

APPENDIX 2: Data of EMI test

Conducted Emission 11b Tx Lch(2412MHz) 11Mbps, Used Antenna for Tx: Antenna 1

DATA OF CONDUCTED EMISSION TEST

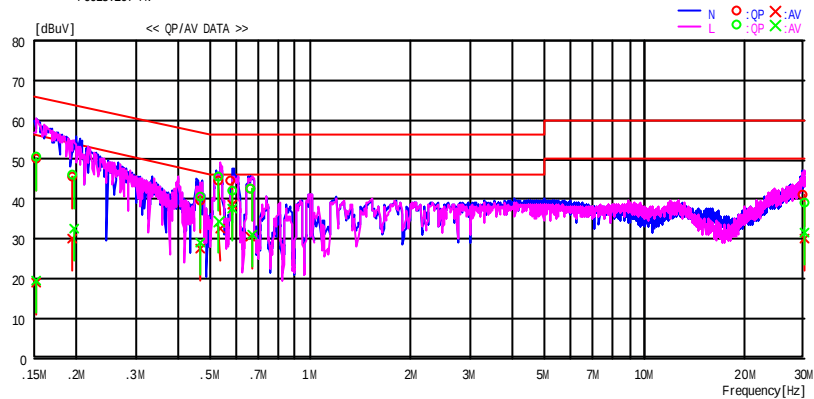
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN Board
Model No. : SX-10WAN
Serial No. : 008092011314

Report No. : 28IE0116-HO-02
Power : DC3.3V (PC Input AC120V/60Hz)
Temp./Humi. : 24 deg.C. / 67%
Operator : Satofumi Matsuyana

Mode / Remarks : Tx 2412MHz / 11b / Ant. 1

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.15182	50.1	19.1	0.3	50.4	19.4	65.9	55.9	15.5	36.5	L	
0.15224	49.9	18.9	0.3	50.2	19.2	65.9	55.9	15.7	36.7	N	
0.19431	45.2	29.9	0.3	45.5	30.2	63.9	53.9	18.4	23.7	N	
0.19630	45.6	32.3	0.3	45.9	32.6	63.8	53.8	17.9	21.2	L	
0.46791	40.2	28.7	0.3	40.5	29.0	56.6	46.6	16.1	17.6	L	
0.46867	39.3	27.1	0.3	39.6	27.4	56.5	46.5	16.9	19.1	N	
0.53344	45.0	34.1	0.3	45.3	34.4	56.0	46.0	10.7	11.6	L	
0.53463	44.0	32.3	0.3	44.3	32.6	56.0	46.0	11.7	13.4	N	
0.58216	44.1	38.1	0.3	44.4	38.4	56.0	46.0	11.6	7.6	N	
0.58496	41.8	37.3	0.3	42.1	37.6	56.0	46.0	13.9	8.4	L	
0.66621	42.3	30.2	0.3	42.6	30.5	56.0	46.0	13.4	15.5	N	
0.66676	42.4	30.6	0.3	42.7	30.9	56.0	46.0	13.3	15.1	L	
29.92976	38.9	28.3	2.0	40.9	30.3	60.0	50.0	19.1	19.7	N	
29.99536	37.1	29.5	2.0	39.1	31.5	60.0	50.0	20.9	18.5	L	

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

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

Conducted Emission
11b Tx Mch(2437MHz) 11Mbps, Used Antenna for Tx: Antenna 1

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN Board
Model No. : SX-10WAN
Serial No. : 008092011314

Report No. : 28IE0116-HO-02
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 24 deg.C. / 67%
Operator : Satofumi Matsuyama

Mode / Remarks : Tx 2437MHz / 11b / Ant. 1

LIMIT : FCC15.207 QP
FCC15.207 AV

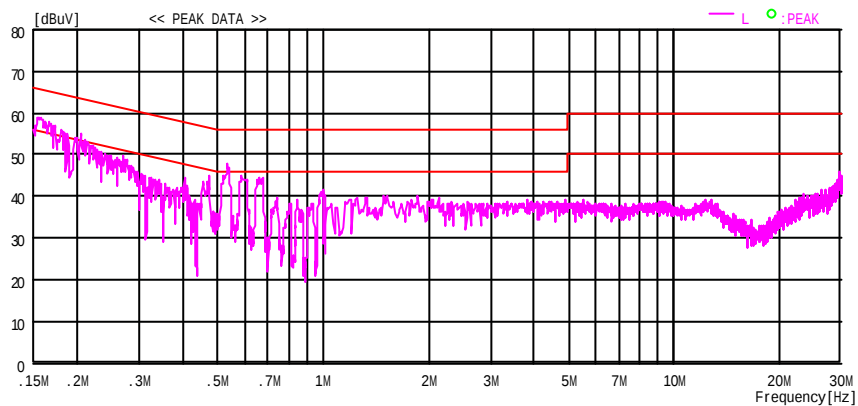
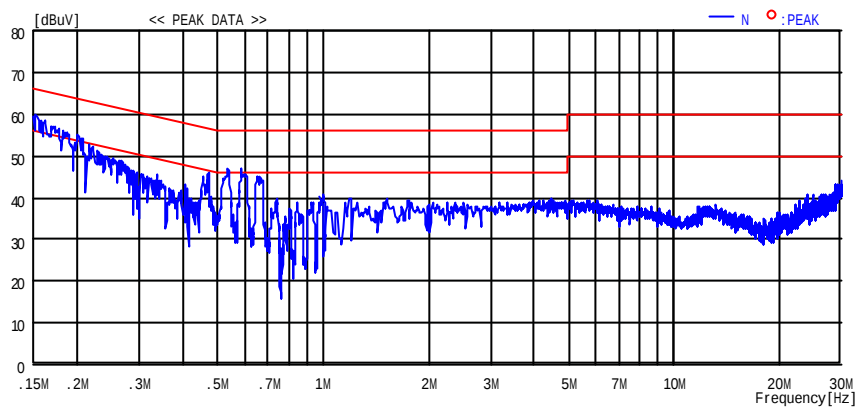


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11b Tx Hch(2462MHz) 11Mbps, Used Antenna for Tx: Antenna 1

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN Board
Model No. : SX-10WAN
Serial No. : 008092011314

Report No. : 28IE0116-HO-02
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 24 deg.C. / 67%
Operator : Satofumi Matsuyama

Mode / Remarks : Tx 2462MHz / 11b / Ant. 1

LIMIT : FCC15.207 QP
FCC15.207 AV

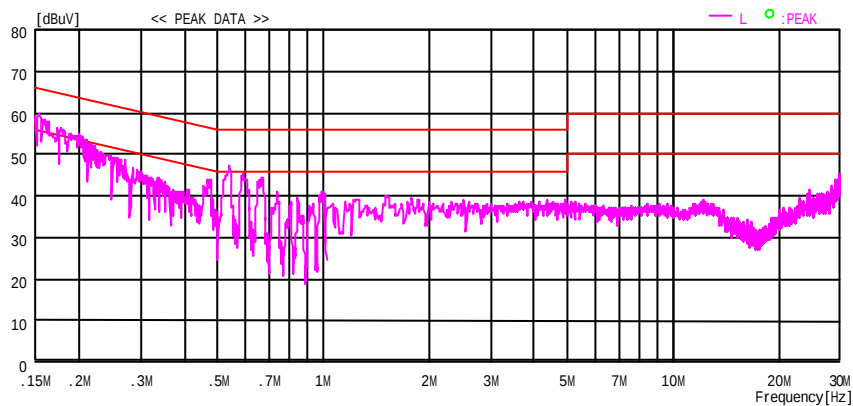
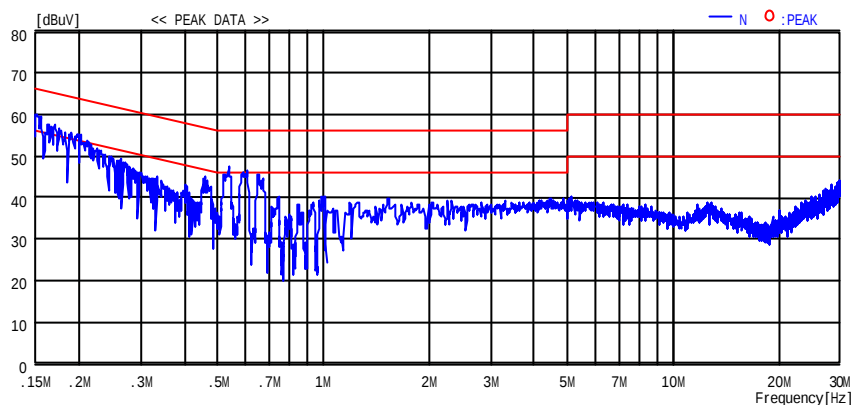


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11g Tx Lch(2412MHz) 54Mbps, Used Antenna for Tx: Antenna 1

DATA OF CONDUCTED EMISSION TEST

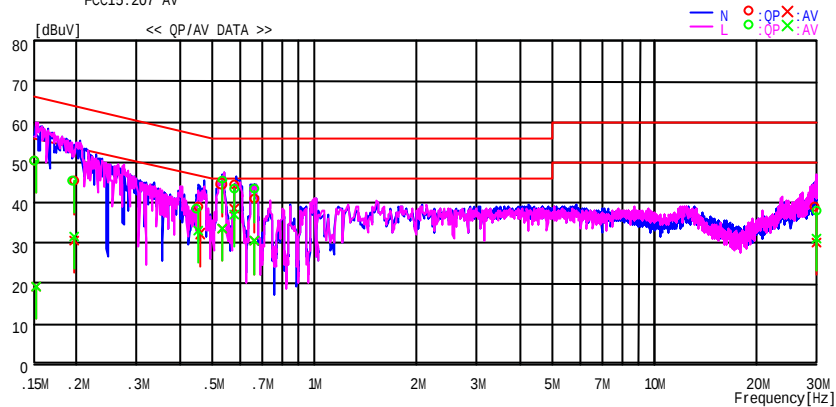
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN Board
Model No. : SX-10WAN
Serial No. : 008092011314

Report No. : 28IE0116-HO-02
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 24 deg.C. / 67%
Operator : Satofumi Matsuyama

Mode / Remarks : Tx 2412MHz / 11g / Ant. 1

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr Factor	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.15128	50.1	19.1	0.3	50.4	19.4	66.9	55.9	15.5	36.5	N	
0.19608	44.9	30.3	0.3	45.2	30.6	63.8	53.8	18.6	23.2	N	
0.45777	38.3	32.1	0.3	38.6	32.4	56.7	46.7	18.1	14.3	N	
0.53306	44.2	33.5	0.3	44.5	33.8	56.0	46.0	11.5	12.2	N	
0.58274	43.9	38.2	0.3	44.2	38.5	56.0	46.0	11.8	7.5	N	
0.66366	40.6	30.1	0.3	40.9	30.4	56.0	46.0	15.1	15.6	N	
29.75890	36.6	28.2	2.0	38.6	30.2	60.0	50.0	21.4	19.8	N	
0.15075	50.1	19.1	0.3	50.4	19.4	66.0	56.0	15.6	36.6	L	
0.19544	45.1	31.3	0.3	45.4	31.6	63.8	53.8	18.4	22.2	L	
0.45324	38.1	32.9	0.3	38.4	33.2	56.8	46.8	18.4	13.6	L	
0.53402	45.2	33.4	0.3	45.5	33.7	56.0	46.0	10.5	12.3	L	
0.58158	43.1	36.8	0.3	43.4	37.1	56.0	46.0	12.6	8.9	L	
0.66686	42.9	30.1	0.3	43.2	30.4	56.0	46.0	12.8	15.6	L	
29.97960	35.7	29.1	2.0	37.7	31.1	60.0	50.0	22.3	18.9	L	

