

APPENDIX 2: Data of EMI test

Conducted Emission

11b Tx, Ch:Low

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/09

Company

Kind of EUT

Model No.

Serial No.

: NEC Corporation

: Factory Computer FC-NOTE series

: FC-N21S/BY5SS

: S760538MA

Report No.

Power

Temp./Humi.

Operator

: 27LE0180-YK

: AC 120V / 60Hz

: 25deg. C / 54%

: Takahiro Hatakeda

Mode / Remarks : 11b Tx 2412MHz 11Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV

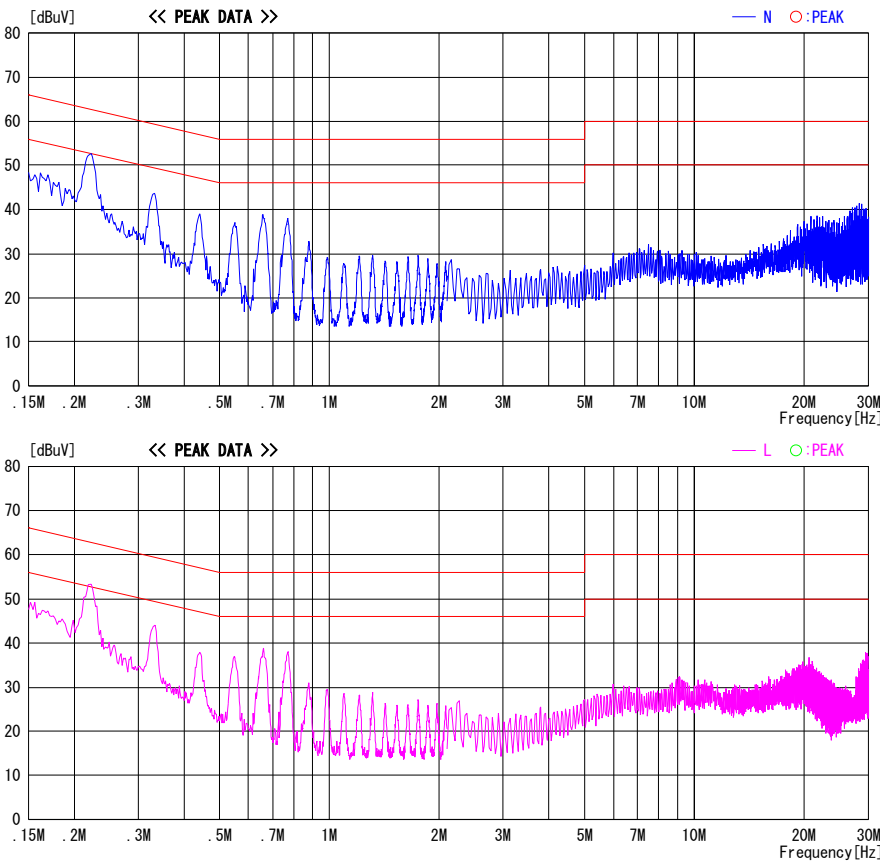


CHART:WITH FACTOR, Peak hold data. CALCURATION: RESULT[dBuV]=READING[dBuV]+C. F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

UL Japan, Inc.

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

Test report No. : 27LE0180-YK-A-R1
Page : 17 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFEC-N21S

Conducted Emission
11b Tx, Ch:Mid
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC 120V / 60Hz
Temp./Humi. : 25deg.C / 54%
Operator : Takahiro Hatakeda

Mode / Remarks : 11b Tx 2437MHz 11Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV

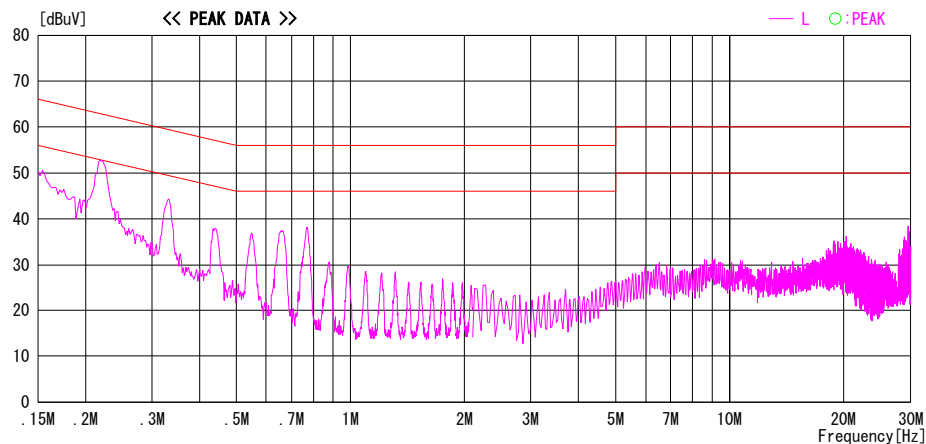
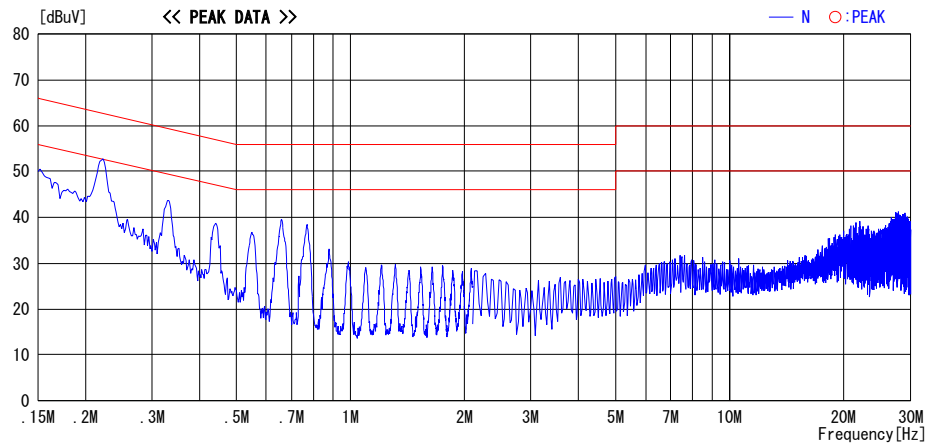


CHART:WITH FACTOR, Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

UL Japan, Inc.
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

Conducted Emission

11b Tx, Ch:High

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/09

Company

Kind of EUT

Model No.

Serial No.

: NEC Corporation

: Factory Computer FC-NOTE series

: FC-N21S/BY5SS

: S760538MA

Report No.

Power

Temp./Humi.

Operator

: 27LE0180-YK

: AC 120V / 60Hz

: 25deg. C / 54%

: Takahiro Hatakeda

Mode / Remarks : 11b Tx 2462MHz 11Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV

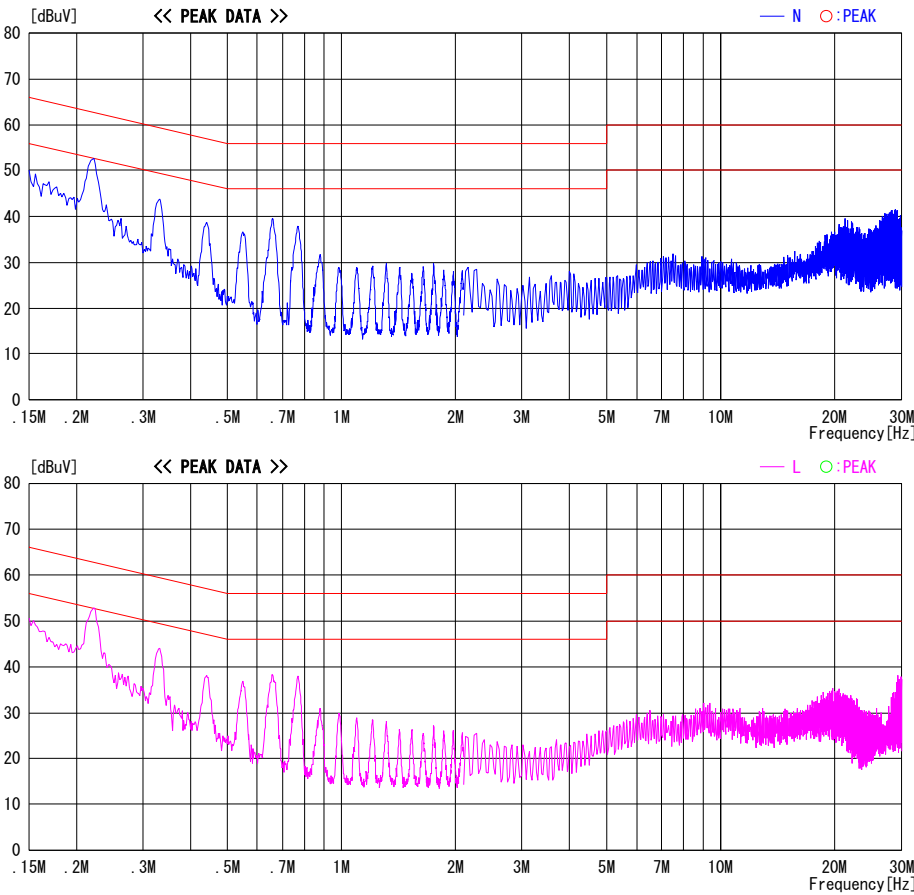


CHART:WITH FACTOR, Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C. F[dB] (L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11g Tx, Ch:Low
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/10

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA
Report No. : 27LE0180-YK
Power : AC 120V / 60Hz
Temp./Humi. : 25deg.C / 54%
Operator : Takahiro Hatakeda

Mode / Remarks : 11g Tx 2412MHz 54Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV

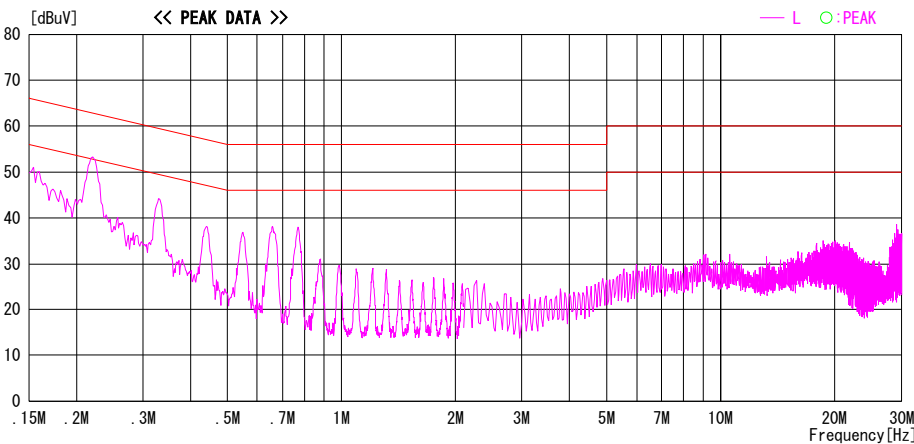
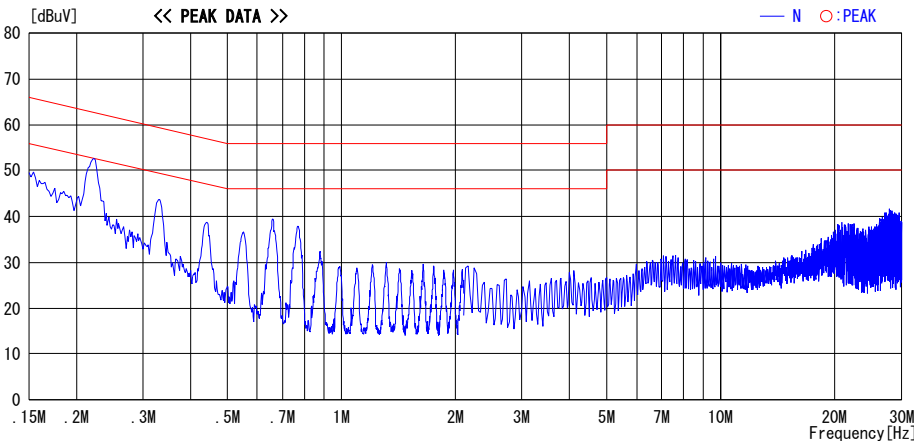


CHART:WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C. F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11g Tx, Ch:Mid

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber

Date : 2007/08/10

Company : NEC Corporation

Kind of EUT : Factory Computer FC-NOTE series

Model No. : FC-N21S/BY5SS

Serial No. : S760538MA

Report No. : 27LE0180-YK

Power : AC 120V / 60Hz

Temp./Humi. : 25deg.C / 54%

Operator : Takahiro Hatakeda

Mode / Remarks : 11g Tx 2437MHz 54Mbps MainANT

LIMIT : FCC15.207 QP

FCC15.207 AV

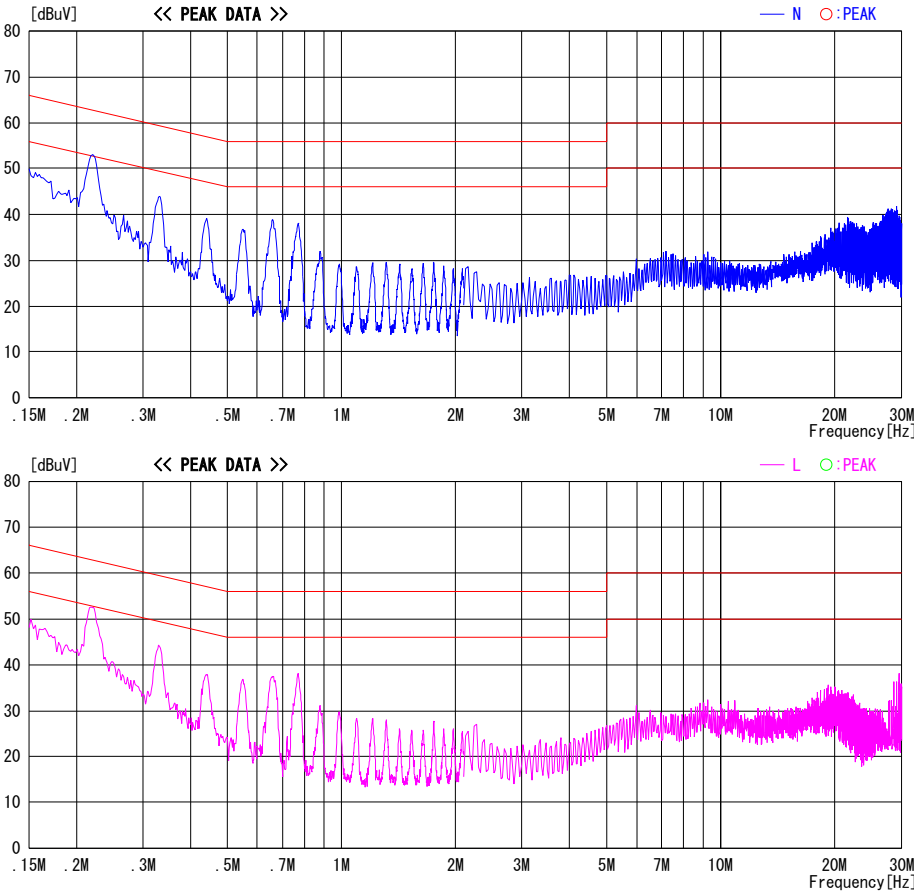


CHART:WITH FACTOR, Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C. F[dB] (LISN LOSS+CABLE LOSS)

Except for the above table : adequate margin data below the limits.

Conducted Emission

11g Tx, Ch:High

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber

Date : 2007/08/10

Company : NEC Corporation

Kind of EUT : Factory Computer FC-NOTE series

Model No. : FC-N21S/BY5SS

Serial No. : S760538MA

Report No. : 27LE0180-YK

Power : AC 120V / 60Hz

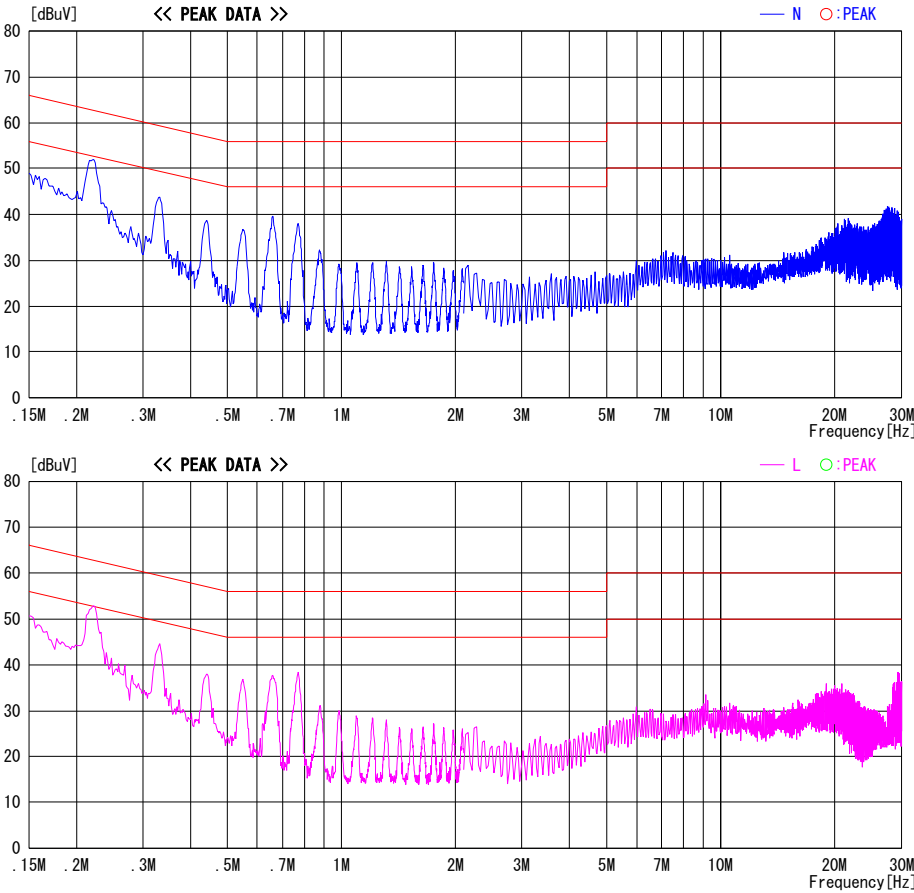
Temp./Humi. : 25deg.C / 54%

Operator : Takahiro Hatakeda

Mode / Remarks : 11g Tx 2462MHz 54Mbps MainANT

LIMIT : FCC15.207 QP

FCC15.207 AV



Conducted Emission

11a Tx, Ch:165 (5825MHz)

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/09

Company

Kind of EUT

Model No.

Serial No.

: NEC Corporation

: Factory Computer FC-NOTE series

: FC-N21S/BY5SS

: S760538MA

Report No.

Power

Temp./Humi.

Operator

: 27LE0180-YK

: AC 120V / 60Hz

: 25deg. C / 54%

: Takahiro Hatakeda

Mode / Remarks : 11a Tx 5825MHz 12Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV

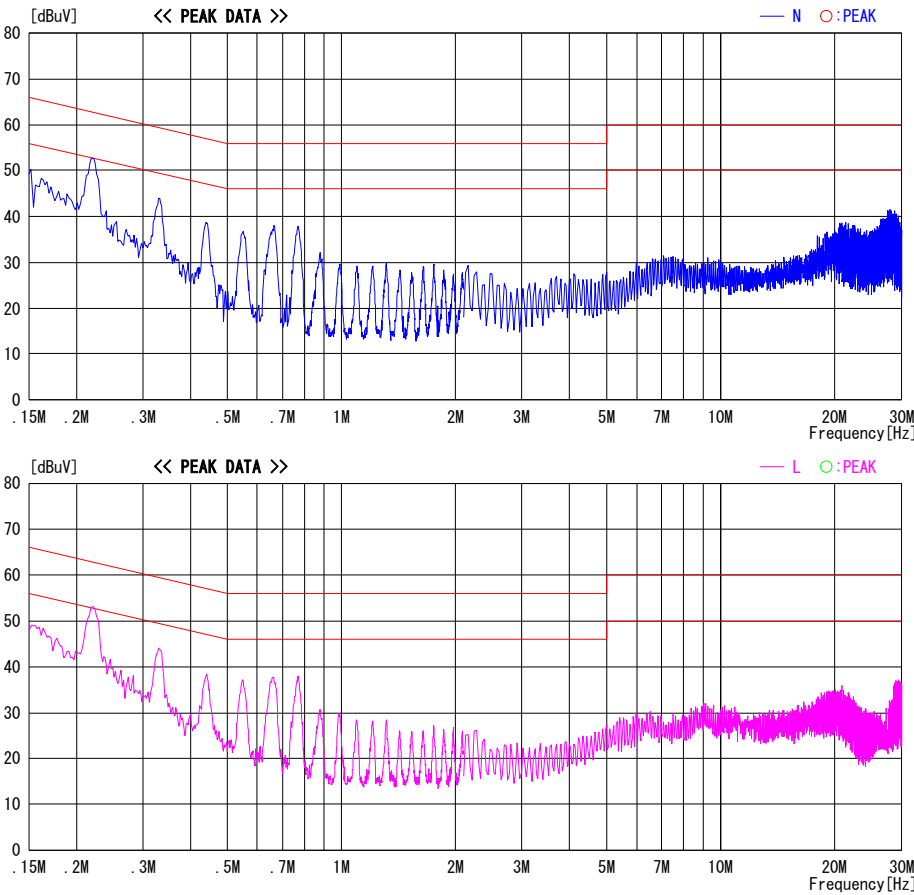


CHART:WITH FACTOR, Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C. F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

