# APPENDIX 2: Data of EMI test

## Conducted Emission
### 11a, Tx, 5180MHz

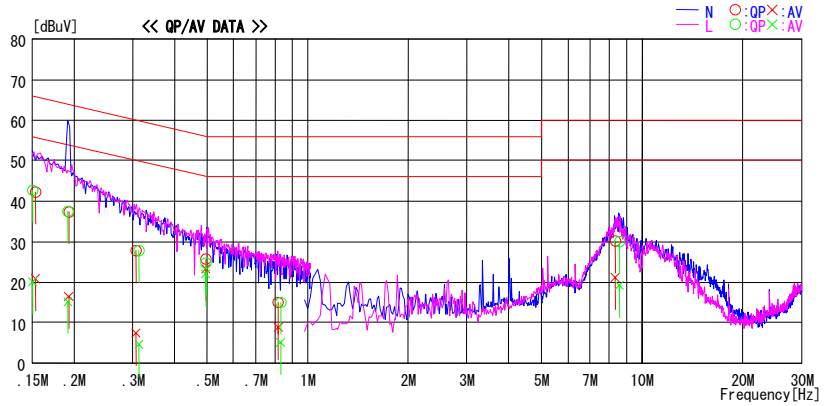
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.6 Shielded room
Date : 2008/07/04

| | | | |
|---|---|---|---|
| Company | : NEC Corporation | Report No. | : 28HE0115-HO-02 |
| Kind of EUT | : Factory Computer as FC-NOTE Series | Power | : AC 120V / 60Hz |
| Model No. | : FC-N22A | Temp./Humi. | : 20deg.C / 43% |
| Serial No. | : PP-004 | Engineer | : Kazufumi Nakai |

Mode / Remarks: 11a Tx 5180MHz, 6Mbps

LIMIT : FCC15.207 QP
FCC15.207 AV




| Frequency | Reading Level QP | Reading Level AV | Corr Factor | Results QP | Results AV | Limit QP | Limit AV | Margin QP | Margin AV | Phase | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| [MHz] | [dBuV] | [dBuV] | [dB] | [dBuV] | [dBuV] | [dBuV] | [dBuV] | [dB] | [dB] | | |
| 0.15330 | 42.3 | 20.9 | 0.0 | 42.3 | 20.9 | 65.8 | 55.8 | 23.5 | 34.9 | N | |
| 0.19284 | 37.4 | 16.5 | 0.0 | 37.4 | 16.5 | 63.9 | 53.9 | 26.5 | 37.4 | N | |
| 0.30720 | 27.7 | 7.3 | 0.1 | 27.8 | 7.4 | 60.0 | 50.0 | 32.2 | 42.6 | N | |
| 0.49512 | 25.6 | 23.3 | 0.1 | 25.7 | 23.4 | 56.1 | 46.1 | 30.4 | 22.7 | N | |
| 0.81698 | 15.0 | 8.7 | 0.1 | 15.1 | 8.8 | 56.0 | 46.0 | 40.9 | 37.2 | N | |
| 8.31781 | 29.7 | 20.7 | 0.5 | 30.2 | 21.2 | 60.0 | 50.0 | 29.8 | 28.8 | N | |
| 0.15071 | 42.7 | 20.1 | 0.0 | 42.7 | 20.1 | 66.0 | 56.0 | 23.3 | 35.9 | L | |
| 0.19145 | 37.5 | 15.3 | 0.0 | 37.5 | 15.3 | 64.0 | 54.0 | 26.5 | 38.7 | L | |
| 0.31287 | 27.8 | 4.5 | 0.1 | 27.9 | 4.6 | 59.9 | 49.9 | 32.0 | 45.3 | L | |
| 0.49476 | 24.7 | 22.0 | 0.1 | 24.8 | 22.1 | 56.1 | 46.1 | 31.3 | 24.0 | L | |
| 0.83024 | 15.0 | 5.0 | 0.1 | 15.1 | 5.1 | 56.0 | 46.0 | 40.9 | 40.9 | L | |
| 8.56188 | 29.6 | 18.8 | 0.5 | 30.1 | 19.3 | 60.0 | 50.0 | 29.9 | 30.7 | L | |

CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

*The test result is round off to one or two decimal places, so some differences might be observed.

# Conducted Emission
## 11a, Tx, 5220MHz

## DATA OF CONDUCTED EMISSION TEST

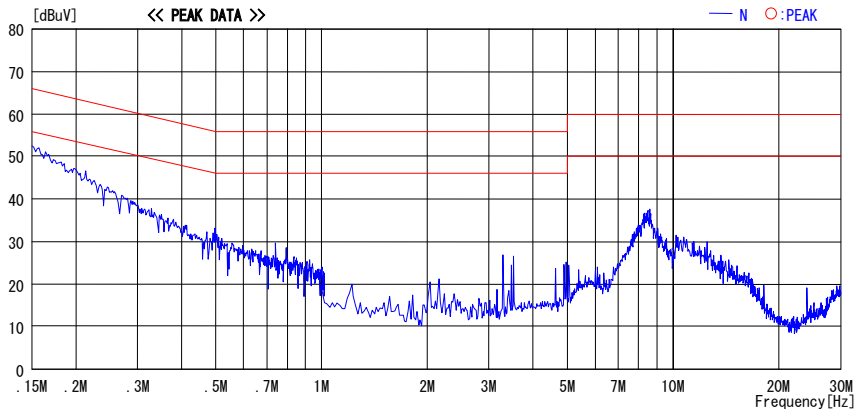
UL Japan, Inc. Head Office EMC Lab. No.6 Shielded room
Date : 2008/07/04

Company : NEC Corporation
Kind of EUT : Factory Computer as FC-NOTE Series
Model No. : FC-N22A
Serial No. : PP-004

Report No. : 28HE0115-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 20deg.C / 43%
Engineer : Kazufumi Nakai

Mode / Remarks : 11a Tx 5220MHz, 6Mbps

LIMIT : FCC15.207 QP
FCC15.207 AV



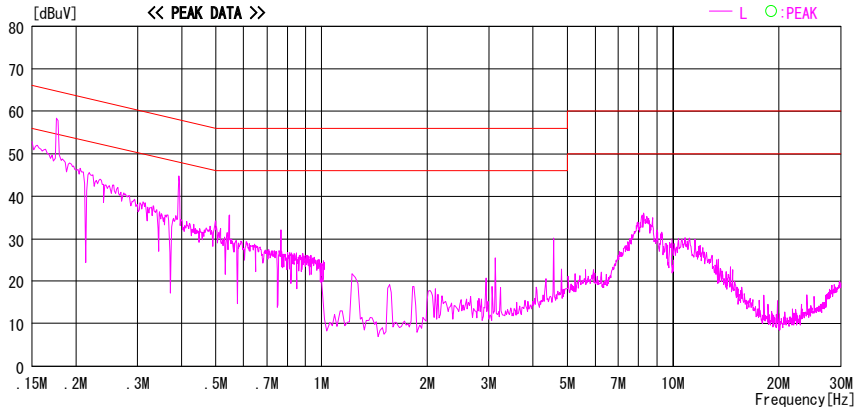




CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

# Conducted Emission
## 11a, Tx, 5240MHz

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.6 Shielded room
Date : 2008/07/04

Company : NEC Corporation
Kind of EUT : Factory Computer as FC-NOTE Series
Model No. : FC-N22A
Serial No. : PP-004

Report No. : 28HE0115-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 20deg.C / 43%
Engineer : Kazufumi Nakai

Mode / Remarks : 11a Tx 5240MHz, 6Mbps

LIMIT : FCC15.207 QP
FCC15.207 AV

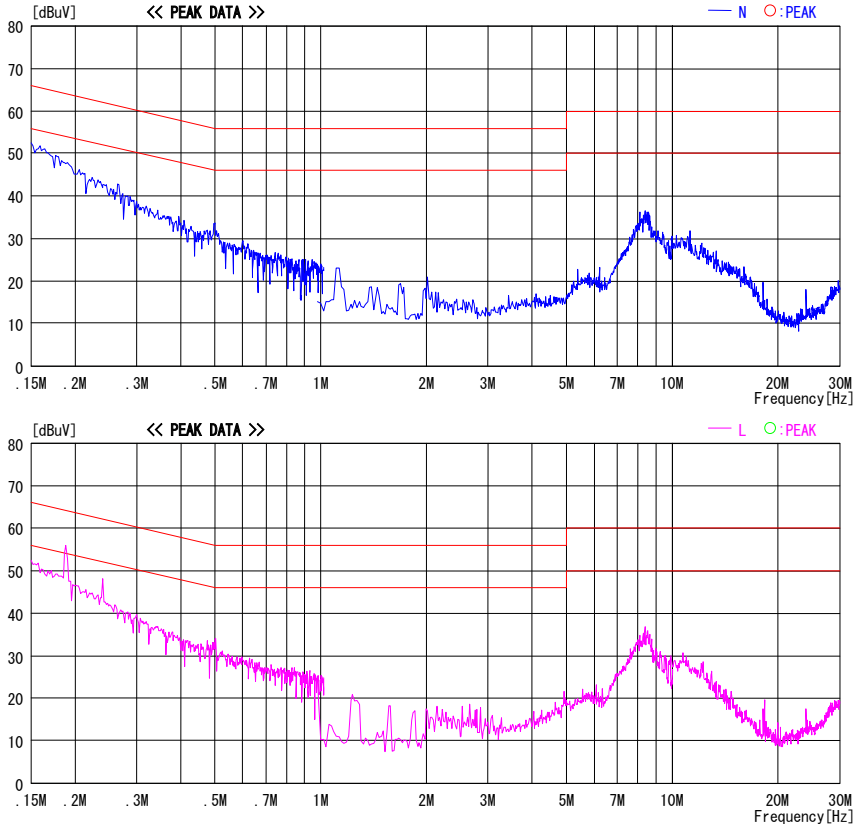






CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

# Conducted Emission
## 11a, Rx, 5220MHz

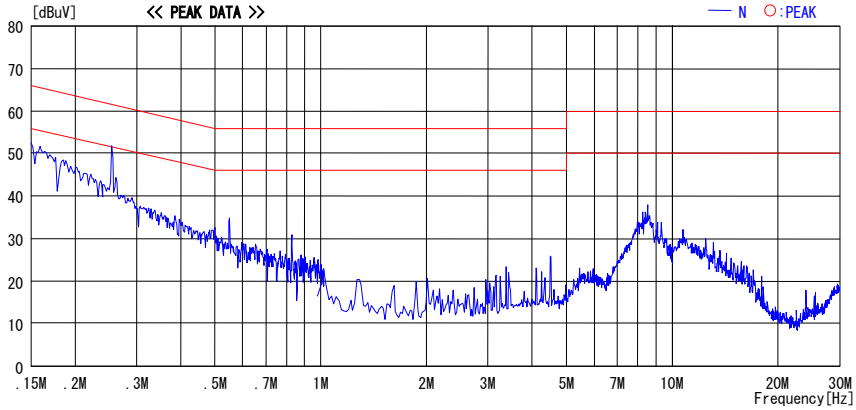
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.6 Shielded room
Date : 2008/07/04

| | | | |
|---|---|---|---|
| Company | : NEC Corporation | Report No. | : 28HE0115-HO-02 |
| Kind of EUT | : Factory Computer as FC-NOTE Series | Power | : AC 120V / 60Hz |
| Model No. | : FC-N22A | Temp./Humi. | : 20deg.C / 43% |
| Serial No. | : PP-004 | Engineer | : Kazufumi Nakai |

Mode / Remarks : 11a Rx 5220MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



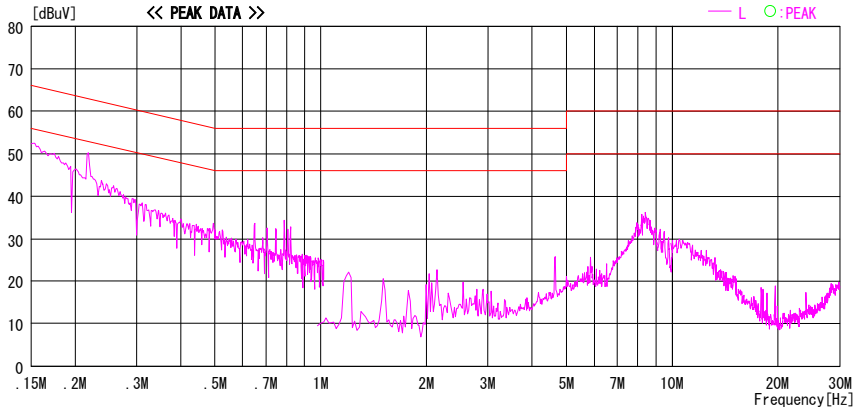




CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

# Conducted Emission
## 11a, Tx, 5260MHz

DATA OF CONDUCTED EMISSION TEST

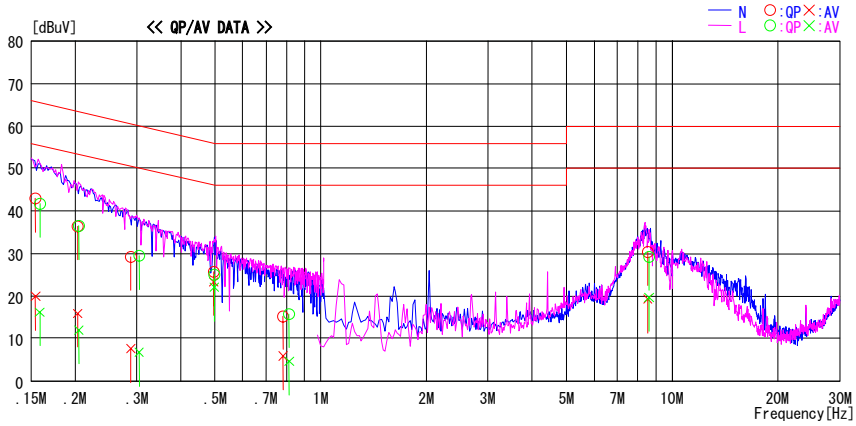
UL Japan, Inc. Head Office EMC Lab. No.6 Shielded room
Date : 2008/07/04

Company : NEC Corporation
Kind of EUT : Factory Computer as FC-NOTE Series
Model No. : FC-N22A
Serial No. : PP-004

Report No. : 28HE0115-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 20deg.C / 43%
Engineer : Kazufumi Nakai

Mode / Remarks : 11a Tx 5260MHz, 6Mbps

LIMIT : FCC15.207 QP
FCC15.207 AV




| Frequency | Reading Level QP | Reading Level AV | Corr. Factor | Results QP | Results AV | Limit QP | Limit AV | Margin QP | Margin AV | Phase | Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|
| [MHz] | [dBuV] | [dBuV] | [dB] | [dBuV] | [dBuV] | [dBuV] | [dBuV] | [dB] | [dB] | | |
| 0.15440 | 42.9 | 20.0 | 0.0 | 42.9 | 20.0 | 65.8 | 55.8 | 22.9 | 35.8 | N | |
| 0.20312 | 36.3 | 15.8 | 0.1 | 36.4 | 15.9 | 63.5 | 53.5 | 27.1 | 37.6 | N | |
| 0.28812 | 29.2 | 7.4 | 0.1 | 29.3 | 7.5 | 60.6 | 50.6 | 31.3 | 43.1 | N | |
| 0.49586 | 25.6 | 23.3 | 0.1 | 25.7 | 23.4 | 56.1 | 46.1 | 30.4 | 22.7 | N | |
| 0.78064 | 15.2 | 5.7 | 0.1 | 15.3 | 5.8 | 56.0 | 46.0 | 40.7 | 40.2 | N | |
| 8.54521 | 29.9 | 18.8 | 0.5 | 30.4 | 19.3 | 60.0 | 50.0 | 29.6 | 30.7 | N | |
| 0.15873 | 41.7 | 16.2 | 0.0 | 41.7 | 16.2 | 65.5 | 55.5 | 23.8 | 39.3 | L | |
| 0.20451 | 36.4 | 11.9 | 0.1 | 36.5 | 12.0 | 63.4 | 53.4 | 26.9 | 41.4 | L | |
| 0.30425 | 29.4 | 6.6 | 0.1 | 29.5 | 6.7 | 60.1 | 50.1 | 30.6 | 43.4 | L | |
| 0.49681 | 24.9 | 22.0 | 0.1 | 25.0 | 22.1 | 56.1 | 46.1 | 31.1 | 24.0 | L | |
| 0.81412 | 15.7 | 4.5 | 0.1 | 15.8 | 4.6 | 56.0 | 46.0 | 40.2 | 41.4 | L | |
| 8.61540 | 28.8 | 19.2 | 0.5 | 29.3 | 19.7 | 60.0 | 50.0 | 30.7 | 30.3 | L | |

CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

*The test result is round off to one or two decimal places, so some differences might be observed.

**UL Japan, Inc.**
**Head Office EMC Lab.**
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# Conducted Emission
## 11a, Tx, 5300MHz

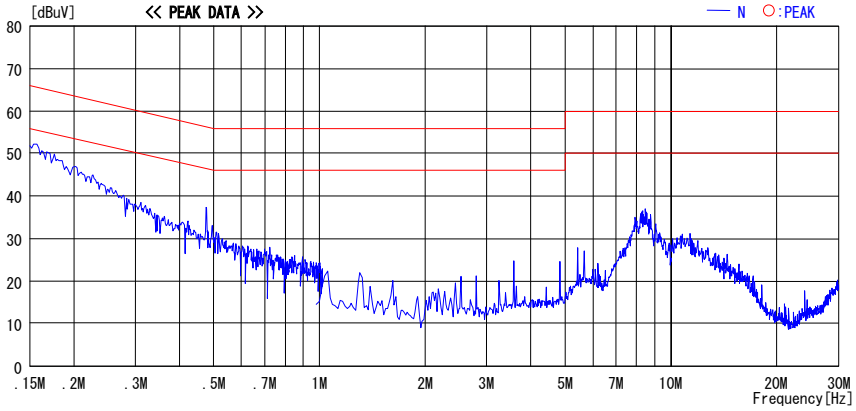
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.6 Shielded room
Date : 2008/07/04

| | | | |
|---|---|---|---|
| Company | : NEC Corporation | Report No. | : 28HE0115-HO-02 |
| Kind of EUT | : Factory Computer as FC-NOTE Series | Power | : AC 120V / 60Hz |
| Model No. | : FC-N22A | Temp./Humi. | : 20deg.C / 43% |
| Serial No. | : PP-004 | Engineer | : Kazufumi Nakai |

Mode / Remarks : 11a Tx 5300MHz, 6Mbps

LIMIT : FCC15.207 QP
FCC15.207 AV



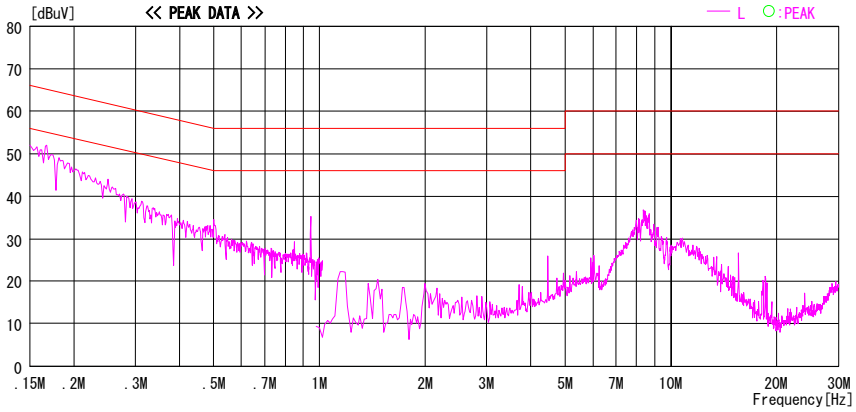




CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

**UL Japan, Inc.**
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# Conducted Emission
## 11a, Tx, 5320MHz

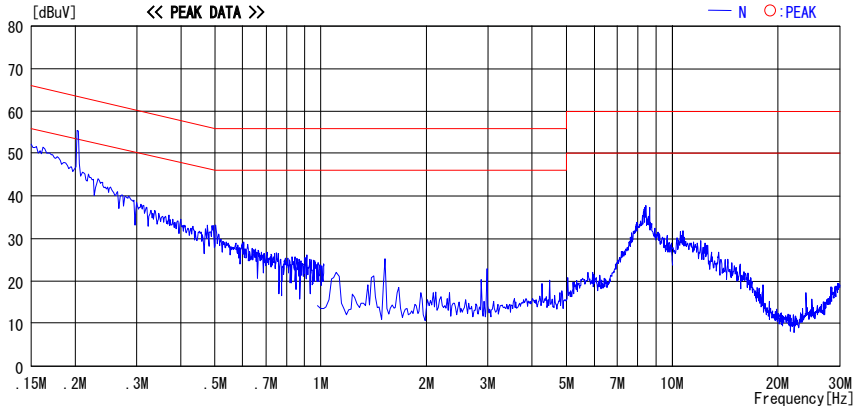
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.6 Shielded room
Date : 2008/07/04

| | | | |
|---|---|---|---|
| Company | : NEC Corporation | Report No. | : 28HE0115-HO-02 |
| Kind of EUT | : Factory Computer as FC-NOTE Series | Power | : AC 120V / 60Hz |
| Model No. | : FC-N22A | Temp./Humi. | : 20deg.C / 43% |
| Serial No. | : PP-004 | Engineer | : Kazufumi Nakai |

Mode / Remarks : 11a Tx 5320MHz, 6Mbps

LIMIT : FCC15.207 QP
FCC15.207 AV



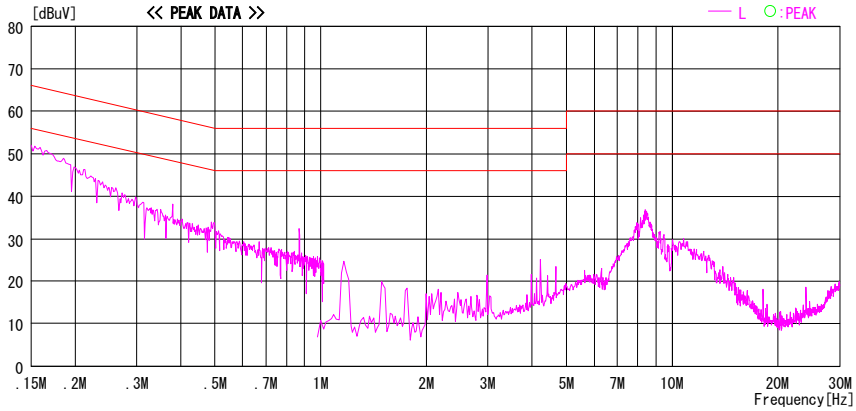




CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

# Conducted Emission
## 11a, Rx, 5300MHz

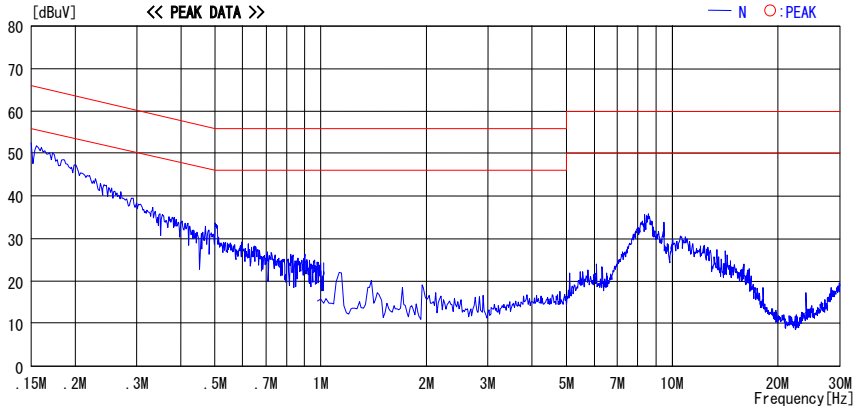
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.6 Shielded room
Date : 2008/07/04

| | | | |
|---|---|---|---|
| Company | : NEC Corporation | Report No. | : 28HE0115-HO-02 |
| Kind of EUT | : Factory Computer as FC-NOTE Series | Power | : AC 120V / 60Hz |
| Model No. | : FC-N22A | Temp./Humi. | : 20deg.C / 43% |
| Serial No. | : PP-004 | Engineer | : Kazufumi Nakai |

Mode / Remarks : 11a Rx 5300MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



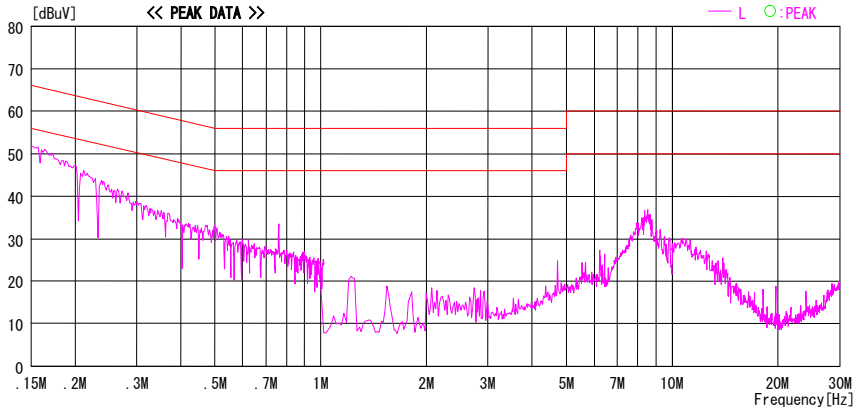




CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

# 26dB Emission Bandwidth

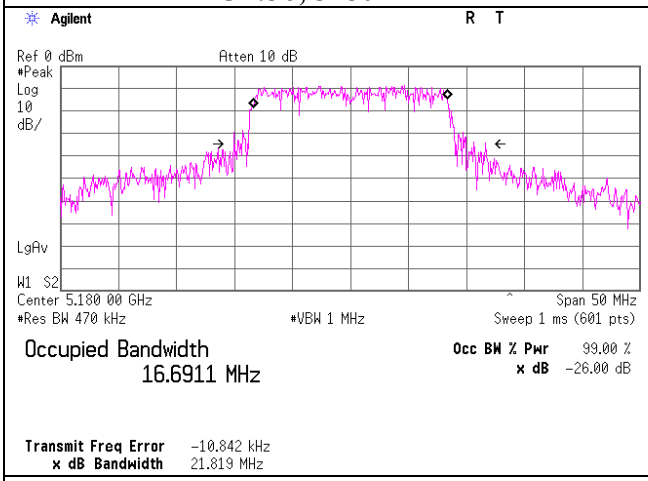
UL Japan, Inc.
Head Office EMC Lab. No.6 Measurement room

| | | | |
|---|---|---|---|
| Company | NEC Corporation | | |
| Equipment | Factory Computer as FC-NOTE Series | Regulation | FCC Section 15.407(a)(1)(2)(3) / RSS-210 A9.2(1)(2)(3) |
| Model | FC-N22A | Test Distance | - |
| S/N | PP-091 | Date | 04/23/2008 |
| Power | AC 120V / 60Hz | Temperature | 23 deg.C. |
| Mode | 11a, Transmitting (Tx), 6Mbps, MAIN ANT | Humidity | 51 % |
| | | Engineer | Yutaka Yoshida |

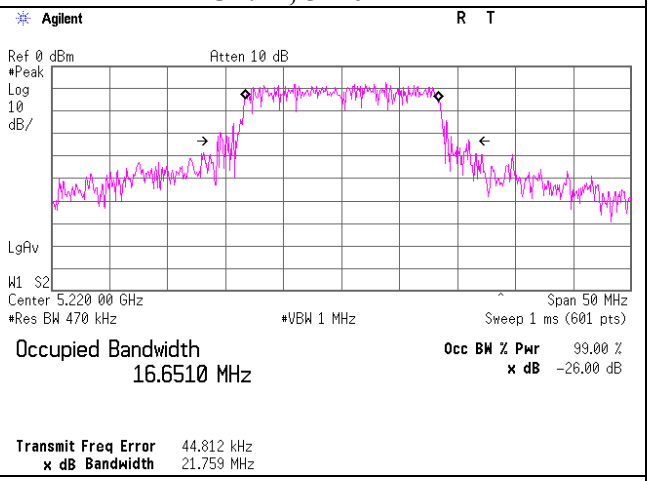
| Ch | Freq. [MHz] | 26dB Bandwidth [MHz] | Limit [MHz] |
|---|---|---|---|
| 36 | 5180.0 | 21.819 | - |
| 44 | 5220.0 | 21.759 | - |
| 48 | 5240.0 | 21.576 | - |
| 52 | 5260.0 | 22.373 | - |
| 60 | 5300.0 | 22.562 | - |
| 64 | 5320.0 | 21.756 | - |

