

FCC Test Report

Report No.: RF141215C02B

FCC ID: 2AHH8ENTRWRT00

Test Model: ENTR Touchpad Reader

Received Date: Sep. 14, 2016

Test Date: Sep. 21 ~ Oct. 03, 2016

Issued Date: Oct. 11, 2016

Applicant: Mul-T-Lock Technologies LTD

Address: Mul-T-Lock Park P.O.B 637, Yavne 8110601, Israel

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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Table of Contents

| | |
|--|-----------|
| Release Control Record | 4 |
| 1 Certificate of Conformity | 5 |
| 2 Summary of Test Results | 6 |
| 2.1 Measurement Uncertainty | 6 |
| 2.2 Modification Record | 6 |
| 3 General Information | 7 |
| 3.1 General Description of EUT | 7 |
| 3.2 Description of Test Modes | 7 |
| 3.2.1 Test Mode Applicability and Tested Channel Detail | 8 |
| 3.3 Duty Cycle of Test Signal | 9 |
| 3.4 Description of Support Units | 9 |
| 3.4.1 Configuration of System under Test | 9 |
| 3.5 General Description of Applied Standards | 9 |
| 4 Test Types and Results | 10 |
| 4.1 Radiated Emission and Bandedge Measurement | 10 |
| 4.1.1 Limits of Radiated Emission and Bandedge Measurement | 10 |
| 4.1.2 Test Instruments | 11 |
| 4.1.3 Test Procedures | 12 |
| 4.1.4 Deviation from Test Standard | 12 |
| 4.1.5 Test Set Up | 13 |
| 4.1.6 EUT Operating Conditions | 14 |
| 4.1.7 Test Results | 15 |
| 4.2 6dB Bandwidth Measurement | 17 |
| 4.2.1 Limits of 6dB Bandwidth Measurement | 17 |
| 4.2.2 Test Setup | 17 |
| 4.2.3 Test Instruments | 17 |
| 4.2.4 Test Procedure | 17 |
| 4.2.5 Deviation from Test Standard | 17 |
| 4.2.6 EUT Operating Conditions | 17 |
| 4.2.7 Test Result | 18 |
| 4.3 Conducted Output Power Measurement | 19 |
| 4.3.1 Limits of Conducted Output Power Measurement | 19 |
| 4.3.2 Test Setup | 19 |
| 4.3.3 Test Instruments | 19 |
| 4.3.4 Test Procedures | 19 |
| 4.3.5 Deviation from Test Standard | 19 |
| 4.3.6 EUT Operating Conditions | 19 |
| 4.3.7 Test Results | 19 |
| 4.4 Power Spectral Density Measurement | 20 |
| 4.4.1 Limits of Power Spectral Density Measurement | 20 |
| 4.4.2 Test Setup | 20 |
| 4.4.3 Test Instruments | 20 |
| 4.4.4 Test Procedure | 20 |
| 4.4.5 Deviation from Test Standard | 20 |
| 4.4.6 EUT Operating Condition | 20 |
| 4.4.7 Test Results | 21 |
| 4.5 Conducted Out of Band Emission Measurement | 22 |
| 4.5.1 Limits of Conducted Out of Band Emission Measurement | 22 |
| 4.5.2 Test Setup | 22 |
| 4.5.3 Test Instruments | 22 |
| 4.5.4 Test Procedure | 22 |
| 4.5.5 Deviation from Test Standard | 22 |
| 4.5.6 EUT Operating Condition | 22 |

| | |
|---|-----------|
| 4.5.7 Test Results | 22 |
| 5 Pictures of Test Arrangements..... | 24 |
| Appendix – Information on the Testing Laboratories | 25 |

Release Control Record

| Issue No. | Description | Date Issued |
|--------------|-------------------|---------------|
| RF141215C02B | Original release. | Oct. 11, 2016 |

1 Certificate of Conformity

Product: ENTR Touchpad Reader
Test Model: ENTR Touchpad Reader
Sample Status: MASS-PRODUCTION
Applicant: Mul-T-Lock Technologies LTD
Test Date: Sep. 21 ~ Oct. 03, 2016
Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Sub Li, **Date:** Oct. 11, 2016
Suntee Liu / Specialist