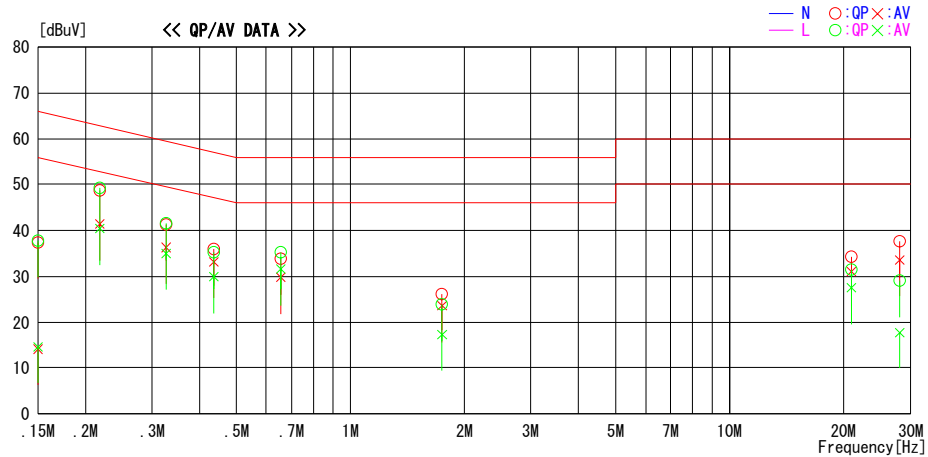
Conducted Emission
11a Tx, Ch:165 (5825MHz)
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA
Report No. : 27LE0180-YK
Power : AC 120V / 60Hz
Temp./Humi. : 25deg.C / 54%
Operator : Takahiro Hatakeda

Mode / Remarks : 11a Tx 5825MHz 12Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.15000	37.1	13.9	0.3	37.4	14.2	66.0	56.0	28.6	41.8	N
0.15000	37.4	14.4	0.3	37.7	14.7	66.0	56.0	28.3	41.3	L
0.21818	48.4	41.1	0.3	48.7	41.4	62.9	52.9	14.2	11.5	N
0.21818	49.0	40.1	0.3	49.3	40.4	62.9	52.9	13.6	12.5	L
0.32730	41.0	36.0	0.3	41.3	36.3	59.5	49.5	18.2	13.2	N
0.32730	41.3	34.7	0.3	41.6	35.0	59.5	49.5	17.9	14.5	L
0.43640	35.6	32.9	0.3	35.9	33.2	57.1	47.1	21.2	13.9	N
0.43640	34.9	29.6	0.3	35.2	29.9	57.1	47.1	21.9	17.2	L
0.65530	33.6	29.5	0.3	33.9	29.8	56.0	46.0	22.1	16.2	N
0.65530	34.9	31.3	0.3	35.2	31.6	56.0	46.0	20.8	14.4	L
1.74594	25.8	23.2	0.4	26.2	23.6	56.0	46.0	29.8	22.4	N
1.74594	23.5	16.9	0.4	23.9	17.3	56.0	46.0	32.1	28.7	L
20.95217	32.5	29.3	1.8	34.3	31.1	60.0	50.0	25.7	18.9	N
20.95217	29.6	25.7	1.8	31.4	27.5	60.0	50.0	28.6	22.5	L
28.04680	35.6	31.6	2.0	37.6	33.6	60.0	50.0	22.4	16.4	N
28.04680	27.1	15.8	2.0	29.1	17.8	60.0	50.0	30.9	32.2	L

CHART: WITH FACTOR, Peak hold data. CALCULATION: 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
11b Rx, Ch:Mid
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/10

Company	: NEC Corporation	Report No.	: 27LE0180-YK
Kind of EUT	: Factory Computer FC-NOTE series	Power	: AC 120V / 60Hz
Model No.	: FC-N21S/BY5SS	Temp./Humi.	: 25deg.C / 54%
Serial No.	: S760538MA	Operator	: Takahiro Hatakeda

Mode / Remarks : 11b Rx 2437MHz 11Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV

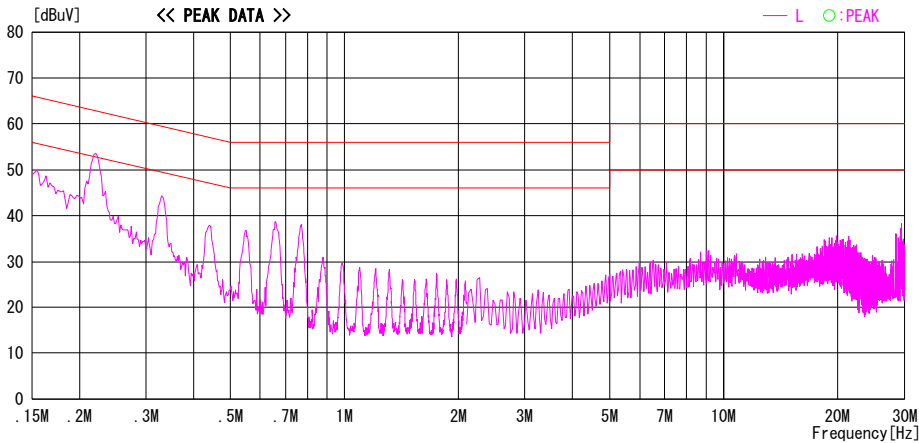
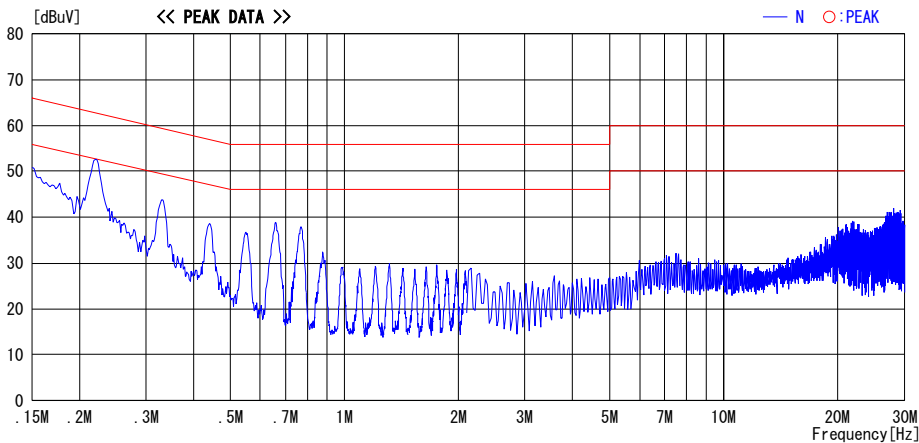


CHART:WITH FACTOR, Peak hold data. CALCURATION: RESULT[dBuV]=READING[dBuV]+C. F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11b Rx, Ch:Mid
DATA OF CONDUCTED EMISSION TEST

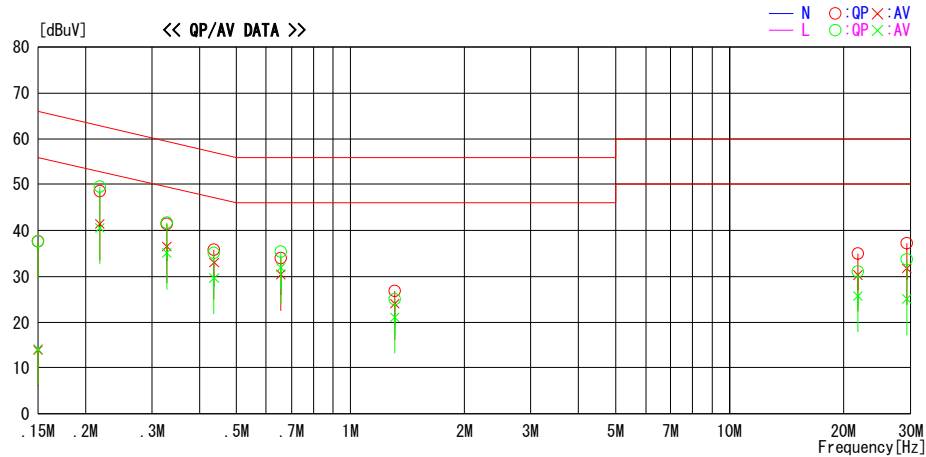
UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/10

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC 120V / 60Hz
Temp./Humi. : 25deg.C / 54%
Operator : Takahiro Hatakeda

Mode / Remarks : 11b Rx 2437MHz 11Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.15000	37.3	13.7	0.3	37.6	14.0	66.0	56.0	28.4	42.0	N
0.21825	48.2	41.1	0.3	48.5	41.4	62.9	52.9	14.4	11.5	N
0.32758	41.1	36.2	0.3	41.4	36.5	59.5	49.5	18.1	13.0	N
0.43674	35.5	32.7	0.3	35.8	33.0	57.1	47.1	21.3	14.1	N
0.65514	33.7	30.1	0.3	34.0	30.4	56.0	46.0	22.0	15.6	N
1.31006	26.4	23.6	0.4	26.8	24.0	56.0	46.0	29.2	22.0	N
21.82566	33.1	28.5	1.8	34.9	30.3	60.0	50.0	25.1	19.7	N
29.35371	35.1	29.6	2.1	37.2	31.7	60.0	50.0	22.8	18.3	N
0.15000	37.3	13.9	0.3	37.6	14.2	66.0	56.0	28.4	41.8	L
0.21825	49.2	40.3	0.3	49.5	40.6	62.9	52.9	13.4	12.3	L
0.32758	41.4	34.8	0.3	41.7	35.1	59.5	49.5	17.8	14.4	L
0.43674	34.8	29.4	0.3	35.1	29.7	57.1	47.1	22.0	17.4	L
0.65514	35.1	31.6	0.3	35.4	31.9	56.0	46.0	20.6	14.1	L
1.31006	24.6	20.8	0.4	25.0	21.2	56.0	46.0	31.0	24.8	L
21.82566	29.3	24.0	1.8	31.1	25.8	60.0	50.0	28.9	24.2	L
29.35371	31.6	23.0	2.1	33.7	25.1	60.0	50.0	26.3	24.9	L

CHART: WITH FACTOR, Peak hold data. CALCULATION: 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
11g Rx, Ch:Mid
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/10

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA

Report No. : 27LE0180-YK
Power : AC 120V / 60Hz
Temp./Humi. : 25deg.C / 54%
Operator : Takahiro Hatakeda

Mode / Remarks : 11g Rx 2437MHz 54Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV

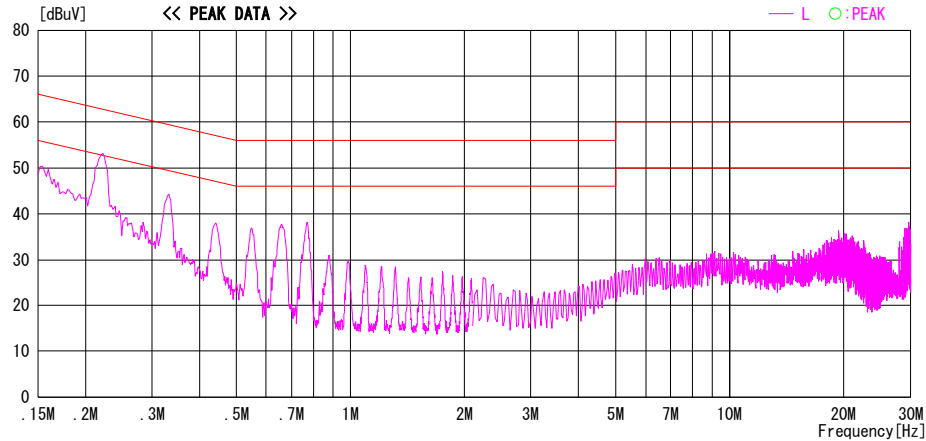
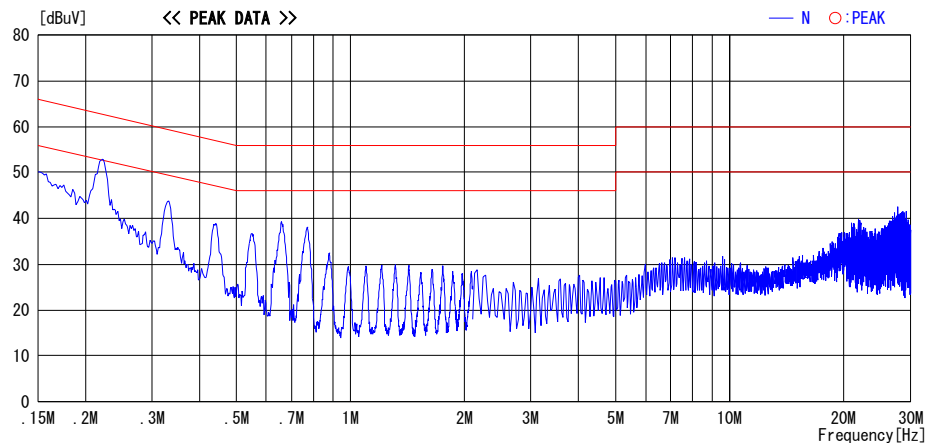


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C.F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

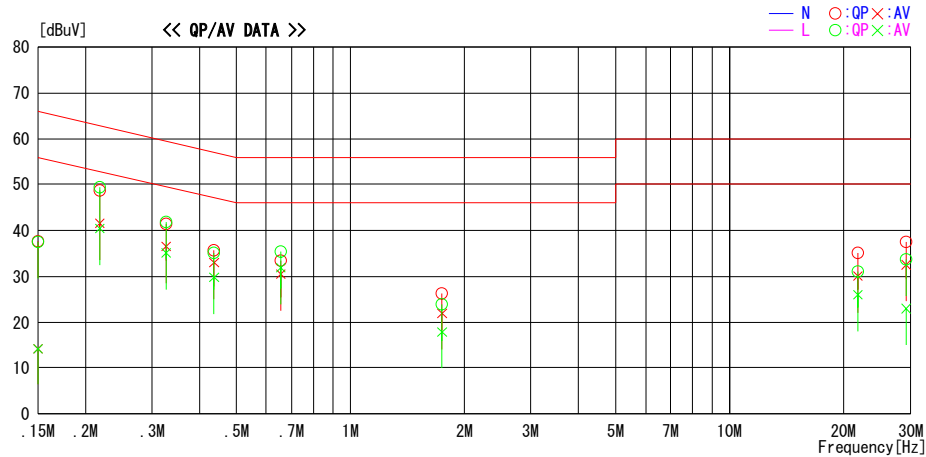
Conducted Emission
11g Rx, Ch:Mid
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/10

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA
Report No. : 27LE0180-YK
Power : AC 120V / 60Hz
Temp./Humi. : 25deg.C / 54%
Operator : Takahiro Hatakeda

Mode / Remarks : 11g Rx 2437MHz 54Mbps MainANT

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.15000	37.3	14.0	0.3	37.6	14.3	66.0	56.0	28.4	41.7	N
0.21833	48.4	41.2	0.3	48.7	41.5	62.9	52.9	14.2	11.4	N
0.32700	41.1	36.2	0.3	41.4	36.5	59.5	49.5	18.1	13.0	N
0.43669	35.4	32.7	0.3	35.7	33.0	57.1	47.1	21.4	14.1	N
0.65516	33.1	30.2	0.3	33.4	30.5	56.0	46.0	22.6	15.5	N
1.74646	25.9	21.6	0.4	26.3	22.0	56.0	46.0	29.7	24.0	N
21.82402	33.3	28.3	1.8	35.1	30.1	60.0	50.0	24.9	19.9	N
29.24312	35.4	30.4	2.1	37.5	32.5	60.0	50.0	22.5	17.5	N
0.15000	37.2	14.0	0.3	37.5	14.3	66.0	56.0	28.5	41.7	L
0.21833	49.1	40.1	0.3	49.4	40.4	62.9	52.9	13.5	12.5	L
0.32700	41.5	34.8	0.3	41.8	35.1	59.5	49.5	17.7	14.4	L
0.43669	34.8	29.5	0.3	35.1	29.8	57.1	47.1	22.0	17.3	L
0.65516	35.1	31.6	0.3	35.4	31.9	56.0	46.0	20.6	14.1	L
1.74646	23.5	17.5	0.4	23.9	17.9	56.0	46.0	32.1	28.1	L
21.82402	29.3	24.2	1.8	31.1	26.0	60.0	50.0	28.9	24.0	L
29.24312	31.6	20.9	2.1	33.7	23.0	60.0	50.0	26.3	27.0	L

CHART: WITH FACTOR, Peak hold data. CALCULATION: 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 Rx, Ch:165 (5825MHz)

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber

Date : 2007/08/09

Company : NEC Corporation

Kind of EUT : Factory Computer FC-NOTE series

Model No. : FC-N21S/BY5SS

Serial No. : S760538MA

Report No. : 27LE0180-YK

Power : AC 120V / 60Hz

Temp./Humi. : 25deg. C / 54%

Operator : Takahiro Hatakeda

Mode / Remarks : 11a Rx 5825MHz 12Mbps MainANT

LIMIT : FCC15. 207 QP

FCC15. 207 AV

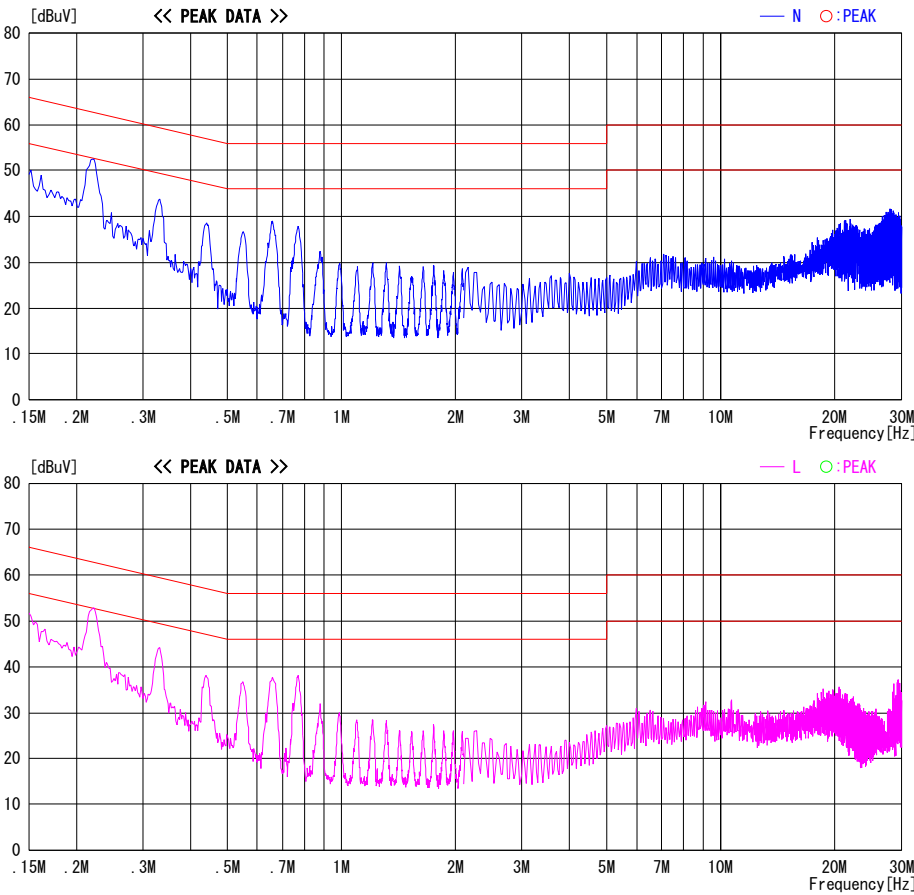


CHART:WITH FACTOR, Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C. F[dB] (LISN LOSS+CABLE LOSS)

Except for the above table : adequate margin data below the limits.

6dB Bandwidth

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

Company	: NEC Corporation	Regulation	: FCC Part15 Subpart C 15.247(a)(2) / RSS-210 A8.2(a)
Equipment	: Factory Computer FC-NOTE series	Test Distance	-
Model	: FC-N21S/BY5SS	Date	: 08/07/2007
S/N	: S760538MA	Temperature	: 25 deg.C.
Power	: AC 120V / 60Hz	Humidity	: 62%
Mode	: 11b, Transmitting (Tx), 11Mbps / 11g, Transmitting (Tx), 54Mbps / 11a, Transmitting (Tx), 12Mbps / Main ANT	Engineer	: Takashi Nakazawa

[IEEE802.11b] ANT Main, 11Mbps (Worst)

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	8.348	>500
Mid	2437.0	9.032	>500
High	2462.0	9.029	>500

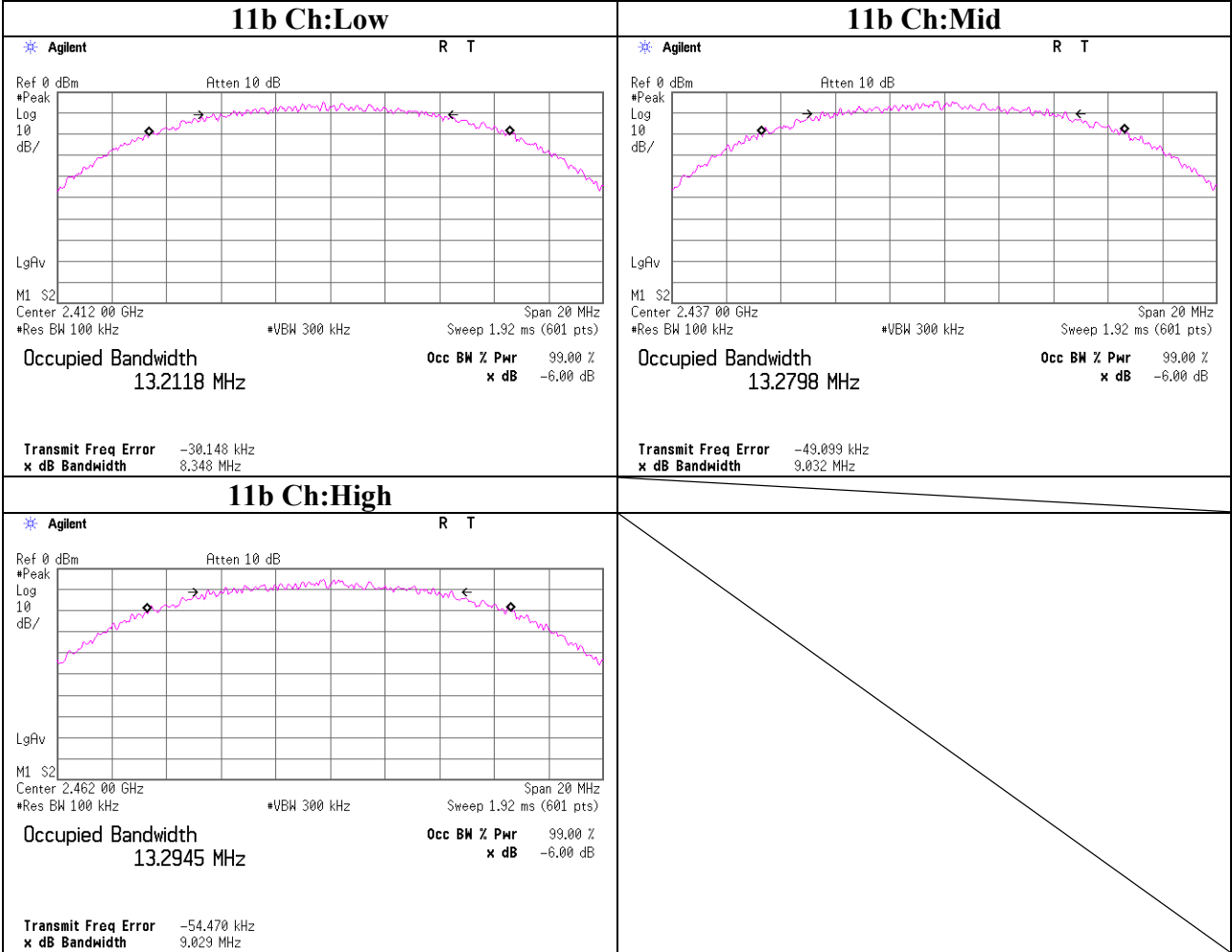
[IEEE802.11g] ANT Main, 54Mbps (Worst)