# 26dB Emission Bandwidth

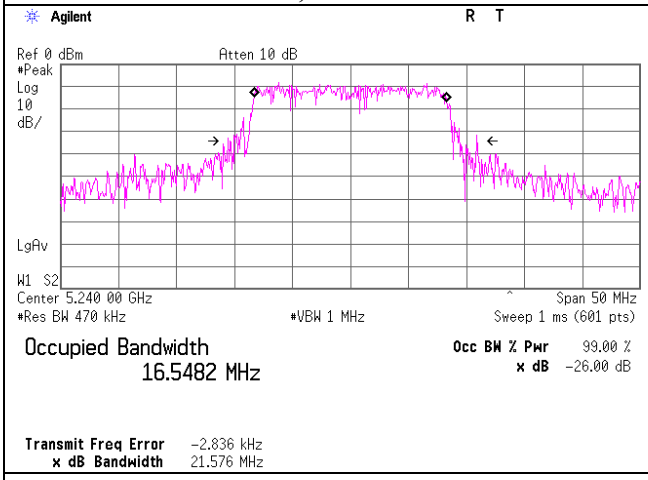
## Ch:36, 5180MHz



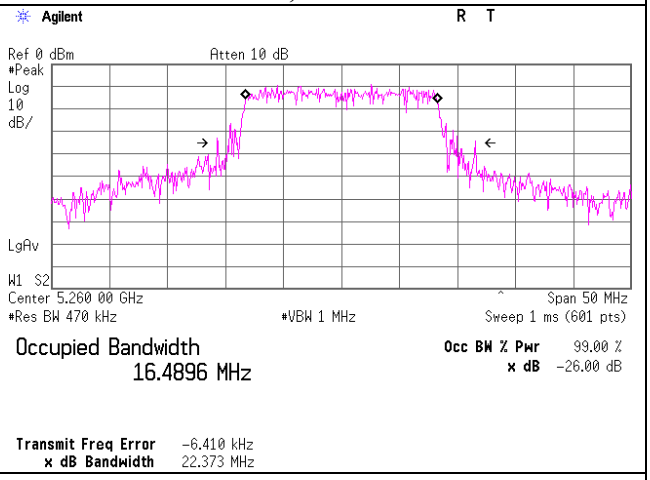

## Ch:44, 5220MHz



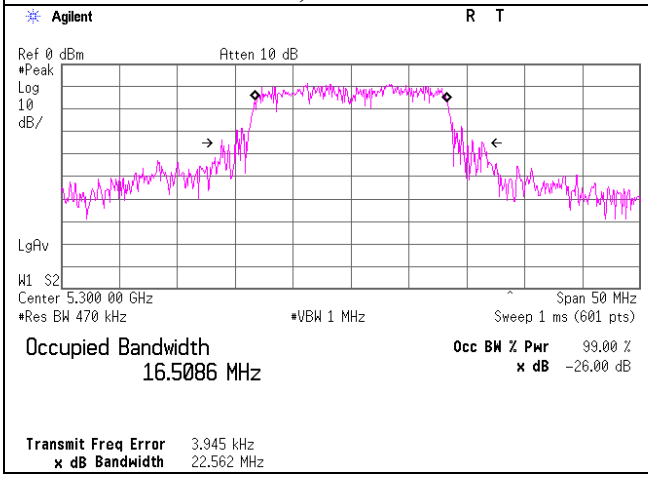

## Ch:48, 5240MHz



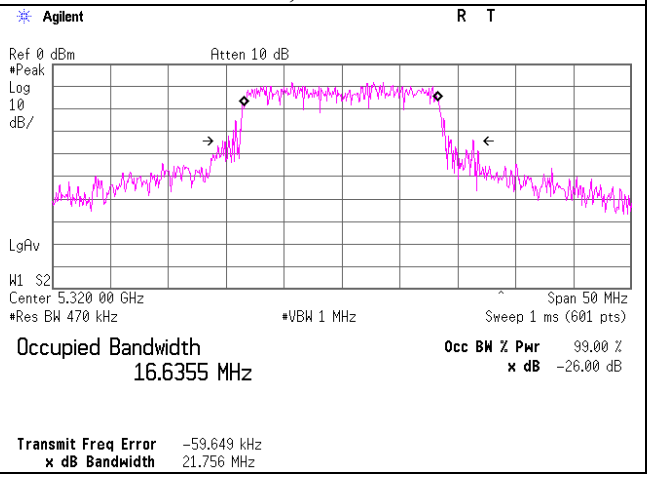

## Ch:52, 5260MHz




## Ch:60, 5300MHz




## Ch:64, 5320MHz



# Maximum Peak Output Power

UL Japan, Inc.
Head Office EMC Lab. No.6 Measurement room

| | | | |
|---|---|---|---|
| Company | NEC Corporation | | |
| Equipment | Factory Computer as FC-NOTE Series | Regulation | FCC Section 15.407(a)(1)(2)(3) / RSS-210 A9.2(1)(2)(3) |
| Model | FC-N22A | Test Distance | - |
| S/N | PP-091 | Date | 04/21/2008 |
| Power | AC 120V / 60Hz | Temperature | 25 deg.C. |
| Mode | 11a, Transmitting (Tx), 6Mbps, MAIN ANT (Reference: ANT: AUX) | Humidity | 64 % |
| | | Engineer | Yutaka Yoshida |

**ANT:MAIN (Worst), 6Mbps (Worst)**

| Ch | Freq. [MHz] | S/A Reading [dBm] | Cable Loss [dB] | Atten. [dB] | Result [dBm] | Limit [dBm] | Margin [dB] |
|---|---|---|---|---|---|---|---|
| 36 | 5180.0 | 2.10 | 1.90 | 10.30 | 14.30 | 17.00 | 2.70 |
| 44 | 5220.0 | 2.13 | 1.90 | 10.30 | 14.33 | 17.00 | 2.67 |
| 48 | 5240.0 | 1.68 | 1.90 | 10.30 | 13.88 | 17.00 | 3.12 |
| 52 | 5260.0 | 0.85 | 1.90 | 10.30 | 13.05 | 24.00 | 10.95 |
| 60 | 5300.0 | 0.85 | 1.90 | 10.30 | 13.05 | 24.00 | 10.95 |
| 64 | 5320.0 | 1.17 | 1.90 | 10.30 | 13.37 | 24.00 | 10.63 |

**ANT:AUX, 6Mbps**

| Ch | Freq. [MHz] | S/A Reading [dBm] | Cable Loss [dB] | Atten. [dB] | Result [dBm] | Limit [dBm] | Margin [dB] |
|---|---|---|---|---|---|---|---|
| 36 | 5180.0 | -0.55 | 1.90 | 10.30 | 11.65 | 17.00 | 3.51 |
| 44 | 5220.0 | -0.06 | 1.90 | 10.30 | 12.14 | 17.00 | 2.93 |
| 48 | 5240.0 | 0.30 | 1.90 | 10.30 | 12.50 | 17.00 | 2.34 |
| 52 | 5260.0 | 0.42 | 1.90 | 10.30 | 12.62 | 24.00 | 11.38 |
| 60 | 5300.0 | 0.60 | 1.90 | 10.30 | 12.80 | 24.00 | 11.20 |
| 64 | 5320.0 | 1.60 | 1.90 | 10.30 | 13.80 | 24.00 | 10.20 |

Sample Calculation:
Result = Reading + Cable Loss + Attenuator
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

**DATA Rate of Maximum Power**
**ANT:MAIN (Worst), 5220MHz**

| Rate [Mbps] | Freq. [MHz] | S/A Reading [dBm] | Cable Loss [dB] | Atten. [dB] | Result [dBm] | Limit [dBm] | Margin [dB] |
|---|---|---|---|---|---|---|---|
| 6 | 5220.0 | 2.13 | 1.90 | 10.30 | **14.33** | 17.00 | **2.67** |
| 9 | 5220.0 | 1.89 | 1.90 | 10.30 | 14.09 | 17.00 | 2.91 |
| 12 | 5220.0 | 2.09 | 1.90 | 10.30 | 14.29 | 17.00 | 2.71 |
| 18 | 5220.0 | 1.84 | 1.90 | 10.30 | 14.04 | 17.00 | 2.96 |
| 24 | 5220.0 | 1.91 | 1.90 | 10.30 | 14.11 | 17.00 | 2.89 |
| 36 | 5220.0 | 1.91 | 1.90 | 10.30 | 14.11 | 17.00 | 2.89 |
| 48 | 5220.0 | -0.97 | 1.90 | 10.30 | 11.23 | 17.00 | 5.77 |
| 54 | 5220.0 | -1.91 | 1.90 | 10.30 | 10.29 | 17.00 | 6.71 |

**DATA Rate of Maximum Power**
**ANT:AUX (Worst), 5220MHz**

| Rate [Mbps] | Freq. [MHz] | S/A Reading [dBm] | Cable Loss [dB] | Atten. [dB] | Result [dBm] | Limit [dBm] | Margin [dB] |
|---|---|---|---|---|---|---|---|
| 6 | 5220.0 | -0.06 | 1.90 | 10.30 | 12.14 | 17.00 | 4.86 |
| 9 | 5220.0 | -0.24 | 1.90 | 10.30 | 11.96 | 17.00 | 5.04 |
| 12 | 5220.0 | -0.13 | 1.90 | 10.30 | 12.07 | 17.00 | 4.93 |
| 18 | 5220.0 | -0.22 | 1.90 | 10.30 | 11.98 | 17.00 | 5.02 |
| 24 | 5220.0 | -0.09 | 1.90 | 10.30 | 12.11 | 17.00 | 4.89 |
| 36 | 5220.0 | -0.23 | 1.90 | 10.30 | 11.97 | 17.00 | 5.03 |
| 48 | 5220.0 | -2.60 | 1.90 | 10.30 | 9.60 | 17.00 | 7.40 |
| 54 | 5220.0 | -3.37 | 1.90 | 10.30 | 8.83 | 17.00 | 8.17 |

**DATA Rate of Maximum Power**
**ANT:MAIN (Worst), 5300MHz**

| Rate [Mbps] | Freq. [MHz] | S/A Reading [dBm] | Cable Loss [dB] | Atten. [dB] | Result [dBm] | Limit [dBm] | Margin [dB] |
|---|---|---|---|---|---|---|---|
| 6 | 5300.0 | 0.85 | 1.90 | 10.30 | 13.05 | 24.00 | 10.95 |
| 9 | 5300.0 | 0.46 | 1.90 | 10.30 | 12.66 | 24.00 | 11.34 |
| 12 | 5300.0 | 0.20 | 1.90 | 10.30 | 12.40 | 24.00 | 11.60 |
| 18 | 5300.0 | 0.09 | 1.90 | 10.30 | 12.29 | 24.00 | 11.71 |
| 24 | 5300.0 | -0.89 | 1.90 | 10.30 | 11.31 | 24.00 | 12.69 |
| 36 | 5300.0 | -1.11 | 1.90 | 10.30 | 11.09 | 24.00 | 12.91 |
| 48 | 5300.0 | -1.59 | 1.90 | 10.30 | 10.61 | 24.00 | 13.39 |
| 54 | 5300.0 | -2.16 | 1.90 | 10.30 | 10.04 | 24.00 | 13.96 |

**DATA Rate of Maximum Power**
**ANT:AUX (Worst), 5300MHz**

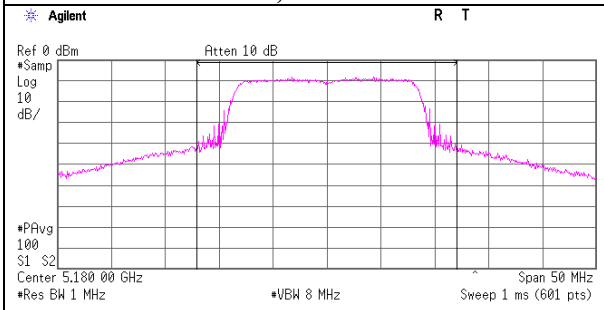
| Rate [Mbps] | Freq. [MHz] | S/A Reading [dBm] | Cable Loss [dB] | Atten. [dB] | Result [dBm] | Limit [dBm] | Margin [dB] |
|---|---|---|---|---|---|---|---|
| 6 | 5300.0 | 0.60 | 1.90 | 10.30 | 12.80 | 24.00 | 11.20 |
| 9 | 5300.0 | 0.52 | 1.90 | 10.30 | 12.72 | 24.00 | 11.28 |
| 12 | 5300.0 | 0.58 | 1.90 | 10.30 | 12.78 | 24.00 | 11.22 |
| 18 | 5300.0 | 0.60 | 1.90 | 10.30 | 12.80 | 24.00 | 11.20 |
| 24 | 5300.0 | -0.06 | 1.90 | 10.30 | 12.14 | 24.00 | 11.86 |
| 36 | 5300.0 | -0.94 | 1.90 | 10.30 | 11.26 | 24.00 | 12.74 |
| 48 | 5300.0 | -1.82 | 1.90 | 10.30 | 10.38 | 24.00 | 13.62 |
| 54 | 5300.0 | -2.91 | 1.90 | 10.30 | 9.29 | 24.00 | 14.71 |

Sample Calculation:
Result = Reading + Cable Loss + Attenuator
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

*The averaging includes only time internals during which the transmitter is operating at its maximum power level. (Gating function was used)

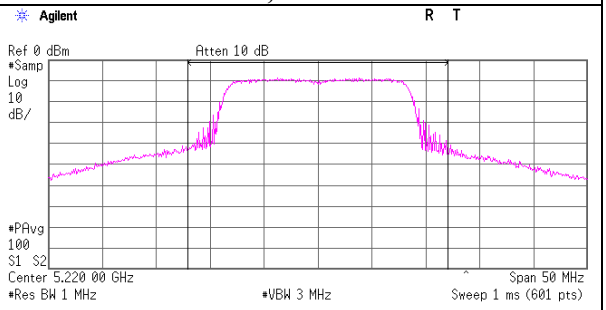
# Maximum Peak Output Power
## ANT: MAIN

### Ch:36, 5180MHz



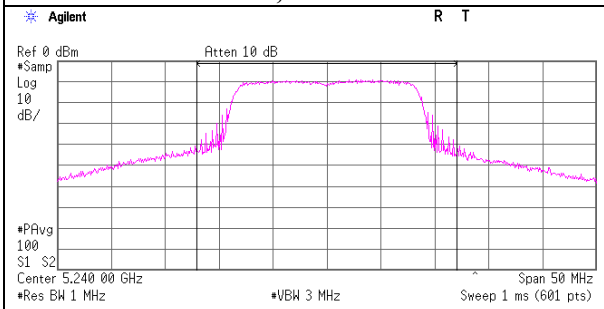

| Channel Power | Power Spectral Density |
|---|---|
| 2.10 dBm /24.0000 MHz | -71.70 dBm/Hz |

### Ch:44, 5220MHz



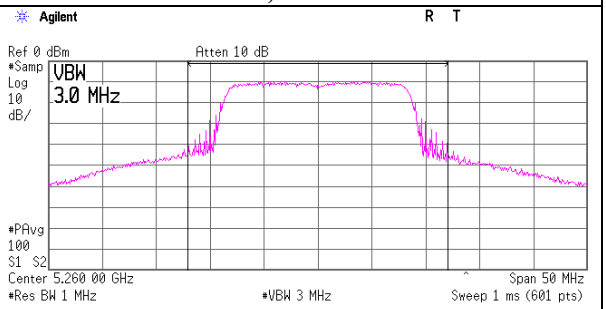

| Channel Power | Power Spectral Density |
|---|---|
| 2.09 dBm /24.0000 MHz | -71.71 dBm/Hz |

### Ch:48, 5240MHz



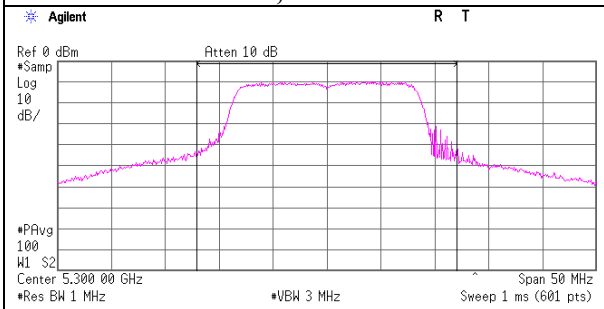

| Channel Power | Power Spectral Density |
|---|---|
| 1.68 dBm /24.0000 MHz | -72.13 dBm/Hz |

### Ch:52, 5260MHz



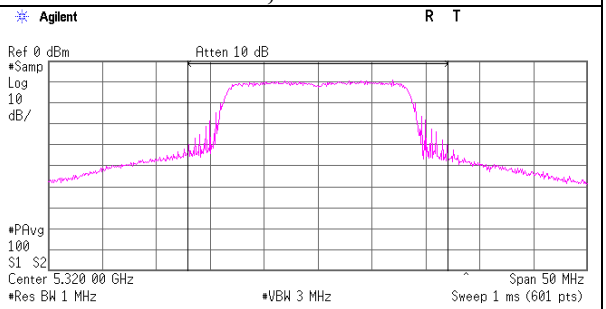

| Channel Power | Power Spectral Density |
|---|---|
| 0.85 dBm /24.0000 MHz | -72.95 dBm/Hz |

### Ch:60, 5300MHz




| Channel Power | Power Spectral Density |
|---|---|
| 0.85 dBm /24.0000 MHz | -72.95 dBm/Hz |

### Ch:64, 5320MHz

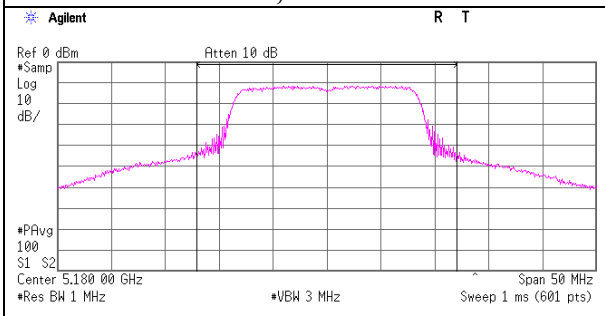



| Channel Power | Power Spectral Density |
|---|---|
| 1.17 dBm /24.0000 MHz | -72.64 dBm/Hz |

# Maximum Peak Output Power

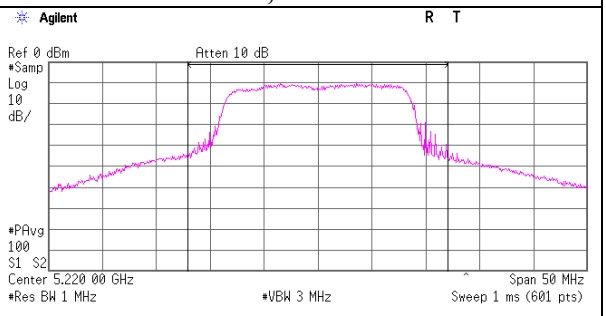
## ANT: AUX

### Ch:36, 5180MHz



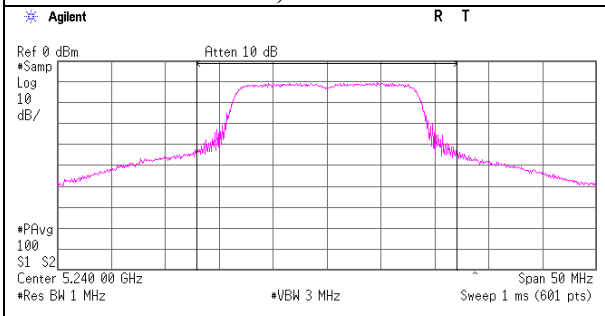

| Channel Power | Power Spectral Density |
|---|---|
| -0.55 dBm /24.0000 MHz | -74.35 dBm/Hz |

### Ch:44, 5220MHz



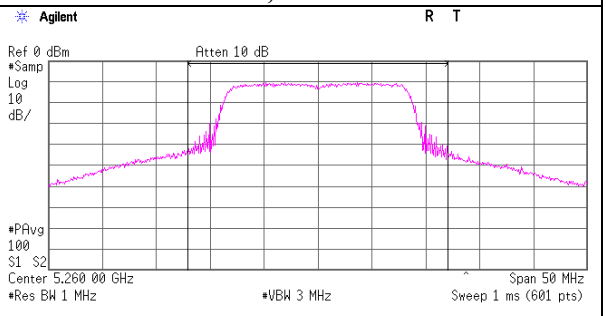

| Channel Power | Power Spectral Density |
|---|---|
| -0.06 dBm /24.0000 MHz | -73.87 dBm/Hz |

### Ch:48, 5240MHz



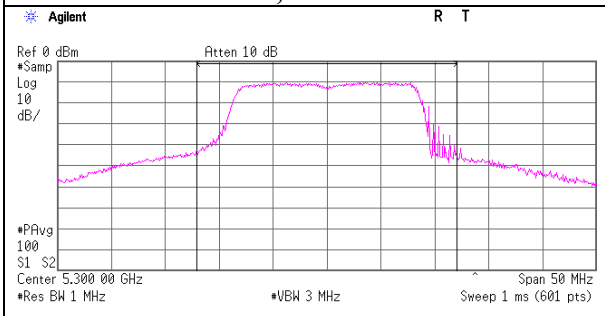

| Channel Power | Power Spectral Density |
|---|---|
| 0.30 dBm /24.0000 MHz | -73.50 dBm/Hz |

### Ch:52, 5260MHz



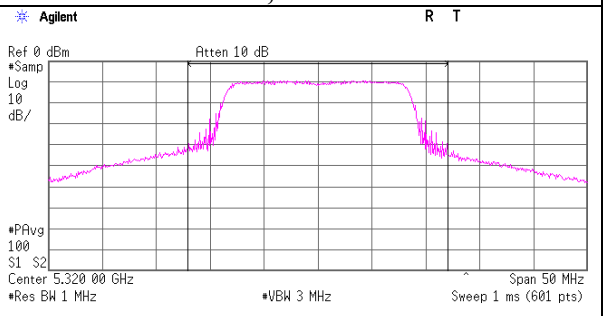

| Channel Power | Power Spectral Density |
|---|---|
| 0.42 dBm /24.0000 MHz | -73.38 dBm/Hz |

### Ch:60, 5300MHz



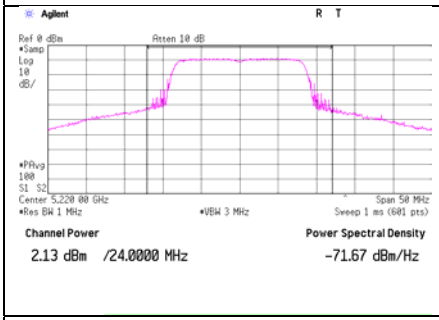
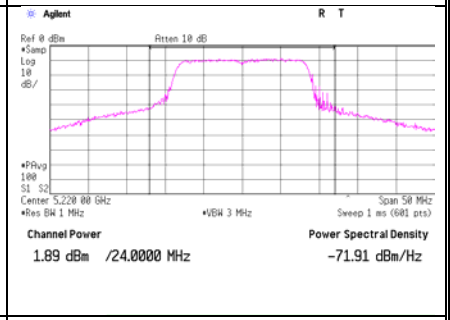
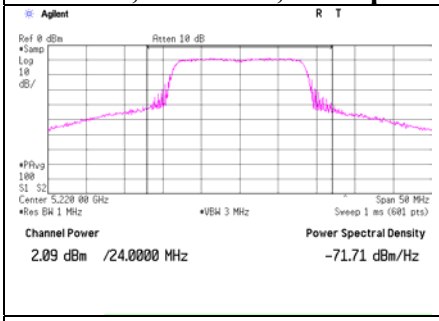
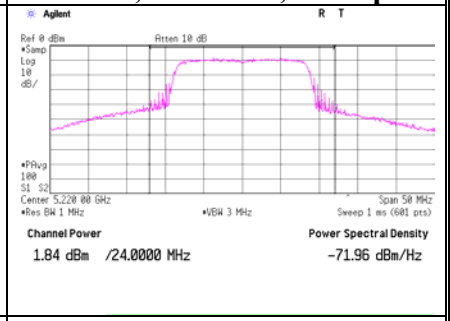
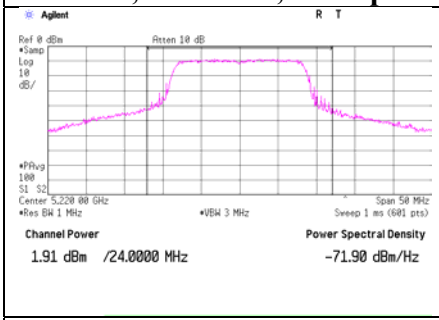
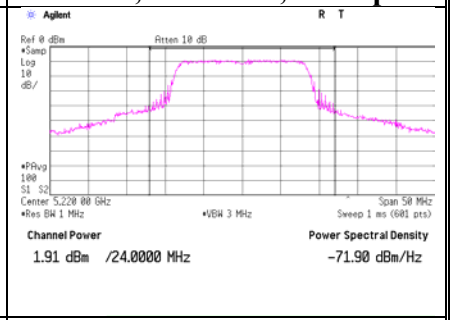
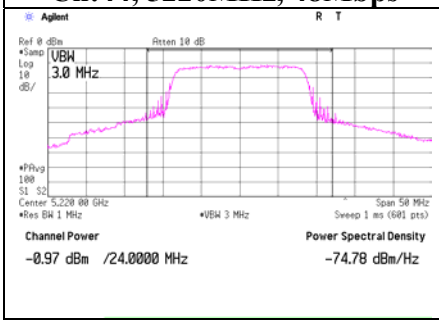
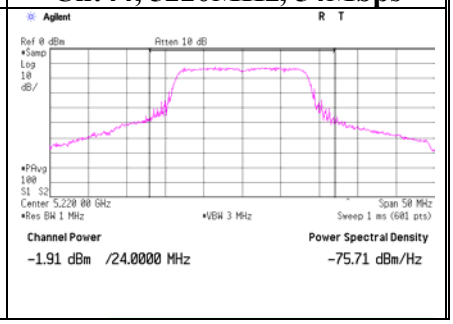

| Channel Power | Power Spectral Density |
|---|---|
| 0.60 dBm /24.0000 MHz | -73.20 dBm/Hz |

### Ch:64, 5320MHz



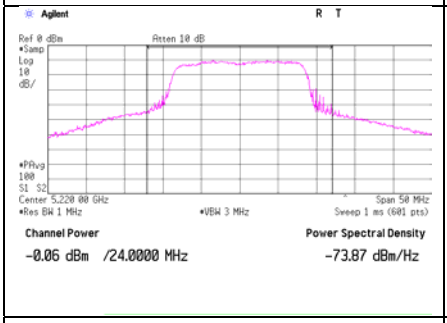

| Channel Power | Power Spectral Density |
|---|---|
| 1.60 dBm /24.0000 MHz | -72.21 dBm/Hz |

# Maximum Peak Output Power
## (Data Rate of Maximum Power)
## ANT: MAIN

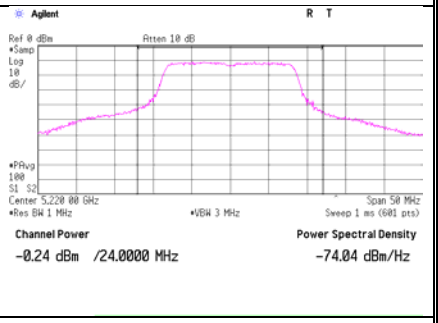
| Ch:44, 5220MHz, 6Mbps | Ch:44, 5220MHz, 9Mbps |
|---|---|
|  |  |
| **Ch:44, 5220MHz, 12Mbps** | **Ch:44, 5220MHz, 18Mbps** |
|  |  |
| **Ch:44, 5220MHz, 24Mbps** | **Ch:44, 5220MHz, 36Mbps** |
|  |  |
| **Ch:44, 5220MHz, 48Mbps** | **Ch:44, 5220MHz, 54Mbps** |
|  |  |

