



## **5.9 Radiated Emission Measurement**

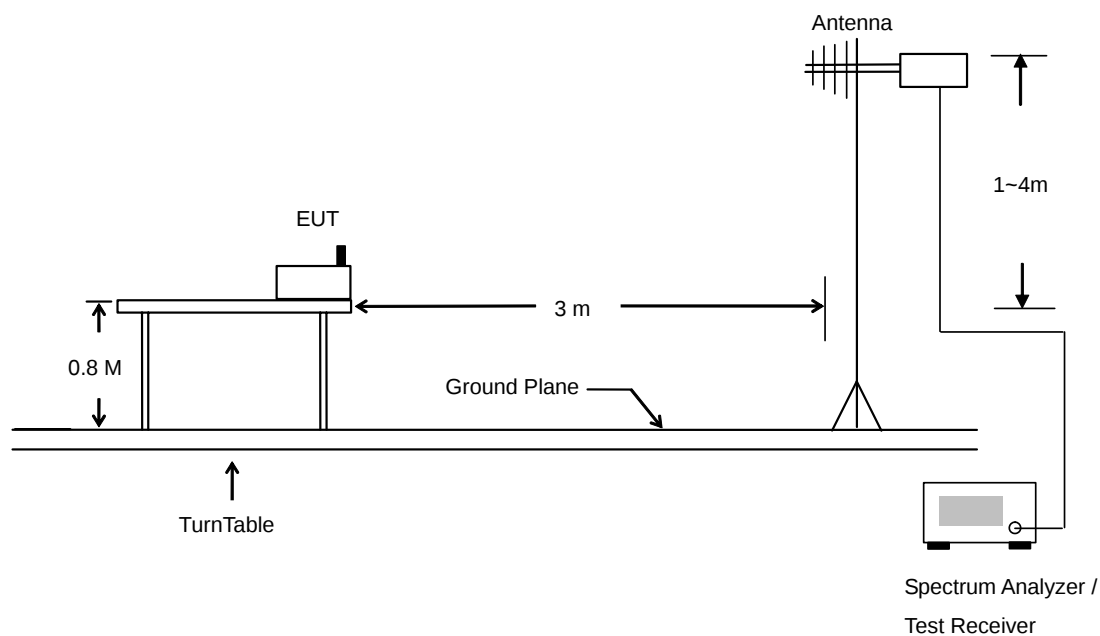
### **5.9.1 Measuring Instruments**

As described in chapter 6 of this Report.

### **5.9.2 Test Procedures**

1. The EUT was placed on a rotatable table top 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.

### 5.9.3 Typical Test Setup Layout of Radiated Emission

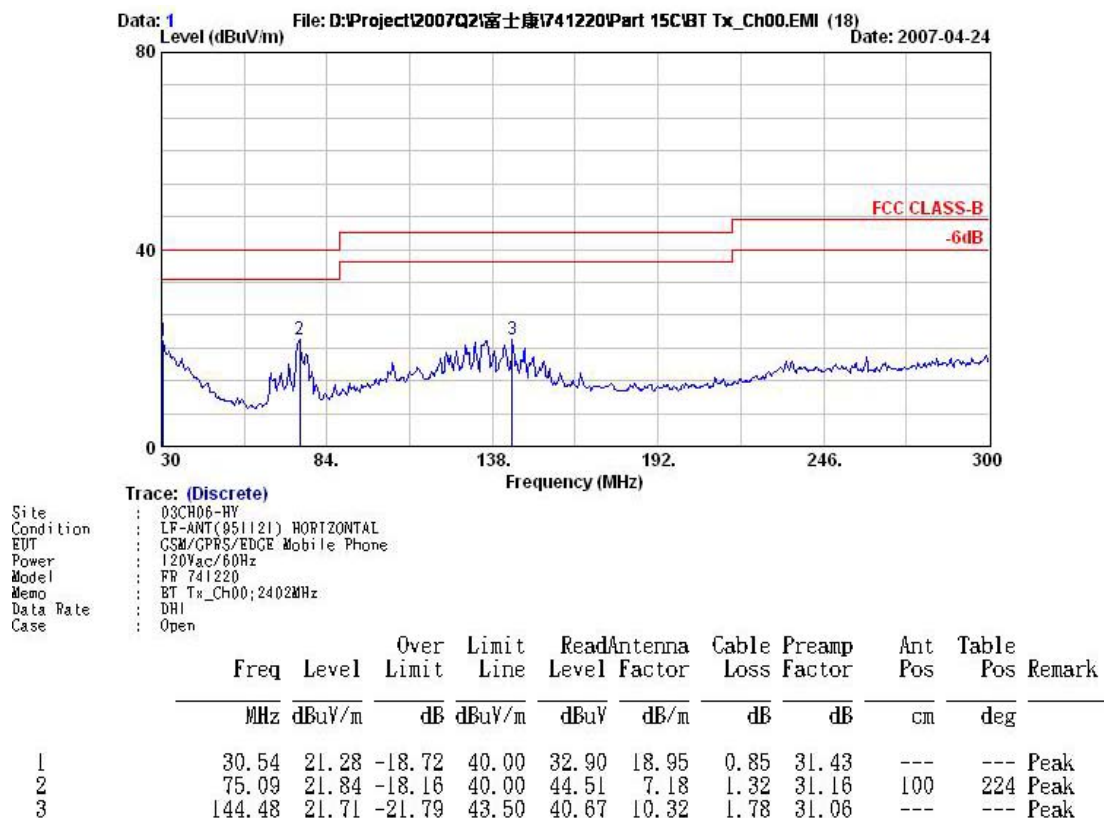




## 5.9.4 Test Data

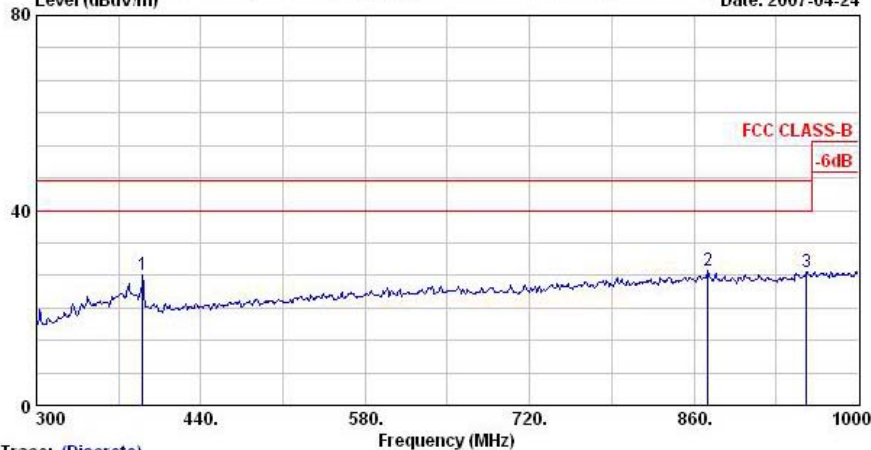
- Temperature : 26°C
- Relating Humidity : 54%
- Test Engineer : Andrew
- Test Mode : Mode 1
- Polarization : Horizontal

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





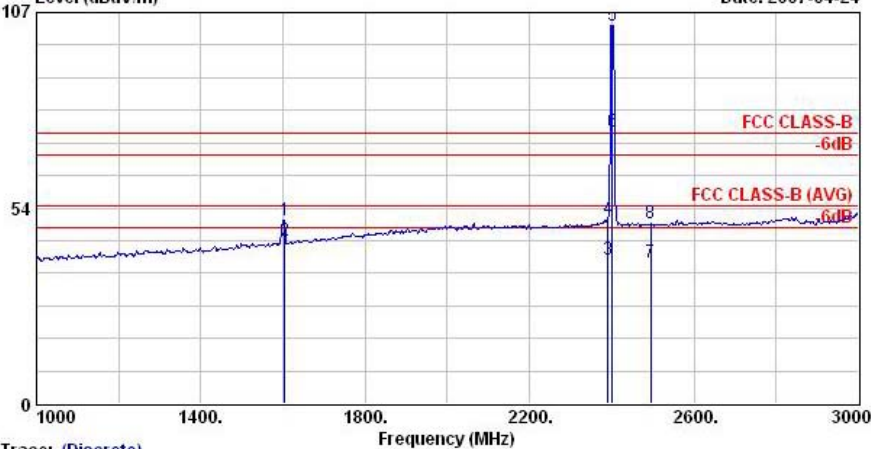
Data: 2 File: D:\Project\2007Q2\富士康741220\Part 15C\BT Tx\_Ch00.EMI (18) Date: 2007-04-24  
Level (dBuV/m)



Trace: (Discrete)  
Site : 03CH06-HY  
Condition : LF-ANT(951121) HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch00;2402MHz  
Data Rate : DH1  
Case : Open

|   | Freq   | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table | Remark |
|---|--------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
|   | MHz    | dBuV/m | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |        |
| 1 | 390.30 | 26.77  | -19.23 | 46.00  | 39.07 | 15.51   | 3.06  | 30.87  | --- | ---   | Peak   |
| 2 | 871.90 | 27.55  | -18.45 | 46.00  | 32.90 | 20.33   | 4.73  | 30.40  | --- | ---   | Peak   |
| 3 | 955.90 | 27.34  | -18.66 | 46.00  | 31.70 | 20.93   | 4.98  | 30.28  | --- | ---   | Peak   |

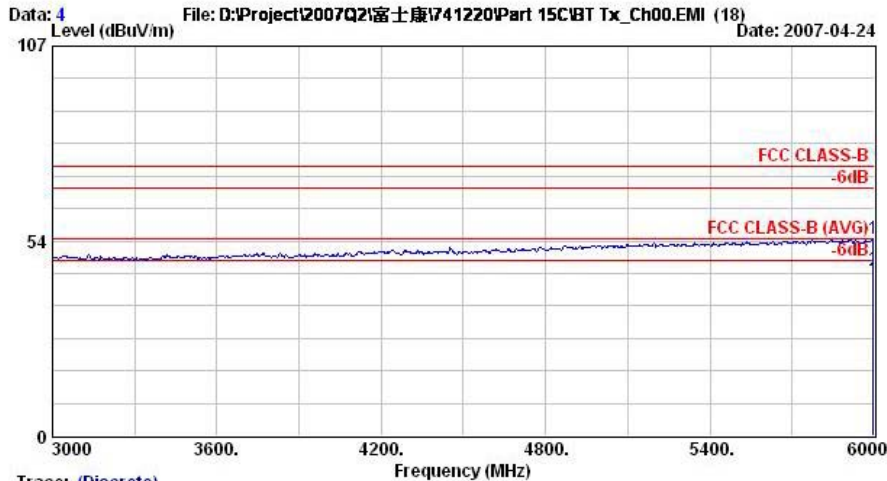
Data: 3 File: D:\Project\2007Q2\富士康741220\Part 15C\BT Tx\_Ch00.EMI (18) Date: 2007-04-24  
Level (dBuV/m)



Trace: (Discrete)  
Site : 03CH06-HY  
Condition : HF-ANT-060410 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch00;2402MHz  
Data Rate : DH1  
Case : Open

|     | Freq    | Level  | Over   | Limit  | Read   | Antenna | Cable | Preamp | Ant | Table | Remark  |
|-----|---------|--------|--------|--------|--------|---------|-------|--------|-----|-------|---------|
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV   | dB/m    | dB    | dB     | cm  | deg   |         |
| 1   | 1604.00 | 50.32  | -23.68 | 74.00  | 55.90  | 27.03   | 2.98  | 35.59  | 100 | 0     | Peak    |
| 2 @ | 1604.00 | 44.58  | -9.42  | 54.00  | 50.16  | 27.03   | 2.98  | 35.59  | 100 | 300   | Average |
| 3 @ | 2389.92 | 39.49  | -14.51 | 54.00  | 40.94  | 30.26   | 3.75  | 35.46  | 100 | 329   | Average |
| 4   | 2389.92 | 50.61  | -23.39 | 74.00  | 52.06  | 30.26   | 3.75  | 35.46  | 100 | 0     | Peak    |
| 5 @ | 2402.00 | 103.31 | --     | --     | 104.74 | 30.26   | 3.77  | 35.46  | 100 | 0     | Peak    |
| 6 @ | 2402.00 | 74.27  | --     | --     | 75.70  | 30.26   | 3.77  | 35.46  | 100 | 329   | Average |
| 7 @ | 2494.00 | 38.53  | -15.47 | 54.00  | 39.88  | 30.30   | 3.88  | 35.53  | 100 | 329   | Average |
| 8   | 2494.00 | 49.17  | -24.83 | 74.00  | 50.52  | 30.30   | 3.88  | 35.53  | 100 | 0     | Peak    |

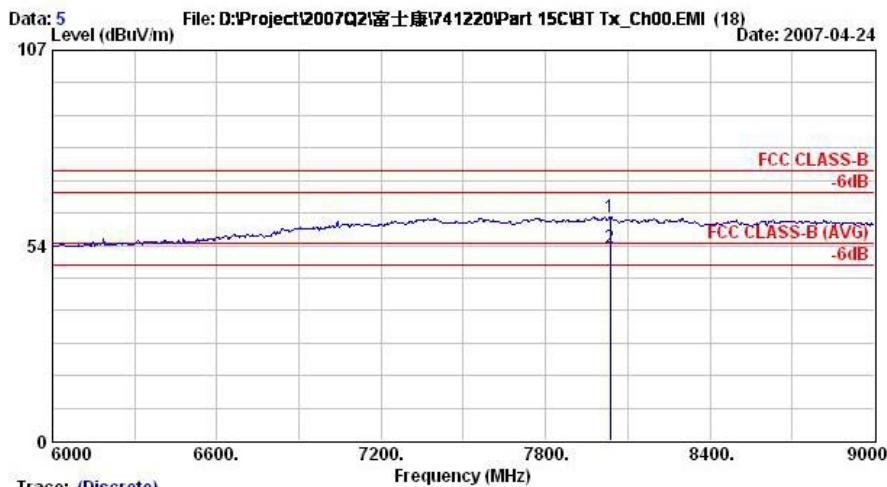
Remark: #5 and #6 Fundamental Signal



Trace: (Discrete)

Site : 03CH06-RY  
Condition : HP-ANT-060410 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch00;2402MHz  
Data Rate : DH1  
Case : Open

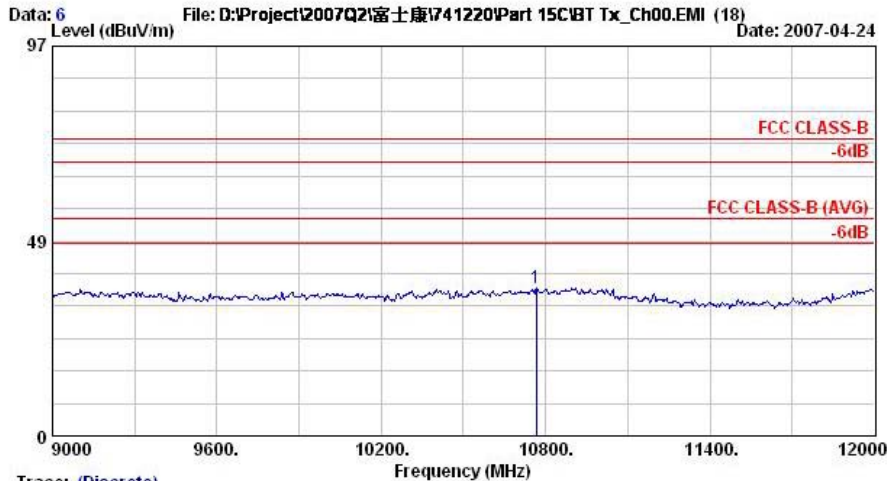
|     | Freq    | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table | Remark  |
|-----|---------|--------|--------|--------|-------|---------|-------|--------|-----|-------|---------|
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |         |
| 1   | 5997.00 | 53.98  | -20.02 | 74.00  | 48.62 | 34.10   | 6.94  | 35.68  | --- | ---   | Peak    |
| 2 @ | 5997.00 | 45.25  | -8.75  | 54.00  | 39.89 | 34.10   | 6.94  | 35.68  | 100 | 177   | Average |



