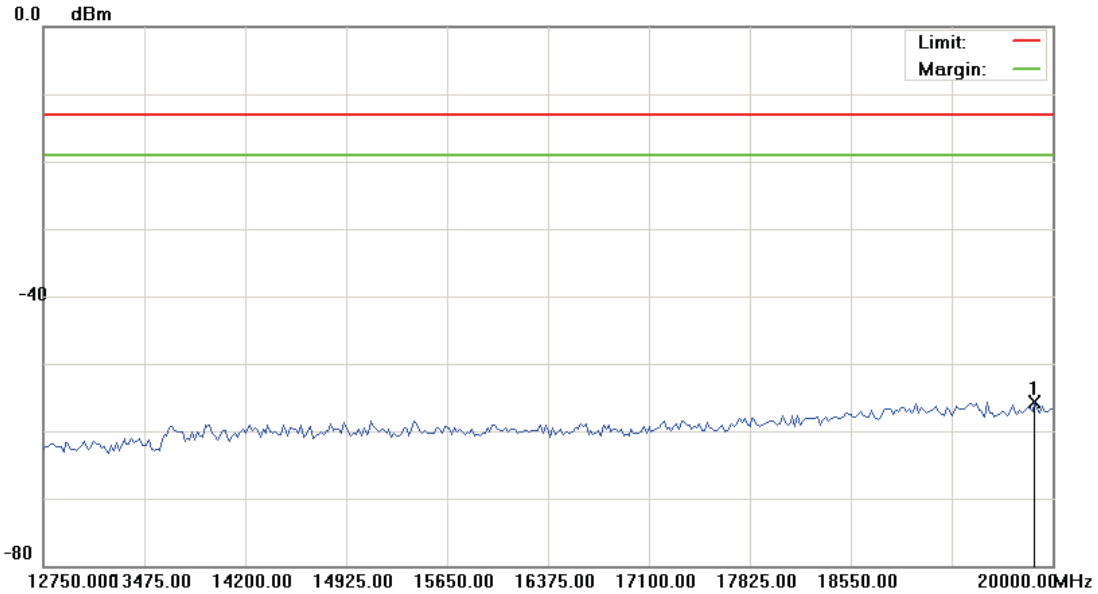
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9262)

Data :#6

Date: 2015/6/10

Time: 下午 04:46:49



| | | |
|--|-------------------------------|-----------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1000 KHz VBW: 3000 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|-----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 19873.125 | -63.01 | 7.40 | -55.61 | -13.00 | -42.61 | peak | | |

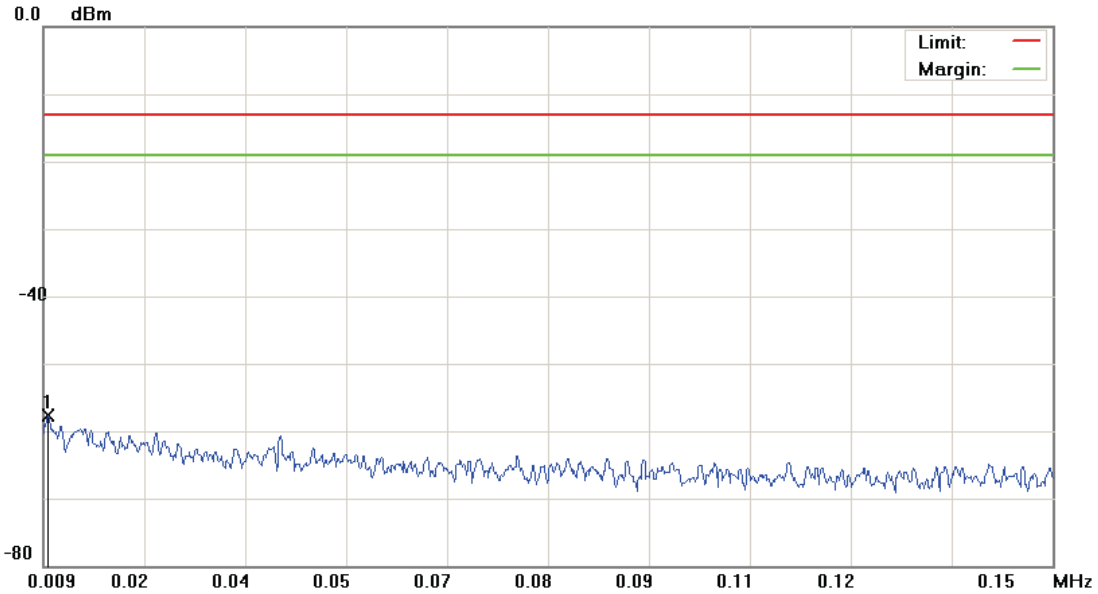
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9400)

Data :#1

Date: 2015/6/10

Time: 下午 04:03:29



| | | |
|--|-------------------------------|-----------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1 KHz VBW: 3 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 0.0097 | -69.09 | 11.33 | -57.76 | -13.00 | -44.76 | peak | | |

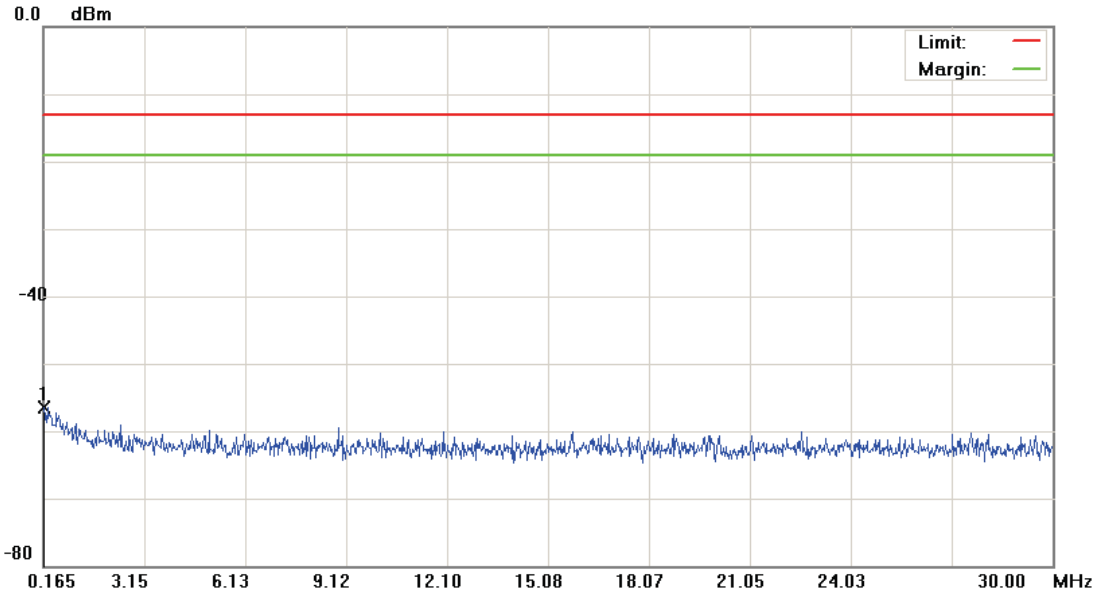
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9400)

Data :#2

Date: 2015/6/10

Time: 下午 04:03:53



| | | |
|--|-------------------------------|-------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 10 KHz VBW: 30 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 0.1948 | -68.90 | 12.45 | -56.45 | -13.00 | -43.45 | peak | | |

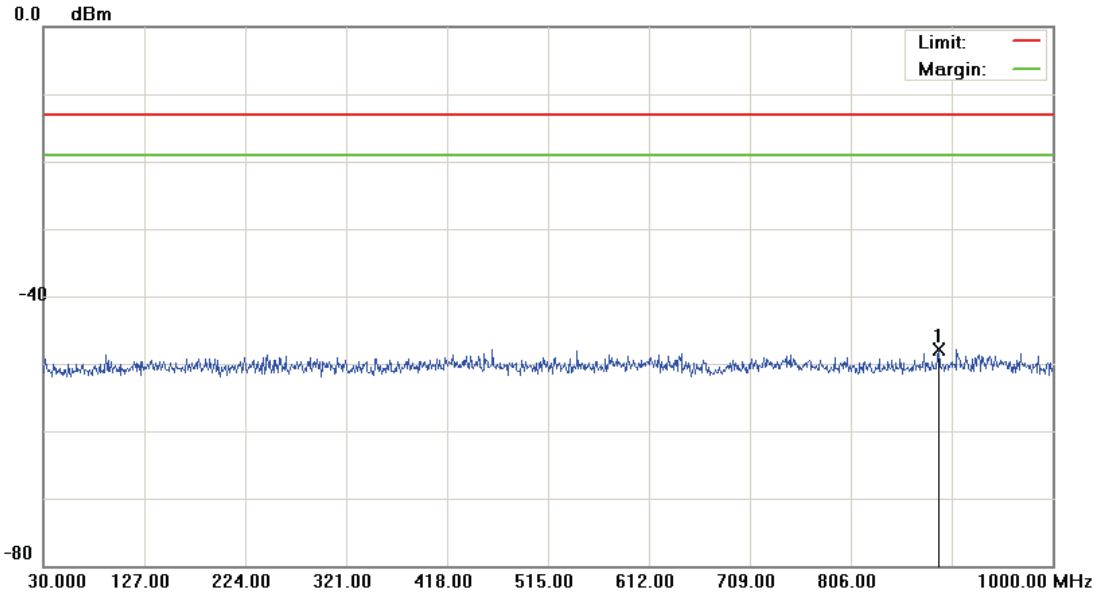
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9400)

Data :#3

Date: 2015/6/10

Time: 下午 04:04:17



| | | |
|--|-------------------------------|---------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 100 KHz VBW: 300 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 890.3900 | -61.07 | 13.22 | -47.85 | -13.00 | -34.85 | peak | | |

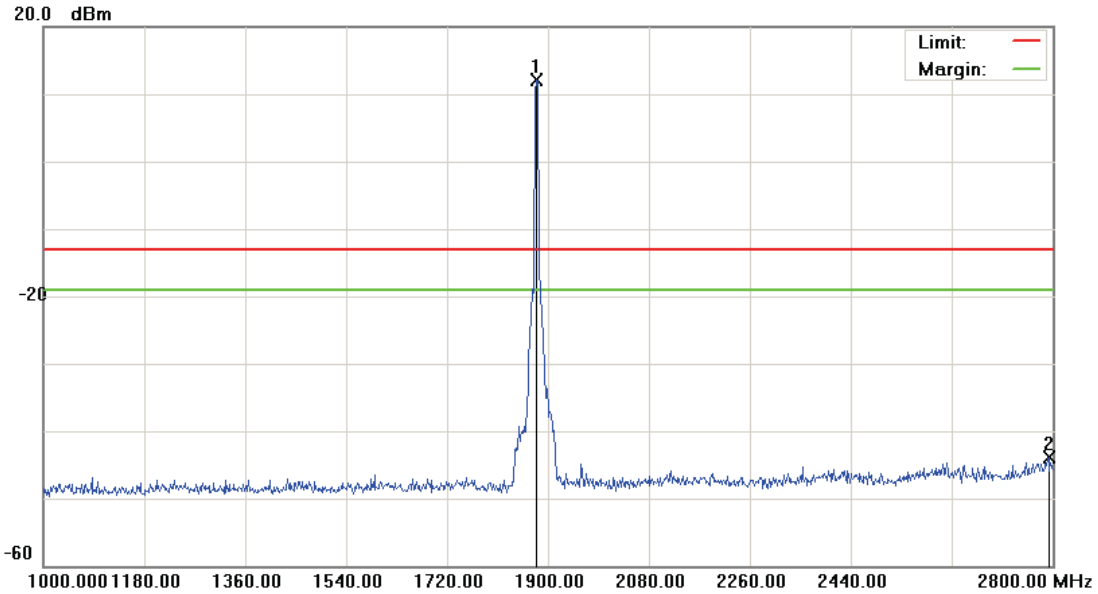
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9400)

