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 15.407(a)(3) / RSS-210 A9.2(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]
149	5745.0	2.12	1.48	10.14	13.74	30.00	16.26
153	5765.0	1.97	1.41	10.14	13.52	30.00	16.48
161	5805.0	1.50	1.49	10.15	13.14	30.00	16.86

ANT: B (Reference), 54Mbps

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
149	5745.0	1.82	1.48	10.14	13.44	30.00	16.56
153	5765.0	1.77	1.41	10.14	13.32	30.00	16.68
161	5805.0	1.46	1.49	10.15	13.10	30.00	16.90

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**

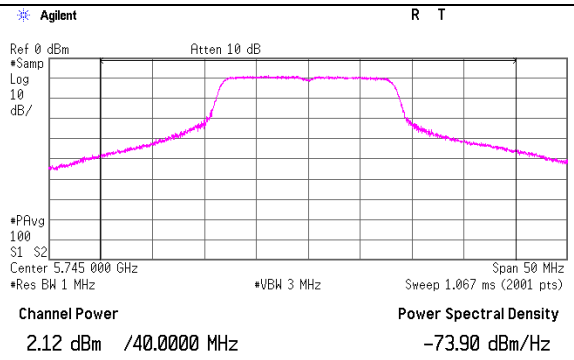
Sample Calculation:
Result = Reading + Cable Loss + Attenuator
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

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

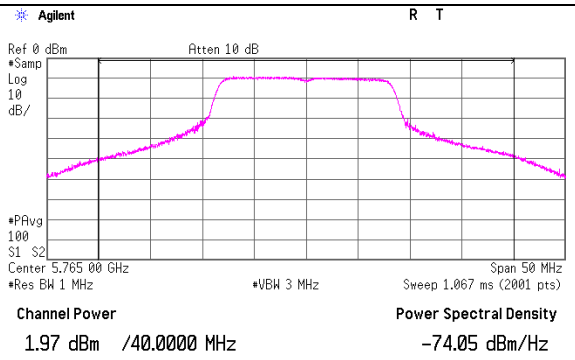
Maximum Peak Output Power

ANT: A

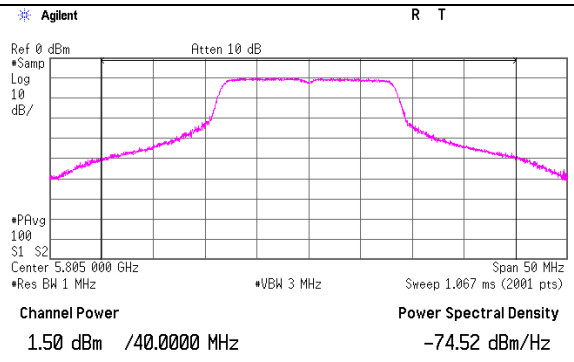
Ch:149



Ch:153



Ch:161

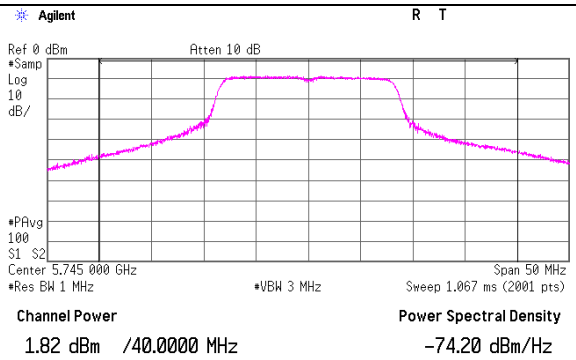


Maximum Peak Output Power

(Reference data)

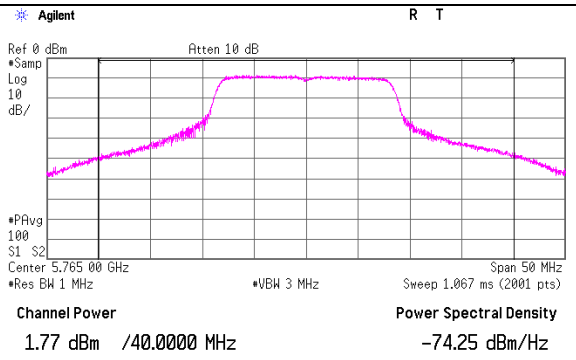
ANT: B

Ch:149



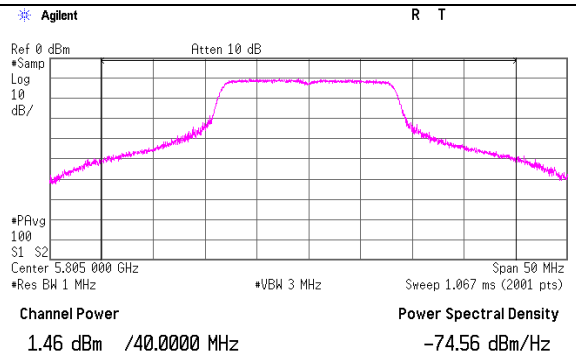
Channel Power	Power Spectral Density
1.82 dBm /40.0000 MHz	-74.20 dBm/Hz

Ch:153



Channel Power	Power Spectral Density
1.77 dBm /40.0000 MHz	-74.25 dBm/Hz

Ch:161



Channel Power	Power Spectral Density
1.46 dBm /40.0000 MHz	-74.56 dBm/Hz

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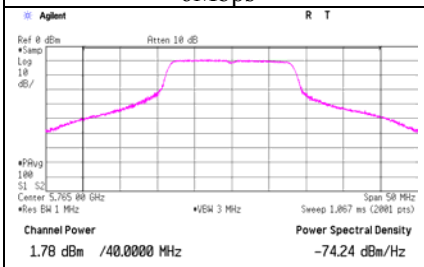
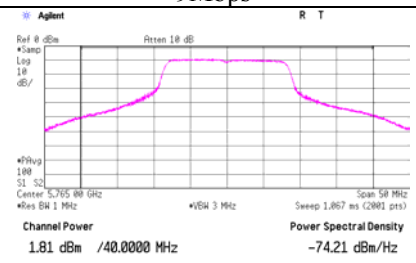
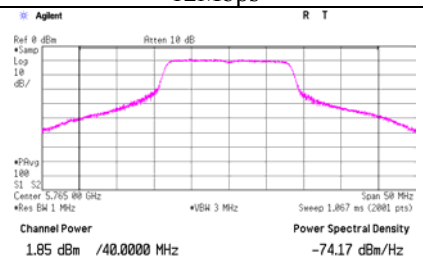
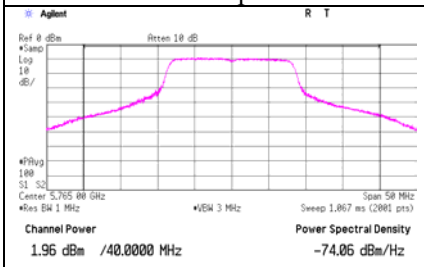
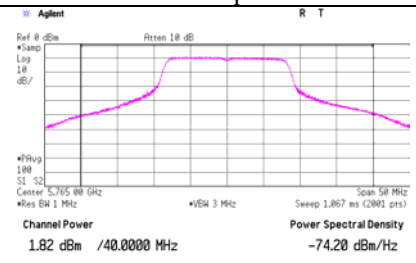
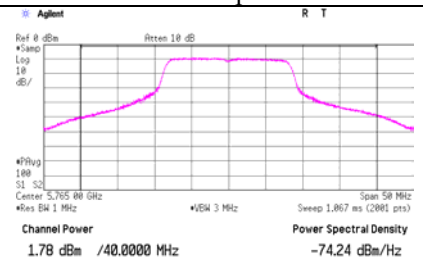
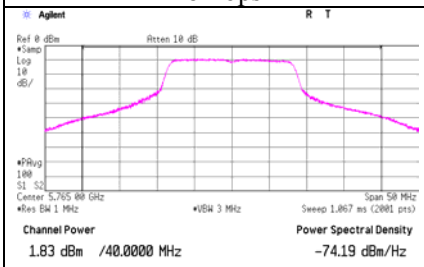
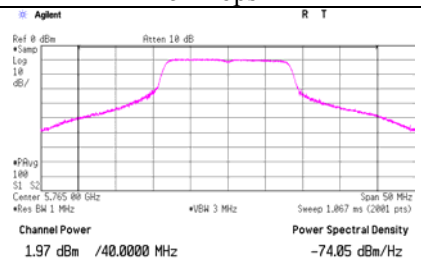
Maximum Peak Output Power

(Reference data)

ANT: A, Tx 5765MHz

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

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Conducted Emission

11a, Tx, 5745MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

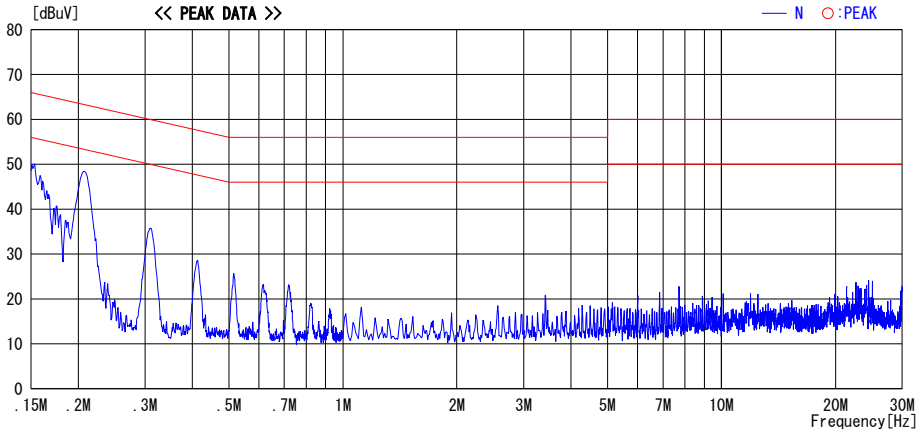
DATA OF CONDUCTED EMISSION TEST

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 5745MHz / 11a / 54Mbps / Ant:A

LIMIT : FCC15.207 QP
FCC15.207 AV



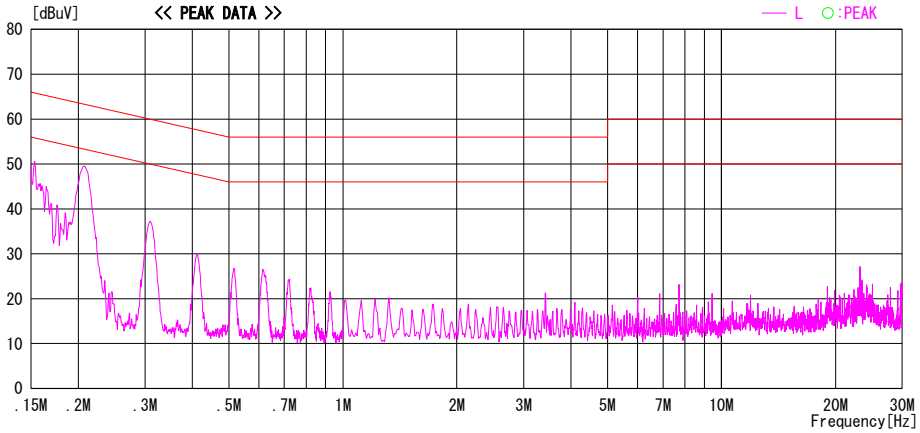


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Tx, 5745MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

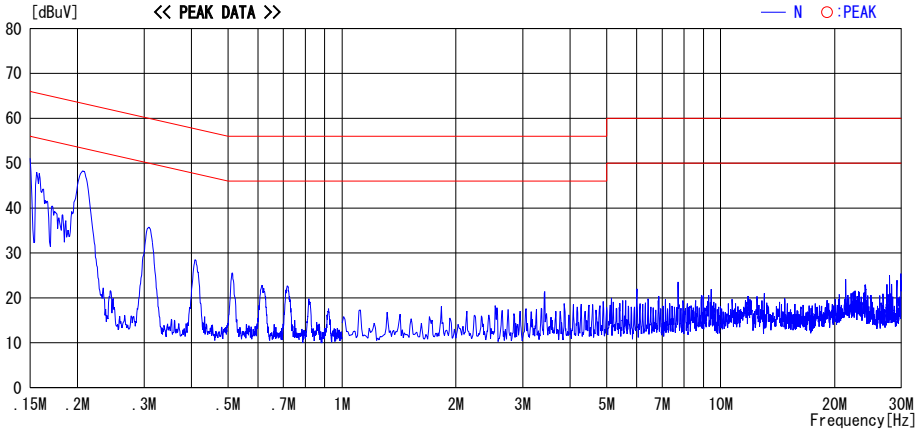
DATA OF CONDUCTED EMISSION TEST

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 5745MHz / 11a / 54Mbps / Ant:A

LIMIT : FCC15.207 QP
FCC15.207 AV



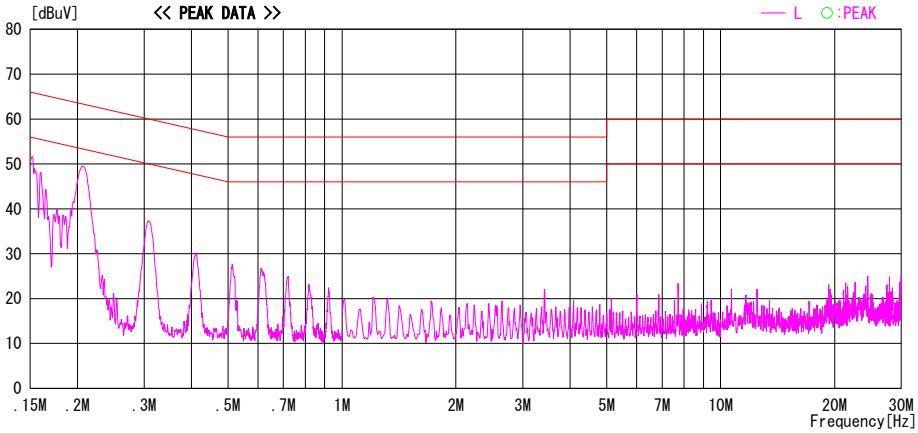


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Tx, 5745MHz (SX-10WAG + CA-RSPNMA004 + SR49120WDA)

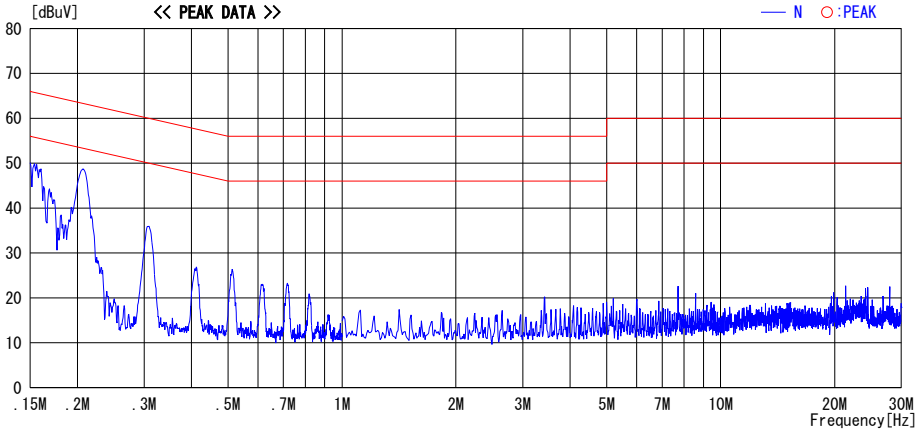
DATA OF CONDUCTED EMISSION TEST

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 5745MHz / 11a / 54Mbps / Ant:A

LIMIT : FCC15.207 QP
FCC15.207 AV



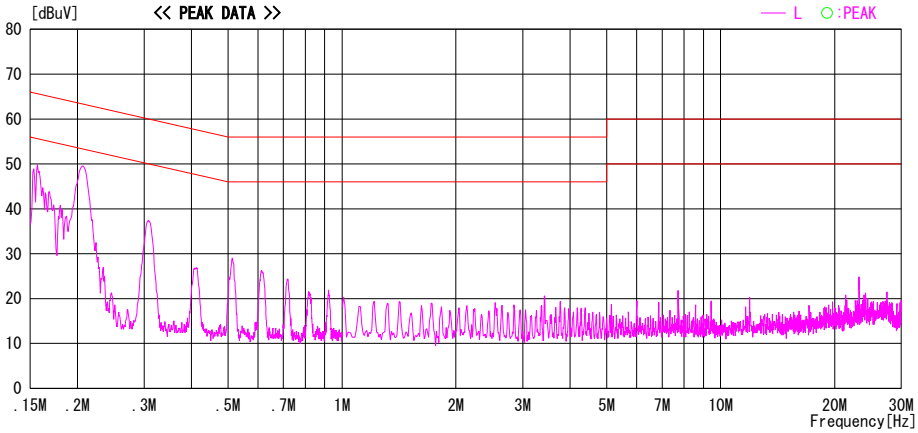


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Tx, 5765MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

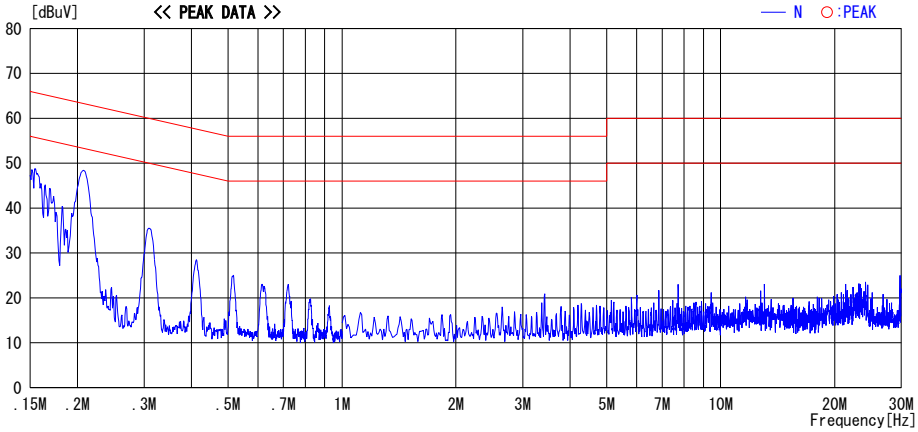
DATA OF CONDUCTED EMISSION TEST

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 5765MHz / 11a / 54Mbps / Ant:A

