APPENDIX 2: Data of EMI test

Conducted Emission
11b, Tx, Ch:Low

DATA OF CONDUCTED EMISSION TEST

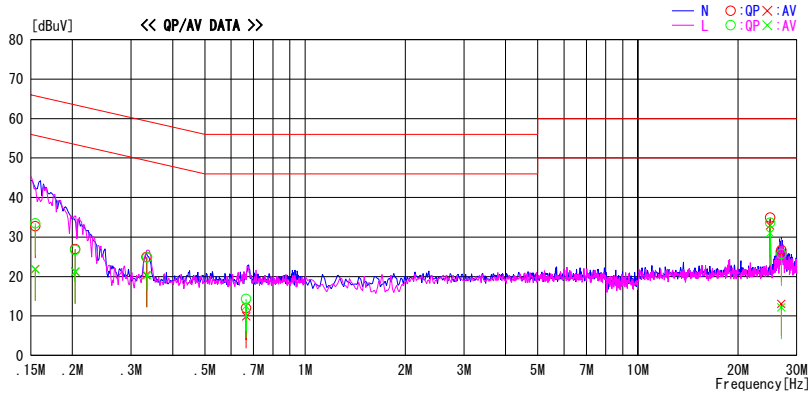
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/22

Company : Nagano Japan Radio Co.,Ltd
Kind of EUT : Wireless LAN Module
Model No. : NJT-517
Serial No. : 0013E099D532

Report No. : 27JE0154-HO
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 59%
Operator : Shinya Watanabe

Mode / Remarks : IEEE802.11b 11Mbps Tx 2412MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase
	QP	AV	Factor	QP	AV	QP	AV	QP	AV	
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]	
0.15453	32.4	21.6	0.3	32.7	21.9	65.8	55.8	33.1	33.9	N
0.15460	33.2	21.6	0.3	33.5	21.9	65.7	55.7	32.2	33.8	L
0.20383	26.4	20.9	0.3	26.7	21.2	63.5	53.5	36.8	32.3	L
0.20383	26.6	20.9	0.3	26.9	21.2	63.5	53.5	36.6	32.3	N
0.33397	24.6	20.0	0.3	24.9	20.3	59.4	49.4	34.5	29.1	N
0.33567	24.5	20.0	0.3	24.8	20.3	59.3	49.3	34.5	29.0	L
0.66475	13.9	12.1	0.4	14.3	12.5	56.0	46.0	41.7	33.5	L
0.66515	11.6	9.5	0.4	12.0	9.9	56.0	46.0	44.0	36.1	N
24.95821	31.4	28.8	2.2	33.6	31.0	60.0	50.0	26.4	19.0	L
24.96661	32.7	30.7	2.2	34.9	32.9	60.0	50.0	25.1	17.1	N
26.95538	24.3	10.7	2.4	26.7	13.1	60.0	50.0	33.3	36.9	N
26.95538	23.3	9.8	2.4	25.7	12.2	60.0	50.0	34.3	37.8	L

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

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

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Conducted Emission
11b, Tx, Ch:Low

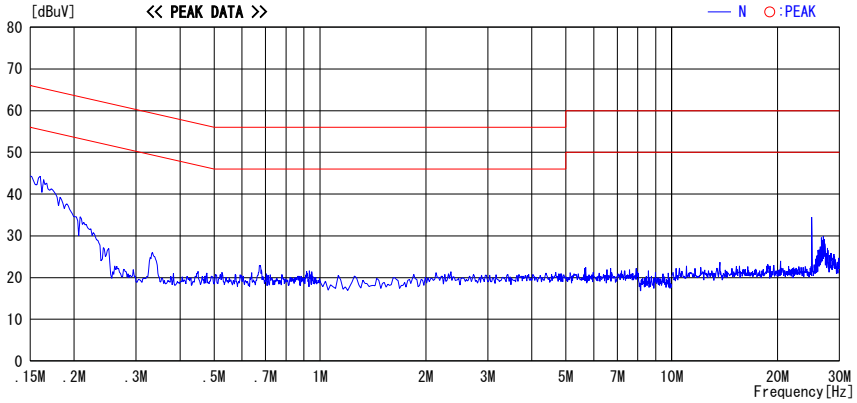
DATA OF CONDUCTED EMISSION TEST

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

Company	: Nagano Japan Radio Co.,Ltd	Report No.	: 27JE0154-HO
Kind of EUT	: Wireless LAN Module	Power	: AC 120V / 60Hz
Model No.	: NJT-517	Temp./Humi.	: 24deg.C / 59%
Serial No.	: 0013E099D532	Operator	: Shinya Watanabe

Mode / Remarks : IEEE802.11b 11Mbps Tx 2412MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



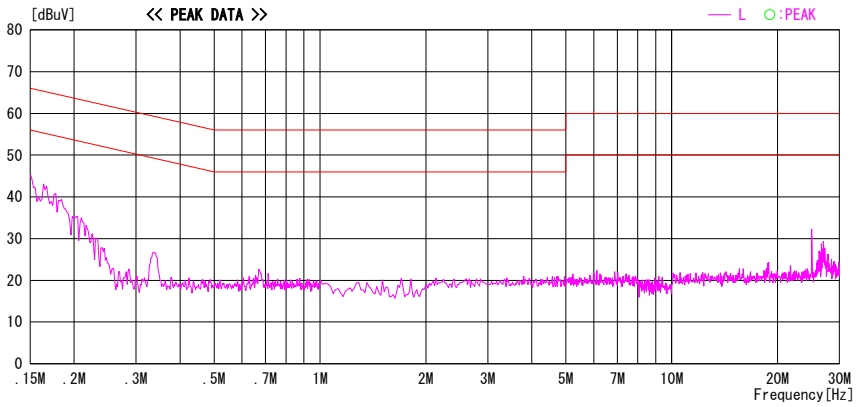


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table: adequate margin data below the limits.

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Conducted Emission
11b, Tx, Ch:Mid

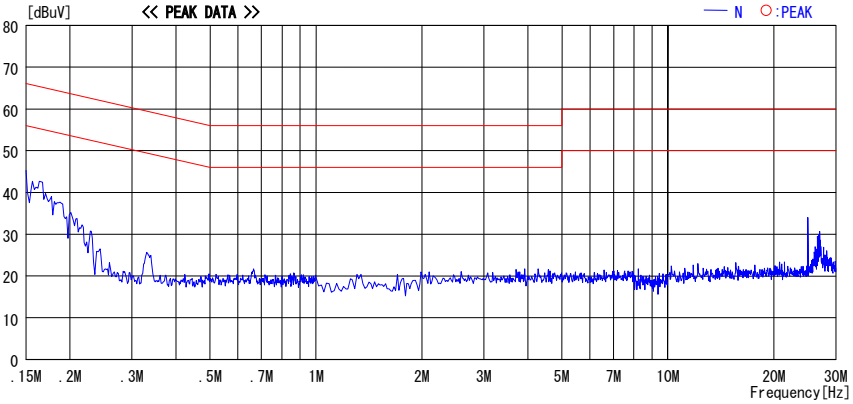
DATA OF CONDUCTED EMISSION TEST

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

Company	: Nagano Japan Radio Co.,Ltd	Report No.	: 27JE0154-HO
Kind of EUT	: Wireless LAN Module	Power	: AC 120V / 60Hz
Model No.	: NJT-517	Temp./Humi.	: 24deg.C / 59%
Serial No.	: 0013E099D532	Operator	: Shinya Watanabe

Mode / Remarks : IEEE802.11b 11Mbps Tx 2437MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



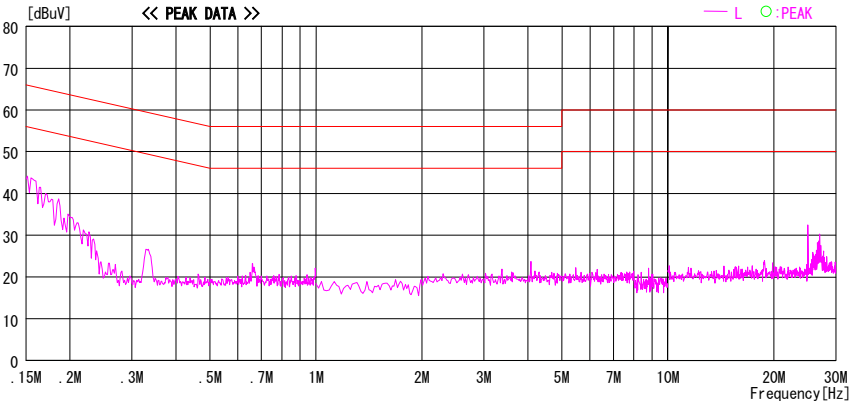


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table: adequate margin data below the limits.

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Conducted Emission
11b, Tx, Ch:High

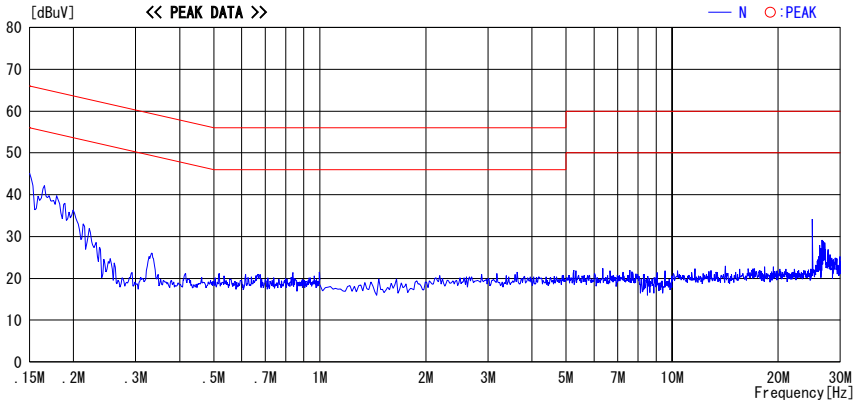
DATA OF CONDUCTED EMISSION TEST

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

Company	: Nagano Japan Radio Co.,Ltd	Report No.	: 27JE0154-HO
Kind of EUT	: Wireless LAN Module	Power	: AC 120V / 60Hz
Model No.	: NJT-517	Temp./Humi.	: 24deg.C / 59%
Serial No.	: 0013E099D532	Operator	: Shinya Watanabe

Mode / Remarks : IEEE802.11b 11Mbps Tx 2462MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



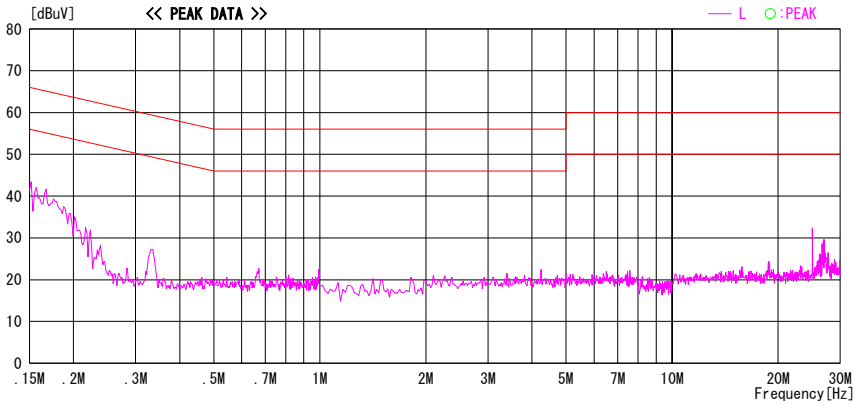


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table: adequate margin data below the limits.

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Conducted Emission
11g, Tx, Ch:Low

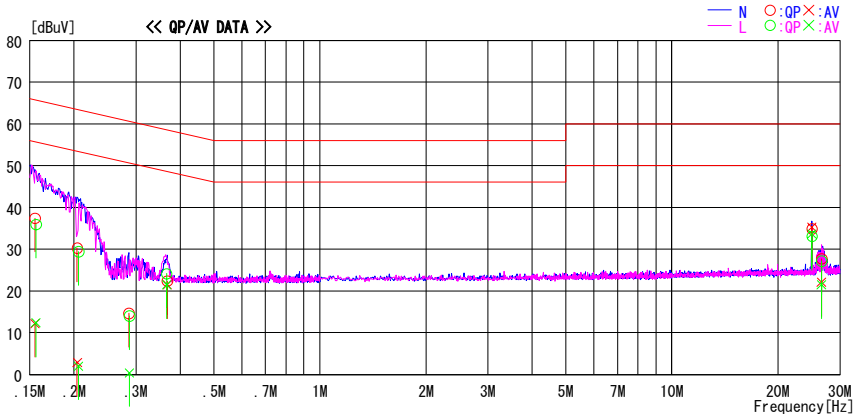
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2007/08/17

Company	: Nagano Japan Radio Co.,Ltd	Report No.	: 27JE0154-HO
Kind of EUT	: Wireless LAN Module	Power	: AC 120V / 60Hz
Model No.	: NJT-517	Temp./Humi.	: 26deg.C / 50%
Serial No.	: 0013E099D532	Operator	: Shinya Watanabe

Mode / Remarks : IEEE802.11g 18Mbps Tx 2412MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase
	QP	AV	Factor	QP	AV	QP	AV	QP	AV	
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]	
0.15510	37.1	11.9	0.3	37.4	12.2	65.7	55.7	28.3	43.5	N
0.20440	30.0	2.5	0.3	30.3	2.8	63.4	53.4	33.1	50.6	N
0.28600	14.3	-0.8	0.3	14.6	-0.5	60.6	50.6	46.0	51.1	N
0.36845	22.1	21.2	0.3	22.4	21.5	58.5	48.5	36.1	27.0	N
24.98034	33.0	33.3	1.9	34.9	35.2	60.0	50.0	25.1	14.8	N
26.62038	25.7	20.0	2.0	27.7	22.0	60.0	50.0	32.3	28.0	N
0.15595	35.7	12.0	0.3	36.0	12.3	65.7	55.7	29.7	43.4	L
0.20610	29.1	1.7	0.3	29.4	2.0	63.4	53.4	34.0	51.4	L
0.28770	13.7	0.1	0.3	14.0	0.4	60.6	50.6	46.6	50.2	L
0.36675	23.9	21.2	0.3	24.2	21.5	58.6	48.6	34.4	27.1	L
24.98034	31.2	31.7	1.9	33.1	33.6	60.0	50.0	26.9	16.4	L
26.62038	25.2	19.5	2.0	27.2	21.5	60.0	50.0	32.8	28.5	L

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

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Conducted Emission
11g, Tx, Ch:Low

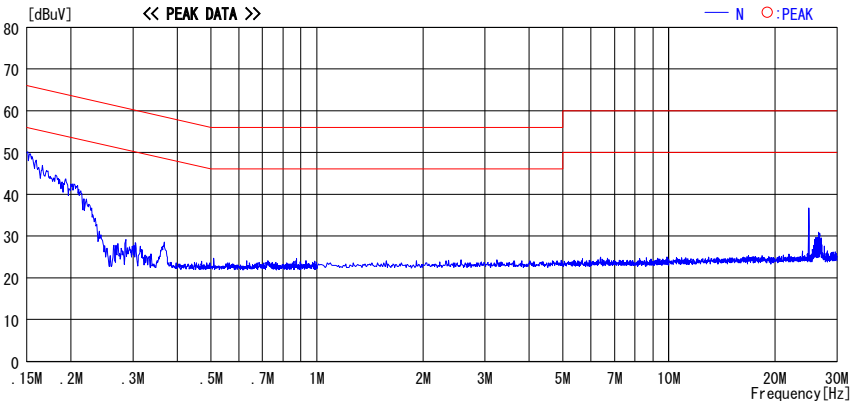
DATA OF CONDUCTED EMISSION TEST

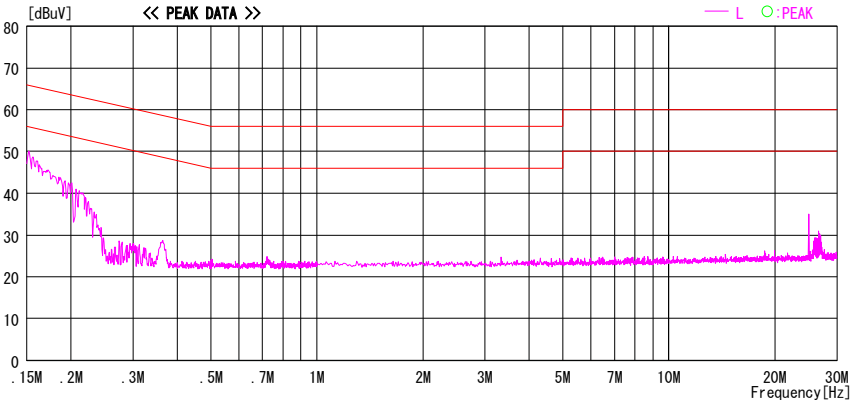
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2007/08/17

Company	: Nagano Japan Radio Co.,Ltd	Report No.	: 27JE0154-HO
Kind of EUT	: Wireless LAN Module	Power	: AC 120V / 60Hz
Model No.	: NJT-517	Temp./Humi.	: 26deg.C / 50%
Serial No.	: 0013E099D532	Operator	: Shinya Watanabe