Data :#4

Date: 2015/6/10

Time: 下午 04:12:05



| | | |
|--|-------------------------------|-----------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1000 KHz VBW: 3000 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. MHz | Reading Level dBm | Correct Factor dB | Measure- ment dBm | Limit dBm | Over dB | Detector | Antenna Height cm | Table Degree degree | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|----------|-------------------------|---------------------------|---------|
| 1 | * | 1878.400 | 7.45 | 4.61 | 12.06 | -13.00 | 25.06 | peak | | | Tx |
| 2 | | 2792.800 | -49.84 | 5.90 | -43.94 | -13.00 | -30.94 | peak | | | |

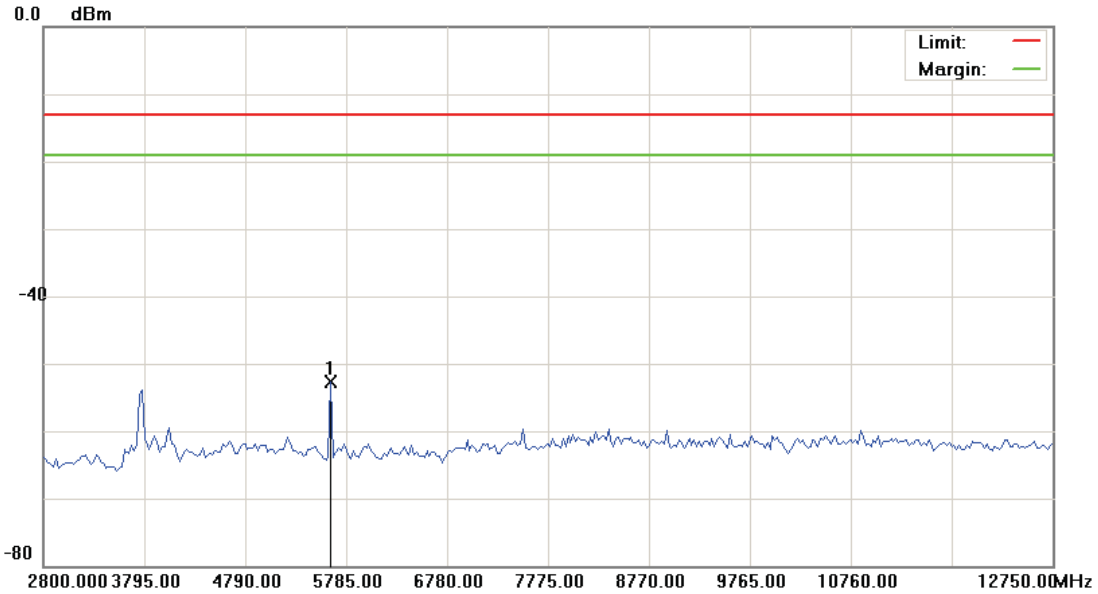
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9400)

Data :#5

Date: 2015/6/10

Time: 下午 04:47:18



| | | |
|--|-------------------------------|-----------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1000 KHz VBW: 3000 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 5635.750 | -57.52 | 4.86 | -52.66 | -13.00 | -39.66 | peak | | |

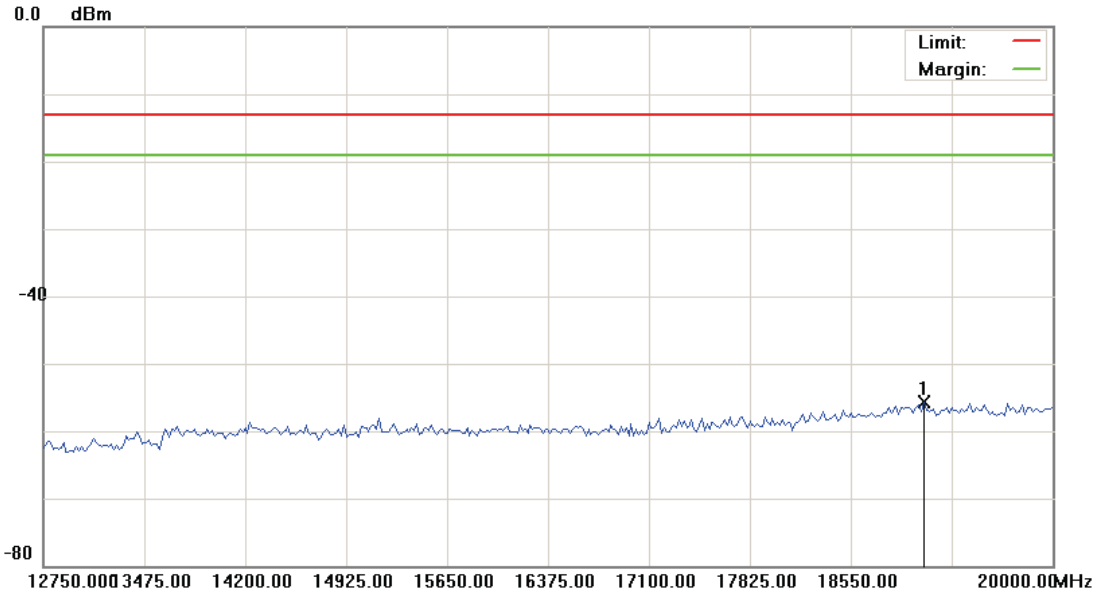
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9400)

Data :#6

Date: 2015/6/10

Time: 下午 04:47:37



| | | |
|--|-------------------------------|-----------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1000 KHz VBW: 3000 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|-----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 19075.625 | -62.90 | 7.18 | -55.72 | -13.00 | -42.72 | peak | | |

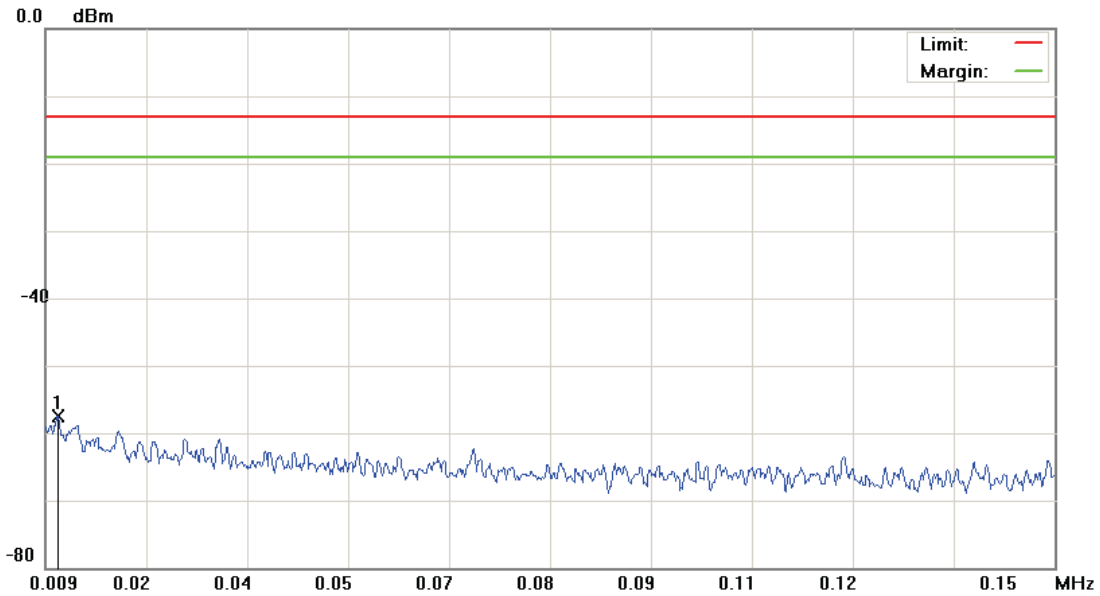
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9538)

Data :#1

Date: 2015/6/10

Time: 下午 04:05:32



| | | |
|--|-------------------------------|-----------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1 KHz VBW: 3 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 0.0107 | -68.74 | 11.34 | -57.40 | -13.00 | -44.40 | | | peak |

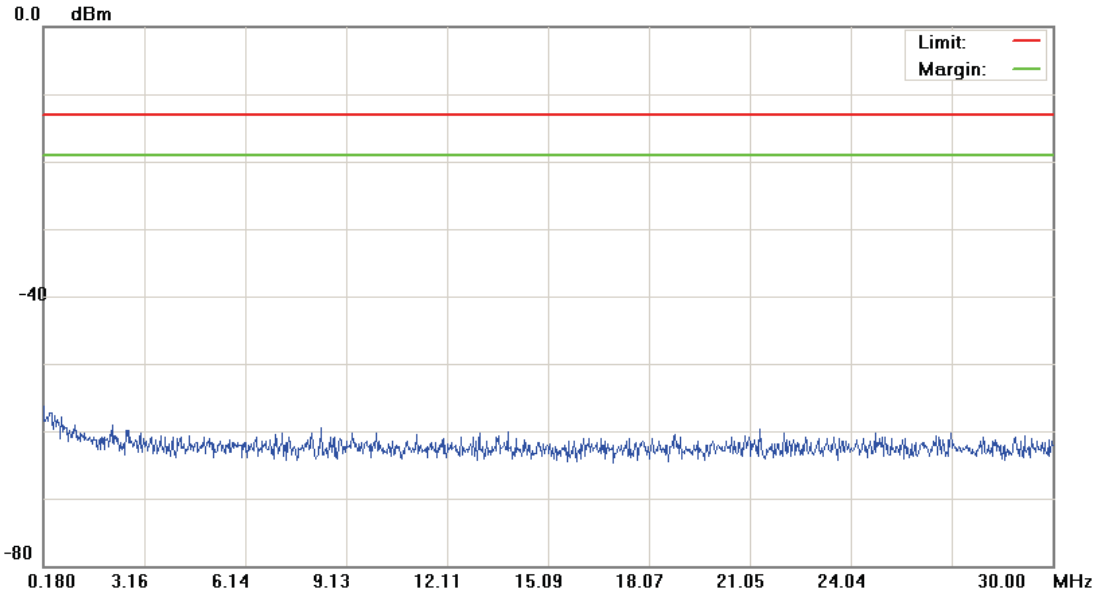
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9538)

Data :#2

Date: 2015/6/10

Time: 下午 04:05:56



| | | |
|--|-------------------------------|-------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 10 KHz VBW: 30 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 0.1798 | -68.83 | 12.45 | -56.38 | -13.00 | -43.38 | peak | | |

