

Site : site
Condition : 3m HORN-ANT-6741 VERTICAL
EUT : Wireless 2.4G AP
Power : 110V/60Hz
MODEL : ME-103
MEMO : TX CH06 2437MHz
: 1.5m+5dBi Ceiling

➤ For 5GHz ~ 25GHz

Remark: Frequency from 5000MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

| Frequency (MHz) | Antenna Polarity | Cable Factor | Reading Loss | Limits (dBuV) | Emission (dBuV/m) | Level (uV/m) | Margin (dB) | Detect Mode | | |
|----------------------|---------------------|-----------------|-----------------|--------------------|------------------------|-------------------|------------------|----------------|--------|---------------|
| 2438.000 | H | 28.30 | 6.26 | 64.00 | - | - | 98.56 | 84722.74 | Peak | |
| 2438.000 | H | 28.30 | 6.26 | 57.52 | - | - | 92.08 | 40179.08 | A.V. | |
| 4876.000 | H | 33.17 | 9.06 | 16.28 | 74.00 | 5011.87 | 58.51 | 842.36 | -15.49 | Peak |
| 4876.000 | H | 33.17 | 9.09 | 11.00 | 54.00 | 501.19 | 53.26 | 460.26 | -0.74 | A.V. |
| 2436.000 | V | 28.29 | 6.26 | 71.30 | - | - | 105.85 | 196110.12 | | Peak |
| 2436.000 | V | 28.29 | 6.26 | 65.83 | - | - | 100.38 | 104472.02 | | A.V. |
| 4876.000 | V | 33.17 | 9.09 | 16.39 | 74.00 | 5011.87 | 58.65 | 856.05 | -15.35 | Peak |
| 4876.000 | V | 33.17 | 9.09 | 8.37 | 54.00 | 501.19 | 50.63 | 340.02 | -3.37 | A.V. |
| 7311.000 | V/H | | | | | | - | | | Peak, A.V. |
| 9748.000 | V/H | | | | | | - | | | Peak, A.V. |
| 12185.000 | V/H | | | | | | - | | | Peak, A.V. |
| 14622.000 | V/H | | | | | | - | | | Peak, A.V. |
| 17059.000 | V/H | | | | | | - | | | Peak, A.V. |
| 19496.000 | V/H | | | | | | - | | | Peak, A.V. |
| 21933.000 | V/H | | | | | | - | | | Peak, A.V. |
| 24370.000 | V/H | | | | | | - | | | Peak, A.V. |

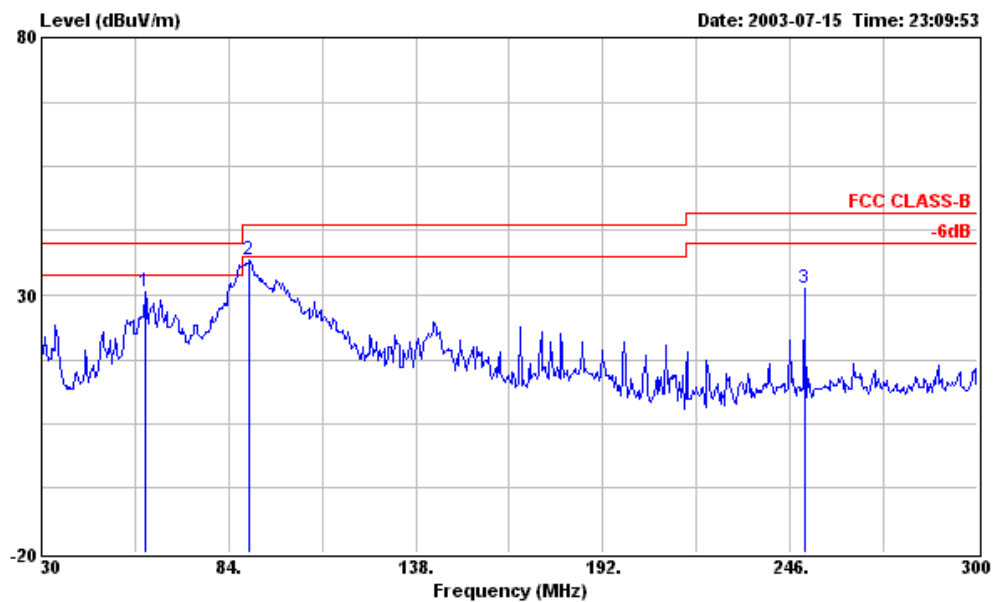
Remark: The emission emitted by the EUT is too low to be measured except the emission listed above

Test Engineer: Jay
Jay Zhong

- Test Mode: Mode 6
- Test Distance: 3 M
- Temperature: 29.9 °C
- Relative Humidity: 72 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

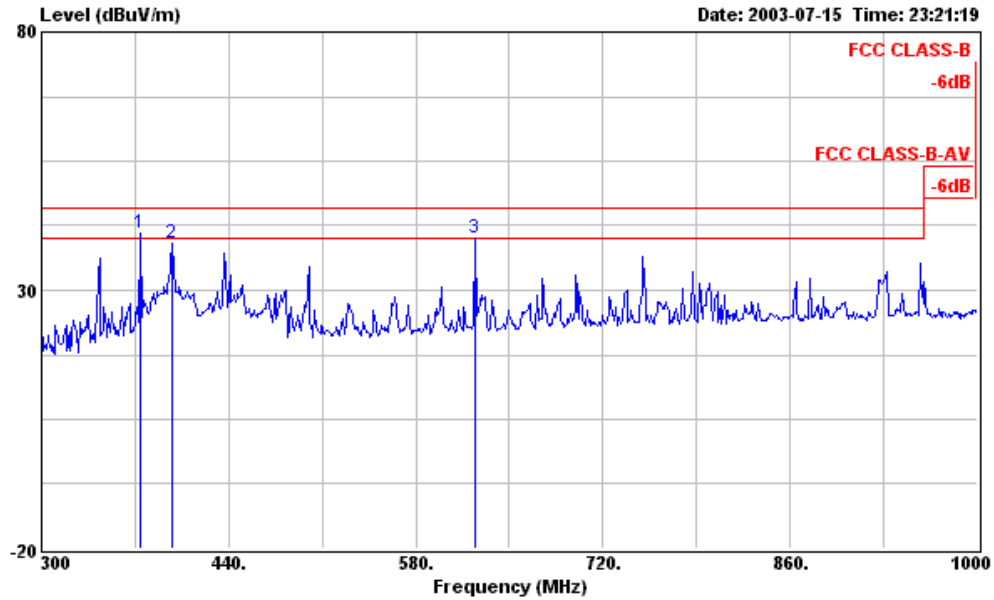
■ The test was passed at the minimum margin that marked by the frame in the following test record

- Spurious Emission



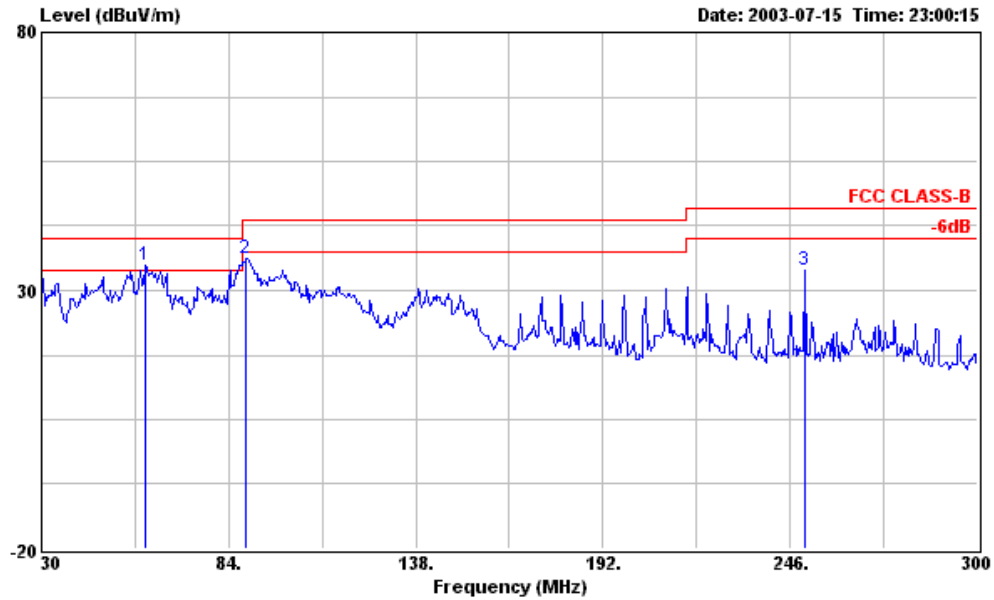
Site : site
 Condition : 3m 03CH03-MAT HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+5dBi Ceiling

| Peak | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Preamp Factor | Remark | Ant Pos | Table Pos |
|------|---------|--------|------------|------------|------------|--------------|------------|---------------|--------|---------|-----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 59.970 | 30.54 | -9.46 | 40.00 | 50.88 | 5.16 | 1.58 | 27.08 | Peak | --- | --- |
| 2 | 89.940 | 36.72 | -6.78 | 43.50 | 53.53 | 8.78 | 1.43 | 27.02 | Peak | --- | --- |
| 3 | 250.050 | 31.20 | -14.80 | 46.00 | 43.85 | 11.34 | 2.61 | 26.60 | Peak | --- | --- |



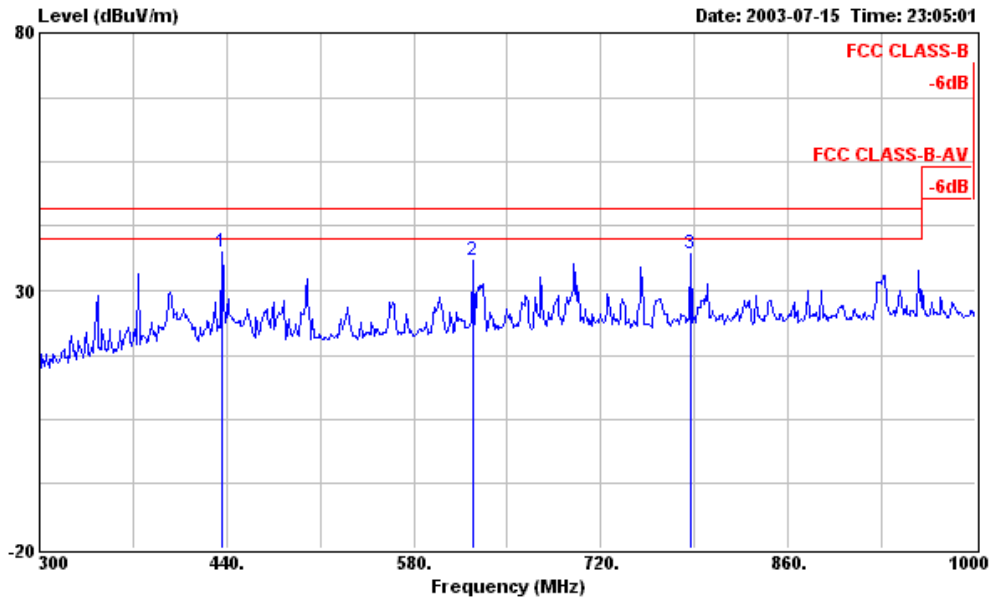
Site : site
 Condition : 3m 03CH03-MAT HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+5dBi Ceiling

| Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table | |
|------|---------|-------|--------|-------|--------|-------|--------|--------|------|-------|-----|
| | | Limit | Line | Level | Factor | Loss | Factor | | Pos | Pos | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg | |
| 1 ! | 374.200 | 40.98 | -5.02 | 46.00 | 50.70 | 13.82 | 3.50 | 27.04 | Peak | --- | --- |
| 2 | 397.300 | 38.98 | -7.02 | 46.00 | 48.11 | 14.54 | 3.51 | 27.18 | Peak | --- | --- |
| 3 | 624.100 | 39.96 | -6.04 | 46.00 | 46.08 | 17.46 | 4.42 | 28.00 | Peak | --- | --- |



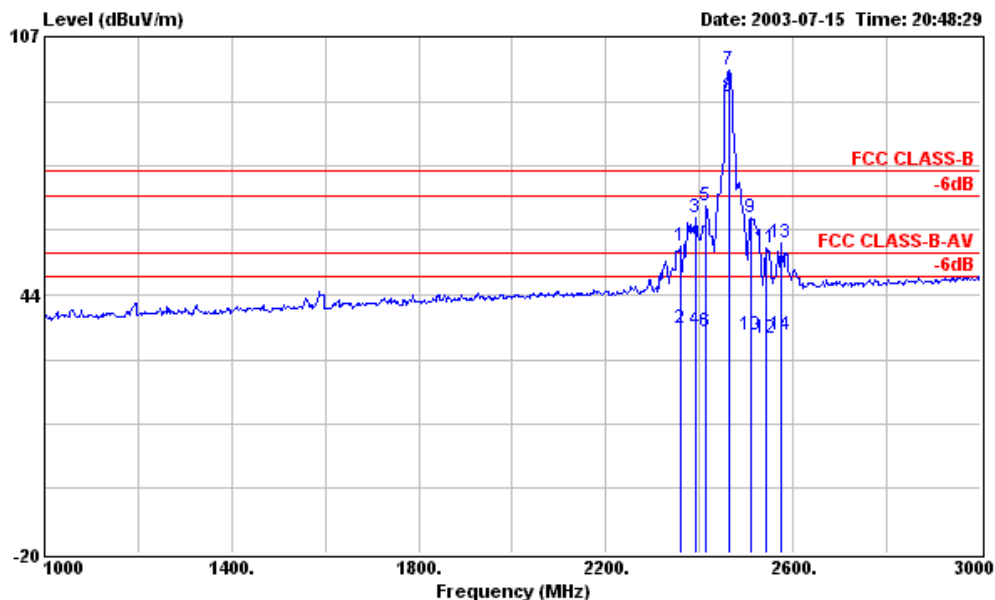
Site : site
 Condition : 3m 03CH03-MAT VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+5dBi Ceiling

| | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Preamp Factor | Remark | Ant Pos | Table Pos |
|-----|---------|--------|------------|------------|------------|--------------|------------|---------------|--------|---------|-----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 ! | 59.970 | 35.03 | -4.97 | 40.00 | 55.37 | 5.16 | 1.58 | 27.08 | Peak | --- | --- |
| 2 | 89.130 | 36.17 | -7.33 | 43.50 | 53.01 | 8.74 | 1.44 | 27.02 | Peak | --- | --- |
| 3 | 250.050 | 33.75 | -12.25 | 46.00 | 46.40 | 11.34 | 2.61 | 26.60 | Peak | --- | --- |



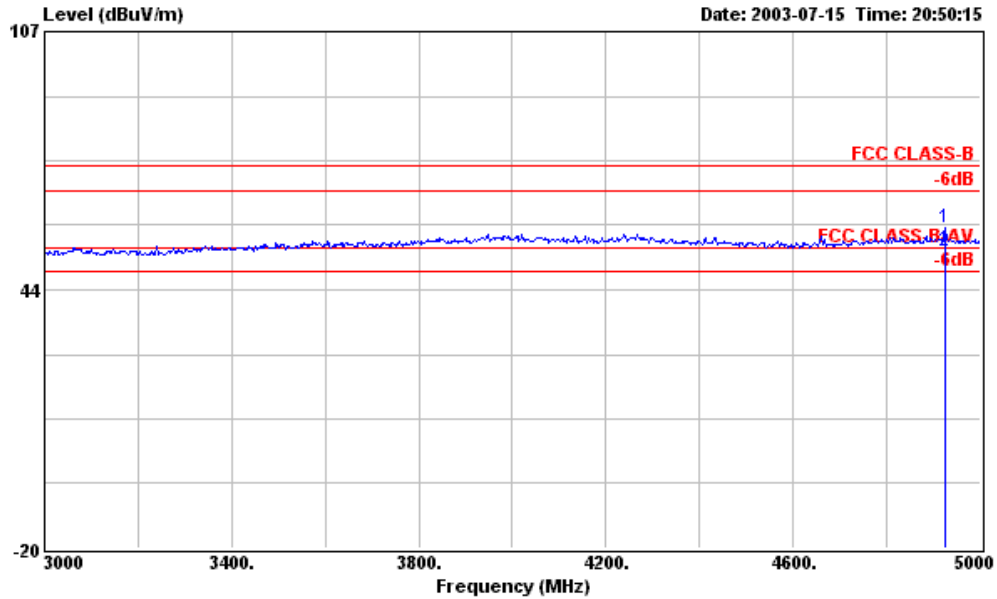
Site : site
 Condition : 3m 03CH03-MAT VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+5dBi Ceiling

| Freq | Level | Limit | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|------|---------|-------|--------|-------|-------|-------|--------|------------|-----|-------|
| | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 436.500 | 37.32 | -8.68 | 46.00 | 46.02 | 15.14 | 3.54 | 27.38 Peak | --- | --- |
| 2 | 624.100 | 35.82 | -10.18 | 46.00 | 41.94 | 17.46 | 4.42 | 28.00 Peak | --- | --- |
| 3 | 786.500 | 37.13 | -8.87 | 46.00 | 41.42 | 18.68 | 5.03 | 28.00 Peak | --- | --- |

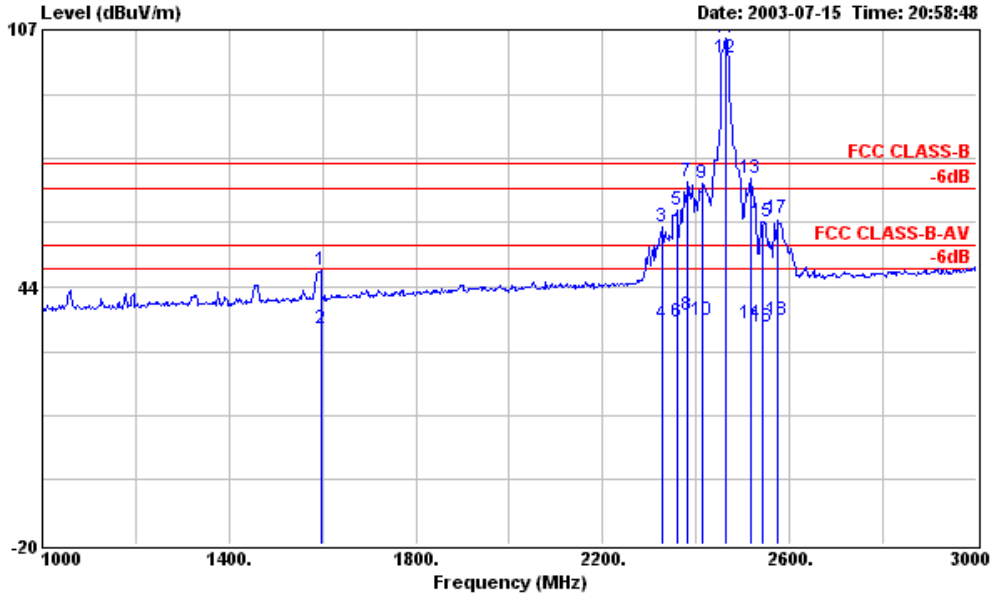


Site : site
 Condition : 3m HORN-ANT-6741 HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110W/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+5dBi Ceiling

| | Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|----|----------|--------|--------|--------|-------|--------|-------|--------|---------|-----|-------|
| | MHz | dBuV/m | Limit | Line | Level | Factor | Loss | Factor | | Pos | Pos |
| | | | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 2358.000 | 55.57 | -18.43 | 74.00 | 48.44 | 28.14 | 6.15 | 27.16 | Peak | --- | --- |
| 2 | 2358.000 | 35.16 | -18.84 | 54.00 | 28.03 | 28.14 | 6.15 | 27.16 | Average | --- | --- |
| 3 | 2390.000 | 62.30 | -11.70 | 74.00 | 55.06 | 28.20 | 6.20 | 27.16 | Peak | --- | --- |
| 4 | 2390.000 | 34.75 | -19.25 | 54.00 | 27.51 | 28.20 | 6.20 | 27.16 | Average | --- | --- |
| 5 | 2414.000 | 65.19 | -8.81 | 74.00 | 57.87 | 28.25 | 6.23 | 27.16 | Peak | --- | --- |
| 6 | 2414.000 | 34.38 | -19.62 | 54.00 | 27.06 | 28.25 | 6.23 | 27.16 | Average | --- | --- |
| 9 | 2510.000 | 62.43 | -11.57 | 74.00 | 54.78 | 28.47 | 6.36 | 27.18 | Peak | --- | --- |
| 10 | 2510.000 | 33.69 | -20.31 | 54.00 | 26.04 | 28.47 | 6.36 | 27.18 | Average | --- | --- |
| 11 | 2542.000 | 54.92 | -19.08 | 74.00 | 47.11 | 28.57 | 6.42 | 27.18 | Peak | --- | --- |
| 12 | 2542.000 | 32.84 | -21.16 | 54.00 | 25.03 | 28.57 | 6.42 | 27.18 | Average | --- | --- |
| 13 | 2574.000 | 56.24 | -17.76 | 74.00 | 48.29 | 28.67 | 6.47 | 27.19 | Peak | --- | --- |
| 14 | 2574.000 | 33.78 | -20.22 | 54.00 | 25.83 | 28.67 | 6.47 | 27.19 | Average | --- | --- |

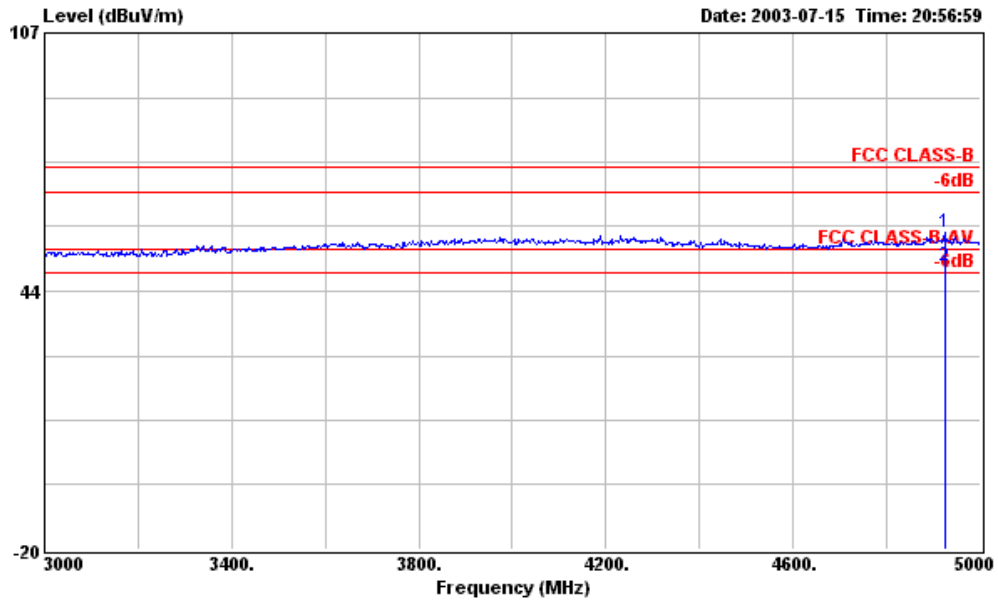


Site : site
Condition : 3m HORN-ANT-6741 HORIZONTAL
EUT : Wireless 2.4G AP
Power : 110V/60Hz
MODEL : ME-103
MEMO : TX CH11 2462MHz
: 1.5m+5dBi Ceiling



Site : site
 Condition : 3m HORN-ANT-6741 VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+5dBi Ceiling

| | Over | Limit | Read | Probe | Cable | Preamp | | Ant | Table | | |
|------|----------|-------|--------|-------|--------|--------|--------|-------|---------|-----|-----|
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | cm | deg | | |
| 1 | 1596.000 | 47.42 | -26.58 | 74.00 | 43.83 | 25.75 | 4.89 | 27.05 | Peak | --- | --- |
| 2 | 1596.000 | 33.04 | -20.96 | 54.00 | 29.45 | 25.75 | 4.89 | 27.05 | Average | --- | --- |
| 3 | 2326.000 | 58.55 | -15.45 | 74.00 | 51.52 | 28.07 | 6.11 | 27.15 | Peak | --- | --- |
| 4 | 2326.000 | 34.61 | -19.39 | 54.00 | 27.58 | 28.07 | 6.11 | 27.15 | Average | --- | --- |
| 5 | 2358.000 | 62.39 | -11.61 | 74.00 | 55.26 | 28.14 | 6.15 | 27.16 | Peak | --- | --- |
| 6 | 2358.000 | 34.85 | -19.15 | 54.00 | 27.72 | 28.14 | 6.15 | 27.16 | Average | --- | --- |
| 7 ! | 2382.000 | 69.34 | -4.66 | 74.00 | 62.14 | 28.18 | 6.18 | 27.16 | Peak | 100 | 28 |
| 8 | 2382.000 | 36.48 | -17.52 | 54.00 | 29.28 | 28.18 | 6.18 | 27.16 | Average | --- | --- |
| 9 ! | 2414.000 | 69.07 | -4.93 | 74.00 | 61.75 | 28.25 | 6.23 | 27.16 | Peak | --- | --- |
| 10 | 2414.000 | 35.27 | -18.73 | 54.00 | 27.95 | 28.25 | 6.23 | 27.16 | Average | --- | --- |
| 13 ! | 2516.000 | 70.10 | -3.90 | 74.00 | 62.42 | 28.49 | 6.37 | 27.18 | Peak | --- | --- |
| 14 | 2516.000 | 34.62 | -19.38 | 54.00 | 26.94 | 28.49 | 6.37 | 27.18 | Average | --- | --- |
| 15 | 2542.000 | 59.64 | -14.36 | 74.00 | 51.83 | 28.57 | 6.42 | 27.18 | Peak | --- | --- |
| 16 | 2542.000 | 33.80 | -20.20 | 54.00 | 25.99 | 28.57 | 6.42 | 27.18 | Average | --- | --- |
| 17 | 2574.000 | 60.20 | -13.80 | 74.00 | 52.25 | 28.67 | 6.47 | 27.19 | Peak | --- | --- |
| 18 | 2574.000 | 35.06 | -18.94 | 54.00 | 27.11 | 28.67 | 6.47 | 27.19 | Average | --- | --- |



Site : site
Condition : 3m HORN-ANT-6741 VERTICAL
EUT : Wireless 2.4G AP
Power : 110V/60Hz
MODEL : ME-103
MEMO : TX CH11 2462MHz
: 1.5m+5dBi Ceiling