Mode / Remarks : IEEE802.11g 18Mbps Tx 2412MHz

LIMIT : FCC15.207 QP
FCC15.207 AV





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

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Conducted Emission
11g, Tx, Ch:Mid

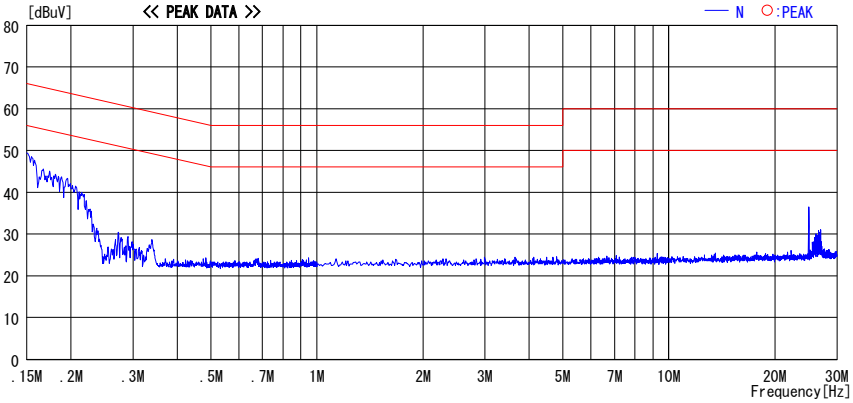
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2007/08/17

Company	: Nagano Japan Radio Co.,Ltd	Report No.	: 27JE0154-HO
Kind of EUT	: Wireless LAN Module	Power	: AC 120V / 60Hz
Model No.	: NJT-517	Temp./Humi.	: 26deg.C / 50%
Serial No.	: 0013E099D532	Operator	: Shinya Watanabe

Mode / Remarks : IEEE802.11g 18Mbps Tx 2437MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



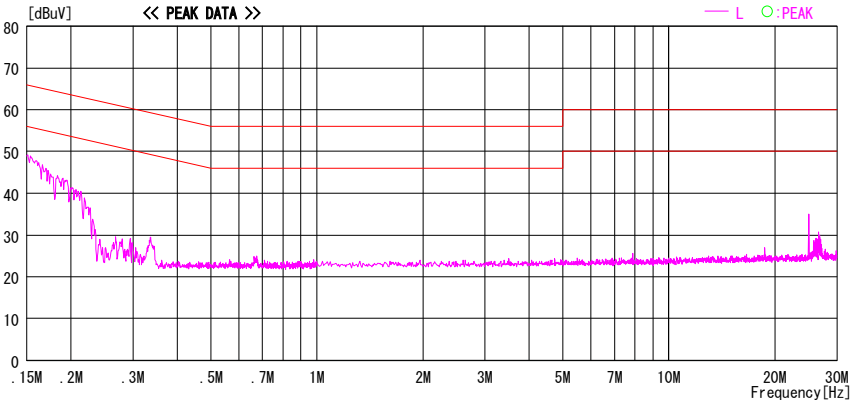


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table: adequate margin data below the limits.

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Conducted Emission
11g, Tx, Ch:High

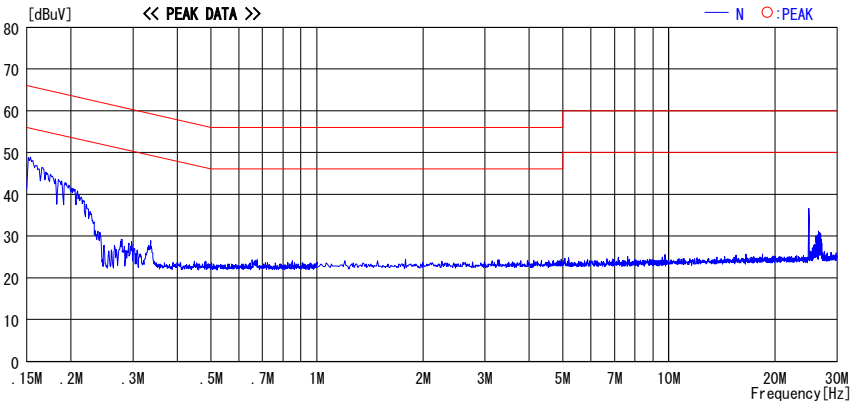
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2007/08/17

Company	: Nagano Japan Radio Co.,Ltd	Report No.	: 27JE0154-HO
Kind of EUT	: Wireless LAN Module	Power	: AC 120V / 60Hz
Model No.	: NJT-517	Temp./Humi.	: 26deg.C / 50%
Serial No.	: 0013E099D532	Operator	: Shinya Watanabe

Mode / Remarks : IEEE802.11g 18Mbps Tx 2462MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



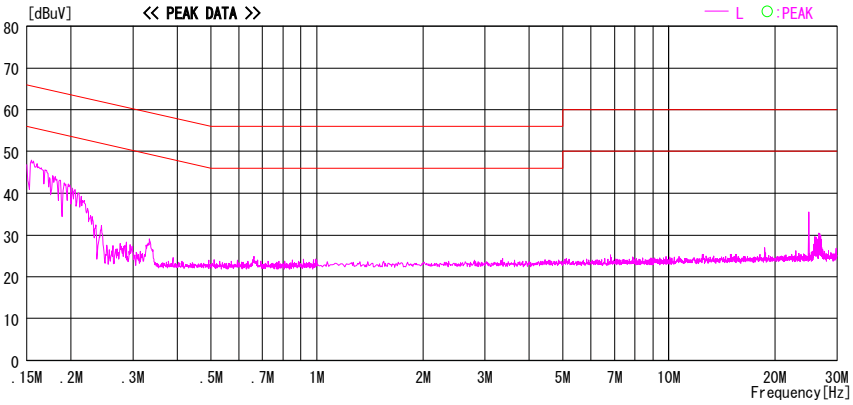


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table: adequate margin data below the limits.

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Conducted Emission
11b/g, Rx, Ch:Mid

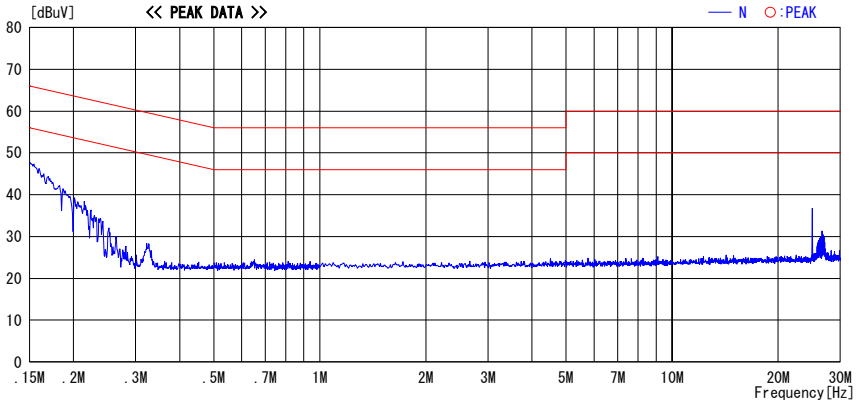
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2007/08/17

Company	: Nagano Japan Radio Co.,Ltd	Report No.	: 27JE0154-HO
Kind of EUT	: Wireless LAN Module	Power	: AC 120V / 60Hz
Model No.	: NJT-517	Temp./Humi.	: 26deg.C / 50%
Serial No.	: 0013E099D532	Operator	: Shinya Watanabe

Mode / Remarks : IEEE802.11b/g Rx 2437MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



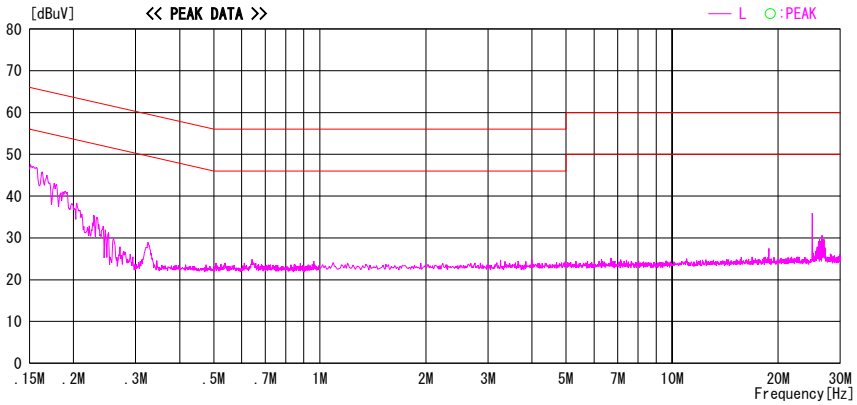


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table: adequate margin data below the limits.

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6dB Bandwidth

UL Japan, Inc.
Head Office EMC Lab. No.7 Shielded Room

Company	: Nagano Japan Radio Co., Ltd.	REPORT NO	: 27JE0154-HO
Equipment	: Wireless LAN Module	REGULATION	: FCC15.247(a)(2)/RSS-210A8.2(a)
Model	: NJT-517	TEST DISTANCE	: -
Sample No.	: 0013E09DDE77	DATE	: 08/21/2007
Power	: DC3.3V	TEMPERATURE	: 25deg.C.
Mode	: IEEE802.11b, Tx (Ch L, M, H)	HUMIDITY	: 49%
	: IEEE802.11g, Tx (Ch L, M, H)	ENGINEER	: Hidekazu Tanaka

[IEEE802.11b 11Mbps]

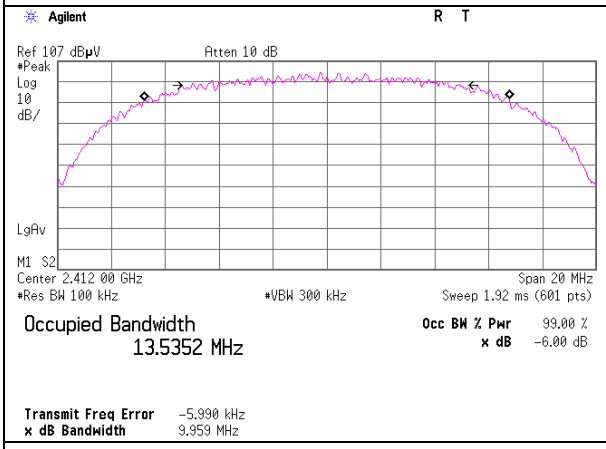
Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	9.959	>500
Mid	2437.0	9.528	>500
High	2462.0	9.941	>500

[IEEE802.11g 18Mbps]

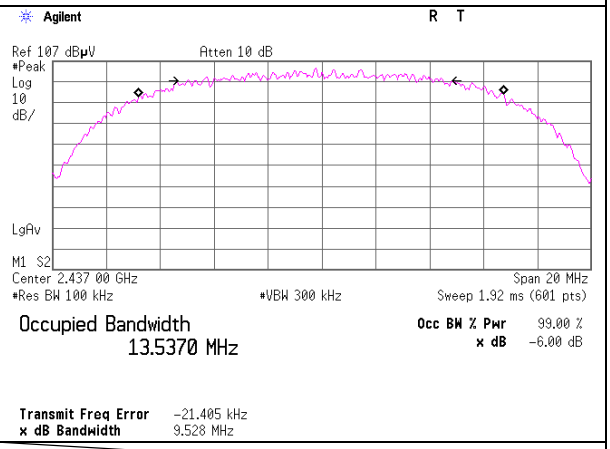
Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	16.546	>500
Mid	2437.0	16.551	>500
High	2462.0	16.523	>500

6dB Bandwidth
11b, 11Mbps

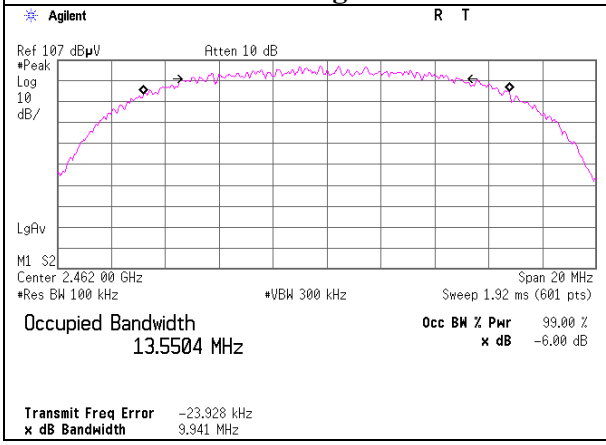
Ch:Low



Ch:Mid



Ch:High



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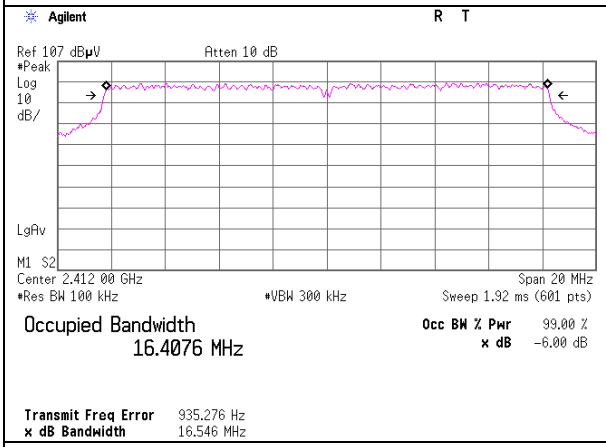
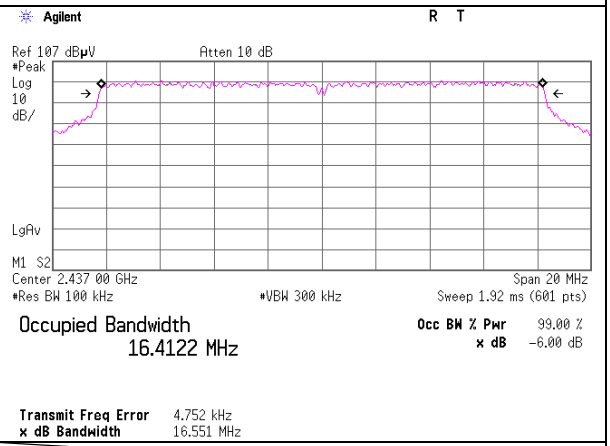
6dB Bandwidth
11g, 18Mbps

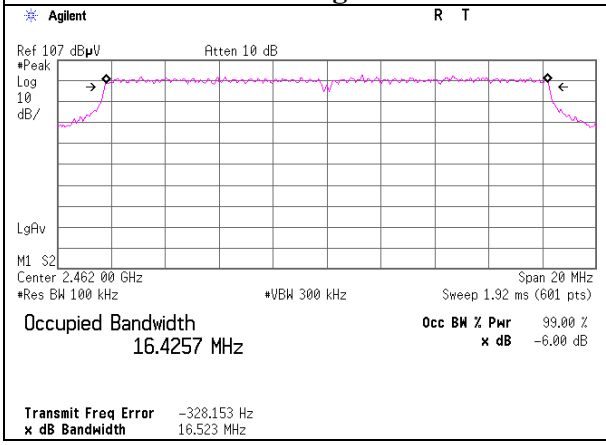
Ch:Low



Ch:Mid



Ch:High



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Maximum Peak Output Power

UL Japan, Inc.
Head Office EMC Lab. No.7 Shielded Room

Company	: Nagano Japan Radio Co., Ltd.	REPORT NO	: 27JE0154-HO
Equipment	: Wireless LAN Module	REGULATION	: FCC15.247(b)(3)/RSS-210A8.4(4)
Model	: NJT-517	TEST DISTANCE	: -
Sample No.	: 0013E09DDE77	DATE	: 08/21/2007
Power	: DC3.3V	TEMPERATURE	: 25deg.C.
Mode	: IEEE802.11b, Tx (Ch L, M, H)	HUMIDITY	: 49%
	: IEEE802.11g, Tx (Ch L, M, H)	ENGINEER	: Hidekazu Tanaka

[IEEE802.11b 11Mbps] Peak power

Ch	Freq.	P/M Reading	Cable Loss	Atten.	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	7.55	1.18	10.02	18.75	74.99	30.00	1000	11.25
Mid	2437.0	8.40	1.18	10.02	19.60	91.20	30.00	1000	10.40
High	2462.0	8.70	1.18	10.02	19.90	97.72	30.00	1000	10.10

[IEEE802.11g 18Mbps] Peak power

Ch	Freq.	P/M Reading	Cable Loss	Atten.	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	11.55	1.18	10.02	22.75	188.36	30.00	1000	7.25
Mid	2437.0	12.47	1.18	10.02	23.67	232.81	30.00	1000	6.33
High	2462.0	12.57	1.18	10.02	23.77	238.23	30.00	1000	6.23

Sample Calculation:
Result = Reading + Cable Loss + Attenuator

[IEEE802.11b 11Mbps] Average power (Reference data for SAR testing)

Ch	Freq.	P/M Reading	Cable Loss	Atten.	Result	
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]
Low	2412.0	4.92	1.18	10.02	16.12	40.93
Mid	2437.0	5.74	1.18	10.02	16.94	49.43
High	2462.0	6.07	1.18	10.02	17.27	53.33

[IEEE802.11g 18Mbps] Average power (Reference data for SAR testing)