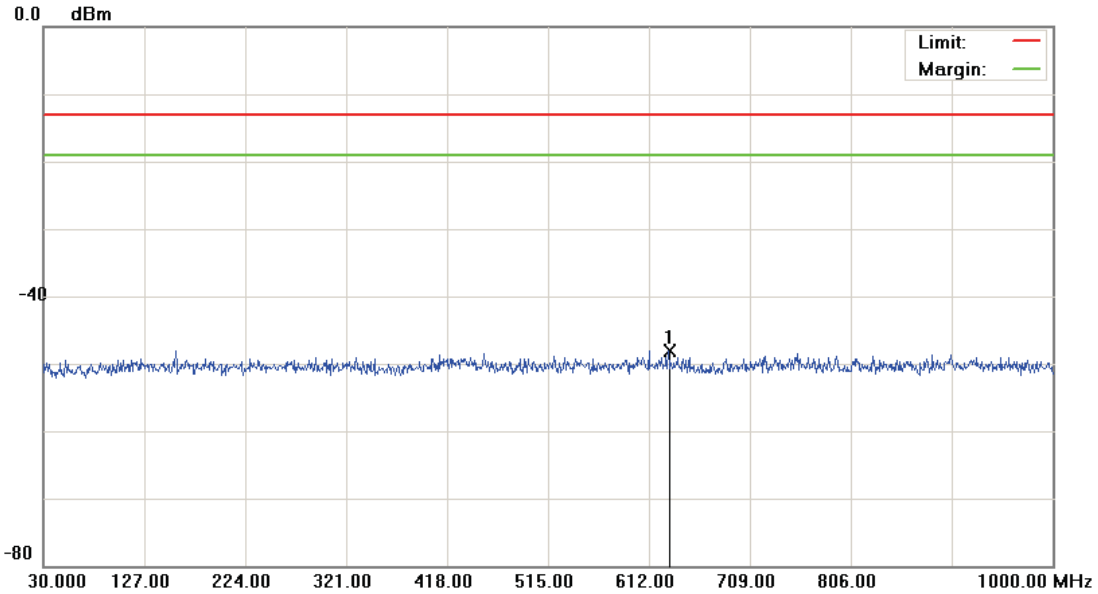
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9538)

Data :#3

Date: 2015/6/10

Time: 下午 04:06:20



| | | |
|--|-------------------------------|---------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 100 KHz VBW: 300 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 630.9150 | -61.29 | 13.13 | -48.16 | -13.00 | -35.16 | | | peak |

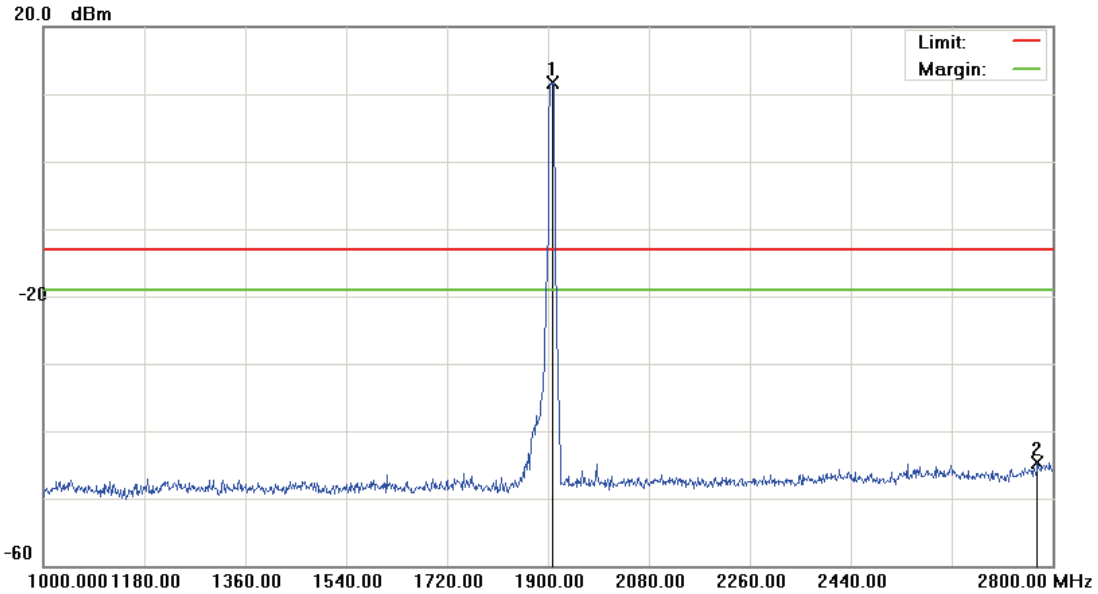
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9538)

Data :#4

Date: 2015/6/10

Time: 下午 04:13:07



| | | |
|--|-------------------------------|-----------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1000 KHz VBW: 3000 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. MHz | Reading Level dBm | Correct Factor dB | Measure- ment dBm | Limit dBm | Over dB | Antenna Height cm | Table Degree | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|-------------------------|-----------------|---------|
| 1 | * | 1906.300 | 5.69 | 6.05 | 11.74 | -13.00 | 24.74 | peak | | Tx |
| 2 | | 2773.000 | -50.39 | 5.78 | -44.61 | -13.00 | -31.61 | peak | | |

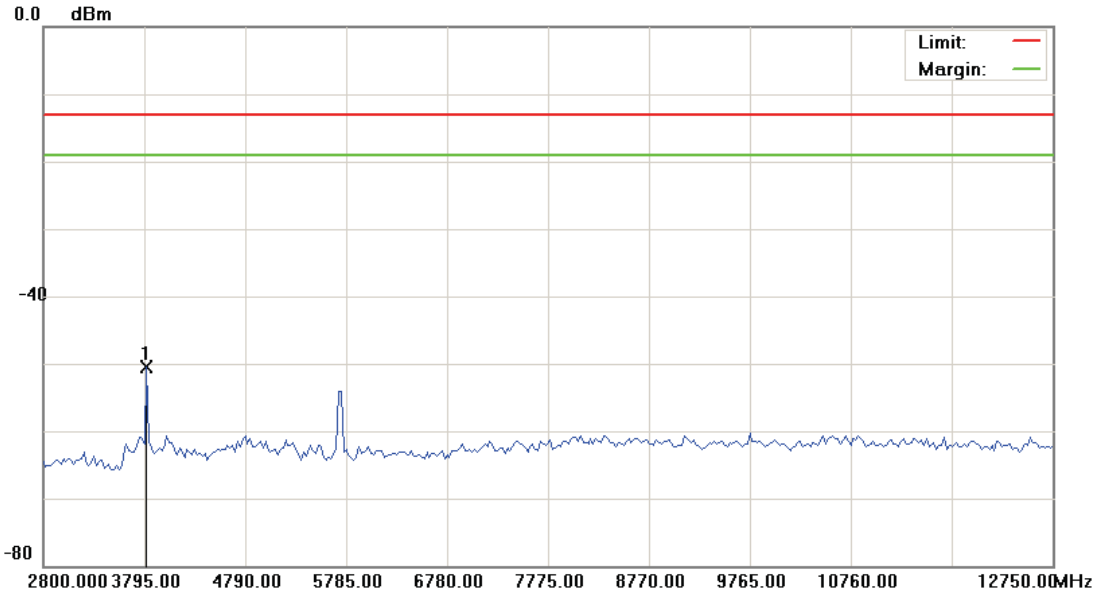
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9538)

Data :#5

Date: 2015/6/10

Time: 下午 04:48:48



| | | |
|--|-------------------------------|-----------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1000 KHz VBW: 3000 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 3819.875 | -55.44 | 4.91 | -50.53 | -13.00 | -37.53 | peak | | |

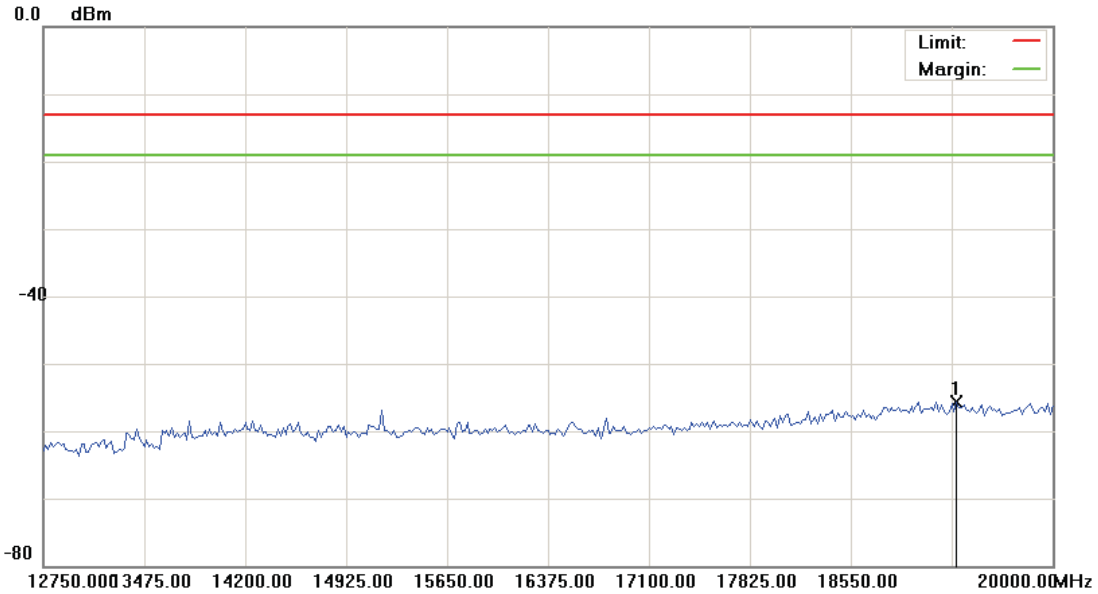
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH9538)

Data :#6

Date: 2015/6/10

Time: 下午 04:49:07



| | | |
|--|-------------------------------|-----------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 24 conducted(9k-26.5G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1000 KHz VBW: 3000 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band II | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|-----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 19311.250 | -62.89 | 7.24 | -55.65 | -13.00 | -42.65 | peak | | |

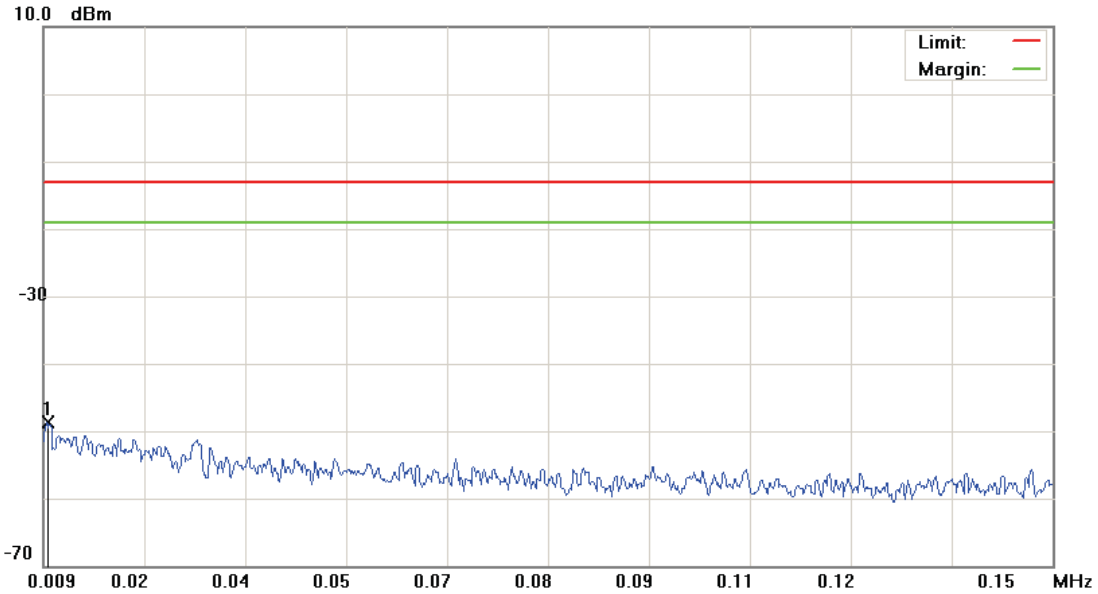
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH4132)

Data :#1

Date: 2015/6/10

Time: 下午 04:15:07



| | | |
|---|-------------------------------|-----------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 22 conducted(9k-12.75G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1 KHz VBW: 3 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band V | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 0.0095 | -79.36 | 30.58 | -48.78 | -13.00 | -35.78 | peak | | |

