APPENDIX 2: Data of EMI test

Maximum Peak Output Power

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

Company	silex technology, Inc.		
Equipment	MiniPCI Wireless LAN board	Regulation	FCC Section 15.247(b)(3) / RSS-210 A8.4(4)
Model	SX-10WAG	Test Distance	-
S/N	32	Date	February 21, 2008
Power	DC 3.3V (PC input AC 120V / 60Hz)	Temperature	23 deg.C.
Mode	11a, Tx, Ant:A, 54Mbps,	Humidity	34 %
		Engineer	Kenichi Adachi

ANT: A (Worst), 54Mbps (Worst)

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
165	5825.0	1.43	1.50	10.15	13.08	30.00	16.92

ANT: B (Reference), 54Mbps

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
165	5825.0	1.41	1.50	10.15	13.06	30.00	16.94

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

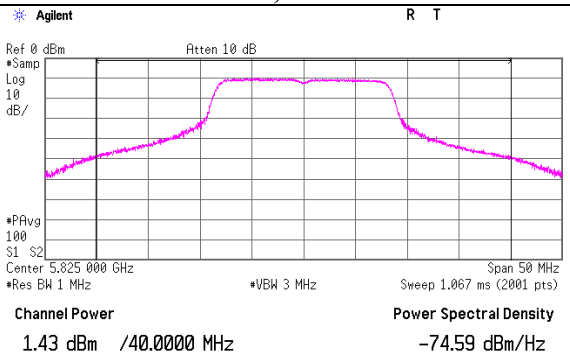
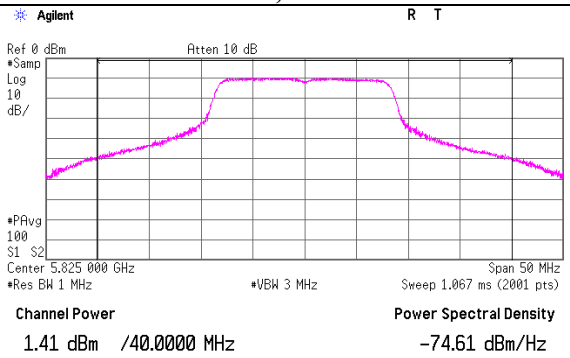
Reference data
ANT: A (Worst), 5765MHz

Rate [Mbps]	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
6	5765.0	1.78	1.41	10.14	13.33	30.00	16.67
9	5765.0	1.81	1.41	10.14	13.36	30.00	16.64
12	5765.0	1.85	1.41	10.14	13.40	30.00	16.60
18	5765.0	1.96	1.41	10.14	13.51	30.00	16.49
24	5765.0	1.82	1.41	10.14	13.37	30.00	16.63
36	5765.0	1.78	1.41	10.14	13.33	30.00	16.67
48	5765.0	1.83	1.41	10.14	13.38	30.00	16.62
54	5765.0	1.97	1.41	10.14	**13.52**	30.00	**16.48**

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

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

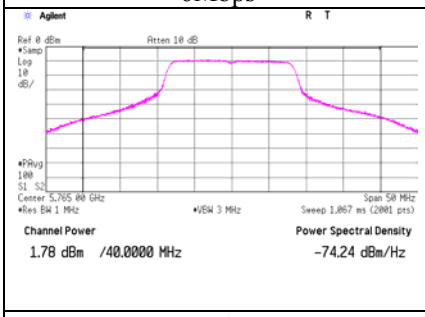
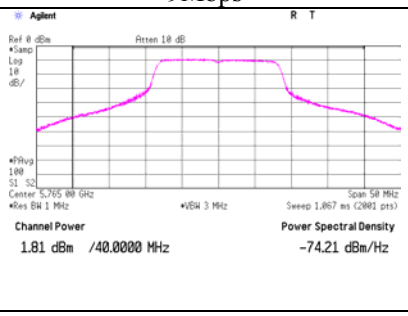
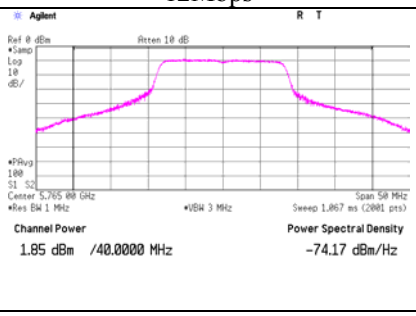
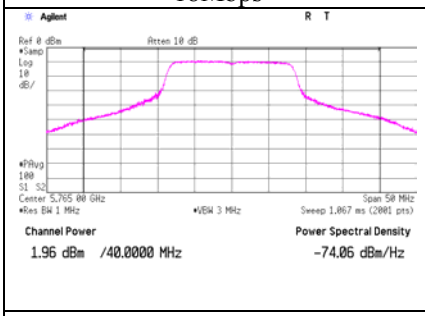
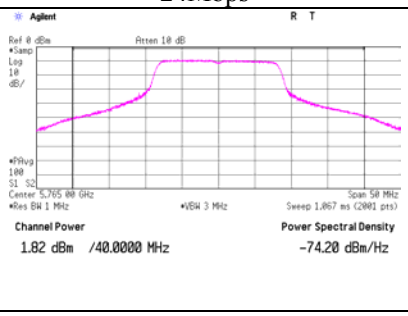
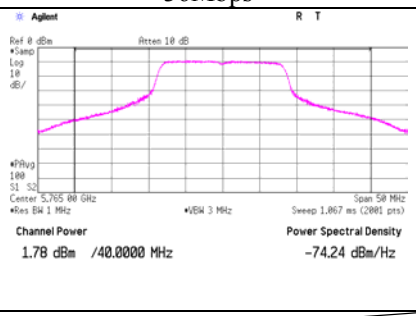
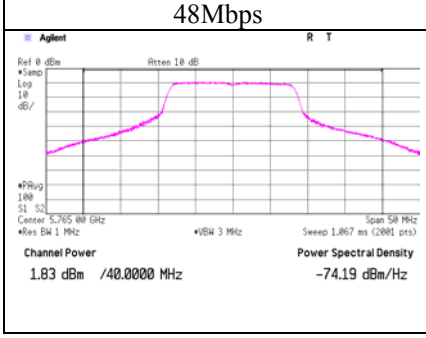
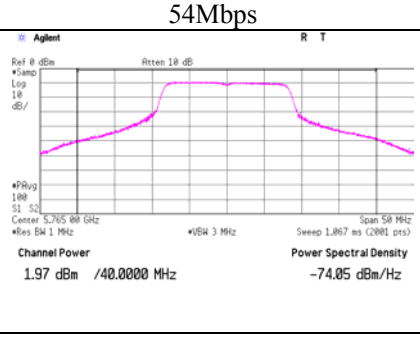
Maximum Peak Output Power

Ch:165, ANT: A	Ch:165, ANT: B
	

Maximum Peak Output Power

(Reference data)

ANT: A, Tx 5765MHz

6Mbps	9Mbps	12Mbps
		
18Mbps	**24Mbps**	**36Mbps**
		
48Mbps	**54Mbps**	
		

Conducted Emission

11a, Tx, 5825MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

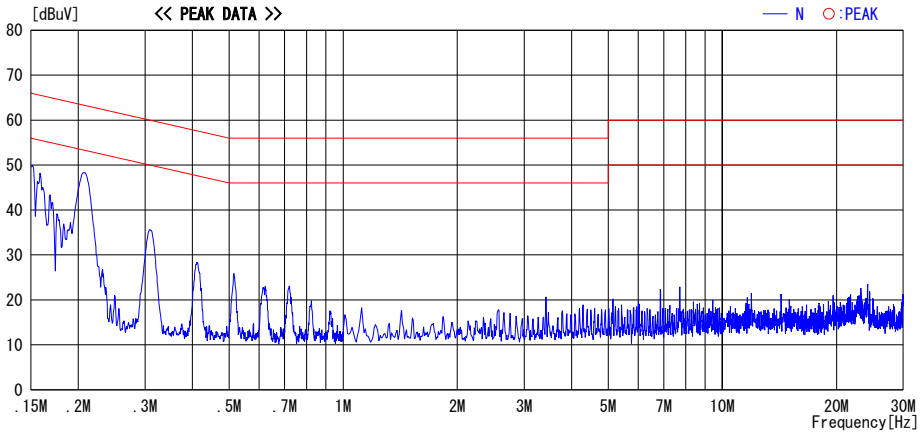
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/02/20

Company	: silex technology Inc.	Report No.	: 28CE0213-HO-01
Kind of EUT	: MiniPCI Wireless LAN board	Power	: DC3.3V (PC input AC120V/60Hz)
Model No.	: SX-10WAG + HG5808U + Cable5 + Cable7	Temp./Humi.	: 26deg.C / 31%
Serial No.	: 32 + 1	Operator	: Kenichi Adachi

Mode / Remarks : Tx 5825MHz / 11a / 54Mbps / Ant:A

LIMIT : FCC15.207 QP
FCC15.207 AV



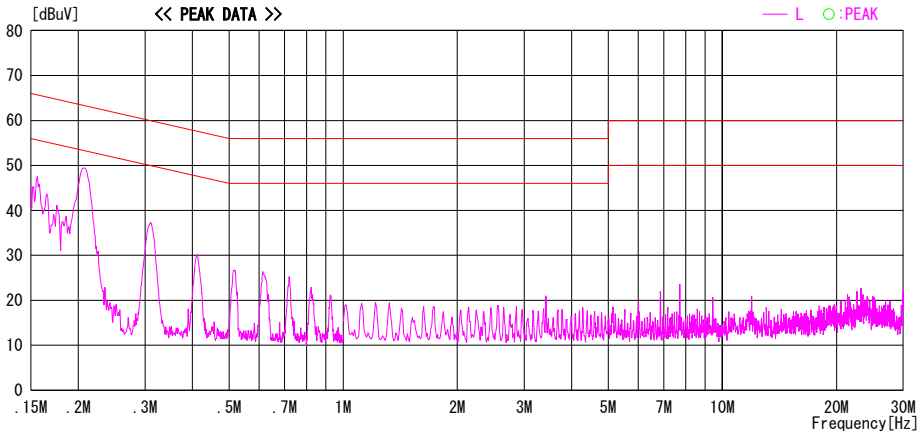


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Tx, 5825MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