Ch	Freq.	P/M Reading	Cable Loss	Atten.	Result	
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]
Low	2412.0	4.34	1.18	10.02	15.54	35.81
Mid	2437.0	5.30	1.18	10.02	16.50	44.67
High	2462.0	5.74	1.18	10.02	16.94	49.43

Sample Calculation:
Result = Reading + Cable Loss + Attenuator

Maximum Peak Output Power
[Maximum rated power check]

UL Japan, Inc.
Head Office EMC Lab. No.7 Shielded Room

Company	: Nagano Japan Radio Co., Ltd.	REPORT NO	: 27JE0154-HO
Equipment	: Wireless LAN Module	REGULATION	: FCC15.247(b)(3)/RSS-210A8.4(4)
Model	: NJT-517	TEST DISTANCE	: -
Sample No.	: 0013E09DDE77	DATE	: 08/21/2007
Power	: DC3.3V	TEMPERATURE	: 25deg.C.
Mode	: IEEE802.11b, Tx (Ch L, M, H)	HUMIDITY	: 49%
	: IEEE802.11g, Tx (Ch L, M, H)	ENGINEER	: Hidekazu Tanaka

Rate Check(PK)
[IEEE802.11b]

Rate	Freq.	P/M Reading	Cable Loss	Atten.	Result		Limit		Margin	
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	
1	2437.0	7.68	1.18	10.02	18.88	77.27	30.00	1000	11.12	
2	2437.0	8.15	1.18	10.02	19.35	86.10	30.00	1000	10.65	
5.5	2437.0	7.16	1.18	10.02	18.36	68.55	30.00	1000	11.64	
11	2437.0	**8.40**	1.18	10.02	19.60	91.20	30.00	1000	10.40	**Maximum**

[IEEE802.11g]

Rate	Freq.	P/M Reading	Cable Loss	Atten.	Result		Limit		Margin	
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]	
6	2437.0	12.44	1.18	10.02	23.64	231.21	30.00	1000	6.36	
9	2437.0	12.14	1.18	10.02	23.34	215.77	30.00	1000	6.66	
12	2437.0	12.45	1.18	10.02	23.65	231.74	30.00	1000	6.35	
18	2437.0	**12.47**	1.18	10.02	23.67	232.81	30.00	1000	6.33	**Maximum**
24	2437.0	12.36	1.18	10.02	23.56	226.99	30.00	1000	6.44	
36	2437.0	12.26	1.18	10.02	23.46	221.82	30.00	1000	6.54	
48	2437.0	12.25	1.18	10.02	23.45	221.31	30.00	1000	6.55	
54	2437.0	12.04	1.18	10.02	23.24	210.86	30.00	1000	6.76	

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

DATA OF RADIATED EMISSION TEST

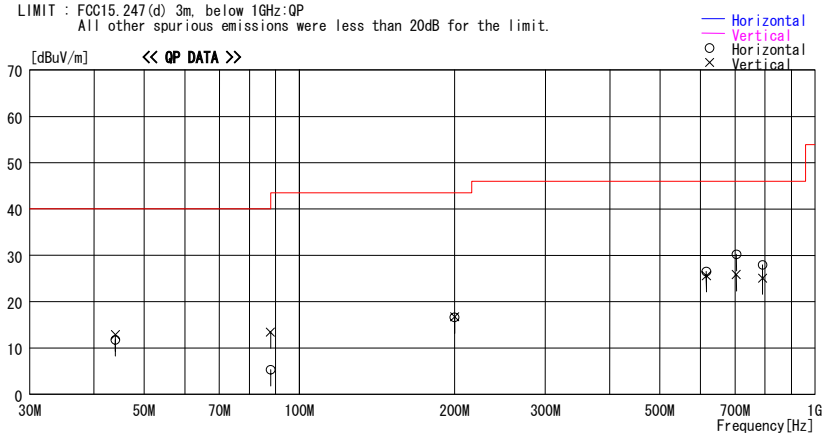
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/21

Company : Nagano Japan Radio Co.,Ltd
Kind of EUT : Wireless LAN Module
Model No. : NJT-517
Serial No. : 0013E099D532

Report No. : 27JE0154-HO
Power : DC 3.3V
Temp./Humi. : 22deg.C / 59%
Operator : Makoto Kosaka

Mode / Remarks : IEEE802.11b 11Mbps Tx 2412MHz, Max-Axis (Hor: Z, Ver: Y)

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 Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
44.000	31.5	QP	12.1	-31.9	11.7	284	294	Hori.	40.0	28.3	
44.000	32.6	QP	12.1	-31.9	12.8	192	100	Vert.	40.0	27.2	
88.000	29.0	QP	7.3	-31.0	5.3	0	200	Hori.	40.0	34.7	
88.000	37.1	QP	7.3	-31.0	13.4	207	118	Vert.	40.0	26.6	
200.000	29.0	QP	17.5	-29.9	16.6	0	200	Hori.	43.5	26.9	
200.000	29.1	QP	17.5	-29.9	16.7	207	118	Vert.	43.5	26.8	
616.000	33.4	QP	19.5	-26.4	26.5	132	137	Hori.	46.0	19.5	
616.000	32.5	QP	19.5	-26.4	25.6	346	100	Vert.	46.0	20.4	
704.000	35.0	QP	21.2	-26.0	30.2	152	115	Hori.	46.0	15.8	
704.000	30.6	QP	21.2	-26.0	25.8	204	100	Vert.	46.0	20.2	
792.000	31.8	QP	21.5	-25.4	27.9	149	100	Hori.	46.0	18.1	
792.000	29.0	QP	21.5	-25.4	25.1	165	107	Vert.	46.0	20.9	

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)

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

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

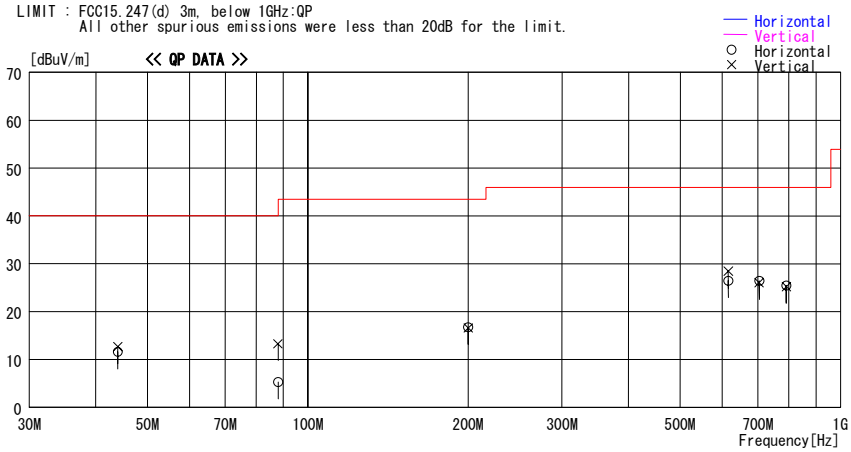
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/21

Company	: Nagano Japan Radio Co.,Ltd	Report No.	: 27JE0154-HO
Kind of EUT	: Wireless LAN Module	Power	: DC 3.3V
Model No.	: NJT-517	Temp./Humi.	: 22deg.C / 59%
Serial No.	: 0013E099D532	Operator	: Makoto Kosaka

Mode / Remarks : IEEE802.11b 11Mbps Tx 2437MHz, Max-Axis (Hor: Z, Ver: Y)

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 Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
44.000	31.4	QP	12.1	-31.9	11.6	283	299	Hori.	40.0	28.4	
44.000	32.5	QP	12.1	-31.9	12.7	193	100	Vert.	40.0	27.3	
88.000	29.0	QP	7.3	-31.0	5.3	10	198	Hori.	40.0	34.7	
88.000	37.0	QP	7.3	-31.0	13.3	208	118	Vert.	40.0	26.7	
200.000	29.2	QP	17.5	-29.9	16.8	10	198	Hori.	43.5	26.7	
200.000	29.0	QP	17.5	-29.9	16.6	208	118	Vert.	43.5	26.9	
616.000	33.4	QP	19.5	-26.4	26.5	226	134	Hori.	46.0	19.6	
616.000	35.3	QP	19.5	-26.4	28.4	54	100	Vert.	46.0	17.6	
704.000	31.3	QP	21.2	-26.0	26.5	141	130	Hori.	46.0	19.5	
704.000	30.9	QP	21.2	-26.0	26.1	211	214	Vert.	46.0	19.9	
792.000	29.4	QP	21.5	-25.4	25.5	313	100	Hori.	46.0	20.5	
792.000	29.2	QP	21.5	-25.4	25.3	191	166	Vert.	46.0	20.8	

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

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

-

DATA OF RADIATED EMISSION TEST

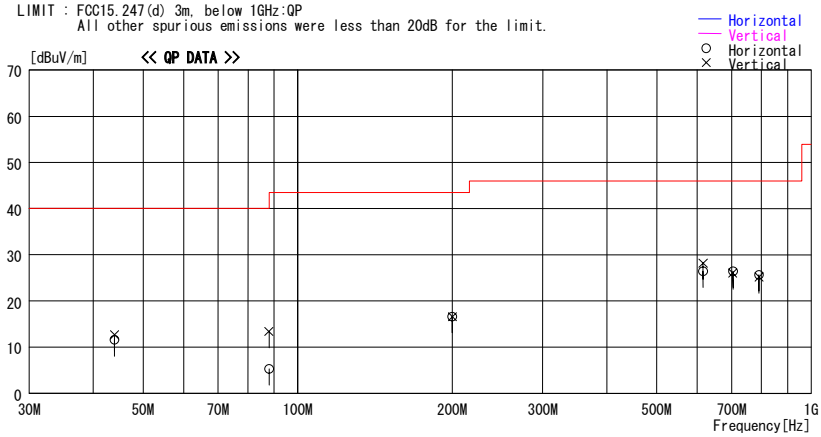
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/08/21

Company : Nagano Japan Radio Co.,Ltd
Kind of EUT : Wireless LAN Module
Model No. : NJT-517
Serial No. : 0013E099D532

Report No. : 27JE0154-HO
Power : DC 3.3V
Temp./Humi. : 22deg.C / 59%
Operator : Makoto Kosaka

Mode / Remarks : IEEE802.11b 11Mbps Tx 2462MHz, Max-Axis (Hor: Z, Ver: Y)

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 Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
44.000	31.4	QP	12.1	-31.9	11.6	283	299	Hori.	40.0	28.4	
44.000	32.5	QP	12.1	-31.9	12.7	193	100	Vert.	40.0	27.3	
88.000	29.0	QP	7.3	-31.0	5.3	10	198	Hori.	40.0	34.7	
88.000	37.1	QP	7.3	-31.0	13.4	210	118	Vert.	40.0	26.6	
200.000	29.0	QP	17.5	-29.9	16.6	10	198	Hori.	43.5	26.9	
200.000	29.0	QP	17.5	-29.9	16.6	210	118	Vert.	43.5	26.9	
616.000	33.4	QP	19.5	-26.4	26.5	226	134	Hori.	46.0	19.6	
616.000	35.1	QP	19.5	-26.4	28.2	56	100	Vert.	46.0	17.8	
704.000	31.3	QP	21.2	-26.0	26.5	141	130	Hori.	46.0	19.5	
704.000	30.9	QP	21.2	-26.0	26.1	211	214	Vert.	46.0	19.9	
792.000	29.6	QP	21.5	-25.4	25.7	316	100	Hori.	46.0	20.3	
792.000	29.2	QP	21.5	-25.4	25.3	191	166	Vert.	46.0	20.8	

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

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

DATA OF RADIATED EMISSION TEST

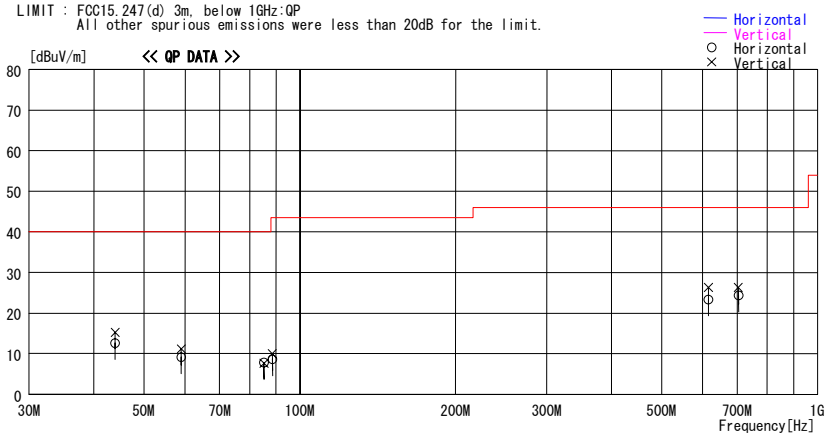
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/10

Company : Nagano Japan Radio Co.,Ltd
Kind of EUT : Wireless LAN Module
Model No. : NJT-517
Serial No. : 0013E099D532

Report No. : 27IE0154-HO
Power : DC 3.3V
Temp./Humi. : 25deg.C / 63%
Operator : Takumi Shimada

Mode / Remarks : IEEE802.11g 18Mbps Tx 2412MHz, Max-Axis (Hor: Z, Ver: Y)

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 Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
44.006	25.1	QP	12.2	-22.0	15.3	Vert.	40.0	24.8	
44.006	22.4	QP	12.2	-22.0	12.6	Hori.	40.0	27.4	
58.984	24.4	QP	8.5	-21.7	11.2	Vert.	40.0	28.8	
58.984	22.4	QP	8.5	-21.7	9.2	Hori.	40.0	30.8	
85.276	22.1	QP	7.1	-21.4	7.8	Hori.	40.0	32.2	
85.276	22.0	QP	7.1	-21.4	7.7	Vert.	40.0	32.3	
88.470	24.0	QP	7.4	-21.4	10.0	Vert.	43.5	33.6	
88.470	22.7	QP	7.4	-21.4	8.7	Hori.	43.5	34.8	
616.005	25.7	QP	19.6	-19.0	26.3	Vert.	46.0	19.7	
616.005	22.7	QP	19.6	-19.0	23.3	Hori.	46.0	22.7	
704.001	24.3	QP	20.4	-18.4	26.3	Vert.	46.0	19.7	
704.001	22.3	QP	20.4	-18.4	24.3	Hori.	46.0	21.7	

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

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

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

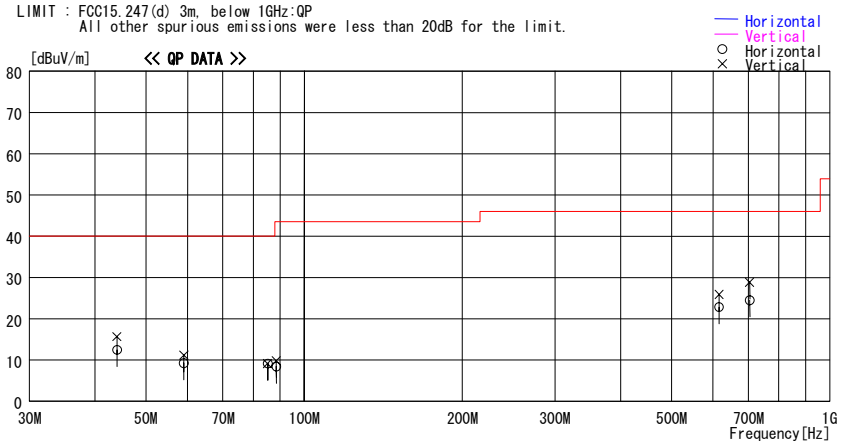
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/10

Company	: Nagano Japan Radio Co.,Ltd	Report No.	: 27IE0154-HO
Kind of EUT	: Wireless LAN Module	Power	: DC 3.3V
Model No.	: NJT-517	Temp./Humi.	: 25deg.C / 63%
Serial No.	: 0013E099D532	Operator	: Takumi Shimada

Mode / Remarks : IEEE802.11g 18Mbps Tx 2437MHz, Max-Axis (Hor: Z, Ver: Y)

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 Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
44.010	22.3	QP	12.2	-22.0	12.5	Hori.	40.0	27.5	
44.010	25.5	QP	12.2	-22.0	15.7	Vert.	40.0	24.3	
58.990	24.4	QP	8.5	-21.7	11.2	Vert.	40.0	28.8	
58.990	22.4	QP	8.5	-21.7	9.2	Hori.	40.0	30.8	
85.188	23.4	QP	7.1	-21.4	9.1	Hori.	40.0	30.9	
85.188	23.4	QP	7.1	-21.4	9.1	Vert.	40.0	30.9	
88.484	23.9	QP	7.4	-21.4	9.9	Vert.	43.5	33.7	
88.484	22.4	QP	7.4	-21.4	8.4	Hori.	43.5	35.1	
616.001	25.3	QP	19.6	-19.0	25.9	Vert.	46.0	20.1	
616.001	22.2	QP	19.6	-19.0	22.8	Hori.	46.0	23.2	
703.992	22.5	QP	20.4	-18.4	24.5	Hori.	46.0	21.5	
703.992	26.8	QP	20.4	-18.4	28.8	Vert.	46.0	17.2	

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

UL Japan, Inc.
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Radiated Spurious Emission (below 1GHz)
11g, Tx, Ch:High

