

APPENDIX 2: Data of EMI test

Conducted Emission
Tx 11b, Ch: Low

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/07/01

Company

Kind of EUT

Model No.

Serial No.

: NEC INFRONTIA CORPORATION

: Mobile Terminal EX

: S1613-01A

: #10

Report No.

Power

Temp./Humi.

Operator

: 27KE0198-H0

: AC 120V / 60Hz

: 26deg. C / 58%

: Motoya Imura

Mode / Remarks : WLAN Tx 11b_11Mbps 2412MHz

LIMIT : FCC15.207 QP
FCC15.207 AV

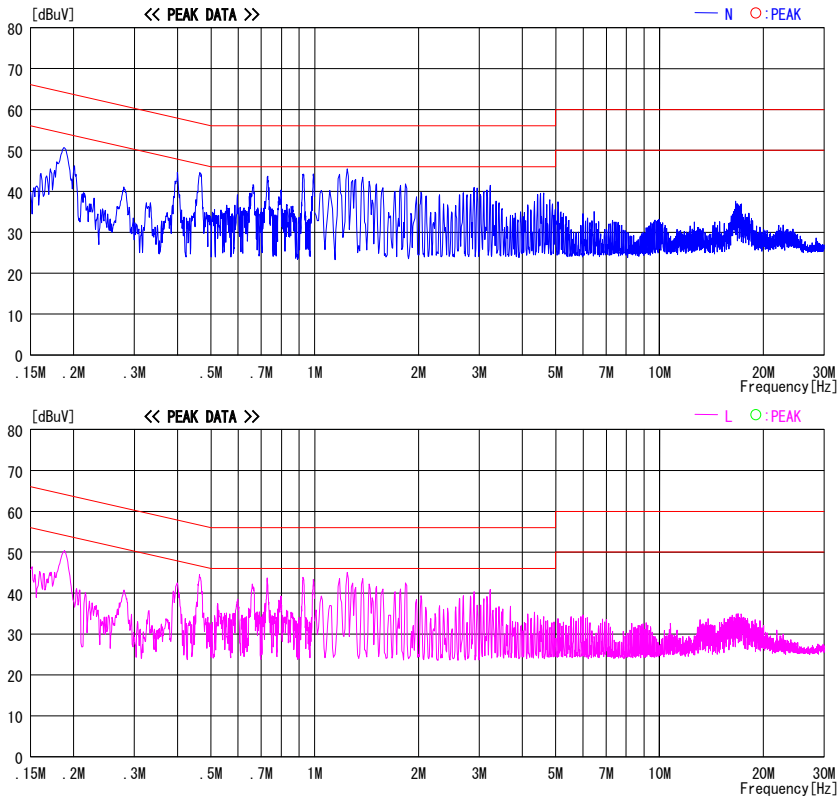


CHART:WITH FACTOR, Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
Tx 11b, Ch: Mid

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/07/01

Company : NEC INFRENTIA CORPORATION
Kind of EUT : Mobile Terminal EX
Model No. : S1613-01A
Serial No. : #10

Report No. : 27KE0198-HO
Power : AC 120V / 60Hz
Temp./Humi. : 26deg. C / 58%
Operator : Motoya Imura

Mode / Remarks : WLAN Tx 11b_11Mbps 2437MHz

LIMIT : FCC15.207 QP
FCC15.207 AV

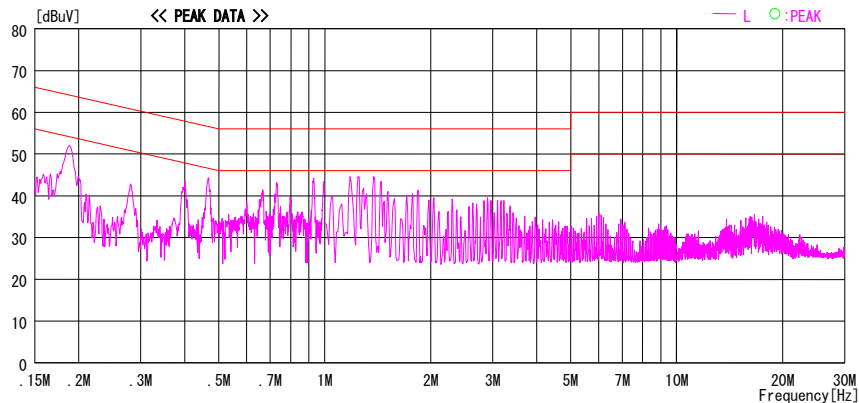
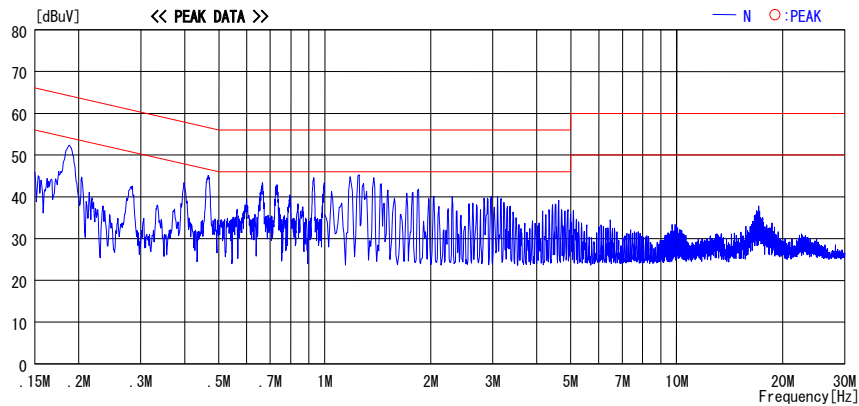


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

Tx 11b, Ch: High

DATA OF CONDUCTED EMISSION TEST

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

Date : 2007/07/01

Company : NEC INFRENTIA CORPORATION

Kind of EUT : Mobile Terminal EX

Model No. : S1613-01A

Serial No. : #10

Report No. : 27KE0198-HO

Power : AC 120V / 60Hz

Temp./Humi. : 26deg. C / 58%

Operator : Motoya Imura

Mode / Remarks : WLAN Tx 11b_11Mbps 2462MHz

LIMIT : FCC15. 207 QP

FCC15. 207 AV

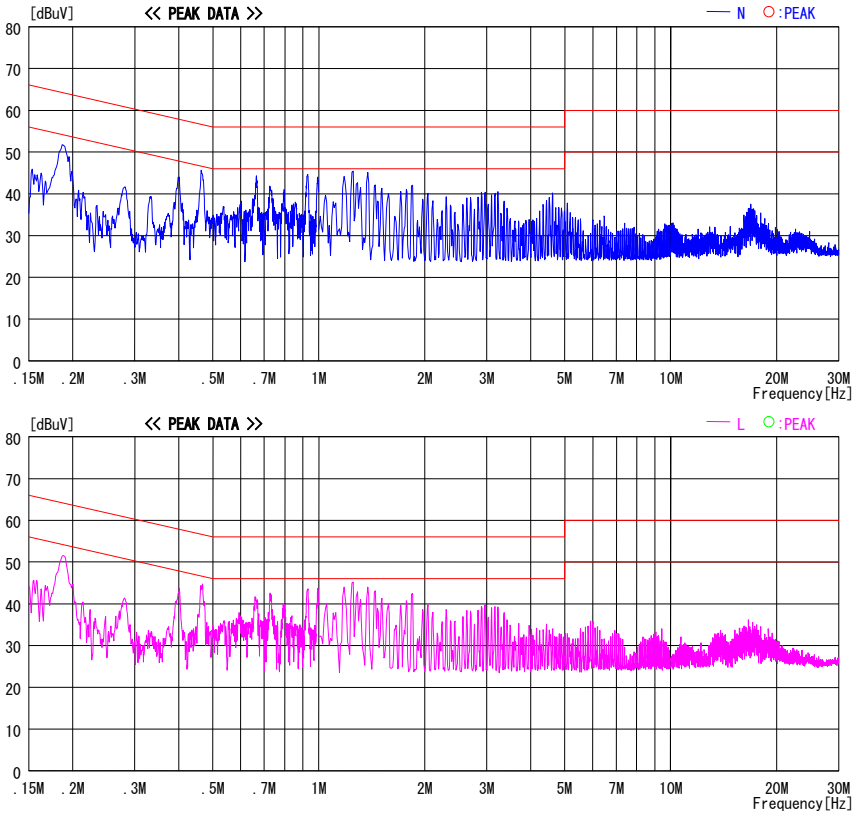


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C. F (LISN LOSS+CABLE LOSS)

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

Conducted Emission

Tx 11b, Ch: High

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

DATA OF CONDUCTED EMISSION TEST

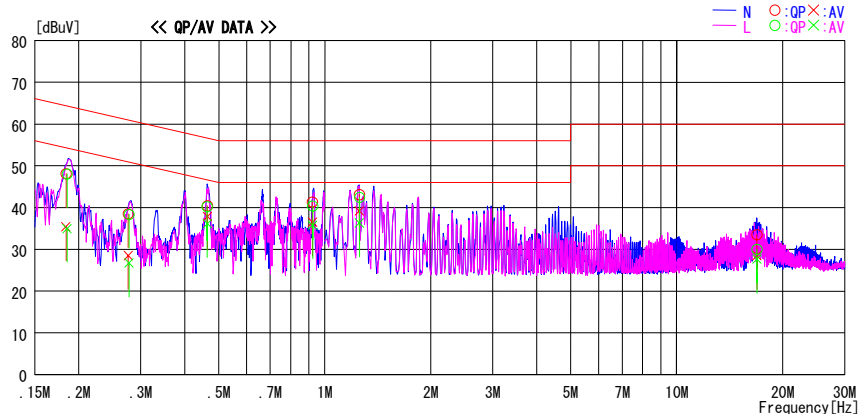
UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/07/01

Company : NEC INFRONTIA CORPORATION
Kind of EUT : Mobile Terminal EX
Model No. : S1613-01A
Serial No. : #10

Report No. : 27KE0198-HO
Power : AC 120V / 60Hz
Temp./Humi. : 26deg.C / 58%
Operator : Motoya Imura

Mode / Remarks : WLAN Tx 11b_11Mbps 2462MHz

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]	
0.18395	47.8	35.1	0.3	48.1	35.4	64.3	54.3	16.2	18.9	N
0.27645	38.2	28.2	0.3	38.5	28.5	60.9	50.9	22.4	22.4	N
0.46365	40.1	37.6	0.3	40.4	37.9	56.6	46.6	16.2	8.7	N
0.92275	41.0	36.2	0.3	41.3	36.5	56.0	46.0	14.7	9.5	N
1.25390	42.7	38.8	0.4	43.1	39.2	56.0	46.0	12.9	6.8	N
16.90011	31.8	26.8	1.7	33.5	28.5	60.0	50.0	26.5	21.5	N
0.18530	47.7	34.7	0.3	48.0	35.0	64.2	54.2	16.2	19.2	L
0.27790	38.0	26.4	0.3	38.3	26.7	60.9	50.9	22.6	24.2	L
0.46350	39.9	35.8	0.3	40.2	36.1	56.6	46.6	16.4	10.5	L
0.92300	40.0	35.5	0.3	40.3	35.8	56.0	46.0	15.7	10.2	L
1.25450	42.0	35.9	0.4	42.4	36.3	56.0	46.0	13.6	9.7	L
16.90016	28.3	25.9	1.7	30.0	27.6	60.0	50.0	30.0	22.4	L

CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(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

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Facsimile : +81 596 24 8124

Conducted Emission
Tx 11g, Ch: Low

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/07/01

Company : NEC INFRENTIA CORPORATION
Kind of EUT : Mobile Terminal EX
Model No. : S1613-01A
Serial No. : #10

Report No. : 27KE0198-HO
Power : AC 120V / 60Hz
Temp./Humi. : 26deg. C / 58%
Operator : Motoya Imura

Mode / Remarks : WLAN Tx 11g_54Mbps 2412MHz

LIMIT : FCC15.207 QP
FCC15.207 AV

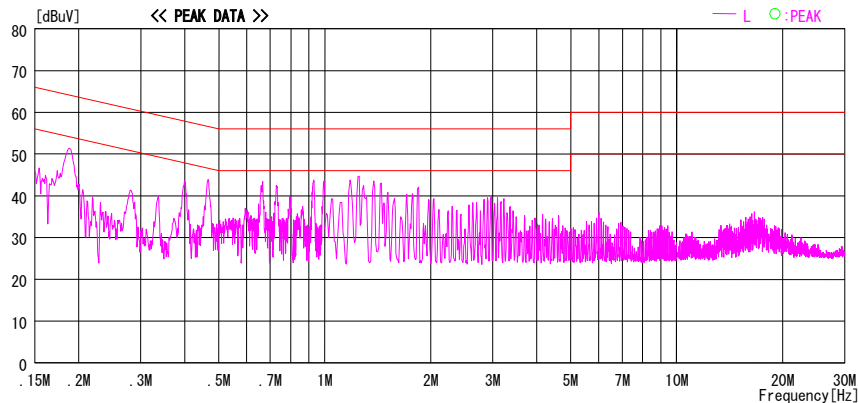
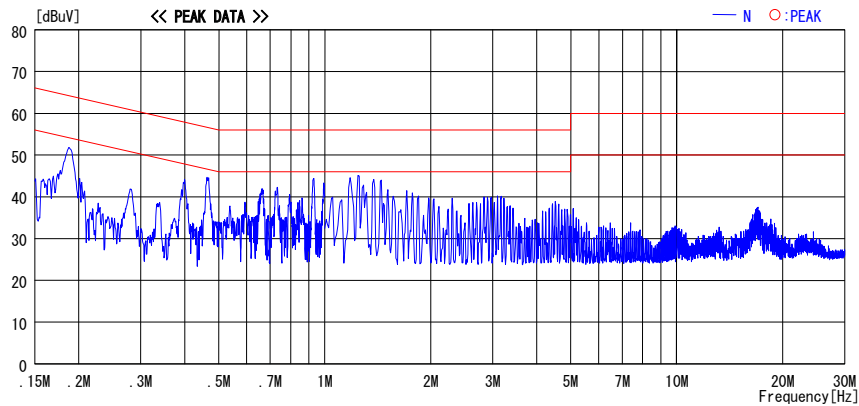


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCURATION: RESULT=READING+C. F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
Tx 11g, Ch: Mid

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/07/01

Company : NEC INFRENTIA CORPORATION
Kind of EUT : Mobile Terminal EX
Model No. : S1613-01A
Serial No. : #10

Report No. : 27KE0198-HO
Power : AC 120V / 60Hz
Temp./Humi. : 26deg. C / 58%
Operator : Motoya Imura

Mode / Remarks : WLAN Tx 11g_54Mbps 2437MHz

LIMIT : FCC15.207 QP
FCC15.207 AV

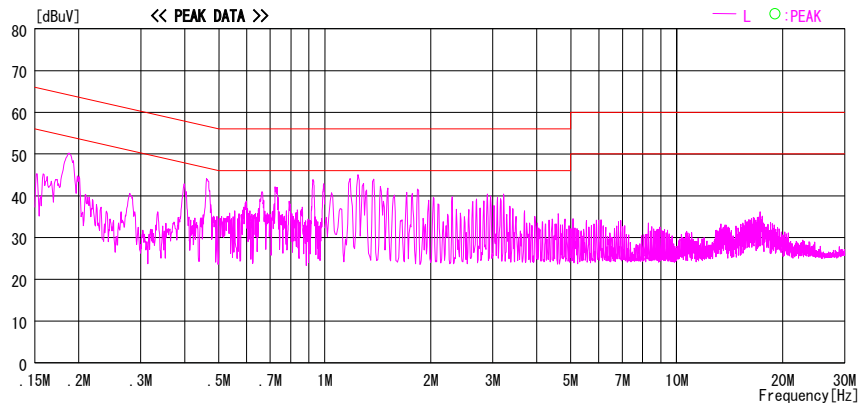
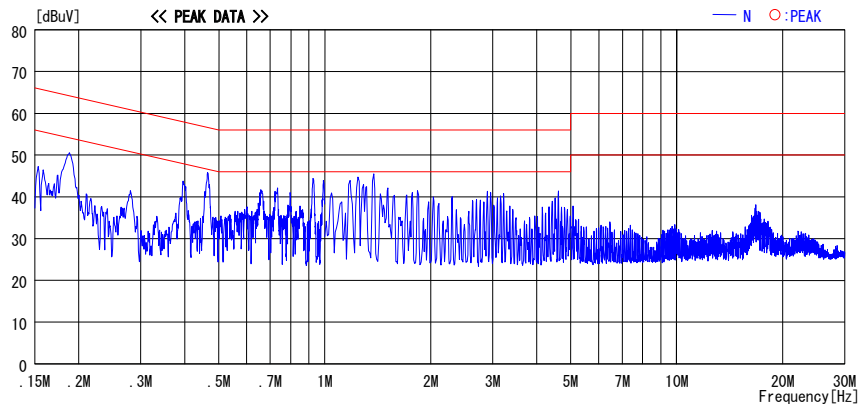


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCURATION: RESULT=READING+C. F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

Tx 11g, Ch: High

DATA OF CONDUCTED EMISSION TEST

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

Date : 2007/07/01

Company : NEC INFRONTIA CORPORATION

Kind of EUT : Mobile Terminal EX

Model No. : S1613-01A

Serial No. : #10

Report No. : 27KE0198-HO

Power : AC 120V / 60Hz

Temp./Humi. : 26deg.C / 58%

Operator : Motoya Imura

Mode / Remarks : WLAN Tx 11g_54Mbps 2462MHz

LIMIT : FCC15.207 QP

FCC15.207 AV

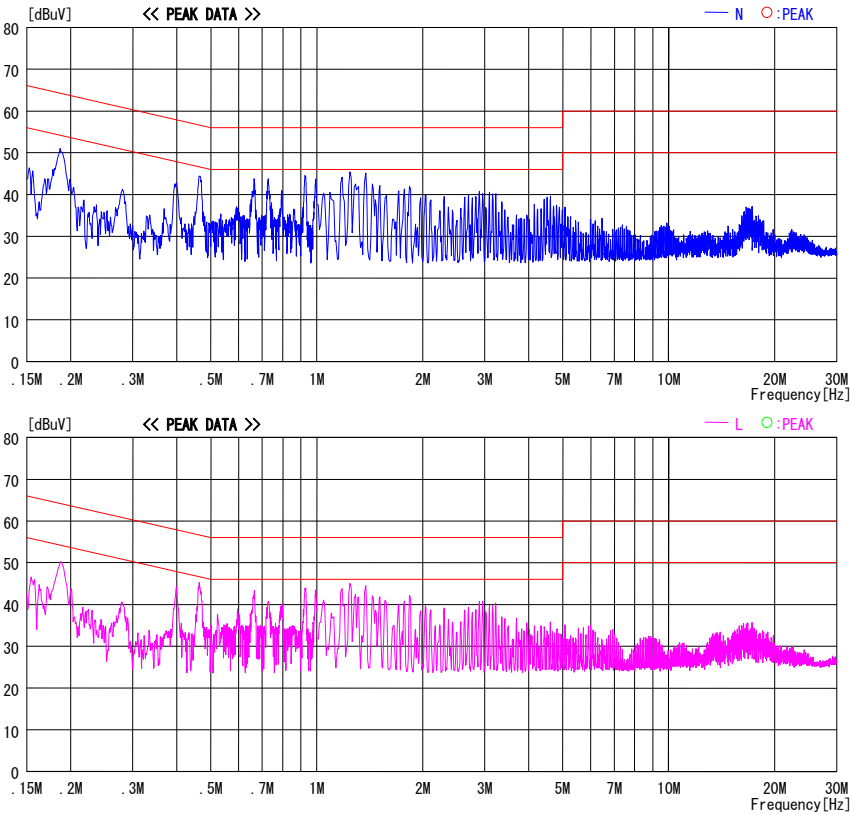


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(L1SN LOSS+CABLE LOSS)

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

Conducted Emission
Tx 11g, Ch: High

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

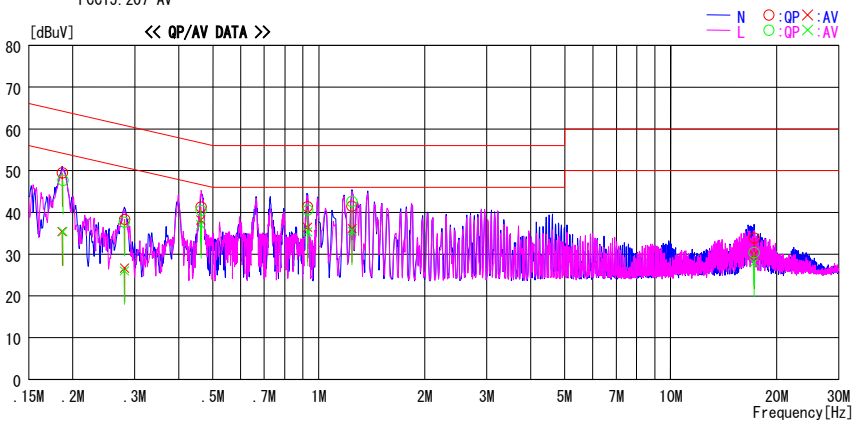
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/07/01

Company : NEC INFONTEA CORPORATION
Kind of EUT : Mobile Terminal EX
Model No. : S1613-01A
Serial No. : #10
Report No. : 27KE0198-HO
Power : AC 120V / 60Hz
Temp./Humi. : 26deg.C / 58%
Operator : Motoya Imura

Mode / Remarks : WLAN Tx 11g_54Mbps 2462MHz

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]	
0.18655	49.2	35.1	0.3	49.5	35.4	64.2	54.2	14.7	18.8	N
0.28090	38.0	26.3	0.3	38.3	26.6	60.8	50.8	22.5	24.2	N
0.46280	41.0	37.9	0.3	41.3	38.2	56.6	46.6	15.3	8.4	N
0.92861	41.1	36.1	0.3	41.4	36.4	56.0	46.0	14.6	9.6	N
1.24300	41.1	35.7	0.4	41.5	36.1	56.0	46.0	14.5	9.9	N
17.26017	32.2	28.1	1.7	33.9	29.8	60.0	50.0	26.1	20.2	N
0.18740	47.4	35.1	0.3	47.7	35.4	64.2	54.2	16.5	18.8	L
0.28005	37.4	25.7	0.3	37.7	26.0	60.8	50.8	23.1	24.8	L
0.46280	40.2	36.8	0.3	40.5	37.1	56.6	46.6	16.1	9.5	L
0.92946	40.3	35.0	0.3	40.6	35.3	56.0	46.0	15.4	10.7	L
1.24300	42.2	35.1	0.4	42.6	35.5	56.0	46.0	13.4	10.5	L
17.24017	28.7	26.2	1.7	30.4	27.9	60.0	50.0	29.6	22.1	L

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

Conducted Emission

Tx 11a, Ch: 165 (5825MHz)

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

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/07/01

Company

Kind of EUT

Model No.

