5.8 Conducted Emission

5.8.1 Measuring Instruments

As described in chapter 6 of this test Report.

The receiver setting:

150 KHz ~ 30 MHz Detector : Quasi – Peak and Average Bandwidth : 9 KHz

5.8.2 Test Procedures:

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power port of a line impedance stabilization network (LISN).
- c. All the support units are connected to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

SPORTON International Inc.

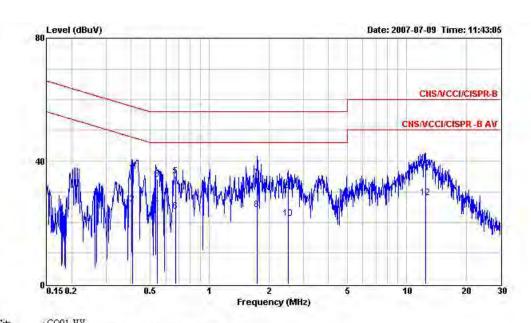
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID.: UFOBC0164AAA390 Page Number : 34 of 62
Report Issued Date : Jul. 17, 2007
Report Version : Rev. 01

5.8.3 Test Data

 Temperature : 24~25 °C Relating Humidity: 51~53 % Test Engineer: Louis

Test Mode : Mode 1

The test that passed at minimum margin was marked by the frame in the following table.



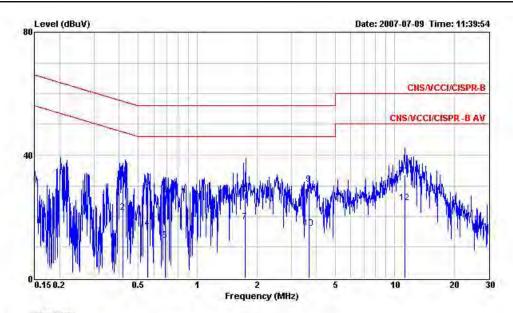
Site Condition EUT

Power Model Memo Memo Memo

CO01-HY
CNS/VCCI/CISPR-B 2001/004 200604 LINE
Mobile Phone
120V/60H2
FR762206
GSM850 IDLE+BT LINK+WLAN LINK
SCANER 1+ADAPTOR 1+MPEG4+Earphone

| Memo | 000 | | | | | | | |
|------|---------|--------|--------|-------|-------|--------|-------|---------|
| | | | Over | Limit | Read | Probe | Cable | |
| | Freq | Level | Limit | Line | Level | Factor | Loss | Remark |
| 7 | MHz | dBuV | dB | dBu∀ | dBuV | dB | dB | |
| 1 | 0.406 | 36.22 | -21.51 | 57.73 | 36.08 | 0.10 | 0.04 | QP |
| 2 | 0.406 | 25.93 | -21.80 | 47.73 | 25.79 | 0.10 | 0.04 | Average |
| 3 | 0.541 | 34.14 | -21.86 | 56.00 | 33.96 | 0.10 | 0.08 | QP |
| 4 | 0.541 | 25.52 | -20.48 | 46.00 | 25.34 | 0,10 | 0.08 | Average |
| 5 | 0.672 | 34.99 | -21.01 | 56.00 | 34.78 | 0.10 | 0.11 | QP |
| 6 | 0.672 | 23.55 | -22.45 | 46.00 | 23.34 | 0.10 | 0.11 | Average |
| 7 | 1.740 | 34.62 | -21.38 | 56.00 | 34.29 | 0.10 | 0.23 | QP |
| 8 | 1.740 | 24.09 | -21.91 | 46.00 | 23.76 | 0,10 | 0.23 | Average |
| 9 | 2.499 | 30.52 | -25.48 | 56.00 | 30.18 | 0.13 | 0.21 | QP |
| 10 | 2.499 | 21.27 | -24.73 | 46.00 | 20.93 | 0.13 | 0.21 | Average |
| 11 | 12.447 | 36.18 | -23.82 | 60.00 | 35.64 | 0.30 | 0.24 | QP |
| 12 | 12, 447 | 28, 14 | -21.86 | 50.00 | 27,60 | 0.30 | 0.24 | Average |

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID.: UFOBC0164AAA390 Page Number : 35 of 62 Report Issued Date : Jul. 17, 2007 Report Version : Rev. 01



Site Condition EUT Power Model Memo Memo Memo

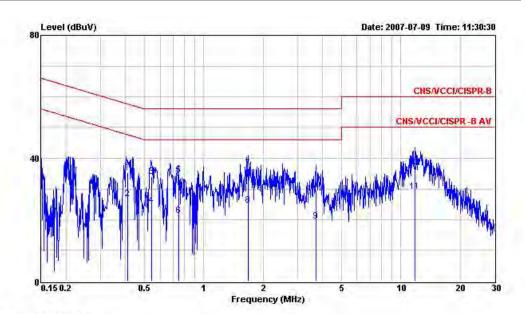
CO01-HY
CNS/YCCI/CISPR-B 2001/004 200604 NEUTRAL
Mobile Phone
120V/60H2
FR762206
GSM850 IDLE+BT LINK+WLAN LINK
SCANER 1+ADAPTOR 1+MPEG4+Earphone

| Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark |
|--------|--|--|---|--|---|--|---|
| MHz | dBuV | dB | dBu∀ | dBuV | dB | dB | |
| 0.418 | 33.68 | -23.80 | 57.48 | 33.53 | 0.10 | 0.05 | QP |
| 0.418 | 21.31 | -26.17 | 47.48 | 21.16 | 0.10 | 0.05 | Average |
| 0.558 | 29.41 | -26.59 | 56.00 | 29.22 | 0.10 | 0.09 | QP |
| 0.558 | 16.05 | -29.95 | 46.00 | 15.86 | 0.10 | 0.09 | Average |
| 0.687 | 12.09 | -33.91 | 46.00 | 11.87 | 0.10 | 0.12 | Average |
| 0.687 | 26.89 | -29.11 | 56.00 | 26.67 | 0.10 | 0.12 | QP |
| 1.747 | 18.13 | -27.87 | 46.00 | 17.80 | 0.10 | 0.23 | Average |
| 1.747 | 27.44 | -28.56 | 56.00 | 27.11 | 0.10 | 0.23 | QP |
| 3.679 | 30.29 | -25.71 | 56.00 | 30.02 | 0.10 | 0.17 | QP |
| 3.679 | 16.21 | -29.79 | 46.00 | 15.94 | 0.10 | 0.17 | Average |
| 11.260 | 33.59 | -26.41 | 60.00 | 33.07 | 0.23 | 0.29 | QP |
| 11,260 | 24.48 | -25.52 | 50.00 | 23.96 | 0.23 | 0.29 | Average |
| | 0.418 0.418 0.558 0.558 0.687 0.687 1.747 1.747 3.679 3.679 11.260 | MHz dBuV 0.418 33.68 0.418 21.31 0.558 29.41 0.558 16.05 0.687 12.09 0.687 26.89 1.747 18.13 1.747 27.44 3.679 30.29 3.679 16.21 11.260 33.59 | MHz dBuV dB 0.418 33.68 -23.80 0.418 21.31 -26.17 0.558 29.41 -26.59 0.558 16.05 -29.95 0.687 12.09 -33.91 1.747 18.13 -27.87 1.747 27.44 -28.56 3.679 30.29 -25.71 3.679 16.21 -29.79 11.260 33.59 -26.41 | Freq Level Limit Line MHz dBuV dB dBuV 0.418 33.68 -23.80 57.48 0.418 21.31 -26.17 47.48 0.558 29.41 -26.59 56.00 0.558 16.05 -29.95 46.00 0.687 12.09 -33.91 46.00 0.687 26.89 -29.11 56.00 1.747 18.13 -27.87 46.00 1.747 27.44 -28.56 56.00 3.679 30.29 -25.71 56.00 3.679 16.21 -29.79 46.00 11.260 33.59 -26.41 60.00 | Freq Level Limit Line Level MHz dBuV dB dBuV dBuV 0.418 33.68 -23.80 57.48 33.53 0.418 21.31 -26.17 47.48 21.16 0.558 29.41 -26.59 56.00 29.22 0.558 16.05 -29.95 46.00 15.86 0.687 12.09 -33.91 46.00 11.87 0.687 26.89 -29.11 56.00 26.67 1.747 18.13 -27.87 46.00 17.80 1.747 27.44 -28.56 56.00 27.11 3.679 30.29 -25.71 56.00 30.02 3.679 16.21 -29.79 46.00 15.94 11.260 33.59 -26.41 60.00 33.07 | Freq Level Limit Line Level Factor MHz dBuV dB dBuV dBuV dB 0.418 33.68 -23.80 57.48 33.53 0.10 0.418 21.31 -26.17 47.48 21.16 0.10 0.558 29.41 -26.59 56.00 29.22 0.10 0.558 16.05 -29.95 46.00 15.86 0.10 0.687 12.09 -33.91 46.00 11.87 0.10 1.747 18.13 -27.87 46.00 17.80 0.10 1.747 18.13 -27.87 46.00 17.80 0.10 3.679 30.29 -25.71 56.00 27.11 0.10 3.679 16.21 -29.79 46.00 15.94 0.10 11.260 33.59 -26.41 60.00 33.07 0.23 | MHz dBuV dB dBuV dE dEuvel Factor Loss 0.418 33.68 -23.80 57.48 33.53 0.10 0.05 0.418 21.31 -26.17 47.48 21.16 0.10 0.05 0.558 29.41 -26.59 56.00 29.22 0.10 0.09 0.558 16.05 -29.95 46.00 15.86 0.10 0.09 0.687 12.09 -33.91 46.00 11.87 0.10 0.12 1.747 18.13 -27.87 46.00 17.80 0.10 0.23 1.747 27.44 -28.56 56.00 27.11 0.10 0.23 3.679 30.29 -25.71 56.00 30.02 0.10 0.17 3.679 16.21 -29.79 46.00 15.94 0.10 0.17 11.260 33.59 -26.41 60.00 33.07 0.23 0.29 |

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID.: UFOBC0164AAA390 Page Number : 36 of 62 Report Issued Date : Jul. 17, 2007 Report Version : Rev. 01

 Temperature : 24~25 °C Relating Humidity: 51~53 % Test Engineer : Louis Test Mode : Mode 2

The test that passed at minimum margin was marked by the frame in the following table.



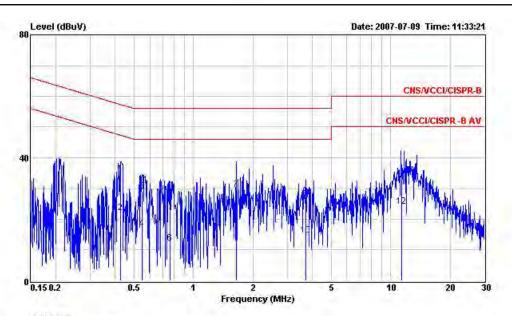
Site Condition EUT

CO01-HY
CNS/VCCI/CISPR-B 2001/004 200604 LINE
Mobile Phone
120V/60Hz
FRF762206
GSM850 IDLE+BT LINK+WLAN LINK
SCANER 2+ADAPTOR 1+MPEG4+Earphone Power Model Memo Memo Memo

| rionas | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark |
|------------------|--------|-------|---------------|---------------|---------------|-----------------|---------------|---------|
| - | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 | 0.412 | 35.22 | -22.40 | 57.62 | 35.08 | 0.10 | 0.04 | QP |
| 2 | 0.412 | 26.62 | -21.00 | 47.62 | 26.48 | 0.10 | 0.04 | Average |
| 1 2 3 4 | 0.544 | 34.06 | -21.94 | 56.00 | 33.88 | 0.10 | 0.08 | QP |
| 4 | 0.544 | 24.80 | -21.20 | 46.00 | 24.62 | 0.10 | 0.08 | Average |
| 5 | 0.743 | 34.45 | -21.55 | 56.00 | 34.22 | 0.10 | 0.13 | QP |
| 6 | 0.743 | 21.18 | -24.82 | 46.00 | 20.95 | 0.10 | 0.13 | Average |
| 7 | 1.679 | 36.68 | -19.32 | 56.00 | 36.36 | 0.10 | 0.22 | QP |
| 8 | 1.679 | 24.73 | -21.27 | 46.00 | 24.41 | 0.10 | 0.22 | Average |
| 9 | 3.720 | 19.36 | -26.64 | 46.00 | 19.00 | 0.19 | 0.17 | Average |
| 10 | 3.720 | 29.67 | -26.33 | 56.00 | 29.31 | 0.19 | 0.17 | QP |
| 11 | 11.810 | 28.97 | -21.03 | 50.00 | 28.40 | 0.30 | 0.27 | Average |
| 12 | 11.810 | 37.04 | -22.96 | 60.00 | 36.47 | 0.30 | 0.27 | QP |
| | | | | | | | | |

