

TEST REPORT

Report No.: **BCTC2104240136E**

Applicant: **ShenZhen YuYuanXin Electronic Technology Co., LTD.**

Product Name: **JOY-PAD (L) / (R)**

Model/Type Ref.: **TNS-0163(L)**

Tested Date: **2021-04-27 to 2021-05-23**

Issued Date: **2021-05-25**

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AJJCTNS-0163L

Product Name: JOY-PAD (L) / (R)
Trademark: N/A
Model/Type Ref.: TNS-0163(L)
Prepared For: ShenZhen YuYuanXin Electronic Technology Co., LTD.
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Shenzhen, Guangdong, China
Sample Received Date: 2021-04-21
Sample tested Date: 2021-04-27 to 2021-05-23
Issue Date: 2021-05-25
Report No.: BCTC2104240136E
Test Standards: FCC Part15.247
ANSI C63.10-2013
Test Results: PASS
Remark: This is Bluetooth Classic radio test report.

Tested by:



Eric Yang/Project Handler

Approved by:



Zero Zhou/Reviewer

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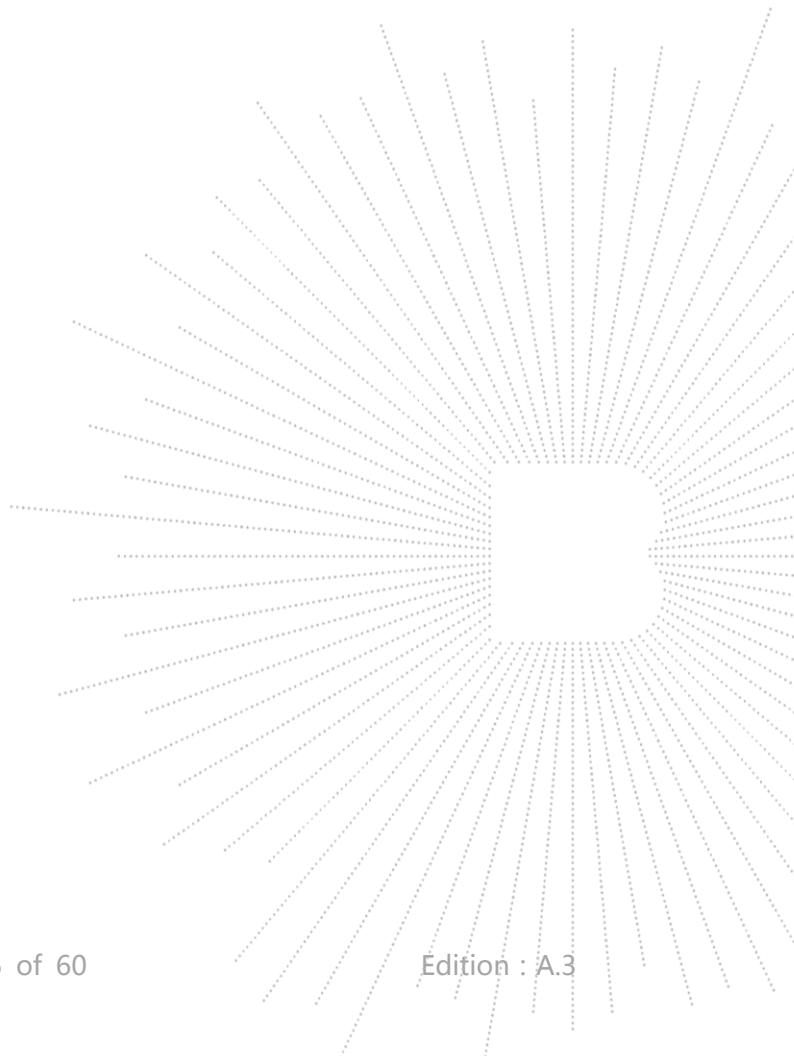
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(Note: N/A means not applicable)

1. VERSION

| Report No. | Issue Date | Description | Approved |
|-----------------|------------|-------------|----------|
| BCTC2104240136E | 2021-05-25 | Original | Valid |
| | | | |



2. TEST SUMMARY

The Product has been tested according to the following specifications:

| No. | Test Parameter | Clause No | Results |
|-----|---|--------------------------------|---------|
| 1 | Conducted emission AC power port | §15.207 | PASS |
| 2 | Conducted peak output power for FHSS | §15.247(b)(1) | PASS |
| 3 | 20dB Occupied bandwidth | §15.247(a)(1) | PASS |
| 4 | Number of hopping frequencies | §15.247(a)(1)(iii) | PASS |
| 5 | Dwell Time | §15.247(a)(1)(iii) | PASS |
| 6 | Spurious RF conducted emissions | §15.247(d) | PASS |
| 7 | Band edge | §15.247(d) | PASS |
| 8 | Spurious radiated emissions for transmitter | §15.247(d) & §15.209 & §15.205 | PASS |
| 9 | Antenna Requirement | 15.203 | PASS |