➤ For 5GHz ~ 25GHz

Remark: Frequency from 5000MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

| Frequency (MHz) | Antenna Polarity | Cable Factor | Reading Loss | Limits | Emission | Level | Margin | Detect | | |
|----------------------|---------------------|-----------------|-----------------|----------|------------|----------|--------|-----------|--------|---------------|
| (dB/m) | (dB) | (dBuV) | (dBuV/m) | (uV/m) | (dBuV/m) | (uV/m) | (dB) | Mode | | |
| 2462.000 | H | 28.35 | 6.29 | 64.25 | - | - | 98.89 | 88003.51 | Peak | |
| 2462.000 | H | 28.35 | 6.29 | 57.49 | - | - | 92.13 | 40411.04 | A.V. | |
| 4924.000 | H | 33.27 | 9.12 | 16.24 | 74.00 | 5011.87 | 58.63 | 854.08 | -15.37 | Peak |
| 4924.000 | H | 33.27 | 9.12 | 10.75 | 54.00 | 501.19 | 53.14 | 453.94 | -0.86 | A.V. |
| 2462.000 | V | 28.35 | 6.29 | 70.50 | - | - | 105.14 | 180717.41 | | Peak |
| 2462.000 | V | 28.35 | 6.29 | 65.53 | - | - | 100.17 | 101976.48 | | A.V. |
| 4924.000 | V | 33.27 | 9.12 | 15.64 | 74.00 | 5011.87 | 58.03 | 797.08 | -15.97 | Peak |
| 4924.000 | V | 33.27 | 9.12 | 7.48 | 54.00 | 501.19 | 49.87 | 311.53 | -4.13 | A.V. |
| 7386.000 | V/H | | | | | | - | | | Peak, A.V. |
| 9848.000 | V/H | | | | | | - | | | Peak, A.V. |
| 12310.000 | V/H | | | | | | - | | | Peak, A.V. |
| 14772.000 | V/H | | | | | | - | | | Peak, A.V. |
| 17234.000 | V/H | | | | | | - | | | Peak, A.V. |
| 19696.000 | V/H | | | | | | - | | | Peak, A.V. |
| 22158.000 | V/H | | | | | | - | | | Peak, A.V. |
| 24620.000 | V/H | | | | | | - | | | Peak, A.V. |

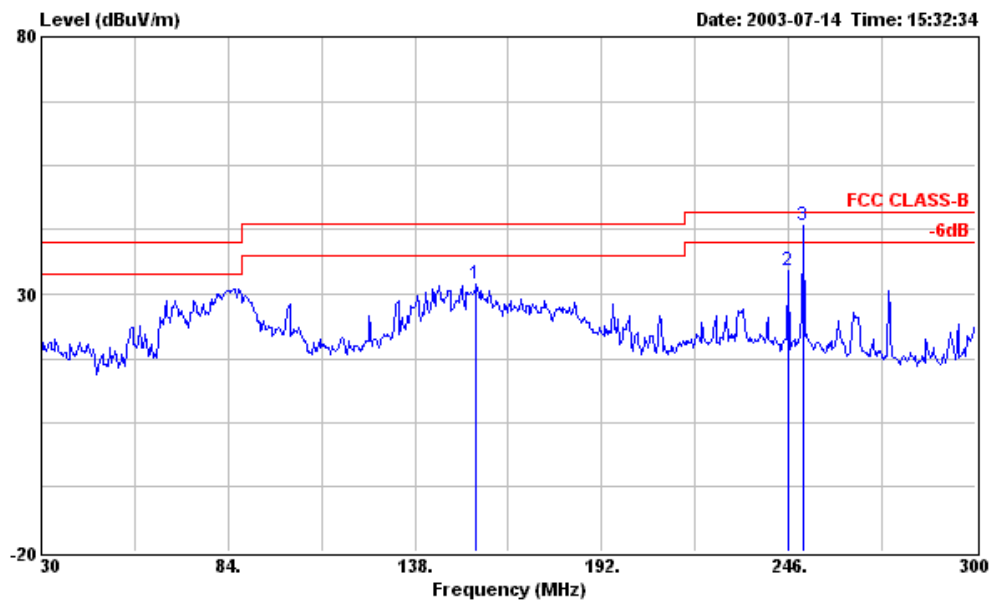
Remark: The emission emitted by the EUT is too low to be measured except the emission listed above

Test Engineer: Jay
Jay Zhong

- Test Mode: Mode 7
- Test Distance: 3 M
- Temperature: 29.9 °C
- Relative Humidity: 72 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

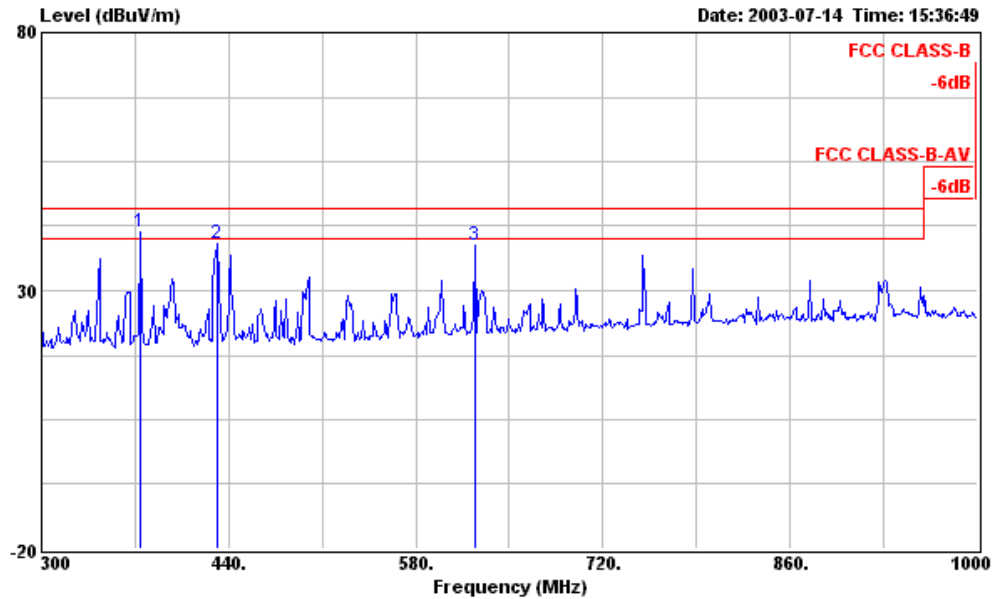
■ The test was passed at the minimum margin that marked under gray area in the following table, and its antenna height is 1 m, turn table degree is 74°

■ Spurious Emission



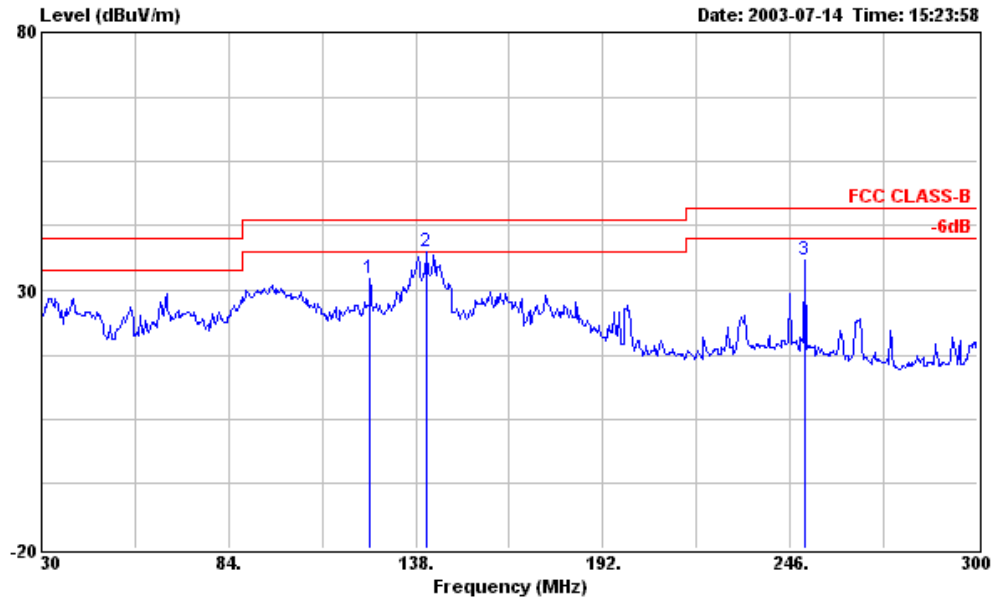
Site : site
 Condition : 3m 03CH03-MAT HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH01 2412MHz
 : 1.5m+9dBi Dipole

| Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|------|---------|-------|--------|-------|-------|-------|--------|------------|-----|-------|
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 155.820 | 31.84 | -11.66 | 43.50 | 47.88 | 8.62 | 2.11 | 26.77 Peak | --- | --- |
| 2 | 245.730 | 34.49 | -11.51 | 46.00 | 47.35 | 11.16 | 2.58 | 26.60 Peak | --- | --- |
| 3 ! | 250.050 | 43.27 | -2.73 | 46.00 | 55.92 | 11.34 | 2.61 | 26.60 Peak | 100 | 55 |



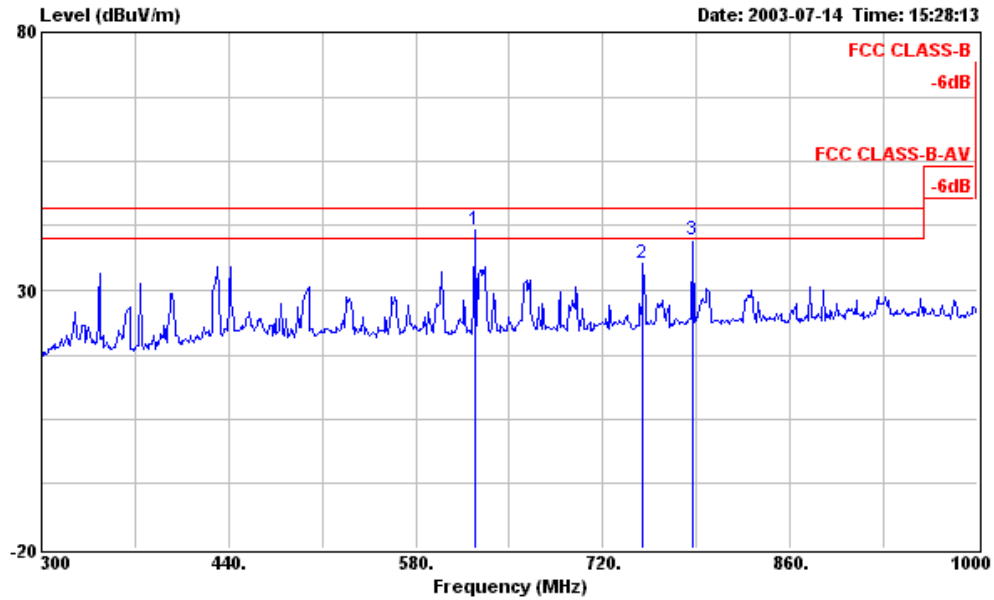
Site : site
 Condition : 3m 03CH03-MAT HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH01 2412MHz
 : 1.5m+9dBi Dipole

| Peak | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Preamp Factor | Remark | Ant Pos | Table Pos |
|------|---------|--------|------------|------------|------------|--------------|------------|---------------|--------|---------|-----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 ! | 374.200 | 41.48 | -4.52 | 46.00 | 51.20 | 13.82 | 3.50 | 27.04 | Peak | --- | --- |
| 2 | 430.900 | 39.13 | -6.87 | 46.00 | 47.87 | 15.07 | 3.54 | 27.35 | Peak | --- | --- |
| 3 | 624.100 | 38.77 | -7.23 | 46.00 | 44.89 | 17.46 | 4.42 | 28.00 | Peak | --- | --- |



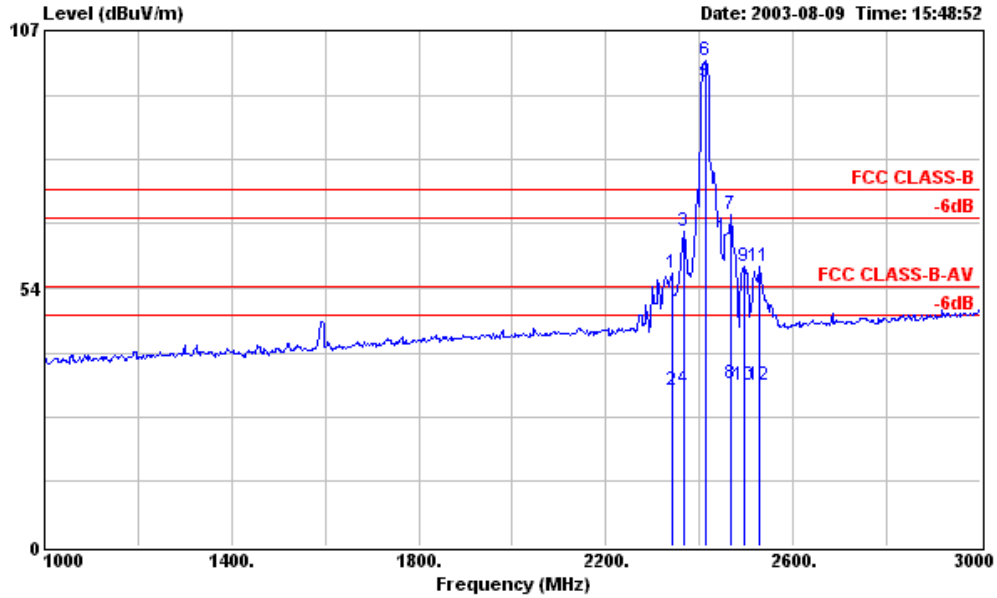
Site : site
 Condition : 3m 03CH03-MAT VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH01 2412MHz
 : 1.5m+9dBi Dipole

| | Over | Limit | Read | Probe | Cable | Preamp | Ant | Table | | | |
|------|---------|-------|--------|-------|--------|--------|--------|--------|------|-----|-----|
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg | |
| 1 | 124.770 | 32.17 | -11.33 | 43.50 | 46.96 | 10.25 | 1.86 | 26.90 | Peak | --- | --- |
| 2 ! | 140.970 | 37.51 | -5.99 | 43.50 | 52.10 | 10.18 | 2.07 | 26.84 | Peak | --- | --- |
| 3 | 250.050 | 35.73 | -10.27 | 46.00 | 48.38 | 11.34 | 2.61 | 26.60 | Peak | --- | --- |



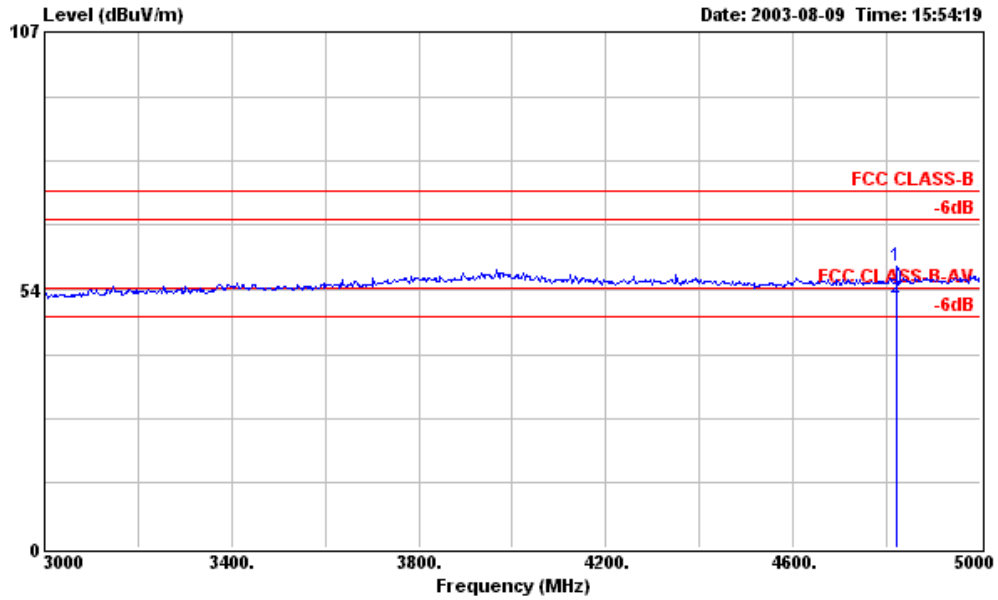
Site : site
 Condition : 3m 03CH03-MAT VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH01 2412MHz
 : 1.5m+9dBi Dipole

| | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Preamp Factor | Remark | Ant Pos | Table Pos |
|-----|---------|--------|------------|------------|------------|--------------|------------|---------------|--------|---------|-----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 ! | 624.100 | 41.74 | -4.26 | 46.00 | 47.86 | 17.46 | 4.42 | 28.00 | Peak | --- | --- |
| 2 | 750.100 | 35.17 | -10.83 | 46.00 | 39.82 | 18.40 | 4.95 | 28.00 | Peak | --- | --- |
| 3 | 786.500 | 39.58 | -6.42 | 46.00 | 43.87 | 18.68 | 5.03 | 28.00 | Peak | --- | --- |

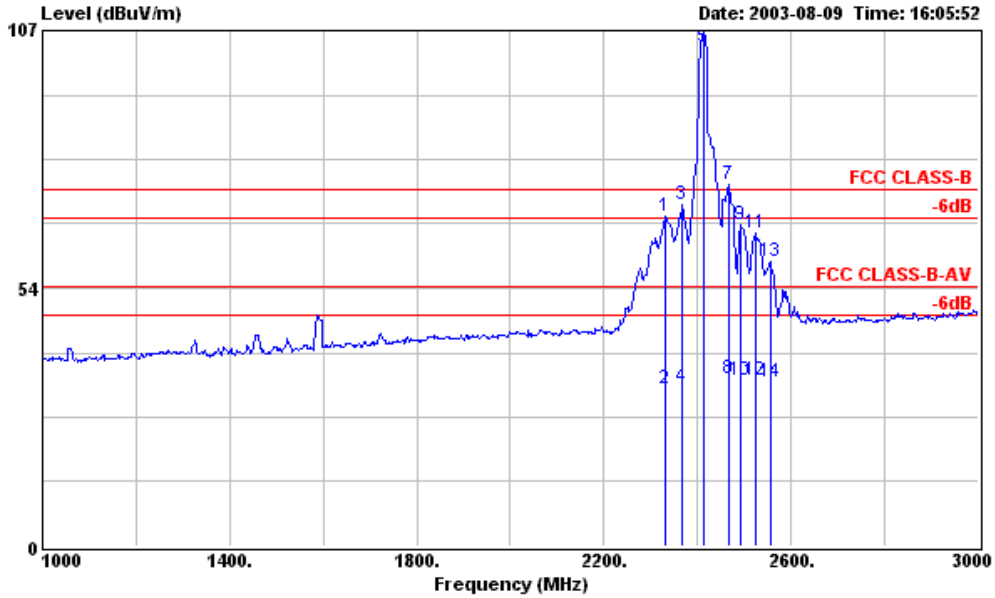


Site : 03CH03-HY
 Condition : 3m HORN-ANT-6741 HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH01 2412MHz
 : 1.5m+9dBi Dipole

| Peak | Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|------|----------|--------|--------|--------|-------|-------|-------|--------|---------|-----|-------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 2340.000 | 56.51 | -17.49 | 74.00 | 49.43 | 28.10 | 6.13 | 27.15 | Peak | --- | --- |
| 2 | 2340.000 | 32.14 | -21.86 | 54.00 | 25.06 | 28.10 | 6.13 | 27.15 | Average | --- | --- |
| 3 | 2366.000 | 65.18 | -8.82 | 74.00 | 58.03 | 28.15 | 6.16 | 27.16 | Peak | --- | --- |
| 4 | 2366.000 | 32.65 | -21.35 | 54.00 | 25.50 | 28.15 | 6.16 | 27.16 | Average | --- | --- |
| 7 ! | 2468.000 | 68.90 | -5.10 | 74.00 | 61.41 | 28.36 | 6.30 | 27.17 | Peak | --- | --- |
| 8 | 2468.000 | 33.81 | -20.19 | 54.00 | 26.32 | 28.36 | 6.30 | 27.17 | Average | --- | --- |
| 9 | 2494.000 | 57.94 | -16.06 | 74.00 | 50.37 | 28.42 | 6.33 | 27.18 | Peak | --- | --- |
| 10 | 2494.000 | 33.52 | -20.48 | 54.00 | 25.95 | 28.42 | 6.33 | 27.18 | Average | --- | --- |
| 11 | 2526.000 | 58.00 | -16.00 | 74.00 | 50.27 | 28.52 | 6.39 | 27.18 | Peak | --- | --- |
| 12 | 2526.000 | 33.28 | -20.72 | 54.00 | 25.55 | 28.52 | 6.39 | 27.18 | Average | --- | --- |

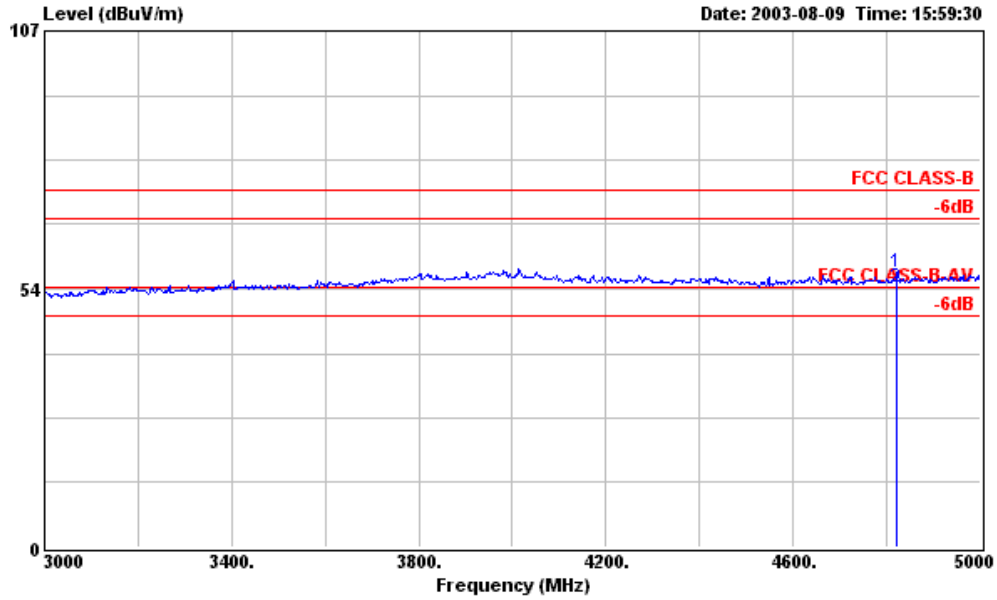


Site : 03CH03-HY
Condition : 3m HORN-ANT-6741 HORIZONTAL
EUT : Wireless 2.4G AP
Power : 110W/60Hz
MODEL : ME-103
MEMO : TX CH01 2412MHz
: 1.5m+9dBi Dipole



Site : 03CH03-HY
 Condition : 3m HORN-ANT-6741 VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH01 2412MHz
 : 1.5m+9dBi Dipole

| | Over | Limit | Read | Probe | Cable | Preamp | Ant | Table | | | |
|------|----------|-------|--------|-------|--------|--------|--------|--------|---------|-----|-----|
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg | |
| 1 ! | 2332.000 | 68.54 | -5.46 | 74.00 | 61.49 | 28.08 | 6.12 | 27.15 | Peak | --- | --- |
| 2 | 2332.000 | 32.58 | -21.42 | 54.00 | 25.53 | 28.08 | 6.12 | 27.15 | Average | --- | --- |
| 3 ! | 2366.000 | 70.74 | -3.26 | 74.00 | 63.59 | 28.15 | 6.16 | 27.16 | Peak | --- | --- |
| 4 | 2366.000 | 32.83 | -21.17 | 54.00 | 25.68 | 28.15 | 6.16 | 27.16 | Average | --- | --- |
| 7 X | 2468.000 | 74.90 | 0.90 | 74.00 | 67.41 | 28.36 | 6.30 | 27.17 | Peak | --- | --- |
| 8 | 2468.000 | 34.71 | -19.29 | 54.00 | 27.22 | 28.36 | 6.30 | 27.17 | Average | --- | --- |
| 9 | 2492.000 | 66.65 | -7.35 | 74.00 | 59.09 | 28.41 | 6.33 | 27.18 | Peak | --- | --- |
| 10 | 2492.000 | 34.56 | -19.44 | 54.00 | 27.00 | 28.41 | 6.33 | 27.18 | Average | --- | --- |
| 11 | 2524.000 | 64.80 | -9.20 | 74.00 | 57.08 | 28.51 | 6.39 | 27.18 | Peak | --- | --- |
| 12 | 2524.000 | 34.35 | -19.65 | 54.00 | 26.63 | 28.51 | 6.39 | 27.18 | Average | --- | --- |
| 13 | 2556.000 | 58.97 | -15.03 | 74.00 | 51.10 | 28.61 | 6.44 | 27.18 | Peak | --- | --- |
| 14 | 2556.000 | 34.21 | -19.79 | 54.00 | 26.34 | 28.61 | 6.44 | 27.18 | Average | --- | --- |



Site : 03CH03-HY
Condition : 3m HORN-ANT-6741 VERTICAL
EUT : Wireless 2.4G AP
Power : 110W/60Hz
MODEL : ME-103
MEMO : TX CH01 2412MHz
: 1.5m+9dBi Dipole