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID.: UFOBC0164AAA390

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Site Condition EUT Power Model Memo Memo Memo

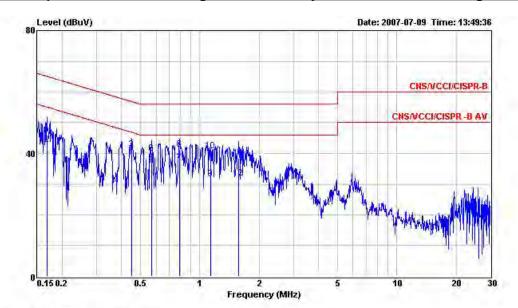
CO01-HY
CNS/YCCI/CISPR-B 2001/004 200604 NEUTRAL
Mobile Phone
120V/60Hz
FRF/62206
GSM850 IDLE+BT LINK+WLAN LINK
SCANER 2+ADAPTOR 1+MPEG4+Earphone

| | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark |
|----|--------|-------|---------------|---------------|---------------|-----------------|---------------|---------|
| - | MHz | dBuV | dB | dBuV | dBuV | ——dB | dB | |
| 1 | 0.426 | 34.69 | -22.64 | 57.33 | 34.54 | 0.10 | 0.05 | QP |
| 2 | 0.426 | 22.07 | -25.26 | 47.33 | 21.92 | 0.10 | 0.05 | Average |
| 3 | 0.550 | 29.16 | -26.84 | 56.00 | 28.98 | 0.10 | 0.08 | QP |
| 4 | 0.550 | 16.84 | -29.16 | 46.00 | 16.66 | 0.10 | 0.08 | Average |
| 5 | 0.759 | 26.25 | -29.75 | 56.00 | 26.02 | 0.10 | 0.13 | QP |
| 6 | 0.759 | 12.09 | -33,91 | 46.00 | 11.86 | 0.10 | 0.13 | Average |
| 7 | 1.650 | 29.67 | -26.33 | 56,00 | 29.35 | 0.10 | 0.22 | QP |
| 8 | 1.650 | 19.36 | -26.64 | 46.00 | 19.04 | 0.10 | 0.22 | Average |
| 9 | 3.720 | 27.45 | -28.55 | 56.00 | 27.18 | 0.10 | 0.17 | QP |
| 10 | 3.720 | 14.87 | -31.13 | 46.00 | 14.60 | 0.10 | 0.17 | Average |
| 11 | 11.319 | 32.88 | -27.12 | 60.00 | 32.36 | 0.23 | 0.29 | QP |
| 12 | 11.319 | 24.25 | -25.75 | 50.00 | 23.73 | 0.23 | 0.29 | Average |

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID.: UFOBC0164AAA390 Page Number : 38 of 62 Report Issued Date : Jul. 17, 2007 Report Version : Rev. 01

 Temperature : 24~25 °C Relating Humidity: 51~53 % Test Engineer : Louis

Test Mode: Mode 3 The test that passed at minimum margin was marked by the frame in the following table.



Site Condition EUT

Power Model

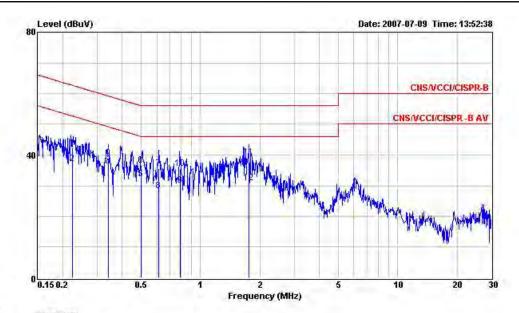
: CO01-HY CNS/VCCI/CISPR-B 2001/004 200604 LINE Mobile Phone : 120V/60H2 FR762206 GSM850 IDLE+BT LINK+WLAN LINK : SCANER 2+USB 1 LINK+MPEG4+Exphone Memo

Memo Memo

| ******* | | | | | | | | | |
|---------|-------|-------|---------------|----------------|---------------|-----------------|---------------|---------|--|
| | Freq | Level | Over Limit | Limit. Line | Read Level | Probe Factor | Cable Loss | Remark | |
| | MHz | dBu∀ | dB | dBu∀ | dBuV | dB | dB | | |
| 1 | 0.168 | 44.57 | -20.49 | 65.06 | 44.38 | 0.10 | 0.09 | QP | |
| 2 | 0.168 | 42.83 | -12,23 | 55.06 | 42.64 | 0.10 | 0.09 | Average | |
| 3 | 0.450 | 41.36 | -15.51 | 56.87 | 41.20 | 0.10 | 0.06 | QP | |
| 4 | 0.450 | 40.17 | -6.70 | 46.87 | 40.01 | 0.10 | 0.06 | Average | |
| 5 | 0.567 | 36.88 | -9.12 | 46.00 | 36.69 | 0.10 | 0.09 | Average | |
| 6 | 0.567 | 40.09 | -15.91 | 56.00 | 39.90 | 0.10 | 0.09 | QP | |
| 7 | 0.789 | 36.85 | -9.15 | 46.00 | 36.61 | 0.10 | 0.14 | Average | |
| 8 | 0.789 | 41.24 | -14.76 | 56.00 | 41.00 | 0.10 | 0.14 | QP | |
| 9 | 1.134 | 31.74 | -14.26 | 46.00 | 31.46 | 0.10 | 0.18 | Average | |
| 10 | 1.134 | 40.74 | -15.26 | 56.00 | 40.46 | 0,10 | 0.18 | QP | |
| 11 | 1.579 | 38.49 | -17.51 | 56.00 | 38.17 | 0.10 | 0.22 | QP | |
| 12 | 1.579 | 31.86 | -14.14 | 46.00 | 31.54 | 0.10 | 0.22 | Average | |

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID.: UFOBC0164AAA390

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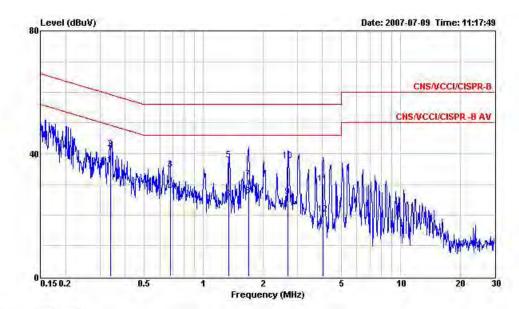
: CO01-HY : CNS/VCCI/CISPR-B 2001/004 200604 NEUTRAL : Mobile Phone : 120V/60H2 : FR762206 : GSM850 IDLE+BT LINK+WLAN LINK : SCANER 2+USB 1 LINK+MPEG4+Earphone Site Condition EUT Power Model Memo Memo Memo

| MEIIM | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable | Remark |
|-------|-------|-------|---------------|---------------|---------------|-----------------|-------|---------|
| | 1104 | 20001 | DIMI O | name. | 20,02 | 140001 | 2000 | |
| | MHz | dBu∀ | dB | dBuV | dBu∀ | dB | dB | |
| 1 | 0.223 | 42.26 | -20.44 | 62.70 | 42.07 | 0.10 | 0.09 | QP |
| 2 | 0.223 | 37.05 | -15.65 | 52.70 | 36.86 | 0.10 | 0.09 | Average |
| 3 | 0.340 | 37.72 | -21.49 | 59.21 | 37.57 | 0.10 | 0.05 | QP |
| 4 | 0.340 | 35.80 | -13.41 | 49.21 | 35.65 | 0.10 | 0.05 | Average |
| 5 | 0.501 | 32.25 | -13.75 | 46.00 | 32.08 | 0.10 | 0.07 | Average |
| 6 | 0.501 | 36.63 | -19.37 | 56.00 | 36.46 | 0.10 | 0.07 | QP |
| 7 | 0.615 | 35.60 | -20.40 | 56.00 | 35.40 | 0.10 | 0.10 | QP |
| 8 | 0.615 | 28.28 | -17.72 | 46.00 | 28.08 | 0.10 | 0.10 | Average |
| 9 | 0.787 | 30.01 | -15.99 | 46.00 | 29.77 | 0.10 | 0.14 | Average |
| 10 | 0.787 | 35.52 | -20.48 | 56.00 | 35.28 | 0.10 | 0.14 | QP |
| 11 | 1.754 | 39.34 | -16.66 | 56.00 | 39.01 | 0.10 | 0.23 | QP |
| 12 | 1.754 | 30.79 | -15.21 | 46.00 | 30.46 | 0.10 | 0.23 | Average |

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID.: UFOBC0164AAA390 Page Number : 40 of 62 Report Issued Date : Jul. 17, 2007 Report Version : Rev. 01

 Temperature : 24~25 °C Relating Humidity: 51~53 % Test Engineer : Louis Test Mode: Mode 4

The test that passed at minimum margin was marked by the frame in the following table.



Site Condition EUT Power Model Memo

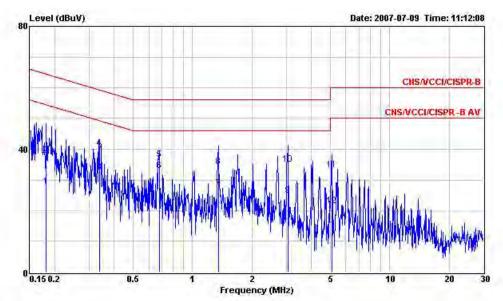
CO01-HY
CNS/YCCI/CISPR-B 2001/004 200604 LINE
Mobile Phone
120V/60H2
FR762206
GSM850 IDLE+USB2 LINK+BT LINK+WLAN LINK
SCANER 2+ADAPTOR 2+MPEG4+CRADLE

Memo Memo

| MENTO | | | | | | | | | |
|------------------|-------|-------|---------------|---------------|---------------|-----------------|---------------|---------|---|
| be reserve | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark | |
| - | MHz | dBuV | dB | dBuV | dBuV | dB | dB | | |
| 1 | 0.339 | 36.36 | -12.86 | 49.22 | 36.21 | 0,10 | 0.05 | Average | ٦ |
| 2 | 0.339 | 41.61 | -17.61 | 59.22 | 41.46 | 0.10 | 0.05 | QP | |
| 2 | 0.679 | 34.73 | -21.27 | 56.00 | 34.52 | 0.10 | 0.11 | QP | |
| | 0.679 | 27.45 | -18.55 | 46.00 | 27.24 | 0.10 | 0.11 | Average | |
| 5 | 1.349 | 38.02 | -17.98 | 56,00 | 37.72 | 0.10 | 0.20 | QP | |
| 4 5 6 7 | 1.349 | 25.29 | -20.71 | 46.00 | 24.99 | 0.10 | 0.20 | Average | |
| | 1.689 | 31.76 | -24.24 | 56.00 | 31.44 | 0.10 | 0.22 | QP | |
| 8 | 1.689 | 26.15 | -19.85 | 46.00 | 25.83 | 0.10 | 0.22 | Average | |
| 9 | 2.683 | 26,00 | -20.00 | 46.00 | 25.65 | 0.14 | 0.21 | Average | |
| 10 | 2.683 | 37.74 | -18.26 | 56.00 | 37.39 | 0.14 | 0.21 | QP | |
| 11 | 4.049 | 30.00 | -26.00 | 56.00 | 29.64 | 0.20 | 0.16 | QP | |
| 12 | 4.049 | 20.37 | -25.63 | 46.00 | 20.01 | 0.20 | 0.16 | Average | |

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID.: UFOBC0164AAA390

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 Site
 : CO01-HY

 Condition
 : CNS/VCCI/CISPR-B 2001/004 200604 NEUTRAL

 EUT
 : Mobile Phone

 Power
 : 120V/80Hz

 Model
 : FR762206

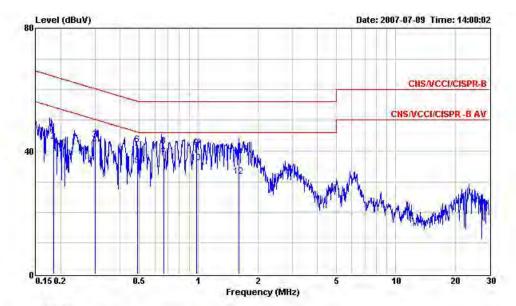
Memo :GSM850 IDLE+USB2 LINK+BT LINK+WLAN LINK Memo :SCANER 2+ADAPTOR 2+MPEG4+CRADLE

Memo Over Limit Read Probe Cable Freq Level Limit Line Level Factor Loss Remark dB MHz dBuV dB dBuV dBuV dB 0.181 27.75 -26.70 54.45 27.56 1 0.10 0.09 Average 2 0.181 37.93 -26.52 64.45 37.74 0.10 0.09 QP 3 0.337 32.44 -16.83 49.27 32.29 0.10 0.05 Average 4 0.337 40.28 -18.99 59.27 40.13 0.05 QP 0.10 0.678 36.53 -19.47 56.00 36.32 0.11 QP 5 0.10 6 0.678 33.08 -12.92 46.00 32.87 0.10 0.11 Average 1.350 27.28 -18.72 46.00 26.98 0.10 0.20 Average 1.350 34.38 -21.62 56.00 34.08 0.10 0.20 QP 3.047 25.04 -20.96 46.00 24.75 3.047 35.08 -20.92 56.00 34.79 9 0.19 Average 0.10 10 0.10 0.19 QP 11 5.080 33.16 -26.84 60.00 32.82 0.13 0.21 QP 12 5.080 21.54 -28.46 50.00 21.20 0.13 0.21 Average

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID.: UFOBC0164AAA390 Page Number : 42 of 62
Report Issued Date : Jul. 17, 2007
Report Version : Rev. 01

 Temperature : 24~25 °C Relating Humidity: 51~53 % Test Engineer : Louis Test Mode: Mode 5

The test that passed at minimum margin was marked by the frame in the following table.