LIMIT : FCC15.207 QP
FCC15.207 AV



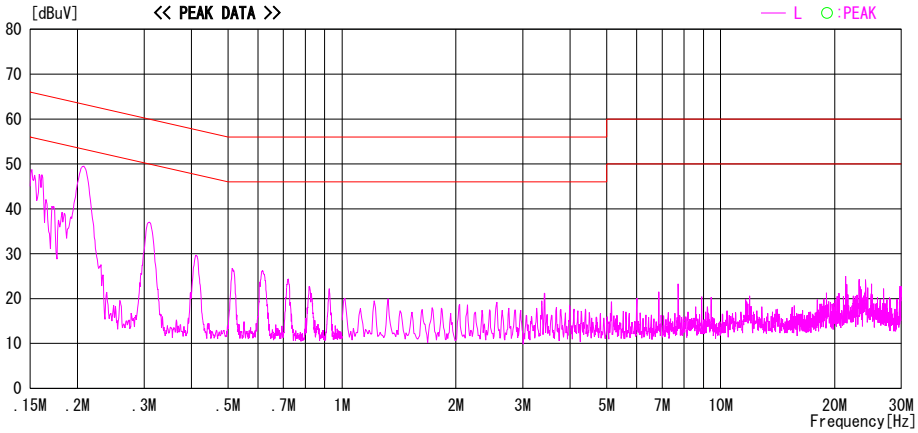


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Tx, 5765MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

DATA OF CONDUCTED EMISSION TEST

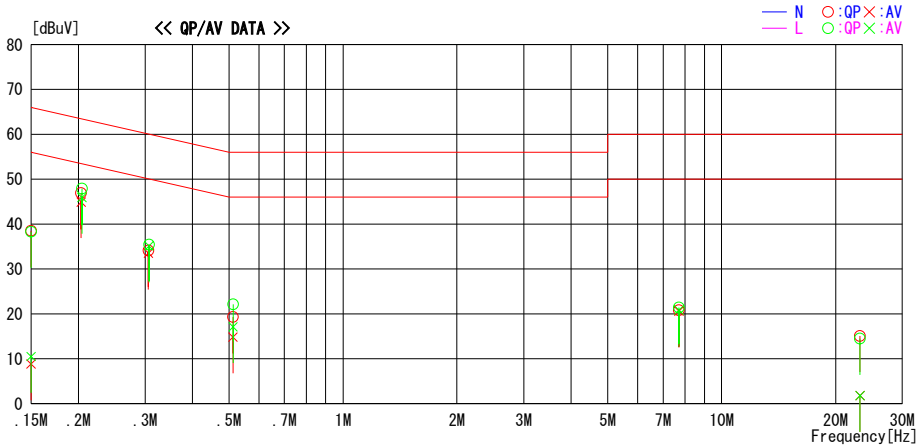
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/02/20

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 5765MHz / 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]		
0.15002	38.2	8.5	0.3	38.5	8.8	66.0	56.0	27.5	47.2	N	
0.20343	46.6	44.6	0.3	46.9	44.9	63.5	53.5	16.6	8.6	N	
0.30612	33.8	33.2	0.3	34.1	33.5	60.1	50.1	26.0	16.6	N	
0.51208	19.0	14.5	0.3	19.3	14.8	56.0	46.0	36.7	31.2	N	
7.70918	19.8	19.6	1.0	20.8	20.6	60.0	50.0	39.2	29.4	N	
23.19615	13.3	0.0	1.8	15.1	1.8	60.0	50.0	44.9	48.2	N	
0.15006	38.0	10.2	0.3	38.3	10.5	66.0	56.0	27.7	45.5	L	
0.20433	47.6	45.6	0.3	47.9	45.9	63.4	53.4	15.5	7.5	L	
0.30714	35.1	34.8	0.3	35.4	35.1	60.0	50.0	24.6	14.9	L	
0.51223	21.8	16.8	0.3	22.1	17.1	56.0	46.0	33.9	28.9	L	
7.71038	20.4	19.8	1.0	21.4	20.8	60.0	50.0	38.6	29.2	L	
23.19599	12.7	0.0	1.8	14.5	1.8	60.0	50.0	45.5	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.

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Facsimile : +81 596 24 8124

Conducted Emission

11a, Tx, 5765MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

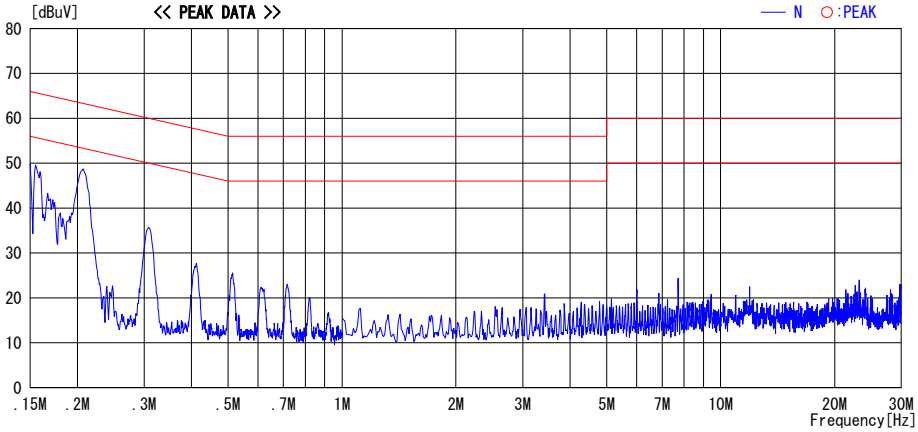
DATA OF CONDUCTED EMISSION TEST

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 5765MHz / 11a / 54Mbps / Ant:A

LIMIT : FCC15.207 QP
FCC15.207 AV



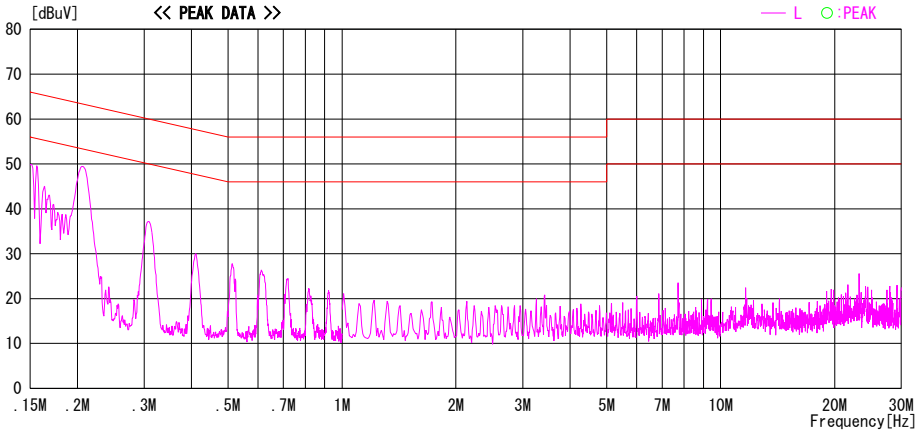


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Tx, 5765MHz (SX-10WAG + CA-RSPNMA004 + SR49120WDA)

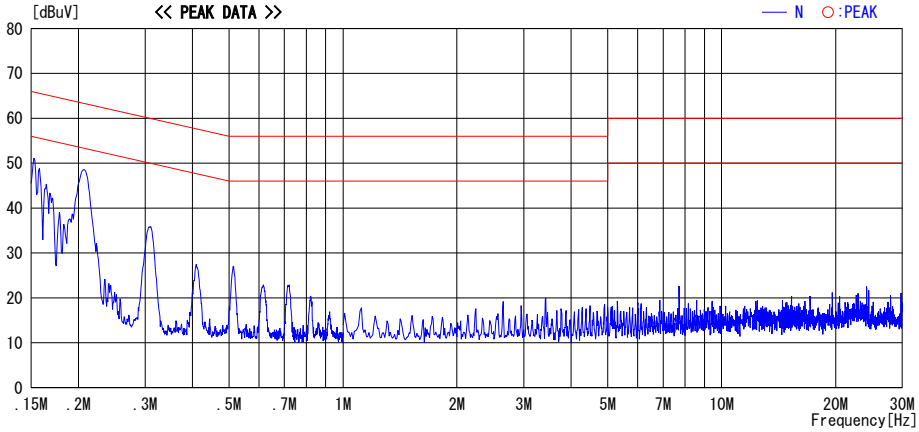
DATA OF CONDUCTED EMISSION TEST

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 5765MHz / 11a / 54Mbps / Ant:A

LIMIT : FCC15.207 QP
FCC15.207 AV



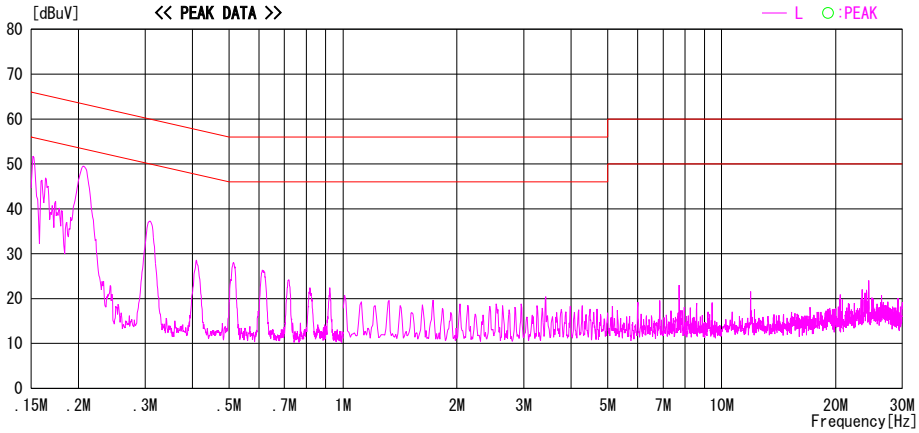


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Tx, 5805MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

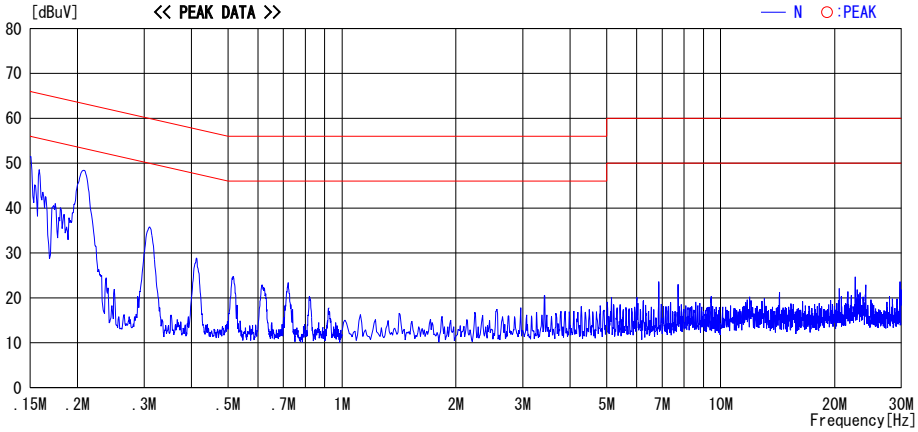
DATA OF CONDUCTED EMISSION TEST

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 5805MHz / 11a / 54Mbps / Ant:A

LIMIT : FCC15.207 QP
FCC15.207 AV



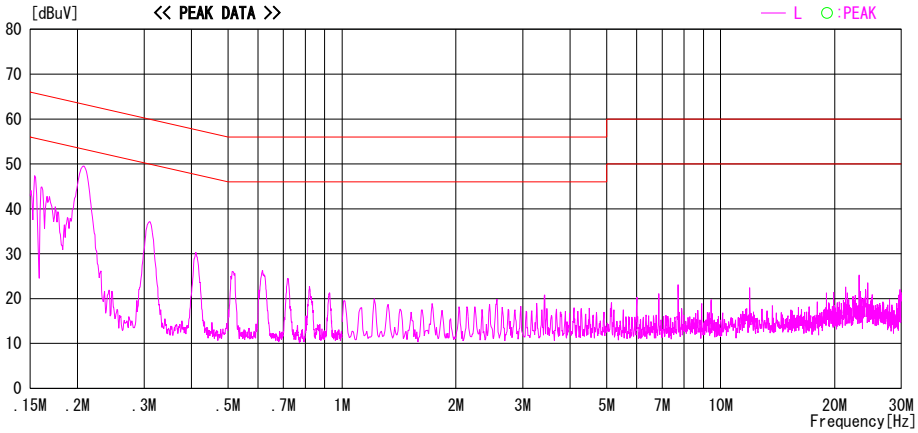


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Tx, 5805MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

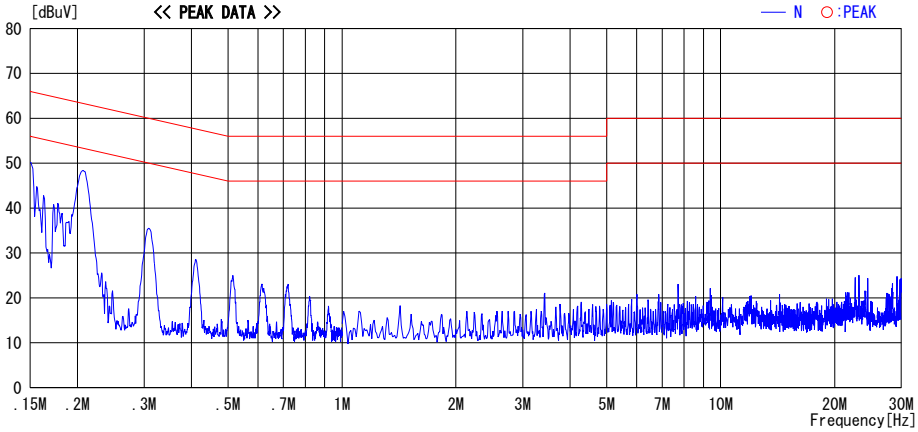
DATA OF CONDUCTED EMISSION TEST

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 5805MHz / 11a / 54Mbps / Ant:A

LIMIT : FCC15.207 QP
FCC15.207 AV



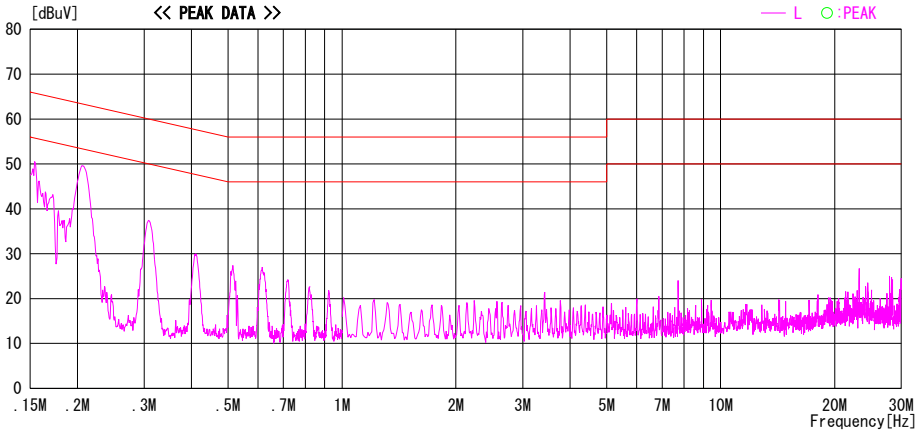


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Tx, 5805MHz (SX-10WAG + CA-RSPNMA004 + SR49120WDA)

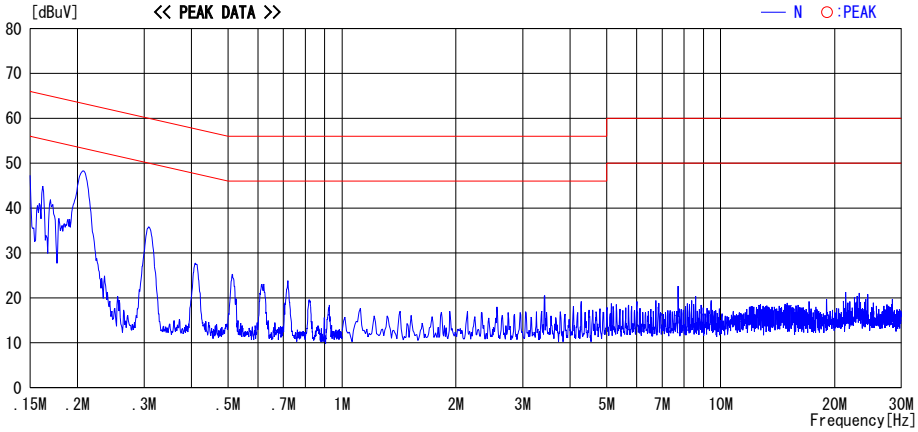
DATA OF CONDUCTED EMISSION TEST

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 5805MHz / 11a / 54Mbps / Ant:A