Trace: (Discrete)

Site : 03CH06-RY  
Condition : HP-ANT-060410 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch00;2402MHz  
Data Rate : DH1  
Case : Open

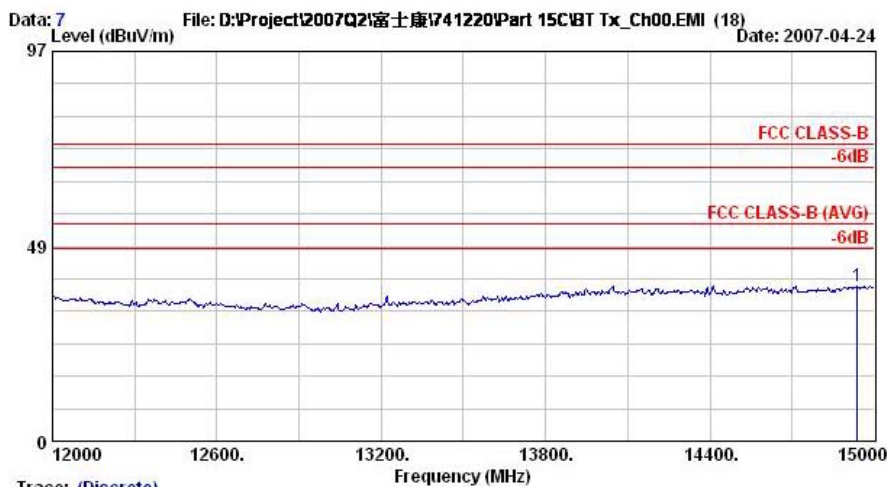
|     | Freq    | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table | Remark  |
|-----|---------|--------|--------|--------|-------|---------|-------|--------|-----|-------|---------|
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |         |
| 1 @ | 8037.00 | 61.37  | -12.63 | 74.00  | 49.84 | 39.57   | 7.83  | 35.87  | --- | ---   | Peak    |
| 2 @ | 8037.00 | 52.93  | -1.07  | 54.00  | 41.40 | 39.57   | 7.83  | 35.87  | 100 | 300   | Average |



Trace: (Discrete)

Site : 03CH06-HY  
Condition : HF-ANT(8-18)-060918 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch00;2402MHz  
Data Rate : DH1  
Case : Open

|   | Freq     | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark |      |
|---|----------|--------|---------------|---------------|-----------------------------|---------------|------------------|------------|--------------|--------|------|
|   | MHz      | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB               | dB         | cm           | deg    |      |
| 1 | 10767.00 | 36.89  | -37.11        | 74.00         | 71.86                       | -8.39         | 9.69             | 36.27      | ---          | ---    | Peak |



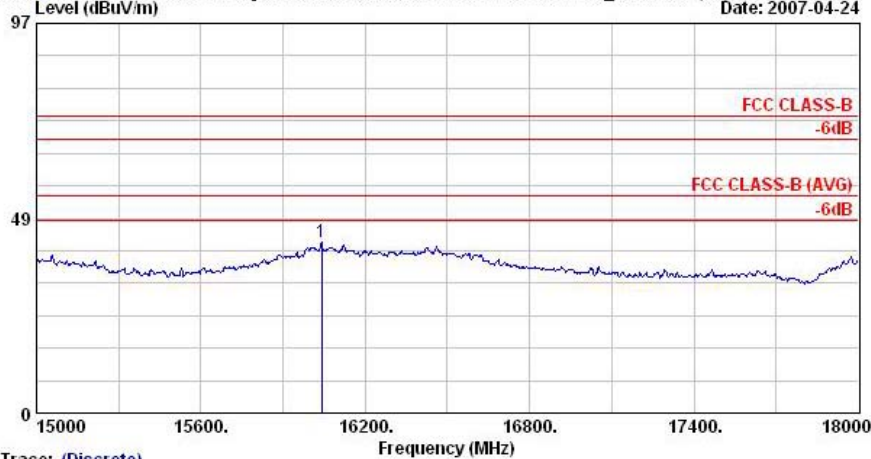
Trace: (Discrete)

Site : 03CH06-HY  
Condition : HF-ANT(8-18)-060918 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch00;2402MHz  
Data Rate : DH1  
Case : Open

|   | Freq     | Level  | Over Limit | Limit Line | ReadAntenna Level Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |      |
|---|----------|--------|------------|------------|--------------------------|------------|---------------|---------|-----------|--------|------|
|   | MHz      | dBuV/m | dB         | dBuV/m     | dBuV                     | dB/m       | dB            | dB      | cm        | deg    |      |
|   |          |        |            |            |                          |            |               |         |           |        |      |
| 1 | 14937.00 | 38.60  | -35.40     | 74.00      | 69.52                    | -6.25      | 11.31         | 35.98   | ---       | ---    | Peak |



Data: 8 File: D:\Project\2007Q2\富士康\741220\Part 15C\BT Tx\_Ch00.EMI (18) Date: 2007-04-24

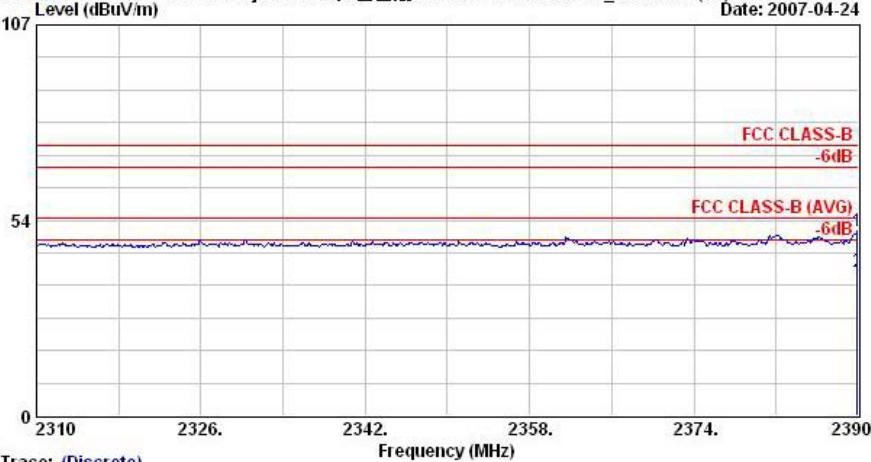


Trace: (Discrete)

Site : 03CH06-RV  
Condition : HF-ANT(8-18)-060918 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch00;2402MHz  
Data Rate : DH1  
Case : Open

|   | Freq     | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark |      |
|---|----------|--------|---------------|---------------|-----------------------------|---------------|------------------|------------|--------------|--------|------|
|   | MHz      | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB               | dB         | cm           | deg    |      |
| 1 | 16041.00 | 42.51  | -31.49        | 74.00         | 70.96                       | -4.40         | 11.78            | 35.83      | ---          | ---    | Peak |

Data: 17 File: D:\Project\2007Q2\富士康\741220\Part 15C\BT Tx\_Ch00.EMI (18) Date: 2007-04-24



Trace: (Discrete)

Site : 03CH06-RV  
Condition : HF-ANT-060410 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch00;2402MHz  
Data Rate : DH1  
Case : Open

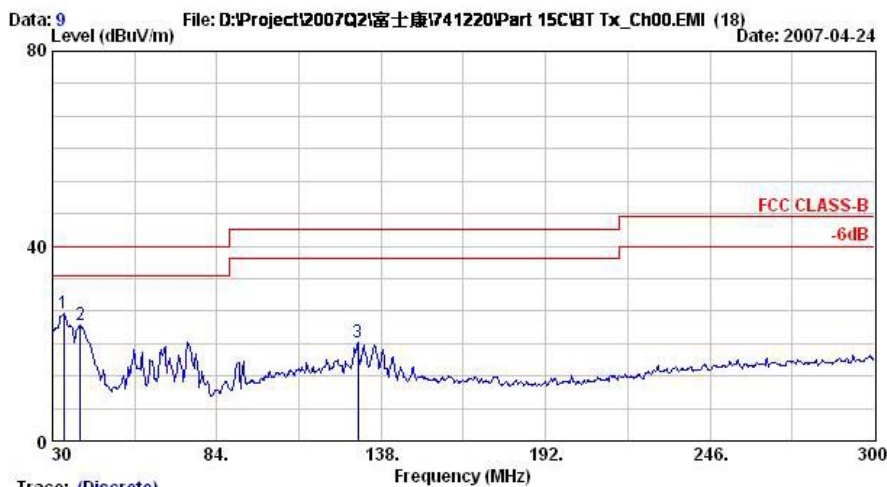
| Open |         |        |            |            |                   |                |            |               |         |           |         |
|------|---------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|-----------|---------|
|      | Freq    | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark  |
|      | MHz     | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            | cm      | deg       |         |
| 1    | 2389.92 | 50.61  | -23.39     | 74.00      | 52.06             | 30.26          | 3.75       | 35.46         | 100     | 0         | Peak    |
| 2 @  | 2389.92 | 39.49  | -14.51     | 54.00      | 40.94             | 30.26          | 3.75       | 35.46         | 100     | 329       | Average |

Remark: There's no more obvious spurious emission except the listings above.



- Test Mode : Mode 1
- Polarization : Vertical

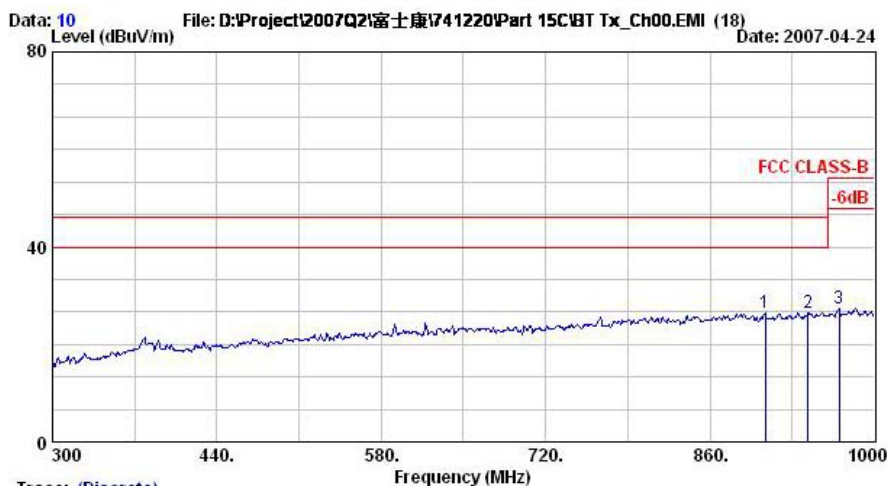
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 03CH06-RV  
Condition : LP-ANT(951121) VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch00:2402MHz  
Data Rate : DH1  
Case : Open

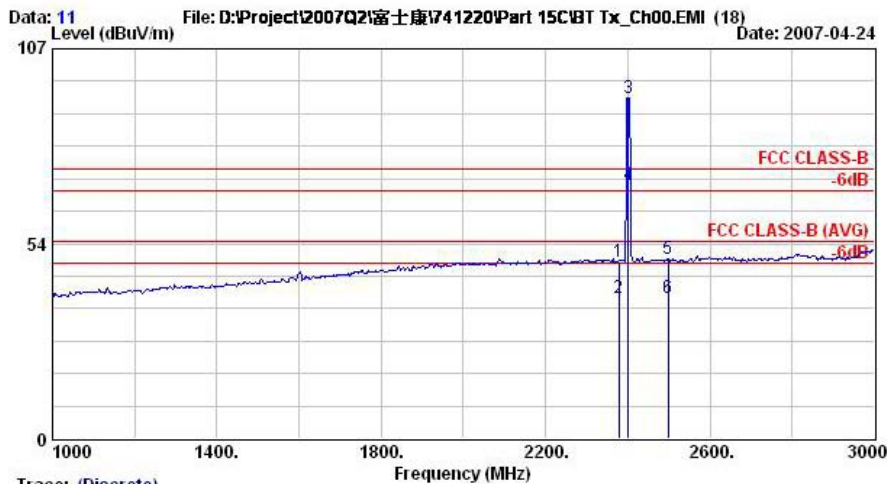
|   | Freq   | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |          |
|---|--------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|   | MHz    | dBuV/m | dB     | dBuV/m | Level       | Loss  | Factor | Pos   | Pos   | Remark   |
|   |        |        |        |        | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 | 33.78  | 26.02  | -13.98 | 40.00  | 39.64       | 16.84 | 0.87   | 31.32 | 100   | 301 Peak |
| 2 | 39.18  | 23.67  | -16.33 | 40.00  | 39.93       | 14.03 | 0.91   | 31.21 | ---   | ---      |
| 3 | 130.44 | 20.16  | -23.34 | 43.50  | 37.90       | 11.70 | 1.65   | 31.09 | ---   | ---      |



Trace: (Discrete)

Site : 03CH06-RV  
Condition : LP-ANT(951121) VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch00:2402MHz  
Data Rate : DH1  
Case : Open

|   | Freq   | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |        |
|---|--------|--------|--------|--------|-------------|-------|--------|-------|-------|--------|
|   | MHz    | dBuV/m | dB     | dBuV/m | Level       | Loss  | Factor | Pos   | Pos   | Remark |
|   |        |        |        |        | dBuV        | dB/m  | dB     | dB    | cm    | deg    |
| 1 | 906.90 | 26.47  | -19.53 | 46.00  | 31.41       | 20.58 | 4.84   | 30.36 | ---   | ---    |
| 2 | 943.30 | 26.50  | -19.50 | 46.00  | 31.00       | 20.84 | 4.94   | 30.29 | ---   | ---    |
| 3 | 969.90 | 27.25  | -26.75 | 54.00  | 31.47       | 21.03 | 5.03   | 30.28 | ---   | ---    |

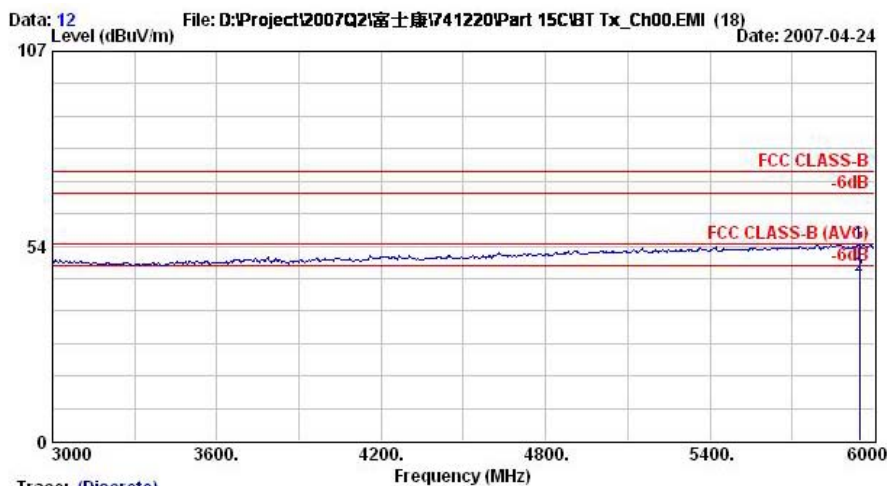


Trace: (Discrete)

- Site : 03CH06-RV
- Condition : HF-ANT-060410 VERTICAL
- EUT : GSM/GPRS/EDGE Mobile Phone
- Power : 120Vac/60Hz
- Model : FR 741220
- Memo : BT Tx\_Ch00;2402MHz
- Data Rate : DH1
- Case : Open

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |            |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|------------|
|     | MHz     | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | Pos   | Pos   | Remark     |
|     |         |        | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg        |
| 1   | 2378.96 | 48.60  | -25.40 | 74.00  | 50.05       | 30.24 | 3.73   | 35.42 | 100   | 0 Peak     |
| 2   | 2378.96 | 38.40  | -15.60 | 54.00  | 39.84       | 30.25 | 3.75   | 35.44 | 106   | 12 Average |
| 3 @ | 2402.00 | 93.41  |        |        | 94.83       | 30.27 | 3.77   | 35.46 | 100   | 0 Peak     |
| 4 @ | 2402.00 | 69.52  |        |        | 70.95       | 30.26 | 3.77   | 35.46 | 106   | 12 Average |
| 5   | 2498.00 | 49.39  | -24.61 | 74.00  | 50.74       | 30.30 | 3.88   | 35.53 | 100   | 0 Peak     |
| 6   | 2498.00 | 38.39  | -15.61 | 54.00  | 39.74       | 30.30 | 3.88   | 35.53 | 106   | 12 Average |