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

| No. | Item | Uncertainty |
|-----|--|----------------------------------|
| 1 | 3m chamber Radiated spurious emission(9kHz-30MHz) | $U=3.7\text{dB}$ |
| 2 | 3m chamber Radiated spurious emission(30MHz-1GHz) | $U=4.3\text{dB}$ |
| 3 | 3m chamber Radiated spurious emission(1GHz-18GHz) | $U=4.5\text{dB}$ |
| 4 | 3m chamber Radiated spurious emission(18GHz-40GHz) | $U=3.34\text{dB}$ |
| 5 | Conducted Adjacent channel power | $U=1.38\text{dB}$ |
| 6 | Conducted output power uncertainty Above 1G | $U=1.576\text{dB}$ |
| 7 | Conducted output power uncertainty below 1G | $U=1.28\text{dB}$ |
| 8 | Humidity uncertainty | $U=5.3\%$ |
| 9 | Temperature uncertainty | $U=0.59\text{ }^{\circ}\text{C}$ |
| 10 | Conducted Emission (150kHz-30MHz) | $U=3.2\text{dB}$ |

4. PRODUCT INFORMATION AND TEST SETUP

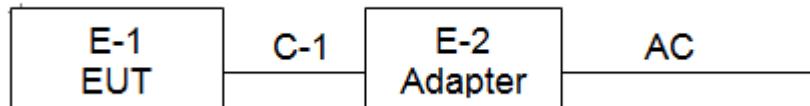
4.1 Product Information

Model/Type Ref.: TNS-0163(L)
Model differences: N/A
Operation Frequency: Bluetooth: 2402-2480MHz
Type of Modulation: Bluetooth: GFSK, Pi/4 DQPSK
Number Of Channel 79CH
Antenna installation: Bluetooth: PCB antenna
Antenna Gain: Bluetooth:0dBi
Ratings: DC 3.7V From Battery,
DC 5V From adapter

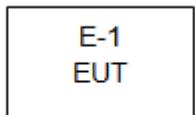
4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:



Radiated Spurious Emission:



4.3 Support Equipment

| No. | Device Type | Brand | Model | Series No. | Note |
|-----|-------------|-------|---------|------------|-----------|
| E-2 | Adapter | N/A | BCTC001 | N/A | Auxiliary |
| | | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|---------------------|
| C-1 | NO | NO | 0.8M | DC cable unshielded |

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

| CH | Frequency (MHz) |
|----|-----------------|----|-----------------|----|-----------------|----|-----------------|
| 0 | 2402 | 1 | 2403 | 2 | 2404 | 3 | 2405 |
| 4 | 2406 | 5 | 2407 | 6 | 2408 | 7 | 2409 |
| 8 | 2410 | 9 | 2411 | 10 | 2412 | 11 | 2413 |
| 12 | 2414 | 13 | 2415 | 14 | 2416 | 15 | 2417 |
| 16 | 2418 | 17 | 2419 | 18 | 2420 | 19 | 2421 |
| 20 | 2422 | 21 | 2423 | 22 | 2424 | 23 | 2425 |
| 24 | 2426 | 25 | 2427 | 26 | 2428 | 27 | 2429 |
| 28 | 2430 | 29 | 2431 | 30 | 2432 | 31 | 2433 |
| 32 | 2434 | 33 | 2435 | 34 | 2436 | 35 | 2437 |
| 36 | 2438 | 37 | 2439 | 38 | 2440 | 39 | 2441 |
| 40 | 2442 | 41 | 2443 | 42 | 2444 | 43 | 2445 |
| 44 | 2446 | 45 | 2447 | 46 | 2448 | 47 | 2449 |
| 48 | 2450 | 49 | 2451 | 50 | 2452 | 51 | 2453 |
| 52 | 2454 | 53 | 2455 | 54 | 2456 | 55 | 2457 |
| 56 | 2458 | 57 | 2459 | 58 | 2460 | 59 | 2461 |
| 60 | 2462 | 61 | 2463 | 62 | 2464 | 63 | 2465 |
| 64 | 2466 | 65 | 2467 | 66 | 2468 | 67 | 2469 |
| 68 | 2470 | 69 | 2471 | 70 | 2472 | 71 | 2473 |
| 72 | 2474 | 73 | 2475 | 74 | 2476 | 75 | 2477 |
| 76 | 2478 | 77 | 2479 | 78 | 2480 | 79 | / |

4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Test Mode | Test mode | Low channel | Middle channel | High channel |
|-----------|----------------------------------|-------------|----------------|--------------|
| 1 | Transmitting(GFSK) | 2402MHz | 2441MHz | 2480MHz |
| 2 | Transmitting(Pi/4DQPSK) | 2402MHz | 2441MHz | 2480MHz |
| 3 | Charging(Conducted emission) | | | |
| 4 | Transmitting (Radiated emission) | | | |

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) Fully-charged battery is used during the test

4.6 table of parameters of text software setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

| | | | |
|-----------------------|--------------------|----------|----------|
| Test software Version | FCC_assist 1.0.1.2 | | |
| Frequency | 2402 MHz | 2441 MHz | 2480 MHz |
| Parameters | DEF | DEF | DEF |

