

FCC Test Report

Report No.: RF190119C10-5 R1

FCC ID: 2AA3N-TTR01

Test Model: PLTN-TTR01

Received Date: Jan. 19, 2019

Test Date: Feb. 18 ~ Mar. 11, 2019

Issued Date: Jun. 09, 2020

Applicant: Peloton Interactive Inc.

Address: 125 W 25th Street, 11th Floor, New York, NY, 10001, USA

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

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

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33383, TAIWAN

FCC Registration / 788550 / TW0003
Designation Number:



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Release Control Record

| Issue No. | Description | Date Issued |
|------------------|---|---------------|
| RF190119C10-5 | Original release | Mar. 18, 2019 |
| RF190119C10-5 R1 | Revised item 3.3 description of Support Units | Jun. 09, 2020 |

1 Certificate of Conformity

Product: Peloton Console

Brand: PELOTON

Test Model: PLTN-TTR01

Series Model: Engineering sample

Applicant: Peloton Interactive Inc.

Test Date: Feb. 18 ~ Mar. 11, 2019

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.249)
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 RF characteristics under the conditions specified in this report.

Prepared by : Celine Chou , **Date:** Jun. 09, 2020
Celine Chou / Senior Specialist

Approved by : Bruce Chen , **Date:** Jun. 09, 2020
Bruce Chen / Senior Project Engineer

2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart C (Section 15.249) | | | |
|--|--|--------|---|
| FCC Clause | Test Item | Result | Remarks |
| 15.207 | AC Power Conducted Emission | Pass | Meet the requirement of limit. Minimum passing margin is -8.60dB at 2.27625MHz. |
| 15.209 15.249 15.249 (d) | Radiated Emission Test Band Edge Measurement Limit: 50dB less than the peak value of fundamental frequency or meet radiated emission limit in section 15.209 | Pass | Meet the requirement of limit. Minimum passing margin is -4.3dB at 62.95MHz. |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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) (\pm) |
|------------------------------------|------------------|--------------------------------------|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz | 2.94 dB |
| Radiated Emissions up to 1 GHz | 9kHz ~ 30MHz | 3.04 dB |
| | 30MHz ~ 200MHz | 3.59 dB |
| | 200MHz ~ 1000MHz | 3.60 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 | Peloton Console |
| Brand | PELTON |
| Test Model | PLTN-TTR01 |
| Sample Status | Engineering sample |
| Power Supply Rating | 20Vdc from adapter |
| Modulation Type | GFSK |
| Transfer Rate | 1Mbps |
| Operating Frequency | 2402 ~ 2480MHz |
| Number of Channel | 79 |
| Field Strength | 96.7dBuV/m (3m) |
| Antenna Type | PIFA antenna with -0.19dBi gain |
| Antenna Connector | i-pex(MHF) |
| Accessory Device | Adapter, Exercise Bike |
| Cable Supplied | NA |

Note:

1. The EUT consumes power from the following Adapter.

| | |
|--------------|--|
| Adapter | |
| Brand | PELTON |
| Model | FSP065-APDC8R01 |
| Input Power | 100-240Vac, 50-60Hz, 1.7A |
| Output Power | 5Vdc, 3A or 9Vdc, 3A or 20Vdc, 3.25A, 65W Max. |
| Power Line | AC: 1.7m non-shielded power cable without core DC: 1.5m non-shielded power cable without core attached on adapter |

2. Spurious emission of the simultaneous operation mode as below and the test data please refer to report no.: RF190119C10-7.

| No | Mode |
|----|-------------------------|
| 1 | WLAN 2.4GHz + WLAN 5GHz |
| 2 | BT + WLAN 5GHz |
| 3 | ANT+ + WLAN 5GHz |

3.2 Description of Test Modes

79 channels are provided to this EUT:

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

3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable To | | | Description |
|--------------------|---------------|-------|-----|-------------------------------|
| | RE \geq 1G | RE<1G | PLC | |
| A | √ | √ | √ | EUT + Adapter |
| B | - | √ | √ | EUT + Exercise Bike + Adapter |

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

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 |
|--------------------|-------------------|----------------|-----------------|
| A | 0 to 78 | 0, 38, 78 | GFSK |

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 |
|--------------------|-------------------|----------------|-----------------|
| A, B | 0 to 78 | 0 | GFSK |

Power Line Conducted Emission Test:

- ☒ 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 |
|--------------------|-------------------|----------------|-----------------|
| A, B | 0 to 78 | 0 | GFSK |

Test Condition:

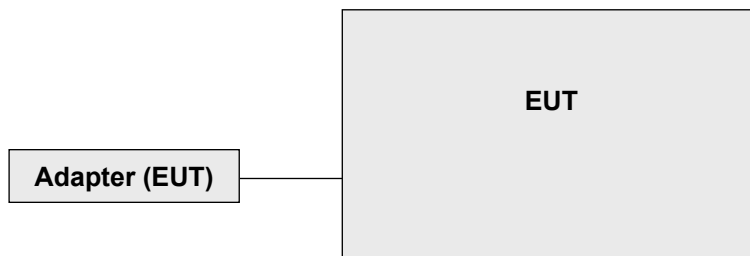
| Applicable To | Environmental Conditions | Input Power | Tested By |
|------------------------------|--------------------------|--------------|----------------------------|
| RE\geq1G | 22 deg. C, 66% RH | 120Vac, 60Hz | Han Wu |
| RE<1G | 21 deg. C, 68% RH | 120Vac, 60Hz | Willy Cheng |
| | 22 deg. C, 66% RH | | Greg Lin |
| PLC | 25 deg. C, 75% RH | 120Vac, 60Hz | Willy Cheng Jones Chang |