DATA OF CONDUCTED EMISSION TEST

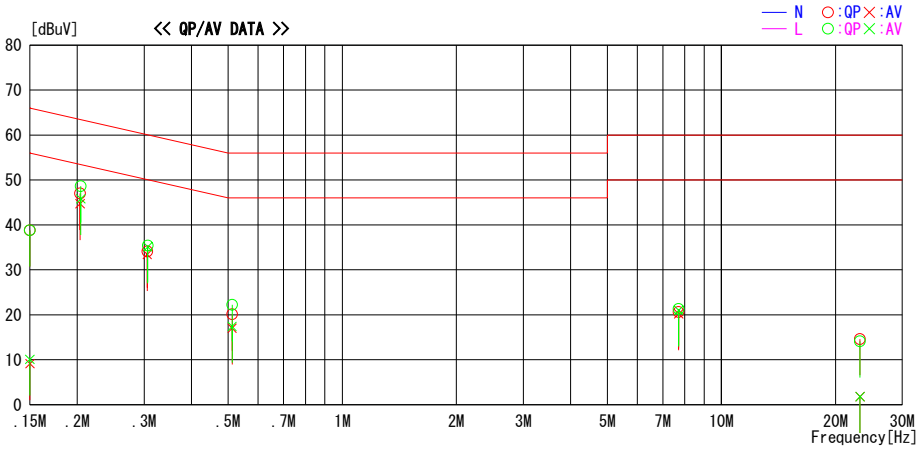
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/02/20

Company : silex technology Inc.
Kind of EUT : MiniPCI Wireless LAN board
Model No. : SX-10WAG + HG5808U + Cable5 + Cable7
Serial No. : 32 + 1

Report No. : 28CE0213-HO-01
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 26deg.C / 31%
Operator : Kenichi Adachi

Mode / Remarks : Tx 5825MHz / 11a / 54Mbps / Ant:A

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase	Comment
	QP	AV	Factor	QP	AV	QP	AV	QP	AV		
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]		
0.15008	38.5	8.8	0.3	38.8	9.1	66.0	56.0	27.2	46.9	N	
0.20348	46.7	44.4	0.3	47.0	44.7	63.5	53.5	16.5	8.8	N	
0.30605	33.8	33.1	0.3	34.1	33.4	60.1	50.1	26.0	16.7	N	
0.51223	19.8	16.7	0.3	20.1	17.0	56.0	46.0	35.9	29.0	N	
7.71007	19.6	19.2	1.0	20.6	20.2	60.0	50.0	39.4	29.8	N	
23.19399	12.8	0.0	1.8	14.6	1.8	60.0	50.0	45.4	48.2	N	
0.15002	38.5	9.8	0.3	38.8	10.1	66.0	56.0	27.2	45.9	L	
0.20423	48.3	45.5	0.3	48.6	45.8	63.4	53.4	14.8	7.6	L	
0.30708	35.1	34.8	0.3	35.4	35.1	60.0	50.0	24.6	14.9	L	
0.51234	21.9	17.1	0.3	22.2	17.4	56.0	46.0	33.8	28.6	L	
7.71132	20.3	20.0	1.0	21.3	21.0	60.0	50.0	38.7	29.0	L	
23.19557	12.3	0.0	1.8	14.1	1.8	60.0	50.0	45.9	48.2	L	

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

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

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

Conducted Emission

11a, Tx, 5825MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

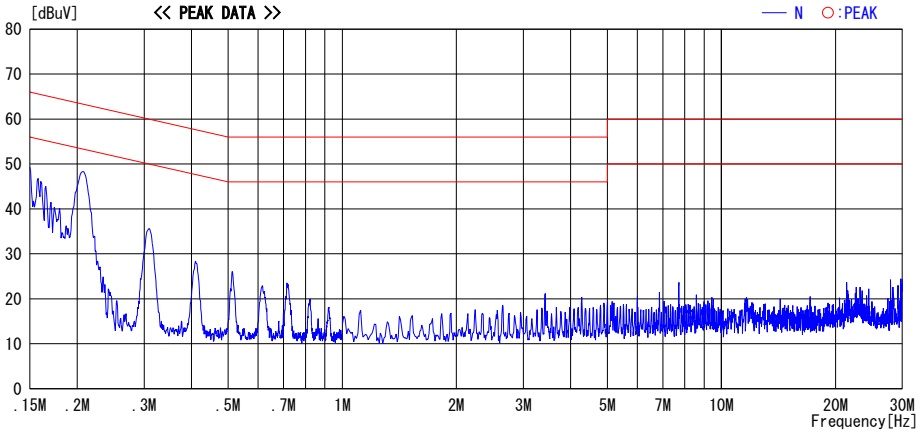
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/02/19

Company	: silex technology Inc.	Report No.	: 28CE0213-HO-01
Kind of EUT	: MiniPCI Wireless LAN board	Power	: DC3.3V (PC input AC120V/60Hz)
Model No.	: SX-10WAG + HG5817D + Cable5 + Cable7	Temp./Humi.	: 26deg.C / 31%
Serial No.	: 32 + 1	Operator	: Kenichi Adachi

Mode / Remarks : Tx 5825MHz / 11a / 54Mbps / Ant:A

LIMIT : FCC15.207 QP
FCC15.207 AV



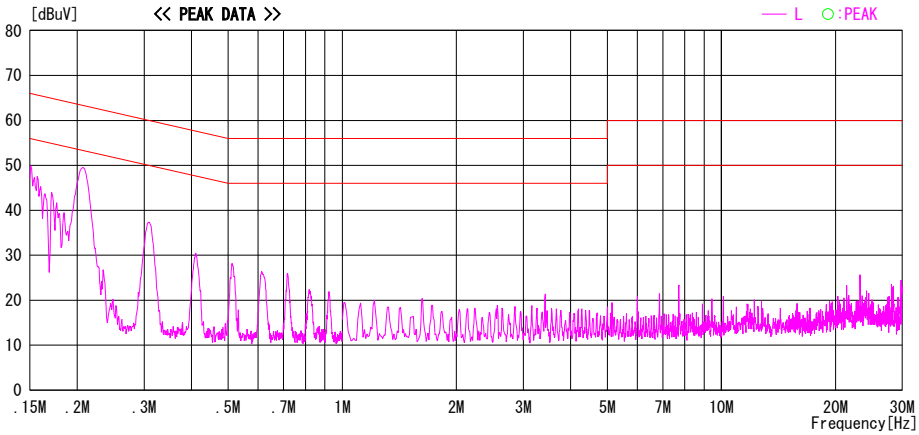


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Tx, 5825MHz (SX-10WAG + CA-RSPNMA004 + SR49120WDA)

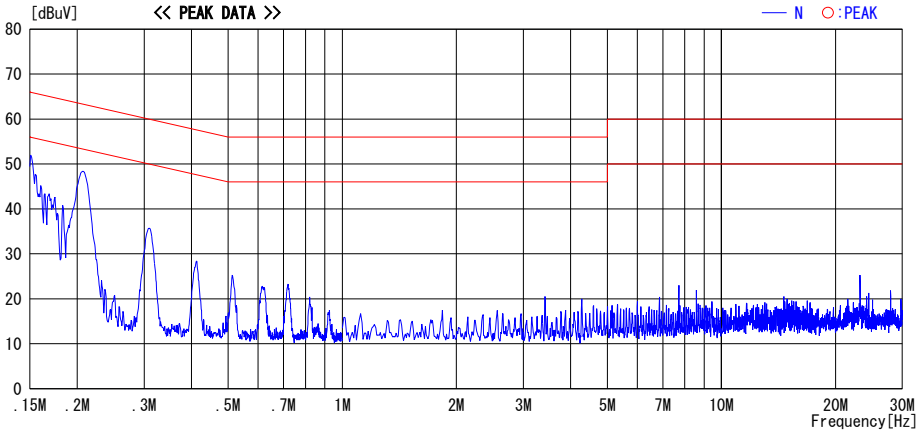
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/02/20

Company	: silex technology Inc.	Report No.	: 28CE0213-HO-01
Kind of EUT	: MiniPCI Wireless LAN board	Power	: DC3.3V (PC input AC120V/60Hz)
Model No.	: SX-10WAG + SR49120WDA + Cable4	Temp./Humi.	: 26deg.C / 31%
Serial No.	: 32 + 1	Operator	: Kenichi Adachi

Mode / Remarks : Tx 5825MHz / 11a / 54Mbps / Ant:A

LIMIT : FCC15.207 QP
FCC15.207 AV



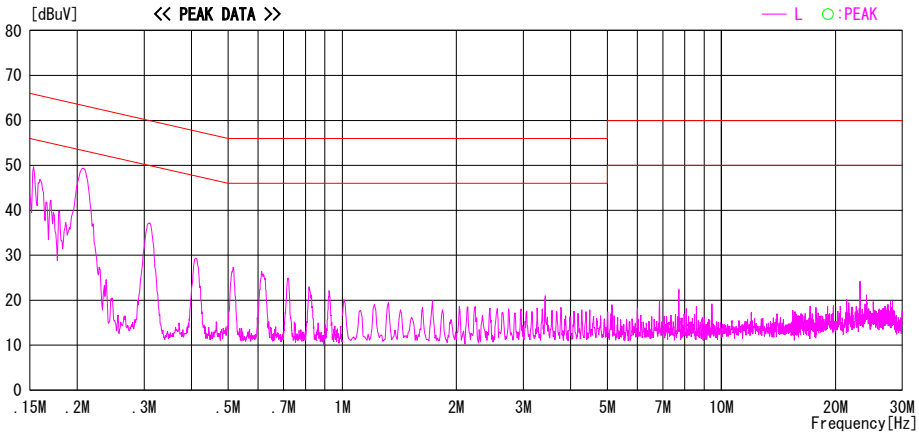


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Rx, 5825MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