## Maximum Peak Output Power
## (Data Rate of Maximum Power)
## ANT: AUX

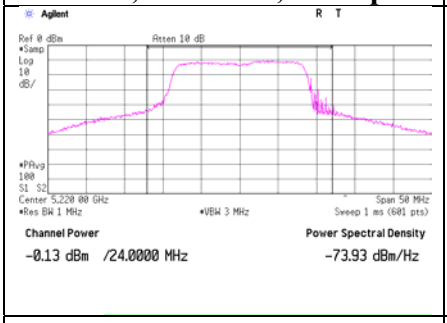
### Ch:44, 5220MHz, 6Mbps



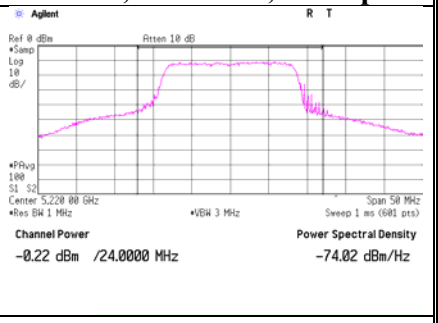

### Ch:44, 5220MHz, 9Mbps



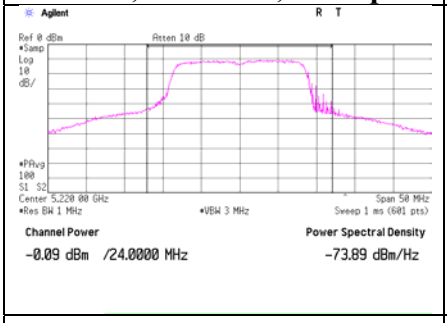

### Ch:44, 5220MHz, 12Mbps



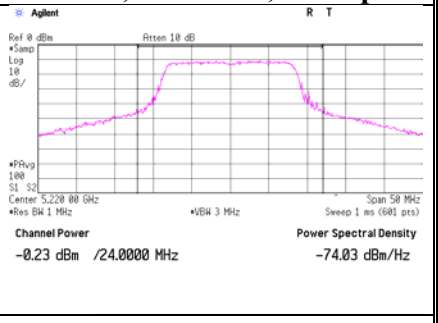

### Ch:44, 5220MHz, 18Mbps



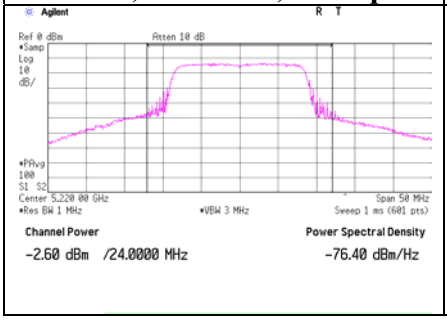

### Ch:44, 5220MHz, 24Mbps



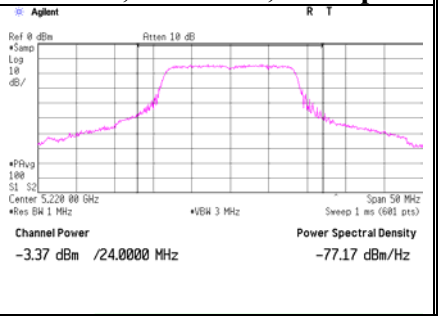

### Ch:44, 5220MHz, 36Mbps



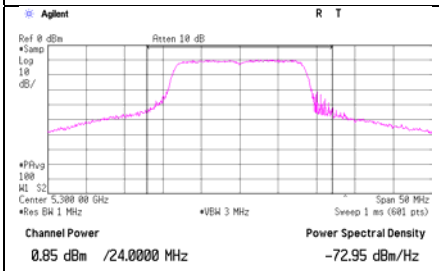
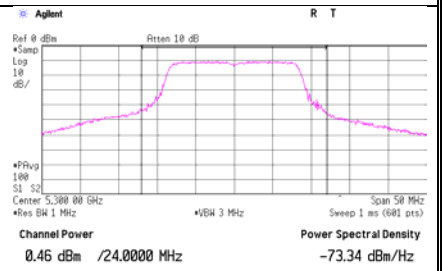
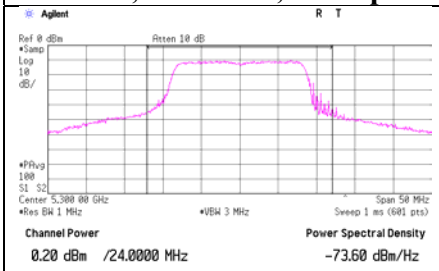
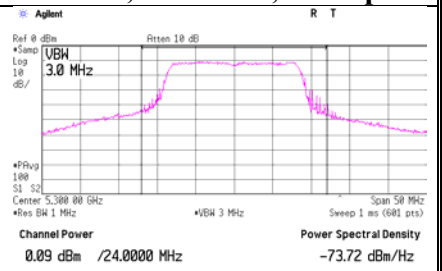
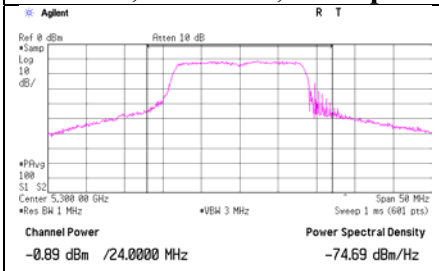
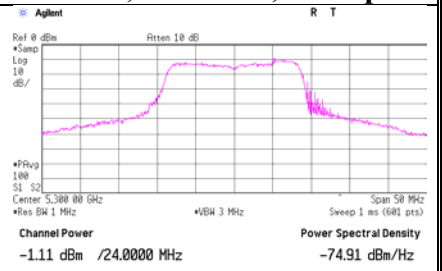
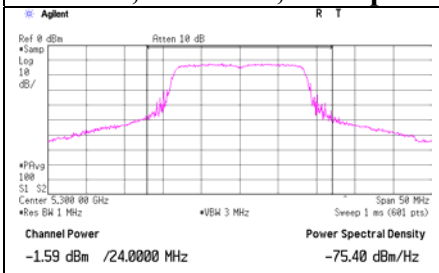
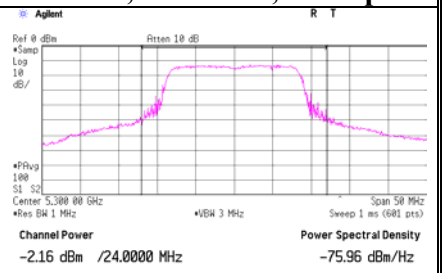

### Ch:44, 5220MHz, 48Mbps




### Ch:44, 5220MHz, 54Mbps

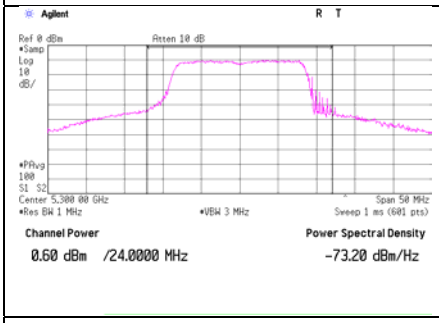


# Maximum Peak Output Power
## (Data Rate of Maximum Power)
## ANT: MAIN

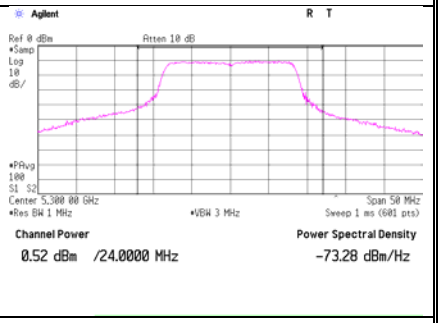
| Ch:60, 5300MHz, 6Mbps | Ch:60, 5300MHz, 9Mbps |
|---|---|
|  |  |
| **Ch:60, 5300MHz, 12Mbps** | **Ch:60, 5300MHz, 18Mbps** |
|  |  |
| **Ch:60, 5300MHz, 24Mbps** | **Ch:60, 5300MHz, 36Mbps** |
|  |  |
| **Ch:60, 5300MHz, 48Mbps** | **Ch:60, 5300MHz, 54Mbps** |
|  |  |

# Maximum Peak Output Power
## (Data Rate of Maximum Power)
## ANT: AUX

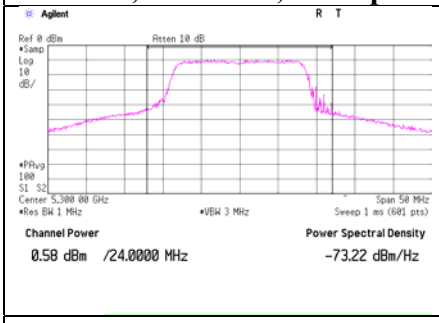
### Ch:60, 5300MHz, 6Mbps



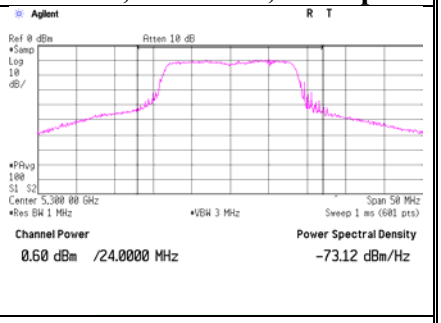

### Ch:60, 5300MHz, 9Mbps



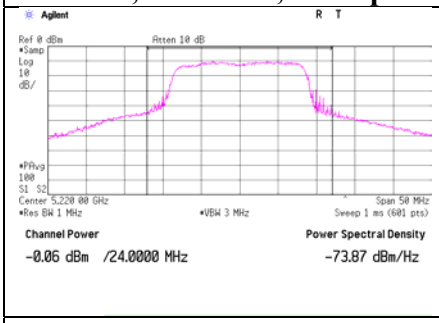

### Ch:60, 5300MHz, 12Mbps



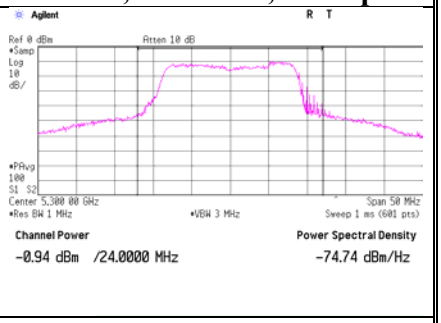

### Ch:60, 5300MHz, 18Mbps



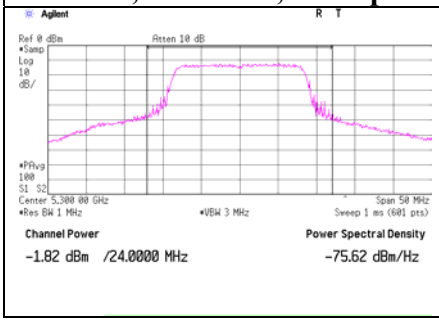

### Ch:60, 5300MHz, 24Mbps



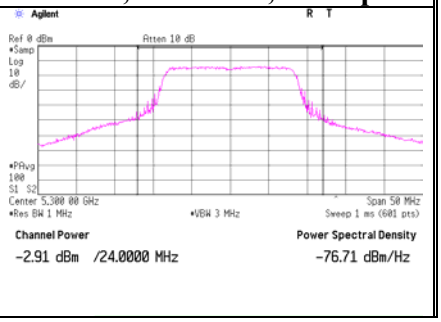

### Ch:60, 5300MHz, 36Mbps




### Ch:60, 5300MHz, 48Mbps




### Ch:60, 5300MHz, 54Mbps



# Radiated Spurious Emission

**Decision of transmission antenna and worst axis for the radiated spurious emission measurement**
**11a, Low Band**

## DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/04/22

| | | | |
|---|---|---|---|
| Company | : NEC Corporation | Report No. | : 28HE0115-HO-02 |
| Kind of EUT | : Factory Computer as FC-NOTE Series | Power | : AC120V/60Hz |
| Model No. | : FC-N22A | Temp./Humi. | : 24deg.C / 40% |
| Serial No. | : PP-090 | Operator | : Yutaka Yoshida |

Mode / Remarks : 11a Tx Low Band 5220MHz, 6Mbps(Worst Data Rate), S/A Setting:RBW=1MHz, VBW=3MHz, 3m

LIMIT :

| Frequency | Reading | DET | Antenna Factor | Loss& Gain | Level | Polar. | Limit | Margin | Comment |
|---|---|---|---|---|---|---|---|---|---|
| [MHz] | [dBuV] | | [dB/m] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | |
| 5220.000 | 89.1 | PK | 31.4 | -17.2 | 103.3 | Hori. | ----- | ----- | MAIN ANT, X-axis |
| 5220.000 | 93.8 | PK | 31.4 | -17.2 | 108.0 | Vert. | ----- | ----- | MAIN ANT, X-axis(MAX) |
| 5220.000 | 92.2 | PK | 31.4 | -17.2 | 106.4 | Hori. | ----- | ----- | MAIN ANT, Y-axis(MAX) |
| 5220.000 | 83.5 | PK | 31.4 | -17.2 | 97.7 | Vert. | ----- | ----- | MAIN ANT, Y-axis |
| 5220.000 | 86.9 | PK | 31.4 | -17.2 | 101.1 | Hori. | ----- | ----- | MAIN ANT, Z-axis |
| 5220.000 | 90.8 | PK | 31.4 | -17.2 | 105.0 | Vert. | ----- | ----- | MAIN ANT, Z-axis |
| 5220.000 | 87.2 | PK | 31.4 | -17.2 | 101.4 | Hori. | ----- | ----- | AUX ANT, X-axis |
| 5220.000 | 93.2 | PK | 31.4 | -17.2 | 107.4 | Vert. | ----- | ----- | AUX ANT, X-axis |
| 5220.000 | 91.2 | PK | 31.4 | -17.2 | 105.4 | Hori. | ----- | ----- | AUX ANT, Y-axis |
| 5220.000 | 87.0 | PK | 31.4 | -17.2 | 101.2 | Vert. | ----- | ----- | AUX ANT, Y-axis |
| 5220.000 | 90.7 | PK | 31.4 | -17.2 | 104.9 | Hori. | ----- | ----- | AUX ANT, Z-axis |
| 5220.000 | 86.1 | PK | 31.4 | -17.2 | 100.3 | Vert. | ----- | ----- | AUX ANT, Z-axis |

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

# Radiated Spurious Emission

**Decision of transmission antenna and worst axis for the radiated spurious emission measurement**
**11a, Middle Band**

## DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/04/23

Company : NEC Corporation
Kind of EUT : Factory Computer as FC-NOTE Series
Model No. : FC-N22A
Serial No. : PP-091
Report No. : 28HE0115-HO-02
Power : AC120V/60Hz
Temp./Humi. : 24deg.C / 40%
Operator : Yutaka Yoshida

Mode / Remarks : 11a Tx Middle Band 5300MHz, 6Mbps(Worst Data Rate), S/A Setting:RBW=1MHz, VBW=3MHz, 3m

LIMIT :

| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Polar. | Limit [dBuV/m] | Margin [dB] | Comment |
|---|---|---|---|---|---|---|---|---|---|
| 5300.000 | 93.6 | PK | 31.4 | -17.1 | 107.9 | Vert. | ----- | ----- | MAIN ANT, X-axis(MAX) |
| 5300.000 | 91.2 | PK | 31.4 | -17.1 | 105.5 | Hori. | ----- | ----- | MAIN ANT, X-axis |
| 5300.000 | 86.5 | PK | 31.4 | -17.1 | 100.8 | Vert. | ----- | ----- | MAIN ANT, Y-axis |
| 5300.000 | 95.0 | PK | 31.4 | -17.1 | 109.3 | Hori. | ----- | ----- | MAIN ANT, Y-axis(MAX) |
| 5300.000 | 89.8 | PK | 31.4 | -17.1 | 104.1 | Vert. | ----- | ----- | MAIN ANT, Z-axis |
| 5300.000 | 87.8 | PK | 31.4 | -17.1 | 102.1 | Hori. | ----- | ----- | MAIN ANT, Z-axis |
| 5300.000 | 93.1 | PK | 31.4 | -17.1 | 107.4 | Vert. | ----- | ----- | AUX ANT, X-axis |
| 5300.000 | 85.2 | PK | 31.4 | -17.1 | 99.5 | Hori. | ----- | ----- | AUX ANT, X-axis |
| 5300.000 | 87.2 | PK | 31.4 | -17.1 | 101.5 | Vert. | ----- | ----- | AUX ANT, Y-axis |
| 5300.000 | 90.0 | PK | 31.4 | -17.1 | 104.3 | Hori. | ----- | ----- | AUX ANT, Y-axis |
| 5300.000 | 86.0 | PK | 31.4 | -17.1 | 100.3 | Vert. | ----- | ----- | AUX ANT, Z-axis |
| 5300.000 | 93.4 | PK | 31.4 | -17.1 | 107.7 | Hori. | ----- | ----- | AUX ANT, Z-axis |

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

# Radiated Spurious Emission (below 1GHz)

## 11a, Tx, 5180MHz

## DATA OF RADIATED EMISSION TEST

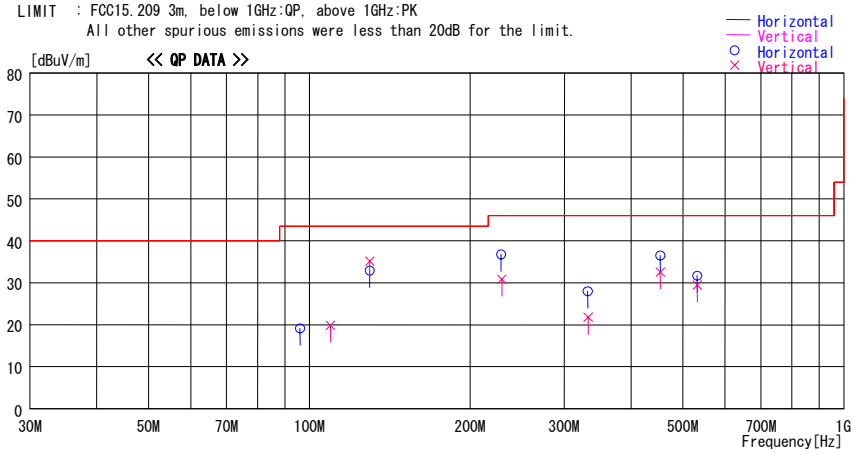
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/04/22

Company : NEC Corporation
Kind of EUT : Factory Computer as FC-NOTE Series
Model No. : FC-N22A
Serial No. : PP-090

Report No. : 28HE0115-HO-02
Power : AC120V/60Hz
Temp./Humi. : 22deg.C / 40%
Operator : Takayuki Shimada

Mode / Remarks : 11a Tx 5180MHz, MAIN ANT, 6Mbps(Worst Data Rate), Hor:Y-axis, Ver:X-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Angle [Deg] | Height [cm] | Polar. | Limit [dBuV/m] | Margin [dB] |
|---|---|---|---|---|---|---|---|---|---|---|
| 96.022 | 33.6 | QP | 9.4 | -23.9 | 19.1 | 211 | 328 | Hori. | 43.5 | 24.4 |
| 109.520 | 32.1 | QP | 11.4 | -23.7 | 19.8 | 6 | 100 | Vert. | 43.5 | 23.7 |
| 129.611 | 42.9 | QP | 13.5 | -23.5 | 32.9 | 289 | 268 | Hori. | 43.5 | 10.6 |
| 129.669 | 45.1 | QP | 13.5 | -23.5 | 35.1 | 154 | 100 | Vert. | 43.5 | 8.4 |
| 228.505 | 42.7 | QP | 16.7 | -22.6 | 36.8 | 82 | 143 | Hori. | 46.0 | 9.3 |
| 229.345 | 36.7 | QP | 16.7 | -22.6 | 30.8 | 455 | 100 | Vert. | 46.0 | 15.2 |
| 332.134 | 32.8 | QP | 17.1 | -21.9 | 28.0 | 100 | 100 | Hori. | 46.0 | 18.0 |
| 332.520 | 26.6 | QP | 17.1 | -21.9 | 21.8 | 160 | 147 | Vert. | 46.0 | 24.2 |
| 453.420 | 38.9 | QP | 18.7 | -21.1 | 36.5 | 243 | 229 | Hori. | 46.0 | 9.5 |
| 453.930 | 34.8 | QP | 18.8 | -21.1 | 32.5 | 321 | 156 | Vert. | 46.0 | 13.5 |
| 531.704 | 32.7 | QP | 19.6 | -20.6 | 31.7 | 219 | 240 | Hori. | 46.0 | 14.3 |
| 532.068 | 30.5 | QP | 19.6 | -20.6 | 29.5 | 0 | 236 | Vert. | 46.0 | 16.5 |

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is rounded off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (below 1GHz)

## 11a, Tx, 5220MHz

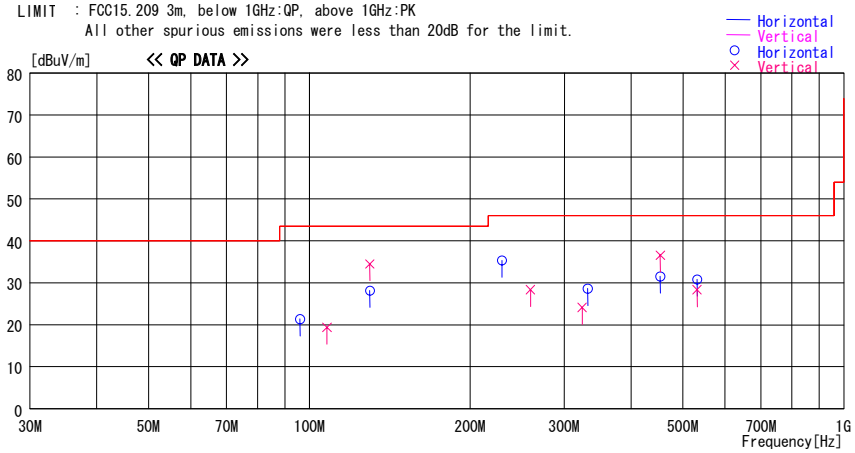
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/04/22

| | | | |
|---|---|---|---|
| Company | : NEC Corporation | Report No. | : 28HE0115-HO-02 |
| Kind of EUT | : Factory Computer as FC-NOTE Series | Power | : AC120V/60Hz |
| Model No. | : FC-N22A | Temp./Humi. | : 22deg.C / 40% |
| Serial No. | : PP-090 | Operator | : Takayuki Shimada |

Mode / Remarks : 11a Tx 5220MHz, MAIN ANT, 6Mbps(Worst Data Rate), Hor:Y-axis, Ver:X-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency | Reading | DET | Antenna Factor | Loss& Gain | Level | Angle | Height | Polar. | Limit | Margin |
|---|---|---|---|---|---|---|---|---|---|---|
| [MHz] | [dBuV] | | [dB/m] | [dB] | [dBuV/m] | [Deg] | [cm] | | [dBuV/m] | [dB] |
| 96.120 | 35.8 | QP | 9.4 | -23.9 | 21.3 | 203 | 328 | Hori. | 43.5 | 22.2 |
| 107.857 | 31.9 | QP | 11.2 | -23.7 | 19.4 | 8 | 100 | Vert. | 43.5 | 24.1 |
| 129.720 | 38.1 | QP | 13.5 | -23.5 | 28.1 | 301 | 269 | Hori. | 43.5 | 15.4 |
| 129.726 | 44.5 | QP | 13.5 | -23.5 | 34.5 | 163 | 100 | Vert. | 43.5 | 9.0 |
| 229.520 | 41.2 | QP | 16.7 | -22.6 | 35.3 | 71 | 146 | Hori. | 46.0 | 10.7 |
| 259.312 | 33.2 | QP | 17.6 | -22.4 | 28.4 | 359 | 100 | Vert. | 46.0 | 17.6 |
| 332.082 | 33.4 | QP | 17.1 | -21.9 | 28.6 | 276 | 100 | Hori. | 46.0 | 17.4 |
| 324.188 | 29.0 | QP | 17.0 | -21.9 | 24.1 | 187 | 196 | Vert. | 46.0 | 21.9 |
| 453.792 | 33.8 | QP | 18.8 | -21.1 | 31.5 | 272 | 101 | Hori. | 46.0 | 14.5 |
| 453.840 | 38.9 | QP | 18.8 | -21.1 | 36.6 | 359 | 149 | Vert. | 46.0 | 9.4 |
| 531.704 | 31.8 | QP | 19.6 | -20.6 | 30.8 | 214 | 239 | Hori. | 46.0 | 15.2 |
| 531.998 | 29.3 | QP | 19.6 | -20.6 | 28.3 | 0 | 216 | Vert. | 46.0 | 17.7 |

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is rounded off to one or two decimal places, so some differences might be observed.

**UL Japan, Inc.**
**Head Office EMC Lab.**
**4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN**
**Telephone : +81 596 24 8116**
**Facsimile : +81 596 24 8124**

# Radiated Spurious Emission (below 1GHz)

## 11a, Tx, 5240MHz

### DATA OF RADIATED EMISSION TEST

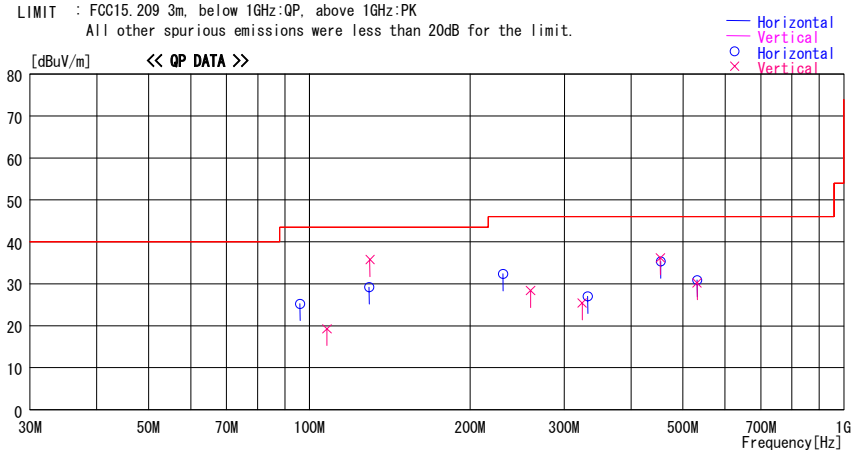
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/04/22

Company : NEC Corporation
Kind of EUT : Factory Computer as FC-NOTE Series
Model No. : FC-N22A
Serial No. : PP-090

Report No. : 28HE0115-HO-02
Power : AC120V/60Hz
Temp./Humi. : 22deg.C / 40%
Operator : Takayuki Shimada

Mode / Remarks : 11a Tx 5240MHz, MAIN ANT, 6Mbps(Worst Data Rate), Hor:Y-axis, Ver:X-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Angle [Deg] | Height [cm] | Polar. | Limit [dBuV/m] | Margin [dB] |
|---|---|---|---|---|---|---|---|---|---|---|
| 96.120 | 39.7 | QP | 9.4 | -23.9 | 25.2 | 198 | 324 | Hori. | 43.5 | 18.3 |
| 107.886 | 31.8 | QP | 11.2 | -23.7 | 19.3 | 11 | 100 | Vert. | 43.5 | 24.2 |
| 129.492 | 39.2 | QP | 13.5 | -23.5 | 29.2 | 282 | 275 | Hori. | 43.5 | 14.3 |
| 129.856 | 45.8 | QP | 13.5 | -23.5 | 35.8 | 159 | 100 | Vert. | 43.5 | 7.7 |
| 230.506 | 38.2 | QP | 16.7 | -22.6 | 32.3 | 71 | 146 | Hori. | 46.0 | 13.7 |
| 259.400 | 33.2 | QP | 17.6 | -22.4 | 28.4 | 359 | 100 | Vert. | 46.0 | 17.6 |
| 331.980 | 31.8 | QP | 17.1 | -21.9 | 27.0 | 280 | 100 | Hori. | 46.0 | 19.0 |
| 324.188 | 30.3 | QP | 17.0 | -21.9 | 25.4 | 179 | 185 | Vert. | 46.0 | 20.6 |
| 454.302 | 37.6 | QP | 18.8 | -21.1 | 35.3 | 28 | 100 | Hori. | 46.0 | 10.7 |
| 454.000 | 38.5 | QP | 18.8 | -21.1 | 36.2 | 358 | 148 | Vert. | 46.0 | 9.8 |
| 531.964 | 31.9 | QP | 19.6 | -20.6 | 30.9 | 217 | 249 | Hori. | 46.0 | 15.1 |
| 531.998 | 31.2 | QP | 19.6 | -20.6 | 30.2 | 0 | 236 | Vert. | 46.0 | 15.8 |

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is rounded off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (below 1GHz)

## 11a, Tx, 5260MHz

DATA OF RADIATED EMISSION TEST

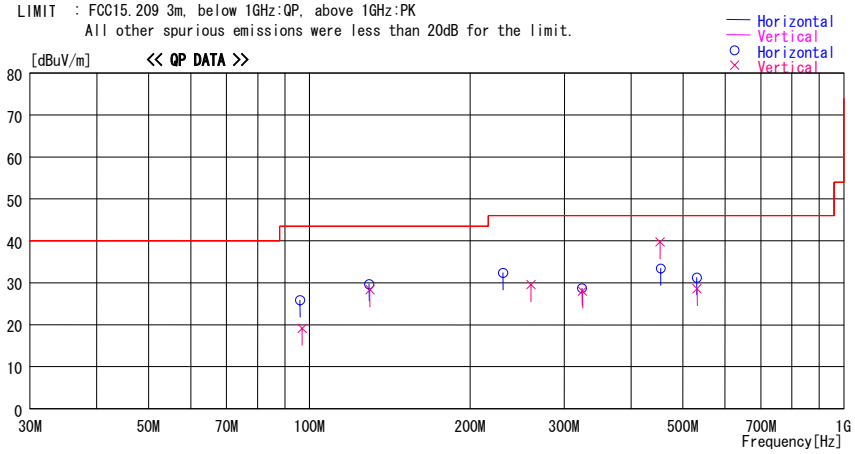
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/04/23

Company : NEC Corporation
Kind of EUT : Factory Computer as FC-NOTE Series
Model No. : FC-N22A
Serial No. : PP-090

Report No. : 28HE0115-HO-02
Power : AC120V/60Hz
Temp./Humi. : 22deg.C / 40%
Operator : Takayuki Shimada

Mode / Remarks : 11a Tx 5260MHz, MAIN ANT, 6Mbps(Worst Data Rate), Hor:Y-axis, Ver:X-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Angle [Deg] | Height [cm] | Polar. | Limit [dBuV/m] | Margin [dB] |
|---|---|---|---|---|---|---|---|---|---|---|
| 96.058 | 40.4 | QP | 9.4 | -23.9 | 25.9 | 216 | 331 | Hori. | 43.5 | 17.6 |
| 96.952 | 33.4 | QP | 9.6 | -23.9 | 19.1 | 160 | 371 | Vert. | 43.5 | 24.4 |
| 129.492 | 39.7 | QP | 13.5 | -23.5 | 29.7 | 294 | 265 | Hori. | 43.5 | 13.9 |
| 129.837 | 38.3 | QP | 13.5 | -23.5 | 28.3 | 192 | 100 | Vert. | 43.5 | 15.2 |
| 230.506 | 38.2 | QP | 16.7 | -22.6 | 32.3 | 71 | 146 | Hori. | 46.0 | 13.7 |
| 259.800 | 34.3 | QP | 17.6 | -22.4 | 29.5 | 265 | 276 | Vert. | 46.0 | 16.5 |
| 323.600 | 33.6 | QP | 17.0 | -21.9 | 28.7 | 280 | 100 | Hori. | 46.0 | 17.3 |
| 324.680 | 32.9 | QP | 17.0 | -21.9 | 28.0 | 360 | 217 | Vert. | 46.0 | 18.0 |
| 454.058 | 35.7 | QP | 18.8 | -21.1 | 33.4 | 242 | 219 | Hori. | 46.0 | 12.6 |
| 453.300 | 42.1 | QP | 18.7 | -21.1 | 39.7 | 359 | 158 | Vert. | 46.0 | 6.3 |
| 531.286 | 32.2 | QP | 19.6 | -20.6 | 31.2 | 338 | 100 | Hori. | 46.0 | 14.8 |
| 531.848 | 29.6 | QP | 19.6 | -20.6 | 28.6 | 157 | 174 | Vert. | 46.0 | 17.4 |

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is rounded off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (below 1GHz)