*:Maximum data x:Over limit !:over margin

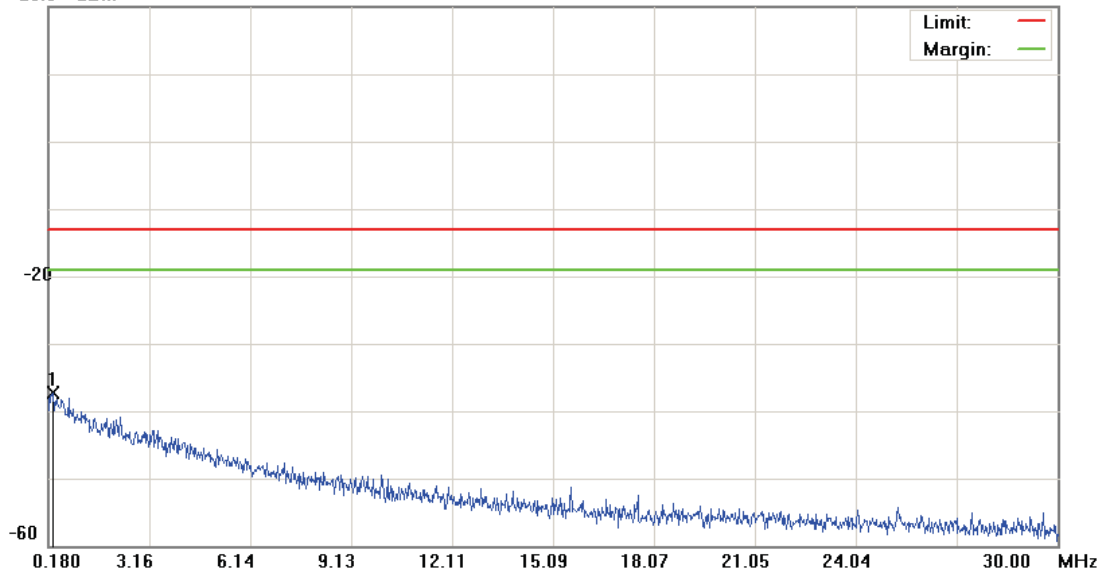
File :LE910 NA V2(CH4132)

Data :#2

Date: 2015/6/10

Time: 下午 04:15:31

20.0 dBm



| | | |
|---|-------------------------------|-------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 22 conducted(9k-12.75G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 10 KHz VBW: 30 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band V | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 0.2993 | -69.03 | 31.73 | -37.30 | -13.00 | -24.30 | peak | | |

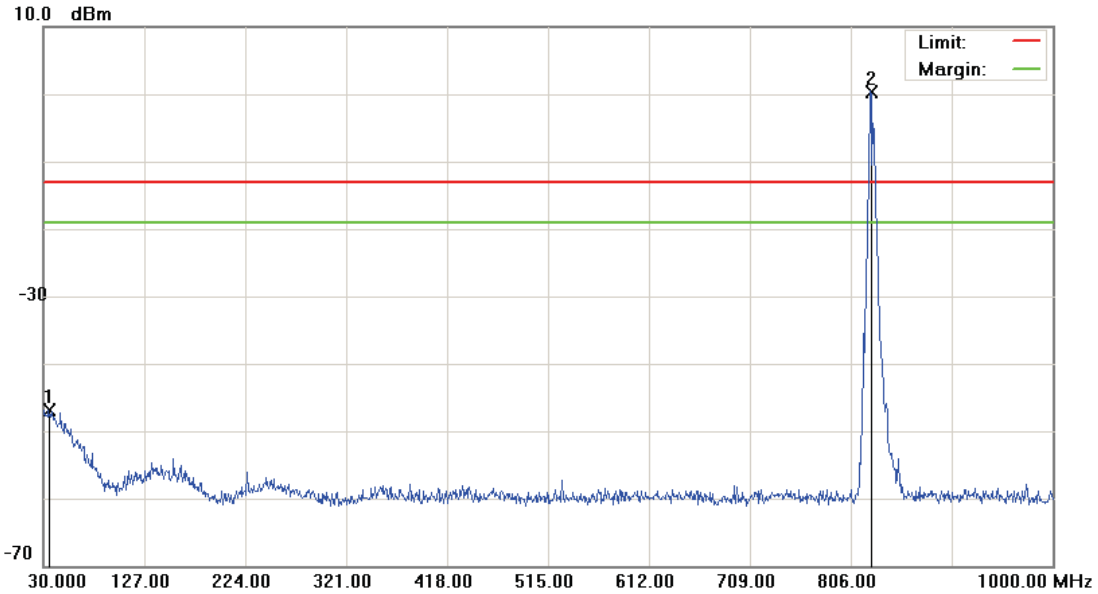
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH4132)

Data :#3

Date: 2015/6/10

Time: 下午 04:15:55



| | | |
|---|-------------------------------|---------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 22 conducted(9k-12.75G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 100 KHz VBW: 300 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band V | | |
| Note: | | |

| No. | Mk. | Freq. MHz | Reading Level dBm | Correct Factor dB | Measure- ment dBm | Limit dBm | Over dB | Detector | Antenna Height cm | Table Degree | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|----------|-------------------------|-----------------|---------|
| 1 | | 35.3350 | -63.44 | 16.61 | -46.83 | -13.00 | -33.83 | peak | | | |
| 2 | * | 824.9150 | -3.44 | 3.84 | 0.40 | -13.00 | 13.40 | peak | | | Tx |

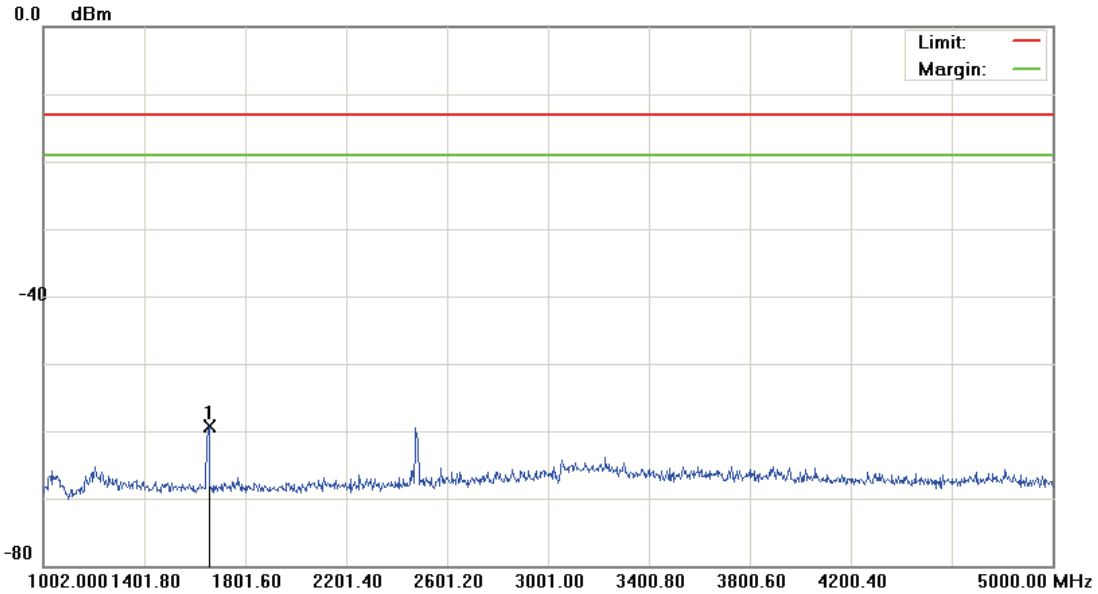
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH4132)

Data :#4

Date: 2015/6/10

Time: 下午 04:41:27



| | | |
|---|-------------------------------|-----------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 22 conducted(9k-12.75G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1000 KHz VBW: 3000 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band V | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 1656.000 | -63.81 | 4.45 | -59.36 | -13.00 | -46.36 | peak | | |

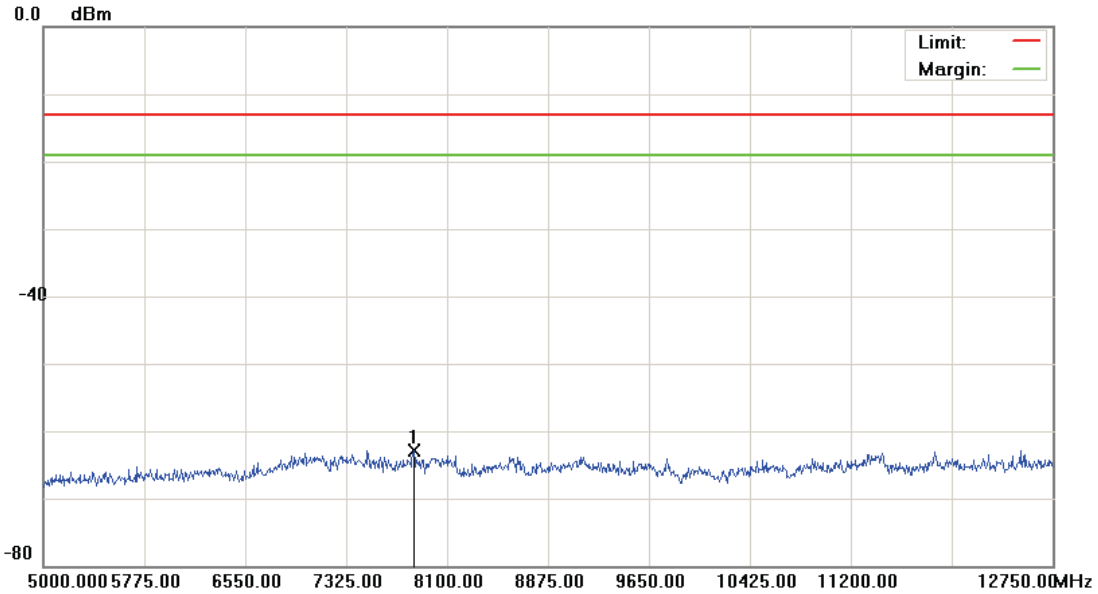
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH4132)

Data :#5

Date: 2015/6/10

Time: 下午 04:41:50



| | | |
|---|-------------------------------|-----------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 22 conducted(9k-12.75G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1000 KHz VBW: 3000 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band V | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | Detector | cm | degree |
| 1 | * | 7844.250 | -68.45 | 5.61 | -62.84 | -13.00 | -49.84 | peak | | Comment |

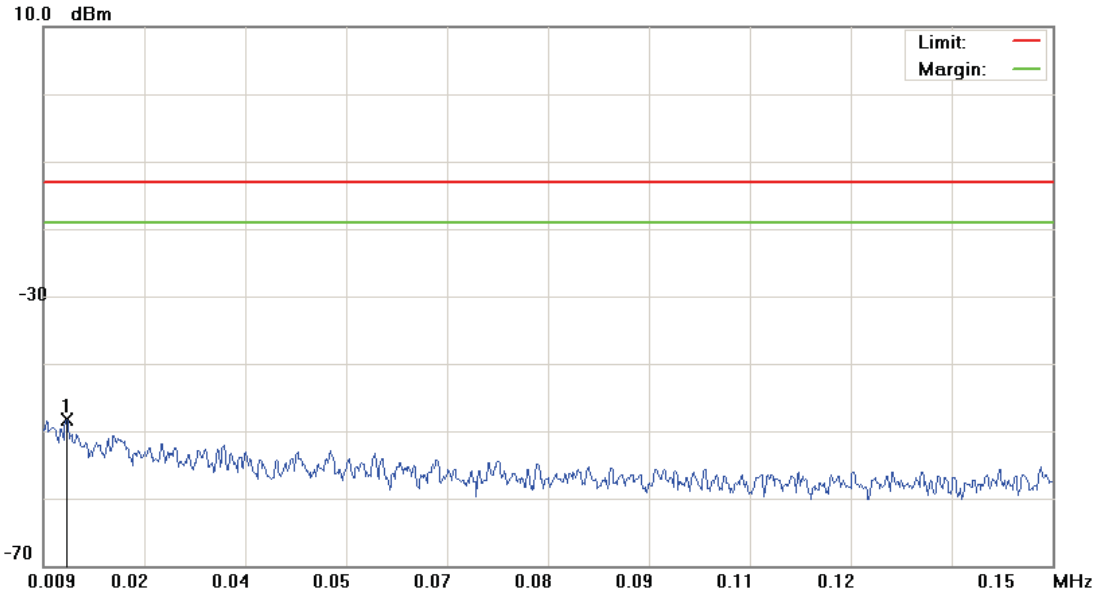
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH4183)