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	16.545	>500
Mid	2437.0	16.537	>500
High	2462.0	16.531	>500

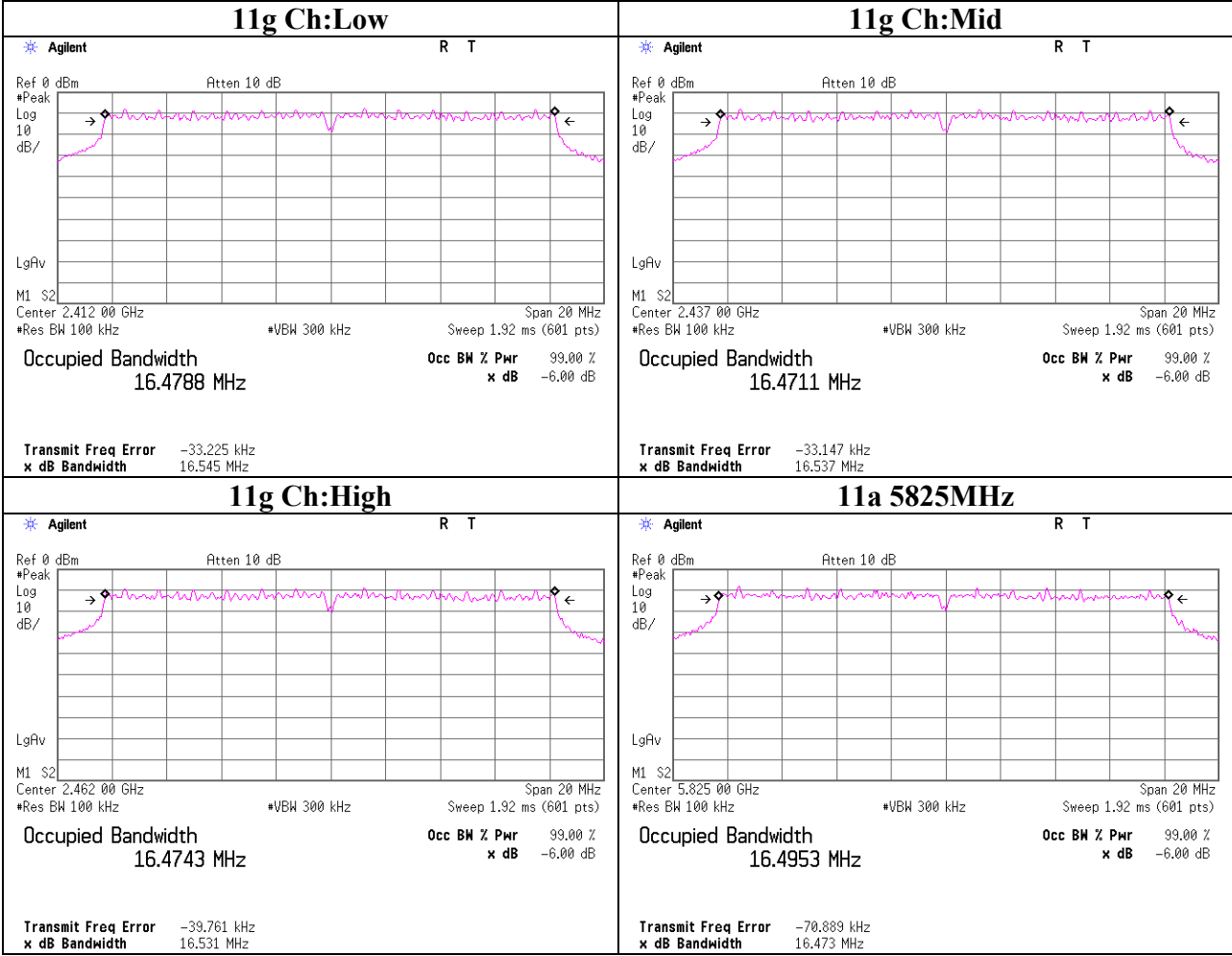
[IEEE802.11a] ANT Main, 12Mbps (Worst)

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
165	5825.0	16.473	>500

6dB Bandwidth



6dB Bandwidth



Maximum Peak Output Power

11b

UL Japan, Inc.

Head Office EMC Lab. No.6 Shielded room

Company : NEC Corporation
Equipment : Factory Computer FC-NOTE series

Regulation : FCC Part15 Subpart C 15.247(b)(3) / RSS-210 A8.4(4)
Test Distance : -

Model : FC-N21S/BY5SS
S/N : S760538MA
Power : AC 120V / 60Hz
Mode : 11b, Transmitting (Tx), 11Mbps
Main ANT

Date : 08/07/2007
Temperature : 25 deg.C.
Humidity : 62%
Engineer : Takashi Nakazawa

[IEEE802.11b] 11Mbps (Worst)

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	6.14	1.88	10.04	18.06	63.97	30.00	1000	11.94
Mid	2437.0	6.15	1.90	10.04	18.09	64.42	30.00	1000	11.91
High	2462.0	5.34	1.91	10.04	17.29	53.58	30.00	1000	12.71

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

11b DATA Rate and Antenna Check

[IEEE 802.11b] ANT:MAIN PK

Rate [MBPS]	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result	
					[dBm]	[mW]
1	2437	7.15	0.88	10.02	18.05	63.83
2	2437	7.11	0.88	10.02	18.01	63.24
5.5	2437	7.09	0.88	10.02	17.99	62.95
11	2437	7.19	0.88	10.02	18.09	64.42

[IEEE 802.11b] ANT:AUX PK

Rate [MBPS]	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result	
					[dBm]	[mW]
1	2437	6.66	0.88	10.02	17.56	57.02
2	2437	6.63	0.88	10.02	17.53	56.62
5.5	2437	6.61	0.88	10.02	17.51	56.36
11	2437	6.72	0.88	10.02	17.62	57.81

Referencedata of SAR testing (AVG Power)

11b/Main Antenna

Data rate	Freq.	P/M Reading	Cable Loss	Atten. Loss	Result	
[Mbps]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]
1	2437.0	4.82	0.88	10.02	15.72	37.33

11b/AUX Antenna

Data rate	Freq.	P/M Reading	Cable Loss	Atten. Loss	Result	
[Mbps]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]
1	2437.0	4.25	0.88	10.02	15.15	32.73

Sample Calculation: Result = Reading + Cable Loss + Attenuator Loss

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

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Maximum Peak Output Power

11g

UL Japan, Inc.

Head Office EMC Lab. No.6 Shielded room

Company : NEC Corporation
Equipment : Factory Computer FC-NOTE
series

Regulation : FCC Part15 Subpart C 15.247(b)(3) / RSS-210 A8.4(4)
Test Distance : -

Model : FC-N21S/BY5SS
S/N : S760538MA
Power : AC 120V / 60Hz
Mode : 11g, Transmitting (Tx), 54Mbps
Main ANT

Date : 08/07/2007
Temperature : 25 deg.C.
Humidity : 62%
Engineer : Takashi Nakazawa

[IEEE802.11g] 54Mbps (Worst)

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	11.90	1.88	10.04	23.82	240.99	30.00	1000	6.18
Mid	2437.0	11.94	1.90	10.04	23.88	244.34	30.00	1000	6.12
High	2462.0	11.20	1.91	10.04	23.15	206.54	30.00	1000	6.85

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

11g Data Rate and Antenna Check

[IEEE 802.11g] ANT:MAIN PK

Rate [MBPS]	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result	
					[dBm]	[mW]
6	2437	12.75	0.88	10.02	23.65	231.74
9	2437	12.61	0.88	10.02	23.51	224.39
12	2437	12.95	0.88	10.02	23.85	242.66
18	2437	12.69	0.88	10.02	23.59	228.56
24	2437	12.91	0.88	10.02	23.81	240.44
36	2437	12.91	0.88	10.02	23.81	240.44
48	2437	12.78	0.88	10.02	23.68	233.35
54	2437	12.98	0.88	10.02	23.88	244.34

[IEEE 802.11g] ANT:AUX PK

Rate [MBPS]	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result	
					[dBm]	[mW]
6	2437	12.73	0.88	10.02	23.63	230.67
9	2437	12.55	0.88	10.02	23.45	221.31
12	2437	12.91	0.88	10.02	23.81	240.44
18	2437	12.59	0.88	10.02	23.49	223.36
24	2437	12.86	0.88	10.02	23.76	237.68
36	2437	12.88	0.88	10.02	23.78	238.78
48	2437	12.74	0.88	10.02	23.64	231.21
54	2437	12.95	0.88	10.02	23.85	242.66

Referencedata of SAR testing (AVG Power)

11g/Main Antenna

Data rate	Freq.	P/M(AV) Reading	Cable Loss	Atten. Loss	Result	
[Mbps]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]
6	2437.0	3.52	0.88	10.02	14.42	27.67

11g/AUX Antenna

Data rate	Freq.	P/M(AV) Reading	Cable Loss	Atten. Loss	Result	
[Mbps]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]
6	2437.0	3.48	0.88	10.02	14.38	27.42

Sample Calculation: Result = Reading + Cable Loss + Attenuator Loss

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

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Maximum Peak Output Power

11a

Company : NEC Corporation
Equipment : Factory Computer FC-NOTE series
Model : FC-N21S/BY5SS
S/N : S760538MA
Power : AC 120V / 60Hz
Mode : 11a, Transmitting (Tx), 12Mbps
Main ANT

UL Japan, Inc.
Head Office EMC Lab. No.6 Shielded room
Regulation : FCC Part15 Subpart C 15.247(b)(3) / RSS-210 A8.4(4)
Test Distance : -

Date : 08/07/2007
Temperature : 25 deg.C.
Humidity : 62%
Engineer : Takashi Nakazawa

[IEEE802.11a] 12Mbps (Worst)

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
165	5825.0	9.80	2.93	10.24	22.97	198.15	30.00	1000	7.03

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

11a Data Rate and Antenna Check

[IEEE802.11a] ANT:MAIN PK

Rate [Mbps]	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result	
					[dBm]	[mW]
6	5260.0	12.10	1.3	10.1	23.47	222.33
9	5260.0	11.67	1.3	10.1	23.04	201.37
12	5260.0	12.18	1.3	10.1	23.55	226.46
18	5260.0	11.54	1.3	10.1	22.91	195.43
24	5260.0	12.13	1.3	10.1	23.49	223.36
36	5260.0	11.99	1.3	10.1	23.35	216.27
48	5260.0	11.73	1.3	10.1	23.09	203.70
54	5260.0	11.58	1.3	10.1	22.93	196.34

[IEEE802.11a] ANT:AUX PK

Rate [Mbps]	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result	
					[dBm]	[mW]
6	5260.0	11.91	1.3	10.1	23.28	212.81
9	5260.0	11.63	1.3	10.1	23.00	199.53
12	5260.0	12.04	1.3	10.1	23.41	219.28
18	5260.0	11.21	1.3	10.1	22.58	181.13
24	5260.0	12.03	1.3	10.1	23.39	218.27
36	5260.0	11.78	1.3	10.1	23.14	206.06
48	5260.0	11.56	1.3	10.1	22.92	195.88
54	5260.0	11.56	1.3	10.1	22.91	195.43

Sample Calculation: Result [dBm] = Reading [dBm] + Cable Loss [dB] + Attenuator Loss [dB].

*Ant: Aux's data and Main's Rate 6M,9M,18M,24M,36M,48M,54Mbps's data are a preliminary test data (reference data).

* For 11a, the test was performed at 5260MHz, because this wireless module consists of one chip of 2.4GHz band and 5GHz band, and the preliminary test was performed at 5260MHz in both section 15.247 and 15.407(Refer to 27LE0180-YK-B). However, since the measurement method differs in the section 15.247 and 15.407, it was checked in each way.

Referencedata of SAR testing (AVG Power)

ANT:Main, 12Mbps

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result	
					[dBm]	[mW]
165	5825.0	1.55	2.93	10.24	14.72	29.65

ANT:Aux, 12Mbps

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result	
					[dBm]	[mW]
165	5825.0	1.11	2.93	10.24	14.28	26.79

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

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Radiated Spurious Emission (below 1GHz)
11b Tx, Ch:Low

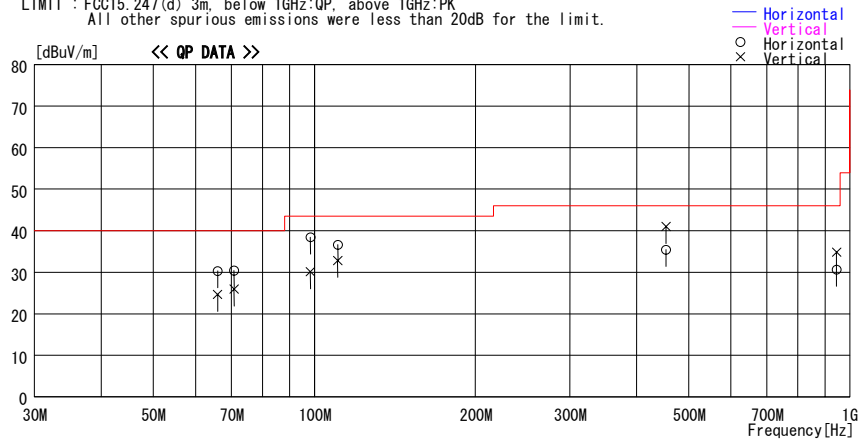
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/07

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA
Report No. : 27LE0180-YK
Power : AC120V / 60Hz
Temp./Humi. : 25deg. C. / 62%
Operator : Takumi Shimada

Mode / Remarks: Transmitting mode 11b 2412MHz 11Mbps MainANT

LIMIT : FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg.]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss & Gain [dB]							
65.988	41.2	QP	7.7	-24.3	24.6	321	100	Vert.	40.0	15.4	
65.994	46.9	QP	7.7	-24.3	30.3	260	296	Hori.	40.0	9.7	
70.788	47.6	QP	7.1	-24.3	30.4	245	261	Hori.	40.0	9.6	
70.813	43.1	QP	7.1	-24.3	25.9	267	100	Vert.	40.0	14.1	
98.307	44.0	QP	10.1	-24.0	30.1	11	100	Vert.	43.5	13.4	
98.309	52.3	QP	10.1	-24.0	38.4	180	322	Hori.	43.5	5.1	
110.599	44.8	QP	11.9	-23.9	32.8	93	100	Vert.	43.5	10.7	
110.614	48.6	QP	11.9	-23.9	36.6	210	167	Hori.	43.5	6.9	
453.781	38.4	QP	18.0	-21.0	35.4	86	100	Hori.	46.0	10.6	
453.965	44.0	QP	18.0	-21.0	41.0	22	100	Vert.	46.0	5.0	
945.009	29.8	QP	22.4	-17.4	34.8	132	100	Vert.	46.0	11.2	
945.017	25.6	QP	22.4	-17.4	30.6	105	100	Hori.	46.0	15.4	

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 round off to one or two decimal places, so some differences might be observed.

Test report No. : 27LE0180-YK-A-R1
Page : 37 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (below 1GHz)
11b Tx, Ch:High

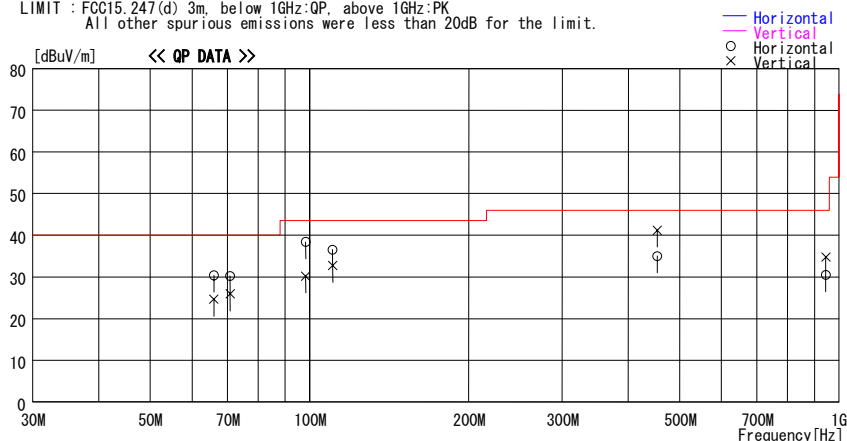
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/07

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA
Report No. : 27LE0180-YK
Power : AC120V / 60Hz
Temp./Humi. : 25deg. C. / 62%
Operator : Takumi Shimada

Mode / Remarks: Transmitting mode 11b 2462MHz 11Mbps MainANT

LIMIT : FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna		Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Gain							
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg.]	[cm]		[dBuV/m]	[dB]	
65.984	47.0	QP	7.7	-24.3	30.4	254	300	Hori.	40.0	9.6	
65.991	41.2	QP	7.7	-24.3	24.6	320	100	Vert.	40.0	15.4	
70.795	47.4	QP	7.1	-24.3	30.2	245	270	Hori.	40.0	9.8	
70.812	43.1	QP	7.1	-24.3	25.9	266	100	Vert.	40.0	14.1	
98.305	52.3	QP	10.1	-24.0	38.4	174	318	Hori.	43.5	5.1	
98.312	44.1	QP	10.1	-24.0	30.2	15	100	Vert.	43.5	13.3	
110.591	48.5	QP	11.9	-23.9	36.5	210	165	Hori.	43.5	7.0	
110.607	44.7	QP	11.9	-23.9	32.7	96	100	Vert.	43.5	10.8	
453.634	38.0	QP	18.0	-21.0	35.0	80	100	Hori.	46.0	11.0	
453.830	44.2	QP	18.0	-21.0	41.2	20	100	Vert.	46.0	4.8	
945.019	29.7	QP	22.4	-17.4	34.7	133	100	Vert.	46.0	11.3	
945.022	25.5	QP	22.4	-17.4	30.5	106	100	Hori.	46.0	15.5	

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 round off to one or two decimal places, so some differences might be observed.

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Test report No. : 27LE0180-YK-A-R1
Page : 38 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (below 1GHz)
11g Tx, Ch:Low

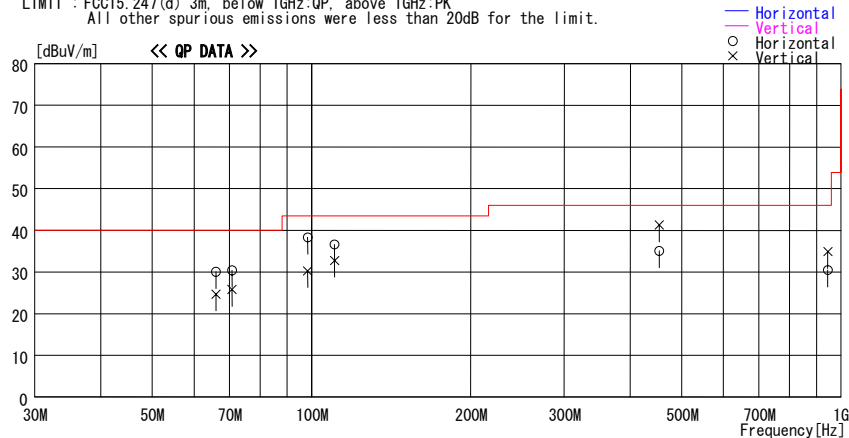
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/07

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA
Report No. : 27LE0180-YK
Power : AC120V / 60Hz
Temp./Humi. : 25deg. C. / 62%
Operator : Takumi Shimada

Mode / Remarks: Transmitting mode 11g 2412MHz 54Mbps MainANT

LIMIT : FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna		Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Gain							
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg.]	[cm]		[dBuV/m]	[dB]	
65.994	46.7	QP	7.7	-24.3	30.1	248	300	Hori.	40.0	9.9	
66.004	41.3	QP	7.7	-24.3	24.7	320	100	Vert.	40.0	15.3	
70.789	43.0	QP	7.1	-24.3	25.8	267	100	Vert.	40.0	14.2	
70.791	47.6	QP	7.1	-24.3	30.4	267	270	Hori.	40.0	9.6	
98.309	52.2	QP	10.1	-24.0	38.3	171	301	Hori.	43.5	5.2	
98.309	44.2	QP	10.1	-24.0	30.3	15	100	Vert.	43.5	13.2	
110.601	48.6	QP	11.9	-23.9	36.6	211	165	Hori.	43.5	6.9	
110.601	44.8	QP	11.9	-23.9	32.8	95	100	Vert.	43.5	10.7	
453.770	38.1	QP	18.0	-21.0	35.1	81	100	Hori.	46.0	10.9	
453.815	44.3	QP	18.0	-21.0	41.3	31	100	Vert.	46.0	4.7	
945.010	25.5	QP	22.4	-17.4	30.5	103	100	Hori.	46.0	15.5	
945.013	29.9	QP	22.4	-17.4	34.9	133	100	Vert.	46.0	11.1	

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 round off to one or two decimal places, so some differences might be observed.