## 11a, Tx, 5300MHz

DATA OF RADIATED EMISSION TEST

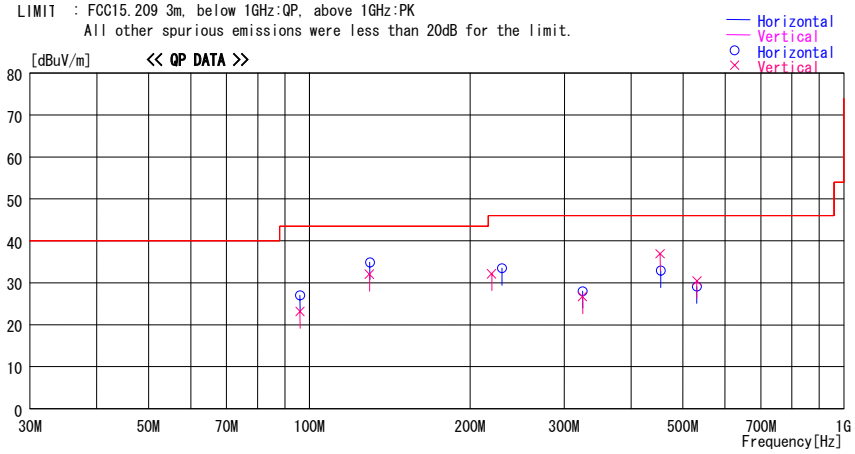
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/04/23

Company : NEC Corporation
Kind of EUT : Factory Computer as FC-NOTE Series
Model No. : FC-N22A
Serial No. : PP-090

Report No. : 28HE0115-HO-02
Power : AC120V/60Hz
Temp./Humi. : 22deg.C / 40%
Operator : Takayuki Shimada

Mode / Remarks : 11a Tx 5300MHz, MAIN ANT, 6Mbps(Worst Data Rate), Hor:Y-axis, Ver:X-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Angle [Deg] | Height [cm] | Polar. | Limit [dBuV/m] | Margin [dB] |
|---|---|---|---|---|---|---|---|---|---|---|
| 96.063 | 41.5 | QP | 9.4 | -23.9 | 27.0 | 213 | 333 | Hori. | 43.5 | 16.5 |
| 96.063 | 37.7 | QP | 9.4 | -23.9 | 23.2 | 148 | 343 | Vert. | 43.5 | 20.3 |
| 129.854 | 44.8 | QP | 13.5 | -23.5 | 34.8 | 298 | 285 | Hori. | 43.5 | 8.7 |
| 129.502 | 42.1 | QP | 13.5 | -23.5 | 32.1 | 180 | 100 | Vert. | 43.5 | 11.5 |
| 229.506 | 39.4 | QP | 16.7 | -22.6 | 33.5 | 91 | 152 | Hori. | 46.0 | 12.5 |
| 219.407 | 38.4 | QP | 16.6 | -22.8 | 32.2 | 51 | 100 | Vert. | 46.0 | 13.8 |
| 324.566 | 32.9 | QP | 17.0 | -21.9 | 28.0 | 256 | 102 | Hori. | 46.0 | 18.0 |
| 324.574 | 31.6 | QP | 17.0 | -21.9 | 26.7 | 181 | 186 | Vert. | 46.0 | 19.3 |
| 454.180 | 35.2 | QP | 18.8 | -21.1 | 32.9 | 359 | 246 | Hori. | 46.0 | 13.1 |
| 453.556 | 39.3 | QP | 18.7 | -21.1 | 36.9 | 359 | 149 | Vert. | 46.0 | 9.1 |
| 531.460 | 30.1 | QP | 19.6 | -20.6 | 29.1 | 359 | 100 | Hori. | 46.0 | 16.9 |
| 531.316 | 31.4 | QP | 19.6 | -20.6 | 30.4 | 157 | 152 | Vert. | 46.0 | 15.6 |

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is rounded off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (below 1GHz)

## 11a, Tx, 5320MHz

DATA OF RADIATED EMISSION TEST

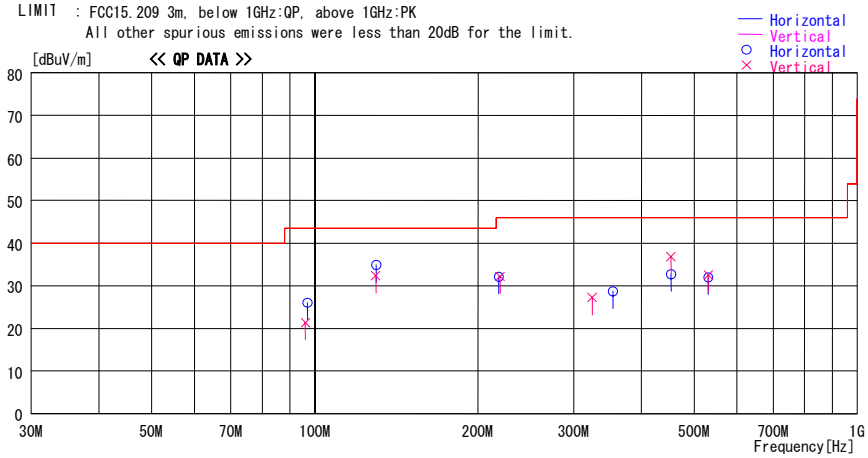
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/04/23

Company : NEC Corporation
Kind of EUT : Factory Computer as FC-NOTE Series
Model No. : FC-N22A
Serial No. : PP-090

Report No. : 28HE0115-HO-02
Power : AC120V/60Hz
Temp./Humi. : 22deg.C / 40%
Operator : Takayuki Shimada

Mode / Remarks : 11a Tx 5320MHz, MAIN ANT, 6Mbps(Worst Data Rate), Hor:Y-axis, Ver:X-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Angle [Deg] | Height [cm] | Polar. | Limit [dBuV/m] | Margin [dB] |
|---|---|---|---|---|---|---|---|---|---|---|
| 96.966 | 40.4 | QP | 9.6 | -23.9 | 26.1 | 220 | 322 | Hori. | 43.5 | 17.4 |
| 96.079 | 35.9 | QP | 9.4 | -23.9 | 21.4 | 170 | 369 | Vert. | 43.5 | 22.1 |
| 129.854 | 44.9 | QP | 13.5 | -23.5 | 34.9 | 276 | 266 | Hori. | 43.5 | 8.6 |
| 129.504 | 42.4 | QP | 13.5 | -23.5 | 32.4 | 197 | 100 | Vert. | 43.5 | 11.1 |
| 218.419 | 38.4 | QP | 16.6 | -22.8 | 32.2 | 87 | 156 | Hori. | 46.0 | 13.8 |
| 219.424 | 38.4 | QP | 16.6 | -22.8 | 32.2 | 52 | 100 | Vert. | 46.0 | 13.8 |
| 354.556 | 33.0 | QP | 17.4 | -21.7 | 28.7 | 268 | 100 | Hori. | 46.0 | 17.3 |
| 324.544 | 32.2 | QP | 17.0 | -21.9 | 27.3 | 359 | 242 | Vert. | 46.0 | 18.7 |
| 453.552 | 35.2 | QP | 18.7 | -21.1 | 32.8 | 359 | 231 | Hori. | 46.0 | 13.2 |
| 453.570 | 39.2 | QP | 18.7 | -21.1 | 36.8 | 359 | 144 | Vert. | 46.0 | 9.2 |
| 531.296 | 33.0 | QP | 19.6 | -20.6 | 32.0 | 359 | 100 | Hori. | 46.0 | 14.0 |
| 531.292 | 33.5 | QP | 19.6 | -20.6 | 32.5 | 175 | 137 | Vert. | 46.0 | 13.5 |

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is rounded off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (below 1GHz)

## 11a, Tx, 5260MHz + BT Hopping

DATA OF RADIATED EMISSION TEST

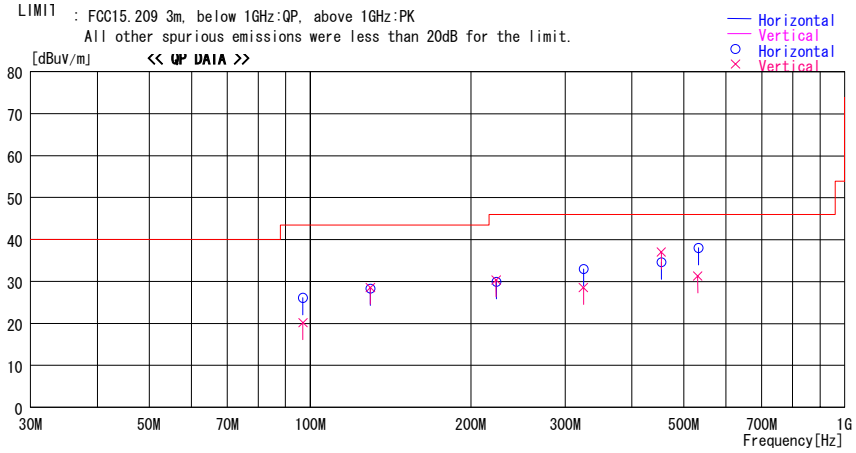
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/04/25

Company : NEC Corporation
Kind of EUT : Factory Computer as FC-NOTE Series
Model No. : FC-N22A
Serial No. : PP-090

Report No. : 28HE0115-HO-02
Power : AC120V/60Hz
Temp./Humi. : 23deg.C / 60%
Operator : Takayuki Shimada

Mode / Remarks : 11a Tx 5260MHz 6Mbps(Worst), MAIN ANT(Worst) & BT(EDR) Hopping mode, EUT Position: Hor:Y, Ver:X

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Angle [Deg] | Height [cm] | Polar. | Limit [dBuV/m] | Margin [dB] |
|---|---|---|---|---|---|---|---|---|---|---|
| 96.967 | 40.4 | QP | 9.6 | -23.9 | 26.1 | 201 | 340 | Hori. | 43.5 | 17.4 |
| 96.950 | 34.5 | QP | 9.6 | -23.9 | 20.2 | 125 | 334 | Vert. | 43.5 | 23.3 |
| 129.633 | 38.3 | QP | 13.5 | -23.5 | 28.3 | 281 | 277 | Hori. | 43.5 | 15.2 |
| 129.617 | 38.6 | QP | 13.5 | -23.5 | 28.6 | 51 | 100 | Vert. | 43.5 | 14.9 |
| 222.930 | 36.5 | QP | 16.6 | -22.7 | 30.4 | 47 | 100 | Vert. | 46.0 | 15.6 |
| 222.956 | 36.0 | QP | 16.6 | -22.7 | 29.9 | 90 | 172 | Hori. | 46.0 | 16.1 |
| 324.550 | 33.4 | QP | 17.0 | -21.9 | 28.5 | 4 | 222 | Vert. | 46.0 | 17.5 |
| 324.590 | 37.9 | QP | 17.0 | -21.9 | 33.0 | 263 | 100 | Hori. | 46.0 | 13.0 |
| 454.185 | 36.9 | QP | 18.8 | -21.1 | 34.6 | 25 | 100 | Hori. | 46.0 | 11.4 |
| 454.304 | 39.3 | QP | 18.8 | -21.1 | 37.0 | 338 | 147 | Vert. | 46.0 | 9.0 |
| 531.507 | 32.3 | QP | 19.6 | -20.6 | 31.3 | 353 | 293 | Vert. | 46.0 | 14.7 |
| 532.954 | 39.0 | QP | 19.6 | -20.6 | 38.0 | 267 | 100 | Hori. | 46.0 | 8.0 |

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is rounded off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (below 1GHz)

## 11a, Rx, 5220MHz

DATA OF RADIATED EMISSION TEST

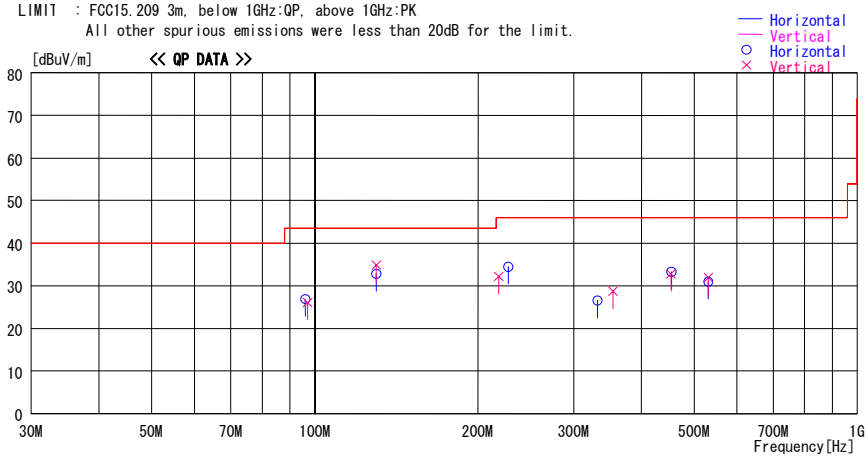
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/04/23

Company : NEC Corporation
Kind of EUT : Factory Computer as FC-NOTE Series
Model No. : FC-N22A
Serial No. : PP-090

Report No. : 28HE0115-HO-02
Power : AC120V/60Hz
Temp./Humi. : 22deg.C / 40%
Operator : Takayuki Shimada

Mode / Remarks : 11a Rx 5220MHz, MAIN ANT, 6Mbps(Worst Data Rate), Hor:Y-axis, Ver:X-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Angle [Deg] | Height [cm] | Polar. | Limit [dBuV/m] | Margin [dB] |
|---|---|---|---|---|---|---|---|---|---|---|
| 96.060 | 41.4 | QP | 9.4 | -23.9 | 26.9 | 208 | 328 | Hori. | 43.5 | 16.6 |
| 96.966 | 40.4 | QP | 9.6 | -23.9 | 26.1 | 220 | 322 | Vert. | 43.5 | 17.4 |
| 129.851 | 42.8 | QP | 13.5 | -23.5 | 32.8 | 281 | 263 | Hori. | 43.5 | 10.7 |
| 129.854 | 44.9 | QP | 13.5 | -23.5 | 34.9 | 276 | 266 | Vert. | 43.5 | 8.6 |
| 227.465 | 40.4 | QP | 16.7 | -22.6 | 34.5 | 88 | 148 | Hori. | 46.0 | 11.5 |
| 218.419 | 38.4 | QP | 16.6 | -22.8 | 32.2 | 87 | 156 | Vert. | 46.0 | 13.8 |
| 332.026 | 31.4 | QP | 17.1 | -21.9 | 26.6 | 291 | 100 | Hori. | 46.0 | 19.4 |
| 354.556 | 33.0 | QP | 17.4 | -21.7 | 28.7 | 268 | 100 | Vert. | 46.0 | 17.3 |
| 454.174 | 35.6 | QP | 18.8 | -21.1 | 33.3 | 359 | 240 | Hori. | 46.0 | 12.7 |
| 453.552 | 35.2 | QP | 18.7 | -21.1 | 32.8 | 359 | 231 | Vert. | 46.0 | 13.2 |
| 531.348 | 32.0 | QP | 19.6 | -20.6 | 31.0 | 0 | 100 | Hori. | 46.0 | 15.0 |
| 531.296 | 33.0 | QP | 19.6 | -20.6 | 32.0 | 359 | 100 | Vert. | 46.0 | 14.0 |

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is rounded off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (below 1GHz)

## 11a, Rx, 5300MHz

DATA OF RADIATED EMISSION TEST

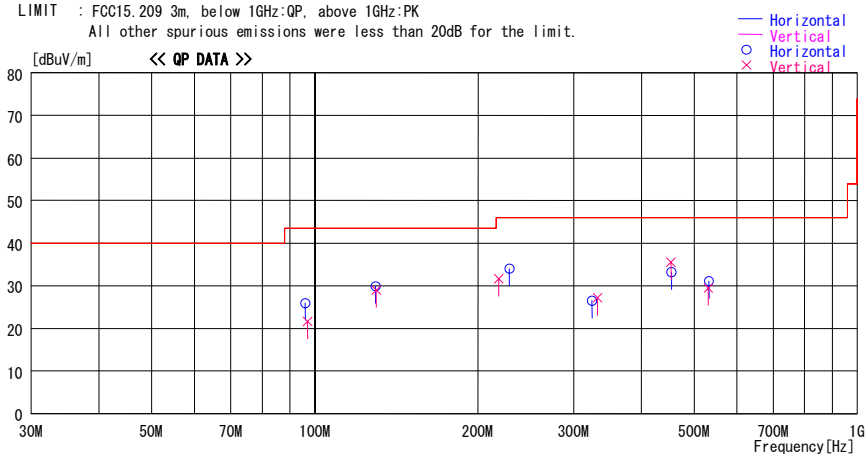
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/04/23

Company : NEC Corporation
Kind of EUT : Factory Computer as FC-NOTE Series
Model No. : FC-N22A
Serial No. : PP-090

Report No. : 28HE0115-HO-02
Power : AC120V/60Hz
Temp./Humi. : 22deg.C / 40%
Operator : Takayuki Shimada

Mode / Remarks : 11a Rx 5300MHz, MAIN ANT, 6Mbps(Worst Data Rate), Hor:Y-axis, Ver:X-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.




| Frequency [MHz] | Reading [dBuV] | DET | Antenna Factor [dB/m] | Loss& Gain [dB] | Level [dBuV/m] | Angle [Deg] | Height [cm] | Polar. | Limit [dBuV/m] | Margin [dB] |
|---|---|---|---|---|---|---|---|---|---|---|
| 96.040 | 40.4 | QP | 9.4 | -23.9 | 25.9 | 196 | 320 | Hori. | 43.5 | 17.6 |
| 96.966 | 35.9 | QP | 9.6 | -23.9 | 21.6 | 180 | 259 | Vert. | 43.5 | 21.9 |
| 129.491 | 39.9 | QP | 13.5 | -23.5 | 29.9 | 301 | 265 | Hori. | 43.5 | 13.6 |
| 129.854 | 39.0 | QP | 13.5 | -23.5 | 29.0 | 92 | 100 | Vert. | 43.5 | 14.5 |
| 228.460 | 40.0 | QP | 16.7 | -22.6 | 34.1 | 93 | 149 | Hori. | 46.0 | 12.0 |
| 218.419 | 37.8 | QP | 16.6 | -22.8 | 31.6 | 32 | 100 | Vert. | 46.0 | 14.4 |
| 324.226 | 31.4 | QP | 17.0 | -21.9 | 26.5 | 89 | 100 | Hori. | 46.0 | 19.5 |
| 331.966 | 32.0 | QP | 17.1 | -21.9 | 27.2 | 189 | 182 | Vert. | 46.0 | 18.8 |
| 454.190 | 35.5 | QP | 18.8 | -21.1 | 33.2 | 354 | 100 | Hori. | 46.0 | 12.8 |
| 453.585 | 37.8 | QP | 18.8 | -21.1 | 35.5 | 359 | 165 | Vert. | 46.0 | 10.5 |
| 532.900 | 32.1 | QP | 19.6 | -20.6 | 31.1 | 353 | 100 | Hori. | 46.0 | 14.9 |
| 531.260 | 30.5 | QP | 19.6 | -20.6 | 29.5 | 162 | 175 | Vert. | 46.0 | 16.5 |

CHART:WITH FACTOR ANT TYPE : -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The test result is rounded off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (above 1GHz: restricted band)

## 11a, Tx, 5180MHz

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart C 15.209 / RSS-210 Section 2.6 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 3m / 1m / 0.5m |
| MODEL | : FC-N22A | DATE | : 04/22/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 24deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 40% |
| MODE | : Transmitting (11a / 6Mbps / CH36:5180MHz) | ENGINEER | : Yutaka Yoshida |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**6Mbps**
**PK DETECT**

| No. | Freq. | Reading | | Ant. | Amp. | Cable | Filter | Result | | Limit | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | Gain | Loss | | HOR | VER | PK | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | [dB] |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)** | | | | | | | | | | | | |
| 1 | 5150.0 | 60.4 | 61.7 | 31.4 | 30.9 | 3.6 | 0.0 | 64.5 | 65.8 | 73.9 | 9.4 | 8.1 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)** | | | | | | | | | | | | |
| 2 | 15540.0 | 45.0 | 44.7 | 38.3 | 31.6 | 7.2 | 0.6 | 50.0 | 49.7 | 73.9 | 23.9 | 24.2 |
| 3 | 20720.0 | 46.3 | 46.8 | 37.6 | 31.7 | 8.1 | 0.0 | 50.8 | 51.3 | 73.9 | 23.1 | 22.6 |
| **Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | |
| 4 | Above 26500.0 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |

**AV DETECT**

| No. | Freq. | Reading | | Ant. | Amp. | Cable | Filter | Result | | Limit | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | Gain | Loss | | HOR | VER | AV | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | [dB] |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)** | | | | | | | | | | | | |
| 1 | 5150.0 | 38.6 | 39.2 | 31.4 | 30.9 | 3.6 | 0.0 | 42.7 | 43.3 | 53.9 | 11.2 | 10.6 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)** | | | | | | | | | | | | |
| 2 | 15540.0 | 33.2 | 33.3 | 38.3 | 31.6 | 7.2 | 0.6 | 38.2 | 38.3 | 53.9 | 15.7 | 15.6 |
| 3 | 20720.0 | 33.8 | 33.8 | 37.6 | 31.7 | 8.1 | 0.0 | 38.3 | 38.3 | 53.9 | 15.6 | 15.6 |
| **Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | |
| 4 | Above 26500.0 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB
* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* Filter : 7.5 to 18GHz
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

# Radiated Spurious Emission (above 1GHz: restricted band)

## 11a, Tx, 5220MHz

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart C 15.209 / RSS-210 Section 2.6 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 3m / 1m / 0.5m |
| MODEL | : FC-N22A | DATE | : 04/22/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 24deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 40% |
| MODE | : Transmitting (11a / 6Mbps / CH44:5220MHz) | ENGINEER | : Yutaka Yoshida |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**6Mbps**
**PK DETECT**

| No. | Freq. | Reading | | Ant. | Amp. | Cable | | Result | | Limit | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | Gain | Loss | Filter | HOR | VER | PK | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | [dB] |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)** | | | | | | | | | | | | |
| 1 | Below 10000.0 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | |
| 2 | 15660.0 | 46.1 | 45.5 | 37.9 | 31.6 | 7.2 | 0.6 | 50.7 | 50.1 | 73.9 | 23.2 | 23.8 |
| 3 | 20880.0 | 46.4 | 45.4 | 37.6 | 31.8 | 8.1 | 0.0 | 50.8 | 49.8 | 73.9 | 23.1 | 24.1 |
| **Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | |
| 4 | 31320.0 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |

**AV DETECT**

| No. | Freq. | Reading | | Ant. | Amp. | Cable | | Result | | Limit | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | Gain | Loss | Filter | HOR | VER | AV | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | [dB] |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)** | | | | | | | | | | | | |
| 1 | Below 10000.0 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | |
| 2 | 15660.0 | 33.2 | 33.2 | 37.9 | 31.6 | 7.2 | 0.6 | 37.8 | 37.8 | 53.9 | 16.1 | 16.1 |
| 3 | 20880.0 | 33.0 | 33.0 | 37.6 | 31.8 | 8.1 | 0.0 | 37.4 | 37.4 | 53.9 | 16.5 | 16.5 |
| **Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | |
| 4 | 31320.0 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* Filter : 7.5 to 18GHz
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

# Radiated Spurious Emission (above 1GHz: restricted band)

## 11a, Tx, 5240MHz

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart C 15.209 / RSS-210 Section 2.6 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 3m / 1m / 0.5m |
| MODEL | : FC-N22A | DATE | : 04/22/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 24deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 40% |
| MODE | : Transmitting (11a / 6Mbps / CH48:5240MHz) | ENGINEER | : Yutaka Yoshida |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**6Mbps**
**PK DETECT**

| No. | Freq. | Reading | | Ant. | Amp. | Cable | | Result | | Limit | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | Gain | Loss | Filter | HOR | VER | PK | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | [dB] |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)** | | | | | | | | | | | | |
| 1 | Below 10000.0 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac (1m)** | | | | | | | | | | | | |
| 2 | 15720.0 | 45.4 | 44.6 | 37.7 | 31.5 | 7.2 | 0.6 | 49.9 | 49.1 | 73.9 | 24.0 | 24.8 |
| 3 | 20960.0 | 45.5 | 46.4 | 37.6 | 31.9 | 8.1 | 0.0 | 49.8 | 50.7 | 73.9 | 24.1 | 23.2 |
| **Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | |
| 4 | 31440.0 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |

**AV DETECT**

| No. | Freq. | Reading | | Ant. | Amp. | Cable | | Result | | Limit | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | Gain | Loss | Filter | HOR | VER | AV | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | [dB] |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)** | | | | | | | | | | | | |
| 1 | Below 10000.0 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | |
| 2 | 15720.0 | 33.1 | 32.9 | 37.7 | 31.5 | 7.2 | 0.6 | 37.6 | 37.4 | 53.9 | 16.3 | 16.5 |
| 3 | 20960.0 | 33.1 | 33.1 | 37.6 | 31.9 | 8.1 | 0.0 | 37.4 | 37.4 | 53.9 | 16.5 | 16.5 |
| **Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | |
| 4 | 31440.0 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* Filter : 7.5 to 18GHz
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

# Radiated Spurious Emission (above 1GHz: restricted band)

## 11a, Tx, 5260MHz

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart C 15.209 / RSS-210 Section 2.6 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 3m / 1m / 0.5m |
| MODEL | : FC-N22A | DATE | : 04/22/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 24deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 40% |
| MODE | : Transmitting (11a / 6Mbps / CH52:5260MHz) | ENGINEER | : Yutaka Yoshida |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**6Mbps**
**PK DETECT**

| No. | Freq. | Reading | | Ant. | Amp. | Cable | | Result | | Limit | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | Gain | Loss | Filter | HOR | VER | PK | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | [dB] |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)** | | | | | | | | | | | | |
| 1 | Below 10000.0 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | |
| 2 | 15780.0 | 44.0 | 44.1 | 37.5 | 31.5 | 7.2 | 0.6 | 48.3 | 48.4 | 73.9 | 25.6 | 25.5 |
| 3 | 21040.0 | 45.4 | 45.8 | 37.6 | 31.9 | 8.1 | 0.0 | 49.7 | 50.1 | 73.9 | 24.2 | 23.8 |
| **Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | |
| 4 | 31560.0 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |

**AV DETECT**

| No. | Freq. | Reading | | Ant. | Amp. | Cable | | Result | | Limit | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | Gain | Loss | Filter | HOR | VER | AV | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | [dB] |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)** | | | | | | | | | | | | |
| 1 | Below 10000.0 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | |
| 2 | 15780.0 | 32.6 | 32.6 | 37.5 | 31.5 | 7.2 | 0.6 | 36.9 | 36.9 | 53.9 | 17.0 | 17.0 |
| 3 | 21040.0 | 33.0 | 33.0 | 37.6 | 31.9 | 8.1 | 0.0 | 37.3 | 37.3 | 53.9 | 16.6 | 16.6 |
| **Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | |
| 4 | 31560.0 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB
* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* Filter : 7.5 to 18GHz
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

# Radiated Spurious Emission (above 1GHz: restricted band)

## 11a, Tx, 5300MHz

Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart C 15.209 / RSS-210 Section 2.6 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 3m / 1m / 0.5m |
| MODEL | : FC-N22A | DATE | : 04/22/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 24deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 40% |
| MODE | : Transmitting (11a / 6Mbps / CH60:5300MHz) | ENGINEER | : Yutaka Yoshida |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**6Mbps**
**PK DETECT**

| No. | Freq. | Reading | | Ant. | Amp. | Cable | | Result | | Limit | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | Gain | Loss | Filter | HOR | VER | PK | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | [dB] |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)** | | | | | | | | | | | | |
| 1 | Below 10000.0 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | |
| 2 | 10600.0 | 45.6 | 49.8 | 39.4 | 32.8 | 6.1 | 0.5 | 49.3 | 53.5 | 73.9 | 24.6 | 20.4 |
| 3 | 15900.0 | 44.9 | 44.0 | 37.1 | 31.5 | 7.3 | 0.6 | 48.9 | 48.0 | 73.9 | 25.0 | 25.9 |
| 4 | 21200.0 | 45.4 | 46.6 | 37.7 | 31.8 | 8.2 | 0.0 | 50.0 | 51.2 | 73.9 | 23.9 | 22.7 |
| **Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | |
| 5 | 31800.0 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |

**AV DETECT**

| No. | Freq. | Reading | | Ant. | Amp. | Cable | | Result | | Limit | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | Gain | Loss | Filter | HOR | VER | AV | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | [dB] |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)** | | | | | | | | | | | | |
| 1 | Below 10000.0 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | |
| 2 | 10600.0 | 33.7 | 36.8 | 39.4 | 32.8 | 6.1 | 0.5 | 37.4 | 40.5 | 53.9 | 16.5 | 13.4 |
| 3 | 15900.0 | 32.4 | 32.4 | 37.1 | 31.5 | 7.3 | 0.6 | 36.4 | 36.4 | 53.9 | 17.5 | 17.5 |
| 4 | 21200.0 | 32.9 | 32.9 | 37.7 | 31.8 | 8.2 | 0.0 | 37.5 | 37.5 | 53.9 | 16.4 | 16.4 |
| **Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | |
| 5 | 31800.0 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* Filter : 7.5 to 18GHz
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