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

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Conducted Emission
11g Tx Mch(2437MHz) 54Mbps, Used Antenna for Tx: Antenna 1

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN Board
Model No. : SX-10WAN
Serial No. : 008092011314

Report No. : 28IE0116-HO-02
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 24 deg.C. / 67%
Operator : Satofumi Matsuyama

Mode / Remarks : Tx 2437MHz / 11g / Ant. 1

LIMIT : FCC15.207 QP
FCC15.207 AV

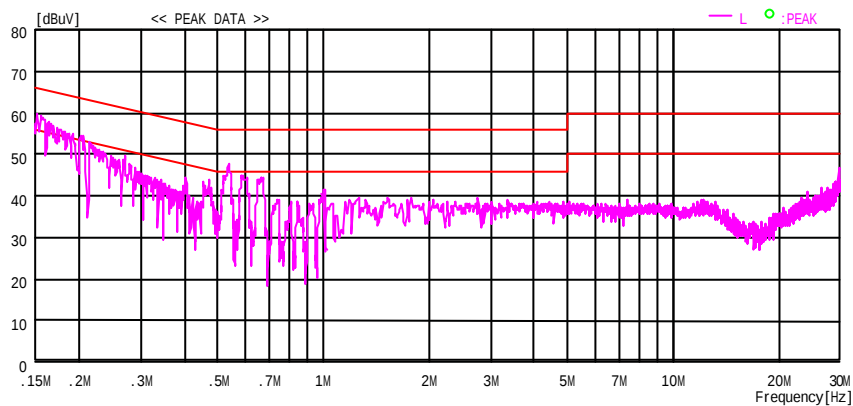
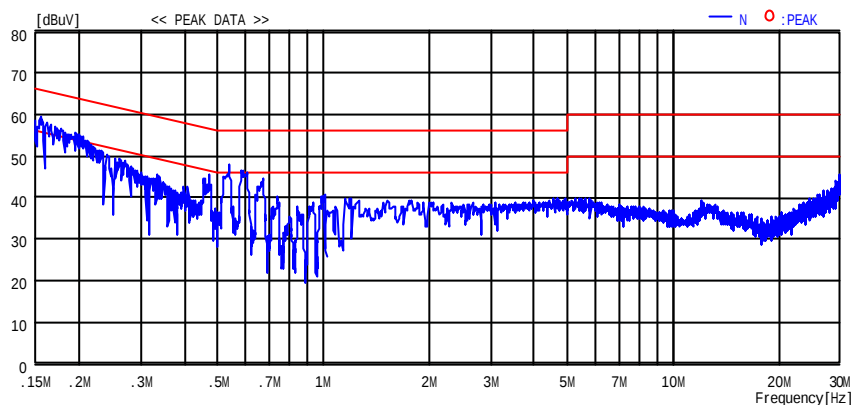


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C.F[dB](L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11g Tx Hch(2462MHz) 54Mbps, Used Antenna for Tx: Antenna 1

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

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Power : DC3.3V (PC input AC120V/60Hz)
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Operator : Satofumi Matsuyama

Mode / Remarks : Tx 2462MHz / 11g / Ant. 1

LIMIT : FCC15.207 QP
FCC15.207 AV

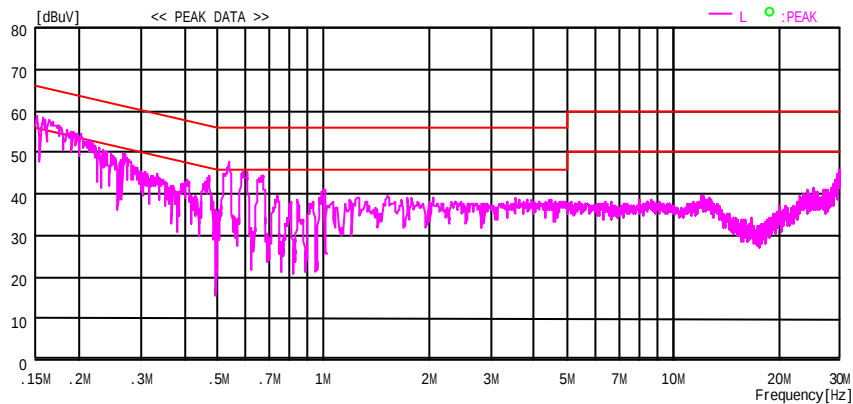
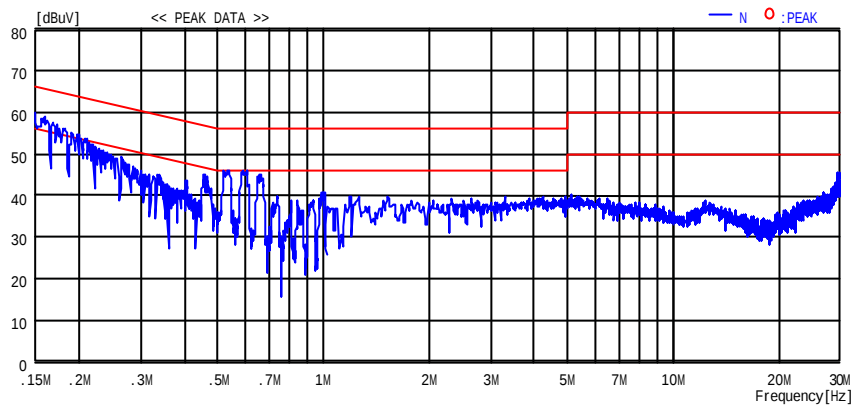


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11b/g Rx Mch(2437MHz), Used Antenna for Rx: Antenna 1

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN Board
Model No. : SX-10WAN
Serial No. : 008092011314

Report No. : 28IE0116-HO-02
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 24 deg.C. / 67%
Operator : Satofumi Matsuyama

Mode / Remarks : Rx 2437MHz / 11bg / Ant. 1

LIMIT : FCC15.207 QP
FCC15.207 AV

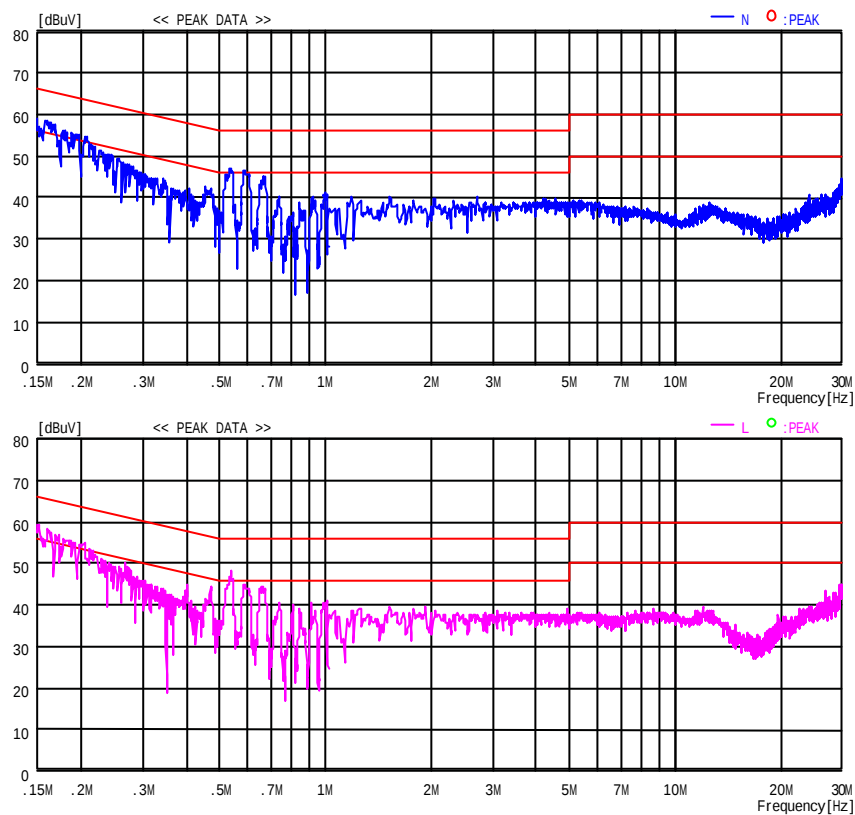


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11n(20HT) Tx Lch(2412MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

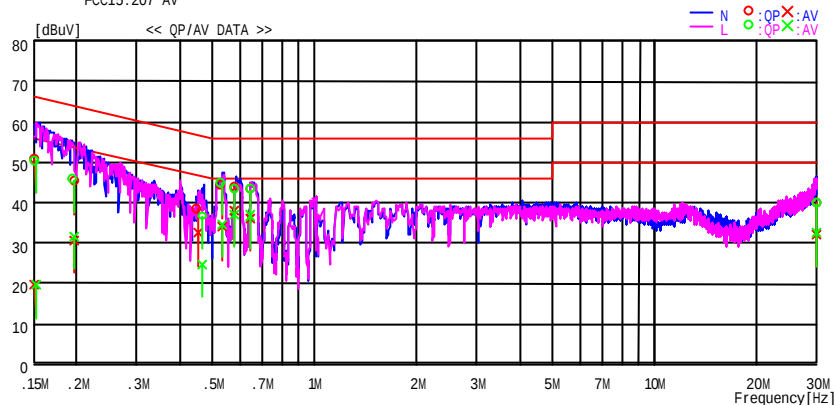
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company : silex technology, Inc. Report No. : 28IE0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (PC input AC120V/60Hz)
Model No. : SX-10WAN Temp./Humi. : 24 deg.C. / 67%
Serial No. : 008092011314 Operator : Satofumi Matsuyama

Mode / Remarks : Tx 2412MHz / 11n20HT / Ant.1,2,3

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr Factor	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.15018	50.4	19.4	0.3	50.7	19.7	66.0	56.0	15.3	36.3	N	
0.15094	50.1	19.2	0.3	50.4	19.5	65.9	55.9	15.5	36.4	L	
0.19520	45.3	31.5	0.3	45.6	31.8	63.8	53.8	18.2	27.0	I	
0.19622	45.0	30.3	0.3	45.3	30.6	63.8	53.8	18.5	23.2	N	
0.46731	36.3	24.5	0.3	36.6	24.8	56.6	46.6	20.0	21.8	I	
0.45321	38.2	32.2	0.3	38.5	32.5	56.8	46.8	18.3	14.3	N	
0.53234	44.0	33.6	0.3	44.3	33.9	56.0	46.0	11.7	12.1	N	
0.53244	44.6	34.4	0.3	44.9	34.7	56.0	46.0	11.1	11.3	L	
0.58174	43.7	37.6	0.3	44.0	37.9	56.0	46.0	12.0	8.1	N	
0.58194	42.8	37.0	0.3	43.1	37.3	56.0	46.0	12.9	8.7	L	
0.64721	42.9	36.5	0.3	43.2	36.8	56.0	46.0	12.8	9.2	L	
0.64651	42.9	35.9	0.3	43.2	36.2	56.0	46.0	12.8	9.8	N	
29.88961	37.6	30.5	2.0	39.6	32.5	60.0	50.0	20.4	17.5	L	
29.88352	37.8	30.3	2.0	39.8	32.3	60.0	50.0	20.2	17.7	N	

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

Conducted Emission
11n(20HT) Tx Mch(2437MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company	: silex technology, Inc.	Report No.	: 28IE0116-HO-02
Kind of EUT	: MiniPCI Wireless LAN Board	Power	: DC3.3V (PC input AC120V/60Hz)
Model No.	: SX-10WAN	Temp./Humi.	: 24 deg.C. / 67%
Serial No.	: 008092011314	Operator	: Satofumi Matsuyama

