

FCC Test Report

(Co-located)

Report No.: RFBBGM-WTW-P22090842-7

FCC ID: WIYS1E2001

Test Model: S1E2

Received Date: Sep. 26, 2022

Test Date: Oct. 31, 2022

Issued Date: Nov. 18, 2022

Applicant: CASTLES TECHNOLOGY CO., LTD.

Address: 6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 23143, TAIWAN (R. O. C.)

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

Test Location: No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, Taiwan

**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

| Issue No. | Description | Date Issued |
|------------------------|------------------|---------------|
| RFBBGM-WTW-P22090842-7 | Original Release | Nov. 18, 2022 |

1 Certificate of Conformity

Product: POS Terminal

Brand:  **CASTLES
TECHNOLOGY**

Test Model: S1E2


Sample Status: Identical Prototype

Applicant: CASTLES TECHNOLOGY CO., LTD.

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
47 CFR FCC Part 15, Subpart E (Section 15.407)
47 CFR FCC Part 15, Subpart C (Section 15.225)
47 CFR FCC Part 15, Subpart C (Section 15.215)
ANSI C63.10-2013
FCC Part 22, Subpart H
FCC Part 24, Subpart E
FCC Part 27, Subpart C, H, F, L
FCC Part 2

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 :  , **Date:** Nov. 18, 2022
Vera Huang / Specialist

Approved by :  , **Date:** Nov. 18, 2022
Jeremy Lin / Project Engineer

2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart C (Section 15.247) 47 CFR FCC Part 15, Subpart E (Section 15.407) 47 CFR FCC Part 15, Subpart C (Section 15.225, 15.215) FCC Part 22, Subpart H FCC Part 24, Subpart E FCC Part 27, Subpart C, H, F, L FCC Part 2 | | | |
|---|---|--------|--|
| FCC Clause | Test Item | Result | Remarks |
| 15.205 / 15.209 / 15.247(d) / 15.225 (d) / 15.407(b) (1/2/3/4(i/ii)/9) | Radiated Emissions and Band Edge Measurement | Pass | Meet the requirement of limit. Minimum passing margin is -3.2 dB at 2390.00 MHz. |
| 2.1053 22.917 24.238 27.53(h) | Radiated Spurious Emissions | Pass | Meet the requirement of limit. Minimum passing margin is -20.42 dB at 3490.00 MHz. |

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) (±) |
|--------------------------------|------------------|-----------------------------------|
| Radiated Emissions up to 1 GHz | 30MHz ~ 200MHz | 3.86 dB |
| | 200MHz ~ 1000MHz | 3.87 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 | POS Terminal | |
| Brand |  | |
| Test Model | S1E2 | |
| Status of EUT | Identical Prototype | |
| Power Supply Rating | 5.0 Vdc (adapter) 3.75 Vdc (Li-ion battery) | |
| Modulation Type | WLAN | CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM |
| | BT | GFSK, $\pi/4$ -DQPSK, 8DPSK |
| | WCDMA | BPSK (Uplink) |
| | HSDPA/DC-HSDPA | QPSK (Uplink) |
| | HSUPA | QPSK (Uplink) |
| | HSPA+ | 16QAM (16QAM Uplink is not supported) |
| | DC-HSDPA | 64QAM |
| | LTE | QPSK, 16QAM |
| | NFC | ASK |
| Data Rate | WLAN | 802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0 Mbps 802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps 802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n: up to 150Mbps |
| | BT | 1/2/3 Mbps |
| | NFC | Type A: 106 kbit/s Type B: 106 kbit/s Type F: 212 kbit/s, 424 kbit/s |
| Operating Frequency | WLAN | 2412 ~ 2462 MHz 5180 ~ 5240 MHz, 5745 ~ 5825 MHz |
| | BT | 2402 ~ 2480 MHz |
| | WCDMA Band 2 | 1852.4 ~ 1907.6 MHz |
| | WCDMA Band 4 | 1712.4 ~ 1752.6 MHz |
| | WCDMA Band 5 | 826.4 ~ 846.6 MHz |
| | LTE Band 2 (Channel Bandwidth: 1.4 MHz) | 1850.7 ~ 1909.3 MHz |
| | LTE Band 2 (Channel Bandwidth: 3 MHz) | 1851.5 ~ 1908.5 MHz |
| | LTE Band 2 (Channel Bandwidth: 5 MHz) | 1852.5 ~ 1907.5 MHz |
| | LTE Band 2 (Channel Bandwidth: 10 MHz) | 1855.0 ~ 1905.0 MHz |
| | LTE Band 2 (Channel Bandwidth: 15 MHz) | 1857.5 ~ 1902.5 MHz |
| LTE Band 2 (Channel Bandwidth: 20 MHz) | 1860.0 ~ 1900.0 MHz | |

| | | |
|---|--|--|
| Operating Frequency | LTE Band 4 (Channel Bandwidth: 1.4 MHz) | 1710.7 ~ 1754.3 MHz |
| | LTE Band 4 (Channel Bandwidth: 3 MHz) | 1711.5 ~ 1753.5 MHz |
| | LTE Band 4 (Channel Bandwidth: 5 MHz) | 1712.5 ~ 1752.5 MHz |
| | LTE Band 4 (Channel Bandwidth: 10 MHz) | 1715.0 ~ 1750.0 MHz |
| | LTE Band 4 (Channel Bandwidth: 15 MHz) | 1717.5 ~ 1747.5 MHz |
| | LTE Band 4 (Channel Bandwidth: 20 MHz) | 1720.0 ~ 1745.0 MHz |
| | LTE Band 5 (Channel Bandwidth: 1.4 MHz) | 824.7 ~ 848.3 MHz |
| | LTE Band 5 (Channel Bandwidth: 3 MHz) | 825.5 ~ 847.5 MHz |
| | LTE Band 5 (Channel Bandwidth: 5 MHz) | 826.5 ~ 846.5 MHz |
| | LTE Band 5 (Channel Bandwidth: 10 MHz) | 829 ~ 844 MHz |
| | LTE Band 7 (Channel Bandwidth: 5 MHz) | 2502.5 ~ 2567.5 MHz |
| | LTE Band 7 (Channel Bandwidth: 10 MHz) | 2505 ~ 2565 MHz |
| | LTE Band 7 (Channel Bandwidth: 15 MHz) | 2507.5 ~ 2562.5 MHz |
| | LTE Band 7 (Channel Bandwidth: 20 MHz) | 2510 ~ 2560 MHz |
| | LTE Band 12 (Channel Bandwidth: 1.4 MHz) | 699.7 ~ 715.3 MHz |
| | LTE Band 12 (Channel Bandwidth: 3 MHz) | 700.5 ~ 714.5 MHz |
| | LTE Band 12 (Channel Bandwidth: 5 MHz) | 701.5 ~ 713.5 MHz |
| | LTE Band 12 (Channel Bandwidth: 10 MHz) | 704.0 ~ 711.0 MHz |
| | LTE Band 13 (Channel Bandwidth: 5 MHz) | 779.5 ~ 784.5 MHz |
| | LTE Band 13 (Channel Bandwidth: 10 MHz) | 782.0 MHz |
| LTE Band 17 (Channel Bandwidth: 5 MHz) | 706.5 ~ 713.5 MHz | |
| LTE Band 17 (Channel Bandwidth: 10 MHz) | 709.0 ~ 711.0 MHz | |
| NFC | 13.56 MHz | |
| Number of Channel | WLAN | 2412 ~ 2462 MHz 11 for 802.11b, 802.11g, 802.11n (HT20) 7 for 802.11n (HT40) 5180 ~ 5240 MHz: 4 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40) 5745 ~ 5825 MHz: 5 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40) |
| | BT | 79 |
| | NFC | 1 |



| | |
|----------------------------|------------------------|
| Antenna Type | Refer to Note as below |
| Antenna Connector | N/A |
| Accessory Device | Refer to Note as below |
| Data Cable Supplied | Refer to Note as below |

Note:

- The EUT provides 1 completed transmitter and 1 receiver.

| Modulation Mode | Tx Function |
|-----------------|-------------|
| 802.11b | 1TX |
| 802.11g | 1TX |
| 802.11a | 1TX |
| 802.11n (HT20) | 1TX |
| 802.11n (HT40) | 1TX |

- The EUT contains following accessory devices.

| Product | Brand | Model | Description |
|-----------|---|------------|--|
| Adapter |  CASTLES TECHNOLOGY | 1A52-UB52A | I/P: 100-240 Vac, 50-60 Hz, 0.3 A O/P: 5 Vdc, 2 A |
| Battery |  CASTLES TECHNOLOGY | S1E | 3.75 Vdc |
| USB Cable | N/A | N/A | 2m shielded cable w/o core |

- The antenna information is listed as below.

| WWAN Antenna | | | | | | | | | | |
|--------------|--------------|--------|--------|-------|--------|--------|-------|--------|--------|--------|
| Ant. Type | PIFA antenna | | | | | | | | | |
| Band | WCDMA | | | LTE | | | | | | |
| | II | IV | V | 2 | 4 | 5 | 7 | 12 | 13 | 17 |
| Gain (dBi) | 0.077 | -6.906 | -0.985 | 0.077 | -6.906 | -0.985 | 2.622 | -1.054 | -0.031 | -1.054 |

| WLAN Antenna | | | |
|----------------|--------------------|-----------------|-----------------|
| Antenna Type | Antenna Gain (dBi) | | |
| | BT/WLAN 2.4 GHz | 5180 ~ 5240 MHz | 5745 ~ 5825 MHz |
| Dipole antenna | 0.611 | 0.658 | 1.612 |

- Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.
- The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.
- The EUT contains certified smart module with FCC ID: WIYSLM758A.
- BT & WWAN & NFC technology can transmit at same time.
- WLAN 2.4G & WWAN & NFC technology can transmit at same time.
- WLAN 5G & WWAN & NFC technology can transmit at same time.

3.2 Description of Test Modes

For 2.4G

11 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 1 | 2412 | 7 | 2442 |
| 2 | 2417 | 8 | 2447 |
| 3 | 2422 | 9 | 2452 |
| 4 | 2427 | 10 | 2457 |
| 5 | 2432 | 11 | 2462 |
| 6 | 2437 | | |

7 channels are provided for 802.11n (HT40):

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 3 | 2422 | 7 | 2442 |
| 4 | 2427 | 8 | 2447 |
| 5 | 2432 | 9 | 2452 |
| 6 | 2437 | | |

For 5180 ~ 5240 MHz

4 channels are provided for 802.11a, 802.11n (HT20):

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 36 | 5180 | 44 | 5220 |
| 40 | 5200 | 48 | 5240 |

2 channels are provided for 802.11n (HT40):

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 38 | 5190 | 46 | 5230 |

For 5745 ~ 5825 MHz

5 channels are provided for 802.11a, 802.11n (HT20):

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 149 | 5745 | 161 | 5805 |
| 153 | 5765 | 165 | 5825 |
| 157 | 5785 | | |

2 channels are provided for 802.11n (HT40):

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 151 | 5755 | 159 | 5795 |

BT EDR

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 | | |

NFC

1 channel was provided to this EUT:

| Channel | Frequency (MHz) |
|---------|-----------------|
| 1 | 13.56 |

3.2.1 Test Mode Applicability and Tested Channel Detail

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

Where RE \geq 1G: Radiated Emission above 1GHz & Bandedge Measurement RE<1G: Radiated Emission below 1GHz

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

Radiated Emission Test (Above 1 GHz):

- 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 | Mode | Freq. Range (MHz) | Available Channel | Tested Channel | Modulation Technology |
|--------------------|------------------------------|-------------------|---------------------|----------------|-----------------------|
| 1 | BT EDR + WCDMA Band 5 + NFC | 2402 ~ 2480 | 0, 39, 78 | 39 + 4233 + 1 | GFSK |
| | | 826.4 ~ 846.6 | 4132, 4182, 4233 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 2 | BT EDR + WCDMA Band 2 + NFC | 2402 ~ 2480 | 0, 39, 78 | 39 + 9538 + 1 | GFSK |
| | | 1852.4 ~ 1907.6 | 9262, 9400, 9538 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 3 | BT EDR + LTE Band 4 + NFC | 2402 ~ 2480 | 0, 39, 78 | 39 + 20300 + 1 | GFSK |
| | | 1710.7 ~ 1754.3 | 20050, 20175, 20300 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 4 | 802.11g + WCDMA Band 5 + NFC | 2412 ~ 2462 | 1, 6, 11 | 1 + 4233 + 1 | OFDM |
| | | 826.4 ~ 846.6 | 4132, 4182, 4233 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 5 | 802.11g + WCDMA Band 2 + NFC | 2412 ~ 2462 | 1, 6, 11 | 1 + 9538 + 1 | OFDM |
| | | 1852.4 ~ 1907.6 | 9262, 9400, 9538 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 6 | 802.11g + LTE Band 4 + NFC | 2412 ~ 2462 | 1, 6, 11 | 1 + 20300 + 1 | OFDM |
| | | 1710.7 ~ 1754.3 | 20050, 20175, 20300 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 7 | 802.11a + WCDMA Band 5 + NFC | 5180-5240 | 36, 40, 48 | 36 + 4233 + 1 | OFDM |
| | | 826.4 ~ 846.6 | 4132, 4182, 4233 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 8 | 802.11a + WCDMA Band 2 + NFC | 5180-5240 | 36, 40, 48 | 36 + 9538 + 1 | OFDM |
| | | 1852.4 ~ 1907.6 | 9262, 9400, 9538 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 9 | 802.11a + LTE Band 4 + NFC | 5180-5240 | 36, 40, 48 | 36 + 20300 + 1 | OFDM |
| | | 1710.7 ~ 1754.3 | 20050, 20175, 20300 | | WCDMA |
| | | 13.56 | 1 | | ASK |