# Radiated Spurious Emission (above 1GHz: restricted band)

## 11a, Tx, 5320MHz

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart C 15.209 / RSS-210 Section 2.6 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 3m / 1m / 0.5m |
| MODEL | : FC-N22A | DATE | : 04/22/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 24deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 40% |
| MODE | : Transmitting (11a / 6Mbps / CH64:5320MHz) | ENGINEER | : Yutaka Yoshida |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**6Mbps**
**PK DETECT**

| No. | Freq. | Reading | | Ant. | Amp. | Cable | Atten. or | Result | | Limit | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | Gain | Loss | Filter | HOR | VER | PK | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | [dB] |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)** | | | | | | | | | | | | |
| 1 | 5350.0 | 60.2 | 59.7 | 31.5 | 30.9 | 3.7 | 0.0 | 64.5 | 64.0 | 73.9 | 9.4 | 9.9 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | |
| 2 | 10640.0 | 46.8 | 50.8 | 39.4 | 32.8 | 6.1 | 0.5 | 50.5 | 54.5 | 73.9 | 23.4 | 19.4 |
| 3 | 15960.0 | 44.0 | 44.4 | 36.9 | 31.5 | 7.2 | 0.6 | 47.7 | 48.1 | 73.9 | 26.2 | 25.8 |
| 4 | 21280.0 | 45.6 | 45.0 | 37.8 | 31.8 | 8.2 | 0.0 | 50.3 | 49.7 | 73.9 | 23.6 | 24.2 |
| **Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | |
| 5 | Above 26500.0 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |

**AV DETECT**

| No. | Freq. | Reading | | Ant. | Amp. | Cable | Atten. or | Result | | Limit | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | Gain | Loss | Filter | HOR | VER | AV | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | [dB] |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)** | | | | | | | | | | | | |
| 1 | 5350.0 | 39.8 | 39.6 | 31.5 | 30.9 | 3.7 | 0.0 | 44.1 | 43.9 | 53.9 | 9.8 | 10.0 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | |
| 2 | 10640.0 | 34.1 | 37.9 | 39.4 | 32.8 | 6.1 | 0.5 | 37.8 | 41.6 | 53.9 | 16.1 | 12.3 |
| 3 | 15960.0 | 32.4 | 32.4 | 36.9 | 31.5 | 7.2 | 0.6 | 36.1 | 36.1 | 53.9 | 17.8 | 17.8 |
| 4 | 21280.0 | 33.0 | 33.0 | 37.8 | 31.8 | 8.2 | 0.0 | 37.7 | 37.7 | 53.9 | 16.2 | 16.2 |
| **Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | |
| 5 | Above 26500.0 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* Filter : 7.5 to 18GHz
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

# Radiated Spurious Emission (above 1GHz: restricted band)

## 11a, Tx, 5260MHz + BT Hopping

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart C 15.209 / RSS-210 Section 2.6 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 3m / 1m / 0.5m |
| MODEL | : FC-N22A | DATE | : 04/25/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 23deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 33% |
| MODE | : Transmitting (11a / 6Mbps / CH52:5260MHz + BT Hopping) | ENGINEER | : Takayuki Shimada |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**6Mbps**
**PK DETECT**

| No. | Freq. | Reading | | Ant. | Amp. | Cable | | Result | | Limit | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | Gain | Loss | Filter | HOR | VER | PK | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | [dB] |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)** | | | | | | | | | | | | |
| 1 | Below 10000.0 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | |
| 2 | 15780.0 | 41.0 | 41.9 | 37.5 | 31.5 | 7.2 | 0.6 | 45.3 | 46.2 | 73.9 | 28.6 | 27.7 |
| 3 | 21040.0 | 43.7 | 43.7 | 37.6 | 31.9 | 8.1 | 0.0 | 48.0 | 48.0 | 73.9 | 25.9 | 25.9 |
| **Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | |
| 4 | 31560.0 | NS | NS | - | - | - | - | - | - | 73.9 | - | - |

**AV DETECT**

| No. | Freq. | Reading | | Ant. | Amp. | Cable | | Result | | Limit | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | Gain | Loss | Filter | HOR | VER | AV | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | [dB] |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)** | | | | | | | | | | | | |
| 0 | Below 10000.0 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | |
| 1 | 15780.0 | 27.9 | 27.9 | 37.5 | 31.5 | 7.2 | 0.6 | 32.2 | 32.2 | 53.9 | 21.7 | 21.7 |
| 2 | 21040.0 | 30.1 | 30.1 | 37.6 | 31.9 | 8.1 | 0.0 | 34.4 | 34.4 | 53.9 | 19.5 | 19.5 |
| **Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | |
| 3 | 31560.0 | NS | NS | - | - | - | - | - | - | 53.9 | - | - |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB
* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* Filter : 7.5 to 18GHz
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

# Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
## *used conversion formula
## 11a, Tx, 5180MHz

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart E 15.407 / RSS-210 A9.3 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 1m / 0.5m |
| MODEL | : FC-N22A | DATE | : 04/22/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 24deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 40% |
| MODE | : Transmitting (11a / 6Mbps / CH36:5180MHz) | ENGINEER | : Yutaka Yoshida |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**PK DETECT**

| No. | Freq. [MHz] | S/A Reading [dBuV] | | Antenna Factor | Amp. Gain | Cable Loss | ATT or Filter Loss | Electric Field Strength [dBuV/m] | | Result (EIRP) [dBm] | | Lmit [dBm] | Margin [dB] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | [dB/m] | [dB] | [dB] | [dB] | HOR | VER | HOR | VER | | HOR | VER |
| **Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | | | |
| 1 | 10360.00 | 44.1 | 44.4 | 39.1 | 32.6 | 6.1 | 0.5 | 47.7 | 48.0 | -47.5 | -47.2 | -27.0 | 20.5 | 20.2 |
| 2 | 25900.00 | NS | NS | - | - | - | - | - | - | - | - | -27.0 | - | - |
| **Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | | | |
| 3 | 31080.00 | NS | NS | - | - | - | - | - | - | - | - | -27.0 | - | - |
| 4 | 36260.00 | 43.3 | 43.0 | 41.7 | 24.6 | 17.0 | 0.0 | 61.9 | 61.6 | -33.3 | -33.6 | -27.0 | 6.3 | 6.6 |

Resrult(EIRP[dBm])=10*LOG({ 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) * 10 ^ (-6) * Distance:3[m] ) ^ 2 } / 30) *10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB
* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
## *used conversion formula
## 11a, Tx, 5220MHz

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart E 15.407 / RSS-210 A9.3 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 1m / 0.5m |
| MODEL | : FC-N22A | DATE | : 04/22/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 24deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 40% |
| MODE | : Transmitting (11a / 6Mbps / CH36:5220MHz) | ENGINEER | : Yutaka Yoshida |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**PK DETECT**

| No. | Freq. [MHz] | S/A Reading [dBuV] | | Antenna Factor | Amp. Gain | Cable Loss | ATT or Filter Loss | Electric Field Strength [dBuV/m] | | Result (EIRP) [dBm] | | Lmit [dBm] | Margin [dB] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | [dB/m] | [dB] | [dB] | [dB] | HOR | VER | HOR | VER | | HOR | VER |
| **Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | | | |
| 1 | 10440.00 | 44.0 | 44.3 | 39.2 | 32.7 | 6.1 | 0.5 | 47.6 | 47.9 | -47.6 | -47.3 | -27.0 | 20.6 | 20.3 |
| 2 | 26100.00 | NS | NS | - | - | - | - | - | - | - | - | -27.0 | - | - |
| **Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | | | |
| 3 | 36540.00 | 42.3 | 43.7 | 41.8 | 24.4 | 17.0 | 0.0 | 61.2 | 62.6 | -34.0 | -32.6 | -27.0 | 7.0 | 5.6 |

Resrult(EIRP[dBm])=10*LOG({ 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) * 10 ^ (-6) * Distance:3[m] ) ^ 2 } / 30) *10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB
* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
## *used conversion formula
## 11a, Tx, 5240MHz

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart E 15.407 / RSS-210 A9.3 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 1m / 0.5m |
| MODEL | : FC-N22A | DATE | : 04/22/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 24deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 40% |
| MODE | : Transmitting (11a / 6Mbps / CH36:5240MHz) | ENGINEER | : Yutaka Yoshida |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**PK DETECT**

| No. | Freq. [MHz] | S/A Reading [dBuV] | | Antenna Factor | Amp. Gain | Cable Loss | ATT or Filter Loss | Electric Field Strength [dBuV/m] | | Result (EIRP) [dBm] | | Lmit [dBm] | Margin [dB] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | [dB/m] | [dB] | [dB] | [dB] | HOR | VER | HOR | VER | | HOR | VER |
| **Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | | | |
| 1 | 10480.00 | 43.2 | 44.0 | 39.3 | 32.7 | 6.1 | 0.5 | 46.9 | 47.7 | -48.3 | -47.5 | -27.0 | 21.3 | 20.5 |
| 2 | 26200.00 | NS | NS | - | - | - | - | - | - | - | - | -27.0 | - | - |
| **Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | | | |
| 3 | 36680.00 | 43.9 | 43.5 | 41.9 | 24.4 | 17.0 | 0.0 | 62.9 | 62.5 | -32.3 | -32.7 | -27.0 | 5.3 | 5.7 |

Resrult(EIRP[dBm])=10*LOG({ 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) * 10 ^ (-6) * Distance:3[m] ) ^ 2 } / 30) *10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB
* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
## *used conversion formula
## 11a, Tx, 5260MHz

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart E 15.407 / RSS-210 A9.3 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 1m / 0.5m |
| MODEL | : FC-N22A | DATE | : 04/22/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 24deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 40% |
| MODE | : Transmitting (11a / 6Mbps / CH36:5260MHz) | ENGINEER | : Yutaka Yoshida |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**PK DETECT**

| No. | Freq. [MHz] | S/A Reading [dBuV] | | Antenna Factor | Amp. Gain | Cable Loss | ATT or Filter Loss | Electric Field Strength [dBuV/m] | | Result (EIRP) [dBm] | | Lmit [dBm] | Margin [dB] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | [dB/m] | [dB] | [dB] | [dB] | HOR | VER | HOR | VER | | HOR | VER |
| **Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | | | |
| 1 | 10520.00 | 44.8 | 47.5 | 39.3 | 32.7 | 6.1 | 0.5 | 48.5 | 51.2 | -46.7 | -44.0 | -27.0 | 19.7 | 17.0 |
| 2 | 26300.00 | NS | NS | - | - | - | - | - | - | - | - | -27.0 | - | - |
| **Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | | | |
| 3 | 36820.00 | 43.5 | 43.1 | 42.0 | 24.3 | 17.1 | 0.0 | 62.8 | 62.4 | -32.4 | -32.8 | -27.0 | 5.4 | 5.8 |

Resrult(EIRP[dBm])=10*LOG({ 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) * 10 ^ (-6) * Distance:3[m] ) ^ 2 } / 30) *10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB
* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
## *used conversion formula
## 11a, Tx, 5300MHz

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart E 15.407 / RSS-210 A9.3 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 1m / 0.5m |
| MODEL | : FC-N22A | DATE | : 04/22/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 24deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 40% |
| MODE | : Transmitting (11a / 6Mbps / CH36:5300MHz) | ENGINEER | : Yutaka Yoshida |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**PK DETECT**

| No. | Freq. [MHz] | S/A Reading [dBuV] | | Antenna Factor [dB/m] | Amp. Gain [dB] | Cable Loss [dB] | ATT or Filter Loss [dB] | Electric Field Strength [dBuV/m] | | Result (EIRP) [dBm] | | Lmit [dBm] | Margin [dB] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | | | | | HOR | VER | HOR | VER | | HOR | VER |
| **Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | | | |
| 1 | 26500.00 | NS | NS | - | - | - | - | - | - | - | - | -27.0 | - | - |
| **Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | | | |
| 2 | 37100.00 | 44.2 | 44.0 | 42.2 | 24.1 | 17.1 | 0.0 | 63.9 | 63.7 | -31.3 | -31.5 | -27.0 | 4.3 | 4.5 |

Resrult(EIRP[dBm])=10*LOG({ 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) * 10 ^ (-6) * Distance:3[m] ) ^ 2 } / 30) *10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB
* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
## *used conversion formula
## 11a, Tx, 5320MHz

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart E 15.407 / RSS-210 A9.3 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 1m / 0.5m |
| MODEL | : FC-N22A | DATE | : 04/22/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 24deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 40% |
| MODE | : Transmitting (11a / 6Mbps / CH36:5320MHz) | ENGINEER | : Yutaka Yoshida |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**PK DETECT**

| No. | Freq. [MHz] | S/A Reading [dBuV] | | Antenna Factor | Amp. Gain | Cable Loss | ATT or Filter Loss | Electric Field Strength [dBuV/m] | | Result (EIRP) [dBm] | | Lmit [dBm] | Margin [dB] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | [dB/m] | [dB] | [dB] | [dB] | HOR | VER | HOR | VER | | HOR | VER |
| **Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | | | |
| 1 | 26600.00 | NS | NS | - | - | - | - | - | - | - | - | -27.0 | - | - |
| **Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | | | |
| 2 | 31920.00 | NS | NS | - | - | - | - | - | - | - | - | -27.0 | - | - |
| 3 | 37240.00 | 44.9 | 45.5 | 42.3 | 24.0 | 17.2 | 0.0 | 64.9 | 65.5 | -30.3 | -29.7 | -27.0 | 3.3 | 2.7 |

Resrult(EIRP[dBm])=10*LOG({ 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) * 10 ^ (-6) * Distance:3[m] ) ^ 2 } / 30) *10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB
* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
## *used conversion formula
## 11a, Tx, 5260MHz + BT Hopping

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart E 15.407/ RSS-210 A9.3 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 1m / 0.5m |
| MODEL | : FC-N22A | DATE | : 04/25/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 23deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 33% |
| MODE | : Transmitting (11a / 6Mbps / CH36:5260MHz + BT Hopping) | ENGINEER | : Takayuki Shimada |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**PK DETECT**

| No. | Freq. [MHz] | S/A Reading [dBuV] | | Antenna Factor | Amp. Gain | Cable Loss | ATT or Filter Loss | Electric Field Strength [dBuV/m] | | Result (EIRP) [dBm] | | Lmit [dBm] | Margin [dB] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | [dB/m] | [dB] | [dB] | [dB] | HOR | VER | HOR | VER | | HOR | VER |
| **Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)** | | | | | | | | | | | | | | |
| 1 | 10520.00 | 46.3 | 48.6 | 39.3 | 32.7 | 6.1 | 0.5 | 50.0 | 52.3 | -54.8 | -52.5 | -27.0 | 27.8 | 25.5 |
| 2 | 26300.00 | NS | NS | - | - | - | - | - | - | - | - | -27.0 | - | - |
| **Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)** | | | | | | | | | | | | | | |
| 3 | 36820.00 | 44.1 | 43.8 | 42.0 | 24.3 | 17.1 | 0.0 | 63.4 | 63.1 | -31.8 | -32.1 | -27.0 | 4.8 | 5.1 |

Resrult(EIRP[dBm])=10*LOG((( 10 ^ ( Electric Field Strength [dBuV/m] / 20 ) * 10 ^ (-6) * Distance:3[m] ) ^ 2 ) / 30) *10^3)

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB
* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

# Radiated Spurious Emission (above 1GHz)

## 11a, Rx, 5220MHz

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart C 15.209 / RSS-210 Section 2.6 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 3m / 1m |
| MODEL | : FC-N22A | DATE | : 04/22/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 24deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 40% |
| MODE | : Recieving (11a / 6Mbps / CH44:5220MHz) | ENGINEER | : Yutaka Yoshida |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**PK DETECT** (RBW: 1MHz, VBW: 1MHz)

| No. | FREQ | S/A READING | | ANT | AMP | CABLE | Hi-Pass | RESULT | | Limit | MARGIN | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | GAIN | LOSS | Filter | HOR | VER | PK | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 1621.0 | 56.9 | 56.4 | 25.7 | 33.1 | 2.4 | 0.0 | 51.9 | 51.4 | 73.9 | 22.0 | 22.5 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)** | | | | | | | | | | | | |
| 2 | 10440.0 | 43.5 | 43.7 | 39.2 | 32.7 | 5.5 | 0.0 | 46.0 | 46.2 | 73.9 | 27.9 | 27.7 |
| 3 | 15660.0 | 45.3 | 45.7 | 37.9 | 31.6 | 6.5 | 0.0 | 48.6 | 49.0 | 73.9 | 25.3 | 24.9 |

**AV DETECT** (RBW: 1MHz, VBW: 10Hz)

| No. | FREQ | S/A READING | | ANT | AMP | CABLE | Hi-Pass | RESULT | | Limit | MARGIN | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | GAIN | LOSS | Filter | HOR | VER | AV | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 1621.0 | 35.0 | 35.3 | 25.7 | 33.1 | 2.4 | 0.0 | 30.0 | 30.3 | 53.9 | 23.9 | 23.6 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)** | | | | | | | | | | | | |
| 2 | 10440.0 | 31.2 | 31.2 | 39.2 | 32.7 | 5.5 | 0.0 | 33.7 | 33.7 | 53.9 | 20.2 | 20.2 |
| 3 | 15660.0 | 33.1 | 33.0 | 37.9 | 31.6 | 6.5 | 0.0 | 36.4 | 36.3 | 53.9 | 17.5 | 17.6 |

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

# Radiated Spurious Emission
## 11a, Rx, 5300MHz

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

| | | | |
|---|---|---|---|
| COMPANY | : NEC Corporation | REGULATION | : FCC Part15 Subpart C 15.209 / RSS-210 Section 2.6 |
| EQUIPMENT | : Factory Computer as FC-NOTE Series | TEST DISTANCE | : 3m / 1m |
| MODEL | : FC-N22A | DATE | : 04/22/08 |
| SAMPLE NO. | : PP-N090 | TEMPERATURE | : 24deg. C |
| POWER | : AC120V/60Hz | HUMIDITY | : 40% |
| MODE | : Recieving (11a / 6Mbps / CH60:5300MHz) | ENGINEER | : Yutaka Yoshida |
| POSITION | : Hor_Y-axis, Ver_X-axis | | |

**PK DETECT** (RBW: 1MHz, VBW: 1MHz)

| No. | FREQ | S/A READING | | ANT | AMP | CABLE | Hi-Pass | RESULT | | Limit | MARGIN | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | GAIN | LOSS | Filter | HOR | VER | PK | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss** | | | | | | | | | | | | |
| 1 | 1621.0 | 57.6 | 56.6 | 25.7 | 33.1 | 2.4 | 0.0 | 52.6 | 51.6 | 73.9 | 21.3 | 22.3 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1m)** | | | | | | | | | | | | |
| 2 | 10600.0 | 43.4 | 44.8 | 39.4 | 32.8 | 5.5 | 0.0 | 46.0 | 47.4 | 73.9 | 27.9 | 26.5 |
| 3 | 15900.0 | 44.9 | 44.7 | 37.1 | 31.5 | 6.6 | 0.0 | 47.6 | 47.4 | 73.9 | 26.3 | 26.5 |

**AV DETECT** (RBW: 1MHz, VBW: 10Hz)

| No. | FREQ | S/A READING | | ANT | AMP | CABLE | Hi-Pass | RESULT | | Limit | MARGIN | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HOR | VER | Factor | GAIN | LOSS | Filter | HOR | VER | AV | HOR | VER |
| | [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dB] | [dBuV/m] | | [dBuV/m] | [dB] | |
| **Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss(1m)** | | | | | | | | | | | | |
| 1 | 1621.0 | 35.9 | 35.3 | 25.7 | 33.1 | 2.4 | 0.0 | 30.9 | 30.3 | 53.9 | 23.0 | 23.6 |
| **Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac** | | | | | | | | | | | | |
| 2 | 10600.0 | 31.3 | 31.3 | 39.4 | 32.8 | 5.5 | 0.0 | 33.9 | 33.9 | 53.9 | 20.0 | 20.0 |
| 3 | 15900.0 | 32.4 | 32.4 | 37.1 | 31.5 | 6.6 | 0.0 | 35.1 | 35.1 | 53.9 | 18.8 | 18.8 |

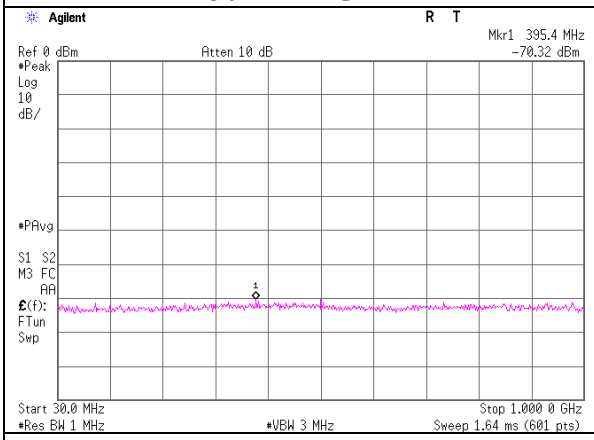
Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

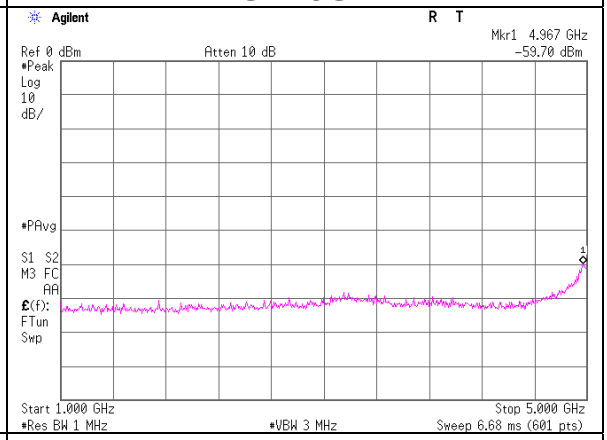
# Conducted Spurious Emission(DSSS and other forms of modulation)

## Tx, Ch: 36, 5180MHz

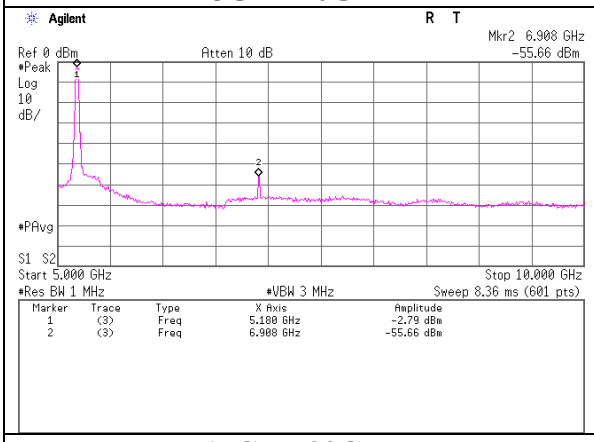
### 30MHz-1GHz



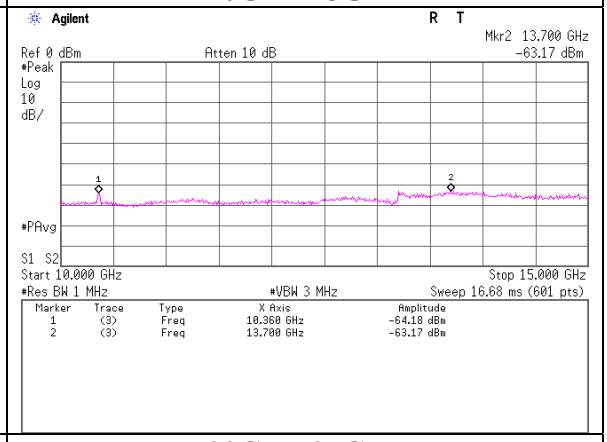

### 1GHz-5GHz



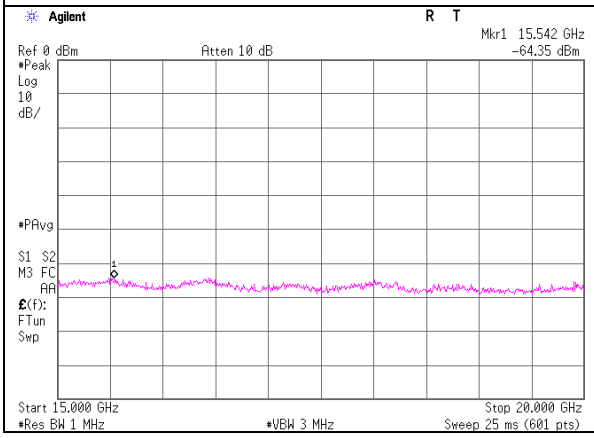

### 5GHz-10GHz



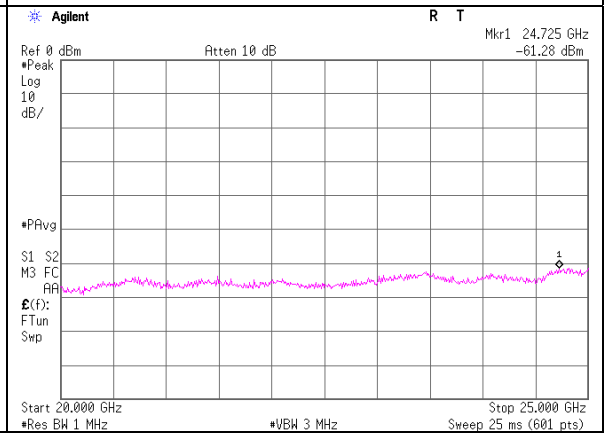

### 10GHz-15GHz




### 15GHz-20GHz



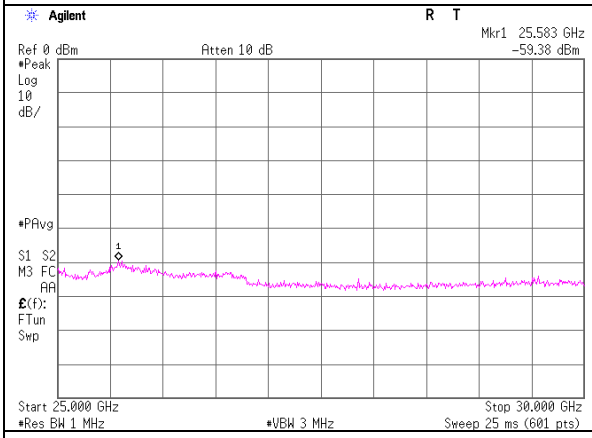

### 20GHz-25GHz



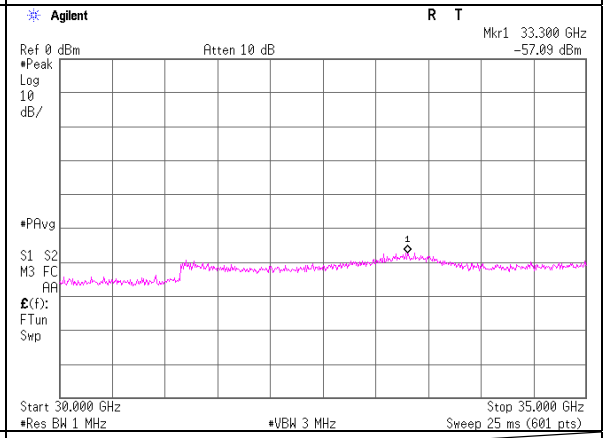
## Conducted Spurious Emission(DSSS and other forms of modulation)

### Tx, Ch: 36, 5180MHz

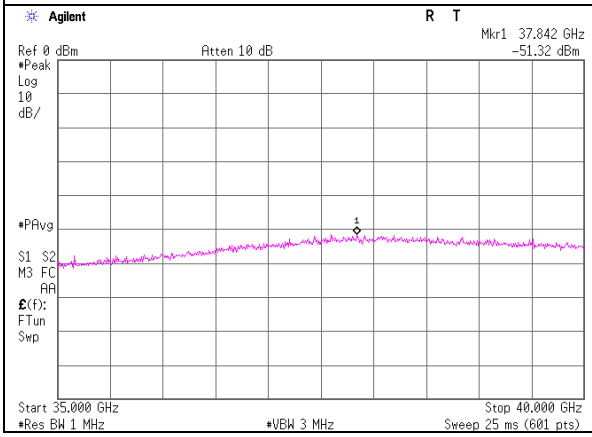
**25GHz-30GHz**

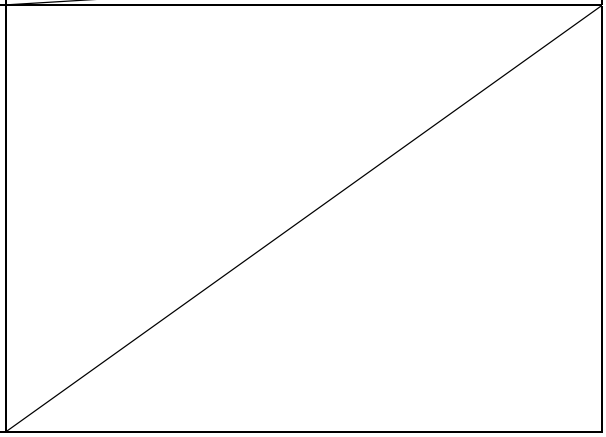



**30GHz-35GHz**




**35GHz-40GHz**



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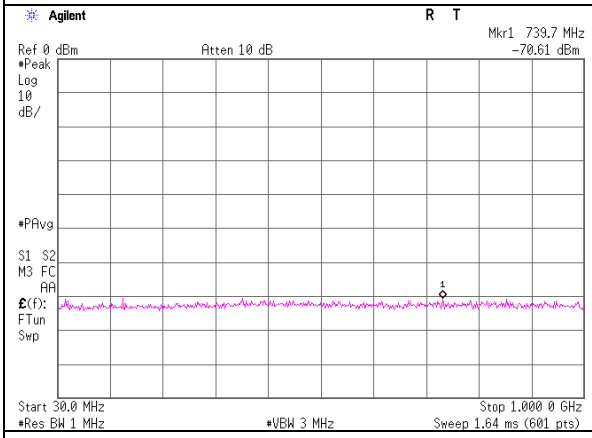
**Facsimile : +81 596 24 8124**