Mode / Remarks : Tx 2437MHz / 11n20HT / Ant.1,2,3

LIMIT : FCC15.207 QP
FCC15.207 AV

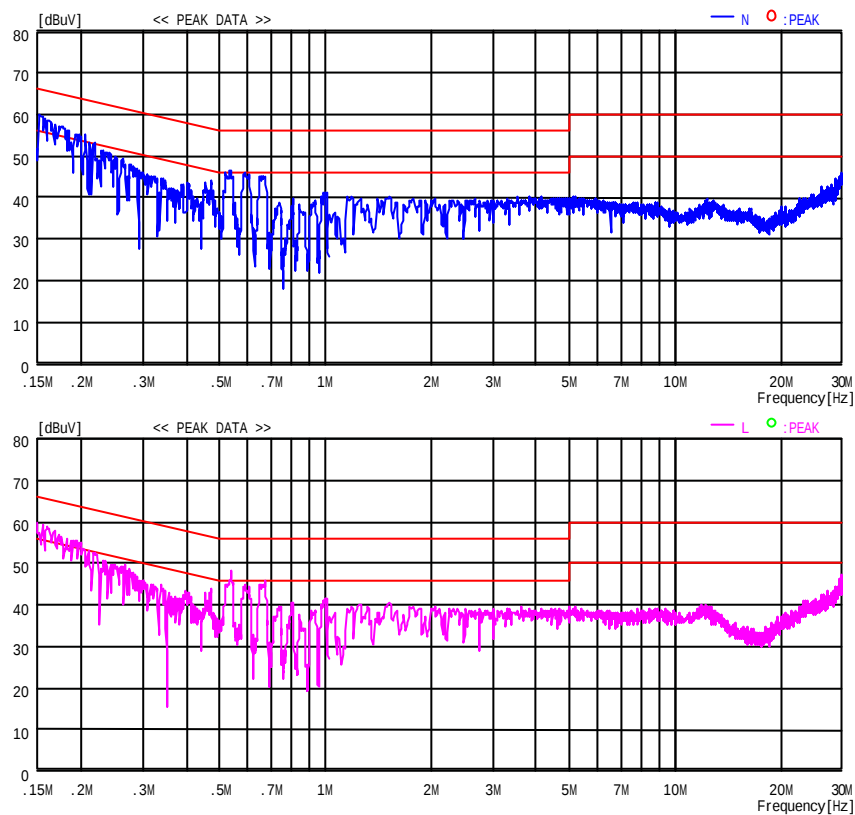


CHART: WITH FACTOR, Peak hold data. CALCURATION: RESULT[dBuV]=READING[dBuV]+C.F[dB](L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11n(20HT) Tx Hch(2462MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
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Company	: silex technology, Inc.	Report No.	: 28IE0116-HO-02
Kind of EUT	: MiniPCI Wireless LAN Board	Power	: DC3.3V (PC input AC120V/60Hz)
Model No.	: SX-10WAN	Temp./Humi.	: 24 deg.C. / 67%
Serial No.	: 008092011314	Operator	: Satofumi Matsuyama

Mode / Remarks : Tx 2462MHz / 11n20HT / Ant. 1,2,3

LIMIT : FCC15.207 QP
FCC15.207 AV

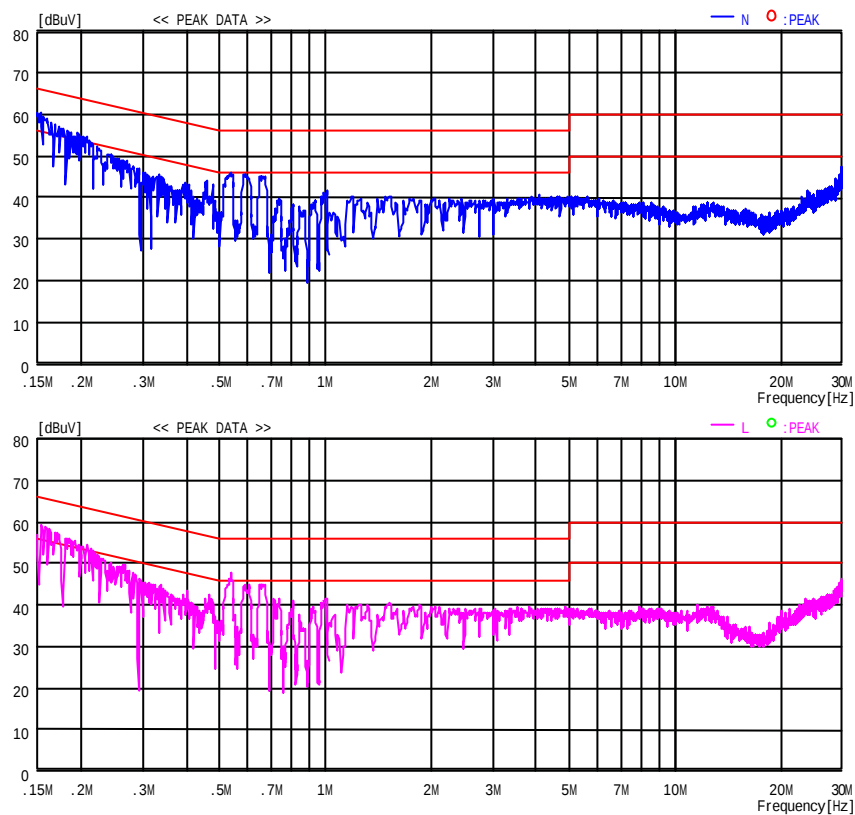


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C.F[dB](L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11n(20HT) Rx Mch(2437MHz), Used Antenna for Tx: Antenna 1 + 2 + 3

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN Board
Model No. : SX-10WAN
Serial No. : 008092011314

Report No. : 28IE0116-HO-02
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 24 deg.C. / 67%
Operator : Satofumi Matsuyama

Mode / Remarks : Rx 2437MHz / 11n20HT / Ant. 1,2,3

LIMIT : FCC15.207 QP
FCC15.207 AV

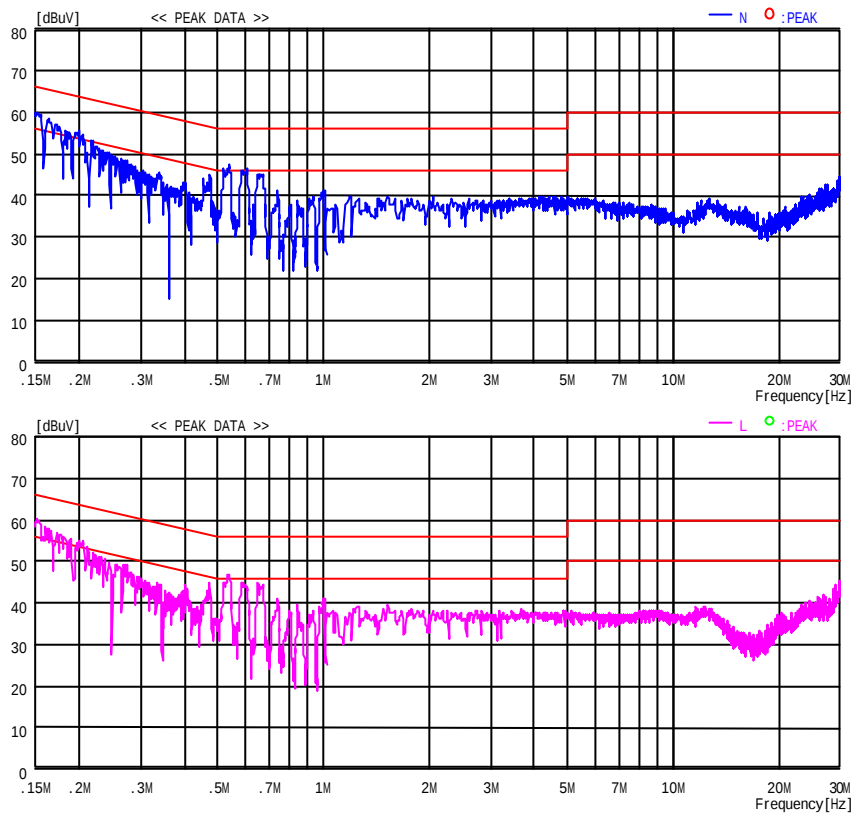


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11n(40HT) Tx Lch(2422MHz) 270Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

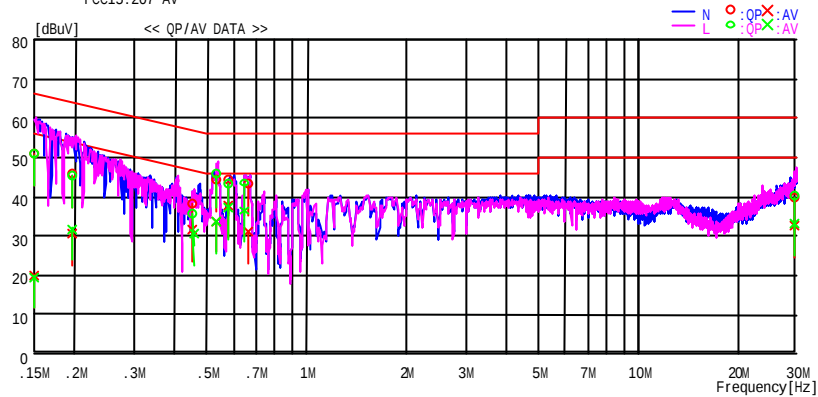
DATA OF CONDUCTED EMISSION TEST

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Date : 2008/06/04

Company : silex technology, Inc. Report No. : 28IE0116-HO-02
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Model No. : SX-10WAN Temp./Humi. : 24 deg.C. / 67%
Serial No. : 008092011314 Operator : Satofumi Matsuyama

Mode / Remarks : Tx 2422MHz / 11n40HT / Ant. 1,2,3

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase	Comment
	QP	AV		QP	AV	QP	AV	QP	AV		
0.15052	50.5	19.5	0.3	50.8	19.8	66.0	56.0	15.2	36.2	N	
0.19622	45.2	30.5	0.3	45.5	30.8	63.8	53.8	18.3	23.0	N	
0.45214	38.0	31.3	0.3	38.3	31.6	56.8	46.8	18.5	15.2	N	
0.53256	44.1	33.6	0.3	44.4	33.9	56.0	46.0	11.6	12.1	N	
0.58116	43.7	37.6	0.3	44.0	37.9	56.0	46.0	12.0	8.1	N	
0.66765	42.9	30.7	0.3	43.2	31.0	56.0	46.0	12.8	15.0	N	
29.51561	37.6	30.5	2.0	39.6	32.5	60.0	50.0	20.4	17.5	N	
0.15076	50.4	19.4	0.3	50.7	19.7	66.0	56.0	15.3	36.3	L	
0.19644	45.0	31.6	0.3	45.3	31.9	63.8	53.8	18.5	21.9	L	
0.45434	35.2	30.4	0.3	35.5	30.7	56.8	46.8	21.3	16.1	L	
0.53288	45.2	33.4	0.3	45.5	33.7	56.0	46.0	10.5	12.3	L	
0.58171	42.9	37.0	0.3	43.2	37.3	56.0	46.0	12.8	8.7	L	
0.64595	43.1	36.2	0.3	43.4	36.5	56.0	46.0	12.6	9.5	L	
29.53921	37.9	31.2	2.0	39.9	33.2	60.0	50.0	20.1	16.8	L	

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

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11n(40HT) Tx Mch(2437M Hz) 270Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

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Date : 2008/06/04

Company	: silex technology, Inc.	Report No.	: 28IE0116-HO-02
Kind of EUT	: MiniPCI Wireless LAN Board	Power	: DC3.3V (PC input AC120V/60Hz)
Model No.	: SX-10WAN	Temp./Humi.	: 24 deg.C. / 67%
Serial No.	: 008092011314	Operator	: Satofumi Matsuyama