DATA OF RADIATED EMISSION TEST

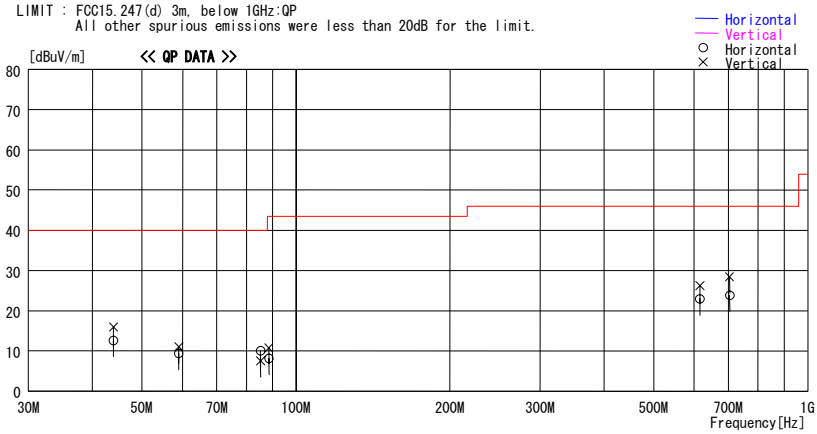
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/10

Company : Nagano Japan Radio Co.,Ltd
Kind of EUT : Wireless LAN Module
Model No. : NJT-517
Serial No. : 0013E099D532

Report No. : 27IE0154-HO
Power : DC 3.3V
Temp./Humi. : 25deg.C / 63%
Operator : Takumi Shimada

Mode / Remarks : IEEE802.11g 18Mbps Tx 2462MHz, Max-Axis (Hor: Z, Ver: Y)

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 Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
44.001	25.7	QP	12.2	-22.0	15.9	Vert.	40.0	24.1	
44.001	22.4	QP	12.2	-22.0	12.6	Hori.	40.0	27.4	
58.985	24.3	QP	8.5	-21.7	11.1	Vert.	40.0	28.9	
58.985	22.6	QP	8.5	-21.7	9.4	Hori.	40.0	30.6	
85.282	24.4	QP	7.1	-21.4	10.1	Hori.	40.0	29.9	
85.282	21.9	QP	7.1	-21.4	7.6	Vert.	40.0	32.4	
88.485	24.8	QP	7.4	-21.4	10.8	Vert.	43.5	32.7	
88.485	22.2	QP	7.4	-21.4	8.2	Hori.	43.5	35.3	
616.000	25.6	QP	19.6	-19.0	26.2	Vert.	46.0	19.8	
616.000	22.4	QP	19.6	-19.0	23.0	Hori.	46.0	23.0	
704.000	26.4	QP	20.4	-18.4	28.4	Vert.	46.0	17.6	
704.000	21.8	QP	20.4	-18.4	23.8	Hori.	46.0	22.2	

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

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

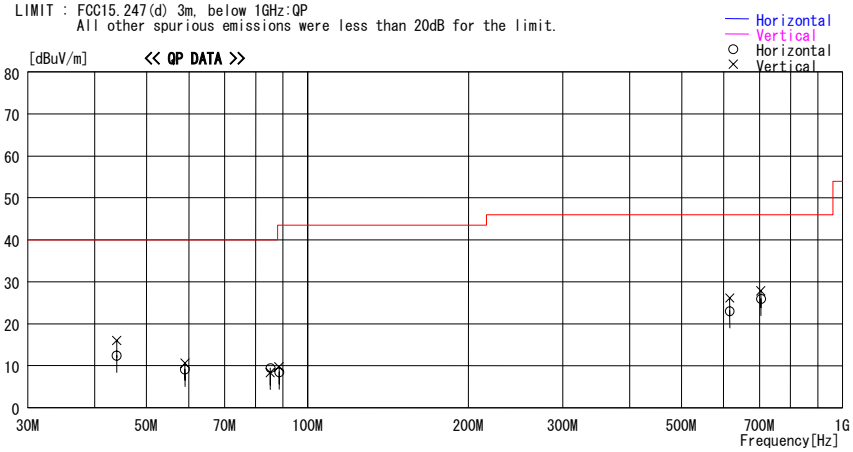
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/08/10

Company	: Nagano Japan Radio Co.,Ltd	Report No.	: 27IE0154-HO
Kind of EUT	: Wireless LAN Module	Power	: DC 3.3V
Model No.	: NJT-517	Temp./Humi.	: 25deg.C / 63%
Serial No.	: 0013E099D532	Operator	: Takumi Shimada

Mode / Remarks : IEEE802.11b/g Rx 2437MHz, Max-Axis (Hor: Z, Ver: Y)

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 Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
43.996	25.9	QP	12.2	-22.0	16.1	Vert.	40.0	24.0	
43.996	22.3	QP	12.2	-22.0	12.5	Hori.	40.0	27.5	
58.990	23.8	QP	8.5	-21.7	10.6	Vert.	40.0	29.4	
58.990	22.3	QP	8.5	-21.7	9.1	Hori.	40.0	30.9	
85.199	23.8	QP	7.1	-21.4	9.5	Hori.	40.0	30.5	
85.199	22.7	QP	7.1	-21.4	8.4	Vert.	40.0	31.6	
88.472	23.7	QP	7.4	-21.4	9.7	Vert.	43.5	33.8	
88.472	22.5	QP	7.4	-21.4	8.5	Hori.	43.5	35.0	
616.000	25.6	QP	19.6	-19.0	26.2	Vert.	46.0	19.8	
616.000	22.5	QP	19.6	-19.0	23.1	Hori.	46.0	23.0	
704.000	25.9	QP	20.4	-18.4	27.9	Vert.	46.0	18.2	
704.000	24.0	QP	20.4	-18.4	26.0	Hori.	46.0	20.0	

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

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

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

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

Company	: Nagano Japan Radio Co., Ltd	REPORT NO	: 27JE0154-HO
Equipment	: Wireless LAN Module	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: NJT-517	TEST DISTANCE	: 3/1m
Sample No.	: 0013E099D532	DATE	: 08/21/2007
Power	: DC 3.3V	TEMPERATURE	: 24deg.C
Mode	: IEEE802.11b 11Mbps Tx 2412MHz	HUMIDITY	: 66%
Remarks	: Hor Z-Axis, Ver Y-axis	ENGINEER	: Makoto Kosaka

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	or ATT	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	49.6	48.7	27.1	36.4	2.9	10.0	53.2	52.3	73.9	20.7	21.6
2	2400.0*	56.4	56.6	27.1	36.4	2.9	10.0	60.0	60.2	-	-	-
3	4824.0	46.5	46.7	31.3	36.3	3.7	0.9	46.1	46.3	73.9	27.8	27.6
4	7236.0	47.0	46.8	35.8	36.4	4.7	0.7	51.8	51.6	73.9	22.1	22.3
5	9648.0	47.4	47.1	38.6	36.6	5.3	0.5	55.2	54.9	73.9	18.7	19.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	NS	NS	39.2	36.3	6.2	0.3	-	-	73.9	-	-
7	14472.0	NS	NS	40.8	35.6	6.9	0.5	-	-	73.9	-	-
8	16884.0	NS	NS	39.7	35.3	7.7	0.5	-	-	73.9	-	-
9	19296.0	NS	NS	39.8	35.3	8.2	0.0	-	-	73.9	-	-
10	21708.0	NS	NS	40.4	35.3	8.5	0.0	-	-	73.9	-	-
11	24120.0	49.3	50.8	40.7	35.8	8.8	0.0	53.5	55.0	73.9	20.4	18.9

* Reference data

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	or ATT	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	36.1	35.1	27.1	36.4	2.9	10.0	39.7	38.7	53.9	14.2	15.2
2	2400.0*	43.4	42.8	27.1	36.4	2.9	10.0	47.0	46.4	-	-	-
3	4824.0	31.6	31.8	31.3	36.3	3.7	0.9	31.2	31.4	53.9	22.7	22.5
4	7236.0	32.7	32.7	35.8	36.4	4.7	0.7	37.5	37.5	53.9	16.4	16.4
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	39.2	36.3	6.2	0.3	-	-	53.9	-	-
7	14472.0	NS	NS	40.8	35.6	6.9	0.5	-	-	53.9	-	-
8	16884.0	NS	NS	39.7	35.3	7.7	0.5	-	-	53.9	-	-
9	19296.0	NS	NS	39.8	35.3	8.2	0.0	-	-	53.9	-	-
10	21708.0	NS	NS	40.4	35.3	8.5	0.0	-	-	53.9	-	-
11	24120.0	35.8	35.7	40.7	35.8	8.8	0.0	40.0	39.9	53.9	13.9	14.0

* 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	or ATT	HOR	VER	20dBc	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2412.0	98.0	97.4	27.1	36.4	2.9	10.0	101.6	101.0	-	-	-
2	2400.0	43.7	44.3	27.1	36.4	2.9	10.0	47.3	47.9	Funda-20dB	34.3	33.1

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.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The limit is rounded down to one decimal place.
*The test result is round off to one or two decimal places, so some differences might be observed.
NS:Non Signal

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

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

Company	: Nagano Japan Radio Co., Ltd	REPORT NO	: 27JE0154-HO
Equipment	: Wireless LAN Module	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: NJT-517	TEST DISTANCE	: 3/1m
Sample No.	: 0013E099D532	DATE	: 08/21/2007
Power	: DC 3.3V	TEMPERATURE	: 24deg.C
Mode	: IEEE802.11b 11Mbps Tx 2437MHz	HUMIDITY	: 66%
Remarks	: Hor Z-Axis, Ver Y-axis	ENGINEER	: Makoto Kosaka

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	or ATT	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.0	45.6	45.5	31.4	36.3	3.8	1.0	45.5	45.4	73.9	28.4	28.5
2	7311.0	47.6	47.2	35.9	36.4	4.8	0.7	52.6	52.2	73.9	21.3	21.7
3	9748.0	47.4	46.9	38.7	36.7	5.3	0.5	55.2	54.7	73.9	18.7	19.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	NS	NS	39.2	36.2	6.2	0.3	-	-	73.9	-	-
5	14622.0	NS	NS	40.6	35.8	6.9	0.5	-	-	73.9	-	-
6	17059.0	NS	NS	40.6	35.2	7.7	0.5	-	-	73.9	-	-
7	19496.0	NS	NS	39.8	35.4	8.2	0.0	-	-	73.9	-	-
8	21933.0	NS	NS	40.5	35.2	8.5	0.0	-	-	73.9	-	-
9	24370.0	49.5	49.7	40.7	35.6	8.9	0.0	47.9	48.1	73.9	26.0	25.8

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	or ATT	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.0	31.9	31.9	31.4	36.3	3.8	1.0	31.8	31.8	53.9	22.1	22.1
2	7311.0	33.0	33.0	35.9	36.4	4.8	0.7	38.0	38.0	53.9	15.9	15.9
3	9748.0	33.3	33.2	38.7	36.7	5.3	0.5	41.1	41.0	53.9	12.8	12.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	NS	NS	39.2	36.2	6.2	0.3	-	-	53.9	-	-
5	14622.0	NS	NS	40.6	35.8	6.9	0.5	-	-	53.9	-	-
6	17059.0	NS	NS	40.6	35.2	7.7	0.5	-	-	53.9	-	-
7	19496.0	NS	NS	39.8	35.4	8.2	0.0	-	-	53.9	-	-
8	21933.0	NS	NS	40.5	35.2	8.5	0.0	-	-	53.9	-	-
9	24370.0	35.6	35.8	40.7	35.6	8.9	0.0	34.0	34.2	53.9	19.9	19.7

* Reference data

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
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.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The limit is rounded down to one decimal place.
*The test result is round off to one or two decimal places, so some differences might be observed.
NS:Non Signal

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

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

Company	: Nagano Japan Radio Co., Ltd	REPORT NO	: 27JE0154-HO
Equipment	: Wireless LAN Module	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: NJT-517	TEST DISTANCE	: 3/1m
Sample No.	: 0013E099D532	DATE	: 08/21/2007
Power	: DC 3.3V	TEMPERATURE	: 24deg.C
Mode	: IEEE802.11b 11Mbps Tx 2462MHz	HUMIDITY	: 66%
Remarks	: Hor Z-Axis, Ver Y-axis	ENGINEER	: Makoto Kosaka

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	49.8	51.0	27.2	36.4	2.9	10.0	53.5	54.7	73.9	20.4	19.2
2	4924.0	46.2	45.9	31.5	36.3	3.8	1.0	46.2	45.9	73.9	27.7	28.0
3	7386.0	46.7	46.8	36.1	36.4	4.8	0.7	51.9	52.0	73.9	22.0	21.9
4	9848.0	47.4	46.8	38.8	36.7	5.4	0.5	55.4	54.8	73.9	18.5	19.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	NS	NS	39.2	36.1	6.3	0.3	-	-	73.9	-	-
6	14772.0	NS	NS	40.3	36.1	7.0	0.4	-	-	73.9	-	-
7	17234.0	NS	NS	42.4	35.2	7.8	0.5	-	-	73.9	-	-
8	19696.0	NS	NS	39.8	35.4	8.3	0.0	-	-	73.9	-	-
9	22158.0	NS	NS	40.6	35.3	8.5	1.1	-	-	73.9	-	-
10	24620.0	48.3	49.2	40.8	35.4	8.9	0.0	47.0	47.9	73.9	26.9	26.0

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	36.3	37.0	27.2	36.4	2.9	10.0	40.0	40.7	53.9	13.9	13.2
2	4924.0	31.7	31.7	31.5	36.3	3.8	1.0	31.7	31.7	53.9	22.2	22.2
3	7386.0	32.7	32.7	36.1	36.4	4.8	0.7	37.9	37.9	53.9	16.0	16.0
4	9848.0	33.1	33.0	38.8	36.7	5.4	0.5	41.1	41.0	53.9	12.8	12.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	NS	NS	39.2	36.1	6.3	0.3	-	-	53.9	-	-
6	14772.0	NS	NS	40.3	36.1	7.0	0.4	-	-	53.9	-	-
7	17234.0	NS	NS	42.4	35.2	7.8	0.5	-	-	53.9	-	-
8	19696.0	NS	NS	39.8	35.4	8.3	0.0	-	-	53.9	-	-
9	22158.0	NS	NS	40.6	35.3	8.5	1.1	-	-	53.9	-	-
10	24620.0	35.0	35.0	40.8	35.4	8.9	0.0	33.7	33.7	53.9	20.2	20.2

* Reference data

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
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.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The limit is rounded down to one decimal place.
*The test result is round off to one or two decimal places, so some differences might be observed.
NS:Non Signal

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

UL Japan, Inc.
Head Office EMC Lab. No.4/No.2Semi Anechoic Chamber

Company	: Nagano Japan Radio Co., Ltd	REPORT NO	: 27JE0154-HO	
Equipment	: Wireless LAN Module	REGULATION	: FCC15.247(d)/RSS-210A8.5	
Model	: NJT-517	TEST DISTANCE	: 3/1/0.5m	
Sample No.	: 0013E099D532	DATE	: 08/08/2007	: 08/09/2007
Power	: DC 3.3V	TEMPERATURE	: 24deg.C	: 25deg.C
Mode	: IEEE802.11g 18Mbps Tx 2412MHz	HUMIDITY	: 66%	: 70%
Remarks	: Hor Z-Axis, Ver Y-axis	ENGINEER	: Shinya Watanabe	: Shinya Watanabe

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1502.5	58.0	57.9	25.0	33.2	2.0	0.0	51.8	51.7	73.9	22.1	22.2
2	2390.0	66.6	66.9	26.6	32.1	2.5	0.0	63.6	63.9	73.9	10.3	10.0
3	2400.0*	82.8	80.5	26.6	32.1	2.5	0.0	79.8	77.5	-	-	-
4	4824.0	42.6	42.5	30.9	31.2	3.4	0.8	46.5	46.4	73.9	27.4	27.5
5	7236.0	42.5	42.5	35.3	32.5	4.2	0.5	50.0	50.0	73.9	23.9	23.9
6	9648.0	43.0	43.4	37.6	32.9	5.3	0.5	53.5	53.9	73.9	20.4	20.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12060.0	NS	NS	39.2	31.1	7.2	0.7	-	-	73.9	-	-
8	14472.0	NS	NS	40.8	30.1	7.8	0.6	-	-	73.9	-	-
9	16884.0	NS	NS	39.7	30.1	8.6	0.5	-	-	73.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
10	19296.0	NS	NS	39.8	30.0	9.2	0.7	-	-	73.9	-	-
11	21708.0	NS	NS	40.5	35.8	19.2	1.1	-	-	73.9	-	-
12	24120.0	43.1	43.1	40.7	30.7	10.4	0.0	47.9	47.9	73.9	26.0	26.0