3.3 Description of Support Units

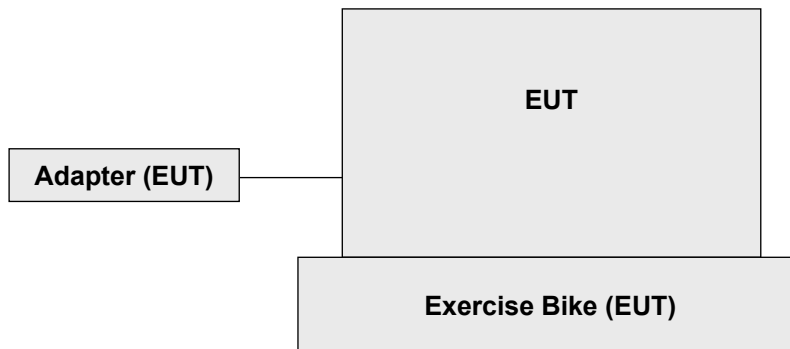
The EUT has been tested as an independent unit.
Exercise Bike and adapter included as representative accessories.

3.3.1 Configuration of System under Test

Test Mode A



Test Mode B



3.4 General Description of Applied Standards

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

FCC Part 15, Subpart C (15.249)

ANSI C63.10-2013

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental Frequency | Field Strength of Fundamental (millivolts/meter) | Field Strength of Harmonics (microvolts/meter) |
|-----------------------|--|--|
| 902 ~ 928 MHz | 50 | 500 |
| 2400 ~ 2483.5 MHz | 50 | 500 |
| 5725 ~ 5875 MHz | 50 | 500 |
| 24 ~ 24.25 GHz | 250 | 2500 |

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

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490 | $2400/F(\text{kHz})$ | 300 |
| 0.490 ~ 1.705 | $24000/F(\text{kHz})$ | 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 ($\mu\text{V/m}$).
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 KEYSIGHT | N9038A | MY55420137 | Apr. 11, 2018 | Apr. 10, 2019 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSP40 | 100269 | May 29, 2018 | May 28, 2019 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-160 | Nov. 21, 2018 | Nov. 20, 2019 |
| HORN Antenna SCHWARZBECK | BBHA 9120 D | 9120D-1169 | Nov. 25, 2018 | Nov. 24, 2019 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | BBHA9170241 | Nov. 25, 2018 | Nov. 24, 2019 |
| Loop Antenna TESEQ | HLA 6121 | 45745 | Jun. 14, 2018 | Jun. 13, 2019 |
| Preamplifier Agilent (Below 1GHz) | 8447D | 2944A10638 | Aug. 08, 2018 | Aug. 07, 2019 |
| Preamplifier Agilent (Above 1GHz) | 8449B | 3008A02367 | Mar. 16, 2018 | Mar. 15, 2019 |
| RF signal cable HUBER+SUHNER&EMCI | SUCOFLEX 104 & EMC104-SM-SM80 00 | CABLE-CH9-02 (248780+171006) | Jan. 19, 2019 | Jan. 18, 2020 |
| RF signal cable HUBER+SUHNER | SUCOFLEX 104 | CABLE-CH9-(250795/4) | Aug. 08, 2018 | Aug. 07, 2019 |
| RF signal cable Woken | 8D-FB | Cable-CH9-01 | Jul. 31, 2018 | Jul. 30, 2019 |
| Software BV ADT | ADT_Radiated_ V7.6.15.9.5 | 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 |
| Boresight Antenna Fixture | FBA-01 | FBA-SIP01 | NA | NA |
| Pre-amplifier (18GHz-40GHz) EMC | EMC184045B | 980175 | Nov. 14, 2018 | Nov. 13, 2019 |
| USB Wideband Power Sensor KEYSIGHT | U2021XA | MY55050005/MY55190 004/MY55190007/MY55 210005 | Jul. 17, 2018 | Jul. 16, 2019 |

- 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 FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
4. The IC Site Registration No. is 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. Parallel, perpendicular, and ground-parallel orientations 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:

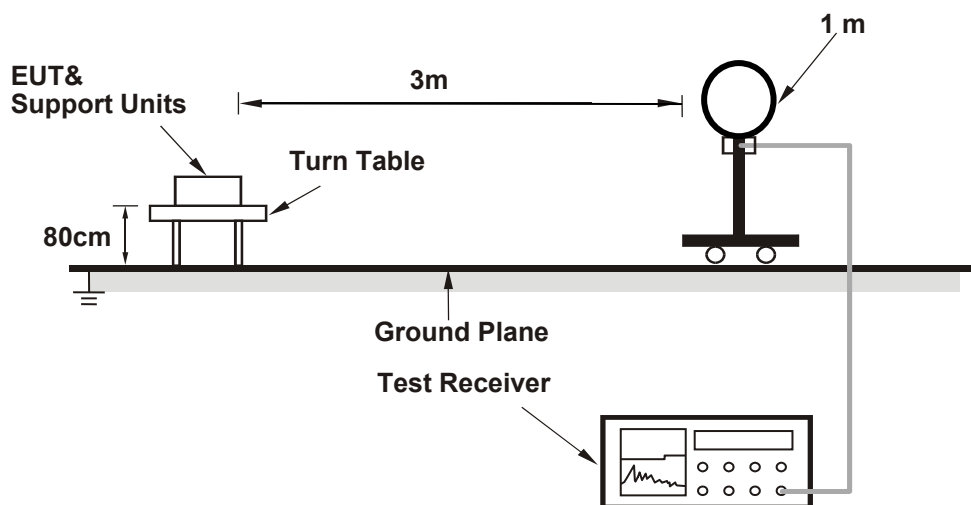
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10 Hz (Duty cycle $\geq 98\%$) for Peak detection 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