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 | Mode | Freq. Range (MHz) | Available Channel | Tested Channel | Modulation Technology |
|--------------------|------------------------------|-------------------|---------------------|----------------|-----------------------|
| 1 | BT EDR + WCDMA Band 5 + NFC | 2402 ~ 2480 | 0, 39, 78 | 39 + 4233 + 1 | GFSK |
| | | 826.4 ~ 846.6 | 4132, 4182, 4233 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 2 | BT EDR + WCDMA Band 2 + NFC | 2402 ~ 2480 | 0, 39, 78 | 39 + 9538 + 1 | GFSK |
| | | 1852.4 ~ 1907.6 | 9262, 9400, 9538 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 3 | BT EDR + LTE Band 4 + NFC | 2402 ~ 2480 | 0, 39, 78 | 39 + 20300 + 1 | GFSK |
| | | 1710.7 ~ 1754.3 | 20050, 20175, 20300 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 4 | 802.11g + WCDMA Band 5 + NFC | 2412 ~ 2462 | 1, 6, 11 | 1 + 4233 + 1 | OFDM |
| | | 826.4 ~ 846.6 | 4132, 4182, 4233 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 5 | 802.11g + WCDMA Band 2 + NFC | 2412 ~ 2462 | 1, 6, 11 | 1 + 9538 + 1 | OFDM |
| | | 1852.4 ~ 1907.6 | 9262, 9400, 9538 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 6 | 802.11g + LTE Band 4 + NFC | 2412 ~ 2462 | 1, 6, 11 | 1 + 20300 + 1 | OFDM |
| | | 1710.7 ~ 1754.3 | 20050, 20175, 20300 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 7 | 802.11a + WCDMA Band 5 + NFC | 5180-5240 | 36, 40, 48 | 36 + 4233 + 1 | OFDM |
| | | 826.4 ~ 846.6 | 4132, 4182, 4233 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 8 | 802.11a + WCDMA Band 2 + NFC | 5180-5240 | 36, 40, 48 | 36 + 9538 + 1 | OFDM |
| | | 1852.4 ~ 1907.6 | 9262, 9400, 9538 | | WCDMA |
| | | 13.56 | 1 | | ASK |
| 9 | 802.11a + LTE Band 4 + NFC | 5180-5240 | 36, 40, 48 | 36 + 20300 + 1 | OFDM |
| | | 1710.7 ~ 1754.3 | 20050, 20175, 20300 | | WCDMA |
| | | 13.56 | 1 | | ASK |

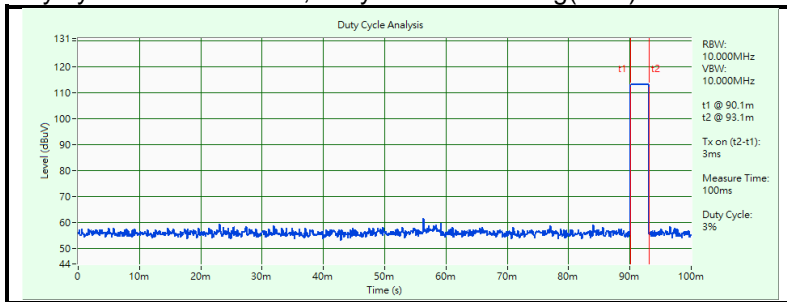
Test Condition:

| Applicable to | Environmental Conditions | Input Power (System) | Tested by |
|---------------|--------------------------|----------------------|-----------|
| RE≥1G | 24 deg. C, 69 % RH | 120 Vac, 60 Hz | Titan Hsu |
| RE<1G | 24 deg. C, 69 % RH | 120 Vac, 60 Hz | Titan Hsu |

3.3 Duty Cycle of Test Signal

BT

Duty cycle = $3/100 = 0.03$, Duty factor = $20 * \log(0.03) = -30.5$



WLAN

Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

Duty cycle of test signal is $< 98\%$, duty factor shall be considered.

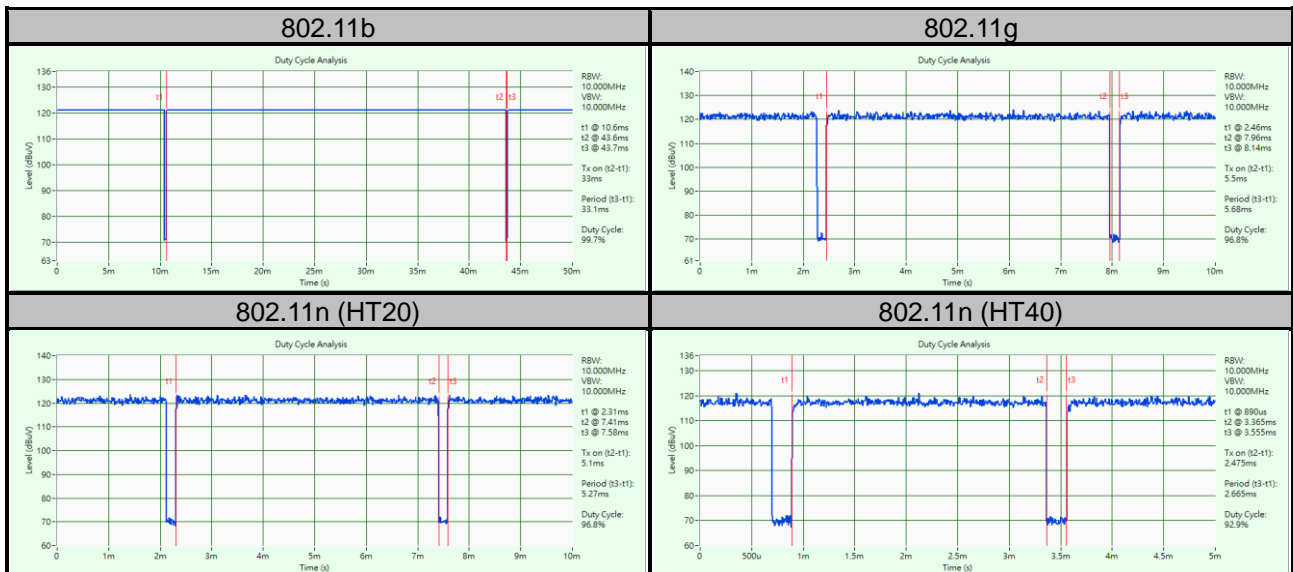
WLAN 2.4G:

802.11b: Duty cycle = $33/33.1 = 0.997$

802.11g: Duty cycle = $5.5/5.68 = 0.968$, Duty factor = $10 * \log(1/0.968) = 0.14$

802.11n (HT20): Duty cycle = $5.1/5.27 = 0.968$, Duty factor = $10 * \log(1/0.968) = 0.14$

802.11n (HT40): Duty cycle = $2.475/2.665 = 0.929$, Duty factor = $10 * \log(1/0.929) = 0.32$

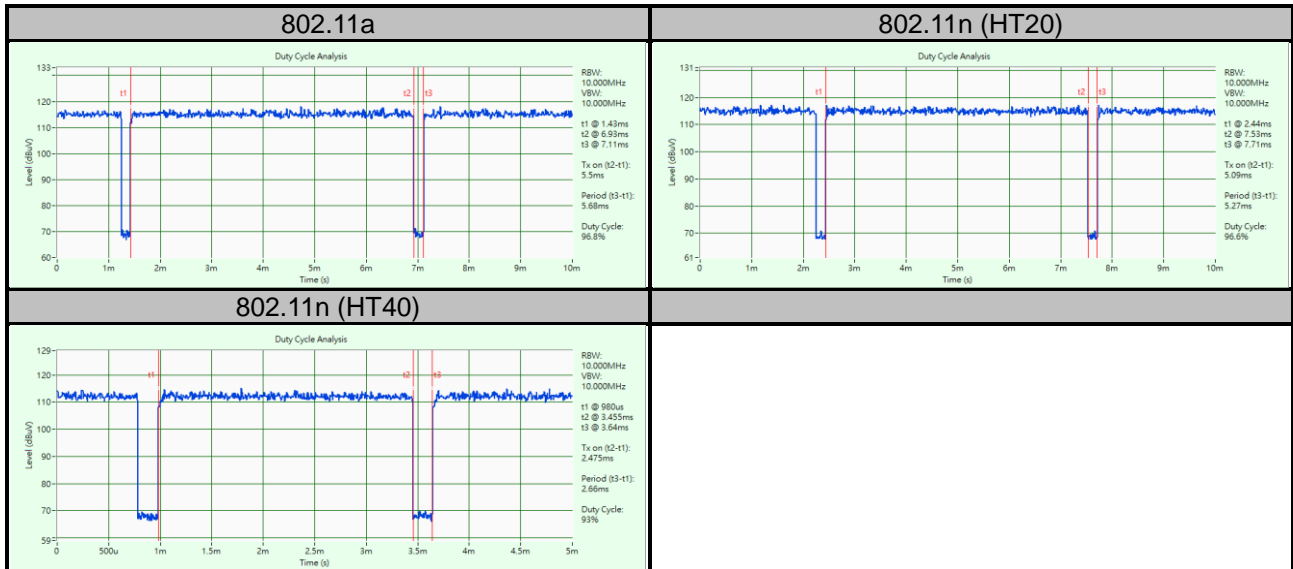


WLAN 5G:

802.11a: Duty cycle = 5.5/5.68 = 0.968, Duty factor = $10 * \log(1/0.968) = 0.14$


802.11n (HT20): Duty cycle = 5.09/5.27 = 0.966, Duty factor = $10 * \log(1/0.966) = 0.15$

802.11n (HT40): Duty cycle = 2.475/2.66 = 0.930, Duty factor = $10 * \log(1/0.930) = 0.31$



3.4 Description of Support Units

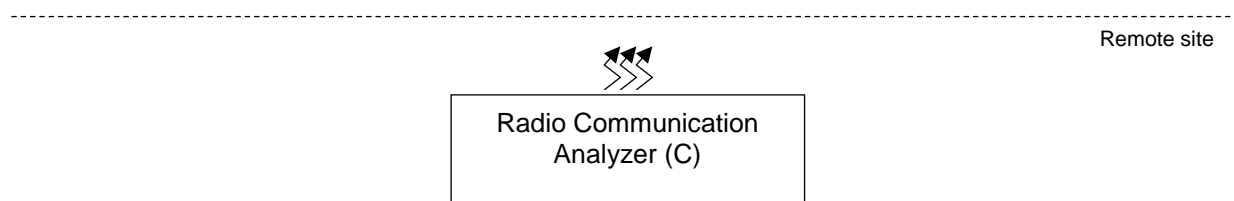
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| No. | Product | Brand | Model No. | Serial No. | FCC ID |
|-----|------------------------------|--|-----------|------------|--------|
| A | Smart module |  CASTLES TECHNOLOGY | SLM758 | N/A | N/A |
| B | Earphone | APPLE | MB77PFEB | N/A | N/A |
| C | Radio Communication Analyzer | Anritsu | MT8821C | 6261806803 | N/A |

Note: Items C acted as communication partners to transfer data.

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|--------------|------|------------|--------------------|--------------|--------------------|
| 1. | USB Cable | 1 | 2 | Y | 0 | Provided by client |
| 2. | Audio Cable | 1 | 1.2 | N | 0 | Provided by Lab |

3.4.1 Configuration of System under Test



3.5 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 and references:

Test Standard:

FCC Part 15, Subpart E (15.407)

FCC Part 15, Subpart C (15.247)

FCC Part 15, Subpart C (15.225)

FCC Part 15, Subpart C (15.215)

ANSI C63.10-2013

FCC 47 CFR Part 2

FCC 47 CFR Part 22

FCC 47 CFR Part 24

FCC 47 CFR Part 27

ANSI 63.26-2015

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

References Test Guidance:

KDB 558074 D01 15.247 Meas Guidance v05r02

KDB 414788 D01 Radiated Test Site v01r01

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

For WLAN & BT & NFC

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 20 dB 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 1000 MHz, 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 20 dB under any condition of modulation.

Limits of Unwanted Emission Out of the Restricted Bands

| Applicable To | | Limit | |
|--|---|---|---|
| 789033 D02 General UNII Test Procedures New Rules v02r01 | | Field Strength at 3 m | |
| | | PK: 74 (dBµV/m) | AV: 54 (dBµV/m) |
| Frequency Band | Applicable To | EIRP Limit | Equivalent Field Strength at 3 m |
| 5150~5250 MHz | 15.407(b)(1) | PK: -27 (dBm/MHz) | PK: 68.2 (dBµV/m) |
| 5250~5350 MHz | 15.407(b)(2) | | |
| 5470~5725 MHz | 15.407(b)(3) | | |
| 5725~5850 MHz | <input checked="" type="checkbox"/> 15.407(b)(4)(i) | PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4 | PK: 68.2 (dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8 (dBµV/m) *3 PK:122.2 (dBµV/m) *4 |
| | <input type="checkbox"/> 15.407(b)(4)(ii) | Emission limits in section 15.247(d) | |
| <p>*1 beyond 75 MHz or more above of the band edge.</p> <p>*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.</p> <p>*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.</p> <p>*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> | | | |

Note:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

For WWAN

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. The emission limit is equal to -13 dBm.

4.1.2 Test Instruments

| Description & Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|--|---------------------------------------|---------------------------------|---------------|---------------|
| Test Receiver ROHDE & SCHWARZ | ESR3 | 102579 | 2022/07/01 | 2023/06/30 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSU43 | 101261 | 2022/04/11 | 2023/04/10 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-171 | 2022/10/26 | 2023/10/25 |
| HORN Antenna SCHWARZBECK | 9120D | 209 | 2021/11/14 | 2022/11/13 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | BBHA9170243 | 2021/11/14 | 2022/11/13 |
| Loop Antenna TESEQ | HLA 6121 | 45745 | 2022/07/27 | 2023/07/26 |
| Preamplifier Agilent (Below 1GHz) | 8447D | 2944A10738 | 2022/07/09 | 2023/07/08 |
| Preamplifier Agilent (Above 1GHz) | 8449B | 3008A02465 | 2022/03/19 | 2023/03/18 |
| RF Coaxial Cable WOKEN With 5dB PAD | 8D-FB | Cable-CH3-01 | 2022/05/14 | 2023/05/13 |
| RF signal cable HUBER+SUHNER | SUCOFLEX 104 | Cable-CH3-03 (223653/4) | 2022/07/09 | 2023/07/08 |
| RF signal cable HUBER+SUHNER& EMCI | SUCOFLEX 104&EMC104- SM-SM-8000 | Cable-CH3-03 (309224+170907) | 2022/07/09 | 2023/07/08 |
| Software BV ADT | ADT_Radiated_ V7.6.15.9.5 | NA | NA | NA |
| Antenna Tower inn-co GmbH | MA 4000 | 013303 | NA | NA |
| Antenna Tower Controller BV ADT | AT100 | AT93021702 | NA | NA |
| Turn Table BV ADT | TT100 | TT93021702 | NA | NA |
| Turn Table Controller BV ADT | SC100 | SC93021702 | NA | NA |
| Boresight Antenna Fixture | FBA-01 | FBA-SIP01 | NA | NA |
| Radio Communication Analyzer Anritsu | MT8821C | 6261806803 | Feb. 16, 2022 | Feb. 15, 2023 |

- 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 3.

4.1.3 Test Procedures

For WLAN & BT & NFC

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

1. 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.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. 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.
4. 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.
5. 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.
6. 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. For WLAN: 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. For BT: Fundamental frequency and band edge & harmonic:
The average value of fundamental frequency is :average value = peak value + $20 \cdot \log(\text{Duty cycle})$
where the duty cycle correction factor is calculated from following formula:
 $20 \cdot \log(\text{Duty cycle}) = 20 \cdot \log(3 \text{ ms}/100) = -30.5 \text{ dB}$, please refer to the plotted duty (see section 3.3)
5. All modes of operation were investigated and the worst-case emissions are reported.