Serial No.

: NEC INFRONTIA CORPORATION

: Mobile Terminal EX

: S1613-01A

: #10

Report No.

Power

Temp./Humi.

Operator

: 27KE0198-HO

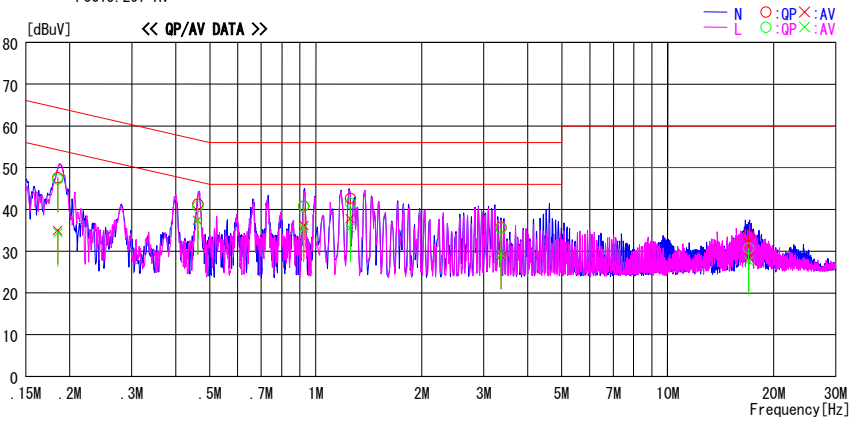
: AC 120V / 60Hz

: 26deg.C / 58%

: Motoya Imura

Mode / Remarks : WLAN Tx 11a_54Mbps 5825MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP	AV		QP	AV	QP	AV	QP	AV	
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]	
0.18474	47.3	34.7	0.3	47.6	35.0	64.3	54.3	16.7	19.3	N
0.46210	41.0	37.1	0.3	41.3	37.4	56.7	46.7	15.4	9.3	N
0.92433	40.5	35.9	0.3	40.8	36.2	56.0	46.0	15.2	9.8	N
1.25274	42.3	37.4	0.4	42.7	37.8	56.0	46.0	13.3	8.2	N
3.36080	35.1	28.3	0.6	35.7	28.9	56.0	46.0	20.3	17.1	N
16.97940	32.0	26.8	1.7	33.7	28.5	60.0	50.0	26.3	21.5	N
0.18510	47.0	34.1	0.3	47.3	34.4	64.3	54.3	17.0	19.9	L
0.46210	40.4	36.9	0.3	40.7	37.2	56.7	46.7	16.0	9.5	L
0.92284	40.5	35.2	0.3	40.8	35.5	56.0	46.0	15.2	10.5	L
1.25170	41.1	35.1	0.4	41.5	35.5	56.0	46.0	14.5	10.5	L
3.36130	35.0	28.7	0.6	35.6	29.3	56.0	46.0	20.4	16.7	L
16.97940	29.0	25.9	1.7	30.7	27.6	60.0	50.0	29.3	22.4	L

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

Conducted Emission
Rx 11b, Ch: Mid

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 2 Semi Anechoic Chamber
Date : 2007/08/22

Company : NEC INFRENTIA CORPORATION
Kind of EUT : Mobile Terminal EX
Model No. : S1613-01A
Serial No. : #10

Report No. : 27KE0198-HO
Power : AC 120V / 60Hz
Temp./Humi. : 24deg. C / 58%
Operator : Takahiro Hatakeda

Mode / Remarks : WLAN Rx 11b_2437MHz

LIMIT : FCC15.107(a) QP
FCC15.107(a) AV

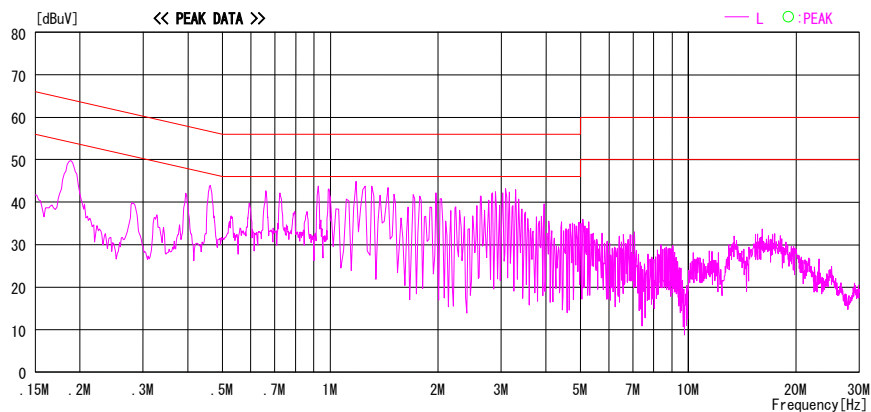
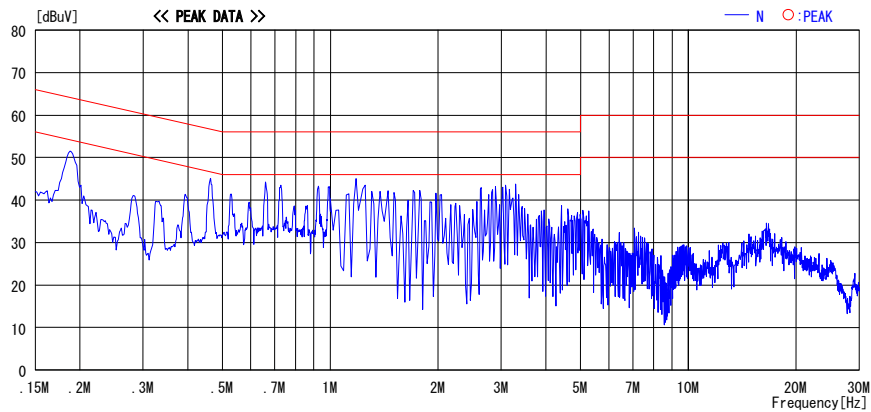


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

Rx 11b, Ch: Mid

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

DATA OF CONDUCTED EMISSION TEST

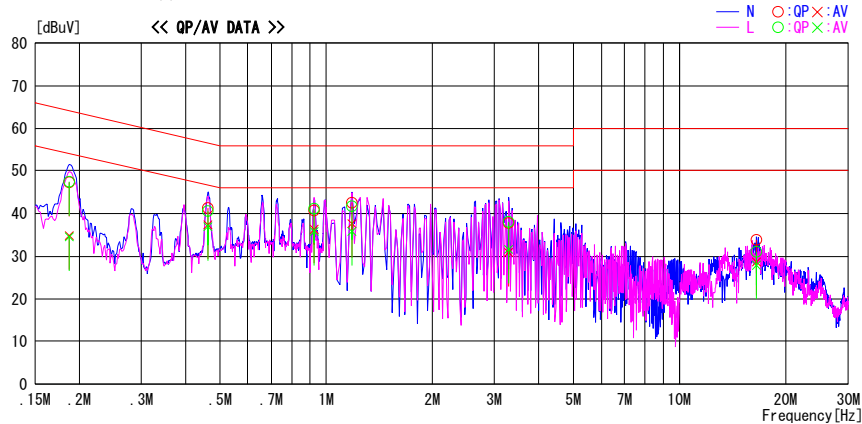
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/22

Company : NEC INFRENTIA CORPORATION
Kind of EUT : Mobile Terminal EX
Model No. : S1613-01A
Serial No. : #10

Report No. : 27KE0198-HO
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 58%
Operator : Takahiro Hatakeda

Mode / Remarks : WLAN Rx 11b_2437MHz

LIMIT : FCC15.107(a) QP
FCC15.107(a) AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.18745	47.0	34.5	0.3	47.3	34.8	64.1	54.1	16.8	19.3	N	
0.18748	47.1	34.2	0.3	47.4	34.5	64.1	54.1	16.7	19.6	L	
0.46172	40.2	36.6	0.3	40.5	36.9	56.7	46.7	16.2	9.8	L	
0.46173	40.9	37.0	0.3	41.2	37.3	56.7	46.7	15.5	9.4	N	
0.92505	40.7	35.4	0.4	41.1	35.8	56.0	46.0	14.9	10.2	L	
0.92511	40.3	35.9	0.4	40.7	36.3	56.0	46.0	15.3	9.7	N	
1.18036	41.3	35.4	0.4	41.7	35.8	56.0	46.0	14.3	10.2	L	
1.18039	42.1	37.2	0.4	42.5	37.6	56.0	46.0	13.5	8.4	N	
3.29055	37.1	30.2	0.7	37.8	30.9	56.0	46.0	18.2	15.1	N	
3.29059	37.3	30.9	0.7	38.0	31.6	56.0	46.0	18.0	14.4	L	
16.53306	29.3	26.1	1.8	31.1	27.9	60.0	50.0	28.9	22.1	L	
16.53311	32.1	26.9	1.8	33.9	28.7	60.0	50.0	26.1	21.3	N	

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

Conducted Emission

Rx 11g, Ch: Mid

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber

Date : 2007/08/22

Company : NEC INFRONTIA CORPORATION

Kind of EUT : Mobile Terminal EX

Model No. : S1613-01A

Serial No. : #10

Report No. : 27KE0198-HO

Power : AC 120V / 60Hz

Temp./Humi. : 24deg. C / 58%

Operator : Takahiro Hatakeda

Mode / Remarks : WLAN Rx 11g_2437MHz

LIMIT : FCC15.107(a) QP

FCC15.107(a) AV

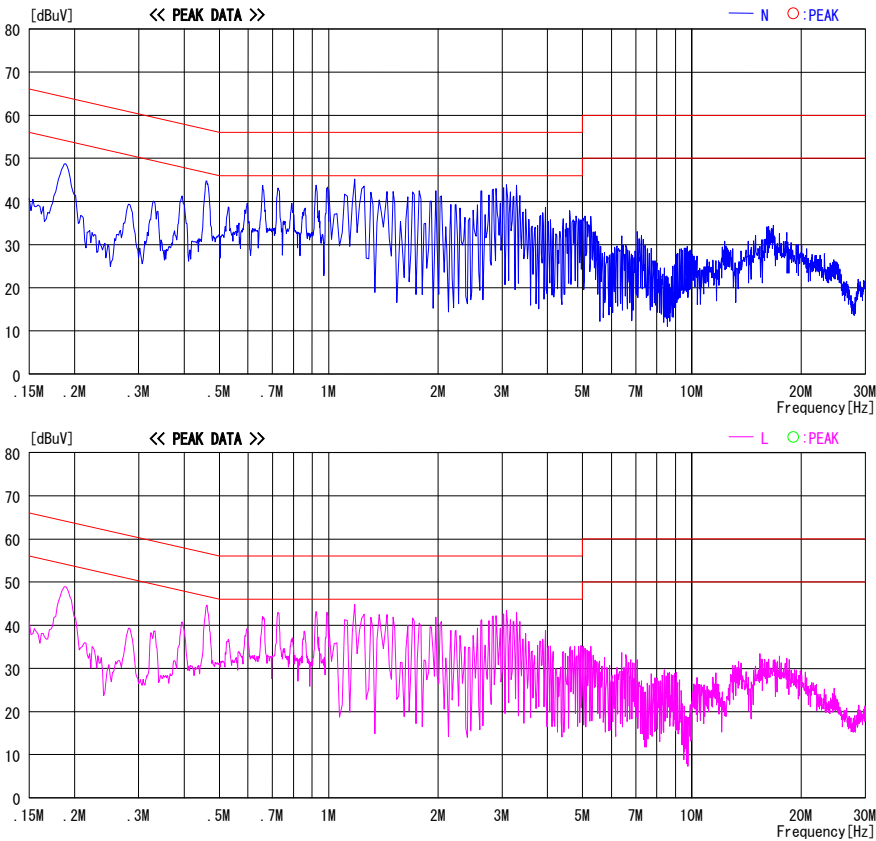


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F (LISN LOSS+CABLE LOSS)

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

Conducted Emission

Rx 11a, Ch: 165 (5825MHz)

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber

Date : 2007/08/22

Company : NEC INFRONTIA CORPORATION

Kind of EUT : Mobile Terminal EX

Model No. : S1613-01A

Serial No. : #10

Report No. : 27KE0198-HO

Power : AC 120V / 60Hz

Temp./Humi. : 24deg.C / 58%

Operator : Takahiro Hatakeda

Mode / Remarks : WLAN Rx 11a_5825MHz

LIMIT : FCC15.107(a) QP

FCC15.107(a) AV

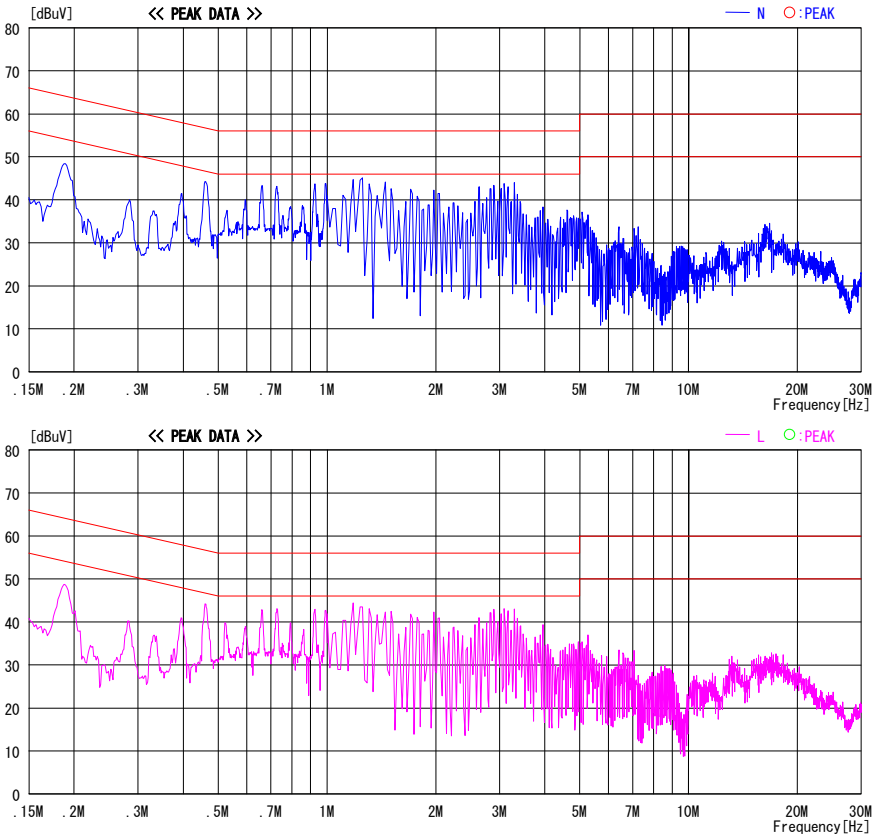


CHART:WITH FACTOR, Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(L:ISN LOSS+CABLE LOSS)

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 INFRONTIA CORPORATION
Equipment : Mobile Terminal EX
Model : S1613-01A
Sample No. : #10
Power : AC120V/60Hz
Mode : WLAN Tx 11b/11g/11a

REPORT NO : 27KE0198-HO
REGULATION : FCC15.247(a)(2)/RSS-210A8.2(a)
TEST DISTANCE : -
DATE : 06/27/2007
TEMPERATURE : 25 deg.C.
HUMIDITY : 62%
ENGINEER : Takahiro Hatakeda

[IEEE802.11b] ANT-A, 11Mbps

Ch	Freq.	6dB Bandwidth	Limit
	[MHz]	[MHz]	[kHz]
Low	2412.0	11.672	>500
Mid	2437.0	10.894	>500
High	2462.0	11.236	>500

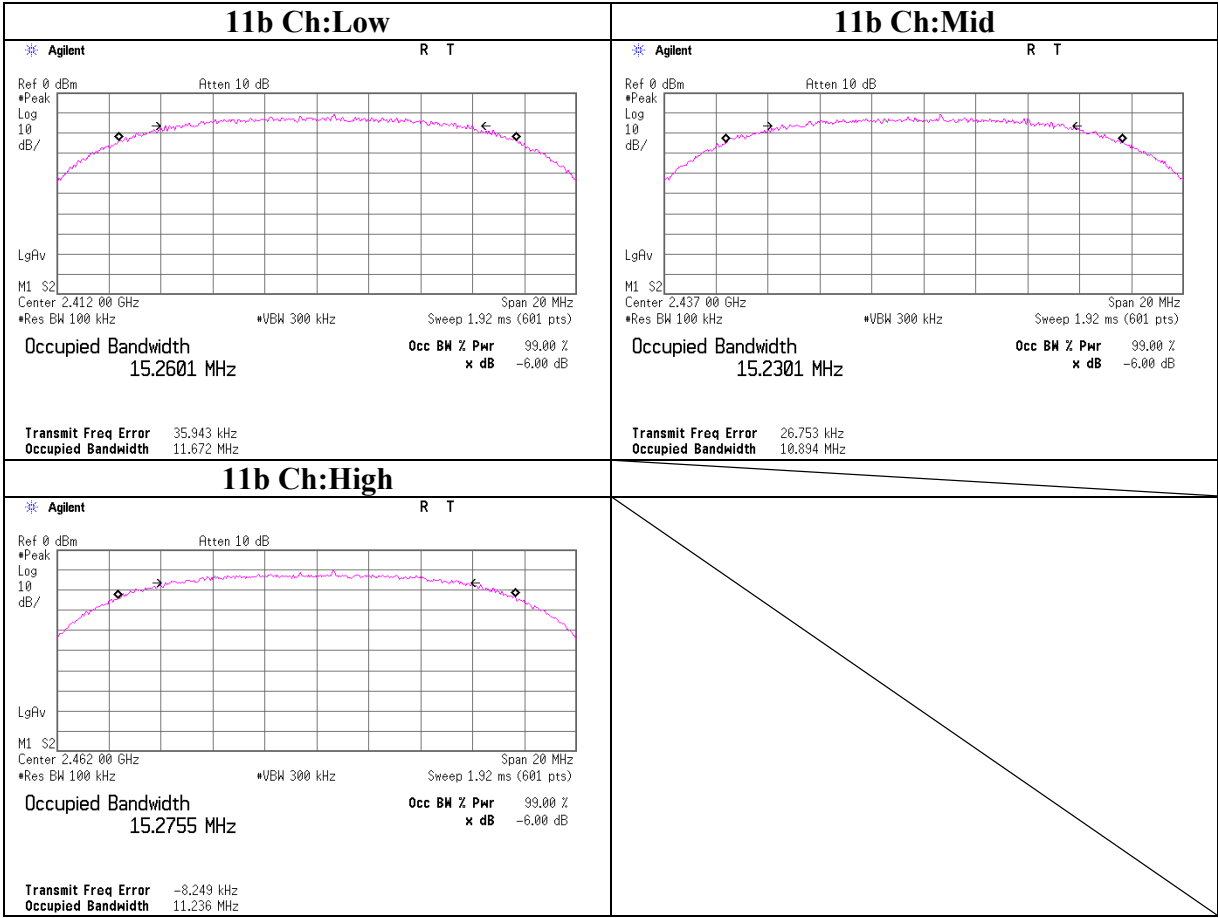
[IEEE802.11g] ANT-A 54Mbps

Ch	Freq.	6dB Bandwidth	Limit
	[MHz]	[MHz]	[kHz]
Low	2412.0	16.508	>500
Mid	2437.0	16.473	>500
High	2462.0	16.458	>500