➤ For 5GHz ~ 25GHz

Remark: Frequency from 5000MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

| Frequency (MHz) | Antenna Polarity | Cable Factor | Reading Loss | Limits (dBuV) | Limits (dBuV/m) | Emission (uV/m) | Level (dBuV/m) | Level (uV/m) | Margin (dB) | Detect Mode |
|----------------------|---------------------|-----------------|-----------------|--------------------|----------------------|----------------------|---------------------|-------------------|------------------|----------------|
| 2412.000 | H | 28.24 | 6.22 | 61.63 | - | - | 96.09 | 63752.91 | | A.V. |
| 2412.000 | H | 28.24 | 6.22 | 66.28 | - | - | 100.74 | 108893.01 | | Peak |
| 4822.000 | H | 33.06 | 9.06 | 16.11 | 74.00 | 5011.87 | 58.23 | 815.64 | -15.77 | Peak |
| 4822.000 | H | 33.06 | 9.06 | 9.76 | 54.00 | 501.19 | 51.88 | 392.64 | -2.12 | A.V. |
| 2412.000 | V | 28.24 | 6.22 | 69.01 | - | - | 103.47 | 149107.68 | | A.V. |
| 2412.000 | V | 28.24 | 6.22 | 72.05 | - | - | 106.51 | 211592.37 | | Peak |
| 4822.000 | V | 33.06 | 9.06 | 14.99 | 74.00 | 5011.87 | 57.11 | 716.97 | -16.89 | Peak |
| 4822.000 | V | 33.06 | 9.06 | 11.58 | 54.00 | 501.19 | 53.70 | 484.17 | -0.30 | A.V. |
| 7236.000 | V/H | | | | | | - | | | Peak, A.V. |
| 9648.000 | V/H | | | | | | - | | | Peak, A.V. |
| 12060.000 | V/H | | | | | | - | | | Peak, A.V. |
| 14472.000 | V/H | | | | | | - | | | Peak, A.V. |
| 16884.000 | V/H | | | | | | - | | | Peak, A.V. |
| 19296.000 | V/H | | | | | | - | | | Peak, A.V. |
| 21708.000 | V/H | | | | | | - | | | Peak, A.V. |
| 24120.000 | V/H | | | | | | - | | | Peak, A.V. |

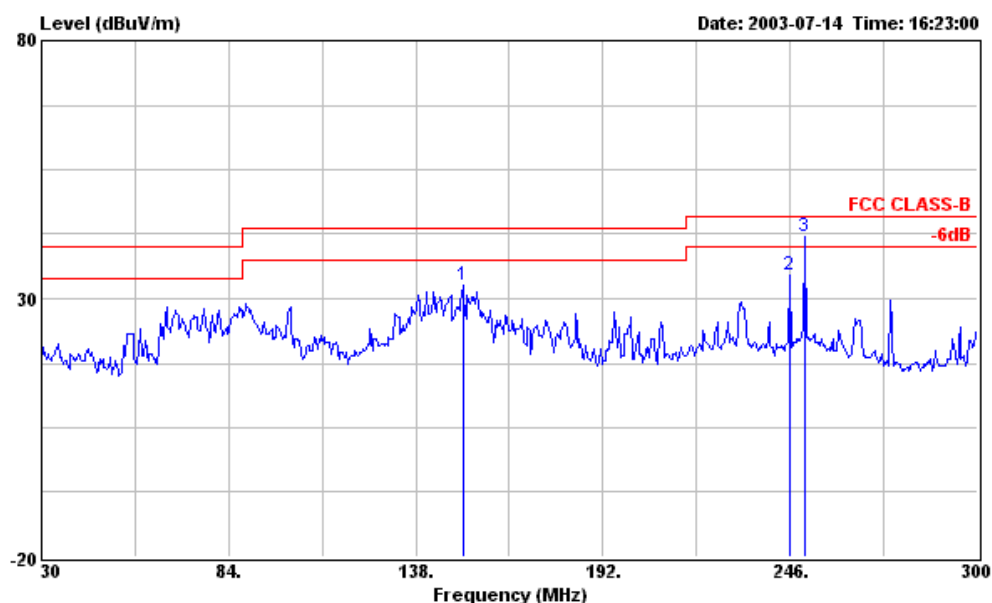
Remark: The emission emitted by the EUT is too low to be measured except the emission listed above

Test Engineer: Jay
Jay Zhong

- Test Mode: Mode 8
- Test Distance: 3 M
- Temperature: 29.9 °C
- Relative Humidity: 72 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

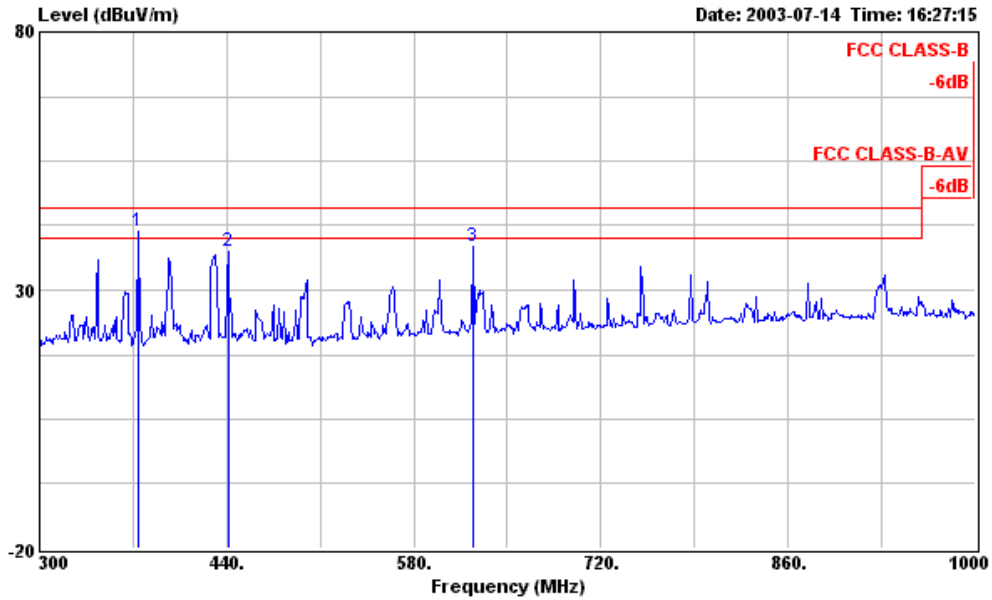
■ The test was passed at the minimum margin that marked under gray area in the following table, and its antenna height is 1 m, turn table degree is 74°

■ Spurious Emission



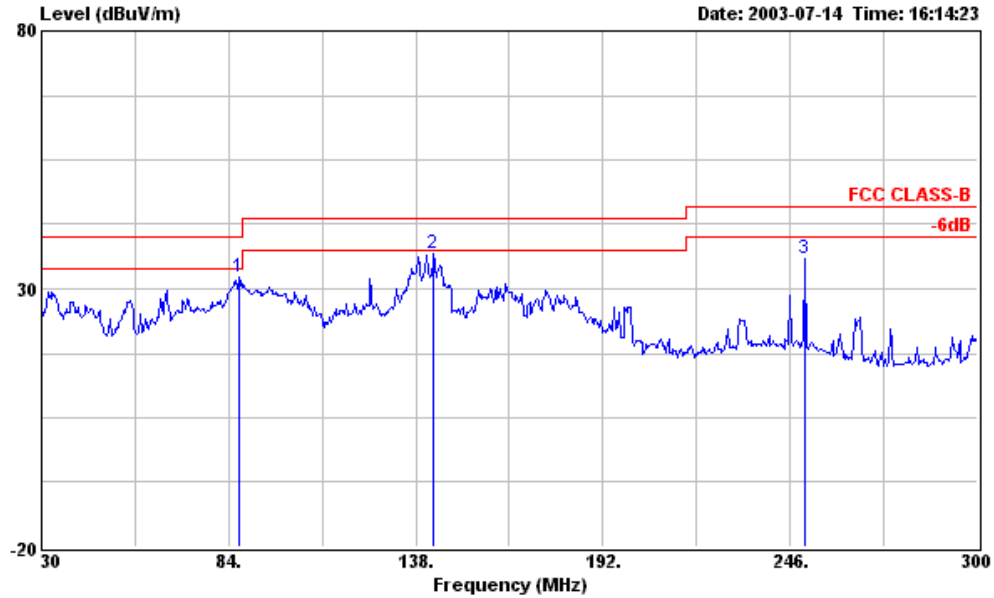
Site : site
 Condition : 3m 03CH03-MAT HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH06 2437MHz
 : 1.5m+9dBi Dipole

| | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Preamp Factor | Remark | Ant Pos | Table Pos |
|-----|---------|--------|------------|------------|------------|--------------|------------|---------------|--------|---------|-----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 151.500 | 32.60 | -10.90 | 43.50 | 48.07 | 9.22 | 2.10 | 26.79 | Peak | --- | --- |
| 2 | 245.730 | 34.60 | -11.40 | 46.00 | 47.46 | 11.16 | 2.58 | 26.60 | Peak | --- | --- |
| 3 ! | 250.050 | 42.12 | -3.88 | 46.00 | 54.77 | 11.34 | 2.61 | 26.60 | Peak | --- | --- |



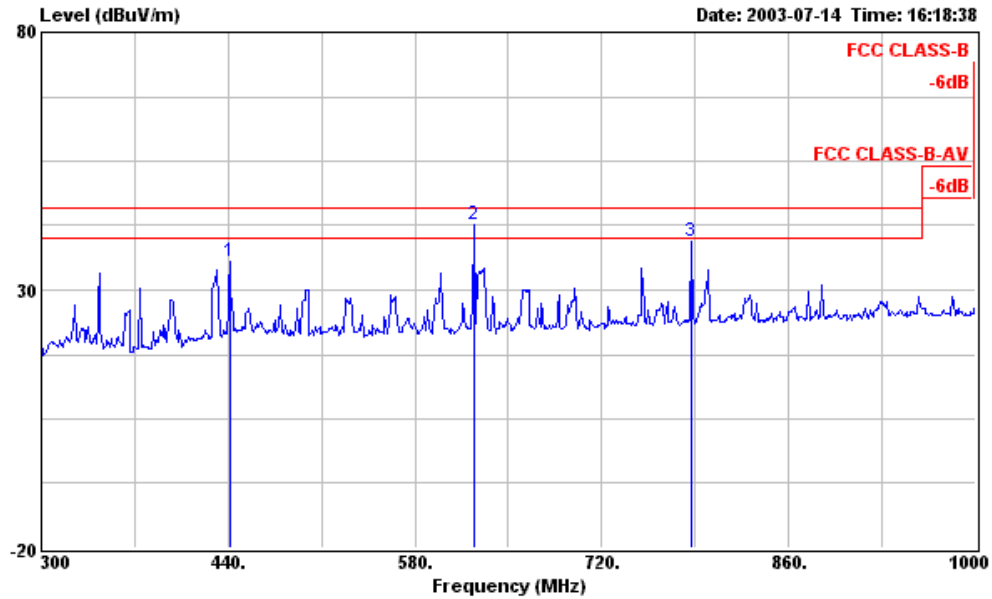
Site : site
 Condition : 3m 03CH03-MAT HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110W/60Hz
 MODEL : ME-103
 MEMO : TX CH06 2437MHz
 : 1.5m+9dBi Dipole

| | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Preamp Factor | Remark | Ant Pos | Table Pos |
|-----|---------|--------|------------|------------|------------|--------------|------------|---------------|--------|---------|-----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 ! | 374.200 | 41.27 | -4.73 | 46.00 | 50.99 | 13.82 | 3.50 | 27.04 | Peak | --- | --- |
| 2 | 441.400 | 37.56 | -8.44 | 46.00 | 46.22 | 15.21 | 3.54 | 27.41 | Peak | --- | --- |
| 3 | 624.100 | 38.39 | -7.61 | 46.00 | 44.51 | 17.46 | 4.42 | 28.00 | Peak | --- | --- |



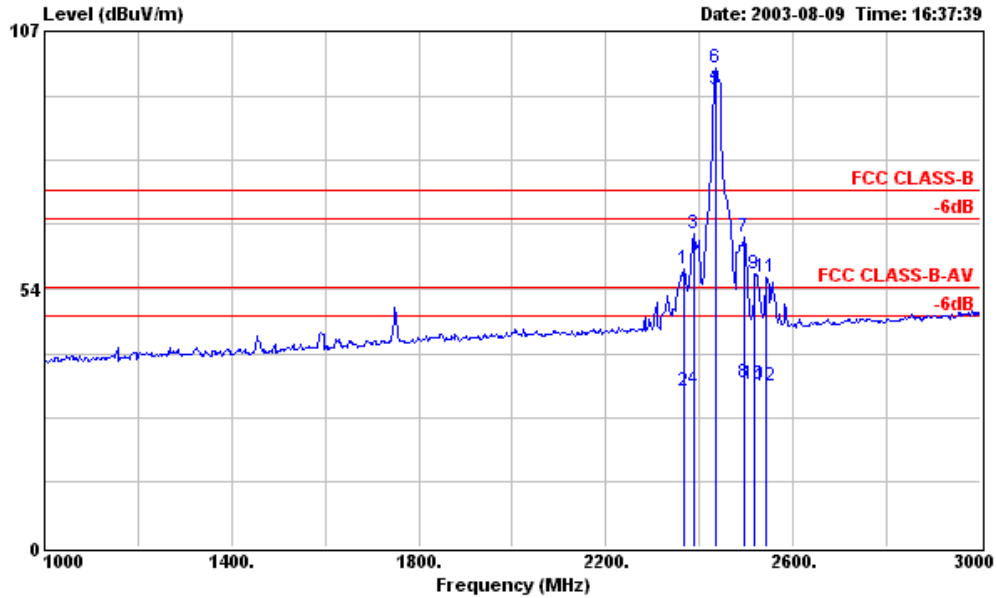
Site : site
 Condition : 3m 03CH03-MAT VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH06 2437MHz
 : 1.5m+9dBi Dipole

| Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|------|---------|-------|--------|-------|-------|-------|--------|------------|-----|-------|
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 86.970 | 32.25 | -7.75 | 40.00 | 49.64 | 8.10 | 1.54 | 27.03 Peak | --- | --- |
| 2 | 143.130 | 36.72 | -6.78 | 43.50 | 51.49 | 9.99 | 2.07 | 26.83 Peak | --- | --- |
| 3 | 250.050 | 35.92 | -10.08 | 46.00 | 48.57 | 11.34 | 2.61 | 26.60 Peak | --- | --- |



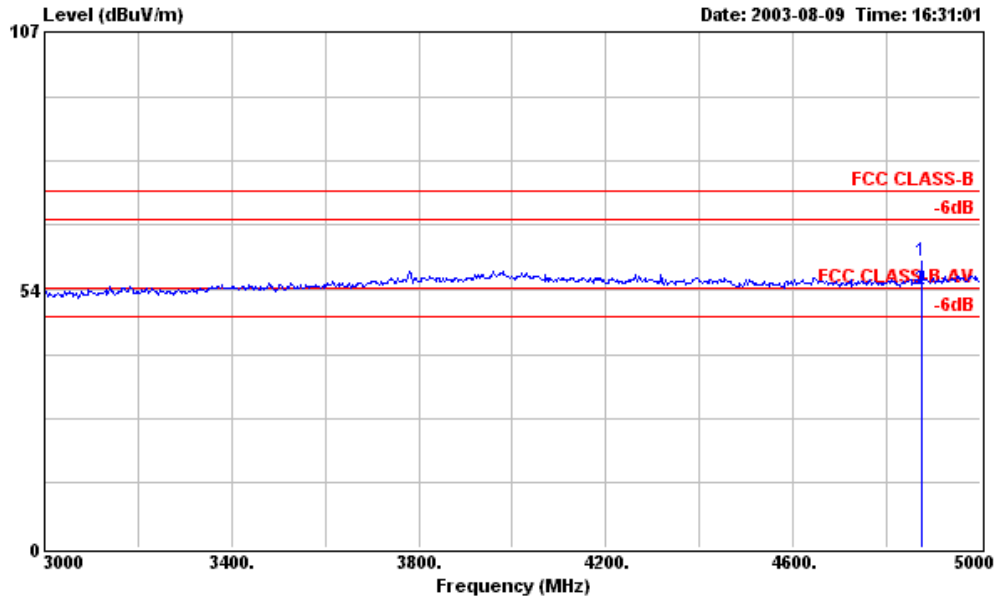
Site : site
 Condition : 3m 03CH03-MAT VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH06 2437MHz
 : 1.5m+9dBi Dipole

| Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table | |
|------|---------|-------|--------|-------|-------|-------|--------|--------|------|-------|-------|
| | | | | | | | | | | | Limit |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg | |
| 1 | 441.400 | 35.52 | -10.48 | 46.00 | 44.18 | 15.21 | 3.54 | 27.41 | Peak | --- | --- |
| 2 ! | 624.100 | 42.78 | -3.22 | 46.00 | 48.90 | 17.46 | 4.42 | 28.00 | Peak | 100 | 39 |
| 3 | 786.500 | 39.51 | -6.49 | 46.00 | 43.80 | 18.68 | 5.03 | 28.00 | Peak | --- | --- |

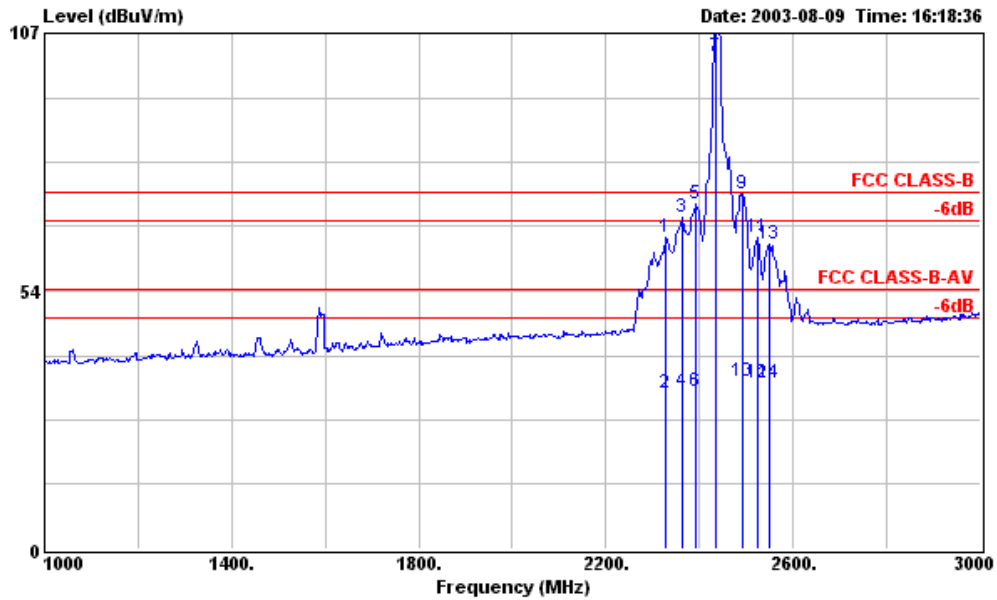


Site : 03CH03-HY
 Condition : 3m HORN-ANT-6741 HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH06 2437MHz
 : 1.5m+9dBi Dipole

| | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Preamp Factor | Remark | Ant Pos | Table Pos |
|----|----------|--------|------------|------------|------------|--------------|------------|---------------|---------|---------|-----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 2366.000 | 57.55 | -16.45 | 74.00 | 50.40 | 28.15 | 6.16 | 27.16 | Peak | --- | --- |
| 2 | 2366.000 | 32.31 | -21.69 | 54.00 | 25.16 | 28.15 | 6.16 | 27.16 | Average | --- | --- |
| 3 | 2388.000 | 64.90 | -9.10 | 74.00 | 57.67 | 28.20 | 6.19 | 27.16 | Peak | --- | --- |
| 4 | 2388.000 | 32.67 | -21.33 | 54.00 | 25.44 | 28.20 | 6.19 | 27.16 | Average | --- | --- |
| 7 | 2494.000 | 64.34 | -9.66 | 74.00 | 56.77 | 28.42 | 6.33 | 27.18 | Peak | --- | --- |
| 8 | 2494.000 | 33.95 | -20.05 | 54.00 | 26.38 | 28.42 | 6.33 | 27.18 | Average | --- | --- |
| 9 | 2518.000 | 56.66 | -17.34 | 74.00 | 48.97 | 28.49 | 6.38 | 27.18 | Peak | --- | --- |
| 10 | 2518.000 | 33.76 | -20.24 | 54.00 | 26.07 | 28.49 | 6.38 | 27.18 | Average | --- | --- |
| 11 | 2542.000 | 55.98 | -18.02 | 74.00 | 48.17 | 28.57 | 6.42 | 27.18 | Peak | --- | --- |
| 12 | 2542.000 | 33.42 | -20.58 | 54.00 | 25.61 | 28.57 | 6.42 | 27.18 | Average | --- | --- |

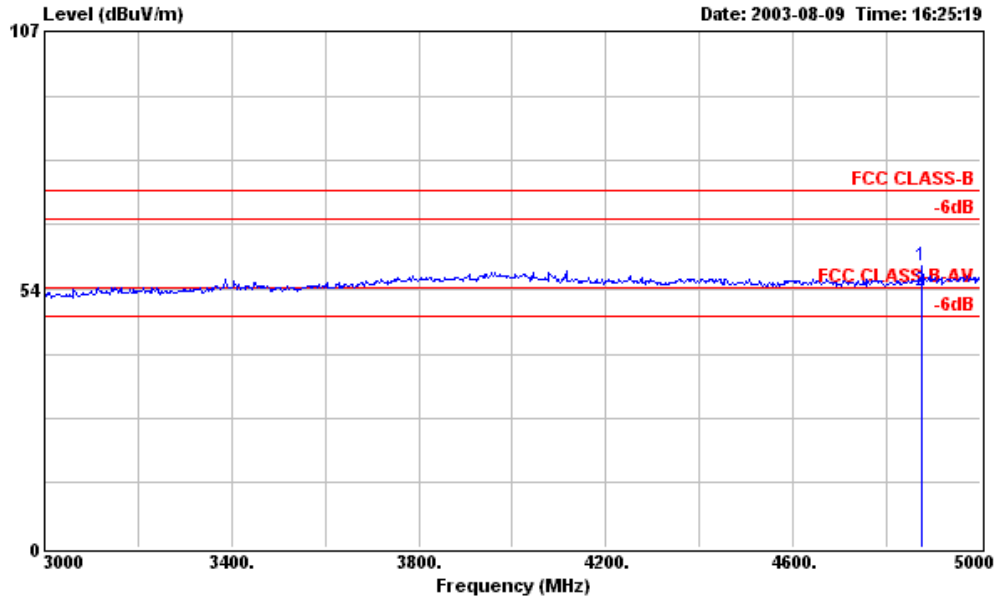


Site : 03CH03-HY
Condition : 3m HORN-ANT-6741 HORIZONTAL
EUT : Wireless 2.4G AP
Power : 110V/60Hz
MODEL : ME-103
MEMO : TX CH06 2437MHz
: 1.5m+9dBi Dipole



Site : 03CH03-HY
 Condition : 3m HORN-ANT-6741 VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH06 2437MHz
 : 1.5m+9dBi Dipole

| | Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|-----|----------|--------|--------|--------|-------|--------|-------|--------|---------|-----|-------|
| | MHz | dBuV/m | Limit | Line | Level | Factor | Loss | Factor | | Pos | Pos |
| | | | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 2326.000 | 64.50 | -9.50 | 74.00 | 57.47 | 28.07 | 6.11 | 27.15 | Peak | --- | --- |
| 2 | 2326.000 | 32.28 | -21.72 | 54.00 | 25.25 | 28.07 | 6.11 | 27.15 | Average | --- | --- |
| 3 ! | 2364.000 | 68.76 | -5.24 | 74.00 | 61.61 | 28.15 | 6.16 | 27.16 | Peak | --- | --- |
| 4 | 2364.000 | 32.50 | -21.50 | 54.00 | 25.35 | 28.15 | 6.16 | 27.16 | Average | --- | --- |
| 5 ! | 2390.000 | 71.44 | -2.56 | 74.00 | 64.20 | 28.20 | 6.20 | 27.16 | Peak | --- | --- |
| 6 | 2390.000 | 32.71 | -21.29 | 54.00 | 25.47 | 28.20 | 6.20 | 27.16 | Average | --- | --- |
| 9 ! | 2492.000 | 73.75 | -0.25 | 74.00 | 66.19 | 28.41 | 6.33 | 27.18 | Peak | --- | --- |
| 10 | 2492.000 | 34.65 | -19.35 | 54.00 | 27.09 | 28.41 | 6.33 | 27.18 | Average | --- | --- |
| 11 | 2524.000 | 64.53 | -9.47 | 74.00 | 56.81 | 28.51 | 6.39 | 27.18 | Peak | --- | --- |
| 12 | 2524.000 | 34.51 | -19.49 | 54.00 | 26.79 | 28.51 | 6.39 | 27.18 | Average | --- | --- |
| 13 | 2548.000 | 63.29 | -10.71 | 74.00 | 55.45 | 28.59 | 6.43 | 27.18 | Peak | --- | --- |
| 14 | 2548.000 | 34.38 | -19.62 | 54.00 | 26.54 | 28.59 | 6.43 | 27.18 | Average | --- | --- |



Site : 03CH03-HY
Condition : 3m HORN-ANT-6741 VERTICAL
EUT : Wireless 2.4G AP
Power : 110V/60Hz
MODEL : ME-103
MEMO : TX CH06 2437MHz
: 1.5m+9dBi Dipole

➤ For 5GHz ~ 25GHz

Remark: Frequency from 5000MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

| Frequency (MHz) | Antenna Polarity | Cable Factor | Reading Loss | Limits (dBuV) | Emission (dBuV/m) | Level (uV/m) | Margin (dB) | Detect Mode | | |
|----------------------|---------------------|-----------------|-----------------|--------------------|------------------------|-------------------|------------------|----------------|--------|---------------|
| 2436.000 | H | 28.29 | 6.26 | 60.33 | - | - | 94.88 | 55462.57 | A.V. | |
| 2436.000 | H | 28.29 | 6.26 | 64.66 | - | - | 99.21 | 91306.14 | Peak | |
| 4876.000 | H | 33.17 | 9.09 | 17.28 | 74.00 | 5011.87 | 59.54 | 948.42 | -14.46 | Peak |
| 4876.000 | H | 33.17 | 9.09 | 11.35 | 54.00 | 501.19 | 53.61 | 479.18 | -0.39 | A.V. |
| 2436.000 | V | 28.29 | 6.26 | 67.51 | - | - | 102.06 | 126765.19 | | A.V. |
| 2436.000 | V | 28.29 | 6.26 | 73.91 | - | - | 108.46 | 264850.01 | | Peak |
| 4876.000 | V | 33.17 | 9.09 | 16.00 | 74.00 | 5011.87 | 58.26 | 818.46 | -15.74 | Peak |
| 4876.000 | V | 33.17 | 9.09 | 10.78 | 54.00 | 501.19 | 53.04 | 448.75 | -0.96 | A.V. |
| 7311.000 | V/H | | | | | | - | | | Peak, A.V. |
| 9748.000 | V/H | | | | | | - | | | Peak, A.V. |
| 12185.000 | V/H | | | | | | - | | | Peak, A.V. |
| 14622.000 | V/H | | | | | | - | | | Peak, A.V. |
| 17059.000 | V/H | | | | | | - | | | Peak, A.V. |
| 19496.000 | V/H | | | | | | - | | | Peak, A.V. |
| 21933.000 | V/H | | | | | | - | | | Peak, A.V. |
| 24370.000 | V/H | | | | | | - | | | Peak, A.V. |