For WWAN

1. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) 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.
2. 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.
3. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
4. Following C63.26 section 5.5 and 5.2.7
 $EIRP \text{ (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
 $ERP \text{ (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

NOTE:

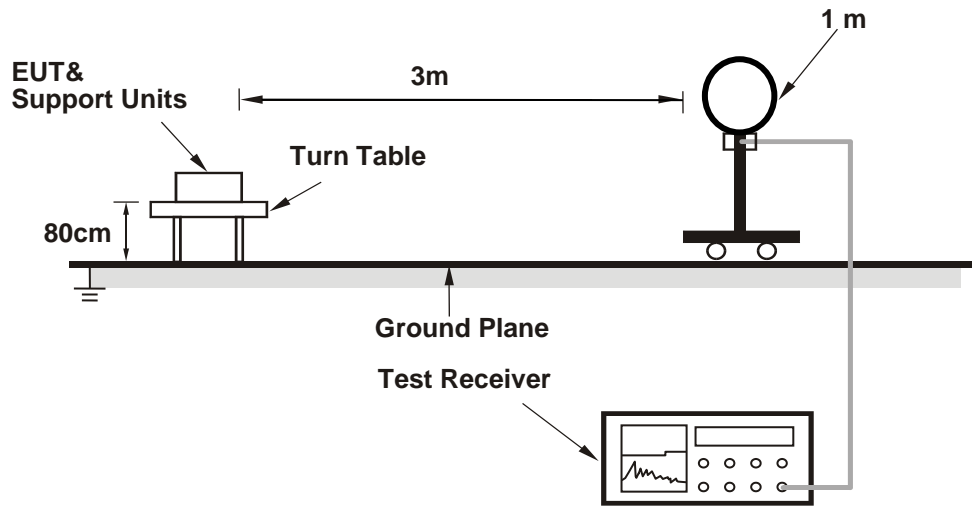
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

4.1.4 Deviation from Test Standard

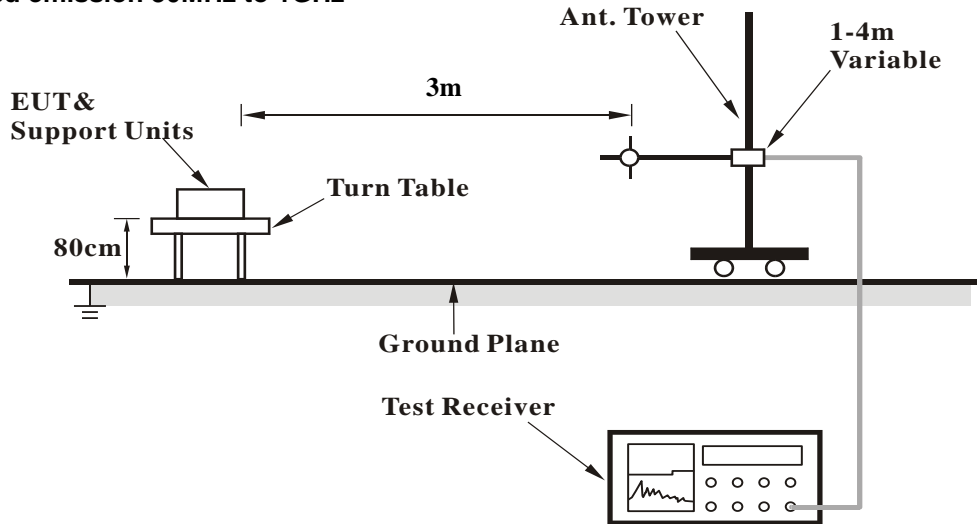
No deviation.

4.1.5 Test Setup

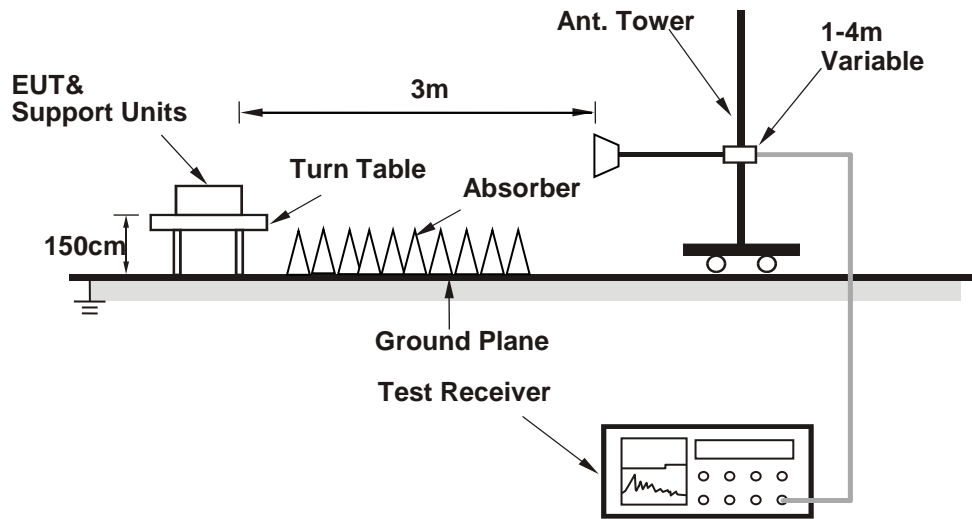
For Radiated emission below 30MHz



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

1. Placed the EUT on the testing table.
2. Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Mode 1

Above 1 GHz Data :

BT EDR, Ch39 + WCDMA Band 5, Ch 4233 + NFC, Ch1

| | | | |
|-----------------|----------------|-------------------|---------------------------|
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function | Peak (PK) Average (AV) |
|-----------------|----------------|-------------------|---------------------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 103.1 PK | | | 1.22 H | 162 | 68.2 | 34.9 |
| 2 | *2441.00 | 72.6 AV | | | 1.22 H | 162 | 37.7 | 34.9 |
| 3 | 4882.00 | 52.1 PK | 74.0 | -21.9 | 2.25 H | 188 | 38.5 | 13.6 |
| 4 | 4882.00 | 21.6 AV | 54.0 | -32.4 | 2.25 H | 188 | 8.0 | 13.6 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 98.1 PK | | | 1.13 V | 288 | 63.2 | 34.9 |
| 2 | *2441.00 | 67.6 AV | | | 1.13 V | 288 | 32.7 | 34.9 |
| 3 | 4882.00 | 51.6 PK | 74.0 | -22.4 | 2.45 V | 185 | 38.0 | 13.6 |
| 4 | 4882.00 | 21.1 AV | 54.0 | -32.9 | 2.45 V | 185 | 7.5 | 13.6 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. For Fundamental frequency and band edge & harmonic:
The average value of fundamental frequency is :average value = peak value + 20*log(Duty cycle) where the duty cycle correction factor is calculated from following formula:
 $20 \cdot \text{Log}(\text{Duty cycle}) = 20 \cdot \text{log}(3 \text{ ms}/100) = -30.5 \text{ dB}$, please refer to the plotted duty (see section 3.3)

| | |
|-----------------|----------------|
| Frequency Range | 1 GHz ~ 18 GHz |
|-----------------|----------------|

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 1693.20 | -43.99 | -13.00 | -30.99 | 2.93 H | 241 | 55.16 | -99.15 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 1693.20 | -41.97 | -13.00 | -28.97 | 1.95 V | 122 | 57.18 | -99.15 |

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

Below 1GHz data:

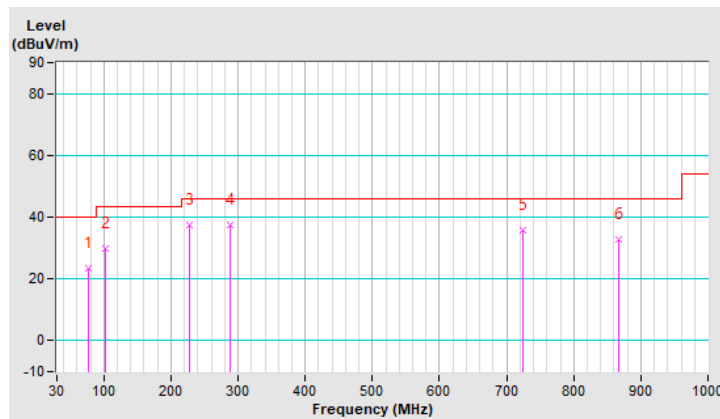
BT EDR, Ch39 + WCDMA Band 5, Ch 4233 + NFC, Ch1

| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (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 | 23.3 QP | 40.0 | -16.7 | 1.00 H | 10 | 35.4 | -12.1 |
| 2 | 101.78 | 29.7 QP | 43.5 | -13.8 | 1.49 H | 276 | 42.8 | -13.1 |
| 3 | 227.88 | 37.5 QP | 46.0 | -8.5 | 1.49 H | 166 | 48.6 | -11.1 |
| 4 | 288.02 | 37.4 QP | 46.0 | -8.6 | 1.00 H | 171 | 45.1 | -7.7 |
| 5 | 724.52 | 35.9 QP | 46.0 | -10.1 | 1.49 H | 161 | 35.1 | 0.8 |
| 6 | 866.14 | 32.6 QP | 46.0 | -13.4 | 1.49 H | 43 | 28.6 | 4.0 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

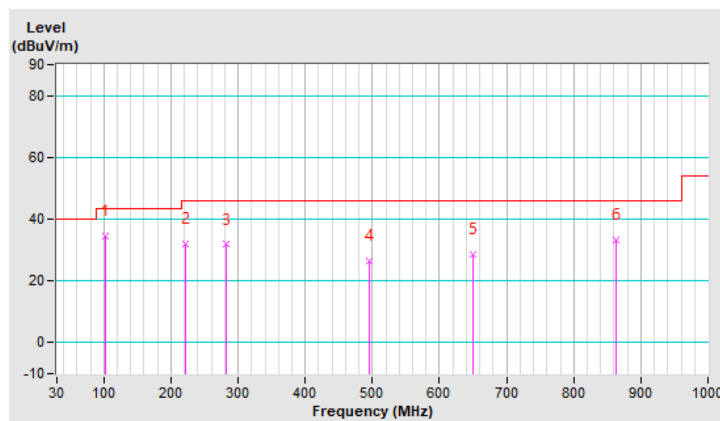


| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 101.78 | 34.4 QP | 43.5 | -9.1 | 1.49 V | 6 | 47.5 | -13.1 |
| 2 | 222.06 | 32.0 QP | 46.0 | -14.0 | 2.00 V | 200 | 43.2 | -11.2 |
| 3 | 282.20 | 31.7 QP | 46.0 | -14.3 | 1.49 V | 238 | 39.5 | -7.8 |
| 4 | 495.60 | 26.4 QP | 46.0 | -19.6 | 1.49 V | 345 | 30.8 | -4.4 |
| 5 | 650.80 | 28.5 QP | 46.0 | -17.5 | 1.00 V | 250 | 29.3 | -0.8 |
| 6 | 862.26 | 33.2 QP | 46.0 | -12.8 | 1.49 V | 232 | 29.2 | 4.0 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



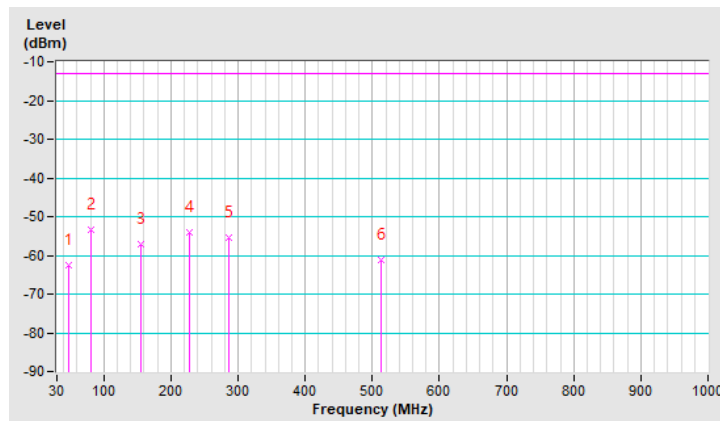
| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 47.46 | -62.48 | -13.00 | -49.48 | 1.49 H | 150 | 43.84 | -106.32 |
| 2 | 80.44 | -53.23 | -13.00 | -40.23 | 1.49 H | 136 | 57.30 | -110.53 |
| 3 | 156.10 | -57.05 | -13.00 | -44.05 | 1.49 H | 288 | 48.85 | -105.90 |
| 4 | 227.88 | -54.13 | -13.00 | -41.13 | 1.49 H | 154 | 54.37 | -108.50 |
| 5 | 286.08 | -55.30 | -13.00 | -42.30 | 1.00 H | 162 | 49.84 | -105.14 |
| 6 | 513.06 | -61.07 | -13.00 | -48.07 | 1.49 H | 202 | 40.21 | -101.28 |

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

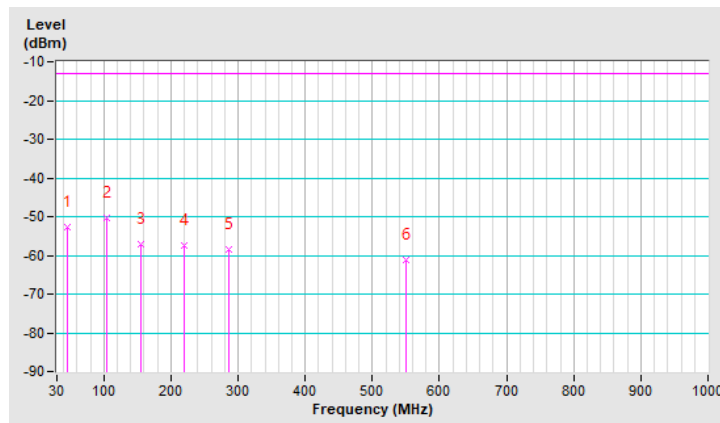


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 45.52 | -52.60 | -13.00 | -39.60 | 1.00 V | 205 | 53.74 | -106.34 |
| 2 | 103.72 | -50.34 | -13.00 | -37.34 | 1.49 V | 230 | 59.66 | -110.00 |
| 3 | 156.10 | -56.96 | -13.00 | -43.96 | 1.49 V | 129 | 48.94 | -105.90 |
| 4 | 220.12 | -57.46 | -13.00 | -44.46 | 1.49 V | 140 | 51.12 | -108.58 |
| 5 | 286.08 | -58.39 | -13.00 | -45.39 | 1.49 V | 241 | 46.75 | -105.14 |
| 6 | 549.92 | -61.20 | -13.00 | -48.20 | 1.00 V | 214 | 39.57 | -100.77 |

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.