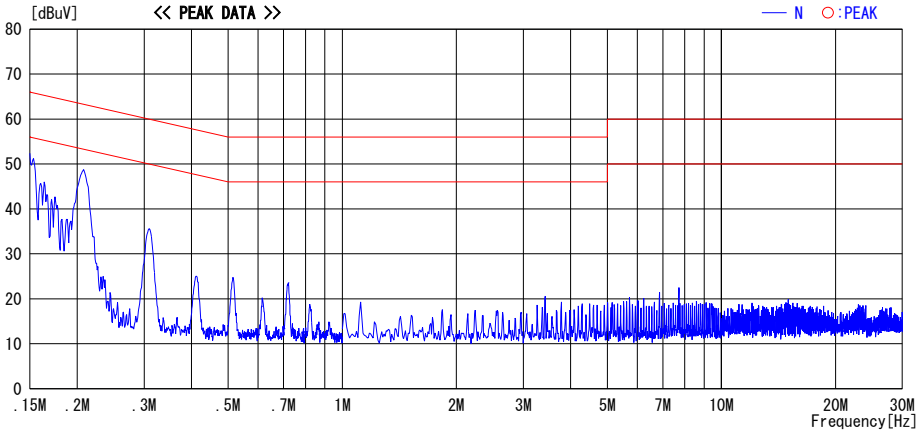
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/02/20

Company	: silex technology Inc.	Report No.	: 28CE0213-HO-01
Kind of EUT	: MiniPCI Wireless LAN board	Power	: DC3.3V (PC input AC120V/60Hz)
Model No.	: SX-10WAG + HG5808U + Cable5 + Cable7	Temp./Humi.	: 26deg.C / 31%
Serial No.	: 32 + 1	Operator	: Kenichi Adachi

Mode / Remarks : Rx 5825MHz / 11a / Ant:A

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



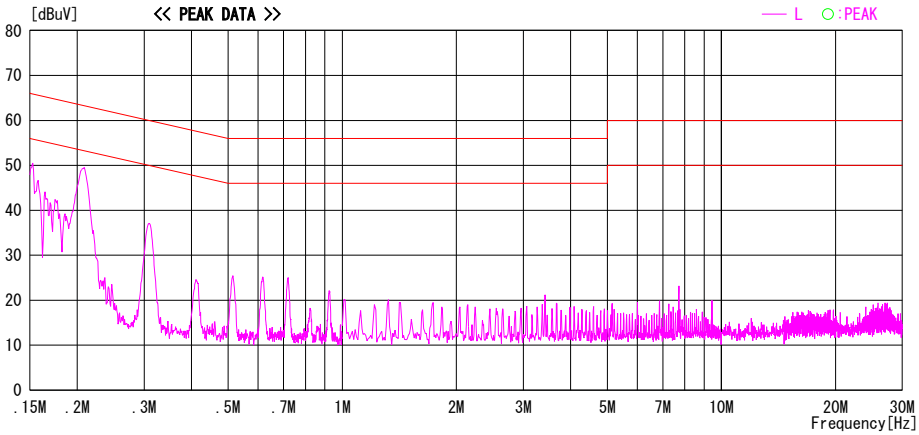


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Rx, 5825MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

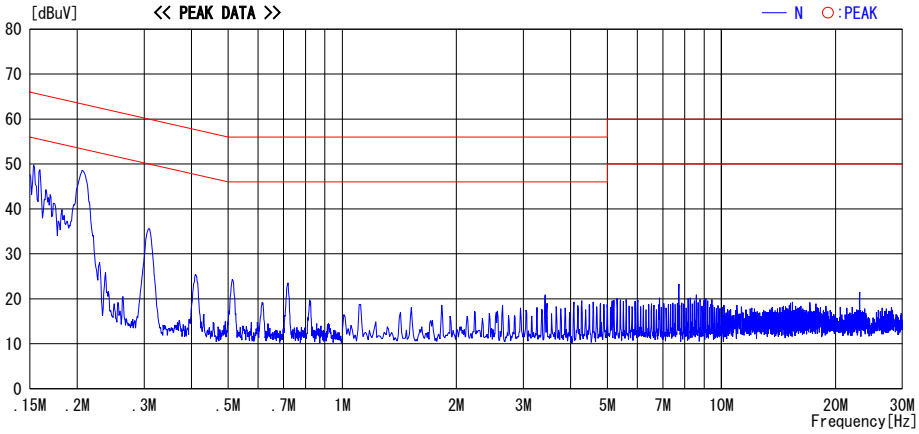
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/02/20

Company	: silex technology Inc.	Report No.	: 28CE0213-HO-01
Kind of EUT	: MiniPCI Wireless LAN board	Power	: DC3.3V (PC input AC120V/60Hz)
Model No.	: SX-10WAG + HG5817D + Cable5 + Cable7	Temp./Humi.	: 26deg.C / 31%
Serial No.	: 32 + 1	Operator	: Kenichi Adachi

Mode / Remarks : Rx 5825MHz / 11a / Ant:A

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



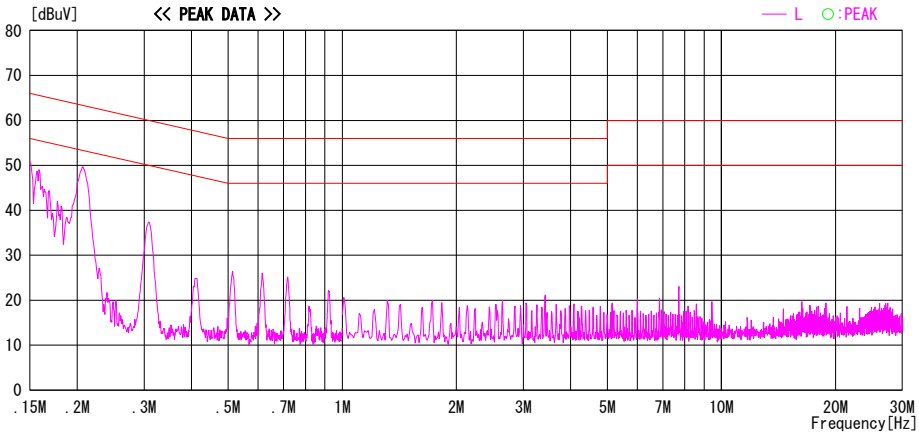


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Rx, 5825MHz (SX-10WAG + CA-RSPNMA004 + SR49120WDA)

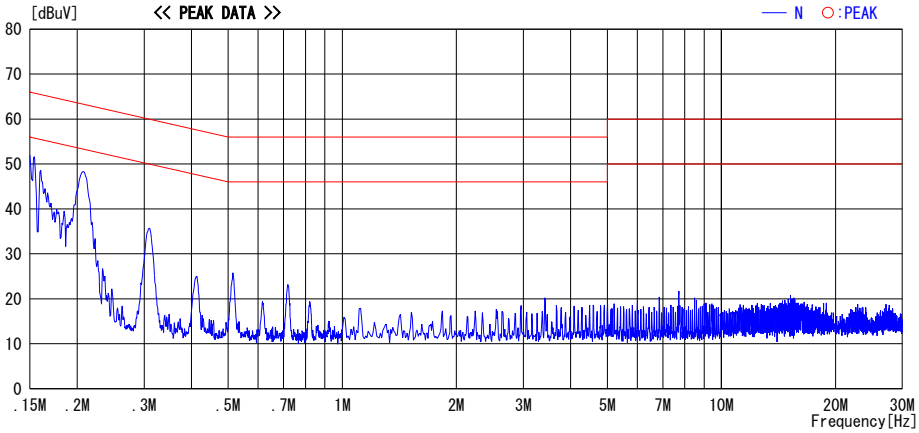
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/02/20

Company	: silex technology Inc.	Report No.	: 28CE0213-HO-01
Kind of EUT	: MiniPCI Wireless LAN board	Power	: DC3.3V (PC input AC120V/60Hz)
Model No.	: SX-10WAG + SR49120WDA + Cable4	Temp./Humi.	: 26deg.C / 31%
Serial No.	: 32 + 1	Operator	: Kenichi Adachi

Mode / Remarks : Rx 5825MHz / 11a / Ant:A

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



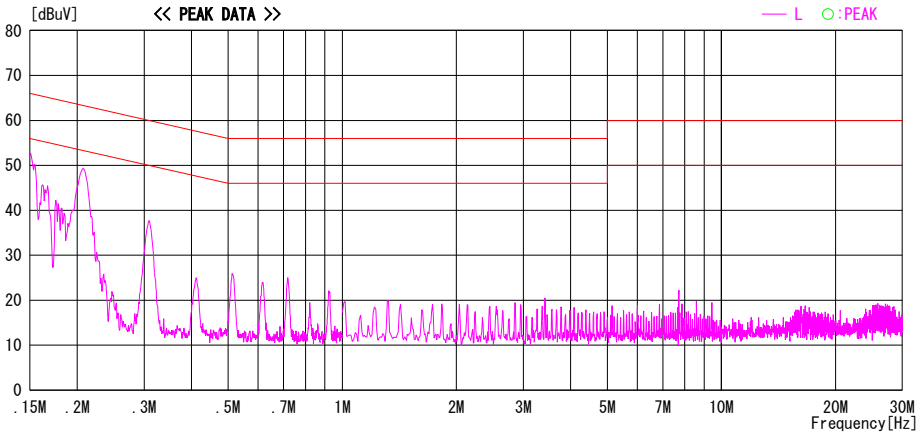


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Radiated Spurious Emission (below 1GHz)