Remark: #3 and #4 Fundamental Signal



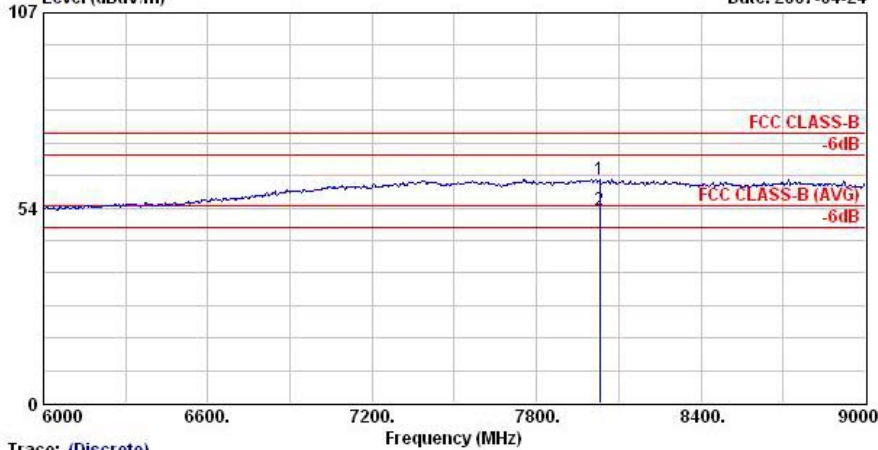
Trace: (Discrete)

- Site : 03CH06-RV
- Condition : HF-ANT-060410 VERTICAL
- EUT : GSM/GPRS/EDGE Mobile Phone
- Power : 120Vac/60Hz
- Model : FR 741220
- Memo : BT Tx\_Ch00;2402MHz
- Data Rate : DH1
- Case : Open

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |             |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|-------------|
|     | MHz     | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | Pos   | Pos   | Remark      |
|     |         |        | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg         |
| 1   | 5946.00 | 53.92  | -20.08 | 74.00  | 48.66       | 34.05 | 6.93   | 35.71 | ---   | ---         |
| 2 @ | 5946.00 | 45.47  | -8.53  | 54.00  | 40.20       | 34.05 | 6.93   | 35.71 | 100   | 220 Average |



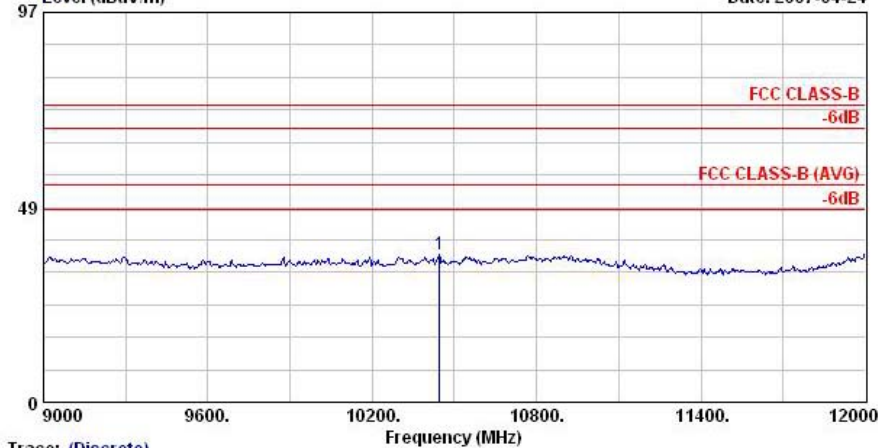
Data: 13 File: D:\Project\2007Q2\富士康741220\Part 15C\BT Tx\_Ch00.EMI (18) Date: 2007-04-24  
Level (dBuV/m)



Trace: (Discrete)  
Site : 03CH06-RV  
Condition : HF-ANT-060410 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch00;2402MHz  
Data Rate : DHI  
Case : Open

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |        |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|--------|
|     | MHz     | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | Pos   | Pos   | Remark |
|     |         |        | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg    |
| 1 @ | 8031.00 | 61.30  | -12.70 | 74.00  | 49.77       | 39.57 | 7.83   | 35.87 | ---   | ---    |
| 2 @ | 8031.00 | 52.83  | -1.17  | 54.00  | 41.30       | 39.57 | 7.83   | 35.87 | 100   | 345    |

Data: 14 File: D:\Project\2007Q2\富士康741220\Part 15C\BT Tx\_Ch00.EMI (18) Date: 2007-04-24  
Level (dBuV/m)

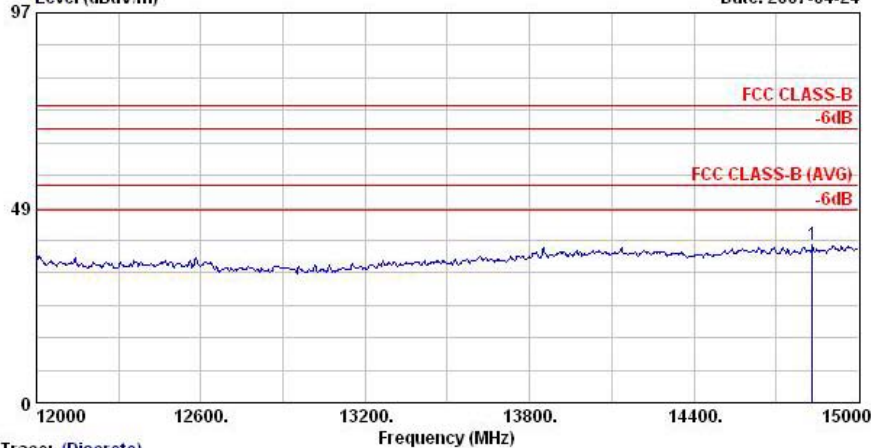


Trace: (Discrete)  
Site : 03CH06-RV  
Condition : HF-ANT(8-18)-060918 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch00;2402MHz  
Data Rate : DHI  
Case : Open

|   | Freq     | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |        |
|---|----------|--------|--------|--------|-------------|-------|--------|-------|-------|--------|
|   | MHz      | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | Pos   | Pos   | Remark |
|   |          |        | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg    |
| 1 | 10446.00 | 36.77  | -37.23 | 74.00  | 72.51       | -8.58 | 9.46   | 36.62 | ---   | ---    |



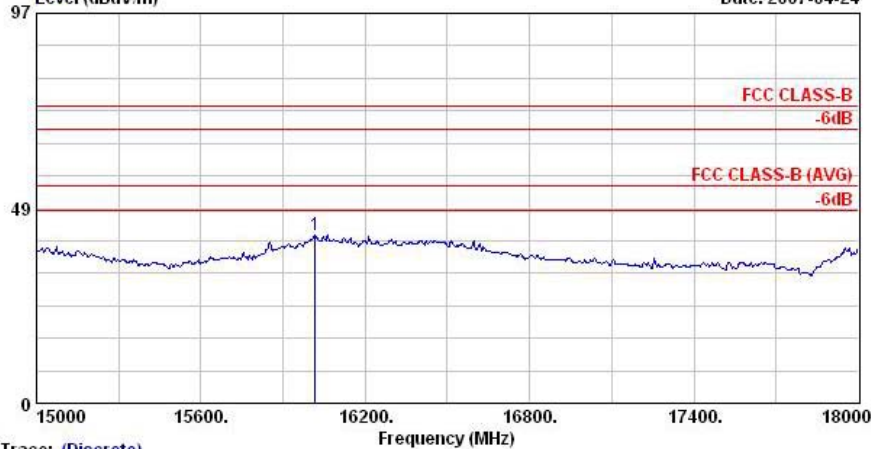
Data: 15 File: D:\Project\2007Q2\富士康741220\Part 15C\BT Tx\_Ch00.EMI (18) Date: 2007-04-24  
Level (dBuV/m)



Trace: (Discrete)  
Site : 03CH06-RV  
Condition : HF-ANT(8-18)-060918 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch00;2402MHz  
Data Rate : DH1  
Case : Open

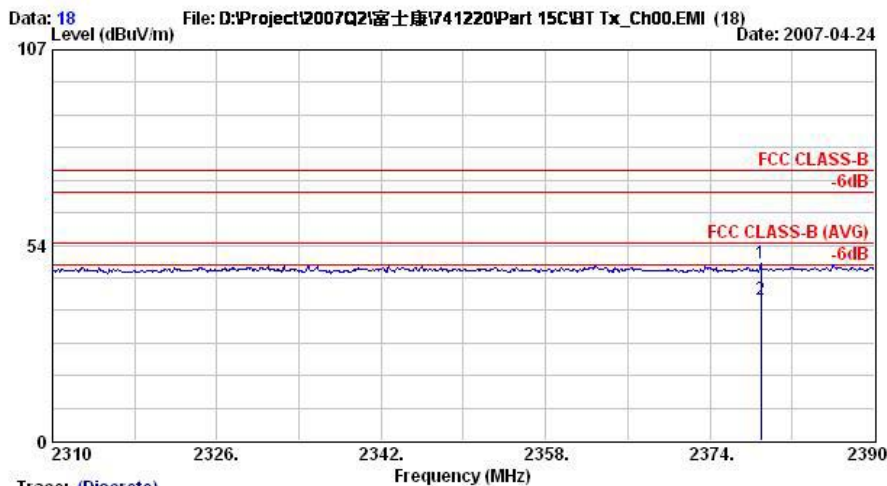
|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |        |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
|   | MHz      | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   | Remark |
|   |          |        | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |        |
| 1 | 14832.00 | 39.21  | -34.79 | 74.00  | 69.98 | -6.34   | 11.42 | 35.84  | --- | ---   | Peak   |

Data: 16 File: D:\Project\2007Q2\富士康741220\Part 15C\BT Tx\_Ch00.EMI (18) Date: 2007-04-24  
Level (dBuV/m)



Trace: (Discrete)  
Site : 03CH06-RV  
Condition : HF-ANT(8-18)-060918 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch00;2402MHz  
Data Rate : DH1  
Case : Open

|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |        |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
|   | MHz      | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   | Remark |
|   |          |        | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |        |
| 1 | 16017.00 | 41.86  | -32.14 | 74.00  | 70.36 | -4.15   | 11.77 | 36.13  | --- | ---   | Peak   |



Trace: (Discrete)

Site : 03CH06-RV

Condition : HF-ANT-060410 VERTICAL

EUT : GSM/GPRS/EDGE Mobile Phone

Power : 120Vac/60Hz

Model : FR 741220

Memo : BT Tx\_Ch00;2402MHz

Data Rate : DHI

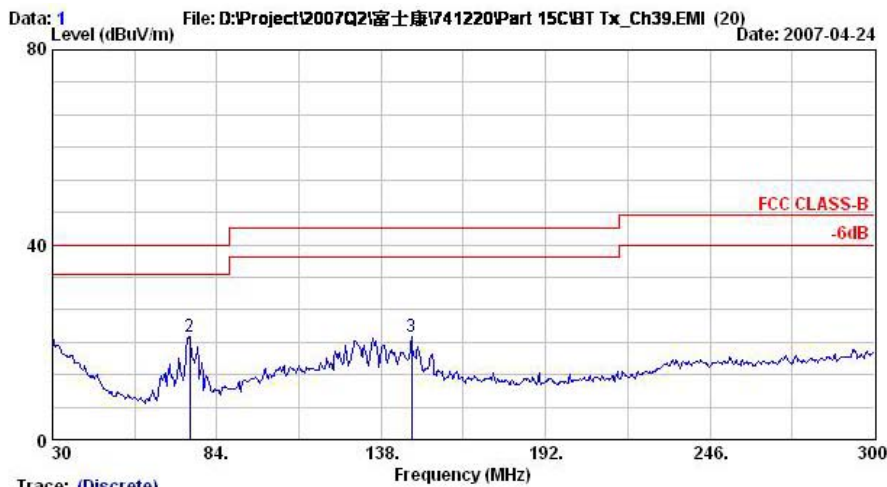
Case : Open

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table |            |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|------------|
|     | MHz     | dBuV/m | Limit  | Line   | Level       | Loss  | Factor | Pos   | Pos   | Remark     |
|     |         |        | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg        |
| 1   | 2378.96 | 48.60  | -25.40 | 74.00  | 50.04       | 30.25 | 3.75   | 35.44 | 100   | 0 Peak     |
| 2 @ | 2378.96 | 38.40  | -15.60 | 54.00  | 39.84       | 30.25 | 3.75   | 35.44 | 106   | 12 Average |

Remark: There's no more obvious spurious emission except the listings above.

- Test Mode : Mode 2
- Polarization : Horizontal

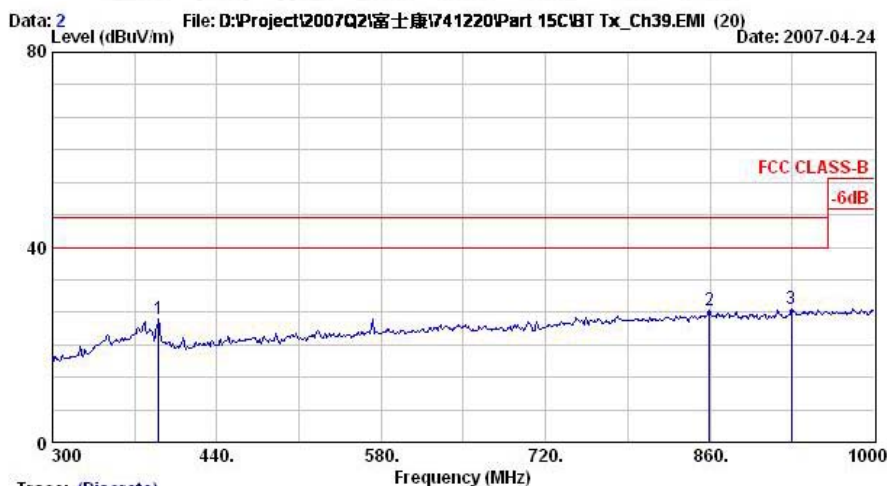
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 03CH06-HY  
Condition : LF-ANT(951121) HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DH1  
Case : Open

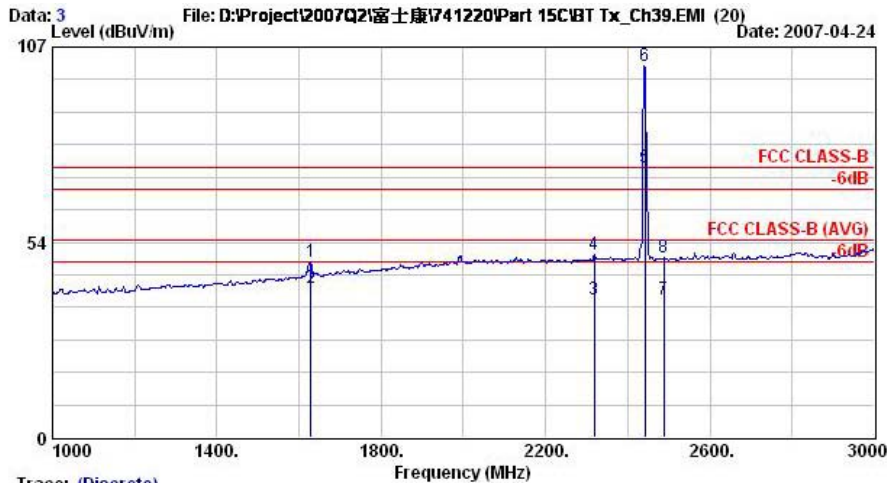
|   | Freq   | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table | Remark |
|---|--------|--------|--------|--------|-------------|-------|--------|-------|-------|--------|
|   | MHz    | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg    |
| 1 | 30.00  | 21.15  | -18.85 | 40.00  | 32.11       | 19.66 | 0.84   | 31.46 | ---   | Peak   |
| 2 | 75.09  | 21.21  | -18.79 | 40.00  | 43.88       | 7.18  | 1.32   | 31.16 | ---   | Peak   |
| 3 | 147.99 | 21.02  | -22.48 | 43.50  | 39.89       | 10.37 | 1.81   | 31.06 | ---   | Peak   |