Mode / Remarks : Tx 2437MHz / 11n40HT / Ant. 1,2,3

LIMIT : FCC15.207 QP
FCC15.207 AV

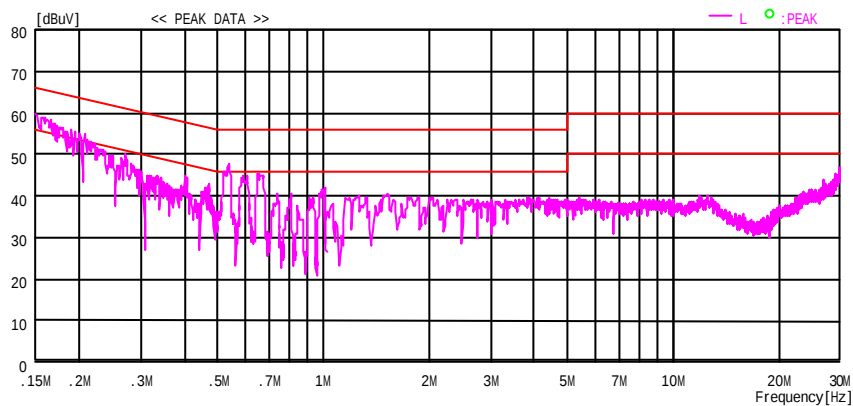
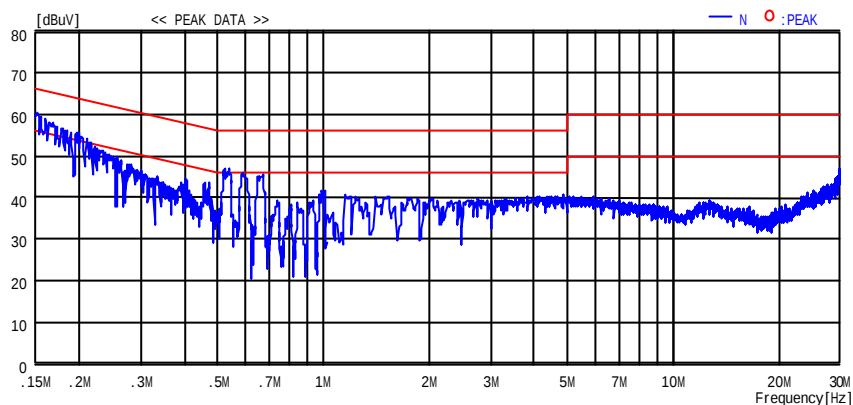


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C.F[dB](L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11n(40HT) Tx Hch(2452MHz) 270Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company	: silex technology, Inc.	Report No.	: 28IE0116-HO-02
Kind of EUT	: MiniPCI Wireless LAN Board	Power	: DC3.3V (PC input AC120V/60Hz)
Model No.	: SX-10WAN	Temp./Humi.	: 24 deg.C. / 67%
Serial No.	: 008092011314	Operator	: Satofumi Matsuyama

Mode / Remarks : Tx 2452MHz / 11n40HT / Ant. 1,2,3

LIMIT : FCC15.207 QP
FCC15.207 AV

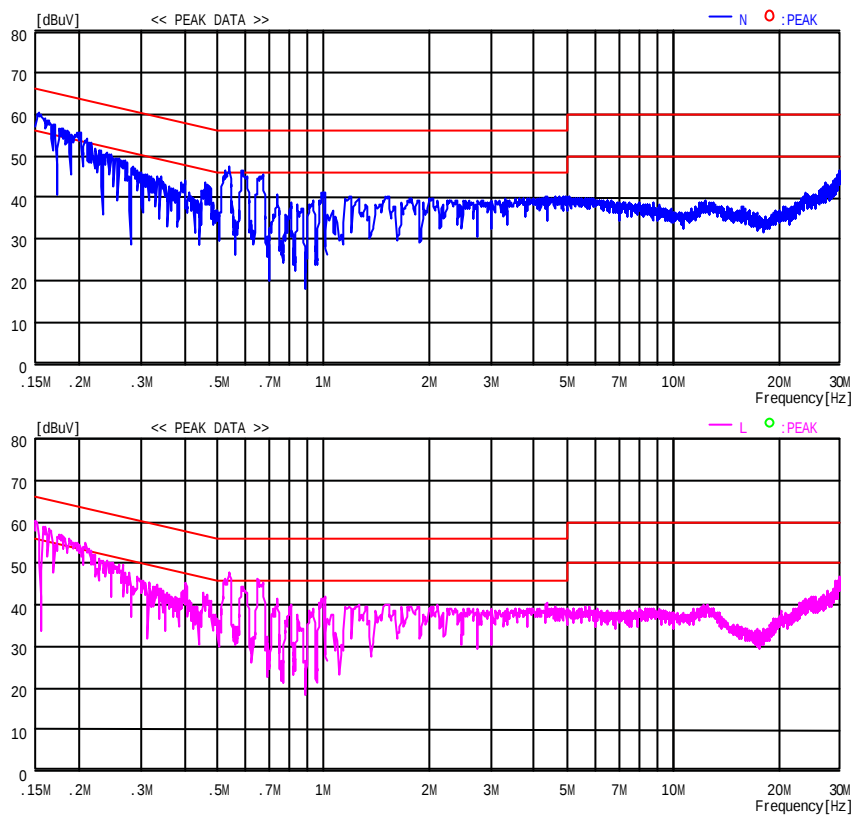


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C.F[dB](L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11n(40HT) Rx Mch(2437MHz), Used Antenna for Rx: Antenna 1 + 2 + 3

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company	: silex technology, Inc.	Report No.	: 28IE0116-HO-02
Kind of EUT	: MiniPCI Wireless LAN Board	Power	: DC3.3V (PC input AC120V/60Hz)
Model No.	: SX-10WAN	Temp./Humi.	: 24 deg.C. / 67%
Serial No.	: 008092011314	Operator	: Satofumi Matsuyama

Mode / Remarks : Rx 2437MHz / 11n40HT / Ant. 1,2,3

LIMIT : FCC15.207 QP
FCC15.207 AV

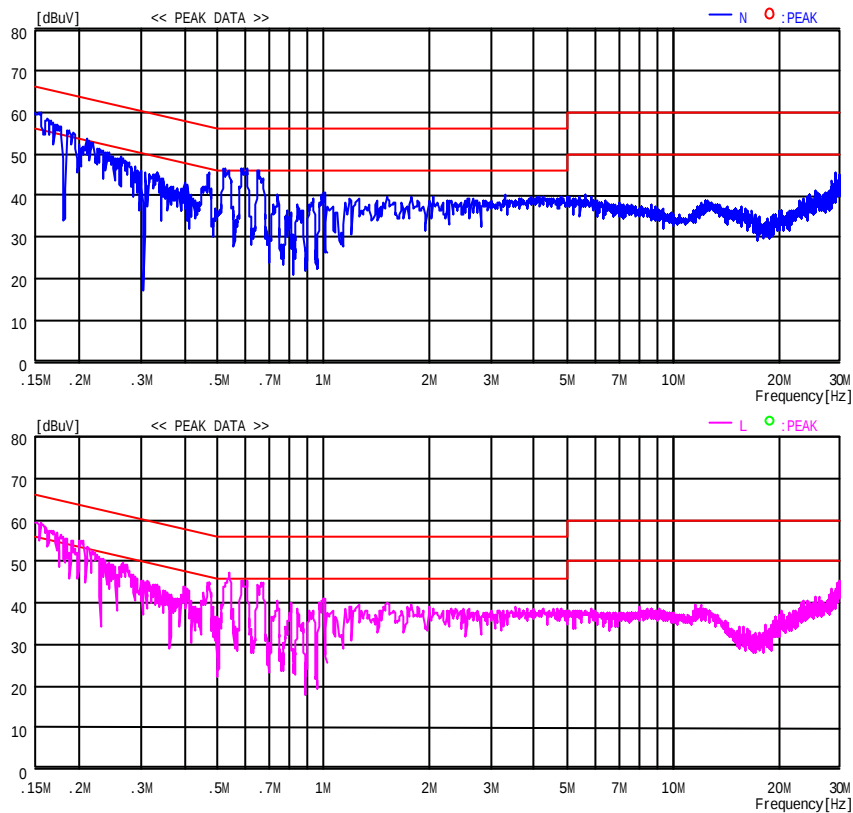


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a Tx Lch(5745MHz) 54Mbps, Used Antenna for Tx: Antenna 1

DATA OF CONDUCTED EMISSION TEST

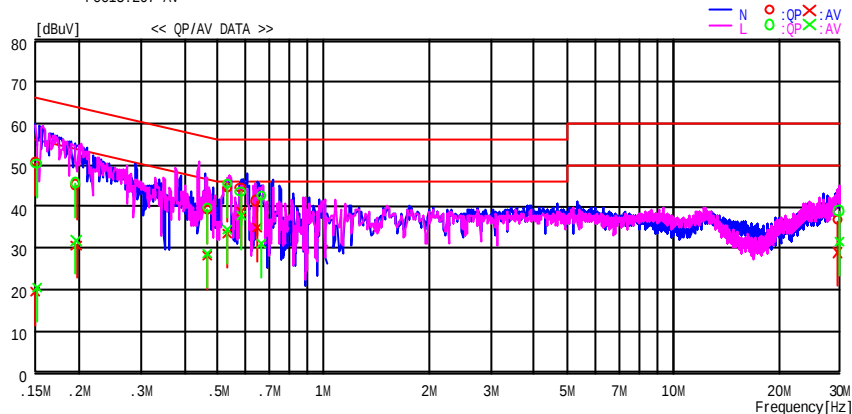
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN Board
Model No. : SX-10WAN
Serial No. : 008092011314

Report No. : 28IE0116-HO-02
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 24 deg.C. / 67%
Operator : Satofumi Matsuyama

Mode / Remarks : Tx 5745MHz / 11a / Ant:1

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.15034	50.2	19.2	0.3	50.5	19.5	66.0	56.0	15.5	36.5	N	
0.19666	44.8	30.4	0.3	45.1	30.7	63.8	53.8	18.7	23.1	N	
0.46743	38.9	27.8	0.3	39.2	28.1	56.6	46.6	17.4	18.5	N	
0.53351	44.2	33.2	0.3	44.5	33.5	56.0	46.0	11.5	12.5	N	
0.58219	44.0	38.3	0.3	44.3	38.6	56.0	46.0	11.7	7.4	N	
0.64676	40.9	34.5	0.3	41.2	34.8	56.0	46.0	14.8	11.2	N	
29.45823	34.6	26.9	2.0	36.6	28.9	60.0	50.0	23.4	21.1	N	
0.15182	49.9	20.1	0.3	50.2	20.4	65.9	55.9	15.7	35.5	L	
0.19648	45.3	31.5	0.3	45.6	31.8	63.8	53.8	18.7	22.0	L	
0.46674	39.1	28.3	0.3	39.4	28.6	56.6	46.6	17.2	18.0	L	
0.53336	45.1	34.0	0.3	45.4	34.3	56.0	46.0	10.6	11.7	L	
0.58251	43.2	37.5	0.3	43.5	37.8	56.0	46.0	12.5	8.2	L	
0.66641	42.2	30.6	0.3	42.5	30.9	56.0	46.0	13.5	15.1	L	
29.82684	36.8	29.5	2.0	38.8	31.5	60.0	50.0	21.2	18.5	L	

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

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

Conducted Emission
11a Tx Mch(5785MHz) 54Mbps, Used Antenna for Tx: Antenna 1

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN Board
Model No. : SX-10WAN +TT98061
Serial No. : 008092011314 +001,002,003

Report No. : 28IE0116-HO-02
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 24 deg.C. / 67%
Operator : Satofumi Matsuyama