LIMIT : FCC15.207 QP
FCC15.207 AV



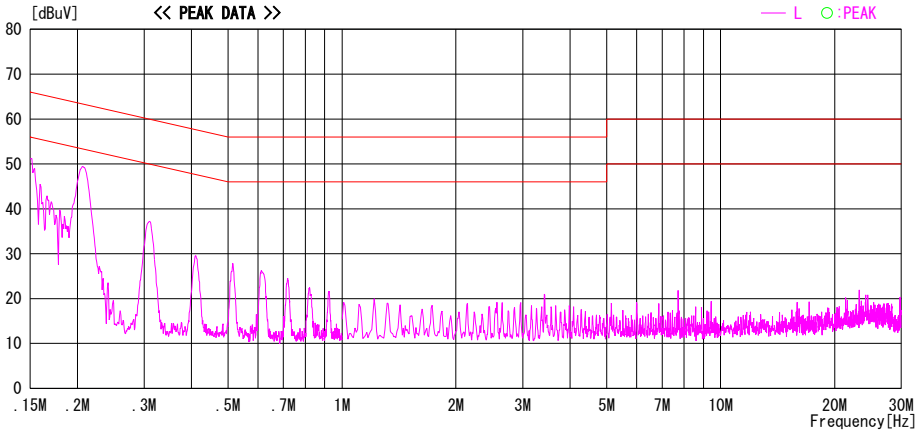


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Rx, 5765MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

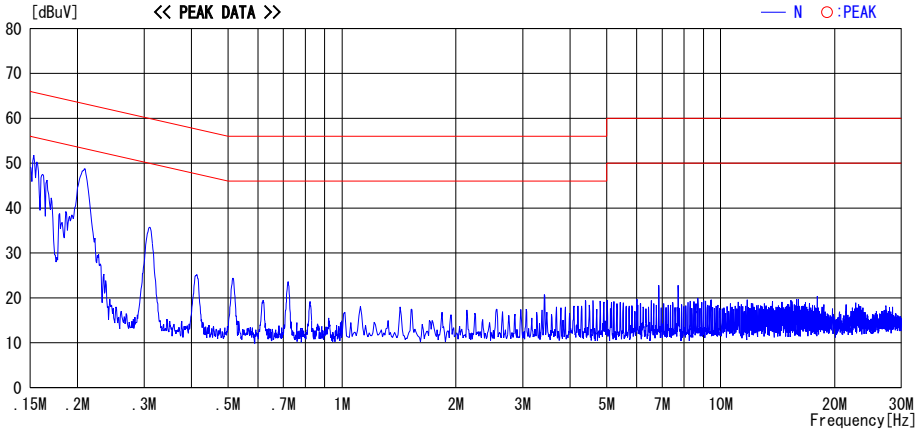
DATA OF CONDUCTED EMISSION TEST

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 5765MHz / 11a / Ant:A

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



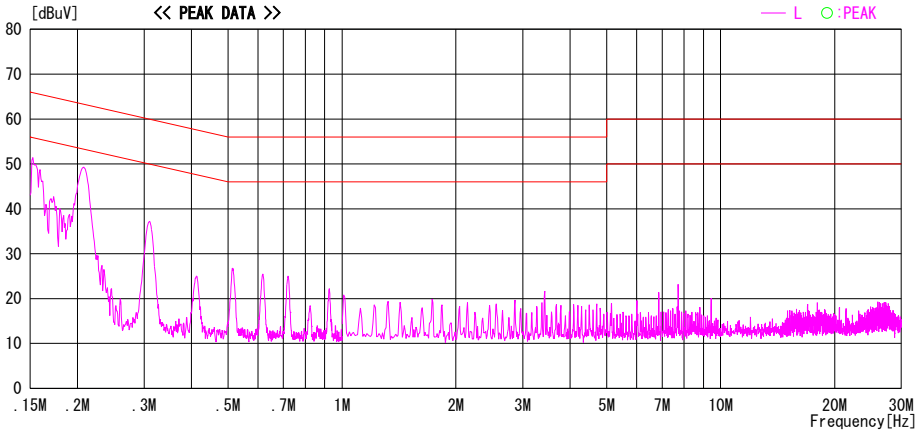


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Rx, 5765MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

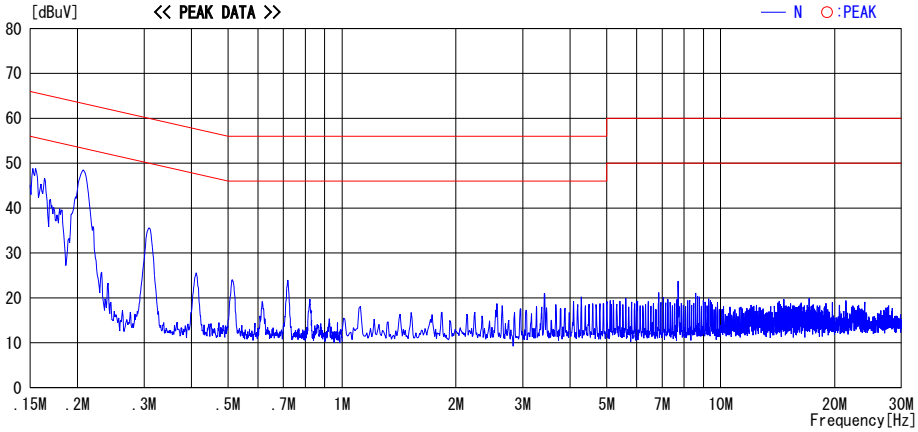
DATA OF CONDUCTED EMISSION TEST

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 : Rx 5765MHz / 11a / Ant:A

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



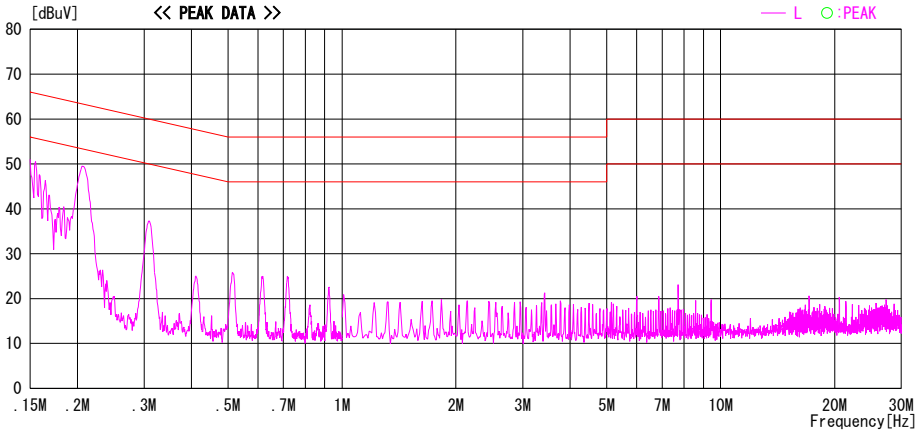


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a, Rx, 5765MHz (SX-10WAG + CA-RSPNMA004 + SR49120WDA)

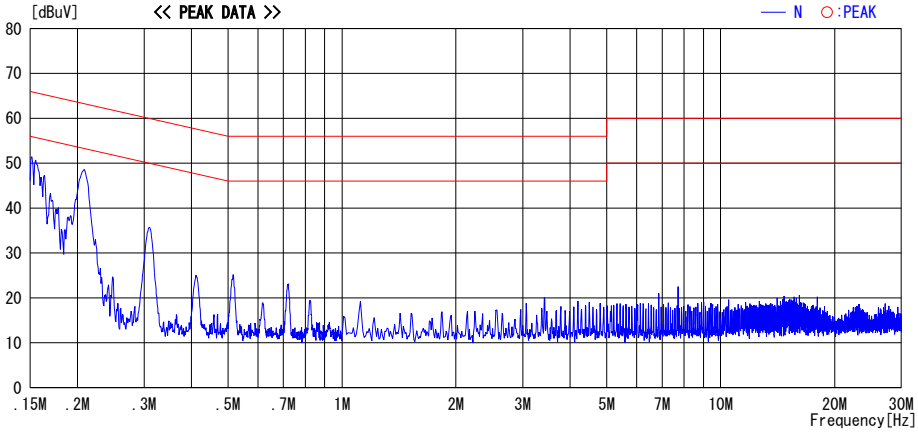
DATA OF CONDUCTED EMISSION TEST

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 5765MHz / 11a / Ant:A

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



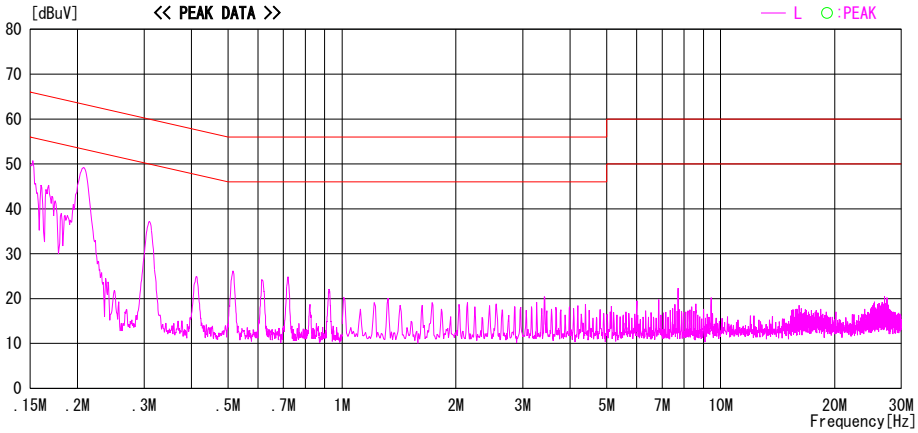


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Radiated Spurious Emission (below 1GHz)

11a, Tx, 5745MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

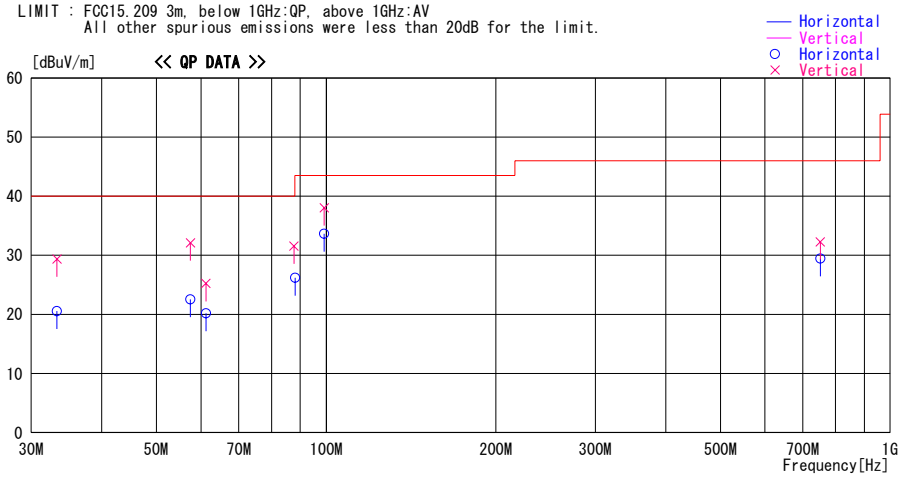
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/02/06

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. : 20deg.C / 38%
Operator : Hisayoshi Sato

Mode / Remarks : Tx 5745MHz / 11a / 54Mbps / Ant:A / module-axis: H:Z, V:Z / Antenna-axis: normal-axis

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
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
33.339	37.0	QP	17.3	-24.9	29.4	0	100	Vert.	40.0	10.6	
33.341	28.1	QP	17.3	-24.9	20.5	0	370	Hori.	40.0	19.5	
57.479	38.7	QP	8.4	-24.5	22.6	148	398	Hori.	40.0	17.5	
57.490	48.2	QP	8.4	-24.5	32.1	164	100	Vert.	40.0	7.9	
61.245	36.9	QP	7.7	-24.4	20.2	155	297	Hori.	40.0	19.8	
61.252	41.9	QP	7.7	-24.4	25.2	136	100	Vert.	40.0	14.8	
87.720	47.9	QP	7.8	-24.1	31.6	274	121	Vert.	40.0	8.4	
88.070	42.5	QP	7.8	-24.1	26.2	359	300	Hori.	43.5	17.3	
99.207	52.0	QP	10.0	-24.0	38.0	0	100	Vert.	43.5	5.5	
99.207	47.7	QP	10.0	-24.0	33.7	135	314	Hori.	43.5	9.8	
751.690	29.5	QP	22.4	-19.6	32.3	161	124	Vert.	46.0	13.7	
751.721	26.7	QP	22.4	-19.6	29.5	359	100	Hori.	46.0	16.5	

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

*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, 5745MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

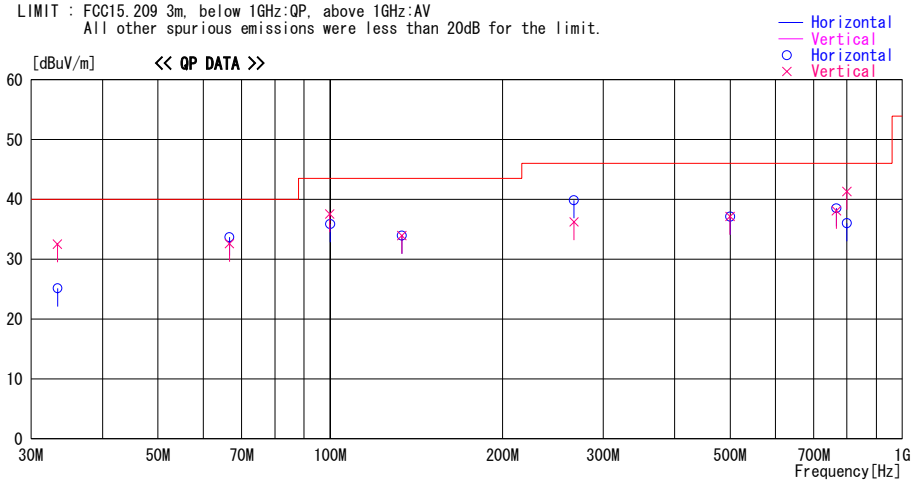
DATA OF RADIATED EMISSION TEST

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 5745MHz / 11a / 54Mbps / Ant:A / module-axis: H:Z, V:Z / Antenna-axis: normal

LIMIT : FCC15.209 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]	
33.339	37.3	QP	17.2	-22.0	32.5	261	100	Vert.	40.0	7.5	
33.385	29.9	QP	17.2	-22.0	25.1	172	100	Hori.	40.0	14.9	
66.663	47.0	QP	7.1	-21.5	32.6	355	100	Vert.	40.0	7.4	
66.663	48.1	QP	7.1	-21.5	33.7	206	277	Hori.	40.0	6.3	
99.800	48.8	QP	9.9	-21.2	37.5	251	112	Vert.	43.5	6.0	
99.995	47.1	QP	10.0	-21.2	35.9	272	294	Hori.	43.5	7.6	
133.331	41.3	QP	13.4	-20.8	33.9	56	100	Vert.	43.5	9.6	
133.336	41.3	QP	13.4	-20.8	33.9	176	177	Hori.	43.5	9.6	
266.658	41.0	QP	18.1	-19.2	39.9	237	100	Hori.	46.0	6.1	
266.675	37.3	QP	18.1	-19.2	36.2	153	234	Vert.	46.0	9.8	
499.877	39.2	QP	17.4	-19.5	37.1	153	100	Vert.	46.0	8.9	
499.988	39.2	QP	17.4	-19.5	37.1	153	100	Hori.	46.0	8.9	
766.674	35.2	QP	21.4	-18.1	38.5	92	100	Hori.	46.0	7.5	
766.692	34.8	QP	21.4	-18.1	38.1	127	176	Vert.	46.0	7.9	
800.007	32.1	QP	21.7	-17.8	36.0	74	100	Hori.	46.0	10.0	
800.049	37.4	QP	21.7	-17.8	41.3	191	134	Vert.	46.0	4.7	

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, 5745MHz (SX-10WAG + CA-RSPNMA004 + SR49120WDA)

DATA OF RADIATED EMISSION TEST

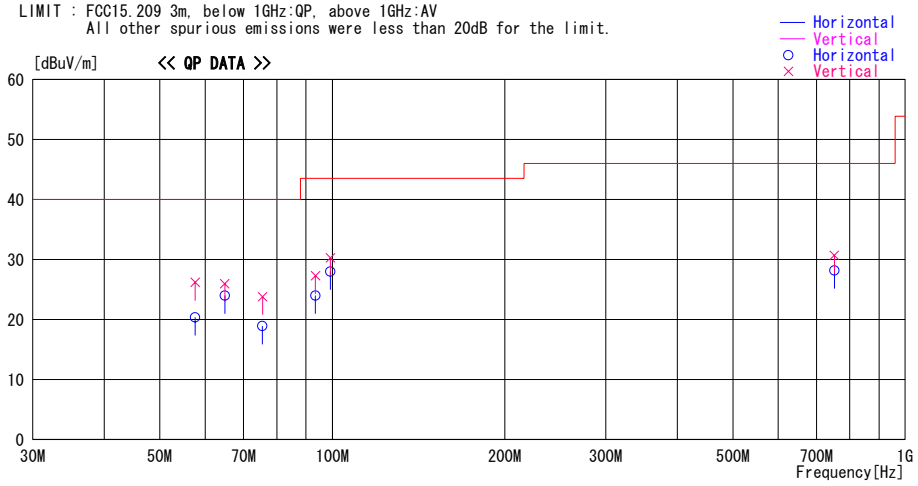
UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/02/08

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN board
Model No. : SX-10WAG + SR49120WDA + Cable4
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 5745MHz / 11a / 54Mbps / Ant:A / module-axis: H:Z, V:Z / Antenna-axis: normal-axis

LIMIT : FCC15.209 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]	
57.646	42.4	QP	8.3	-24.5	26.2	167	100	Vert.	40.0	13.8	
57.631	36.6	QP	8.3	-24.5	20.4	153	300	Hori.	40.0	19.6	
64.914	41.2	QP	7.2	-24.4	24.0	174	300	Hori.	40.0	16.0	
64.911	43.2	QP	7.2	-24.4	26.0	144	100	Vert.	40.0	14.0	
75.544	36.6	QP	6.5	-24.2	18.9	335	300	Hori.	40.0	21.1	
75.566	41.5	QP	6.5	-24.2	23.8	278	100	Vert.	40.0	16.2	
93.476	42.6	QP	8.8	-24.1	27.3	99	100	Vert.	43.5	16.2	
93.480	39.3	QP	8.8	-24.1	24.0	153	300	Hori.	43.5	19.5	
99.241	42.2	QP	9.8	-24.0	28.0	150	201	Hori.	43.5	15.5	
99.222	44.5	QP	9.8	-24.0	30.3	102	100	Vert.	43.5	13.2	
751.691	29.2	QP	20.9	-19.4	30.7	147	128	Vert.	46.0	15.3	
751.694	26.7	QP	20.9	-19.4	28.2	3	100	Hori.	46.0	17.8	

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.