Trace: (Discrete)

Site : 03CH06-HY  
Condition : LF-ANT(951121) HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DH1  
Case : Open

|   | Freq   | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table | Remark   |
|---|--------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|   | MHz    | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 | 390.30 | 25.22  | -20.78 | 46.00  | 37.52       | 15.51 | 3.06   | 30.87 | ---   | Peak     |
| 2 | 859.30 | 27.12  | -18.88 | 46.00  | 32.61       | 20.24 | 4.68   | 30.42 | ---   | Peak     |
| 3 | 929.30 | 27.38  | -18.62 | 46.00  | 32.06       | 20.74 | 4.90   | 30.32 | 100   | 221 Peak |

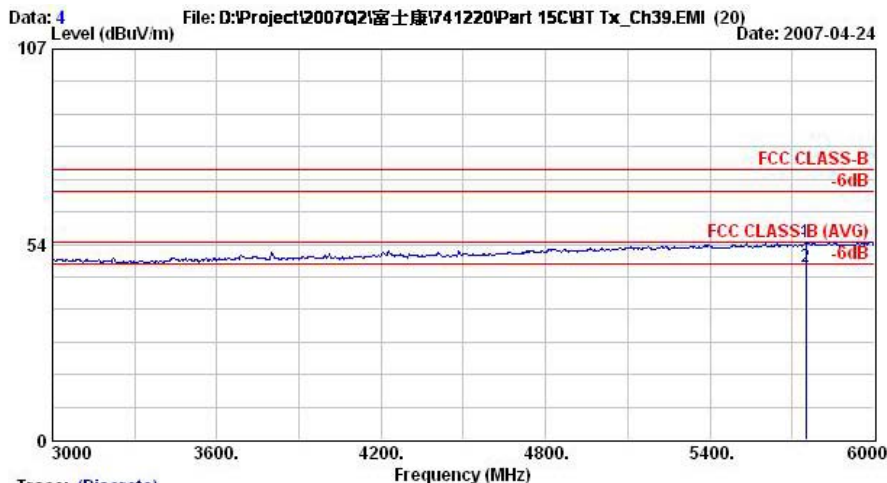


Trace: (Discrete)

Site : 03CH06-HY  
Condition : HP-ANT-060410 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DHI  
Case : Open

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table | Remark      |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|-------------|
|     | MHz     | dBuV/m | dB     | dBuV/m | Level       | Loss  | Factor | Pos   | Pos   |             |
|     |         |        |        |        | dBuV        | dB/m  | dB     | dB    | cm    | deg         |
| 1   | 1628.00 | 48.28  | -25.72 | 74.00  | 53.68       | 27.17 | 2.99   | 35.56 | 100   | 0 Peak      |
| 2   | 1628.00 | 40.88  | -13.12 | 54.00  | 46.28       | 27.17 | 2.99   | 35.56 | 102   | 325 Average |
| 3   | 2318.00 | 37.71  | -16.29 | 54.00  | 39.22       | 30.23 | 3.66   | 35.40 | 100   | 331 Average |
| 4   | 2318.00 | 50.12  | -23.88 | 74.00  | 51.63       | 30.23 | 3.66   | 35.40 | 100   | 0 Peak      |
| 5 @ | 2441.00 | 73.88  |        |        | 75.28       | 30.28 | 3.82   | 35.49 | 100   | 331 Average |
| 6 @ | 2441.00 | 101.83 |        |        | 103.21      | 30.28 | 3.82   | 35.47 | 100   | 0 Peak      |
| 7   | 2488.00 | 37.91  | -16.09 | 54.00  | 39.26       | 30.30 | 3.86   | 35.51 | 100   | 331 Average |
| 8   | 2488.00 | 49.20  | -24.80 | 74.00  | 50.55       | 30.30 | 3.86   | 35.51 | 100   | 0 Peak      |

Remark: #5 and #6 Fundamental Signal



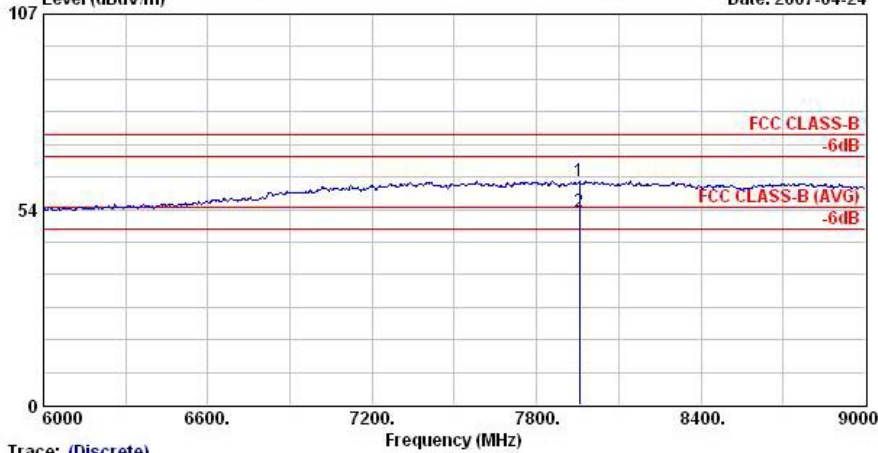
Trace: (Discrete)

Site : 03CH06-HY  
Condition : HP-ANT-060410 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DHI  
Case : Open

|   | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table | Remark      |
|---|---------|--------|--------|--------|-------------|-------|--------|-------|-------|-------------|
|   | MHz     | dBuV/m | dB     | dBuV/m | Level       | Loss  | Factor | Pos   | Pos   |             |
|   |         |        |        |        | dBuV        | dB/m  | dB     | dB    | cm    | deg         |
| 1 | 5751.00 | 54.10  | -19.90 | 74.00  | 49.20       | 33.84 | 6.91   | 35.85 | ---   | --- Peak    |
| 2 | 5751.00 | 47.20  | -6.80  | 54.00  | 42.30       | 33.84 | 6.91   | 35.85 | 100   | 204 Average |



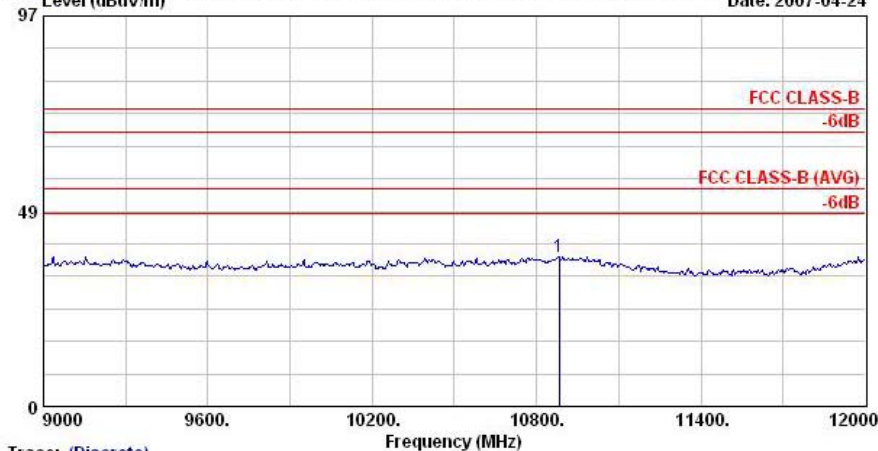
Data: 5 File: D:\Project\2007Q2\富士康741220\Part 15C\BT Tx\_Ch39.EMI (20) Date: 2007-04-24  
Level (dBuV/m)



Trace: (Discrete)  
Site : 03CH06-HY  
Condition : HF-ANT-060410 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DH1  
Case : Open

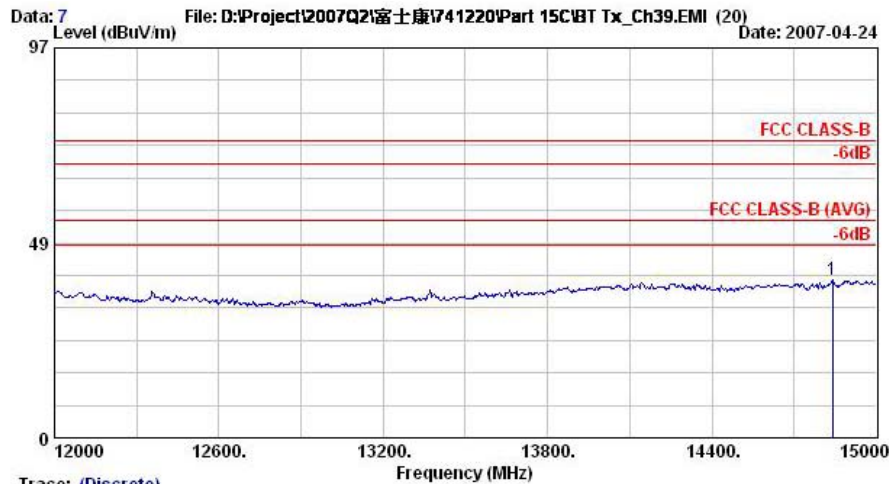
|     | Freq    | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table | Remark  |
|-----|---------|--------|--------|--------|-------|---------|-------|--------|-----|-------|---------|
|     | MHz     | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   |         |
|     |         |        | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |         |
| 1   | 7956.00 | 61.33  | -12.67 | 74.00  | 49.88 | 39.53   | 7.78  | 35.86  | --- | ---   | Peak    |
| 2 @ | 7956.00 | 52.80  | -1.20  | 54.00  | 41.35 | 39.53   | 7.78  | 35.86  | 100 | 301   | Average |

Data: 6 File: D:\Project\2007Q2\富士康741220\Part 15C\BT Tx\_Ch39.EMI (20) Date: 2007-04-24  
Level (dBuV/m)



Trace: (Discrete)  
Site : 03CH06-HY  
Condition : HF-ANT(8-18)-060918 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DH1  
Case : Open

|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table | Remark |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
|   | MHz      | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   |        |
|   |          |        | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |        |
| 1 | 10881.00 | 37.19  | -36.81 | 74.00  | 71.90 | -8.35   | 9.78  | 36.14  | --- | ---   | Peak   |



Trace: (Discrete)

Site : 03CH06-HY

Condition : HF-ANT(8-18)-060918 HORIZONTAL

EUT : GSM/GPRS/EDGE Mobile Phone

Power : 120Vac/60Hz

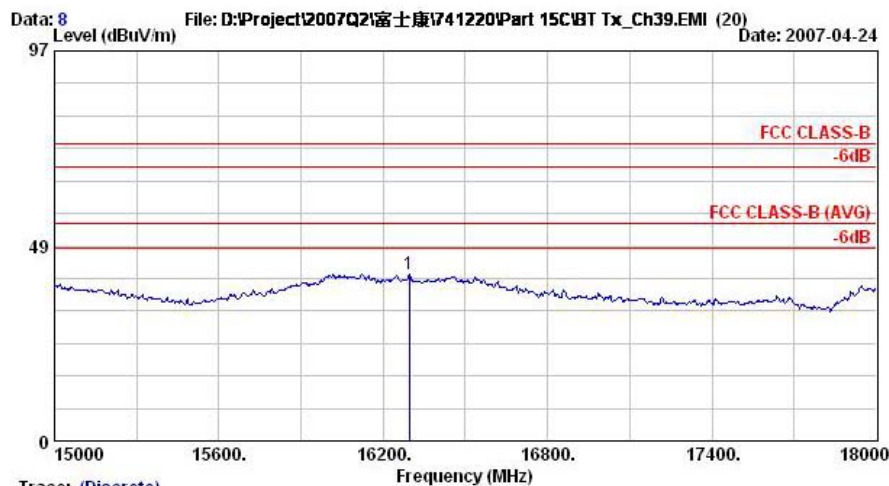
Model : FR 741220

Memo : BT Tx\_Ch39;2441MHz

Data Rate : DHI

Case : Open

|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |        |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
|   | MHz      | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   | Remark |
|   |          |        | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |        |
| 1 | 14841.00 | 39.35  | -34.65 | 74.00  | 70.14 | -6.33   | 11.42 | 35.87  | --- | ---   | Peak   |



Trace: (Discrete)

Site : 03CH06-HY

Condition : HF-ANT(8-18)-060918 HORIZONTAL

EUT : GSM/GPRS/EDGE Mobile Phone

Power : 120Vac/60Hz

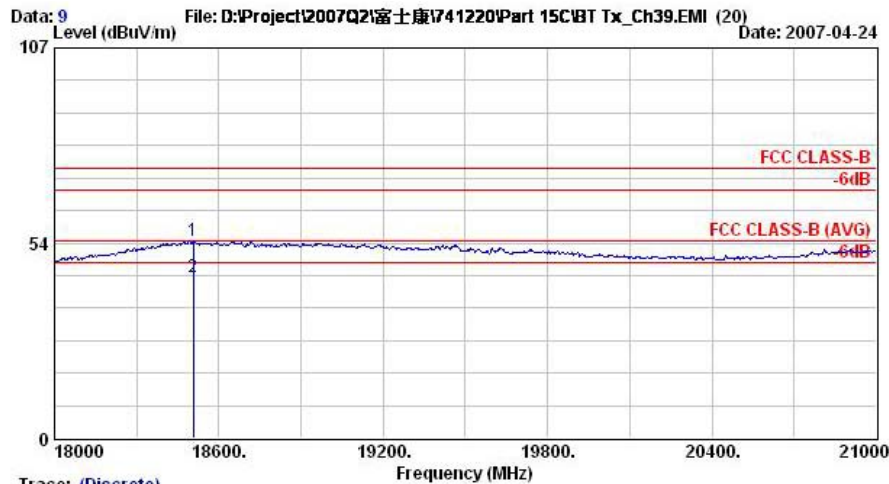
Model : FR 741220

Memo : BT Tx\_Ch39;2441MHz

Data Rate : DHI

Case : Open

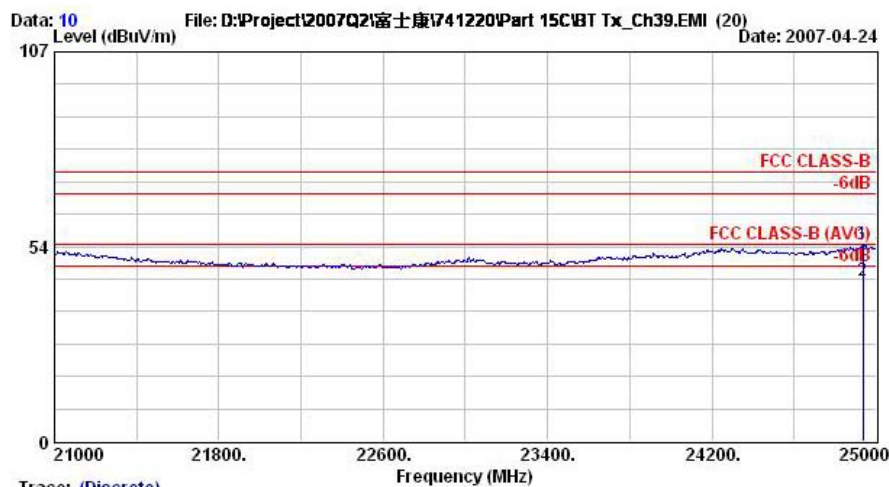
|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |        |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
|   | MHz      | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   | Remark |
|   |          |        | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |        |
| 1 | 16296.00 | 41.38  | -32.62 | 74.00  | 70.04 | -7.62   | 11.84 | 32.88  | --- | ---   | Peak   |



Trace: (Discrete)

- Site : 03CH06-HY
- Condition : SHF-EHF HORN HORIZONTAL
- EUT : GSM/GPRS/EDGE Mobile Phone
- Power : 120Vac/60Hz
- Model : FR 741220
- Memo : BT Tx\_Ch39;2441MHz
- Data Rate : DHI
- Case : Open

|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |         |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|---------|
|   | MHz      | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   | Remark  |
|   |          |        | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |         |
| 1 | 18507.00 | 54.23  | -19.77 | 74.00  | 49.66 | 21.19   | 19.30 | 35.92  | --- | ---   | Peak    |
| 2 | 18507.00 | 44.04  | -9.96  | 54.00  | 39.47 | 21.19   | 19.30 | 35.92  | 100 | 224   | Average |



Trace: (Discrete)

- Site : 03CH06-HY
- Condition : SHF-EHF HORN HORIZONTAL
- EUT : GSM/GPRS/EDGE Mobile Phone
- Power : 120Vac/60Hz
- Model : FR 741220
- Memo : BT Tx\_Ch39;2441MHz
- Data Rate : DHI
- Case : Open

|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |         |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|---------|
|   | MHz      | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   | Remark  |
|   |          |        | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |         |
| 1 | 24936.00 | 53.98  | -20.02 | 74.00  | 52.04 | 21.83   | 18.64 | 38.53  | --- | ---   | Peak    |
| 2 | 24936.00 | 44.24  | -9.76  | 54.00  | 42.30 | 21.83   | 18.64 | 38.53  | 100 | 287   | Average |

Remark: There's no more obvious spurious emission except the listings above.