* Reference data

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1502.5	42.7	38.9	25.0	33.2	2.0	0.0	36.5	32.7	53.9	17.4	21.2
2	2390.0	49.2	49.0	26.6	32.1	2.5	0.0	46.2	46.0	53.9	7.7	7.9
3	2400.0*	62.0	60.0	26.6	32.1	2.5	0.0	59.0	57.0	-	-	-
4	4824.0	30.0	30.2	30.9	31.2	3.4	0.8	33.9	34.1	53.9	20.0	19.8
5	7236.0	30.7	30.7	35.3	32.5	4.2	0.5	38.2	38.2	53.9	15.7	15.7
6	9648.0	30.8	30.8	37.6	32.9	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												
7	12060.0	NS	NS	39.2	31.1	7.2	0.7	-	-	53.9	-	-
8	14472.0	NS	NS	40.8	30.1	7.8	0.6	-	-	53.9	-	-
9	16884.0	NS	NS	39.7	30.1	8.6	0.5	-	-	53.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
10	19296.0	NS	NS	39.8	30.0	9.2	0.7	-	-	53.9	-	-
11	21708.0	NS	NS	40.5	35.8	19.2	1.1	-	-	53.9	-	-
12	24120.0	31.3	31.9	40.7	30.7	10.4	0.0	36.1	36.7	53.9	17.8	17.2

* 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	HOR	VER	20dBc	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2412.0	97.8	100.4	26.7	32.1	2.5	0.0	94.9	97.5	-	-	-
2	2400.0	68.6	64.6	26.6	32.1	2.5	0.0	65.6	61.6	Funda-20dB	9.3	15.9

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
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.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The limit is rounded down to one decimal place.
*The test result is round off to one or two decimal places, so some differences might be observed.
NS:Non Signal

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

UL Japan, Inc.
Head Office EMC Lab. No.4/No.2Semi Anechoic Chamber

Company	: Nagano Japan Radio Co., Ltd	REPORT NO	: 27JE0154-HO
Equipment	: Wireless LAN Module	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: NJT-517	TEST DISTANCE	: 3/1/0.5m
Sample No.	: 0013E099D532	DATE	: 08/08/2007 : 08/09/2007
Power	: DC 3.3V	TEMPERATURE	: 24deg.C : 25deg.C
Mode	: IEEE802.11g 18Mbps Tx 2437MHz	HUMIDITY	: 66% : 70%
Remarks	: Hor Z-Axis, Ver Y-axis	ENGINEER	: Shinya Watanabe : Shinya Watanabe

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1538.3	54.3	55.5	25.1	33.2	2.0	0.0	48.2	49.4	73.9	25.7	24.5
2	4874.0	42.4	42.9	31.0	31.2	3.4	0.7	46.3	46.8	73.9	27.6	27.1
3	7311.0	43.1	43.4	35.4	32.5	4.3	0.5	50.8	51.1	73.9	23.1	22.8
4	9748.0	42.9	42.4	37.6	32.9	5.3	0.4	53.3	52.8	73.9	20.6	21.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	NS	NS	39.2	31.0	7.2	0.7	-	-	73.9	-	-
6	14622.0	NS	NS	40.6	30.2	7.9	0.6	-	-	73.9	-	-
7	17059.0	NS	NS	40.6	30.0	8.7	0.5	-	-	73.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	19496.0	NS	NS	39.8	30.2	9.2	0.7	-	-	73.9	-	-
9	21933.0	NS	NS	40.5	35.8	19.2	1.1	-	-	73.9	-	-
10	24370.0	46.5	46.3	40.7	30.6	10.4	0.0	51.4	51.2	73.9	22.5	22.7

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1538.3	37.6	38.4	25.1	33.2	2.0	0.0	31.5	32.3	53.9	22.4	21.6
2	4874.0	30.0	30.2	31.0	31.2	3.4	0.7	33.9	34.1	53.9	20.0	19.8
3	7311.0	30.8	30.9	35.4	32.5	4.3	0.5	38.5	38.6	53.9	15.4	15.3
4	9748.0	30.7	30.7	37.6	32.9	5.3	0.4	41.1	41.1	53.9	12.8	12.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	NS	NS	39.2	31.0	7.2	0.7	-	-	53.9	-	-
6	14622.0	NS	NS	40.6	30.2	7.9	0.6	-	-	53.9	-	-
7	17059.0	NS	NS	40.6	30.0	8.7	0.5	-	-	53.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	19496.0	NS	NS	39.8	30.2	9.2	0.7	-	-	53.9	-	-
9	21933.0	NS	NS	40.5	35.8	19.2	1.1	-	-	53.9	-	-
10	24370.0	34.9	34.9	40.7	30.6	10.4	0.0	39.8	39.8	53.9	14.1	14.1

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
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.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The limit is rounded down to one decimal place.
*The test result is round off to one or two decimal places, so some differences might be observed.
NS:Non Signal

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

UL Japan, Inc.
Head Office EMC Lab. No.4/No.2Semi Anechoic Chamber

Company	: Nagano Japan Radio Co., Ltd	REPORT NO	: 27JE0154-HO
Equipment	: Wireless LAN Module	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: NJT-517	TEST DISTANCE	: 3/1/0.5m
Sample No.	: 0013E099D532	DATE	: 08/08/2007 : 08/09/2007
Power	: DC 3.3V	TEMPERATURE	: 24deg.C : 25deg.C
Mode	: IEEE802.11g 18Mbps Tx 2462MHz	HUMIDITY	: 66% : 70%
Remarks	: Hor Z-Axis, Ver Y-axis	ENGINEER	: Shinya Watanabe : Shinya Watanabe

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1575.8	55.7	55.6	25.1	33.1	2.0	0.0	49.7	49.6	73.9	24.2	24.3
2	2483.5	63.3	63.6	26.8	32.1	2.6	0.0	60.6	60.9	73.9	13.3	13.0
3	2486.8	63.9	64.5	26.8	32.1	2.6	0.0	61.2	61.8	73.9	12.7	12.1
4	2557.2	58.0	58.3	27.0	32.0	2.6	0.0	55.6	55.9	73.9	18.3	18.0
5	4924.0	42.2	42.5	31.1	31.2	3.4	0.7	46.2	46.5	73.9	27.7	27.4
6	7386.0	43.0	43.6	35.6	32.6	4.3	0.5	50.8	51.4	73.9	23.1	22.5
7	9848.0	43.0	42.6	37.6	32.9	5.4	0.3	53.4	53.0	73.9	20.5	20.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	12310.0	NS	NS	39.2	30.8	7.2	0.7	-	-	73.9	-	-
9	14772.0	NS	NS	40.3	30.2	7.9	0.6	-	-	73.9	-	-
10	17234.0	NS	NS	42.4	30.0	8.7	0.6	-	-	73.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
11	19696.0	NS	NS	39.8	30.5	9.3	0.8	-	-	73.9	-	-
12	22158.0	NS	NS	40.5	35.8	19.2	1.1	-	-	73.9	-	-
13	24620.0	46.2	46.3	40.8	30.6	10.6	0.0	51.4	51.5	73.9	22.5	22.4

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1575.8	38.8	38.9	25.1	33.1	2.0	0.0	32.8	32.9	53.9	21.1	21.0
2	2483.5	47.4	47.7	26.8	32.1	2.6	0.0	44.7	45.0	53.9	9.2	8.9
3	2486.8	48.2	47.9	26.8	32.1	2.6	0.0	45.5	45.2	53.9	8.4	8.7
4	2557.2	45.5	45.4	27.0	32.0	2.6	0.0	43.1	43.0	53.9	10.8	10.9
5	4924.0	30.3	30.2	31.1	31.2	3.4	0.7	34.3	34.2	53.9	19.6	19.7
6	7386.0	31.1	31.1	35.6	32.6	4.3	0.5	38.9	38.9	53.9	15.0	15.0
7	9848.0	30.9	30.7	37.6	32.9	5.4	0.3	41.3	41.1	53.9	12.6	12.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	12310.0	NS	NS	39.2	30.8	7.2	0.7	-	-	53.9	-	-
9	14772.0	NS	NS	40.3	30.2	7.9	0.6	-	-	53.9	-	-
10	17234.0	NS	NS	42.4	30.0	8.7	0.6	-	-	53.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
11	19696.0	NS	NS	39.8	30.5	9.3	0.8	-	-	53.9	-	-
12	22158.0	NS	NS	40.5	35.8	19.2	1.1	-	-	53.9	-	-
13	24620.0	34.1	34.1	40.8	30.6	10.6	0.0	39.3	39.3	53.9	14.6	14.6

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
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.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*The limit is rounded down to one decimal place.
*The test result is round off to one or two decimal places, so some differences might be observed.
NS:Non Signal

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

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

Company	: Nagano Japan Radio Co., Ltd	REPORT NO	: 27JE0154-HO
Equipment	: Wireless LAN Module	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: NJT-517	TEST DISTANCE	: 3m
Sample No.	: 0013E099D532	DATE	: 08/09/2007
Power	: DC 3.3V	TEMPERATURE	: 25deg.C
Mode	: IEEE802.11b/g Rx 2437MHz	HUMIDITY	: 70%
Remarks	: Hor Z-Axis, Ver Y-axis	ENGINEER	: Shinya Watanabe

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2437.0	42.8	42.9	27.2	32.3	3.3	0.0	41.0	41.1	73.9	32.9	32.8
2	4874.0	41.3	41.5	31.4	31.6	4.5	0.0	45.6	45.8	73.9	28.3	28.1
3	7311.0	41.1	41.3	35.9	31.4	5.3	0.0	50.9	51.1	73.9	23.0	22.8
4	9748.0	41.6	41.8	38.7	32.0	6.2	0.0	54.5	54.7	73.9	19.4	19.2

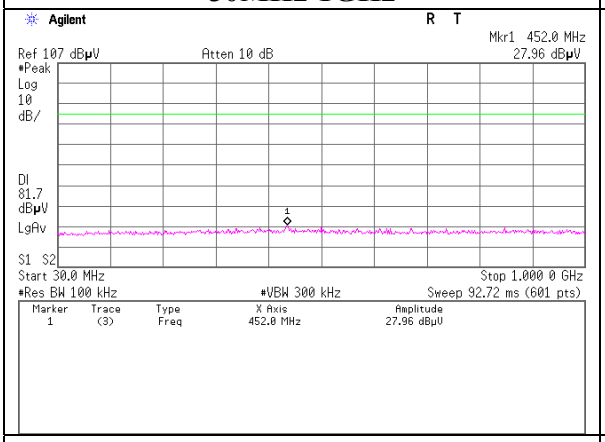
AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2437.0	29.1	30.0	27.2	32.3	3.3	0.0	27.3	28.2	53.9	26.6	25.7
2	4874.0	27.8	27.9	31.4	31.6	4.5	0.0	32.1	32.2	53.9	21.8	21.7
3	7311.0	27.4	27.4	35.9	31.4	5.3	0.0	37.2	37.2	53.9	16.7	16.7
4	9748.0	28.0	28.1	38.7	32.0	6.2	0.0	40.9	41.0	53.9	13.0	12.9

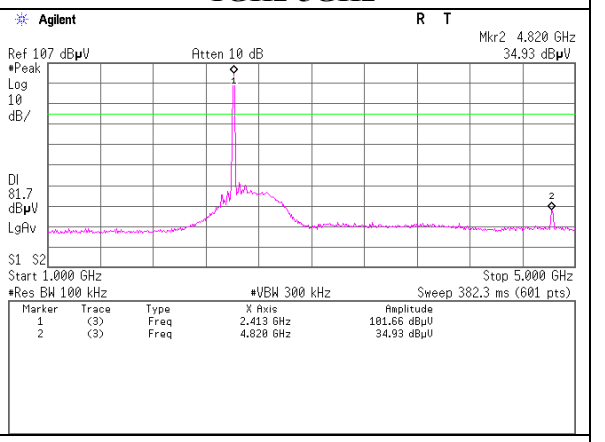
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*The limit is rounded down to one decimal place.
*The test result is round off to one or two decimal places, so some differences might be observed.

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

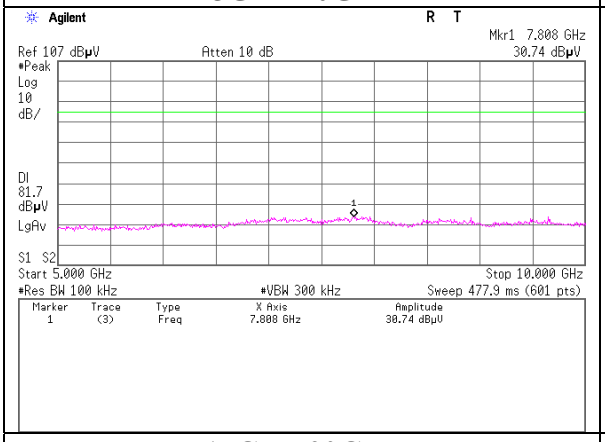
30MHz-1GHz



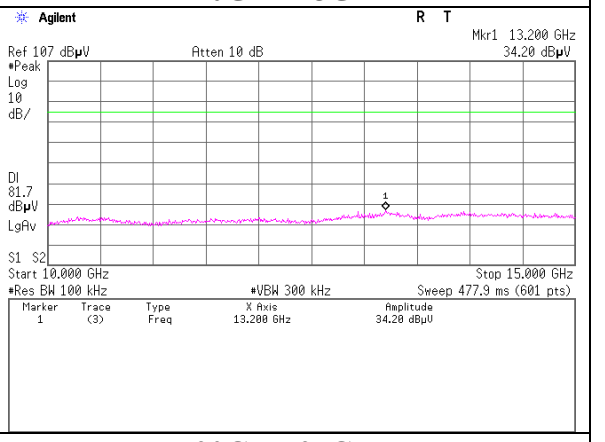
1GHz-5GHz



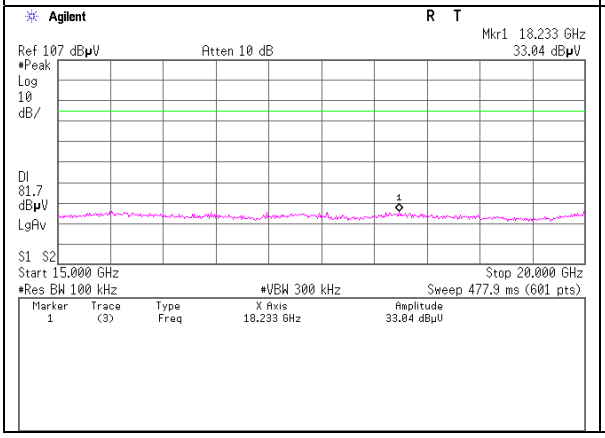
5GHz-10GHz



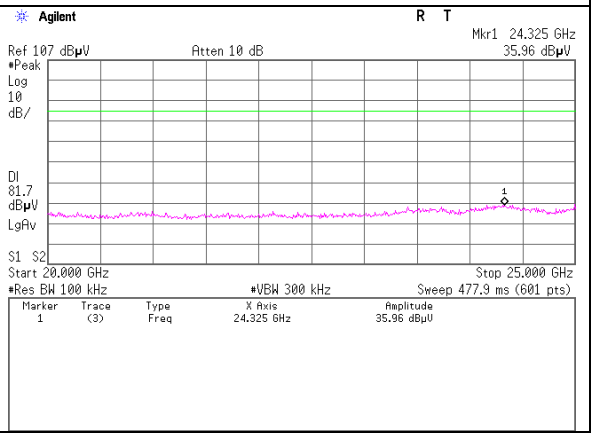
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz



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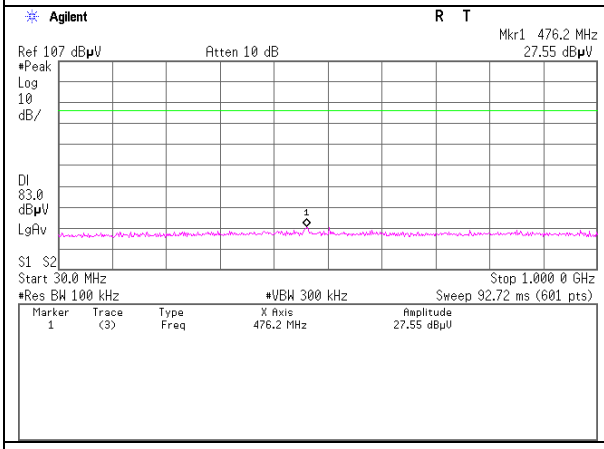
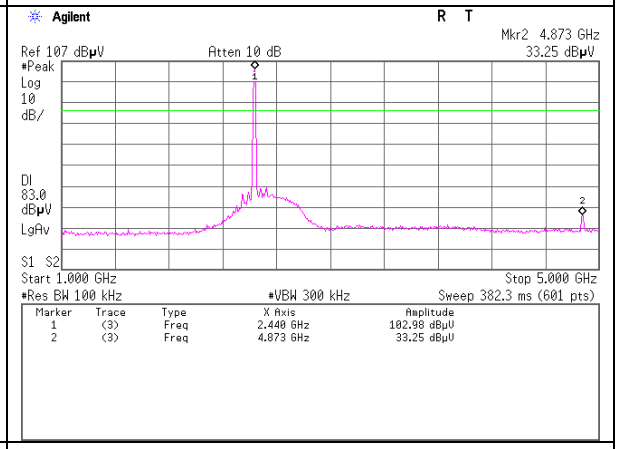
Conducted Spurious Emission
11b, Tx, 11Mbps, Ch: Mid