Mode 2

Above 1 GHz Data :

BT EDR, Ch39 + WCDMA Band 2, Ch 9538 + NFC, Ch1

| | | | |
|-----------------|----------------|-------------------|---------------------------|
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function | Peak (PK) Average (AV) |
|-----------------|----------------|-------------------|---------------------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 103.4 PK | | | 1.21 H | 165 | 68.5 | 34.9 |
| 2 | *2441.00 | 72.9 AV | | | 1.21 H | 165 | 38.0 | 34.9 |
| 3 | 4882.00 | 52.0 PK | 74.0 | -22.0 | 2.29 H | 188 | 38.4 | 13.6 |
| 4 | 4882.00 | 21.5 AV | 54.0 | -32.5 | 2.29 H | 188 | 7.9 | 13.6 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 98.2 PK | | | 1.15 V | 285 | 63.3 | 34.9 |
| 2 | *2441.00 | 67.7 AV | | | 1.15 V | 285 | 32.8 | 34.9 |
| 3 | 4882.00 | 51.4 PK | 74.0 | -22.6 | 2.44 V | 188 | 37.8 | 13.6 |
| 4 | 4882.00 | 20.9 AV | 54.0 | -33.1 | 2.44 V | 188 | 7.3 | 13.6 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. For Fundamental frequency and band edge & harmonic:
The average value of fundamental frequency is :average value = peak value + 20*log(Duty cycle) where the duty cycle correction factor is calculated from following formula:
20*Log(Duty cycle) = 20*log (3 ms/100) = -30.5 dB , please refer to the plotted duty (see section 3.3)

| | |
|-----------------|----------------|
| Frequency Range | 1 GHz ~ 20 GHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBUV) | Correction Factor (dB/m) |
| 1 | 3815.20 | -41.83 | -13.00 | -28.83 | 2.71 H | 261 | 46.16 | -87.99 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBUV) | Correction Factor (dB/m) |
| 1 | 3815.20 | -39.91 | -13.00 | -26.91 | 1.65 V | 195 | 48.08 | -87.99 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Below 1GHz data:

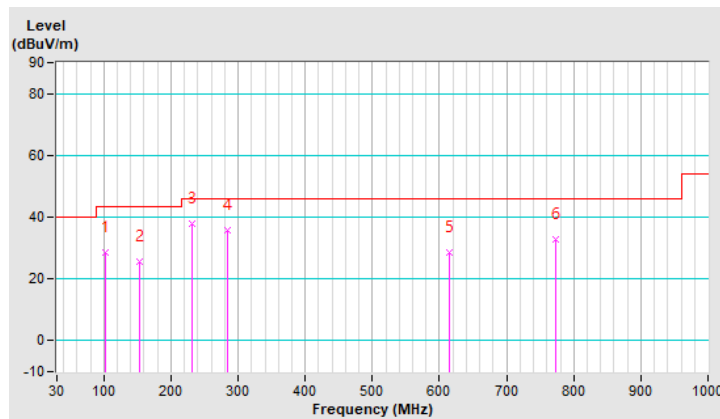
BT EDR, Ch39 + WCDMA Band 2, Ch 9538 + NFC, Ch1

| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 101.78 | 28.7 QP | 43.5 | -14.8 | 1.49 H | 313 | 41.8 | -13.1 |
| 2 | 154.16 | 25.6 QP | 43.5 | -17.9 | 1.49 H | 272 | 34.1 | -8.5 |
| 3 | 231.76 | 37.7 QP | 46.0 | -8.3 | 1.00 H | 166 | 48.4 | -10.7 |
| 4 | 284.14 | 35.6 QP | 46.0 | -10.4 | 1.49 H | 168 | 43.3 | -7.7 |
| 5 | 613.94 | 28.4 QP | 46.0 | -17.6 | 1.49 H | 142 | 29.7 | -1.3 |
| 6 | 773.02 | 32.7 QP | 46.0 | -13.3 | 1.00 H | 6 | 30.2 | 2.5 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

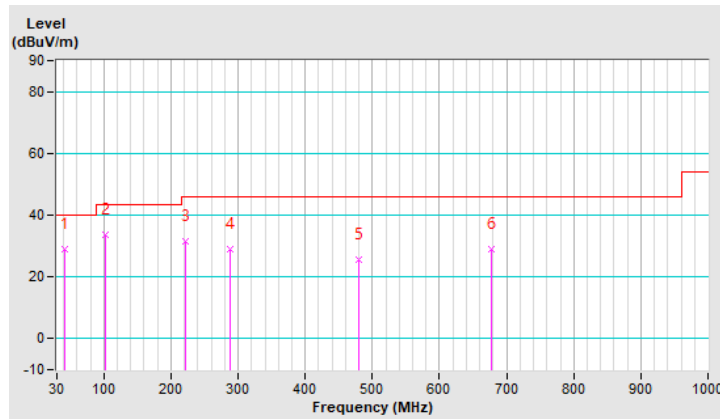


| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 41.64 | 29.1 QP | 40.0 | -10.9 | 1.00 V | 27 | 38.3 | -9.2 |
| 2 | 101.78 | 33.8 QP | 43.5 | -9.7 | 1.49 V | 223 | 46.9 | -13.1 |
| 3 | 222.06 | 31.7 QP | 46.0 | -14.3 | 1.49 V | 199 | 42.9 | -11.2 |
| 4 | 288.02 | 29.1 QP | 46.0 | -16.9 | 1.00 V | 263 | 36.8 | -7.7 |
| 5 | 480.08 | 25.7 QP | 46.0 | -20.3 | 1.49 V | 340 | 30.2 | -4.5 |
| 6 | 677.96 | 28.8 QP | 46.0 | -17.2 | 1.49 V | 335 | 29.4 | -0.6 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

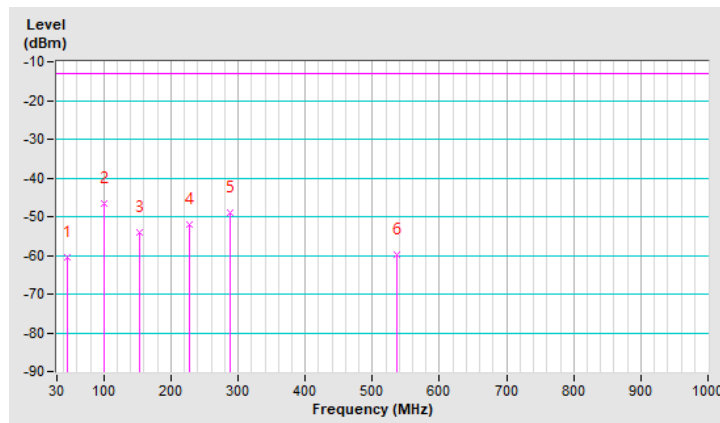


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 45.52 | -60.38 | -13.00 | -47.38 | 1.00 H | 153 | 43.81 | -104.19 |
| 2 | 99.84 | -46.58 | -13.00 | -33.58 | 1.00 H | 338 | 61.92 | -108.50 |
| 3 | 154.16 | -54.02 | -13.00 | -41.02 | 1.00 H | 269 | 49.65 | -103.67 |
| 4 | 227.88 | -51.87 | -13.00 | -38.87 | 1.00 H | 154 | 54.48 | -106.35 |
| 5 | 288.02 | -49.10 | -13.00 | -36.10 | 1.50 H | 168 | 53.87 | -102.97 |
| 6 | 536.34 | -59.69 | -13.00 | -46.69 | 1.00 H | 8 | 39.13 | -98.82 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

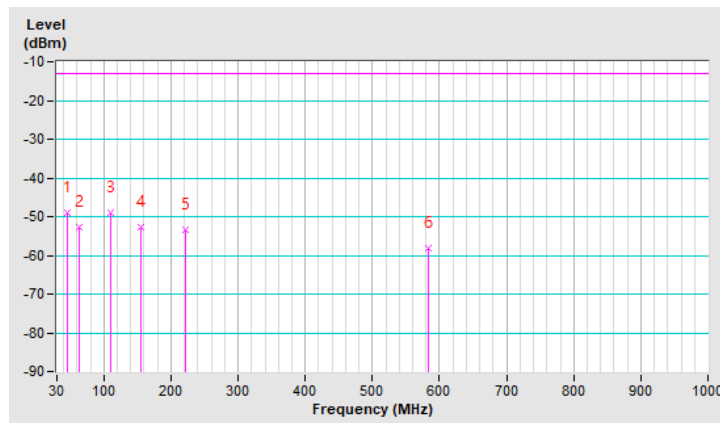


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 45.52 | -49.10 | -13.00 | -36.10 | 1.50 V | 15 | 55.09 | -104.19 |
| 2 | 62.98 | -52.64 | -13.00 | -39.64 | 1.00 V | 358 | 52.12 | -104.76 |
| 3 | 109.54 | -48.96 | -13.00 | -35.96 | 1.00 V | 275 | 58.17 | -107.13 |
| 4 | 156.10 | -52.74 | -13.00 | -39.74 | 1.00 V | 297 | 51.01 | -103.75 |
| 5 | 222.06 | -53.52 | -13.00 | -40.52 | 1.00 V | 123 | 52.96 | -106.48 |
| 6 | 582.90 | -58.00 | -13.00 | -45.00 | 1.50 V | 178 | 39.63 | -97.63 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



Mode 3

Above 1 GHz Data :

BT EDR, Ch39 + LTE Band 4, Ch 20300 + NFC, Ch1

| | | | |
|-----------------|----------------|-------------------|---------------------------|
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function | Peak (PK) Average (AV) |
|-----------------|----------------|-------------------|---------------------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 103.4 PK | | | 1.22 H | 165 | 68.5 | 34.9 |
| 2 | *2441.00 | 72.9 AV | | | 1.22 H | 165 | 38.0 | 34.9 |
| 3 | 4882.00 | 52.2 PK | 74.0 | -21.8 | 2.29 H | 190 | 38.6 | 13.6 |
| 4 | 4882.00 | 21.7 AV | 54.0 | -32.3 | 2.29 H | 190 | 8.1 | 13.6 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2441.00 | 98.1 PK | | | 1.55 V | 282 | 63.2 | 34.9 |
| 2 | *2441.00 | 67.6 AV | | | 1.55 V | 282 | 32.7 | 34.9 |
| 3 | 4882.00 | 51.6 PK | 74.0 | -22.4 | 2.45 V | 187 | 38.0 | 13.6 |
| 4 | 4882.00 | 21.1 AV | 54.0 | -32.9 | 2.45 V | 187 | 7.5 | 13.6 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. For Fundamental frequency and band edge & harmonic:
The average value of fundamental frequency is :average value = peak value + 20*log(Duty cycle) where the duty cycle correction factor is calculated from following formula:
20*Log(Duty cycle) = 20*log (3 ms/100) = -30.5 dB , please refer to the plotted duty (see section 3.3)

| | |
|-----------------|----------------|
| Frequency Range | 1 GHz ~ 18 GHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBUV) | Correction Factor (dB/m) |
| 1 | 3490.00 | -35.59 | -13.00 | -22.59 | 3.09 H | 248 | 53.72 | -89.31 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBUV) | Correction Factor (dB/m) |
| 1 | 3490.00 | -33.55 | -13.00 | -20.55 | 1.75 V | 99 | 55.76 | -89.31 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Below 1GHz data:

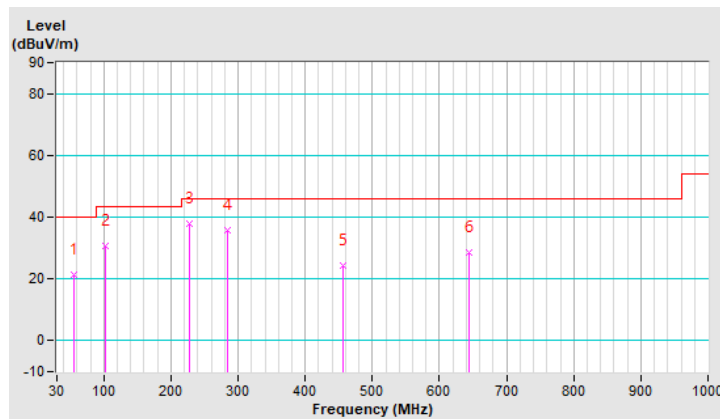
BT EDR, Ch39 + LTE Band 4, Ch 20300 + NFC, Ch1

| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 55.22 | 21.4 QP | 40.0 | -18.6 | 1.00 H | 115 | 30.4 | -9.0 |
| 2 | 101.78 | 30.7 QP | 43.5 | -12.8 | 1.49 H | 288 | 43.8 | -13.1 |
| 3 | 227.88 | 37.9 QP | 46.0 | -8.1 | 1.49 H | 170 | 49.0 | -11.1 |
| 4 | 284.14 | 35.8 QP | 46.0 | -10.2 | 1.49 H | 153 | 43.5 | -7.7 |
| 5 | 456.80 | 24.3 QP | 46.0 | -21.7 | 1.49 H | 130 | 29.0 | -4.7 |
| 6 | 644.98 | 28.7 QP | 46.0 | -17.3 | 1.00 H | 290 | 29.6 | -0.9 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

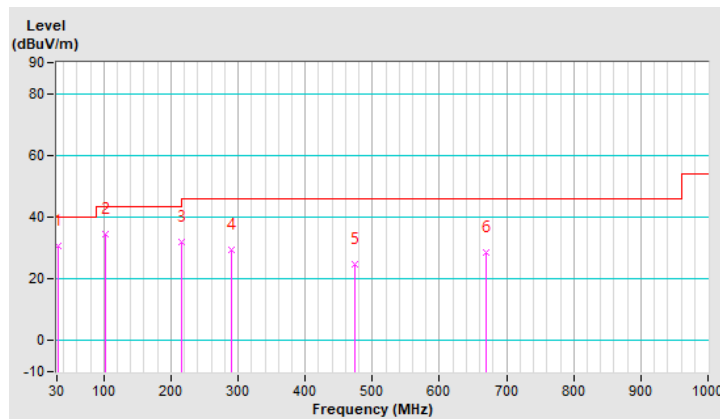


| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (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 | 30.7 QP | 40.0 | -9.3 | 1.00 V | 354 | 41.1 | -10.4 |
| 2 | 101.78 | 34.5 QP | 43.5 | -9.0 | 1.49 V | 6 | 47.6 | -13.1 |
| 3 | 216.24 | 32.1 QP | 46.0 | -13.9 | 2.00 V | 201 | 43.3 | -11.2 |
| 4 | 289.96 | 29.6 QP | 46.0 | -16.4 | 1.49 V | 234 | 37.2 | -7.6 |
| 5 | 474.26 | 24.7 QP | 46.0 | -21.3 | 1.00 V | 315 | 29.3 | -4.6 |
| 6 | 670.20 | 28.7 QP | 46.0 | -17.3 | 1.49 V | 97 | 29.4 | -0.7 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