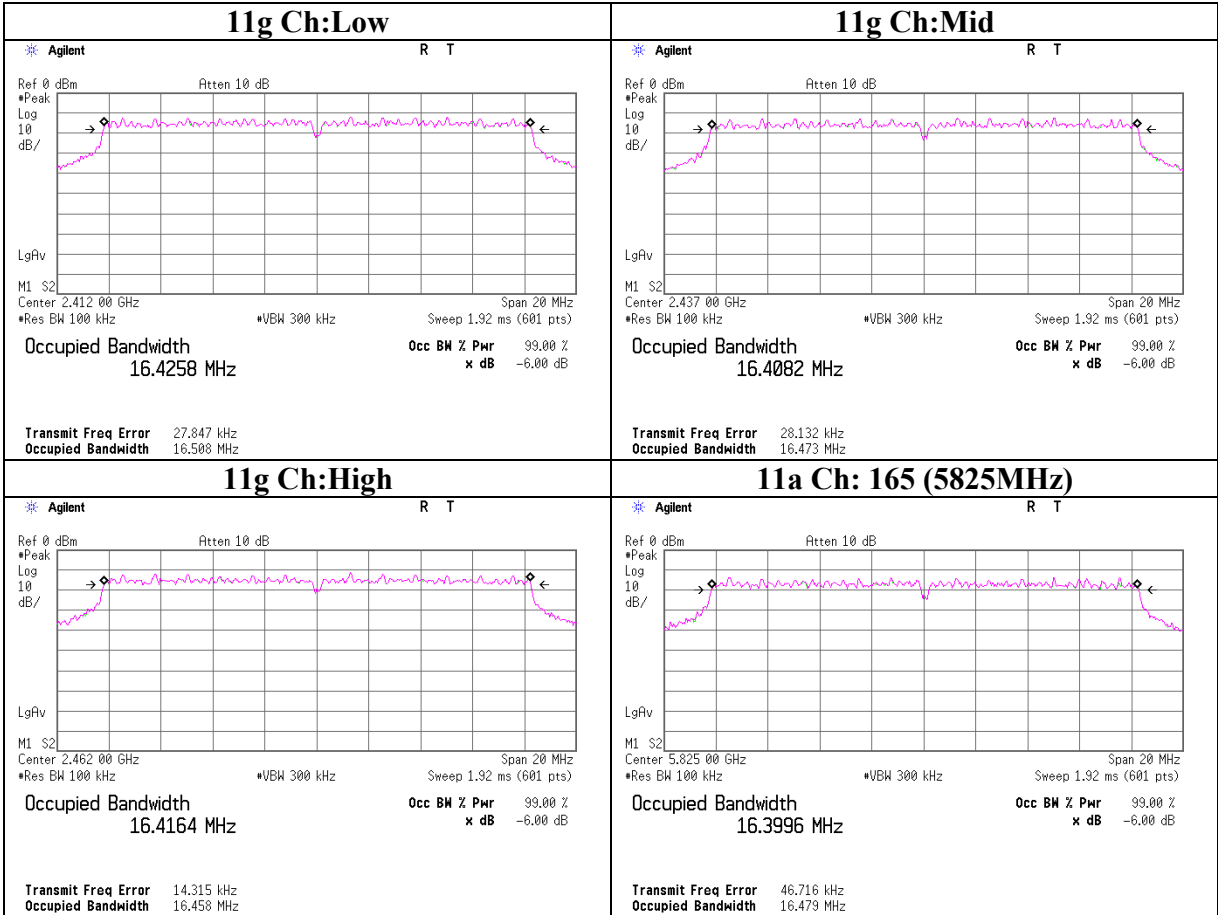
[IEEE802.11a] ANT-A 54Mbps

Ch	Freq.	6dB Bandwidth	Limit
	[MHz]	[MHz]	[kHz]
165	5825.0	16.479	>500

6dB Bandwidth



6dB Bandwidth



Maximum Peak Output Power

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

Company : NEC INFRONTIA CORPORATION REPORT NO : 27KE0198-HO
Equipment : Mobile Terminal EX REGULATION : FCC15.247(b)(3)/RSS-210A8.4(4)
Model : S1613-01A TEST DISTANCE : -
Sample No. : #10 DATE : 06/27/2007
Power : AC120V/60Hz TEMPERATURE : 25 deg.C.
Mode : WLAN Tx 11b/11g HUMIDITY : 62%
ENGINEER : Takahiro Hatakeda

[IEEE 802.11b] ANT-A , 11Mbps

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	0.03	1.88	10.02	11.93	15.60	30.00	1000	18.07
Mid	2437.0	-0.32	1.90	10.02	11.60	14.45	30.00	1000	18.40
High	2462.0	-0.02	1.90	10.02	11.90	15.49	30.00	1000	18.10

[IEEE 802.11b] ANT-B , 11Mbps

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	-0.22	1.88	10.02	11.68	14.72	30.00	1000	18.32
Mid	2437.0	-0.32	1.90	10.02	11.60	14.45	30.00	1000	18.40
High	2462.0	-0.31	1.90	10.02	11.61	14.49	30.00	1000	18.39

[IEEE 802.11g] ANT-A , 54Mbps

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	7.43	1.88	10.02	19.33	85.70	30.00	1000	10.67
Mid	2437.0	7.54	1.90	10.02	19.46	88.31	30.00	1000	10.54
High	2462.0	7.61	1.90	10.02	19.53	89.74	30.00	1000	10.47

[IEEE 802.11g] ANT-B , 54Mbps

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	7.33	1.88	10.02	19.23	83.75	30.00	1000	10.77
Mid	2437.0	7.31	1.90	10.02	19.23	83.75	30.00	1000	10.77
High	2462.0	7.59	1.90	10.02	19.51	89.33	30.00	1000	10.49

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

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

*ANT-B data is a preliminary test data (reference data)

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Reference data for SAR testing

[IEEE 802.11b] ANT-A , 5.5Mbps

Ch	Freq. [MHz]	P/M(AV) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm]
Low	2412.0	-1.91	1.88	10.02	9.99
Mid	2437.0	-2.48	1.90	10.02	9.44
High	2462.0	-1.92	1.90	10.02	10.00

[IEEE 802.11b] ANT-B , 2Mbps

Ch	Freq. [MHz]	P/M(AV) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm]
Low	2412.0	-2.02	1.88	10.02	9.88
Mid	2437.0	-2.51	1.90	10.02	9.41
High	2462.0	-2.06	1.90	10.02	9.86

[IEEE 802.11g] ANT-A , 54Mbps

Ch	Freq. [MHz]	P/M(AV) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm]
Low	2412.0	-1.66	1.88	10.02	10.24
Mid	2437.0	-2.21	1.90	10.02	9.71
High	2462.0	-1.10	1.90	10.02	10.82

[IEEE 802.11g] ANT-B , 9Mbps

Ch	Freq. [MHz]	P/M(AV) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm]
Low	2412.0	-1.60	1.88	10.02	10.30
Mid	2437.0	-2.12	1.90	10.02	9.80
High	2462.0	-0.97	1.90	10.02	10.95

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

Maximum Peak Output Power

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

Company : NEC INFRONTIA CORPORATION Equipment : Mobile Terminal EX Model : S1613-01A Sample No. : #10 Power : AC120V/60Hz Mode : WLAN Tx 11a	REPORT NO : 27KE0198-HO REGULATION : FCC15.247(b)(3)/RSS-210A8.4(4) TEST DISTANCE : - DATE : 06/27/2007 08/01/2007 TEMPERATURE : 25 deg.C. 25 deg.C. HUMIDITY : 62% 60% ENGINEER : Takahiro Hatakeda Hidekazu Tanaka
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[IEEE 802.11a] ANT-A , 54Mbps

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
165	5825.0	6.80	3.23	10.06	20.09	102.09	30.00	1000	9.91

[IEEE 802.11a] ANT-B , 54Mbps

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
165	5825.0	6.06	3.23	10.06	19.35	86.10	30.00	1000	10.65

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

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

*ANT-B data is a preliminary test data (reference data)

Reference data for SAR testing

[IEEE 802.11a] ANT-A , 6Mbps

Ch	Freq. [MHz]	P/M(AV) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm]
165	5825.0	-1.01	1.41	10.24	10.64

[IEEE 802.11a] ANT-B , 6Mbps

Ch	Freq. [MHz]	P/M(AV) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result [dBm]
165	5825.0	-1.04	1.41	10.24	10.61

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 observe

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Radiated Spurious Emission (below 1GHz)

Tx 11b, Ch:Low

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

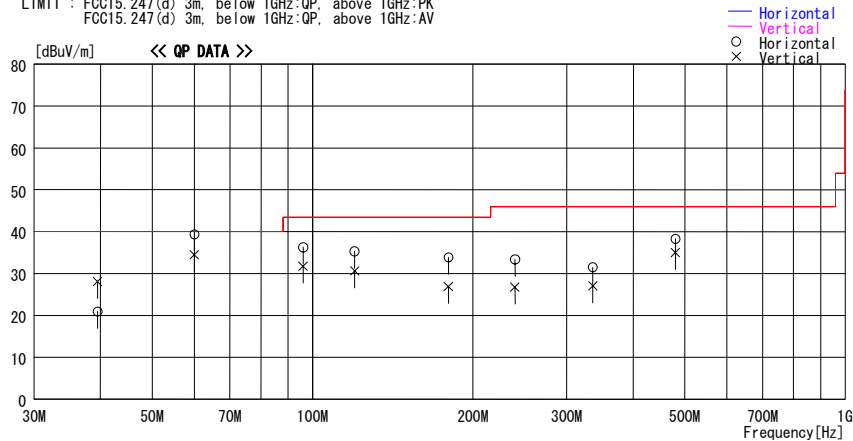
DATA OF RADIATED EMISSION TEST

UL Japan Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/06/28

Company : NEC INFRENTIA CORPORATION
Kind of EUT : Mobile Terminal EX
Model No. : S1613-01A
Serial No. : #10
Report No. : 27KE0198-HO
Power : AC120V / 60Hz
Temp./Humi. : 25deg.C / 68%
Operator : Makoto Kosaka

Mode / Remarks : WLAN Tx 11b, Lch 2412MHz, 11Mbps(Worst), Hor:Z-axis/Ver:Z-axis(Worst) ANT-A

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



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dBm]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
39.472	31.7	QP	14.1	-24.8	21.0	318	335	Hori.	40.0	19.1	
39.471	38.8	QP	14.1	-24.8	28.1	24	119	Vert.	40.0	11.9	
59.999	55.1	QP	8.6	-24.4	39.3	311	343	Hori.	40.0	0.7	
59.999	50.3	QP	8.6	-24.4	34.5	39	267	Vert.	40.0	5.5	
96.008	50.7	QP	9.7	-24.1	36.3	229	274	Hori.	43.5	7.2	
96.008	46.2	QP	9.7	-24.1	31.8	308	269	Vert.	43.5	11.8	
119.999	46.0	QP	13.1	-23.7	35.4	0	272	Hori.	43.5	8.1	
119.999	41.2	QP	13.1	-23.7	30.6	8	100	Vert.	43.5	12.9	
179.999	40.4	QP	16.5	-23.0	33.9	350	100	Hori.	43.5	9.6	
180.000	33.4	QP	16.5	-23.0	26.9	120	100	Vert.	43.5	16.6	
239.999	38.8	QP	17.1	-22.5	33.4	344	102	Hori.	46.0	12.7	
239.999	32.2	QP	17.1	-22.5	26.8	93	173	Vert.	46.0	19.2	
336.001	38.1	QP	15.3	-21.8	31.6	72	101	Hori.	46.0	14.5	
336.001	33.6	QP	15.3	-21.8	27.1	39	196	Vert.	46.0	19.0	
479.997	41.0	QP	18.2	-20.9	38.3	334	182	Hori.	46.0	7.7	
479.997	37.7	QP	18.2	-20.9	35.0	265	111	Vert.	46.0	11.0	

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)

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Radiated Spurious Emission (below 1GHz)

Tx 11b, Ch:Mid

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

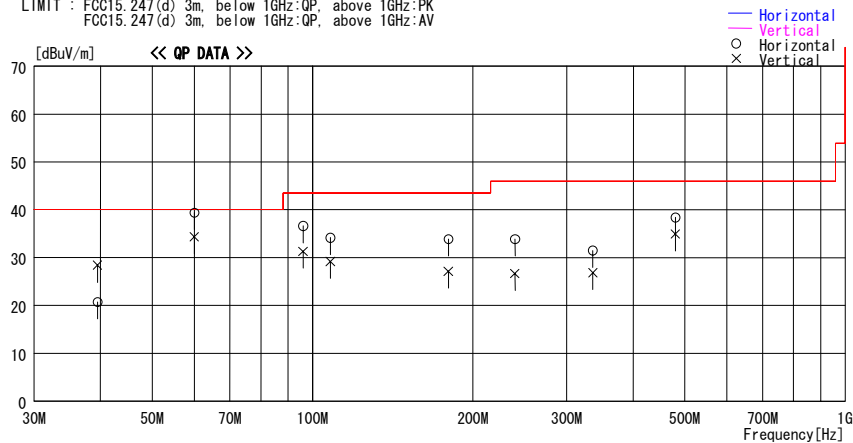
DATA OF RADIATED EMISSION TEST

UL Japan Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/06/28

Company : NEC INFRENTIA CORPORATION
Kind of EUT : Mobile Terminal EX
Model No. : S1613-01A
Serial No. : #10
Report No. : 27KE0198-HO
Power : AC120V / 60Hz
Temp./Humi. : 25deg.C / 68%
Operator : Makoto Kosaka

Mode / Remarks : WLAN Tx 11b, Mch 2437MHz, 11Mbps(Worst), Hor:Z-axis/Ver:Z-axis(Worst) ANT-A

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



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
39.472	31.4	QP	14.1	-24.8	20.7	340	312	Hori.	40.0	19.3	
39.472	39.1	QP	14.1	-24.8	28.4	284	112	Vert.	40.0	11.6	
60.000	55.2	QP	8.6	-24.4	39.4	319	366	Hori.	40.0	0.6	
59.999	50.2	QP	8.6	-24.4	34.4	43	271	Vert.	40.0	5.6	
96.009	51.1	QP	9.7	-24.1	36.7	40	166	Hori.	43.5	6.8	
96.008	45.7	QP	9.7	-24.1	31.3	294	287	Vert.	43.5	12.2	
108.010	46.5	QP	11.6	-23.9	34.2	62	277	Hori.	43.5	9.3	
108.009	41.5	QP	11.6	-23.9	29.2	98	113	Vert.	43.5	14.3	
179.999	40.4	QP	16.5	-23.0	33.9	356	100	Hori.	43.5	9.6	
179.999	33.7	QP	16.5	-23.0	27.2	109	102	Vert.	43.5	16.3	
239.998	39.3	QP	17.1	-22.5	33.9	350	100	Hori.	46.0	12.1	
239.998	32.1	QP	17.1	-22.5	26.7	89	178	Vert.	46.0	19.3	
336.000	38.0	QP	15.3	-21.8	31.5	298	100	Hori.	46.0	14.5	
336.000	33.4	QP	15.3	-21.8	26.9	26	195	Vert.	46.0	19.1	
479.998	41.1	QP	18.2	-20.9	38.4	330	183	Hori.	46.0	7.6	
479.998	37.6	QP	18.2	-20.9	34.9	266	117	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)

Radiated Spurious Emission (below 1GHz)

Tx 11b, Ch:High

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

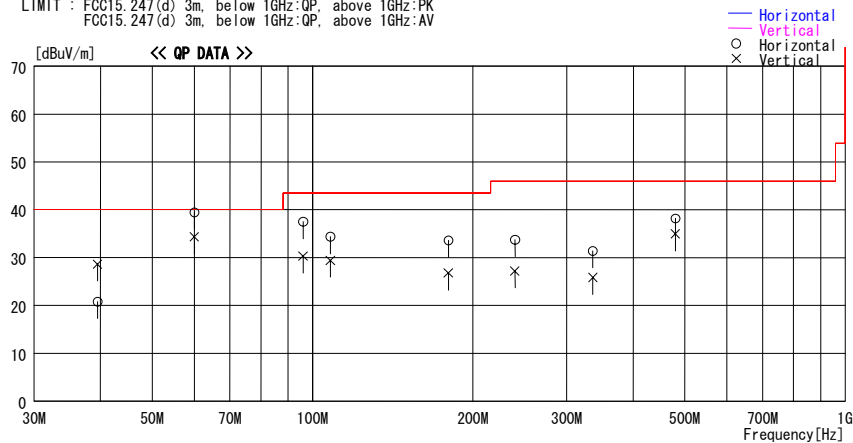
DATA OF RADIATED EMISSION TEST

UL Japan Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/06/28

Company : NEC INFRENTIA CORPORATION
Kind of EUT : Mobile Terminal EX
Model No. : S1613-01A
Serial No. : #10
Report No. : 27KE0198-HO
Power : AC120V / 60Hz
Temp./Humi. : 25deg.C / 68%
Operator : Makoto Kosaka

Mode / Remarks : WLAN Tx 11b, Hch 2462MHz, 11Mbps(Worst), Hor:Z-axis/Ver:Z-axis(Worst) ANT-A

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



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
39.475	31.5	QP	14.1	-24.8	20.8	315	254	Hori.	40.0	19.2	
39.477	39.3	QP	14.1	-24.8	28.6	280	100	Vert.	40.0	11.4	
60.000	55.2	QP	8.6	-24.4	39.4	314	349	Hori.	40.0	0.6	
59.999	50.1	QP	8.6	-24.4	34.3	37	275	Vert.	40.0	5.7	
96.008	51.9	QP	9.7	-24.1	37.5	35	197	Hori.	43.5	6.0	
96.008	44.7	QP	9.7	-24.1	30.3	287	278	Vert.	43.5	13.2	
108.009	46.7	QP	11.6	-23.9	34.4	57	295	Hori.	43.5	9.1	
108.009	41.7	QP	11.6	-23.9	29.4	100	101	Vert.	43.5	14.1	
179.999	40.1	QP	16.5	-23.0	33.6	0	101	Hori.	43.5	9.9	
179.999	33.3	QP	16.5	-23.0	26.8	119	100	Vert.	43.5	16.8	
239.999	39.2	QP	17.1	-22.5	33.8	353	100	Hori.	46.0	12.3	
240.000	32.6	QP	17.1	-22.5	27.2	102	129	Vert.	46.0	18.8	
336.009	37.9	QP	15.3	-21.8	31.4	322	100	Hori.	46.0	14.6	
336.001	32.4	QP	15.3	-21.8	25.9	2	181	Vert.	46.0	20.2	
479.998	40.9	QP	18.2	-20.9	38.2	321	175	Hori.	46.0	7.8	
479.998	37.7	QP	18.2	-20.9	35.0	265	113	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)

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

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

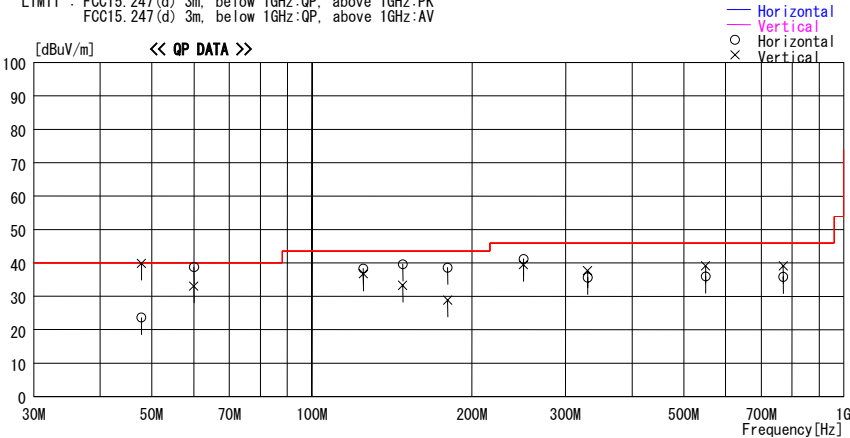
DATA OF RADIATED EMISSION TEST

UL Japan Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/07/30

Company : NEC INFRONTIA CORPORATION
Kind of EUT : Mobile Terminal EX
Model No. : S1613-01A
Serial No. : #10
Report No. : 27KE0198-HO
Power : AC120V / 60Hz
Temp./Humi. : 25deg.C / 53%
Operator : Makoto Kosaka

Mode / Remarks : WLAN Rx 11b, 2437MHz, Hor:Z-axis/Ver:Z-axis(Worst) ANT-A

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



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit		Comment
			Factor [dB/m]	Loss Gain [dB]					[dBuV/m]	[dB]	
47.801	37.1	QP	11.2	-24.7	23.6	98	400	Hori.	40.0	16.4	
47.801	53.4	QP	11.2	-24.7	39.9	256	100	Vert.	40.0	0.1	
60.000	54.6	QP	8.6	-24.4	38.8	121	331	Hori.	40.0	1.2	
60.000	48.9	QP	8.6	-24.4	33.1	239	100	Vert.	40.0	6.9	
124.995	48.4	QP	13.5	-23.6	38.3	329	139	Hori.	43.5	5.2	
124.995	46.8	QP	13.5	-23.6	36.7	124	100	Vert.	43.5	6.8	
148.135	47.9	QP	15.1	-23.4	39.6	197	232	Hori.	43.5	3.9	
148.135	41.6	QP	15.1	-23.4	33.3	277	100	Vert.	43.5	10.2	
179.999	45.1	QP	16.5	-23.0	38.6	0	100	Hori.	43.5	4.9	
180.120	35.4	QP	16.5	-23.0	28.9	34	163	Vert.	43.5	14.6	
250.012	46.4	QP	17.2	-22.4	41.2	200	145	Hori.	46.0	4.8	
250.012	44.7	QP	17.2	-22.4	39.5	87	100	Vert.	46.0	6.5	
329.997	42.5	QP	15.1	-21.9	35.7	261	100	Hori.	46.0	10.3	
329.997	44.5	QP	15.1	-21.9	37.7	239	157	Vert.	46.0	8.3	
549.996	37.8	QP	18.8	-20.6	36.0	183	271	Hori.	46.0	10.0	
549.996	40.9	QP	18.8	-20.6	39.1	232	100	Vert.	46.0	6.9	
769.995	34.0	QP	21.1	-19.2	35.9	205	100	Hori.	46.0	10.1	
769.995	37.2	QP	21.1	-19.2	39.1	144	100	Vert.	46.0	6.9	