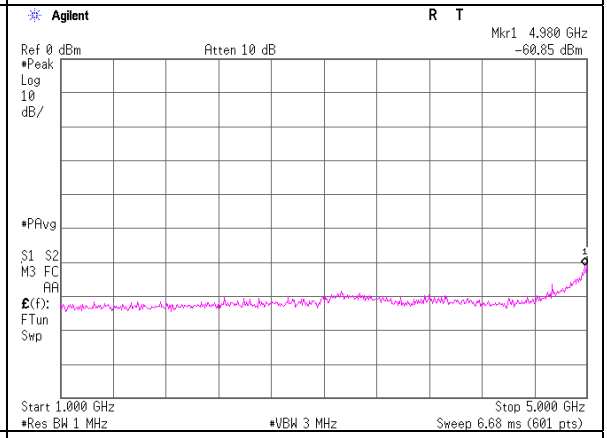
# Conducted Spurious Emission(DSSS and other forms of modulation)

## Tx, Ch: 44, 5220MHz

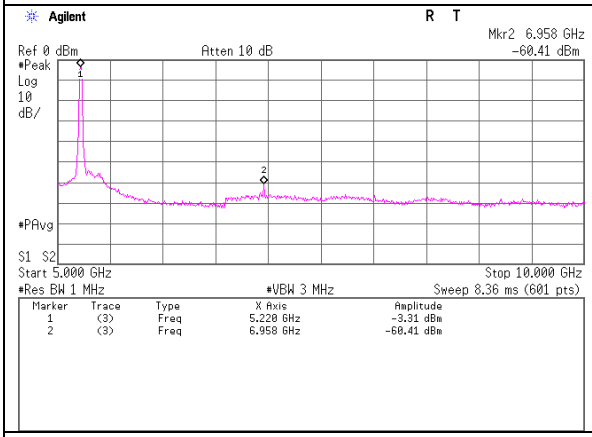
### 30MHz-1GHz



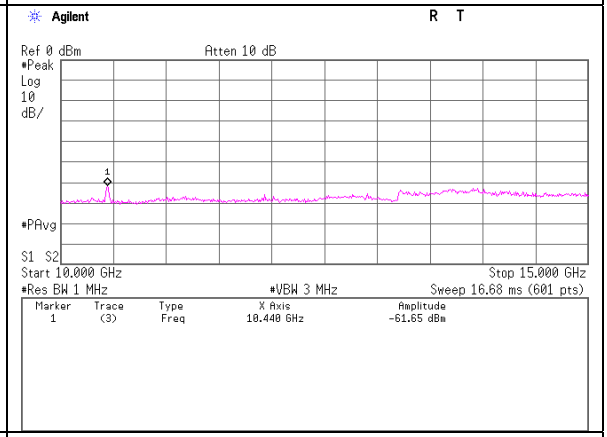

### 1GHz-5GHz



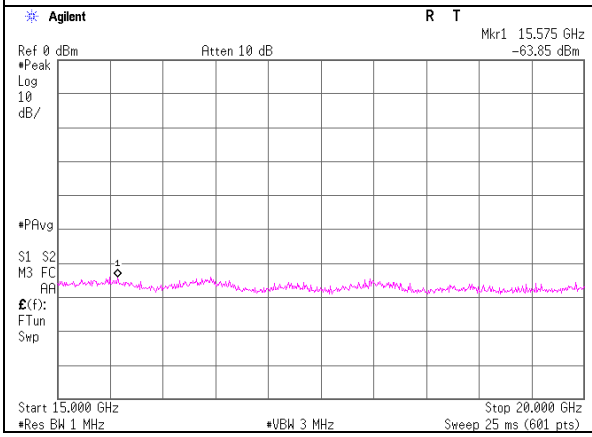

### 5GHz-10GHz



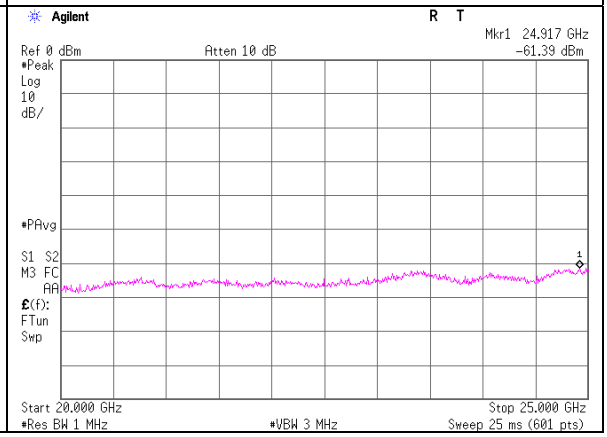

### 10GHz-15GHz




### 15GHz-20GHz



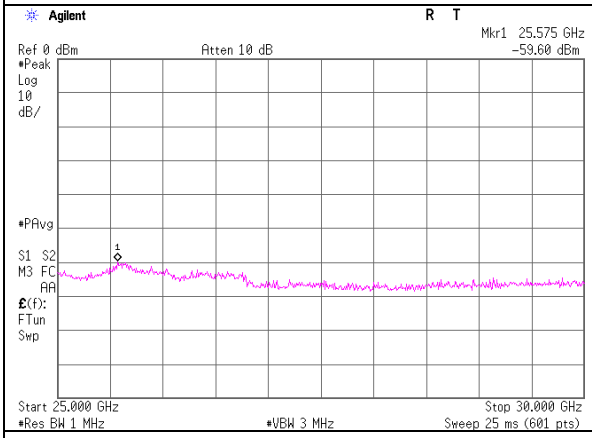

### 20GHz-25GHz



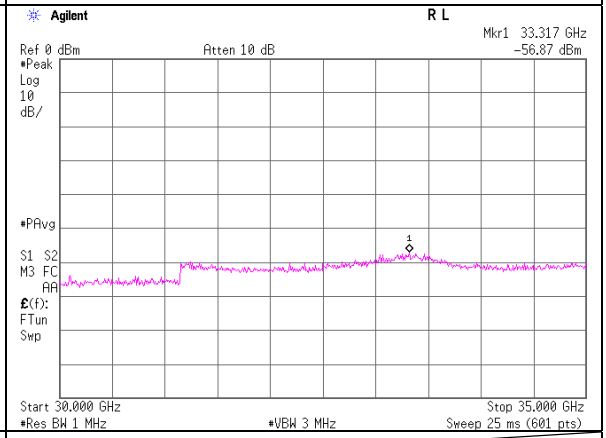
## Conducted Spurious Emission(DSSS and other forms of modulation)

### Tx, Ch: 44, 5220MHz

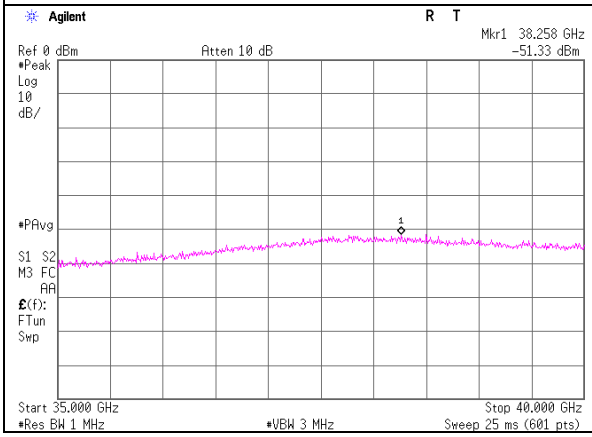
**25GHz-30GHz**

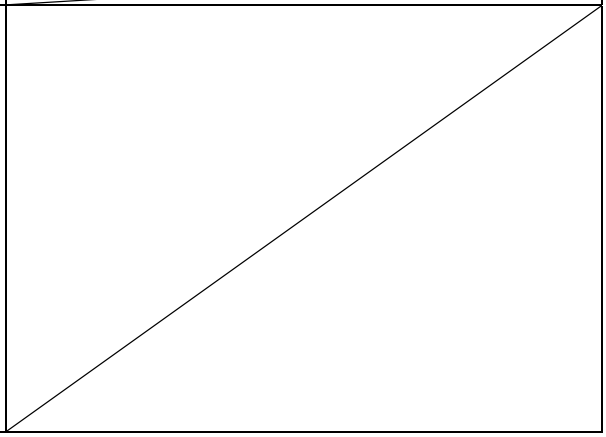



**30GHz-35GHz**




**35GHz-40GHz**

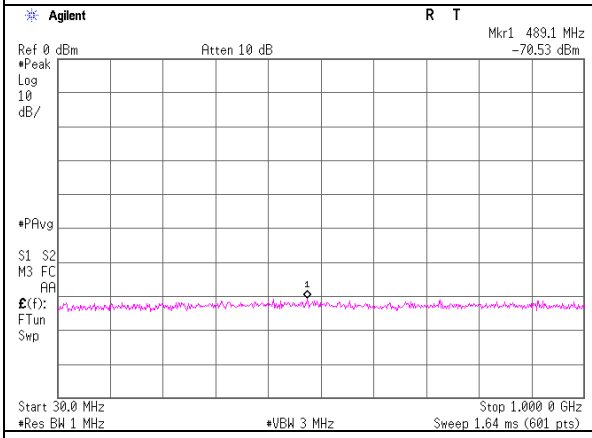


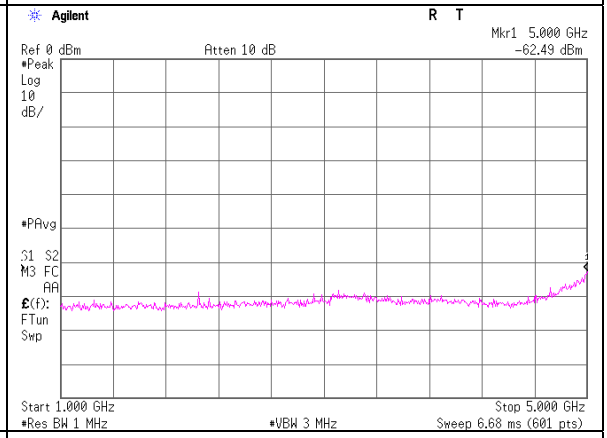
## Conducted Spurious Emission(DSSS and other forms of modulation)

### Tx, Ch: 48, 5240MHz

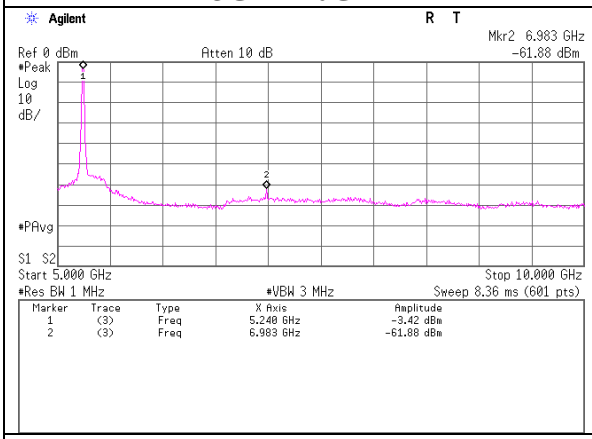
#### 30MHz-1GHz



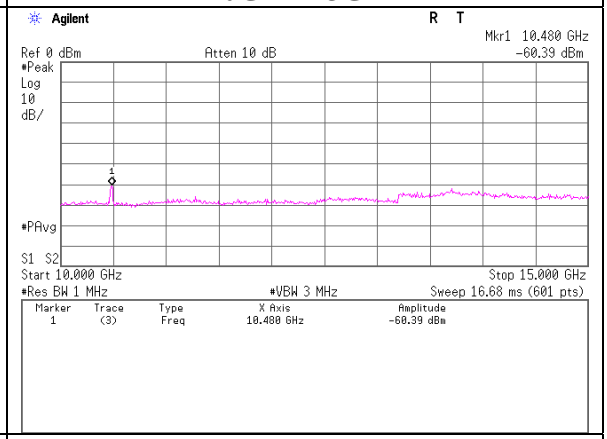

#### 1GHz-5GHz



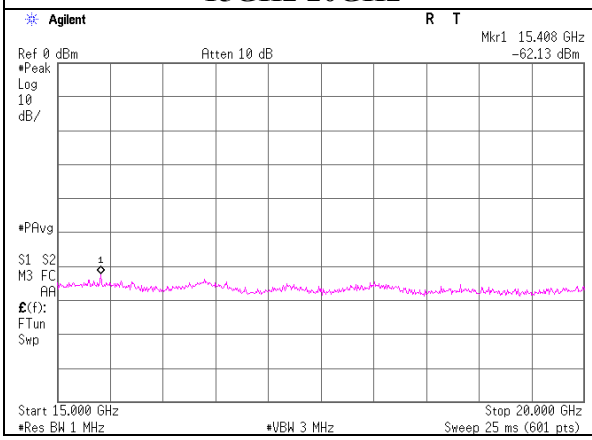

#### 5GHz-10GHz



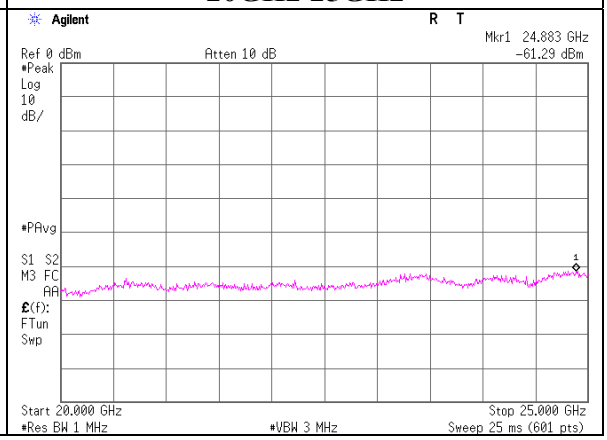

#### 10GHz-15GHz




#### 15GHz-20GHz



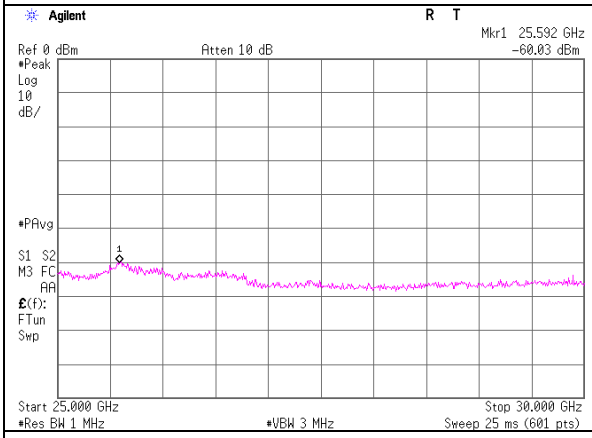

#### 20GHz-25GHz



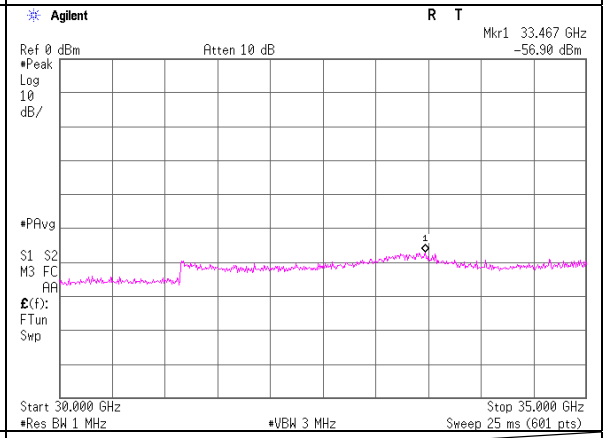
## Conducted Spurious Emission(DSSS and other forms of modulation)

### Tx, Ch: 48, 5240MHz

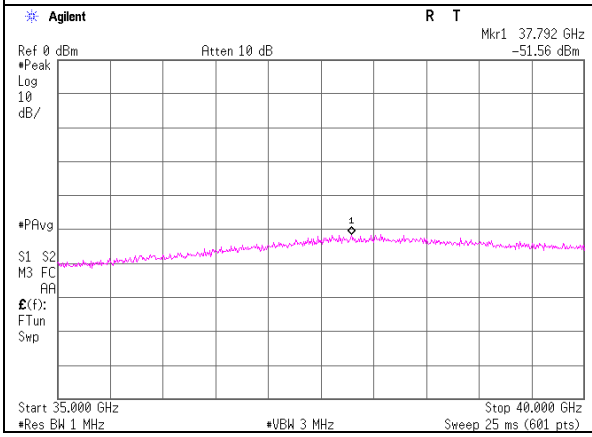
**25GHz-30GHz**

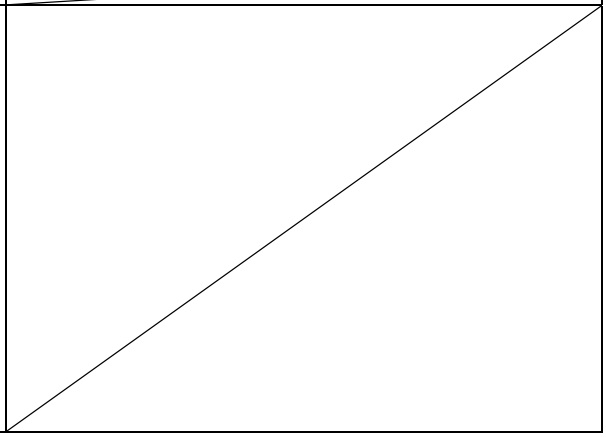



**30GHz-35GHz**




**35GHz-40GHz**

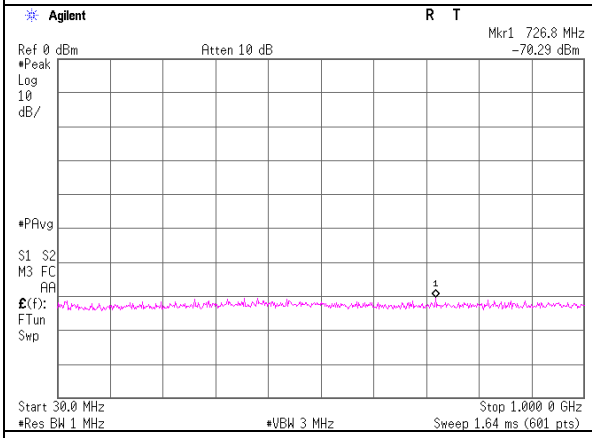


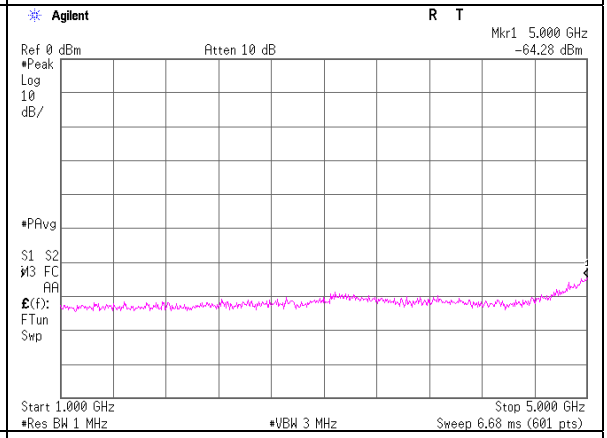
## Conducted Spurious Emission(DSSS and other forms of modulation)

### Tx, Ch: 52, 5260MHz

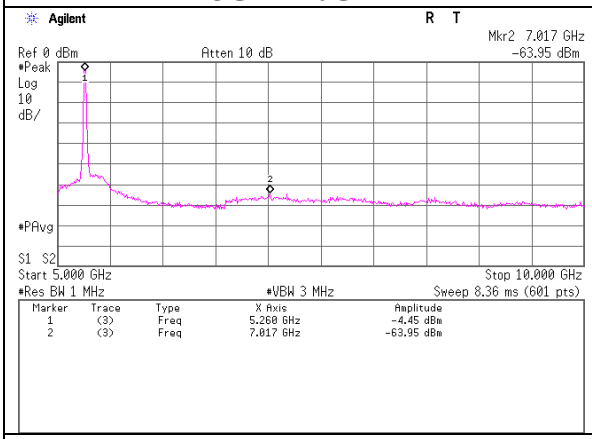
#### 30MHz-1GHz



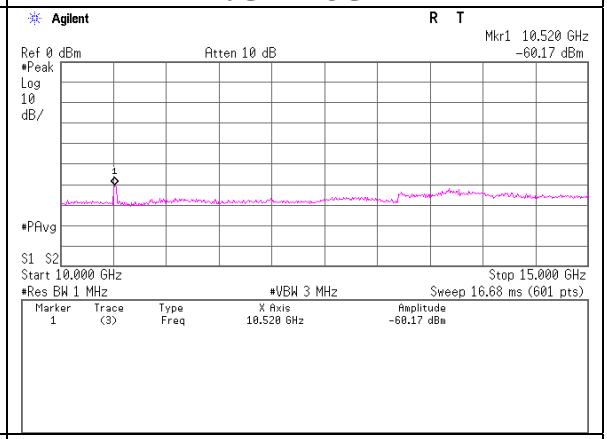

#### 1GHz-5GHz



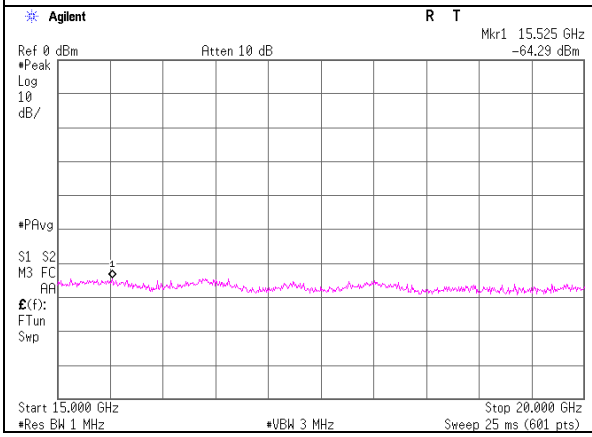

#### 5GHz-10GHz



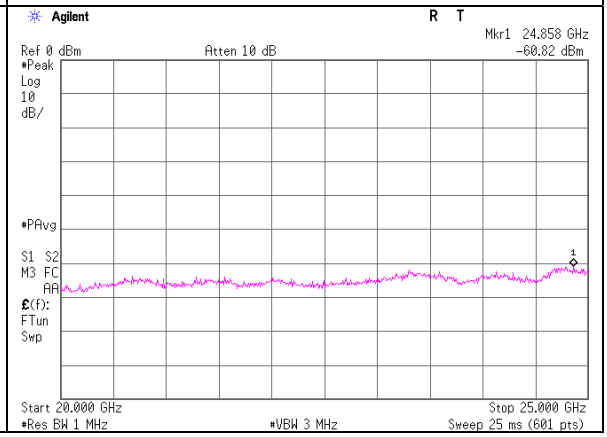

#### 10GHz-15GHz




#### 15GHz-20GHz



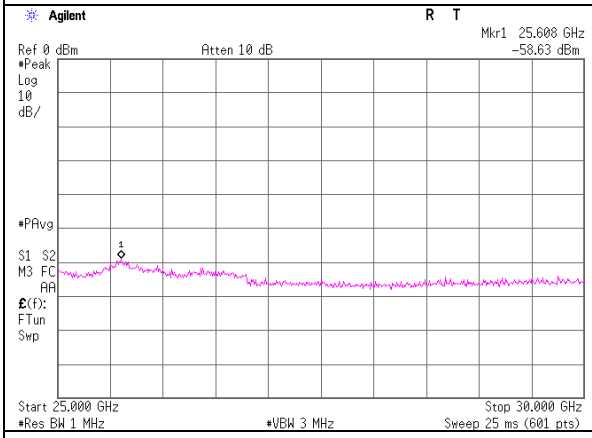

#### 20GHz-25GHz



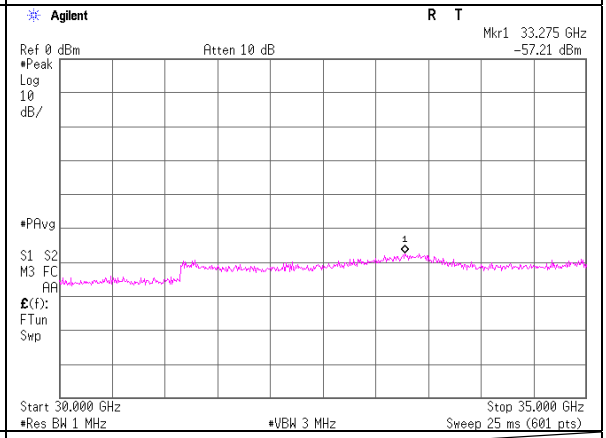
## Conducted Spurious Emission(DSSS and other forms of modulation)

### Tx, Ch: 52, 5260MHz

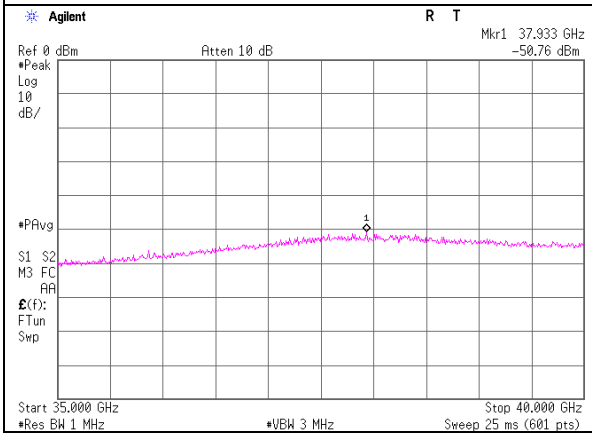
**25GHz-30GHz**

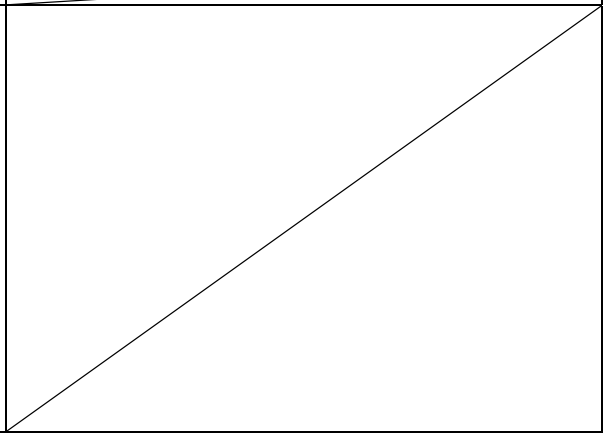



**30GHz-35GHz**




**35GHz-40GHz**

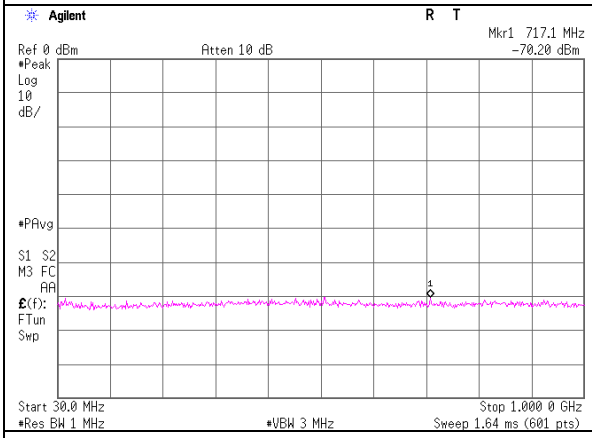


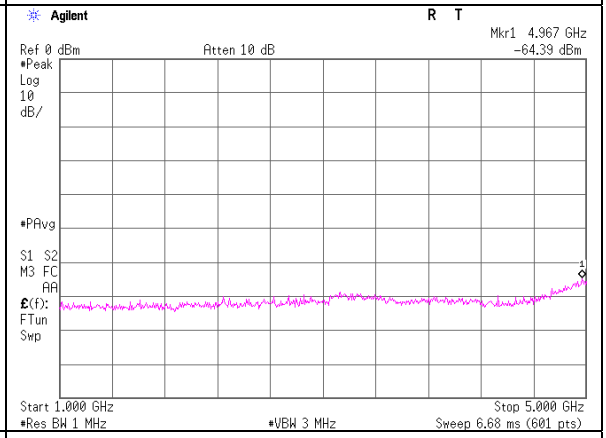
## Conducted Spurious Emission(DSSS and other forms of modulation)