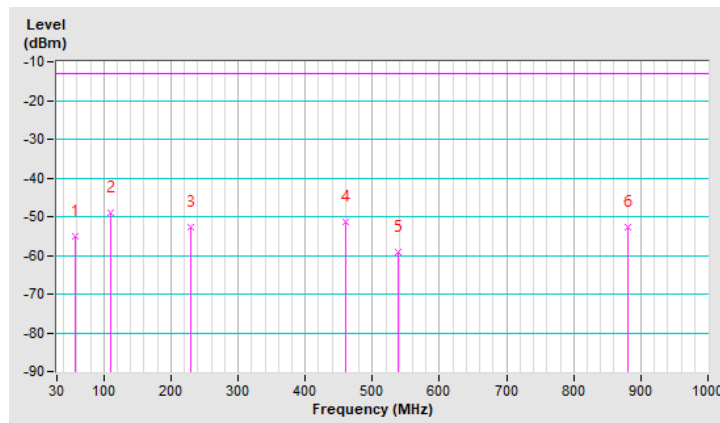


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 57.16 | -55.00 | -13.00 | -42.00 | 1.00 H | 124 | 49.48 | -104.48 |
| 2 | 109.54 | -49.14 | -13.00 | -36.14 | 1.49 H | 290 | 57.99 | -107.13 |
| 3 | 229.82 | -52.81 | -13.00 | -39.81 | 1.49 H | 171 | 53.39 | -106.20 |
| 4 | 460.68 | -51.50 | -13.00 | -38.50 | 1.00 H | 124 | 48.35 | -99.85 |
| 5 | 538.28 | -59.17 | -13.00 | -46.17 | 1.49 H | 36 | 39.63 | -98.80 |
| 6 | 881.66 | -52.59 | -13.00 | -39.59 | 1.49 H | 306 | 38.40 | -90.99 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

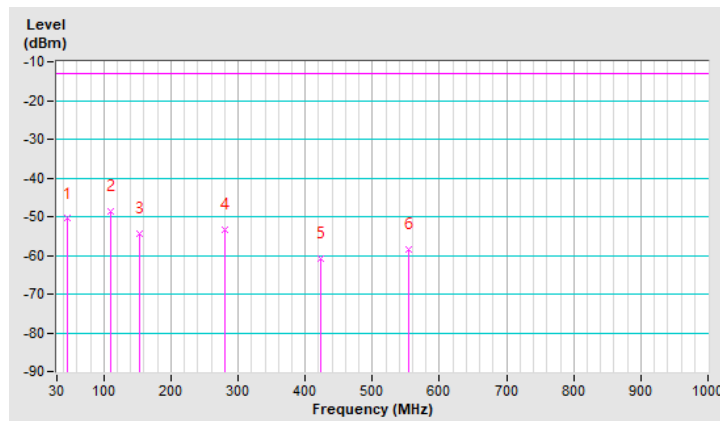


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 45.52 | -50.51 | -13.00 | -37.51 | 1.49 V | 29 | 53.68 | -104.19 |
| 2 | 109.54 | -48.60 | -13.00 | -35.60 | 1.00 V | 191 | 58.53 | -107.13 |
| 3 | 154.16 | -54.55 | -13.00 | -41.55 | 1.49 V | 137 | 49.12 | -103.67 |
| 4 | 280.26 | -53.54 | -13.00 | -40.54 | 1.49 V | 222 | 49.56 | -103.10 |
| 5 | 423.82 | -61.00 | -13.00 | -48.00 | 1.00 V | 201 | 39.61 | -100.61 |
| 6 | 553.80 | -58.51 | -13.00 | -45.51 | 1.49 V | 89 | 40.01 | -98.52 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



Mode 4

Above 1 GHz Data :

802.11g, Ch1 + WCDMA Band 5, Ch 4233 + NFC, Ch1

| | | | |
|-----------------|----------------|-------------------|---------------------------|
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function | Peak (PK) Average (AV) |
|-----------------|----------------|-------------------|---------------------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (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 | 67.1 PK | 74.0 | -6.9 | 1.92 H | 162 | 32.2 | 34.9 |
| 2 | 2390.00 | 50.7 AV | 54.0 | -3.3 | 1.92 H | 162 | 15.8 | 34.9 |
| 3 | *2412.00 | 105.7 PK | | | 1.92 H | 162 | 70.8 | 34.9 |
| 4 | *2412.00 | 95.3 AV | | | 1.92 H | 162 | 60.4 | 34.9 |
| 5 | 4824.00 | 52.1 PK | 74.0 | -21.9 | 2.44 H | 192 | 38.5 | 13.6 |
| 6 | 4824.00 | 39.1 AV | 54.0 | -14.9 | 2.44 H | 192 | 25.5 | 13.6 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (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 | 63.9 PK | 74.0 | -10.1 | 1.18 V | 255 | 29.0 | 34.9 |
| 2 | 2390.00 | 48.1 AV | 54.0 | -5.9 | 1.18 V | 255 | 13.2 | 34.9 |
| 3 | *2412.00 | 100.6 PK | | | 1.18 V | 255 | 65.7 | 34.9 |
| 4 | *2412.00 | 90.4 AV | | | 1.18 V | 255 | 55.5 | 34.9 |
| 5 | 4824.00 | 51.6 PK | 74.0 | -22.4 | 3.15 V | 155 | 38.0 | 13.6 |
| 6 | 4824.00 | 38.8 AV | 54.0 | -15.2 | 3.15 V | 155 | 25.2 | 13.6 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

| | |
|-----------------|----------------|
| Frequency Range | 1 GHz ~ 18 GHz |
|-----------------|----------------|

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 1693.20 | -43.90 | -13.00 | -30.90 | 2.99 H | 235 | 55.25 | -99.15 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 1693.20 | -42.12 | -13.00 | -29.12 | 1.95 V | 120 | 57.03 | -99.15 |

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

Below 1GHz data:

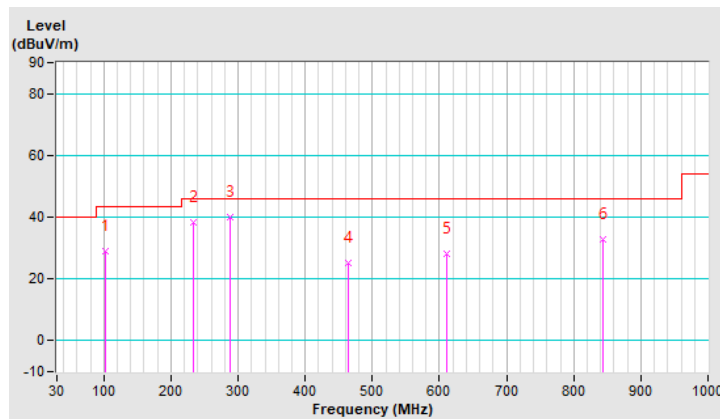
802.11g, Ch1 + WCDMA Band 5, Ch 4233 + NFC, Ch1

| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 101.78 | 29.0 QP | 43.5 | -14.5 | 1.50 H | 329 | 42.1 | -13.1 |
| 2 | 233.70 | 38.1 QP | 46.0 | -7.9 | 1.00 H | 174 | 48.4 | -10.3 |
| 3 | 288.02 | 39.8 QP | 46.0 | -6.2 | 1.00 H | 154 | 47.5 | -7.7 |
| 4 | 464.56 | 25.0 QP | 46.0 | -21.0 | 1.00 H | 54 | 29.5 | -4.5 |
| 5 | 610.06 | 28.3 QP | 46.0 | -17.7 | 1.50 H | 267 | 29.7 | -1.4 |
| 6 | 842.86 | 32.8 QP | 46.0 | -13.2 | 1.00 H | 172 | 29.1 | 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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

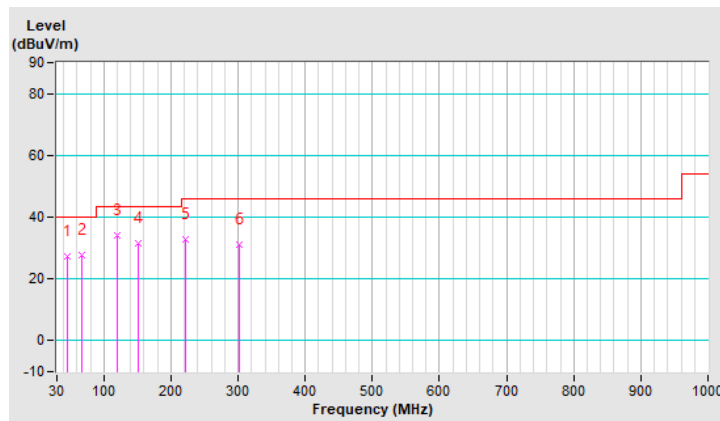


| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 45.52 | 27.5 QP | 40.0 | -12.5 | 1.50 V | 146 | 36.5 | -9.0 |
| 2 | 66.86 | 27.7 QP | 40.0 | -12.3 | 1.00 V | 100 | 37.9 | -10.2 |
| 3 | 119.24 | 34.1 QP | 43.5 | -9.4 | 1.00 V | 128 | 45.1 | -11.0 |
| 4 | 150.28 | 31.5 QP | 43.5 | -12.0 | 1.50 V | 126 | 40.0 | -8.5 |
| 5 | 222.06 | 32.9 QP | 46.0 | -13.1 | 1.00 V | 128 | 44.1 | -11.2 |
| 6 | 301.60 | 30.9 QP | 46.0 | -15.1 | 1.00 V | 359 | 38.2 | -7.3 |

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) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

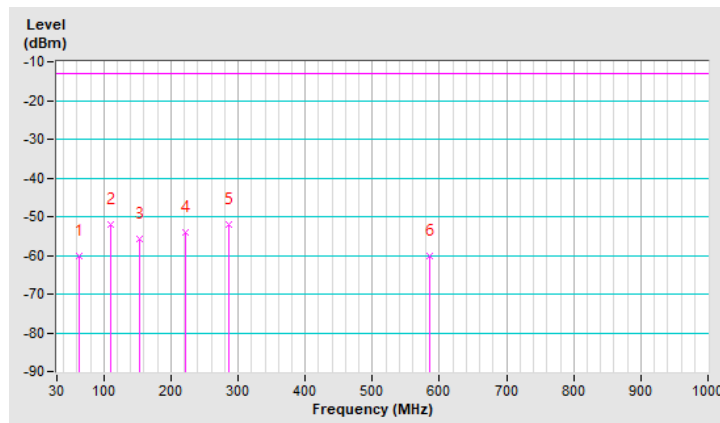


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBUV) | Correction Factor (dB/m) |
| 1 | 62.98 | -60.30 | -13.00 | -47.30 | 1.50 H | 318 | 46.61 | -106.91 |
| 2 | 109.54 | -52.14 | -13.00 | -39.14 | 1.00 H | 318 | 57.14 | -109.28 |
| 3 | 154.16 | -55.90 | -13.00 | -42.90 | 1.00 H | 288 | 49.92 | -105.82 |
| 4 | 222.06 | -54.11 | -13.00 | -41.11 | 1.00 H | 157 | 54.52 | -108.63 |
| 5 | 286.08 | -52.20 | -13.00 | -39.20 | 1.50 H | 157 | 52.94 | -105.14 |
| 6 | 584.84 | -60.29 | -13.00 | -47.29 | 1.00 H | 5 | 39.43 | -99.72 |

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

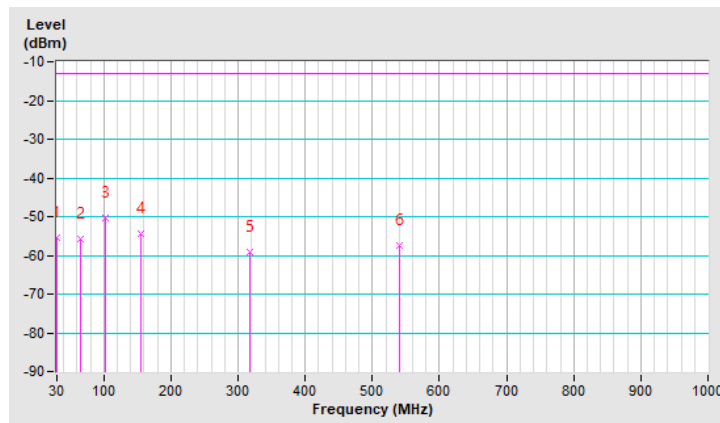


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 30.00 | -55.30 | -13.00 | -42.30 | 1.00 V | 237 | 52.45 | -107.75 |
| 2 | 64.92 | -55.79 | -13.00 | -42.79 | 1.00 V | 65 | 51.72 | -107.51 |
| 3 | 101.78 | -50.20 | -13.00 | -37.20 | 1.50 V | 205 | 60.20 | -110.40 |
| 4 | 156.10 | -54.57 | -13.00 | -41.57 | 1.00 V | 129 | 51.33 | -105.90 |
| 5 | 317.12 | -59.10 | -13.00 | -46.10 | 1.00 V | 113 | 45.29 | -104.39 |
| 6 | 540.22 | -57.60 | -13.00 | -44.60 | 1.50 V | 106 | 43.33 | -100.93 |

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.