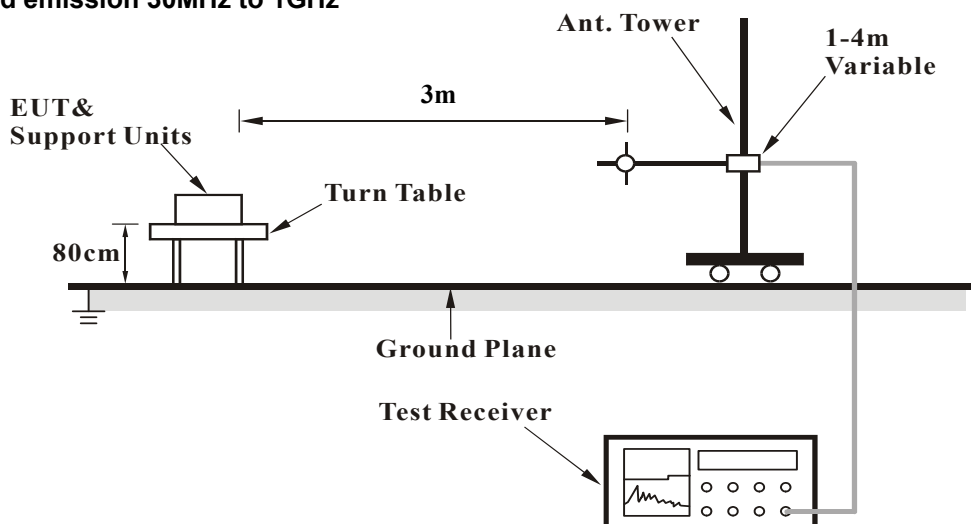
No deviation.

4.1.5 Test Set Up

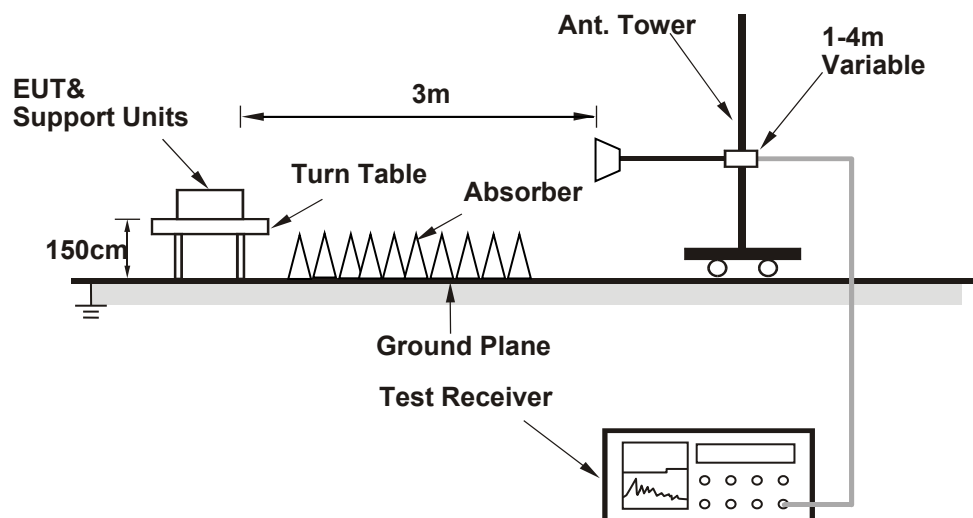
For Radiated emission below 30MHz



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

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

4.1.7 Test Results

| | | | |
|-----------------|--------------|-------------------|---------------------------|
| CHANNEL | TX Channel 0 | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz | | |

| 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 | 55.9 PK | 74.0 | -18.1 | 1.99 H | 286 | 24.1 | 31.8 |
| 2 | 2390.00 | 45.5 AV | 54.0 | -8.5 | 1.99 H | 286 | 13.7 | 31.8 |
| 3 | *2402.00 | 95.0 PK | 114.0 | -19.0 | 1.99 H | 296 | 63.2 | 31.8 |
| 4 | *2402.00 | 61.2 AV | 94.0 | -32.8 | 1.99 H | 296 | 29.4 | 31.8 |
| 5 | 4804.00 | 39.0 PK | 74.0 | -35.0 | 3.03 H | 195 | 35.3 | 3.7 |
| 6 | 4804.00 | 5.2 AV | 54.0 | -48.8 | 3.03 H | 195 | 1.5 | 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 | 2390.00 | 55.7 PK | 74.0 | -18.3 | 2.53 V | 227 | 23.9 | 31.8 |
| 2 | 2390.00 | 45.3 AV | 54.0 | -8.7 | 2.53 V | 227 | 13.5 | 31.8 |
| 3 | *2402.00 | 96.6 PK | 114.0 | -17.4 | 2.50 V | 225 | 64.8 | 31.8 |
| 4 | *2402.00 | 62.8 AV | 94.0 | -31.2 | 2.50 V | 225 | 31.0 | 31.8 |
| 5 | 4804.00 | 39.8 PK | 74.0 | -34.2 | 2.99 V | 199 | 36.1 | 3.7 |
| 6 | 4804.00 | 6.0 AV | 54.0 | -48.0 | 2.99 V | 199 | 2.3 | 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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle)
Where the duty factor is calculated from following formula:

$$20 \log (\text{Duty cycle}) = 20 \log (0.205 * 10 / 100 \text{ ms}) = -33.8 \text{ dB}$$
Please see page 18 for plotted duty.