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Test report No. : 27LE0180-YK-A-R1
Page : 39 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (below 1GHz) 11g Tx, Ch:Mid

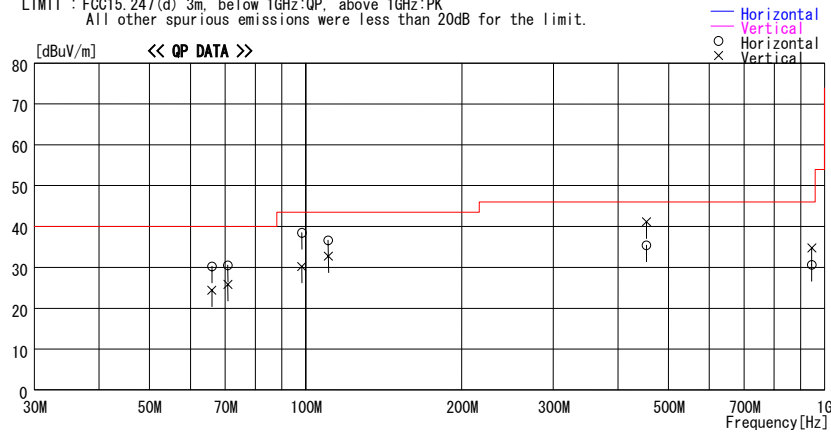
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2007/08/07

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA
Report No. : 27LE0180-YK
Power : AC120V / 60Hz
Temp./Humi. : 25deg.C. / 62%
Operator : Takumi Shimada

Mode / Remarks : Transmitting mode 11g 2437MHz 54Mbps MainANT

LIMIT : FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss &	Level [dBuV/m]	Angle [Deg.]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Gain [dB]							
65.989	46.8	QP	7.7	-24.3	30.2	258	299	Hori.	40.0	9.8	
65.991	41.0	QP	7.7	-24.3	24.4	320	100	Vert.	40.0	15.6	
70.806	43.0	QP	7.1	-24.3	25.9	269	100	Vert.	40.0	14.2	
70.807	47.7	QP	7.1	-24.3	30.5	251	256	Hori.	40.0	9.5	
98.306	44.1	QP	10.1	-24.0	30.2	8	100	Vert.	43.5	13.3	
98.308	52.4	QP	10.1	-24.0	38.5	177	302	Hori.	43.5	5.0	
110.598	48.6	QP	11.9	-23.9	36.6	209	180	Hori.	43.5	6.9	
110.605	44.7	QP	11.9	-23.9	32.7	100	100	Vert.	43.5	10.8	
453.809	38.4	QP	18.0	-21.0	35.4	79	100	Hori.	46.0	10.6	
453.850	44.1	QP	18.0	-21.0	41.1	18	100	Vert.	46.0	4.9	
945.016	25.6	QP	22.4	-17.4	30.6	104	100	Hori.	46.0	15.4	
945.016	29.7	QP	22.4	-17.4	34.7	132	100	Vert.	46.0	11.3	

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 round off to one or two decimal places, so some differences might be observed.

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Test report No. : 27LE0180-YK-A-R1
Page : 40 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (below 1GHz)
11g Tx, Ch:High

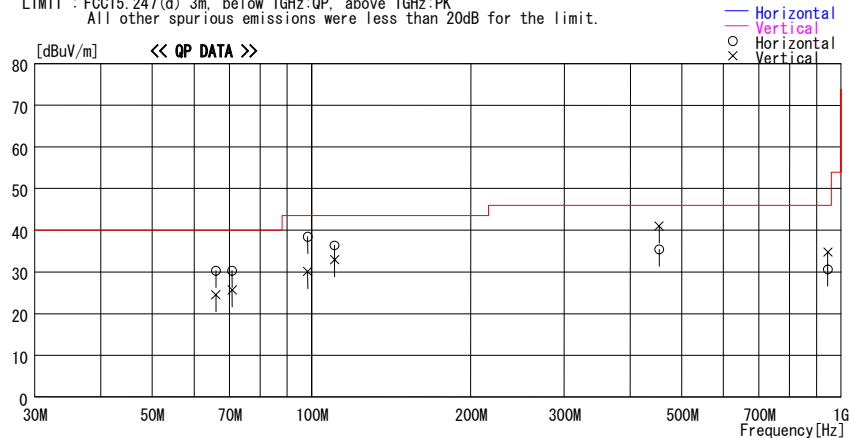
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/08/07

Company : NEC Corporation
Kind of EUT : Factory Computer FC-NOTE series
Model No. : FC-N21S/BY5SS
Serial No. : S760538MA
Report No. : 27LE0180-YK
Power : AC120V / 60Hz
Temp./Humi. : 25deg. C. / 62%
Operator : Takumi Shimada

Mode / Remarks : Transmitting mode 11g 2462MHz 54Mbps MainANT

LIMIT : FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna		Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Gain							
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg.]	[cm]		[dBuV/m]	[dB]	
65.987	41.1	QP	7.7	-24.3	24.5	330	100	Vert.	40.0	15.5	
66.002	46.9	QP	7.7	-24.3	30.3	255	300	Hori.	40.0	9.7	
70.785	47.5	QP	7.1	-24.3	30.3	233	271	Hori.	40.0	9.7	
70.821	42.9	QP	7.1	-24.3	25.7	259	100	Vert.	40.0	14.3	
98.306	52.4	QP	10.1	-24.0	38.5	177	304	Hori.	43.5	5.0	
98.308	44.0	QP	10.1	-24.0	30.1	4	100	Vert.	43.5	13.4	
110.595	48.4	QP	11.9	-23.9	36.4	189	173	Hori.	43.5	7.1	
110.598	44.9	QP	11.9	-23.9	32.9	223	100	Vert.	43.5	10.6	
453.670	44.0	QP	18.0	-21.0	41.0	11	100	Vert.	46.0	5.0	
453.895	38.4	QP	18.0	-21.0	35.4	90	100	Hori.	46.0	10.6	
945.011	29.7	QP	22.4	-17.4	34.7	127	100	Vert.	46.0	11.3	
945.012	25.6	QP	22.4	-17.4	30.6	108	100	Hori.	46.0	15.4	

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 round off to one or two decimal places, so some differences might be observed.

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Test report No. : 27LE0180-YK-A-R1
Page : 41 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (below 1GHz)
11a Tx, Ch:165(5825MHz)

DATA OF RADIATED EMISSION TEST

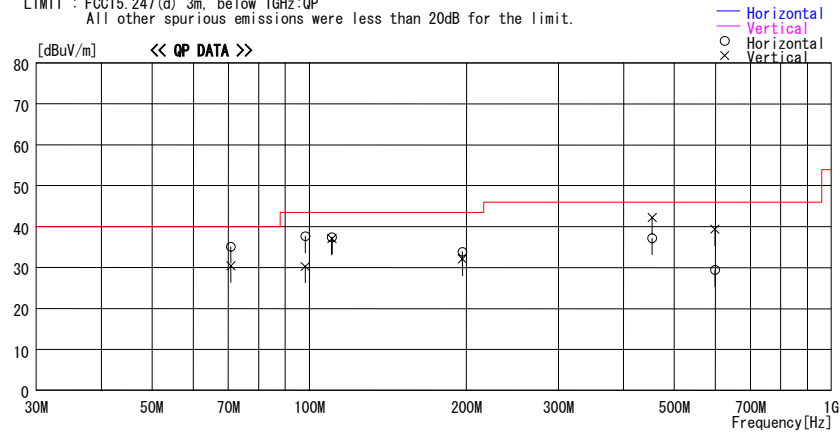
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation Report No. : 27LE0180-YK
Kind of EUT : Factory Computer FG-NOTE series Power : AC120V / 60Hz
Model No. : FG-N21S/BY5SS Temp./Humi. : 24deg.C / 57%
Serial No. : S760538MA Operator : Takahiro Hatakeda

Mode / Remarks : Transmitting mode 11a 5825MHz 12Mbps MainANT

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin
[MHz]	[dBuV]		Factor	Gain	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
70.802	48.4	QP	6.8	-20.1	35.1	246	279	Hori.	40.0	4.9
70.805	43.7	QP	6.8	-20.1	30.4	7	100	Vert.	40.0	9.6
98.303	47.6	QP	9.7	-19.6	37.7	194	301	Hori.	43.5	5.8
98.304	40.2	QP	9.7	-19.6	30.3	263	291	Vert.	43.5	13.2
110.596	45.2	QP	11.6	-19.4	37.4	214	207	Hori.	43.5	6.1
110.597	44.9	QP	11.6	-19.4	37.1	90	100	Vert.	43.5	6.4
196.610	32.7	QP	17.4	-18.0	32.1	23	100	Vert.	43.5	11.4
196.613	34.5	QP	17.4	-18.0	33.9	176	175	Hori.	43.5	9.6
453.821	41.2	QP	17.4	-16.4	42.2	17	129	Vert.	46.0	3.8
453.821	36.2	QP	17.4	-16.4	37.2	69	100	Hori.	46.0	8.8
598.496	35.9	QP	19.2	-15.7	39.4	208	100	Vert.	46.0	6.6
598.499	25.9	QP	19.2	-15.7	29.4	22	100	Hori.	46.0	16.6

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 round off to one or two decimal places, so some differences might be observed.

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Test report No. : 27LE0180-YK-A-R1
Page : 42 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (below 1GHz)
11b Rx, Ch:Mid

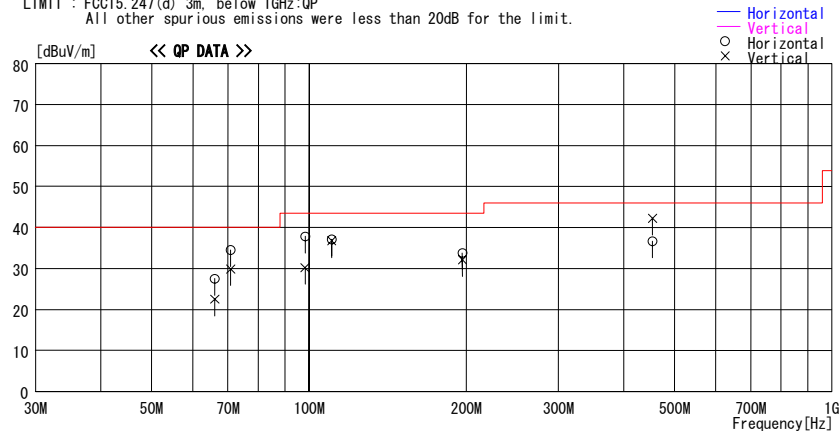
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation Report No. : 27LE0180-YK
Kind of EUT : Factory Computer FC-NOTE series Power : AC120V / 60Hz
Model No. : FC-N21S/BY5SS Temp./Humi. : 24deg.C. / 57%
Serial No. : S760538MA Operator : Takahiro Hatakeda

Mode / Remarks : Receiving mode 11b 2437MHz 11Mbps MainANT

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss Gain [dB]						
66.000	40.3	QP	7.4	-20.2	27.5	257	326	Hori.	40.0	12.5
66.005	35.3	QP	7.4	-20.2	22.5	332	281	Vert.	40.0	17.5
70.802	47.8	QP	6.8	-20.1	34.5	262	267	Hori.	40.0	5.5
70.799	43.2	QP	6.8	-20.1	29.9	11	100	Vert.	40.0	10.1
98.307	47.7	QP	9.7	-19.6	37.8	228	300	Hori.	43.5	5.7
98.309	40.1	QP	9.7	-19.6	30.2	268	320	Vert.	43.5	13.3
110.596	44.9	QP	11.6	-19.4	37.1	221	195	Hori.	43.5	6.4
110.597	44.5	QP	11.6	-19.4	36.7	90	100	Vert.	43.5	6.8
196.614	34.4	QP	17.4	-18.0	33.8	164	175	Hori.	43.5	9.7
196.612	32.7	QP	17.4	-18.0	32.1	16	100	Vert.	43.5	11.4
453.808	35.6	QP	17.4	-16.4	36.6	68	102	Hori.	46.0	9.4
453.751	41.2	QP	17.4	-16.4	42.2	22	135	Vert.	46.0	3.8

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 round off to one or two decimal places, so some differences might be observed.

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Test report No. : 27LE0180-YK-A-R1
Page : 43 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (below 1GHz)
11g Rx, Ch:Mid

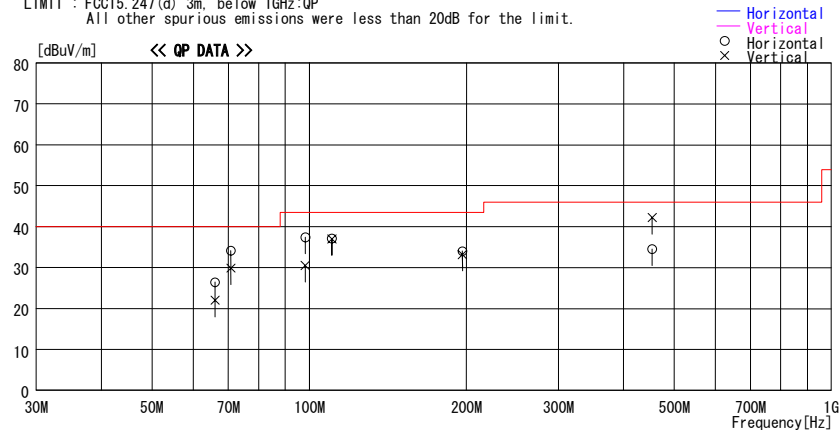
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation Report No. : 27LE0180-YK
Kind of EUT : Factory Computer FC-NOTE series Power : AC120V / 60Hz
Model No. : FC-N21S/BY5SS Temp./Humi. : 24deg.C / 57%
Serial No. : S760538MA Operator : Takahiro Hatakeda

Mode / Remarks : Receiving mode 11g 2437MHz 54Mbps MainANT

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin
[MHz]	[dBuV]		Factor	Gain	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
66.002	39.2	QP	7.4	-20.2	26.4	272	282	Hori.	40.0	13.6
66.002	34.8	QP	7.4	-20.2	22.0	337	274	Vert.	40.0	18.0
70.801	47.4	QP	6.8	-20.1	34.1	268	260	Hori.	40.0	5.9
70.802	43.2	QP	6.8	-20.1	29.9	13	100	Vert.	40.0	10.1
98.306	40.4	QP	9.7	-19.6	30.5	254	300	Vert.	43.5	13.0
98.307	47.3	QP	9.7	-19.6	37.4	201	309	Hori.	43.5	6.1
110.593	44.9	QP	11.6	-19.4	37.1	208	227	Hori.	43.5	6.4
110.595	44.8	QP	11.6	-19.4	37.0	123	100	Vert.	43.5	6.5
196.611	34.6	QP	17.4	-18.0	34.0	165	171	Hori.	43.5	9.5
196.612	33.8	QP	17.4	-18.0	33.2	180	100	Vert.	43.5	10.3
453.765	41.2	QP	17.4	-16.4	42.2	15	130	Vert.	46.0	3.8
453.821	33.5	QP	17.4	-16.4	34.5	56	100	Hori.	46.0	11.5

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 round off to one or two decimal places, so some differences might be observed.

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Test report No. : 27LE0180-YK-A-R1
Page : 44 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (below 1GHz)
11a Rx, Ch: 165(5825MHz)

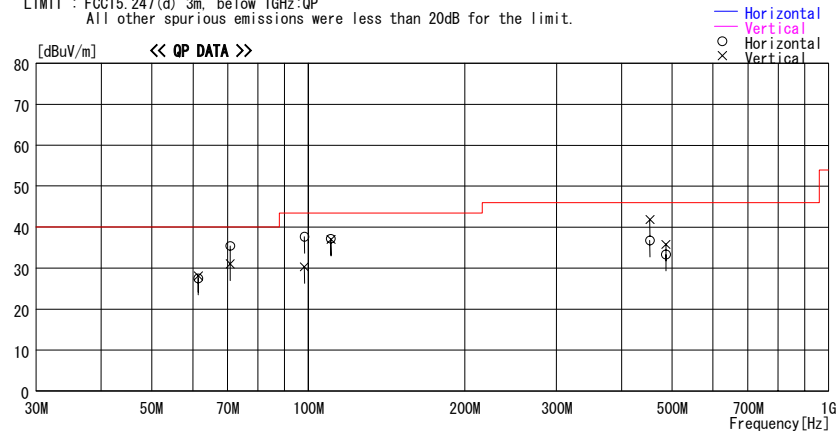
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/09

Company : NEC Corporation Report No. : 27LE0180-YK
Kind of EUT : Factory Computer FG-NOTE series Power : AC120V / 60Hz
Model No. : FG-N21S/BY5SS Temp./Humi. : 24deg.C. / 57%
Serial No. : S760538MA Operator : Takahiro Hatakeda

Mode / Remarks : Receiving mode 11a 5825MHz 12Mbps MainANT

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Gain [dB]						
61.441	39.7	QP	8.2	-20.4	27.5	83	361	Hori.	40.0	12.5
61.443	40.3	QP	8.2	-20.4	28.1	119	100	Vert.	40.0	11.9
70.802	44.3	QP	6.8	-20.1	31.0	12	100	Vert.	40.0	9.0
70.805	48.7	QP	6.8	-20.1	35.4	269	257	Hori.	40.0	4.6
98.308	40.2	QP	9.7	-19.6	30.3	267	289	Vert.	43.5	13.2
98.308	47.6	QP	9.7	-19.6	37.7	195	307	Hori.	43.5	5.8
110.597	45.0	QP	11.6	-19.4	37.2	227	177	Hori.	43.5	6.3
110.599	44.8	QP	11.6	-19.4	37.0	72	100	Vert.	43.5	6.5
453.805	35.8	QP	17.4	-16.4	36.8	61	100	Hori.	46.0	9.2
453.843	40.8	QP	17.4	-16.4	41.8	31	133	Vert.	46.0	4.2
486.820	31.6	QP	18.1	-16.4	33.3	73	100	Hori.	46.0	12.7
486.823	34.1	QP	18.1	-16.4	35.8	221	100	Vert.	46.0	10.2

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 round off to one or two decimal places, so some differences might be observed.

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Test report No. : 27LE0180-YK-A-R1
Page : 45 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (above 1GHz)

11b Tx, Ch:Low

UL Japan, Inc.

Head Office EMC Lab. No.1 Semi Anechoic Chamber

Company : NEC Corporation
Equipment : Factory Computer FC-NOTE
series

Regulation : FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Test Distance 3m / 1m

Model : FC-N21S/BY5SS
S/N : S760538MA
Power : AC 120V / 60Hz
Mode : 11b, Transmitting (Tx), 11Mbps /
Main ANT
Position : Hor.: X-axis, Ver.: X-axis

Date : 08/02/2007 , 08/03/2007
Temperature : 27 deg.C. , 24 deg.C.
Humidity : 53% , 62%
Engineer : Shinya Watanabe , Takumi Shimada

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	67.0	59.2	27.1	36.4	2.9	0.0	60.6	52.8	73.9	13.3	21.1
2 **	2400.0	69.8	66.4	27.1	36.4	2.9	0.0	63.4	60.0	-	-	-
3	4824.0	46.8	46.6	31.3	36.3	3.7	0.9	46.4	46.2	73.9	27.5	27.7
4	7236.0	46.1	46.1	35.8	36.4	4.7	0.7	50.9	50.9	73.9	23.0	23.0
5	9648.0	47.9	46.9	38.6	36.6	5.3	0.5	55.7	54.7	73.9	18.2	19.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	NS	NS	-	-	-	-	-	-	73.9	-	-
7	14472.0	NS	NS	-	-	-	-	-	-	73.9	-	-
8	16884.0	NS	NS	-	-	-	-	-	-	73.9	-	-
9	19296.0	NS	NS	-	-	-	-	-	-	73.9	-	-
10	21708.0	NS	NS	-	-	-	-	-	-	73.9	-	-
11	24120.0	50.5	50.4	40.7	35.8	8.8	0.0	54.7	54.6	73.9	19.2	19.3

** Reference data

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	53.9	45.3	27.1	36.4	2.9	0.0	47.5	38.9	53.9	6.4	15.0
2 **	2400.0	57.8	54.0	27.1	36.4	2.9	0.0	51.4	47.6	-	-	-
3	4824.0	32.7	32.7	31.3	36.3	3.7	0.9	32.3	32.3	53.9	21.6	21.6
4	7236.0	32.8	32.8	35.8	36.4	4.7	0.7	37.6	37.6	53.9	16.3	16.3
5	9648.0	33.6	33.7	38.6	36.6	5.3	0.5	41.4	41.5	53.9	12.5	12.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	NS	NS	-	-	-	-	-	-	53.9	-	-
7	14472.0	NS	NS	-	-	-	-	-	-	53.9	-	-
8	16884.0	NS	NS	-	-	-	-	-	-	53.9	-	-
9	19296.0	NS	NS	-	-	-	-	-	-	53.9	-	-
10	21708.0	NS	NS	-	-	-	-	-	-	53.9	-	-
11	24120.0	36.3	36.3	40.7	35.8	8.8	0.0	40.5	40.5	53.9	13.4	13.4

** Reference data

20dBc(Fundamental 2412MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER					Factor	GAIN		LOSS	Filter
	[MHz]		[dBuV]	[dB/m]	[dB]	[dB]	[dB]		[dBuV/m]	[dBuV/m]	[dB]	[dB]
0	2412.0	104.7	103.3	27.1	36.4	2.9	0.0	98.3	96.9	-	-	-
2	2400.0	63.2	58.7	27.1	36.4	2.9	0.0	56.8	52.3	Funda-20dB	21.5	24.6

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

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

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

*Hi-Pass Filter was not used for factor 0.0dB of the above table.