11a, Tx, 5825MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

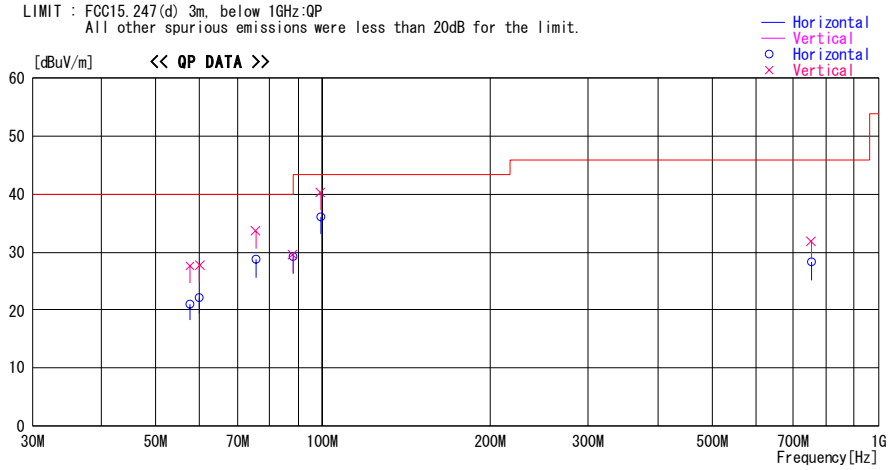
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/02/08

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN board
Model No. : SX-10WAG + HG5808U + Cable5 + Cable7
Serial No. : 32 + 1
Report No. : 28CE0213-HO-01
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 24deg.C / 27%
Operator : Satofumi Matsuyama

Mode / Remarks : Tx 5825MHz / 11a / 54Mbps / Ant:A / module-axis: H:Z, V:Z / Antenna-axis: normal-axis

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
57.631	43.9	QP	8.3	-24.5	27.7	152	100	Vert.	40.0	12.3	
57.654	37.3	QP	8.3	-24.5	21.1	156	300	Hori.	40.0	18.9	
60.027	38.9	QP	7.8	-24.4	22.3	121	300	Hori.	40.0	17.7	
60.037	44.5	QP	7.8	-24.4	27.9	154	100	Vert.	40.0	12.1	
75.563	46.5	QP	6.5	-24.2	28.8	329	300	Hori.	40.0	11.2	
75.548	51.4	QP	6.5	-24.2	33.7	285	100	Vert.	40.0	6.3	
88.053	46.0	QP	7.8	-24.1	29.7	191	100	Vert.	43.5	13.8	
88.079	45.7	QP	7.8	-24.1	29.4	327	220	Hori.	43.5	14.1	
99.227	50.4	QP	9.8	-24.0	36.2	152	194	Hori.	43.5	7.3	
99.225	54.5	QP	9.8	-24.0	40.3	98	100	Vert.	43.5	3.2	
751.687	30.5	QP	20.9	-19.4	32.0	132	137	Vert.	46.0	14.0	
751.690	26.8	QP	20.9	-19.4	28.3	9	100	Hori.	46.0	17.7	

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

*Cable 5: CA-RSPNMA010, Cable 7: CA-NMNFA004.
*The test result is rounded off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)

11a, Tx, 5825MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

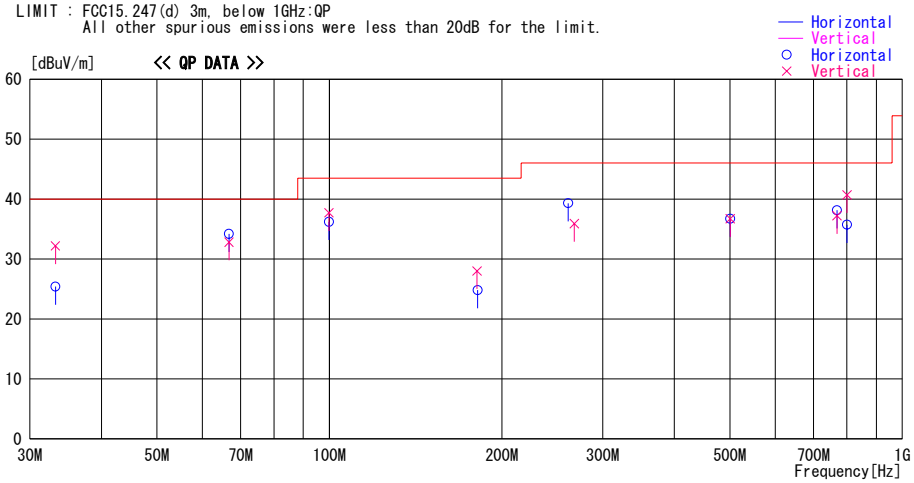
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/02/11

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN board
Model No. : SX-10WAG + HG5817D + Cable5 + Cable7
Serial No. : 32 + 1
Report No. : 28CE0213-HO-01
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 24deg.C / 33%
Operator : Tomotaka Sasagawa

Mode / Remarks : Tx 5825MHz / 11a / 54Mbps / Ant:A / module-axis: H:Z, V:Z / Antenna-axis: normal

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



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]	
33.246	30.1	QP	17.3	-22.0	25.4	3	300	Hori.	40.0	14.6	
33.246	36.9	QP	17.3	-22.0	32.2	236	100	Vert.	40.0	7.8	
66.794	48.6	QP	7.1	-21.5	34.2	0	300	Hori.	40.0	5.8	
66.794	47.2	QP	7.1	-21.5	32.8	79	100	Vert.	40.0	7.2	
99.800	47.5	QP	9.9	-21.2	36.2	114	300	Hori.	43.5	7.3	
99.800	49.0	QP	9.9	-21.2	37.7	3	100	Vert.	43.5	5.8	
180.962	31.9	QP	16.3	-20.2	28.0	353	100	Vert.	43.5	15.5	
181.503	28.7	QP	16.3	-20.2	24.8	271	300	Hori.	43.5	18.7	
261.041	40.8	QP	17.8	-19.3	39.3	26	300	Hori.	46.0	6.7	
267.534	36.9	QP	18.2	-19.2	35.9	130	100	Vert.	46.0	10.1	
500.601	38.7	QP	17.5	-19.5	36.7	227	100	Hori.	46.0	9.3	
500.601	38.7	QP	17.5	-19.5	36.7	153	100	Vert.	46.0	9.3	
768.541	34.8	QP	21.4	-18.1	38.1	95	100	Hori.	46.0	7.9	
768.541	33.9	QP	21.4	-18.1	37.2	119	100	Vert.	46.0	8.8	
800.806	31.8	QP	21.7	-17.8	35.7	53	100	Hori.	46.0	10.3	
800.806	36.8	QP	21.7	-17.8	40.7	173	100	Vert.	46.0	5.3	

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)

*Cable 5: CA-RSPNMA010, Cable 7: CA-NMNFA004.
*The test result is rounded off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)

11a, Tx, 5825MHz (SX-10WAG + CA-RSPNMA004 + SR49120WDA)

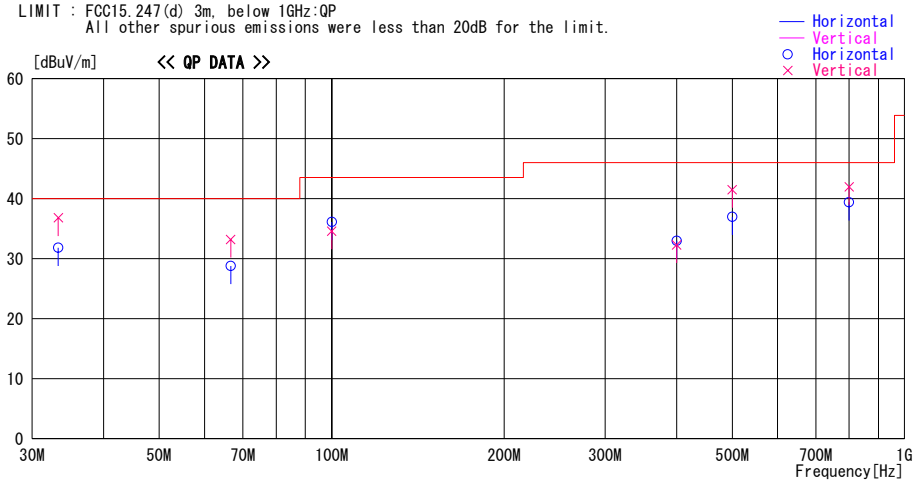
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/02/10

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN board
Model No. : SX-10WAG + SR49120WDA + Cable4
Serial No. : 32 + 1
Report No. : 28CE0213-HO-01
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 25deg.C / 30%
Operator : Kenichi Adachi

Mode / Remarks : Tx 5825MHz / 11a / 54Mbps / Ant:A / module-axis: H:Z, V:Z / Antenna-axis: normal

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



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]	
33.333	36.6	QP	17.2	-22.0	31.8	169	181	Hori.	40.0	8.2	
33.333	41.6	QP	17.2	-22.0	36.8	180	100	Vert.	40.0	3.2	
66.667	43.2	QP	7.1	-21.5	28.8	11	400	Hori.	40.0	11.2	
66.667	47.6	QP	7.1	-21.5	33.2	62	139	Vert.	40.0	6.8	
100.000	47.3	QP	10.0	-21.2	36.1	132	258	Hori.	43.5	7.4	
100.000	45.8	QP	10.0	-21.2	34.6	346	104	Vert.	43.5	8.9	
400.000	34.9	QP	17.4	-19.3	33.0	345	100	Hori.	46.0	13.0	
400.000	34.2	QP	17.4	-19.3	32.3	151	116	Vert.	46.0	13.7	
500.000	39.1	QP	17.4	-19.5	37.0	99	148	Hori.	46.0	9.0	
500.000	43.6	QP	17.4	-19.5	41.5	170	110	Vert.	46.0	4.5	
800.000	35.6	QP	21.7	-17.9	39.4	92	100	Hori.	46.0	6.6	
800.000	38.2	QP	21.7	-17.9	42.0	168	119	Vert.	46.0	4.0	

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)

*Cable 4: CA-RSPNMA004.