5. TEST FACILITY AND TEST INSTRUMENT USED

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

5.2 Test Instrument Used

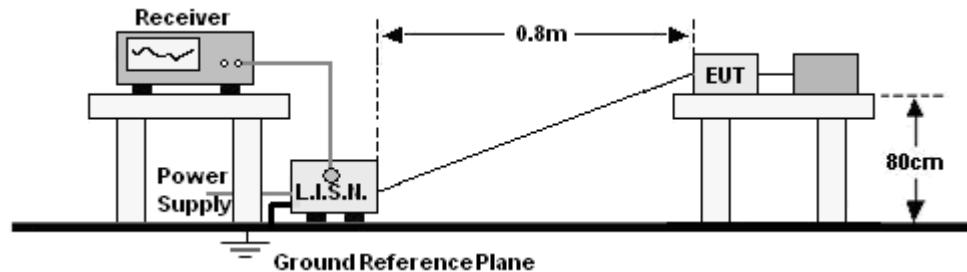
| Conducted emissions Test | | | | | |
|--------------------------|--------------|----------|-------------|---------------|---------------|
| Equipment | Manufacturer | Model# | Serial# | Last Cal. | Next Cal. |
| Receiver | R&S | ESR3 | 102075 | Jun. 08, 2020 | Jun. 07, 2021 |
| LISN | R&S | ENV216 | 101375 | Jun. 04, 2020 | Jun. 03, 2021 |
| ISN | HPX | ISN T800 | S1509001 | Jun. 04, 2020 | Jun. 03, 2021 |
| Software | Frad | EZ-EMC | EMC-CON 3A1 | \ | \ |

| RF Conducted Test | | | | | |
|-------------------------------|--------------|--------|------------|---------------|---------------|
| Equipment | Manufacturer | Model# | Serial# | Last Cal. | Next Cal. |
| Signal Analyzer 20kHz-26.5GHz | KEYSIGHT | N9020A | MY49100060 | Jun. 04, 2020 | Jun. 03, 2021 |

| Radiated emissions Test (966 chamber) | | | | | |
|---------------------------------------|--------------|----------------|---------------|---------------|---------------|
| Equipment | Manufacturer | Model# | Serial# | Last Cal. | Next Cal. |
| 966 chamber | ChengYu | 966 Room | 966 | Jun. 06. 2020 | Jun. 05, 2023 |
| Receiver | R&S | ESR3 | 102075 | Jun. 08, 2020 | Jun. 07, 2021 |
| Receiver | R&S | ESRP | 101154 | Jun. 08, 2020 | Jun. 07, 2021 |
| Amplifier | Schwarzbeck | BBV9718 | 9718-309 | Jun. 04, 2020 | Jun. 03, 2021 |
| Amplifier | Schwarzbeck | BBV9744 | 9744-0037 | Jun. 04, 2020 | Jun. 03, 2021 |
| TRILOG Broadband Antenna | schwarzbeck | VULB 9163 | VULB9163-942 | Jun. 08, 2020 | Jun. 07, 2021 |
| Horn Antenna | SCHWARZBECK | BBHA9120 D | 1201 | Jun. 10, 2020 | Jun. 09, 2021 |
| Horn Antenna (18GHz-40 GHz) | SCHWARZBECK | BBHA9170 | 822 | Jun. 10, 2020 | Jun. 09, 2021 |
| Amplifier (18GHz-40 GHz) | MITEQ | TTA1840-3 5-HG | 2034381 | Jun. 08, 2020 | Jun. 07, 2021 |
| Loop Antenna (9KHz-30MHz) | SCHWARZBECK | FMZB1519 B | 014 | Jun. 08, 2020 | Jun. 07, 2021 |
| RF cables1 (9kHz-30MHz) | Huber+Suhnar | 9kHz-30MHz | B1702988-0008 | Jun. 08, 2020 | Jun. 07, 2021 |
| RF cables2 (30MHz-1GHz) | Huber+Suhnar | 30MHz-1GHz | 1486150 | Jun. 08, 2020 | Jun. 07, 2021 |
| RF cables3 (1GHz-40GHz) | Huber+Suhnar | 1GHz-40GHz | 1607106 | Jun. 08, 2020 | Jun. 07, 2021 |
| Power Meter | Keysight | E4419B | \ | Jun. 08, 2020 | Jun. 07, 2021 |
| Power Sensor (AV) | Keysight | E9 300A | \ | Jun. 08, 2020 | Jun. 07, 2021 |
| Signal Analyzer 20kHz-26.5 GHz | KEYSIGHT | N9020A | MY491000 60 | Jun. 04, 2020 | Jun. 03, 2021 |
| Spectrum Analyzer 9kHz-40GHz | Agilent | FSP40 | 100363 | Jun. 08, 2020 | Jun. 07, 2021 |
| Software | Frad | EZ-EMC | FA-03A2 RE | \ | \ |

6. CONDUCTED EMISSIONS

6.1 Block Diagram Of Test Setup



6.2 Limit

| FREQUENCY (MHz) | Limit (dBuV) | |
|-----------------|--------------|-----------|
| | Quas-peak | Average |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * |
| 0.50 -5.0 | 56.00 | 46.00 |
| 5.0 -30.0 | 60.00 | 50.00 |