Approved by : Ken Liu, **Date:** Oct. 11, 2016
Ken Liu / Senior Manager

2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart C (Section 15.247) | | | |
|--|--|--------|---|
| FCC Clause | Test Item | Result | Remarks |
| 15.207 | AC Power Conducted Emission | N/A | EUT is powered from DC |
| 15.205 / 15.209 / 15.247(d) | Radiated Emissions and Band Edge Measurement | Pass | Meet the requirement of limit. Minimum passing margin is -5.7dB at 2390.00MHz. |
| 15.247(d) | Antenna Port Emission | Pass | Meet the requirement of limit. |
| 15.247(a)(2) | 6dB bandwidth | Pass | Meet the requirement of limit. |
| 15.247(b) | Conducted power | Pass | Meet the requirement of limit. |
| 15.247(e) | Power Spectral Density | Pass | Meet the requirement of limit. |
| 15.203 | Antenna Requirement | Pass | No antenna connector is used. |

N/A: Not Applicable

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement | Frequency | Expanded Uncertainty (k=2) (±) |
|--------------------------------|-----------------|--------------------------------|
| Radiated Emissions up to 1 GHz | 30MHz ~ 200MHz | 3.63 dB |
| | 200MHz ~1000MHz | 3.64 dB |
| Radiated Emissions above 1 GHz | 1GHz ~ 18GHz | 2.29 dB |
| | 18GHz ~ 40GHz | 2.29 dB |

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

| | |
|---------------------|-----------------------------|
| Product | ENTR Touchpad Reader |
| Test Model | ENTR Touchpad Reader |
| Sample Status | MASS-PRODUCTION |
| Power Supply Rating | 3Vdc (battery) |
| Modulation Type | QPSK |
| Transfer Rate | 1Mbps |
| Operating Frequency | 2405MHz |
| Number of Channel | 1 |
| Output Power | 3.516mW |
| Antenna Type | Chip antenna with 2dBi gain |
| Antenna Connector | NA |
| Accessory Device | NA |
| Data Cable Supplied | NA |

3.2 Description of Test Modes

1 channel is provided for EUT:

| Channel | Frequency |
|---------|-----------|
| 1 | 2405MHz |

3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable to | | | | Description |
|--------------------|---------------|-------|-----|------|-------------|
| | RE \geq 1G | RE<1G | PLC | APCM | |
| - | √ | √ | - | √ | - |

Where RE \geq 1G: Radiated Emission above 1GHz & Bandedge Measurement
 RE<1G: Radiated Emission below 1GHz
 PLC: Power Line Conducted Emission
 APCM: Antenna Port Conducted Measurement

Note: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane.

Radiated Emission Test (Above 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Available Channel | Tested Channel | Modulation Type | Date Rate (Mbps) |
|--------------------|-------------------|----------------|-----------------|------------------|
| - | 1 | 1 | QPSK | 1.0 |

Radiated Emission Test (Below 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Available Channel | Tested Channel | Modulation Type | Date Rate (Mbps) |
|--------------------|-------------------|----------------|-----------------|------------------|
| - | 1 | 1 | QPSK | 1.0 |

Antenna Port Conducted Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

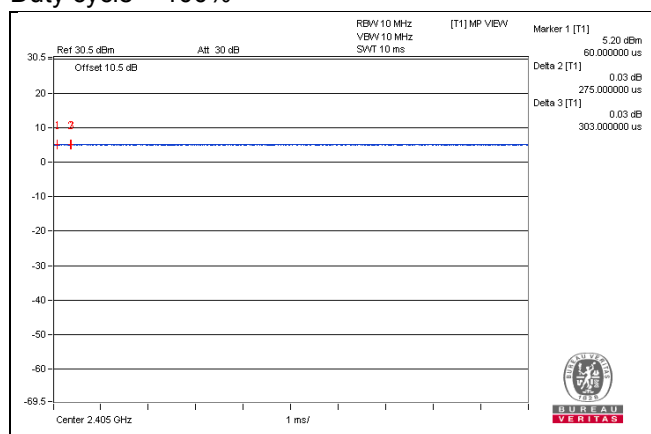
| EUT Configure Mode | Available Channel | Tested Channel | Modulation Type | Date Rate (Mbps) |
|--------------------|-------------------|----------------|-----------------|------------------|
| - | 1 | 1 | QPSK | 1.0 |