Mode 5

Above 1 GHz Data :

802.11g, Ch1 + WCDMA Band 2, Ch 9538 + NFC, Ch1

| | | | |
|-----------------|----------------|-------------------|---------------------------|
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function | Peak (PK) Average (AV) |
|-----------------|----------------|-------------------|---------------------------|

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (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 | 67.1 PK | 74.0 | -6.9 | 1.93 H | 162 | 32.2 | 34.9 |
| 2 | 2390.00 | 50.6 AV | 54.0 | -3.4 | 1.93 H | 162 | 15.7 | 34.9 |
| 3 | *2412.00 | 105.6 PK | | | 1.93 H | 162 | 70.7 | 34.9 |
| 4 | *2412.00 | 95.2 AV | | | 1.93 H | 162 | 60.3 | 34.9 |
| 5 | 4824.00 | 52.4 PK | 74.0 | -21.6 | 2.45 H | 185 | 38.8 | 13.6 |
| 6 | 4824.00 | 39.0 AV | 54.0 | -15.0 | 2.45 H | 185 | 25.4 | 13.6 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (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 | 64.0 PK | 74.0 | -10.0 | 1.12 V | 251 | 29.1 | 34.9 |
| 2 | 2390.00 | 48.2 AV | 54.0 | -5.8 | 1.12 V | 251 | 13.3 | 34.9 |
| 3 | *2412.00 | 100.6 PK | | | 1.12 V | 251 | 65.7 | 34.9 |
| 4 | *2412.00 | 90.3 AV | | | 1.12 V | 251 | 55.4 | 34.9 |
| 5 | 4824.00 | 51.6 PK | 74.0 | -22.4 | 3.05 V | 153 | 38.0 | 13.6 |
| 6 | 4824.00 | 38.7 AV | 54.0 | -15.3 | 3.05 V | 153 | 25.1 | 13.6 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

| | |
|-----------------|----------------|
| Frequency Range | 1 GHz ~ 20 GHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBUV) | Correction Factor (dB/m) |
| 1 | 3815.20 | -41.86 | -13.00 | -28.86 | 2.77 H | 258 | 46.13 | -87.99 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBUV) | Correction Factor (dB/m) |
| 1 | 3815.20 | -39.74 | -13.00 | -26.74 | 1.68 V | 189 | 48.25 | -87.99 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Below 1GHz data:

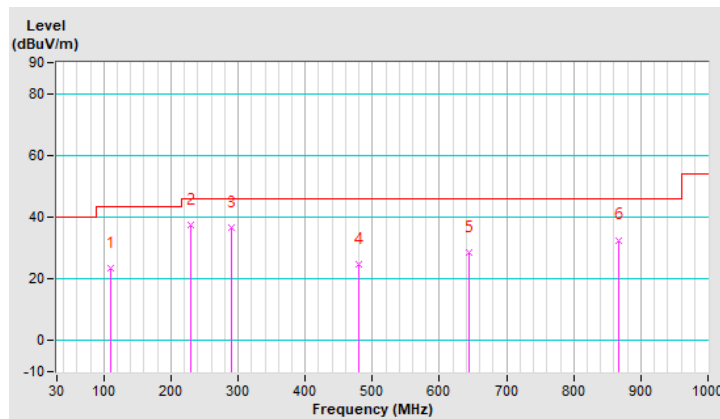
802.11g, Ch1 + WCDMA Band 2, Ch 9538 + NFC, Ch1

| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 109.54 | 23.4 QP | 43.5 | -20.1 | 1.50 H | 275 | 35.2 | -11.8 |
| 2 | 229.82 | 37.5 QP | 46.0 | -8.5 | 1.00 H | 185 | 48.5 | -11.0 |
| 3 | 289.96 | 36.7 QP | 46.0 | -9.3 | 1.00 H | 168 | 44.3 | -7.6 |
| 4 | 480.08 | 24.9 QP | 46.0 | -21.1 | 1.50 H | 174 | 29.4 | -4.5 |
| 5 | 644.98 | 28.5 QP | 46.0 | -17.5 | 1.00 H | 5 | 29.4 | -0.9 |
| 6 | 866.14 | 32.6 QP | 46.0 | -13.4 | 1.00 H | 245 | 28.6 | 4.0 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

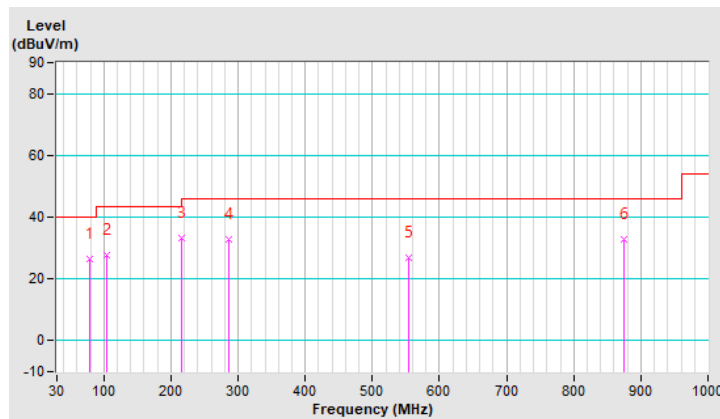


| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 78.50 | 26.4 QP | 40.0 | -13.6 | 1.50 V | 164 | 38.9 | -12.5 |
| 2 | 103.72 | 27.6 QP | 43.5 | -15.9 | 1.00 V | 330 | 40.3 | -12.7 |
| 3 | 216.24 | 33.1 QP | 46.0 | -12.9 | 1.00 V | 124 | 44.3 | -11.2 |
| 4 | 286.08 | 32.6 QP | 46.0 | -13.4 | 1.00 V | 220 | 40.3 | -7.7 |
| 5 | 553.80 | 26.7 QP | 46.0 | -19.3 | 2.00 V | 80 | 30.0 | -3.3 |
| 6 | 873.90 | 32.8 QP | 46.0 | -13.2 | 1.00 V | 2 | 28.7 | 4.1 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

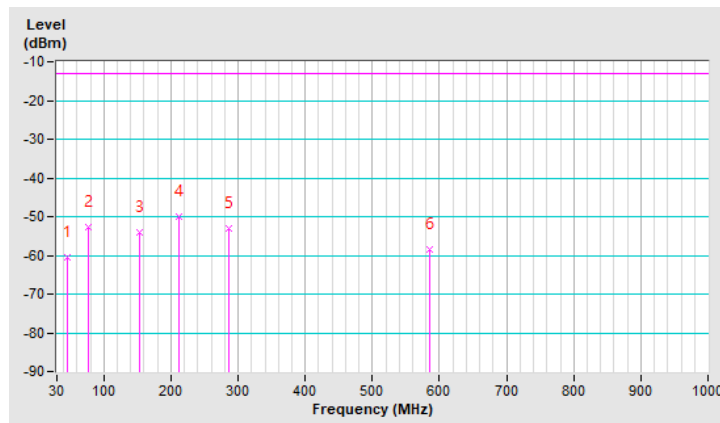


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 45.52 | -60.50 | -13.00 | -47.50 | 1.00 H | 143 | 43.69 | -104.19 |
| 2 | 76.56 | -52.82 | -13.00 | -39.82 | 1.50 H | 6 | 54.50 | -107.32 |
| 3 | 154.16 | -54.23 | -13.00 | -41.23 | 1.50 H | 276 | 49.44 | -103.67 |
| 4 | 212.36 | -50.13 | -13.00 | -37.13 | 1.50 H | 112 | 56.34 | -106.47 |
| 5 | 286.08 | -52.90 | -13.00 | -39.90 | 1.00 H | 136 | 50.09 | -102.99 |
| 6 | 584.84 | -58.38 | -13.00 | -45.38 | 1.50 H | 315 | 39.19 | -97.57 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

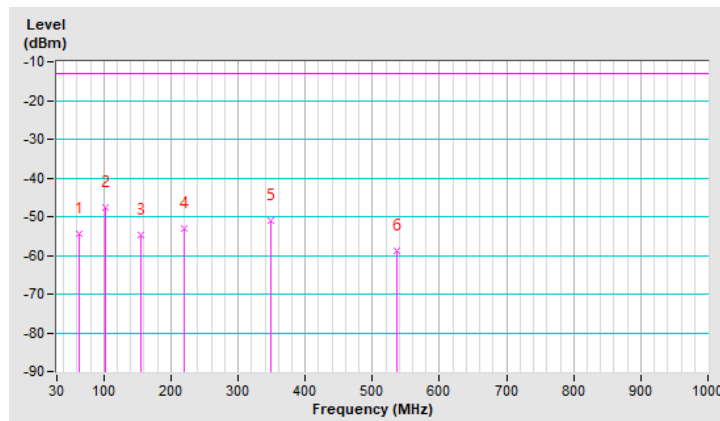


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 62.98 | -54.30 | -13.00 | -41.30 | 1.50 V | 1 | 50.46 | -104.76 |
| 2 | 101.78 | -47.62 | -13.00 | -34.62 | 1.00 V | 273 | 60.63 | -108.25 |
| 3 | 156.10 | -54.75 | -13.00 | -41.75 | 1.00 V | 5 | 49.00 | -103.75 |
| 4 | 220.12 | -53.08 | -13.00 | -40.08 | 1.00 V | 128 | 53.35 | -106.43 |
| 5 | 348.16 | -51.10 | -13.00 | -38.10 | 1.50 V | 280 | 50.90 | -102.00 |
| 6 | 536.34 | -58.68 | -13.00 | -45.68 | 1.00 V | 85 | 40.14 | -98.82 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



Mode 6

Above 1 GHz Data :

802.11g, Ch1 + LTE Band 4, Ch 20300 + NFC, Ch1

| | | | |
|-----------------|----------------|-------------------|---------------------------|
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function | Peak (PK) Average (AV) |
|-----------------|----------------|-------------------|---------------------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (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 | 67.1 PK | 74.0 | -6.9 | 1.92 H | 166 | 32.2 | 34.9 |
| 2 | 2390.00 | 50.8 AV | 54.0 | -3.2 | 1.92 H | 166 | 15.9 | 34.9 |
| 3 | *2412.00 | 105.7 PK | | | 1.92 H | 166 | 70.8 | 34.9 |
| 4 | *2412.00 | 95.4 AV | | | 1.92 H | 166 | 60.5 | 34.9 |
| 5 | 4824.00 | 52.3 PK | 74.0 | -21.7 | 2.44 H | 185 | 38.7 | 13.6 |
| 6 | 4824.00 | 39.1 AV | 54.0 | -14.9 | 2.44 H | 185 | 25.5 | 13.6 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (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 | 63.9 PK | 74.0 | -10.1 | 1.18 V | 255 | 29.0 | 34.9 |
| 2 | 2390.00 | 48.1 AV | 54.0 | -5.9 | 1.18 V | 255 | 13.2 | 34.9 |
| 3 | *2412.00 | 100.7 PK | | | 1.18 V | 255 | 65.8 | 34.9 |
| 4 | *2412.00 | 90.4 AV | | | 1.18 V | 255 | 55.5 | 34.9 |
| 5 | 4824.00 | 51.6 PK | 74.0 | -22.4 | 3.05 V | 155 | 38.0 | 13.6 |
| 6 | 4824.00 | 38.8 AV | 54.0 | -15.2 | 3.05 V | 155 | 25.2 | 13.6 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

| | |
|-----------------|----------------|
| Frequency Range | 1 GHz ~ 18 GHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBUV) | Correction Factor (dB/m) |
| 1 | 3490.00 | -35.43 | -13.00 | -22.43 | 3.11 H | 245 | 53.88 | -89.31 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBUV) | Correction Factor (dB/m) |
| 1 | 3490.00 | -33.42 | -13.00 | -20.42 | 1.75 V | 100 | 55.89 | -89.31 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Below 1GHz data:

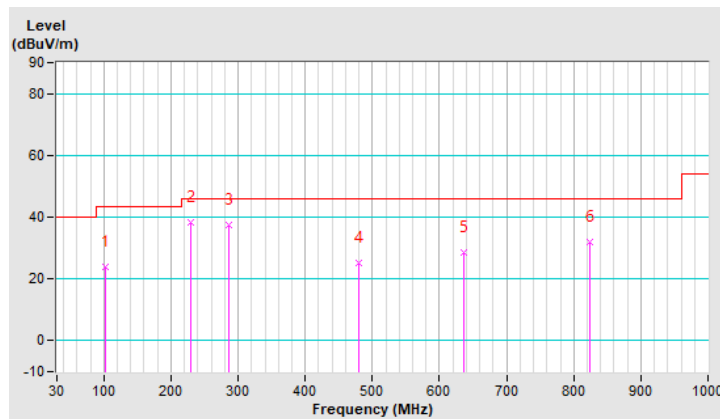
802.11g, Ch1 + LTE Band 4, Ch 20300 + NFC, Ch1

| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 101.78 | 24.1 QP | 43.5 | -19.4 | 1.50 H | 311 | 37.2 | -13.1 |
| 2 | 229.82 | 38.4 QP | 46.0 | -7.6 | 1.00 H | 158 | 49.4 | -11.0 |
| 3 | 286.08 | 37.6 QP | 46.0 | -8.4 | 1.00 H | 167 | 45.3 | -7.7 |
| 4 | 480.08 | 25.0 QP | 46.0 | -21.0 | 1.00 H | 251 | 29.5 | -4.5 |
| 5 | 637.22 | 28.4 QP | 46.0 | -17.6 | 1.00 H | 84 | 29.4 | -1.0 |
| 6 | 823.46 | 32.1 QP | 46.0 | -13.9 | 1.50 H | 199 | 28.8 | 3.3 |

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) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

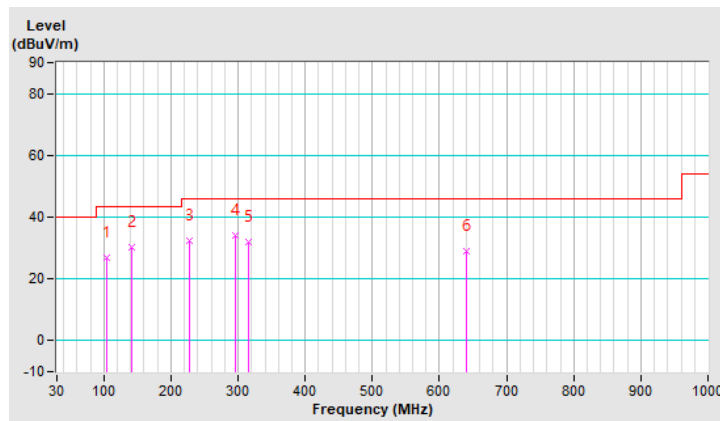


| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 103.72 | 26.9 QP | 43.5 | -16.6 | 2.00 V | 286 | 39.6 | -12.7 |
| 2 | 140.58 | 30.1 QP | 43.5 | -13.4 | 1.00 V | 115 | 39.1 | -9.0 |
| 3 | 227.88 | 32.5 QP | 46.0 | -13.5 | 1.00 V | 125 | 43.6 | -11.1 |
| 4 | 295.78 | 34.2 QP | 46.0 | -11.8 | 1.50 V | 115 | 41.8 | -7.6 |
| 5 | 315.18 | 32.1 QP | 46.0 | -13.9 | 1.00 V | 115 | 39.2 | -7.1 |
| 6 | 641.10 | 29.1 QP | 46.0 | -16.9 | 1.00 V | 166 | 30.1 | -1.0 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

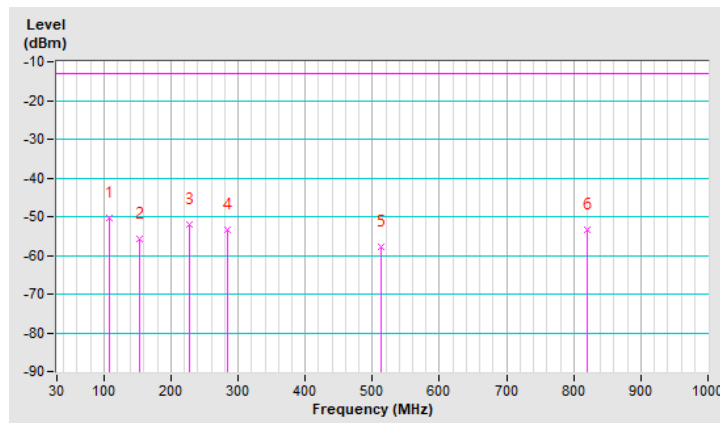


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 107.60 | -50.40 | -13.00 | -37.40 | 1.00 H | 284 | 56.88 | -107.28 |
| 2 | 154.16 | -55.80 | -13.00 | -42.80 | 1.49 H | 287 | 47.87 | -103.67 |
| 3 | 227.88 | -51.94 | -13.00 | -38.94 | 1.49 H | 166 | 54.41 | -106.35 |
| 4 | 284.14 | -53.44 | -13.00 | -40.44 | 1.49 H | 150 | 49.58 | -103.02 |
| 5 | 513.06 | -57.90 | -13.00 | -44.90 | 1.00 H | 104 | 41.23 | -99.13 |
| 6 | 819.58 | -53.48 | -13.00 | -40.48 | 1.49 H | 223 | 38.57 | -92.05 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