*NS: Non Signal

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Test report No. : 27LE0180-YK-A-R1
Page : 46 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (above 1GHz)
11b Tx, Ch:Mid

UL Japan, Inc.
Head Office EMC Lab. No.1 Semi Anechoic Chamber

Company	: NEC Corporation	REPORT NO	: 27LE0180-YK
Equipment	: Factory Computer FC-NOTE series	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: FC-N21S / BY5SS	TEST DISTANCE	: 3/1m
Sample No.	: S760538MA	DATE	: 08/02/2007 : 08/03/2007
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 27deg.C : 24deg.C
Mode	: 11b Tx 11Mbps 2437MHz MainANT	HUMIDITY	: 53% : 62%
Remarks	: Hor X , Ver X-axis	ENGINEER	: Shinya Watanabe : Takumi Shimada

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.0	45.0	45.3	31.4	36.3	3.8	1.0	44.9	45.2	73.9	29.0	28.7
2	7311.0	47.1	46.8	35.9	36.4	4.8	0.7	52.1	51.8	73.9	21.8	22.1
3	9748.0	46.8	46.6	38.7	36.7	5.3	0.5	54.6	54.4	73.9	19.3	19.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	NS	NS	-	-	-	-	-	-	73.9	-	-
5	14622.0	NS	NS	-	-	-	-	-	-	73.9	-	-
6	17059.0	NS	NS	-	-	-	-	-	-	73.9	-	-
7	19496.0	NS	NS	-	-	-	-	-	-	73.9	-	-
8	21933.0	NS	NS	-	-	-	-	-	-	73.9	-	-
9	24370.0	51.0	50.7	40.7	35.6	8.9	0.0	55.5	55.2	73.9	18.4	18.7

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

No.	FREQ [MHz]	S/A READING [dBuV]		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT [dBuV/m]		Limit AV [dBuV/m]	MARGIN [dB]	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.0	31.8	31.9	31.4	36.3	3.8	1.0	31.7	31.8	53.9	22.2	22.1
2	7311.0	33.2	33.2	35.9	36.4	4.8	0.7	38.2	38.2	53.9	15.7	15.7
3	9748.0	33.3	33.3	38.7	36.7	5.3	0.5	41.1	41.1	53.9	12.8	12.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	NS	NS	-	-	-	-	-	-	53.9	-	-
5	14622.0	NS	NS	-	-	-	-	-	-	53.9	-	-
6	17059.0	NS	NS	-	-	-	-	-	-	53.9	-	-
7	19496.0	NS	NS	-	-	-	-	-	-	53.9	-	-
8	21933.0	NS	NS	-	-	-	-	-	-	53.9	-	-
9	24370.0	36.2	36.2	40.7	35.6	8.9	0.0	40.7	40.7	53.9	13.2	13.2

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

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

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

*Hi-Pass Filter was not used for factor 0.0dB of the above table.

*NS: Non Signal

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Test report No. : 27LE0180-YK-A-R1
Page : 47 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
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Radiated Spurious Emission (above 1GHz)
11b Tx, Ch:High

UL Japan, Inc.
Head Office EMC Lab. No.1 Semi Anechoic Chamber

Company	: NEC Corporation	REPORT NO	: 27LE0180-YK
Equipment	: Factory Computer FC-NOTE series	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: FC-N21S / BY5SS	TEST DISTANCE	: 3/1m
Sample No.	: S760538MA	DATE	: 08/02/2007 : 08/03/2007
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 27deg.C : 24deg.C
Mode	: 11b Tx 11Mbps 2462MHz MainANT	HUMIDITY	: 53% : 62%
Remarks	: Hor X , Ver X-axis	ENGINEER	: Shinya Watanabe : Takumi Shimada

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	60.2	61.0	27.2	36.4	2.9	0.0	53.9	54.7	73.9	20.0	19.2
2	4924.0	49.5	47.7	31.5	36.3	3.8	1.0	49.5	47.7	73.9	24.4	26.2
3	7386.0	47.3	46.6	36.1	36.4	4.8	0.7	52.5	51.8	73.9	21.4	22.1
4	9848.0	46.5	46.1	38.8	36.7	5.4	0.5	54.5	54.1	73.9	19.4	19.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	NS	NS	-	-	-	-	-	-	73.9	-	-
6	14772.0	NS	NS	-	-	-	-	-	-	73.9	-	-
7	17234.0	NS	NS	-	-	-	-	-	-	73.9	-	-
8	19696.0	NS	NS	-	-	-	-	-	-	73.9	-	-
9	22158.0	NS	NS	-	-	-	-	-	-	73.9	-	-
10	24620.0	50.6	50.5	40.8	35.4	8.9	0.0	55.4	55.3	73.9	18.5	18.6

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	46.7	47.5	27.2	36.4	2.9	0.0	40.4	41.2	53.9	13.5	12.7
2	4924.0	35.5	34.5	31.5	36.3	3.8	1.0	35.5	34.5	53.9	18.4	19.4
3	7386.0	33.1	33.2	36.1	36.4	4.8	0.7	38.3	38.4	53.9	15.6	15.5
4	9848.0	33.4	33.4	38.8	36.7	5.4	0.5	41.4	41.4	53.9	12.5	12.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	NS	NS	-	-	-	-	-	-	53.9	-	-
6	14772.0	NS	NS	-	-	-	-	-	-	53.9	-	-
7	17234.0	NS	NS	-	-	-	-	-	-	53.9	-	-
8	19696.0	NS	NS	-	-	-	-	-	-	53.9	-	-
9	22158.0	NS	NS	-	-	-	-	-	-	53.9	-	-
10	24620.0	35.8	35.8	40.8	35.4	8.9	0.0	40.6	40.6	53.9	13.3	13.3

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

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.

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

*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

*NS:Non Signal

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Test report No. : 27LE0180-YK-A-R1
Page : 48 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (above 1GHz)
11g Tx, Ch:Low

UL Japan, Inc.
Head Office EMC Lab. No1 Semi Anechoic Chamber

Company : NEC Corporation
Equipment : Factory Computer FC-NOTE series
Model : FC-N21S / BY5SS
Sample No. : S760538MA
Power : AC 120 V / 60 Hz
Mode : 11g Tx 54Mbps 2412MHz MainANT
Remarks : Hor X , Ver X-axis

REPORT NO : 27LE0180-YK
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3/1m
DATE : 08/02/2007 : 08/03/2007
TEMPERATURE : 27deg.C : 24deg.C
HUMIDITY : 53% : 62%
ENGINEER : Shinya Watanabe : Takumi Shimada

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	69.5	70.6	27.1	36.4	2.9	0.0	63.1	64.2	73.9	10.8	9.7
2 **	2400.0	83.8	82.9	27.1	36.4	2.9	0.0	77.4	76.5	-	-	-
3	4824.0	45.4	44.9	31.3	36.3	3.7	0.9	45.0	44.5	73.9	28.9	29.4
4	7236.0	46.4	46.0	35.8	36.4	4.7	0.7	51.2	50.8	73.9	22.7	23.1
5	9648.0	47.3	46.1	38.6	36.6	5.3	0.5	55.1	53.9	73.9	18.8	20.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	NS	NS	-	-	-	-	-	-	73.9	-	-
7	14472.0	NS	NS	-	-	-	-	-	-	73.9	-	-
8	16884.0	NS	NS	-	-	-	-	-	-	73.9	-	-
9	19296.0	NS	NS	-	-	-	-	-	-	73.9	-	-
10	21708.0	NS	NS	-	-	-	-	-	-	73.9	-	-
11	24120.0	50.4	50.9	40.7	35.8	8.8	0.0	54.6	55.1	73.9	19.3	18.8

** Reference data

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	54.5	54.7	27.1	36.4	2.9	0.0	48.1	48.3	53.9	5.8	5.6
2 **	2400.0	58.9	58.6	27.1	36.4	2.9	0.0	52.5	52.2	-	-	-
3	4824.0	31.7	31.7	31.3	36.3	3.7	0.9	31.3	31.3	53.9	22.6	22.6
4	7236.0	32.8	32.8	35.8	36.4	4.7	0.7	37.6	37.6	53.9	16.3	16.3
5	9648.0	33.5	33.5	38.6	36.6	5.3	0.5	41.3	41.3	53.9	12.6	12.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	NS	NS	-	-	-	-	-	-	53.9	-	-
7	14472.0	NS	NS	-	-	-	-	-	-	53.9	-	-
8	16884.0	NS	NS	-	-	-	-	-	-	53.9	-	-
9	19296.0	NS	NS	-	-	-	-	-	-	53.9	-	-
10	21708.0	NS	NS	-	-	-	-	-	-	53.9	-	-
11	24120.0	36.2	36.2	40.7	35.8	8.8	0.0	40.4	40.4	53.9	13.5	13.5

** Reference data

20dBc(Fundamental 2412MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]									[dBuV/m]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2412.0	102.0	99.2	27.1	36.4	2.9	0.0	95.6	92.8	-	-	-
2	2400.0	68.5	67.7	27.1	36.4	2.9	0.0	62.1	61.3	Funda-20dB	13.5	11.5

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

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

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

*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

*NS:Non Signal

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Test report No. : 27LE0180-YK-A-R1
Page : 49 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (above 1GHz)
11g Tx, Ch:Mid

UL Japan, Inc.
Head Office EMC Lab. No1 Semi Anechoic Chamber

Company : NEC Corporation
Equipment : Factory Computer FC-NOTE series
Model : FC-N21S / BY5SS
Sample No. : S760538MA
Power : AC 120 V / 60 Hz
Mode : 11g Tx 54Mbps 2437MHz MainANT
Remarks : Hor X , Ver X-axis

REPORT NO : 27LE0180-YK
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3/1m
DATE : 08/02/2007 : 08/03/2007
TEMPERATURE : 27deg.C : 24deg.C
HUMIDITY : 53% : 62%
ENGINEER : Shinya Watanabe : Takumi Shimada

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.0	45.8	44.6	31.4	36.3	3.8	1.0	45.7	44.5	73.9	28.2	29.4
2	7311.0	46.3	46.1	35.9	36.4	4.8	0.7	51.3	51.1	73.9	22.6	22.8
3	9748.0	46.9	46.1	38.7	36.7	5.3	0.5	54.7	53.9	73.9	19.2	20.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	NS	NS	-	-	-	-	-	-	73.9	-	-
5	14622.0	NS	NS	-	-	-	-	-	-	73.9	-	-
6	17059.0	NS	NS	-	-	-	-	-	-	73.9	-	-
7	19496.0	NS	NS	-	-	-	-	-	-	73.9	-	-
8	21933.0	NS	NS	-	-	-	-	-	-	73.9	-	-
9	24370.0	51.1	50.7	40.7	35.6	8.9	0.0	55.6	55.2	73.9	18.3	18.7

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.0	31.8	31.8	31.4	36.3	3.8	1.0	31.7	31.7	53.9	22.2	22.2
2	7311.0	33.1	33.1	35.9	36.4	4.8	0.7	38.1	38.1	53.9	15.8	15.8
3	9748.0	33.2	33.2	38.7	36.7	5.3	0.5	41.0	41.0	53.9	12.9	12.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	NS	NS	-	-	-	-	-	-	53.9	-	-
5	14622.0	NS	NS	-	-	-	-	-	-	53.9	-	-
6	17059.0	NS	NS	-	-	-	-	-	-	53.9	-	-
7	19496.0	NS	NS	-	-	-	-	-	-	53.9	-	-
8	21933.0	NS	NS	-	-	-	-	-	-	53.9	-	-
9	24370.0	36.1	36.1	40.7	35.6	8.9	0.0	40.6	40.6	53.9	13.3	13.3

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

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

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

*Hi-Pass Filter was not used for factor 0.0dB of the above table.

*NS:Non Signal

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Test report No. : 27LE0180-YK-A-R1
Page : 50 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (above 1GHz)
11g Tx, Ch:High

UL Japan, Inc.
Head Office EMC Lab. No1 Semi Anechoic Chamber

Company	: NEC Corporation	REPORT NO	: 27LE0180-YK
Equipment	: Factory Computer FC-NOTE series	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: FC-N21S / BY5SS	TEST DISTANCE	: 3/1m
Sample No.	: S760538MA	DATE	: 08/02/2007 : 08/03/2007
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 27deg.C : 24deg.C
Mode	: 11g Tx 54Mbps 2462MHz MainANT	HUMIDITY	: 53% : 62%
Remarks	: Hor X , Ver X-axis	ENGINEER	: Shinya Watanabe : Takumi Shimada

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	71.6	71.7	27.2	36.4	2.9	0.0	65.3	65.4	73.9	8.6	8.5
2	4924.0	45.1	44.3	31.5	36.3	3.8	1.0	45.1	44.3	73.9	28.8	29.6
3	7386.0	46.6	46.6	36.1	36.4	4.8	0.7	51.8	51.8	73.9	22.1	22.1
4	9848.0	45.6	45.6	38.8	36.7	5.4	0.5	53.6	53.6	73.9	20.3	20.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	NS	NS	-	-	-	-	-	-	73.9	-	-
6	14772.0	NS	NS	-	-	-	-	-	-	73.9	-	-
7	17234.0	NS	NS	-	-	-	-	-	-	73.9	-	-
8	19696.0	NS	NS	-	-	-	-	-	-	73.9	-	-
9	22158.0	NS	NS	-	-	-	-	-	-	73.9	-	-
10	24620.0	50.4	50.7	40.8	35.4	8.9	0.0	55.2	55.5	73.9	18.7	18.4

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	54.2	54.4	27.2	36.4	2.9	0.0	47.9	48.1	53.9	6.0	5.8
2	4924.0	31.6	31.6	31.5	36.3	3.8	1.0	31.6	31.6	53.9	22.3	22.3
3	7386.0	32.9	32.3	36.1	36.4	4.8	0.7	38.1	37.5	53.9	15.8	16.4
4	9848.0	33.0	33.0	38.8	36.7	5.4	0.5	41.0	41.0	53.9	12.9	12.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	NS	NS	-	-	-	-	-	-	53.9	-	-
6	14772.0	NS	NS	-	-	-	-	-	-	53.9	-	-
7	17234.0	NS	NS	-	-	-	-	-	-	53.9	-	-
8	19696.0	NS	NS	-	-	-	-	-	-	53.9	-	-
9	22158.0	NS	NS	-	-	-	-	-	-	53.9	-	-
10	24620.0	35.8	35.8	40.8	35.4	8.9	0.0	40.6	40.6	53.9	13.3	13.3

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

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

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

*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

*NS:Non Signal

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Test report No. : 27LE0180-YK-A-R1
Page : 51 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (above 1GHz)
11a Tx, Ch: 165(5825MHz)

UL Japan, Inc.
Head Office EMC Lab. No.1 and No.3 Semi Anechoic Chamber

Company : NEC Corporation
Equipment : Factory Computer FC-NOTE series
Model : FC-N21S / BY5SS
Sample No. : S760538MA
Power : AC 120 V / 60 Hz
Mode : 11a Tx 12Mbps 5825MHz MainANT
Remarks : Hor X , Ver X-axis
PK DETECT (RBW: 1MHz, VBW: 1MHz)

REPORT NO : 27LE0180-YK
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3 / 1 / 0.5m
DATE : 08/02/2007 08/06/2007
TEMPERATURE : 26deg.C 25deg.C
HUMIDITY : 61% 62%
ENGINEER : Takumi Shimada Takumi Shimada

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5850.0	51.2	49.6	32.2	36.2	4.2	0.0	51.4	49.8	73.9	22.5	24.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
2	11650.0	49.2	52.6	39.9	36.4	5.9	1.0	50.1	53.5	73.9	23.8	20.4
3	17475.0	47.2	49.7	44.7	35.2	8.0	0.7	55.9	58.4	73.9	18.0	15.5
4	23300.0	48.0	47.8	38.7	31.2	9.0	0.0	55.0	54.8	73.9	18.9	19.1
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	29125.0	NS	NS	-	-	-	-	-	-	73.9	-	-
6	34950.0	42.1	42.1	40.7	28.0	16.6	0.0	55.9	55.9	73.9	18.0	18.0

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5850.0	35.1	35.6	32.2	36.2	4.2	0.0	35.3	35.8	53.9	18.6	18.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
2	11650.0	34.6	35.6	39.9	36.4	5.9	1.0	35.5	36.5	53.9	18.4	17.4
3	17475.0	33.3	35.8	44.7	35.2	8.0	0.7	42.0	44.5	53.9	11.9	9.4
4	23300.0	34.0	34.0	38.7	31.2	9.0	0.0	41.0	41.0	53.9	12.9	12.9
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	29125.0	NS	NS	-	-	-	-	-	-	53.9	-	-
6	34950.0	27.9	27.9	40.7	28.0	16.6	0.0	41.7	41.7	53.9	12.2	12.2

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

0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

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

*Hi-Pass Filter was not used for factor 0.0dB of the above table.

*NS: Non Signal

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Test report No. : 27LE0180-YK-A-R1
Page : 52 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission(above 1GHz)
11b Rx, Ch:Mid

Company : NEC Corporation
Equipment : Factory Computer FC-NOTE series
Model : FC-N21S / BY5SS
Sample No. : S760538MA
Power : AC 120 V / 60 Hz
Mode : 11b Rx 11Mbps 2437MHz MainANT
Remarks : Hor X , Ver X-axis

REPORT NO. : 27LE0180-YK
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3m
DATE : 08/02/2007
TEMPERATURE : 26deg.C
HUMIDITY : 61%
ENGINEER : Takumi Shimada

UL Japan, Inc.
Head Office EMC Lab. No.1 Semi Anechoic Chamber

PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2437.0	46.9	46.5	27.2	36.4	2.9	0.0	40.6	40.2	73.9	33.3	33.7

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2437.0	32.9	32.9	27.2	36.4	2.9	0.0	26.6	26.6	53.9	27.3	27.3

Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1.0) = 9.5\text{dB}$

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*The noise from the EUT was not seen.The data above is its base noise.

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

*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

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Test report No. : 27LE0180-YK-A-R1
Page : 53 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission(above 1GHz)
11g Rx, Ch:Mid

Company : NEC Corporation
Equipment : Factory Computer FC-NOTE series
Model : FC-N21S / BY5SS
Sample No. : S760538MA
Power : AC 120 V / 60 Hz
Mode : 11g Rx 54Mbps 2437MHz MainANT
Remarks : Hor X , Ver X-axis

REPORT NO. : 27LE0180-YK
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3/1m
DATE : 08/02/2007
TEMPERATURE : 26deg.C
HUMIDITY : 61%
ENGINEER : Takumi Shimada

UL Japan, Inc.
Head Office EMC Lab. No.3Semi Anechoic Chamber

PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2437.0	45.5	45.9	27.2	36.4	2.9	0.0	39.2	39.6	73.9	34.7	34.3

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2437.0	32.9	32.9	27.2	36.4	2.9	0.0	26.6	26.6	53.9	27.3	27.3

Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1.0) = 9.5\text{dB}$

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*The noise from the EUT was not seen.The data above is its base noise.

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

*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

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Test report No. : 27LE0180-YK-A-R1
Page : 54 of 74
Issued date : September 12, 2007
Revised date : October 26, 2007
FCC ID : BSFFC-N21S

Radiated Spurious Emission (above 1GHz) 11a Rx, Ch: 165(5825MHz)

UL Japan, Inc.
Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : NEC Corporation
Equipment : Factory Computer FC-NOTE series
Model : FC-N21S / BY5SS
Sample No. : S760538MA
Power : AC 120 V / 60 Hz
Mode : 11a Rx 12Mbps 5825MHz MainANT
Remarks : Hor X , Ver X-axis

REPORT NO : 27LE0180-YK
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3 / 0.5m
DATE : 08/02/2007 08/06/2007
TEMPERATURE : 26deg.C 25deg.C
HUMIDITY : 61% 62%
ENGINEER : Takumi Shimada Takumi Shimada

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dBuV/m]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5825.0	45.9	44.9	32.2	36.2	4.2	0.0	46.1	45.1	73.9	27.8	28.8
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
2	11650.0	44.8	45.1	39.5	32.4	6.5	0.0	42.9	43.2	73.9	31.0	30.7
3	17475.0	47.0	45.9	44.3	31.0	7.5	0.0	52.3	51.2	73.9	21.6	22.7

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5825.0	31.7	31.7	32.2	36.2	4.2	0.0	31.9	31.9	53.9	22.0	22.0
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
2	11650.0	30.4	30.3	39.5	32.4	6.5	0.0	28.5	28.4	53.9	25.4	25.5
3	17475.0	31.6	31.6	44.3	31.0	7.5	0.0	36.9	36.9	53.9	17.0	17.0

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

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

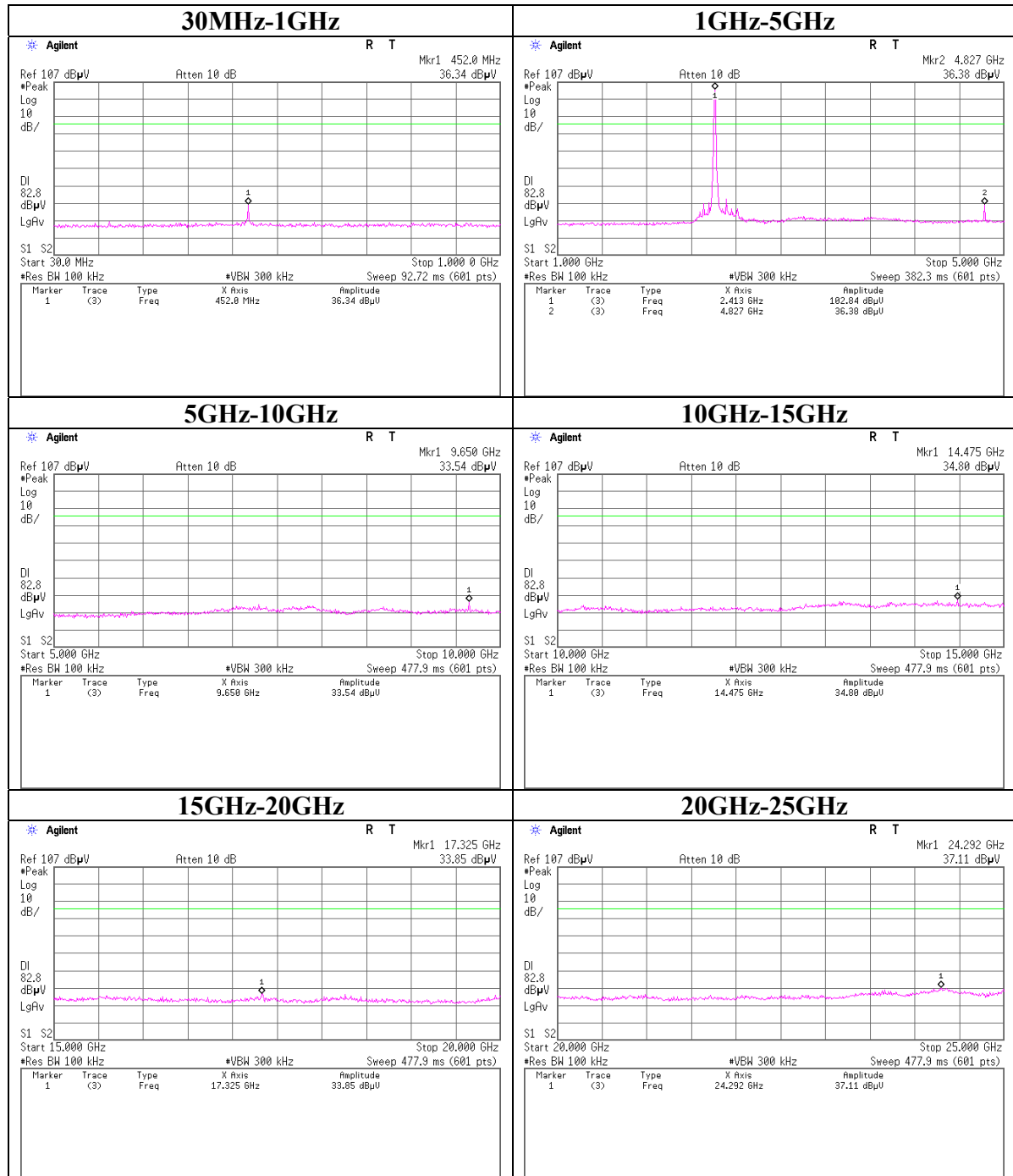
*The noise from the EUT was not seen. The data above is its base noise.