Test Condition:

| Applicable to | Environmental Conditions | Input Power | Tested by |
|---------------|--------------------------|-------------|------------|
| RE \geq 1G | 20 deg. C, 69% RH | 3Vdc | Bayu Chen |
| RE<1G | 25 deg. C, 69% RH | 3Vdc | Bond Tseng |
| APCM | 24 deg. C, 64% RH | 3Vdc | Match Tsui |

3.3 Duty Cycle of Test Signal

Duty cycle = 100%



3.4 Description of Support Units

The EUT has been tested as an independent unit.

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specification of the EUT declared by the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.247)
558074 D01 DTS Meas Guidance v03r05
 ANSI C63.10:2013

All test items have been performed and recorded as per the above standards.

Note: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC).
 The test report has been issued separately.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 |
| 1.705 ~ 30.0 | 30 | 30 |
| 30 ~ 88 | 100 | 3 |
| 88 ~ 216 | 150 | 3 |
| 216 ~ 960 | 200 | 3 |
| Above 960 | 500 | 3 |

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 Test Instruments

| Description & Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|--------------------------------------|------------------------------|----------------------------------|---------------|---------------|
| Test Receiver ROHDE & SCHWARZ | ESCS30 | 100289 | Dec. 23, 2015 | Dec. 22, 2016 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSP40 | 100269 | Apr. 19, 2016 | Apr. 18, 2017 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-148 | Jan. 18, 2016 | Jan. 17, 2017 |
| HORN Antenna SCHWARZBECK | BBHA 9120 D | 9120D-1169 | Jan. 08, 2016 | Jan. 07, 2017 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | BBHA9170241 | Jan. 18, 2016 | Jan. 17, 2017 |
| Loop Antenna | EM-6879 | 269 | Aug. 11, 2016 | Aug. 10, 2017 |
| Preamplifier Agilent | 8449B | 3008A01911 | Aug. 09, 2016 | Aug. 08, 2017 |
| Preamplifier Agilent | 8447D | 2944A10638 | Aug. 09, 2016 | Aug. 08, 2017 |
| RF signal cable HUBER+SUHNER | SUCOFLEX 104 | CABLE-CH9-02 (309222 +248780) | Aug. 09, 2016 | Aug. 08, 2017 |
| RF signal cable HUBER+SUHNER | SUCOFLEX 104 | CABLE-CH9-03 (274092) | Aug. 09, 2016 | Aug. 08, 2017 |
| RF signal cable Woken | 8D-FB | Cable-CH9-01 | Aug. 09, 2016 | Aug. 08, 2017 |
| Software BV ADT | ADT_Radiated_ V7.6.15.9.4 | NA | NA | NA |
| Antenna Tower EMCO | 2070/2080 | 512.835.4684 | NA | NA |
| Turn Table EMCO | 2087-2.03 | NA | NA | NA |
| Antenna Tower & Turn BV ADT | AT100 | AT93021705 | NA | NA |
| Turn Table BV ADT | TT100 | TT93021705 | NA | NA |
| Turn Table Controller BV ADT | SC100 | SC93021705 | NA | NA |
| High Speed Peak Power Meter | ML2495A | 0824012 | Aug. 11, 2016 | Aug. 10, 2017 |
| Power Sensor | MA2411B | 0738171 | Aug. 11, 2016 | Aug. 10, 2017 |

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 9.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 215374.
5. The IC Site Registration No. is IC 7450F-9.

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Both X and Y axes of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