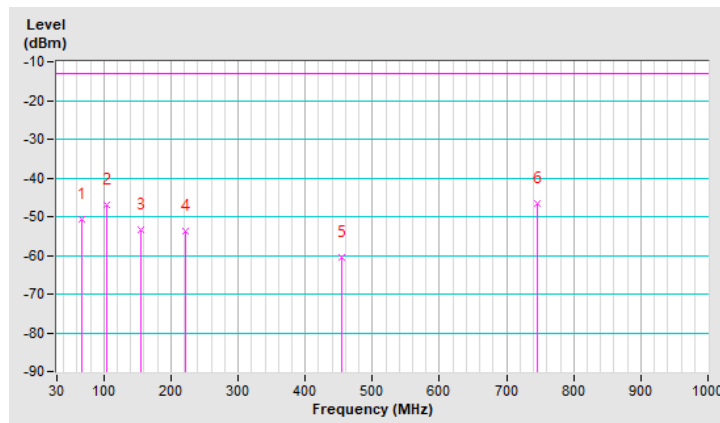


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBUV) | Correction Factor (dB/m) |
| 1 | 66.86 | -50.74 | -13.00 | -37.74 | 1.00 V | 89 | 54.73 | -105.47 |
| 2 | 103.72 | -46.79 | -13.00 | -33.79 | 1.00 V | 5 | 61.06 | -107.85 |
| 3 | 156.10 | -53.33 | -13.00 | -40.33 | 1.00 V | 296 | 50.42 | -103.75 |
| 4 | 222.06 | -53.69 | -13.00 | -40.69 | 1.00 V | 134 | 52.79 | -106.48 |
| 5 | 454.86 | -60.39 | -13.00 | -47.39 | 1.00 V | 5 | 39.58 | -99.97 |
| 6 | 745.86 | -46.76 | -13.00 | -33.76 | 1.50 V | 357 | 46.80 | -93.56 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



Mode 7

Above 1 GHz Data :

802.11a, Ch36 + WCDMA Band 5, Ch 4233 + NFC, Ch1

| | | | |
|-----------------|----------------|-------------------|---------------------------|
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function | Peak (PK) Average (AV) |
|-----------------|----------------|-------------------|---------------------------|

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5150.00 | 66.4 PK | 74.0 | -7.6 | 1.22 H | 177 | 53.8 | 12.6 |
| 2 | 5150.00 | 49.3 AV | 54.0 | -4.7 | 1.22 H | 177 | 36.7 | 12.6 |
| 3 | *5180.00 | 106.4 PK | | | 1.22 H | 177 | 63.7 | 42.7 |
| 4 | *5180.00 | 95.8 AV | | | 1.22 H | 177 | 53.1 | 42.7 |
| 5 | #10360.00 | 61.7 PK | 68.2 | -6.5 | 1.99 H | 212 | 39.2 | 22.5 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 5150.00 | 59.8 PK | 74.0 | -14.2 | 1.22 V | 202 | 47.2 | 12.6 |
| 2 | 5150.00 | 47.8 AV | 54.0 | -6.2 | 1.22 V | 202 | 35.2 | 12.6 |
| 3 | *5180.00 | 100.2 PK | | | 1.22 V | 202 | 57.5 | 42.7 |
| 4 | *5180.00 | 90.4 AV | | | 1.22 V | 202 | 47.7 | 42.7 |
| 5 | #10360.00 | 61.2 PK | 68.2 | -7.0 | 2.22 V | 185 | 38.7 | 22.5 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

| | |
|-----------------|----------------|
| Frequency Range | 1 GHz ~ 18 GHz |
|-----------------|----------------|

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 1693.20 | -43.99 | -13.00 | -30.99 | 2.92 H | 233 | 55.16 | -99.15 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 1693.20 | -42.04 | -13.00 | -29.04 | 1.95 V | 125 | 57.11 | -99.15 |

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

Below 1GHz data:

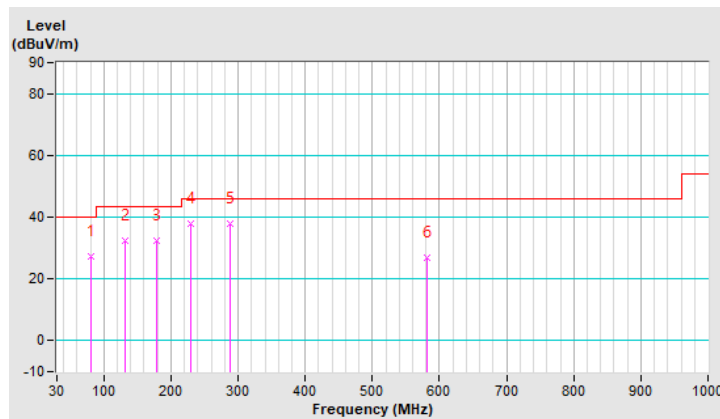
802.11a, Ch36 + WCDMA Band 5, Ch 4233 + NFC, Ch1

| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 80.44 | 27.2 QP | 40.0 | -12.8 | 1.50 H | 123 | 40.3 | -13.1 |
| 2 | 130.88 | 32.4 QP | 43.5 | -11.1 | 1.00 H | 130 | 42.3 | -9.9 |
| 3 | 179.38 | 32.5 QP | 43.5 | -11.0 | 1.00 H | 130 | 42.3 | -9.8 |
| 4 | 229.82 | 37.8 QP | 46.0 | -8.2 | 1.00 H | 181 | 48.8 | -11.0 |
| 5 | 288.02 | 37.9 QP | 46.0 | -8.1 | 1.00 H | 147 | 45.6 | -7.7 |
| 6 | 580.96 | 26.8 QP | 46.0 | -19.2 | 2.00 H | 231 | 29.2 | -2.4 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

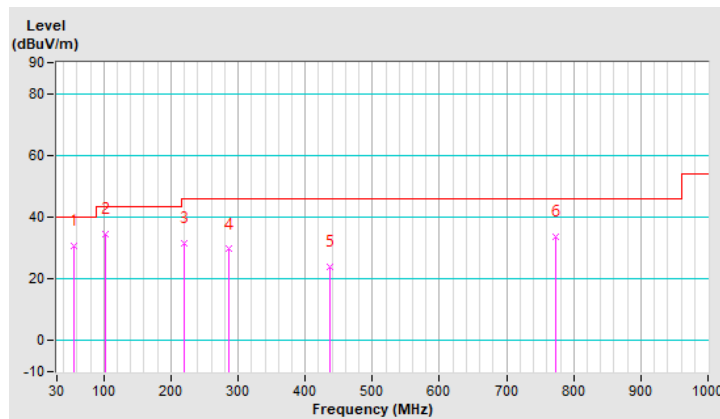


| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 55.22 | 30.7 QP | 40.0 | -9.3 | 1.00 V | 136 | 39.7 | -9.0 |
| 2 | 101.78 | 34.3 QP | 43.5 | -9.2 | 1.50 V | 262 | 47.4 | -13.1 |
| 3 | 220.12 | 31.4 QP | 46.0 | -14.6 | 1.50 V | 213 | 42.5 | -11.1 |
| 4 | 286.08 | 29.6 QP | 46.0 | -16.4 | 1.50 V | 234 | 37.3 | -7.7 |
| 5 | 437.40 | 23.8 QP | 46.0 | -22.2 | 1.00 V | 162 | 28.8 | -5.0 |
| 6 | 773.02 | 33.8 QP | 46.0 | -12.2 | 1.50 V | 69 | 31.3 | 2.5 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

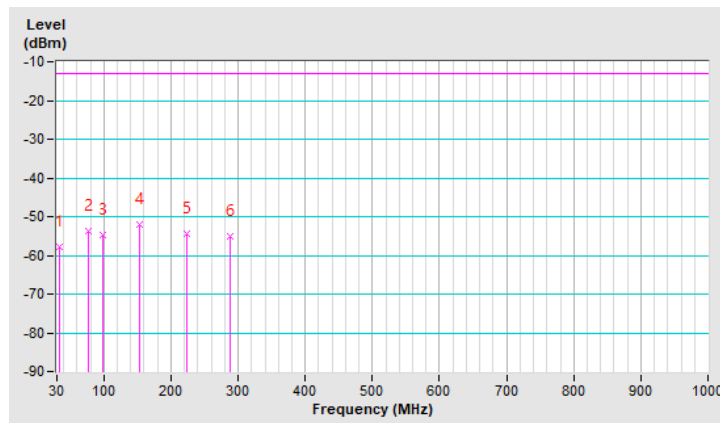


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 33.88 | -57.84 | -13.00 | -44.84 | 1.50 H | 117 | 49.74 | -107.58 |
| 2 | 76.56 | -53.80 | -13.00 | -40.80 | 2.00 H | 266 | 55.67 | -109.47 |
| 3 | 97.90 | -54.64 | -13.00 | -41.64 | 1.50 H | 291 | 56.37 | -111.01 |
| 4 | 154.16 | -51.95 | -13.00 | -38.95 | 1.50 H | 114 | 53.87 | -105.82 |
| 5 | 224.00 | -54.30 | -13.00 | -41.30 | 1.00 H | 166 | 54.37 | -108.67 |
| 6 | 288.02 | -55.03 | -13.00 | -42.03 | 1.50 H | 149 | 50.09 | -105.12 |

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

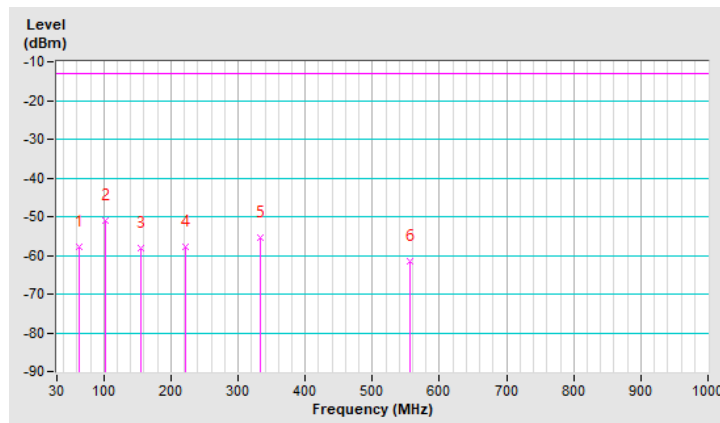


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 62.98 | -57.80 | -13.00 | -44.80 | 1.00 V | 6 | 49.11 | -106.91 |
| 2 | 101.78 | -50.89 | -13.00 | -37.89 | 1.49 V | 233 | 59.51 | -110.40 |
| 3 | 156.10 | -58.20 | -13.00 | -45.20 | 1.00 V | 111 | 47.70 | -105.90 |
| 4 | 222.06 | -57.67 | -13.00 | -44.67 | 1.49 V | 206 | 50.96 | -108.63 |
| 5 | 332.64 | -55.31 | -13.00 | -42.31 | 1.49 V | 334 | 48.81 | -104.12 |
| 6 | 555.74 | -61.61 | -13.00 | -48.61 | 1.49 V | 293 | 39.02 | -100.63 |

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.



Mode 8

Above 1 GHz Data :

802.11a, Ch36 + WCDMA Band 2, Ch 9538 + NFC, Ch1

| | | | |
|-----------------|----------------|-------------------|---------------------------|
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function | Peak (PK) Average (AV) |
|-----------------|----------------|-------------------|---------------------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5150.00 | 66.1 PK | 74.0 | -7.9 | 1.22 H | 179 | 53.5 | 12.6 |
| 2 | 5150.00 | 49.4 AV | 54.0 | -4.6 | 1.22 H | 179 | 36.8 | 12.6 |
| 3 | *5180.00 | 106.3 PK | | | 1.22 H | 179 | 63.6 | 42.7 |
| 4 | *5180.00 | 95.9 AV | | | 1.22 H | 179 | 53.2 | 42.7 |
| 5 | #10360.00 | 61.5 PK | 68.2 | -6.7 | 1.95 H | 207 | 39.0 | 22.5 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5150.00 | 59.8 PK | 74.0 | -14.2 | 1.23 V | 205 | 47.2 | 12.6 |
| 2 | 5150.00 | 47.9 AV | 54.0 | -6.1 | 1.23 V | 205 | 35.3 | 12.6 |
| 3 | *5180.00 | 100.3 PK | | | 1.23 V | 205 | 57.6 | 42.7 |
| 4 | *5180.00 | 90.2 AV | | | 1.23 V | 205 | 47.5 | 42.7 |
| 5 | #10360.00 | 61.2 PK | 68.2 | -7.0 | 2.22 V | 187 | 38.7 | 22.5 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

| | |
|-----------------|----------------|
| Frequency Range | 1 GHz ~ 20 GHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBUV) | Correction Factor (dB/m) |
| 1 | 3815.20 | -41.80 | -13.00 | -28.80 | 2.71 H | 255 | 46.19 | -87.99 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBUV) | Correction Factor (dB/m) |
| 1 | 3815.20 | -39.80 | -13.00 | -26.80 | 1.69 V | 192 | 48.19 | -87.99 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Below 1GHz data:

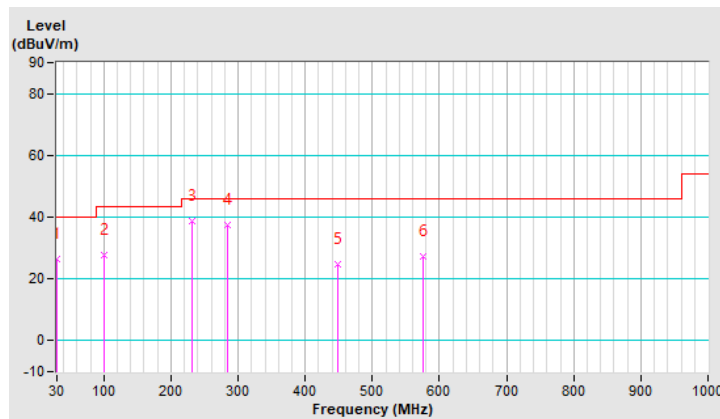
802.11a, Ch36 + WCDMA Band 2, Ch 9538 + NFC, Ch1

| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (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 | 26.5 QP | 40.0 | -13.5 | 1.00 H | 118 | 36.9 | -10.4 |
| 2 | 99.84 | 27.7 QP | 43.5 | -15.8 | 1.00 H | 18 | 41.0 | -13.3 |
| 3 | 231.76 | 38.6 QP | 46.0 | -7.4 | 1.00 H | 169 | 49.3 | -10.7 |
| 4 | 284.14 | 37.5 QP | 46.0 | -8.5 | 1.00 H | 160 | 45.2 | -7.7 |
| 5 | 449.04 | 24.7 QP | 46.0 | -21.3 | 1.50 H | 36 | 29.5 | -4.8 |
| 6 | 575.14 | 27.3 QP | 46.0 | -18.7 | 1.00 H | 198 | 30.0 | -2.7 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