Notes:

1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |

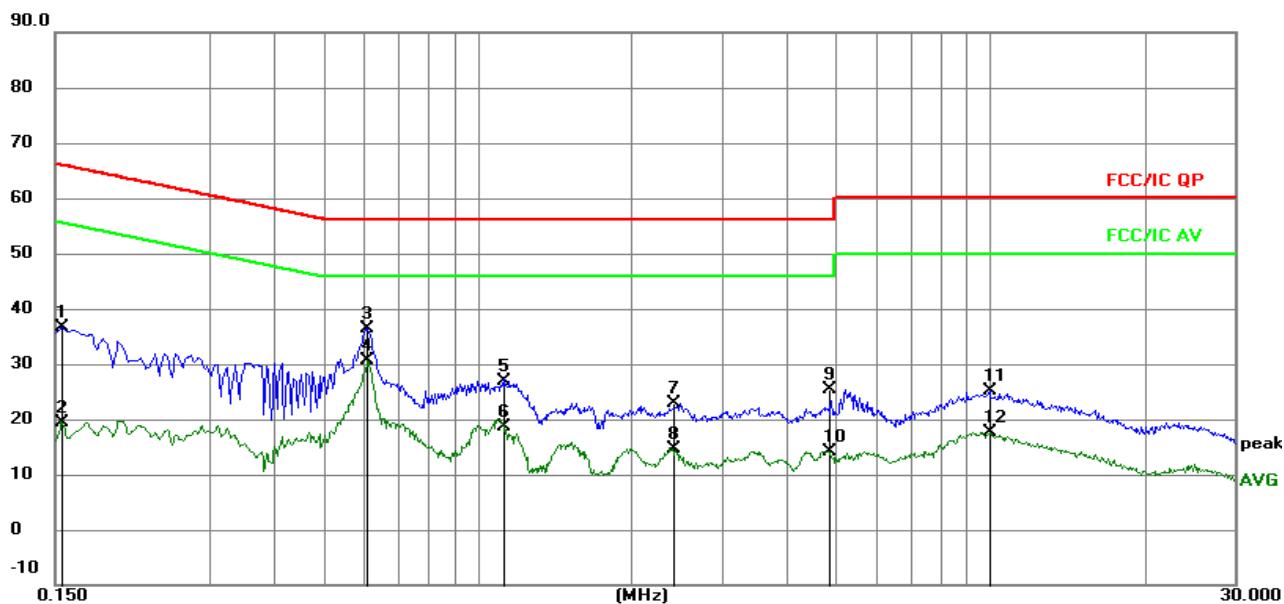
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N.).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

6.5 Test Result

| | | | |
|----------------|--------------|---------------------|--------|
| Temperature : | 26 °C | Relative Humidity : | 54% |
| Pressure : | 101kPa | Phase : | L |
| Test Voltage : | AC 120V/60Hz | Test Mode : | Mode 3 |