- Test Mode : Mode 2
- Polarization : Vertical

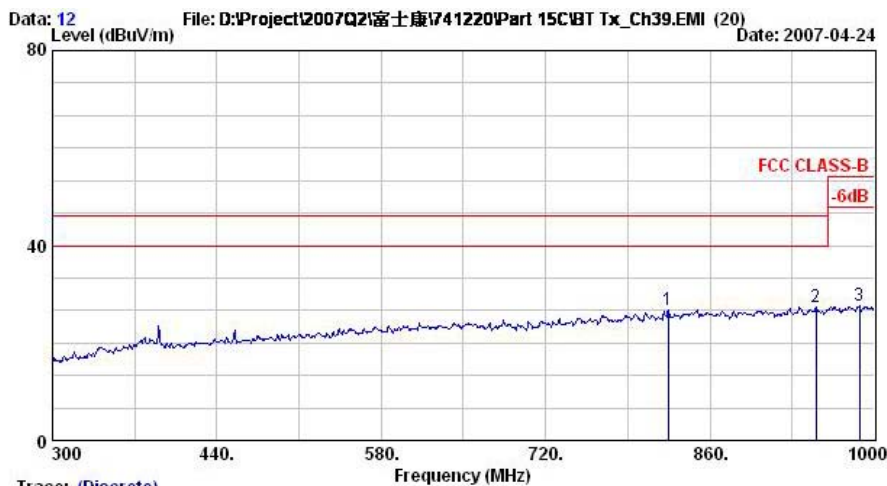
■ The test that passed at minimum margin was marked by the frame in the following table.



Trace: (Discrete)

Site : 03CH06-HY  
Condition : LP-ANT(951121) VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DH1  
Case : Open

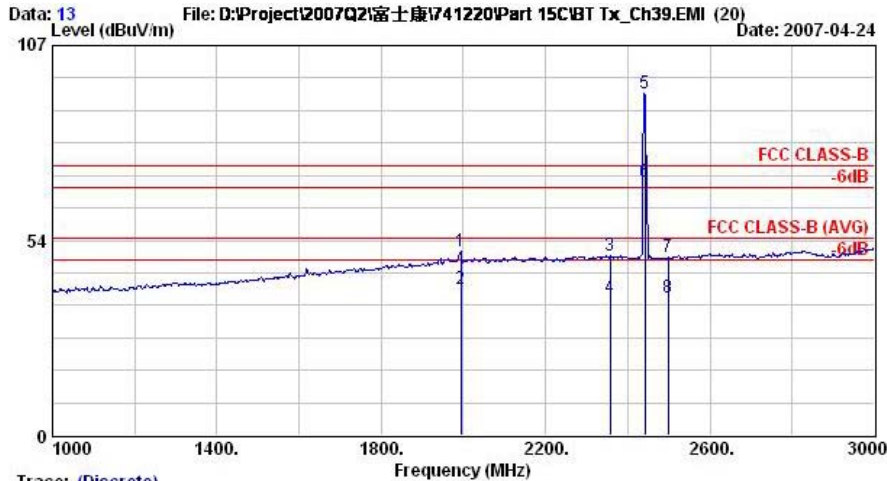
|   | Freq  | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table | Remark   |
|---|-------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|   | MHz   | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 | 33.24 | 25.62  | -14.38 | 40.00  | 38.57       | 17.54 | 0.86   | 31.36 | 100   | 335 Peak |
| 2 | 39.18 | 23.61  | -16.39 | 40.00  | 39.87       | 14.03 | 0.91   | 31.21 | ---   | ---      |
| 3 | 74.28 | 21.74  | -18.26 | 40.00  | 44.40       | 7.18  | 1.32   | 31.16 | ---   | ---      |



Trace: (Discrete)

Site : 03CH06-HY  
Condition : LP-ANT(951121) VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DH1  
Case : Open

|   | Freq   | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table | Remark |
|---|--------|--------|--------|--------|-------------|-------|--------|-------|-------|--------|
|   | MHz    | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg    |
| 1 | 824.30 | 26.86  | -19.14 | 46.00  | 32.69       | 19.99 | 4.64   | 30.46 | ---   | ---    |
| 2 | 950.30 | 27.45  | -18.55 | 46.00  | 31.88       | 20.89 | 4.96   | 30.28 | ---   | ---    |
| 3 | 987.40 | 27.57  | -26.43 | 54.00  | 31.60       | 21.15 | 5.10   | 30.27 | ---   | ---    |

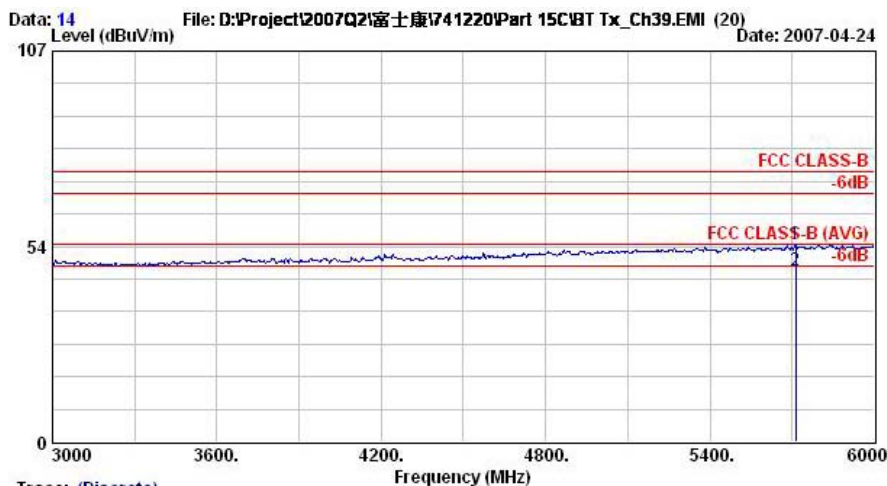


Trace: (Discrete)

Site : 03CH06-RV  
Condition : HF-ANT-060410 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DH1  
Case : Open

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table | Remark      |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|-------------|
|     | MHz     | dBuV/m | dB     | dBuV/m | Level       | Loss  | Factor | Pos   | Pos   |             |
|     |         |        |        |        | dBuV        | dB/m  | dB     | dB    | cm    | deg         |
| 1   | 1994.00 | 50.59  | -23.41 | 74.00  | 52.50       | 29.97 | 3.30   | 35.17 | 100   | 0 Peak      |
| 2   | 1994.00 | 40.20  | -13.80 | 54.00  | 42.10       | 29.97 | 3.30   | 35.17 | 100   | 301 Average |
| 3   | 2358.00 | 49.37  | -24.63 | 74.00  | 50.84       | 30.24 | 3.71   | 35.42 | 100   | 0 Peak      |
| 4   | 2358.00 | 37.82  | -16.18 | 54.00  | 39.29       | 30.24 | 3.71   | 35.42 | 102   | 12 Average  |
| 5 @ | 2441.00 | 93.80  |        |        | 95.18       | 30.28 | 3.82   | 35.47 | 100   | 0 Peak      |
| 6 @ | 2441.00 | 69.44  |        |        | 70.84       | 30.28 | 3.82   | 35.49 | 102   | 12 Average  |
| 7   | 2498.00 | 48.77  | -25.23 | 74.00  | 50.12       | 30.30 | 3.88   | 35.53 | 100   | 0 Peak      |
| 8   | 2498.00 | 37.97  | -16.03 | 54.00  | 39.32       | 30.30 | 3.88   | 35.53 | 102   | 12 Average  |

Remark: #5 and #6 Fundamental Signal



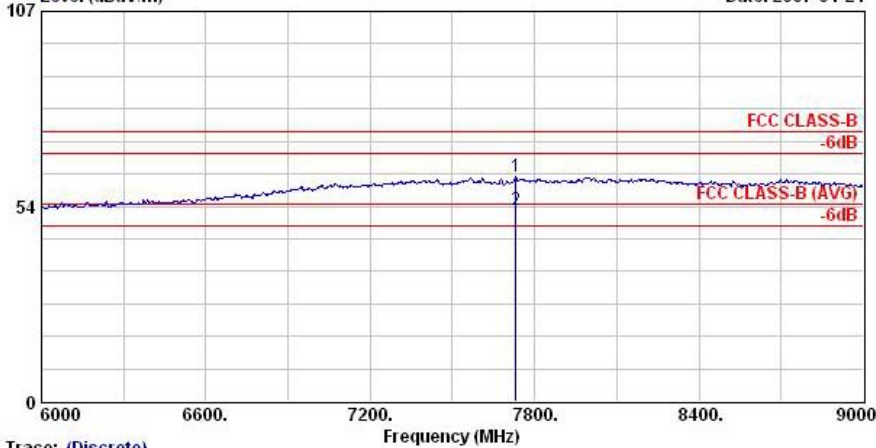
Trace: (Discrete)

Site : 03CH06-RV  
Condition : HF-ANT-060410 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DH1  
Case : Open

|   | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table | Remark      |
|---|---------|--------|--------|--------|-------------|-------|--------|-------|-------|-------------|
|   | MHz     | dBuV/m | dB     | dBuV/m | Level       | Loss  | Factor | Pos   | Pos   |             |
|   |         |        |        |        | dBuV        | dB/m  | dB     | dB    | cm    | deg         |
| 1 | 5712.00 | 54.05  | -19.95 | 74.00  | 49.21       | 33.81 | 6.90   | 35.86 | ---   | --- Peak    |
| 2 | 5712.00 | 46.84  | -7.16  | 54.00  | 42.00       | 33.81 | 6.90   | 35.86 | 100   | 265 Average |



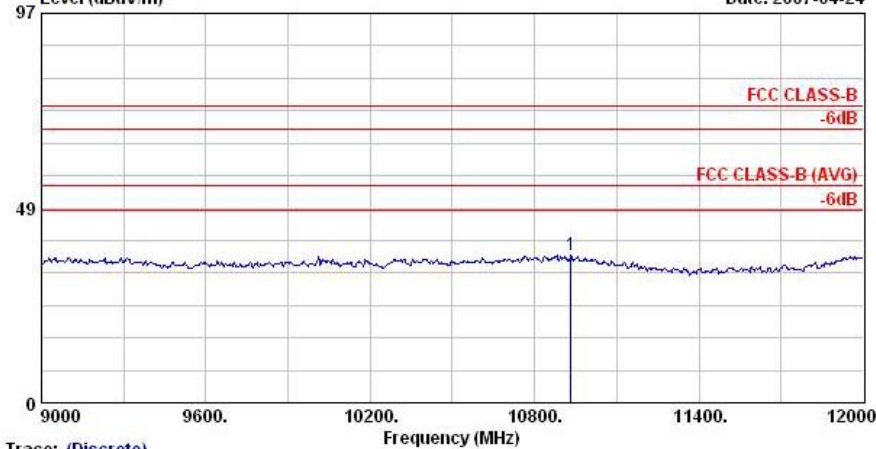
Data: 15 File: D:\Project\2007Q2\富士康741220\Part 15C\BT Tx\_Ch39.EMI (20) Date: 2007-04-24  
Level (dBuV/m)



Trace: (Discrete)  
Site : 03CH06-HY  
Condition : HF-ANT-060410 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DHI  
Case : Open

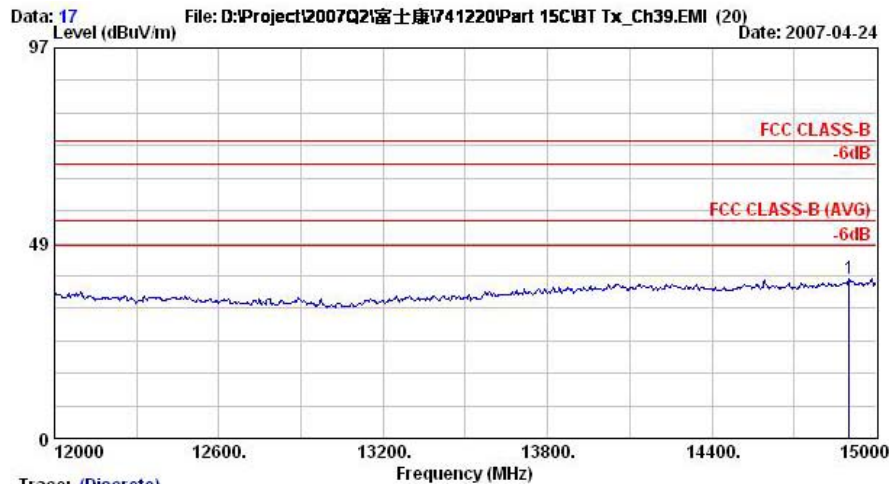
|     | Freq    | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |         |
|-----|---------|--------|--------|--------|-------|---------|-------|--------|-----|-------|---------|
|     | MHz     | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   | Remark  |
|     |         |        | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |         |
| 1   | 7731.00 | 61.74  | -12.26 | 74.00  | 50.78 | 39.23   | 7.69  | 35.96  | --- | ---   | Peak    |
| 2 ! | 7731.00 | 52.35  | -1.65  | 54.00  | 41.39 | 39.23   | 7.69  | 35.96  | 100 | 154   | Average |

Data: 16 File: D:\Project\2007Q2\富士康741220\Part 15C\BT Tx\_Ch39.EMI (20) Date: 2007-04-24  
Level (dBuV/m)



Trace: (Discrete)  
Site : 03CH06-HY  
Condition : HF-ANT(8-18)-060918 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DHI  
Case : Open

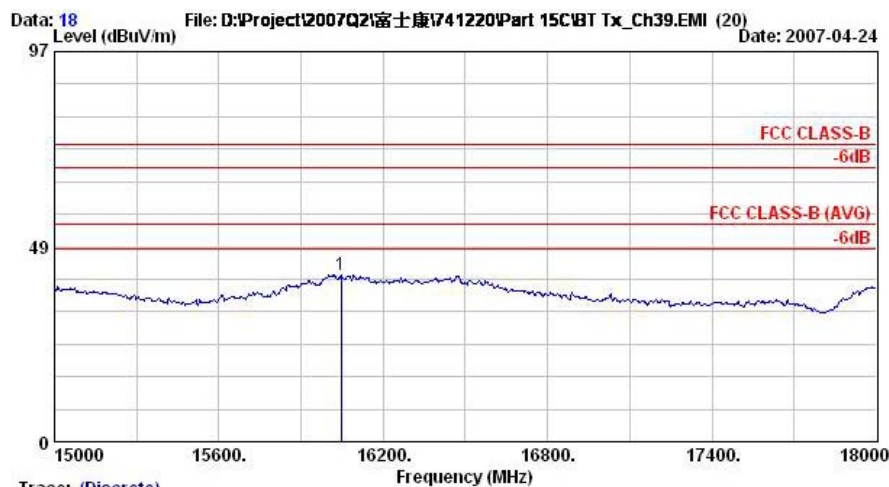
|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |        |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
|   | MHz      | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   | Remark |
|   |          |        | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |        |
| 1 | 10932.00 | 36.81  | -37.19 | 74.00  | 71.39 | -8.33   | 9.83  | 36.08  | --- | ---   | Peak   |