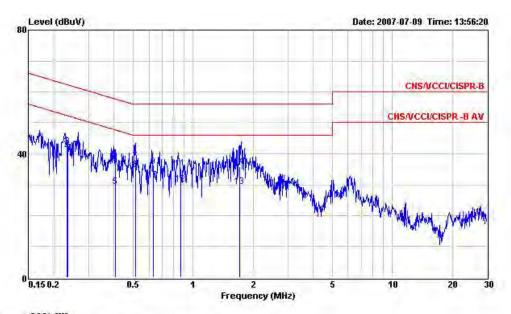


CO01-HY
CNS/VCCI/CISPR-B 2001/004 200604 LINE
Mobile Phone
120V/60Hz
FRF762206
PCS1900 IDLE+BT LINK+WLAN LINK
SCANER 2+USB 1 LINK+MPEG4+Earphone Site Condition EUT Power Model Memo Memo

| Memo | 0.0 | | - | | 100 | | | |
|------|-------|-------|--------|-------|-------|--------|-------|---------|
| | | | Over | Limit | Read | Probe | Cable | |
| | Freq | Level | Limit | Line | Level | Factor | Loss | Remark |
| - | MHz | dBuV | dB | dBuV | dBuV | dB | dB | _ |
| | | 44.56 | -19.70 | 64.26 | 44.37 | 0.10 | 0.09 | QP |
| | | 42.99 | -11.27 | 54.26 | 42.80 | 0.10 | 0.09 | Average |
| 3 | 0.299 | 43.52 | -16.75 | 60.27 | 43.35 | 0.10 | 0.07 | QP |
| 4 | 0.299 | 41.71 | -8.56 | 50.27 | 41.54 | 0.10 | 0.07 | Average |
| 5 | 0.490 | 35.28 | -10.88 | 46.16 | 35.11 | 0.10 | 0.07 | Average |
| 6 | 0.490 | 42.00 | -14.16 | 56.16 | 41.83 | 0.10 | 0.07 | QP |
| 7 | 0.665 | 38.00 | -8.00 | 46.00 | 37.79 | 0.10 | 0.11 | Average |
| 8 | 0.665 | 41.65 | -14.35 | 56.00 | 41.44 | 0.10 | 0.11 | QP |
| 9 | 0.982 | 41.04 | -14.96 | 56.00 | 40.77 | 0.10 | 0.17 | QP |
| 10 | 0.982 | 36.12 | -9.88 | 46.00 | 35.85 | 0.10 | 0.17 | Average |
| 11 | 1.597 | 37.90 | -18.10 | 56.00 | 37.58 | 0.10 | 0.22 | QP |
| 12 | 1.597 | 31.71 | -14.29 | 46.00 | 31.39 | 0.10 | 0.22 | Average |

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Site Condition EUT Power Model Memo Memo Memo

CO01-HY
CNS/VCCI/CISPR-B 2001/004 200604 NEUTRAL
Mobile Phone
120V/60Hz
FR762206
PCS1900 IDLE+BT LINK+WLAN LINK
SCANER 2+USB 1 LINK+MPEG4+Earphone

| | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark |
|----|-------|-------|---------------|---------------|---------------|-----------------|---------------|---------|
| - | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 | 0.232 | 42.56 | -19.80 | 62.36 | 42.37 | 0.10 | 0.09 | QP |
| 2 | 0.232 | 41.20 | -11.16 | 52.36 | 41.01 | 0.10 | 0.09 | Average |
| 3 | 0.235 | 42.43 | -19.86 | 62.29 | 42.24 | 0.10 | 0.09 | QP |
| 4 | 0.235 | 41.68 | -10.61 | 52.29 | 41.49 | 0.10 | 0.09 | Average |
| 5 | 0.406 | 29,38 | -18.34 | 47.72 | 29.24 | 0.10 | 0.04 | Average |
| 6 | 0.406 | 36.79 | -20.93 | 57.72 | 36.65 | 0.10 | 0.04 | QP |
| 7 | 0,516 | 37.57 | -18.43 | 56.00 | 37.39 | 0.10 | 0.08 | QP |
| 8 | 0.516 | 34.92 | -11.08 | 46.00 | 34.74 | 0.10 | 0.08 | Average |
| 9 | 0.631 | 35.76 | -20.24 | 56,00 | 35.56 | 0.10 | 0.10 | QP |
| 10 | 0.631 | 31.42 | -14.58 | 46.00 | 31.22 | 0.10 | 0.10 | Average |
| 11 | 0.863 | 35.23 | -20.77 | 56.00 | 34.98 | 0.10 | 0.15 | QP |
| 12 | 0.863 | 30.24 | -15.76 | 46.00 | 29.99 | 0.10 | 0.15 | Average |
| 13 | 1.711 | 29.28 | -16.72 | 46,00 | 28.96 | 0,10 | 0.22 | Average |
| 14 | 1.711 | 35.80 | -20.20 | 56.00 | 35.48 | 0.10 | 0.22 | OP |

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5.9 Radiated Emission Measurement

5.9.1 Measuring Instruments

As described in chapter 6 of this Report.

The spectrum analyzer setting:

| 30 ~ 1000 MHz | Detector : Quasi – Peak Bandwidth : 120 KHz |
|---------------|--|
| 1 ~ 25 GHz | Detector : Peak and Average Bandwidth : 1 MHz |

5.9.2 Test Procedures

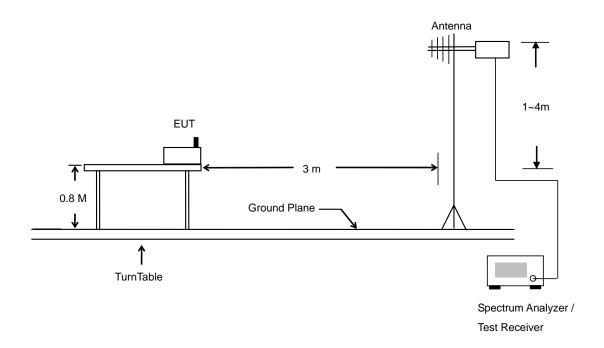
- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- 7. For testing below 1GHz, If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
- 8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

SPORTON International Inc.

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5.9.3 Typical Test Setup Layout of Radiated Emission



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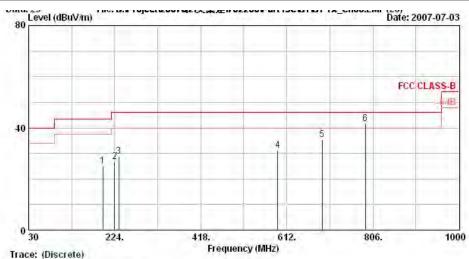
5.9.4 Test Data

Temperature: 24~25°C
Relating Humidity: 48~49%
Test Engineer: Sam

Test Mode : Mode 1

Polarization : Horizontal (30MHz-1GHz)

The test that passed at the minimum margin was marked by the frame in the following test record



Site Condition EUT Power Model Memo Data Rate Trace: (Discrete)
: 03CH06-HY
: LF-ANT(951121) HORTZONTAL
: Mobile Phone
: 120Vac/60Hz
: FF 762206
: BT T*_Ch00;2402MHz
: DH5
: F2

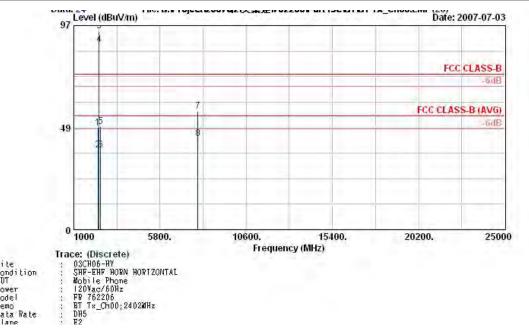
| | Eroc | | Lovol | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | |
|---|------|--------|----------|--------|----------|--------|---------|-------|--------|--------|-------|--------|
| | | quency | Level | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Remark |
| | (IV | ⁄lHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | |
| 1 | 19 | 7.13 | 24.85 | -18.65 | 43.50 | 45.02 | 9.32 | 1.53 | 31.02 | - | - | Peak |
| 2 | 22 | 4.13 | 26.63 | -19.37 | 46.00 | 45.26 | 10.73 | 1.63 | 30.99 | - | - | Peak |
| 3 | 23 | 3.58 | 28.81 | -17.19 | 46.00 | 46.77 | 11.30 | 1.67 | 30.93 | - | - | Peak |
| 4 | 59 | 1.90 | 31.33 | -14.67 | 46.00 | 40.69 | 18.38 | 2.93 | 30.67 | - | - | Peak |
| 5 | 69 | 1.30 | 35.47 | -10.53 | 46.00 | 44.00 | 18.85 | 3.22 | 30.60 | - | - | Peak |
| 6 | ! 78 | 9.30 | 41.60 | -4.40 | 46.00 | 48.99 | 19.72 | 3.39 | 30.50 | 100.00 | 24.00 | Peak |

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FCC TEST REPORT Report No. : FR762206-B

Polarization : Horizontal (1GHz-25GHz)

The test that passed at minimum margin was marked by the boldface in the following table.



| | | Гтолиопои | Lovel | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | |
|---|---|-----------|----------|--------|----------|--------|---------|-------|--------|--------|--------|---------|
| | | Frequency | Level | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Remark |
| | | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | |
| 1 | | 2341.92 | 48.24 | -25.76 | 74.00 | 49.69 | 30.26 | 3.75 | 35.46 | 100.00 | 0.00 | Peak |
| 2 | | 2341.92 | 37.89 | -16.11 | 54.00 | 39.36 | 30.24 | 3.71 | 35.42 | 100.00 | 339.00 | Average |
| 3 | Χ | 2402.00 | 94.47 | | | 95.90 | 30.26 | 3.77 | 35.46 | 100.00 | 0.00 | Peak |
| 4 | Χ | 2402.00 | 87.90 | | | 89.33 | 30.26 | 3.77 | 35.46 | 100.00 | 339.00 | Average |
| 5 | | 2488.00 | 49.16 | -24.84 | 74.00 | 50.51 | 30.30 | 3.86 | 35.51 | 100.00 | 0.00 | Peak |
| 6 | | 2488.00 | 37.98 | -16.02 | 54.00 | 39.33 | 30.30 | 3.86 | 35.51 | 100.00 | 339.00 | Average |
| 7 | | 7902.00 | 56.30 | -17.70 | 74.00 | 44.96 | 39.46 | 7.76 | 35.88 | 100.00 | 0.00 | Peak |
| 8 | | 7902.00 | 43.13 | -10.87 | 54.00 | 31.79 | 39.46 | 7.76 | 35.88 | 100.00 | 255.00 | Average |