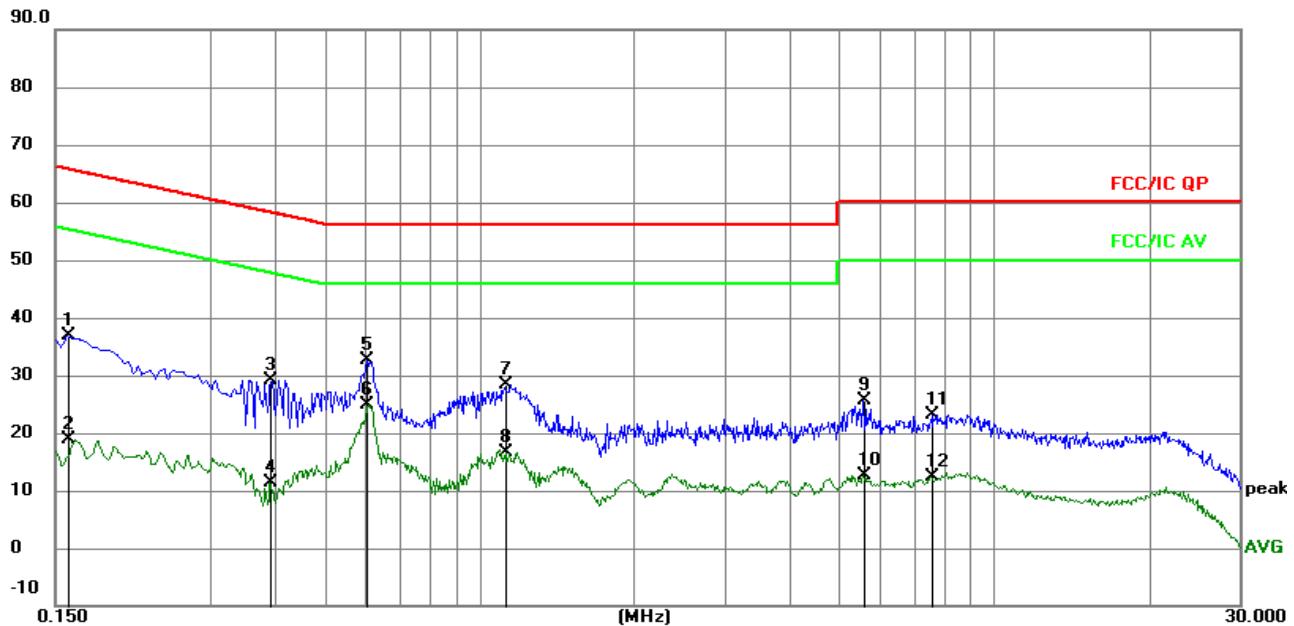


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Detector |
|-----|-----|--------|---------|---------|----------|-------|--------|----------|
| | | | Level | Factor | ment | | | |
| | | MHz | | dB | dBuV | | dB | |
| 1 | | 0.1548 | 27.02 | 9.51 | 36.53 | 65.74 | -29.21 | QP |
| 2 | | 0.1548 | 9.96 | 9.51 | 19.47 | 55.74 | -36.27 | AVG |
| 3 | | 0.6045 | 26.50 | 9.98 | 36.48 | 56.00 | -19.52 | QP |
| 4 * | | 0.6045 | 20.55 | 9.98 | 30.53 | 46.00 | -15.47 | AVG |
| 5 | | 1.1265 | 17.41 | 9.57 | 26.98 | 56.00 | -29.02 | QP |
| 6 | | 1.1265 | 9.14 | 9.57 | 18.71 | 46.00 | -27.29 | AVG |
| 7 | | 2.4000 | 13.33 | 9.62 | 22.95 | 56.00 | -33.05 | QP |
| 8 | | 2.4000 | 4.99 | 9.62 | 14.61 | 46.00 | -31.39 | AVG |
| 9 | | 4.8300 | 15.64 | 9.79 | 25.43 | 56.00 | -30.57 | QP |
| 10 | | 4.8300 | 4.30 | 9.79 | 14.09 | 46.00 | -31.91 | AVG |
| 11 | | 9.9960 | 15.52 | 9.69 | 25.21 | 60.00 | -34.79 | QP |
| 12 | | 9.9960 | 7.97 | 9.69 | 17.66 | 50.00 | -32.34 | AVG |

| | | | |
|----------------|--------------|---------------------|--------|
| Temperature : | 26 °C | Relative Humidity : | 54% |
| Pressure : | 101kPa | Phase : | N |
| Test Voltage : | AC 120V/60Hz | Test Mode : | Mode 3 |


Remark:

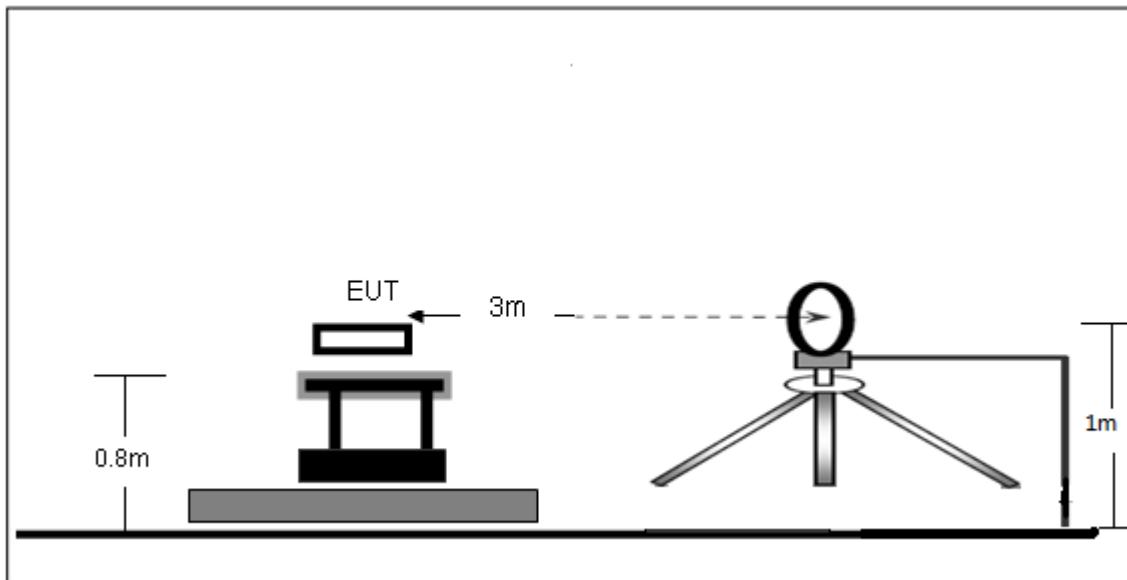
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over |
|-----|--------|-------|---------|---------|----------|--------|------|
| | | | Level | Factor | ment | | |
| | | MHz | | dB | dBuV | dBuV | dB |
| 1 | 0.1582 | 27.27 | 9.51 | 36.78 | 65.56 | -28.78 | QP |
| 2 | 0.1582 | 9.31 | 9.51 | 18.82 | 55.56 | -36.74 | AVG |
| 3 | 0.3914 | 19.60 | 9.51 | 29.11 | 58.03 | -28.92 | QP |
| 4 | 0.3914 | 1.83 | 9.51 | 11.34 | 48.03 | -36.69 | AVG |
| 5 | 0.6043 | 22.76 | 9.98 | 32.74 | 56.00 | -23.26 | QP |
| 6 * | 0.6043 | 14.81 | 9.98 | 24.79 | 46.00 | -21.21 | AVG |
| 7 | 1.1292 | 18.84 | 9.57 | 28.41 | 56.00 | -27.59 | QP |
| 8 | 1.1292 | 7.04 | 9.57 | 16.61 | 46.00 | -29.39 | AVG |
| 9 | 5.5641 | 15.86 | 9.78 | 25.64 | 60.00 | -34.36 | QP |
| 10 | 5.5641 | 2.89 | 9.78 | 12.67 | 50.00 | -37.33 | AVG |
| 11 | 7.5258 | 13.47 | 9.71 | 23.18 | 60.00 | -36.82 | QP |
| 12 | 7.5258 | 2.79 | 9.71 | 12.50 | 50.00 | -37.50 | AVG |