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

Radiated Spurious Emission (below 1GHz)

11a, Rx, 5825MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

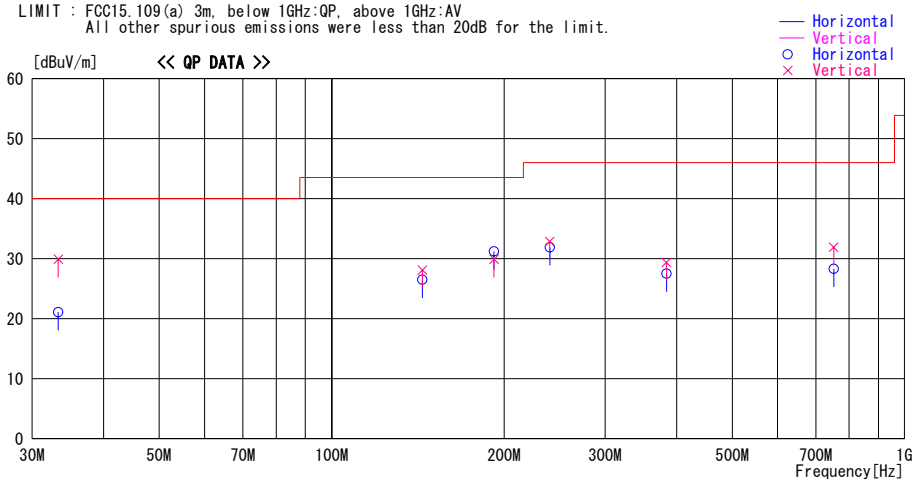
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/02/08

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN board
Model No. : SX-10WAG + HG5808U + Cable5 + Cable7
Serial No. : 32 + 1
Report No. : 28CE0213-HO-01
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 24deg.C / 27%
Operator : Satofumi Matsuyama

Mode / Remarks : Rx 5825MHz / 11a / Ant:A / module-axis: H:Z, V:Z / Antenna-axis: normal-axis

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



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]	
33.334	28.9	QP	17.2	-25.0	21.1	318	300	Hori.	40.0	18.9	
33.341	37.7	QP	17.2	-25.0	29.9	320	100	Vert.	40.0	10.1	
144.027	35.3	QP	14.6	-23.4	26.5	90	222	Hori.	43.5	17.0	
144.018	36.9	QP	14.6	-23.4	28.1	118	100	Vert.	43.5	15.4	
192.004	37.8	QP	16.3	-22.9	31.2	267	180	Hori.	43.5	12.3	
192.003	36.5	QP	16.3	-22.9	29.9	157	100	Vert.	43.5	13.6	
240.331	38.0	QP	16.4	-22.5	31.9	249	149	Hori.	46.0	14.1	
240.033	39.0	QP	16.4	-22.5	32.9	170	100	Vert.	46.0	13.1	
383.994	32.1	QP	16.9	-21.5	27.5	275	100	Hori.	46.0	18.5	
384.001	34.0	QP	16.9	-21.5	29.4	50	130	Vert.	46.0	16.6	
751.686	26.8	QP	20.9	-19.4	28.3	5	100	Hori.	46.0	17.7	
751.688	30.4	QP	20.9	-19.4	31.9	135	133	Vert.	46.0	14.1	

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)

*Cable 5: CA-RSPNMA010, Cable 7: CA-NMNFA004.

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

Radiated Spurious Emission (below 1GHz)

11a, Rx, 5825MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

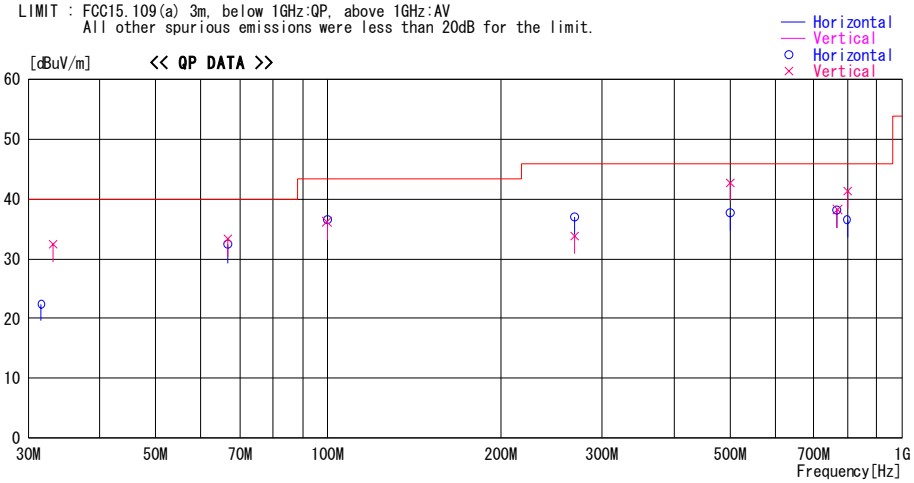
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/02/11

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN board
Model No. : SX-10WAG + HG5817D + Cable5 + Cable7
Serial No. : 32 + 1
Report No. : 28CE0213-HO-01
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 24deg.C / 33%
Operator : Tomotaka Sasagawa

Mode / Remarks : Rx 5825MHz / 11a / Ant:A / module-axis: H:Z, V:Z / Antenna-axis: normal

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



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]	
31.623	26.5	QP	18.1	-22.0	22.6	60	300	Hori.	40.0	17.4	
33.246	37.2	QP	17.3	-22.0	32.5	202	100	Vert.	40.0	7.5	
66.794	47.8	QP	7.1	-21.5	33.4	80	100	Vert.	40.0	6.6	
66.794	46.8	QP	7.1	-21.5	32.4	50	300	Hori.	40.0	7.6	
99.800	47.6	QP	9.9	-21.2	36.3	348	100	Vert.	43.5	7.2	
99.800	47.9	QP	9.9	-21.2	36.6	92	300	Hori.	43.5	6.9	
267.534	34.9	QP	18.2	-19.2	33.9	161	100	Vert.	46.0	12.1	
267.534	38.1	QP	18.2	-19.2	37.1	208	300	Hori.	46.0	8.9	
500.601	44.7	QP	17.5	-19.5	42.7	153	100	Vert.	46.0	3.3	
500.601	39.8	QP	17.5	-19.5	37.8	226	100	Hori.	46.0	8.2	
767.138	35.0	QP	21.4	-18.1	38.3	120	100	Vert.	46.0	7.7	
767.138	34.9	QP	21.4	-18.1	38.2	108	100	Hori.	46.0	7.8	
800.806	37.5	QP	21.7	-17.8	41.4	176	100	Vert.	46.0	4.6	
800.806	32.8	QP	21.7	-17.8	36.7	66	100	Hori.	46.0	9.3	

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)

*Cable 5: CA-RSPNMA010, Cable 7: CA-NMNFA004.
*The test result is rounded off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)

11a, Rx, 5825MHz (SX-10WAG + CA-RSPNMA004 + SR49120WDA)

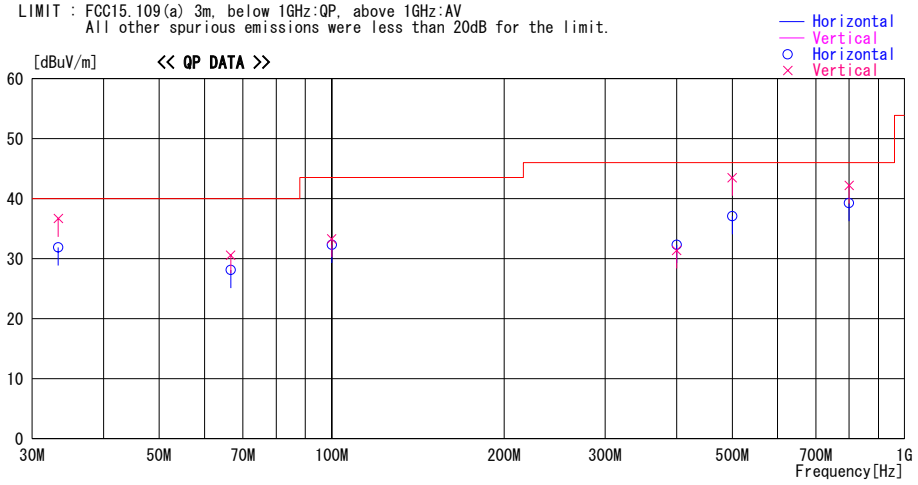
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/02/10

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN board
Model No. : SX-10WAG + SR49120WDA + Cable4
Serial No. : 32 + 1
Report No. : 28CE0213-HO-01
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 25deg.C / 30%
Operator : Kenichi Adachi

Mode / Remarks : Rx 5825MHz / 11a / Ant:A / module-axis: H:Z, V:Z / Antenna-axis: normal

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV
All other spurious emissions were less than 20dB for the limit.



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]	
33.333	36.7	QP	17.2	-22.0	31.9	166	178	Hori.	40.0	8.1	
33.333	41.5	QP	17.2	-22.0	36.7	357	100	Vert.	40.0	3.3	
66.667	42.5	QP	7.1	-21.5	28.1	12	400	Hori.	40.0	11.9	
66.667	45.0	QP	7.1	-21.5	30.6	68	100	Vert.	40.0	9.4	
100.000	43.5	QP	10.0	-21.2	32.3	134	255	Hori.	43.5	11.2	
100.000	44.5	QP	10.0	-21.2	33.3	116	100	Vert.	43.5	10.2	
400.000	34.2	QP	17.4	-19.3	32.3	335	100	Hori.	46.0	13.7	
400.000	33.3	QP	17.4	-19.3	31.4	174	105	Vert.	46.0	14.6	
500.000	39.2	QP	17.4	-19.5	37.1	94	152	Hori.	46.0	8.9	
500.000	45.6	QP	17.4	-19.5	43.5	168	100	Vert.	46.0	2.5	
800.000	35.5	QP	21.7	-17.9	39.3	90	100	Hori.	46.0	6.7	
800.000	38.4	QP	21.7	-17.9	42.2	179	117	Vert.	46.0	3.8	

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

*Cable 4: CA-RSPNMA004.

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

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Radiated Spurious Emission (above 1GHz)

11a, Tx, 5825MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA0004 + HG5808U)

UL Japan, Inc.