Mode / Remarks : Tx 5785MHz / 11a / Ant:1

LIMIT : FCC15.207 QP
FCC15.207 AV

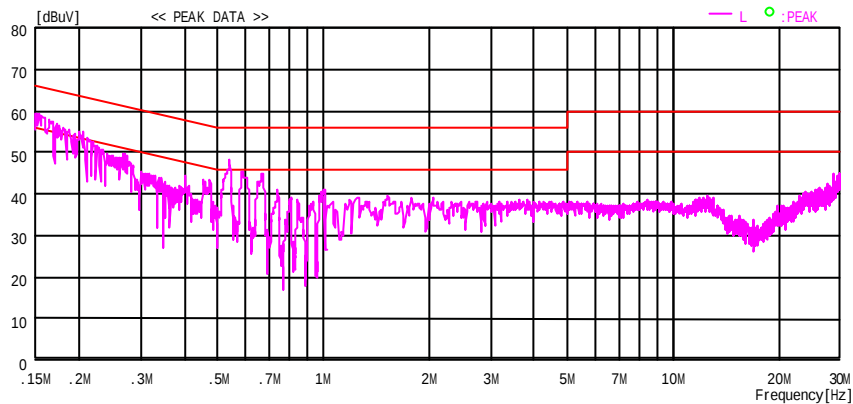
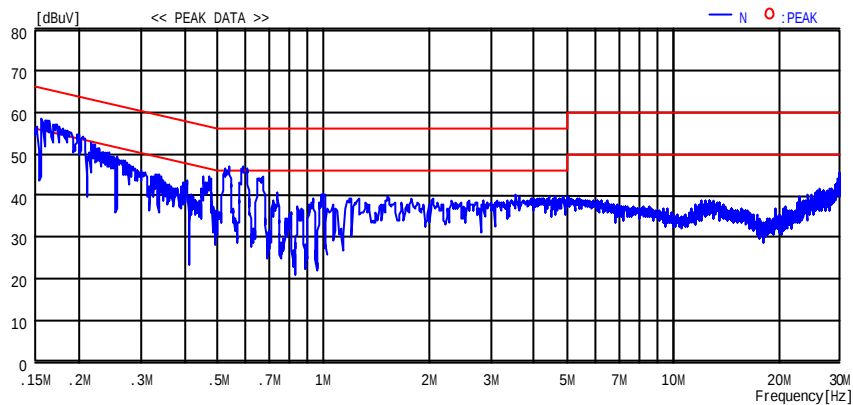


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11a Tx Hch(5825MHz) 54Mbps, Used Antenna for Tx: Antenna 1

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company : silex technology, Inc.
Kind of EUT : MiniPCI Wireless LAN Board
Model No. : SX-10WAN +TT98061
Serial No. : 008092011314 +001,002,003

Report No. : 28IE0116-HO-02
Power : DC3.3V (PC input AC120V/60Hz)
Temp./Humi. : 24 deg.C. / 67%
Operator : Satofumi Matsuyama

Mode / Remarks : Tx 5825MHz / 11a / Ant:1

LIMIT : FCC15.207 QP
FCC15.207 AV

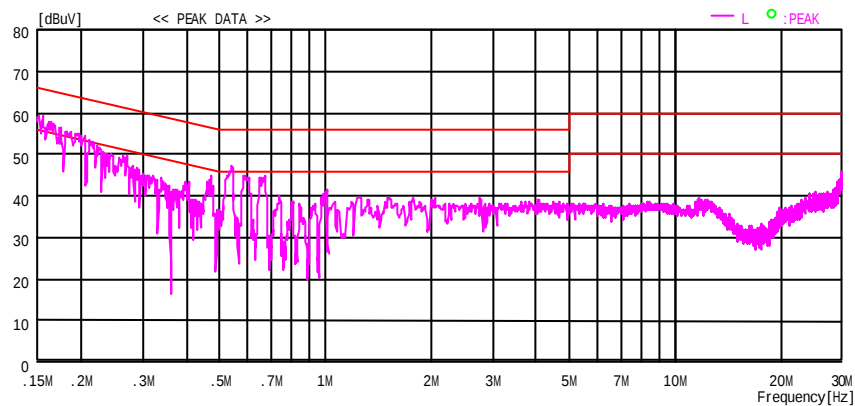
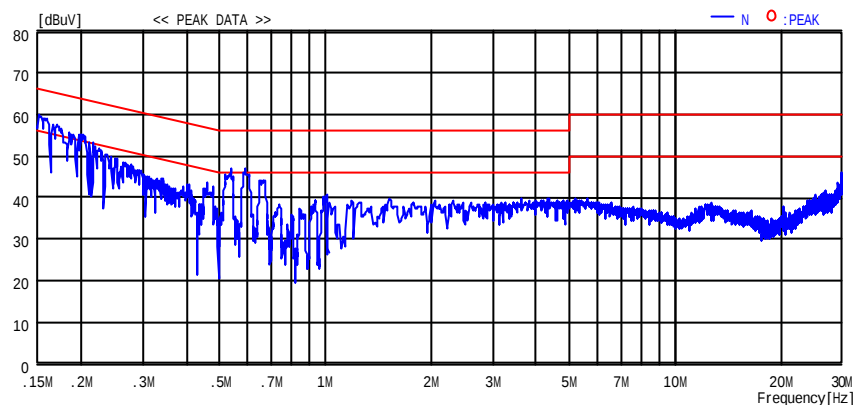


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

11a Rx Mch(5785MHz), Used Antenna for Rx: Antenna 1

DATA OF CONDUCTED EMISSION TEST

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

Date : 2008/06/04

Company : silex technology, Inc.

Kind of EUT : MiniPCI Wireless LAN Board

Model No. : SX-10WAN +TT98061

Serial No. : 008092011314 +001,002,003

Report No. : 28IE0116-HO-02

Power : DC3.3V (PC input AC120V/60Hz)

Temp./Humi. : 24 deg.C. / 67%

Operator : Satofumi Matsuyama

Mode / Remarks : Rx 5785MHz / 11a / Ant:1

LIMIT : FCC15.207 QP

FCC15.207 AV

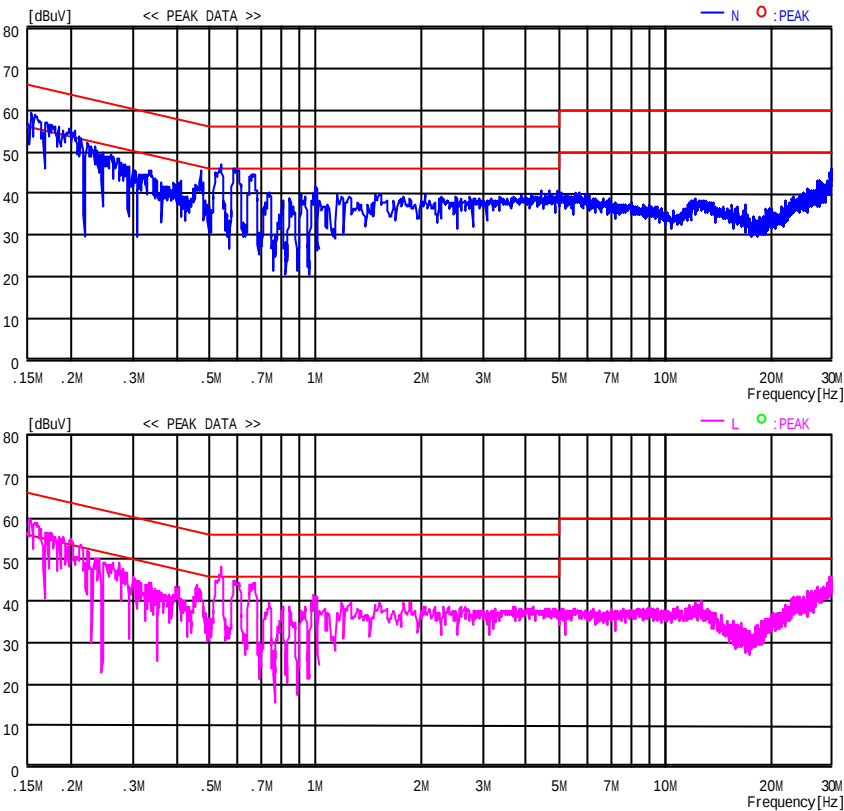


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11n(20HT) Tx Lch(5745MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

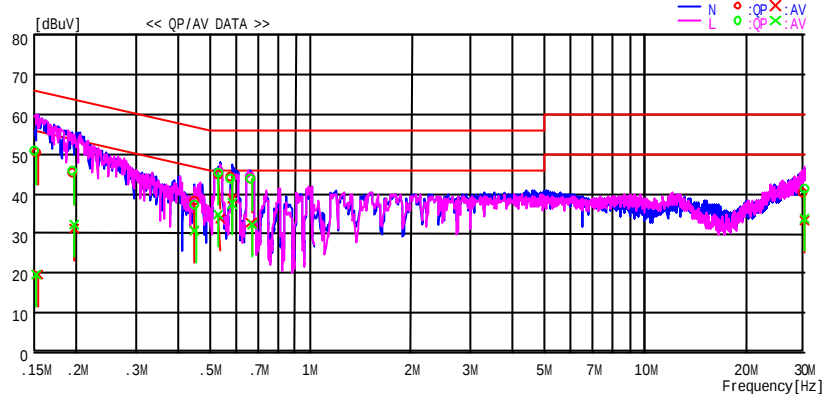
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company : silex technology, Inc. Report No. : 28IE0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (PC input AC120V/60Hz)
Model No. : SX-10WAN +TT98061 Temp./Humi. : 24 deg.C. / 67%
Serial No. : 008092011314 +001,002,003 Operator : Satofumi Matsuyama

Mode / Remarks : Tx 5745MHz / 11n20HT / Ant:1,2,3

LIMIT : FCC15, 207 QP
FCC15, 207 AV



Frequency [MHz]	Reading Level		Factor	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.15778	49.9	19.1	0.3	50.2	19.4	65.8	55.8	15.6	36.4	N	
0.19627	45.0	30.8	0.3	45.3	31.1	63.8	53.8	18.5	22.7	N	
0.45117	37.7	30.2	0.3	38.0	30.5	56.9	46.9	18.9	16.4	N	
0.53339	44.2	33.4	0.3	44.5	33.7	56.0	46.0	11.5	12.3	N	
0.58267	43.9	38.5	0.3	44.2	38.8	56.0	46.0	11.8	7.2	N	
0.66593	43.3	32.3	0.3	43.6	32.6	56.0	46.0	12.4	13.4	N	
29.86001	38.1	31.0	2.0	40.1	33.0	60.0	50.0	19.9	17.0	N	
0.15061	50.2	19.3	0.3	50.5	19.6	66.0	56.0	15.5	36.4	L	
0.19601	45.2	31.9	0.3	45.5	32.2	63.8	53.8	18.3	21.6	I	
0.45299	36.6	30.3	0.3	36.9	30.6	56.8	46.8	19.9	16.2	L	
0.53259	44.8	34.5	0.3	45.1	34.8	56.0	46.0	10.9	11.2	I	
0.58187	43.3	37.2	0.3	43.6	37.5	56.0	46.0	12.4	8.5	L	
0.66693	43.4	31.8	0.3	43.7	32.1	56.0	46.0	12.3	13.9	L	
29.98401	38.9	31.7	2.0	40.9	33.7	60.0	50.0	19.1	16.3	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 rounded off to one or two decimal places, so some differences might be observed.