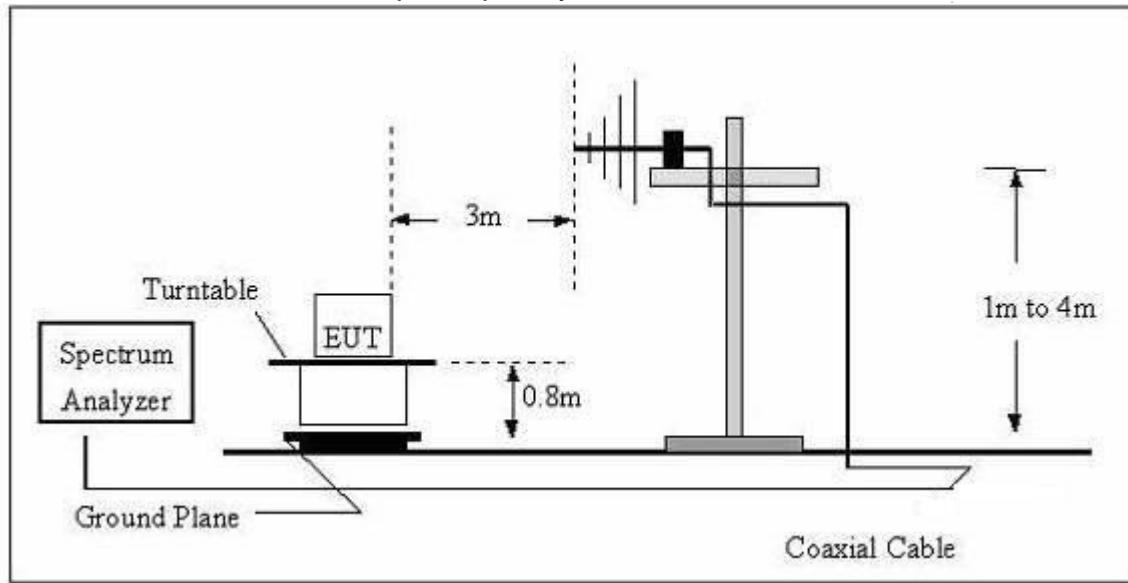
7. RADIATED EMISSIONS

7.1 Block Diagram Of Test Setup

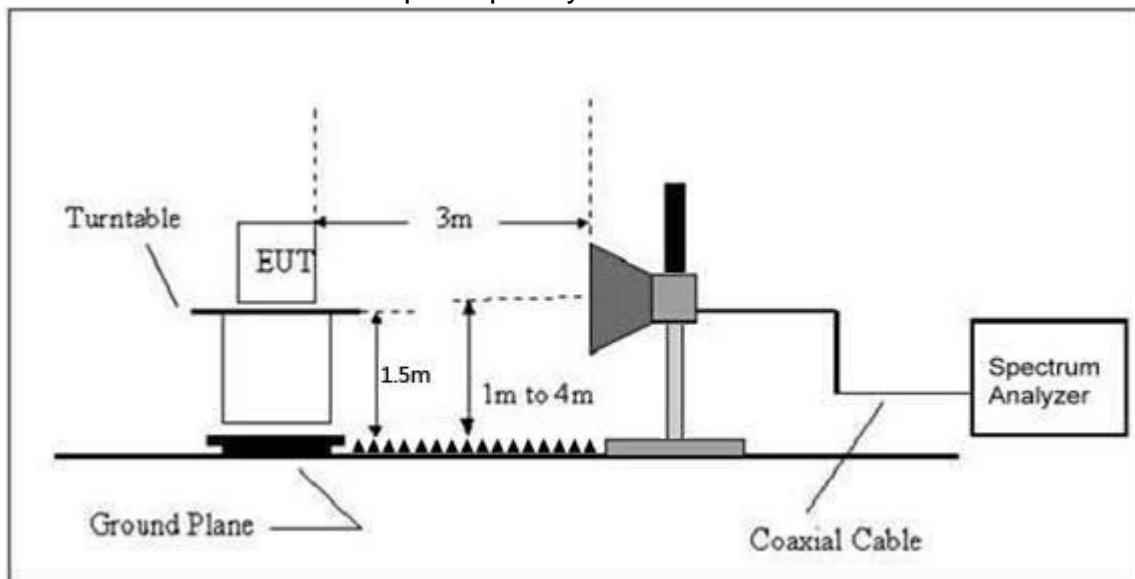
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequency (MHz) | Field Strength uV/m | Distance (m) | Field Strength Limit at 3m Distance | |
|--------------------|------------------------|-----------------|-------------------------------------|--------------------------------------|
| | | | uV/m | dBuV/m |
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 | 10000 * 2400/F(kHz) | 20log ^{(2400/F(kHz))} + 80 |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 | 100 * 24000/F(kHz) | 20log ^{(24000/F(kHz))} + 40 |
| 1.705 ~ 30 | 30 | 30 | 100 * 30 | 20log ⁽³⁰⁾ + 40 |
| 30 ~ 88 | 100 | 3 | 100 | 20log ⁽¹⁰⁰⁾ |
| 88 ~ 216 | 150 | 3 | 150 | 20log ⁽¹⁵⁰⁾ |
| 216 ~ 960 | 200 | 3 | 200 | 20log ⁽²⁰⁰⁾ |
| Above 960 | 500 | 3 | 500 | 20log ⁽⁵⁰⁰⁾ |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENC Y (MHz) | Limit (dBuV/m) (at 3M) | |
|---------------------|------------------------|---------|
| | PEAK | AVERAGE |
| Above 1000 | 74 | 54 |