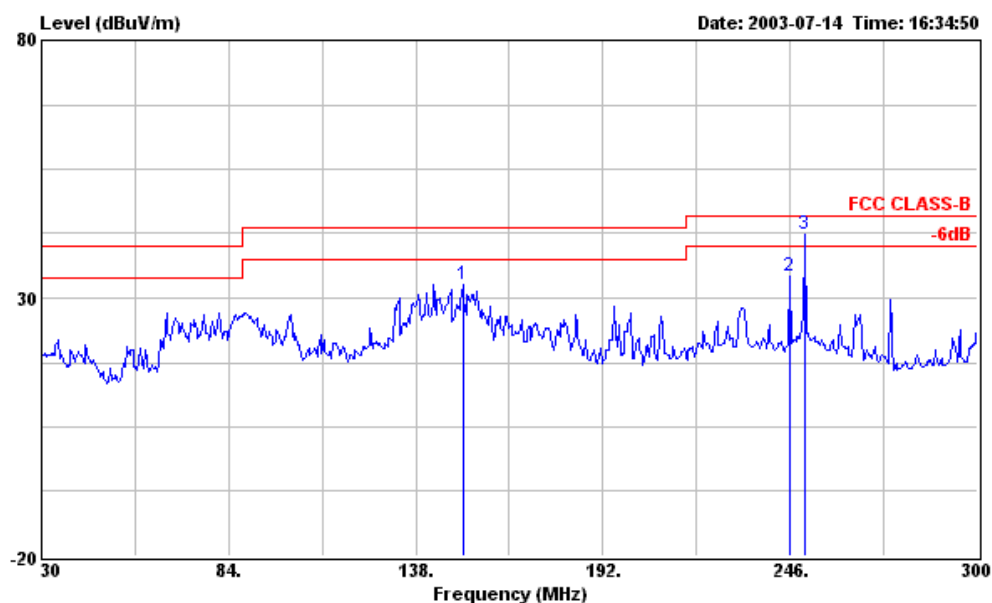
Remark: The emission emitted by the EUT is too low to be measured except the emission listed above

Test Engineer: Jay
Jay Zhong

- Test Mode: Mode 9
- Test Distance: 3 M
- Temperature: 29.9 °C
- Relative Humidity: 72 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

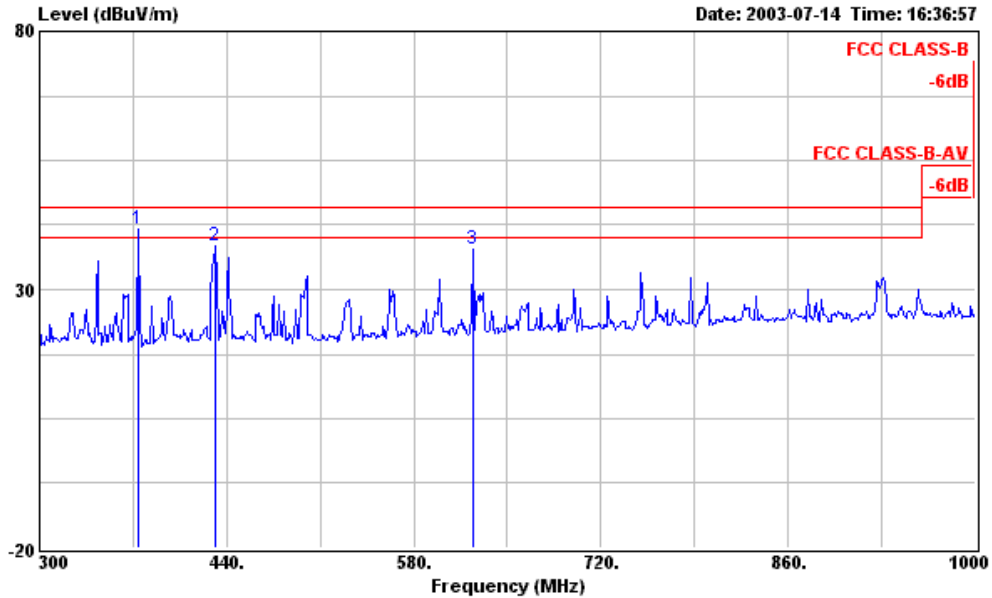
■ The test was passed at the minimum margin that marked under gray area in the following table, and its antenna height is 1.02 m, turn table degree is 27°

■ Spurious Emission



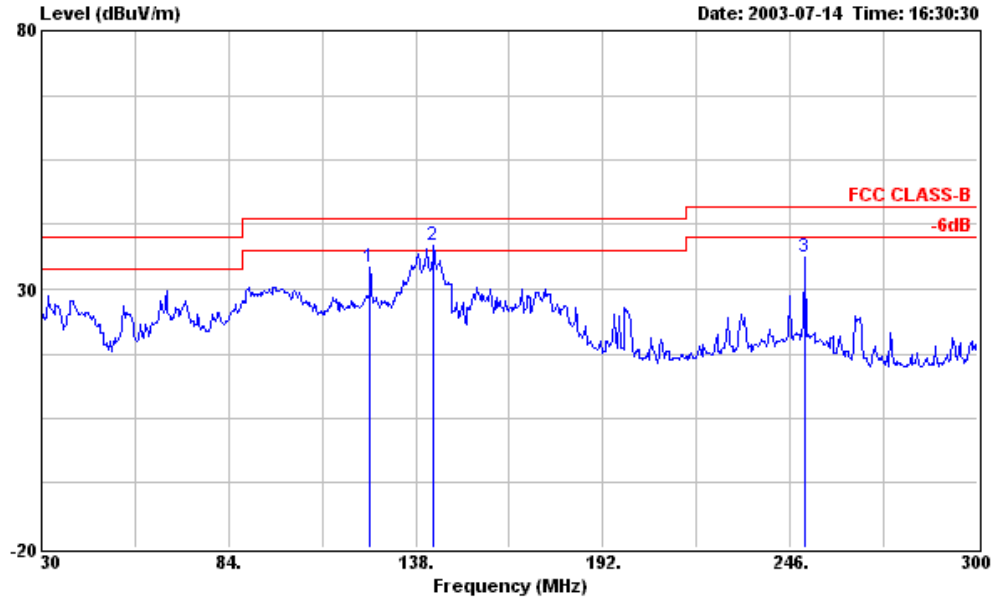
Site : site
 Condition : 3m 03CH03-MAT HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+9dBi Dipole

| | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Preamp Factor | Remark | Ant Pos | Table Pos |
|-----|---------|--------|------------|------------|------------|--------------|------------|---------------|--------|---------|-----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 151.500 | 32.56 | -10.94 | 43.50 | 48.03 | 9.22 | 2.10 | 26.79 | Peak | --- | --- |
| 2 | 245.730 | 34.34 | -11.66 | 46.00 | 47.20 | 11.16 | 2.58 | 26.60 | Peak | --- | --- |
| 3 ! | 250.050 | 42.39 | -3.61 | 46.00 | 55.04 | 11.34 | 2.61 | 26.60 | Peak | --- | --- |



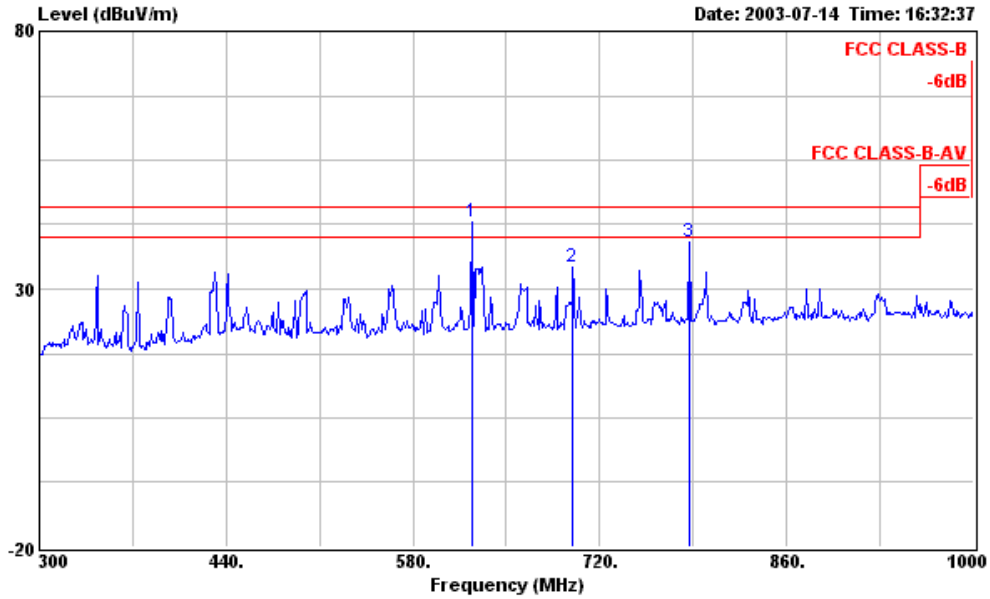
Site : site
 Condition : 3m 03CH03-MAT HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+9dBi Dipole

| | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Preamp Factor | Remark | Ant Pos | Table Pos |
|-----|---------|--------|------------|------------|------------|--------------|------------|---------------|--------|---------|-----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 ! | 374.200 | 41.53 | -4.47 | 46.00 | 51.25 | 13.82 | 3.50 | 27.04 | Peak | --- | --- |
| 2 | 430.900 | 38.56 | -7.44 | 46.00 | 47.30 | 15.07 | 3.54 | 27.35 | Peak | --- | --- |
| 3 | 624.100 | 37.74 | -8.26 | 46.00 | 43.86 | 17.46 | 4.42 | 28.00 | Peak | --- | --- |



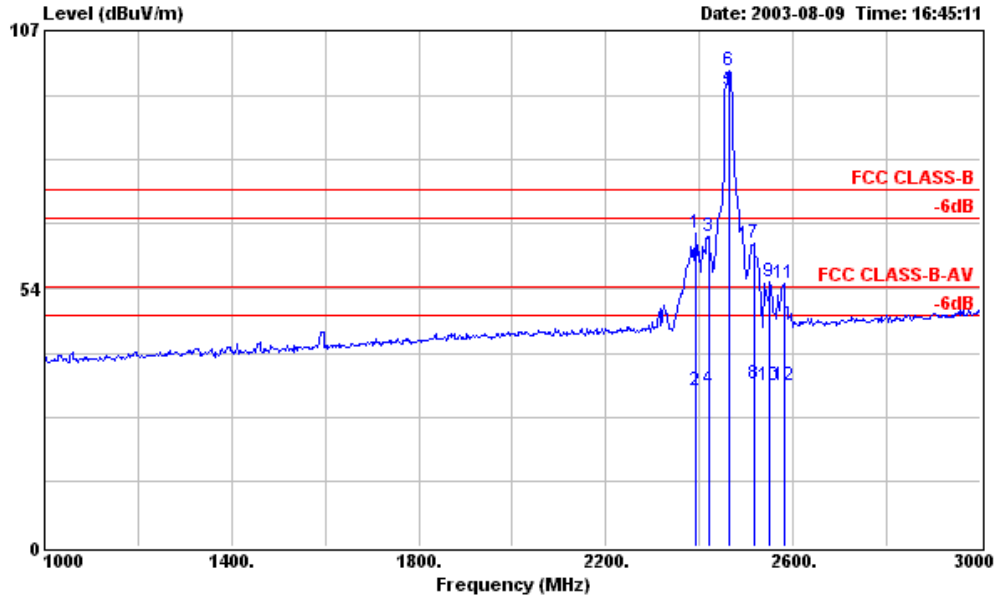
Site : site
 Condition : 3m 03CH03-MAT VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+9dBi Dipole

| | Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|-----|---------|--------|-------|--------|-------|-------|-------|--------|--------|-----|-------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 124.770 | 34.11 | -9.39 | 43.50 | 48.90 | 10.25 | 1.86 | 26.90 | Peak | --- | --- |
| 2 ! | 143.130 | 38.34 | -5.16 | 43.50 | 53.11 | 9.99 | 2.07 | 26.83 | Peak | --- | --- |
| 3 | 250.050 | 36.29 | -9.71 | 46.00 | 48.94 | 11.34 | 2.61 | 26.60 | Peak | --- | --- |



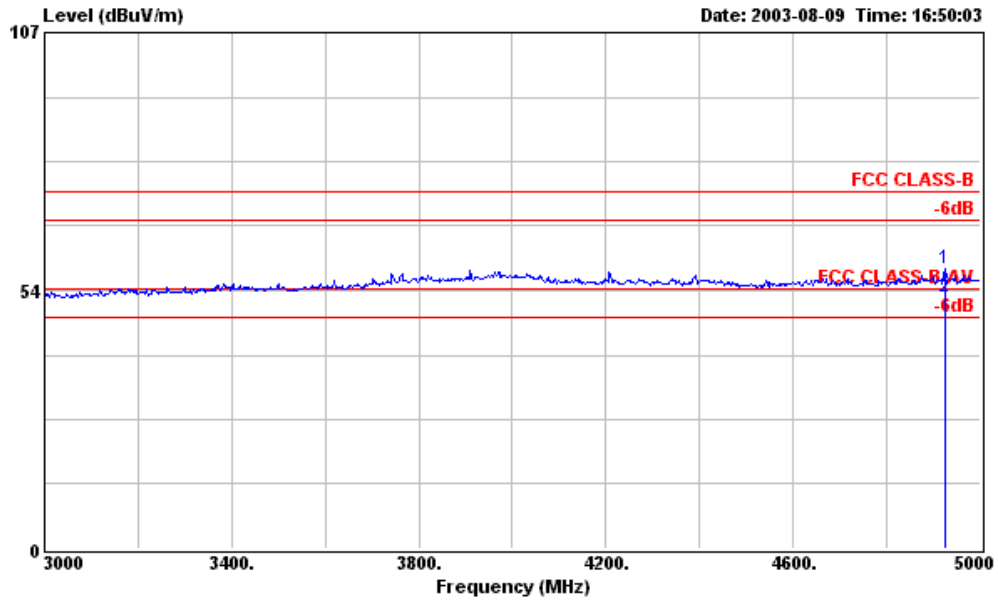
Site : site
 Condition : 3m 03CH03-MAT VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+9dBi Dipole

| | Over | Limit | Read | Probe | Cable | Preamp | Ant | Table | | | |
|------|---------|-------|--------|-------|--------|--------|--------|--------|------|-----|-----|
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg | |
| 1 ! | 624.100 | 42.83 | -3.17 | 46.00 | 48.95 | 17.46 | 4.42 | 28.00 | Peak | 100 | 48 |
| 2 | 699.700 | 34.34 | -11.66 | 46.00 | 39.60 | 18.00 | 4.74 | 28.00 | Peak | --- | --- |
| 3 | 786.500 | 39.08 | -6.92 | 46.00 | 43.37 | 18.68 | 5.03 | 28.00 | Peak | --- | --- |

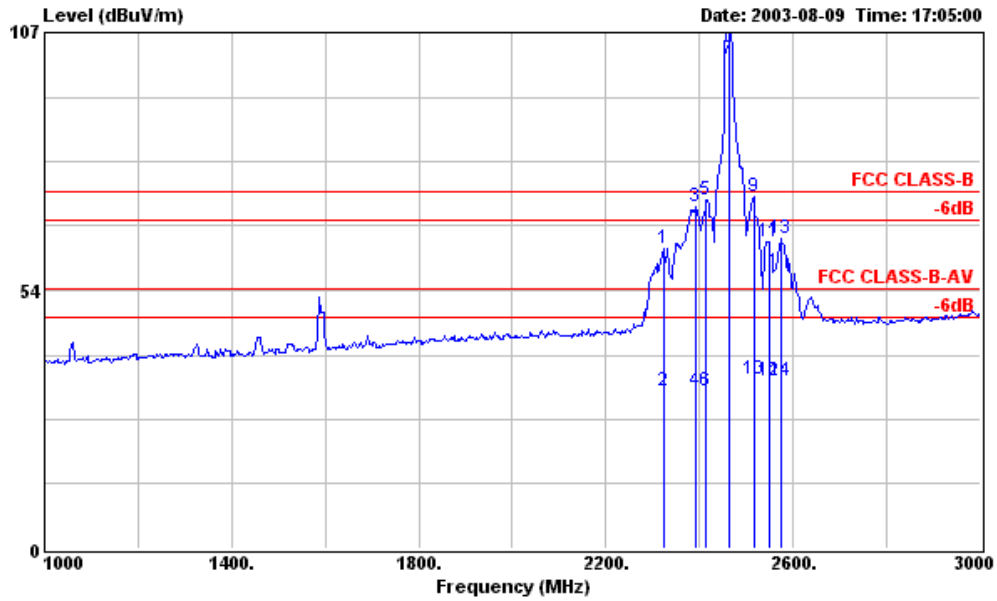


Site : 03CH03-HY
 Condition : 3m HORN-ANT-6741 HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+9dBi Dipole

| | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Preamp Factor | Remark | Ant Pos | Table Pos |
|----|----------|--------|------------|------------|------------|--------------|------------|---------------|---------|---------|-----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 2390.000 | 65.00 | -9.00 | 74.00 | 57.76 | 28.20 | 6.20 | 27.16 | Peak | --- | --- |
| 2 | 2390.000 | 32.35 | -21.65 | 54.00 | 25.11 | 28.20 | 6.20 | 27.16 | Average | --- | --- |
| 3 | 2420.000 | 64.25 | -9.75 | 74.00 | 56.92 | 28.26 | 6.23 | 27.16 | Peak | --- | --- |
| 4 | 2420.000 | 32.73 | -21.27 | 54.00 | 25.40 | 28.26 | 6.23 | 27.16 | Average | --- | --- |
| 7 | 2516.000 | 62.83 | -11.17 | 74.00 | 55.15 | 28.49 | 6.37 | 27.18 | Peak | --- | --- |
| 8 | 2516.000 | 33.64 | -20.36 | 54.00 | 25.96 | 28.49 | 6.37 | 27.18 | Average | --- | --- |
| 9 | 2550.000 | 54.91 | -19.09 | 74.00 | 47.07 | 28.59 | 6.43 | 27.18 | Peak | --- | --- |
| 10 | 2550.000 | 33.51 | -20.49 | 54.00 | 25.67 | 28.59 | 6.43 | 27.18 | Average | --- | --- |
| 11 | 2580.000 | 54.63 | -19.37 | 74.00 | 46.64 | 28.69 | 6.49 | 27.19 | Peak | --- | --- |
| 12 | 2580.000 | 33.26 | -20.74 | 54.00 | 25.27 | 28.69 | 6.49 | 27.19 | Average | --- | --- |

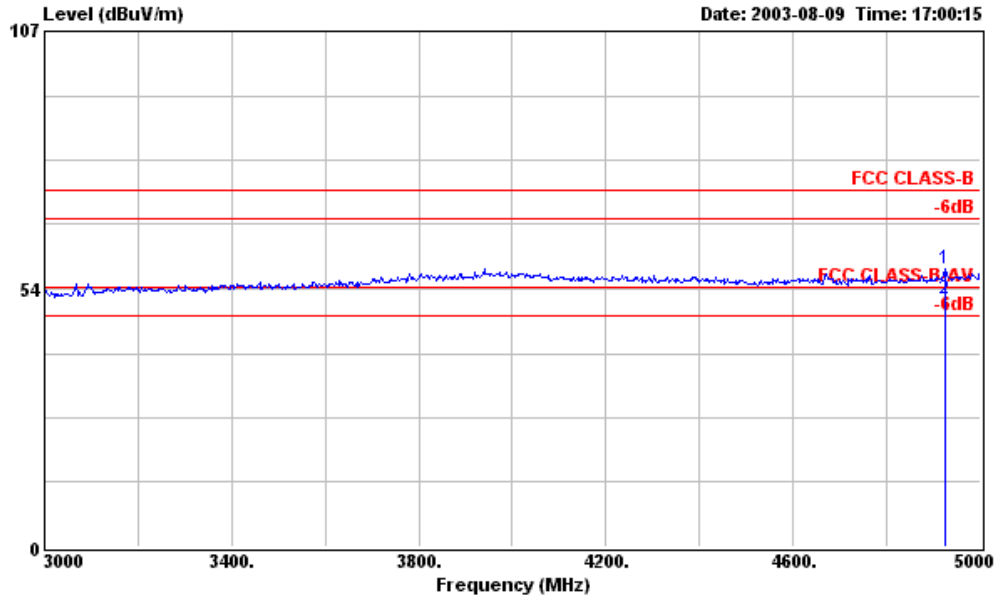


Site : 03CH03-HY
Condition : 3m HORN-ANT-6741 HORIZONTAL
EUT : Wireless 2.4G AP
Power : 110V/60Hz
MODEL : ME-103
MEMO : TX CH11 2462MHz
: 1.5m+9dBi Dipole



Site : 03CH03-HY
 Condition : 3m HORN-ANT-6741 VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+9dBi Dipole

| | Over | Limit | Read | Probe | Cable | Preamp | Ant | Table | | | |
|------|----------|-------|--------|-------|--------|--------|--------|--------|---------|-----|-----|
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | cm | | | |
| 1 | 2324.000 | 62.08 | -11.92 | 74.00 | 55.05 | 28.07 | 6.11 | 27.15 | Peak | --- | --- |
| 2 | 2324.000 | 32.66 | -21.34 | 54.00 | 25.63 | 28.07 | 6.11 | 27.15 | Average | --- | --- |
| 3 ! | 2390.000 | 70.77 | -3.23 | 74.00 | 63.53 | 28.20 | 6.20 | 27.16 | Peak | --- | --- |
| 4 | 2390.000 | 32.73 | -21.27 | 54.00 | 25.49 | 28.20 | 6.20 | 27.16 | Average | --- | --- |
| 5 ! | 2414.000 | 72.30 | -1.70 | 74.00 | 64.98 | 28.25 | 6.23 | 27.16 | Peak | --- | --- |
| 6 | 2414.000 | 32.81 | -21.19 | 54.00 | 25.49 | 28.25 | 6.23 | 27.16 | Average | --- | --- |
| 9 ! | 2516.000 | 72.85 | -1.15 | 74.00 | 65.17 | 28.49 | 6.37 | 27.18 | Peak | --- | --- |
| 10 | 2516.000 | 34.94 | -19.06 | 54.00 | 27.26 | 28.49 | 6.37 | 27.18 | Average | --- | --- |
| 11 | 2548.000 | 63.67 | -10.33 | 74.00 | 55.83 | 28.59 | 6.43 | 27.18 | Peak | --- | --- |
| 12 | 2548.000 | 34.75 | -19.25 | 54.00 | 26.91 | 28.59 | 6.43 | 27.18 | Average | --- | --- |
| 13 | 2574.000 | 64.15 | -9.85 | 74.00 | 56.20 | 28.67 | 6.47 | 27.19 | Peak | --- | --- |
| 14 | 2574.000 | 34.66 | -19.34 | 54.00 | 26.71 | 28.67 | 6.47 | 27.19 | Average | --- | --- |



Site : 03CH03-HY
Condition : 3m HORN-ANT-6741 VERTICAL
EUT : Wireless 2.4G AP
Power : 110V/60Hz
MODEL : ME-103
MEMO : TX CH11 2462MHz
: 1.5m+9dBi Dipole

➤ For 5GHz ~ 25GHz

Remark: Frequency from 5000MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

| Frequency (MHz) | Antenna Polarity | Cable Factor | Reading Loss | Limits (dBuV) | Emission (dBuV/m) | Level (uV/m) | Margin (dB) | Detect Mode | | |
|----------------------|---------------------|-----------------|-----------------|--------------------|------------------------|-------------------|------------------|----------------|--------|---------------|
| 2462.000 | H | 28.35 | 6.29 | 59.74 | - | - | 94.38 | 52360.04 | A.V. | |
| 2462.000 | H | 28.35 | 6.29 | 63.92 | - | - | 98.56 | 84722.74 | Peak | |
| 4924.000 | H | 33.27 | 9.12 | 15.76 | 74.00 | 5011.87 | 58.15 | 808.16 | -15.85 | Peak |
| 4924.000 | H | 33.27 | 9.12 | 9.77 | 54.00 | 501.19 | 52.16 | 405.51 | -1.84 | A.V. |
| 2462.000 | V | 28.35 | 6.29 | 66.73 | - | - | 101.37 | 117084.66 | | A.V. |
| 2462.000 | V | 28.35 | 6.29 | 75.05 | - | - | 109.69 | 305140.60 | | Peak |
| 4924.000 | V | 33.27 | 9.12 | 15.23 | 74.00 | 5011.87 | 57.62 | 760.33 | -16.38 | Peak |
| 4924.000 | V | 33.27 | 9.12 | 8.88 | 54.00 | 501.19 | 51.27 | 366.02 | -2.73 | A.V. |
| 7386.000 | V/H | | | | | | - | | | Peak, A.V. |
| 9848.000 | V/H | | | | | | - | | | Peak, A.V. |
| 12310.000 | V/H | | | | | | - | | | Peak, A.V. |
| 14772.000 | V/H | | | | | | - | | | Peak, A.V. |
| 17234.000 | V/H | | | | | | - | | | Peak, A.V. |
| 19696.000 | V/H | | | | | | - | | | Peak, A.V. |
| 22158.000 | V/H | | | | | | - | | | Peak, A.V. |
| 24620.000 | V/H | | | | | | - | | | Peak, A.V. |