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)

Tx 11g, Ch:Low

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

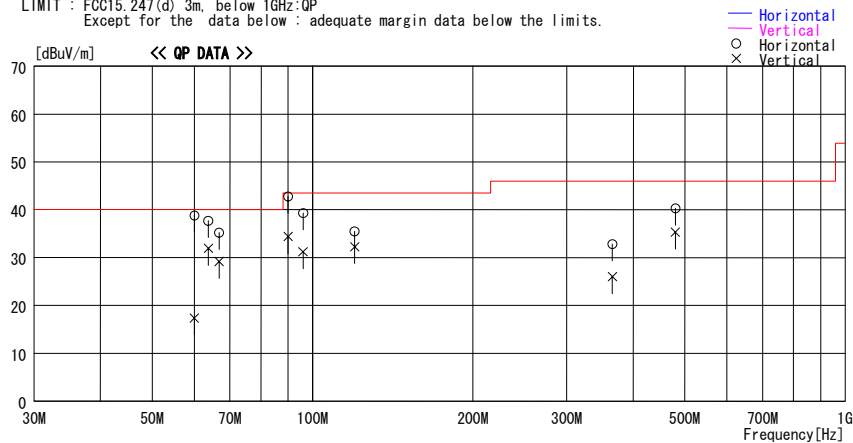
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/06/30

Company : NEC INFRONTIA CORPORATION Report No. : 27KE0198-HO
Kind of EUT : Mobile Terminal EX Power : AC120V / 60Hz
Model No. : S1613-01A Temp./Humi. : 25deg.C / 64%
Serial No. : #10 Operator : Shinya Watanabe

Mode / Remarks : WLAN Tx 11g, Lch 2412MHz, 54Mbps(Worst), Hor:Z-axis/Ver:Z-axis(Worst) ANT-A

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
Except for the data below : adequate margin data below the limits.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
60.000	54.6	QP	8.6	-24.4	38.8	0	343	Hori.	40.0	1.2	
60.000	33.2	QP	8.6	-24.4	17.4	55	225	Vert.	40.0	22.6	
63.766	54.1	QP	8.0	-24.4	37.7	0	325	Hori.	40.0	2.3	
63.766	48.3	QP	8.0	-24.4	31.9	66	280	Vert.	40.0	8.1	
66.803	51.9	QP	7.6	-24.3	35.2	18	273	Hori.	40.0	4.8	
66.803	45.9	QP	7.6	-24.3	29.2	77	262	Vert.	40.0	10.8	
90.007	58.2	QP	8.6	-24.0	42.8	49	208	Hori.	43.5	0.7	
90.007	49.8	QP	8.6	-24.0	34.4	295	274	Vert.	43.5	9.1	
96.008	53.7	QP	9.7	-24.1	39.3	61	187	Hori.	43.5	4.2	
96.008	45.6	QP	9.7	-24.1	31.2	272	100	Vert.	43.5	12.3	
119.999	46.1	QP	13.1	-23.7	35.5	0	150	Hori.	43.5	8.0	
119.999	42.9	QP	13.1	-23.7	32.3	47	223	Vert.	43.5	11.2	
365.520	38.2	QP	16.3	-21.7	32.8	132	100	Hori.	46.0	13.2	
365.520	31.4	QP	16.3	-21.7	26.0	252	146	Vert.	46.0	20.0	
479.997	43.0	QP	18.2	-20.9	40.3	240	100	Hori.	46.0	5.7	
479.997	38.0	QP	18.2	-20.9	35.3	260	127	Vert.	46.0	10.7	

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)

UL Japan, Inc.

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

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

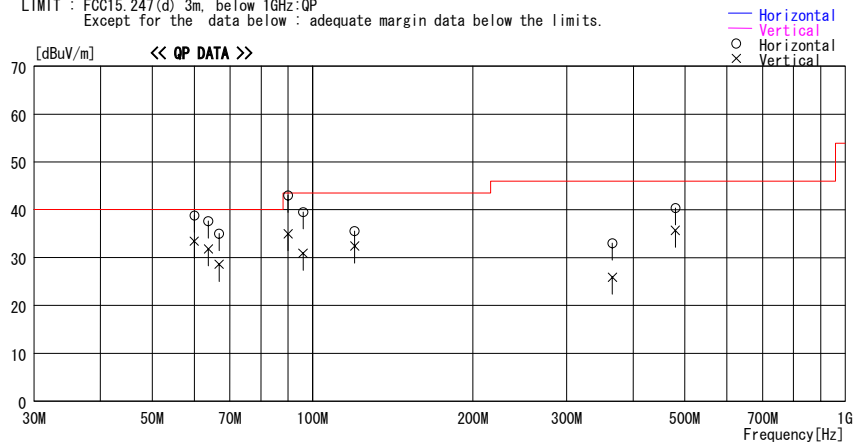
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/06/30

Company : NEC INFRONTIA CORPORATION Report No. : 27KE0198-HO
Kind of EUT : Mobile Terminal EX Power : AC120V / 60Hz
Model No. : S1613-01A Temp./Humi. : 25deg.C / 64%
Serial No. : #10 Operator : Shinya Watanabe

Mode / Remarks : WLAN Tx 11g, Mch 2437MHz, 54Mbps(Worst), Hor:Z-axis/Ver:Z-axis(Worst) ANT-A

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
Except for the data below : adequate margin data below the limits.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
59.999	54.6	QP	8.6	-24.4	38.8	0	359	Hori.	40.0	1.2	
59.999	49.2	QP	8.6	-24.4	33.4	274	100	Vert.	40.0	6.6	
63.767	54.0	QP	8.0	-24.4	37.6	0	334	Hori.	40.0	2.4	
63.767	48.2	QP	8.0	-24.4	31.8	62	261	Vert.	40.0	8.2	
66.803	51.7	QP	7.6	-24.3	35.0	9	288	Hori.	40.0	5.0	
66.803	45.3	QP	7.6	-24.3	28.6	72	282	Vert.	40.0	11.4	
90.007	58.4	QP	8.6	-24.0	43.0	47	208	Hori.	43.5	0.5	
90.007	50.4	QP	8.6	-24.0	35.0	307	280	Vert.	43.5	8.5	
96.008	53.9	QP	9.7	-24.1	39.5	59	181	Hori.	43.5	4.0	
96.008	45.3	QP	9.7	-24.1	30.9	285	132	Vert.	43.5	12.6	
119.999	46.2	QP	13.1	-23.7	35.6	0	154	Hori.	43.5	7.9	
119.999	43.0	QP	13.1	-23.7	32.4	65	213	Vert.	43.5	11.1	
365.540	38.4	QP	16.3	-21.7	33.0	126	100	Hori.	46.0	13.0	
365.540	31.3	QP	16.3	-21.7	25.9	323	128	Vert.	46.0	20.1	
479.998	43.1	QP	18.2	-20.9	40.4	242	100	Hori.	46.0	5.6	
479.998	38.4	QP	18.2	-20.9	35.7	259	127	Vert.	46.0	10.3	

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)

Radiated Spurious Emission (below 1GHz)

Rx 11g, Ch:Mid

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

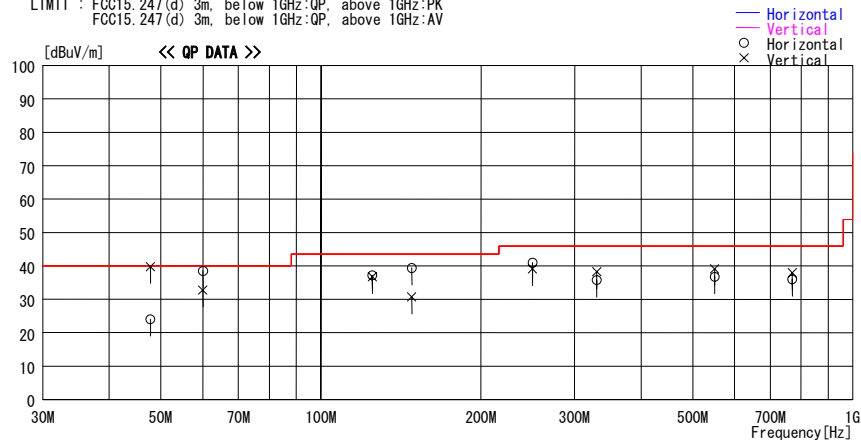
DATA OF RADIATED EMISSION TEST

UL Japan Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2007/07/30

Company : NEC INFRENTIA CORPORATION Report No. : 27KE0198-HO
Kind of EUT : Mobile Terminal EX Power : AC120V / 60Hz
Model No. : S1613-01A Temp./Humi. : 25deg.C / 53%
Serial No. : #10 Operator : Makoto Kosaka

Mode / Remarks : WLAN Rx 11g, 2437MHz, Hor:Z-axis/Ver:Z-axis(Worst) ANT-A

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



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit		Margin	Comment
			Factor [dB/m]	Loss Gain [dB]					[dBuV/m]	[dB]		
47.801	37.6	QP	11.2	-24.7	24.1	140	400	Hori.	40.0		15.9	
47.801	53.3	QP	11.2	-24.7	39.8	303	100	Vert.	40.0		0.2	
60.000	54.3	QP	8.6	-24.4	38.5	137	366	Hori.	40.0		1.5	
60.000	48.6	QP	8.6	-24.4	32.8	251	100	Vert.	40.0		7.2	
125.000	47.3	QP	13.5	-23.6	37.2	351	268	Hori.	43.5		6.3	
125.000	46.9	QP	13.5	-23.6	36.8	127	100	Vert.	43.5		6.7	
148.135	47.7	QP	15.1	-23.4	39.4	172	219	Hori.	43.5		4.1	
148.135	39.0	QP	15.1	-23.4	30.7	118	100	Vert.	43.5		12.8	
250.012	46.2	QP	17.2	-22.4	41.0	188	203	Hori.	46.0		5.0	
250.012	44.4	QP	17.2	-22.4	39.2	109	100	Vert.	46.0		6.8	
329.998	42.6	QP	15.1	-21.9	35.8	262	100	Hori.	46.0		10.2	
329.998	45.0	QP	15.1	-21.9	38.2	249	150	Vert.	46.0		7.8	
549.995	38.6	QP	18.8	-20.6	36.8	325	240	Hori.	46.0		9.2	
549.995	41.0	QP	18.8	-20.6	39.2	235	100	Vert.	46.0		6.8	
769.995	34.1	QP	21.1	-19.2	36.0	199	100	Hori.	46.0		10.0	
769.995	36.0	QP	21.1	-19.2	37.9	140	100	Vert.	46.0		8.1	

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)

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

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

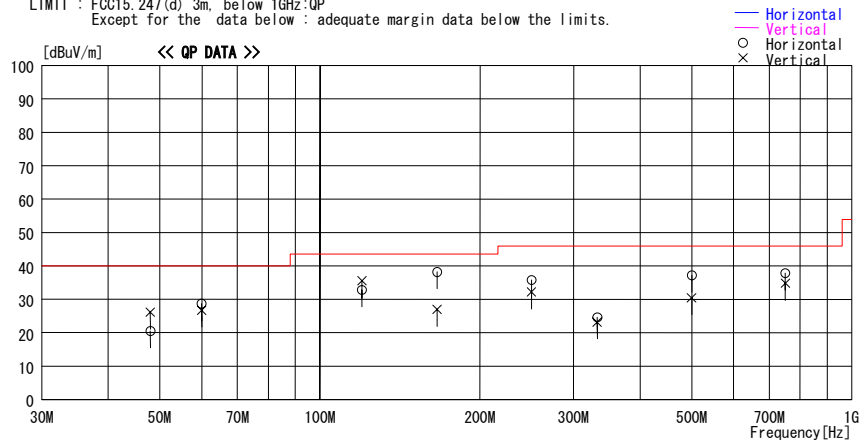
DATA OF RADIATED EMISSION TEST

UL Japan Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/02

Company : NEC INFRENTIA CORPORATION Report No. : 27KE0198-HO
Kind of EUT : Mobile terminal EX Power : AC120V / 60Hz
Model No. : S1613-01A Temp./Humi. : 23deg.C / 66%
Serial No. : #10 Operator : Shinya Watanabe

Mode / Remarks : WLAN Rx 11a, Rx 5825MHz, Hor:Y-Axis Ver:Y-Axis, ANT-A

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit	
			Factor [dBm]	Loss Gain [dB]					[dBuV/m]	[dB]
47.976	31.5	QP	10.9	-21.9	20.5	268	348	Hori.	40.0	19.5
47.976	37.1	QP	10.9	-21.9	26.1	300	100	Vert.	40.0	13.9
59.940	42.1	QP	8.3	-21.7	28.7	103	400	Hori.	40.0	11.3
59.940	40.2	QP	8.3	-21.7	26.8	233	100	Vert.	40.0	13.2
119.961	40.9	QP	12.9	-21.0	32.8	326	162	Hori.	43.5	10.7
119.961	43.6	QP	12.9	-21.0	35.5	32	100	Vert.	43.5	8.0
166.174	43.0	QP	15.6	-20.4	38.2	275	272	Hori.	43.5	5.3
166.174	31.8	QP	15.6	-20.4	27.0	31	100	Vert.	43.5	16.5
250.000	38.6	QP	16.7	-19.5	35.8	279	100	Hori.	46.0	10.2
250.000	35.0	QP	16.7	-19.5	32.2	58	100	Vert.	46.0	13.8
332.320	28.2	QP	15.7	-19.2	24.7	146	100	Hori.	46.0	21.3
332.320	26.7	QP	15.7	-19.2	23.2	70	124	Vert.	46.0	22.8
500.000	38.2	QP	18.5	-19.5	37.2	203	100	Hori.	46.0	8.8
500.000	31.5	QP	18.5	-19.5	30.5	38	100	Vert.	46.0	15.5
750.000	34.7	QP	21.2	-18.0	37.9	197	125	Hori.	46.0	8.1
750.000	31.6	QP	21.2	-18.0	34.8	105	100	Vert.	46.0	11.2

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)

Test report No. : 27KE0198-HO-A
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Issued date : September 7, 2007
FCC ID : S4JS1613-01A

Radiated Spurious Emission (above 1GHz)

Tx 11b, Ch:Low

UL Japan, Inc.

Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : NEC INFRONTIA CORPORATION
Equipment : Mobile Terminal EX
Model : S1613-01A
Sample No. : #10
Power : AC 120 V / 60 Hz
Mode : WLAN Tx 11b 11Mbps 2412MHz
Remarks : Hor Z-axis, Ver Z-axis, ANT-A

REPORT NO : 27KE0198-HO
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3/1m
DATE : 06/25/2007 06/30/2007
TEMPERATURE : 23deg.C 25deg.C
HUMIDITY : 59% 60%
ENGINEER : Tomotaka Sasagawa Shinya Watanabe

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	44.8	44.2	27.3	31.5	3.0	0.0	43.6	43.0	73.9	30.3	30.9
2*	2400.0	64.0	58.5	27.3	31.5	3.0	0.0	62.8	57.3	73.9	-	-
3	4824.0	50.9	49.3	31.6	30.7	3.9	0.7	56.4	54.8	73.9	17.5	19.1
4	7236.0	42.1	42.0	35.8	31.3	4.5	0.4	51.5	51.4	73.9	22.4	22.5
5	9648.0	42.1	41.9	38.2	32.0	5.4	0.6	54.3	54.1	73.9	19.6	19.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12185.0	NS	NS	41.5	39.8	13.8	0.3	NS	NS	73.9	NS	NS
7	14622.0	NS	NS	42.1	40.9	15.7	0.2	NS	NS	73.9	NS	NS
8	17059.0	NS	NS	44.6	41.9	17.1	1.1	NS	NS	73.9	NS	NS
9	19296.0	NS	NS	37.5	31.7	7.9	0.0	NS	NS	73.9	NS	NS
10	21708.0	NS	NS	38.0	31.5	8.3	0.0	NS	NS	73.9	NS	NS
11	24120.0	46.4	46.4	38.7	30.5	9.3	0.0	54.4	54.4	73.9	19.5	19.5

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	31.2	31.5	27.3	31.5	3.0	0.0	30.0	30.3	53.9	23.9	23.6
2*	2400.0	55.8	49.9	27.3	31.5	3.0	0.0	54.6	48.7	53.9	-	-
3	4824.0	47.0	46.3	31.6	30.7	3.9	0.7	52.5	51.8	53.9	1.4	2.1
4	7236.0	30.9	31.0	35.8	31.3	4.5	0.4	40.3	40.4	53.9	13.6	13.5
5	9648.0	31.8	31.9	38.2	32.0	5.4	0.6	44.0	44.1	53.9	9.9	9.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12185.0	NS	NS	41.5	39.8	13.8	0.3	NS	NS	53.9	NS	NS
7	14622.0	NS	NS	42.1	40.9	15.7	0.2	NS	NS	53.9	NS	NS
8	17059.0	NS	NS	44.6	41.9	17.1	1.1	NS	NS	53.9	NS	NS
9	19296.0	NS	NS	37.5	31.7	7.9	0.0	NS	NS	53.9	NS	NS
10	21708.0	NS	NS	38.0	31.5	8.3	0.0	NS	NS	53.9	NS	NS
11	24120.0	34.4	34.4	38.7	30.5	9.3	0.0	42.4	42.4	53.9	11.5	11.5

* 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]			[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2412.0	95.7	91.6	27.3	31.5	3.0	0.0	94.5	90.4	-	-	-
2	2400.0	56.8	51.0	27.3	31.5	3.0	0.0	55.6	49.8	Funda-20dB	18.9	20.6

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 place, 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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FCC ID : S4JS1613-01A

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

UL Japan, Inc.

Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : NEC INFRONTIA CORPORATION
Equipment : Mobile Terminal EX
Model : S1613-01A
Sample No. : #10
Power : AC 120 V / 60 Hz
Mode : WLAN Tx 11b 11Mbps 2437MHz
Remarks : Hor Z-axis , Ver Z-axis, ANT-A

REPORT NO : 27KE0198-HO
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3/1m
DATE : 06/25/2007 06/30/2007
TEMPERATURE : 23deg.C 25deg.C
HUMIDITY : 59% 60%
ENGINEER : Tomotaka Sasagawa Shinya Watanabe

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	1096.9	58.4	46.5	25.0	34.0	1.8	0.0	51.2	39.3	73.9	22.7	34.6
2	4874.0	50.0	48.9	31.7	30.7	3.9	0.7	55.6	54.5	73.9	18.3	19.4
3	7311.0	42.3	42.1	35.9	31.3	4.6	0.4	51.9	51.7	73.9	22.0	22.2
4	9748.0	42.1	42.0	38.2	32.1	5.4	0.6	54.2	54.1	73.9	19.7	19.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	NS	NS	41.5	39.8	13.8	0.3	NS	NS	73.9	NS	NS
6	14622.0	NS	NS	42.1	40.9	15.7	0.2	NS	NS	73.9	NS	NS
7	17059.0	NS	NS	44.6	41.9	17.1	1.1	NS	NS	73.9	NS	NS
8	19496.0	NS	NS	37.5	31.8	7.9	0.0	NS	NS	73.9	NS	NS
9	21933.0	NS	NS	38.2	31.4	8.3	0.0	NS	NS	73.9	NS	NS
10	24370.0	45.9	46.1	38.8	30.3	9.4	0.0	54.3	54.5	73.9	19.6	19.4

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]						[dB]			[dBuV/m]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1096.9	37.2	34.5	25.0	34.0	1.8	0.0	30.0	27.3	53.9	23.9	26.6
2	4874.0	45.8	45.3	31.7	30.7	3.9	0.7	51.4	50.9	53.9	2.5	3.0
3	7311.0	31.0	30.9	35.9	31.3	4.6	0.4	40.6	40.5	53.9	13.3	13.4
4	9748.0	30.9	30.8	38.2	32.1	5.4	0.6	43.0	42.9	53.9	10.9	11.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	NS	NS	41.5	39.8	13.8	0.3	NS	NS	53.9	NS	NS
6	14622.0	NS	NS	42.1	40.9	15.7	0.2	NS	NS	53.9	NS	NS
7	17059.0	NS	NS	44.6	41.9	17.1	1.1	NS	NS	53.9	NS	NS
8	19496.0	NS	NS	37.5	31.8	7.9	0.0	NS	NS	53.9	NS	NS
9	21933.0	NS	NS	38.2	31.4	8.3	0.0	NS	NS	53.9	NS	NS
10	24370.0	34.1	34.1	38.8	30.3	9.4	0.0	42.5	42.5	53.9	11.4	11.4

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.

*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 place, 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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Radiated Spurious Emission(above 1GHz) Tx 11b, Ch:High

UL Japan, Inc.

Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : NEC INFRONTIA CORPORATION
Equipment : Mobile Terminal EX
Model : S1613-01A
Sample No. : #10
Power : AC 120 V / 60 Hz
Mode : WLAN Tx 11b 11Mbps 2462MHz
Remarks : Hor Z-axis , Ver Z-axis, ANT-A

REPORT NO : 27KE0198-HO
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3/1m
DATE : 06/25/2007 06/30/2007
TEMPERATURE : 23deg.C 25deg.C
HUMIDITY : 59% 60%
ENGINEER : Tomotaka Sasagawa Shinya Watanabe

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	45.8	44.2	27.4	31.5	3.1	0.0	44.8	43.2	73.9	29.1	30.7
2	4924.0	49.0	48.0	31.7	30.7	4.0	0.7	54.7	53.7	73.9	19.2	20.2
3	7386.0	42.0	41.9	36.0	31.3	4.6	0.5	51.8	51.7	73.9	22.1	22.2
4	9848.0	42.3	42.2	38.2	32.1	5.4	0.6	54.4	54.3	73.9	19.5	19.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	NS	NS	41.5	39.8	13.8	0.3	NS	NS	73.9	NS	NS
6	14622.0	NS	NS	42.1	40.9	15.7	0.2	NS	NS	73.9	NS	NS
7	17059.0	NS	NS	44.6	41.9	17.1	1.1	NS	NS	73.9	NS	NS
8	19696.0	NS	NS	37.5	31.8	8.0	0.0	NS	NS	73.9	NS	NS
9	22158.0	NS	NS	38.3	31.3	8.4	0.0	NS	NS	73.9	NS	NS
10	24620.0	46.9	47.3	38.8	30.2	9.4	0.0	55.4	55.8	73.9	18.5	18.1

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	33.2	32.4	27.4	31.5	3.1	0.0	32.2	31.4	53.9	21.7	22.5
2	4924.0	45.8	42.7	31.7	30.7	4.0	0.7	51.5	48.4	53.9	2.4	5.5
3	7386.0	31.2	30.9	36.0	31.3	4.6	0.5	41.0	40.7	53.9	12.9	13.2
4	9848.0	31.9	31.0	38.2	32.1	5.4	0.6	44.0	43.1	53.9	9.9	10.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	NS	NS	41.5	39.8	13.8	0.3	NS	NS	53.9	NS	NS
6	14622.0	NS	NS	42.1	40.9	15.7	0.2	NS	NS	53.9	NS	NS
7	17059.0	NS	NS	44.6	41.9	17.1	1.1	NS	NS	53.9	NS	NS
8	19696.0	NS	NS	37.5	31.8	8.0	0.0	NS	NS	53.9	NS	NS
9	22158.0	NS	NS	38.3	31.3	8.4	0.0	NS	NS	53.9	NS	NS
10	24620.0	35.5	35.5	38.8	30.2	9.4	0.0	44.0	44.0	53.9	9.9	9.9

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 place, 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. : 27KE0198-HO-A
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FCC ID : S4JS1613-01A

Radiated Spurious Emission(above 1GHz)

Rx 11b, Ch:Mid

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

Company : NEC INFRONTIA CORPORATION
Equipment : Mobile Terminal EX
Model : S1613-01A
Sample No. : #9
Power : AC 120 V / 60 Hz
Mode : WLAN Rx 11b 2437MHz
Remarks : Hor Z-axis, Ver Z-axis, ANT-A

REPORT NO : 27KE0198-HO
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3/1m
DATE : 08/01/2007
TEMPERATURE : 26deg.C
HUMIDITY : 60%
ENGINEER : Shinya Watanabe

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	1096.3	56.4	59.5	25.0	34.0	1.8	0.0	49.2	52.3	73.9	24.7	21.6
2	1362.0	52.6	57.2	25.5	33.1	2.1	0.0	47.1	51.7	73.9	26.8	22.2
3	3249.4	46.1	45.8	28.6	31.2	3.4	0.0	46.9	46.6	73.9	27.0	27.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	4874.0	42.3	42.6	31.7	30.7	3.9	0.0	37.7	38.0	73.9	36.2	35.9
5	7311.0	42.7	43.2	35.9	31.3	4.6	0.0	42.4	42.9	73.9	31.5	31.0

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	1096.3	34.6	38.2	25.0	34.0	1.8	0.0	27.4	31.0	53.9	26.5	22.9
2	1362.0	33.9	36.5	25.5	33.1	2.1	0.0	28.4	31.0	53.9	25.5	22.9
3	3249.4	39.3	37.9	28.6	31.2	3.4	0.0	40.1	38.7	53.9	13.8	15.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	4874.0	29.8	29.7	31.7	30.7	3.9	0.0	25.2	25.1	53.9	28.7	28.8
5	7311.0	30.4	30.4	35.9	31.3	4.6	0.0	30.1	30.1	53.9	23.8	23.8

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 test result is round off to one or two decimal place, 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. : 27KE0198-HO-A
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Issued date : September 7, 2007
FCC ID : S4JS1613-01A

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

Company : NEC INFRONTIA CORPORATION
Equipment : Mobile Terminal EX
Model : S1613-01A
Sample No. : #10
Power : AC 120 V / 60 Hz
Mode : WLAN Tx11g 54Mbps 2412MHz
Remarks : Hor Z-axis, Ver Z-axis, ANT-A

REPORT NO : 27KE0198-HO
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3/1m
DATE : 06/25/2007
TEMPERATURE : 23deg.C
HUMIDITY : 59%
ENGINEER : Tomotaka Sasagawa Shinya Watanabe

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	2390.0	64.7	58.6	27.3	31.5	3.0	0.0	63.5	57.4	73.9	10.4	16.5
2*	2400.0	81.5	77.3	27.3	31.5	3.0	0.0	80.3	76.1	73.9	-	-
3	3215.9	47.6	47.0	28.6	31.2	3.4	0.0	48.4	47.8	73.9	25.5	26.1
4	4824.0	49.4	47.9	31.6	30.7	3.9	0.7	54.9	53.4	73.9	19.0	20.5
5	7236.0	42.0	42.3	35.8	31.3	4.5	0.4	51.4	51.7	73.9	22.5	22.2
6	9648.0	41.9	42.1	38.2	32.0	5.4	0.6	54.1	54.3	73.9	19.8	19.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12185.0	NS	NS	41.5	39.8	13.8	0.3	NS	NS	73.9	NS	NS
8	14622.0	NS	NS	42.1	40.9	15.7	0.2	NS	NS	73.9	NS	NS
9	17059.0	NS	NS	44.6	41.9	17.1	1.1	NS	NS	73.9	NS	NS
10	19296.0	NS	NS	37.5	31.7	7.9	0.0	NS	NS	73.9	NS	NS
11	21708.0	NS	NS	38.0	31.5	8.3	0.0	NS	NS	73.9	NS	NS
12	24120.0	45.8	46.1	38.7	30.5	9.3	0.0	53.8	54.1	73.9	20.1	19.8

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]										
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	46.6	42.3	27.3	31.5	3.0	0.0	45.4	41.1	53.9	8.5	12.8
2*	2400.0	59.8	54.6	27.3	31.5	3.0	0.0	58.6	53.4	53.9	-	-
3	3215.9	44.8	44.1	28.6	31.2	3.4	0.0	45.6	44.9	53.9	8.3	9.0
4	4824.0	35.9	33.9	31.6	30.7	3.9	0.7	41.4	39.4	53.9	12.5	14.5
5	7236.0	31.8	32.0	35.8	31.3	4.5	0.4	41.2	41.4	53.9	12.7	12.5
6	9648.0	31.9	32.1	38.2	32.0	5.4	0.6	44.1	44.3	53.9	9.8	9.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12185.0	NS	NS	41.5	39.8	13.8	0.3	NS	NS	53.9	NS	NS
8	14622.0	NS	NS	42.1	40.9	15.7	0.2	NS	NS	53.9	NS	NS
9	17059.0	NS	NS	44.6	41.9	17.1	1.1	NS	NS	53.9	NS	NS
10	19296.0	NS	NS	37.5	31.7	7.9	0.0	NS	NS	53.9	NS	NS
11	21708.0	NS	NS	38.0	31.5	8.3	0.0	NS	NS	53.9	NS	NS
12	24120.0	34.8	34.8	38.7	30.5	9.3	0.0	42.8	42.8	53.9	11.1	11.1

* 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]			[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2412.0	95.5	91.1	27.3	31.5	3.0	0.0	94.3	89.9	-	-	-
2	2400.0	65.8	61.6	27.3	31.5	3.0	0.0	64.6	60.4	Funda-20dB	9.7	9.5

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

UL Japan, Inc.

Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : NEC INFRONTIA CORPORATION
Equipment : Mobile Terminal EX
Model : S1613-01A
Sample No. : #10
Power : AC 120 V / 60 Hz
Mode : WLAN Tx 11g 54Mbps 2437MHz
Remarks : Hor Z-axis , Ver Z-axis, ANT-A

REPORT NO : 27KE0198-HO
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3/1m
DATE : 06/25/2007 06/30/2007
TEMPERATURE : 23deg.C 25deg.C
HUMIDITY : 59% 60%
ENGINEER : Tomotaka Sasagawa Shinya Watanabe

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	48.2	46.4	31.7	30.7	3.9	0.7	53.8	52.0	73.9	20.1	21.9
2	7311.0	42.3	42.3	35.9	31.3	4.6	0.4	51.9	51.9	73.9	22.0	22.0
3	9748.0	42.1	42.3	38.2	32.1	5.4	0.6	54.2	54.4	73.9	19.7	19.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	NS	NS	41.5	39.8	13.8	0.3	NS	NS	73.9	NS	NS
5	14622.0	NS	NS	42.1	40.9	15.7	0.2	NS	NS	73.9	NS	NS
6	17059.0	NS	NS	44.6	41.9	17.1	1.1	NS	NS	73.9	NS	NS
7	19496.0	NS	NS	37.5	31.8	7.9	0.0	NS	NS	73.9	NS	NS
8	21933.0	NS	NS	38.2	31.4	8.3	0.0	NS	NS	73.9	NS	NS
9	24370.0	46.8	47.4	38.8	30.3	9.4	0.0	55.2	55.8	73.9	18.7	18.1

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	35.8	34.9	31.7	30.7	3.9	0.7	41.4	40.5	53.9	12.5	13.4
2	7311.0	31.2	32.0	35.9	31.3	4.6	0.4	40.8	41.6	53.9	13.1	12.3
3	9748.0	31.2	31.3	38.2	32.1	5.4	0.6	43.3	43.4	53.9	10.6	10.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	NS	NS	41.5	39.8	13.8	0.3	NS	NS	53.9	NS	NS
5	14622.0	NS	NS	42.1	40.9	15.7	0.2	NS	NS	53.9	NS	NS
6	17059.0	NS	NS	44.6	41.9	17.1	1.1	NS	NS	53.9	NS	NS
7	19496.0	NS	NS	37.5	31.8	7.9	0.0	NS	NS	53.9	NS	NS
8	21933.0	NS	NS	38.2	31.4	8.3	0.0	NS	NS	53.9	NS	NS
9	24370.0	34.9	34.9	38.8	30.3	9.4	0.0	43.3	43.3	53.9	10.6	10.6

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.

*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 place, 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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Radiated Spurious Emission(above 1GHz)

Tx 11g, Ch:High

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

Company : NEC INFRONTIA CORPORATION
Equipment : Mobile Terminal EX
Model : S1613-01A
Sample No. : #10
Power : AC 120 V / 60 Hz
Mode : WLAN Tx 11g 54Mbps 2462MHz
Remarks : Hor Z-axis , Ver Z-axis, ANT-A

REPORT NO : 27KE0198-HO
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3/1m
DATE : 06/25/2007 06/30/2007
TEMPERATURE : 23deg.C 25deg.C
HUMIDITY : 59% 60%
ENGINEER : Tomotaka Sasagawa Shinya Watanabe

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	62.7	61.8	27.4	31.5	3.1	0.0	61.7	60.8	73.9	12.2	13.1
2	4924.0	47.3	46.8	31.7	30.7	4.0	0.7	53.0	52.5	73.9	20.9	21.4
3	7386.0	42.0	41.6	36.0	31.3	4.6	0.5	51.8	51.4	73.9	22.1	22.5
4	9848.0	43.8	42.4	38.2	32.1	5.4	0.6	55.9	54.5	73.9	18.0	19.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	NS	NS	41.5	39.8	13.8	0.3	NS	NS	73.9	NS	NS
6	14622.0	NS	NS	42.1	40.9	15.7	0.2	NS	NS	73.9	NS	NS
7	17059.0	NS	NS	44.6	41.9	17.1	1.1	NS	NS	73.9	NS	NS
8	19696.0	NS	NS	37.5	31.8	8.0	0.0	NS	NS	73.9	NS	NS
9	22158.0	NS	NS	38.3	31.3	8.4	0.0	NS	NS	73.9	NS	NS
10	24620.0	45.2	45.8	38.8	30.2	9.4	0.0	53.7	54.3	73.9	20.2	19.6

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	45.3	43.7	27.4	31.5	3.1	0.0	44.3	42.7	53.9	9.6	11.2
2	4924.0	34.7	34.6	31.7	30.7	4.0	0.7	40.4	40.3	53.9	13.5	13.6
3	7386.0	32.1	31.7	36.0	31.3	4.6	0.5	41.9	41.5	53.9	12.0	12.4
4	9848.0	32.4	31.2	38.2	32.1	5.4	0.6	44.5	43.3	53.9	9.4	10.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	NS	NS	41.5	39.8	13.8	0.3	NS	NS	53.9	NS	NS
6	14622.0	NS	NS	42.1	40.9	15.7	0.2	NS	NS	53.9	NS	NS
7	17059.0	NS	NS	44.6	41.9	17.1	1.1	NS	NS	53.9	NS	NS
8	19696.0	NS	NS	37.5	31.8	8.0	0.0	NS	NS	53.9	NS	NS
9	22158.0	NS	NS	38.3	31.3	8.4	0.0	NS	NS	53.9	NS	NS
10	24620.0	34.0	34.0	38.8	30.2	9.4	0.0	42.5	42.5	53.9	11.4	11.4

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 place, 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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Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
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Test report No. : 27KE0198-HO-A
Page : 53 of 75
Issued date : September 7, 2007
FCC ID : S4JS1613-01A

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

Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : NEC INFRONTIA CORPORATION
Equipment : Mobile Terminal EX
Model : S1613-01A
Sample No. : #9
Power : AC 120 V / 60 Hz
Mode : WLAN Rx 11g 2437MHz
Remarks : Hor Z-axis, Ver Z-axis, ANT-A

REPORT NO : 27KE0198-HO
REGULATION : FCC15.247(d)/RSS-210A8.5
TEST DISTANCE : 3/1m
DATE : 08/01/2007
TEMPERATURE : 26deg.C
HUMIDITY : 60%
ENGINEER : Shinya Watanabe

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	1096.6	58.4	60.9	25.0	34.0	1.8	0.0	51.2	53.7	73.9	22.7	20.2
2	1360.5	54.5	57.1	25.5	33.1	2.1	0.0	49.0	51.6	73.9	24.9	22.3
3	3249.4	46.3	45.6	28.6	31.2	3.4	0.0	47.1	46.4	73.9	26.8	27.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	4874.0	41.9	41.6	31.7	30.7	3.9	0.0	37.3	37.0	73.9	36.6	36.9
5	7311.0	42.0	42.7	35.9	31.3	4.6	0.0	41.7	42.4	73.9	32.2	31.5

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	1096.6	36.0	36.7	25.0	34.0	1.8	0.0	28.8	29.5	53.9	25.1	24.4
2	1360.5	35.8	37.4	25.5	33.1	2.1	0.0	30.3	31.9	53.9	23.6	22.0
3	3249.4	39.6	37.8	28.6	31.2	3.4	0.0	40.4	38.6	53.9	13.5	15.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	4874.0	29.8	29.7	31.7	30.7	3.9	0.0	25.2	25.1	53.9	28.7	28.8
5	7311.0	30.4	30.3	35.9	31.3	4.6	0.0	30.1	30.0	53.9	23.8	23.9

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

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

Radiated Spurious Emission(above 1GHz)

Tx 11a, Ch: 165 (5825MHz)

UL Japan, Inc.

Company	: NEC INFRONTIA CORPORATION				Head Office EMC Lab. No.3Semi Anechoic Chamber			
Equipment	: Mobile Terminal EX				REPORT NO : 27KE0198-HO			
Model	: S1613-01A				REGULATION : FCC15.247(d)/RSS-210A8.5			
Sample No.	: #10				TEST DISTANCE : 3/1/0.3m			
Power	: AC 120 V / 60 Hz				DATE : 06/25/2007		06/30/2007	
Mode	: WLAN Tx 11a 54Mbps 5825MHz				TEMPERATURE : 23deg.C		25deg.C	
Remarks	: Hor Y-axis , Ver Y-axis, ANT-A				HUMIDITY : 59%		60%	
PK DETECT	(RBW: 1MHz, VBW: 1MHz)				ENGINEER :Tomotaka Sasagawa		Shinya Watanabe	

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]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	3883.2	46.0	44.5	29.6	30.9	3.6	0.0	48.3	46.8	73.9	25.6	27.1
2	5850.0	47.9	41.5	32.5	30.6	4.2	0.0	54.0	47.6	73.9	19.9	26.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
3	11650.0	52.2	51.2	39.5	32.4	6.5	0.0	56.3	55.3	73.9	17.6	18.6
4	17475.0	44.6	43.2	44.3	31.0	7.5	0.0	55.9	54.5	73.9	18.0	19.4
5	23300.0	44.0	44.1	38.7	31.2	9.0	0.0	51.0	51.1	73.9	22.9	22.8
6	29125.0	NS	NS	40.0	29.5	7.4	0.0	NS	NS	73.9	NS	NS
Test distance 0.3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	34950.0	52.1	51.9	40.7	28.0	8.4	0.0	53.2	53.0	73.9	20.7	20.9

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
	[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	3883.2	37.8	36.2	29.6	30.9	3.6	0.0	40.1	38.5	53.9	13.8	15.4
2	5850.0	31.8	31.2	32.5	30.6	4.2	0.0	37.9	37.3	53.9	16.0	16.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
3	11650.0	40.8	39.8	39.5	32.4	6.5	0.0	44.9	43.9	53.9	9.0	10.0
4	17475.0	35.0	34.8	44.3	31.0	7.5	0.0	46.3	46.1	53.9	7.6	7.8
5	23300.0	32.5	32.5	38.7	31.2	9.0	0.0	39.5	39.5	53.9	14.4	14.4
6	29125.0	NS	NS	40.0	29.5	7.4	0.0	NS	NS	53.9	NS	NS
Test distance 0.3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	34950.0	37.6	37.6	40.7	28.0	8.4	0.0	38.7	38.7	53.9	15.2	15.2

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
0.3m : Distance Factor(Dfac) = 20log(3/0.3) = 20dB

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

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

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

*NS: Non Signal

Test report No. : 27KE0198-HO-A
Page : 55 of 75
Issued date : September 7, 2007
FCC ID : S4JS1613-01A

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

Company

: NEC INFRONTIA CORPORATION

Equipment

: Mobile Terminal EX

Model

: S1613-01A

Sample No.

: #10

Power

: AC 120 V / 60 Hz

Mode

: WLAN Rx 11a 5825MHz

Remarks

: Hor Y-axis , Ver Y-axis, ANT-A

PK DETECT

(RBW: 1MHz, VBW: 1MHz)

UL Japan, Inc.

Head Office EMC Lab. No.2Semi Anechoic Chamber

REPORT NO

: 27KE0198-HO

REGULATION

: FCC15.247(d)/RSS-210A8.5

TEST DISTANCE

: 3/0.5m

DATE

: 08/02/2007

TEMPERATURE

: 23deg C

HUMIDITY

: 66%

ENGINEER

: Shinya Watanabe

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]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss																	
1	1080.0	53.6	53.5	24.4	41.2	1.9	0.0	38.7	38.6	73.9	35.2	35.3					
2	1440.1	55.4	54.6	25.6	41.2	2.3	0.0	42.1	41.3	73.9	31.8	32.6					
3	3883.4	56.7	58.4	29.5	41.6	4.0	0.0	48.6	50.3	73.9	25.3	23.6					
4	7766.7	52.3	53.1	36.5	41.1	5.6	0.0	53.3	54.1	73.9	20.6	19.8					
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac																	
5	11650.0	50.2	49.4	39.9	40.3	6.8	0.0	41.0	40.2	73.9	32.9	33.7					
6	17475.0	49.5	49.0	44.7	41.3	8.8	0.0	46.1	45.6	73.9	27.8	28.3					

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]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss																	
1	1080.0	42.4	41.4	24.4	41.2	1.9	0.0	27.5	26.5	53.9	26.4	27.4					
2	1440.1	44.4	43.1	25.6	41.2	2.3	0.0	31.1	29.8	53.9	22.8	24.1					
3	3883.4	50.8	53.6	29.5	41.6	4.0	0.0	42.7	45.5	53.9	11.2	8.4					
4	7766.7	43.3	45.7	36.5	41.1	5.6	0.0	44.3	46.7	53.9	9.6	7.2					
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac																	
5	11650.0	36.0	35.8	39.9	40.3	6.8	0.0	26.8	26.6	53.9	27.1	27.3					
6	17475.0	35.3	35.1	44.7	41.3	8.8	0.0	31.9	31.7	53.9	22.0	22.2					

Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.6dB

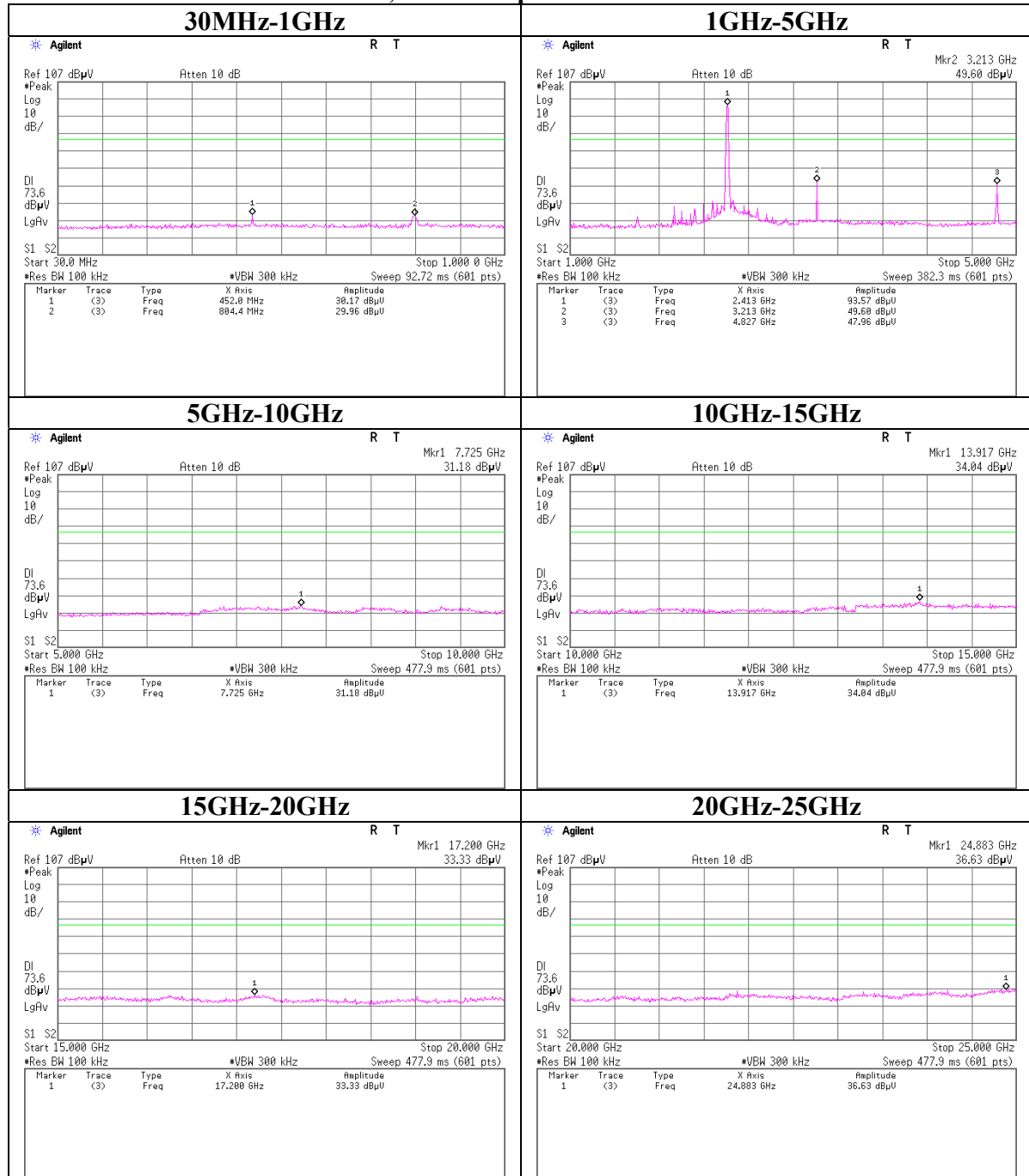
*Except for the above table : All other spurious emissions were less than 20dB for the limit.