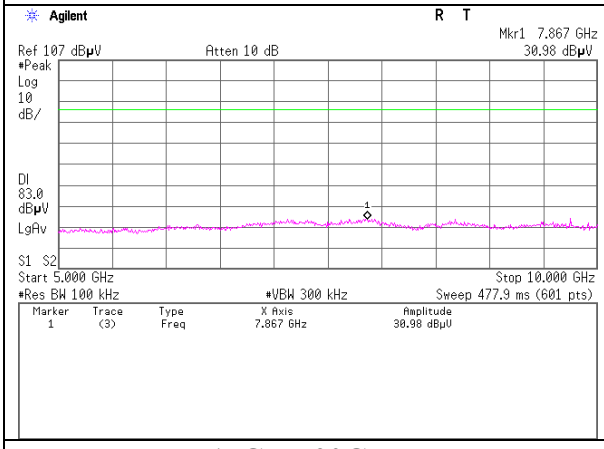
30MHz-1GHz



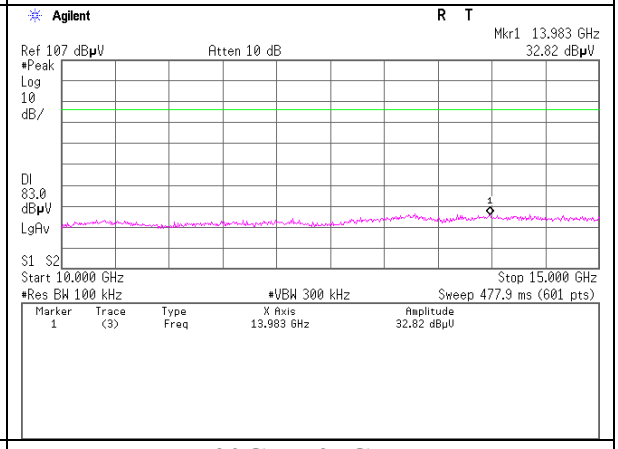
1GHz-5GHz



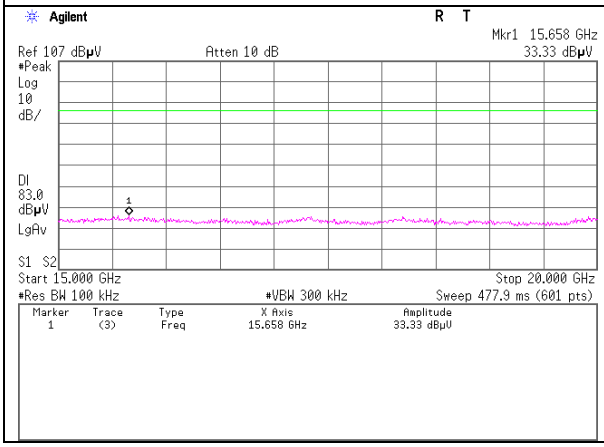
5GHz-10GHz



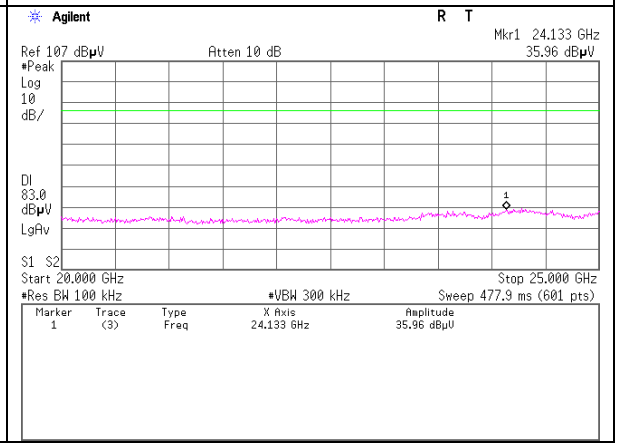
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz



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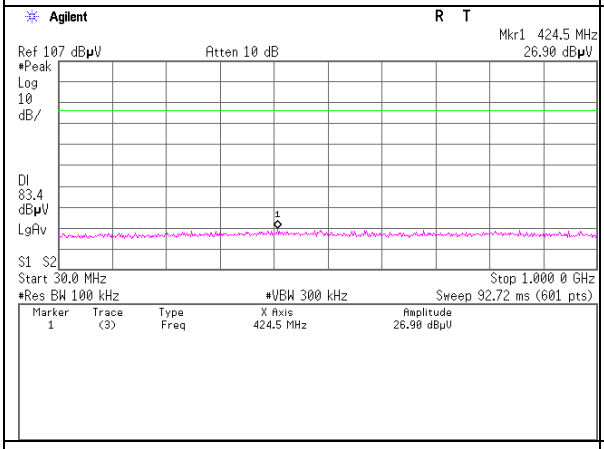
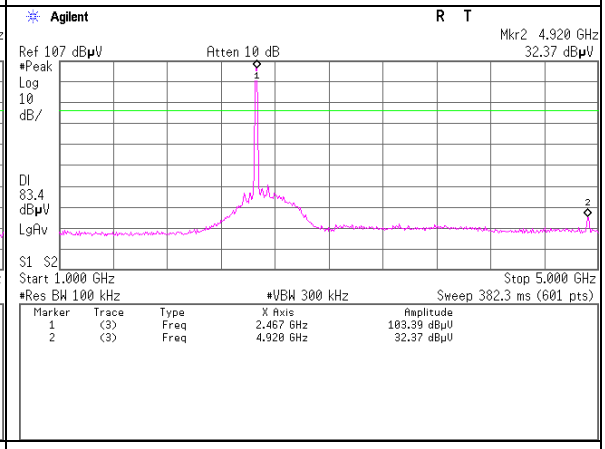
Conducted Spurious Emission
11b, Tx, 11Mbps, Ch: High

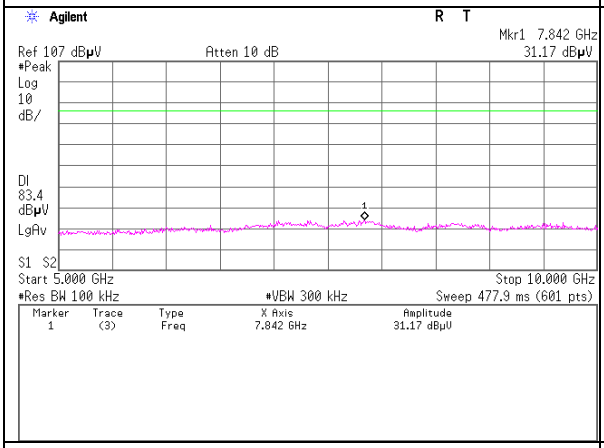
30MHz-1GHz



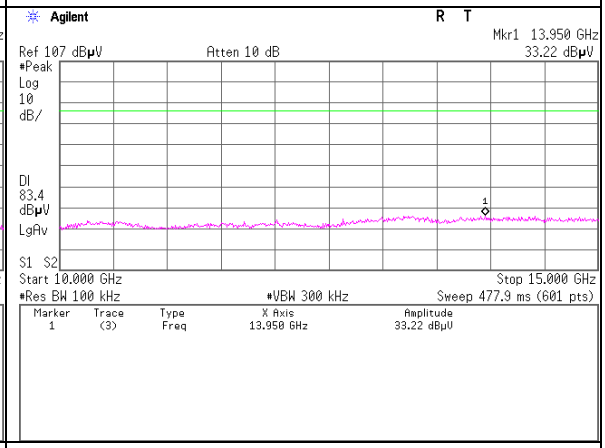
1GHz-5GHz



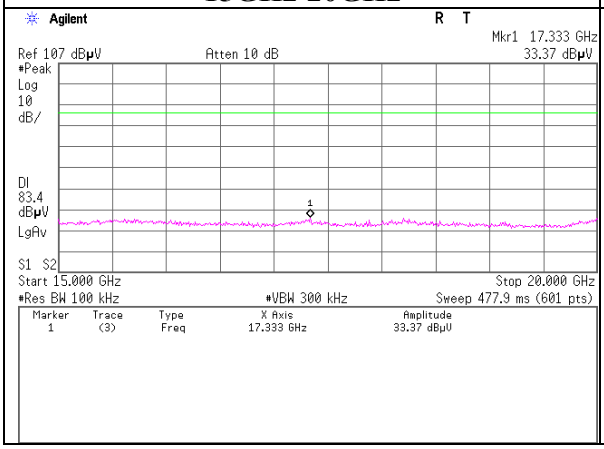
5GHz-10GHz



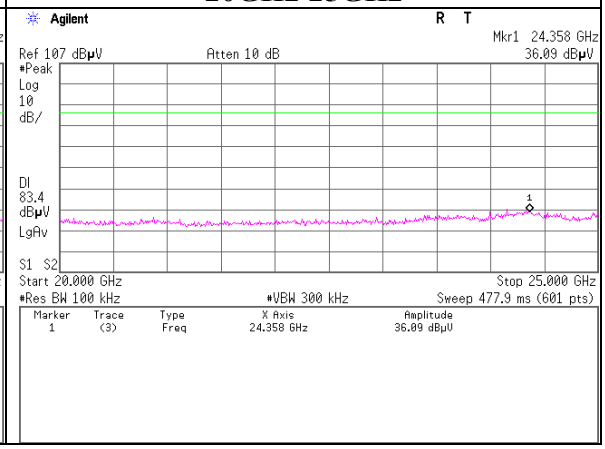
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz



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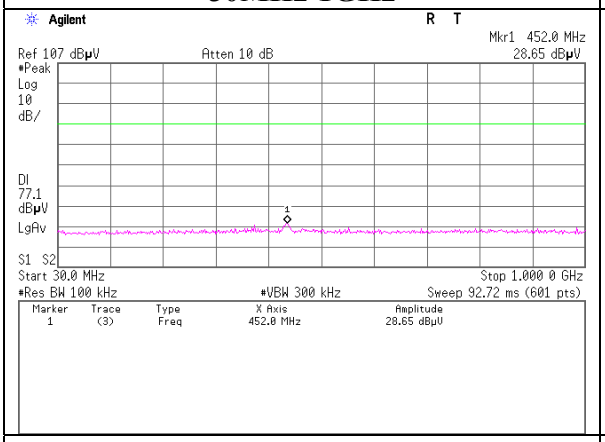
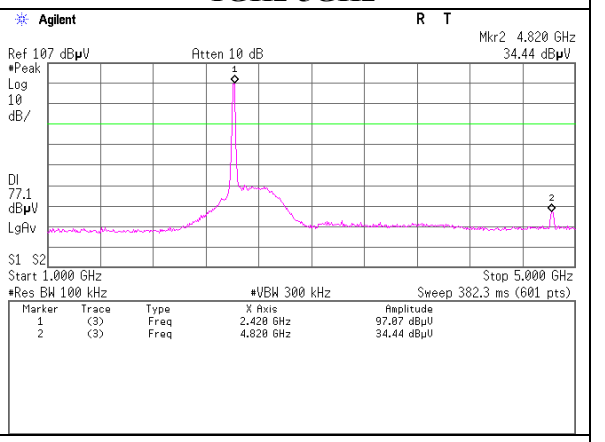
Conducted Spurious Emission
11g, Tx, 18Mbps, Ch: Low

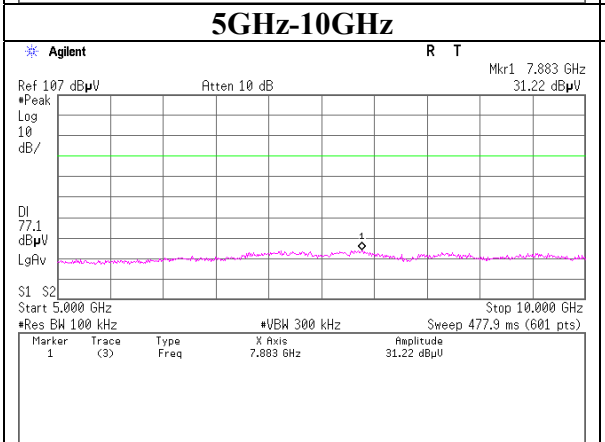
30MHz-1GHz



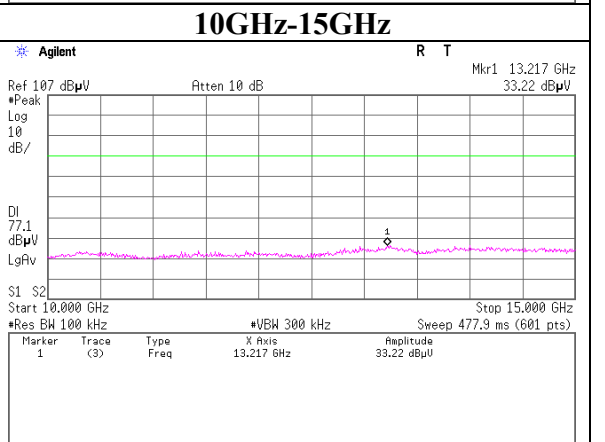
1GHz-5GHz



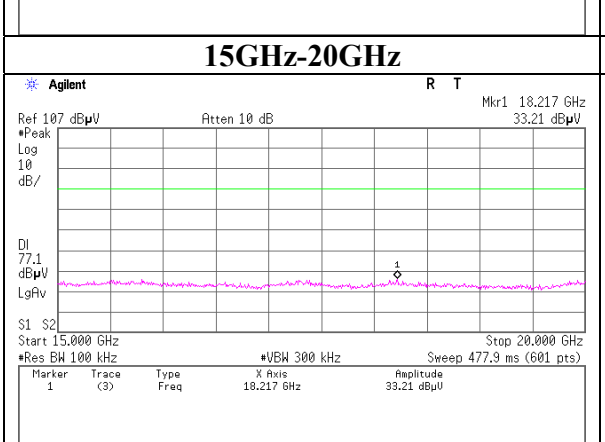
5GHz-10GHz



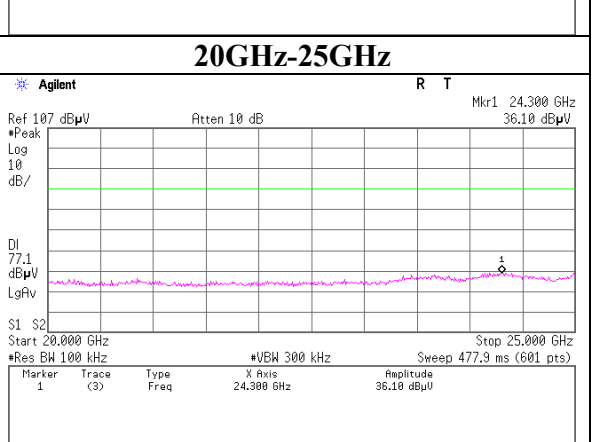
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz



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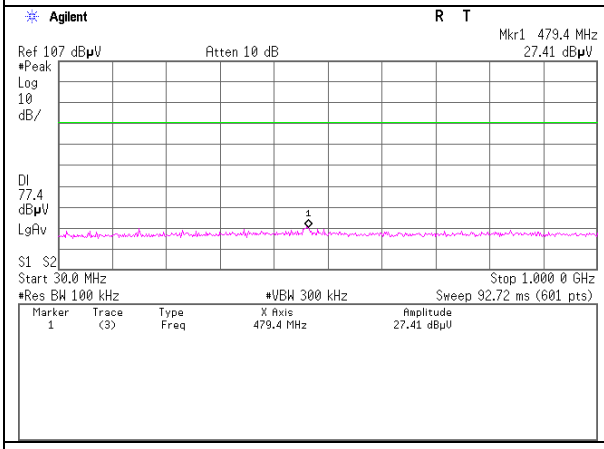
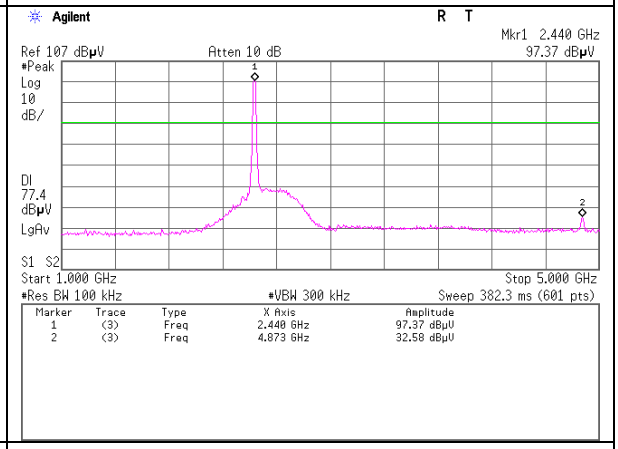
Conducted Spurious Emission
11g, Tx, 18Mbps, Ch: Mid