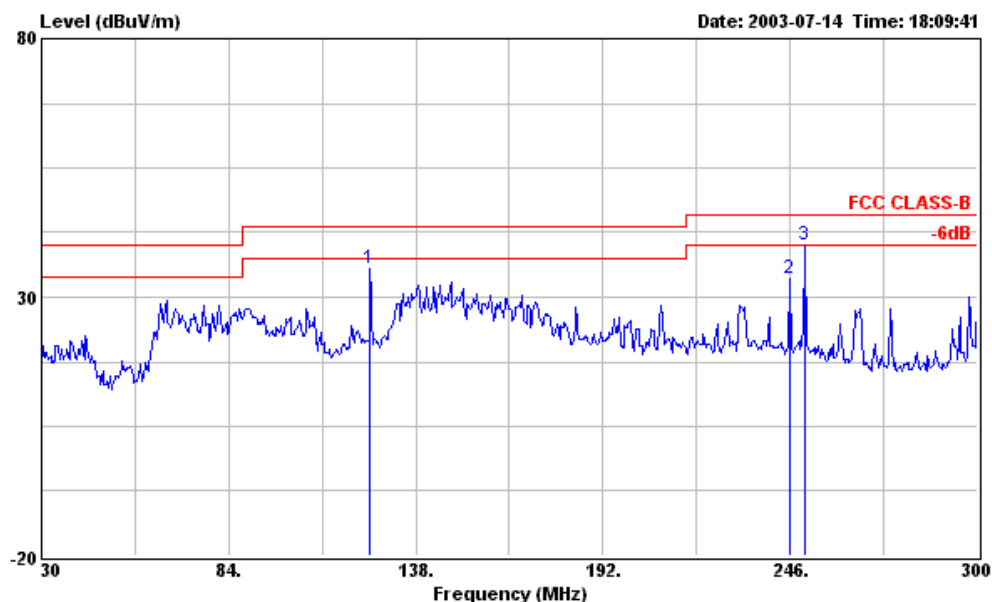
Remark: The emission emitted by the EUT is too low to be measured except the emission listed above

Test Engineer: Jay
Jay Zhong

- Test Mode: Mode 10
- Test Distance: 3 M
- Temperature: 29.9 °C
- Relative Humidity: 72 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

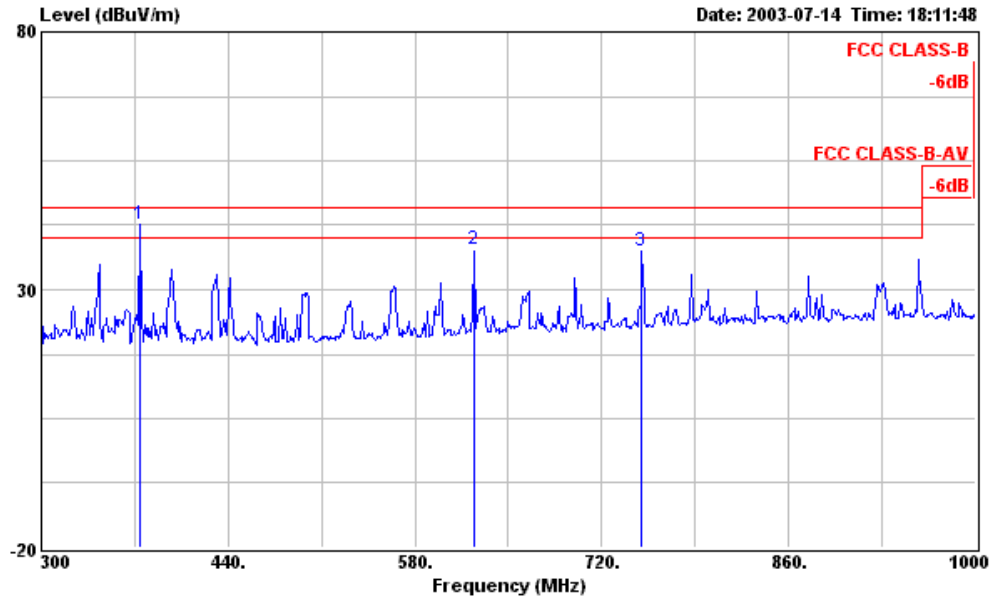
■ The test was passed at the minimum margin that marked under gray area in the following table, and its antenna height is 1.02 m, turn table degree is 68°

■ Spurious Emission



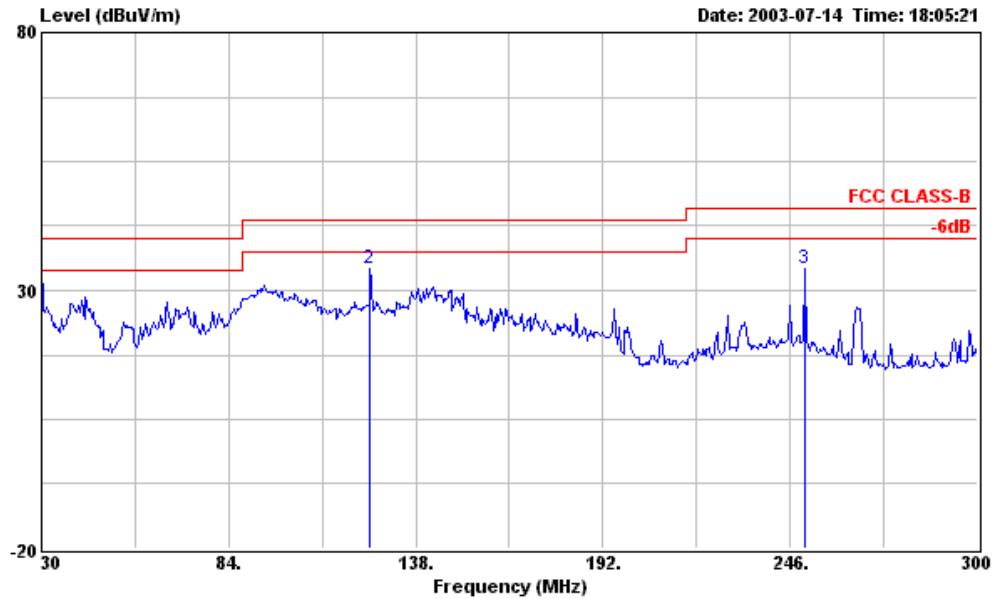
Site : site
 Condition : 3m 03CH03-MAT HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH01 2412MHz
 : 1.5m+18dBi Patch

| Peak | Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|------|---------|--------|--------|--------|-------|-------|-------|--------|--------|-----|-------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 124.770 | 35.65 | -7.85 | 43.50 | 50.44 | 10.25 | 1.86 | 26.90 | Peak | --- | --- |
| 2 | 245.730 | 33.42 | -12.58 | 46.00 | 46.28 | 11.16 | 2.58 | 26.60 | Peak | --- | --- |
| 3 ! | 250.050 | 40.20 | -5.80 | 46.00 | 52.85 | 11.34 | 2.61 | 26.60 | Peak | --- | --- |



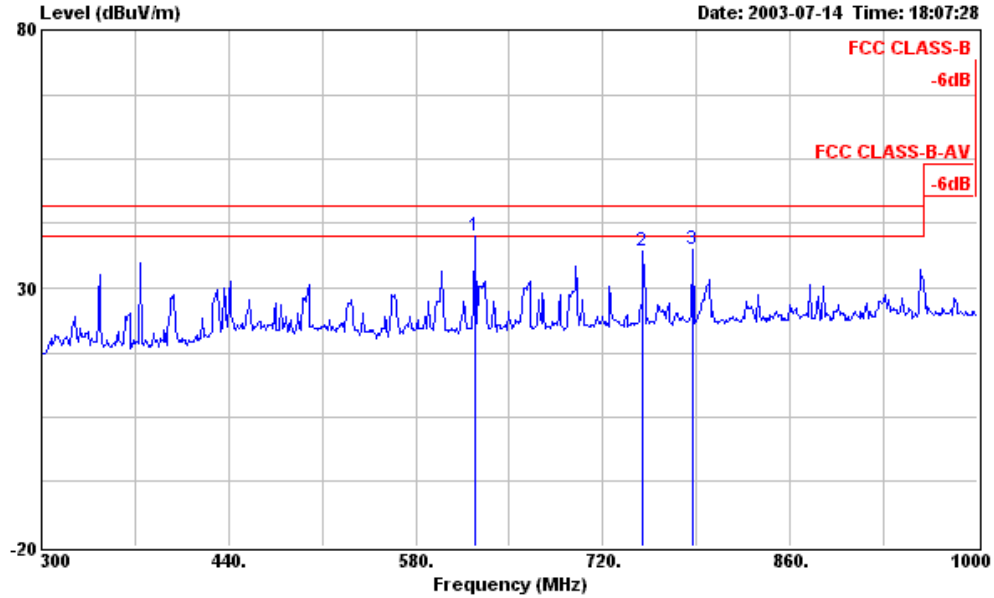
Site : site
 Condition : 3m 03CH03-MAT HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH01 2412MHz
 : 1.5m+18dBi Patch

| | Over | Limit | Read | Probe | Cable | Preamp | | Ant | Table | | |
|------|---------|-------|--------|-------|--------|--------|--------|--------|-------|-----|-----|
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg | |
| 1 ! | 374.200 | 42.73 | -3.27 | 46.00 | 52.45 | 13.82 | 3.50 | 27.04 | Peak | 100 | 52 |
| 2 | 624.100 | 37.63 | -8.37 | 46.00 | 43.75 | 17.46 | 4.42 | 28.00 | Peak | --- | --- |
| 3 | 750.100 | 37.45 | -8.55 | 46.00 | 42.10 | 18.40 | 4.95 | 28.00 | Peak | --- | --- |



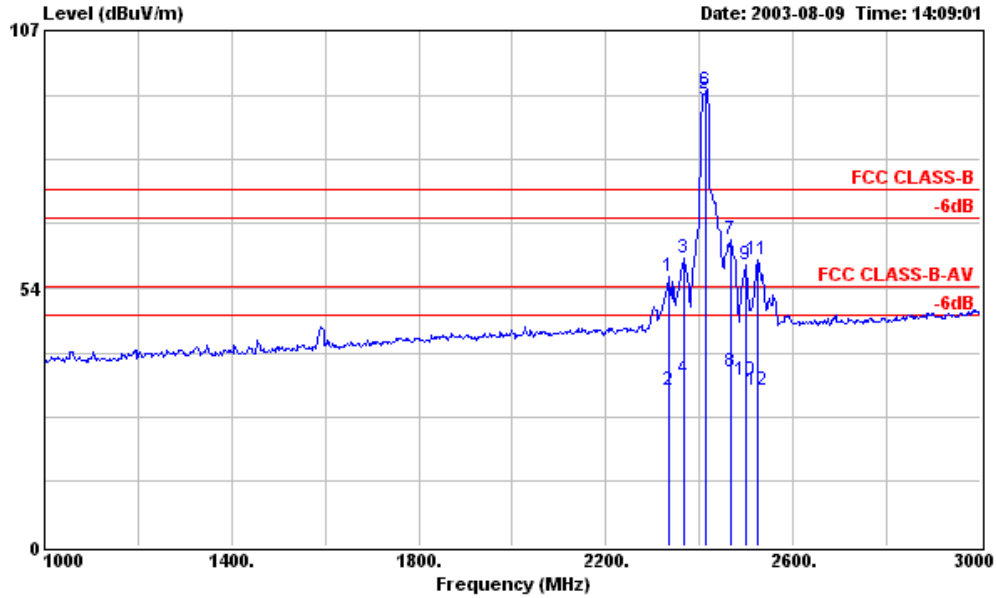
Site : site
 Condition : 3m 03CH03-MAT VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH01 2412MHz
 : 1.5m+18dBi Patch

| Peak | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Preamp Factor | Remark | Ant Pos | Table Pos |
|------|---------|--------|------------|------------|------------|--------------|------------|---------------|--------|---------|-----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 30.000 | 33.35 | -6.65 | 40.00 | 44.09 | 15.35 | 1.01 | 27.10 | Peak | --- | --- |
| 2 | 124.770 | 34.23 | -9.27 | 43.50 | 49.02 | 10.25 | 1.86 | 26.90 | Peak | --- | --- |
| 3 | 250.050 | 34.12 | -11.88 | 46.00 | 46.77 | 11.34 | 2.61 | 26.60 | Peak | --- | --- |



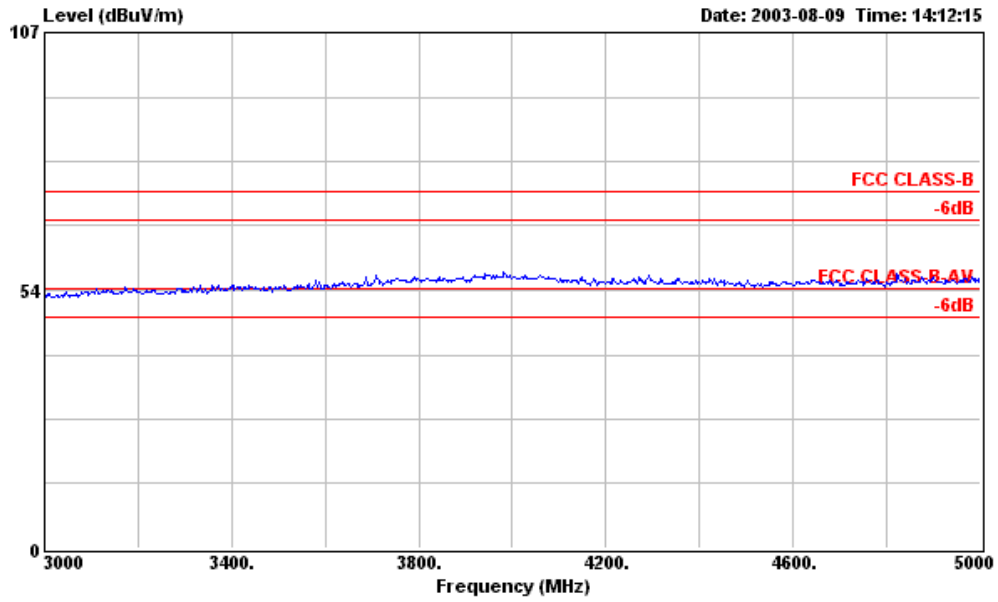
Site : site
 Condition : 3m 03CH03-MAT VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH01 2412MHz
 : 1.5m+18dBi Patch

| Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Preamp Factor | Remark | Ant | Table | |
|------|---------|------------|------------|------------|--------------|------------|---------------|--------|------|-------|-----|
| | | | | | | | | | Pos | Pos | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg | |
| 1 | 624.100 | 39.93 | -6.07 | 46.00 | 46.05 | 17.46 | 4.42 | 28.00 | Peak | --- | --- |
| 2 | 750.100 | 37.20 | -8.80 | 46.00 | 41.85 | 18.40 | 4.95 | 28.00 | Peak | --- | --- |
| 3 | 786.500 | 37.57 | -8.43 | 46.00 | 41.86 | 18.68 | 5.03 | 28.00 | Peak | --- | --- |

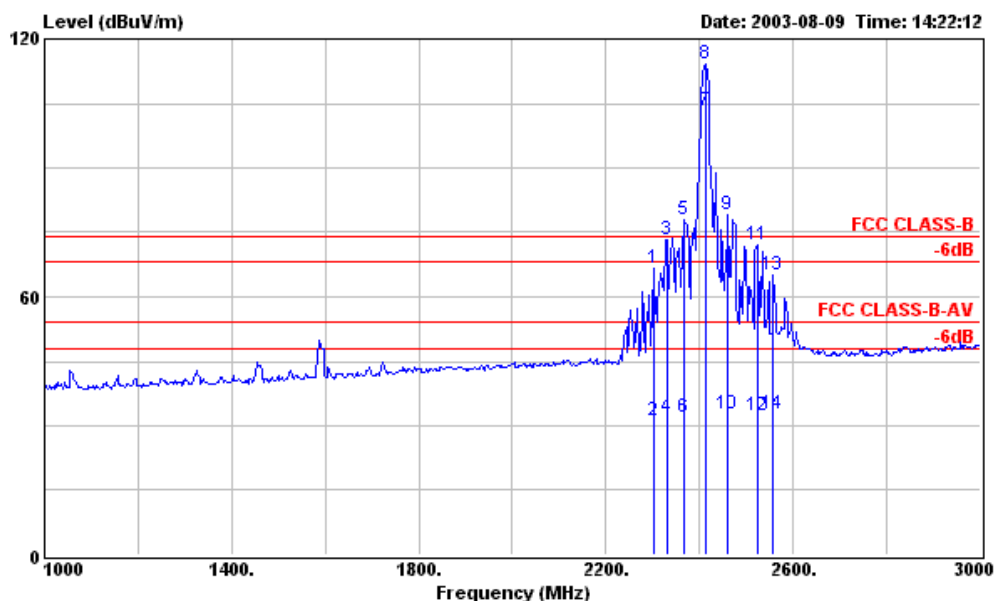


Site : 03CH03-HY
 Condition : 3m HORN-ANT-6741 HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH01 2412MHz
 : 1.5m+18dBi Patch

| Peak | Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|------|----------|--------|--------|--------|-------|--------|-------|--------|---------|-----|-------|
| | MHz | dBuV/m | Limit | Line | Level | Factor | Loss | Factor | | Pos | Pos |
| | | | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 2334.000 | 55.93 | -18.07 | 74.00 | 48.87 | 28.09 | 6.12 | 27.15 | Peak | --- | --- |
| 2 | 2334.000 | 32.41 | -21.59 | 54.00 | 25.35 | 28.09 | 6.12 | 27.15 | Average | --- | --- |
| 3 | 2366.000 | 59.63 | -14.37 | 74.00 | 52.48 | 28.15 | 6.16 | 27.16 | Peak | --- | --- |
| 4 | 2366.000 | 34.73 | -19.27 | 54.00 | 27.58 | 28.15 | 6.16 | 27.16 | Average | --- | --- |
| 7 | 2468.000 | 63.74 | -10.26 | 74.00 | 56.25 | 28.36 | 6.30 | 27.17 | Peak | --- | --- |
| 8 | 2468.000 | 36.18 | -17.82 | 54.00 | 28.69 | 28.36 | 6.30 | 27.17 | Average | --- | --- |
| 9 | 2500.000 | 58.30 | -15.70 | 74.00 | 50.70 | 28.44 | 6.34 | 27.18 | Peak | --- | --- |
| 10 | 2500.000 | 34.22 | -19.78 | 54.00 | 26.62 | 28.44 | 6.34 | 27.18 | Average | --- | --- |
| 11 | 2524.000 | 59.30 | -14.70 | 74.00 | 51.58 | 28.51 | 6.39 | 27.18 | Peak | --- | --- |
| 12 | 2524.000 | 32.35 | -21.65 | 54.00 | 24.63 | 28.51 | 6.39 | 27.18 | Average | --- | --- |

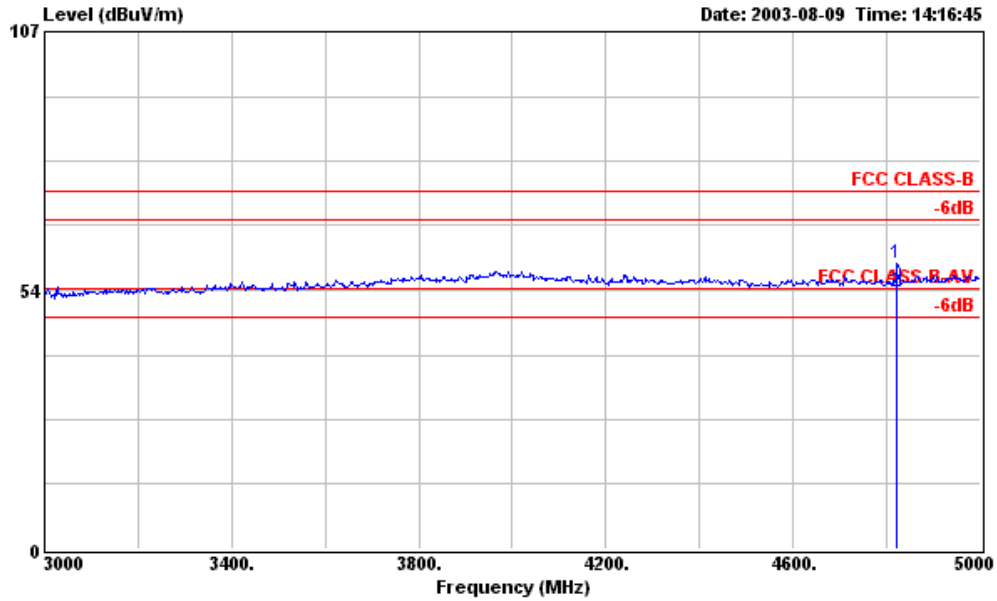


Site : 03CH03-HY
Condition : 3m HORN-ANT-6741 HORIZONTAL
EUT : Wireless 2.4G AP
Power : 110V/60Hz
MODEL : ME-103
MEMO : TX CH01 2412MHz
: 1.5m+18dBi Patch



Site : 03CH03-HY
 Condition : 3m HORN-ANT-6741 VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH01 2412MHz
 : 1.5m+18dBi Patch

| | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Preamp Factor | Remark | Ant Pos | Table Pos |
|------|----------|--------|------------|------------|------------|--------------|------------|---------------|---------|---------|-----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 2302.000 | 66.46 | -7.54 | 74.00 | 59.51 | 28.02 | 6.08 | 27.15 | Peak | --- | --- |
| 2 | 2302.000 | 31.28 | -22.72 | 54.00 | 24.33 | 28.02 | 6.08 | 27.15 | Average | --- | --- |
| 3 ! | 2332.000 | 73.39 | -0.61 | 74.00 | 66.34 | 28.08 | 6.12 | 27.15 | Peak | --- | --- |
| 4 | 2332.000 | 32.13 | -21.87 | 54.00 | 25.08 | 28.08 | 6.12 | 27.15 | Average | --- | --- |
| 5 X | 2366.000 | 77.80 | 3.80 | 74.00 | 70.65 | 28.15 | 6.16 | 27.16 | Peak | --- | --- |
| 6 | 2366.000 | 32.05 | -21.95 | 54.00 | 24.90 | 28.15 | 6.16 | 27.16 | Average | --- | --- |
| 9 X | 2460.000 | 78.96 | 4.96 | 74.00 | 71.50 | 28.34 | 6.29 | 27.17 | Peak | --- | --- |
| 10 | 2460.000 | 32.71 | -21.29 | 54.00 | 25.25 | 28.34 | 6.29 | 27.17 | Average | --- | --- |
| 11 ! | 2524.000 | 72.27 | -1.73 | 74.00 | 64.55 | 28.51 | 6.39 | 27.18 | Peak | --- | --- |
| 12 | 2524.000 | 32.30 | -21.70 | 54.00 | 24.58 | 28.51 | 6.39 | 27.18 | Average | --- | --- |
| 13 | 2558.000 | 65.24 | -8.76 | 74.00 | 57.36 | 28.62 | 6.45 | 27.19 | Peak | --- | --- |
| 14 | 2558.000 | 32.62 | -21.38 | 54.00 | 24.74 | 28.62 | 6.45 | 27.19 | Average | --- | --- |



Site : 03CH03-HY
Condition : 3m HORN-ANT-6741 VERTICAL
EUT : Wireless 2.4G AP
Power : 110V/60Hz
MODEL : ME-103
MEMO : TX CH01 2412MHz
: 1.5m+18dBi Patch

➤ For 5GHz ~ 25GHz

Remark: Frequency from 5000MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

| Frequency (MHz) | Antenna Polarity | Cable Factor | Reading Loss | Limits (dBuV) | Emission (dBuV/m) | Level (uV/m) | Margin (dB) | Detect Mode | | |
|----------------------|---------------------|-----------------|-----------------|--------------------|------------------------|-------------------|------------------|----------------|--------|---------------|
| 2414.000 | H | 28.25 | 6.23 | 57.86 | - | - | 92.34 | 41399.97 | Peak | |
| 2414.000 | H | 28.25 | 6.23 | 59.96 | - | - | 94.44 | 52722.99 | A.V. | |
| 2412.000 | V | 28.24 | 6.22 | 68.96 | - | - | 103.42 | 148251.81 | Peak | |
| 2412.000 | V | 28.24 | 6.22 | 79.65 | - | - | 114.11 | 507574.74 | A.V. | |
| 4822.000 | V | 33.06 | 9.06 | 16.99 | 74.00 | 5011.87 | 59.11 | 902.61 | -14.89 | Peak |
| 4822.000 | V | 33.06 | 9.06 | 10.95 | 54.00 | 501.19 | 53.07 | 450.30 | -0.93 | A.V. |
| 4822.000 | H | | | | | | - | | | Peak, A.V. |
| 7236.000 | V/H | | | | | | - | | | Peak, A.V. |
| 9648.000 | V/H | | | | | | - | | | Peak, A.V. |
| 12060.000 | V/H | | | | | | - | | | Peak, A.V. |
| 14472.000 | V/H | | | | | | - | | | Peak, A.V. |
| 16884.000 | V/H | | | | | | - | | | Peak, A.V. |
| 19296.000 | V/H | | | | | | - | | | Peak, A.V. |
| 21708.000 | V/H | | | | | | - | | | Peak, A.V. |
| 24120.000 | V/H | | | | | | - | | | Peak, A.V. |

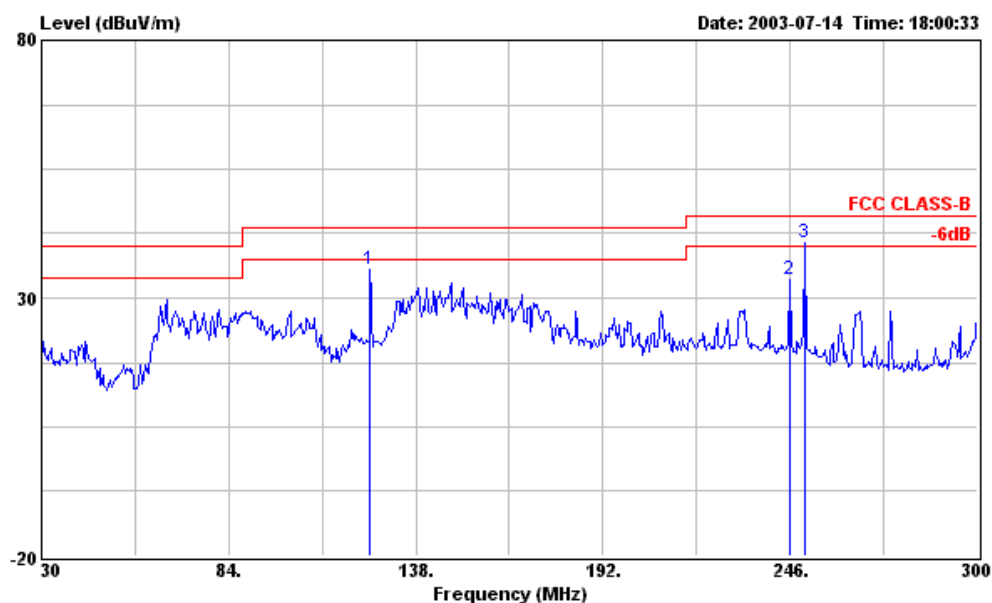
Remark: The emission emitted by the EUT is too low to be measured except the emission listed above