### Tx, Ch: 60, 5300MHz

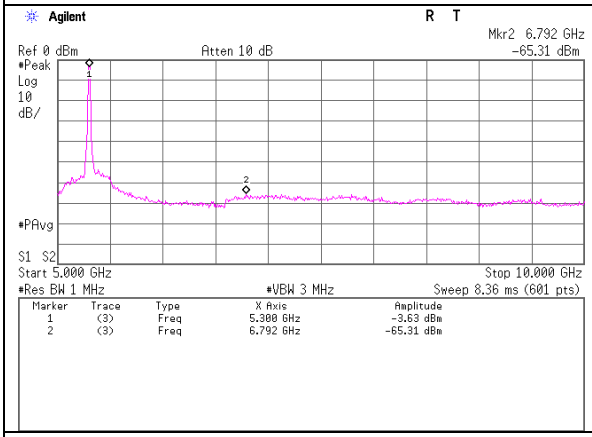
#### 30MHz-1GHz



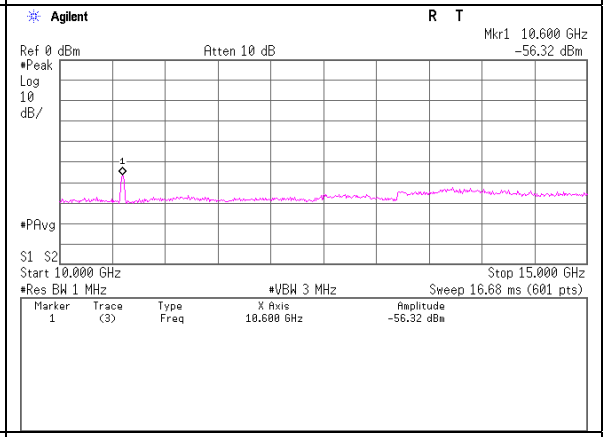

#### 1GHz-5GHz



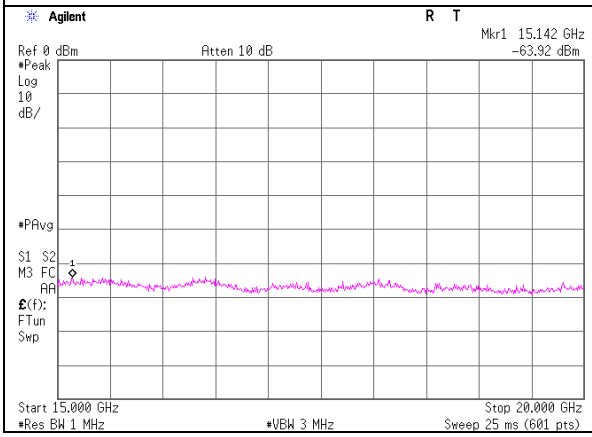

#### 5GHz-10GHz



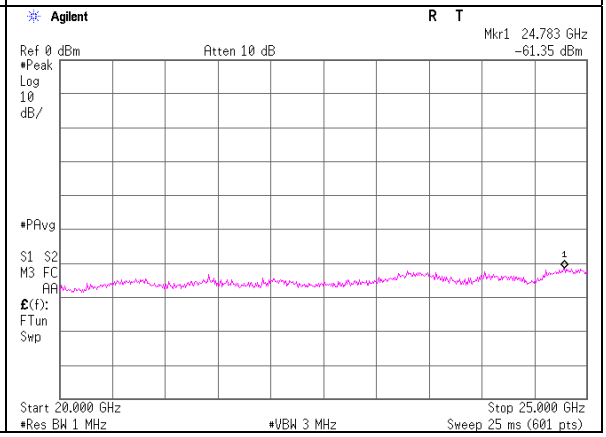

#### 10GHz-15GHz




#### 15GHz-20GHz



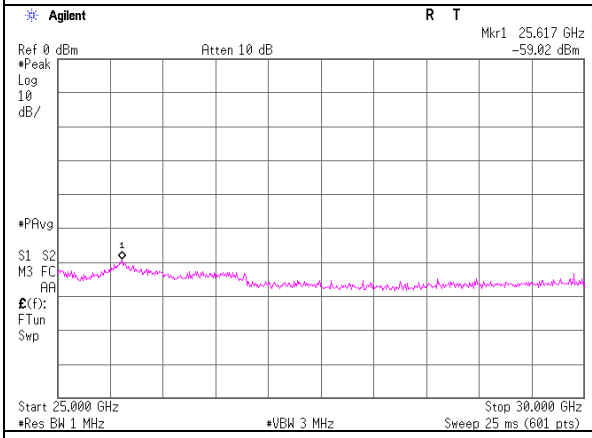

#### 20GHz-25GHz



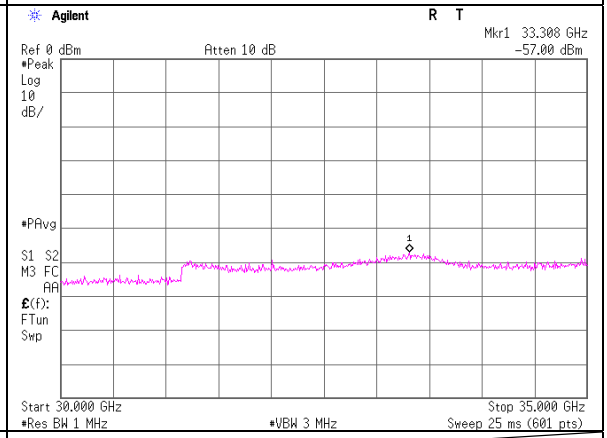
## Conducted Spurious Emission(DSSS and other forms of modulation)

### Tx, Ch: 60, 5300MHz

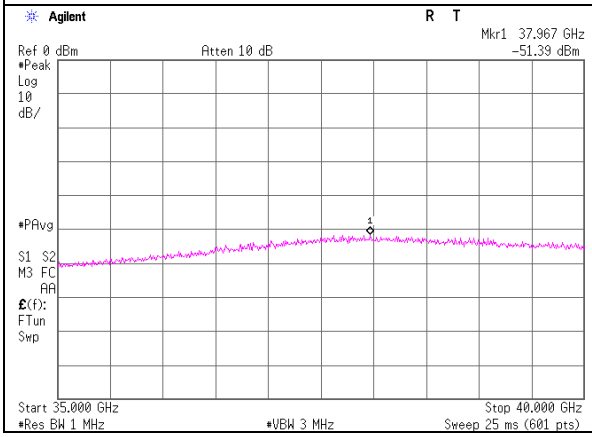
**25GHz-30GHz**

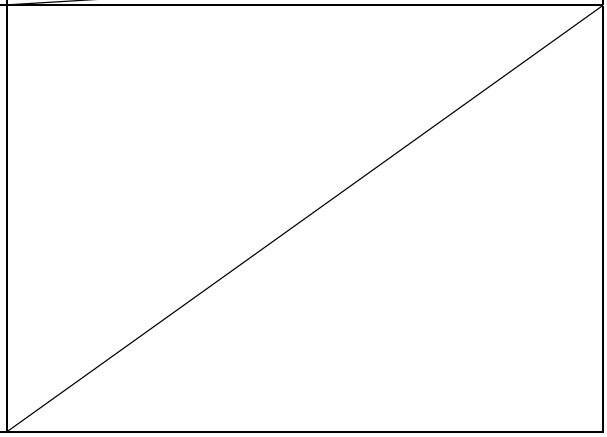



**30GHz-35GHz**




**35GHz-40GHz**

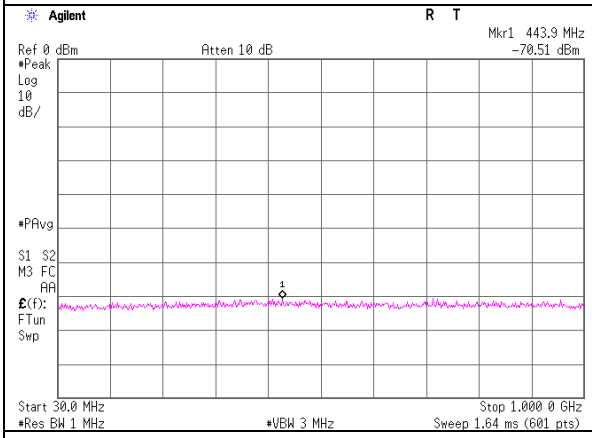


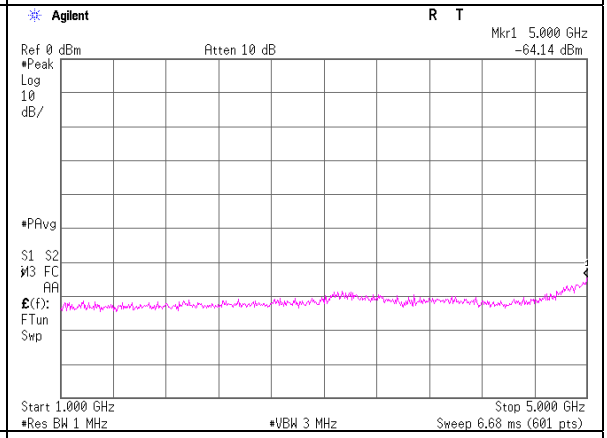
## Conducted Spurious Emission(DSSS and other forms of modulation)

### Tx, Ch: 64, 5320MHz

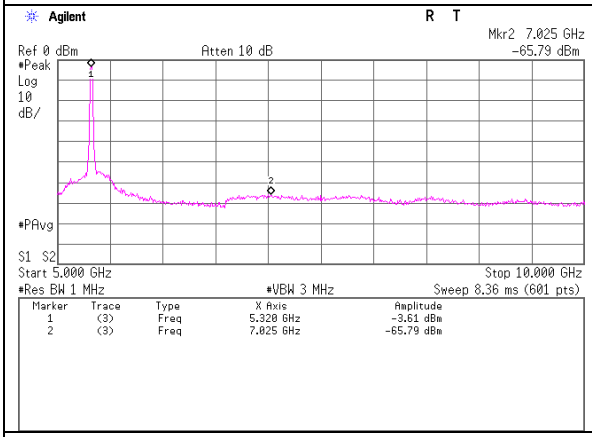
#### 30MHz-1GHz



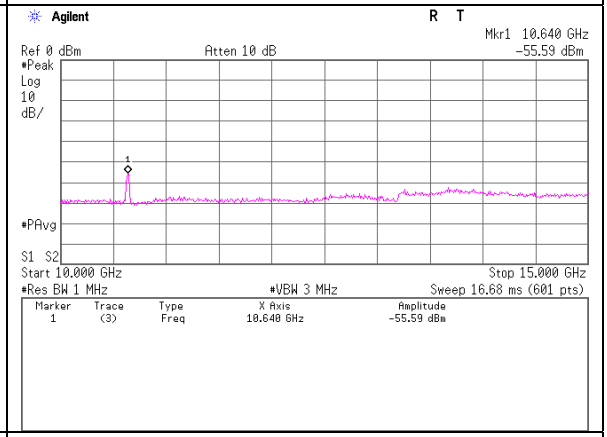

#### 1GHz-5GHz



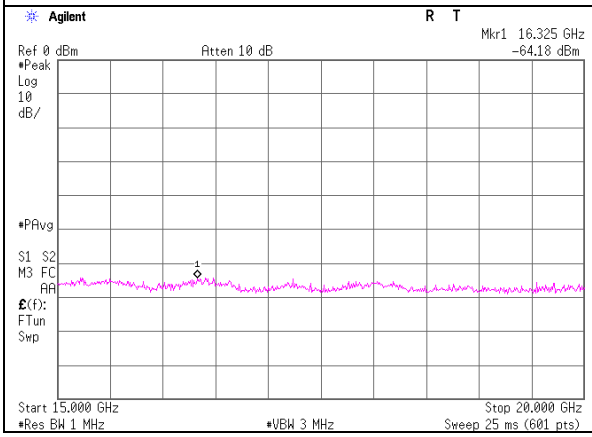

#### 5GHz-10GHz



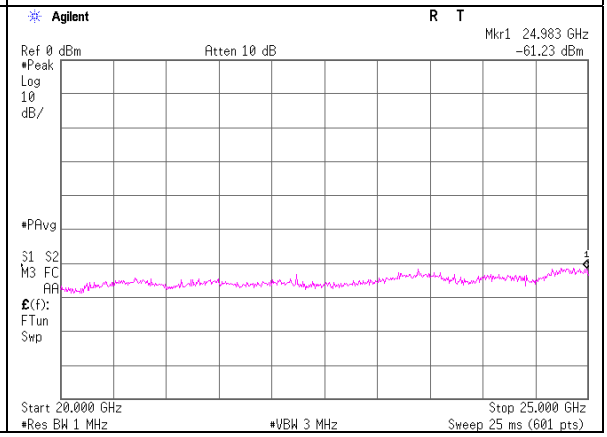

#### 10GHz-15GHz




#### 15GHz-20GHz



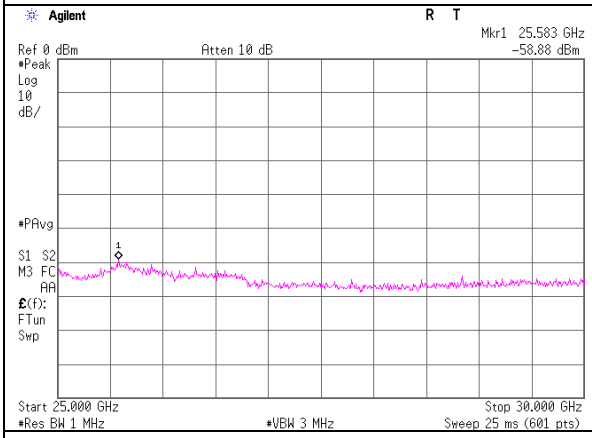

#### 20GHz-25GHz



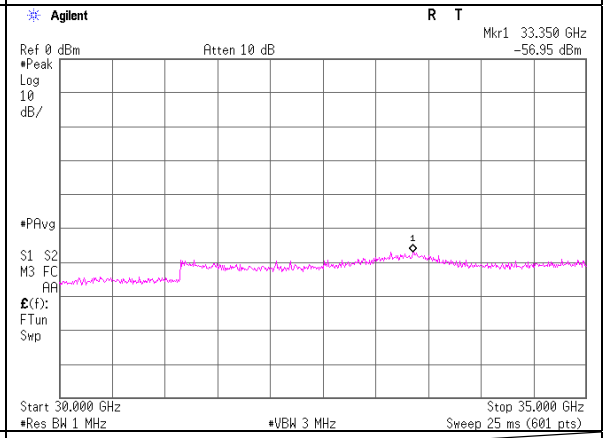
## Conducted Spurious Emission(DSSS and other forms of modulation)

### Tx, Ch: 64, 5320MHz

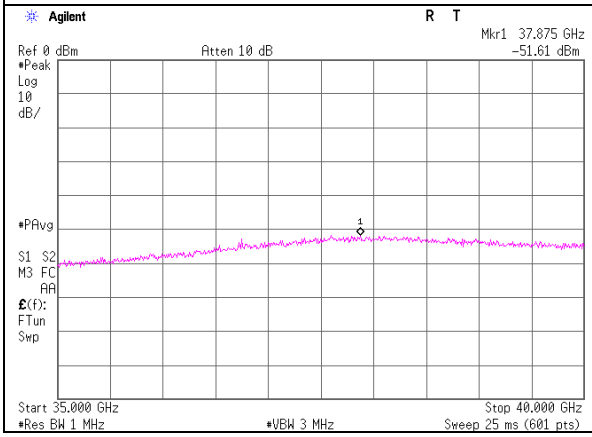
**25GHz-30GHz**

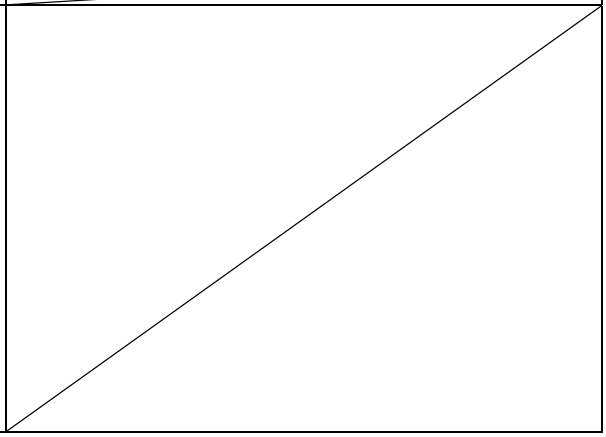



**30GHz-35GHz**




**35GHz-40GHz**

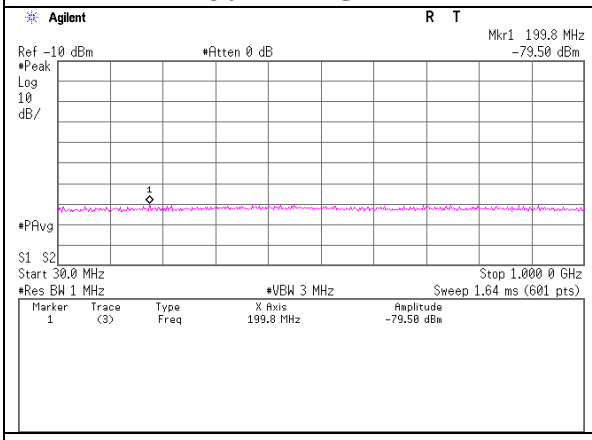


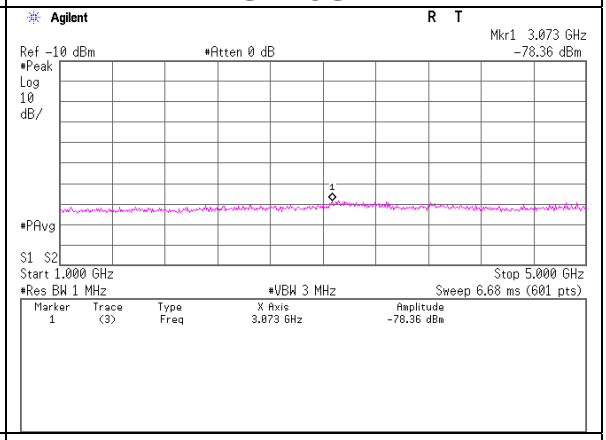
## Conducted Spurious Emission(DSSS and other forms of modulation)

### Rx, Ch: 44, 5220MHz

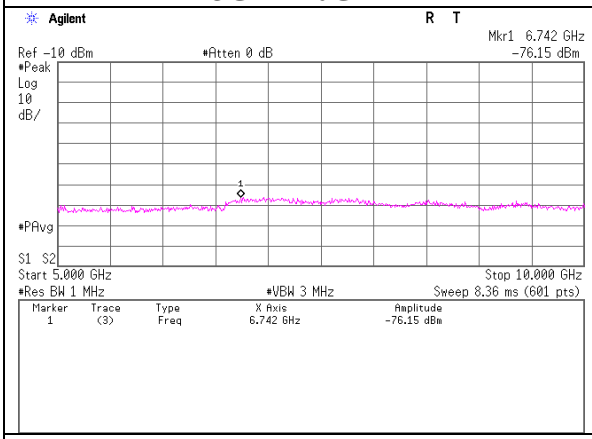
#### 30MHz-1GHz



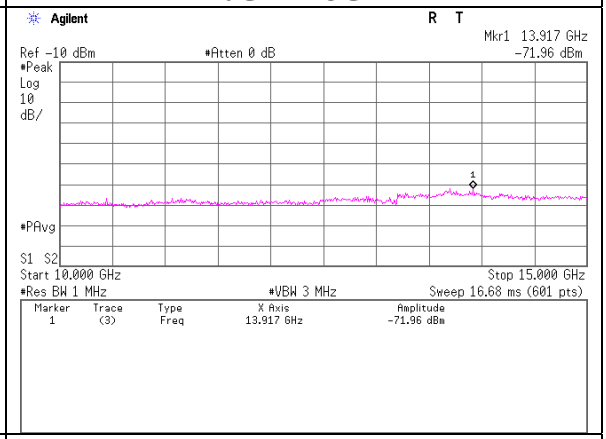

#### 1GHz-5GHz



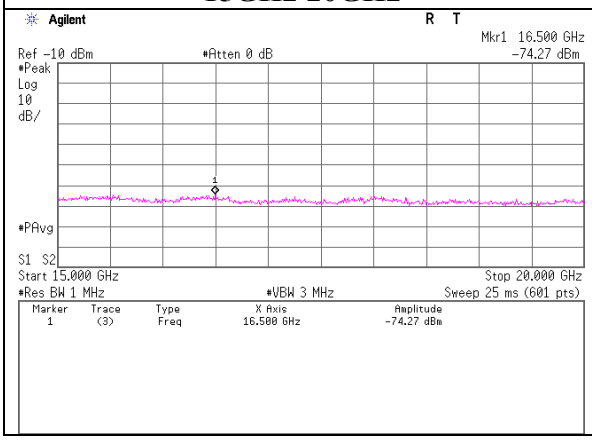

#### 5GHz-10GHz



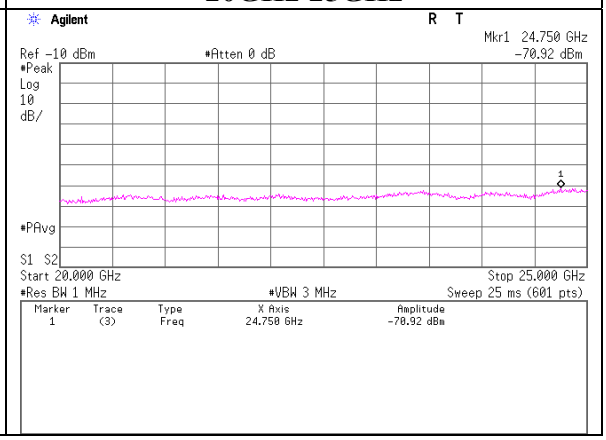

#### 10GHz-15GHz




#### 15GHz-20GHz



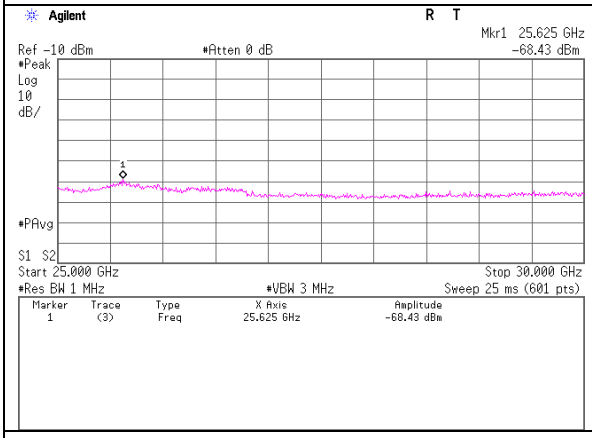

#### 20GHz-25GHz



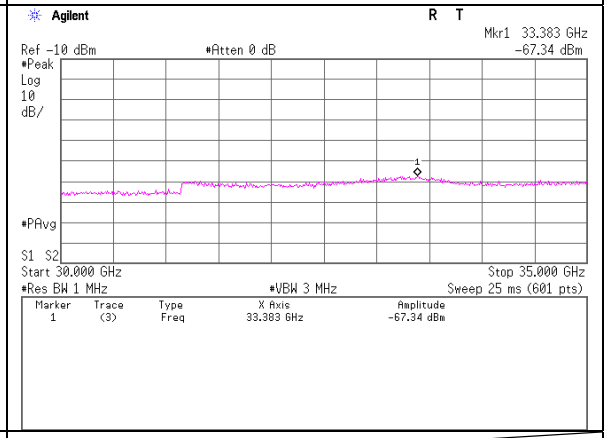
## Conducted Spurious Emission(DSSS and other forms of modulation)

### Rx, Ch: 44, 5220MHz

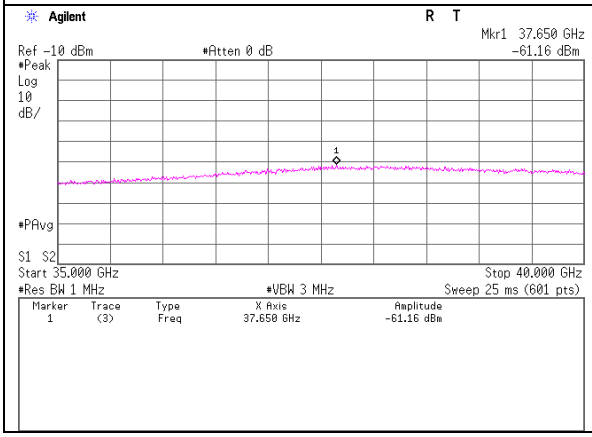
**25GHz-30GHz**




**30GHz-35GHz**




**35GHz-40GHz**

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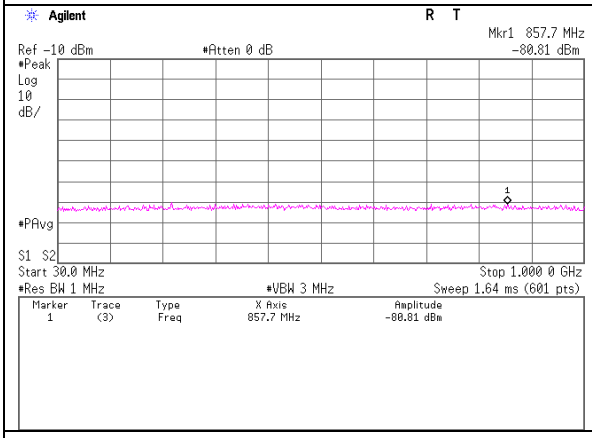
**Facsimile : +81 596 24 8124**

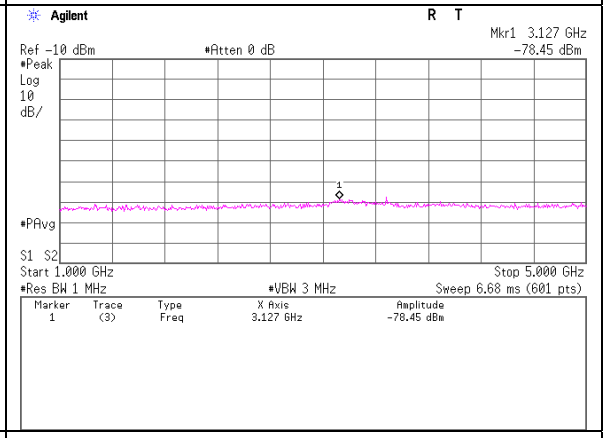
# Conducted Spurious Emission(DSSS and other forms of modulation)

## Rx, Ch: 60, 5300MHz

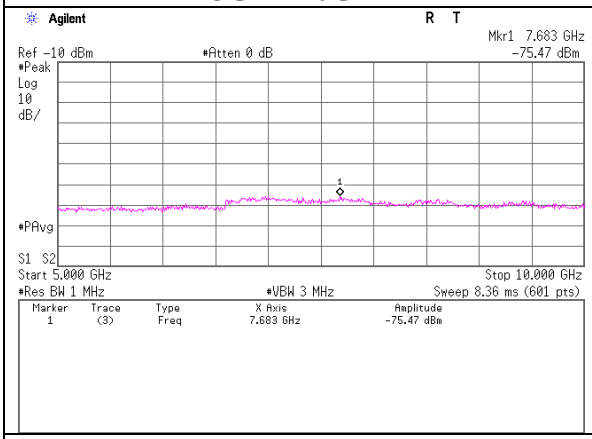
### 30MHz-1GHz



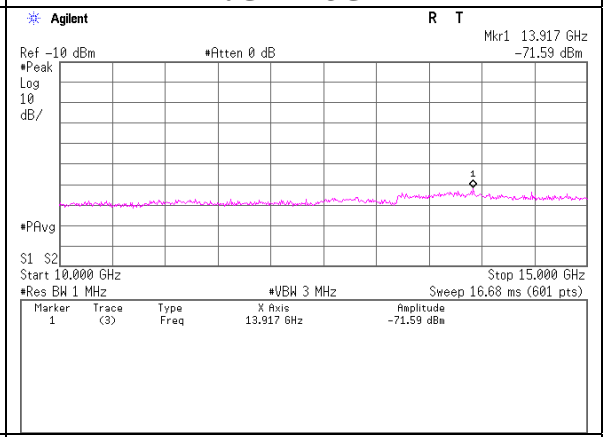

### 1GHz-5GHz



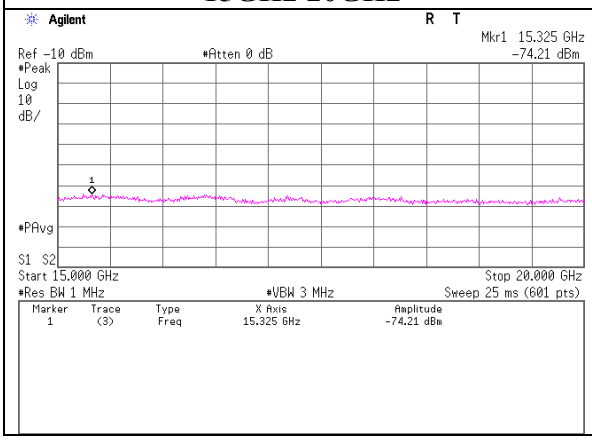

### 5GHz-10GHz



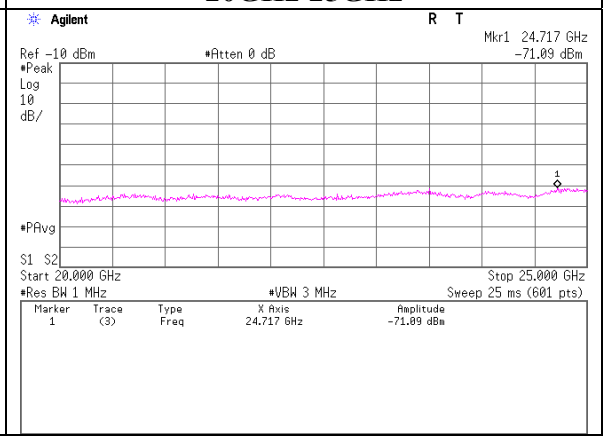

### 10GHz-15GHz




### 15GHz-20GHz



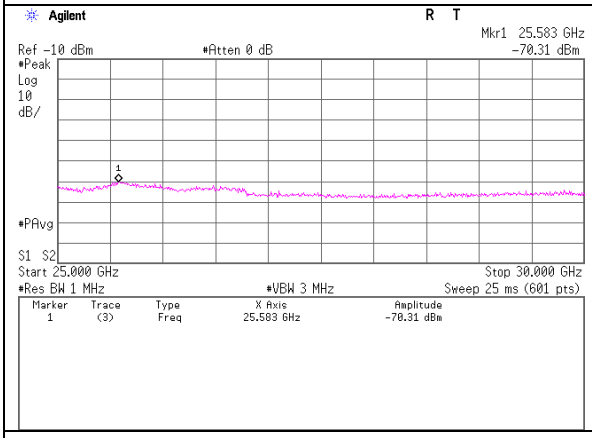

### 20GHz-25GHz



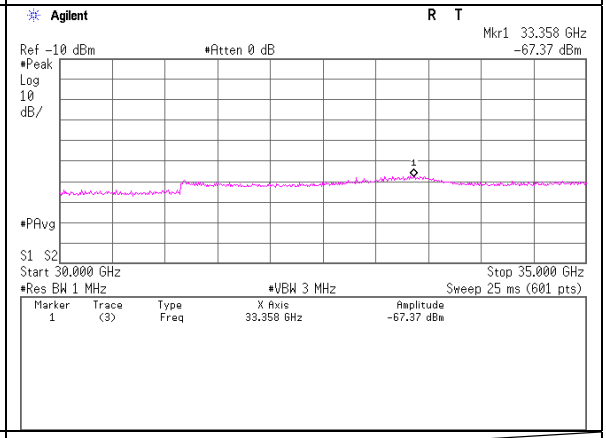
## Conducted Spurious Emission(DSSS and other forms of modulation)