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

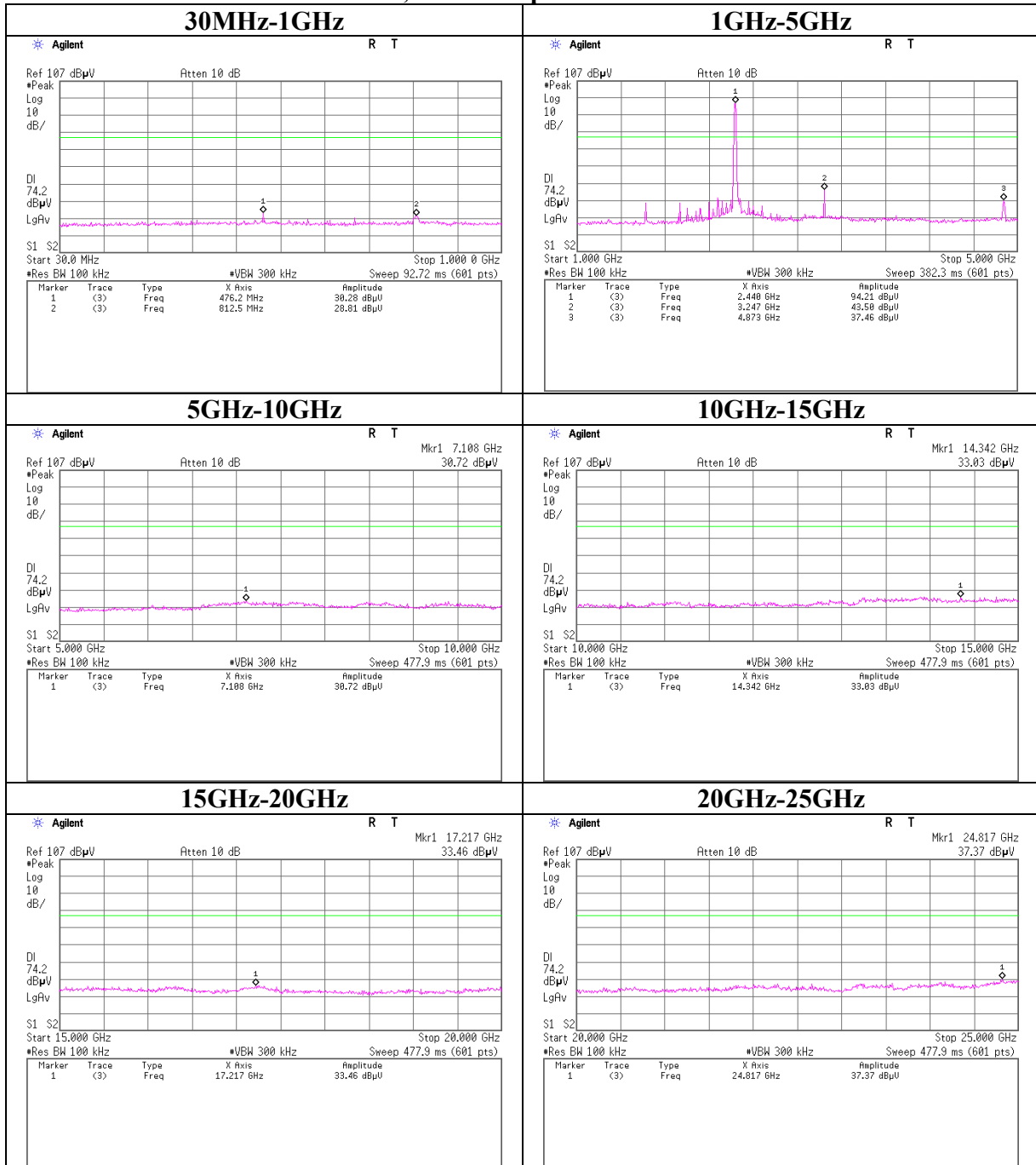
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

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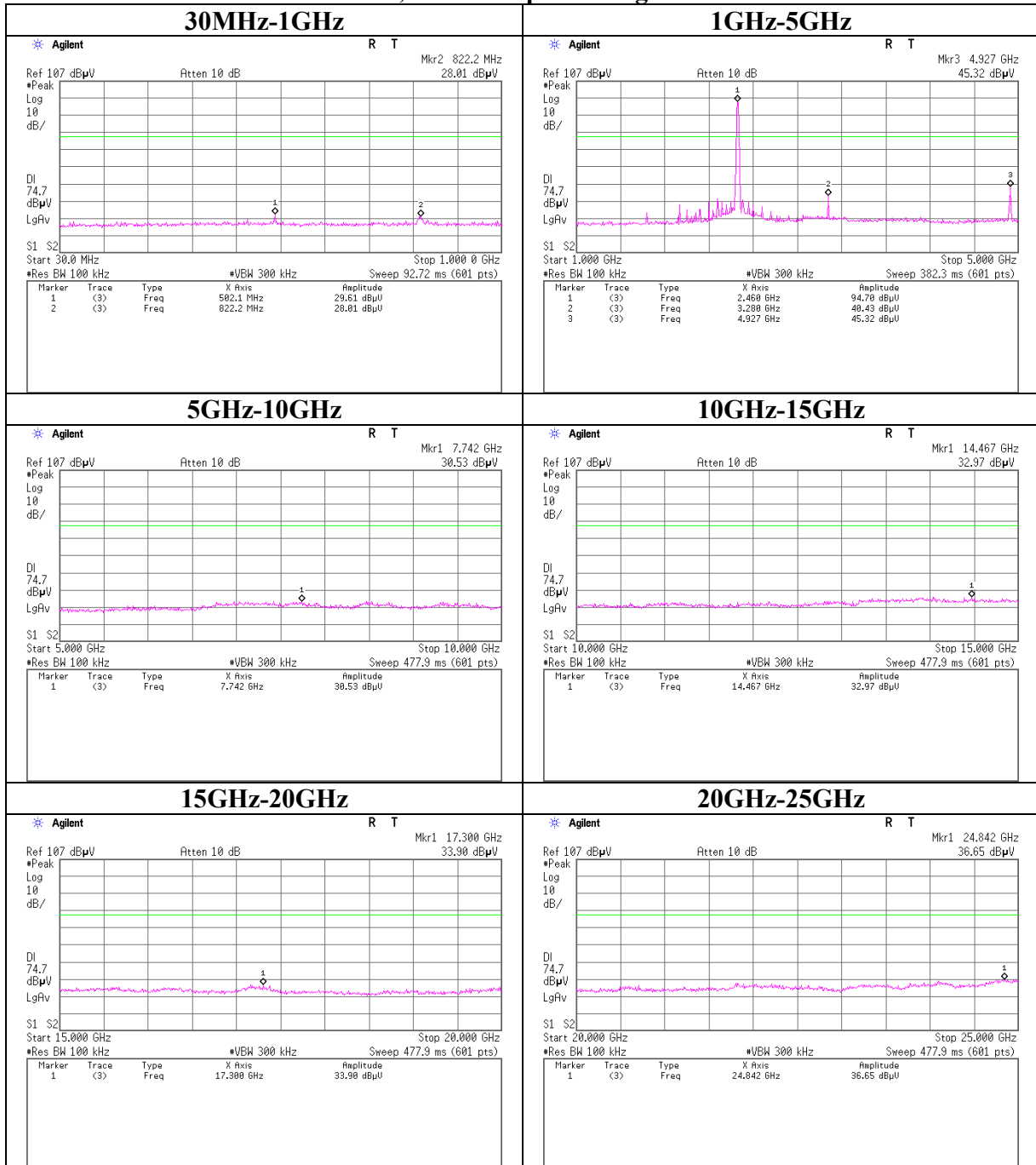
Conducted Spurious Emission
Tx, 11b 11Mbps Ch: Low ANT-A