Notes:

- (1)The limit for radiated test was performed according to FCC PART 15C.
- (2)The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

7.3 Test procedure

| Receiver Parameter | Setting |
|--------------------|-------------------|
| Attenuation | Auto |
| 9kHz~150kHz | RBW 200Hz for QP |
| 150kHz~30MHz | RBW 9kHz for QP |
| 30MHz~1000MHz | RBW 120kHz for QP |

| Spectrum Parameter | Setting |
|--------------------|--|
| 1-25GHz | RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 1/T Hz for Average |

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- Test the EUT in the lowest channel ,the middle channel ,the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

Above 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. 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 antenna height 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.5 Test Result

Below 30MHz

| | | | |
|--------------|---------|--------------------|---------|
| Temperature: | 26°C | Relative Humidity: | 24% |
| Pressure: | 101 kPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 4 | Polarization : | -- |

| Freq. (MHz) | Reading (dBuV/m) | Limit (dBuV/m) | Margin (dB) | State |
|----------------|---------------------|-------------------|----------------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) | P/F |
| -- | -- | -- | -- | PASS |
| -- | -- | -- | -- | PASS |

Note:

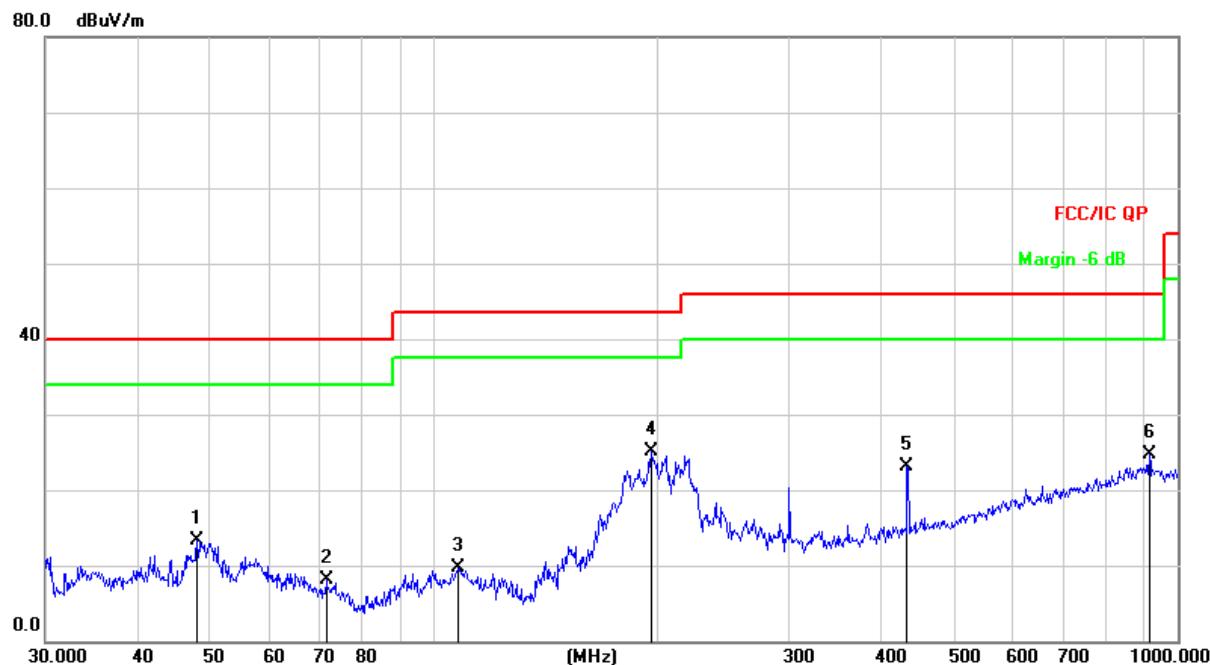
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