### Rx, Ch: 60, 5300MHz

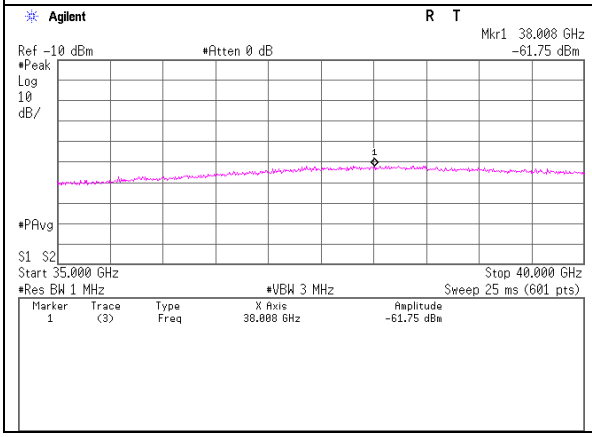
**25GHz-30GHz**




**30GHz-35GHz**




**35GHz-40GHz**

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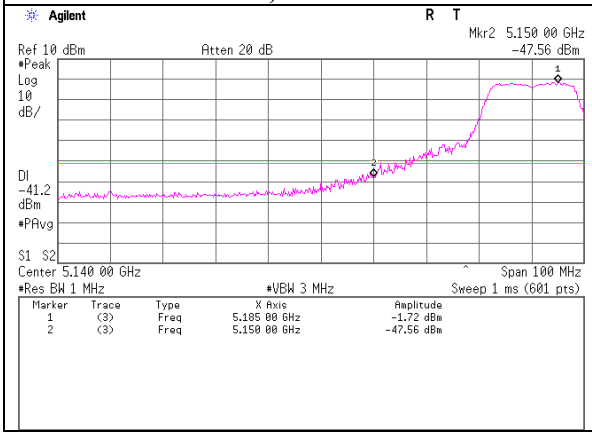
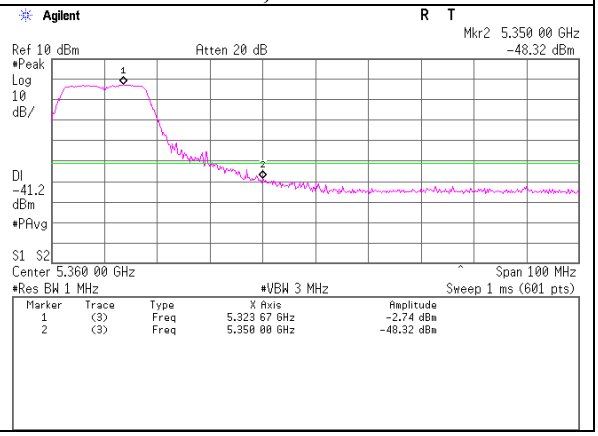
# Conducted emission Band Edge compliance

## CH36, 5180MHz




## CH64, 5320MHz




Limit Line = -27dBm - Cable Loss – Attenuator- Antenna Gain
= -27dBm – 3.03dB – 10.32dB – 0.92dBi
= -41.2dB

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# Peak Power Spectral Density

UL Japan, Inc.
Head Office EMC Lab. No.6 Measurement room

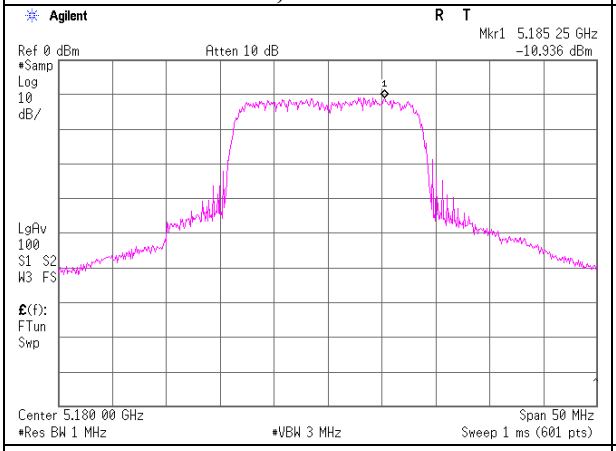
| | | | |
|---|---|---|---|
| Company | NEC Corporation | | |
| Equipment | Factory Computer as FC-NOTE Series | Regulation | FCC Section 15.407(a)(1)(2)(3)(5) / RSS-210 A9.2(1)(2)(3) |
| Model | FC-N22A | Test Distance | - |
| S/N | PP-091 | Date | 04/23/2008 |
| Power | AC 120V / 60Hz | Temperature | 23 deg.C. |
| Mode | 11a, Transmitting (Tx), 6Mbps, MAIN ANT | Humidity | 51 % |
| | | Engineer | Yutaka Yoshida |

| Ch | Freq. [MHz] | Reading [dBm] | Cable Loss [dB] | Atten. [dB] | Result [dBm] | Limit [dBm] | Margin [dB] |
|---|---|---|---|---|---|---|---|
| 36 | 5180.0 | -10.94 | 3.03 | 10.23 | 2.32 | 4.00 | 1.68 |
| 44 | 5220.0 | -11.74 | 3.03 | 10.23 | 1.52 | 4.00 | 2.48 |
| 48 | 5240.0 | -12.51 | 3.03 | 10.23 | 0.75 | 4.00 | 3.25 |
| 52 | 5260.0 | -12.79 | 3.03 | 10.23 | 0.47 | 17.00 | 16.53 |
| 60 | 5300.0 | -12.01 | 3.03 | 10.23 | 1.25 | 17.00 | 15.75 |
| 64 | 5320.0 | -12.03 | 3.03 | 10.23 | 1.23 | 17.00 | 15.77 |

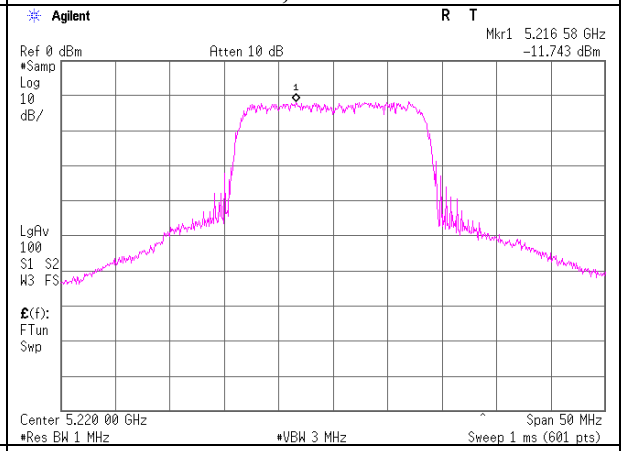
Sample Calculation:
Result = Reading + Cable Loss + Attenuator
* Atten. was not used for factor 0.0dB of the above table.

# Peak Power Spectral Density

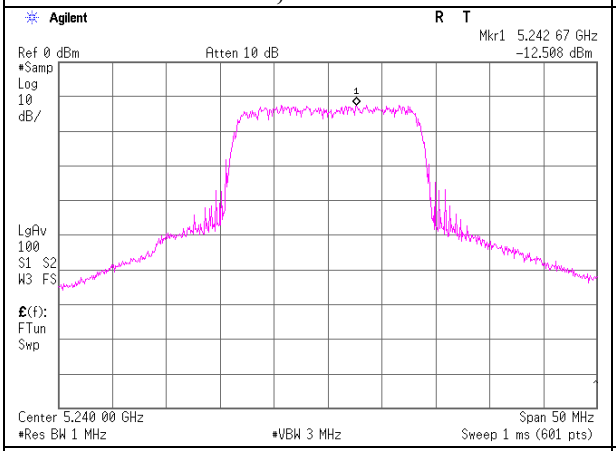
## Ch:36, 5180MHz



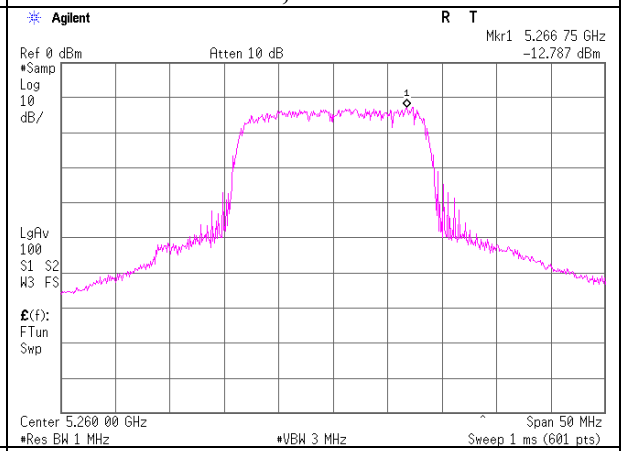

## Ch:44, 5220MHz



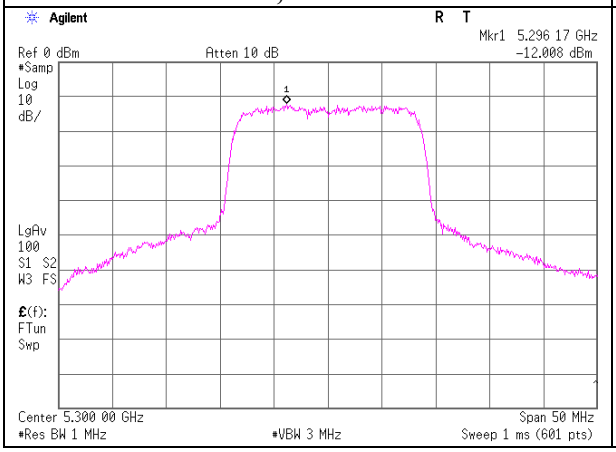

## Ch:48, 5240MHz



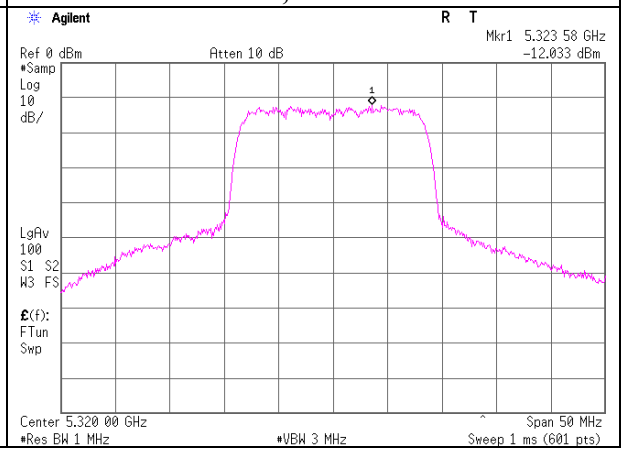

## Ch:52, 5260MHz




## Ch:60, 5300MHz




## Ch:64, 5320MHz

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# Peak Excursion Ratio

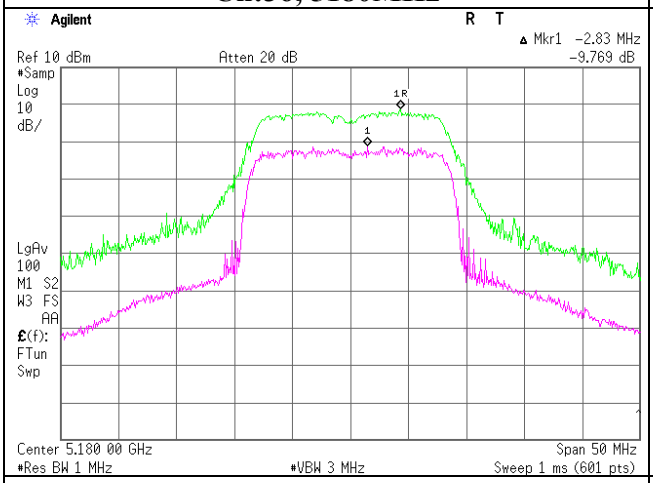
UL Japan, Inc.
Head Office EMC Lab. No.6 Measurement room

| | | | |
|---|---|---|---|
| Company | NEC Corporation | | |
| Equipment | Factory Computer as FC-NOTE Series | Regulation | FCC Section 15.407(a)(6) |
| Model | FC-N22A | Test Distance | - |
| S/N | PP-091 | Date | 04/23/2008 |
| Power | AC 120V / 60Hz | Temperature | 23 deg.C. |
| Mode | 11a, Transmitting (Tx), 6Mbps, MAIN ANT | Humidity | 51 % |
| | | Engineer | Yutaka Yoshida |

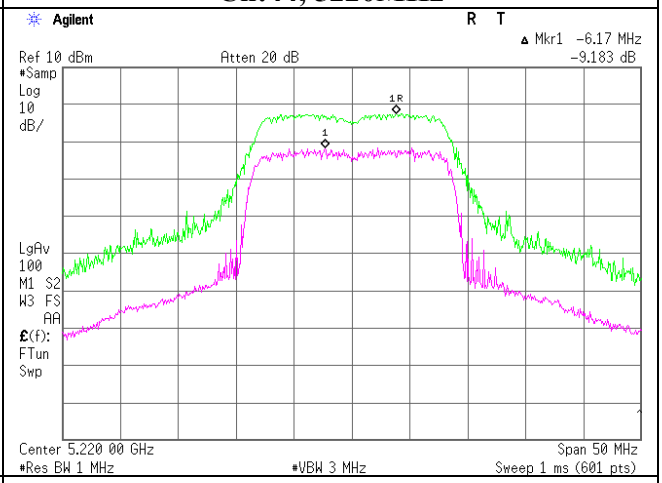
| Ch | Freq. [MHz] | Peak Power Excursion [dB] | Limit [dB] | Margin [dB] |
|---|---|---|---|---|
| 36 | 5180.0 | 9.769 | 13.0 | 3.2 |
| 44 | 5220.0 | 9.183 | 13.0 | 3.8 |
| 48 | 5240.0 | 9.600 | 13.0 | 3.4 |
| 52 | 5260.0 | 9.333 | 13.0 | 3.7 |
| 60 | 5300.0 | 9.952 | 13.0 | 3.0 |
| 64 | 5320.0 | 8.474 | 13.0 | 4.5 |

# Peak Excursion Ratio

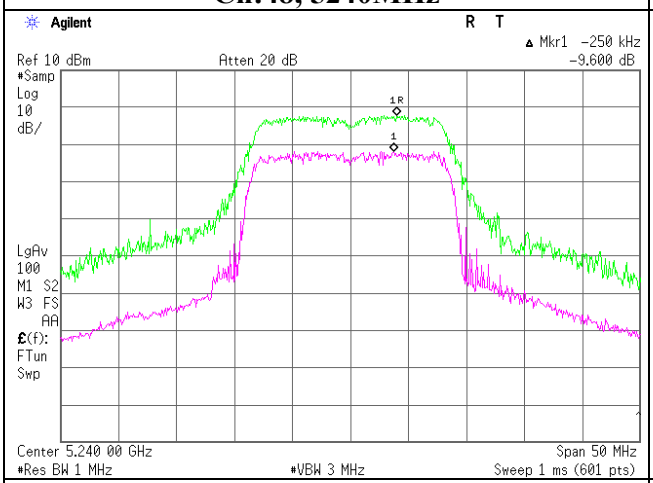
## Ch:36, 5180MHz



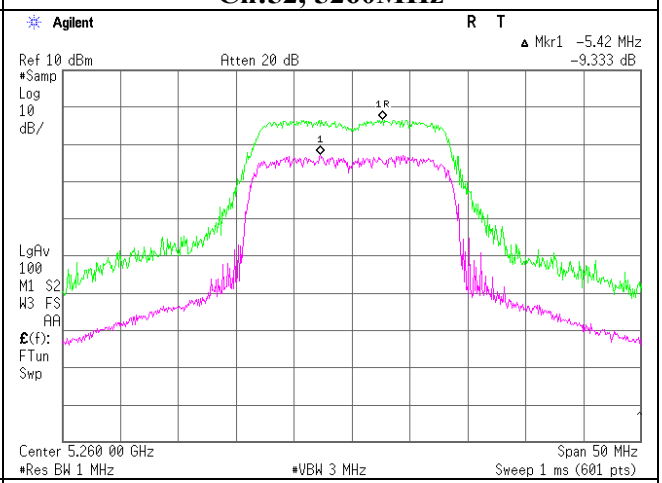

## Ch:44, 5220MHz



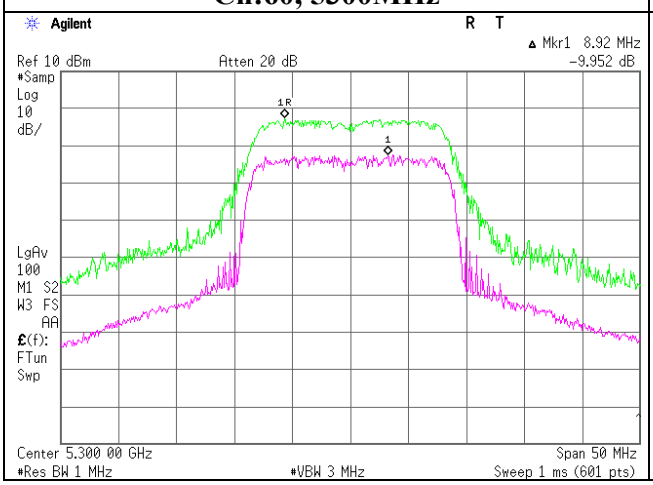

## Ch:48, 5240MHz



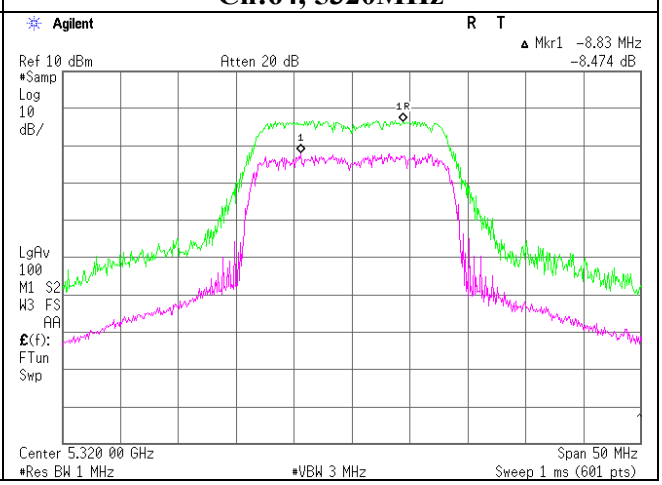

## Ch:52, 5260MHz




## Ch:60, 5300MHz




## Ch:64, 5320MHz

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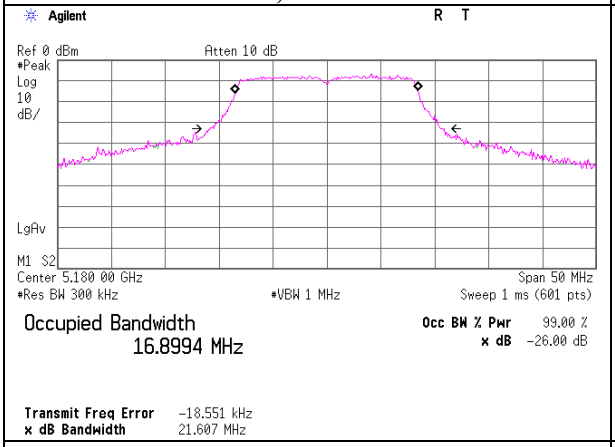
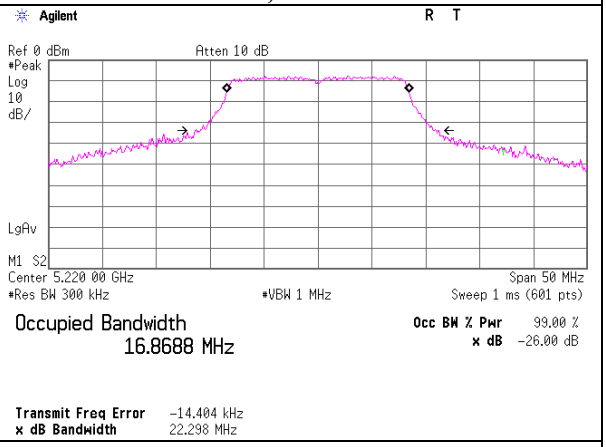
# 99%Occupied Bandwidth

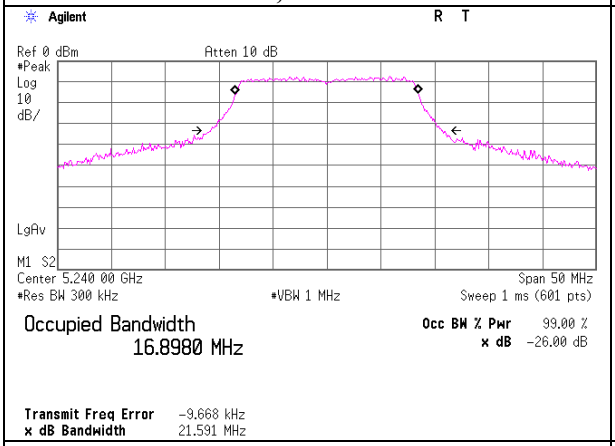
## Ch:36, 5180MHz



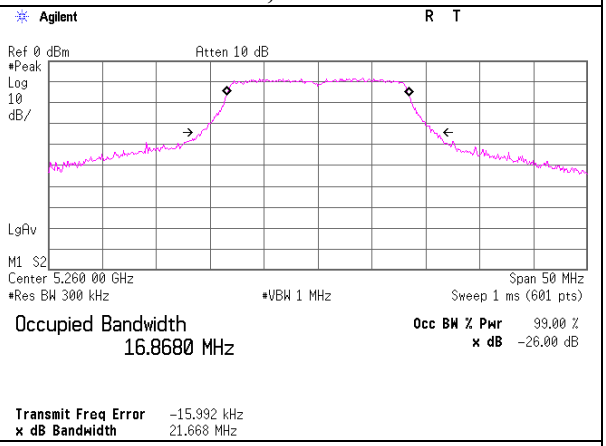

## Ch:44, 5220MHz



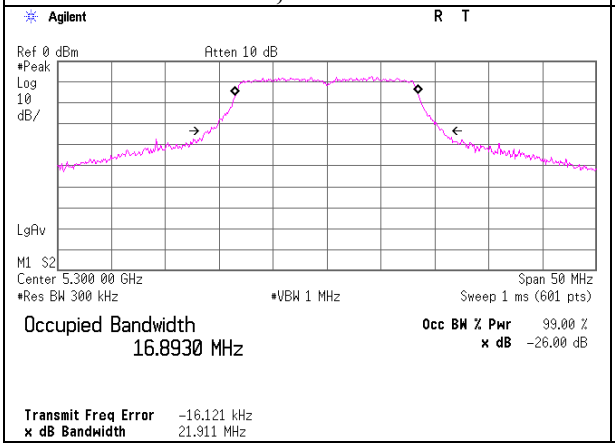

## Ch:48, 5240MHz



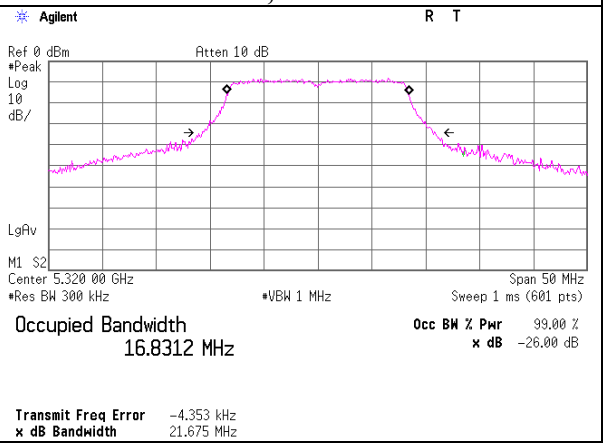

## Ch:52, 5260MHz




## Ch:60, 5300MHz




## Ch:64, 5320MHz



# APPENDIX 3:Test instruments

**EMI test equipment (1/2)**

| Control No. | Instrument | Manufacturer | Model No | Test Item | Calibration Date * Interval(month) |
|---|---|---|---|---|---|
| MSA-04 | Spectrum Analyzer | Agilent | E4448A | AT | 2007/06/20 * 12 |
| MCC-67 | Microwave Cable 1G-40GHz | Schner | SUCOFLEX102 | AT | 2008/04/04 * 12 |
| MAT-20 | Attenuator(10dB)(above1GHz) | HIROSE ELECTRIC CO.,LTD. | AT-110 | AT | 2008/01/09 * 12 |
| MOS-14 | Thermo-Hygrometer | Custom | CTH-180 | AT | 2008/01/10 * 12 |
| MPSU-12 | Power Supply | NF | ES1000S | AT | Pre Check |
| MMM-11 | Digital HiTESTER | Hioki | 3805 | AT | 2008/04/09 * 12 |
| MSA-10 | Spectrum Analyzer | Agilent | E4448A | AT | 2008/02/27 * 12 |
| MCC-05 | Microwave Cable 1G-40GHz 2m | Storm | 421-011 ( 90-1394-079 ) | AT | 2008/01/31 * 12 |
| MAEC-04 | Anechoic Chamber | TDK | Semi Anechoic Chamber 3m | RE | 2008/03/27 * 12 |
| MOS-15 | Thermo-Hygrometer | Custom | CTH-180 | RE | 2008/01/10 * 12 |
| MJM-07 | Measure | PROMART | SEN1955 | RE | - |
| MSTW-14 | EMI measurement program | TSJ | TEPTO-DV | RE/CE | - |
| MHA-21 | Horn Antenna 1-18GHz | Schwarzbeck | BBHA9120D | RE | 2007/08/16 * 12 |
| MCC-57 | Microwave Cable 1G-26.5GHz | Suhner | SUCOFLEX104 | RE | 2008/03/05 * 12 |
| MPA-12 | MicroWave System Amplifier | Agilent | 83017A | RE | 2008/03/13 * 12 |
| MHA-17 | Horn Antenna 15-40GHz | Schwarzbeck | BBHA9170 | RE | 2007/04/06 * 12 |
| MCC-79 | Microwave Cable 1G-26.5GHz | Suhner | SUCOFLEX104 | RE | 2007/12/26 * 12 |
| MHF-23 | High Pass Filter 7-20GHz | TOKIMEC | TF37NCCC | RE | 2008/01/07 * 12 |
| MRENT-67 | Spectrum Analyzer | Agilent | E4448A | RE | 2008/04/02 * 12 |
| MAT-22 | Attenuator(10dB) DC-18GHz | Orient Microwave | BX10-0476-00 | RE | 2008/03/04 * 12 |

**EMI test equipment (2/2)**

| Control No. | Instrument | Manufacturer | Model No | Test Item | Calibration Date * Interval(month) |
|---|---|---|---|---|---|
| MSA-05 | Spectrum Analyzer | Advantest | R3273 | RE | 2007/06/01 * 12 |
| MTR-07 | Test Receiver | Rohde & Schwarz | ESCI | RE/CE | 2007/09/14 * 12 |
| MBA-05 | Biconical Antenna | Schwarzbeck | BBA9106 | RE | 2008/01/12 * 12 |
| MLA-08 | Logperiodic Antenna | Schwarzbeck | UKLP9140-A | RE | 2008/01/12 * 12 |
| MCC-50 | Coaxial cable | UL Japan | - | RE | 2008/03/17 * 12 |
| MAT-31 | Attenuator(6dB) | TME | UFA-01 | RE | 2008/03/10 * 12 |
| MPA-14 | Pre Amplifier | SONOMA INSTRUMENT | 310 | RE | 2008/03/06 * 12 |
| MCC-54 | Microwave Cable 1G-40GHz | Suhner | SUCOFLEX101 | RE | 2008/03/07 * 12 |
| MPA-03 | Microwave System Power Amplifier | Agilent | 83050A | RE | 2007/06/08 * 12 |
| MHF-20 | High Pass Filter 3.5-18.0GHz | TOKIMEC | TF323DCC | RE | 2007/12/10 * 12 |
| MLS-06 | LISN(AMN) | Schwarzbeck | NSLK8127 | CE(EUT) | 2008/02/19 * 12 |
| MLS-07 | LISN(AMN) | Schwarzbeck | NSLK8127 | CE(AE) | 2008/02/20 * 12 |
| MTA-07 | Terminator | MCL | BTRM-50 | CE | 2008/02/04 * 12 |
| MCC-64 | Coaxial Cable | TOYO Technica Corporation | - | CE | 2008/03/11 * 12 |
| MOS-24 | Thermo-Hygrometer | Custom | CTH-201 | CE | 2007/12/27 * 12 |
| MJM-09 | Measure | KDS | E19-55 | CE | - |

**The expiration date of the calibration is the end of the expired month.**
**All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.**

**As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.**

**Test Item: CE: Conducted Emission**
**RE: Radiated Emission**
**AT: Antenna Terminal Conducted test**