Conducted Spurious Emission
Tx, 11b 11Mbps Ch: Mid ANT-A

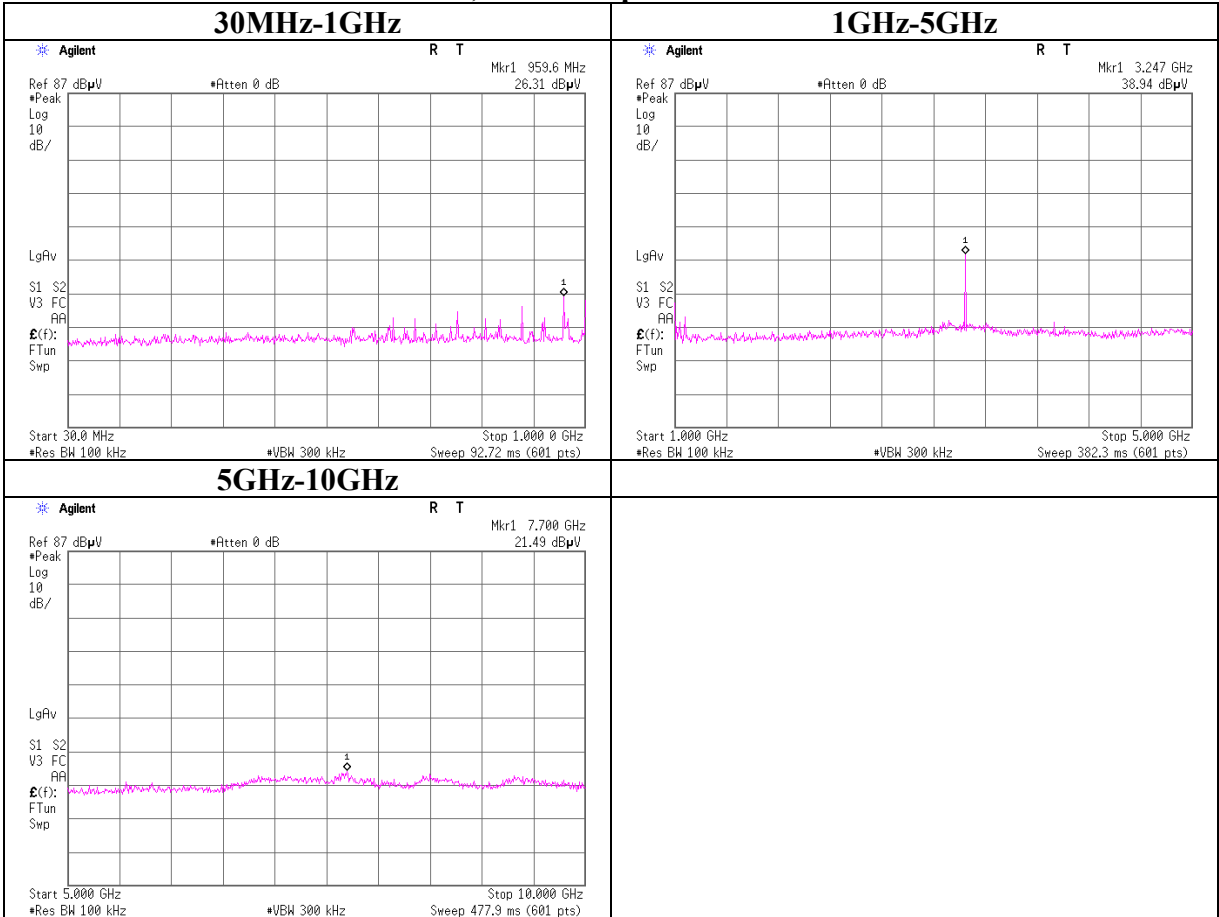


Conducted Spurious Emission
Tx, 11b 11Mbps Ch: High ANT-A

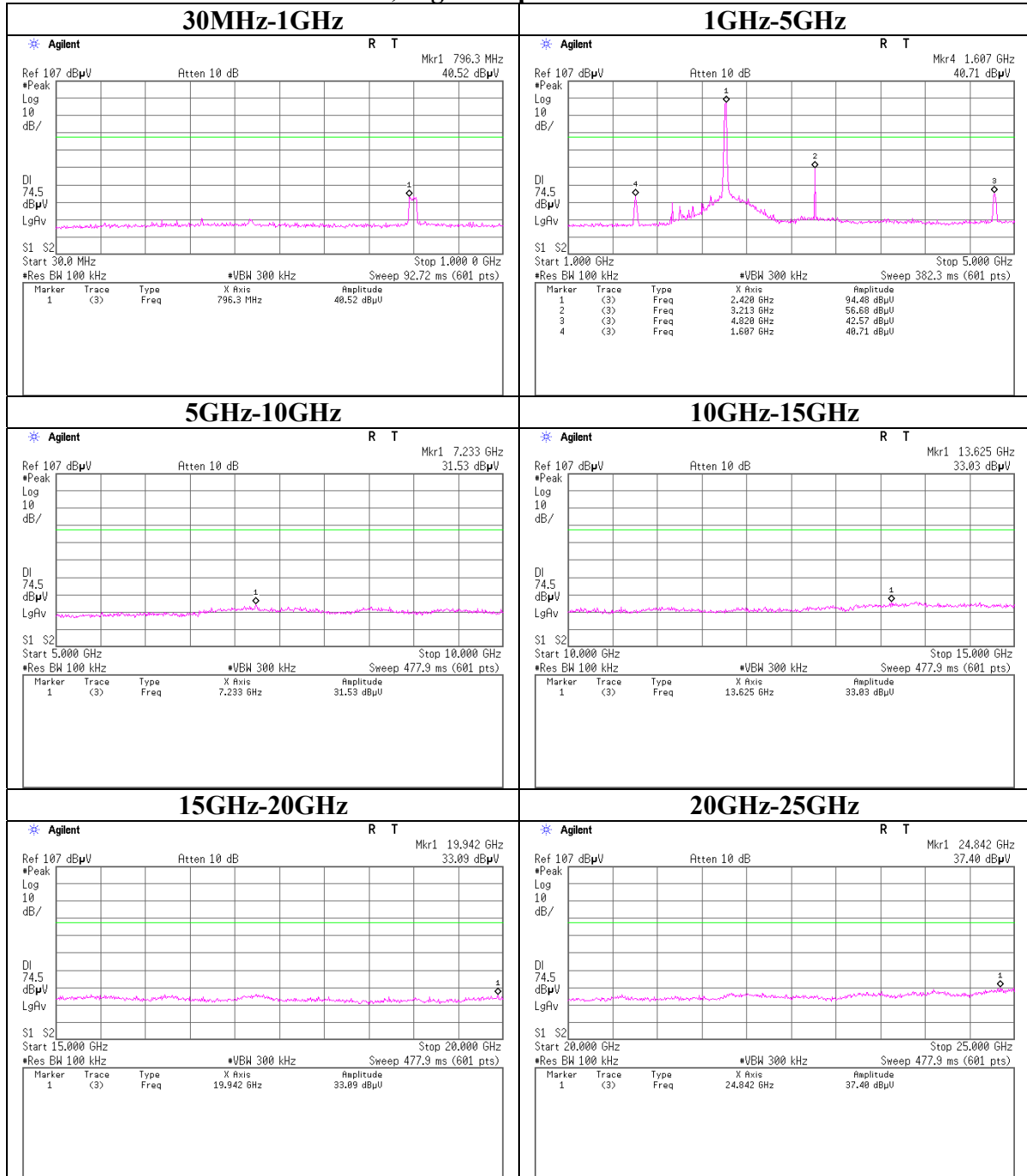


Conducted Spurious Emission

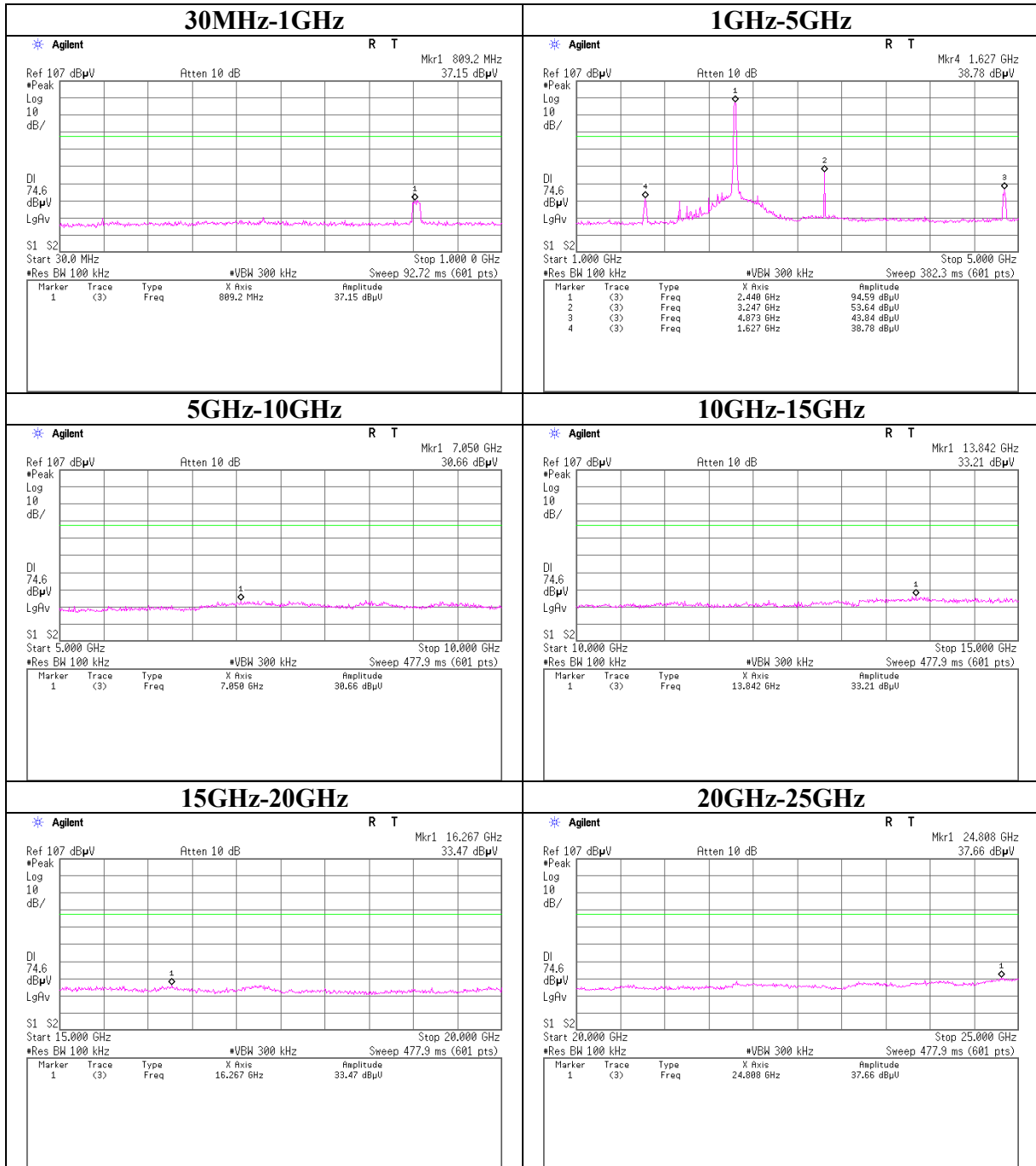
Rx, 11b 11Mbps Ch: Mid ANT-A



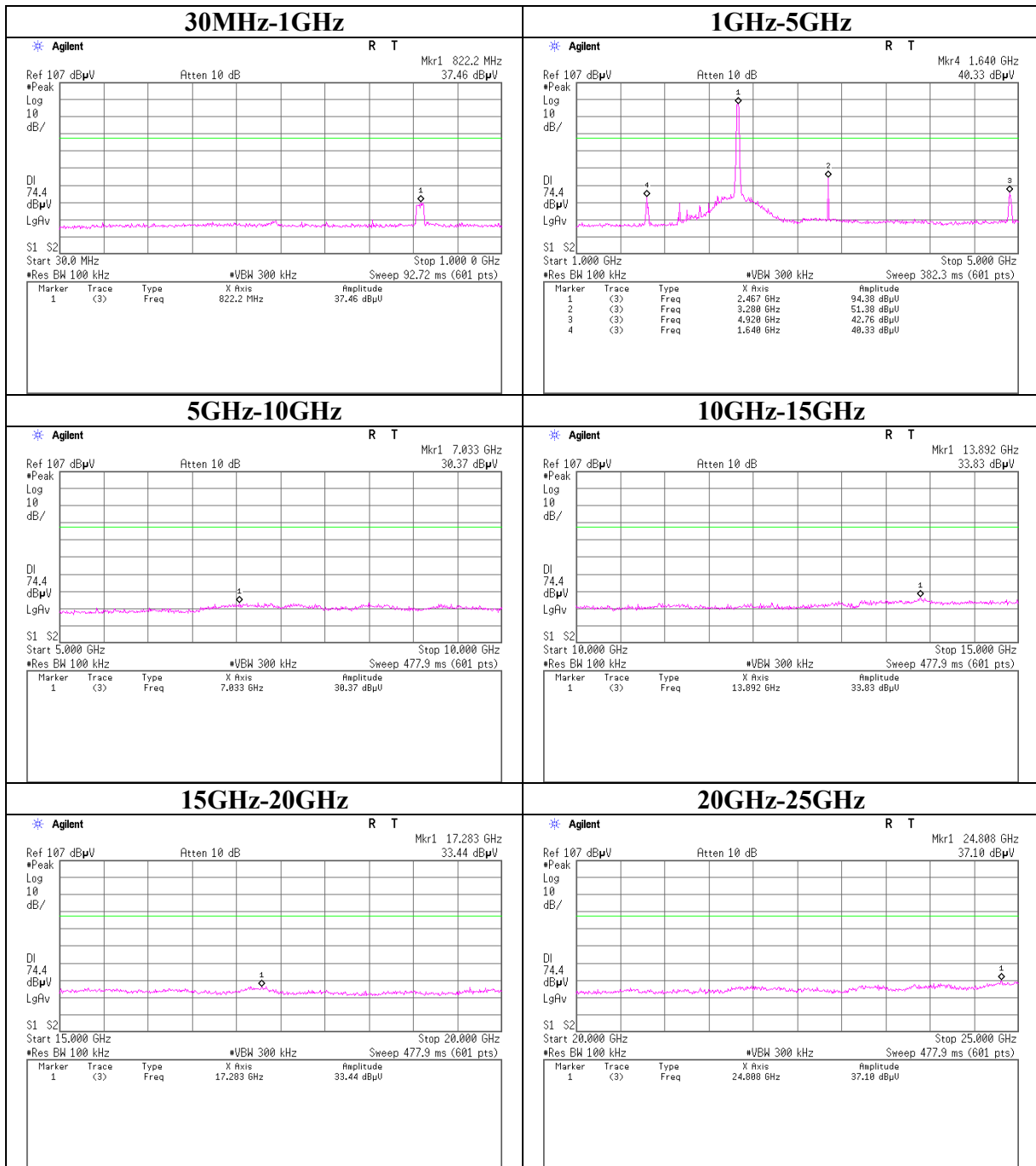
Conducted Spurious Emission
Tx, 11g 54Mbps Ch: Low ANT-A