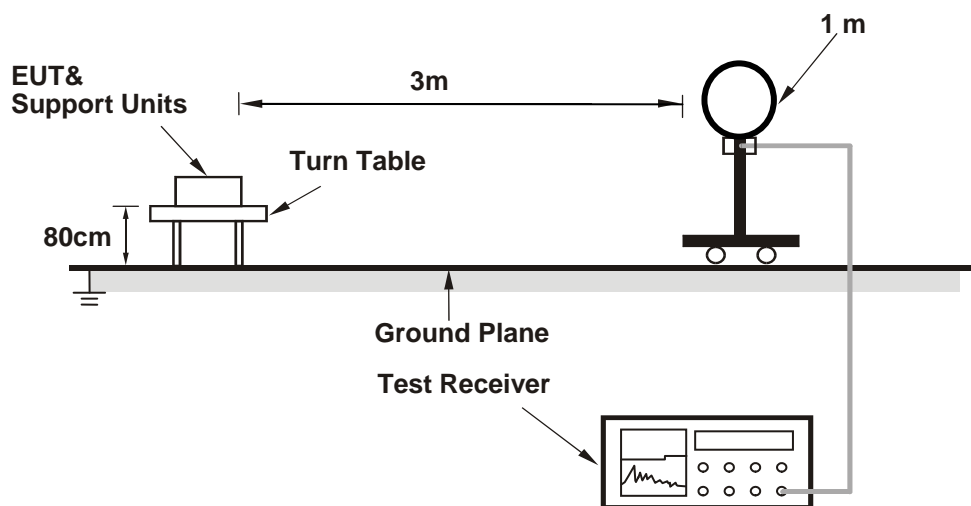
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

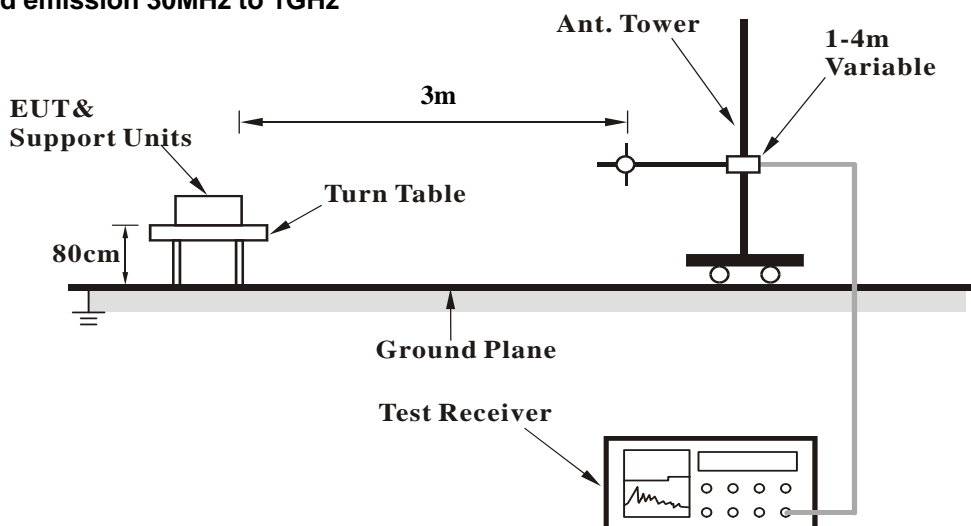
No deviation.

4.1.5 Test Set Up

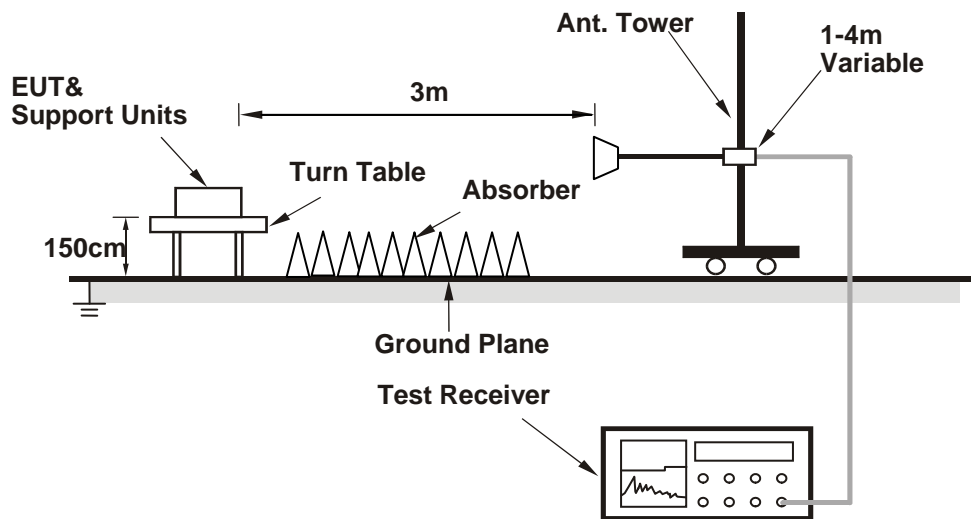
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