Data :#1

Date: 2015/6/10

Time: 下午 04:20:02



| | | |
|---|-------------------------------|-----------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 22 conducted(9k-12.75G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1 KHz VBW: 3 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band V | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 0.0122 | -78.86 | 30.57 | -48.29 | -13.00 | -35.29 | peak | | |

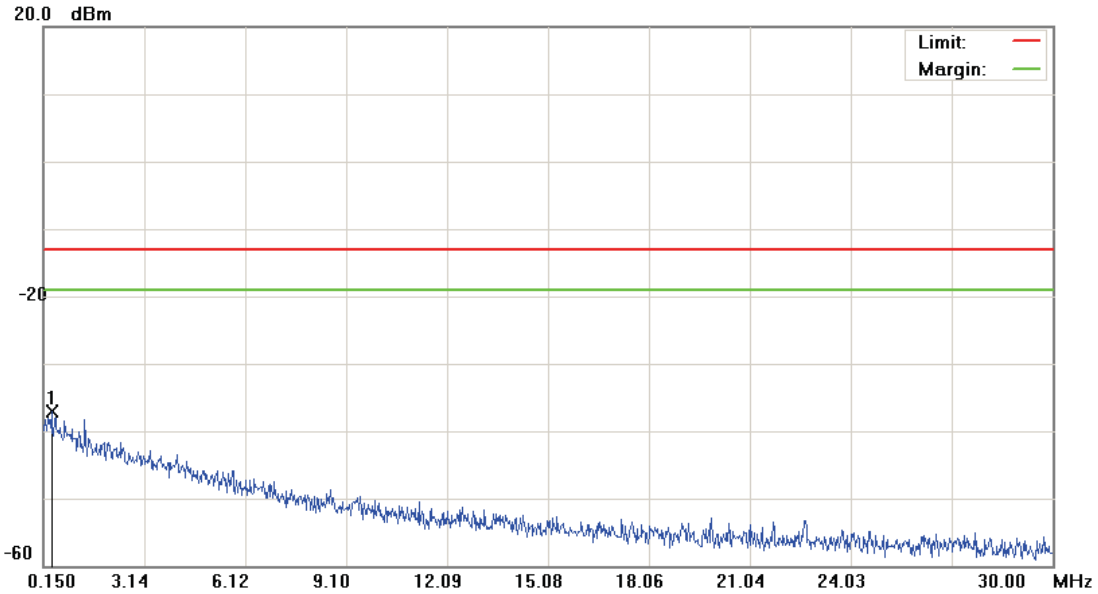
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH4183)

Data :#2

Date: 2015/6/10

Time: 下午 04:20:27



| | | |
|---|-------------------------------|-------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 22 conducted(9k-12.75G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 10 KHz VBW: 30 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band V | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 0.4037 | -69.09 | 31.91 | -37.18 | -13.00 | -24.18 | peak | | |

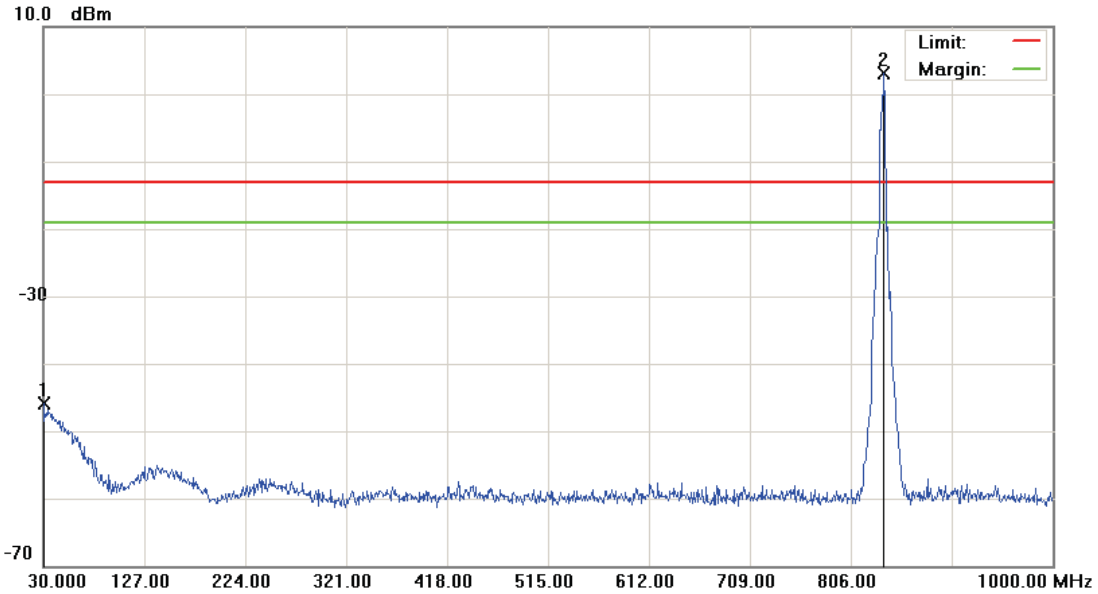
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH4183)

Data :#3

Date: 2015/6/10

Time: 下午 04:20:51



| | | |
|---|-------------------------------|---------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 22 conducted(9k-12.75G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 100 KHz VBW: 300 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band V | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | | 30.0000 | -63.06 | 17.21 | -45.85 | -13.00 | -32.85 | peak | | |
| 2 | * | 838.0100 | -0.93 | 3.97 | 3.04 | -13.00 | 16.04 | peak | | Tx |

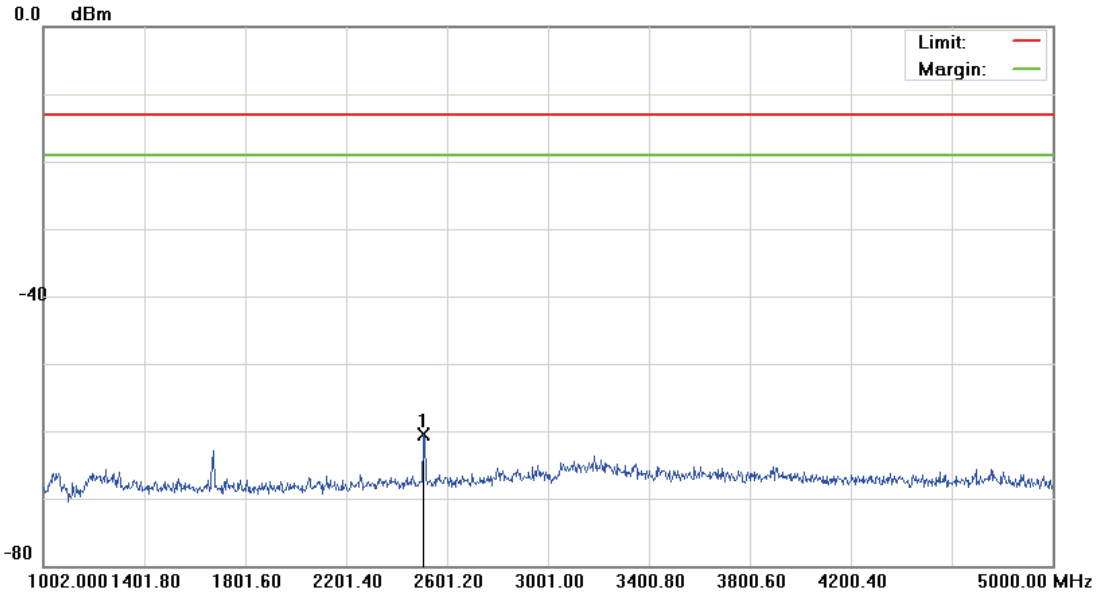
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH4183)

Data :#4

Date: 2015/6/10

Time: 下午 04:42:27



| | | |
|---|-------------------------------|-----------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 22 conducted(9k-12.75G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1000 KHz VBW: 3000 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band V | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 2508.000 | -64.84 | 4.36 | -60.48 | -13.00 | -47.48 | peak | | |

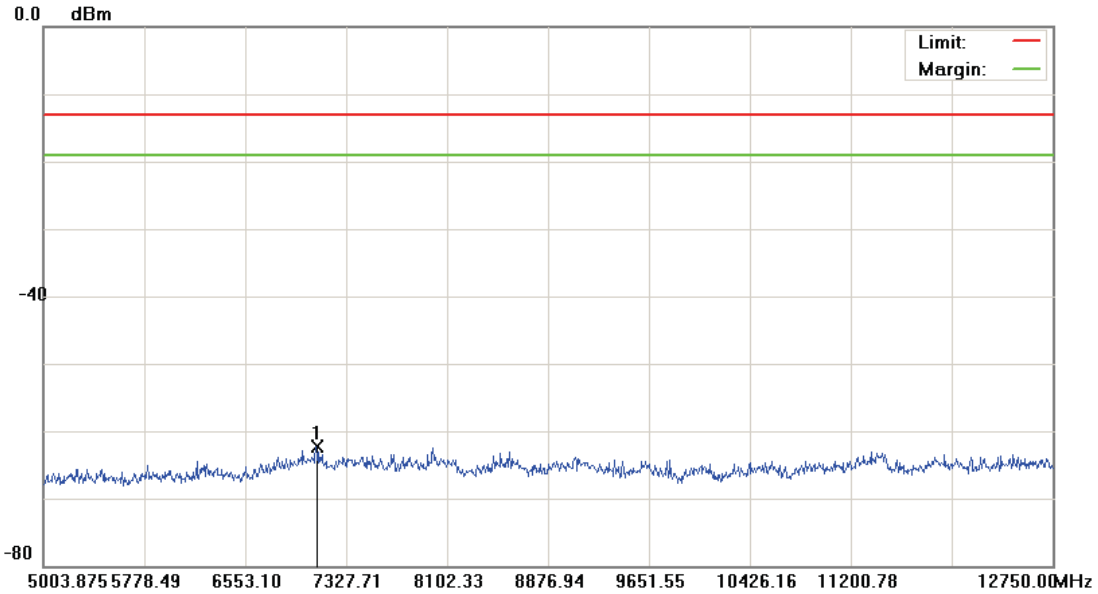
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH4183)

Data :#5

Date: 2015/6/10

Time: 下午 04:42:50



| | | |
|---|-------------------------------|-----------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 22 conducted(9k-12.75G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1000 KHz VBW: 3000 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band V | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 7096.375 | -67.40 | 5.07 | -62.33 | -13.00 | -49.33 | peak | | |