Head Office EMC Lab. No. 3 and No.1 Semi Anechoic Chamber

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.247 / RSS-210 A8.5		
Equipment	MiniPCI Wireless LAN board			Test Distance	3m (below 10GHz) / 1m (above 10GHz)		
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5808U	Date	January 16, 2008	January 18, 2008	February 1, 2008
S/N	32		1	Temperature	24 deg.C.	25 deg.C.	26 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	36 %	33 %	33 %
Mode	11a, Tx 5825MHz, Ant:A, 54Mbps,			Engineer	Takumi Shimada	Takumi Shimada	Akio Hayashi
EUT-Position	H: Z-axis, V:Z-axis				(1G-10GHz, No3AC)	(10G-18GHz, No1AC)	(18G-40GHz, No1AC)
Ant.-Position	Nornal-axis						

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2861.5	50.4	51.8	28.1	31.4	3.3	0.0	50.4	51.8	73.9	23.5	22.1
2	3883.3	46.8	48.8	29.6	30.9	3.6	0.0	49.1	51.1	73.9	24.8	22.8
3	5850.0	47.7	55.3	32.5	30.6	4.2	0.0	53.8	61.4	73.9	20.1	12.5
4	7766.6	44.1	44.4	36.5	31.3	5.5	1.1	55.9	56.2	73.9	18.0	17.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	11650.0	61.8	61.1	39.9	36.4	6.6	1.2	63.6	62.9	73.9	10.3	11.0
6 **	17475.0	54.4	57.3	44.7	35.2	8.5	2.0	64.9	67.8	73.9	-	-
7	23300.0	33.4	33.4	40.4	26.5	16.4	0.0	54.2	54.2	73.9	19.7	19.7
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	29125.0	41.7	40.6	43.7	25.0	15.1	0.0	59.9	58.8	73.9	14.0	15.1
9	34950.0	43.1	45.8	43.1	25.3	16.8	0.0	62.1	64.8	73.9	11.8	9.1

** Reference data

AV (PK 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	2861.5	42.3	43.4	28.1	31.4	3.3	0.0	42.3	43.4	53.9	11.6	10.5
2	3883.3	41.4	44.7	29.6	30.9	3.6	0.0	43.7	47.0	53.9	10.2	6.9
3	5850.0	30.1	32.4	32.5	30.6	4.2	0.0	36.2	38.5	53.9	17.7	15.4
4	7766.6	36.1	36.2	36.5	31.3	5.5	1.1	47.9	48.0	53.9	6.0	5.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	11650.0	48.3	47.1	39.9	36.4	6.6	1.2	50.1	48.9	53.9	3.8	5.0
6 **	17475.0	40.6	43.1	44.7	35.2	8.5	2.0	51.1	53.6	53.9	-	-
7	23300.0	23.4	23.2	40.4	26.5	16.4	0.0	44.2	44.0	53.9	9.7	9.9
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	29125.0	30.1	30.1	43.7	25.0	15.1	0.0	48.3	48.3	53.9	5.6	5.6
9	34950.0	33.0	33.0	43.1	25.3	16.8	0.0	52.0	52.0	53.9	1.9	1.9

** Reference data

20dBc(Fundamental 5825MHz) (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												
0	5825.0	77.9	89.7	32.5	30.6	4.2	0.0	84.0	95.8	-	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	17475.0	44.1	46.9	44.7	35.2	8.5	2.0	54.6	57.4	Funda-20dB	9.4	18.4

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB
Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.56 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 places, so some differences might be observed.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission

(Reference data)

11a, Tx, 5825MHz (SX-10WAG + CA-RSPNMA004 + HG5808U)

UL Japan, Inc.

Head Office EMC Lab. No. 4 Semi Anechoic Chamber

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.247 / RSS-210 A8.5
Equipment	MiniPCI Wireless LAN board			Test Distance	1m
Model	SX-10WAG,	CA-RSPNMA004	HG5808U	Date	February 4, 2008
S/N	32		1	Temperature	20deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	38 %
Mode	11a, Tx 5825MHz, Ant:A, 54Mbps,			Engineer	Takayuki Shimada
EUT-Position	H: Z-axis, V:Z-axis				
Ant.-Position	Nornal-axis				

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
1	11650.0	62.4	59.3	39.6	33.1	6.1	0.6	66.1	63.0	73.9	7.8	10.9
2	17475.0	49.7	50.0	43.3	32.4	7.3	0.7	59.1	59.4	73.9	14.8	14.5

AV (PK 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 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
1	11650.0	49.2	46.7	39.6	33.1	6.1	0.6	52.9	50.4	53.9	1.0	3.5
2	17475.0	36.5	37.6	43.3	32.4	7.3	0.7	45.9	47.0	53.9	8.0	6.9

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 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 places, so some differences might be observed.

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

Radiated Spurious Emission

(Reference data)

11a, Tx, 5825MHz (SX-10WAG + CA4NMRSF020 + HG5808U)

UL Japan, Inc.

Head Office EMC Lab. No. 4 Semi Anechoic Chamber

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.247 / RSS-210 A8.5
Equipment	MiniPCI Wireless LAN board			Test Distance	1m
Model	SX-10WAG,	CA4NMRSF020	HG5808U	Date	February 4, 2008
S/N	32		1	Temperature	20deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	38 %
Mode	11a, Tx 5825MHz, Ant:A, 54Mbps,			Engineer	Takayuki Shimada
EUT-Position	H: Z-axis, V:Z-axis				
Ant.-Position	Nornal-axis				

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
1	11650.0	58.5	59.8	39.6	33.1	6.1	0.6	62.2	63.5	73.9	11.7	10.4
2	17475.0	49.3	51.8	43.3	32.4	7.3	0.7	58.7	61.2	73.9	15.2	12.7

AV (PK 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 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
1	11650.0	46.7	46.6	39.6	33.1	6.1	0.6	50.4	50.3	53.9	3.5	3.6
2	17475.0	35.5	38.1	43.3	32.4	7.3	0.7	44.9	47.5	53.9	9.0	6.4

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 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 places, so some differences might be observed.

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

Radiated Spurious Emission

11a, Tx, 5825MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA0004 + HG5817D)

UL Japan, Inc.

Head Office EMC Lab. No. 3 and No.1 Semi Anechoic Chamber

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.247 / RSS-210 A8.5		
Equipment	MiniPCI Wireless LAN board			Test Distance	3m (below 10GHz) / 1m (above 10GHz)		
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5817D	Date	January 17, 2008	January 18, 2008	February 1, 2008
S/N	32		1	Temperature	24 deg.C.	25 deg.C.	26 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	36 %	33 %	33 %
Mode	11a, Tx 5825MHz, Ant:A, 54Mbps,			Engineer	Tomotaka Sasagawa (1G-10GHz, No3AC)	Takumi Shimada (10G-18GHz, No1AC)	Akio Hayashi (18G-40GHz, No1AC)
EUT-Position	H: Z-axis, V:Z-axis						
Ant.-Position	Nornal-axis						

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2861.5	51.4	52.7	28.1	31.4	3.3	0.0	51.4	52.7	73.9	22.5	21.2
2	3883.3	45.7	45.8	29.6	30.9	3.6	0.0	48.0	48.1	73.9	25.9	25.8
3	5547.3	41.2	50.4	32.5	30.6	4.2	0.0	47.3	56.5	73.9	26.6	17.4
4	5850.0	46.4	66.3	32.5	30.6	4.2	0.0	52.5	72.4	73.9	21.4	1.5
5	7766.6	41.4	40.8	36.5	31.3	5.5	1.1	53.2	52.6	73.9	20.7	21.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	11650.0	61.8	61.1	39.9	36.4	5.9	1.9	63.6	62.9	73.9	10.3	11.0
7 **	17475.0	54.4	57.3	44.7	35.2	7.9	2.6	64.9	67.8	73.9	-	-
8	23300.0	35.1	33.4	40.4	26.5	16.4	0.0	55.9	54.2	73.9	18.0	19.7
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
9	29125.0	41.3	42.7	43.7	25.0	15.1	0.0	59.6	61.0	73.9	14.3	12.9
10	34950.0	45.1	43.4	43.1	25.3	16.8	0.0	64.2	62.5	73.9	9.7	11.4

** Reference data

AV (PK 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	2861.5	43.9	46.6	28.1	31.4	3.3	0.0	43.9	46.6	53.9	10.0	7.3
2	3883.3	40.9	42.8	29.6	30.9	3.6	0.0	43.2	45.1	53.9	10.7	8.8
3	5547.3	30.9	37.4	32.5	30.6	4.2	0.0	37.0	43.5	53.9	16.9	10.4
4	5850.0	30.9	40.9	32.5	30.6	4.2	0.0	37.0	47.0	53.9	16.9	6.9
5	7766.6	31.2	30.4	36.5	31.3	5.5	1.1	43.0	42.2	53.9	10.9	11.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	11650.0	48.3	47.1	39.9	36.4	5.9	1.9	50.1	48.9	53.9	3.8	5.0
7 **	17475.0	40.6	43.1	44.7	35.2	7.9	2.6	51.1	53.6	53.9	-	-
8	23300.0	23.0	23.4	40.4	26.5	16.4	0.0	43.8	44.2	53.9	10.1	9.7
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
9	29125.0	30.1	30.1	43.7	25.0	15.1	0.0	48.4	48.4	53.9	5.5	5.5
10	34950.0	33.0	33.0	43.1	25.3	16.8	0.0	52.1	52.1	53.9	1.8	1.8

** Reference data

20dBc(Fundamental 5825MHz) (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												
0	5825.0	77.8	96.8	32.5	30.6	4.2	0.0	83.9	102.9	-	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	17475.0	44.1	46.9	44.7	35.2	7.9	2.6	54.6	57.4	Funda-20dB	9.3	25.5

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB
Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.5 dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The test result is round off to one or two decimal places, so some differences might be observed.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission

(Reference data)

11a, Tx, 5825MHz (SX-10WAG + CA-RSPNMA004 + HG5817D)

UL Japan, Inc.