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

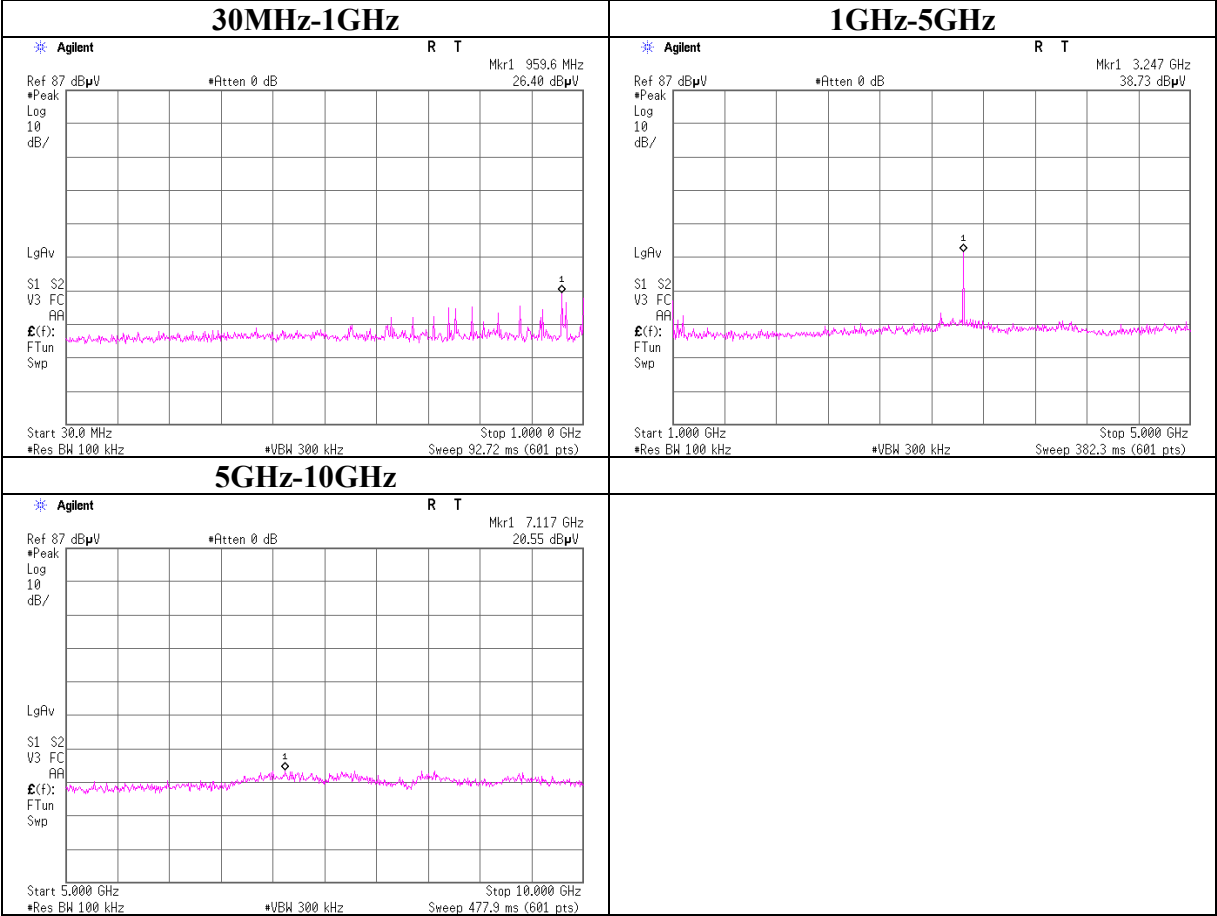


Conducted Spurious Emission
Tx, 11g 54Mbps Ch: High ANT-A

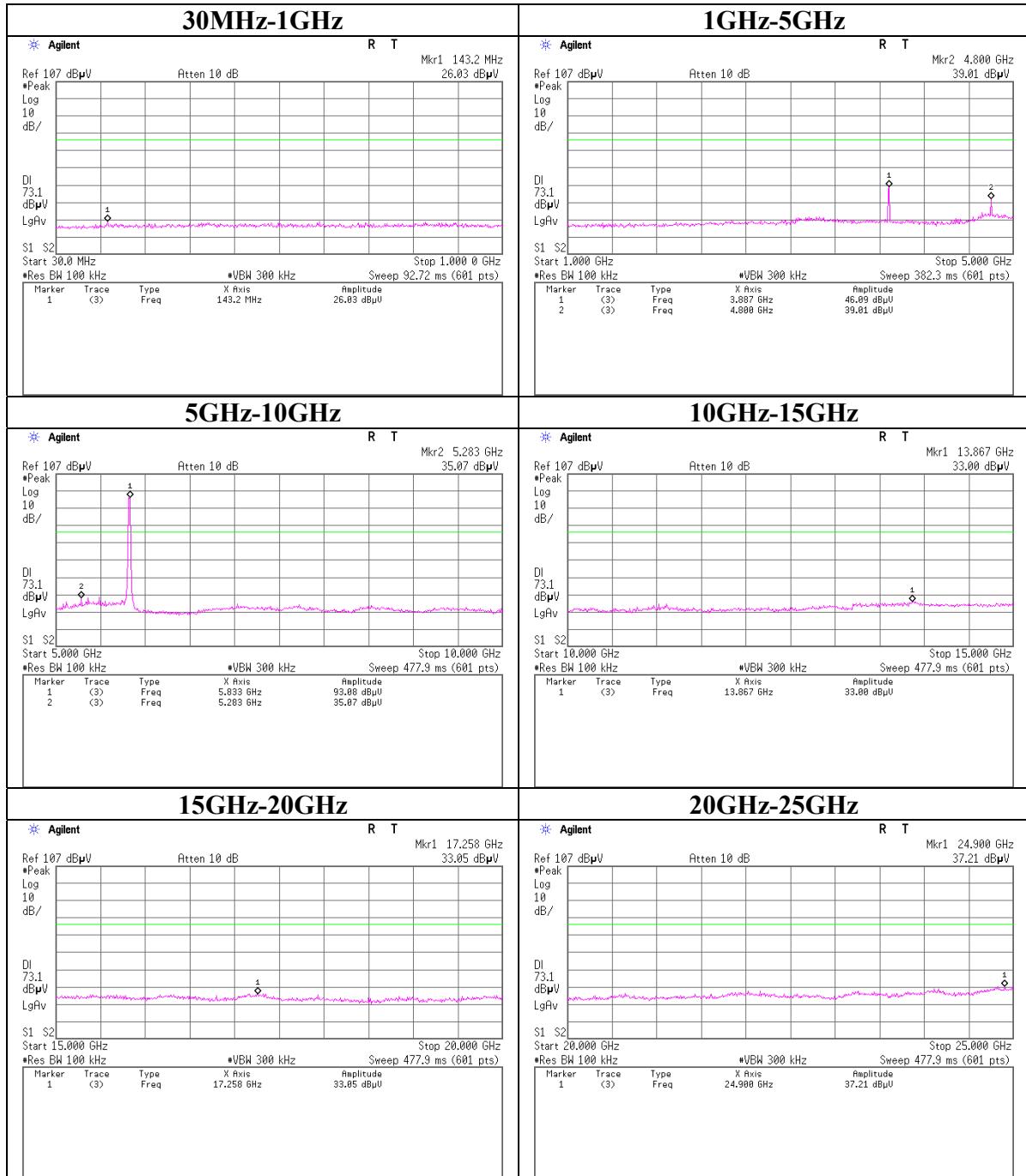


Conducted Spurious Emission

Rx, 11g 54Mbps Ch: Mid ANT-A

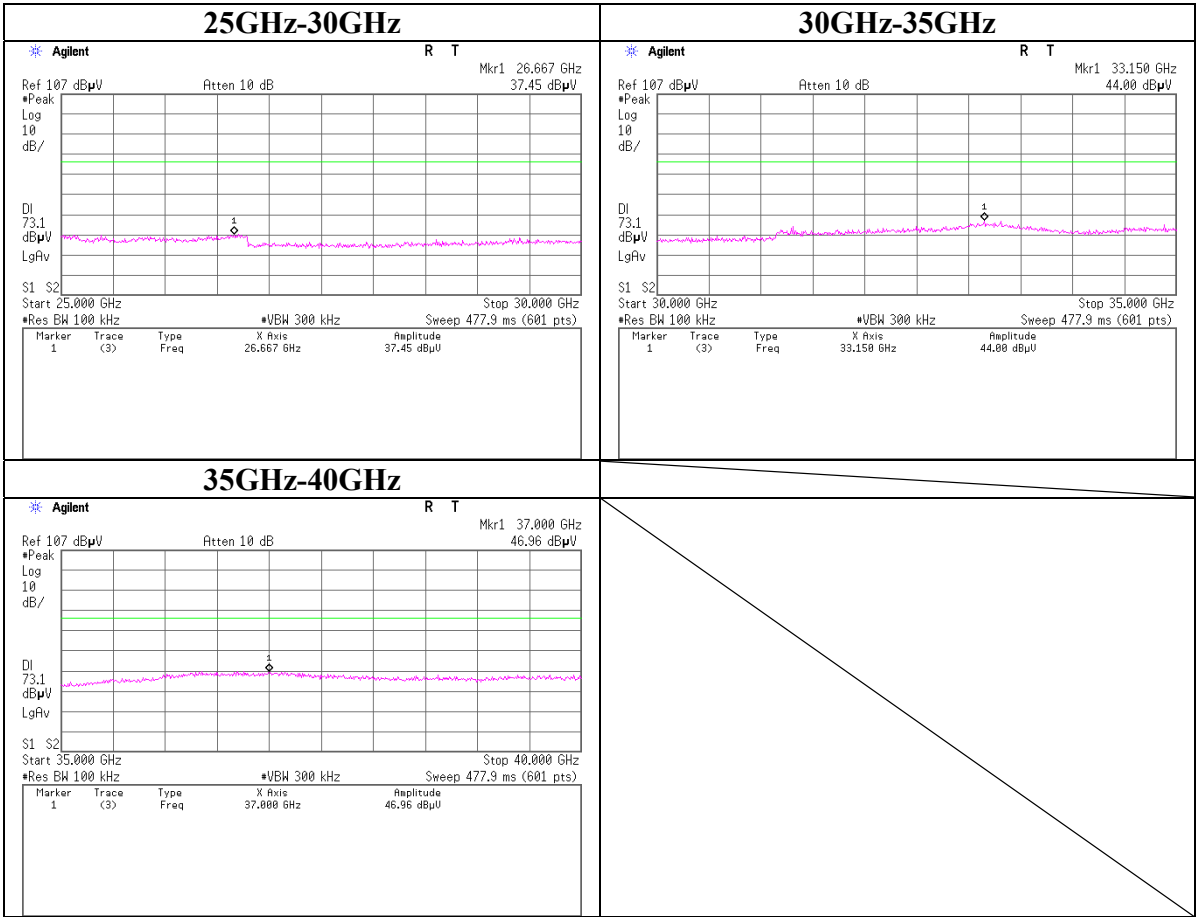


Conducted Spurious Emission
Tx, 11a 54Mbps Ch: 165 (5825MHz) ANT-A

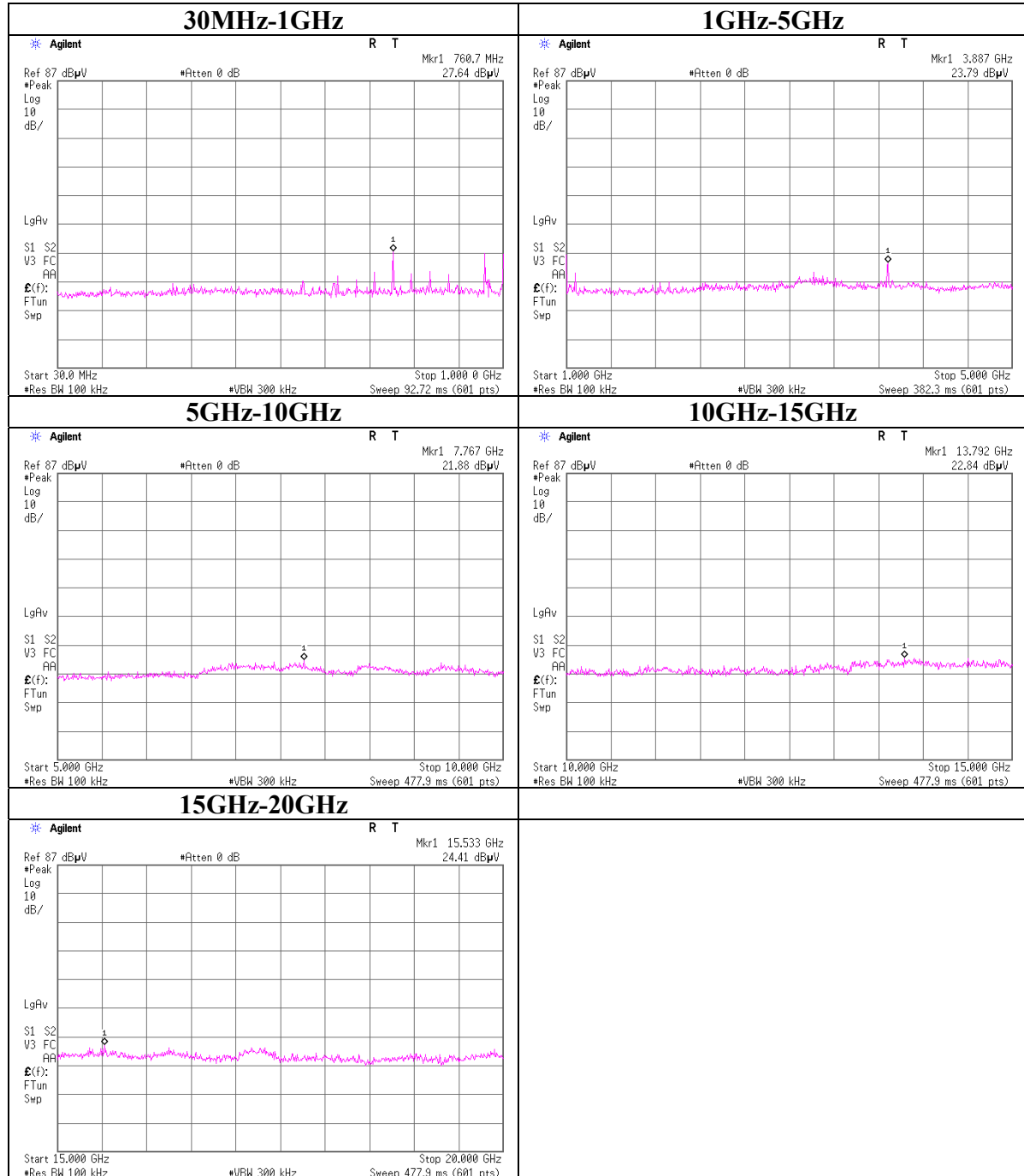


Conducted Spurious Emission

Tx, 11a 54Mbps Ch: 165 (5825MHz) ANT-A

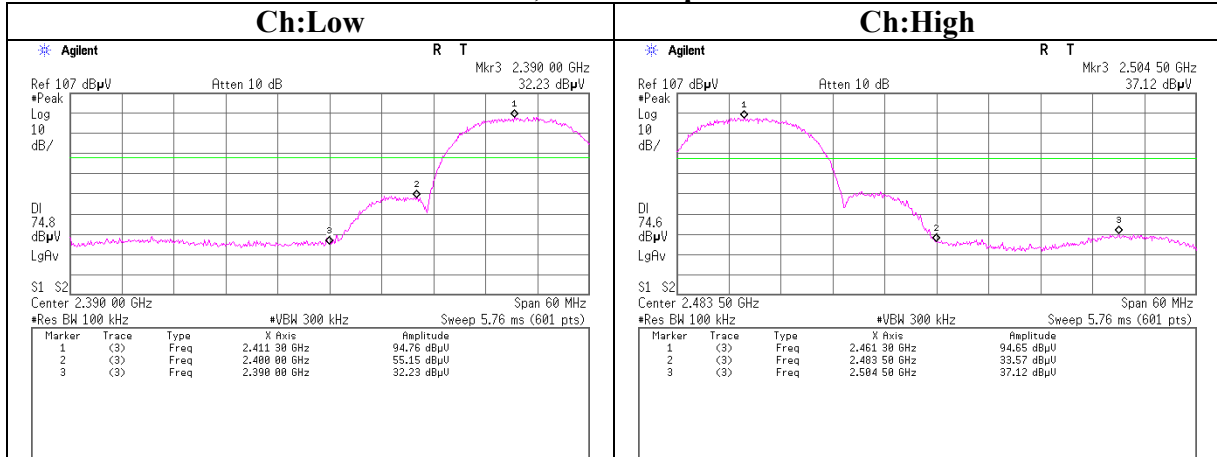


Conducted Spurious Emission
Rx, 11a 54Mbps Ch: 165 (5825MHz) ANT-A

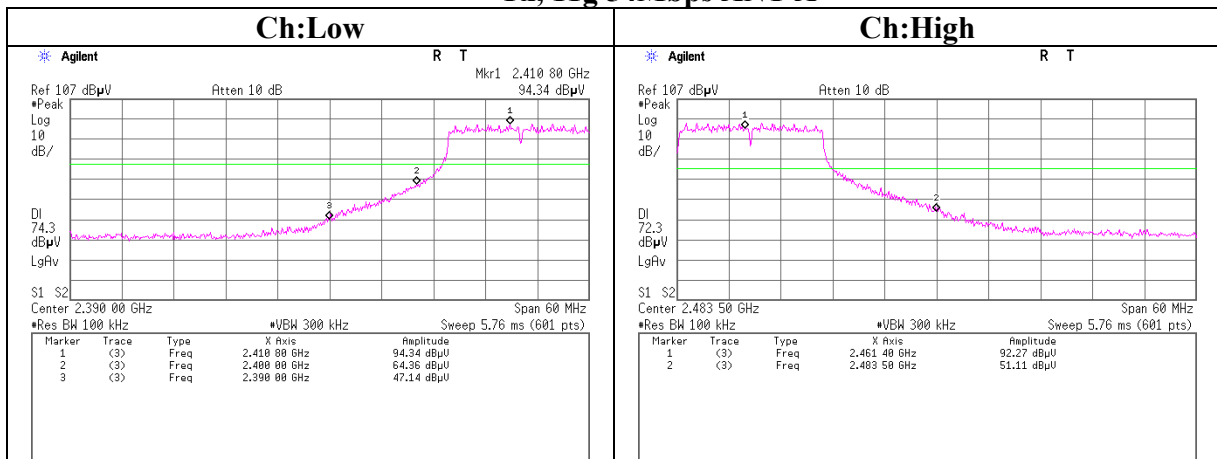


Conducted emission Band Edge compliance

Tx, 11b 11Mbps ANT-A

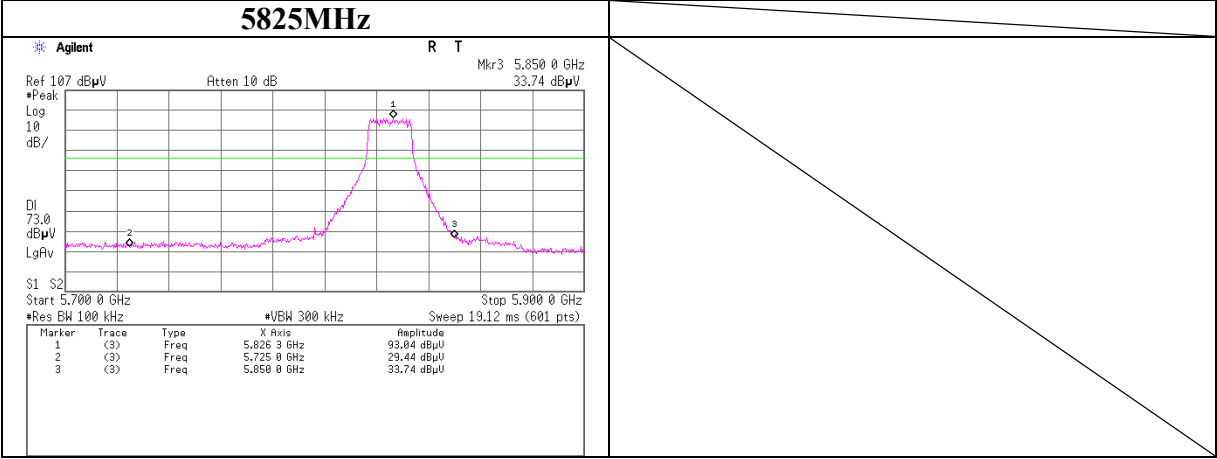


Tx, 11g 54Mbps ANT A



Conducted emission Band Edge compliance

Tx 11a 54Mbps ANT-A



Power Density

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

COMPANY	: NEC INFRONTIA CORPORATION	REGULATION	: FCC15.247(e)/RSS-210A8.2(b)
EQUIPMENT	: Mobile Terminal EX	TEST DISTANCE	: -
MODEL	: S1613-01A	DATE	: 06/27/2007
SAMPLE NO.	: #10	TEMPERATURE	: 25 deg.C.
POWER	: AC120V/60Hz	HUMIDITY	: 62%
MODE	: WLNA Tx 11b/11g/11a	ENGINEER	: Takahiro Hatakeda

[IEEE802.11b] ANT-A, 11Mbps

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2412.4	-22.31	1.9	10.0	-10.4	8.0	18.4
Mid	2435.6	-22.84	1.9	10.0	-10.9	8.0	18.9
High	2462.4	-21.83	1.9	10.0	-9.9	8.0	17.9

[IEEE802.11g] ANT-A, 54Mbps

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2415.5	-25.91	1.9	10.0	-14.0	8.0	22.0
Mid	2435.4	-26.23	1.9	10.0	-14.3	8.0	22.3
High	2458.2	-25.83	1.9	10.0	-13.9	8.0	21.9

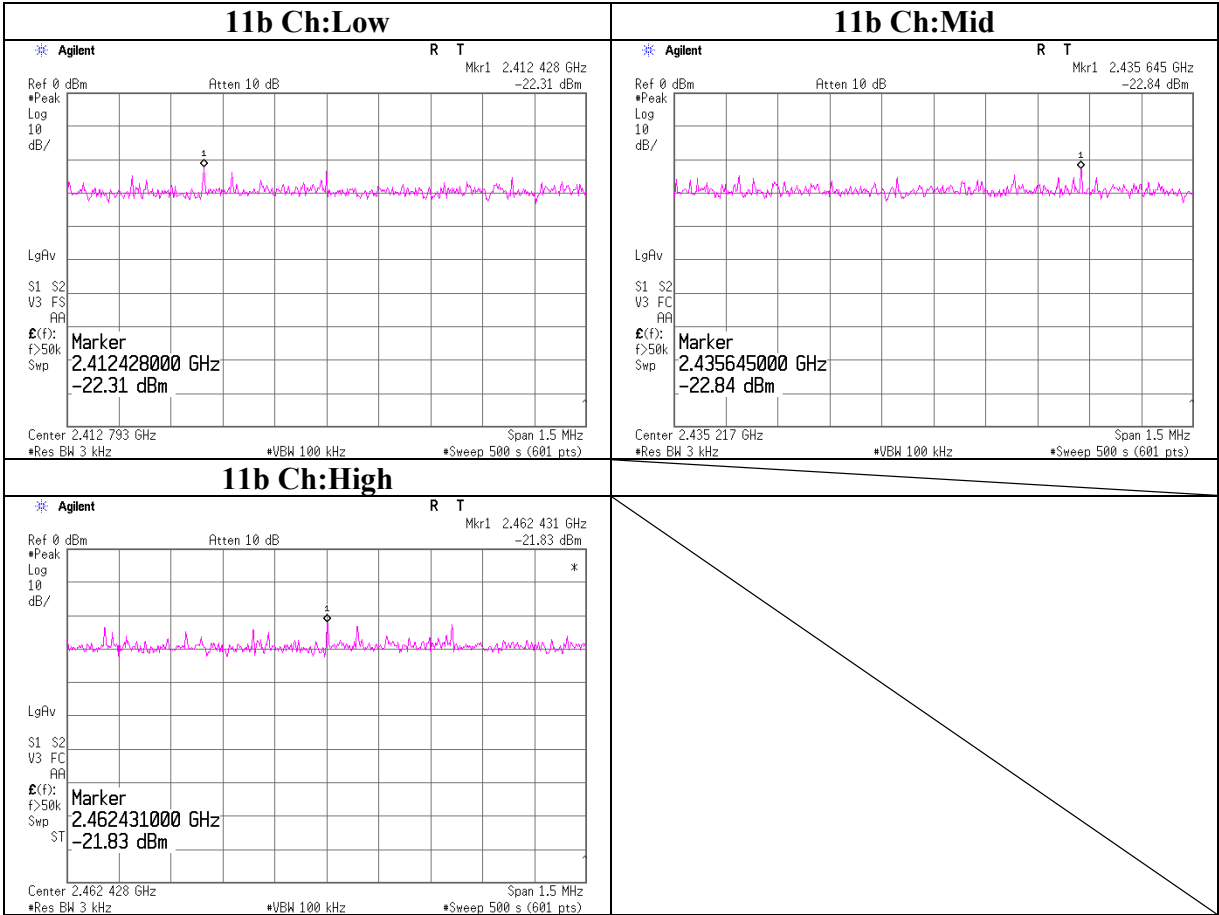
[IEEE802.11a] ANT-A, 54Mbps

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
165	5827.5	-26.68	3.2	10.1	-13.4	8.0	21.4

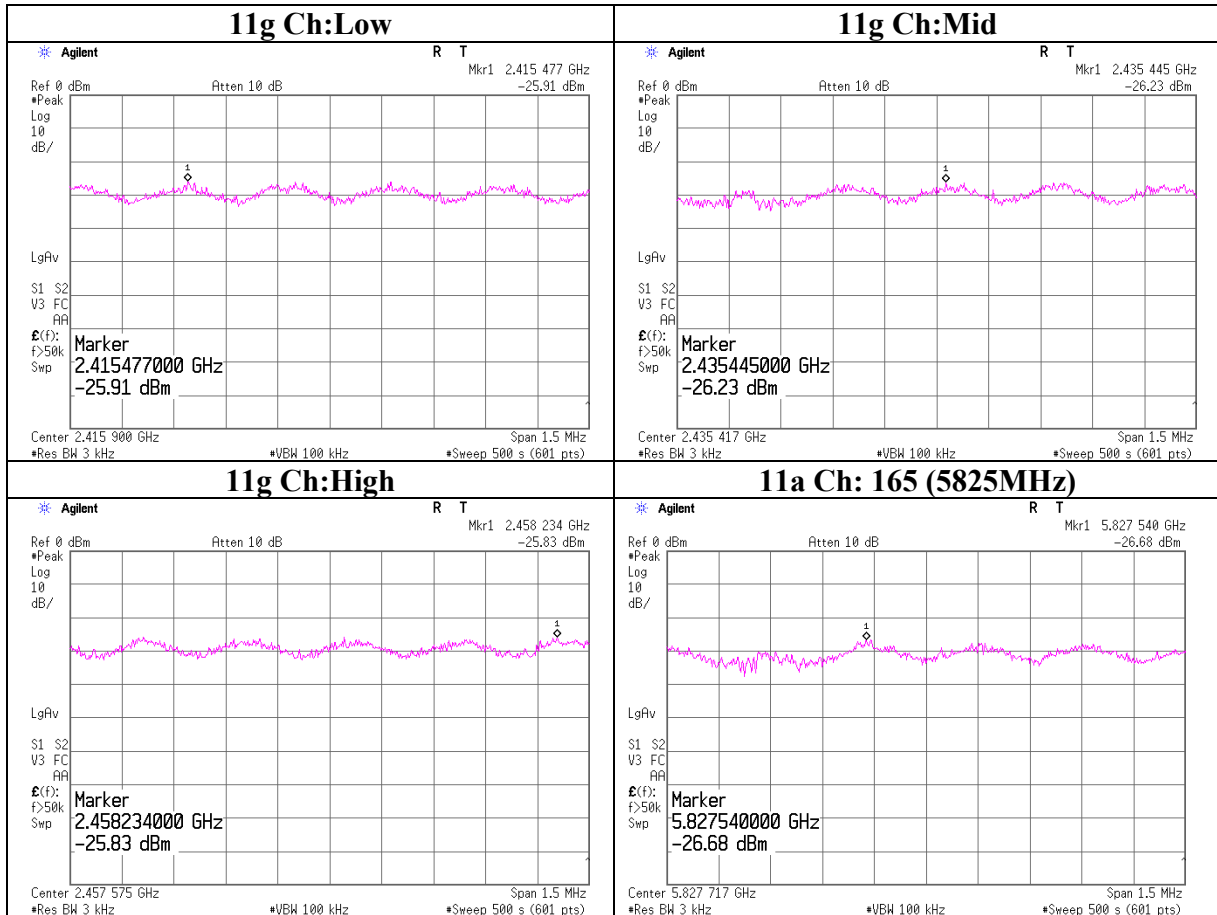
Sample Calculation:

Result = Reading + Cable Loss + Attenuator

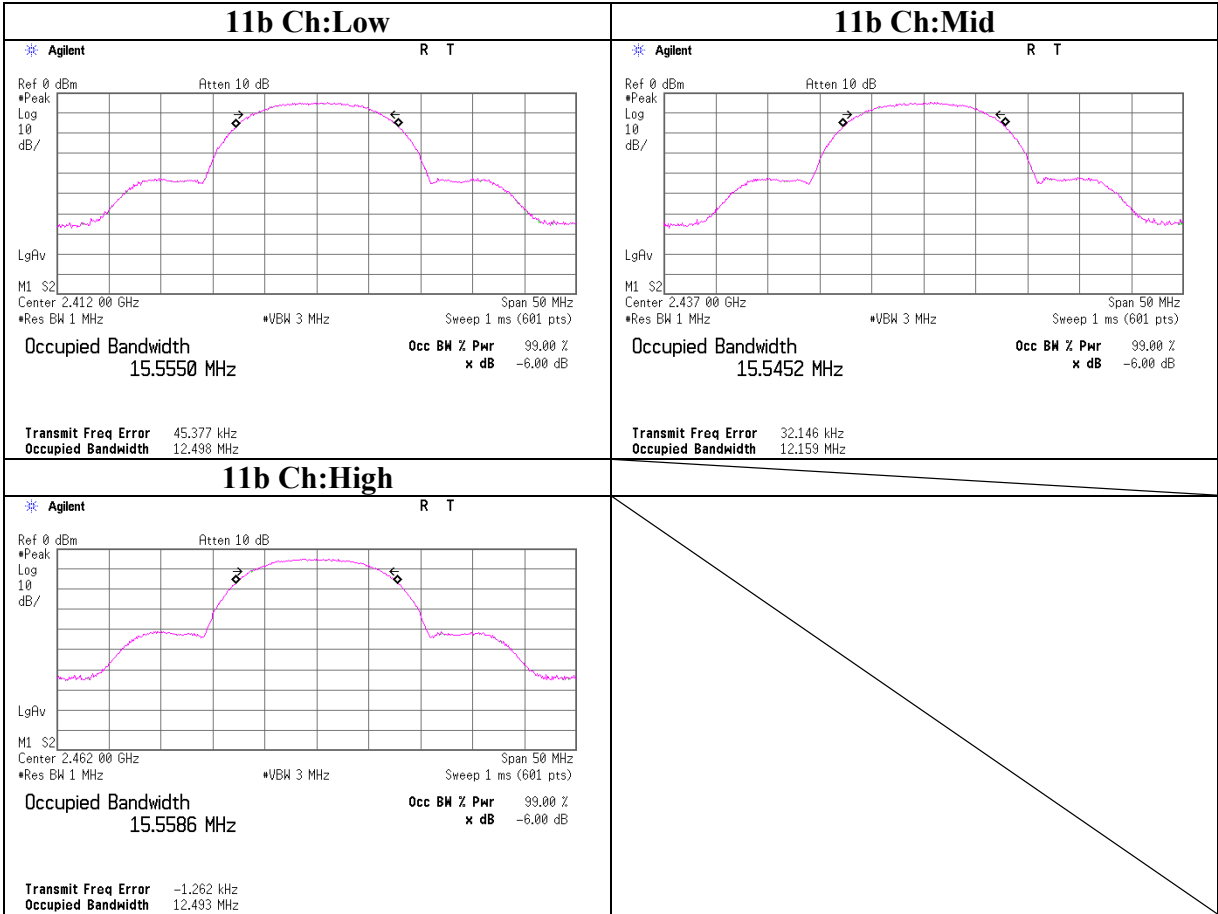
Power Density



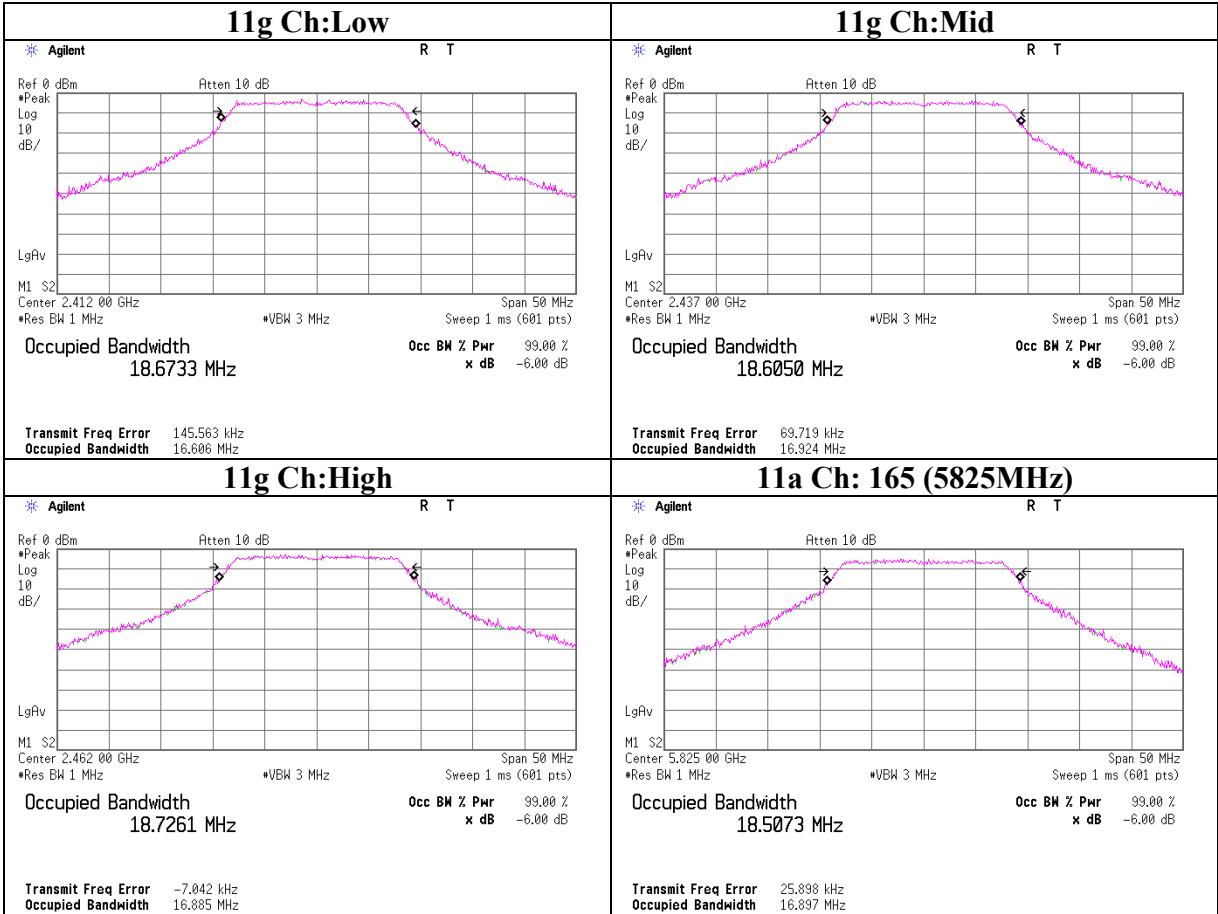
Power Density



99%Occupied Bandwidth



99%Occupied Bandwidth



APPENDIX 3:Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2007/02/22 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE (AE)	2007/02/22 * 12
MTA-07	Terminator	MCL	BTRM-50	CE	2007/02/01 * 12
MTR-02	Test Receiver	Rohde & Schwarz	ESCS30	CE/RE	2007/02/03 * 12
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE/CE	2007/03/05 * 12
MOS-12	Thermo-Hygrometer	Custom	CTH-180	RE/CE	2006/01/19 * 24
MJM-06	Measure	PROMART	SEN1955	RE/CE	-
MSA-09	Spectrum Analyzer	Advantest	R3273	RE/CE	2006/12/08 * 12
MHA-16	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	RE	2007/04/06 * 12
MCC-56	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2007/03/29 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	RE	2007/03/02 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	RE	2007/06/20 * 12
MCC-63	Microwave Cable 1G-40GHz	Suhner	SUCOFLEX102	RE	2006/09/22 * 12
MPA-17	Pre Amplifier	UNITEK ELECTROBICS INC.	40GHzAMP	RE	2006/12/15 * 12
MLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2007/01/19 * 12
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2007/01/19 * 12
MCC-51	Coaxial cable	UL Japan	-	RE	2007/03/05 * 12
MPA-13	Pre Amplifier	SONOMA INSTRUMENT	310	RE	2007/03/16 * 12
MAT-30	Attenuator(6dB)	TME	UFA-01	RE	2007/03/05 * 12
MPSU-08	Power Supply	NF	ES6000W	RE	Pre Check
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/04/14/ * 12
MJM-06	Measure	PROMART	SEN1955	RE	-
MSA-03	Spectrum Analyzer	Agilent	E4448A	AT	2006/09/13 * 12
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	AT	2007/03/07 * 12
MCC-67	Microwave Cable 1G-40GHz	Schnner	SUCOFLEX102	AT	2007/04/03 * 12
MCC-37	Microwave Cable	Hirose Electric	U.FL-2LP-066-A-(200)	AT	2006/11/13 * 12
MOS-14	Thermo-Hygrometer	Custom	CTH-180	AT	2006/01/19 * 24
MPM-08	Power Meter	Anritsu	ML2495A	AT	2006/09/20 * 12
MPSE-11	Power sensor	Anritsu	MA2411B	AT	2006/09/20 * 12

UL Japan, Inc.

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Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	CE	2007/04/02 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	CE	2006/11/27 * 12
MJM-05	Measure	PROMART	SEN1955	CE	-
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	CE/RE	-
MCC-13	Coaxial Cable	Fujikura/Agilent	-	CE	2007/02/27 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	CE	2007/05/31 * 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.

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