Radiated Spurious Emission (below 1GHz)

11a, Tx, 5765MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

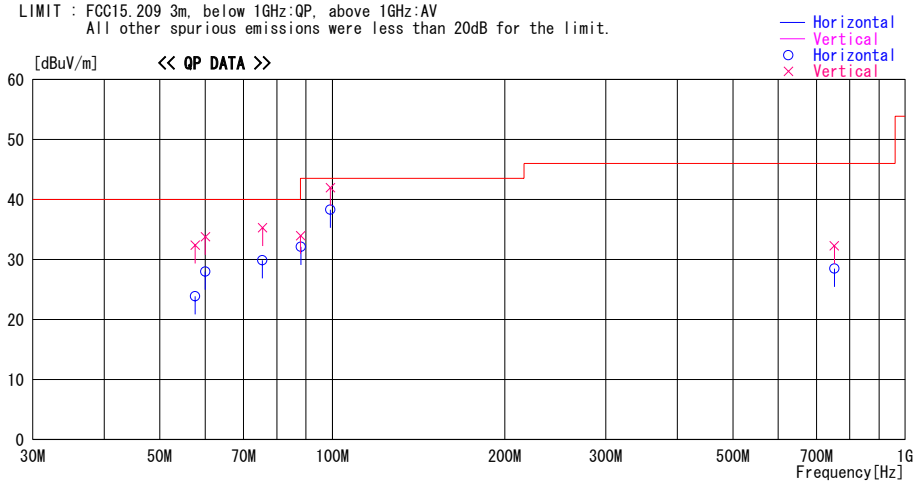
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/02/07

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.	: 24deg.C / 27%
Serial No.	: 32 + 1	Operator	: Satofumi Matsuyama

Mode / Remarks : Tx 5765MHz / 11a / 54Mbps / Ant:A / module-axis: H:Z, V:Z / Antenna-axis: normal-axis

LIMIT : FCC15.209 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]	
57.657	48.6	QP	8.3	-24.5	32.4	163	100	Vert.	40.0	7.6	
57.659	40.1	QP	8.3	-24.5	23.9	153	300	Hori.	40.0	16.1	
60.015	44.6	QP	7.8	-24.4	28.0	129	300	Hori.	40.0	12.0	
60.026	50.4	QP	7.8	-24.4	33.8	161	100	Vert.	40.0	6.2	
75.545	47.6	QP	6.5	-24.2	29.9	335	300	Hori.	40.0	10.1	
75.548	53.0	QP	6.5	-24.2	35.3	281	100	Vert.	40.0	4.7	
88.057	50.3	QP	7.8	-24.1	34.0	193	100	Vert.	43.5	9.5	
88.077	48.4	QP	7.8	-24.1	32.1	330	210	Hori.	43.5	11.4	
99.214	52.5	QP	9.8	-24.0	38.3	149	199	Hori.	43.5	5.2	
99.215	56.2	QP	9.8	-24.0	42.0	100	100	Vert.	43.5	1.5	
751.690	30.8	QP	20.9	-19.4	32.3	135	136	Vert.	46.0	13.7	
751.695	27.0	QP	20.9	-19.4	28.5	3	100	Hori.	46.0	17.5	

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

*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, 5765MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

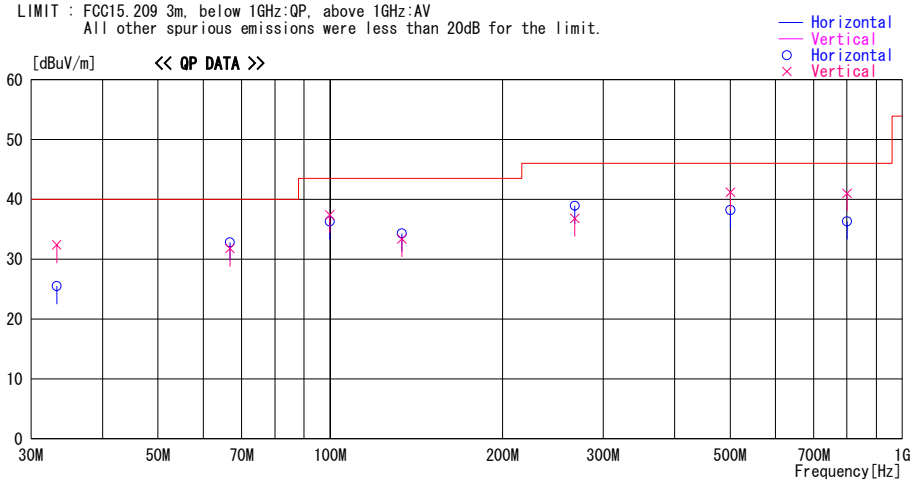
DATA OF RADIATED EMISSION TEST

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 5765MHz / 11a / 54Mbps / Ant:A / module-axis: H:Z, V:Z / Antenna-axis: normal

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
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
33.246	30.2	QP	17.3	-22.0	25.5	187	300	Hori.	40.0	14.5	
33.246	37.1	QP	17.3	-22.0	32.4	219	100	Vert.	40.0	7.6	
66.794	47.2	QP	7.1	-21.5	32.8	38	300	Hori.	40.0	7.2	
66.794	46.2	QP	7.1	-21.5	31.8	74	100	Vert.	40.0	8.2	
99.800	47.6	QP	9.9	-21.2	36.3	92	300	Hori.	43.5	7.2	
99.800	48.7	QP	9.9	-21.2	37.4	314	100	Vert.	43.5	6.1	
133.347	41.7	QP	13.4	-20.8	34.3	158	300	Hori.	43.5	9.2	
133.347	40.8	QP	13.4	-20.8	33.4	238	100	Vert.	43.5	10.1	
267.534	39.9	QP	18.2	-19.2	38.9	212	300	Hori.	46.0	7.1	
267.534	37.8	QP	18.2	-19.2	36.8	144	100	Vert.	46.0	9.2	
500.601	40.2	QP	17.5	-19.5	38.2	227	100	Hori.	46.0	7.8	
500.601	43.2	QP	17.5	-19.5	41.2	166	100	Vert.	46.0	4.8	
800.806	32.4	QP	21.7	-17.8	36.3	81	100	Hori.	46.0	9.7	
800.806	37.1	QP	21.7	-17.8	41.0	51	100	Vert.	46.0	5.0	

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 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, 5765MHz (SX-10WAG + CA-RSPNMA004 + SR49120WDA)

DATA OF RADIATED EMISSION TEST

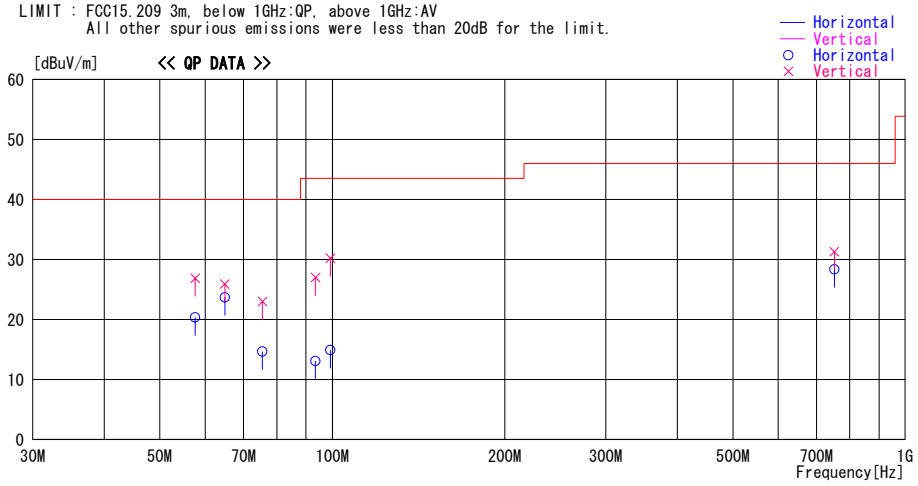
UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/02/08

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN board
Model No. : SX-10WAG + SR49120WDA + Cable4
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 5765MHz / 11a / 54Mbps / Ant:A / module-axis: H:Z, V:Z / Antenna-axis: normal-axis

LIMIT : FCC15.209 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]	
57.646	43.1	QP	8.3	-24.5	26.9	179	100	Vert.	40.0	13.1	
57.648	36.6	QP	8.3	-24.5	20.4	152	300	Hori.	40.0	19.6	
64.906	40.9	QP	7.2	-24.4	23.7	176	300	Hori.	40.0	16.3	
64.911	43.1	QP	7.2	-24.4	25.9	140	100	Vert.	40.0	14.1	
75.540	32.4	QP	6.5	-24.2	14.7	331	300	Hori.	40.0	25.3	
75.545	40.7	QP	6.5	-24.2	23.0	267	100	Vert.	40.0	17.0	
93.468	42.3	QP	8.8	-24.1	27.0	95	100	Vert.	43.5	16.5	
93.477	28.4	QP	8.8	-24.1	13.1	9	300	Hori.	43.5	30.4	
99.235	29.1	QP	9.8	-24.0	14.9	150	201	Hori.	43.5	28.6	
99.223	44.4	QP	9.8	-24.0	30.2	103	100	Vert.	43.5	13.3	
751.687	29.8	QP	20.9	-19.4	31.3	132	130	Vert.	46.0	14.7	
751.691	26.9	QP	20.9	-19.4	28.4	3	100	Hori.	46.0	17.6	

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

*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, Tx, 5805MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

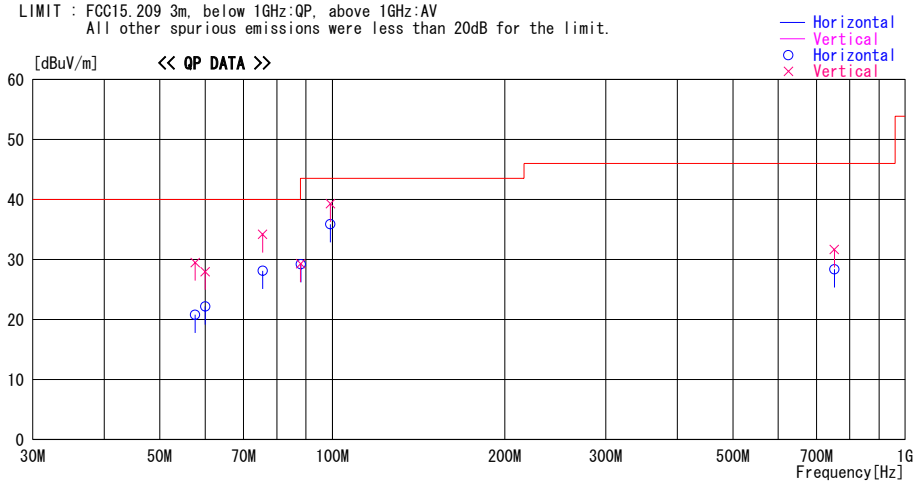
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/02/07

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 5805MHz / 11a / 54Mbps / Ant:A / module-axis: H:Z, V:Z / Antenna-axis: normal-axis

LIMIT : FCC15.209 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]	
57.639	45.7	QP	8.3	-24.5	29.5	158	100	Vert.	40.0	10.5	
57.640	37.0	QP	8.3	-24.5	20.8	150	300	Hori.	40.0	19.2	
60.029	38.8	QP	7.8	-24.4	22.2	122	300	Hori.	40.0	17.8	
60.016	44.6	QP	7.8	-24.4	28.0	157	100	Vert.	40.0	12.0	
75.585	45.8	QP	6.5	-24.2	28.1	329	300	Hori.	40.0	11.9	
75.566	51.9	QP	6.5	-24.2	34.2	278	100	Vert.	40.0	5.8	
88.047	45.6	QP	7.8	-24.1	29.3	189	100	Vert.	43.5	14.2	
88.077	45.5	QP	7.8	-24.1	29.2	329	222	Hori.	43.5	14.3	
99.225	50.1	QP	9.8	-24.0	35.9	153	195	Hori.	43.5	7.6	
99.211	53.5	QP	9.8	-24.0	39.3	99	100	Vert.	43.5	4.2	
751.691	30.2	QP	20.9	-19.4	31.7	131	137	Vert.	46.0	14.3	
751.694	26.9	QP	20.9	-19.4	28.4	5	100	Hori.	46.0	17.6	

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

*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, 5805MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

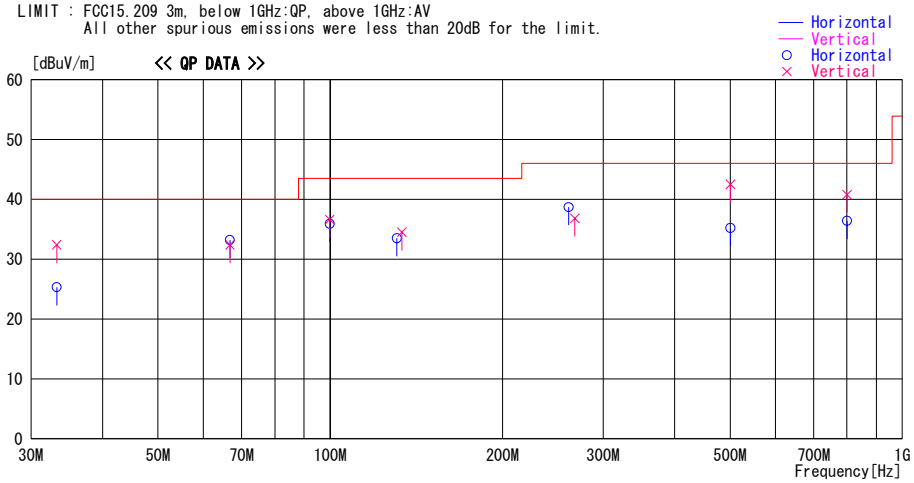
DATA OF RADIATED EMISSION TEST

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

Company	: silex technology, Inc.	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.	: 24deg.C / 33%
Serial No.	: 32 + 1	Operator	: Tomotaka Sasagawa

Mode / Remarks : Tx 5805MHz / 11a / 54Mbps / Ant:A / module-axis: H:Z, V:Z / Antenna-axis: normal

LIMIT : FCC15.209 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]	
33.246	30.0	QP	17.3	-22.0	25.3	171	300	Hori.	40.0	14.7	
33.246	37.1	QP	17.3	-22.0	32.4	239	100	Vert.	40.0	7.6	
66.794	47.6	QP	7.1	-21.5	33.2	49	300	Hori.	40.0	6.8	
66.794	46.8	QP	7.1	-21.5	32.4	41	100	Vert.	40.0	7.6	
99.800	47.2	QP	9.9	-21.2	35.9	102	300	Hori.	43.5	7.6	
99.800	47.9	QP	9.9	-21.2	36.6	11	100	Vert.	43.5	6.9	
130.641	41.2	QP	13.1	-20.8	33.5	87	300	Hori.	43.5	10.0	
133.347	41.9	QP	13.4	-20.8	34.5	238	100	Vert.	43.5	9.0	
261.041	40.2	QP	17.8	-19.3	38.7	47	300	Hori.	46.0	7.3	
267.534	37.8	QP	18.2	-19.2	36.8	165	100	Vert.	46.0	9.2	
500.601	37.2	QP	17.5	-19.5	35.2	239	100	Hori.	46.0	10.8	
500.601	44.5	QP	17.5	-19.5	42.5	152	100	Vert.	46.0	3.5	
800.806	32.5	QP	21.7	-17.8	36.4	81	100	Hori.	46.0	9.6	
800.806	36.9	QP	21.7	-17.8	40.8	269	100	Vert.	46.0	5.2	

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)

*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, 5805MHz (SX-10WAG + CA-RSPNMA004 + SR49120WDA)

DATA OF RADIATED EMISSION TEST

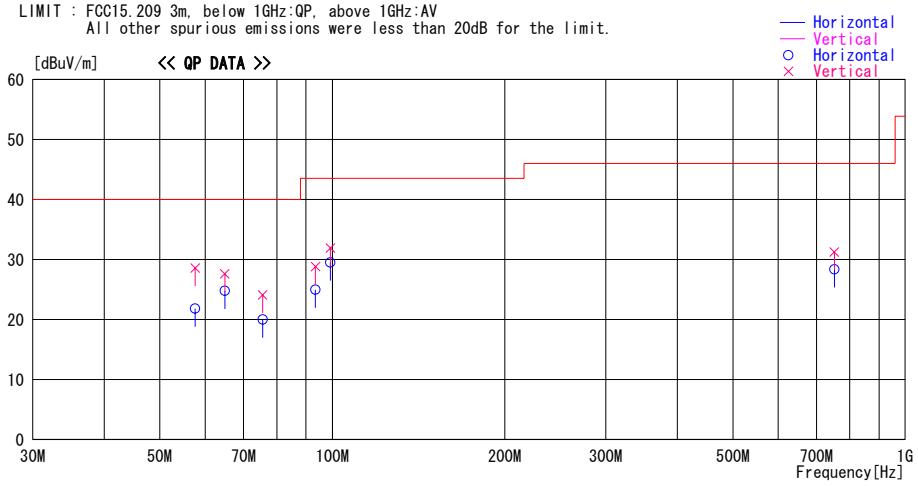
UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/02/08