Test Engineer: Jay
Jay Zhong

- Test Mode: Mode 11
- Test Distance: 3 M
- Temperature: 29.9 °C
- Relative Humidity: 72 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

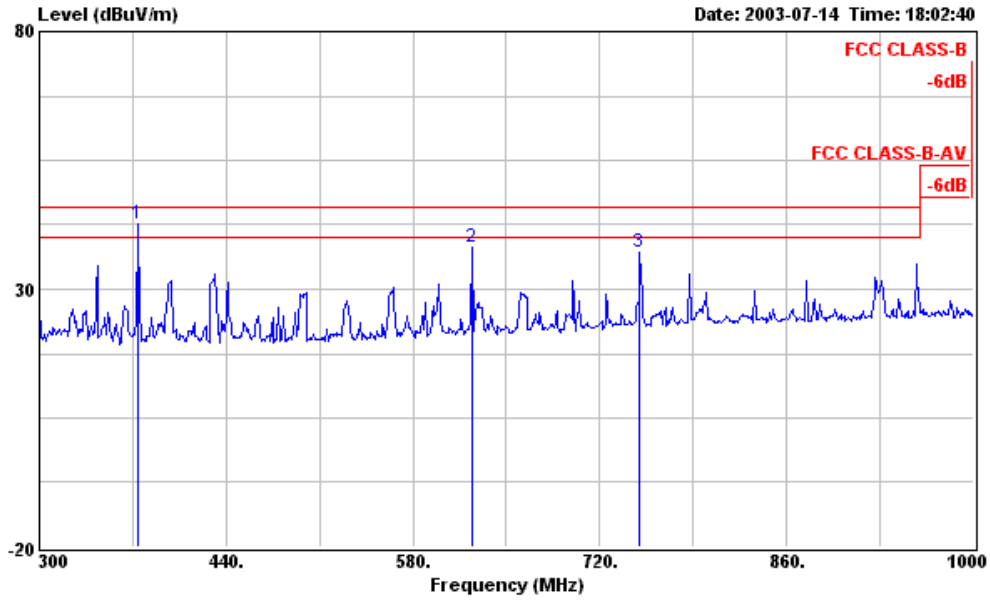
■ The test was passed at the minimum margin that marked under gray area in the following table, and its antenna height is 1 m, turn table degree is 70°

■ Spurious Emission



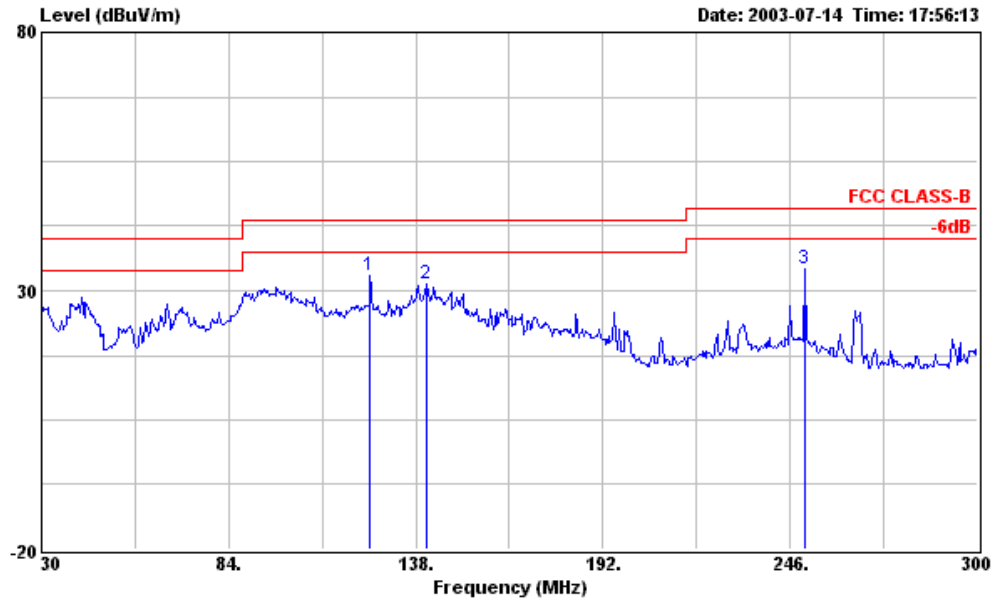
Site : site
 Condition : 3m 03CH03-MAT HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH06 2437MHz
 : 1.5m+18dBi Patch

| | Freq | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Preamp Factor | Remark | Ant Pos | Table Pos |
|-----|---------|--------|------------|------------|------------|--------------|------------|---------------|--------|---------|-----------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 124.770 | 35.59 | -7.91 | 43.50 | 50.38 | 10.25 | 1.86 | 26.90 | Peak | --- | --- |
| 2 | 245.730 | 33.71 | -12.29 | 46.00 | 46.57 | 11.16 | 2.58 | 26.60 | Peak | --- | --- |
| 3 ! | 250.050 | 40.66 | -5.34 | 46.00 | 53.31 | 11.34 | 2.61 | 26.60 | Peak | --- | --- |



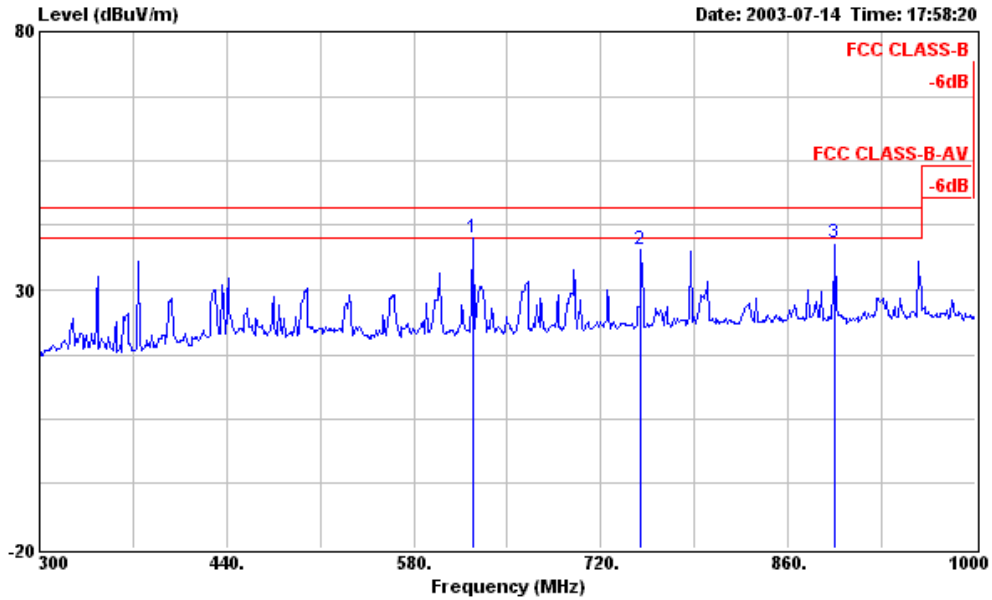
Site : site
 Condition : 3m 03CH03-MAT HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH06 2437MHz
 : 1.5m+18dBi Patch

| | Over | Limit | Read | Probe | Cable | Preamp | Ant | Table | | | |
|------|---------|-------|--------|-------|--------|--------|--------|--------|------|-----|-----|
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg | |
| 1 ! | 374.200 | 42.60 | -3.40 | 46.00 | 52.32 | 13.82 | 3.50 | 27.04 | Peak | 100 | 52 |
| 2 | 624.100 | 38.01 | -7.99 | 46.00 | 44.13 | 17.46 | 4.42 | 28.00 | Peak | --- | --- |
| 3 | 750.100 | 37.11 | -8.89 | 46.00 | 41.76 | 18.40 | 4.95 | 28.00 | Peak | --- | --- |



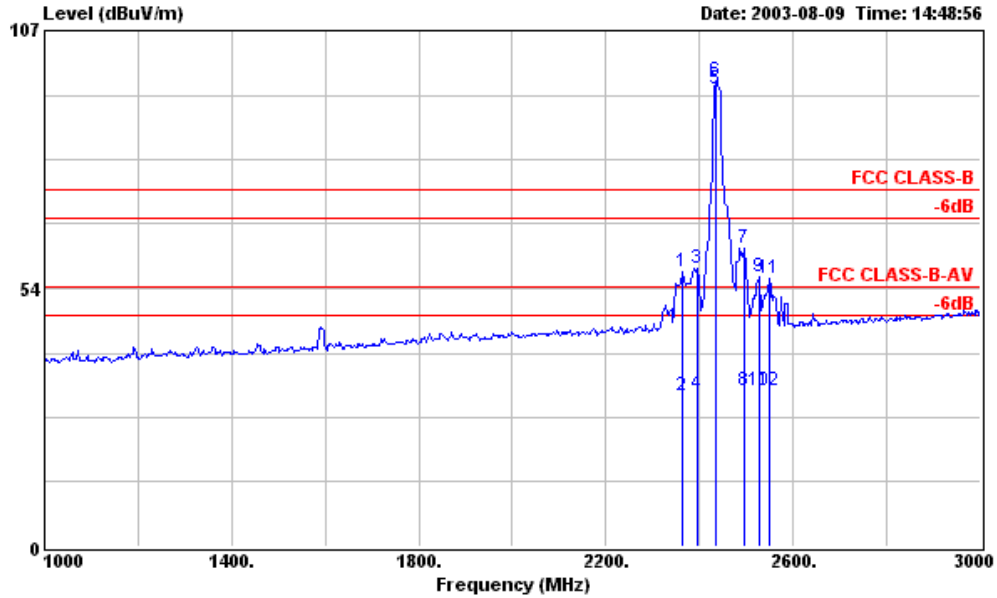
Site : site
 Condition : 3m 03CH03-MAT VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH06 2437MHz
 : 1.5m+18dBi Patch

| Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table | |
|------|---------|-------|--------|-------|-------|-------|--------|--------|------|-------|-----|
| | | | | | | | | | Pos | Pos | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg | |
| 1 | 124.770 | 33.02 | -10.48 | 43.50 | 47.81 | 10.25 | 1.86 | 26.90 | Peak | --- | --- |
| 2 | 140.970 | 31.30 | -12.20 | 43.50 | 45.89 | 10.18 | 2.07 | 26.84 | Peak | --- | --- |
| 3 | 250.050 | 34.24 | -11.76 | 46.00 | 46.89 | 11.34 | 2.61 | 26.60 | Peak | --- | --- |



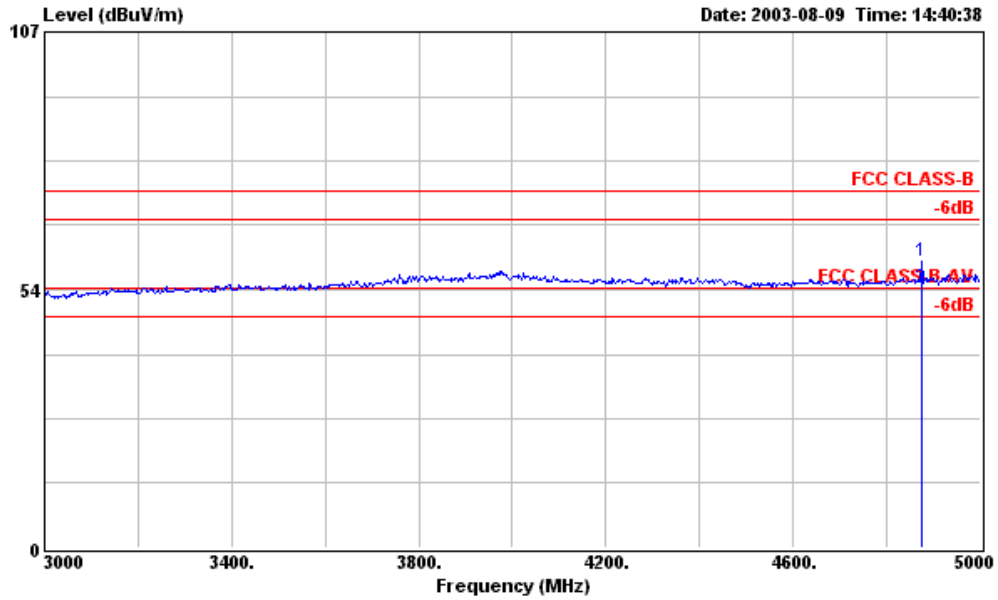
Site : site
 Condition : 3m 03CH03-MAT VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH06 2437MHz
 : 1.5m+18dBi Patch

| | Over | Limit | Read | Probe | Cable | Preamp | | Ant | Table | |
|------|---------|-------|--------|-------|--------|--------|--------|--------|-------|-----|
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | |
| 1 | 624.100 | 39.98 | -6.02 | 46.00 | 46.10 | 17.46 | 4.42 | 28.00 | Peak | --- |
| 2 | 750.100 | 37.77 | -8.23 | 46.00 | 42.42 | 18.40 | 4.95 | 28.00 | Peak | --- |
| 3 | 895.000 | 38.93 | -7.07 | 46.00 | 41.97 | 19.39 | 5.38 | 27.81 | Peak | --- |

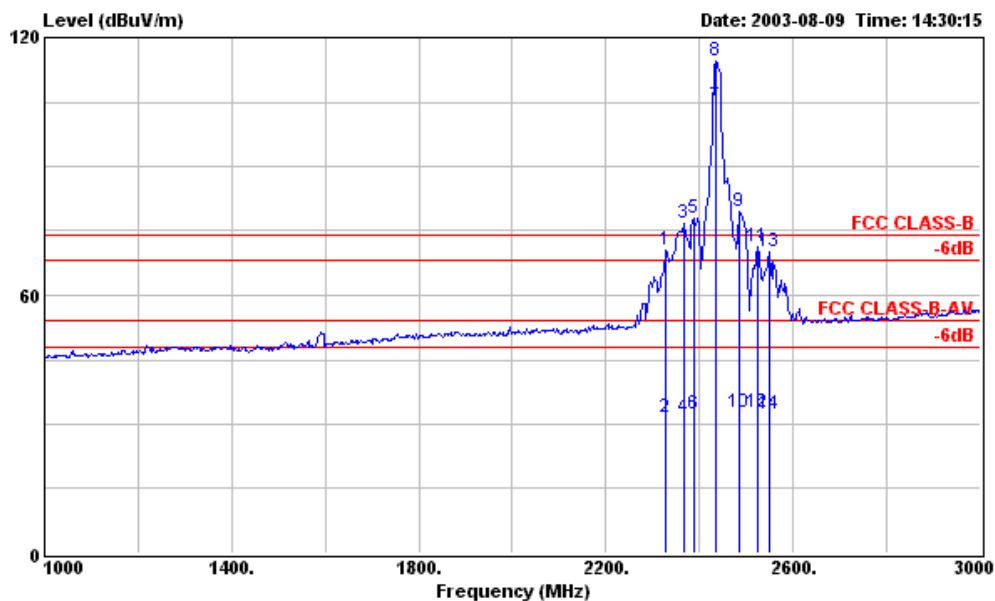


Site : 03CH03-HY
 Condition : 3m HORN-ANT-6741 HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH06 2437MHz
 : 1.5m+18dBi Patch

| | Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|----|----------|--------|--------|--------|-------|--------|-------|--------|---------|-----|-------|
| | MHz | dBuV/m | Limit | Line | Level | Factor | Loss | Factor | | Pos | Pos |
| | | | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 2364.000 | 57.07 | -16.93 | 74.00 | 49.92 | 28.15 | 6.16 | 27.16 | Peak | --- | --- |
| 2 | 2364.000 | 31.23 | -22.77 | 54.00 | 24.08 | 28.15 | 6.16 | 27.16 | Average | --- | --- |
| 3 | 2396.000 | 57.76 | -16.24 | 74.00 | 50.51 | 28.21 | 6.20 | 27.16 | Peak | --- | --- |
| 4 | 2396.000 | 31.54 | -22.46 | 54.00 | 24.29 | 28.21 | 6.20 | 27.16 | Average | --- | --- |
| 7 | 2494.000 | 61.93 | -12.07 | 74.00 | 54.36 | 28.42 | 6.33 | 27.18 | Peak | --- | --- |
| 8 | 2494.000 | 32.31 | -21.69 | 54.00 | 24.74 | 28.42 | 6.33 | 27.18 | Average | --- | --- |
| 9 | 2526.000 | 55.80 | -18.20 | 74.00 | 48.07 | 28.52 | 6.39 | 27.18 | Peak | --- | --- |
| 10 | 2526.000 | 32.28 | -21.72 | 54.00 | 24.55 | 28.52 | 6.39 | 27.18 | Average | --- | --- |
| 11 | 2550.000 | 55.45 | -18.55 | 74.00 | 47.61 | 28.59 | 6.43 | 27.18 | Peak | --- | --- |
| 12 | 2550.000 | 32.17 | -21.83 | 54.00 | 24.33 | 28.59 | 6.43 | 27.18 | Average | --- | --- |

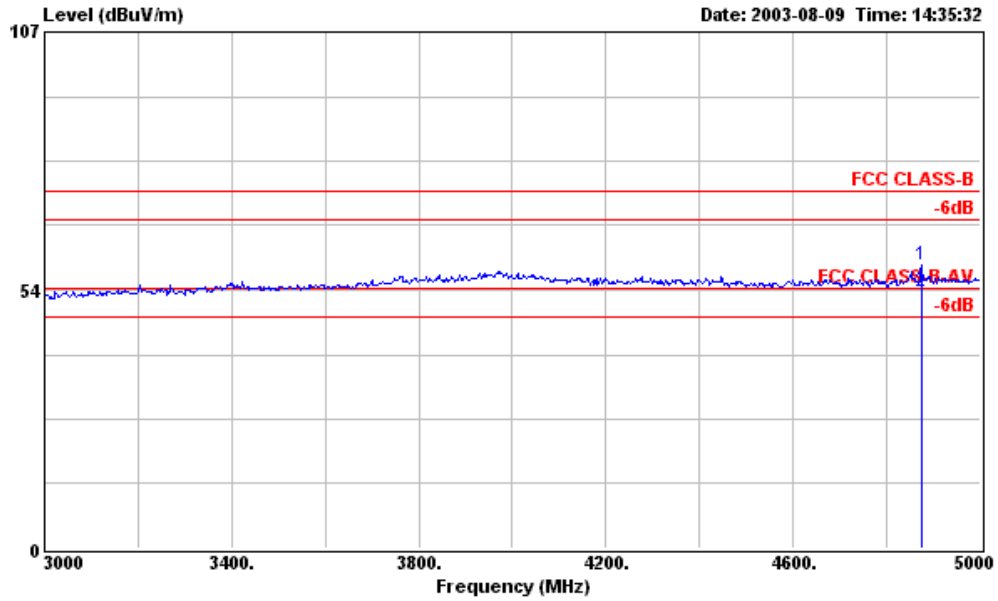


Site : 03CH03-HY
Condition : 3m HORN-ANT-6741 HORIZONTAL
EUT : Wireless 2.4G AP
Power : 110W/60Hz
MODEL : ME-103
MEMO : TX CH06 2437MHz
: 1.5m+18dBi Patch



Site : 03CH03-HY
 Condition : 3m HORN-ANT-6741 VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH06 2437MHz
 : 1.5m+18dBi Patch

| | Over | Limit | Read | Probe | Cable | Preamp | Ant | Table | | | |
|------|----------|-------|--------|-------|--------|--------|--------|--------|---------|-----|-----|
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg | |
| 1 ! | 2326.000 | 70.56 | -3.44 | 74.00 | 63.53 | 28.07 | 6.11 | 27.15 | Peak | --- | --- |
| 2 | 2326.000 | 31.55 | -22.45 | 54.00 | 24.52 | 28.07 | 6.11 | 27.15 | Average | --- | --- |
| 3 X | 2366.000 | 76.91 | 2.91 | 74.00 | 69.76 | 28.15 | 6.16 | 27.16 | Peak | --- | --- |
| 4 | 2366.000 | 31.63 | -22.37 | 54.00 | 24.48 | 28.15 | 6.16 | 27.16 | Average | --- | --- |
| 5 X | 2388.000 | 78.02 | 4.02 | 74.00 | 70.79 | 28.20 | 6.19 | 27.16 | Peak | --- | --- |
| 6 | 2388.000 | 32.15 | -21.85 | 54.00 | 24.92 | 28.20 | 6.19 | 27.16 | Average | --- | --- |
| 9 X | 2486.000 | 79.37 | 5.37 | 74.00 | 71.82 | 28.40 | 6.32 | 27.17 | Peak | --- | --- |
| 10 | 2486.000 | 32.77 | -21.23 | 54.00 | 25.22 | 28.40 | 6.32 | 27.17 | Average | --- | --- |
| 11 ! | 2524.000 | 71.46 | -2.54 | 74.00 | 63.74 | 28.51 | 6.39 | 27.18 | Peak | --- | --- |
| 12 | 2524.000 | 32.68 | -21.32 | 54.00 | 24.96 | 28.51 | 6.39 | 27.18 | Average | --- | --- |
| 13 ! | 2548.000 | 70.10 | -3.90 | 74.00 | 62.26 | 28.59 | 6.43 | 27.18 | Peak | --- | --- |
| 14 | 2548.000 | 32.33 | -21.67 | 54.00 | 24.49 | 28.59 | 6.43 | 27.18 | Average | --- | --- |



Site : 03CH03-HY
Condition : 3m HORN-ANT-6741 VERTICAL
EUT : Wireless 2.4G AP
Power : 110V/60Hz
MODEL : ME-103
MEMO : TX CH06 2437MHz
: 1.5m+18dBi Patch

➤ For 5GHz ~ 25GHz

Remark: Frequency from 5000MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

| Frequency (MHz) | Antenna Polarity | Cable Factor | Reading Loss | Limits (dBuV) | Emission (dBuV/m) | Level (uV/m) | Margin (dB) | Detect Mode | | |
|----------------------|---------------------|-----------------|-----------------|--------------------|------------------------|-------------------|------------------|----------------|--------|---------------|
| 2436.000 | H | 28.29 | 6.26 | 60.24 | - | - | 94.79 | 54890.86 | A.V. | |
| 2436.000 | H | 28.29 | 6.26 | 62.19 | - | - | 96.74 | 68706.84 | Peak | |
| 4876.000 | H | 33.17 | 9.09 | 17.21 | 74.00 | 5011.87 | 59.47 | 940.81 | -14.53 | Peak |
| 4876.000 | H | 33.17 | 9.09 | 11.62 | 54.00 | 501.19 | 53.88 | 494.31 | -0.12 | A.V. |
| 2436.000 | V | 28.29 | 6.26 | 69.57 | - | - | 104.12 | 160694.13 | | A.V. |
| 2436.000 | V | 28.29 | 6.26 | 80.04 | - | - | 114.59 | 536413.87 | | Peak |
| 4876.000 | V | 33.17 | 9.09 | 16.62 | 74.00 | 5011.87 | 58.88 | 879.02 | -15.12 | Peak |
| 4876.000 | V | 33.17 | 9.09 | 10.97 | 54.00 | 501.19 | 53.23 | 458.67 | -0.77 | A.V. |
| 7311.000 | V/H | | | | | | - | | | Peak, A.V. |
| 9748.000 | V/H | | | | | | - | | | Peak, A.V. |
| 12185.000 | V/H | | | | | | - | | | Peak, A.V. |
| 14622.000 | V/H | | | | | | - | | | Peak, A.V. |
| 17059.000 | V/H | | | | | | - | | | Peak, A.V. |
| 19496.000 | V/H | | | | | | - | | | Peak, A.V. |
| 21933.000 | V/H | | | | | | - | | | Peak, A.V. |
| 24370.000 | V/H | | | | | | - | | | Peak, A.V. |

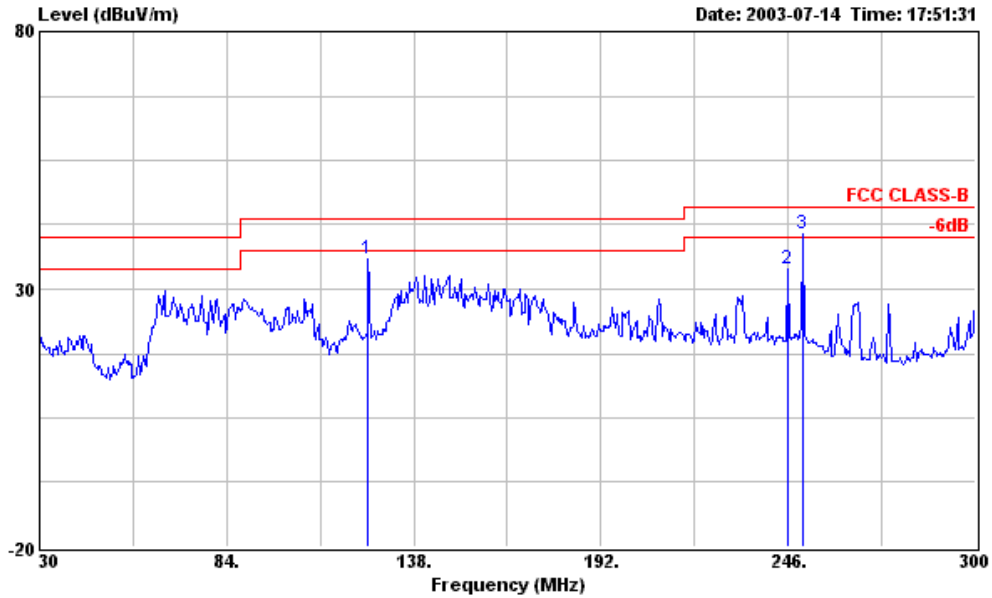
Remark: The emission emitted by the EUT is too low to be measured except the emission listed above