Head Office EMC Lab. No. 4 Semi Anechoic Chamber

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.247 / RSS-210 A8.5
Equipment	MiniPCI Wireless LAN board			Test Distance	1m
Model	SX-10WAG,	CA-RSPNMA004	HG5817D	Date	February 4, 2008
S/N	32		1	Temperature	20deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	38 %
Mode	11a, Tx 5825MHz, Ant:A, 54Mbps,			Engineer	Takayuki Shimada
EUT-Position	H: Z-axis, V:Z-axis				
Ant.-Position	Nornal-axis				

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
1	11650.0	62.4	60.3	39.6	33.1	6.1	0.6	66.1	64.0	73.9	7.8	9.9
2	17475.0	50.7	51.6	43.3	32.4	7.3	0.7	60.1	61.0	73.9	13.8	12.9

AV (PK 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 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
1	11650.0	49.3	47.0	39.6	33.1	6.1	0.6	53.0	50.7	53.9	0.9	3.2
2	17475.0	36.8	37.6	43.3	32.4	7.3	0.7	46.2	47.0	53.9	7.7	6.9

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 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 places, so some differences might be observed.

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

Radiated Spurious Emission

(Reference data)

11a, Tx, 5825MHz (SX-10WAG + CA4NMRSF020 + HG5817D)

UL Japan, Inc.

Head Office EMC Lab. No. 4 Semi Anechoic Chamber

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.247 / RSS-210 A8.5
Equipment	MiniPCI Wireless LAN board			Test Distance	1m
Model	SX-10WAG,	CA4NMRSF020	HG5817D	Date	February 4, 2008
S/N	32		1	Temperature	20deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	38 %
Mode	11a, Tx 5825MHz, Ant:A, 54Mbps,			Engineer	Takayuki Shimada
EUT-Position	H: Z-axis, V:Z-axis				
Ant.-Position	Nornal-axis				

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
1	11650.0	61.0	59.3	39.6	33.1	6.1	0.6	64.7	63.0	73.9	9.2	10.9
2	17475.0	50.4	48.5	43.3	32.4	7.3	0.7	59.8	57.9	73.9	14.1	16.0

AV (PK 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 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
1	11650.0	47.6	45.9	39.6	33.1	6.1	0.6	51.3	49.6	53.9	2.6	4.3
2	17475.0	36.6	35.2	43.3	32.4	7.3	0.7	46.0	44.6	53.9	7.9	9.3

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 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 places, so some differences might be observed.

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

Radiated Spurious Emission

11a, Tx, 5825MHz (SX-10WAG + CA-RSPNMA004 + SR49120WDA)

UL Japan, Inc.

Head Office EMC Lab. No. 3 and No.1 Semi Anechoic Chamber

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.247 / RSS-210 A8.5		
Equipment	MiniPCI Wireless LAN board			Test Distance	3m (below 10GHz) / 1m (above 10GHz)		
Model	SX-10WAG,	CA-RSPNMA004	SR49120WDA	Date	January 26, 2008	January 18, 2008	January 27, 2008
S/N	32		1	Temperature	25 deg.C.	25 deg.C.	24 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	30 %	33 %	31 %
Mode	11a, Tx 5825MHz, Ant:A, 54Mbps,			Engineer	Kenichi Adachi	Kenichi Adachi	Norihisa Hashimoto
EUT-Position	H: Z-axis, V:Z-axis				(1G-10GHz, No3AC)	(10G-18GHz, No1AC)	(18G-40GHz, No1AC)
Ant.-Position	Nornal-axis						

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2861.6	50.5	53.5	28.1	31.4	3.3	0.0	50.5	53.5	73.9	23.4	20.4
2	3883.3	47.1	51.5	29.6	30.9	3.6	0.0	49.4	53.8	73.9	24.5	20.1
3	5440.0	44.5	54.2	32.1	30.7	4.1	0.0	50.0	59.7	73.9	23.9	14.2
4	5725.0	41.6	48.5	32.4	30.6	4.2	0.0	47.6	54.5	73.9	26.3	19.4
5	5850.0	51.1	61.7	32.5	30.6	4.2	0.0	57.2	67.8	73.9	16.7	6.1
6	7766.7	46.2	44.9	36.5	31.3	4.9	0.0	56.3	55.0	73.9	17.6	18.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	11650.0	62.0	62.7	39.9	36.4	5.9	1.9	63.8	64.5	73.9	10.1	9.4
8 **	17475.0	56.0	56.6	44.7	35.2	7.9	2.6	66.5	67.1	73.9	-	-
9	23300.0	42.6	43.2	40.9	23.3	13.2	0.0	63.9	64.5	73.9	10.0	9.4
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
10	29125.0	42.4	42.8	43.2	25.0	15.0	0.0	60.1	60.5	73.9	13.8	13.4
11	34950.0	45.3	45.5	43.3	25.3	16.7	0.0	64.5	64.7	73.9	9.4	9.2

** Reference data

AV (PK 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	2861.6	47.6	49.2	28.1	31.4	3.3	0.0	47.6	49.2	53.9	6.3	4.7
2	3883.3	42.6	47.2	29.6	30.9	3.6	0.0	44.9	49.5	53.9	9.0	4.4
3	5440.0	35.7	46.0	32.1	30.7	4.1	0.0	41.2	51.5	53.9	12.7	2.4
4	5725.0	29.5	36.6	32.4	30.6	4.2	0.0	35.5	42.6	53.9	18.4	11.3
5	5850.0	31.8	39.4	32.5	30.6	4.2	0.0	37.9	45.5	53.9	16.0	8.4
6	7766.7	41.2	37.2	36.5	31.3	4.9	0.0	51.3	47.3	53.9	2.6	6.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	11650.0	48.3	49.3	39.9	36.4	5.9	1.9	50.1	51.1	53.9	3.8	2.8
8 **	17475.0	42.2	43.0	44.7	35.2	7.9	2.6	52.7	53.5	53.9	-	-
9	23300.0	29.4	29.4	40.9	23.3	13.2	0.0	50.7	50.7	53.9	3.2	3.2
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
10	29125.0	29.5	29.5	43.2	25.0	15.0	0.0	47.2	47.2	53.9	6.7	6.7
11	34950.0	32.5	32.5	43.3	25.3	16.7	0.0	51.7	51.7	53.9	2.2	2.2

** Reference data

20dBc(Fundamental 5825MHz) (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												
0	5825.0	84.8	98.8	32.5	30.6	4.2	0.0	90.9	104.9	-	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	17475.0	51.8	52.3	44.7	35.2	7.9	2.6	62.3	62.8	Funda-20dB	8.6	22.1

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.5 dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.
*The test result is round off to one or two decimal places, so some differences might be observed.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission

(Reference data)

11a, Tx, 5825MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + SR49120WDA)

UL Japan, Inc.

Head Office EMC Lab. No. 4 Semi Anechoic Chamber

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.247 / RSS-210 A8.5
Equipment	MiniPCI Wireless LAN board			Test Distance	1m
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	SR49120WDA	Date	February 4, 2008
S/N	32		1	Temperature	20deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	38 %
Mode	11a, Tx 5825MHz, Ant:A, 54Mbps,			Engineer	Takayuki Shimada
EUT-Position	H: Z-axis, V:Z-axis				
Ant.-Position	Nornal-axis				

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
1	11650.0	60.0	60.9	39.6	33.1	6.1	0.6	63.7	64.6	73.9	10.2	9.3
2	17475.0	49.9	50.4	43.3	32.4	7.3	0.7	59.3	59.8	73.9	14.6	14.1

AV (PK 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 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
1	11650.0	47.6	47.9	39.6	33.1	6.1	0.6	51.3	51.6	53.9	2.6	2.3
2	17475.0	36.2	36.9	43.3	32.4	7.3	0.7	45.6	46.3	53.9	8.3	7.6

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 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 places, so some differences might be observed.

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

Radiated Spurious Emission

(Reference data)

11a, Tx, 5825MHz (SX-10WAG + CA4NMRSF020 + SR49120WDA)

UL Japan, Inc.

Head Office EMC Lab. No. 4 Semi Anechoic Chamber

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.247 / RSS-210 A8.5
Equipment	MiniPCI Wireless LAN board			Test Distance	1m
Model	SX-10WAG,	CA4NMRSF020	SR49120WDA	Date	February 4, 2008
S/N	32		1	Temperature	20deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	38 %
Mode	11a, Tx 5825MHz, Ant:A, 54Mbps,			Engineer	Takayuki Shimada
EUT-Position	H: Z-axis, V:Z-axis				
Ant.-Position	Nornal-axis				

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
1	11650.0	61.8	61.3	39.6	33.1	6.1	0.6	65.5	65.0	73.9	8.4	8.9
2	17475.0	51.6	48.9	43.3	32.4	7.3	0.7	61.0	58.3	73.9	12.9	15.6

AV (PK 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 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
1	11650.0	48.5	48.1	39.6	33.1	6.1	0.6	52.2	51.8	53.9	1.7	2.1
2	17475.0	38.3	35.7	43.3	32.4	7.3	0.7	47.7	45.1	53.9	6.2	8.8

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 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 places, so some differences might be observed.

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

Radiated Spurious Emission

11a, Rx, 5825MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

UL Japan, Inc.