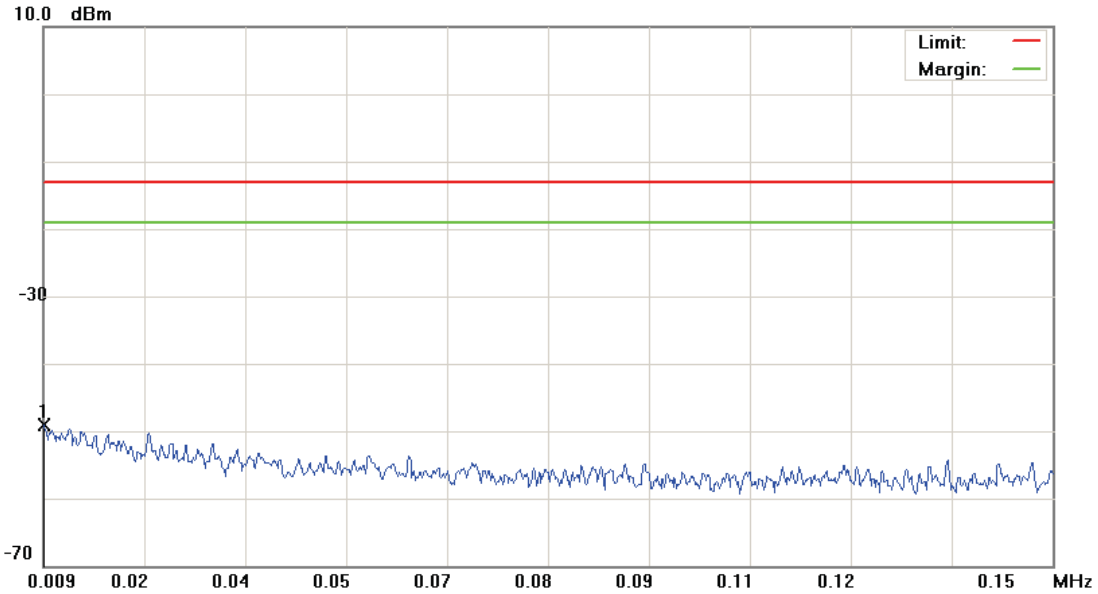
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH4233)

Data :#1

Date: 2015/6/10

Time: 下午 04:22:46



| | | |
|---|-------------------------------|-----------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 22 conducted(9k-12.75G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1 KHz VBW: 3 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band V | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 0.0090 | -79.61 | 30.58 | -49.03 | -13.00 | -36.03 | peak | | |

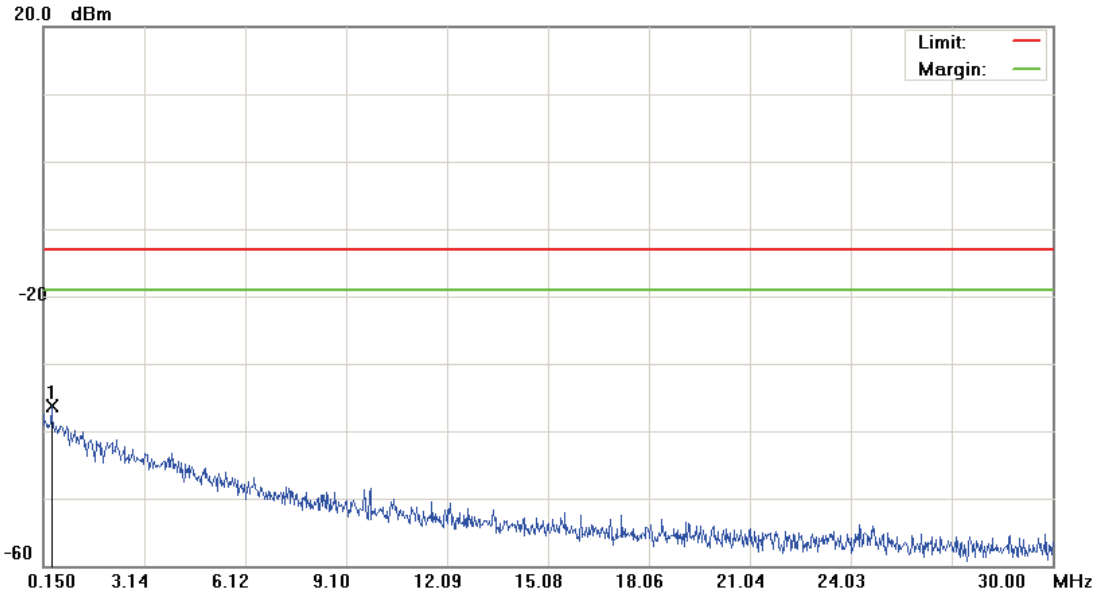
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH4233)

Data :#2

Date: 2015/6/10

Time: 下午 04:23:10



| | | |
|---|-------------------------------|-------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 22 conducted(9k-12.75G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 10 KHz VBW: 30 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band V | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|--------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 0.4037 | -68.28 | 31.91 | -36.37 | -13.00 | -23.37 | peak | | |

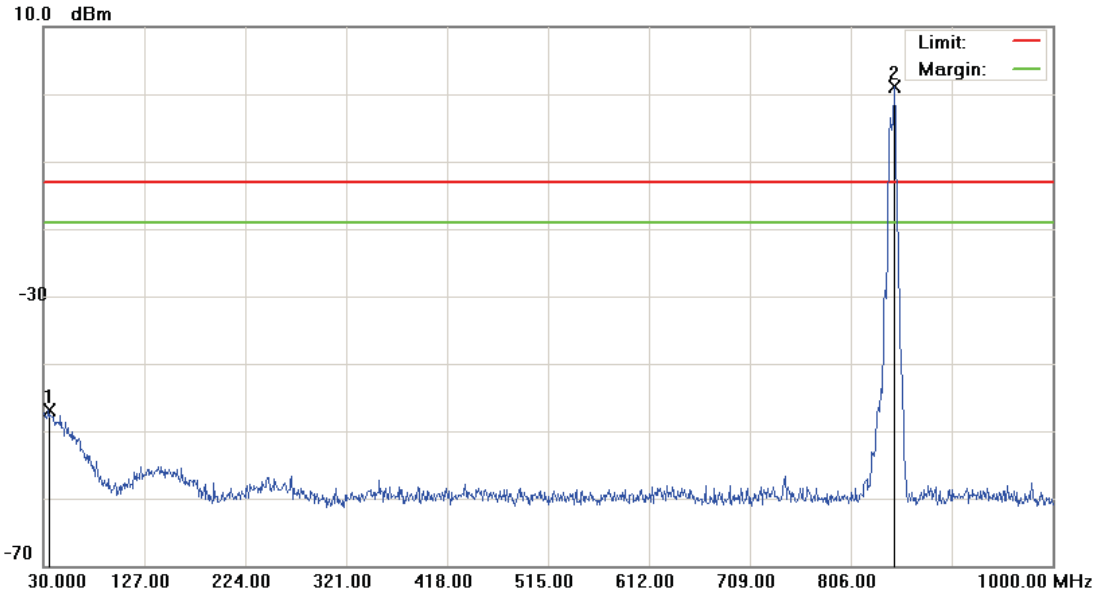
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH4233)

Data :#3

Date: 2015/6/10

Time: 下午 04:23:34



| | | |
|---|-------------------------------|---------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 22 conducted(9k-12.75G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 100 KHz VBW: 300 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band V | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | | 35.3350 | -63.44 | 16.61 | -46.83 | -13.00 | -33.83 | | | peak |
| 2 | * | 847.7100 | -2.84 | 3.98 | 1.14 | -13.00 | 14.14 | | | peak Tx |

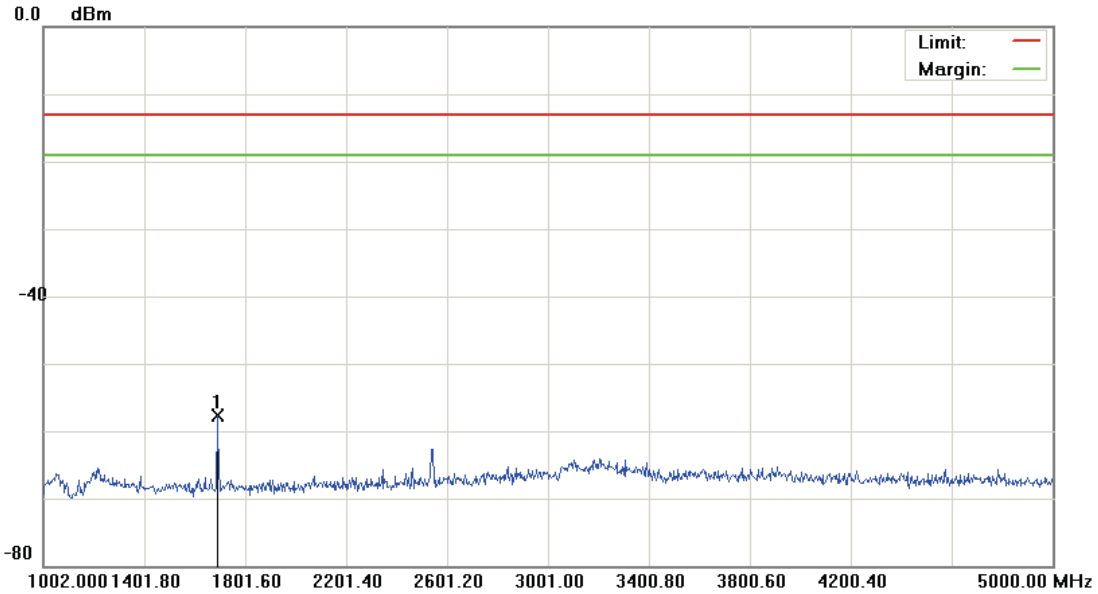
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH4233)

Data :#4

Date: 2015/6/10

Time: 下午 04:43:27



| | | |
|---|-------------------------------|-----------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 22 conducted(9k-12.75G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1000 KHz VBW: 3000 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band V | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 1690.000 | -62.27 | 4.47 | -57.80 | -13.00 | -44.80 | peak | | |

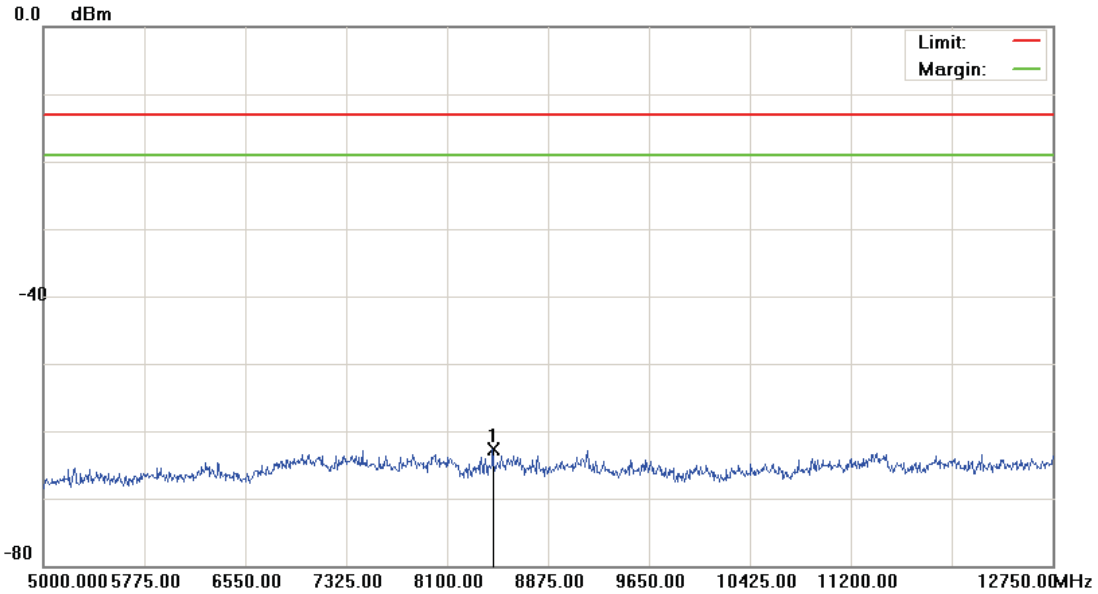
*:Maximum data x:Over limit !:over margin