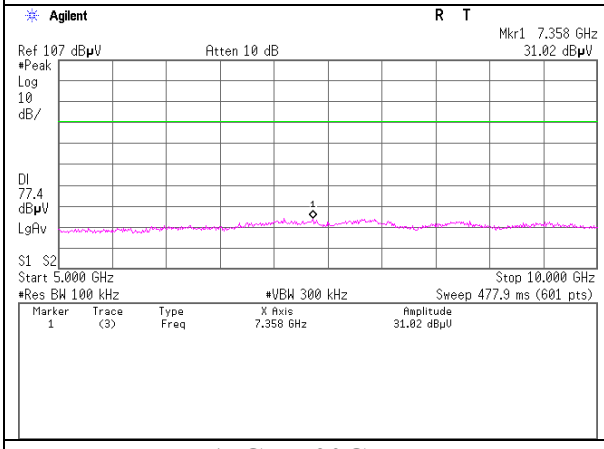
30MHz-1GHz



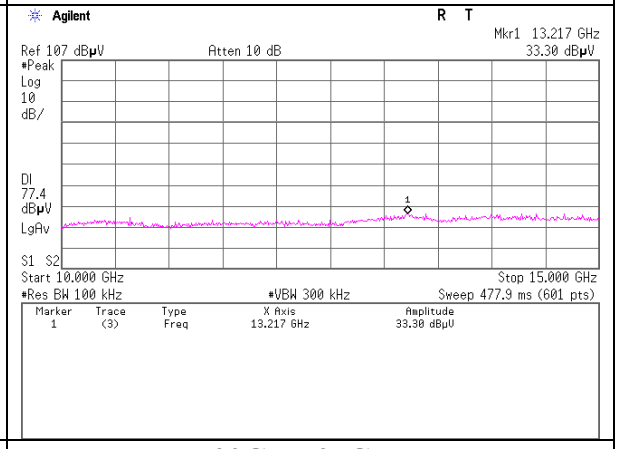
1GHz-5GHz



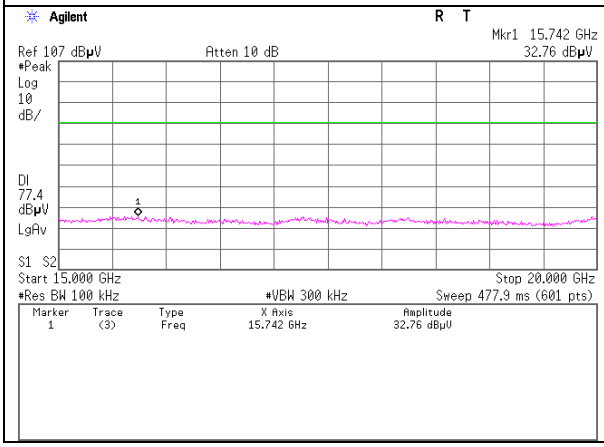
5GHz-10GHz



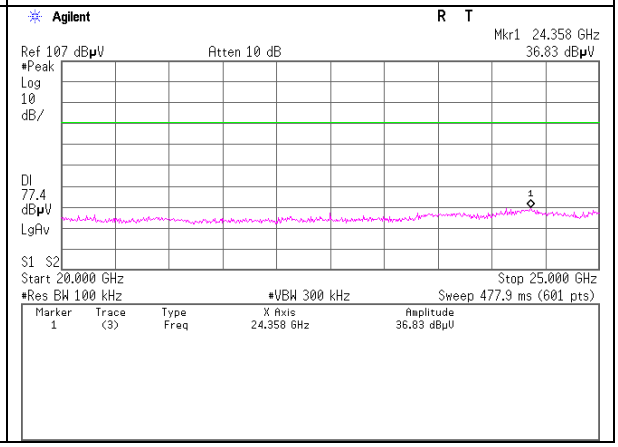
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz



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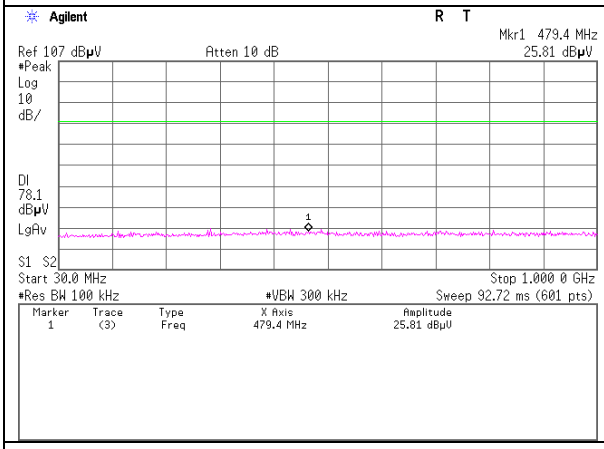
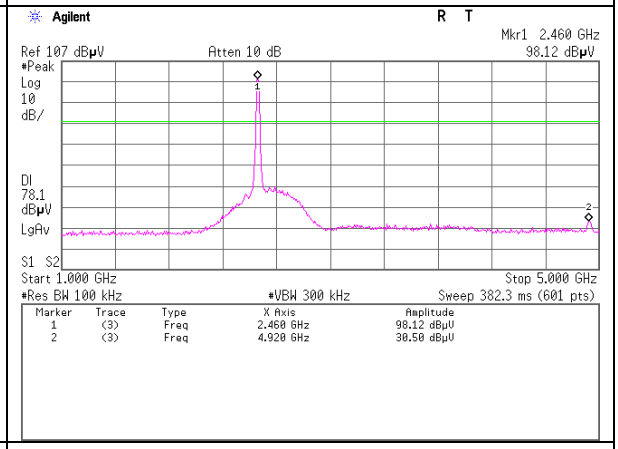
Conducted Spurious Emission
11g, Tx, 18Mbps, Ch: High

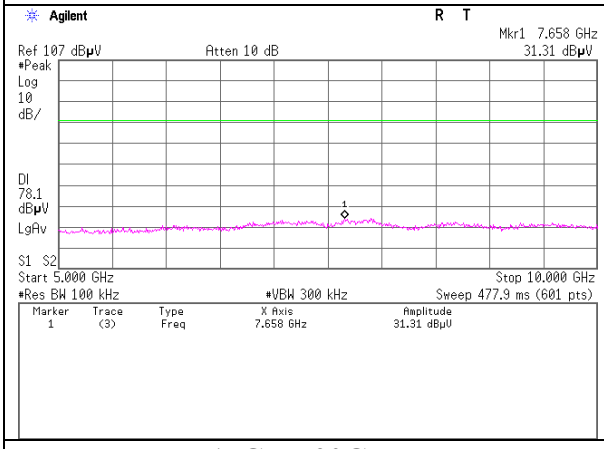
30MHz-1GHz



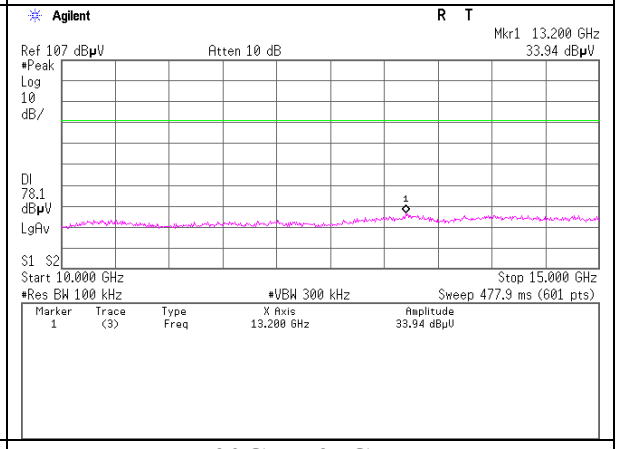
1GHz-5GHz



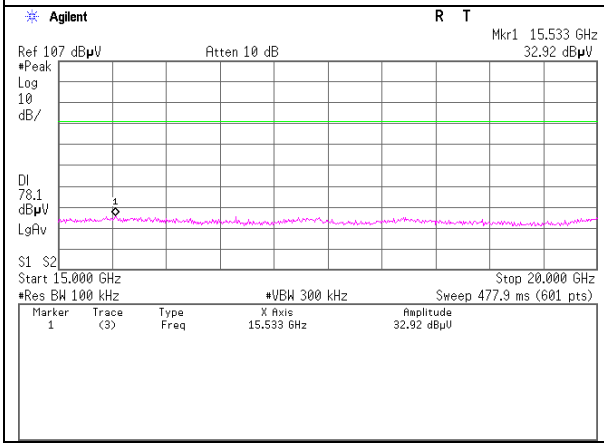
5GHz-10GHz



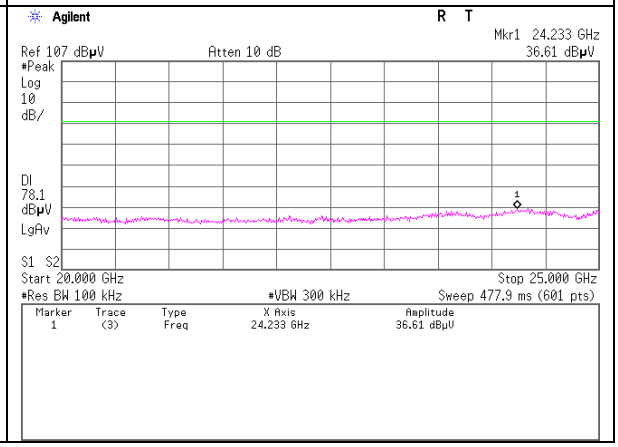
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz



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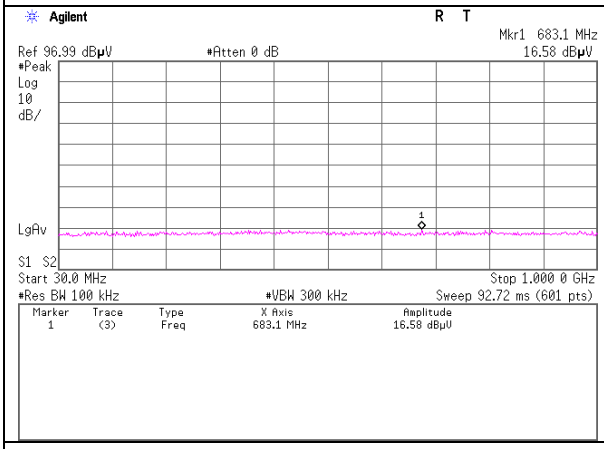
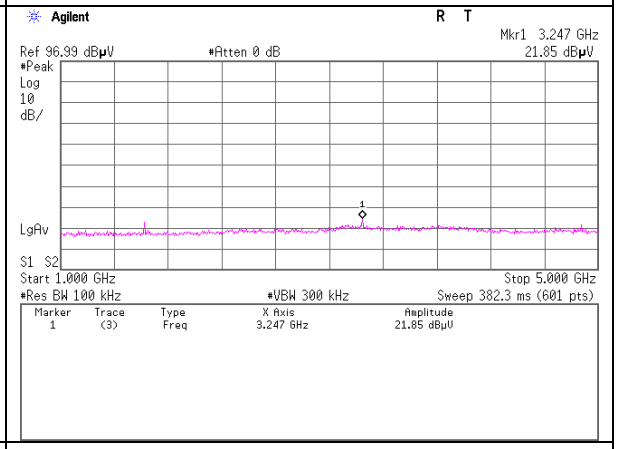
Conducted Spurious Emission
Rx, Ch: Mid

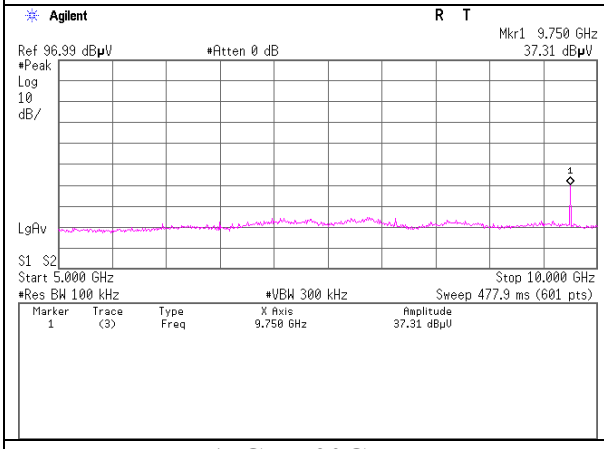
30MHz-1GHz



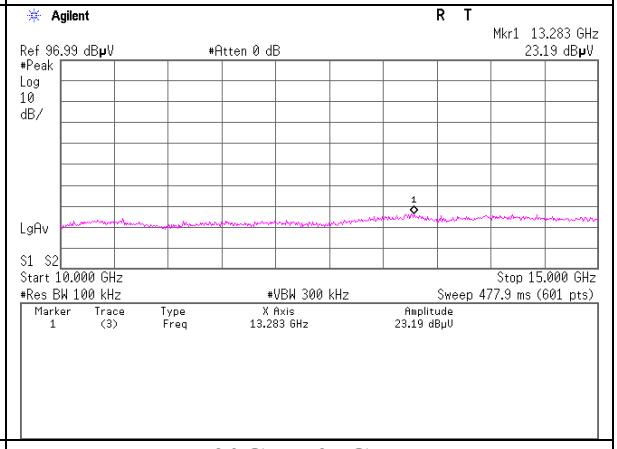
1GHz-5GHz



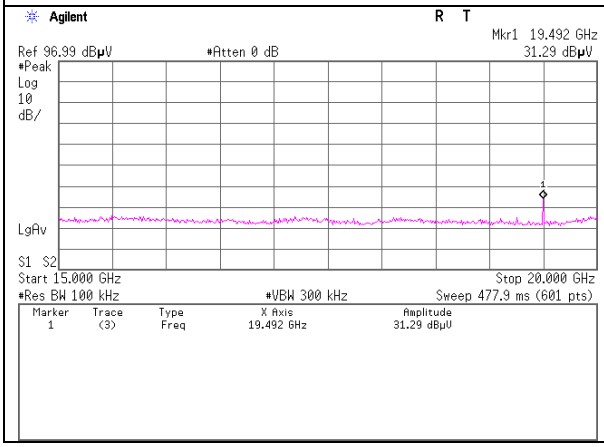
5GHz-10GHz



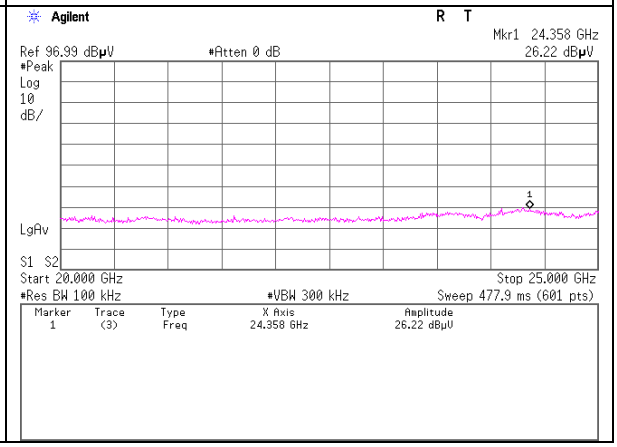
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz



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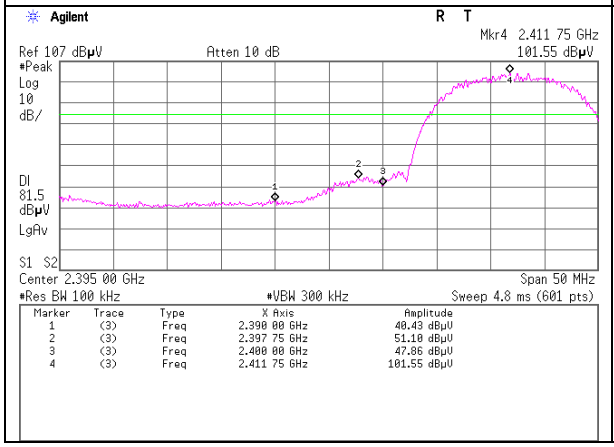
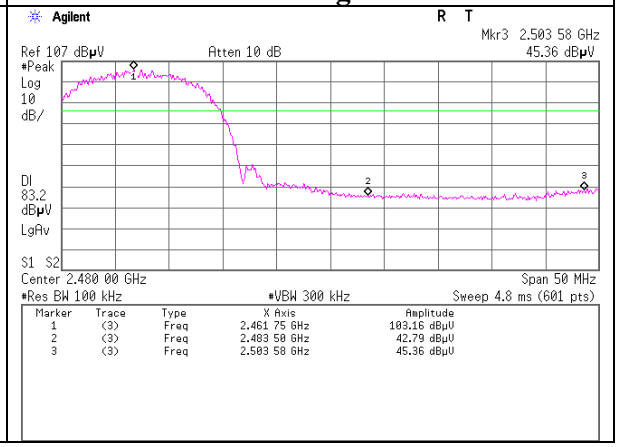
Conducted emission Band Edge compliance