Remark: "X" represents the Fundamental Signal

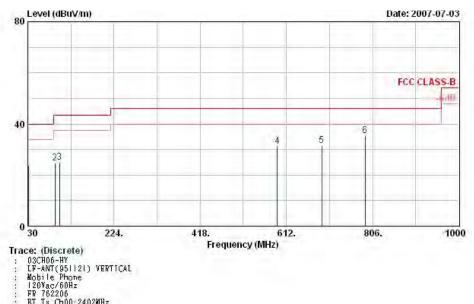
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Site Condition FUT

CC TEST REPORT Report No. : FR762206-B

Polarization : Vertical (30MHz-1GHz)

The test that passed at minimum margin was marked by the boldface in the following table.



| Power Model Memo Data Rate Plane | : 120 : FR |)Yac/60Hz 762206 Ts_Ch00;2402M | 1Hz | | | | | |
|--|---------------|--------------------------------------|-------|-----------|--------|---------|-------|---|
| | | Laval | Over | Limit | Read | Antenna | Cable | Р |
| | uency | Level | Limit | Line | Level | Factor | Loss | ı |
| (IVI | Hz) | (dBuV/m) | (AD) | (dDu\//m) | (4D\/) | (dD/m) | (AD) | |

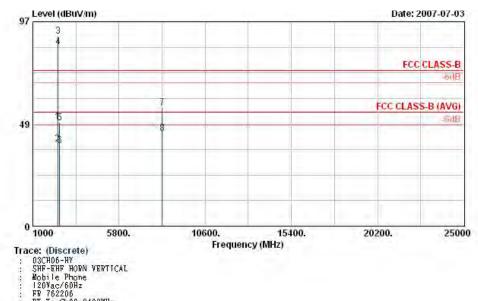
| | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | rabie | |
|---|-----------|----------|--------|----------|--------|---------|-------|--------|--------|-------|--------|
| | (MHz) | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Remark |
| | (IVITIZ) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | |
| 1 | 31.08 | 23.84 | -16.16 | 40.00 | 35.68 | 18.95 | 0.64 | 31.43 | - | - | Peak |
| 2 | 91.29 | 24.57 | -18.93 | 43.50 | 45.42 | 9.23 | 1.04 | 31.12 | - | - | Peak |
| 3 | 101.28 | 24.93 | -18.57 | 43.50 | 43.94 | 11.07 | 1.07 | 31.15 | - | - | Peak |
| 4 | 591.90 | 31.18 | -14.82 | 46.00 | 40.54 | 18.38 | 2.93 | 30.67 | - | - | Peak |
| 5 | 691.30 | 31.51 | -14.49 | 46.00 | 40.04 | 18.85 | 3.22 | 30.60 | - | - | Peak |
| 6 | 789.30 | 35.51 | -10.49 | 46.00 | 42.90 | 19.72 | 3.39 | 30.50 | 100.00 | 53.00 | Peak |

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FCC TEST REPORT Report No. : FR762206-B

Polarization : Vertical (1GHz-25GHz)

The test that passed at minimum margin was marked by the boldface in the following table.



| Site | | 03CH06-HY |
|-----------|------|-----------------------|
| Condition | - 33 | SHF-EHF HORN VERTICAL |
| EUT | | Mobile Phone |
| Power | | 120Vac/60Hz |
| Model | | FR 762206 |
| Memo | - 00 | BT Ta_Ch00; 2402MHz |
| Data Rate | - 1 | DH5 |
| Plane | | E2 |
| | | |

| | | Fraguenay | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | |
|---|---|--------------------|------------|--------|----------|--------|---------|-------|--------|--------|--------|---------|
| | | Frequency (MHz) | (dBuV/m) | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Remark |
| | | (IVITIZ) | (ubuv/III) | (dB) | (dBuV/m) | (dBuV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | |
| 1 | | 2387.36 | 49.24 | -24.76 | 74.00 | 50.71 | 30.24 | 3.71 | 35.42 | 100.00 | 0.00 | Peak |
| 2 | | 2387.36 | 38.88 | -15.12 | 54.00 | 40.31 | 30.26 | 3.75 | 35.44 | 100.00 | 278.00 | Average |
| 3 | Χ | 2402.00 | 90.30 | | | 91.73 | 30.26 | 3.77 | 35.46 | 100.00 | 0.00 | Peak |
| 4 | Χ | 2402.00 | 84.95 | | | 86.38 | 30.26 | 3.77 | 35.46 | 100.00 | 278.00 | Average |
| 5 | | 2483.50 | 48.94 | -25.06 | 74.00 | 50.30 | 30.29 | 3.86 | 35.51 | 100.00 | 0.00 | Peak |
| 6 | | 2483.50 | 38.06 | -15.94 | 54.00 | 39.42 | 30.29 | 3.86 | 35.51 | 100.00 | 278.00 | Average |
| 7 | | 8202.00 | 56.29 | -17.71 | 74.00 | 44.80 | 39.43 | 8.02 | 35.96 | 100.00 | 0.00 | Peak |
| 8 | | 8202.00 | 43.88 | -10.12 | 54.00 | 32.39 | 39.43 | 8.02 | 35.96 | 100.00 | 255.00 | Average |

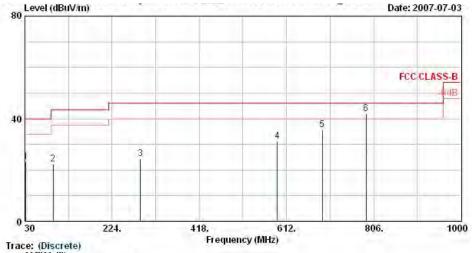
Remark: "X" represents the Fundamental Signal

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Test Mode : Mode 2

Polarization : Horizontal (30MHz-1GHz)

The test that passed at minimum margin was marked by the boldface in the following table.



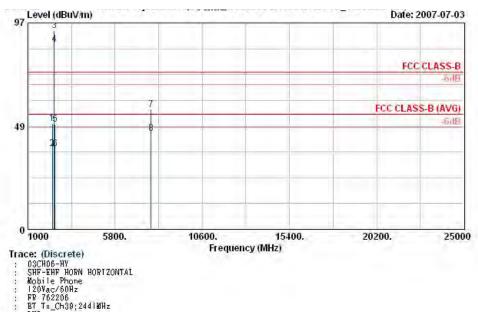
Site Condition EUT Power Model Memo Data Rate Plane

| | Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|---|--------------------|-------------------|-----------------------|---------------------------|-------------------------|-----------------------------|-----------------------|--------------------------|--------------------|-----------------------|--------|
| 1 | 31.89 | 23.30 | -16.70 | 40.00 | 35.79 | 18.25 | 0.65 | 31.39 | - | - | Peak |
| 2 | 92.64 | 22.35 | -21.15 | 43.50 | 42.79 | 9.62 | 1.05 | 31.11 | - | - | Peak |
| 3 | 287.04 | 24.32 | -21.68 | 46.00 | 40.42 | 12.97 | 1.89 | 30.96 | - | - | Peak |
| 4 | 591.90 | 31.23 | -14.77 | 46.00 | 40.59 | 18.38 | 2.93 | 30.67 | - | - | Peak |
| 5 | 691.30 | 35.76 | -10.24 | 46.00 | 44.29 | 18.85 | 3.22 | 30.60 | - | - | Peak |
| 6 | ! 789.30 | 42.06 | -3.94 | 46.00 | 49.45 | 19.72 | 3.39 | 30.50 | 100.00 | 259.00 | Peak |

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Polarization : Horizontal (1GHz-25GHz)

The test that passed at minimum margin was marked by the boldface in the following table.



| | Trace: (Discrete) |
|-----------|--------------------------|
| Site | : 03CH06-HY |
| Condition | : SHF-EHF HORN HORIZONTA |
| EUT | : Mobile Phone |
| Power | : 120Vac/60Hz |
| Model | FR 762206 |
| Memo | ; BT Tx_Ch39; 2441MHz |
| Data Rate | DH5 |
| Diano | . F2 |

| | | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | |
|---|---|-----------|----------|--------|----------|--------|---------|-------|--------|--------|--------|---------|
| | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Remark |
| | | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | |
| 1 | | 2338.00 | 49.69 | -24.31 | 74.00 | 51.16 | 30.24 | 3.69 | 35.40 | 100.00 | 0.00 | Peak |
| 2 | | 2338.00 | 37.97 | -16.03 | 54.00 | 39.44 | 30.24 | 3.69 | 35.40 | 100.00 | 335.00 | Average |
| 3 | Χ | 2441.00 | 93.22 | | | 94.59 | 30.28 | 3.82 | 35.47 | 100.00 | 0.00 | Peak |
| 4 | Χ | 2441.00 | 86.92 | | | 88.29 | 30.28 | 3.82 | 35.47 | 100.00 | 335.00 | Average |
| 5 | | 2484.00 | 49.57 | -24.43 | 74.00 | 50.93 | 30.29 | 3.86 | 35.51 | 100.00 | 0.00 | Peak |
| 6 | | 2484.00 | 38.04 | -15.96 | 54.00 | 39.40 | 30.29 | 3.86 | 35.51 | 100.00 | 335.00 | Average |
| 7 | | 7791.00 | 56.19 | -17.81 | 74.00 | 45.12 | 39.30 | 7.71 | 35.94 | 100.00 | 0.00 | Peak |
| 8 | | 7791.00 | 44.93 | -9.07 | 54.00 | 33.86 | 39.30 | 7.71 | 35.94 | 100.00 | 255.00 | Average |

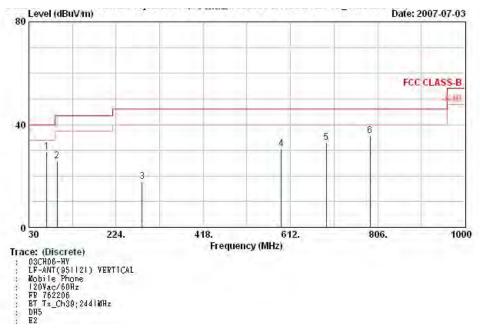
Remark: "X" represents the Fundamental Signal

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Polarization : Vertical (30MHz-1GHz)

The test that passed at minimum margin was marked by the boldface in the following table.



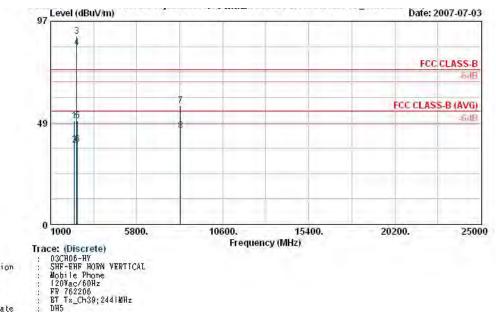
| Site | |
|-----------|--|
| Condition | |
| EUT | |
| Power | |
| Model | |
| Memo | |
| Data Rate | |
| Plane | |

| | Fraguenay | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | |
|---|--------------------|----------|--------|----------|--------|---------|-------|--------|--------|--------|--------|
| | Frequency (MHz) | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Remark |
| | (IVITZ) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | |
| 1 | 69.69 | 29.51 | -10.49 | 40.00 | 52.87 | 6.89 | 0.92 | 31.17 | - | - | Peak |
| 2 | 92.64 | 25.95 | -17.55 | 43.50 | 46.39 | 9.62 | 1.05 | 31.11 | - | - | Peak |
| 3 | 282.18 | 17.89 | -28.11 | 46.00 | 34.11 | 12.88 | 1.87 | 30.97 | - | - | Peak |
| 4 | 591.90 | 30.51 | -15.49 | 46.00 | 39.87 | 18.38 | 2.93 | 30.67 | - | - | Peak |
| 5 | 691.30 | 32.97 | -13.03 | 46.00 | 41.50 | 18.85 | 3.22 | 30.60 | - | - | Peak |
| 6 | 789.30 | 35.74 | -10.26 | 46.00 | 43.13 | 19.72 | 3.39 | 30.50 | 100.00 | 273.00 | Peak |

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Polarization : Vertical (1GHz-25GHz)

The test that passed at minimum margin was marked by the boldface in the following table.