| | | | |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL | TX Channel 38 | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz | | |

| 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 | *2440.00 | 94.3 PK | 114.0 | -19.7 | 2.06 H | 297 | 62.5 | 31.8 |
| 2 | *2440.00 | 60.5 AV | 94.0 | -33.5 | 2.06 H | 297 | 28.7 | 31.8 |
| 3 | 4880.00 | 40.3 PK | 74.0 | -33.7 | 3.00 H | 200 | 36.8 | 3.5 |
| 4 | 4880.00 | 6.5 AV | 54.0 | -47.5 | 3.00 H | 200 | 3.0 | 3.5 |
| 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 | *2440.00 | 95.9 PK | 114.0 | -18.1 | 2.40 V | 211 | 64.1 | 31.8 |
| 2 | *2440.00 | 62.1 AV | 94.0 | -31.9 | 2.40 V | 211 | 30.3 | 31.8 |
| 3 | 4880.00 | 39.2 PK | 74.0 | -34.8 | 2.98 V | 198 | 35.7 | 3.5 |
| 4 | 4880.00 | 5.4 AV | 54.0 | -48.6 | 2.98 V | 198 | 1.9 | 3.5 |

Remarks:

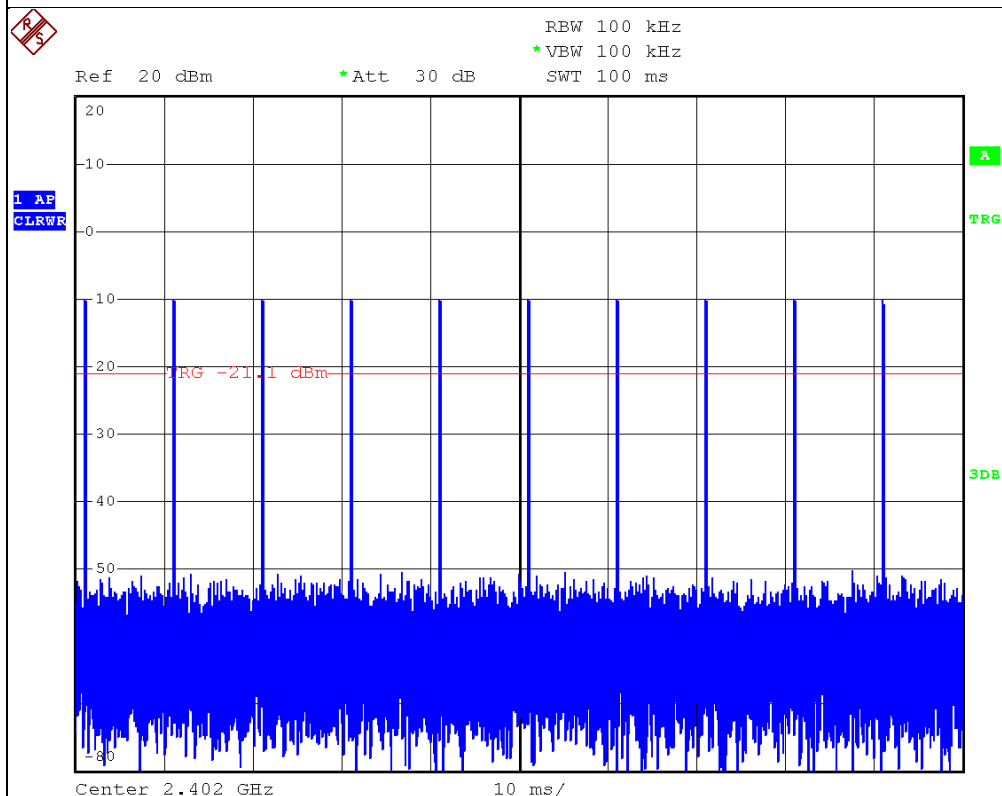
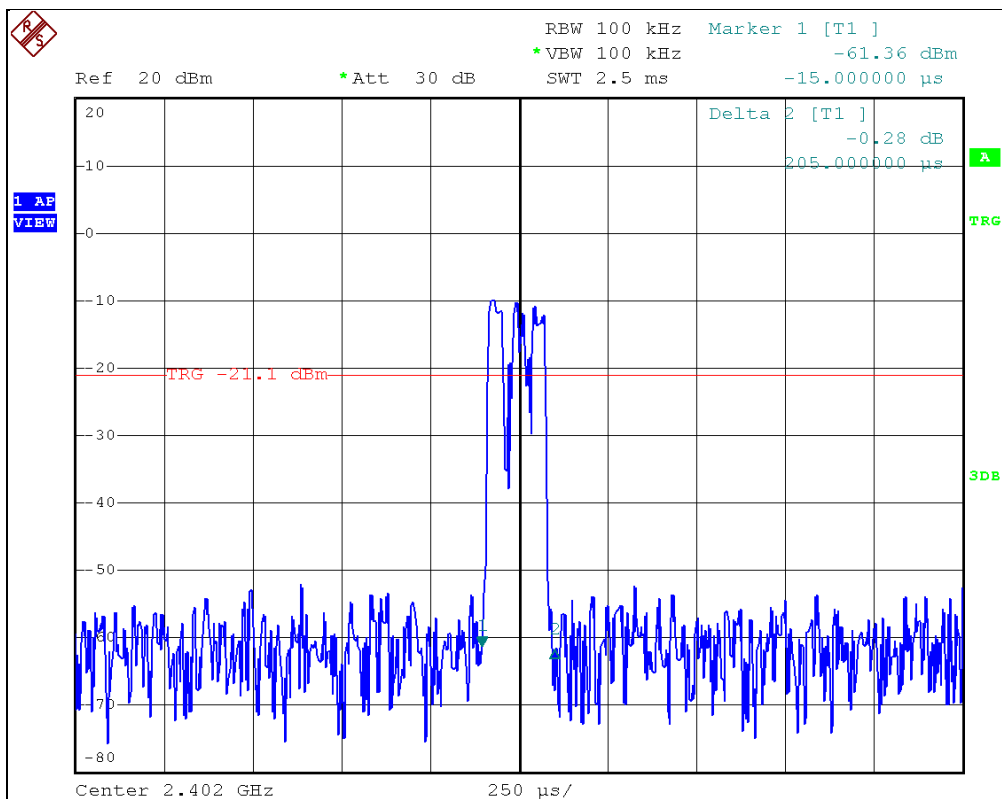
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle)
Where the duty factor is calculated from following formula:
 $20 \log (\text{Duty cycle}) = 20 \log (0.205 * 10 / 100 \text{ ms}) = -33.8\text{dB}$
Please see page 18 for plotted duty.