Trace: (Discrete)

Site : 03CH06-RV  
Condition : HF-ANT(8-18)-060918 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DHI  
Case : Open

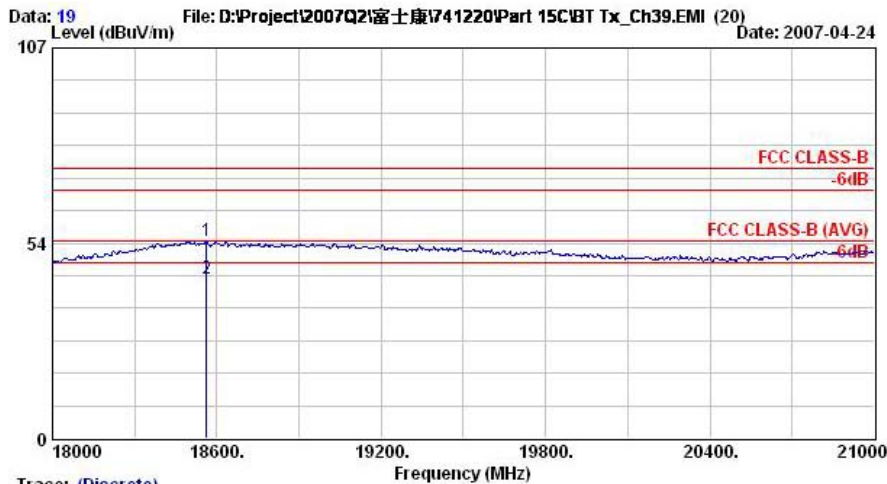
|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |        |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
|   | MHz      | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   | Remark |
|   |          |        | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |        |
| 1 | 14901.00 | 39.74  | -34.26 | 74.00  | 70.60 | -6.28   | 11.34 | 35.93  | --- | ---   | Peak   |



Trace: (Discrete)

Site : 03CH06-RV  
Condition : HF-ANT(8-18)-060918 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DHI  
Case : Open

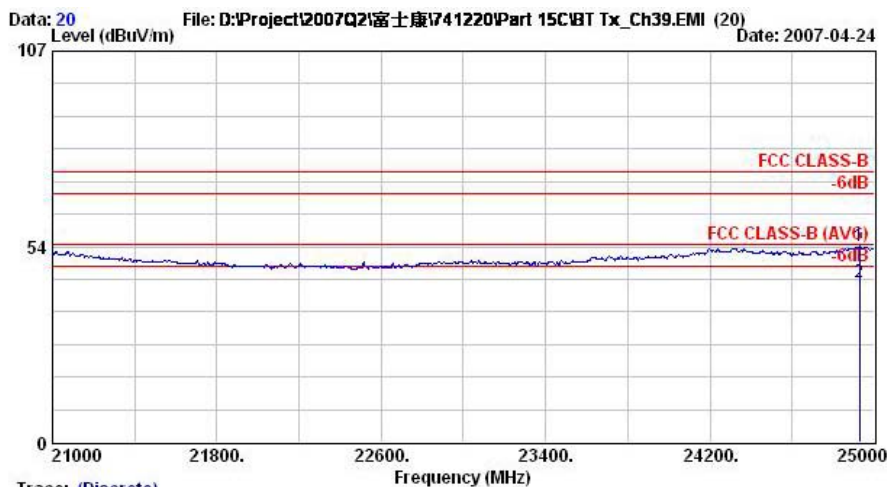
|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |        |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
|   | MHz      | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   | Remark |
|   |          |        | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |        |
| 1 | 16047.00 | 41.64  | -32.36 | 74.00  | 70.21 | -4.52   | 11.78 | 35.83  | --- | ---   | Peak   |



Trace: (Discrete)

Site : 03CH06-HY  
Condition : SHF-EHF HORN VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DH1  
Case : Open

|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |         |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|---------|
|   | MHz      | dBuV/m | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   | Remark  |
| 1 | 18561.00 | 53.91  | -20.09 | 74.00  | 49.45 | 21.19   | 19.17 | 35.90  | --- | ---   | Peak    |
| 2 | 18561.00 | 43.91  | -10.09 | 54.00  | 39.45 | 21.19   | 19.17 | 35.90  | 100 | 334   | Average |



Trace: (Discrete)

Site : 03CH06-HY  
Condition : SHF-EHF HORN VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch39;2441MHz  
Data Rate : DH1  
Case : Open

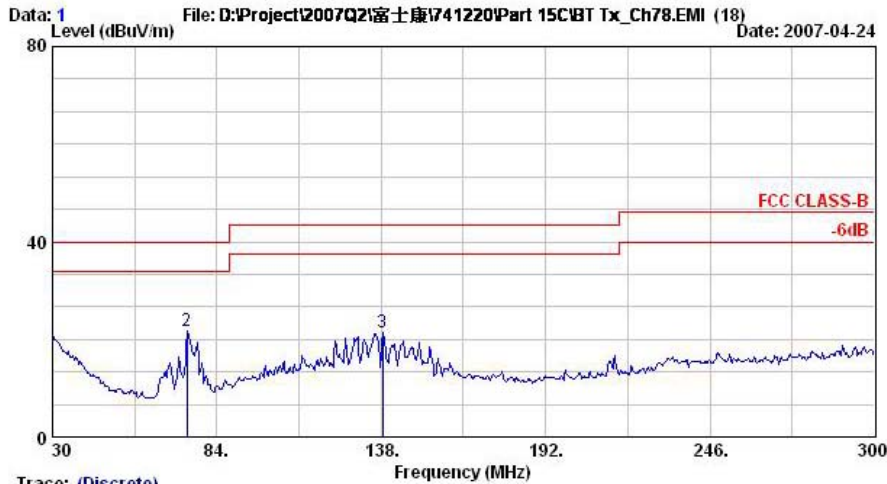
|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |         |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|---------|
|   | MHz      | dBuV/m | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   | Remark  |
| 1 | 24928.00 | 53.64  | -20.36 | 74.00  | 51.63 | 21.87   | 18.69 | 38.55  | --- | ---   | Peak    |
| 2 | 24928.00 | 43.61  | -10.39 | 54.00  | 41.60 | 21.87   | 18.69 | 38.55  | 100 | 154   | Average |

Remark: There's no more obvious spurious emission except the listings above.



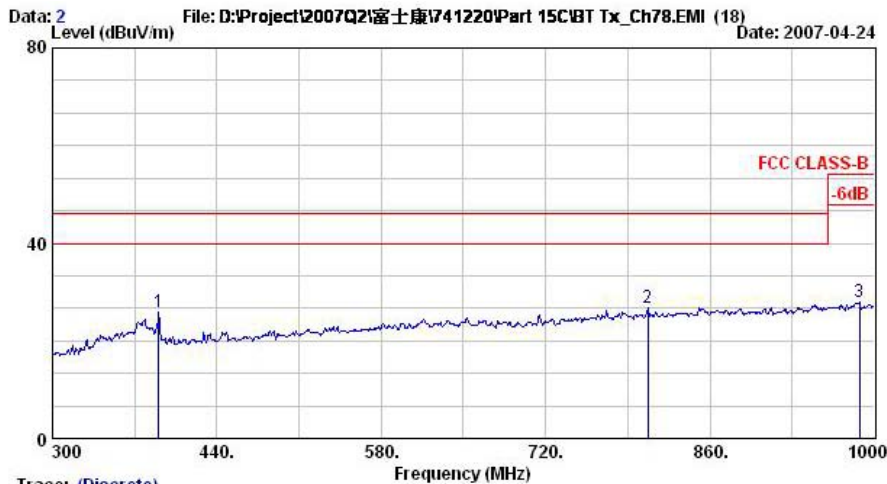
- Test Mode : Mode 3
- Polarization : Horizontal

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



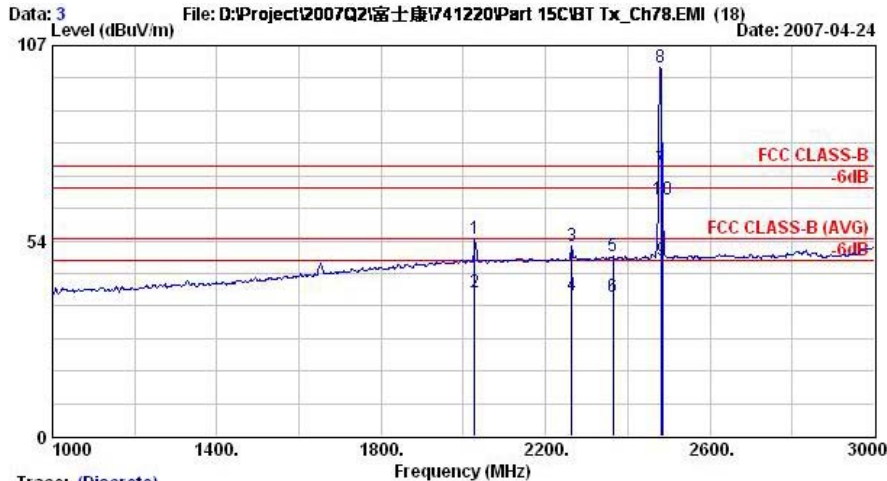
Site : 03CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : GSM/GPRS/EDGE Mobile Phone  
 Power : 120Vac/60Hz  
 Model : FR 741220  
 Memo : BT Tx\_Ch78;2480MHz  
 Data Rate : DH1  
 Case : Open

|   | Freq   | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable<br>Loss | Preamp<br>Factor | Ant<br>Pos | Table<br>Pos | Remark |
|---|--------|--------|---------------|---------------|-----------------------------|---------------|------------------|------------|--------------|--------|
|   | MHz    | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m          | dB               | dB         | cm           | deg    |
| 1 | 30.00  | 20.89  | -19.11        | 40.00         | 31.85                       | 19.66         | 0.84             | 31.46      | ---          | ---    |
| 2 | 74.28  | 21.65  | -18.35        | 40.00         | 44.31                       | 7.18          | 1.32             | 31.16      | 100          | 265    |
| 3 | 138.54 | 21.39  | -22.11        | 43.50         | 40.30                       | 10.41         | 1.73             | 31.05      | ---          | ---    |



Site : 03CH06-HY  
 Condition : LF-ANT(951121) HORIZONTAL  
 EUT : GSM/GPRS/EDGE Mobile Phone  
 Power : 120Vac/60Hz  
 Model : FR 741220  
 Memo : BT Tx\_Ch78;2480MHz  
 Data Rate : DH1  
 Case : Open

|   | Freq   | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level Factor | Cable Preamp<br>Loss Factor | Ant<br>Pos | Table<br>Pos | Remark |     |      |
|---|--------|--------|---------------|---------------|-----------------------------|-----------------------------|------------|--------------|--------|-----|------|
|   | MHz    | dBuV/m | dB            | dBuV/m        | dBuV                        | dB/m                        | dB         | dB           | cm     | deg |      |
| 1 | 390.30 | 25.97  | -20.03        | 46.00         | 38.27                       | 15.51                       | 3.06       | 30.87        | ---    | --- | Peak |
| 2 | 806.80 | 26.74  | -19.26        | 46.00         | 32.72                       | 19.87                       | 4.63       | 30.48        | ---    | --- | Peak |
| 3 | 987.40 | 27.87  | -26.13        | 54.00         | 31.90                       | 21.15                       | 5.10       | 30.27        | ---    | --- | Peak |

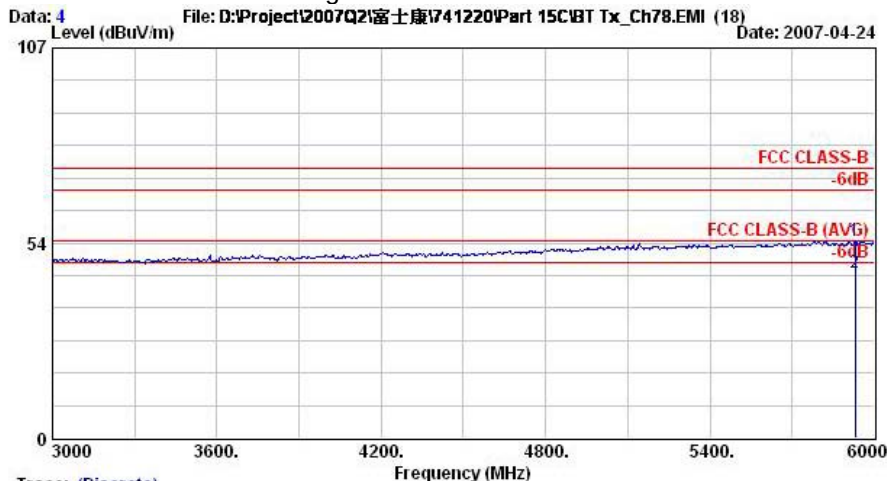


Trace: (Discrete)

Site : 03CH06-HY  
Condition : HF-ANT-060410 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch78;2480MHz  
Data Rate : DH1  
Case : Open

|      | Freq    | Level  | Over   | Limit  | Read   | Antenna | Cable | Preamp | Ant | Table | Remark  |
|------|---------|--------|--------|--------|--------|---------|-------|--------|-----|-------|---------|
|      | MHz     | dBuV/m | dB     | dBuV/m | dBuV   | dB/m    | dB    | dB     | cm  | deg   |         |
| 1    | 2028.00 | 53.93  | -20.07 | 74.00  | 55.68  | 30.11   | 3.34  | 35.19  | 100 | 0     | Peak    |
| 2    | 2028.00 | 39.57  | -14.43 | 54.00  | 41.31  | 30.11   | 3.34  | 35.19  | 118 | 103   | Average |
| 3    | 2264.00 | 52.29  | -21.71 | 74.00  | 53.84  | 30.20   | 3.62  | 35.37  | 100 | 0     | Peak    |
| 4    | 2264.00 | 38.56  | -15.44 | 54.00  | 40.10  | 30.20   | 3.62  | 35.37  | 100 | 133   | Average |
| 5    | 2364.00 | 49.14  | -24.86 | 74.00  | 50.59  | 30.24   | 3.73  | 35.42  | 100 | 0     | Peak    |
| 6    | 2364.00 | 38.09  | -15.91 | 54.00  | 39.54  | 30.24   | 3.73  | 35.42  | 100 | 330   | Average |
| 7 @  | 2480.00 | 73.28  |        |        | 74.64  | 30.29   | 3.86  | 35.51  | 100 | 330   | Average |
| 8 @  | 2480.00 | 101.05 |        |        | 102.41 | 30.29   | 3.86  | 35.51  | 100 | 0     | Peak    |
| 9 @  | 2483.50 | 48.28  | -5.72  | 54.00  | 49.64  | 30.29   | 3.86  | 35.51  | 100 | 330   | Average |
| 10 @ | 2483.50 | 64.98  | -9.02  | 74.00  | 66.34  | 30.29   | 3.86  | 35.51  | 100 | 0     | Peak    |

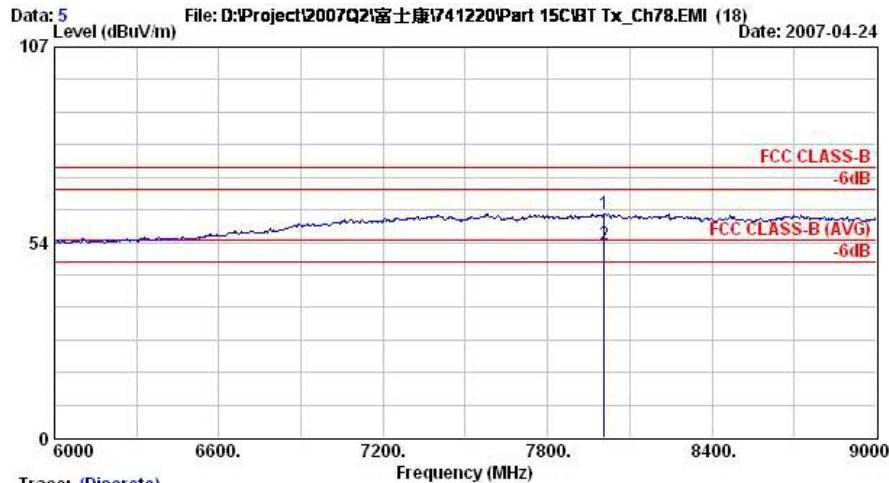
Remark: #7 and #8 Fundamental Signal



Trace: (Discrete)