Conducted Emission
11n(20HT) Tx Mch(5785MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company	: silex technology, Inc.	Report No.	: 28IE0116-HO-02
Kind of EUT	: MiniPCI Wireless LAN Board	Power	: DC3.3V (PC input AC120V/60Hz)
Model No.	: SX-10WAN +TT98061	Temp./Humi.	: 24 deg.C. / 67%
Serial No.	: 008092011314 +001,002,003	Operator	: Satofumi Matsuyama

Mode / Remarks : Tx 5785MHz / 11n20HT / Ant:1,2,3

LIMIT : FCC15.207 QP
FCC15.207 AV

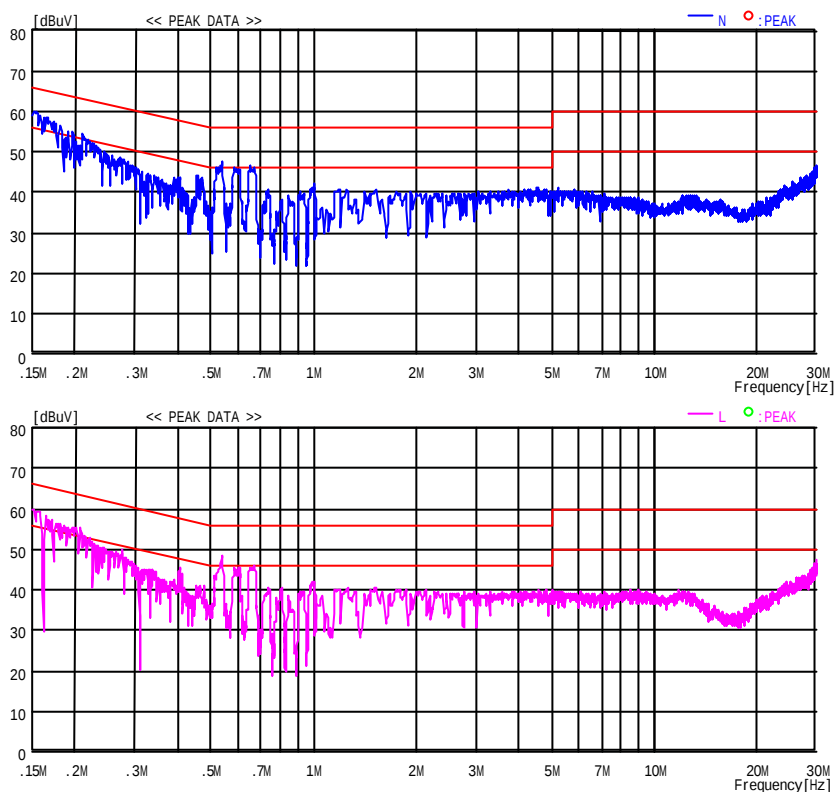


CHART: WITH FACTOR, Peak hold data. CALCURATION: RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11n(20HT) Tx Hch(5825MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company	: silex technology, Inc.	Report No.	: 28IE0116-HO-02
Kind of EUT	: MiniPCI Wireless LAN Board	Power	: DC3.3V (PC input AC120V/60Hz)
Model No.	: SX-10WAN +TT98061	Temp./Humi.	: 24 deg.C. / 67%
Serial No.	: 008092011314 +001,002,003	Operator	: Satofumi Matsuyama

Mode / Remarks: Tx 5825MHz / 11n20HT / Ant:1,2,3

LIMIT : FCC15.207 OP
FCC15.207 AV

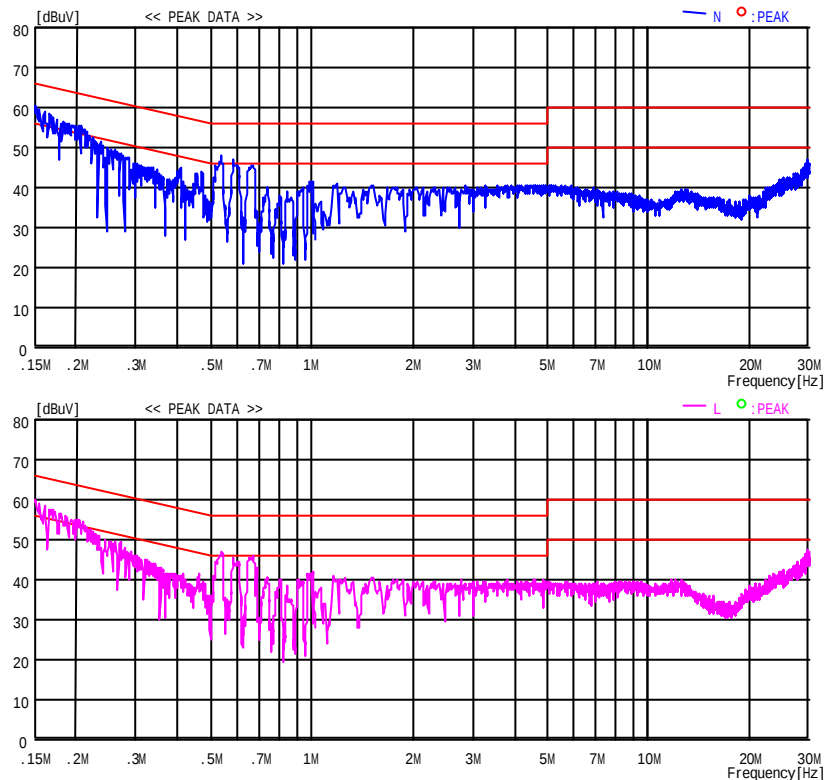


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11n(20HT) Rx Mch(5785MHz), Used Antenna for Rx: Antenna 1 + 2 + 3

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company	: silex technology, Inc.	Report No.	: 28IE0116-HO-02
Kind of EUT	: MiniPCI Wireless LAN Board	Power	: DC3.3V (PC input AC120V/60Hz)
Model No.	: SX-10WAN +TT98061	Temp./Humi.	: 23 deg.C. / 64%
Serial No.	: 008092011314 +001,002,003	Operator	: Takumi Shimada

Mode / Remarks : Rx 5785MHz / 11n20HT / Ant:1,2,3

LIMIT : FCC15.207 QP
FCC15.207 AV

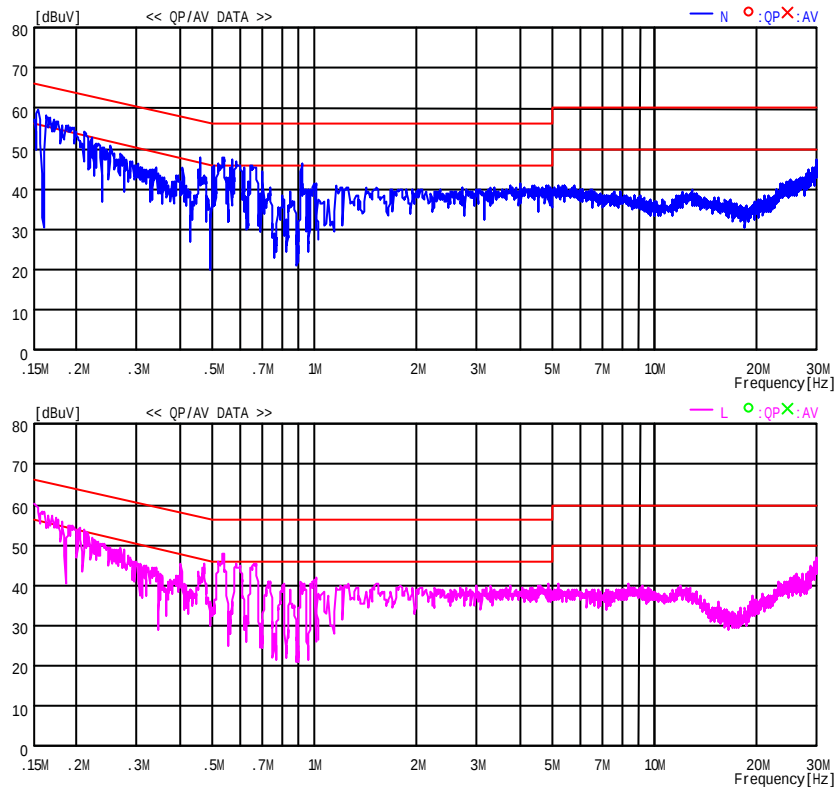


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11n(40HT) Tx Lch(5755MHz) 270Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

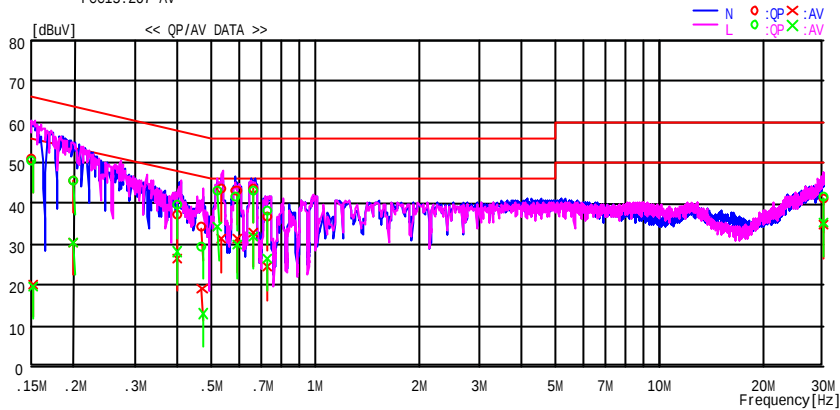
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company : silex technology, Inc. Report No. : 28IE0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (PC input AC120V/60Hz)
Model No. : SX-10WAN+TT98061 Temp./Humi. : 23 deg.C. / 64%
Serial No. : 008092011314 +001,002,003 Operator : Takumi Shimada

Mode / Remarks : Tx 5755MHz / 11n40HT / Ant:1,2,3

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Cnrr. Factor	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.15139	50.4	20.0	0.3	50.7	20.3	65.9	55.9	15.2	35.6	N	
0.19893	45.3	30.1	0.3	45.6	30.4	63.7	53.7	18.1	23.3	N	
0.40003	37.0	26.3	0.3	37.3	26.6	57.9	47.9	20.6	21.3	N	
0.47079	33.8	19.0	0.3	34.1	19.3	56.5	46.5	22.5	27.3	N	
0.53506	43.3	31.0	0.3	43.6	31.3	56.0	46.0	17.4	14.7	N	
0.59408	42.5	31.0	0.3	42.8	31.3	56.0	46.0	13.2	14.7	N	
0.66377	43.2	32.4	0.3	43.5	32.7	56.0	46.0	17.5	13.3	N	
0.72829	36.1	24.1	0.3	36.4	24.4	56.0	46.0	19.6	21.7	N	
29.99858	39.0	32.8	2.0	41.0	34.8	60.0	50.0	19.0	15.3	N	
0.15129	50.2	19.5	0.3	50.5	19.8	65.9	55.9	15.4	36.1	L	
0.19961	45.1	30.3	0.3	45.4	30.6	63.6	53.6	18.2	23.1	L	
0.40003	39.2	28.0	0.3	39.5	28.3	57.9	47.9	18.4	19.7	L	
0.47227	29.1	12.7	0.3	29.4	13.0	56.5	46.5	27.1	33.5	L	
0.52380	42.9	33.9	0.3	43.2	34.2	56.0	46.0	12.8	11.9	L	
0.59302	41.2	29.5	0.3	41.5	29.8	56.0	46.0	14.5	16.2	L	
0.66253	42.9	31.7	0.3	43.2	32.0	56.0	46.0	12.8	14.0	L	
0.72986	37.7	26.3	0.3	38.0	26.6	56.0	46.0	18.0	19.4	L	
29.99907	39.4	33.2	2.0	41.4	35.2	60.0	50.0	18.6	14.8	L	

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

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

Conducted Emission

11n(40HT) Tx Hch(5795MHz) 270Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

DATA OF CONDUCTED EMISSION TEST

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

Date : 2008/06/04

Company : silex technology. Inc.