| | | | |
|-----------------|---------------|-------------------|---------------------------|
| CHANNEL | TX Channel 78 | DETECTOR FUNCTION | Peak (PK) Average (AV) |
| FREQUENCY RANGE | 1GHz ~ 25GHz | | |

| 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 | *2480.00 | 95.5 PK | 114.0 | -18.5 | 2.07 H | 299 | 63.7 | 31.8 |
| 2 | *2480.00 | 61.7 AV | 94.0 | -32.3 | 2.07 H | 299 | 29.9 | 31.8 |
| 3 | 2483.50 | 55.8 PK | 74.0 | -18.2 | 2.12 H | 297 | 24.0 | 31.8 |
| 4 | 2483.50 | 45.3 AV | 54.0 | -8.7 | 2.12 H | 297 | 13.5 | 31.8 |
| 5 | 4960.00 | 40.6 PK | 74.0 | -33.4 | 2.95 H | 201 | 36.8 | 3.8 |
| 6 | 4960.00 | 6.9 AV | 54.0 | -47.1 | 2.95 H | 201 | 3.1 | 3.8 |
| 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 | *2480.00 | 96.7 PK | 114.0 | -17.3 | 2.35 V | 209 | 64.9 | 31.8 |
| 2 | *2480.00 | 62.9 AV | 94.0 | -31.1 | 2.35 V | 209 | 31.1 | 31.8 |
| 3 | 2483.50 | 55.6 PK | 74.0 | -18.4 | 4.00 V | 210 | 23.8 | 31.8 |
| 4 | 2483.50 | 45.3 AV | 54.0 | -8.7 | 4.00 V | 210 | 13.5 | 31.8 |
| 5 | 4960.00 | 40.2 PK | 74.0 | -33.8 | 3.04 V | 197 | 36.4 | 3.8 |
| 6 | 4960.00 | 6.4 AV | 54.0 | -47.6 | 3.04 V | 197 | 2.6 | 3.8 |

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle)
Where the duty factor is calculated from following formula:
20 log (Duty cycle) = 20 log (0.205 * 10 / 100 ms) = -33.8dB
Please see page 18 for plotted duty.



$$20 \log (\text{Duty cycle}) = 20 \log (0.205 * 10 / 100 \text{ ms}) = -33.8 \text{ dB}$$

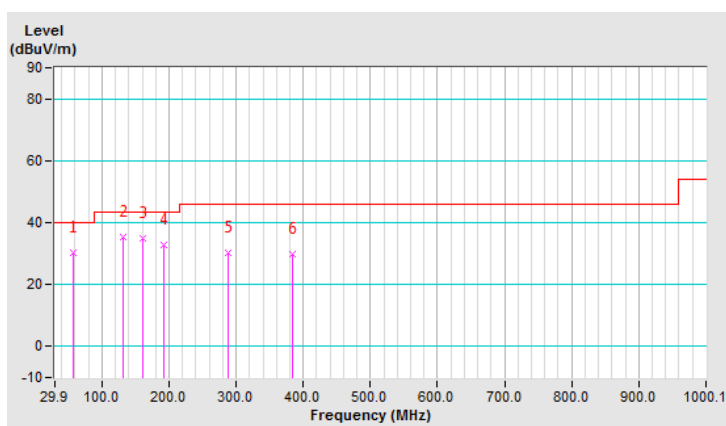
Below 1GHz worst-case data

| | | | |
|-----------------|--------------|----------------------|-----------------|
| CHANNEL | TX Channel 0 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz | | |
| TEST MODE | A | | |

| 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 | 57.12 | 30.1 QP | 40.0 | -9.9 | 1.99 H | 122 | 40.2 | -10.1 |
| 2 | 131.00 | 35.3 QP | 43.5 | -8.2 | 1.99 H | 76 | 45.8 | -10.5 |
| 3 | 160.17 | 35.1 QP | 43.5 | -8.4 | 1.50 H | 329 | 44.1 | -9.0 |
| 4 | 191.28 | 33.0 QP | 43.5 | -10.5 | 1.50 H | 171 | 44.1 | -11.1 |
| 5 | 288.49 | 30.3 QP | 46.0 | -15.7 | 1.00 H | 91 | 37.9 | -7.6 |
| 6 | 383.76 | 29.9 QP | 46.0 | -16.1 | 1.99 H | 201 | 35.7 | -5.8 |