| 03CH06-HY |
|-----------------------|
| SHF-EHF HORN VERTICAL |
| Mobile Phone |
| 120Vac/60Hz |
| FR 762206 |
| BT Tx_Ch39; 2441MHz |
| DH5 |
| E2 |

| | Eroguenev | Lovol | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | |
|---|-----------|--|---|---|--|---|---|---|--|-----------|---|
| | . , | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Remark |
| | (IVITZ) | (ubu v/III) | (dB) | (dBuV/m) | (dBuV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | |
| | 2314.00 | 49.43 | -24.57 | 74.00 | 50.95 | 30.22 | 3.66 | 35.40 | 100.00 | 0.00 | Peak |
| | 2314.00 | 37.83 | -16.17 | 54.00 | 39.35 | 30.22 | 3.66 | 35.40 | 100.00 | 276.00 | Average |
| Χ | 2441.00 | 89.94 | | | 91.31 | 30.28 | 3.82 | 35.47 | 100.00 | 0.00 | Peak |
| Χ | 2441.00 | 84.27 | | | 85.64 | 30.28 | 3.82 | 35.47 | 100.00 | 276.00 | Average |
| | 2484.00 | 49.28 | -24.72 | 74.00 | 50.64 | 30.29 | 3.86 | 35.51 | 100.00 | 0.00 | Peak |
| | 2484.00 | 38.06 | -15.94 | 54.00 | 39.42 | 30.29 | 3.86 | 35.51 | 100.00 | 276.00 | Average |
| | 8241.00 | 56.51 | -17.49 | 74.00 | 45.02 | 39.41 | 8.06 | 35.98 | 100.00 | 0.00 | Peak |
| | 8241.00 | 44.60 | -9.40 | 54.00 | 33.11 | 39.41 | 8.06 | 35.98 | 100.00 | 255.00 | Average |
| | | 2314.00 X 2441.00 X 2441.00 2484.00 2484.00 8241.00 | (MHz) (dBuV/m) 2314.00 49.43 2314.00 37.83 X 2441.00 89.94 X 2441.00 84.27 2484.00 49.28 2484.00 38.06 8241.00 56.51 | Frequency Level (MHz) (dBuV/m) (dB) 2314.00 49.43 -24.57 2314.00 37.83 -16.17 X 2441.00 89.94 X 2441.00 84.27 2484.00 49.28 -24.72 2484.00 38.06 -15.94 8241.00 56.51 -17.49 | Frequency (MHz) (dBuV/m) Limit Line (dB) (dBuV/m) 2314.00 49.43 -24.57 74.00 2314.00 89.94 X 2441.00 89.94 X 2441.00 84.27 2484.00 49.28 -24.72 74.00 2484.00 38.06 -15.94 54.00 8241.00 56.51 -17.49 74.00 | Frequency (MHz) (dBuV/m) (dBu (dBuV/m) (4BuV/m) | Frequency (MHz) (dBuV/m) Limit Line Level Factor (dB) (dBuV/m) (dBuV/m) (dBuV) (dB/m) 2314.00 49.43 -24.57 74.00 50.95 30.22 2314.00 37.83 -16.17 54.00 39.35 30.22 X 2441.00 89.94 91.31 30.28 X 2441.00 84.27 85.64 30.28 2484.00 49.28 -24.72 74.00 50.64 30.29 2484.00 38.06 -15.94 54.00 39.42 30.29 8241.00 56.51 -17.49 74.00 45.02 39.41 | Frequency (MHz) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV) (dB/m) (dB) 2314.00 49.43 -24.57 74.00 50.95 30.22 3.66 2314.00 37.83 -16.17 54.00 39.35 30.22 3.66 X 2441.00 89.94 91.31 30.28 3.82 X 2441.00 84.27 85.64 30.28 3.82 2484.00 49.28 -24.72 74.00 50.64 30.29 3.86 2484.00 38.06 -15.94 54.00 39.42 30.29 3.86 8241.00 56.51 -17.49 74.00 45.02 39.41 8.06 | Frequency (MHz) (dBuV/m) (dB) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) (dB) (dB) (dB) (dB) (dB) (dB) (dB) (dB | Frequency | Frequency (MHz) (dBuV/m) (dBuV/m) (dBuV/m) (dBuV) (dBwV) (dB/m) (dB) (dB) (cm) (deg) (deg) (dB) (dBuV/m) (dBuV) (dB/m) (dB) (dB) (dB) (cm) (deg) (deg) (dB) (dB) (dB) (dB) (dB) (dB) (dB) (dB |

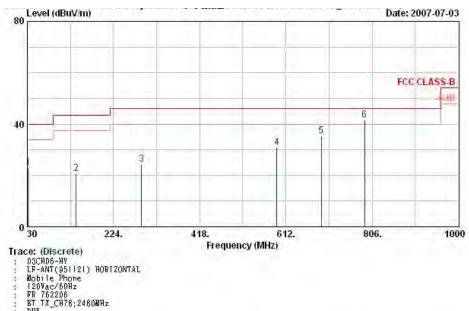
Remark: "X" represents the Fundamental Signal

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Test Mode : Mode 3

Polarization: Horizontal (30MHz-1GHz)

The test that passed at minimum margin was marked by the boldface in the following table.



| Site Conditi EUT Power | on. |
|-----------------------------------|-----|
| Model Memo Data Ra Plane | te |

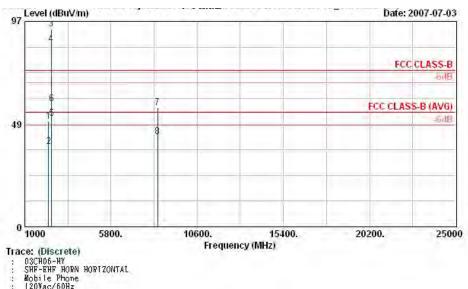
| 10 | ice: (Discrete) |
|----|---------------------------|
| | 03CH06-HY |
| | LF-ANT(951121) HORIZONTAL |
| | Mobile Phone |
| | 120Vac/60Hz |
| | FR 762206 |
| | BT TX_CH78; 2480MHz |
| | DH5 |
| | E2 |

| | Fraguenay | Lovel | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | |
|---|--------------------|-------------------|--------|----------|--------|---------|-------|--------|--------|-------|--------|
| | Frequency (MHz) | Level (dBuV/m) | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Remark |
| | (IVITIZ) | (ubu v/III) | (dB) | (dBuV/m) | (dBuV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | |
| 1 | 31.89 | 22.94 | -17.06 | 40.00 | 35.43 | 18.25 | 0.65 | 31.39 | - | - | Peak |
| 2 | 139.89 | 20.84 | -22.66 | 43.50 | 40.34 | 10.25 | 1.29 | 31.04 | - | - | Peak |
| 3 | 287.04 | 24.24 | -21.76 | 46.00 | 40.34 | 12.97 | 1.89 | 30.96 | - | - | Peak |
| 4 | 591.90 | 30.80 | -15.20 | 46.00 | 40.16 | 18.38 | 2.93 | 30.67 | - | - | Peak |
| 5 | 691.30 | 35.25 | -10.75 | 46.00 | 43.78 | 18.85 | 3.22 | 30.60 | - | - | Peak |
| 6 | ! 789.30 | 41.78 | -4.22 | 46.00 | 49.17 | 19.72 | 3.39 | 30.50 | 100.00 | 47.00 | Peak |

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Polarization : Horizontal (1GHz-25GHz)

The test that passed at minimum margin was marked by the boldface in the following table.



Site Condition EUT Power Model

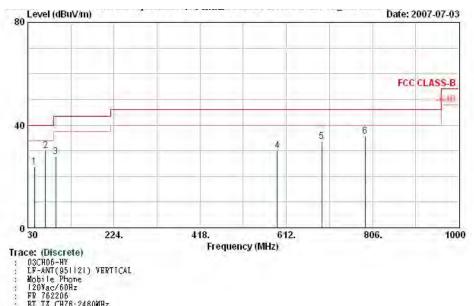
Trace: (Discrete)
: 03CH06-HY
: SHF-EHF HORN HORIZONTAL
: Mobile Phone
! 20Vac/60Hz
: FR 762206
: BI TX_CH78;2480MHz
: DH5
: E2

| | | Fragues a. | Lovel | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | |
|---|---|------------|----------|--------|----------|--------|---------|-------|--------|--------|--------|---------|
| | | Frequency | Level | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Remark |
| | | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | |
| 1 | | 2328.00 | 49.67 | -24.33 | 74.00 | 51.15 | 30.23 | 3.69 | 35.40 | 100.00 | 0.00 | Peak |
| 2 | | 2328.00 | 38.00 | -16.00 | 54.00 | 39.48 | 30.23 | 3.69 | 35.40 | 100.00 | 6.00 | Average |
| 3 | Χ | 2480.00 | 93.42 | | | 94.78 | 30.29 | 3.86 | 35.51 | 100.00 | 0.00 | Peak |
| 4 | Χ | 2480.00 | 86.01 | | | 87.37 | 30.29 | 3.86 | 35.51 | 100.00 | 6.00 | Average |
| 5 | ! | 2483.50 | 51.06 | -2.94 | 54.00 | 52.42 | 30.29 | 3.86 | 35.51 | 100.00 | 6.00 | Average |
| 6 | | 2483.50 | 58.21 | -15.79 | 74.00 | 59.57 | 30.29 | 3.86 | 35.51 | 100.00 | 0.00 | Peak |
| 7 | | 8391.00 | 56.18 | -17.82 | 74.00 | 44.73 | 39.28 | 8.23 | 36.06 | 100.00 | 0.00 | Peak |
| 8 | | 8391.00 | 42.72 | -11.28 | 54.00 | 31.27 | 39.28 | 8.23 | 36.06 | 100.00 | 267.00 | Average |

Remark: "X" represents the Fundamental Signal

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Polarization: Vertical (30MHz-1GHz) The test that passed at minimum margin was marked by the boldface in the following table.



| | Trace: (Discrete) |
|-----------|---------------------------|
| Site | : 03CH06-HY |
| Condition | : LF-ANT(951121) VERTICAL |
| EUT | : Mobile Phone |
| Power | : 120Vac/60Hz |
| Model | FR 762206 |
| Memo | ; BT TX_CH78;2480MHz |
| Data Rate | DH5 |
| Plane | E2 |

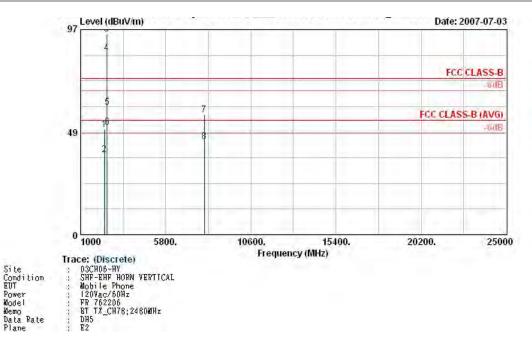
| | Fraguenay | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | |
|---|--------------------|-------------|--------|----------|--------|---------|-------|--------|--------|--------|--------|
| | Frequency (MHz) | (dBuV/m) | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Remark |
| | (IVITIZ) | (ubu v/III) | (dB) | (dBuV/m) | (dBuV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | |
| 1 | 44.58 | 23.80 | -16.20 | 40.00 | 43.14 | 11.02 | 0.76 | 31.12 | - | - | Peak |
| 2 | 69.69 | 30.02 | -9.98 | 40.00 | 53.38 | 6.89 | 0.92 | 31.17 | 100.00 | 143.00 | Peak |
| 3 | 92.64 | 27.68 | -15.82 | 43.50 | 48.12 | 9.62 | 1.05 | 31.11 | - | - | Peak |
| 4 | 591.90 | 29.97 | -16.03 | 46.00 | 39.33 | 18.38 | 2.93 | 30.67 | - | - | Peak |
| 5 | 691.30 | 33.70 | -12.30 | 46.00 | 42.23 | 18.85 | 3.22 | 30.60 | - | - | Peak |
| 6 | 789.30 | 35.79 | -10.21 | 46.00 | 43.18 | 19.72 | 3.39 | 30.50 | - | - | Peak |

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Polarization : Vertical (1GHz-25GHz)

The test that passed at minimum margin was marked by the boldface in the following table.



| | | | Lovel | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | |
|---|---|-----------|----------|--------|----------|--------|---------|-------|--------|--------|--------|---------|
| | | Frequency | Level | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Remark |
| | | (MHz) | (dBuV/m) | (dB) | (dBuV/m) | (dBuV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | |
| 1 | | 2344.00 | 49.82 | -24.18 | 74.00 | 51.29 | 30.24 | 3.71 | 35.42 | 100.00 | 0.00 | Peak |
| 2 | | 2344.00 | 37.92 | -16.08 | 54.00 | 39.39 | 30.24 | 3.71 | 35.42 | 100.00 | 280.00 | Average |
| 3 | Χ | 2480.00 | 94.76 | | | 96.12 | 30.29 | 3.86 | 35.51 | 100.00 | 0.00 | Peak |
| 4 | Χ | 2480.00 | 85.76 | | | 87.12 | 30.29 | 3.86 | 35.51 | 100.00 | 280.00 | Average |
| 5 | | 2483.50 | 60.06 | -13.94 | 74.00 | 61.42 | 30.29 | 3.86 | 35.51 | 100.00 | 0.00 | Peak |
| 6 | ! | 2483.50 | 50.68 | -3.32 | 54.00 | 52.04 | 30.29 | 3.86 | 35.51 | 100.00 | 280.00 | Average |
| 7 | | 7971.00 | 56.49 | -17.51 | 74.00 | 45.02 | 39.55 | 7.78 | 35.86 | 100.00 | 0.00 | Peak |
| 8 | | 7971.00 | 44.11 | -9.89 | 54.00 | 32.64 | 39.55 | 7.78 | 35.86 | 100.00 | 267.00 | Average |

Remark: "X" represents the Fundamental Signal

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5.10 Antenna Requirements

5.10.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no other antenna except assembled by the responsible party shall be used with the device.