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN board
Model No. : SX-10WAG + SR49120WDA + Cable4
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 5805MHz / 11a / 54Mbps / Ant:A / module-axis: H:Z, V:Z / Antenna-axis: normal-axis

LIMIT : FCC15.209 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]	
57.637	44.8	QP	8.3	-24.5	28.6	175	100	Vert.	40.0	11.4	
57.637	38.0	QP	8.3	-24.5	21.8	146	300	Hori.	40.0	18.2	
64.918	42.0	QP	7.2	-24.4	24.8	191	300	Hori.	40.0	15.2	
64.914	44.8	QP	7.2	-24.4	27.6	144	100	Vert.	40.0	12.4	
75.554	37.7	QP	6.5	-24.2	20.0	227	300	Hori.	40.0	20.0	
75.573	41.8	QP	6.5	-24.2	24.1	237	100	Vert.	40.0	15.9	
93.475	44.1	QP	8.8	-24.1	28.8	91	100	Vert.	43.5	14.7	
93.488	40.3	QP	8.8	-24.1	25.0	145	300	Hori.	43.5	18.5	
99.233	43.7	QP	9.8	-24.0	29.5	155	300	Hori.	43.5	14.0	
99.228	46.1	QP	9.8	-24.0	31.9	115	100	Vert.	43.5	11.6	
751.685	29.8	QP	20.9	-19.4	31.3	130	128	Vert.	46.0	14.7	
751.689	26.9	QP	20.9	-19.4	28.4	6	100	Hori.	46.0	17.6	

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

*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, 5765MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

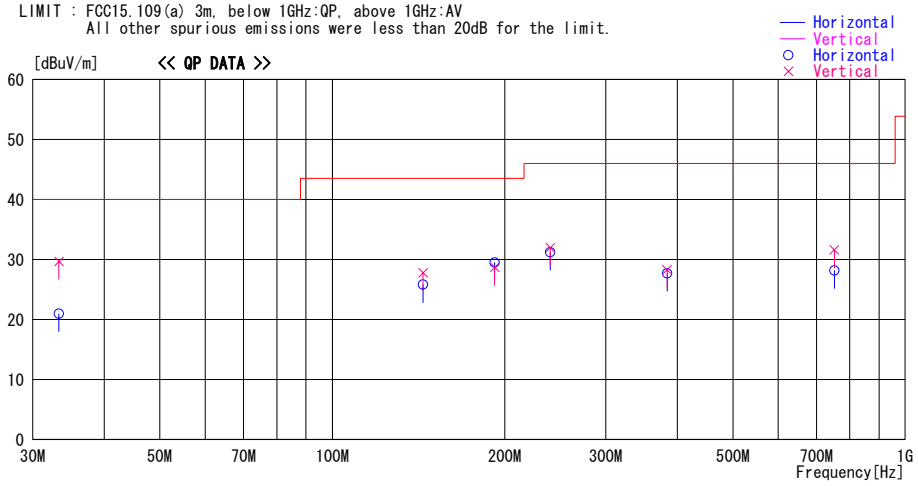
DATA OF RADIATED EMISSION TEST

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 5765MHz / 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]	
33.342	28.8	QP	17.2	-25.0	21.0	324	300	Hori.	40.0	19.0	
33.340	37.5	QP	17.2	-25.0	29.7	324	100	Vert.	40.0	10.3	
144.023	34.6	QP	14.6	-23.4	25.8	96	228	Hori.	43.5	17.7	
144.022	36.6	QP	14.6	-23.4	27.8	115	100	Vert.	43.5	15.7	
192.005	36.1	QP	16.3	-22.9	29.5	269	185	Hori.	43.5	14.0	
191.995	35.3	QP	16.3	-22.9	28.7	153	100	Vert.	43.5	14.8	
240.016	37.3	QP	16.4	-22.5	31.2	262	136	Hori.	46.0	14.8	
240.037	38.1	QP	16.4	-22.5	32.0	165	100	Vert.	46.0	14.0	
383.995	32.3	QP	16.9	-21.5	27.7	273	100	Hori.	46.0	18.3	
383.998	32.9	QP	16.9	-21.5	28.3	54	127	Vert.	46.0	17.7	
751.677	26.7	QP	20.9	-19.4	28.2	4	100	Hori.	46.0	17.8	
751.678	30.1	QP	20.9	-19.4	31.6	131	132	Vert.	46.0	14.4	

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

*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, 5765MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

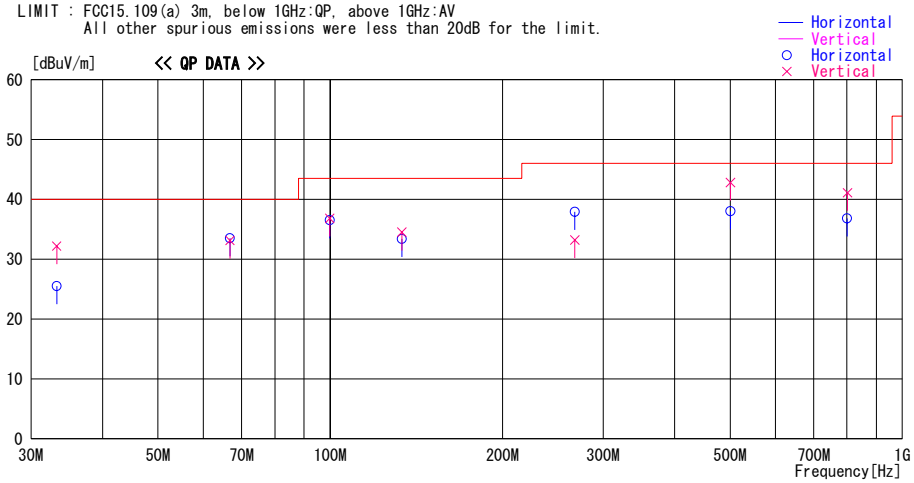
DATA OF RADIATED EMISSION TEST

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 5765MHz / 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]	
33.246	30.2	QP	17.3	-22.0	25.5	196	300	Hori.	40.0	14.5	
33.246	36.9	QP	17.3	-22.0	32.2	3	100	Vert.	40.0	7.8	
66.794	47.9	QP	7.1	-21.5	33.5	37	300	Hori.	40.0	6.5	
66.794	47.5	QP	7.1	-21.5	33.1	81	100	Vert.	40.0	6.9	
99.800	47.8	QP	9.9	-21.2	36.5	106	300	Hori.	43.5	7.0	
99.800	48.1	QP	9.9	-21.2	36.8	3	100	Vert.	43.5	6.7	
133.347	40.8	QP	13.4	-20.8	33.4	165	300	Hori.	43.5	10.1	
133.347	41.9	QP	13.4	-20.8	34.5	5	100	Vert.	43.5	9.0	
267.534	38.9	QP	18.2	-19.2	37.9	206	300	Hori.	46.0	8.1	
267.534	34.2	QP	18.2	-19.2	33.2	333	100	Vert.	46.0	12.8	
500.601	40.0	QP	17.5	-19.5	38.0	241	100	Hori.	46.0	8.0	
500.601	44.8	QP	17.5	-19.5	42.8	165	100	Vert.	46.0	3.2	
800.806	32.9	QP	21.7	-17.8	36.8	122	100	Hori.	46.0	9.2	
802.209	37.2	QP	21.7	-17.8	41.1	119	100	Vert.	46.0	4.9	

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)

*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, 5765MHz (SX-10WAG + CA-RSPNMA004 + SR49120WDA)

DATA OF RADIATED EMISSION TEST

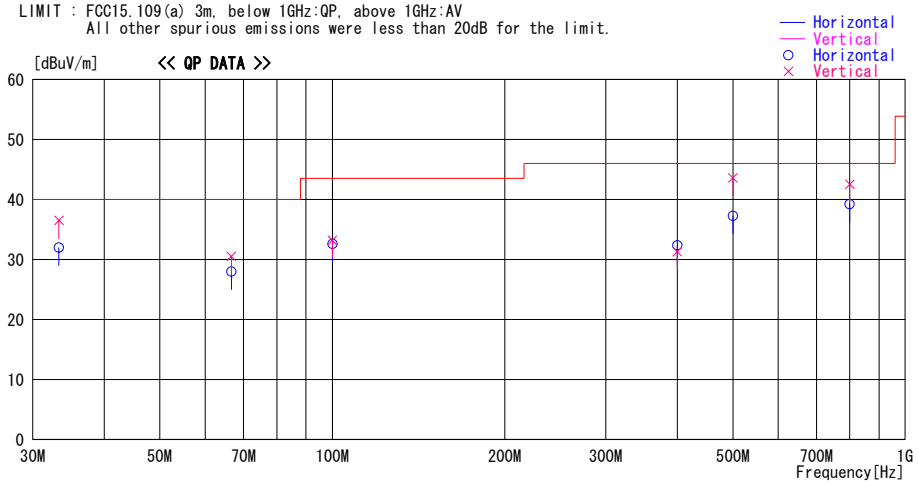
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2008/02/10

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 5765MHz / 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	36.8	QP	17.2	-22.0	32.0	165	176	Hori.	40.0	8.0	
33.333	41.3	QP	17.2	-22.0	36.5	360	100	Vert.	40.0	3.5	
66.667	42.4	QP	7.1	-21.5	28.0	19	400	Hori.	40.0	12.0	
66.667	44.9	QP	7.1	-21.5	30.5	70	100	Vert.	40.0	9.5	
100.000	43.8	QP	10.0	-21.2	32.6	136	254	Hori.	43.5	10.9	
100.000	44.4	QP	10.0	-21.2	33.2	118	100	Vert.	43.5	10.3	
400.000	34.3	QP	17.4	-19.3	32.4	336	100	Hori.	46.0	13.6	
400.000	33.2	QP	17.4	-19.3	31.3	179	106	Vert.	46.0	14.7	
500.000	39.4	QP	17.4	-19.5	37.3	101	157	Hori.	46.0	8.7	
500.000	45.7	QP	17.4	-19.5	43.6	170	100	Vert.	46.0	2.4	
800.000	35.4	QP	21.7	-17.9	39.2	97	100	Hori.	46.0	6.8	
800.000	38.7	QP	21.7	-17.9	42.5	175	121	Vert.	46.0	3.5	

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

*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 (above 1GHz:Inside of the restricted band)

11a Tx, 5745MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + 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 15.209 / RSS-210 A9.3		
Equipment	MiniPCI Wireless LAN board			Test Distance	3m / 1m		
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5808U	Date	January 16, 2008,	January 18, 2008,	January 31, 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 5745MHz, Ant:A, 54Mbps,			Engineer	Takumi Shimada,	Takumi Shimada,	Akio Hayashi
EUT-Position	H: Z-axis, V:Z-axis				(No.3, 1G-10GHz)	(No.1, 10G-18GHz)	(No.1, 18GHz-40GHz)
Ant.-Position	Nornal-axis						

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

No.	Freq.	Reading		Ant. Factor	Amp. Gain	Cable Loss	Atten. or Filter	Result		Limit	Margin	
		HOR	VER					HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2872.3	71.1	64.1	28.1	31.4	3.3	0.0	71.1	64.1	73.9	2.8	9.8
2	3830.0	47.4	50.2	29.5	30.9	3.6	0.0	49.6	52.4	73.9	24.3	21.5
3	7660.0	43.7	43.6	36.4	31.3	5.4	1.2	55.4	55.3	73.9	18.5	18.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
4	11490.0	56.4	60.2	40.2	36.4	6.4	1.4	58.5	62.3	73.9	15.4	11.6
5	22980.0	34.9	33.8	40.7	23.6	13.5	0.0	56.0	54.9	73.9	17.9	19.0

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

No.	Freq.	Reading		Ant. Factor	Amp. Gain	Cable Loss	Atten. or Filter	Result		Limit	Margin	
		HOR	VER					HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2872.3	43.6	39.2	28.1	31.4	3.3	0.0	43.6	39.2	53.9	10.3	14.7
2	3830.0	42.0	45.9	29.5	30.9	3.6	0.0	44.2	48.1	53.9	9.7	5.8
3	7660.0	34.2	34.4	36.4	31.3	5.4	1.2	45.9	46.1	53.9	8.0	7.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
4	11490.0	41.4	46.6	40.2	36.4	6.4	1.4	43.5	48.7	53.9	10.4	5.2
5	22980.0	23.2	23.1	40.7	23.6	13.5	0.0	44.3	44.2	53.9	9.6	9.7

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*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.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

11a Tx, 5745MHz (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 15.209 / RSS-210 A9.3		
Equipment	MiniPCI Wireless LAN board			Test Distance	3m / 1m		
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5817D	Date	January 18, 2008,	January 19, 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	33%,	33%	33%
Mode	11a, Tx 5745MHz, Ant:A, 54Mbps,			Engineer	Tomotaka Sasagawa, (No.3, 1G-10GHz)	Takumi Shimada (No.1, 10G-18GHz)	Akio Hayashi (No.1, 18GHz-40GHz)
EUT-Position	H: Z-axis, V:Z-axis						
Ant.-Position	Nornal-axis						

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

No.	Freq.	Reading		Ant. Factor	Amp. Gain	Cable Loss	Atten. or Filter	Result		Limit	Margin	
		HOR	VER					HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2870.1	52.3	53.2	28.1	31.4	3.3	0.0	52.3	53.2	73.9	21.6	20.7
2	3830.0	46.9	47.1	29.5	30.9	3.6	0.0	49.1	49.3	73.9	24.8	24.6
3	7660.0	42.1	42.1	36.4	31.3	4.9	0.0	52.1	52.1	73.9	21.8	21.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
4	11490.0	56.8	58.2	40.2	36.4	6.4	1.4	58.9	60.3	73.9	15.0	13.6
5	22980.0	33.0	33.7	40.7	23.6	13.5	0.0	54.1	54.8	73.9	19.8	19.1

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

No.	Freq.	Reading		Ant. Factor	Amp. Gain	Cable Loss	Atten. or Filter	Result		Limit	Margin	
		HOR	VER					HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2870.1	43.4	42.7	28.1	31.4	3.3	0.0	43.4	42.7	53.9	10.5	11.2
2	3830.0	37.9	38.7	29.5	30.9	3.6	0.0	40.1	40.9	53.9	13.8	13.0
3	7660.0	30.9	31.2	36.4	31.3	4.9	0.0	40.9	41.2	53.9	13.0	12.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
4	11490.0	44.5	45.7	40.2	36.4	6.4	1.4	46.6	47.8	53.9	7.3	6.1
5	22980.0	23.3	22.9	40.7	23.6	13.5	0.0	44.4	44.0	53.9	9.5	9.9

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*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.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

11a Tx, 5745MHz (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 15.209 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board		Test Distance	3m / 1m	
Model	SX-10WAG, CA-RSPNMA004,	SR49120WDA	Date	January 18, 2008	January 27, 2008
S/N	32	1	Temperature	25 deg.C	24 deg.C
Power	DC 3.3V (PC input AC120V / 60Hz)		Humidity	33%	31 %
Mode	11a, Tx 5745MHz, Ant:A, 54Mbps,		Engineer	Kenichi Adachi	Norihisa Hashimoto
EUT-Position	H: Z-axis, V:Z-axis			(No.3, 1G-18GHz)	(No.1, 18G-26GHz)
Ant.-Position	Nornal-axis				

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2872.5	73.3	70.2	28.1	31.4	3.3	0.0	73.3	70.2	73.9	0.6	3.7
2	3830.0	47.8	52.5	29.5	30.9	3.6	0.0	50.0	54.7	73.9	23.9	19.2
3	5440.0	45.5	54.3	32.1	30.7	4.1	0.0	51.0	59.8	73.9	22.9	14.1
4	7660.0	46.0	45.2	36.4	31.3	4.9	0.0	56.0	55.2	73.9	17.9	18.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
5	11490.0	60.0	61.9	40.2	36.4	6.4	1.4	62.1	64.0	73.9	11.8	9.9
6	22980.0	43.0	43.5	41.0	23.6	13.5	0.0	64.4	64.9	73.9	9.5	9.0

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2872.5	45.6	42.3	28.1	31.4	3.3	0.0	45.6	42.3	53.9	8.3	11.6
2	3830.0	43.0	47.7	29.5	30.9	3.6	0.0	45.2	49.9	53.9	8.7	4.0
3	5440.0	36.0	47.2	32.1	30.7	4.1	0.0	41.5	52.7	53.9	12.4	1.2
4	7660.0	39.1	37.3	36.4	31.3	4.9	0.0	49.1	47.3	53.9	4.8	6.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
5	11490.0	46.6	48.1	40.2	36.4	6.4	1.4	48.7	50.2	53.9	5.2	3.7
6	22980.0	29.6	29.6	41.0	23.6	13.5	0.0	51.0	51.0	53.9	2.9	2.9

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*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.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

11a Tx, 5765MHz (SX-10WAG + CA-RSPNMA004 + HG5808U)
(Reference)

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

Company	silex technology, Inc.	Regulation	FCC Part15 Subpart E 15.209 / RSS-210 A9.3
Equipment	MiniPCI Wireless LAN board	Test Distance	1m
Model	SX-10WAG, CA-RSPNMA004, HG5808U	Date	January 15, 2008
S/N	32 1	Temperature	23 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)	Humidity	34 %
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,	Engineer	Norihisa Hashimoto
EUT-Position	H: Z-axis, V:Z-axis		
Ant.-Position	Nornal-axis		

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11530.0	54.4	57.4	39.7	32.3	7.1	1.1	60.5	63.5	73.9	13.4	10.4

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11530.0	43.2	46.7	39.7	32.3	7.1	1.1	49.3	52.8	53.9	4.6	1.1

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*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.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

11a Tx, 5765MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

UL Japan, Inc.