Test Engineer: Jay
Jay Zhong

- Test Mode: Mode 12
- Test Distance: 3 M
- Temperature: 29.9 °C
- Relative Humidity: 72 %
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading: Probe Factor + Cable Loss + Read Level - Preamp Factor = Level

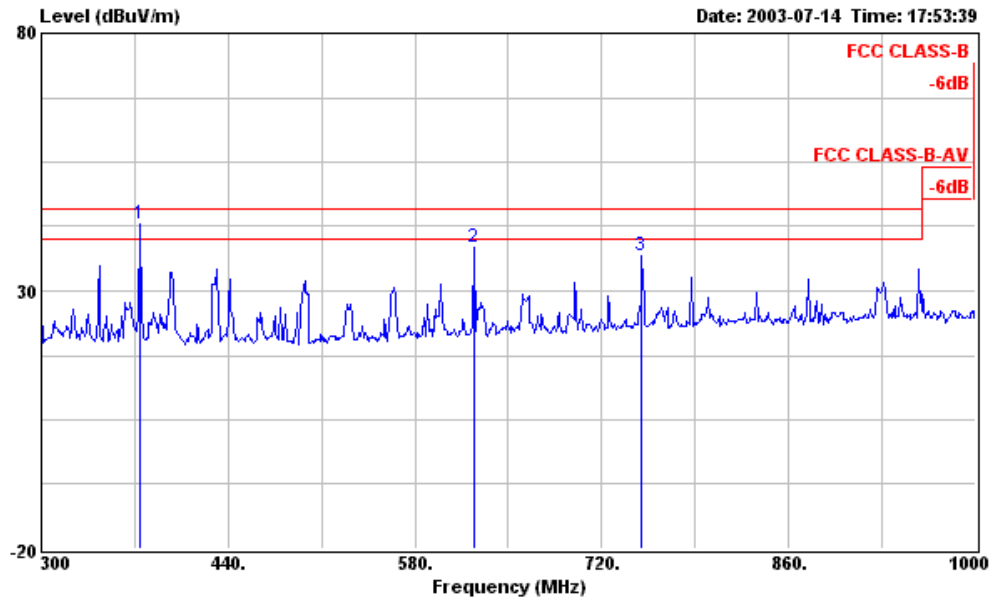
■ The test was passed at the minimum margin that marked under gray area in the following table, and its antenna height is 1.03 m, turn table degree is 82°

■ Spurious Emission



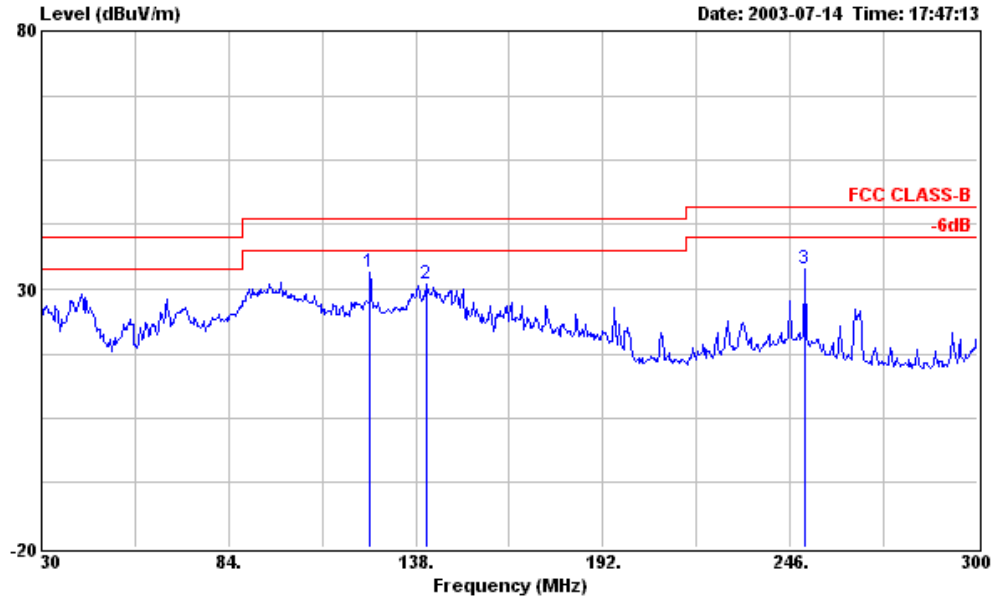
Site : site
 Condition : 3m 03CH03-MAT HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+18dBi Patch

| | Over | Limit | Read | Probe | Cable | Preamp | | Ant | Table | | |
|------|---------|-------|--------|-------|--------|--------|--------|-------|-------|-----|-----|
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | cm | deg | | |
| 1 | 124.770 | 35.81 | -7.69 | 43.50 | 50.60 | 10.25 | 1.86 | 26.90 | Peak | --- | --- |
| 2 | 245.730 | 34.04 | -11.96 | 46.00 | 46.90 | 11.16 | 2.58 | 26.60 | Peak | --- | --- |
| 3 ! | 250.050 | 40.60 | -5.40 | 46.00 | 53.25 | 11.34 | 2.61 | 26.60 | Peak | --- | --- |



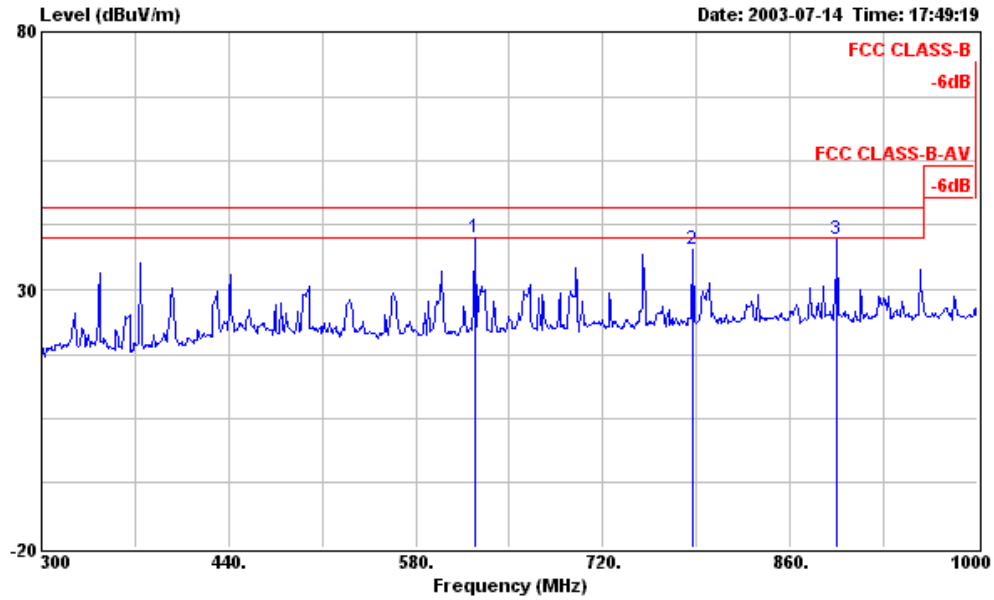
Site : site
 Condition : 3m 03CH03-MAT HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+18dBi Patch

| | Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|-----|---------|--------|-------|--------|-------|-------|-------|--------|--------|-----|-------|
| | | | | | | | | | | | |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 ! | 374.200 | 42.91 | -3.09 | 46.00 | 52.63 | 13.82 | 3.50 | 27.04 | Peak | 100 | 63 |
| 2 | 624.100 | 38.31 | -7.69 | 46.00 | 44.43 | 17.46 | 4.42 | 28.00 | Peak | --- | --- |
| 3 | 750.100 | 36.83 | -9.17 | 46.00 | 41.48 | 18.40 | 4.95 | 28.00 | Peak | --- | --- |



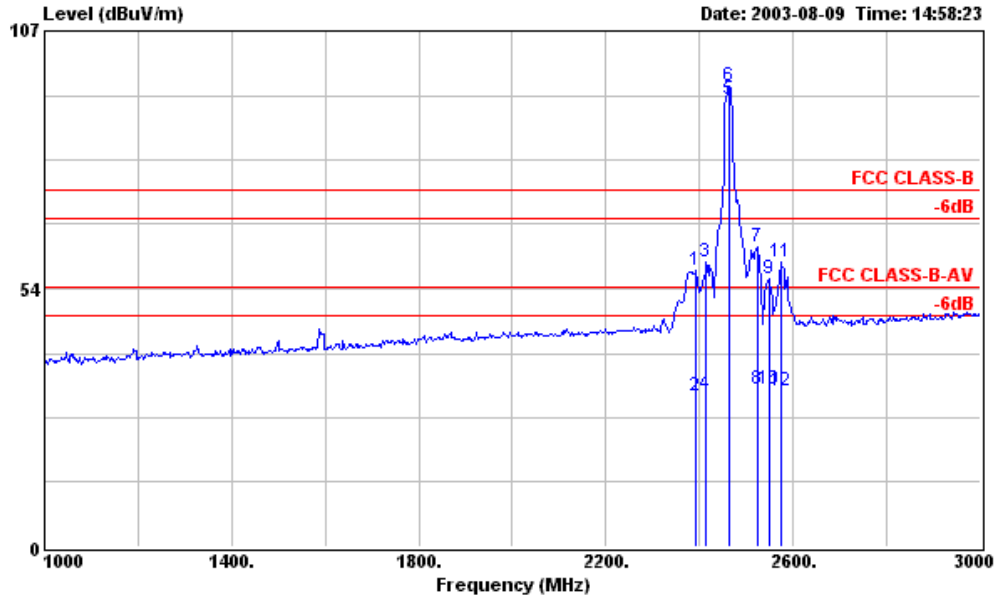
Site : site
 Condition : 3m 03CH03-MAT VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110W/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+18dBi Patch

| Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|------|---------|-------|--------|-------|-------|-------|--------|------------|-----|-------|
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 124.770 | 33.14 | -10.36 | 43.50 | 47.93 | 10.25 | 1.86 | 26.90 Peak | --- | --- |
| 2 | 140.970 | 30.97 | -12.53 | 43.50 | 45.56 | 10.18 | 2.07 | 26.84 Peak | --- | --- |
| 3 | 250.050 | 33.94 | -12.06 | 46.00 | 46.59 | 11.34 | 2.61 | 26.60 Peak | --- | --- |



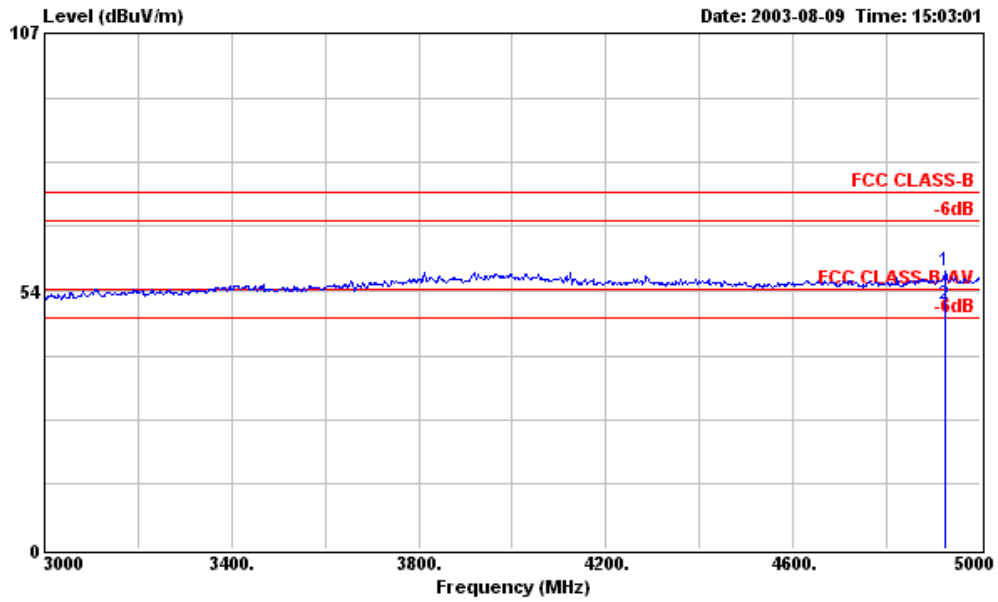
Site : site
 Condition : 3m 03CH03-MAT VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+18dBi Patch

| Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table | |
|------|---------|-------|--------|-------|-------|-------|--------|--------|------|-------|------|
| | | Limit | Line | | | | | | | | Loss |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg | |
| 1 | 624.100 | 39.98 | -6.02 | 46.00 | 46.10 | 17.46 | 4.42 | 28.00 | Peak | --- | --- |
| 2 | 786.500 | 37.66 | -8.34 | 46.00 | 41.95 | 18.68 | 5.03 | 28.00 | Peak | --- | --- |
| 3 | 895.000 | 39.73 | -6.27 | 46.00 | 42.77 | 19.39 | 5.38 | 27.81 | Peak | --- | --- |

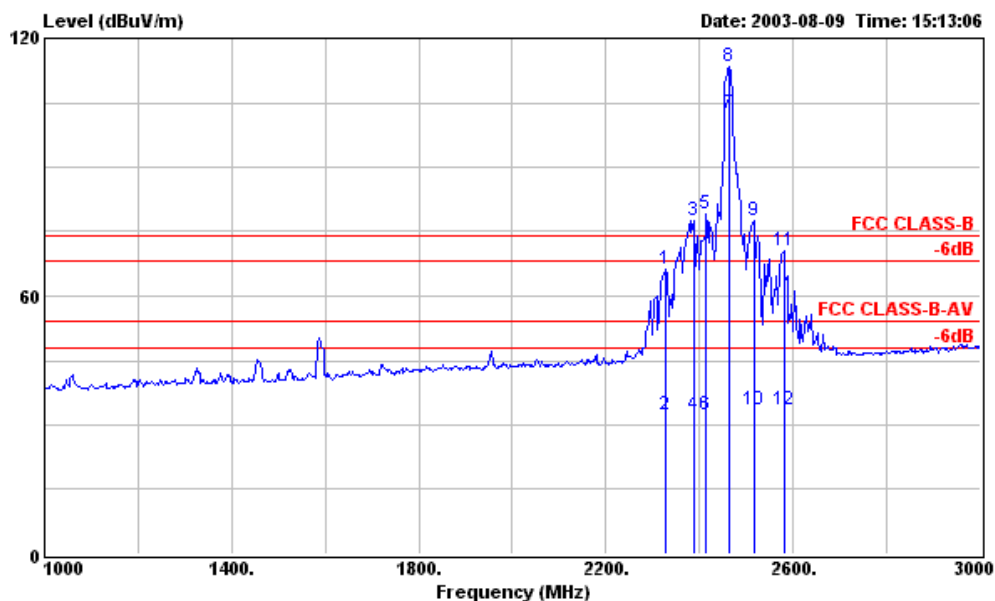


Site : 03CH03-HY
 Condition : 3m HORN-ANT-6741 HORIZONTAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+18dBi Patch

| | Freq | Level | Over | Limit | Read | Probe | Cable | Preamp | Remark | Ant | Table |
|----|----------|--------|--------|--------|-------|-------|-------|--------|---------|-----|-------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg |
| 1 | 2390.000 | 57.41 | -16.59 | 74.00 | 50.17 | 28.20 | 6.20 | 27.16 | Peak | --- | --- |
| 2 | 2390.000 | 31.42 | -22.58 | 54.00 | 24.18 | 28.20 | 6.20 | 27.16 | Average | --- | --- |
| 3 | 2414.000 | 58.97 | -15.03 | 74.00 | 51.65 | 28.25 | 6.23 | 27.16 | Peak | --- | --- |
| 4 | 2414.000 | 31.51 | -22.49 | 54.00 | 24.19 | 28.25 | 6.23 | 27.16 | Average | --- | --- |
| 7 | 2524.000 | 62.05 | -11.95 | 74.00 | 54.33 | 28.51 | 6.39 | 27.18 | Peak | --- | --- |
| 8 | 2524.000 | 32.68 | -21.32 | 54.00 | 24.96 | 28.51 | 6.39 | 27.18 | Average | --- | --- |
| 9 | 2548.000 | 55.58 | -18.42 | 74.00 | 47.74 | 28.59 | 6.43 | 27.18 | Peak | --- | --- |
| 10 | 2548.000 | 32.52 | -21.48 | 54.00 | 24.68 | 28.59 | 6.43 | 27.18 | Average | --- | --- |
| 11 | 2574.000 | 58.96 | -15.04 | 74.00 | 51.01 | 28.67 | 6.47 | 27.19 | Peak | --- | --- |
| 12 | 2574.000 | 32.40 | -21.60 | 54.00 | 24.45 | 28.67 | 6.47 | 27.19 | Average | --- | --- |

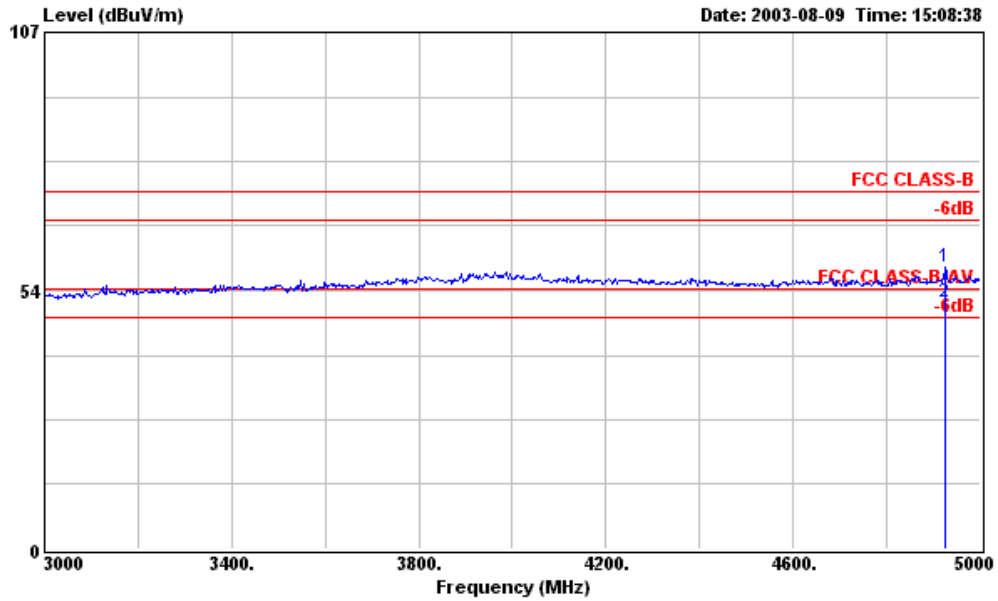


Site : 03CH03-HY
Condition : 3m HORN-ANT-6741 HORIZONTAL
EUT : Wireless 2.4G AP
Power : 110V/60Hz
MODEL : ME-103
MEMO : TX CH11 2462MHz
: 1.5m+18dBi Patch



Site : 03CH03-HY
 Condition : 3m HORN-ANT-6741 VERTICAL
 EUT : Wireless 2.4G AP
 Power : 110V/60Hz
 MODEL : ME-103
 MEMO : TX CH11 2462MHz
 : 1.5m+18dBi Patch

| | Over | Limit | Read | Probe | Cable | Preamp | Ant | Table | | | |
|------|----------|-------|--------|-------|--------|--------|--------|--------|---------|-----|-----|
| Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dB | dB | dB | | cm | deg | |
| 1 | 2326.000 | 66.11 | -7.89 | 74.00 | 59.08 | 28.07 | 6.11 | 27.15 | Peak | --- | --- |
| 2 | 2326.000 | 32.25 | -21.75 | 54.00 | 25.22 | 28.07 | 6.11 | 27.15 | Average | --- | --- |
| 3 X | 2388.000 | 77.54 | 3.54 | 74.00 | 70.31 | 28.20 | 6.19 | 27.16 | Peak | --- | --- |
| 4 | 2388.000 | 32.31 | -21.69 | 54.00 | 25.08 | 28.20 | 6.19 | 27.16 | Average | --- | --- |
| 5 X | 2414.000 | 78.92 | 4.92 | 74.00 | 71.60 | 28.25 | 6.23 | 27.16 | Peak | --- | --- |
| 6 | 2414.000 | 32.53 | -21.47 | 54.00 | 25.21 | 28.25 | 6.23 | 27.16 | Average | --- | --- |
| 9 X | 2516.000 | 77.57 | 3.57 | 74.00 | 69.89 | 28.49 | 6.37 | 27.18 | Peak | --- | --- |
| 10 | 2516.000 | 33.42 | -20.58 | 54.00 | 25.74 | 28.49 | 6.37 | 27.18 | Average | --- | --- |
| 11 ! | 2580.000 | 70.46 | -3.54 | 74.00 | 62.47 | 28.69 | 6.49 | 27.19 | Peak | --- | --- |
| 12 | 2580.000 | 33.36 | -20.64 | 54.00 | 25.37 | 28.69 | 6.49 | 27.19 | Average | --- | --- |



Site : 03CH03-HY
Condition : 3m HORN-ANT-6741 VERTICAL
EUT : Wireless 2.4G AP
Power : 110V/60Hz
MODEL : ME-103
MEMO : TX CH11 2462MHz
: 1.5m+18dBi Patch

➤ For 5GHz ~ 25GHz

Remark: Frequency from 5000MHz to 25000MHz, the emission emitted by the EUT is too low to be measured

■ Field strength of fundamental and harmonics

| Frequency (MHz) | Antenna Polarity | Cable Factor | Reading Loss | Limits (dBuV) | Emission (dBuV/m) | Level (uV/m) | Margin (dB) | Detect Mode | | |
|----------------------|---------------------|-----------------|-----------------|--------------------|------------------------|-------------------|------------------|----------------|--------|---------------|
| 2462.000 | H | 28.35 | 6.29 | 57.98 | - | - | 92.62 | 42756.29 | A.V. | |
| 2462.000 | H | 28.35 | 6.29 | 60.87 | - | - | 95.51 | 59634.83 | Peak | |
| 4926.000 | H | 33.28 | 9.12 | 15.16 | 74.00 | 5011.87 | 57.56 | 755.09 | -16.44 | Peak |
| 4926.000 | H | 33.28 | 9.12 | 8.28 | 54.00 | 501.19 | 50.68 | 341.98 | -3.32 | A.V. |
| 2462.000 | V | 28.35 | 6.29 | 67.70 | - | - | 102.34 | 130918.19 | | A.V. |
| 2462.000 | V | 28.35 | 6.29 | 78.55 | - | - | 113.19 | 456562.25 | | Peak |
| 4926.000 | V | 33.28 | 9.12 | 15.87 | 74.00 | 5011.87 | 58.27 | 819.41 | -15.73 | Peak |
| 4926.000 | V | 33.28 | 9.12 | 8.57 | 54.00 | 501.19 | 50.97 | 353.59 | -3.03 | A.V. |
| 7386.000 | V/H | | | | | | - | | | Peak, A.V. |
| 9848.000 | V/H | | | | | | - | | | Peak, A.V. |
| 12310.000 | V/H | | | | | | - | | | Peak, A.V. |
| 14772.000 | V/H | | | | | | - | | | Peak, A.V. |
| 17234.000 | V/H | | | | | | - | | | Peak, A.V. |
| 19696.000 | V/H | | | | | | - | | | Peak, A.V. |
| 22158.000 | V/H | | | | | | - | | | Peak, A.V. |
| 24620.000 | V/H | | | | | | - | | | Peak, A.V. |

Remark: The emission emitted by the EUT is too low to be measured except the emission listed above

Test Engineer: Jay
Jay Zhong

5.7. Band Edges Measurement

5.7.1. Measuring Instruments

As described in chapter 7 of this test report.

5.7.2. Test Procedure

1. The transmitter output was connected to the spectrum analyzer via a low lose cable.
2. Set both RBW and VBW of spectrum analyzer to 100KHz with convenient frequency span including 100 KHz bandwidth from band edge.
3. The band edges was measured and recorded.