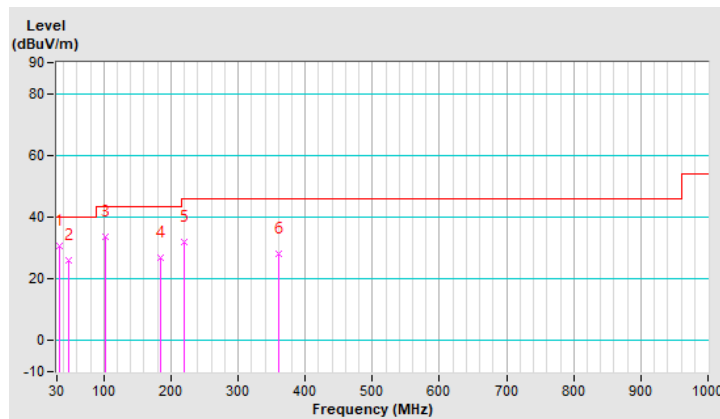


| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 33.88 | 30.7 QP | 40.0 | -9.3 | 1.49 V | 199 | 40.8 | -10.1 |
| 2 | 47.46 | 26.1 QP | 40.0 | -13.9 | 1.00 V | 10 | 35.0 | -8.9 |
| 3 | 101.78 | 33.6 QP | 43.5 | -9.9 | 1.49 V | 279 | 46.7 | -13.1 |
| 4 | 185.20 | 27.0 QP | 43.5 | -16.5 | 1.49 V | 118 | 37.5 | -10.5 |
| 5 | 220.12 | 31.8 QP | 46.0 | -14.2 | 2.00 V | 206 | 42.9 | -11.1 |
| 6 | 359.80 | 28.1 QP | 46.0 | -17.9 | 1.49 V | 118 | 34.5 | -6.4 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

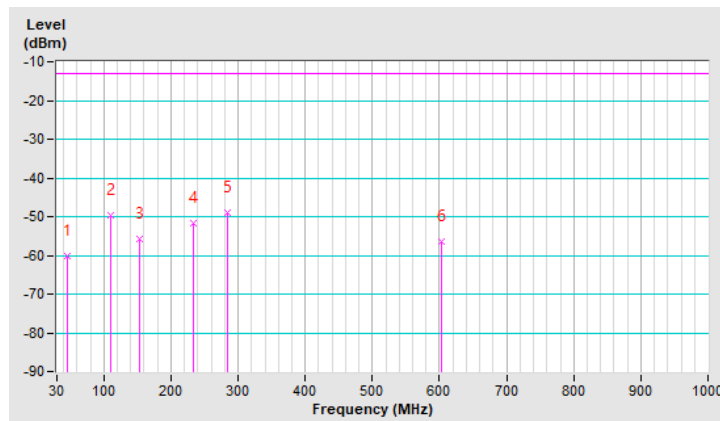


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 45.52 | -60.00 | -13.00 | -47.00 | 1.50 H | 158 | 44.19 | -104.19 |
| 2 | 109.54 | -49.81 | -13.00 | -36.81 | 1.00 H | 319 | 57.32 | -107.13 |
| 3 | 154.16 | -55.67 | -13.00 | -42.67 | 1.00 H | 270 | 48.00 | -103.67 |
| 4 | 233.70 | -51.60 | -13.00 | -38.60 | 1.50 H | 175 | 53.99 | -105.59 |
| 5 | 284.14 | -48.96 | -13.00 | -35.96 | 1.00 H | 171 | 54.06 | -103.02 |
| 6 | 602.30 | -56.50 | -13.00 | -43.50 | 1.00 H | 229 | 40.50 | -97.00 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

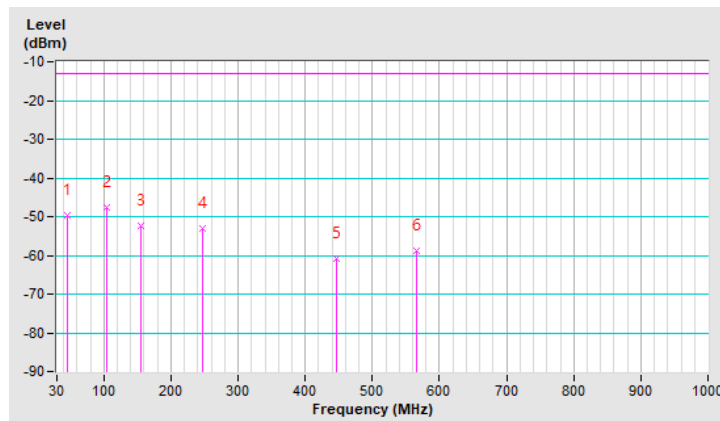


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 45.52 | -49.70 | -13.00 | -36.70 | 1.50 V | 212 | 54.49 | -104.19 |
| 2 | 103.72 | -47.62 | -13.00 | -34.62 | 1.00 V | 191 | 60.23 | -107.85 |
| 3 | 156.10 | -52.21 | -13.00 | -39.21 | 1.00 V | 153 | 51.54 | -103.75 |
| 4 | 247.28 | -53.10 | -13.00 | -40.10 | 1.50 V | 113 | 51.39 | -104.49 |
| 5 | 447.10 | -60.78 | -13.00 | -47.78 | 1.00 V | 18 | 39.37 | -100.15 |
| 6 | 565.44 | -58.76 | -13.00 | -45.76 | 1.00 V | 97 | 39.50 | -98.26 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



Mode 9

Above 1 GHz Data :

802.11a, Ch36 + LTE Band 4, Ch 20300 + NFC, Ch1

| | | | |
|-----------------|----------------|-------------------|---------------------------|
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function | Peak (PK) Average (AV) |
|-----------------|----------------|-------------------|---------------------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5150.00 | 66.3 PK | 74.0 | -7.7 | 1.23 H | 178 | 53.7 | 12.6 |
| 2 | 5150.00 | 49.6 AV | 54.0 | -4.4 | 1.23 H | 178 | 37.0 | 12.6 |
| 3 | *5180.00 | 106.4 PK | | | 1.23 H | 178 | 63.7 | 42.7 |
| 4 | *5180.00 | 95.9 AV | | | 1.23 H | 178 | 53.2 | 42.7 |
| 5 | #10360.00 | 61.6 PK | 68.2 | -6.6 | 1.95 H | 202 | 39.1 | 22.5 |

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5150.00 | 59.6 PK | 74.0 | -14.4 | 1.21 V | 205 | 47.0 | 12.6 |
| 2 | 5150.00 | 47.7 AV | 54.0 | -6.3 | 1.21 V | 205 | 35.1 | 12.6 |
| 3 | *5180.00 | 100.2 PK | | | 1.21 V | 205 | 57.5 | 42.7 |
| 4 | *5180.00 | 90.2 AV | | | 1.21 V | 205 | 47.5 | 42.7 |
| 5 | #10360.00 | 61.1 PK | 68.2 | -7.1 | 2.23 V | 185 | 38.6 | 22.5 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

| | |
|-----------------|----------------|
| Frequency Range | 1 GHz ~ 18 GHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3490.00 | -35.52 | -13.00 | -22.52 | 3.05 H | 244 | 53.79 | -89.31 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3490.00 | -33.49 | -13.00 | -20.49 | 1.72 V | 96 | 55.82 | -89.31 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

Below 1GHz data:

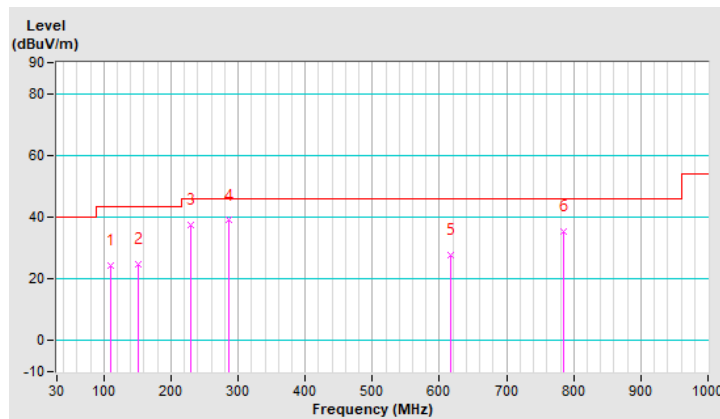
802.11a, Ch36 + LTE Band 4, Ch 20300 + NFC, Ch1

| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 109.54 | 24.3 QP | 43.5 | -19.2 | 1.50 H | 252 | 36.1 | -11.8 |
| 2 | 152.22 | 24.6 QP | 43.5 | -18.9 | 1.00 H | 284 | 33.2 | -8.6 |
| 3 | 229.82 | 37.6 QP | 46.0 | -8.4 | 1.00 H | 173 | 48.6 | -11.0 |
| 4 | 286.08 | 38.9 QP | 46.0 | -7.1 | 1.00 H | 154 | 46.6 | -7.7 |
| 5 | 615.88 | 27.7 QP | 46.0 | -18.3 | 1.50 H | 122 | 29.0 | -1.3 |
| 6 | 784.66 | 35.2 QP | 46.0 | -10.8 | 1.00 H | 167 | 32.8 | 2.4 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

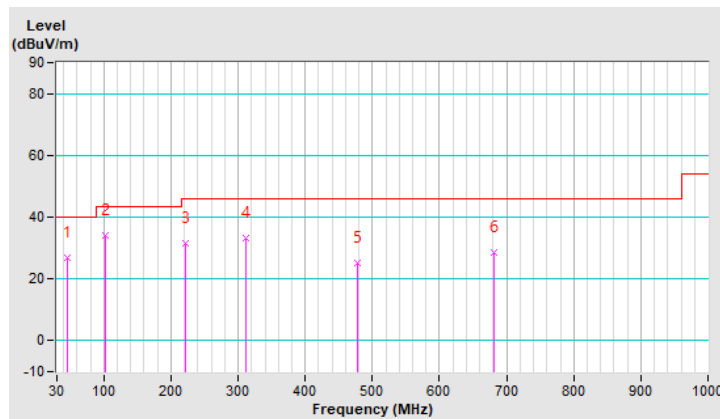


| | | | |
|-----------------|-------------|-------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
|-----------------|-------------|-------------------|-----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 45.52 | 27.0 QP | 40.0 | -13.0 | 1.00 V | 19 | 36.0 | -9.0 |
| 2 | 101.78 | 33.9 QP | 43.5 | -9.6 | 1.49 V | 225 | 47.0 | -13.1 |
| 3 | 222.06 | 31.5 QP | 46.0 | -14.5 | 1.49 V | 199 | 42.7 | -11.2 |
| 4 | 311.30 | 33.3 QP | 46.0 | -12.7 | 1.49 V | 120 | 40.4 | -7.1 |
| 5 | 478.14 | 25.1 QP | 46.0 | -20.9 | 1.00 V | 160 | 29.6 | -4.5 |
| 6 | 681.84 | 28.6 QP | 46.0 | -17.4 | 1.49 V | 102 | 29.1 | -0.5 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

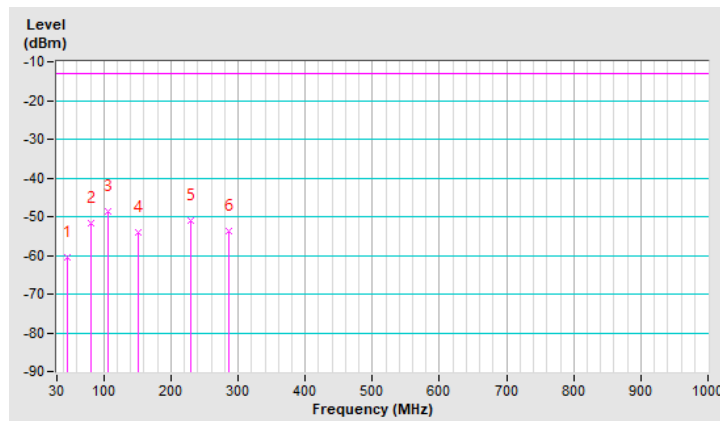


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 45.52 | -60.50 | -13.00 | -47.50 | 1.00 H | 136 | 43.69 | -104.19 |
| 2 | 80.44 | -51.54 | -13.00 | -38.54 | 1.49 H | 269 | 56.84 | -108.38 |
| 3 | 105.66 | -48.80 | -13.00 | -35.80 | 1.49 H | 286 | 58.82 | -107.62 |
| 4 | 152.22 | -54.12 | -13.00 | -41.12 | 1.49 H | 272 | 49.68 | -103.80 |
| 5 | 229.82 | -51.10 | -13.00 | -38.10 | 2.00 H | 185 | 55.10 | -106.20 |
| 6 | 286.08 | -53.85 | -13.00 | -40.85 | 1.49 H | 157 | 49.14 | -102.99 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

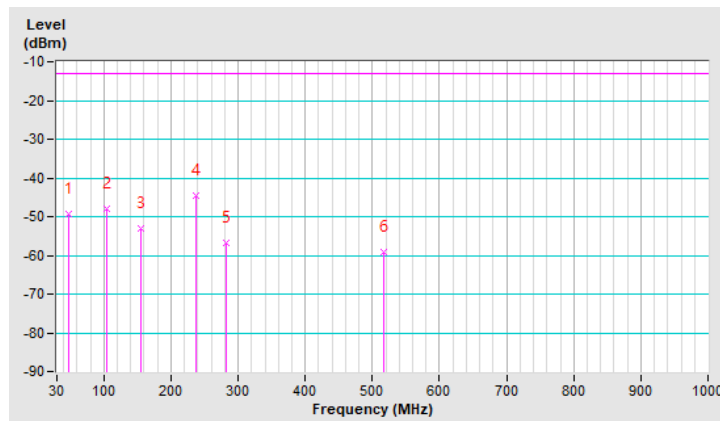


| | |
|-----------------|----------------|
| Frequency Range | Below 1000 MHz |
|-----------------|----------------|

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBUV) | Correction Factor (dB/m) |
| 1 | 47.46 | -49.38 | -13.00 | -36.38 | 1.01 V | 0 | 54.79 | -104.17 |
| 2 | 103.72 | -47.88 | -13.00 | -34.88 | 1.01 V | 302 | 59.97 | -107.85 |
| 3 | 156.10 | -52.97 | -13.00 | -39.97 | 1.01 V | 302 | 50.78 | -103.75 |
| 4 | 237.58 | -44.70 | -13.00 | -31.70 | 1.49 V | 94 | 60.41 | -105.11 |
| 5 | 282.20 | -56.68 | -13.00 | -43.68 | 1.49 V | 240 | 46.38 | -103.06 |
| 6 | 516.94 | -59.26 | -13.00 | -46.26 | 1.49 V | 238 | 39.82 | -99.08 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



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 according to ISO/IEC 17025.

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

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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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