11b, 11Mbps

Ch:Low

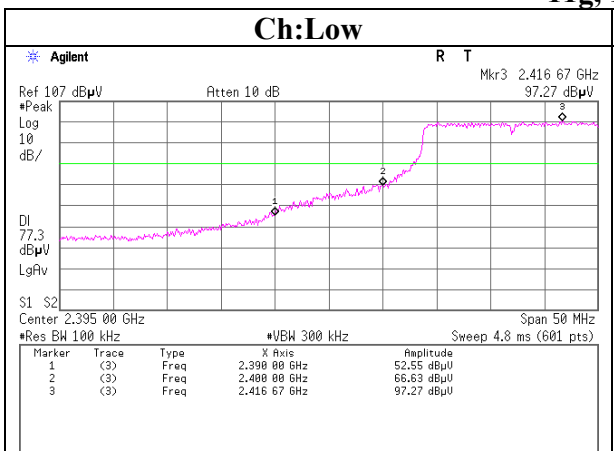


Ch:High

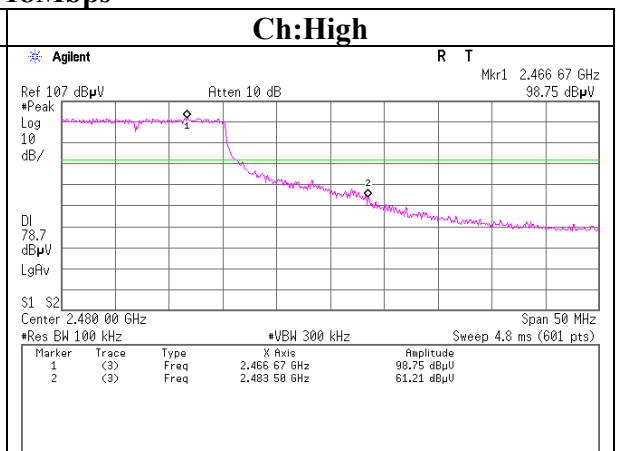


11g, 18Mbps

Ch:Low



Ch:High



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Power Density

UL Japan, Inc.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	: Nagano Japan Radio Co., Ltd.	REGULATION	: FCC15.247(e)/RSS-210A8.2(b)
QUIPMENT	: Wireless LAN Module	TEST DISTANCE	: -
MODEL	: NJT-517	DATE	: 08/21/2007
SAMPLE NO.	: 0013E09DDE77	TEMPERATURE	: 25deg.C.
POWER	: DC3.3V	HUMIDITY	: 49%
MODE	: IEEE802.11b, Tx (Ch L, M, H)	ENGINEER	: Hidekazu Tanaka
	: IEEE802.11g, Tx (Ch L, M, H)		

[IEEE802.11b 11Mbps]

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2412.0	-19.73	1.18	10.02	-8.5	8.0	16.5
Mid	2437.0	-19.38	1.18	10.02	-8.2	8.0	16.2
High	2462.0	-18.03	1.18	10.02	-6.8	8.0	14.8

[IEEE802.11g 18Mbps]

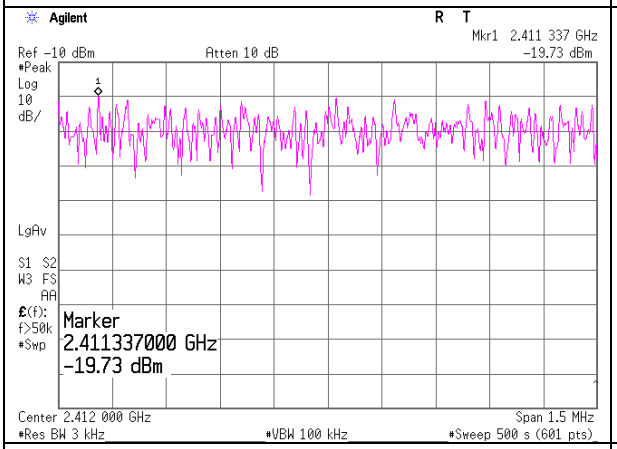
Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2412.0	-21.20	1.18	10.02	-10.0	8.0	18.0
Mid	2437.0	-19.82	1.18	10.02	-8.6	8.0	16.6
High	2462.0	-19.74	1.18	10.02	-8.5	8.0	16.5

Sample Calculation:
Result = Reading + Cable Loss+ Attenuator

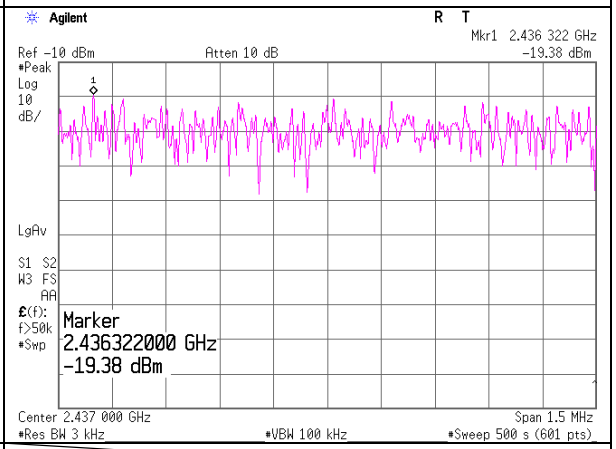
Power Density

11b, 11Mbps

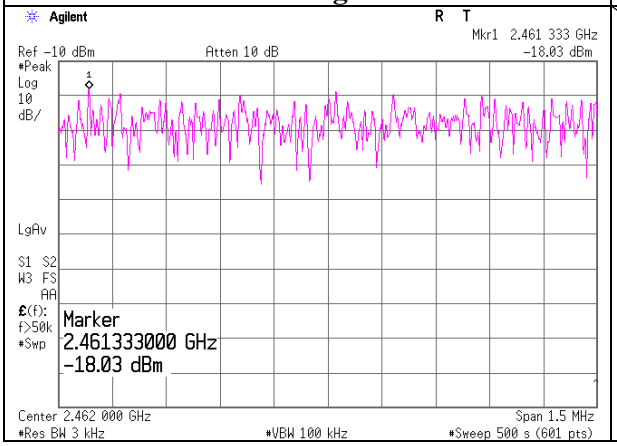
Ch:Low



Ch:Mid



Ch:High



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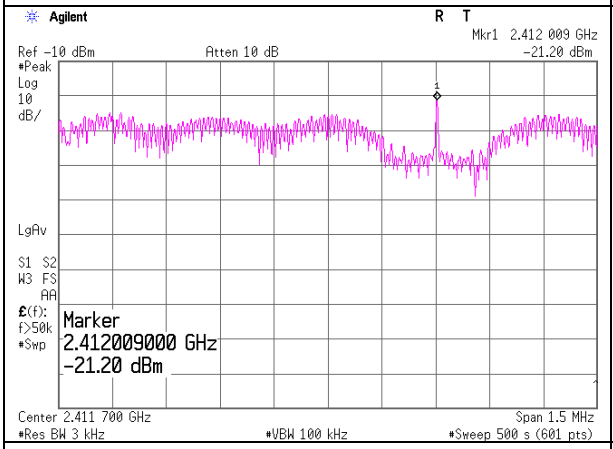
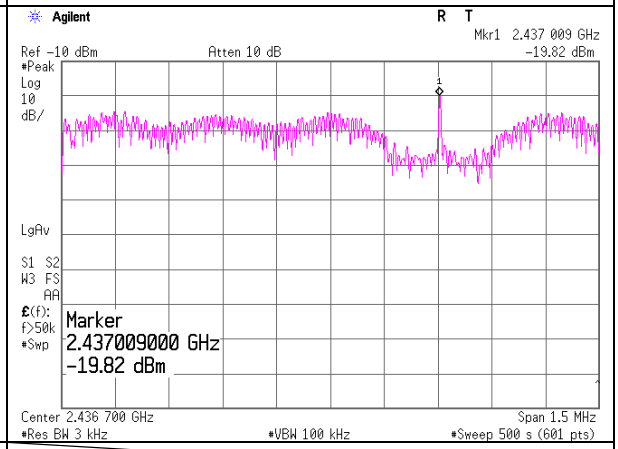
Power Density

11g, 18Mbps

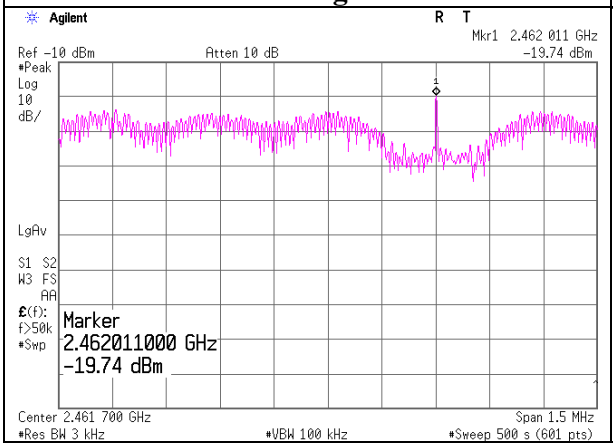
Ch:Low



Ch:Mid



Ch:High



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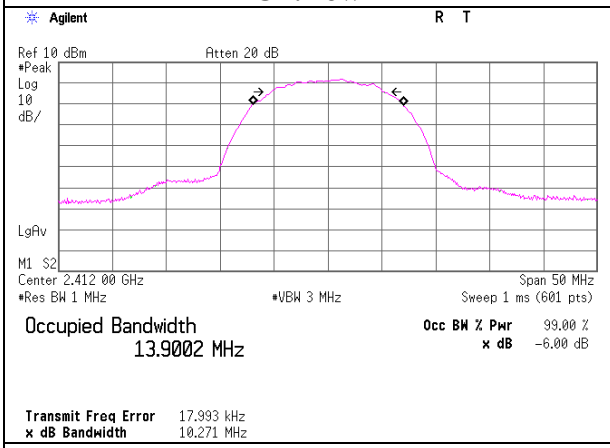
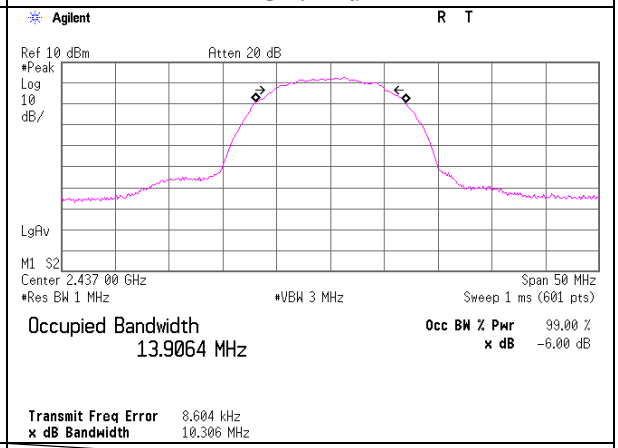
99%Occupied Bandwidth

11b, 11Mbps

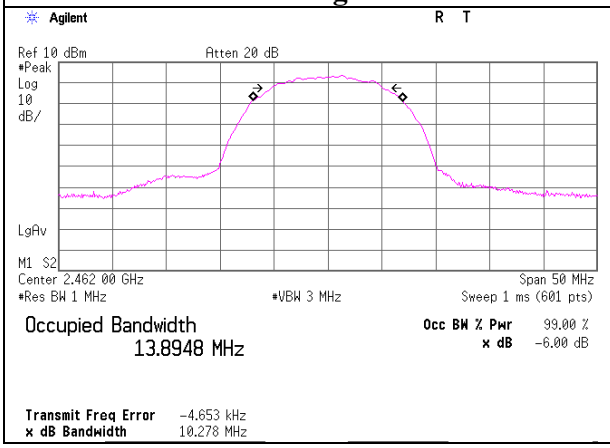
Ch:Low



Ch:Mid



Ch:High



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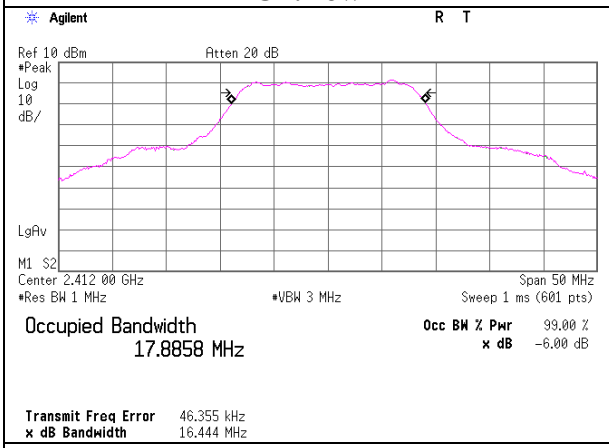
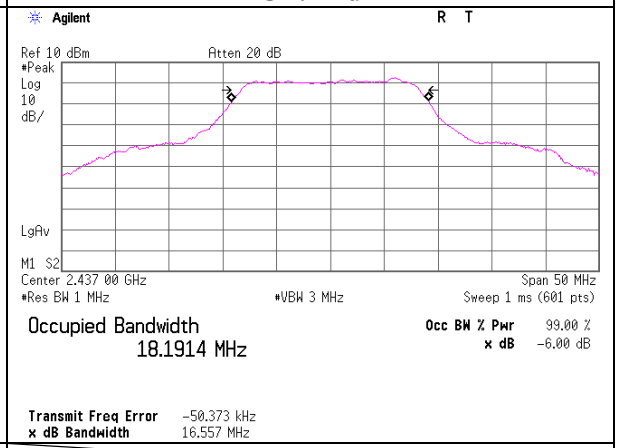
99%Occupied Bandwidth

11g, 18Mbps

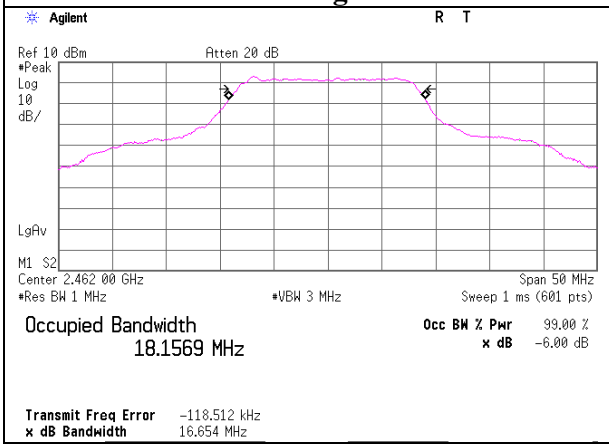
Ch:Low



Ch:Mid



Ch:High



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APPENDIX 3:Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE	2006/11/01 * 12
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/10/07 * 12
MLA-09	Logperiodic Antenna	Schwarzbeck	USLP9143B	RE	2007/01/19 * 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-19	Pre Amplifier	MITEQ	MLA-10K01-B01-35	RE	2007/02/08 * 12
MHA-05	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/01/30 * 12
MHA-01	Horn Antenna 18-26.5G	EMCO	3160-09	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
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	RE/AT	2007/03/07 * 12
MHF-05	High Pass Filter 3.5-18GHz	Tokimec	TF323DCA	RE	2007/01/16 * 12
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE	2007/08/16 * 12
MOS-01	Digital Humidity Indicator	N.T	NT-1800	RE	2006/11/27 * 12
MMM-03	Digital Tester	Fluke	FLUKE 26-3	RE	2007/08/21 * 12
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE/CE	-
MPSU-10	Power Supply	NF	EPO2000S	RE	Pre Check
MJM-01	Measure	KDS	ES19-55	RE	-
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	-
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2007/02/22 * 12
MCC-13	Coaxial Cable	Fujikura/Agilent	-	CE	2007/02/27 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	CE	2007/05/31 * 12
MDPS-04	DC Power Supply	KENWOOD TMI	PW18-1.3AT	CE	Pre Check

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.

***Some calibrations were performed after the tested dates, however those EMI test equipment have been controlled by means of an unbroken chains of calibrations.**

Test Item: **CE: Conducted Emission**
RE: Radiated Emission
AT: Antenna terminal disturbance voltage

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-04	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE/CE	2007/03/03 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	RE/CE	2006/01/19 * 24
MJM-07	Measure	PROMART	SEN1955	RE/CE	-
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/08/16 * 12
MCC-57	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2007/03/30 * 12
MPA-12	MicroWave System Amplifier	Agilent	83017A	RE	2007/03/12 * 12
MSA-05	Spectrum Analyzer	Advantest	R3273	RE/CE	2007/06/01 * 12
MHF-12	High Pass Filter 3.5-18GHz	TOKIMEC	TF323DCA	RE	2006/12/18 * 12
MHA-06	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2007/01/30 * 12
MCC-16	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	RE	2007/02/22 * 12
MCC-47	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2006/08/29 * 12
MPA-10	Pre Amplifier	Agilent	8449B	RE	2006/09/11 * 12
MHF-06	High Pass Filter 3.5-24GHz	Tokimec	TF323DCA	RE	2007/05/30 * 12
MHA-02	Horn Antenna	EMCO	3160-09	RE	2007/01/30 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	RE	2007/06/20 * 12
MLDM-02	Digital laser distance meter	BOSCH	DLE 50	RE	2007/06/21 * 36
MMM-01	Digital Tester	Fluke	FLUKE 26-3	RE	2007/08/21 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/10/07 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2006/10/07 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2006/12/27 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE	2007/02/27 * 12
MPA-09	Pre Amplifier	Agilent	8447D	RE	2006/09/07 * 12
MCC-50	Coaxial cable	UL Japan	-	CE	2007/03/06 * 12
MTR-06	Test Receiver	Rohde & Schwarz	ESCS30	CE	2006/09/12 * 12
MSA-10	Spectrum Analyzer	Agilent	E4448A	AT	2007/07/04 * 12
MPM-09	Power Meter	Anritsu	ML2495A	AT	2006/09/20 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2006/09/20 * 12
MCC-06	Microwave Cable 1G-26.5GHz 1m	Suhner	SUCOFLEX 104	AT	2007/02/26 * 12
MOS-04	Digital Humidity Indicator	N.T	NT-1800	AT	2006/11/27 * 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.

***Some calibrations were performed after the tested dates, however those EMI test equipment have been controlled by means of an unbroken chains of calibrations.**

Test Item: **CE: Conducted Emission**
RE: Radiated Emission
AT: Antenna terminal disturbance voltage