Site : 03CH06-HY  
Condition : HF-ANT-060410 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch78;2480MHz  
Data Rate : DH1  
Case : Open

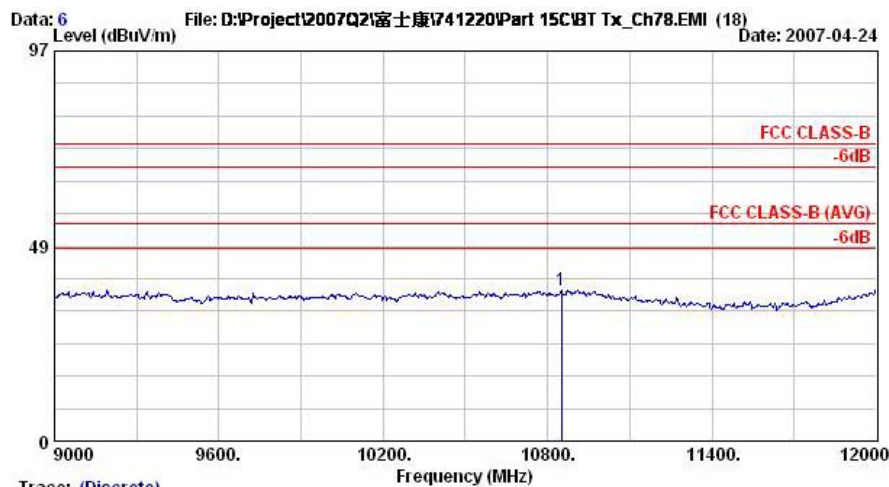
|     | Freq    | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table | Remark  |
|-----|---------|--------|--------|--------|-------|---------|-------|--------|-----|-------|---------|
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |         |
| 1   | 5931.00 | 54.06  | -19.94 | 74.00  | 48.83 | 34.03   | 6.93  | 35.73  | --- | ---   | Peak    |
| 2 @ | 5931.00 | 45.43  | -8.57  | 54.00  | 40.20 | 34.03   | 6.93  | 35.73  | 100 | 111   | Average |



Trace: (Discrete)

Site : 03CH06-RV  
Condition : HF-ANT-060410 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch78;2480MHz  
Data Rate : DH1  
Case : Open

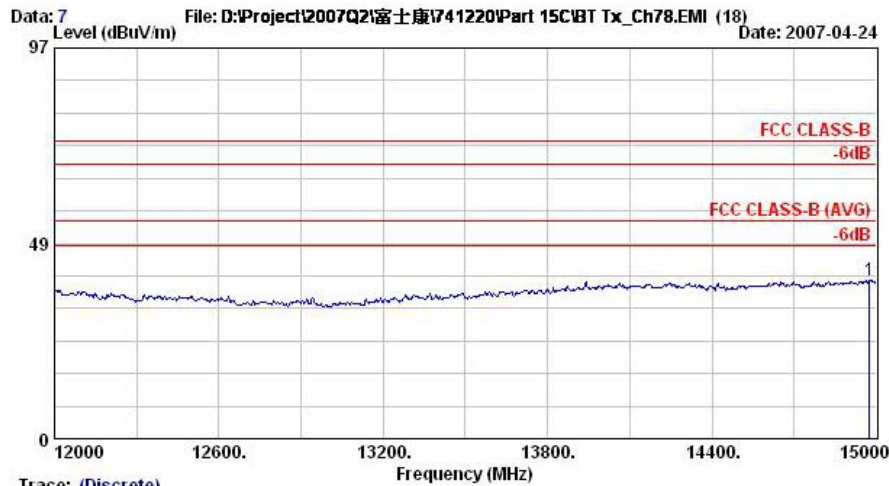
| Case : Open |         |        |            |            |                   |                |            |               |         |           |         |
|-------------|---------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|-----------|---------|
|             | Freq    | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark  |
|             | MHz     | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            | cm      | deg       |         |
| 1           | 8007.00 | 61.24  | -12.76     | 74.00      | 49.69             | 39.60          | 7.81       | 35.86         | ---     | ---       | Peak    |
| 2 @         | 8007.00 | 52.85  | -1.15      | 54.00      | 41.30             | 39.60          | 7.81       | 35.86         | 100     | 225       | Average |



Trace: (Discrete)

Site : 03CH06-RV  
Condition : HF-ANT(8-18)-060918 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch78;2480MHz  
Data Rate : DH1  
Case : Open

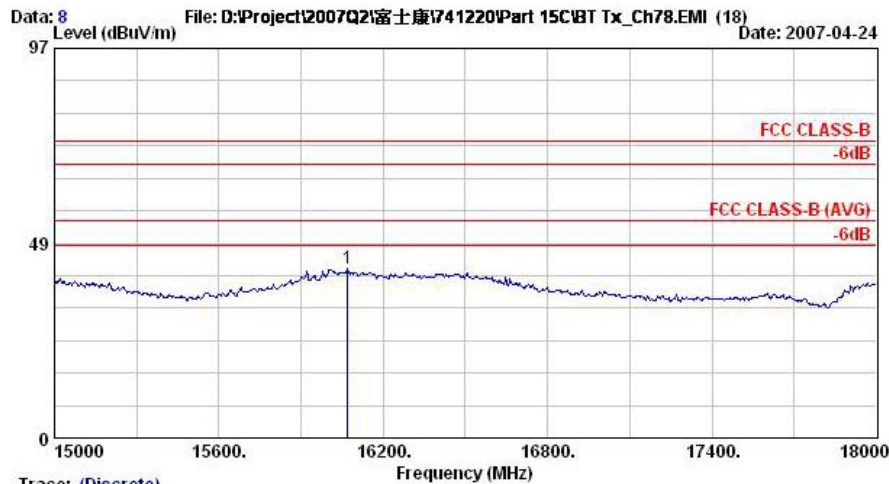
|   | Open     |        |            |            |                   |        |            |               |         |           |        |
|---|----------|--------|------------|------------|-------------------|--------|------------|---------------|---------|-----------|--------|
|   | Freq     | Level  | Over Limit | Limit Line | ReadAntenna Level | Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Remark |
|   | MHz      | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m   | dB         | dB            | cm      | deg       |        |
| 1 | 10851.00 | 37.65  | -36.35     | 74.00      | 72.44             | -8.36  | 9.75       | 36.18         | ---     | ---       | Peak   |



Trace: (Discrete)

- : 03CH06-HY
- : HF-ANT(8-18)-060918 HORIZONTAL
- : GSM/GPRS/EDGE Mobile Phone
- : 120Vac/60Hz
- : FR 741220
- : BT Tx\_Ch78;2480MHz
- : DH1
- : Open

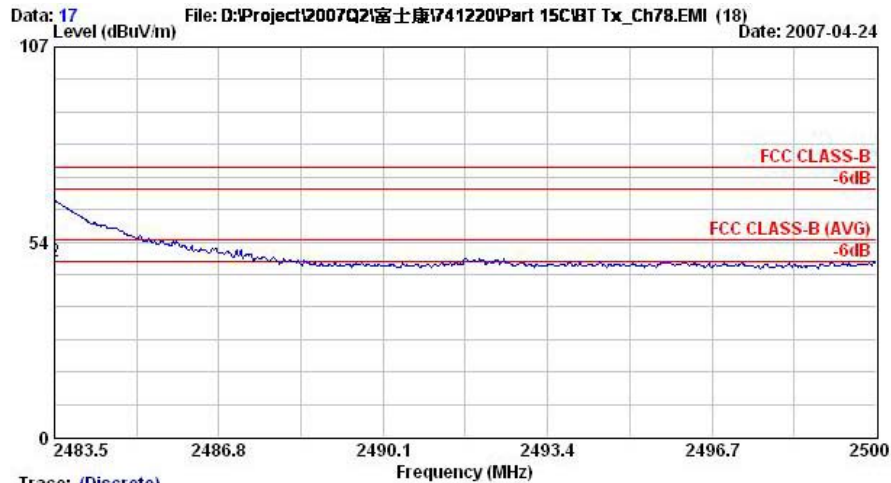
|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |        |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
|   | MHz      | dBuV/m | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   | Remark |
| 1 | 14976.00 | 39.38  | -34.62 | 74.00  | 70.33 | -6.22   | 11.27 | 36.01  | --- | ---   | Peak   |



Trace: (Discrete)

- : 03CH06-HY
- : HF-ANT(8-18)-060918 HORIZONTAL
- : GSM/GPRS/EDGE Mobile Phone
- : 120Vac/60Hz
- : FR 741220
- : BT Tx\_Ch78;2480MHz
- : DH1
- : Open

|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |        |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
|   | MHz      | dBuV/m | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   | Remark |
| 1 | 16071.00 | 42.04  | -31.96 | 74.00  | 70.56 | -4.77   | 11.79 | 35.53  | --- | ---   | Peak   |



Trace: (Discrete)  
Site : 03CH06-HY  
Condition : HF-ANT-060410 HORIZONTAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch78;2480MHz  
Data Rate : DH1  
Case : Open

|     | Freq    | Level  | Over  | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |         |
|-----|---------|--------|-------|--------|-------|---------|-------|--------|-----|-------|---------|
|     | MHz     | dBuV/m | Limit | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   | Remark  |
|     |         |        | dB    | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |         |
| 1 @ | 2483.50 | 64.98  | -9.02 | 74.00  | 66.34 | 30.29   | 3.86  | 35.51  | 100 | 0     | Peak    |
| 2 @ | 2483.50 | 48.28  | -5.72 | 54.00  | 49.64 | 30.29   | 3.86  | 35.51  | 100 | 330   | Average |

Remark: There's no more obvious spurious emission except the listings above.



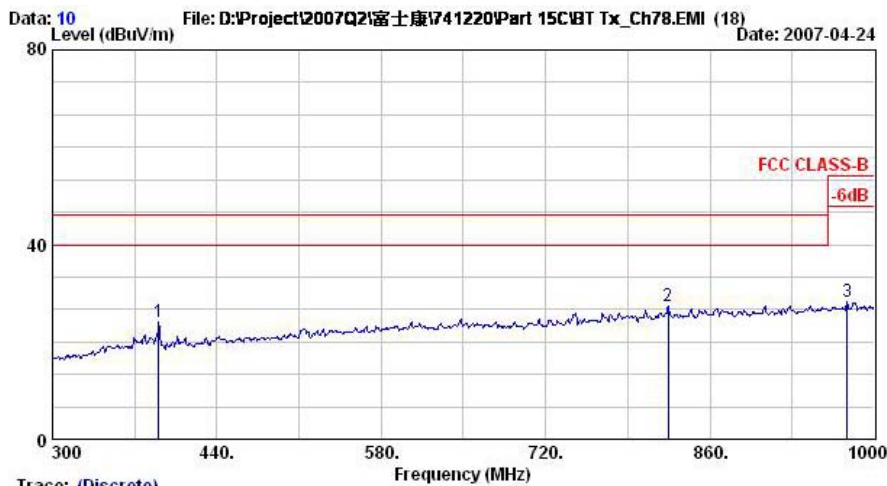
- Test Mode : Mode 3
- Polarization : Vertical

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



Site : 03CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : GSM/GPRS/EDGE Mobile Phone  
 Power : 120Vac/60Hz  
 Model : FR 741220  
 Memo : BT Tx\_Ch78;2480MHz  
 Data Rate : DH1  
 Case : Open

|   | Freq  | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table | Remark   |
|---|-------|--------|--------|--------|-------------|-------|--------|-------|-------|----------|
|   | MHz   | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg      |
| 1 | 33.78 | 25.47  | -14.53 | 40.00  | 39.08       | 16.84 | 0.87   | 31.32 | 100   | 304 Peak |
| 2 | 38.64 | 24.21  | -15.79 | 40.00  | 40.49       | 14.03 | 0.91   | 31.23 | ---   | ---      |
| 3 | 75.09 | 20.88  | -19.12 | 40.00  | 43.55       | 7.18  | 1.32   | 31.16 | ---   | ---      |

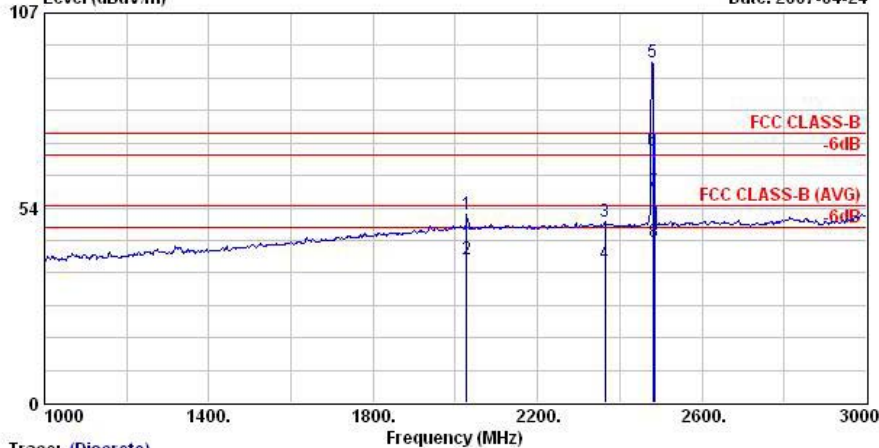


Site : 03CH06-HY  
 Condition : LF-ANT(951121) VERTICAL  
 EUT : GSM/GPRS/EDGE Mobile Phone  
 Power : 120Vac/60Hz  
 Model : FR 741220  
 Memo : BT Tx\_Ch78;2480MHz  
 Data Rate : DH1  
 Case : Open

|   | Freq   | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table | Remark |
|---|--------|--------|--------|--------|-------------|-------|--------|-------|-------|--------|
|   | MHz    | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg    |
| 1 | 390.30 | 24.19  | -21.81 | 46.00  | 36.49       | 15.51 | 3.06   | 30.87 | ---   | ---    |
| 2 | 824.30 | 27.48  | -18.52 | 46.00  | 33.31       | 19.99 | 4.64   | 30.46 | ---   | ---    |
| 3 | 976.90 | 28.25  | -25.75 | 54.00  | 32.39       | 21.07 | 5.06   | 30.27 | ---   | ---    |



Data: 11 File: D:\Project\2007Q2\富士康741220\Part 15C\BT Tx\_Ch78.EMI (18) Date: 2007-04-24



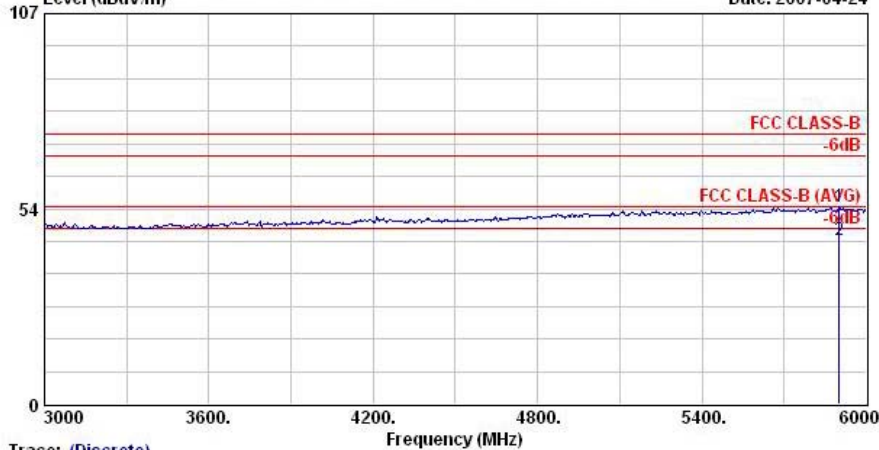
Trace: (Discrete)

Site : 03CH06-HY  
Condition : HF-ANT-060410 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch78;2480MHz  
Data Rate : DH1  
Case : Open