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

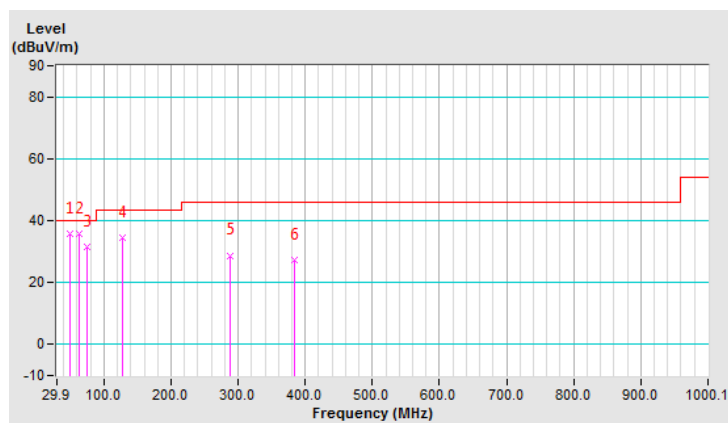


| | | | |
|-----------------|--------------|-------------------|-----------------|
| CHANNEL | TX Channel 0 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz | | |
| TEST MODE | A | | |

| 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 | 49.34 | 35.6 QP | 40.0 | -4.4 | 1.00 V | 16 | 45.3 | -9.7 |
| 2 | 62.95 | 35.7 QP | 40.0 | -4.3 | 1.00 V | 16 | 46.0 | -10.3 |
| 3 | 74.62 | 31.5 QP | 40.0 | -8.5 | 1.00 V | 226 | 44.3 | -12.8 |
| 4 | 127.11 | 34.4 QP | 43.5 | -9.1 | 1.00 V | 16 | 45.3 | -10.9 |
| 5 | 288.49 | 28.8 QP | 46.0 | -17.2 | 2.00 V | 331 | 36.4 | -7.6 |
| 6 | 383.76 | 27.2 QP | 46.0 | -18.8 | 1.00 V | 93 | 33.0 | -5.8 |

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

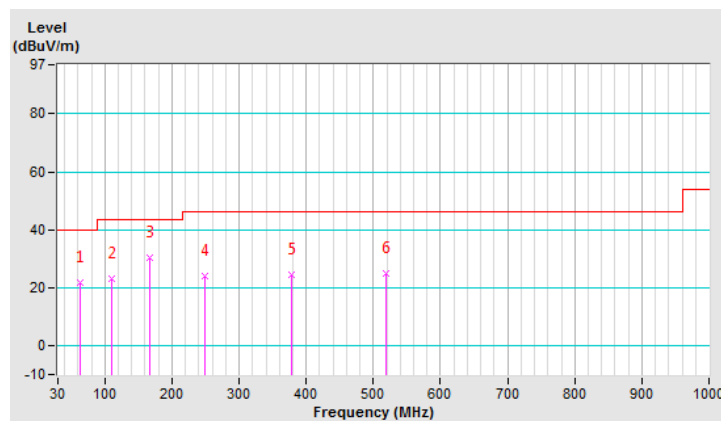


| | | | |
|-----------------|--------------|----------------------|-----------------|
| CHANNEL | TX Channel 0 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz | | |
| TEST MODE | B | | |

| 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 | 62.98 | 21.9 QP | 40.0 | -18.1 | 1.00 H | 334 | 32.4 | -10.5 |
| 2 | 110.51 | 23.1 QP | 43.5 | -20.4 | 1.00 H | 313 | 35.5 | -12.4 |
| 3 | 167.74 | 30.4 QP | 43.5 | -13.1 | 1.00 H | 83 | 39.8 | -9.4 |
| 4 | 248.25 | 24.2 QP | 46.0 | -21.8 | 1.00 H | 30 | 34.0 | -9.8 |
| 5 | 378.23 | 24.4 QP | 46.0 | -21.6 | 1.00 H | 228 | 31.0 | -6.6 |
| 6 | 519.85 | 25.0 QP | 46.0 | -21.0 | 1.00 H | 311 | 29.2 | -4.2 |

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report

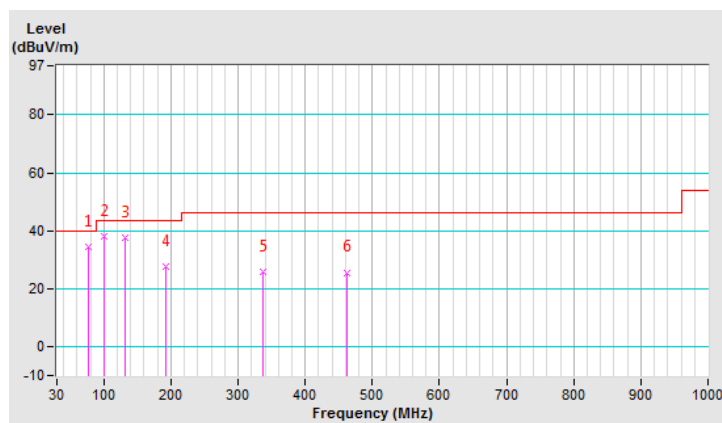


| | | | |
|-----------------|--------------|-------------------|-----------------|
| CHANNEL | TX Channel 0 | DETECTOR FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | 9kHz ~ 1GHz | | |
| TEST MODE | B | | |

| 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 | 76.56 | 34.6 QP | 40.0 | -5.4 | 1.00 V | 335 | 47.9 | -13.3 |
| 2 | 100.81 | 38.2 QP | 43.5 | -5.3 | 1.00 V | 14 | 51.7 | -13.5 |
| 3 | 130.88 | 37.6 QP | 43.5 | -5.9 | 1.00 V | 351 | 48.3 | -10.7 |
| 4 | 192.96 | 27.8 QP | 43.5 | -15.7 | 1.00 V | 25 | 39.3 | -11.5 |
| 5 | 336.52 | 25.8 QP | 46.0 | -20.2 | 1.00 V | 14 | 33.0 | -7.2 |
| 6 | 461.65 | 25.6 QP | 46.0 | -20.4 | 1.00 V | 102 | 30.7 | -5.1 |