Kind of EUT : MiniPCI Wireless LAN Board

Model No. : SX-10WAN +TT98061

Serial No. : 008092011314 +001,002,003

Report No. : 28IE0116-HO-02

Power : DC3.3V (PC input AC120V/60Hz)

Temp./Humi. : 23 deg.C. / 64%

Operator : Takumi Shimada

Mode / Remarks : Tx 5795MHz / 11n40HT / Ant:1,2,3

LIMIT : FCC15.207 QP

FCC15.207 AV

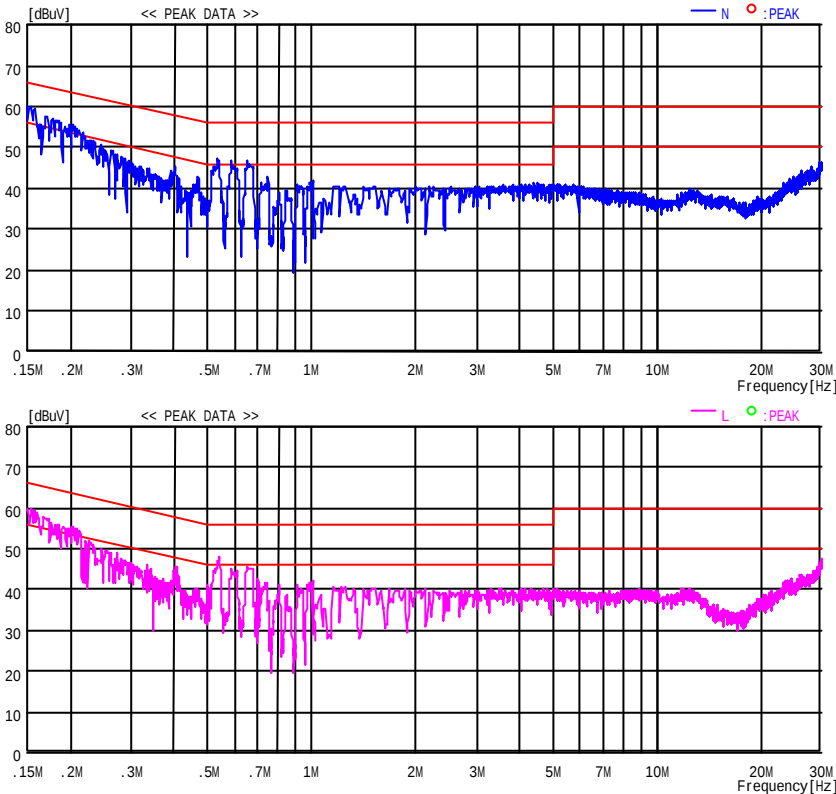


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)

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

Conducted Emission
11n(40HT) Rx Hch(5795MHz), Used Antenna for Rx: Antenna 1 + 2 + 3

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2008/06/04

Company	: silex technology, Inc.	Report No.	: 28IE0116-HO-02
Kind of EUT	: MiniPCI Wireless LAN Board	Power	: DC3.3V (PC input AC120V/60Hz)
Model No.	: SX-10WAN +TT98061	Temp./Humi.	: 23 deg.C. / 64%
Serial No.	: 008092011314 +001,002,003	Operator	: Takumi Shimada

Mode / Remarks : Rx 5795MHz / 11n40HT / Ant:1,2,3

LIMIT : FCC15.207 QP
FCC15.207 AV

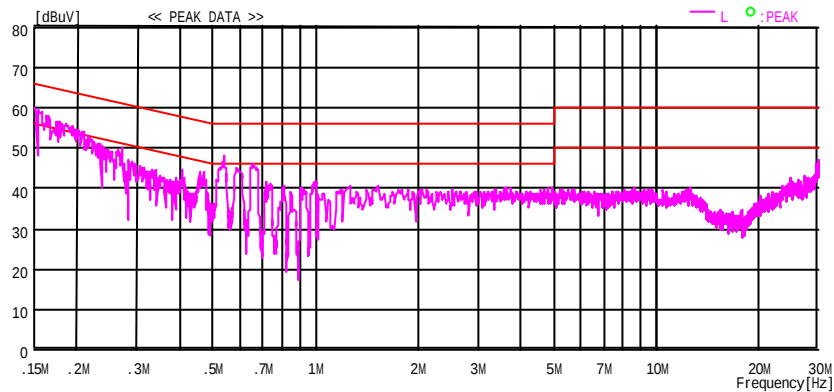
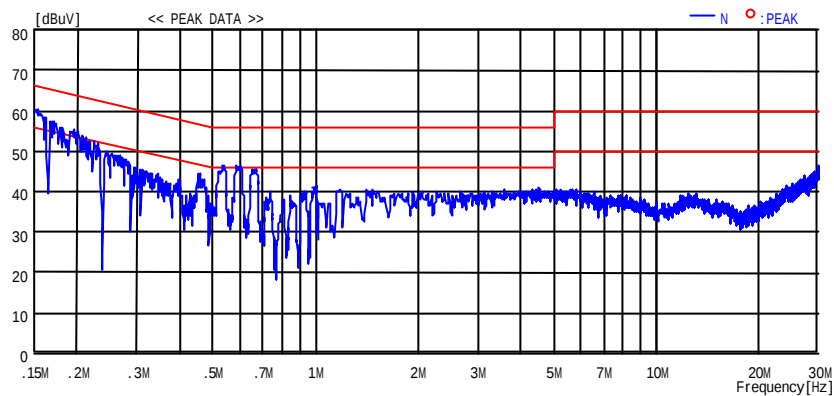


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

6dB Bandwidth
11b

UL Japan, Inc.
Head Office EMC Lab. No.11 Measurement Room

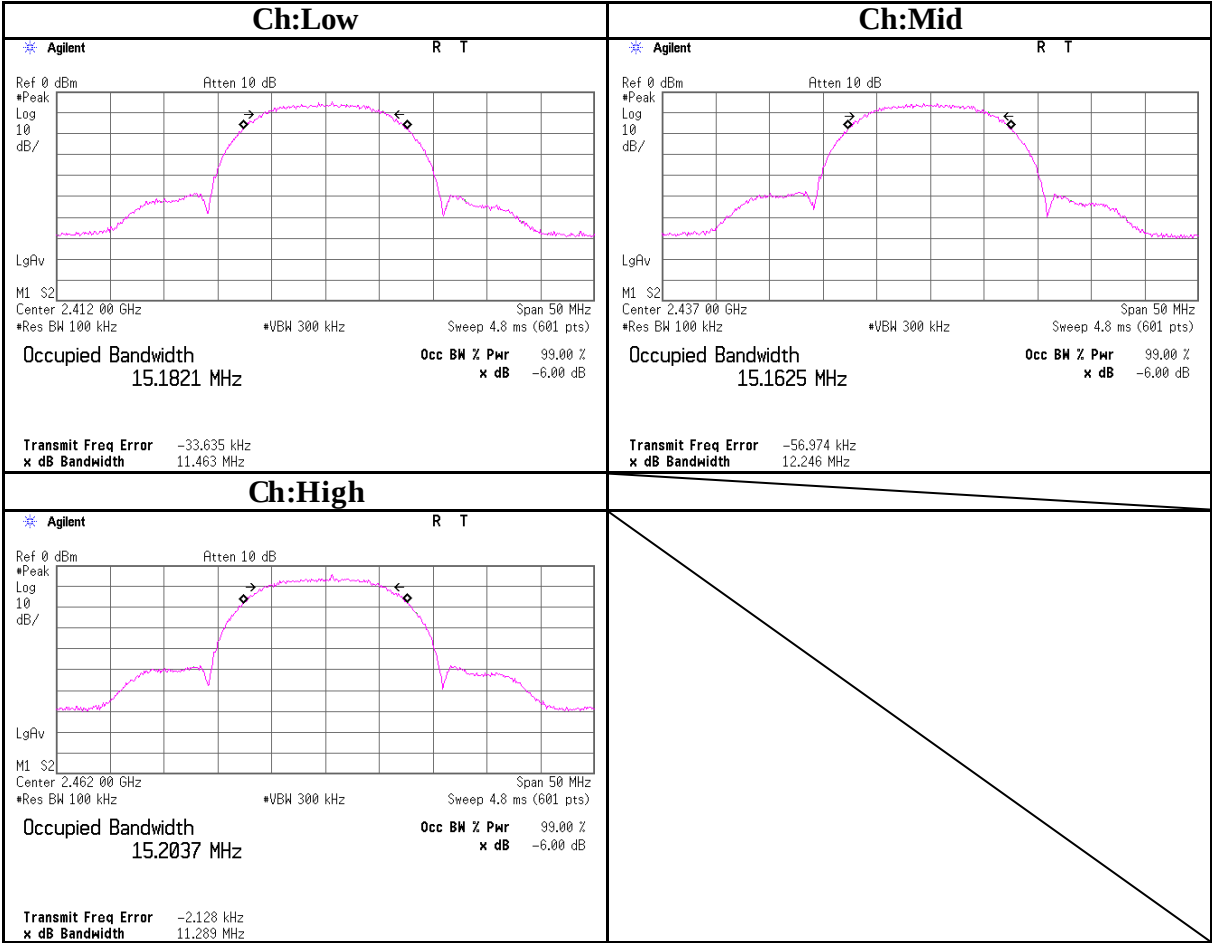
COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL NO. : SX-10WAN
SERIAL NO. : 008092011316
POWER : DC 3.3V
MODE : Tx , WLAN 11b, 11Mbps, Ant3

REPORT NO : 28IE0116-HO-02
REGULATION : FCC15.247(a)(2) / RSS-210 A8.2(a)
TEST DISTANCE : -
DATE : 05/22/2008
TEMPERATURE : 23 deg. C
HUMIDITY : 58 %
ENGINEER : Takahiro Hatakeda

Ch	Freq.	Result	Limit
	[MHz]	[MHz]	[MHz]
Low	2412.0	11.46	0.50
Mid	2437.0	12.25	0.50
High	2462.0	11.29	0.50