File :LE910 NA V2(CH4233)

Data :#5

Date: 2015/6/10

Time: 下午 04:43:50



| | | |
|---|-------------------------------|-----------------------------|
| Site: site #1 | Polarization: Conducted Power | Temperature: 26 °C |
| Limit: FCC Part 22 conducted(9k-12.75G) | Power: DC 3.8V | Humidity: 55 % |
| EUT: LE910-NA V2 | Distance: | RBW: 1000 KHz VBW: 3000 KHz |
| M/N: LE910-NA V2 | | |
| Mode: WCDMA Band V | | |
| Note: | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Antenna Height | Table Degree | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
| | | MHz | dBm | dB | dBm | dBm | dB | cm | degree | Comment |
| 1 | * | 8452.625 | -68.13 | 5.49 | -62.64 | -13.00 | -49.64 | peak | | |

*:Maximum data x:Over limit !:over margin

| | | | |
|--------------|--------------------|-----------|------|
| Model Number | LE910-NA V2 | | |
| Test Item | Radiation Emission | | |
| Test Mode | Mode 1 / Mode 2 | | |
| Date of Test | 06/18/2015 | Test Site | TE05 |

| Band | CH | Frequency (MHz) | Measurement (dBm) | Antanna Gain (dBi) | EIRP (dBm) | ERP (dBm) | Limit (dBm) | Over (dB) |
|---------------|------|-----------------|-------------------|--------------------|------------|-----------|-------------|-----------|
| WCDMA Band II | 9262 | 0.0114 | -58.12 | 2.14 | -55.98 | -58.13 | -13.00 | -45.13 |
| | | 0.1500 | -55.01 | 2.14 | -52.87 | -55.02 | -13.00 | -42.02 |
| | | 455.8300 | -47.47 | 2.14 | -45.33 | -47.48 | -13.00 | -34.48 |
| | | 2763.1000 | -44.52 | 2.14 | -42.38 | | -13.00 | -29.38 |
| | | 3695.5000 | -48.15 | 2.14 | -46.01 | | -13.00 | -33.01 |
| | | 19873.1250 | -55.61 | 2.14 | -53.47 | | -13.00 | -40.47 |
| | 9400 | 0.0097 | -57.76 | 2.14 | -55.62 | -57.77 | -13.00 | -44.77 |
| | | 0.1948 | -56.45 | 2.14 | -54.31 | -56.46 | -13.00 | -43.46 |
| | | 890.3900 | -47.85 | 2.14 | -45.71 | -47.86 | -13.00 | -34.86 |
| | | 2792.8000 | -43.94 | 2.14 | -41.80 | | -13.00 | -28.80 |
| | | 5635.7500 | -52.66 | 2.14 | -50.52 | | -13.00 | -37.52 |
| | | 19075.6250 | -55.72 | 2.14 | -53.58 | | -13.00 | -40.58 |
| | 9538 | 0.0107 | -57.40 | 2.14 | -55.26 | -57.41 | -13.00 | -44.41 |
| | | 0.1798 | -56.38 | 2.14 | -54.24 | -56.39 | -13.00 | -43.39 |
| | | 630.9150 | -48.16 | 2.14 | -46.02 | -48.17 | -13.00 | -35.17 |
| | | 2773.0000 | -44.61 | 2.14 | -42.47 | | -13.00 | -29.47 |
| | | 3819.8750 | -50.53 | 2.14 | -48.39 | | -13.00 | -35.39 |
| | | 19311.2500 | -55.65 | 2.14 | -53.51 | | -13.00 | -40.51 |

| Band | CH | Frequency (MHz) | Measurement (dBm) | Antanna Gain (dBi) | EIRP (dBm) | ERP (dBm) | Limit (dBm) | Over (dB) |
|--------------|------|-----------------|-------------------|--------------------|------------|-----------|-------------|-----------|
| WCDMA Band V | 4132 | 0.0095 | -48.78 | 2.14 | -46.64 | -48.79 | -13.00 | -35.79 |
| | | 0.2993 | -37.30 | 2.14 | -35.16 | -37.31 | -13.00 | -24.31 |
| | | 35.3350 | -46.83 | 2.14 | -44.69 | -46.84 | -13.00 | -33.84 |
| | | 1656.0000 | -59.36 | 2.14 | -57.22 | | -13.00 | -44.22 |
| | | 7844.2500 | -62.84 | 2.14 | -60.70 | | -13.00 | -47.70 |
| | 4183 | 0.0122 | -48.29 | 2.14 | -46.15 | -48.30 | -13.00 | -35.30 |
| | | 0.4037 | -37.18 | 2.14 | -35.04 | -37.19 | -13.00 | -24.19 |
| | | 30.0000 | -45.85 | 2.14 | -43.71 | -45.86 | -13.00 | -32.86 |
| | | 2508.0000 | -60.48 | 2.14 | -58.34 | | -13.00 | -45.34 |
| | | 7096.3750 | -62.33 | 2.14 | -60.19 | | -13.00 | -47.19 |
| | 4233 | 0.0090 | -49.03 | 2.14 | -46.89 | -49.04 | -13.00 | -36.04 |
| | | 0.4037 | -36.37 | 2.14 | -34.23 | -36.38 | -13.00 | -23.38 |
| | | 35.3350 | -46.83 | 2.14 | -44.69 | -46.84 | -13.00 | -33.84 |
| | | 1690.0000 | -57.80 | 2.14 | -55.66 | | -13.00 | -42.66 |
| | | 8452.6250 | -62.64 | 2.14 | -60.50 | | -13.00 | -47.50 |

8 Field Strength of Spurious Radiation Test

8.1. Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

8.2. Test Instruments

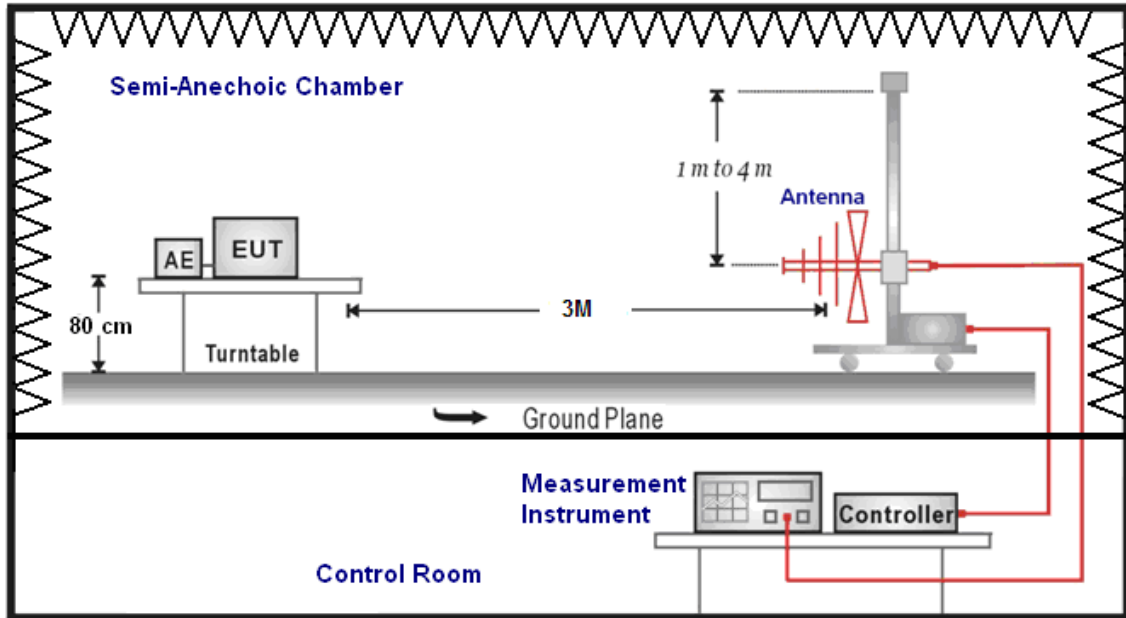
| 3 Meter Chamber | | | | | |
|-----------------------------------|--------------------------------|--------------|---------------|------------|--------|
| Equipment | Manufacturer | Model Number | Serial Number | Cal. Date | Remark |
| RF Pre-selector | Agilent | N9039A | MY46520256 | 01/06/2015 | (1) |
| Spectrum Analyzer | Agilent | E4446A | MY46180578 | 01/06/2015 | (1) |
| Pre Amplifier | Agilent | 8449B | 3008A02237 | 02/24/2015 | (1) |
| Pre Amplifier | Agilent | 8447D | 2944A10961 | 02/24/2015 | (1) |
| Broadband Antenna (30MHz~1GHz) | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | 9163-270 | 07/22/2014 | (1) |
| Horn Antenna (1~18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA9120D | 9120D-550 | 06/12/2015 | (1) |
| Horn Antenna (18~40GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA9170 | 9170-320 | 07/02/2014 | (1) |
| Test Site | ATL | TE01 | 888001 | 08/28/2014 | (1) |

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

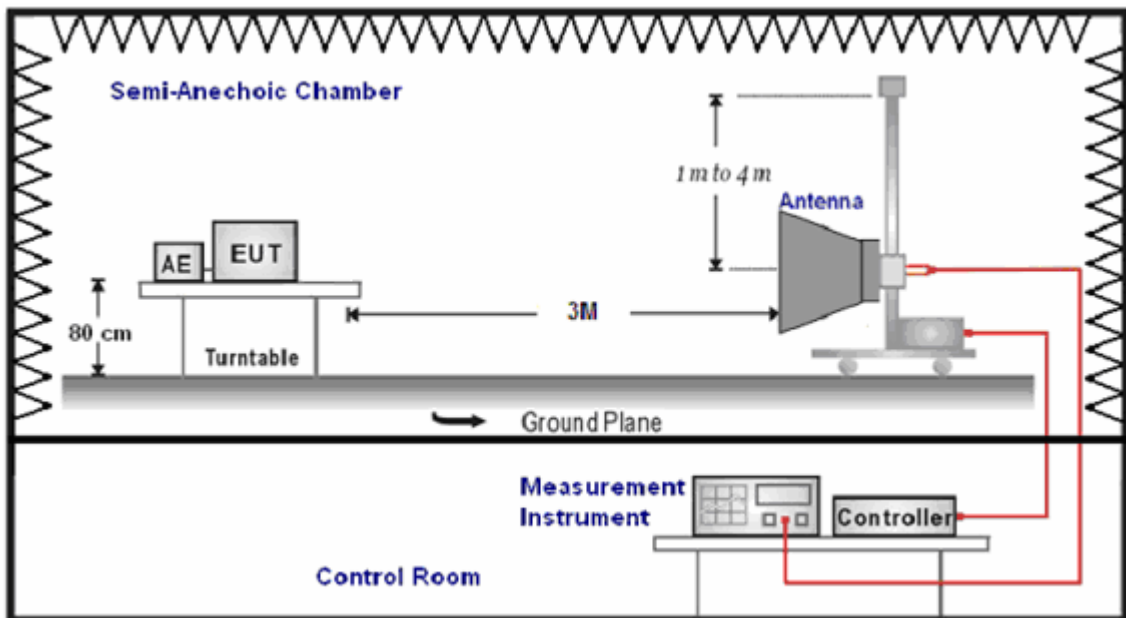
Note: N.C.R. = No Calibration Request.