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz
4. Margin value = Emission Level – Limit value
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

| Frequency (MHz) | Conducted Limit (dBuV) | |
|-----------------|------------------------|---------|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30.0 | 60 | 50 |

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

| Description & Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|---|--------------------------|----------------|---------------|---------------|
| Test Receiver ROHDE & SCHWARZ | ESCI | 100613 | Dec. 10, 2018 | Dec. 09, 2019 |
| RF signal cable Woken | 5D-FB | Cable-cond1-01 | Sep. 05, 2018 | Sep. 04, 2019 |
| LISN ROHDE & SCHWARZ (EUT) | ENV216 | 101826 | Feb. 26, 2018 | Feb. 25, 2019 |
| | | | Feb. 21, 2019 | Feb. 20, 2020 |
| LISN ROHDE & SCHWARZ (Peripheral) | ESH3-Z5 | 100311 | Aug. 19, 2018 | Aug. 18, 2019 |
| Software ADT | BV ADT_Conc_ V7.3.7.4 | NA | NA | NA |

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 Shielded Room 1.

3. The VCCI Site Registration No. is C-12040.

4.2.3 Test Procedures

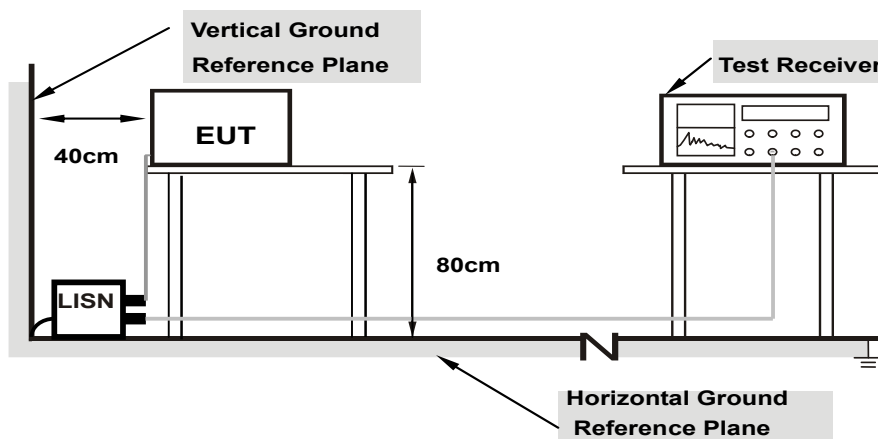
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

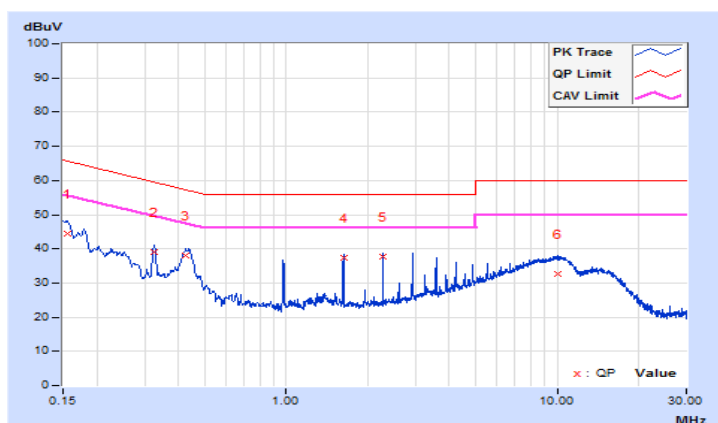
4.2.7 Test Results

| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-----------|----------|-------------------|--------------------------------|
| Test Mode | A | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----------|----------------|-------------------------|----------------------------|--------------|-----------------------------|--------------|--------------------|--------------|----------------|--------------|
| | | | | | | | | | | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15675 | 10.07 | 34.43 | 16.58 | 44.50 | 26.65 | 65.63 | 55.63 | -21.13 | -28.98 |
| 2 | 0.32569 | 10.07 | 28.94 | 28.03 | 39.01 | 38.10 | 59.56 | 49.56 | -20.55 | -11.46 |
| 3 | 0.42635 | 10.07 | 27.90 | 20.43 | 37.97 | 30.50 | 57.32 | 47.32 | -19.35 | -16.82 |
| 4 | 1.62604 | 10.09 | 27.19 | 26.94 | 37.28 | 37.03 | 56.00 | 46.00 | -18.72 | -8.97 |
| 5 | 2.27625 | 10.10 | 27.58 | 27.30 | 37.68 | 37.40 | 56.00 | 46.00 | -18.32 | -8.60 |
| 6 | 10.00725 | 10.27 | 22.46 | 15.91 | 32.73 | 26.18 | 60.00 | 50.00 | -27.27 | -23.82 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