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

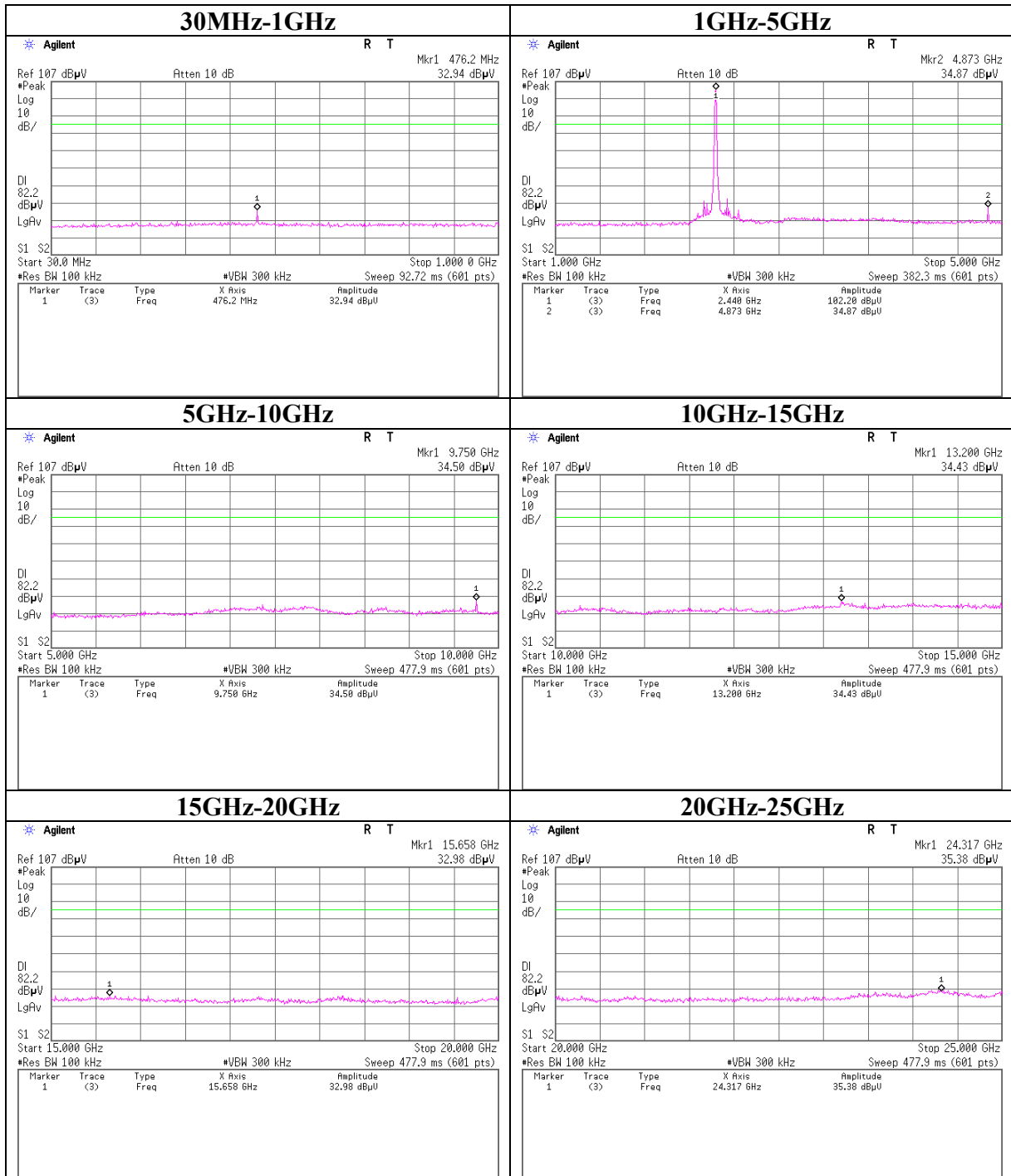
*Hi-Pass Filter was not used for factor 0.0dB of the above table.

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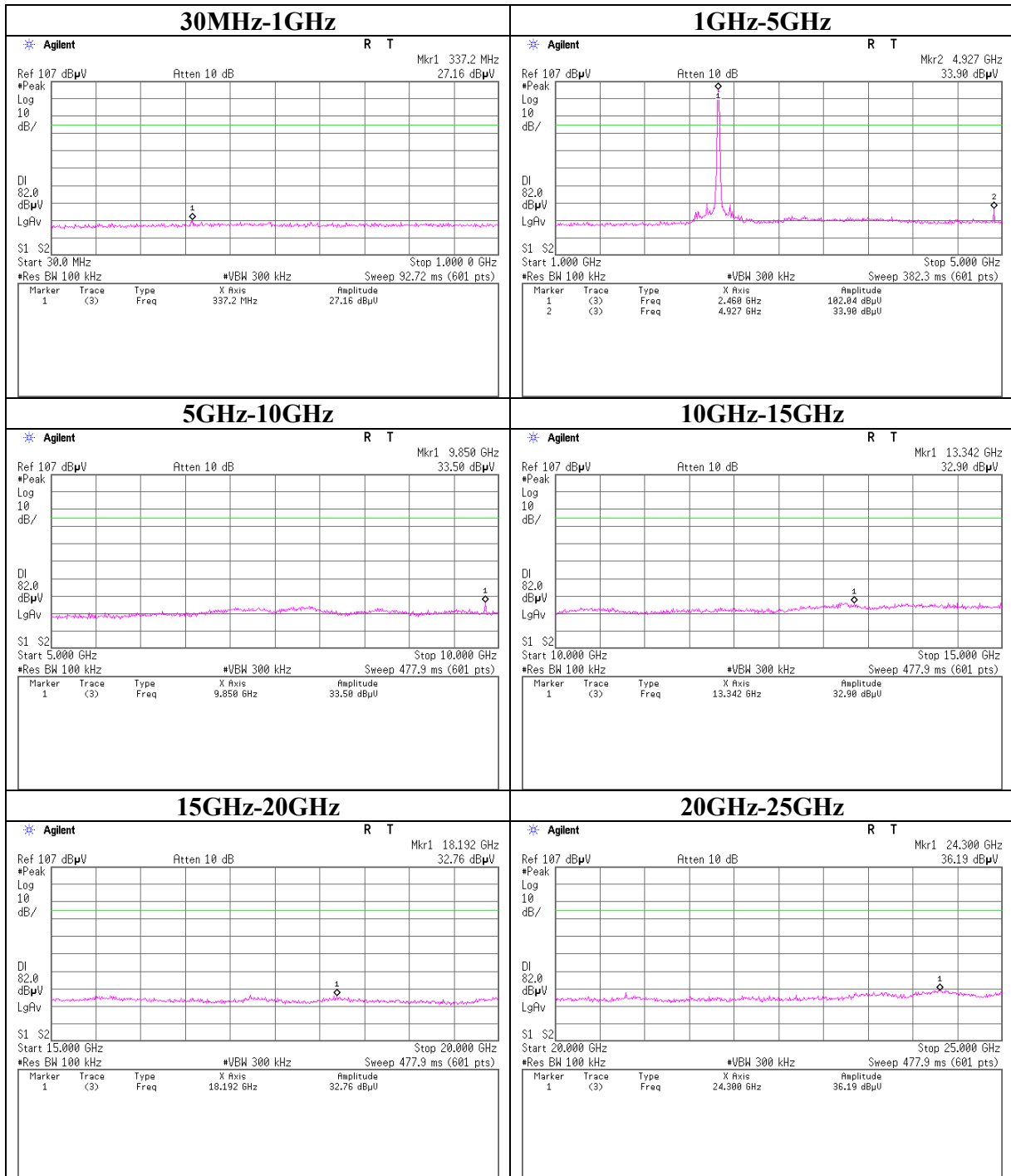
Conducted Spurious Emission
11b 11Mbps Tx, Ch: Low



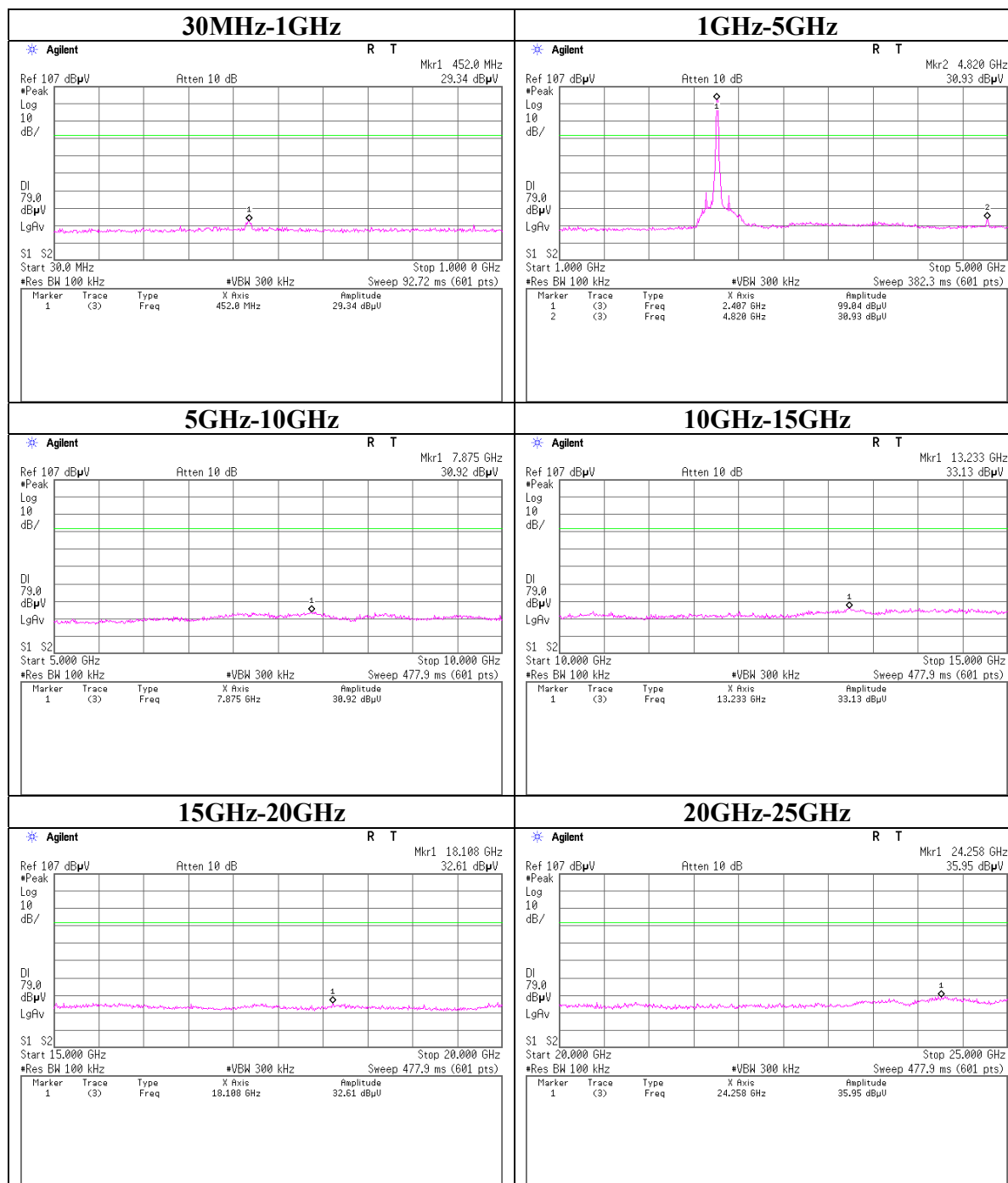
Conducted Spurious Emission
11b 11Mbps Tx, Ch: Mid



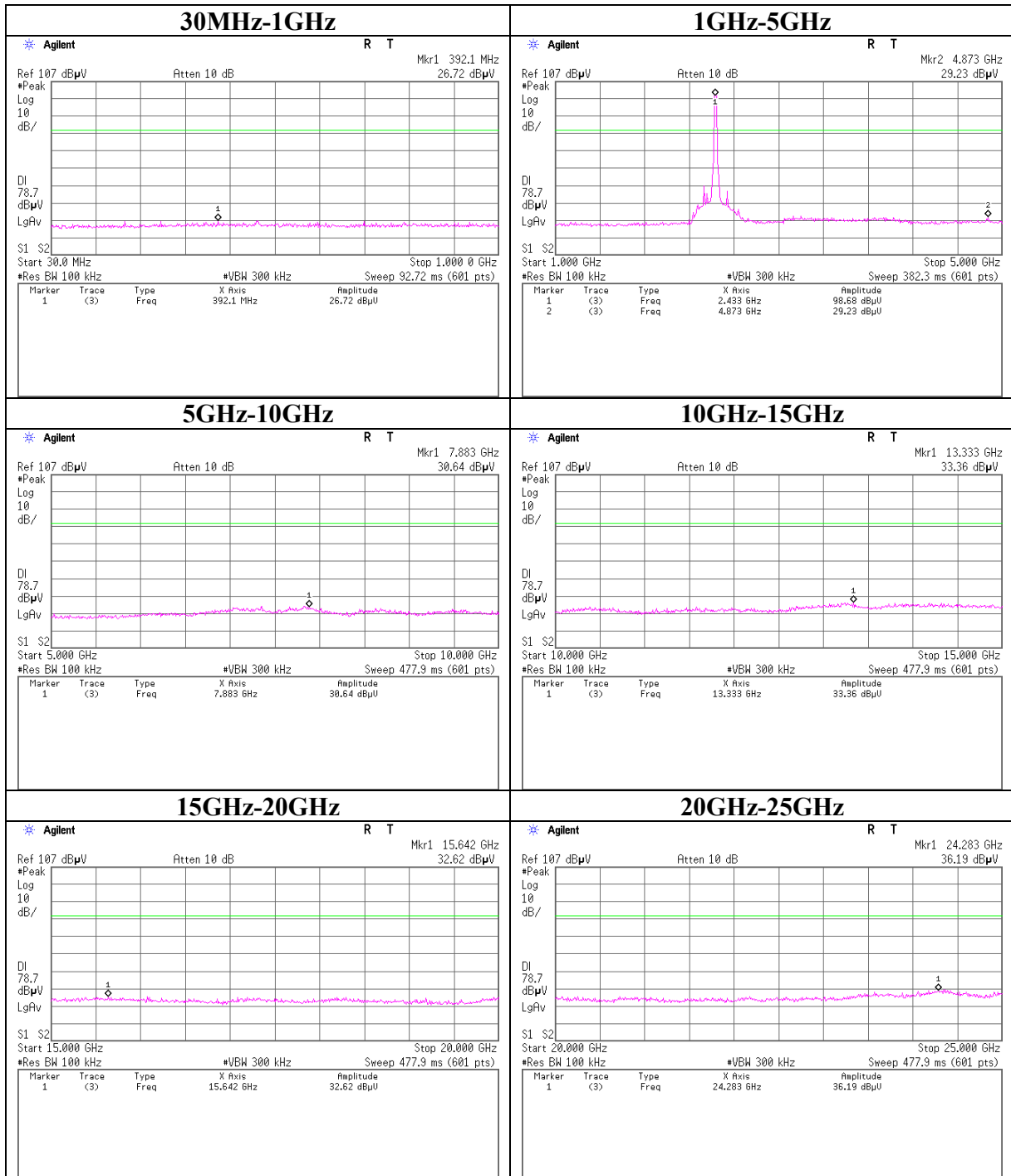
Conducted Spurious Emission
11b 11Mbps Tx, Ch: High



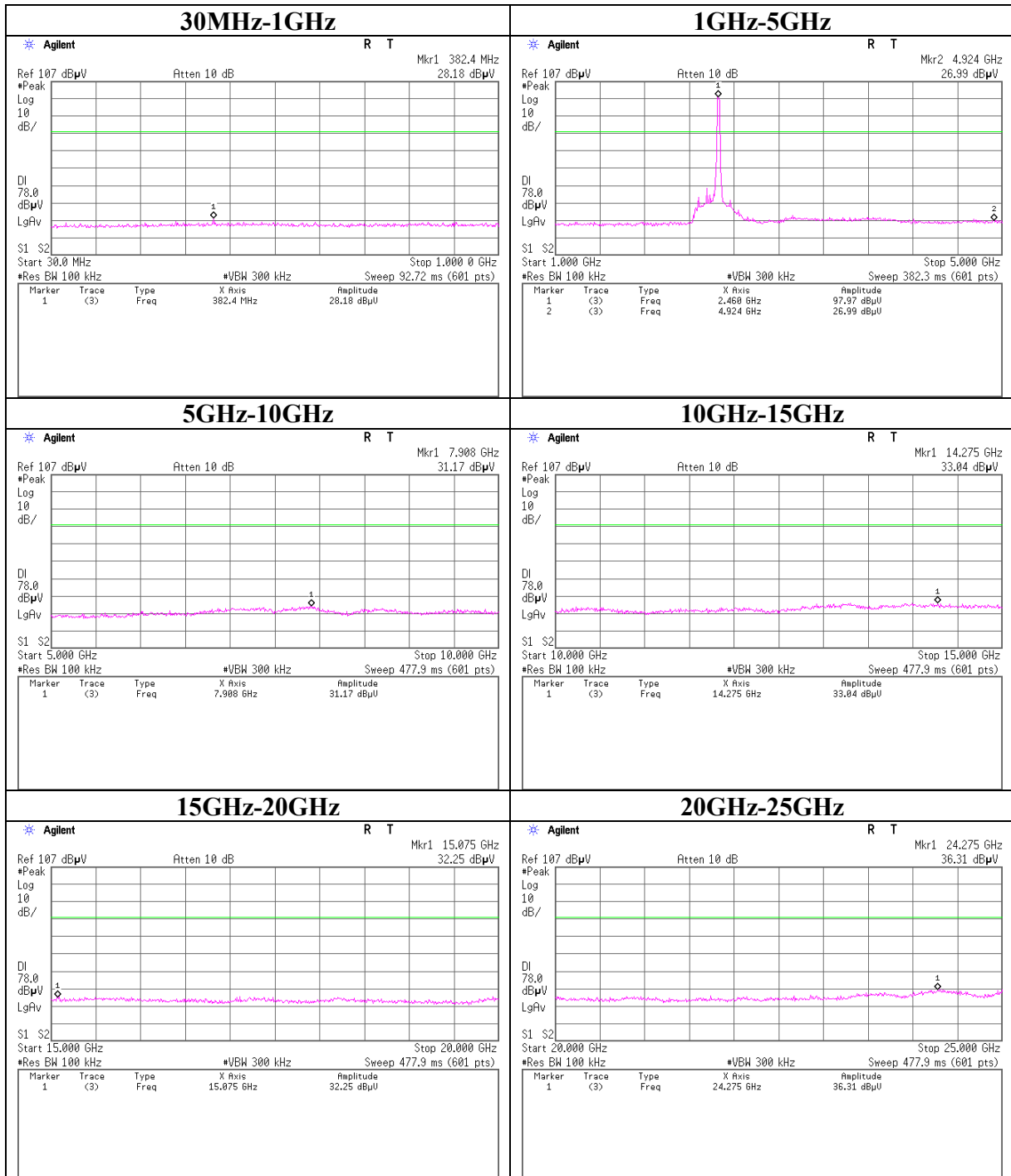
Conducted Spurious Emission
11g 54Mbps Tx, Ch: Low



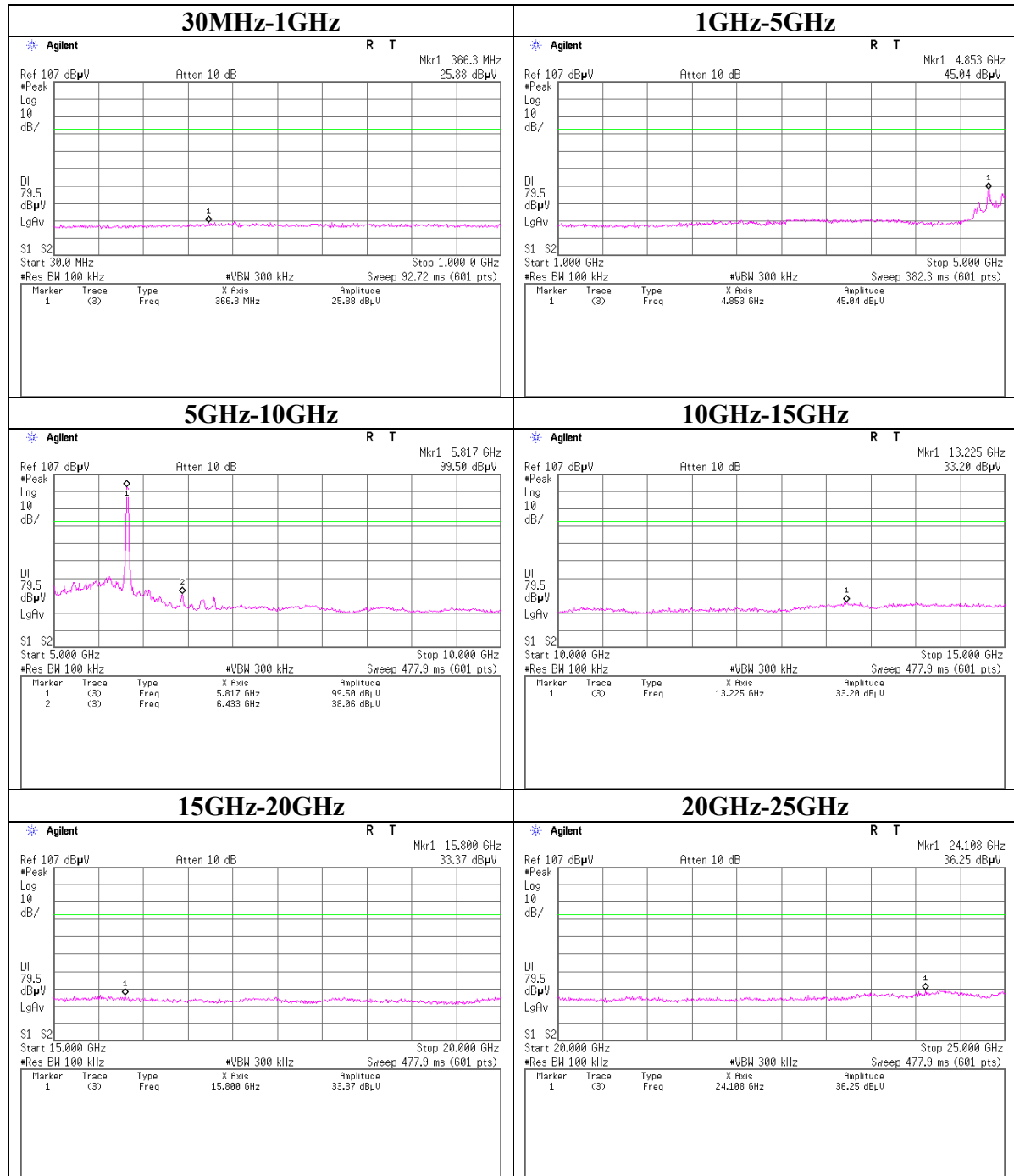
Conducted Spurious Emission
11g 54Mbps Tx, Ch: Mid