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And according to FCC 47 CFR Section 15.247 (b), if directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

5.10.2 Antenna Connected Construction

The antenna used in this product is a PIFA antenna without connecter and it is considered to meet antenna requirement of FCC.

5.10.3 Antenna Gain

The antenna gain of EUT is less than 6dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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6. List of Measuring Equipments Used

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Due Date | Remark |
|------------------------------|-----------------------|-------------------|---------------|-----------------|---------------------|---------------|--------------------------|
| EMC Receiver | R&S | ESCS 30 | 100132 | 9kHz – 2.75GHz | Aug. 30, 2006 | Aug. 29, 2007 | Conduction (CO01-HY) |
| LISN | MessTec | NNB-2/16Z | 2001/004 | 9kHz – 30MHz | Mar. 30, 2007 | Mar. 29, 2008 | Conduction (CO01-HY) |
| LISN (Support Unit) | MessTec | NNB-2/16Z | 2001/009 | 9kHz – 30MHz | Mar. 30, 2007 | Mar. 29, 2008 | Conduction (CO01-HY) |
| EMI Filter | LINDGREN | LRE-2060 | 1004 | < 450Hz | N/A | N/A | Conduction (CO01-HY) |
| EMI Filter | LINDGREN | N6006 | 201052 | 0 – 60Hz | N/A | N/A | Conduction (CO01-HY) |
| RF Cable-CON | Suhner Switzerland | RG223/U | CB029 | 9kHz – 30MHz | Dec. 04, 2006 | Dec. 03, 2007 | Conduction (CO01-HY) |
| Isolation Transformer | Erika Fiedler OHG | D-65396 Walluf | 58 | 45MHz-2.15GHz | N/A | N/A | Conduction (CO01-HY) |
| Spectrum analyzer | Agilent | E4408B | MY44211030 | 9KHz-26.5GHz | Oct. 05, 2006 | Oct. 04, 2007 | Radiation (03CH06-HY) |
| EMI Test Receiver | R&S | ESCS30 | 100356 | 9KHz-2.75GHz | Jul. 26, 200 | Jul. 25, 2008 | Radiation (03CH06-HY) |
| Bilog Antenna | SCHAFFNER | CBL6112B | 2885 | 30MHz -2GHz | Nov. 20, 2006 | Nov. 19, 2007 | Radiation (03CH06-HY) |
| Double Ridge Horn Antenna | Com-Power | AH118 | 071025 | 1G~18G | Jun. 04, 2007 | Jun. 03, 2008 | Radiation (03CH06-HY) |
| SHF-EHF Horn | SCHWARZBECK | BBHA 9170 | 9170-249 | 14G - 40G | Nov. 20, 2006 | Nov. 19, 2008 | Radiation (03CH06-HY) |
| Pre Amplifier | Agilent | 8449B | 3008A01917 | 1G - 26.5G | Nov. 15, 2006 | Nov. 14, 2007 | Radiation (03CH06-HY) |
| Pre Amplifier | Mini Circuits | ZKL-2 | D092004-1 | 10~2500MHz | Nov. 15, 2006 | Nov. 14, 2007 | Radiation (03CH06-HY) |
| Base Station Simulator | R&S | CMU200 | 106656 | WCDMA | Nov. 20, 2006 | Nov. 19, 2007 | Radiation (03CH06-HY) |
| Controller | INN-CO | CO2000 | N/A | N/A | N/A | N/A | Radiation (03CH06-HY) |
| Turn Table | INN-CO | DS2000 | 420/650/00 | 0 ~ 360 degree | N/A | N/A | Radiation (03CH06-HY) |
| Antenna Mast | INN-CO | MM3000 | 114/8000604/L | 1 m - 4 m | N/A | N/A | Radiation (03CH06-HY) |

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7. Uncertainty EvaluationUncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

| Contribution | Uncerta | ainty of X_i | $u(x_i)$ |
|---|-------------|-----------------------------|----------|
| | dB | Probability Distribution | $u(x_i)$ |
| Receiver reading | 0.10 | Normal(k=2) | 0.05 |
| Cable loss | 0.10 | Normal(k=2) | 0.05 |
| AMN insertion loss | 2.50 | Rectangular | 0.63 |
| Receiver Spec | 1.50 | Rectangular | 0.43 |
| Site imperfection | 1.39 | Rectangular | 0.80 |
| Mismatch | +0.34/-0.35 | U-shape | 0.24 |
| combined standard uncertainty Uc(y) | | 1.13 | |
| Measuring uncertainty for a level of confidence of 95% U=2Uc(y) | | 2.26 | |

Uncertainty of Radiated Emission Evaluation (30MHz ~ 1000MHz)

| Contribution | Uncerta | ainty of X_i | | |
|---|-------------|-----------------------------|----------|--|
| | dB | Probability Distribution | $u(x_i)$ | |
| Receiver reading | 0.15 | Normal(k=2) | 0.08 | |
| Antenna factor calibration | 1.12 | Normal(k=2) | 0.56 | |
| Cable loss calibration | 0.12 | Normal(k=2) | 0.06 | |
| Pre Amplifier Gain calibration | 0.13 | Normal(k=2) | 0.07 | |
| RCV/SPA specification | 2.5 | Rectangular | 0.72 | |
| Antenna Factor Interpolation for Frequency | 1 | Rectangular | 0.29 | |
| Site imperfection | 2.1 | Rectangular | 1.21 | |
| Mismatch | +0.39/-0.41 | U-shaped | 0.28 | |
| combined standard uncertainty Uc(y) | | 1.58 | | |
| Measuring uncertainty for a level of confidence of 95% U=2Uc(y) | | 3.16 | | |

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Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

| Checkanity of Hadiated Emission Medearer | 110116 (10112 | , | | | |
|--|---------------|---|----------|----|-------------|
| Contribution | Uncerta dB | inty of X _i Probability Distribution | $u(x_i)$ | Ci | $Ci*u(x_i)$ |
| Receiver reading | ±0.10 | Normal(k=1) | 0.10 | 1 | 0.10 |
| Antenna factor calibration | ±1.70 | Normal(k=2) | 0.85 | 1 | 0.85 |
| Cable loss calibration | ±0.50 | Normal(k=2) | 0.25 | 1 | 0.25 |
| Receiver Correction | ±2.00 | Rectangular | 1.15 | 1 | 1.15 |
| Antenna Factor Directional | ±1.50 | Rectangular | 0.87 | 1 | 0.87 |
| Site imperfection | ±2.80 | Triangular | 1.14 | 1 | 1.14 |
| Mismatch Receiver VSWR Γ 1= 0.197 Antenna VSWR Γ 2= 0.194 Uncertainty=20log(1- Γ 1* Γ 2* Γ 3) | +0.34/-0.35 | U-shaped | 0.244 | 1 | 0.244 |
| Combined standard uncertainty Uc(y) | | | 2.36 | | |
| Measuring uncertainty for a level of confidence of 95% U=2Ue(y) | | | 4.72 | | |

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APPENDIX A. Photographs of EUT



SPORTON International Inc.

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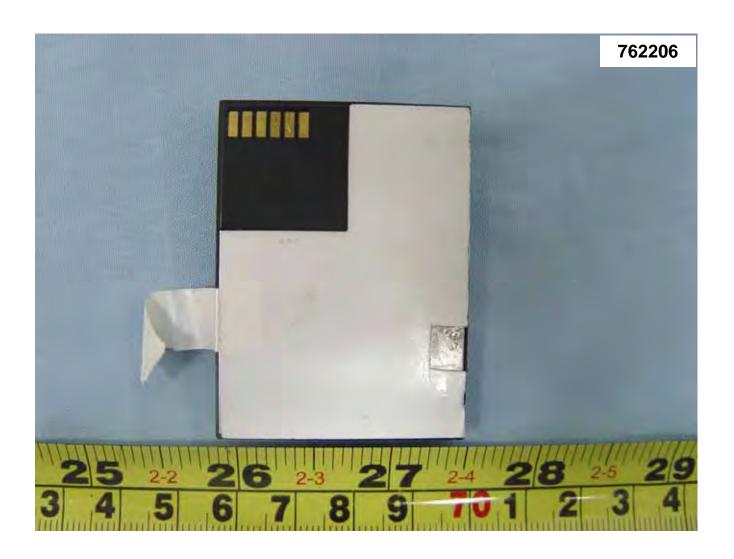
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UFOBC0164AAA390 Page Number : A6 OF A19
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TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UFOBC0164AAA390 Page Number : A14 OF A19
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APPENDIX B. Internal Photographs of EUT



SPORTON International Inc.