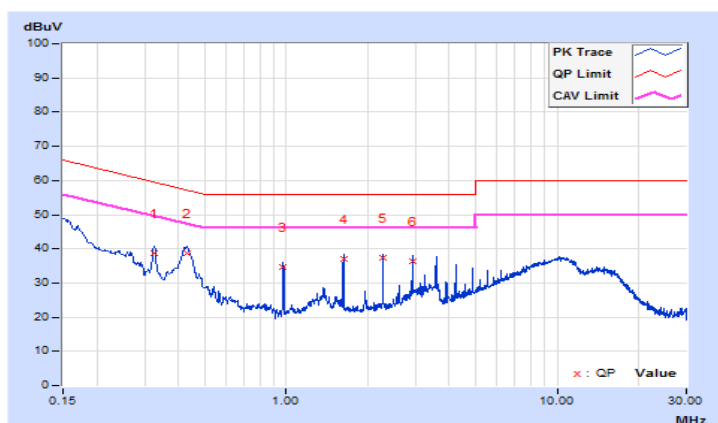


| | | | |
|-----------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | A | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | | | | | | | | | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.32483 | 10.13 | 28.55 | 27.81 | 38.68 | 37.94 | 59.58 | 49.58 | -20.90 | -11.64 |
| 2 | 0.42860 | 10.13 | 28.47 | 20.75 | 38.60 | 30.88 | 57.28 | 47.28 | -18.68 | -16.40 |
| 3 | 0.97575 | 10.14 | 24.65 | 24.53 | 34.79 | 34.67 | 56.00 | 46.00 | -21.21 | -11.33 |
| 4 | 1.62604 | 10.15 | 26.77 | 26.63 | 36.92 | 36.78 | 56.00 | 46.00 | -19.08 | -9.22 |
| 5 | 2.27625 | 10.16 | 27.19 | 27.01 | 37.35 | 37.17 | 56.00 | 46.00 | -18.65 | -8.83 |
| 6 | 2.92650 | 10.18 | 26.29 | 25.83 | 36.47 | 36.01 | 56.00 | 46.00 | -19.53 | -9.99 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

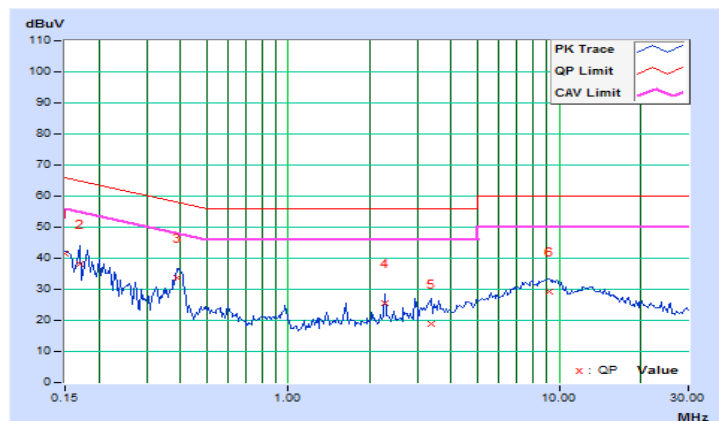


| | | | |
|-----------|----------|-------------------|--------------------------------|
| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | B | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | | | | | | | | | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15000 | 9.69 | 31.71 | 18.82 | 41.40 | 28.51 | 66.00 | 56.00 | -24.60 | -27.49 |
| 2 | 0.16953 | 9.69 | 28.53 | 16.40 | 38.22 | 26.09 | 64.98 | 54.98 | -26.76 | -28.89 |
| 3 | 0.38828 | 9.68 | 23.84 | 16.62 | 33.52 | 26.30 | 58.10 | 48.10 | -24.58 | -21.80 |
| 4 | 2.27734 | 9.71 | 15.92 | 15.27 | 25.63 | 24.98 | 56.00 | 46.00 | -30.37 | -21.02 |
| 5 | 3.36719 | 9.73 | 9.22 | 2.39 | 18.95 | 12.12 | 56.00 | 46.00 | -37.05 | -33.88 |
| 6 | 9.16406 | 9.85 | 19.26 | 13.88 | 29.11 | 23.73 | 60.00 | 50.00 | -30.89 | -26.27 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

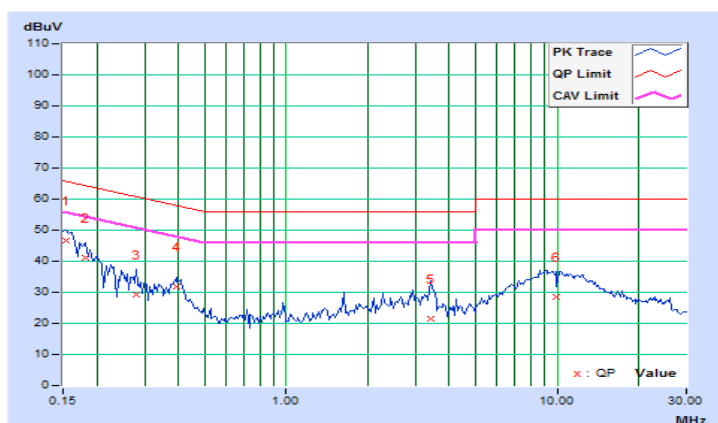


| | | | |
|-----------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | B | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | | | | | | | | | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15391 | 9.66 | 36.92 | 20.88 | 46.58 | 30.54 | 65.79 | 55.79 | -19.21 | -25.25 |
| 2 | 0.18125 | 9.66 | 31.62 | 16.76 | 41.28 | 26.42 | 64.43 | 54.43 | -23.15 | -28.01 |
| 3 | 0.27891 | 9.66 | 19.51 | 7.97 | 29.17 | 17.63 | 60.85 | 50.85 | -31.68 | -33.22 |
| 4 | 0.39219 | 9.65 | 22.25 | 15.87 | 31.90 | 25.52 | 58.02 | 48.02 | -26.12 | -22.50 |
| 5 | 3.41016 | 9.71 | 11.93 | 2.16 | 21.64 | 11.87 | 56.00 | 46.00 | -34.36 | -34.13 |
| 6 | 9.97656 | 9.85 | 18.79 | 13.20 | 28.64 | 23.05 | 60.00 | 50.00 | -31.36 | -26.95 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



5 Pictures of Test Arrangements

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

Appendix – Information of 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 FCC recognized accredited test firms and 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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Hsin Chu EMC/RF/Telecom Lab

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Email: service.adt@tw.bureauveritas.com

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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