Conducted Spurious Emission
11g 54Mbps Tx, Ch: High

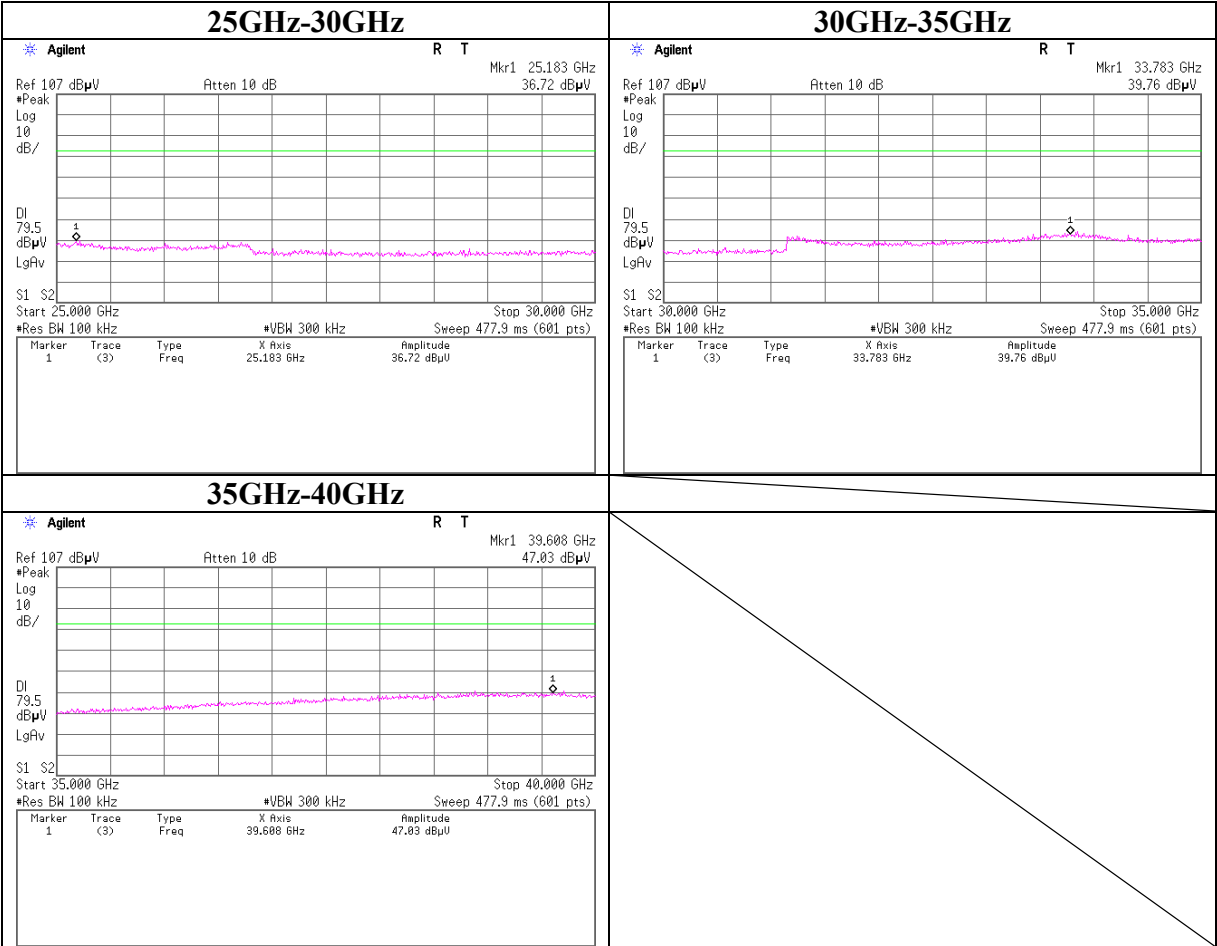


Conducted Spurious Emission
11a 12Mbps Tx, 5825MHz

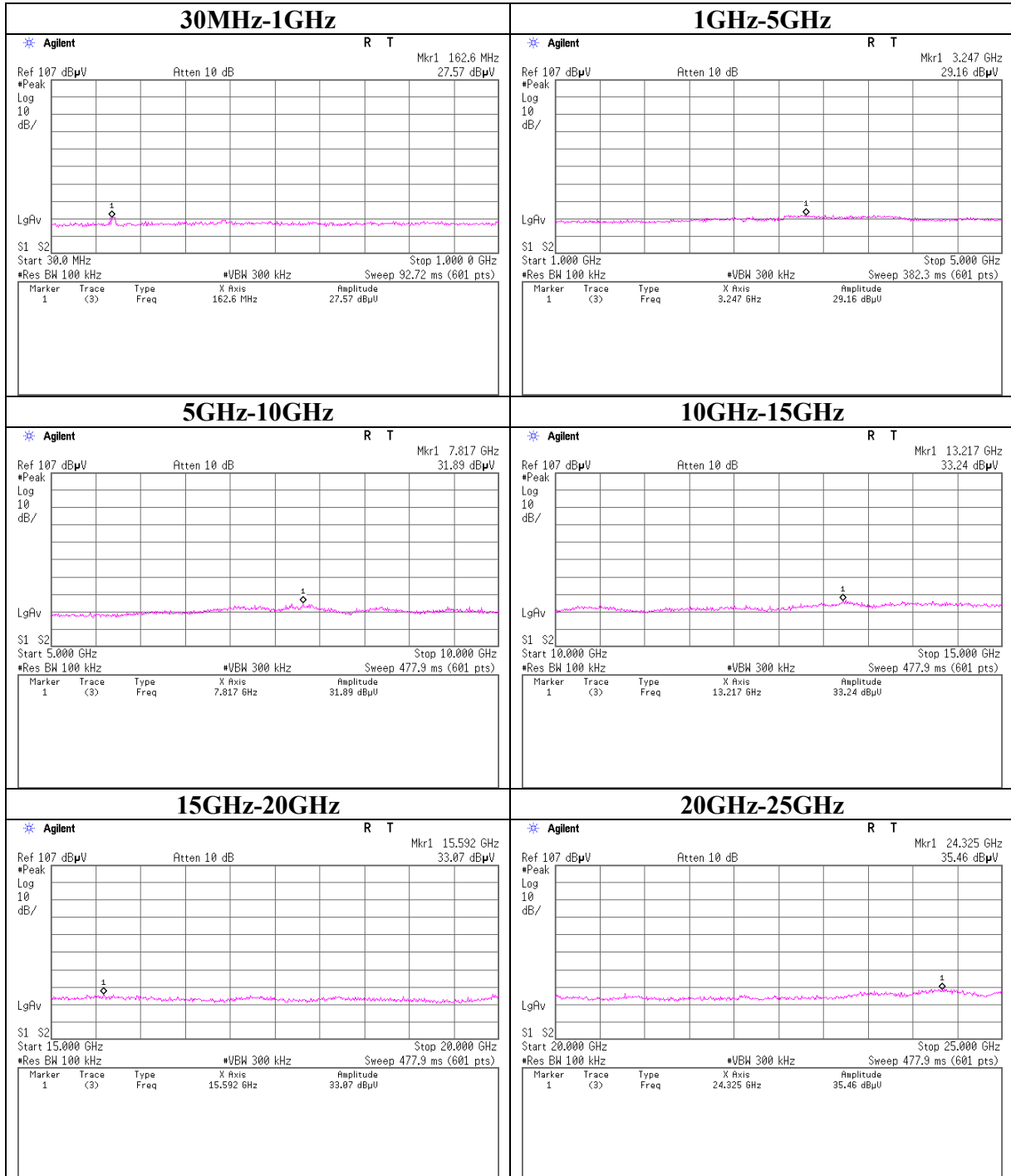


Conducted Spurious Emission

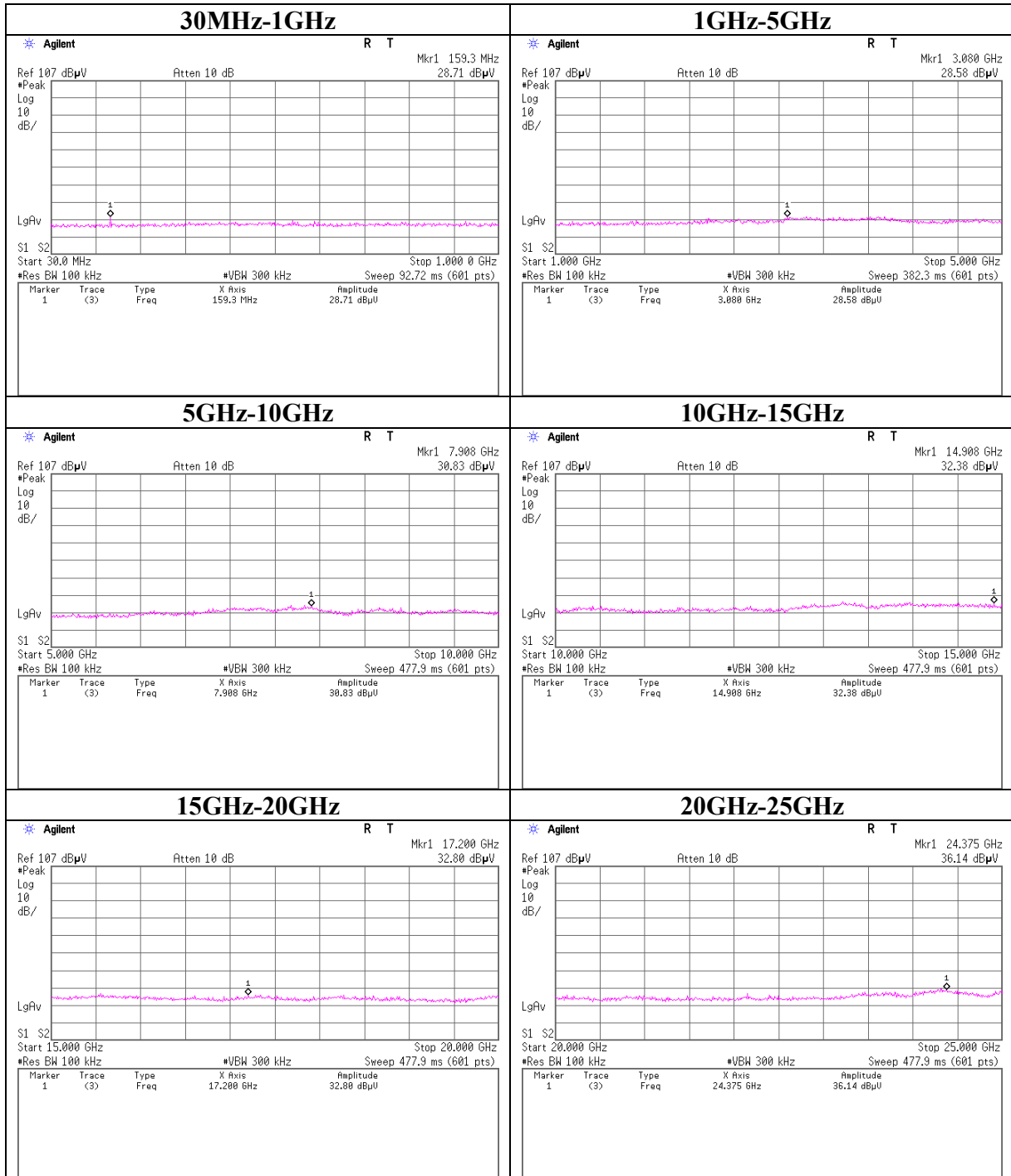
11a 12Mbps Tx, 5825MHz



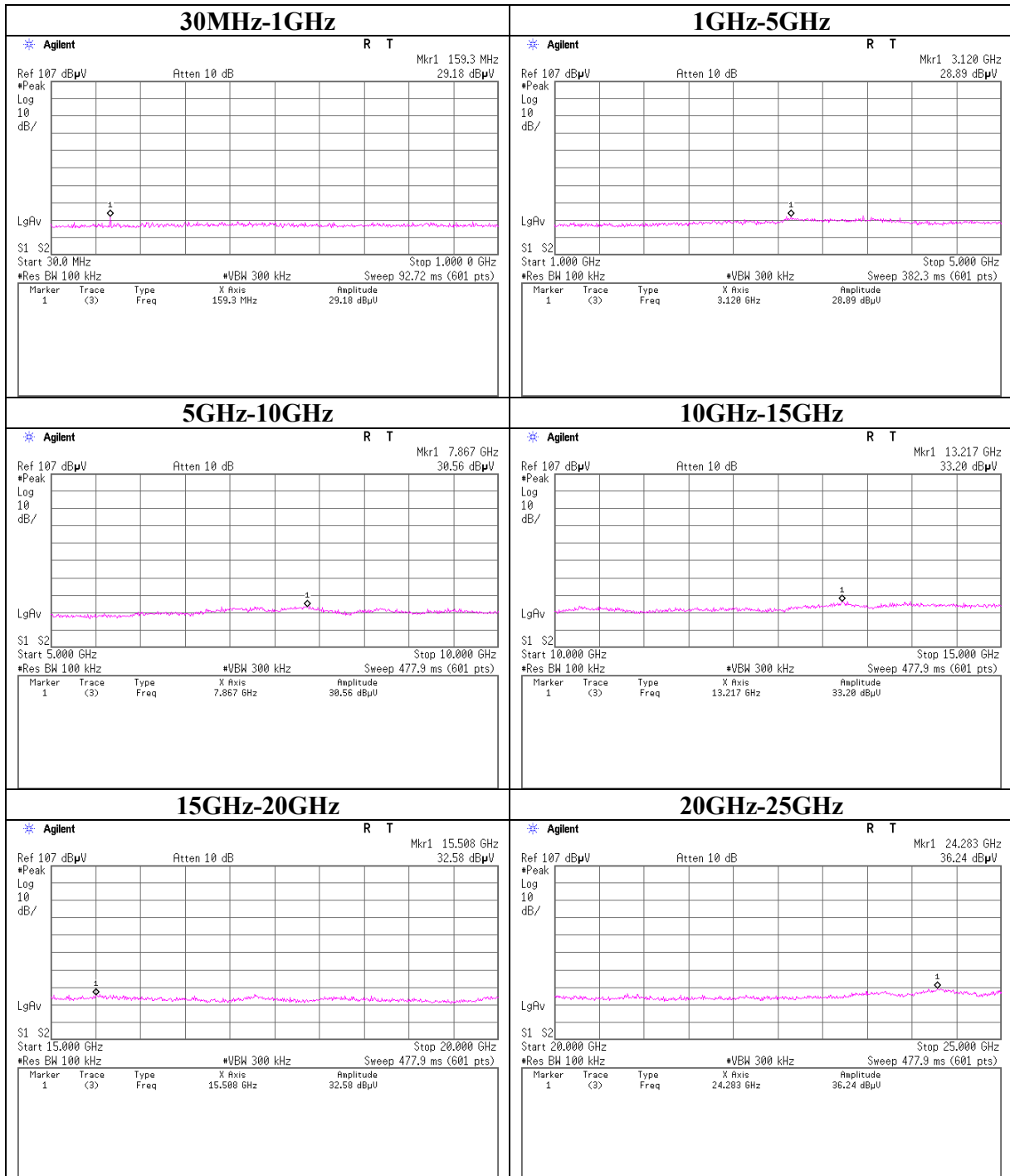
Conducted Spurious Emission
11b 11Mbps Rx, Ch: Mid



Conducted Spurious Emission
11g 54Mbps Rx, Ch: Mid

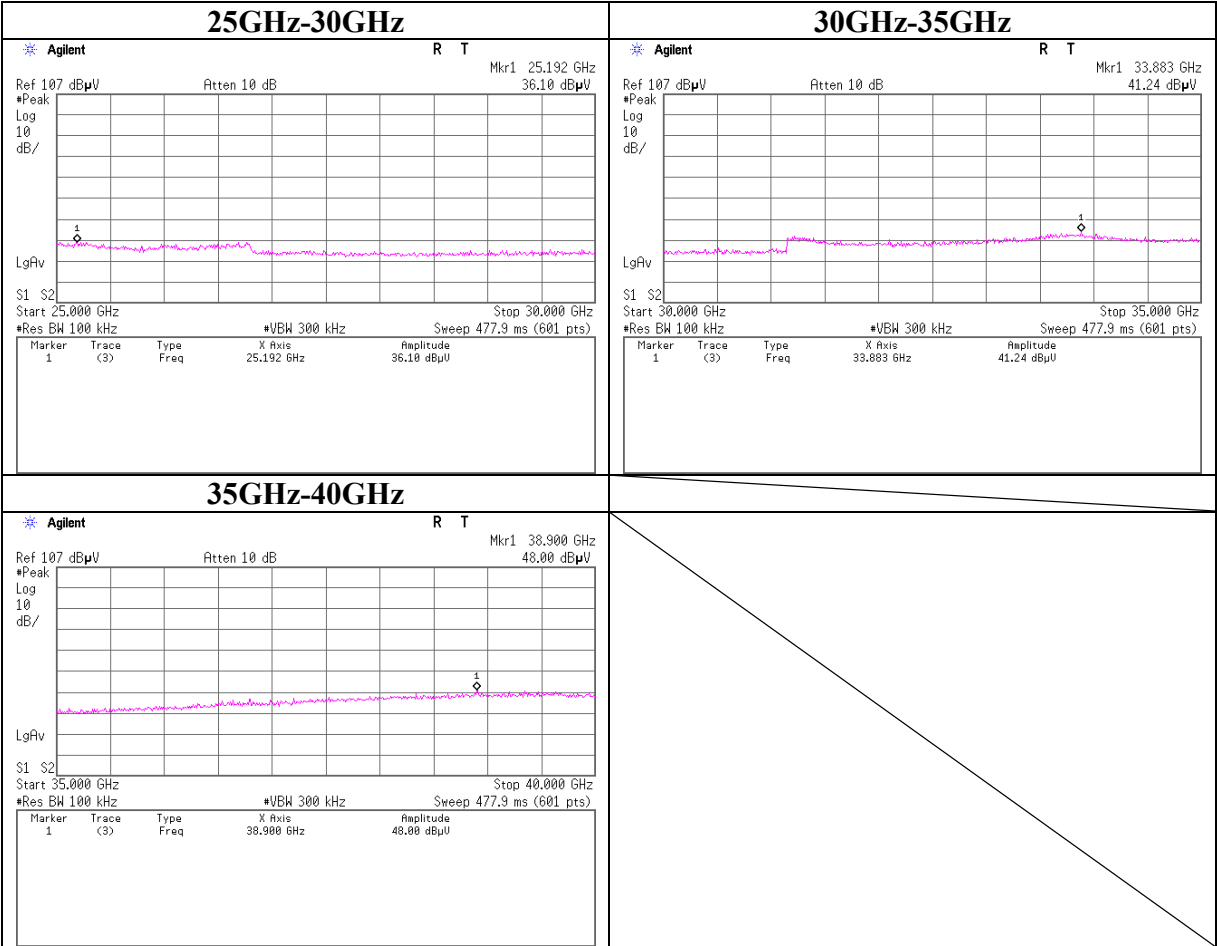


Conducted Spurious Emission
11a 12Mbps Rx, 5825MHz

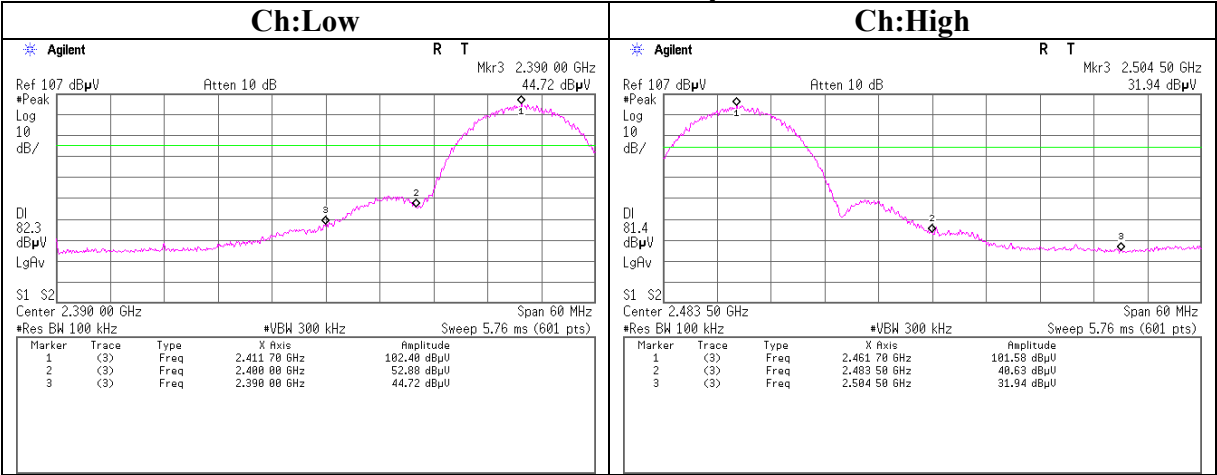


Conducted Spurious Emission

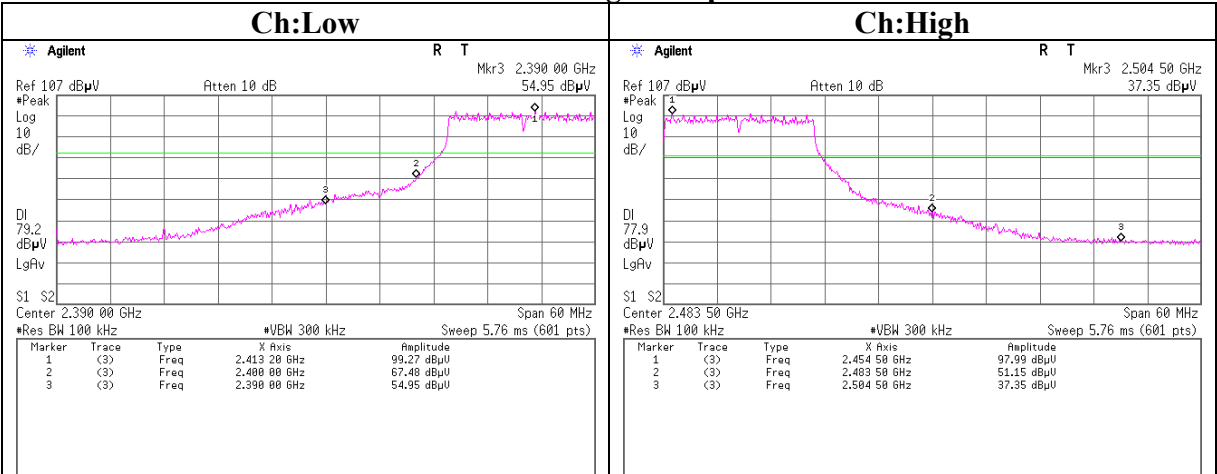
11a 12Mbps Rx, 5825MHz



Conducted emission Band Edge compliance
11b 11Mbps



11g 54Mbps



Power Density

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Head Office EMC Lab. No.6 Shielded room