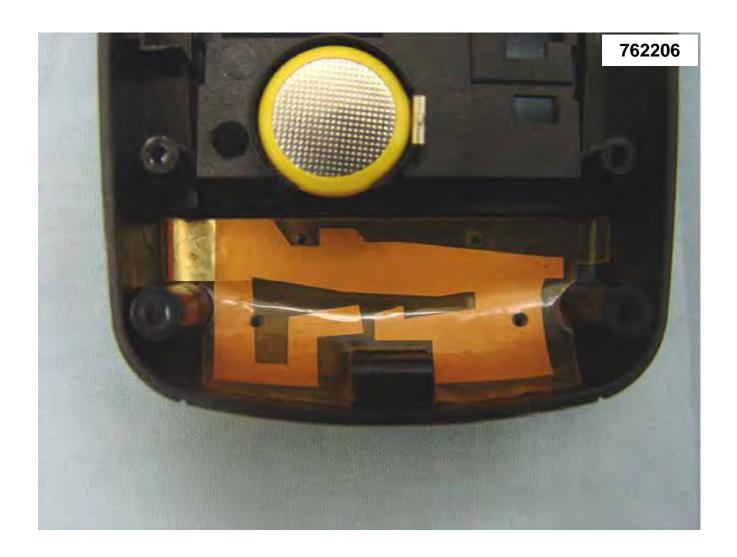
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UFOBC0164AAA390 Page Number : B1 OF B29
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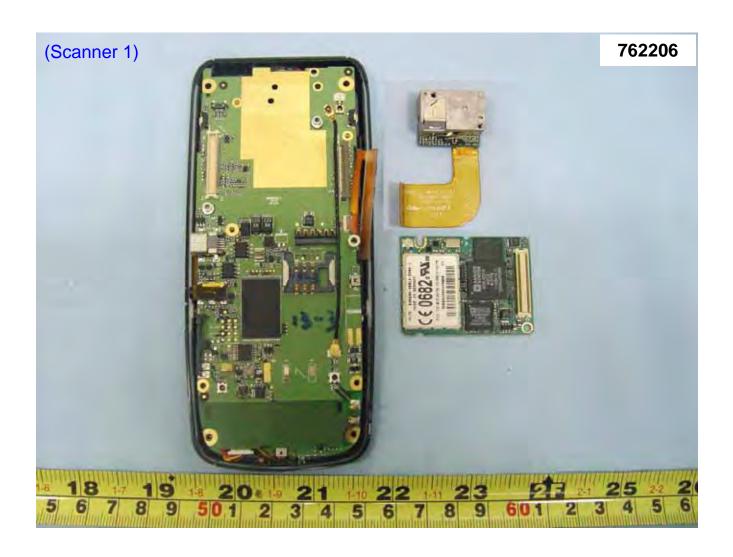
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: UFOBC0164AAA390 Page Number : B6 OF B29
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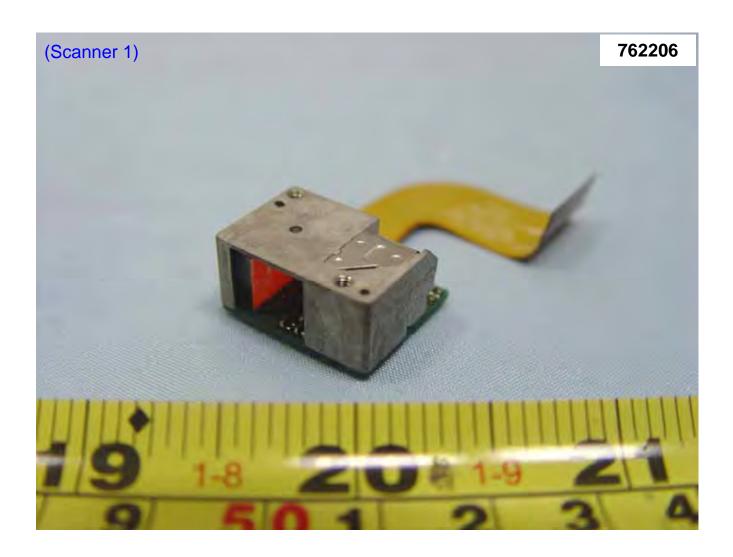
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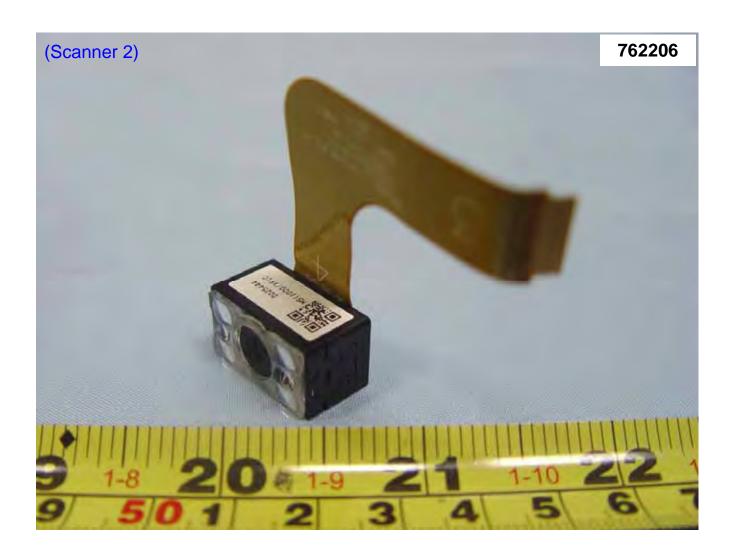
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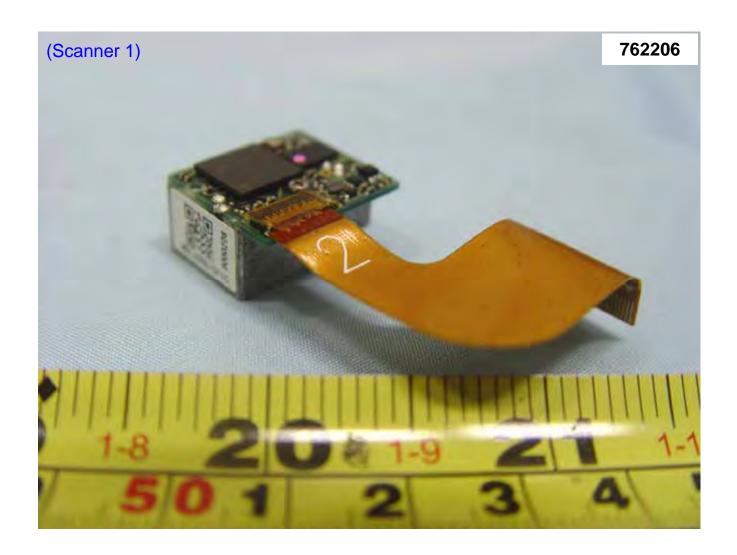
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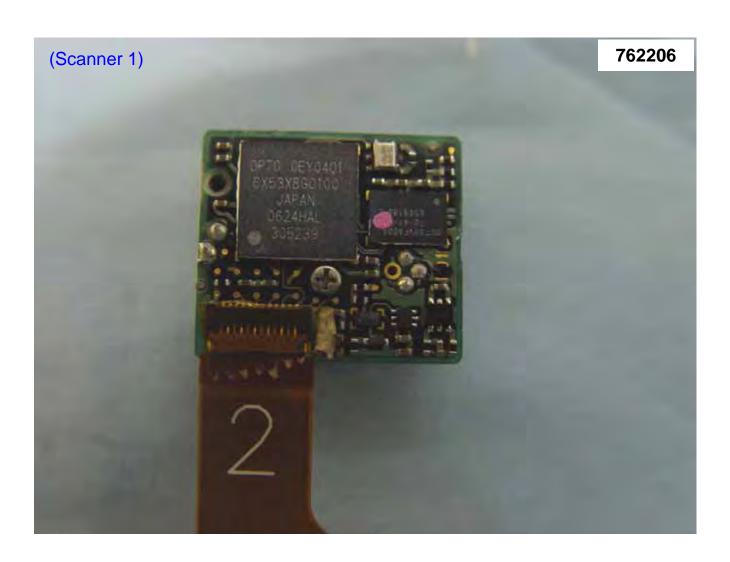
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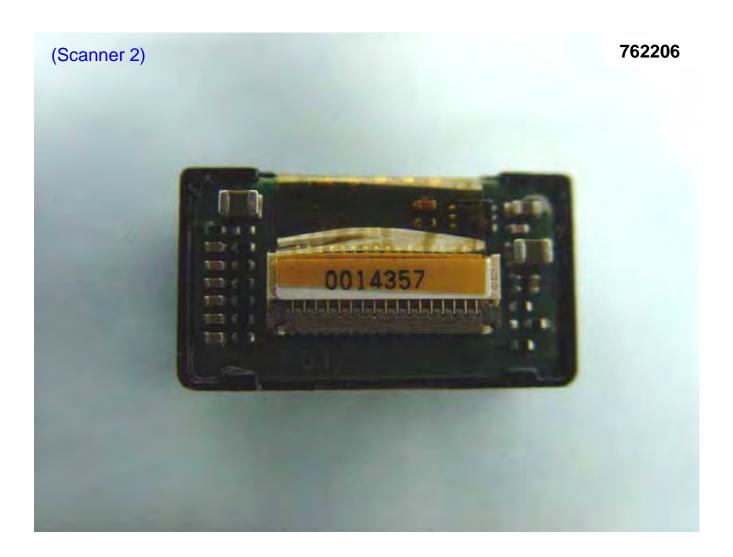
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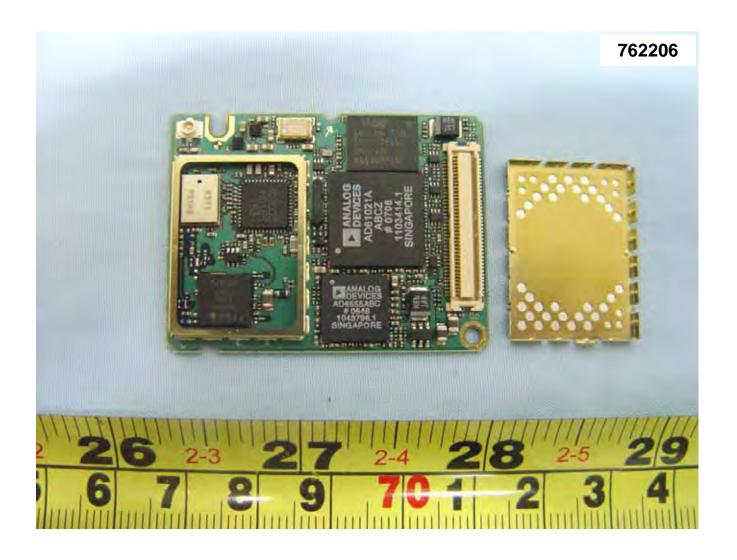
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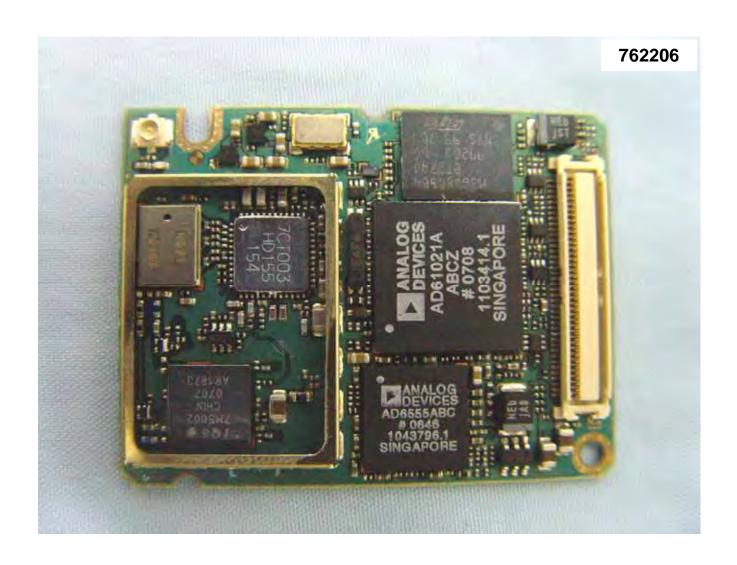
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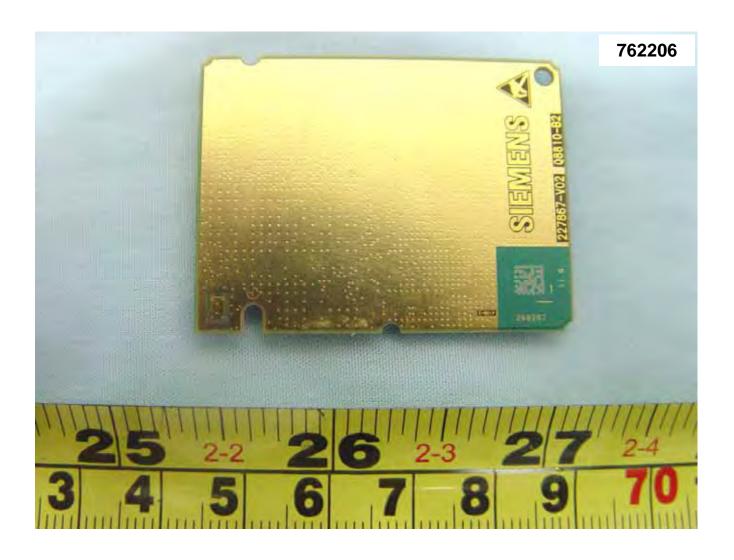
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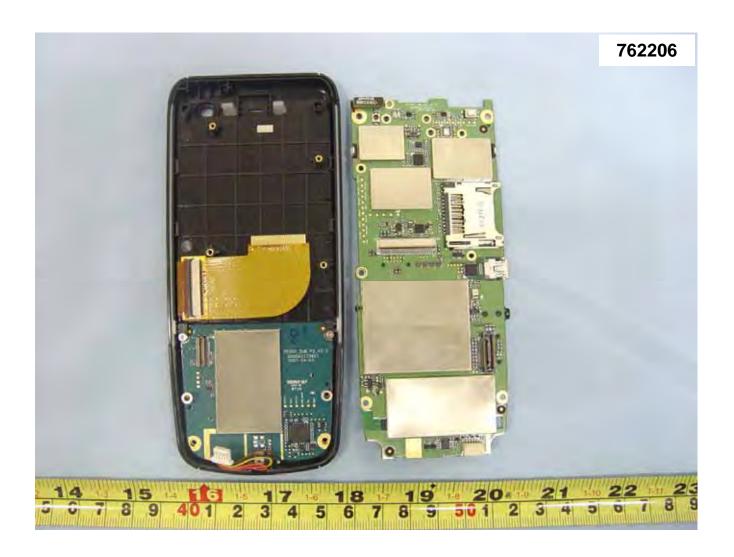
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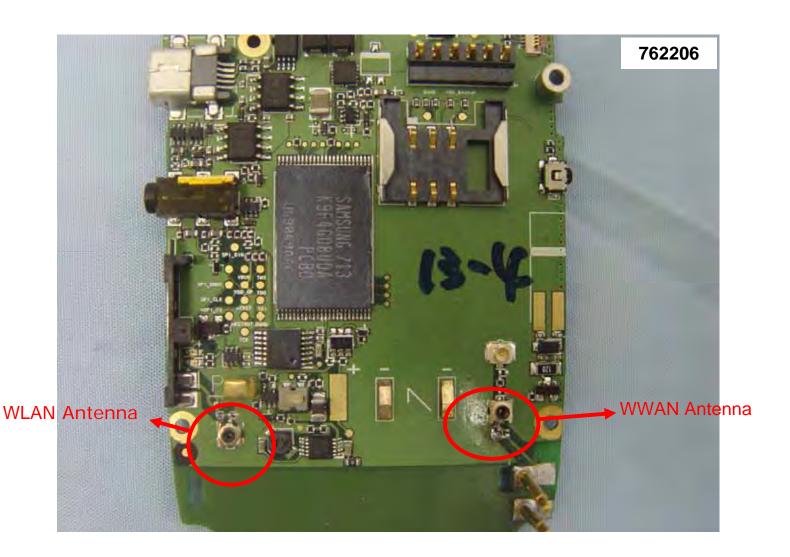
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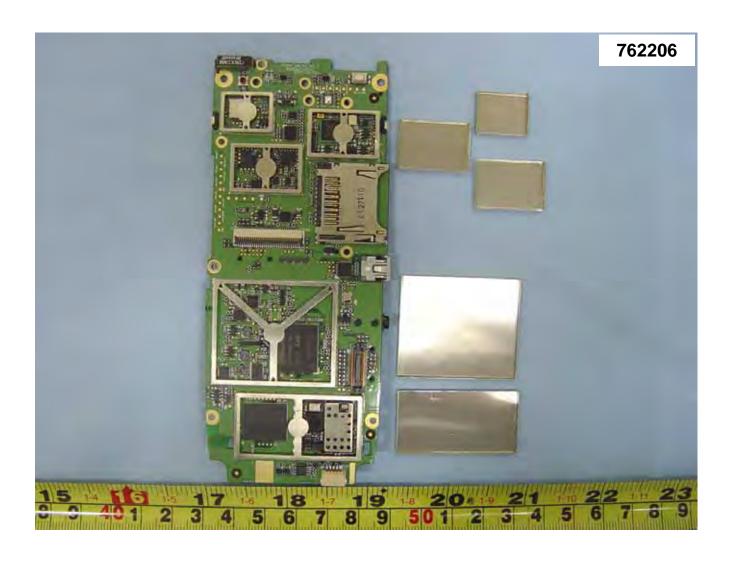
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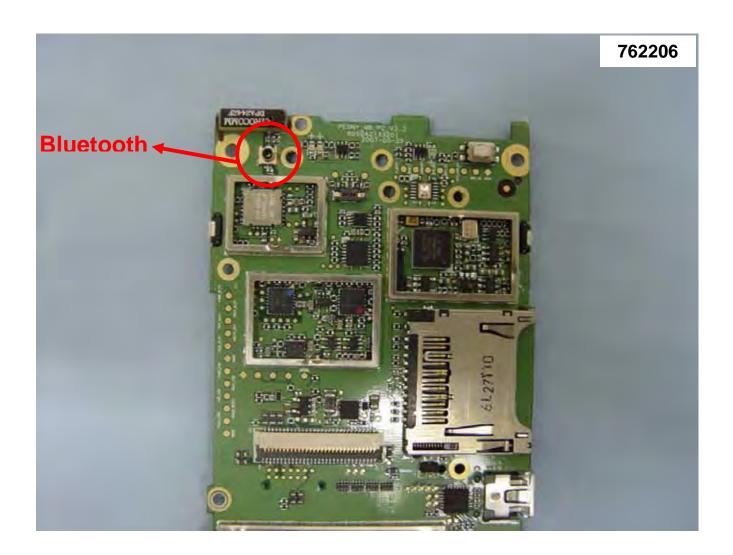
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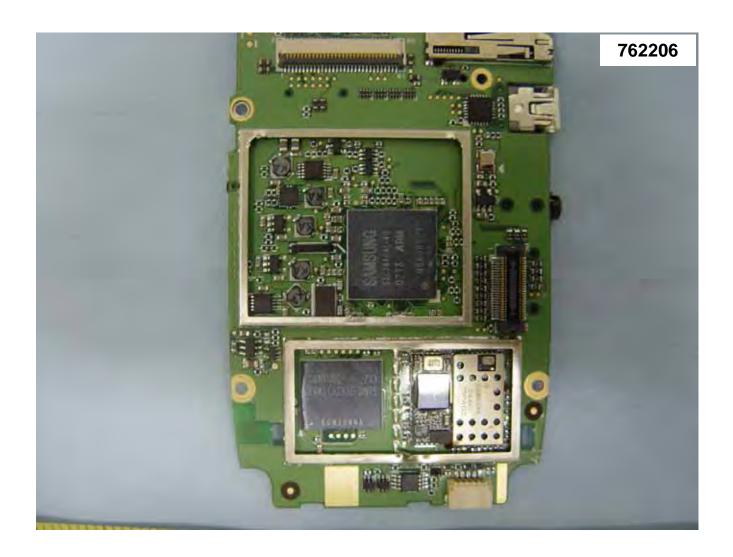
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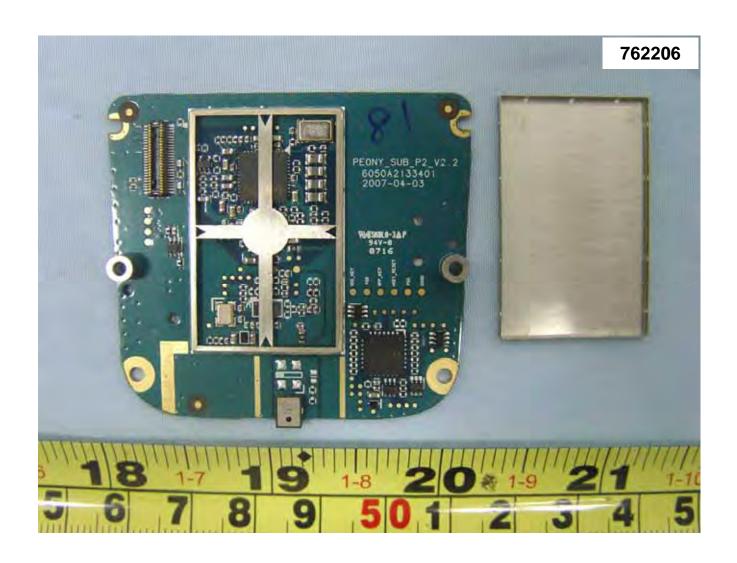
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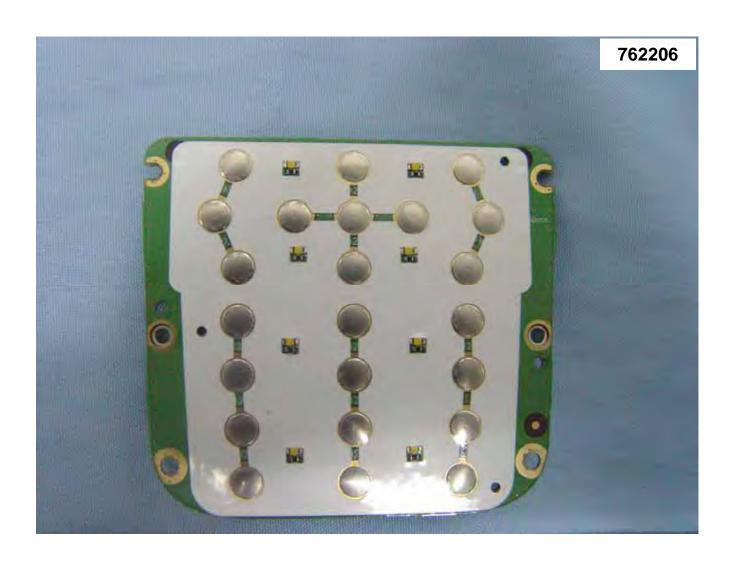
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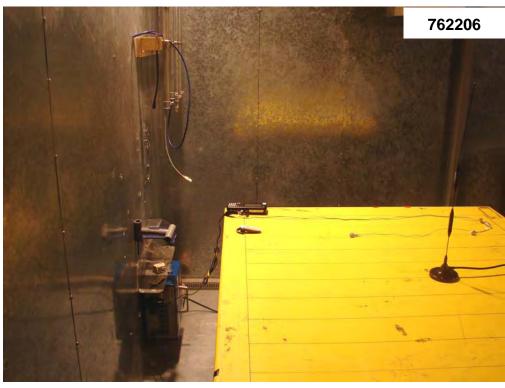
Appendix C. Set up Photograph