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

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.209 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board			Test Distance	3m/1m	
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5808U	Date	January 16, 2008,	January 31, 2008
S/N	32		1	Temperature	24 deg.C.,	26deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	36%,	33%
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,			Engineer	Takumi Shimada, (No.3, 1G-18GHz)	Akio Hayashi (No.1, 18G-26GHz)
EUT-Position	H: Z-axis, V:Z-axis					
Ant.-Position	Nornal-axis					

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

No.	Freq.	Reading		Ant. Factor	Amp. Gain	Cable Loss	Atten. or Filter	Result		Limit PK	Margin	
		HOR	VER					HOR	VER		HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2888.2	64.2	62.1	28.1	31.4	3.3	0.0	64.2	62.1	73.9	9.7	11.8
2	3843.3	47.2	49.5	29.5	30.9	3.6	0.0	49.4	51.7	73.9	24.5	22.2
3	7686.7	44.1	43.9	36.4	31.3	5.4	1.2	55.8	55.6	73.9	18.1	18.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
4	11530.0	54.8	57.3	39.7	32.3	7.1	1.1	60.9	63.4	73.9	13.0	10.5
5	23060.0	34.9	33.8	40.6	23.6	13.5	0.0	55.9	54.8	73.9	18.0	19.1

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

No.	Freq.	Reading		Ant. Factor	Amp. Gain	Cable Loss	Atten. or Filter	Result		Limit AV	Margin	
		HOR	VER					HOR	VER		HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2888.2	37.7	35.1	28.1	31.4	3.3	0.0	37.7	35.1	53.9	16.2	18.8
2	3843.3	41.5	46.6	29.5	30.9	3.6	0.0	43.7	48.8	53.9	10.2	5.1
3	7686.7	36.2	35.1	36.4	31.3	5.4	1.2	47.9	46.8	53.9	6.0	7.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
4	11530.0	43.9	46.4	39.7	32.3	7.1	1.1	50.0	52.5	53.9	3.9	1.4
5	23060.0	23.0	23.0	40.6	23.6	13.5	0.0	44.0	44.0	53.9	9.9	9.9

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*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.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

11a Tx, 5765MHz (SX-10WAG + CA4NMRSF020 + HG5808U)
(Reference)

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

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.209 / RSS-210 A9.3
Equipment	MiniPCI Wireless LAN board			Test Distance	1m
Model	SX-10WAG,	CA4NMRSF020,	HG5808U	Date	January 15, 2008
S/N	32		1	Temperature	23 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	34 %
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,			Engineer	Norihisa Hashimoto
EUT-Position	H: Z-axis, V:Z-axis				
Ant.-Position	Nornal-axis				

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11530.0	57.8	57.9	39.7	32.3	7.1	1.1	63.9	64.0	73.9	10.0	9.9

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11530.0	45.9	46.8	39.7	32.3	7.1	1.1	52.0	52.9	53.9	1.9	1.0

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*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.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

11a Tx, 5765MHz (SX-10WAG + CA-RSPNMA004 + HG5817D)
(Reference)

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

Company	silex technology, Inc.		Regulation	FCC Part15 Subpart E 15.209 / RSS-210 A9.3
Equipment	MiniPCI Wireless LAN board		Test Distance	1m
Model	SX-10WAG, CA-RSPNMA004,	HG5817D	Date	January 10, 2008
S/N	32	1	Temperature	22 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)		Humidity	35%
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,		Engineer	Kenichi Adachi
EUT-Position	H: Z-axis, V:Z-axis			
Ant.-Position	Nornal-axis			

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11530.0	54.5	55.4	39.8	33.1	6.1	1.0	58.8	59.7	73.9	15.1	14.2

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11530.0	42.6	44.0	39.8	33.1	6.1	1.0	46.9	48.3	53.9	7.0	5.6

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*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.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

11a Tx, 5765MHz (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 15.209 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board			Test Distance	3m / 1m	
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5817D	Date	January 16, 2008,	January 31, 2008
S/N	32		1	Temperature	24 deg.C.,	26deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	36%,	33%
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,			Engineer	Takumi Shimada,	Akio Hayashi
EUT-Position	H: Z-axis, V:Z-axis				(No.3, 1G-18GHz)	(No.1, 18G-26GHz)
Ant.-Position	Nornal-axis					

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2888.2	52.1	54.1	28.1	31.4	3.3	0.0	52.1	54.1	73.9	21.8	19.8
2	3891.2	47.8	48.9	29.6	30.9	3.6	0.0	50.1	51.2	73.9	23.8	22.7
3	7686.7	41.2	42.1	36.4	31.3	4.9	0.0	51.2	52.1	73.9	22.7	21.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
4	11530.0	55.5	56.2	39.7	32.4	7.1	1.2	61.6	62.3	73.9	12.3	11.6
5	23060.0	33.1	32.8	40.6	23.6	13.5	0.0	54.1	53.8	73.9	19.8	20.1

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2888.2	42.7	43.7	28.1	31.4	3.3	0.0	42.7	43.7	53.9	11.2	10.2
2	3891.2	40.2	39.8	29.6	30.9	3.6	0.0	42.5	42.1	53.9	11.4	11.8
3	7686.7	30.9	31.7	36.4	31.3	4.9	0.0	40.9	41.7	53.9	13.0	12.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
4	11530.0	45.4	45.6	39.7	32.4	7.1	1.2	51.5	51.7	53.9	2.4	2.2
5	23060.0	23.4	22.6	40.6	23.6	13.5	0.0	44.4	43.6	53.9	9.5	10.3

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*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.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

11a Tx, 5765MHz (SX-10WAG + CA4NMRSF020 + HG5817D)
(Reference)

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

Company	silex technology, Inc.		Regulation	FCC Part15 Subpart E 15.209 / RSS-210 A9.3
Equipment	MiniPCI Wireless LAN board		Test Distance	1m
Model	SX-10WAG, CA4NMRSF020,	HG5817D	Date	January 10, 2008
S/N	32	1	Temperature	22 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)		Humidity	35%
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,		Engineer	Kenichi Adachi
EUT-Position	H: Z-axis, V:Z-axis			
Ant.-Position	Nornal-axis			

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11530.0	55.6	57.3	39.8	33.1	6.1	1.0	59.9	61.6	73.9	14.0	12.3

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11530.0	44.5	46.2	39.8	33.1	6.1	1.0	48.8	50.5	53.9	5.1	3.4

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*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.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

11a Tx, 5765MHz (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 15.209 / RSS-210 A9.3		
Equipment	MiniPCI Wireless LAN board		Test Distance	3m / 1m		
Model	SX-10WAG, CA-RSPNMA004,	SR49120WDA	Date	January 25, 2008	January 15, 2008	January 27, 2008
S/N	32	1	Temperature	25 deg.C.	23 deg.C.	24 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)		Humidity	30 %	34%	31%
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,		Engineer	Kenichi Adachi	Kenichi Adachi	Norihisa Hashimoto
EUT-Position	H: Z-axis, V:Z-axis			(No3, 1G-10GHz)	(No3, 10G-18GHz)	(No1, 18G-26GHz)
Ant.-Position	Nornal-axis					

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2884.2	73.1	71.4	28.1	31.4	3.3	0.0	73.1	71.4	73.9	**0.8**	2.5
2	3843.3	47.3	52.0	29.5	30.9	3.6	0.0	49.5	54.2	73.9	24.4	19.7
3	5440.0	45.0	54.8	32.1	30.7	4.1	0.0	50.5	60.3	73.9	23.4	13.6
4	7686.7	46.0	45.4	36.4	31.3	4.9	0.0	56.0	55.4	73.9	17.9	18.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
5	11530.0	57.2	56.2	39.7	32.4	7.1	1.2	63.3	62.3	73.9	10.6	11.6
6	23060.0	42.9	42.5	41.0	23.6	13.5	0.0	64.3	63.9	73.9	9.6	10.0

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2884.2	45.8	43.4	28.1	31.4	3.3	0.0	45.8	43.4	53.9	8.1	10.5
2	3843.3	42.8	47.5	29.5	30.9	3.6	0.0	45.0	49.7	53.9	8.9	4.2
3	5440.0	35.6	46.5	32.1	30.7	4.1	0.0	41.1	52.0	53.9	12.8	1.9
4	7686.7	41.1	37.5	36.4	31.3	4.9	0.0	51.1	47.5	53.9	2.8	6.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
5	11530.0	45.6	44.4	39.7	32.4	7.1	1.2	51.7	50.5	53.9	2.2	3.4
6	23060.0	29.4	29.5	41.0	23.6	13.5	0.0	50.8	50.9	53.9	3.1	3.0

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*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.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

11a Tx, 5765MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + SR49120WDA)
(Reference)

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

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.209 / RSS-210 A9.3
Equipment	MiniPCI Wireless LAN board			Test Distance	1m
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	SR49120WDA	Date	January 15, 2008
S/N	32		1	Temperature	23 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	34%
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,			Engineer	Kenichi Adachi
EUT-Position	H: Z-axis, V:Z-axis				
Ant.-Position	Nornal-axis				

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11530.0	55.5	55.6	39.7	32.4	7.1	1.2	61.6	61.7	73.9	12.3	12.2

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11530.0	44.3	44.4	39.7	32.4	7.1	1.2	50.4	50.5	53.9	3.5	3.4

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*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.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

11a Tx, 5765MHz (SX-10WAG + CA4NMRSF020 + SR49120WDA)
(Reference)

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

Company	silex technology, Inc.	Regulation	FCC Part15 Subpart E 15.209 / RSS-210 A9.3
Equipment	MiniPCI Wireless LAN board	Test Distance	1m
Model	SX-10WAG, CA4NMRSF020, SR49120WDA	Date	January 15, 2008
S/N	32 1	Temperature	23 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)	Humidity	34%
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,	Engineer	Kenichi Adachi
EUT-Position	H: Z-axis, V:Z-axis		
Ant.-Position	Nornal-axis		

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

No.	Freq.	Reading		Ant. Factor	Amp. Gain	Cable Loss	Atten. or Filter	Result		Limit	Margin	
		HOR	VER					HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11530.0	56.4	56.9	39.7	32.4	7.1	1.2	62.5	63.0	73.9	11.4	10.9

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

No.	Freq.	Reading		Ant. Factor	Amp. Gain	Cable Loss	Atten. or Filter	Result		Limit	Margin	
		HOR	VER					HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11530.0	44.6	45.3	39.7	32.4	7.1	1.2	50.7	51.4	53.9	3.2	2.5

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*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.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

11a Tx, 5805MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + 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 15.209 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board			Test Distance	3m / 1m	
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5808U	Date	January 16, 2008,	January 18, 2008,
S/N	32		1	Temperature	24 deg.C,	25 deg.C,
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	36%,	33%,
Mode	11a, Tx 5805MHz, Ant:A, 54Mbps,			Engineer	Takumi Shimada,	Takumi Shimada,
EUT-Position	H: Z-axis, V:Z-axis				(No3, 1G-10GHz)	(No1, 10G-18GHz)
Ant.-Position	Nornal-axis					

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

No.	Freq.	Reading		Ant. Factor	Amp. Gain	Cable Loss	Atten. or Filter	Result		Limit	Margin	
		HOR	VER					HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2861.6	50.2	51.9	28.1	31.4	3.3	0.0	50.2	51.9	73.9	23.7	22.0
2	3856.9	47.0	43.8	29.5	30.9	3.6	0.0	49.2	46.0	73.9	24.7	27.9
3	7739.9	44.0	43.9	36.5	31.3	5.4	1.2	55.8	55.7	73.9	18.1	18.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11610.0	60.7	59.0	40.0	36.4	6.4	1.4	62.6	60.9	73.9	11.3	13.0

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

No.	Freq.	Reading		Ant. Factor	Amp. Gain	Cable Loss	Atten. or Filter	Result		Limit	Margin	
		HOR	VER					HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2861.6	41.9	43.9	28.1	31.4	3.3	0.0	41.9	43.9	53.9	12.0	10.0
2	3856.9	41.5	32.8	29.5	30.9	3.6	0.0	43.7	35.0	53.9	10.2	18.9
3	7739.9	33.9	34.9	36.5	31.3	5.4	1.2	45.7	46.7	53.9	8.2	7.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
1	11610.0	47.1	45.6	40.0	36.4	6.4	1.4	49.0	47.5	53.9	4.9	6.4

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*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.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

11a Tx, 5805MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

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

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.209 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board			Test Distance	3m / 1m	
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5817D	Date	January 18, 2008	January 17, 2008
S/N	32		1	Temperature	25 deg.C	25 deg.C
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	33%	33%
Mode	11a, Tx 5805MHz, Ant:A, 54Mbps,			Engineer	Takumi Shimada	Tomotaka Sasagawa
EUT-Position	H: Z-axis, V:Z-axis				(No1, 1G-10GHz)	(No1, 10G-18GHz)
Ant.-Position	Nornal-axis					

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

No.	Freq.	Reading		Ant. Factor	Amp. Gain	Cable Loss	Atten. or Filter	Result		Limit	Margin	
		HOR	VER					HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2861.6	52.2	52.1	28.1	31.4	3.3	0.0	52.2	52.1	73.9	21.7	21.8
2	3870.0	44.6	46.5	29.6	30.9	3.6	0.0	46.9	48.8	73.9	27.0	25.1
3	7740.0	41.2	42.0	36.5	31.3	4.9	0.0	51.3	52.1	73.9	22.6	21.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
4	11610.0	61.3	61.1	40.0	36.4	6.4	1.4	63.2	63.0	73.9	10.7	10.9

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

No.	Freq.	Reading		Ant. Factor	Amp. Gain	Cable Loss	Atten. or Filter	Result		Limit	Margin	
		HOR	VER					HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2861.6	43.3	43.7	28.1	31.4	3.3	0.0	43.3	43.7	53.9	10.6	10.2
2	3870.0	39.6	42.3	29.6	30.9	3.6	0.0	41.9	44.6	53.9	12.0	9.3
3	7740.0	31.8	32.3	36.5	31.3	4.9	0.0	41.9	42.4	53.9	12.0	11.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
4	11610.0	47.7	48.0	40.0	36.4	6.4	1.4	49.6	49.9	53.9	4.3	4.0

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*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.

Radiated Spurious Emission (above 1GHz:Inside of the restricted band)

11a Tx, 5805MHz (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 15.209 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board		Test Distance	3m / 1m	
Model	SX-10WAG, CA-RSPNMA004,	SR49120WD	Date	January 25, 2008	January 18, 2008
S/N	32	1	Temperature	25 deg.C	25 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)		Humidity	30%	33 %
Mode	11a, Tx 5805MHz, Ant:A, 54Mbps,		Engineer	Kenichi Adachi	Kenichi Adachi
EUT-Position	H: Z-axis, V:Z-axis			(No3, 1G-10GHz)	(No1, 10G-18GHz)
Ant.-Position	Nornal-axis				

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2884.2	73.1	71.4	28.1	31.4	3.3	0.0	73.1	71.4	73.9	0.8	2.5
2	3843.3	47.3	52.0	29.5	30.9	3.6	0.0	49.5	54.2	73.9	24.4	19.7
3	5440.0	45.0	54.8	32.1	30.7	4.1	0.0	50.5	60.3	73.9	23.4	13.6
4	7686.7	46.0	45.4	36.4	31.3	4.9	0.0	56.0	55.4	73.9	17.9	18.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
5	11610.0	62.3	63.0	40.0	36.4	6.4	1.4	64.2	64.9	73.9	9.7	9.0

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2884.2	45.8	43.4	28.1	31.4	3.3	0.0	45.8	43.4	53.9	8.1	10.5
2	3843.3	42.8	47.5	29.5	30.9	3.6	0.0	45.0	49.7	53.9	8.9	4.2
3	5440.0	35.6	46.5	32.1	30.7	4.1	0.0	41.1	52.0	53.9	12.8	1.9
4	7686.7	41.1	37.5	36.4	31.3	4.9	0.0	51.1	47.5	53.9	2.8	6.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac												
5	11610.0	48.4	49.2	40.0	36.4	6.4	1.4	50.3	51.1	53.9	3.6	2.8

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* NS: No detect signal.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
*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.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
*used conversion formula

11a Tx, 5745MHz (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 15.407 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board			Test Distance	1m / 0.5m	
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5808U	Date	January 18, 2008,	January 31, 2008
S/N	32		1	Temperature	25 deg.C,	26deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	33%,	33%
Mode	11a, Tx 5745MHz, Ant:A, 54Mbps,			Engineer	Takumi Shimada,	Akio Hayashi
EUT-Position	H: Z-axis, V:Z-axis				(No.1, 10G-18GHz)	(No.1, 18G-40GHz)
Ant.-Position	Nornal-axis					