Between 30MHz – 1GHz

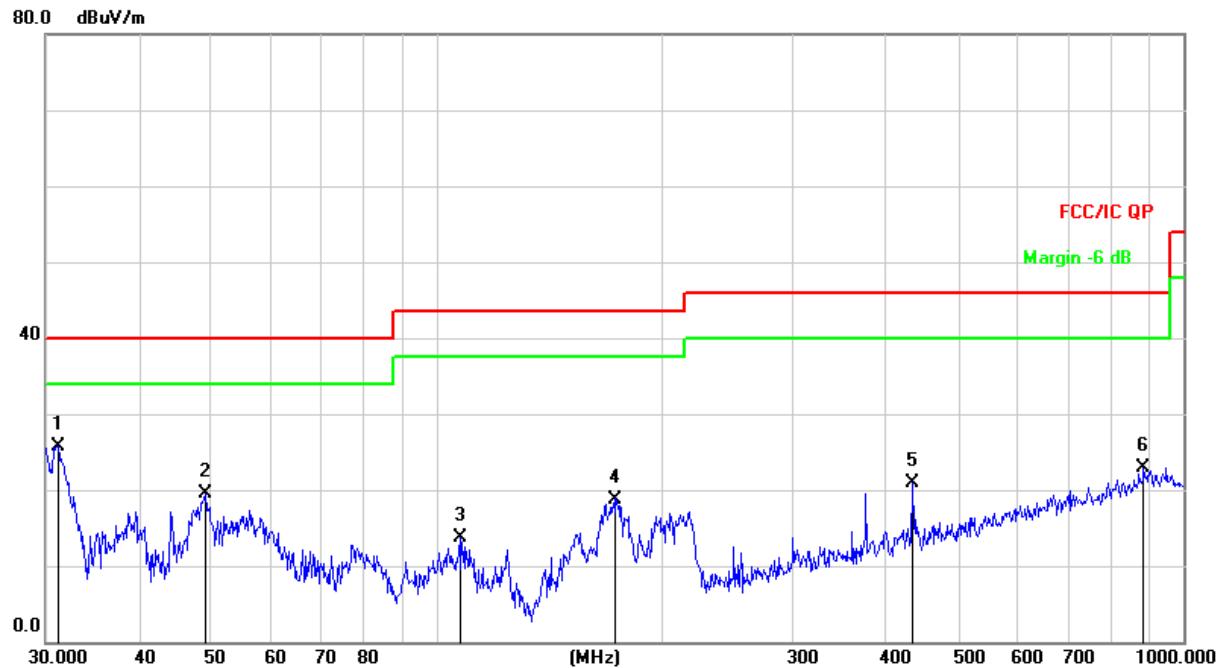
| | | | |
|--------------|---------|--------------------|------------|
| Temperature: | 26°C | Relative Humidity: | 54% |
| Pressure: | 101 kPa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 4 | Polarization : | Horizontal |


Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | Detector |
|-----|-----|----------|---------------|----------------|------------------|-------|--------|----------|
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | |
| 1 | | 47.9940 | 27.54 | -14.25 | 13.29 | 40.00 | -26.71 | QP |
| 2 | | 71.5806 | 25.68 | -17.60 | 8.08 | 40.00 | -31.92 | QP |
| 3 | | 107.8877 | 25.65 | -15.98 | 9.67 | 43.50 | -33.83 | QP |
| 4 | * | 195.8220 | 40.65 | -15.55 | 25.10 | 43.50 | -18.40 | QP |
| 5 | | 432.5457 | 32.05 | -8.99 | 23.06 | 46.00 | -22.94 | QP |
| 6 | | 916.0687 | 24.93 | -0.19 | 24.74 | 46.00 | -21.26 | QP |

| | | | |
|--------------|---------|--------------------|----------|
| Temperature: | 26°C | Relative Humidity: | 54% |
| Pressure: | 101 kpa | Test Voltage : | DC 3.7V |
| Test Mode : | Mode 4 | Polarization : | Vertical |


Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | Detector |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|
| | | | Level | Factor | ment | | | |
| | | MHz | dBuV | dB | dBuV/m | dB/m | dB | |
| 1 | * | 31.1798 | 41.73 | -15.97 | 25.76 | 40.00 | -14.24 | QP |
| 2 | | 49.0145 | 33.70 | -14.16 | 19.54 | 40.00 | -20.46 | QP |
| 3 | | 107.5101 | 29.68 | -15.96 | 13.72 | 43.50 | -29.78 | QP |
| 4 | | 173.8135 | 35.87 | -17.07 | 18.80 | 43.50 | -24.70 | QP |
| 5 | | 434.0651 | 29.94 | -8.96 | 20.98 | 46.00 | -25.02 | QP |
| 6 | | 884.5029 | 23.30 | -0.32 | 22.98 | 46.00 | -23.02 | QP |