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table | Remark      |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|-------------|
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg         |
| 1   | 2028.00 | 51.60  | -22.40 | 74.00  | 53.34       | 30.11 | 3.34   | 35.19 | 100   | 0 Peak      |
| 2   | 2028.00 | 39.23  | -14.77 | 54.00  | 40.97       | 30.11 | 3.34   | 35.19 | 100   | 224 Average |
| 3   | 2364.00 | 49.85  | -24.15 | 74.00  | 51.30       | 30.24 | 3.73   | 35.42 | 100   | 0 Peak      |
| 4   | 2364.00 | 38.11  | -15.89 | 54.00  | 39.56       | 30.24 | 3.73   | 35.42 | 100   | 12 Average  |
| 5 @ | 2480.00 | 93.60  |        |        | 94.96       | 30.29 | 3.86   | 35.51 | 100   | 0 Peak      |
| 6 @ | 2480.00 | 69.10  |        |        | 70.46       | 30.29 | 3.86   | 35.51 | 100   | 12 Average  |
| 7   | 2483.50 | 58.04  | -15.96 | 74.00  | 59.40       | 30.29 | 3.86   | 35.51 | 100   | 0 Peak      |
| 8   | 2483.50 | 44.27  | -9.73  | 54.00  | 45.63       | 30.29 | 3.86   | 35.51 | 100   | 12 Average  |

Remark: #5 and #6 Fundamental Signal

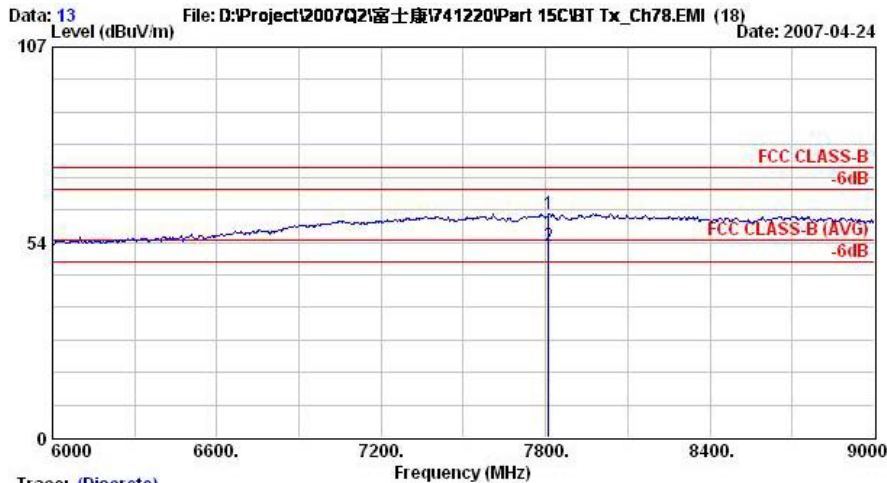
Data: 12 File: D:\Project\2007Q2\富士康741220\Part 15C\BT Tx\_Ch78.EMI (18) Date: 2007-04-24



Trace: (Discrete)

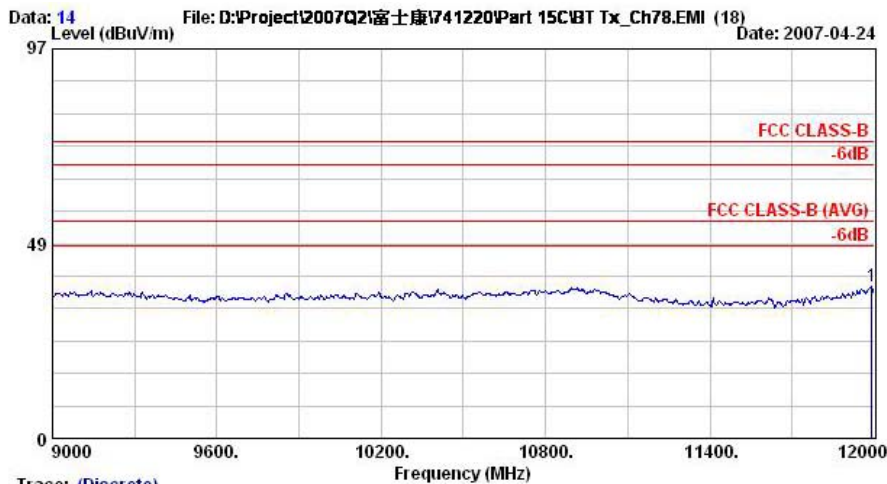
Site : 03CH06-HY  
Condition : HF-ANT-060410 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch78;2480MHz  
Data Rate : DH1  
Case : Open

|     | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Ant   | Table | Remark      |
|-----|---------|--------|--------|--------|-------------|-------|--------|-------|-------|-------------|
|     | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB    | cm    | deg         |
| 1   | 5901.00 | 53.94  | -20.06 | 74.00  | 48.77       | 34.00 | 6.93   | 35.75 | ---   | ---         |
| 2 @ | 5901.00 | 44.98  | -9.02  | 54.00  | 39.80       | 34.00 | 6.93   | 35.75 | 100   | 228 Average |



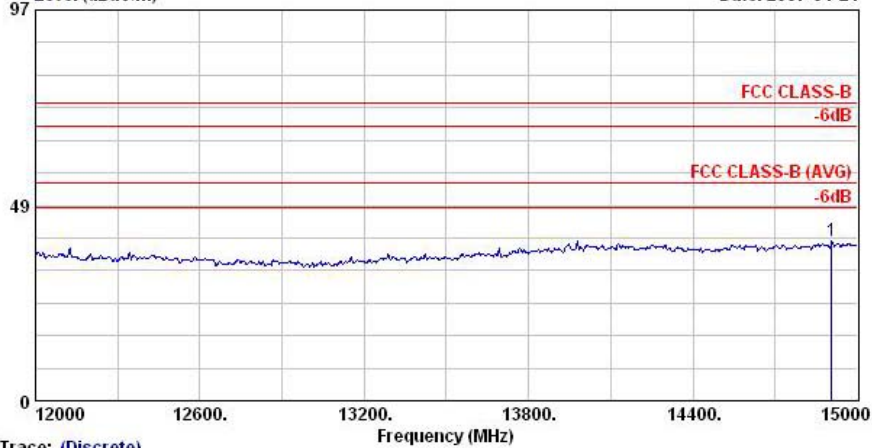
Trace: (Discrete)  
Site : 03CH06-HY  
Condition : HF-ANT-060410 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch78;2480MHz  
Data Rate : DH1  
Case : Open

|     | Freq    | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |         |
|-----|---------|--------|--------|--------|-------|---------|-------|--------|-----|-------|---------|
|     | MHz     | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   | Remark  |
|     |         |        | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |         |
| 1   | 7812.00 | 61.40  | -12.60 | 74.00  | 50.26 | 39.34   | 7.73  | 35.92  | --- | ---   | Peak    |
| 2 @ | 7812.00 | 52.65  | -1.35  | 54.00  | 41.50 | 39.34   | 7.73  | 35.92  | 100 | 334   | Average |



Trace: (Discrete)  
Site : 03CH06-HY  
Condition : HF-ANT(8-18)-060918 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch78;2480MHz  
Data Rate : DH1  
Case : Open

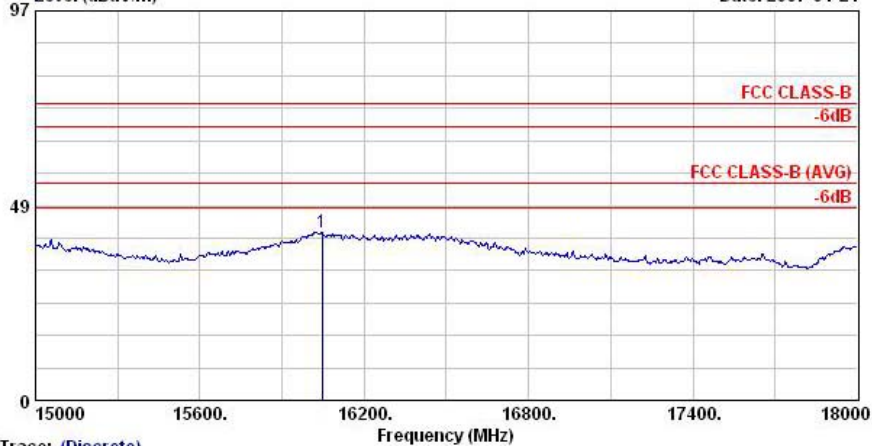
|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |        |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
|   | MHz      | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   | Remark |
|   |          |        | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |        |
| 1 | 11991.00 | 37.84  | -36.16 | 74.00  | 73.44 | -9.64   | 10.63 | 36.58  | --- | ---   | Peak   |

Data: 15 File: D:\Project\2007Q2\富士康741220\Part 15\BT Tx\_Ch78.EMI (18) Date: 2007-04-24  
Level (dBuV/m)

Trace: (Discrete)

Site : 03CH06-HY  
Condition : HF-ANT(8-18)-060918 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch78;2480MHz  
Data Rate : DH1  
Case : Open

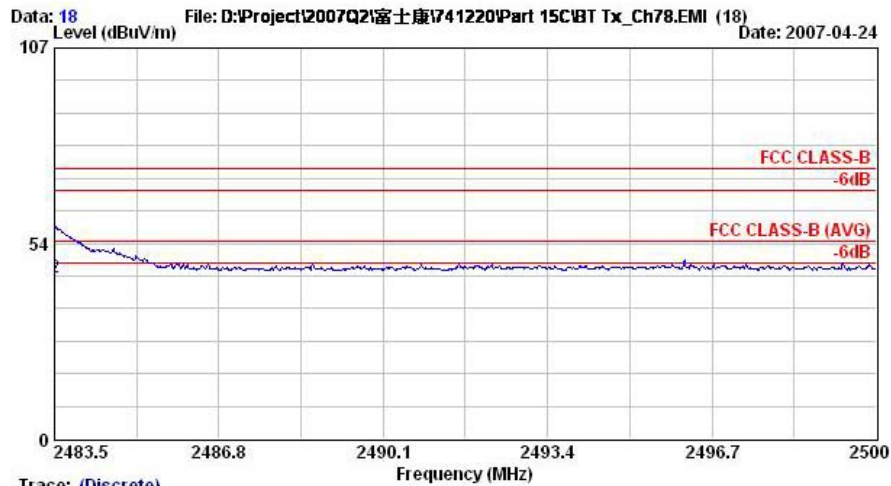
|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |        |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
|   | MHz      | dBuV/m | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   | Remark |
| 1 | 14907.00 | 39.74  | -34.26 | 74.00  | 70.59 | -6.27   | 11.34 | 35.93  | --- | ---   | Peak   |

Data: 16 File: D:\Project\2007Q2\富士康741220\Part 15\BT Tx\_Ch78.EMI (18) Date: 2007-04-24  
Level (dBuV/m)

Trace: (Discrete)

Site : 03CH06-HY  
Condition : HF-ANT(8-18)-060918 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch78;2480MHz  
Data Rate : DH1  
Case : Open

|   | Freq     | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |        |
|---|----------|--------|--------|--------|-------|---------|-------|--------|-----|-------|--------|
|   | MHz      | dBuV/m | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   | Remark |
| 1 | 16047.00 | 42.00  | -32.00 | 74.00  | 70.57 | -4.52   | 11.78 | 35.83  | --- | ---   | Peak   |



Trace: (Discrete)

Site : 03CH06-HY  
Condition : HF-ANT-060410 VERTICAL  
EUT : GSM/GPRS/EDGE Mobile Phone  
Power : 120Vac/60Hz  
Model : FR 741220  
Memo : BT Tx\_Ch78;2480MHz  
Data Rate : DH1  
Case : Open

|     | Freq    | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp | Ant | Table |         |
|-----|---------|--------|--------|--------|-------|---------|-------|--------|-----|-------|---------|
|     | MHz     | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Pos | Pos   | Remark  |
|     |         |        | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     | cm  | deg   |         |
| 1   | 2483.50 | 58.04  | -15.96 | 74.00  | 59.40 | 30.29   | 3.86  | 35.51  | 100 | 0     | Peak    |
| 2 @ | 2483.50 | 44.27  | -9.73  | 54.00  | 45.63 | 30.29   | 3.86  | 35.51  | 100 | 12    | Average |

Remark: There's no more obvious spurious emission except the listings above.



## **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.

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 chip antenna without connector 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.

## 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  | Jul. 04, 2006    | Jul. 04, 2007 | Conduction (CO01-HY)  |
| LISN                      | MessTec            | NNB-2/16Z      | 2001/004   | 9kHz – 30MHz    | Mar. 30, 2007    | Mar. 30, 2008 | Conduction (CO01-HY)  |
| LISN (Support Unit)       | MessTec            | NNB-2/16Z      | 2001/009   | 9kHz – 30MHz    | Mar. 30, 2007    | Mar. 30, 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. 04, 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. 05, 2007 | Radiation (03CH06-HY) |
| EMI Test Receiver         | R&S                | ESCS30         | 100356     | 9KHz-2.75GHz    | Jul. 13, 2006    | Jul. 13, 2007 | Radiation (03CH06-HY) |
| Bilog Antenna             | SCHAFFNER          | CBL6112B       | 2885       | 30MHz -2GHz     | Nov. 20, 2006    | Nov. 20, 2007 | Radiation (03CH06-HY) |
| Double Ridge Horn Antenna | Com-Power          | AH118          | 10094      | 1G~18G          | Dec. 26, 2006    | Dec. 26, 2007 | Radiation (03CH06-HY) |
| SHF-EHF Horn              | SCHWARZBEC K       | BBHA 9170      | 9170-249   | 14G - 40G       | Nov. 20, 2006    | Nov. 20, 2008 | Radiation (03CH06-HY) |
| Pre Amplifier             | Agilent            | 8449B          | 3008A01917 | 1G - 26.5G      | Nov. 15, 2006    | Nov. 15, 2007 | Radiation (03CH06-HY) |
| Pre Amplifier             | Mini Circuits      | ZKL-2          | D092004-1  | 10~2500MHz      | Nov. 15, 2006    | Nov. 15, 2007 | Radiation (03CH06-HY) |
| Base Station Simulator    | R & S              | CMU200         | 106656     | WCDMA           | Nov. 20, 2006    | Nov. 20, 2007 | Radiation (03CH06-HY) |

## 7. Uncertainty Evaluation

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

| Contribution                                                           | Uncertainty of $x_i$ |                          | $u(x_i)$ |
|------------------------------------------------------------------------|----------------------|--------------------------|----------|
|                                                                        | dB                   | Probability Distribution |          |
| 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     |
| <b>combined standard uncertainty Uc(y)</b>                             | <b>1.13</b>          |                          |          |
| <b>Measuring uncertainty for a level of confidence of 95% U=2Uc(y)</b> | <b>2.26</b>          |                          |          |

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

| Contribution                                                           | Uncertainty of $x_i$ |                          | $u(x_i)$ |
|------------------------------------------------------------------------|----------------------|--------------------------|----------|
|                                                                        | dB                   | Probability Distribution |          |
| 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     |
| <b>combined standard uncertainty Uc(y)</b>                             | <b>1.58</b>          |                          |          |
| <b>Measuring uncertainty for a level of confidence of 95% U=2Uc(y)</b> | <b>3.16</b>          |                          |          |

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

| Contribution                                                                                                                                  | Uncertainty of $x_i$ |                          | $u(x_i)$ | $C_i$ | $C_i * u(x_i)$ |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|----------|-------|----------------|
|                                                                                                                                               | dB                   | Probability Distribution |          |       |                |
| 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<br>Receiver VSWR $\Gamma_1 = 0.197$<br>Antenna VSWR $\Gamma_2 = 0.194$<br>Uncertainty = $20\log(1 - \Gamma_1 * \Gamma_2 * \Gamma_3)$ | +0.34/-0.35          | U-shaped                 | 0.244    | 1     | 0.244          |
| <b>Combined standard uncertainty <math>U_c(y)</math></b>                                                                                      | <b>2.36</b>          |                          |          |       |                |
| <b>Measuring uncertainty for a level of confidence of 95% <math>U = 2U_c(y)</math></b>                                                        | <b>4.72</b>          |                          |          |       |                |