- a. Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1GHz Worst-Case Data:

| | | | |
|-----------------|--------------|----------|--------------|
| CHANNEL | TX Channel 1 | DETECTOR | Peak (PK) |
| FREQUENCY RANGE | 1GHz ~ 25GHz | FUNCTION | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|-----------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 60.9 PK | 74.0 | -13.1 | 3.93 H | 189 | 25.9 | 35.0 |
| 2 | 2390.00 | 48.3 AV | 54.0 | -5.7 | 3.93 H | 189 | 13.3 | 35.0 |
| 3 | *2405.00 | 98.9 PK | | | 3.93 H | 189 | 63.9 | 35.0 |
| 4 | *2405.00 | 92.8 AV | | | 3.93 H | 189 | 57.8 | 35.0 |
| 5 | 4810.00 | 51.5 PK | 74.0 | -22.5 | 2.28 H | 6 | 47.2 | 4.3 |
| 6 | 4810.00 | 38.4 AV | 54.0 | -15.6 | 2.28 H | 6 | 34.1 | 4.3 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 60.3 PK | 74.0 | -13.7 | 1.12 V | 150 | 25.3 | 35.0 |
| 2 | 2390.00 | 48.0 AV | 54.0 | -6.0 | 1.12 V | 150 | 13.0 | 35.0 |
| 3 | *2405.00 | 95.0 PK | | | 1.12 V | 150 | 60.0 | 35.0 |
| 4 | *2405.00 | 88.7 AV | | | 1.12 V | 150 | 53.7 | 35.0 |
| 5 | 4810.00 | 50.2 PK | 74.0 | -23.8 | 1.69 V | 246 | 45.9 | 4.3 |
| 6 | 4810.00 | 36.2 AV | 54.0 | -17.8 | 1.69 V | 246 | 31.9 | 4.3 |

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * “: Fundamental frequency.

Below 1GHz Worst-Case Data:

| | | | |
|-----------------|--------------|-------------------|-----------------|
| CHANNEL | TX Channel 1 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 30.00 | 25.4 QP | 40.0 | -14.6 | 1.00 H | 231 | 41.0 | -15.6 |
| 2 | 59.10 | 21.3 QP | 40.0 | -18.7 | 1.00 H | 126 | 35.6 | -14.3 |
| 3 | 125.06 | 19.4 QP | 43.5 | -24.1 | 1.00 H | 221 | 35.0 | -15.6 |
| 4 | 134.76 | 20.6 QP | 43.5 | -22.9 | 1.00 H | 71 | 35.0 | -14.4 |
| 5 | 152.22 | 22.3 QP | 43.5 | -21.2 | 1.00 H | 295 | 35.7 | -13.4 |
| 6 | 935.98 | 39.6 QP | 46.0 | -6.4 | 1.00 H | 156 | 35.9 | 3.7 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 31.94 | 31.4 QP | 40.0 | -8.6 | 1.00 V | 312 | 47.3 | -15.9 |
| 2 | 53.28 | 23.1 QP | 40.0 | -16.9 | 1.00 V | 86 | 37.0 | -13.9 |
| 3 | 134.76 | 21.4 QP | 43.5 | -22.1 | 1.00 V | 359 | 35.8 | -14.4 |
| 4 | 152.22 | 24.8 QP | 43.5 | -18.7 | 1.00 V | 206 | 38.2 | -13.4 |
| 5 | 612.00 | 29.6 QP | 46.0 | -16.4 | 1.00 V | 39 | 32.9 | -3.3 |
| 6 | 935.98 | 39.4 QP | 46.0 | -6.6 | 1.00 V | 322 | 35.7 | 3.7 |

REMARKS:

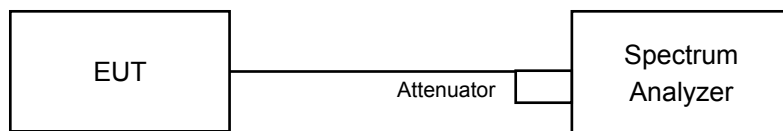
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