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

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	14362.00	57.5	59.6	41.0	35.4	7.4	1.4	62.4	64.5	-32.8	-30.7	-27.0	5.8	3.7
2	17235.00	53.2	56.4	42.4	35.2	8.5	2.1	61.5	64.7	-33.7	-30.5	-27.0	6.7	**3.5**
Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)														
3	28725.00	43.5	43.8	43.6	25.0	15.0	0.0	61.6	61.9	-33.6	-33.3	-27.0	6.6	6.3
4	34470.00	41.9	42.5	43.3	25.2	16.4	0.0	60.9	61.5	-34.3	-33.7	-27.0	7.3	6.7

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

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

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
*used conversion formula

11a Tx, 5745MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

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

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.407 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board			Test Distance	1m / 0.5m	
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5817D	Date	January 19, 2008	Janury 31, 2008
S/N	32		1	Temperature	25 deg.C.	26deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	33%	33%
Mode	11a, Tx 5745MHz, Ant:A, 54Mbps,			Engineer	Takumi Shimada	Akio Hayashi
EUT-Position	H: Z-axis, V:Z-axis				(No.1, 10G-18GHz)	(No.1, 18G-40GHz)
Ant.-Position	Nornal-axis					

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

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	14357.54	61.8	62.0	41.0	35.4	7.4	1.4	66.7	66.9	-28.5	-28.3	-27.0	1.5	**1.3**
2	17235.00	53.9	57.3	42.4	35.2	8.5	2.1	62.2	65.6	-33.0	-29.6	-27.0	6.0	2.6
Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)														
3	28725.00	40.3	40.9	43.6	25.0	15.0	0.0	58.4	59.0	-36.8	-36.2	-27.0	9.8	9.2
4	34470.00	42.8	43.7	43.3	25.2	16.4	0.0	61.8	62.7	-33.4	-32.5	-27.0	6.4	5.5

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

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

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
*used conversion formula

11a Tx, 5745MHz (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 15.407 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board		Test Distance	1m / 0.5m	
Model	SX-10WAG, CA-RSPNMA004,	SR49120WDA	Date	January 18, 2008	January 27, 2008
S/N	32	1	Temperature	25 deg.C	24 deg.C
Power	DC 3.3V (PC input AC120V / 60Hz)		Humidity	33%	31%
Mode	11a, Tx 5745MHz, Ant:A, 54Mbps,		Engineer	Kenichi Adachi	Norihisa Hahsimoto
EUT-Position	H: Z-axis, V:Z-axis			(No3, 1G-18GHz)	(No1, 18G-40GHz)
Ant.-Position	Nornal-axis				

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

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	14362.00	62.2	62.0	41.0	35.4	7.4	1.4	67.1	66.9	-28.1	-28.3	-27.0	1.1	1.3
2	17235.00	58.4	59.2	42.4	35.2	8.5	2.1	66.7	67.5	-28.5	-27.7	-27.0	1.5	**0.7**
Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)														
3	28725.00	43.0	42.8	43.1	25.1	15.0	0.0	60.5	60.3	-34.7	-34.9	-27.0	7.7	7.9
4	34470.00	44.6	45.2	43.4	25.4	16.5	0.0	63.6	64.2	-31.7	-31.1	-27.0	4.7	4.1

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

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

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
*used conversion formula

11a Tx, 5765MHz (SX-10WAG + CA-RSPNMA004 + HG5808U)

(Reference)

UL Japan, Inc.

Head Office EMC Lab. No. 3 Semi Anechoic Chamber

Company	silex technology, Inc.		Regulation	FCC Part15 Subpart E 15.407 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board		Test Distance	1m	
Model	SX-10WAG, CA-RSPNMA004,	HG5808U	Date	January 15, 2008	
S/N	32	1	Temperature	23 deg.C.	
Power	DC 3.3V (PC input AC120V / 60Hz)		Humidity	34 %	
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,		Engineer	Norihisa Hashimoto	
EUT-Position	H: Z-axis, V:Z-axis				
Ant.-Position	Nornal-axis				

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

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor	Amp. Gain	Cable Loss	ATT or Filter Loss	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER	[dB/m]	[dB]	[dB]	[dB]	HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	14409.00	53.7	55.8	40.9	31.2	7.6	1.4	62.9	65.0	-32.3	-30.2	-27.0	5.3	3.2
2	17295.00	53.5	55.0	42.8	31.0	8.3	2.2	66.3	67.8	-28.9	-27.4	-27.0	1.9	**0.4**

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

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
*used conversion formula

11a Tx, 5765MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + 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 15.407 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board			Test Distance	1m / 0.5m	
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5808U	Date	January 16, 2008,	January 31, 2008,
S/N	32		1	Temperature	24 deg.C.,	26deg.C.,
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	36%,	33%,
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,			Engineer	Takumi Shimada,	Akio Hayashi,
EUT-Position	H: Z-axis, V:Z-axis				(No.3, 1G-18GHz)	(No.1, 18G-40GHz)
Ant.-Position	Nornal-axis					

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

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	14409.00	53.9	55.1	40.9	31.2	7.6	1.4	63.1	64.3	-32.1	-30.9	-27.0	5.1	3.9
2	17295.00	53.2	55.1	42.8	31.0	8.3	2.2	66.0	67.9	-29.2	-27.3	-27.0	2.2	**0.3**
Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)														
3	28825.00	40.4	40.8	43.7	25.0	15.0	0.0	58.6	59.0	-36.6	-36.2	-27.0	9.6	9.2
4	34590.00	41.8	44.0	43.2	25.1	16.5	0.0	60.9	63.1	-34.3	-32.1	-27.0	7.3	5.1

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

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
*used conversion formula

11a Tx, 5765MHz (SX-10WAG + CA4NMRSF020 + HG5808U)

(Reference)

UL Japan, Inc.

Head Office EMC Lab. No. 3 Semi Anechoic Chamber

Company	silex technology, Inc.		Regulation	FCC Part15 Subpart E 15.407 / RSS-210 A9.3
Equipment	MiniPCI Wireless LAN board		Test Distance	1m
Model	SX-10WAG, CA4NMRSF020,	HG5808U	Date	January 15, 2008
S/N	32	1	Temperature	23 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)		Humidity	34 %
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,		Engineer	Norihisa Hashimoto
EUT-Position	H: Z-axis, V:Z-axis			
Ant.-Position	Nornal-axis			

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

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	14409.00	53.4	54.0	40.9	31.2	7.6	1.4	62.6	63.2	-32.6	-32.0	-27.0	5.6	5.0
2	17295.00	53.0	54.3	42.8	31.0	8.3	2.2	65.8	67.1	-29.4	-28.1	-27.0	2.4	**1.1**

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

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
*used conversion formula

11a Tx, 5765MHz (SX-10WAG + CA-RSPNMA004 + HG5817D)
(Reference)

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

Company	silex technology, Inc.		Regulation	FCC Part15 Subpart E 15.407 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board		Test Distance	1m	
Model	SX-10WAG, CA-RSPNMA004,	HG5817D	Date	January 10, 2008	
S/N	32	1	Temperature	22 deg.C.	
Power	DC 3.3V (PC input AC120V / 60Hz)		Humidity	35 %	
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,		Engineer	Kenichi Adachi	
EUT-Position	H: Z-axis, V:Z-axis				
Ant.-Position	Nornal-axis				

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

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	14408.90	47.6	47.1	41.1	32.5	6.7	1.1	54.5	54.0	-40.7	-41.2	-27.0	13.7	14.2
2	17295.00	53.7	55.0	42.0	32.4	7.3	1.2	62.3	63.6	-32.9	-31.6	-27.0	5.9	**4.6**

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

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
*used conversion formula

11a Tx, 5765MHz (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 15.407 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board			Test Distance	1m / 0.5m	
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5817D	Date	January 15, 2008,	January 31, 2008
S/N	32		1	Temperature	23 deg.C.,	26deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	34%,	33%
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,			Engineer	Kenichi Adachi,	Akio Hayashi
EUT-Position	H: Z-axis, V:Z-axis				(No.3, 10G-18GHz)	(No.1, 18G-40GHz)
Ant.-Position	Nornal-axis					

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

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	14409.80	53.7	54.2	40.9	31.2	7.6	1.4	62.9	63.4	-32.3	-31.8	-27.0	5.3	4.8
2	17295.00	53.0	52.9	42.8	31.0	8.3	2.2	65.8	65.7	-29.4	-29.5	-27.0	**2.4**	2.5
Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)														
3	28825.00	43.0	41.3	43.7	25.0	15.0	0.0	61.2	59.5	-34.0	-35.7	-27.0	7.0	8.7
4	34590.00	43.1	44.2	43.2	25.1	16.5	0.0	62.2	63.3	-33.0	-31.9	-27.0	6.0	4.9

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

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
*used conversion formula

11a Tx, 5765MHz (SX-10WAG + CA4NMRSF020 + HG5817D)
(Reference)

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

Company	silex technology, Inc.		Regulation	FCC Part15 Subpart E 15.407 / RSS-210 A9.3
Equipment	MiniPCI Wireless LAN board		Test Distance	1m
Model	SX-10WAG, CA4NMRSF020,	HG5817D	Date	January 10, 2008
S/N	32	1	Temperature	22 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)		Humidity	35 %
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,		Engineer	Kenichi Adachi
EUT-Position	H: Z-axis, V:Z-axis			
Ant.-Position	Nornal-axis			

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

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor	Amp. Gain	Cable Loss	ATT or Filter Loss	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER	[dB/m]	[dB]	[dB]	[dB]	HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	14404.51	50.1	50.9	41.1	32.5	6.7	1.1	57.0	57.8	-38.2	-37.4	-27.0	11.2	10.4
2	17295.00	54.4	50.6	42.0	32.4	7.3	1.2	63.0	59.2	-32.2	-36.0	-27.0	**5.2**	9.0

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

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
*used conversion formula

11a Tx, 5765MHz (SX-10WAG + CA-RSPNMA004 + SR49120WDA)

UL Japan, Inc.

Head Office EMC Lab. No. 3 Semi Anechoic Chamber

Company	silex technology, Inc.		Regulation	FCC Part15 Subpart E 15.407 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board		Test Distance	1m / 0.5m	
Model	SX-10WAG, CA-RSPNMA004,	SR49120WDA	Date	January 15, 2008	January 27, 2008
S/N	32	1	Temperature	23 deg.C.	24 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)		Humidity	34%	31%
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,		Engineer	Kenichi Adachi	Norihisa hashimoto
EUT-Position	H: Z-axis, V:Z-axis			(No.3,10G-18GHz)	(No.1,18G-40GHz)
Ant.-Position	Nornal-axis				

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

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	14408.95	53.7	54.9	40.9	31.2	7.6	1.4	62.9	64.1	-32.3	-31.1	-27.0	5.3	4.1
2	17295.00	53.5	53.8	42.8	31.0	8.3	2.2	66.3	66.6	-28.9	-28.6	-27.0	1.9	**1.6**
Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)														
3	28825.00	43.7	43.4	43.1	25.1	15.0	0.0	61.2	60.9	-34.1	-34.4	-27.0	7.1	7.4
4	34590.00	44.4	44.5	43.3	25.2	16.5	0.0	63.5	63.6	-31.7	-31.6	-27.0	4.7	4.6

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

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
*used conversion formula

11a Tx, 5765MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + SR49120WDA)
(Reference)

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

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.407 / RSS-210 A9.3
Equipment	MiniPCI Wireless LAN board			Test Distance	1m / 0.5m
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	SR49120WDA	Date	January 15, 2008
S/N	32		1	Temperature	23 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	34%
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,			Engineer	Kenichi Adachi
EUT-Position	H: Z-axis, V:Z-axis				
Ant.-Position	Nornal-axis				

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

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	14409.35	56.2	55.1	40.9	31.2	7.6	1.4	65.4	64.3	-29.8	-30.9	-27.0	2.8	3.9
2	17295.00	51.9	53.6	42.8	31.0	8.3	2.2	64.7	66.4	-30.5	-28.8	-27.0	3.5	**1.8**

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

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
*used conversion formula

11a Tx, 5765MHz (SX-10WAG + CA4NMRSF020 + SR49120WDA)
(Reference)

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

Company	silex technology, Inc.		Regulation	FCC Part15 Subpart E 15.407 / RSS-210 A9.3
Equipment	MiniPCI Wireless LAN board		Test Distance	1m / 0.5m
Model	SX-10WAG, CA4NMRSF020,	SR49120WDA	Date	January 15, 2008
S/N	32	1	Temperature	23 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)		Humidity	34%
Mode	11a, Tx 5765MHz, Ant:A, 54Mbps,		Engineer	Kenichi Adachi
EUT-Position	H: Z-axis, V:Z-axis			
Ant.-Position	Nornal-axis			

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

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	14408.96	50.5	49.2	40.9	31.2	7.6	1.4	59.7	58.4	-35.5	-36.8	-27.0	8.5	9.8
2	17295.00	52.2	52.6	42.8	31.0	8.3	2.2	65.0	65.4	-30.2	-29.8	-27.0	3.2	**2.8**

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

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
*used conversion formula

11a Tx, 5805MHz (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 15.407 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board			Test Distance	1m / 0.5m	
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5808U	Date	January 18, 2008,	January 31, 2008
S/N	32		1	Temperature	25 deg.C,	26deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	33%,	33%
Mode	11a, Tx 5805MHz, Ant:A, 54Mbps,			Engineer	Takumi Shimada,	Akio Hayashi
EUT-Position	H: Z-axis, V:Z-axis				(No.1, 10G-18GHz)	(No.1, 18G-40GHz)
Ant.-Position	Nornal-axis					

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

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1.0meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	17415.00	53.3	57.3	44.1	35.2	8.6	1.9	63.2	67.2	-32.0	-28.0	-27.0	5.0	**1.0**
2	23220.00	35.8	33.9	40.5	23.7	13.6	0.0	56.7	54.8	-38.5	-40.4	-27.0	11.5	13.4
Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)														
3	29025.00	41.7	41.1	43.7	24.9	15.0	0.0	60.0	59.4	-35.2	-35.8	-27.0	8.2	8.8
4	34830.00	42.3	45.0	43.2	25.1	16.6	0.0	61.5	64.2	-33.7	-31.0	-27.0	6.7	4.0

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

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
*used conversion formula

11a Tx, 5805MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

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

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.407 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board			Test Distance	1m / 0.5m	
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5817D	Date	January 18, 2008,	January 31, 2008
S/N	32		1	Temperature	25 deg.C,	26deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	33% ,,	33%
Mode	11a, Tx 5805MHz, Ant:A, 54Mbps,			Engineer	Takumi Shimada,	Akio Hayashi
EUT-Position	H: Z-axis, V:Z-axis				(No.1,10G-18GHz)	(No.1, 18G-40GHz)
Ant.-Position	Nornal-axis					

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

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1.0meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	17415.00	54.0	56.7	44.1	35.2	8.6	1.9	63.9	66.6	-31.3	-28.6	-27.0	4.3	**1.6**
2	23220.00	35.0	35.2	40.5	23.7	13.6	0.0	55.9	56.1	-39.3	-39.1	-27.0	12.3	12.1
Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)														
3	29025.00	41.0	41.7	43.7	24.9	15.0	0.0	59.3	60.0	-35.9	-35.2	-27.0	8.9	8.2
4	34830.00	45.3	43.0	43.2	25.1	16.6	0.0	64.5	62.2	-30.7	-33.0	-27.0	3.7	6.0

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

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz:Outside of the restricted band)
*used conversion formula

11a Tx, 5805MHz (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 15.407 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board			Test Distance	1m / 0.5m	
Model	SX-10WAG,	CA-RSPNMA004,	SR49120WDA	Date	January 18, 2008	January 27, 2008
S/N	32		1	Temperature	25 deg.C	24 deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	33%	31 %
Mode	11a, Tx 5805MHz, Ant:A, 54Mbps,			Engineer	Kenichi Adachi	Norihisa Hashimoto
EUT-Position	H: Z-axis, V:Z-axis				(No.1,10G-18GHz)	(No.1, 18G-40GHz)
Ant.-Position	Nornal-axis					

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

No.	Freq. [MHz]	S/A Reading [dBuV]		Antenna Factor [dB/m]	Amp. Gain [dB]	Cable Loss [dB]	ATT or Filter Loss [dB]	Electric Field Strength [dBuV/m]		Result (EIRP) [dBm]		Lmit [dBm]	Margin [dB]	
		HOR	VER					HOR	VER	HOR	VER		HOR	VER
Test distance 1meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)														
1	17415.00	56.5	55.3	44.1	35.2	8.6	1.9	66.4	65.2	-28.8	-30.0	-27.0	**1.8**	3.0
2	23220.00	42.3	42.5	41.0	23.7	13.6	0.0	63.7	63.9	-31.5	-31.3	-27.0	4.5	4.3
Test distance 0.5meters, Electric Field Strength =Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)														
3	29025.00	43.6	43.5	43.2	24.9	14.9	0.0	61.3	61.2	-33.9	-34.0	-27.0	6.9	7.0
4	34830.00	44.8	44.3	43.3	25.1	16.5	0.0	64.0	63.5	-31.2	-31.7	-27.0	4.2	4.7

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

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

* Except for the above table : All other spurious emissions were less than 20dB for the limit.
* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.
* NS: No detect signal.
*The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz: Receiver)

11a Rx, 5765MHz (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 15.209 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board			Test Distance	3m / 1m / 0.5m	
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5808U	Date	January 18, 2008	January 31, 2008
S/N	32		1	Temperature	25 deg.C.,	26deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	33%,	33%
Mode	11a, Rx 5765MHz, Ant:A			Engineer	Takumi Shimada,	Akio Hayashi
EUT-Position	H: Z-axis, V:Z-axis				(No.1, 1G-10GHz)	(No.1, 18G-40GHz)
Ant.-Position	Nornal-axis					

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2861.5	57.1	52.7	28.1	36.5	2.9	0.0	51.6	47.2	73.9	22.3	26.7
2	3843.3	50.5	54.5	29.5	36.2	3.3	0.0	47.1	51.1	73.9	26.8	22.8
3	5765.0	44.5	45.5	32.1	36.2	4.2	0.0	44.6	45.6	73.9	29.3	28.3
4	7686.7	48.1	48.0	36.4	36.5	4.8	0.0	52.8	52.7	73.9	21.1	21.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)												
5	11530.0	46.0	45.7	40.1	36.4	5.9	0.0	46.1	45.8	73.9	27.8	28.1
6	17295.0	45.4	46.0	43.0	35.2	7.8	0.0	51.5	52.1	73.9	22.4	21.8
7	23060.0	32.3	33.9	40.6	23.6	13.5	0.0	53.3	54.9	73.9	20.6	19.0
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)												
8	28825.0	41.2	41.7	43.7	25.0	14.9	0.0	59.3	59.8	73.9	14.6	14.1

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2861.5	54.8	48.7	28.1	36.5	2.9	0.0	49.3	43.2	53.9	4.6	10.7
2	3843.3	44.5	51.3	29.5	36.2	3.3	0.0	41.1	47.9	53.9	12.8	6.0
3	5765.0	31.5	31.4	32.1	36.2	4.2	0.0	31.6	31.5	53.9	22.3	22.4
4	7686.7	37.4	34.9	36.4	36.5	4.8	0.0	42.1	39.6	53.9	11.8	14.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)												
5	11530.0	32.5	32.6	40.1	36.4	5.9	0.0	32.6	32.7	53.9	21.3	21.2
6	17295.0	32.0	32.1	43.0	35.2	7.8	0.0	38.1	38.2	53.9	15.8	15.7
7	23060.0	22.6	22.6	40.6	23.6	13.5	0.0	43.6	43.6	53.9	10.3	10.3
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)												
8	28825.0	31.1	31.5	43.7	25.0	14.9	0.0	49.2	49.6	53.9	4.7	4.3

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB
* Except for the above table : All other spurious emissions were less than 20dB for the limit.