Head Office EMC Lab. No. 1 Semi Anechoic Chamber

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.247 / RSS-210 A8.5	
Equipment	MiniPCI Wireless LAN board			Test Distance	3m (below 10GHz) / 1m (above 10GHz)	
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5808U	Date	January 19, 2008	January 31, 2008
S/N	32		1	Temperature	25 deg.C.	26 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	33 %	33 %
Mode	11a, Rx 5825MHz, Ant:A,			Engineer	Takumi Shimada (1G-18GHz)	Akio Hayashi (18G-40GHz)
EUT-Position	H: Z-axis, V:Z-axis					
Ant.-Position	Nornal-axis					

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2861.6	57.4	53.4	28.1	36.7	3.1	0.0	51.9	47.9	73.9	22.0	26.0
2	3883.3	49.2	53.4	29.5	36.2	3.3	0.0	45.8	50.0	73.9	28.1	23.9
3	5825.0	44.3	44.4	32.2	36.2	4.2	0.0	44.5	44.6	73.9	29.4	29.3
4	7766.6	48.3	47.5	36.5	36.5	4.8	0.0	53.1	52.3	73.9	20.8	21.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	11650.0	45.8	45.7	39.9	36.4	5.9	0.0	45.7	45.6	73.9	28.2	28.3
6	17475.0	46.2	45.7	44.7	35.2	8.0	0.0	54.2	53.7	73.9	19.7	20.2
7	23300.0	33.4	34.2	40.4	23.7	13.6	0.0	54.2	55.0	73.9	19.7	18.9

AV (PK 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	2861.6	54.6	48.5	28.1	36.7	3.1	0.0	49.1	43.0	53.9	4.8	10.9
2	3883.3	41.1	49.6	29.5	36.2	3.3	0.0	37.7	46.2	53.9	16.2	7.7
3	5825.0	31.5	31.5	32.2	36.2	4.2	0.0	31.7	31.7	53.9	22.2	22.2
4	7766.6	39.4	35.4	36.5	36.5	4.8	0.0	44.2	40.2	53.9	9.7	13.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	11650.0	32.7	32.8	39.9	36.4	5.9	0.0	32.6	32.7	53.9	21.3	21.2
6	17475.0	32.8	32.8	44.7	35.2	8.0	0.0	40.8	40.8	53.9	13.1	13.1
7	23300.0	22.8	22.7	40.4	23.7	13.6	0.0	43.6	43.5	53.9	10.3	10.4

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 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 places, so some differences might be observed.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission

11a, Rx, 5825MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

UL Japan, Inc.

Head Office EMC Lab. No. 3 and No. 1 Semi Anechoic Chamber

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.247 / RSS-210 A8.5		
Equipment	MiniPCI Wireless LAN board			Test Distance	3m (below 10GHz) / 1m (above 10GHz)		
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5817D	Date	January 26, 2008	January 18, 2008	January 31, 2008
S/N	32		1	Temperature	25 deg.C.	25 deg.C.	26 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	30 %	33 %	33 %
Mode	11a, Rx 5825MHz, Ant:A,			Engineer	Kenichi Adachi (1G-10GHz, No3AC)	Takumi Shimada (10G-18GHz,No1AC))	Akio Hayashi (18G-40GHz)
EUT-Position	H: Z-axis, V:Z-axis						
Ant.-Position	Nornal-axis						

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2674.9	48.6	49.6	27.8	31.4	3.2	0.0	48.2	49.2	73.9	25.7	24.7
2	3883.3	45.2	48.9	29.6	30.9	3.6	0.0	47.5	51.2	73.9	26.4	22.7
3	5825.0	39.4	39.3	32.5	30.6	4.2	0.0	45.5	45.4	73.9	28.4	28.5
4	7766.6	44.6	43.5	36.5	31.3	4.9	0.0	54.7	53.6	73.9	19.2	20.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	11650.0	45.7	45.6	39.9	36.4	5.9	0.0	45.6	45.5	73.9	28.3	28.4
6	17475.0	46.5	45.5	44.7	35.2	8.0	0.0	54.5	53.5	73.9	19.4	20.4
7	23300.0	34.1	34.2	40.4	23.7	13.6	0.0	54.9	55.0	73.9	19.0	18.9

AV (PK 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	2674.9	44.9	46.1	27.8	31.4	3.2	0.0	44.5	45.7	53.9	9.4	8.2
2	3883.3	38.1	42.6	29.6	30.9	3.6	0.0	40.4	44.9	53.9	13.5	9.0
3	5825.0	28.2	28.2	32.5	30.6	4.2	0.0	34.3	34.3	53.9	19.6	19.6
4	7766.6	37.4	34.2	36.5	31.3	4.9	0.0	47.5	44.3	53.9	6.4	9.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	11650.0	32.7	32.8	39.9	36.4	5.9	0.0	32.6	32.7	53.9	21.3	21.2
6	17475.0	32.8	32.8	44.7	35.2	8.0	0.0	40.8	40.8	53.9	13.1	13.1
7	23300.0	22.7	22.7	40.4	23.7	13.6	0.0	43.5	43.5	53.9	10.4	10.4

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 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 places, so some differences might be observed.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission

11a, Rx, 5825MHz (SX-10WAG + CA-RSPNMA004 + SR49120WDA)

UL Japan, Inc.

Head Office EMC Lab. No. 1 Semi Anechoic Chamber

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.247 / RSS-210 A8.5		
Equipment	MiniPCI Wireless LAN board			Test Distance	3m (below 10GHz) / 1m (above 10GHz)		
Model	SX-10WAG,	CA-RSPNMA004	SR49120WDA	Date	January 26, 2008	January 18, 2008	January 27, 2008
S/N	32		1	Temperature	25 deg.C.	25 deg.C.	24 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	30 %	33 %	31 %
Mode	11a, Rx 5825MHz, Ant:A,			Engineer	Kenichi Adachi (1G-10GHz)	Kenichi Adachi (10G-18GHz)	Norihisa Hashimoto (18G-26GHz, No1AC)
EUT-Position	H: Z-axis, V:Z-axis						
Ant.-Position	Nornal-axis						

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

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2861.6	50.8	48.9	28.1	31.4	3.3	0.0	50.8	48.9	73.9	23.1	25.0
2	3883.3	46.4	47.7	29.6	30.9	3.6	0.0	48.7	50.0	73.9	25.2	23.9
3	5825.0	39.8	39.7	32.5	30.6	4.2	0.0	45.9	45.8	73.9	28.0	28.1
4	7766.7	44.7	43.4	36.5	31.3	4.9	0.0	54.8	53.5	73.9	19.1	20.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	11650.0	47.3	46.8	39.9	36.4	5.9	0.0	47.2	46.7	73.9	26.7	27.2
6	17475.0	46.4	47.3	44.7	35.2	8.0	0.0	54.4	55.3	73.9	19.5	18.6
7	23300.0	42.1	43.0	40.9	23.7	13.6	0.0	63.4	64.3	73.9	10.5	9.6

AV (PK 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	2861.6	47.7	44.5	28.1	31.4	3.3	0.0	47.7	44.5	53.9	6.2	9.4
2	3883.3	40.6	44.0	29.6	30.9	3.6	0.0	42.9	46.3	53.9	11.0	7.6
3	5825.0	28.1	28.1	32.5	30.6	4.2	0.0	34.2	34.2	53.9	19.7	19.7
4	7766.7	37.1	33.6	36.5	31.3	4.9	0.0	47.2	43.7	53.9	6.7	10.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	11650.0	32.7	32.8	39.9	36.4	5.9	0.0	32.6	32.7	53.9	21.3	21.2
6	17475.0	33.2	33.2	44.7	35.2	8.0	0.0	41.2	41.2	53.9	12.7	12.7
7	23300.0	29.0	29.0	40.9	23.7	13.6	0.0	50.3	50.3	53.9	3.6	3.6

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 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 places, so some differences might be observed.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

APPENDIX 3:Test instruments

EMI test equipment (1/2)

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE	2007/11/23 * 12
MCC-15	Microwave Cable 1G-26.5GHz 1m	Suhner	SUCOFLEX 104	RE	2008/02/08 * 12
MCC-76	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2007/12/26 * 12
MCC-18	Microwave Cable 1G-26.5GHz 5m	Suhner	SUCOFLEX 104	RE	2008/02/08 * 12
MHF-21	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCA	RE	2008/01/07 * 12
MHA-05	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2008/01/19 * 12
MPA-01	Pre Amplifier	Agilent	8449B	RE	2007/02/15 * 12
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE	2007/10/19 * 12
MOS-01	Digital Humidity Indicator	N.T	NT-1800	RE	2007/11/12 * 12
MJM-01	Measure	KDS	ES19-55	RE	-
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE / CE	-
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2007/03/05 * 12
MSA-09	Spectrum Analyzer	Advantest	R3273	RE	2007/12/21 * 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
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/04/14 * 12
MOS-13	Thermo-Hygrometer	Custom	CTH-180	RE	2008/01/10 * 12
MJM-06	Measure	PROMART	SEN1955	RE	-
MTA-24	Terminator	Weinschel	M1459A	RE	2007/12/20 * 12
MPA-03	Microwave System Power Amplifier	Agilent	83050A	RE	2007/06/08 * 12
MHA-03	Horn Antenna 26.5-40GHz	EMCO	3160-10	RE	2008/01/19 * 12
MPSU-01	Power Supply	Rohde & Schwarz	HZ-9	RE	Pre Check
MHA-01	Horn Antenna 18-26.5G	EMCO	3160-09	RE	2008/01/19 * 12
MCC-53	Microwave Cable 1G-40GHz	Suhner	SUCOFLEX101	RE	2007/03/08 * 12
MAEC-04	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE / CE	2007/03/03 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	RE / CE	2008/01/10 * 12
MJM-07	Measure	PROMART	SEN1955	RE / CE	-
MSA-05	Spectrum Analyzer	Advantest	R3273	RE / CE	2007/06/01 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/08/16 * 12

EMI test equipment (2/2)

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
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
MHF-23	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCC	RE	2008/01/07 * 12
MCC-79	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2007/12/26 * 12
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2007/04/02 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	RE	2007/03/01 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE	2007/02/27 * 12
MPA-09	Pre Amplifier	Agilent	8447D	RE	2007/09/13 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE	2007/11/12 * 12
MJM-05	Measure	PROMART	SEN1955	RE	-
MCC-50	Coaxial cable	UL Japan	-	CE	2007/03/06 * 12
MTR-07	Test Receiver	Rohde & Schwarz	ESCI	CE	2007/09/14 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2007/02/22 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	AT	2007/09/05 * 12
MAT-25	Attenuator(10dB)(above1GHz)	Agilent	8493C	AT	2007/06/28 * 12
MCC-37	Microwave Cable	Hirose Electric	U.FL-2LP-066-A-(200)	AT	2007/11/07 * 12
MOS-14	Thermo-Hygrometer	Custom	CTH-180	AT	2008/01/10 * 12

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

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

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