Company : NEC Corporation
Equipment : Factory Computer FC-NOTE series
Model : FC-N21S/BY5SS
S/N : S760538MA
Power : AC 120V / 60Hz
Mode : 11b, Transmitting (Tx), 11Mbps /
11g, Transmitting (Tx), 54Mbps /
11a, Transmitting (Tx), 12Mbps /
Main ANT

Regulation : FCC Part15 Subpart C 15.247(e) / RSS-210 A8.2(b)
Test Distance : -
Date : 08/07/2007
Temperature : 25 deg.C.
Humidity : 62%
Engineer : Takashi Nakazawa

[IEEE802.11b] ANT Main, 11Mbps (Worst)

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2411.3	-19.64	1.88	10.04	-7.72	8.00	15.72
Mid	2436.3	-19.28	1.90	10.04	-7.34	8.00	15.34
High	2461.3	-20.11	1.91	10.04	-8.16	8.00	16.16

[IEEE802.11g] ANT Main, 54Mbps (Worst)

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2411.7	-23.26	1.88	10.04	-11.34	8.00	19.34
Mid	2436.7	-23.45	1.90	10.04	-11.51	8.00	19.51
High	2461.7	-24.47	1.91	10.04	-12.52	8.00	20.52

[IEEE802.11a] ANT Main, 12Mbps (Worst)

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
165	5825.5	-22.05	2.93	10.24	-8.88	8.00	16.88

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

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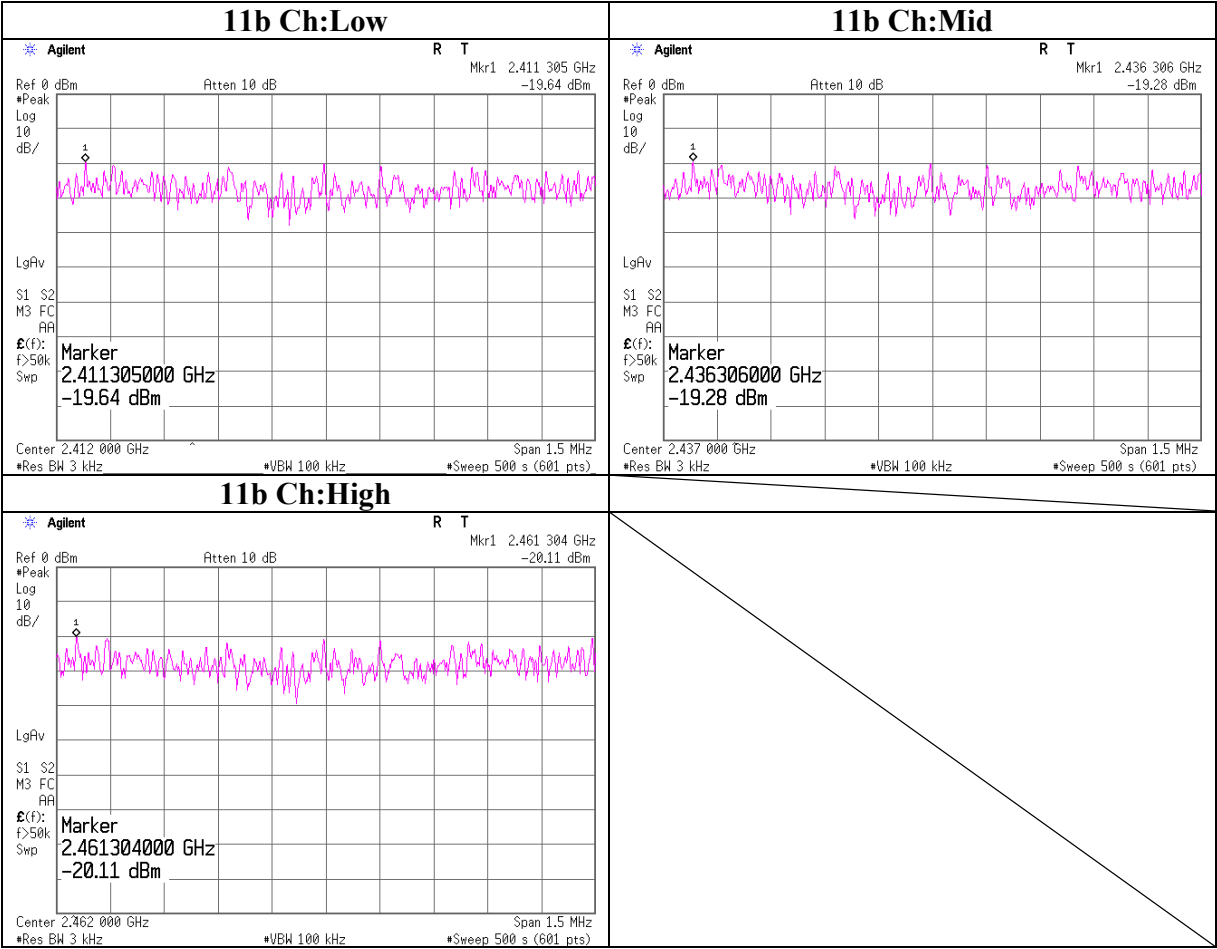
Head Office EMC Lab.

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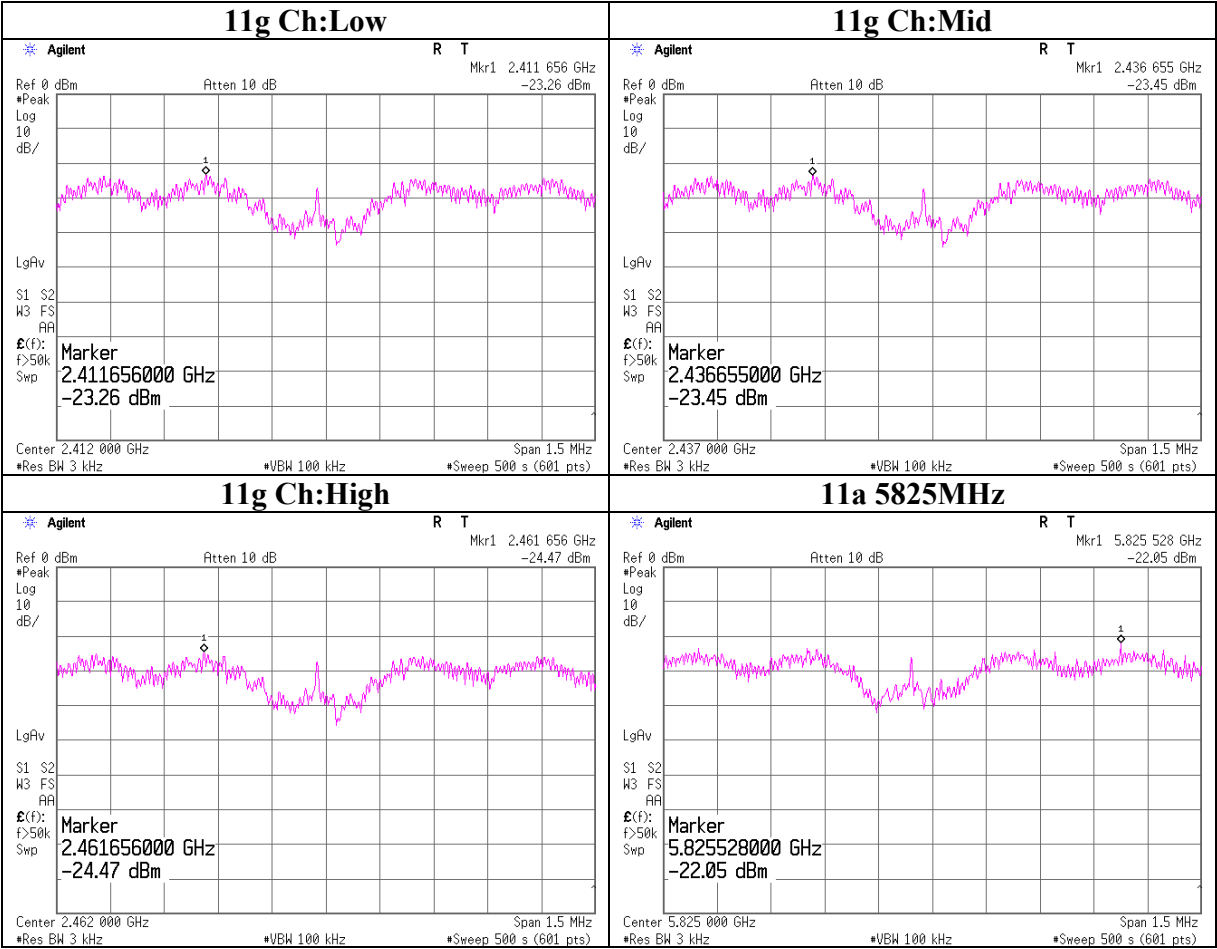
Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

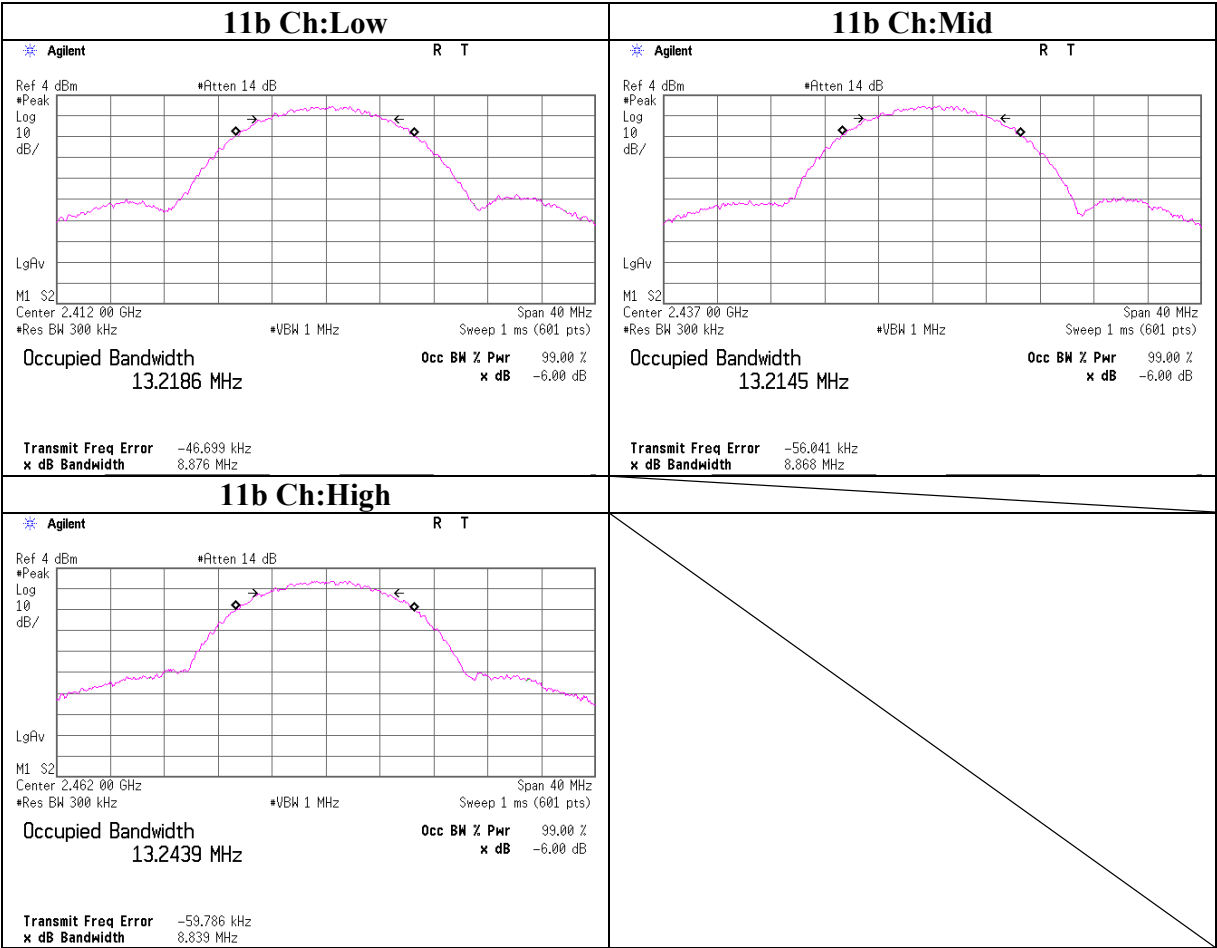
Power Density



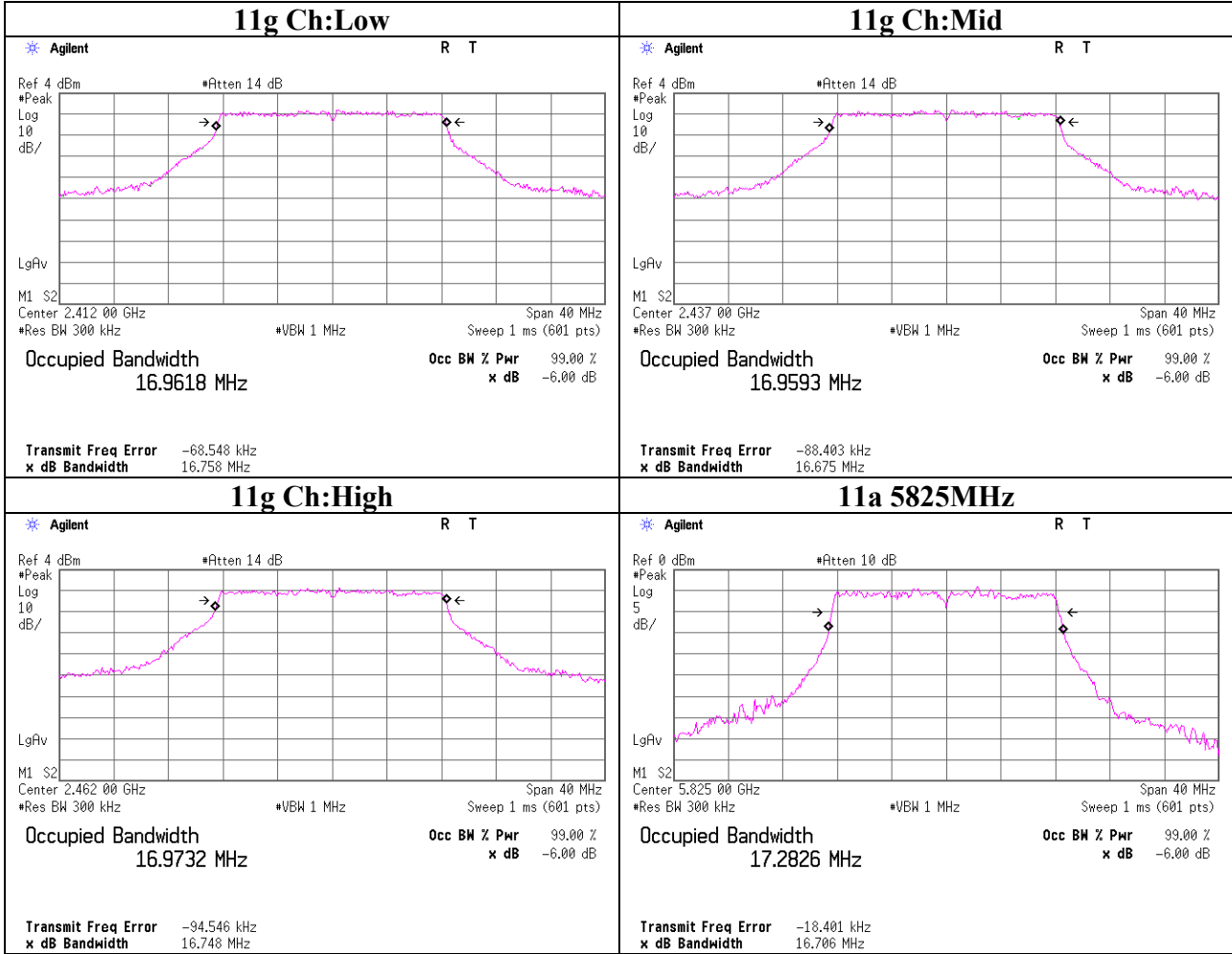
Power Density



99%Occupied Bandwidth



99%Occupied Bandwidth



APPENDIX 3:Test instruments

EMI test equipment (1/2)

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	AT	2007/03/07 * 12
MCC-35	Microwave Cable	Hirose Electric	U.FL-2LP-066-A- (200)	AT	2006/11/13 * 12
MCC-65	Microwave Cable 1G- 40GHz	Schner	SUCOFLEX102	AT	2007/04/03 * 12
MPM-09	Power Meter	Anritsu	ML2495A	AT	2006/09/20 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2006/09/20 * 12
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE /AT	2006/10/14 * 12
MOS-01	Digital Humidity Indicator	N.T	NT-1800	RE /AT	2006/11/27 * 12
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE	2006/11/01 * 12
MHA-05	Horn Antenna 1- 18GHz	Schwarzbeck	BBHA9120D	RE	2007/01/30 * 12
MCC-15	Microwave Cable 1G- 26.5GHz 1m	Suhner	SUCOFLEX 104	RE	2007/02/22 * 12
MCC-18	Microwave Cable 1G- 26.5GHz 5m	Suhner	SUCOFLEX 104	RE	2007/02/22 * 12
MPA-01	Pre Amplifier	Agilent	8449B	RE	2007/02/15 * 12
MHF-05	High Pass Filter 3.5- 18GHz	Tokimec	TF323DCA	RE	2007/01/16 * 12
MJM-01	Measure	KDS	ES19-55	RE	-
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE/CE	-
MHA-01	Horn Antenna 18- 26.5G	EMCO	3160-09	RE	2007/01/30 * 12
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE/CE	2007/03/05 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	RE	2007/06/20 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	RE	2007/03/02 * 12
MCC-56	Microwave Cable 1G- 26.5GHz	Suhner	SUCOFLEX104	RE	2007/03/29 * 12
MHA-16	Horn Antenna 15- 40GHz	Schwarzbeck	BBHA9170	RE	2007/04/06 * 12
MOS-12	Thermo-Hygrometer	Custom	CTH-180	RE/CE	2006/01/19 * 24
MJM-06	Measure	PROMART	SEN1955	RE/CE	-
MHA-20	Horn Antenna 1- 18GHz	Schwarzbeck	BBHA9120D	RE	2007/04/14 * 12
MPA-17	Pre Amplifier	UNITEK ELECTROBICS INC.	40GHzAMP	RE	2006/12/15 * 12
MCC-53	Microwave Cable 1G- 40GHz	Suhner	SUCOFLEX101	RE	2007/03/08 * 12

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EMI test equipment (2/2)

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2007/01/19 * 12
MLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2007/01/19 * 12
MAT-30	Attenuator(6dB)	TME	UFA-01	RE	2007/03/05 * 12
MCC-51	Coaxial cable	UL Japan	-	RE/CE	2007/07/26 * 12
MPA-13	Pre Amplifier	SONOMA INSTRUMENT	310	RE	2007/03/16 * 12
MSA-09	Spectrum Analyzer	Advantest	R3273	RE/CE	2006/12/08 * 12
MTR-02	Test Receiver	Rohde & Schwarz	ESCS30	RE/CE	2007/02/03 * 12
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/10/07 * 12
MAT-06	Attenuator(6dB)	Weinschel Corp	2	RE	2006/12/27 * 12
MCC-01	Coaxial Cable 0.1- 3000MHz	Suhner/storm/Agilent /TSJ	-	RE	2007/02/27 * 12
MPA-04	Pre Amplifier	Agilent	8447D	RE	2007/07/11 * 12
MMM-03	Digital Tester	Fluke	FLUKE 26-3	RE	2006/08/30 * 12
MLA-09	Logperiodic Antenna	Schwarzbeck	USLP9143B	RE	2007/01/19 * 12
MLS-02	LISN(AMN)	Schwarzbeck	NSLK8127	CE(AE)	2007/06/29 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE(EUT)	2007/02/22 * 12
MTA-06	Terminator	MCL	BTRM-50	CE	2007/02/01 * 12

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