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

Radiated Spurious Emission (above 1GHz: Receiver)

11a Rx, 5765MHz (SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

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

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.209 / RSS-210 A9.3		
Equipment	MiniPCI Wireless LAN board			Test Distance	3m / 1m		
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5817D	Date	January 18, 2008,	January 25, 2008,	January 31, 2008
S/N	32		1	Temperature	25 deg.C.,	25 deg.C.,	26deg.C.
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	33%,	30 %,	33%
Mode	11a, Rx 5765MHz, Ant:A			Engineer	Takumi Shimada,	Kenichi Adachi,	Akio Hayashi
EUT-Position	H: Z-axis, V:Z-axis				(No.1,10G-18GHz)	(No.3, 1G-10GHz)	(No.1, 18G-40GHz)
Ant.-Position	Nornal-axis						

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2674.9	48.8	49.7	27.8	31.4	3.2	0.0	48.4	49.3	73.9	25.5	24.6
2	3843.3	45.0	48.8	29.5	30.9	3.6	0.0	47.2	51.0	73.9	26.7	22.9
3	5765.0	39.5	39.4	32.4	30.6	4.2	0.0	45.5	45.4	73.9	28.4	28.5
4	7686.7	44.4	43.6	36.4	31.3	4.9	0.0	54.4	53.6	73.9	19.5	20.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)												
5	11530.0	45.4	45.9	40.1	36.4	5.9	0.0	45.5	46.0	73.9	28.4	27.9
6	17295.0	45.6	45.2	43.0	35.2	7.8	0.0	51.7	51.3	73.9	22.2	22.6
7	23060.0	33.8	34.5	40.6	23.6	13.5	0.0	54.8	55.5	73.9	19.1	18.4
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)												
8	28825.0	43.6	42.2	43.7	25.0	14.9	0.0	61.7	60.3	73.9	12.2	13.6

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2674.9	45.1	46.3	27.8	31.4	3.2	0.0	44.7	45.9	53.9	9.2	8.0
2	3843.3	38.2	42.4	29.5	30.9	3.6	0.0	40.4	44.6	53.9	13.5	9.3
3	5765.0	28.1	28.0	32.4	30.6	4.2	0.0	34.1	34.0	53.9	19.8	19.9
4	7686.7	37.3	34.2	36.4	31.3	4.9	0.0	47.3	44.2	53.9	6.6	9.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)												
5	11530.0	32.5	32.5	40.1	36.4	5.9	0.0	32.6	32.6	53.9	21.3	21.3
6	17295.0	32.0	32.1	43.0	35.2	7.8	0.0	38.1	38.2	53.9	15.8	15.7
7	23060.0	22.6	22.6	40.6	23.6	13.5	0.0	43.6	43.6	53.9	10.3	10.3
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)												
8	28825.0	31.0	30.4	43.7	25.0	14.9	0.0	49.1	48.5	53.9	4.8	5.4

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB
* Except for the above table : All other spurious emissions were less than 20dB for the limit.

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

Radiated Spurious Emission (above 1GHz: Receiver)

11a Rx, 5765MHz (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 15.209 / RSS-210 A9.3		
Equipment	MiniPCI Wireless LAN board			Test Distance	3m / 1m		
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 5765MHz, Ant:A			Engineer	Kenichi Adachi	Kenichi Adachi	Norihisa hashimoto
EUT-Position	H: Z-axis, V:Z-axis						
Ant.-Position	Nornal-axis						

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2861.6	50.6	53.6	28.1	31.4	3.3	0.0	50.6	53.6	73.9	23.3	20.3
2	3843.3	46.2	47.6	29.5	30.9	3.6	0.0	48.4	49.8	73.9	25.5	24.1
3	5765.0	39.5	39.6	32.4	30.6	4.2	0.0	45.5	45.6	73.9	28.4	28.3
4	7686.7	44.4	43.5	36.4	31.3	4.9	0.0	54.4	53.5	73.9	19.5	20.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)												
5	11530.0	45.1	46.3	40.1	36.4	5.9	0.0	45.2	46.4	73.9	28.7	27.5
6	17295.0	45.4	46.2	43.0	35.2	7.8	0.0	51.5	52.3	73.9	22.4	21.6
7	23060.0	43.5	43.4	41.0	23.6	13.5	0.0	64.9	64.8	73.9	9.0	9.1
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)												
8	28825.0	43.3	43.0	43.1	25.0	14.9	0.0	60.8	60.5	73.9	13.1	13.4

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

No.	Freq.	Reading		Ant.	Amp.	Cable	Atten. or	Result		Limit	Margin	
		HOR	VER	Factor	Gain	Loss	Filter	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter)												
1	2861.6	47.8	49.2	28.1	31.4	3.3	0.0	47.8	49.2	53.9	6.1	4.7
2	3843.3	40.8	44.0	29.5	30.9	3.6	0.0	43.0	46.2	53.9	10.9	7.7
3	5765.0	28.1	28.2	32.4	30.6	4.2	0.0	34.1	34.2	53.9	19.8	19.7
4	7686.7	36.9	33.7	36.4	31.3	4.9	0.0	46.9	43.7	53.9	7.0	10.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(1m)												
5	11530.0	32.5	32.5	40.1	36.4	5.9	0.0	32.6	32.6	53.9	21.3	21.3
6	17295.0	32.4	32.4	43.0	35.2	7.8	0.0	38.5	38.5	53.9	15.4	15.4
7	23060.0	29.3	29.3	41.0	23.6	13.5	0.0	50.7	50.7	53.9	3.2	3.2
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Attenuator (or Filter) - Dfac(0.5m)												
8	28825.0	29.8	29.9	43.1	25.0	14.9	0.0	47.3	47.4	53.9	6.6	6.5

Test Distance 1.0m : Distance Factor(Dfac(1m)) = 20log(3/1.0) = 9.5 dB
Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.5 dB
* Except for the above table : All other spurious emissions were less than 20dB for the limit.

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

Radiated emission Band Edge compliance

(SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5808U)

UL Japan, Inc.

Head Office EMC Lab. No. 3 Semi Anechoic Chamber

Company	silex technology, Inc.	Regulation	FCC Part15 Subpart E 15.407 / RSS-210 A9.3
Equipment	MiniPCI Wireless LAN board	Test Distance	3m
Model	SX-10WAG, CA-RSPNMA010, HG5808U, CA-NMNFA004,	Date	January 16, 2008,
S/N	32 1	Temperature	24 deg.C,
Power	DC 3.3V (PC input AC120V / 60Hz)	Humidity	36%,
Mode	11a, Tx 5745MHz / 5805MHz, Ant:A, 54Mbps,	Engineer	Takumi Shimada,
EUT-Position	H: Z-axis, V:Z-axis		
Ant.-Position	Nornal-axis		

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

No.	FREQ	S/A READING HOR	S/A READING VER	ANT Factor	AMP GAIN	CABLE LOSS	Band-Pass Filter	RESULT HOR	RESULT VER
	[MHz]	[dBuV/m]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass									
1	5715.0	47.7	55.2	32.3	30.6	4.2	0.0	53.6	61.1
2	5725.0	54.8	65.2	32.4	30.6	4.2	0.0	60.8	71.2
3	5825.0	48.7	65.4	32.5	30.6	4.2	0.0	54.8	71.5
4	5835.0	39.3	52.9	32.5	30.6	4.2	0.0	45.4	59.0

CALCULATION RESULT = S/A Reading [dBuV] + ANT(Antenna) Factor - AMP(PreAmplifier) GAIN + CABLE LOSS High-Pass Filter Loss

Substitution measurement

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m] HOR	Electric Field Strength (After Factor Calculation) [dBuV/m] VER	SG Reading [dBm] HOR	SG Reading [dBm] VER	Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (ERP) [dBm] HOR	RESULT (ERP) [dBm] VER	LIMIT [dBm] (ERP)	MARGIN [dB] HOR	MARGIN [dB] VER	Mode	A/C	Remarks
1	5715.00	53.6	61.1	-48.5	-41.5	6.8	13.3	0.0	-44.1	-37.1	-27.0	17.1	10.1	Operating	No3	
2	5725.00	60.8	71.2	-41.3	-31.4	6.8	13.4	0.0	-36.9	-27.0	-17.0	19.9	10.0	Operating	No3	
3	5825.00	54.8	71.5	-47.2	-30.9	6.9	13.4	0.0	-42.8	-26.6	-17.0	25.8	**9.6**	Operating	No3	
4	5835.00	45.4	59.0	-56.6	-43.4	6.9	13.4	0.0	-52.2	-39.0	-27.0	25.2	12.0	Operating	No3	

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperriodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.
With the result above, the effective radiated power was calculated on the basis of the reference value
- for the calibration data on the substitution measurement.

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

Detector : Below 1GHz : T/R QP(BW:120kHz), Above 1GHz : S/A PK(RBW/VBW:1MHz)

Radiated emission Band Edge compliance

(SX-10WAG + CA-RSPNMA010 + CA-NMNFA004 + HG5817D)

UL Japan, Inc.

Head Office EMC Lab. No. 1 Semi Anechoic Chamber

Company	silex technology, Inc.			Regulation	FCC Part15 Subpart E 15.407 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board			Test Distance	3m	
Model	SX-10WAG,	CA-RSPNMA010, CA-NMNFA004,	HG5817D	Date	January 18, 2008,	January 17, 2008
S/N	32		1	Temperature	25 deg.C,	25 deg.C
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	33%,	33%
Mode	11a, Tx 5745MHz / 5805MHz, Ant:A, 54Mbps,			Engineer	Tomotaka Sasagawa, (No.3,Tx5745MHz)	Tomotaka Sasagawa (No1, Tx5805MHz)
EUT-Position	H: Z-axis, V:Z-axis					
Ant.-Position	Nornal-axis					

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

No.	FREQ	S/A READING HOR	S/A READING VER	ANT Factor	AMP GAIN	CABLE LOSS	Band-Pass Filter	RESULT HOR	RESULT VER
	[MHz]	[dBuV/m]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass									
1	5715.0	48.6	65.1	32.3	30.6	4.2	0.0	54.5	71.0
2	5725.0	56.8	74.4	32.4	30.6	4.2	0.0	62.8	80.4
3	5825.0	56.0	74.4	32.5	30.6	4.2	0.0	62.1	80.5
4	5835.0	42.0	61.4	32.5	30.6	4.2	0.0	48.1	67.5

CALCULATION RESULT = S/A Reading [dBuV] + ANT(Antenna) Factor - AMP(PreAmplifier) GAIN + CABLE LOSS High-Pass Filter Loss

Substitution measurement

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m] HOR	Electric Field Strength (After Factor Calculation) [dBuV/m] VER	SG Reading [dBm] HOR	SG Reading [dBm] VER	Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (ERP) [dBm] HOR	RESULT (ERP) [dBm] VER	LIMIT [dBm] (ERP)	MARGIN [dB] HOR	MARGIN [dB] VER	Mode	A/C	Remarks
1	5715.00	54.5	71.0	-47.6	-31.6	6.8	13.3	0.0	-43.2	-27.2	-27.0	16.2	**0.2**	Operating	No3	
2	5725.00	62.8	80.4	-39.3	-22.2	6.8	13.4	0.0	-34.9	-17.8	-17.0	17.9	0.8	Operating	No3	
3	5825.00	62.1	80.5	-39.9	-21.9	6.9	13.4	0.0	-35.5	-17.6	-17.0	18.5	0.6	Operating	No3	
4	5835.00	48.1	67.5	-53.9	-34.9	6.9	13.4	0.0	-49.5	-30.5	-27.0	22.5	3.5	Operating	No3	

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperriodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value
- for the calibration data on the substitution measurement.

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

Detector : Below 1GHz : T/R QP(BW:120kHz), Above 1GHz : S/A PK(RBW/VBW:1MHz)

Radiated emission Band Edge compliance

(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 15.407 / RSS-210 A9.3	
Equipment	MiniPCI Wireless LAN board			Test Distance	3m	
Model	SX-10WAG,	CA-RSPNMA004,	SR49120WDA	Date	January 18, 2008	January 25, 2008
S/N	32		1	Temperature	25 deg.C	25 deg.C
Power	DC 3.3V (PC input AC120V / 60Hz)			Humidity	33%	30%
Mode	11a, Tx 5745MHz / 5805MHz, Ant:A, 54Mbps,			Engineer	Kenichi Adachi	Kenichi Adachi
EUT-Position	H: Z-axis, V:Z-axis				(No.3,Tx 5745MHz)	(No3, Tx 5805MHz)
Ant.-Position	Nornal-axis					

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

No.	FREQ	S/A READING HOR	S/A READING VER	ANT Factor	AMP GAIN	CABLE LOSS	Band-Pass Filter	RESULT HOR	RESULT VER
	[MHz]	[dBuV/m]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass									
1	5715.0	52.9	64.9	32.3	30.6	4.2	0.0	58.8	70.8
2	5725.0	64.2	74.6	32.4	30.6	4.2	0.0	70.2	80.6
3	5825.0	53.9	72.9	32.5	30.6	4.2	0.0	60.0	79.0
4	5835.0	40.7	61.7	32.5	30.6	4.2	0.0	46.8	67.8

CALCULATION RESULT = S/A Reading [dBuV] + ANT(Antenna) Factor - AMP(PreAmplifier) GAIN + CABLE LOSS High-Pass Filter Loss

Substitution measurement

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m] HOR	Electric Field Strength (After Factor Calculation) [dBuV/m] VER	SG Reading [dBm] HOR	SG Reading [dBm] VER	Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (ERP) [dBm] HOR	RESULT (ERP) [dBm] VER	LIMIT [dBm] (ERP)	MARGIN [dB] HOR	MARGIN [dB] VER	Mode	A/C	Remarks
1	5715.00	58.8	70.8	-43.3	-31.8	6.8	13.3	0.0	-38.9	-27.4	-27.0	11.9	**0.4**	Operating	No3	
2	5725.00	70.2	80.6	-31.9	-22.0	6.8	13.4	0.0	-27.5	-17.6	-17.0	10.5	0.6	Operating	No3	
3	5825.00	60.0	79.0	-42.0	-23.4	6.9	13.4	0.0	-37.6	-19.1	-17.0	20.6	2.1	Operating	No3	
4	5835.00	46.8	67.8	-55.2	-34.6	6.9	13.4	0.0	-50.8	-30.2	-27.0	23.8	3.2	Operating	No3	

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperriodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value
- for the calibration data on the substitution measurement.

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

Detector : Below 1GHz : T/R QP(BW:120kHz), Above 1GHz : S/A PK(RBW/VBW:1MHz)

APPENDIX 3:Test instruments

EMI test equipment (1/2)

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
MSA-05	Spectrum Analyzer	Advantest	R3273	RE / CE	2007/06/01 * 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
MCC-79	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2007/12/26 * 12
MHF-16	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCA	RE	2007/12/11 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/08/16 * 12
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE / CE	-
MTA-25	Terminator	Weinschel	M1459A	RE	2007/12/20 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	RE / CE	2008/01/10 * 12
MJM-07	Measure	PROMART	SEN1955	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
MCC-78	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2007/12/26 * 12
MHF-22	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCB	RE	2008/01/07 * 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
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

EMI test equipment (2/2)

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MOS-01	Digital Humidity Indicator	N.T	NT-1800	RE	2007/11/12 * 12
MJM-01	Measure	KDS	ES19-55	RE	-
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-04	Power Supply	Agilent	87421A	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-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
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2007/11/13 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2007/10/21 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2007/10/21 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE	2007/11/12 * 12
MJM-05	Measure	PROMART	SEN1955	RE	-
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2007/02/22 * 12
MTR-07	Test Receiver	Rohde & Schwarz	ESCI	CE	2007/09/14 * 12
MCC-50	Coaxial cable	UL Japan	-	CE	2007/03/06 * 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