Conducted Emission

Mode 1~2



FRONT VIEW



REAR VIEW

SPORTON International Inc.

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SIDE VIEW

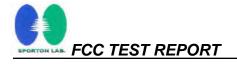
Mode 3~5

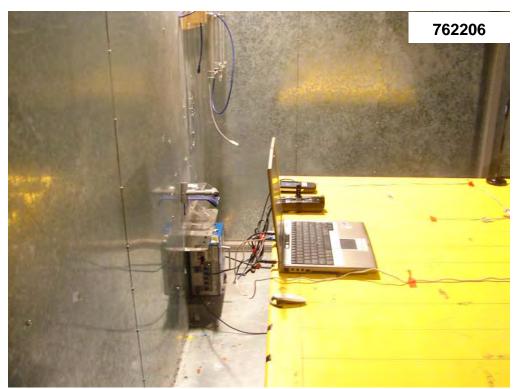


FRONT VIEW

SPORTON International Inc.

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REAR VIEW



SIDE VIEW

SPORTON International Inc.

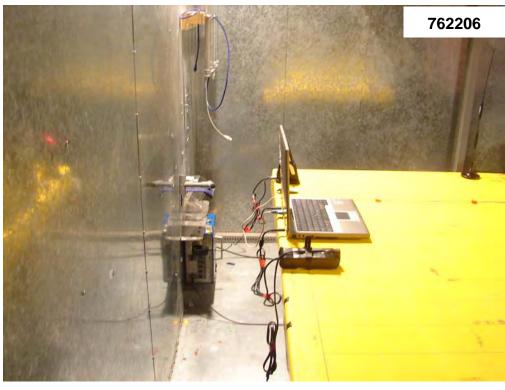
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Mode 4



FRONT VIEW



REAR VIEW

SPORTON International Inc.

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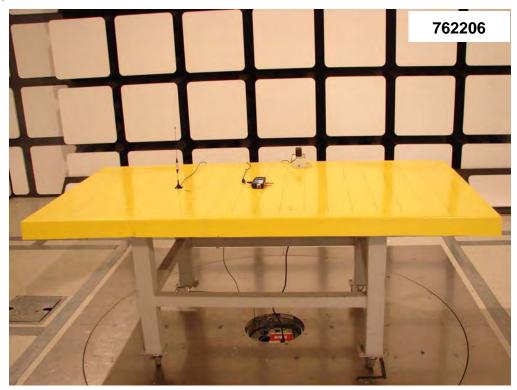
SIDE VIEW

SPORTON International Inc.

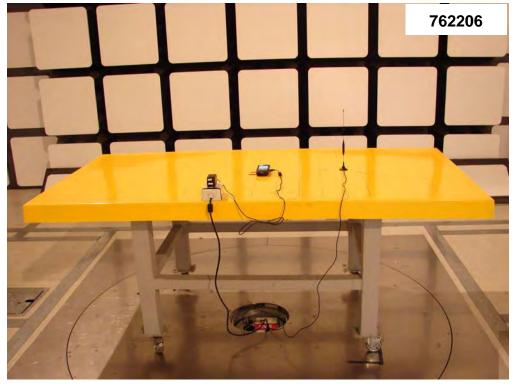
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Radiation Emission



FRONT VIEW



REAR VIEW

SPORTON International Inc.

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