4.2 6dB Bandwidth Measurement

4.2.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.2.2 Test Setup



4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 Test Procedure

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.2.5 Deviation from Test Standard

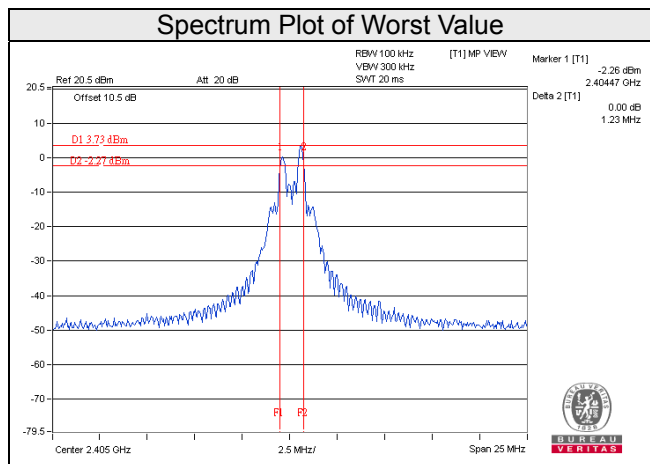
No deviation.

4.2.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.2.7 Test Result

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
| 1 | 2405 | 1.23 | 0.5 | Pass |

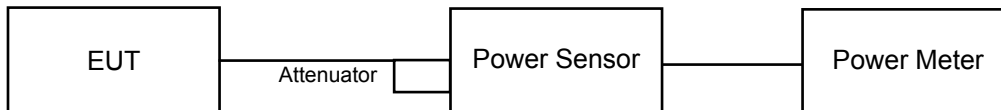


4.3 Conducted Output Power Measurement

4.3.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400-2483.5 MHz bands: 1 Watt (30dBm)

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

Same as item 4.3.6.

4.3.7 Test Results

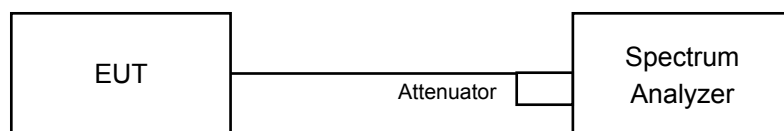
| Channel | Frequency (MHz) | Peak Power (mW) | Peak Power (dBm) | Limit (dBm) | Pass / Fail |
|---------|-----------------|-----------------|------------------|-------------|-------------|
| 1 | 2405 | 3.516 | 5.46 | 30 | Pass |

4.4 Power Spectral Density Measurement

4.4.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm.

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedure

For Peak power

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

4.4.5 Deviation from Test Standard

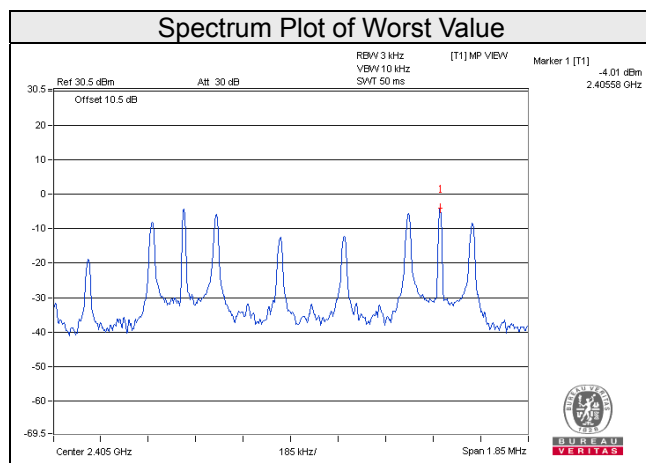
No deviation.

4.4.6 EUT Operating Condition

Same as item 4.3.6.