5.7.3. Test Result

- Test Result in lower band (Channel 1) PASS (PLOT1)
- Test Result in higher band(Channel 11) PASS (PLOT2)

5.7.4. Note on Band edge Emission

Antenna: 4dBi Triband

| Polarity | Channel | The emission of carrier power strength (dBμV/m) | The maximum field strength in restrict band (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Result |
|----------|---------|---|--|----------------|-------------|---------|
| H | 01 | 101.81 | 52.21 | 74.00 | -21.79 | Peak |
| H | 01 | 96.74 | 47.14 | 54.00 | -6.86 | Average |
| V | 01 | 103.91 | 54.31 | 74.00 | -19.69 | Peak |
| V | 01 | 99.83 | 50.23 | 54.00 | -3.77 | Average |
| H | 11 | 98.97 | 44.91 | 74.00 | -29.09 | Peak |
| H | 11 | 93.89 | 39.83 | 54.00 | -14.17 | Average |
| V | 11 | 102.21 | 48.15 | 74.00 | -25.85 | Peak |
| V | 11 | 98.15 | 44.09 | 54.00 | -9.91 | Average |

Antenna: 5dBi Ceiling

| Polarity | Channel | The emission of carrier power strength (dBμV/m) | The maximum field strength in restrict band (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Result |
|----------|---------|---|--|----------------|-------------|---------|
| H | 01 | 101.36 | 51.76 | 74.00 | -22.24 | Peak |
| H | 01 | 95.02 | 45.42 | 54.00 | -8.58 | Average |
| V | 01 | 105.12 | 55.52 | 74.00 | -18.48 | Peak |
| V | 01 | 100.30 | 50.70 | 54.00 | -3.30 | Average |
| H | 11 | 98.89 | 44.83 | 74.00 | -29.17 | Peak |
| H | 11 | 92.13 | 38.07 | 54.00 | -15.93 | Average |
| V | 11 | 105.14 | 51.08 | 74.00 | -22.92 | Peak |
| V | 11 | 100.17 | 46.11 | 54.00 | -7.89 | Average |

Antenna: 9dBi Dipole

| Polarity | Channel | The emission of carrier power strength (dBμV/m) | The maximum field strength in restrict band (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Result |
|----------|---------|---|--|----------------|-------------|---------|
| H | 01 | 100.74 | 51.14 | 74.00 | -22.86 | Peak |
| H | 01 | 96.09 | 46.49 | 54.00 | -7.51 | Average |
| V | 01 | 106.51 | 56.91 | 74.00 | -17.09 | Peak |
| V | 01 | 103.47 | 53.87 | 54.00 | -0.13 | Average |
| H | 11 | 98.56 | 44.50 | 74.00 | -29.50 | Peak |
| H | 11 | 94.38 | 40.32 | 54.00 | -13.68 | Average |
| V | 11 | 109.69 | 55.63 | 74.00 | -18.37 | Peak |
| V | 11 | 101.37 | 47.31 | 54.00 | -6.69 | Average |

Antenna: 18dBi Patch

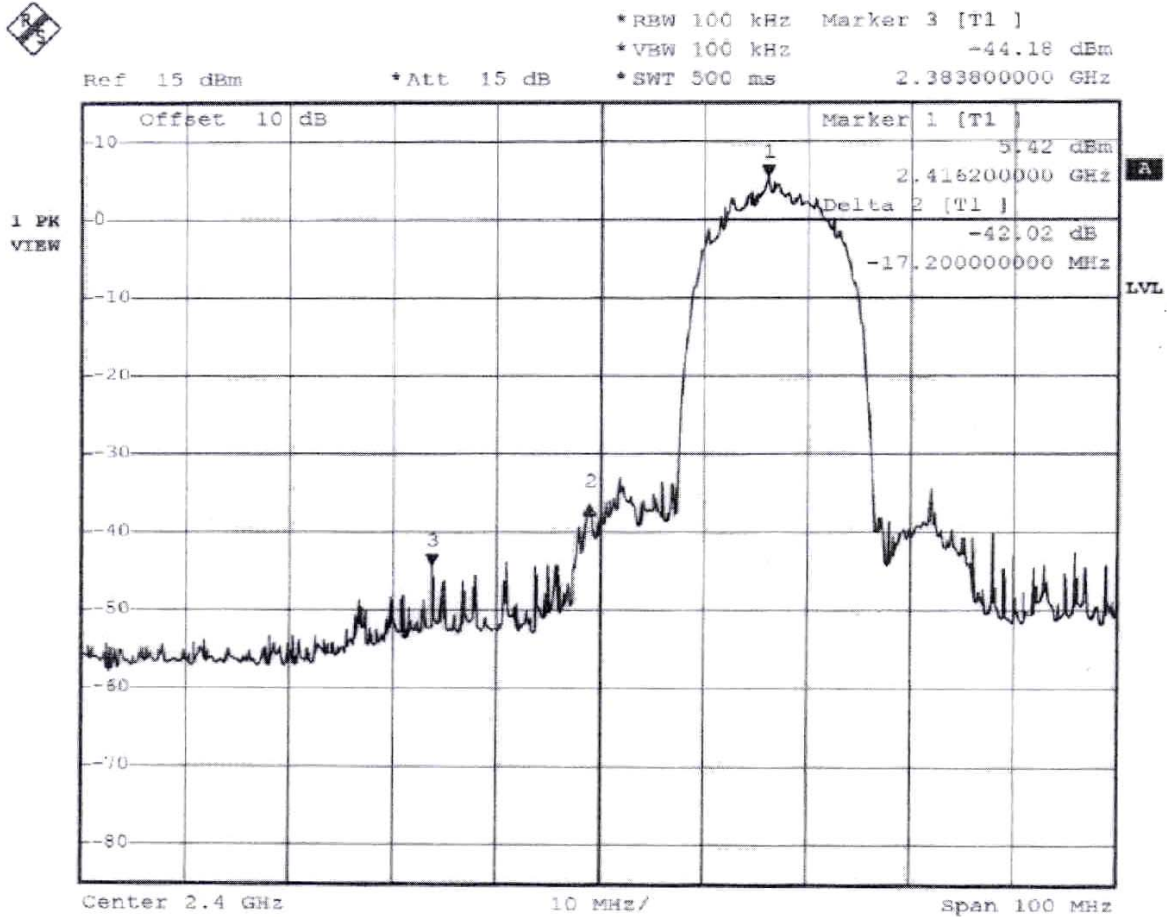
| Polarity | Channel | The emission of carrier power strength (dB μ V/m) | The maximum field strength in restrict band (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|----------|---------|--|---|-------------------------|----------------|---------|
| H | 01 | 94.44 | 44.84 | 74.00 | -29.16 | Peak |
| H | 01 | 92.34 | 42.74 | 54.00 | -11.26 | Average |
| V | 01 | 114.11 | 64.51 | 74.00 | -9.49 | Peak |
| V | 01 | 103.42 | 53.82 | 54.00 | -0.18 | Average |
| H | 11 | 95.51 | 41.45 | 74.00 | -32.55 | Peak |
| H | 11 | 92.62 | 38.56 | 54.00 | -15.44 | Average |
| V | 11 | 113.19 | 59.13 | 74.00 | -14.87 | Peak |
| V | 11 | 102.34 | 48.28 | 54.00 | -5.72 | Average |

The band edge emission plot1 on page 147 shows 49.60dB delta between carrier maximum power and local maximum emission in the restricted band (2.310~2.390 GHz).

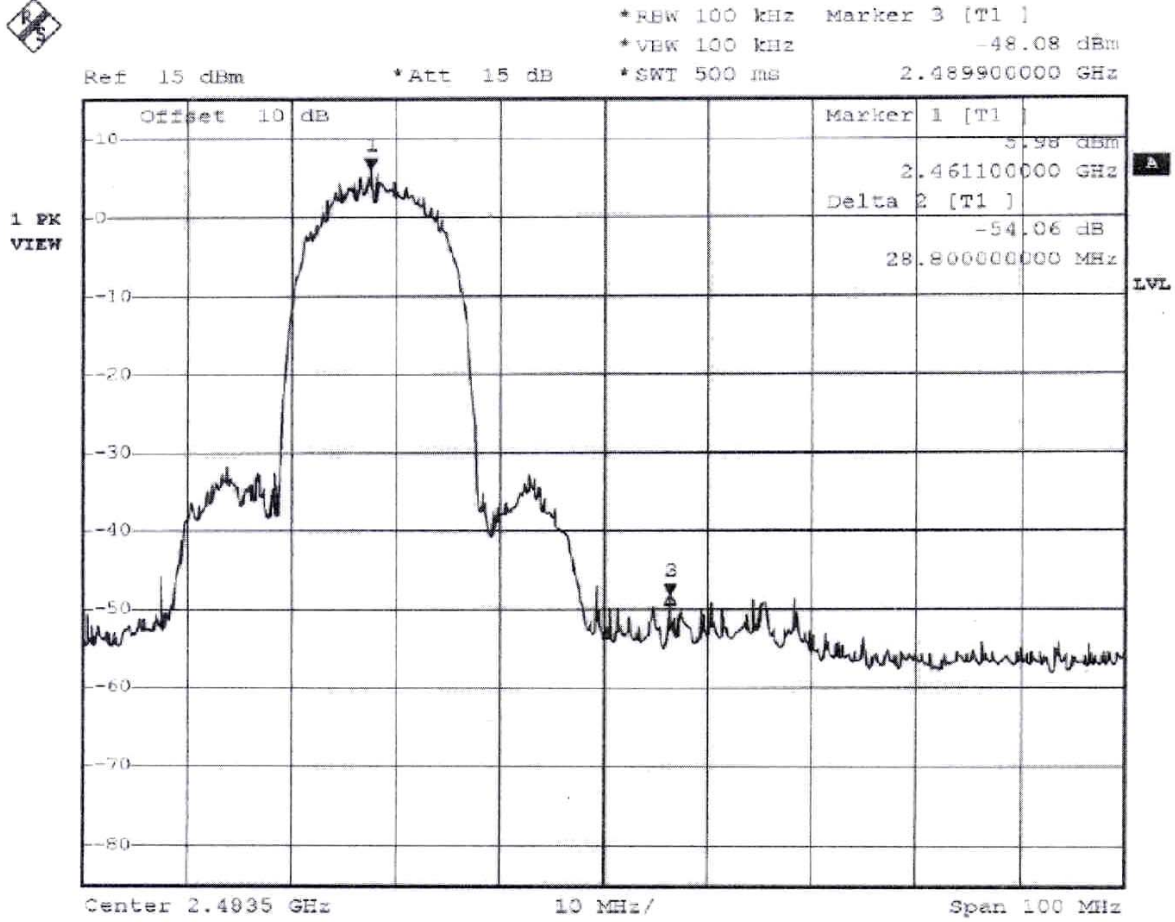
The band edge emission plot2 on page 148 shows 54.06dB delta between carrier maximum power and local maximum emission in the restricted band (2.4835~2.5 GHz).

The spectrum analyzer plots are attached as below

Plot1 (Channel 1)



Plot2 (Channel 11) □



Comments □ All emissions in any 100kHz bandwidth outside the band edge are attenuated more then 20dB from the carrier.

5.8. Antenna Requirements

The EUT use a detachable antenna via SMA-reversed external connector. It is considered meet antenna requirement of FCC.

5.8.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.
3Q¹⁰⁰

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

5.8.2. Antenna Connected Construction

The maximum Gain antenna used in this product is:

- ANT24P2: Dipole Antenna.
- ANT24P5: Dipole Antenna
- ANT24P7: Dipole Antenna
- ANT24P9: Dipole Antenna
- ANT2405: Ceiling Antenna
- ANT24S5: Style Patch Antenna
- ANT24S4: Style Triband Antenna
- ANT24D12: Patch Antenna
- ANT24D18: Patch Antenna

The antenna connector type is SMA-reversed The coaxial cable of the antenna is fixed to the antenna.

6. Antenna Factor & Cable Loss

<Mode 1~3>

| Frequency (MHz) | Antenna Factor (dB) | Cable Loss (dB) | Frequency (MHz) | Antenna Factor (dB) | Cable Loss (dB) |
|--------------------|------------------------|--------------------|--------------------|------------------------|--------------------|
| 30 | 15.35 | 1.00 | 1000 | 24.30 | 3.89 |
| 35 | 13.63 | 1.08 | 2000 | 31.10 | 5.41 |
| 40 | 11.11 | 1.18 | 3000 | 29.60 | 6.92 |
| 45 | 10.59 | 1.24 | 4000 | 30.80 | 8.24 |
| 50 | 6.47 | 1.30 | 5000 | 34.20 | 9.22 |
| 55 | 5.83 | 1.38 | 6000 | 33.30 | 10.25 |
| 60 | 5.18 | 1.44 | 7000 | 37.80 | 11.61 |
| 65 | 4.81 | 1.52 | 8000 | 39.40 | 11.78 |
| 70 | 4.43 | 1.59 | 9000 | 38.40 | 12.59 |
| 75 | 5.10 | 1.68 | 10000 | 38.90 | 13.84 |
| 80 | 5.91 | 1.75 | 11000 | 41.10 | 14.64 |
| 85 | 7.33 | 1.77 | 12000 | 42.70 | 14.12 |
| 90 | 8.74 | 1.83 | 13000 | 43.90 | 16.01 |
| 95 | 9.05 | 1.85 | 14000 | 43.70 | 13.76 |
| 100 | 9.36 | 1.90 | 15000 | 43.40 | 14.30 |
| 110 | 9.65 | 2.01 | 16000 | 40.90 | 15.16 |
| 120 | 9.97 | 2.06 | 17000 | 44.40 | 15.88 |
| 130 | 10.51 | 2.16 | 18000 | 47.10 | 16.09 |
| 140 | 10.32 | 2.24 | 19000 | 37.60 | 16.98 |
| 150 | 9.42 | 2.34 | 20000 | 37.30 | 16.21 |
| 160 | 8.09 | 2.42 | 21000 | 37.00 | 20.13 |
| 170 | 7.43 | 2.56 | 22000 | 38.00 | 19.24 |
| 180 | 7.60 | 2.62 | 23000 | 38.70 | 19.64 |
| 190 | 7.43 | 2.67 | 24000 | 38.60 | 20.54 |
| 200 | 7.26 | 2.76 | 25000 | 38.90 | 20.14 |
| 220 | 9.11 | 2.92 | 14000 | 43.70 | 13.76 |
| 240 | 10.88 | 3.09 | 15000 | 43.40 | 14.30 |
| 260 | 11.75 | 3.23 | 16000 | 40.90 | 15.16 |
| 280 | 11.55 | 3.38 | 17000 | 44.40 | 15.88 |
| 300 | 11.36 | 3.51 | 18000 | 47.10 | 16.09 |
| 320 | 12.03 | 3.63 | 19000 | 37.60 | 16.98 |
| 340 | 12.69 | 3.73 | 20000 | 37.30 | 16.21 |
| 360 | 13.33 | 4.03 | 21000 | 37.00 | 20.13 |
| 380 | 14.00 | 4.00 | 22000 | 38.00 | 19.24 |
| 400 | 14.63 | 4.09 | 23000 | 38.70 | 19.64 |
| 450 | 15.33 | 4.31 | 24000 | 38.60 | 20.54 |
| 500 | 16.03 | 4.64 | 25000 | 38.90 | 20.14 |
| 550 | 16.65 | 5.09 | | | |
| 600 | 17.29 | 5.49 | | | |
| 650 | 17.64 | 5.82 | | | |
| 700 | 18.00 | 5.94 | | | |
| 750 | 18.39 | 6.16 | | | |
| 800 | 18.79 | 6.58 | | | |
| 850 | 19.10 | 6.72 | | | |
| 900 | 19.42 | 6.81 | | | |
| 950 | 19.58 | 7.10 | | | |
| 1000 | 19.75 | 7.41 | | | |

<Mode 4~12>

| Frequency (MHz) | Antenna Factor (dB) | Cable Loss (dB) | Frequency (MHz) | Antenna Factor (dB) | Cable Loss (dB) |
|-----------------|---------------------|-----------------|-----------------|---------------------|-----------------|
| 30 | 15.35 | 1.01 | 1000 | 24.30 | 3.89 |
| 35 | 13.63 | 1.04 | 2000 | 31.10 | 5.41 |
| 40 | 11.11 | 1.09 | 3000 | 29.60 | 6.92 |
| 45 | 10.59 | 1.24 | 4000 | 30.80 | 8.24 |
| 50 | 6.47 | 1.43 | 5000 | 34.20 | 9.22 |
| 55 | 5.83 | 1.39 | 6000 | 33.30 | 10.25 |
| 60 | 5.18 | 1.59 | 7000 | 37.80 | 11.61 |
| 65 | 4.81 | 1.41 | 8000 | 39.40 | 11.78 |
| 70 | 4.43 | 1.43 | 9000 | 38.40 | 12.59 |
| 75 | 5.10 | 1.55 | 10000 | 38.90 | 13.84 |
| 80 | 5.91 | 1.56 | 11000 | 41.10 | 14.64 |
| 85 | 7.33 | 1.62 | 12000 | 42.70 | 14.12 |
| 90 | 8.74 | 1.41 | 13000 | 43.90 | 16.01 |
| 95 | 9.05 | 1.81 | 14000 | 43.70 | 13.76 |
| 100 | 9.36 | 1.68 | 15000 | 43.40 | 14.30 |
| 110 | 9.65 | 1.73 | 16000 | 40.90 | 15.16 |
| 120 | 9.97 | 1.79 | 17000 | 44.40 | 15.88 |
| 130 | 10.51 | 1.93 | 18000 | 47.10 | 16.09 |
| 140 | 10.32 | 2.06 | 19000 | 37.60 | 16.98 |
| 150 | 9.42 | 2.09 | 20000 | 37.30 | 16.21 |
| 160 | 8.09 | 2.12 | 21000 | 37.00 | 20.13 |
| 170 | 7.43 | 2.12 | 22000 | 38.00 | 19.24 |
| 180 | 7.60 | 2.12 | 23000 | 38.70 | 19.64 |
| 190 | 7.43 | 2.21 | 24000 | 38.60 | 20.54 |
| 200 | 7.26 | 2.29 | 25000 | 38.90 | 20.14 |
| 220 | 9.11 | 2.42 | 14000 | 43.70 | 13.76 |
| 240 | 10.88 | 2.54 | 15000 | 43.40 | 14.30 |
| 260 | 11.75 | 2.66 | 16000 | 40.90 | 15.16 |
| 280 | 11.55 | 2.76 | 17000 | 44.40 | 15.88 |
| 300 | 11.36 | 2.85 | 18000 | 47.10 | 16.09 |
| 320 | 12.03 | 3.10 | 19000 | 37.60 | 16.98 |
| 340 | 12.69 | 3.36 | 20000 | 37.30 | 16.21 |
| 360 | 13.33 | 3.49 | 21000 | 37.00 | 20.13 |
| 380 | 14.00 | 3.50 | 22000 | 38.00 | 19.24 |
| 400 | 14.63 | 3.51 | 23000 | 38.70 | 19.64 |
| 450 | 15.33 | 3.55 | 24000 | 38.60 | 20.54 |
| 500 | 16.03 | 3.81 | 25000 | 38.90 | 20.14 |
| 550 | 16.65 | 4.05 | | | |
| 600 | 17.29 | 4.23 | | | |
| 650 | 17.64 | 4.63 | | | |
| 700 | 18.00 | 4.74 | | | |
| 750 | 18.39 | 4.95 | | | |
| 800 | 18.79 | 5.06 | | | |
| 850 | 19.10 | 5.18 | | | |
| 900 | 19.42 | 5.40 | | | |
| 950 | 19.58 | 5.91 | | | |
| 1000 | 19.75 | 5.58 | | | |

7. List of Measuring Equipments Used

<Mode 1~3>

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|----------------------------|----------------|-----------|-------------|------------------|------------------|-----------------------|
| EMC Receiver | R&S | ESCS 30 | 100132 | 9 KHz – 2.75 GHz | Jun. 03, 2002 | Conduction (CO01-HY) |
| LISN | MessTec | NNB-2/16Z | 2001-008 | 9 KHz – 30 MHz | Apr. 30, 2002 | Conduction (CO01-HY) |
| LISN (Support Unit) | MessTec | NNB-2/16Z | 2001-009 | 9 KHz – 30 MHz | Apr. 30, 2002 | Conduction (CO01-HY) |
| EMI Filter | LINDGREN | LRE-2060 | 1004 | < 450 Hz | N/A | Conduction (CO01-HY) |
| EMI Filter | LINDGREN | N6006 | 201052 | 0 ~ 60 Hz | N/A | Conduction (CO01-HY) |
| 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M | 03CH03-HY | 30MHz~1GHz 3m | Jun. 22, 2002 | Radiation (03CH03-HY) |
| Spectrum analyzer | R&S | FSP40 | 100004/040 | 9KHZ~40GHz | Aug. 07, 2002 | Radiation (03CH03-HY) |
| Receiver | SCHAFFNER | SCR 3501 | 417 | 9 KHz –1GHz | Feb. 20, 2003 | Radiation (03CH03-HY) |
| Amplifier | HP | 8447D | 2944A09072 | 100KHz – 1.3GHz | Oct. 21, 2002 | Radiation (03CH03-HY) |
| Amplifier | MITEQ | AFS44 | 879981 | 100MHz~26.5GHz | Aug. 12, 2002 | Radiation (03CH03-HY) |
| Bilog Antenna | SCHAFFNER | CBL6112B | 2687 | 30MHz –2GHz | Dec. 21, 2002 | Radiation (03CH03-HY) |
| Horn Antenna | COM-POWER | AH-118 | 10094 | 1GHz – 18GHz | Apr. 10, 2003 | Radiation (03CH03-HY) |
| Turn Table | HD | DS 420 | 420/650/00 | 0 ~ 360 degree | N/A | Radiation (03CH03-HY) |
| Antenna Mast | HD | MA 240 | 240/560/00 | 1 m - 4 m | N/A | Radiation (03CH03-HY) |
| RF Cable-R03m | Jye Bao | RG142 | CB021 | 30MHz~1GHz | Jan. 02, 2003 | Radiation (03CH03-HY) |
| Horn Antenna | Schwarzbeck | BBHA9170 | BBHA9170154 | 15GHz~40GHz | May 09, 2001 | Radiation (03CH03-HY) |
| RF Cable-HIGH | Jye Bao | RG142 | CB030-HIGH | 1GHz~29.5GHz | Mar. 14, 2003 | Radiation |
| Power meter | R&S | NRVS | 100444 | DC~40GHz | May 28, 2003 | Conducted |
| Power sensor | R&S | NRV-Z55 | 100049 | DC~40GHz | May 28, 2003 | Conducted |
| Power Sensor | R&S | NRV-Z32 | 100057 | 30MHz-6GHz | May 28, 2003 | Conducted |
| AC power source | HPC | HPA-500W | HPA-9100024 | AC 0~300V | May 27, 2003 | Conducted |
| Temp. and Humidity Chamber | KSON | THS-C3L | 612 | N/A | Oct. 02, 2002 | Conducted |

- Calibration Interval of instruments listed above is one year.
- Calibration Interval of Horn Antenna, BBHA9170, is three years.

<Mode 4~12>

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|--------------------------|----------------|-----------|-------------|------------------|------------------|-----------------------|
| EMC Receiver | R&S | ESCS 30 | 100132 | 9 KHz – 2.75 GHz | Jun. 03, 2002 | Conduction (CO01-HY) |
| LISN | MessTec | NNB-2/16Z | 2001-008 | 9 KHz – 30 MHz | Apr. 30, 2002 | Conduction (CO01-HY) |
| LISN (Support Unit) | MessTec | NNB-2/16Z | 2001-009 | 9 KHz – 30 MHz | Apr. 30, 2002 | Conduction (CO01-HY) |
| EMI Filter | LINDGREN | LRE-2060 | 1004 | < 450 Hz | N/A | Conduction (CO01-HY) |
| EMI Filter | LINDGREN | N6006 | 201052 | 0 ~ 60 Hz | N/A | Conduction (CO01-HY) |
| 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M | 03CH03-HY | 30MHz~1GHz 3m | Jun. 21, 2003 | Radiation (03CH03-HY) |
| Spectrum analyzer | R&S | FSP40 | 100004/040 | 9KHZ~40GHz | Aug. 07, 2002 | Radiation (03CH03-HY) |
| Receiver | SCHAFFNER | SCR 3501 | 417 | 9 KHz –1GHz | Feb. 20, 2003 | Radiation (03CH03-HY) |
| Amplifier | HP | 8447D | 2944A09072 | 100KHz – 1.3GHz | Oct. 21, 2002 | Radiation (03CH03-HY) |
| Bilog Antenna | SCHAFFNER | CBL6112B | 2687 | 30MHz –2GHz | Dec. 21, 2002 | Radiation (03CH03-HY) |
| RF Cable-R03m | Jye Bao | RG142 | CB021 | 30MHz~1GHz | Jan. 02, 2003 | Radiation (03CH03-HY) |
| Amplifier | MITEQ | AFS44 | 879981 | 100MHz~26.5GHz | Aug. 12, 2002 | Radiation (03CH03-HY) |
| Horn Antenna | COM-POWER | AH-118 | 10094 | 1GHz – 18GHz | Apr. 10, 2003 | Radiation (03CH03-HY) |
| Turn Table | HD | DS 420 | 420/650/00 | 0 ~ 360 degree | N/A | Radiation (03CH03-HY) |
| Antenna Mast | HD | MA 240 | 240/560/00 | 1 m - 4 m | N/A | Radiation (03CH03-HY) |
| Horn Antenna | Schwarzbeck | BBHA9170 | BBHA9170154 | 15GHz~40GHz | Jun. 02, 2003 | Radiation (03CH03-HY) |
| RF Cable-HIGH | Jye Bao | RG142 | CB030-HIGH | 1GHz~29.5GHz | Mar. 14, 2003 | Radiation (03CH03-HY) |
| Power meter | R&S | NRVS | 100444 | DC~40GHz | May 28, 2003 | Conducted |
| Power sensor | R&S | NRV-Z55 | 100049 | DC~40GHz | May 28, 2003 | Conducted |
| Power Sensor | R&S | NRV-Z32 | 100057 | 30MHz-6GHz | May 28, 2003 | Conducted |
| AC power source | HPC | HPA-500W | HPA-9100024 | AC 0~300V | May 27, 2003 | Conducted |
| Temp. and Humidity | KSON | THS-C3L | 612 | N/A | Oct. 02, 2002 | Conducted |

Calibration Interval of instruments listed above is one year.

8. Uncertainty of Test Site

Uncertainty of Radiated Emission Measurement

| Contribution | Probability Distribution | 3m |
|--|--------------------------|-------|
| Antenna factor calibration | normal(k=2) | ±1 |
| cable loss calibration | normal(k=2) | ±0.3 |
| RCV/SPA specification | rectangular | ±2 |
| Antenna Directivity | rectangular | ±3 |
| Antenna Factor V.S. Height | rectangular | ±2 |
| Antenna Factor Interpolation for Frequency | rectangular | ±0.25 |
| site imperfection | rectangular | ±2 |
| Mismatch Receiver VSWR $\Gamma_1=0.09$ Antenna VSWR $\Gamma_2=0.67$ Uncertainty= $20\log(1-\Gamma_1\Gamma_2)$ | U-shaped | ±0.54 |
| combined standard uncertainty Ue(y) | normal | ±2.7 |
| Measuring uncertainty for a level of confidence of 95% U=2Ue(y) | normal (k=2) | ±5.4 |

$U = \sqrt{\{(1/2)^2 + (0.3/2)^2 + (2^2 + 0.5^2 + 2^2 + 0.25^2 + 2^2)/3 + (0.54)^2/2\}} = 2.2$ for 10m test distance

$U = \sqrt{\{(1/2)^2 + (0.3/2)^2 + (2^2 + 3^2 + 2^2 + 0.25^2 + 2^2)/3 + (0.54)^2/2\}} = 2.7$ for 3m test distance

Uncertainty of Conducted Emission Measurement

| Contribution | Probability Distribution | 150KHz – 30MHz |
|---|--------------------------|----------------|
| Cable and I/P attenuator calibration | normal(k=2) | ±0.3 |
| RCV/SPA specification | rectangular | ±2 |
| LISN coupling specification | rectangular | ±1.5 |
| Transducer factor frequency interpolation | rectangular | ±0.2 |
| Mismatch Receiver VSWR $\Gamma_1=0.09$ LISN VSWR $\Gamma_2=0.33$ Uncertainty= $20\log(1-\Gamma_1\Gamma_2)$ | U-shaped | 0.2 |
| combined standard uncertainty Ue(y) | normal | ±1.66 |
| Measuring uncertainty for a level of confidence of 95% U=2Ue(y) | normal (k=2) | ±3.32 |

$U = \sqrt{\{(0.3/2)^2 + (2^2 + 1.5^2 + 0.2^2)/3 + (0.2)^2/2\}} = 1.66$