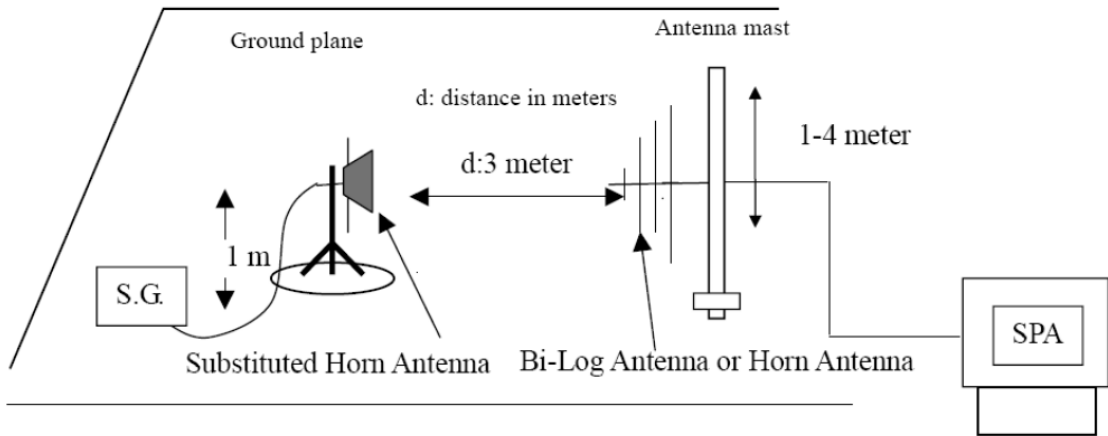
8.3. Setup

Below 1GHz



Above 1GHz





8.4. Test Procedure

- a. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RWB and VBW is 1MHz for LTE and WCDMA mode.
- b. Radiation Emission measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- d. E.I.R.P. = Output power level of S.G - TX cable loss + Antenna gain of substitution horn
- e. E.R.P. = E.I.R.P- 2.15 dB

8.5. Uncertainty

The measurement uncertainty is defined as for Field Strength of Spurious Radiation measurement is ± 3.072 dB.

8.6. Test Result

| | | | |
|---------------|-------------------|----------------------|--------------|
| Standard: | FCC Part 24 | Test Distance: | 3m |
| Test item: | Radiated Emission | Power: | DC 3.8V |
| Model Number: | LE910-NA V2 | Temp.(°C)/Hum.(%RH): | 26(°C)/60%RH |
| Mode: | 1 | Date: | 06/18/2015 |
| Frequency: | 1852.4 MHz | Test By: | Eric Ou Yang |

| Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark | Ant.Polar. H / V |
|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|------------------|
| 4204.000 | -72.19 | 21.26 | -50.93 | -13.00 | -37.93 | peak | H |
| 4132.000 | -71.57 | 21.03 | -50.54 | -13.00 | -37.54 | peak | V |

| | | | |
|---------------|-------------------|----------------------|--------------|
| Standard: | FCC Part 24 | Test Distance: | 3m |
| Test item: | Radiated Emission | Power: | DC 3.8V |
| Model Number: | LE910-NA V2 | Temp.(°C)/Hum.(%RH): | 26(°C)/60%RH |
| Mode: | 1 | Date: | 06/18/2015 |
| Frequency: | 1880.0 MHz | Test By: | Eric Ou Yang |

| Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark | Ant.Polar. H / V |
|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|------------------|
| 4960.000 | -72.78 | 22.93 | -49.85 | -13.00 | -36.85 | peak | H |
| 3256.000 | -69.90 | 19.42 | -50.48 | -13.00 | -37.48 | peak | V |

| | | | |
|---------------|-------------------|----------------------|--------------|
| Standard: | FCC Part 24 | Test Distance: | 3m |
| Test item: | Radiated Emission | Power: | DC 3.8V |
| Model Number: | LE910-NA V2 | Temp.(°C)/Hum.(%RH): | 26(°C)/60%RH |
| Mode: | 1 | Date: | 06/18/2015 |
| Frequency: | 1907.6 MHz | Test By: | Eric Ou Yang |

| Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark | Ant.Polar. H / V |
|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|------------------|
| 4192.000 | -72.00 | 21.22 | -50.78 | -13.00 | -37.78 | peak | H |
| 6676.000 | -72.41 | 24.87 | -47.54 | -13.00 | -34.54 | peak | V |

| | | | |
|---------------|-------------------|----------------------|--------------|
| Standard: | FCC Part 22 | Test Distance: | 3m |
| Test item: | Radiated Emission | Power: | DC 3.8V |
| Model Number: | LE910-NA V2 | Temp.(°C)/Hum.(%RH): | 26(°C)/60%RH |
| Mode: | 2 | Date: | 06/18/2015 |
| Frequency: | 826.4 MHz | Test By: | Eric Ou Yang |

| Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark | Ant.Polar. H / V |
|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|------------------|
| 5668.000 | -74.05 | 24.02 | -50.03 | -13.00 | -37.03 | peak | H |
| 4756.000 | -73.06 | 22.59 | -50.47 | -13.00 | -37.47 | peak | V |

| | | | |
|---------------|-------------------|----------------------|--------------|
| Standard: | FCC Part 22 | Test Distance: | 3m |
| Test item: | Radiated Emission | Power: | DC 3.8V |
| Model Number: | LE910-NA V2 | Temp.(°C)/Hum.(%RH): | 26(°C)/60%RH |
| Mode: | 2 | Date: | 06/18/2015 |
| Frequency: | 836.6 MHz | Test By: | Eric Ou Yang |

| Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark | Ant.Polar. H / V |
|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|------------------|
| 6424.000 | -73.73 | 24.66 | -49.07 | -13.00 | -36.07 | peak | H |
| 4060.000 | -71.83 | 20.81 | -51.02 | -13.00 | -38.02 | peak | V |

| | | | |
|---------------|-------------------|----------------------|--------------|
| Standard: | FCC Part 22 | Test Distance: | 3m |
| Test item: | Radiated Emission | Power: | DC 3.8V |
| Model Number: | LE910-NA V2 | Temp.(°C)/Hum.(%RH): | 26(°C)/60%RH |
| Mode: | 2 | Date: | 06/18/2015 |
| Frequency: | 846.6 MHz | Test By: | Eric Ou Yang |

| Frequency (MHz) | Reading (dBm) | Correct Factor (dB) | Result (dBm) | Limit (dBm) | Margin (dB) | Remark | Ant.Polar. H / V |
|-----------------|---------------|---------------------|--------------|-------------|-------------|--------|------------------|
| 3628.000 | -72.17 | 20.46 | -51.71 | -13.00 | -38.71 | peak | H |
| 6904.000 | -73.73 | 25.15 | -48.58 | -13.00 | -35.58 | peak | V |

9 Frequency Stability (Temperature & Voltage Variation) Test

9.1. Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

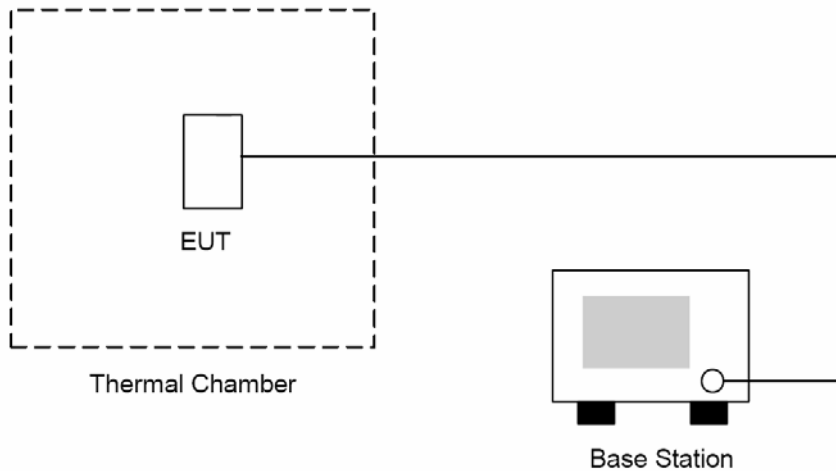
9.2. Test Instruments

| Equipment | Manufacturer | Model Number | Serial Number | Cal. Date | Remark |
|--------------------------------------|--------------|--------------|---------------|------------|--------|
| Universal Radio Communication Tester | R & S | CMU200 | 109369 | 10/21/2014 | (2) |
| Temperature & Humidity Chamber | TAICHY | MHU-225LA | 980729 | 04/27/2015 | (1) |
| Test Site | ATL | TE05 | TE05 | N.C.R. | ----- |

Remark: ⁽¹⁾ Calibration period 1 year. ⁽²⁾ Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

9.3. Setup



9.4. Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to -30°C and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was note within one minute.
3. With power OFF, the temperature was raised in 10°C steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected as the following section.
5. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
6. The temperature tests were performed for the worst case.
7. Test data was recorded.

9.5. Uncertainty

The measurement uncertainty is defined as for Frequency Stability (Temperature Variation) measurement is $\pm 10\text{Hz}$.

9.6. Test Result

| Model Number | LE910-NA V2 | | | | | |
|-----------------------|---|------------------|----------------|-----------------|-------------|--------|
| Test Item | Frequency Stability (Temperature & Voltage Variation) | | | | | |
| Test Mode | Mode 1 | | | | | |
| Date of Test | 06/16/2015 | | | | Test Site | TE05 |
| Level | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Result |
| Normal | 3.80 | -10 | 5.31 | 0.006 | ±2.5 | Pass |
| Normal | 3.80 | 0 | 12.92 | 0.015 | ±2.5 | Pass |
| Normal | 3.80 | 10 | -13.64 | -0.016 | ±2.5 | Pass |
| Battery full point | 4.20 | 20 | -5.99 | -0.007 | ±2.5 | Pass |
| Normal | 3.80 | 20 | 2.76 | 0.003 | ±2.5 | Pass |
| Battery cut-off point | 3.40 | 20 | 12.7 | 0.015 | ±2.5 | Pass |
| Normal | 3.80 | 30 | 4.35 | 0.005 | ±2.5 | Pass |
| Normal | 3.80 | 40 | -5.42 | -0.006 | ±2.5 | Pass |
| Normal | 3.80 | 50 | -2.86 | -0.003 | ±2.5 | Pass |
| Normal | 3.80 | 55 | 2.69 | 0.003 | ±2.5 | Pass |

| Model Number | LE910-NA V2 | | | | | |
|-----------------------|---|------------------|----------------|-----------------|-------------|--------|
| Test Item | Frequency Stability (Temperature & Voltage Variation) | | | | | |
| Test Mode | Mode 2 | | | | | |
| Date of Test | 06/16/2015 | | | | Test Site | TE05 |
| Level | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Result |
| Normal | 3.80 | -10 | 5.37 | 0.003 | ±2.5 | Pass |
| Normal | 3.80 | 0 | 11.05 | 0.006 | ±2.5 | Pass |
| Normal | 3.80 | 10 | -13.55 | -0.007 | ±2.5 | Pass |
| Battery full point | 4.20 | 20 | 3.98 | 0.002 | ±2.5 | Pass |
| Normal | 3.80 | 20 | 11.50 | 0.006 | ±2.5 | Pass |
| Battery cut-off point | 3.40 | 20 | -15.81 | -0.008 | ±2.5 | Pass |
| Normal | 3.80 | 30 | 6.64 | 0.004 | ±2.5 | Pass |
| Normal | 3.80 | 40 | 4.33 | 0.002 | ±2.5 | Pass |
| Normal | 3.80 | 50 | -2.54 | -0.001 | ±2.5 | Pass |
| Normal | 3.80 | 55 | 1.36 | 0.001 | ±2.5 | Pass |

Note: This device temperature only support -10°C to +55°C.