4.4.7 Test Results

| Channel | Freq. (MHz) | PSD (dBm) | Limit (dBm) | Pass / Fail |
|---------|-------------|-----------|-------------|-------------|
| 1 | 2405 | -4.01 | 8 | Pass |

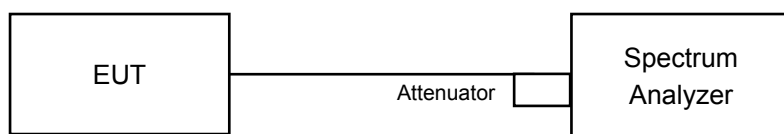


4.5 Conducted Out of Band Emission Measurement

4.5.1 Limits of Conducted Out of Band Emission Measurement

Below 20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW \geq 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW \geq 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

4.5.5 Deviation from Test Standard

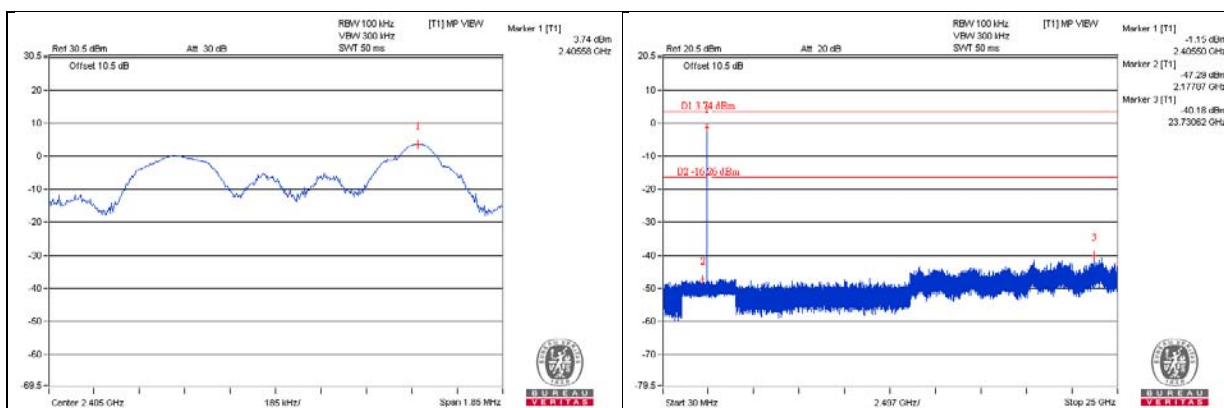
No deviation.

4.5.6 EUT Operating Condition

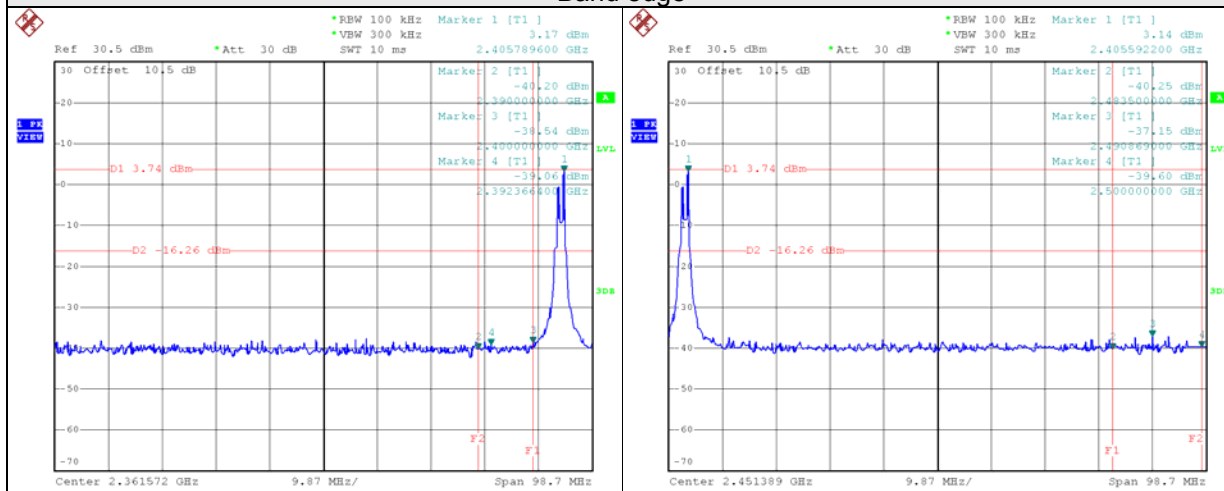
Same as item 4.3.6.

4.5.7 Test Results

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.



Band edge



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

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Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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