6dB Bandwidth

11b



6dB Bandwidth
11g

UL Japan, Inc.
Head Office EMC Lab. No.11 Measurement Room

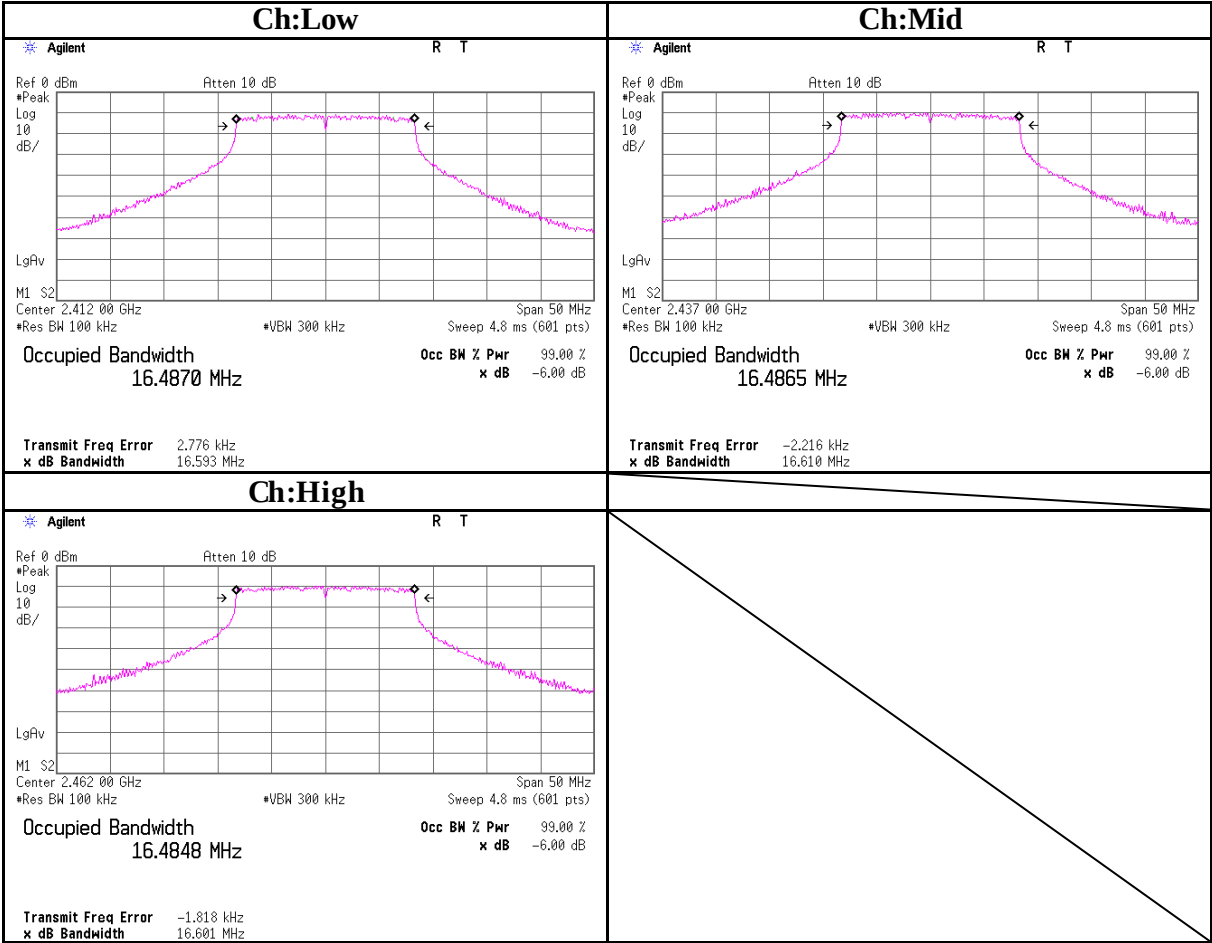
COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL NO. : SX-10WAN
SERIAL NO. : 008092011316
POWER : DC 3.3V
MODE : Tx , WLAN 11g, 54Mbps, Ant3

REPORT NO : 28IE0116-HO-02
REGULATION : FCC15.247(a)(2) / RSS-210 A8.2(a)
TEST DISTANCE : -
DATE : 05/22/2008
TEMPERATURE : 23 deg. C
HUMIDITY : 58 %
ENGINEER : Takahiro Hatakeda

Ch	Freq.	Result	Limit
	[MHz]	[MHz]	[MHz]
Low	2412.0	16.59	0.50
Mid	2437.0	16.61	0.50
High	2462.0	16.60	0.50

6dB Bandwidth

11g



6dB Bandwidth
11a

UL Japan, Inc.
Head Office EMC Lab. No.11 Measurement Room

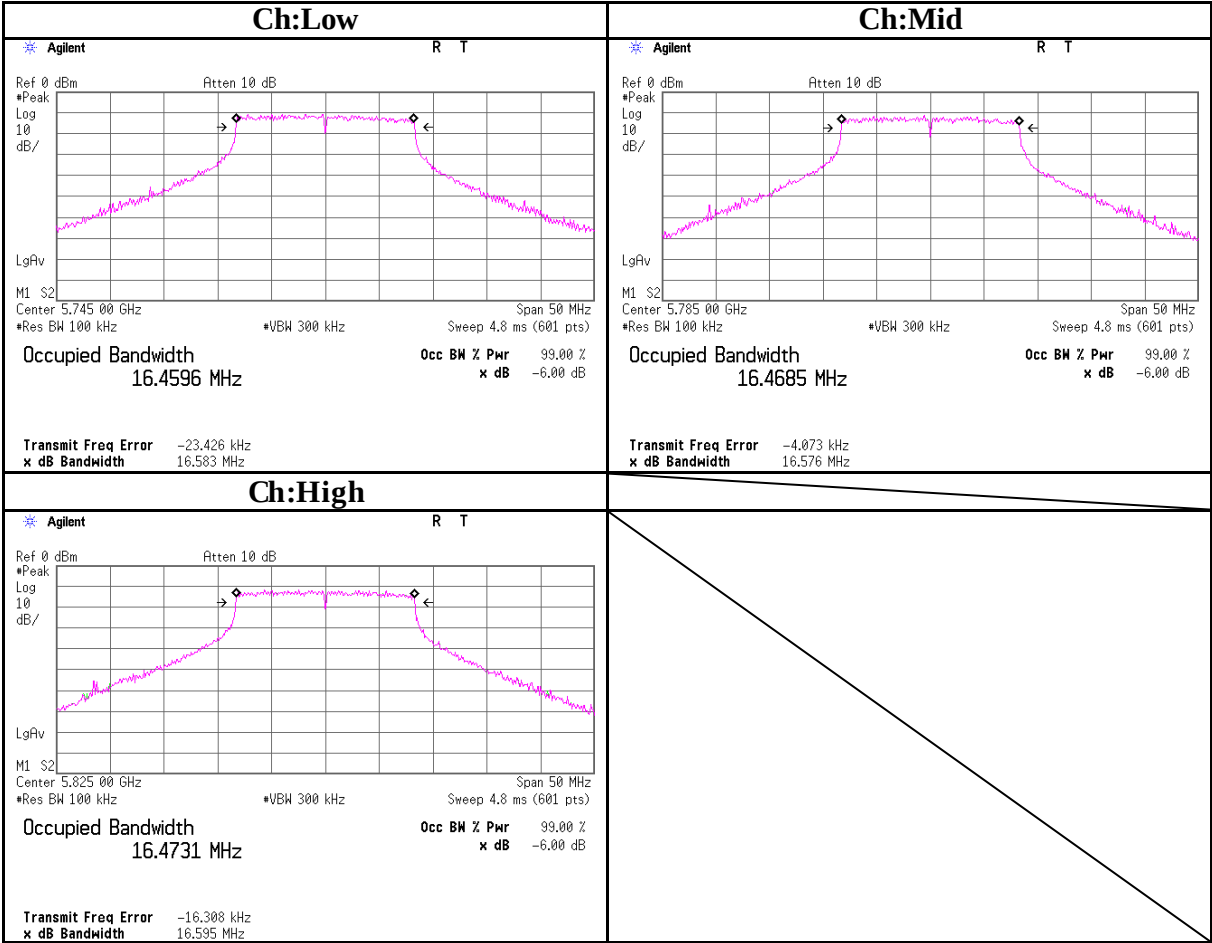
COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL NO. : SX-10WAN
SERIAL NO. : 008092011316
POWER : DC 3.3V
MODE : Tx , WLAN 11a, 54Mbps, Ant3

REPORT NO : 28IE0116-HO-02
REGULATION : FCC15.247(a)(2) / RSS-210 A8.2(a)
TEST DISTANCE : -
DATE : 05/22/2008
TEMPERATURE : 23 deg. C
HUMIDITY : 58 %
ENGINEER : Takahiro Hatakeda

Ch	Freq.	Result	Limit
	[MHz]	[MHz]	[MHz]
Low	5745.0	16.58	0.50
Mid	5785.0	16.58	0.50
High	5825.0	16.60	0.50

6dB Bandwidth

11a



6dB Bandwidth
11n(20HT)

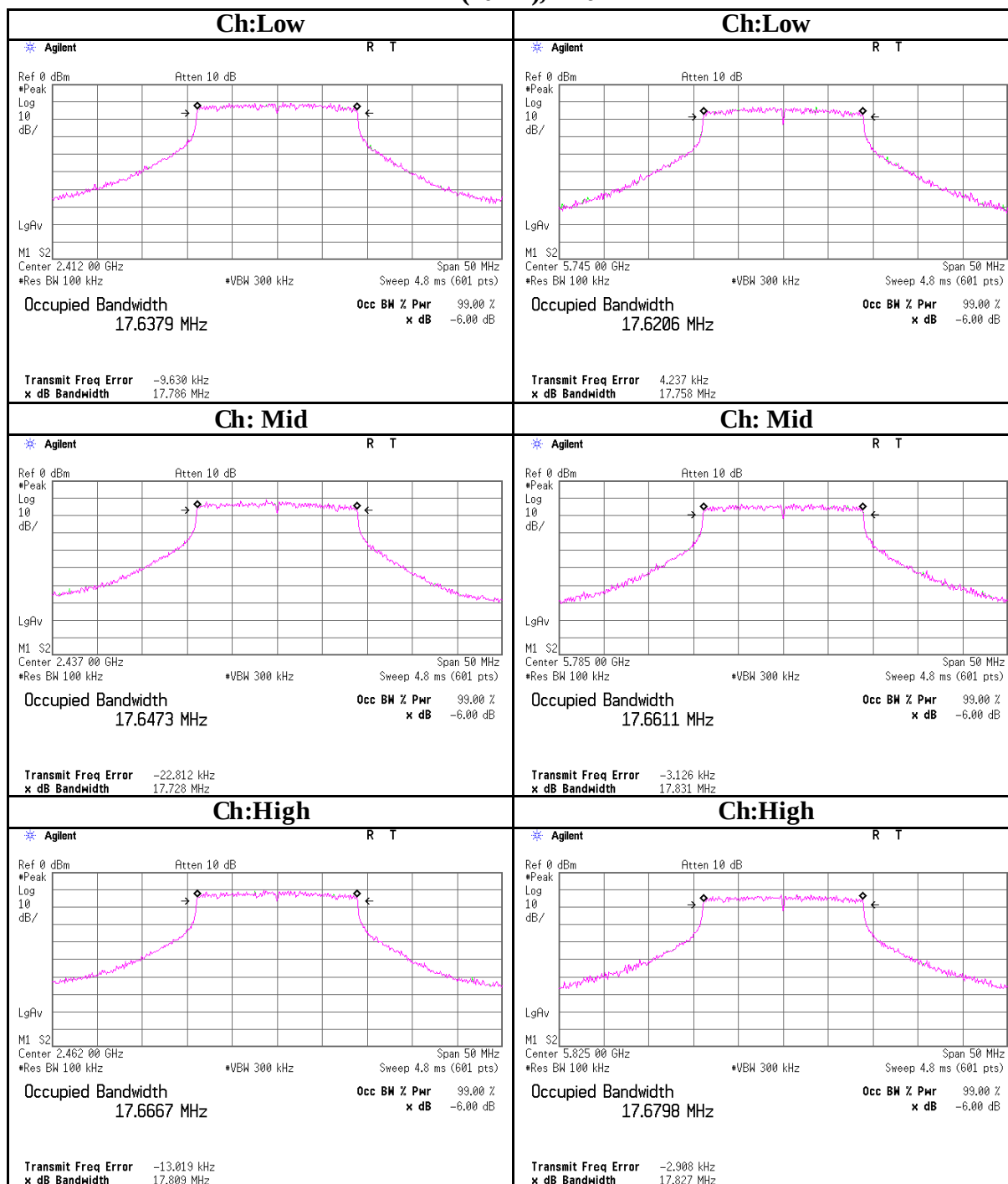
UL Japan, Inc.
Head Office EMC Lab. No.11 Measurement Room

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL NO. : SX-10WAN
SERIAL NO. : 008092011316
POWER : DC 3.3V
MODE : Tx , WLAN 11n 20HT, 130Mbps

REPORT NO : 28IE0116-HO-02
REGULATION : FCC15.247(a)(2) / RSS-210 A8.2(a)
TEST DISTANCE : -
DATE : 05/22/2008
TEMPERATURE : 23 deg. C
HUMIDITY : 58 %
ENGINEER : Takahiro Hatakeda

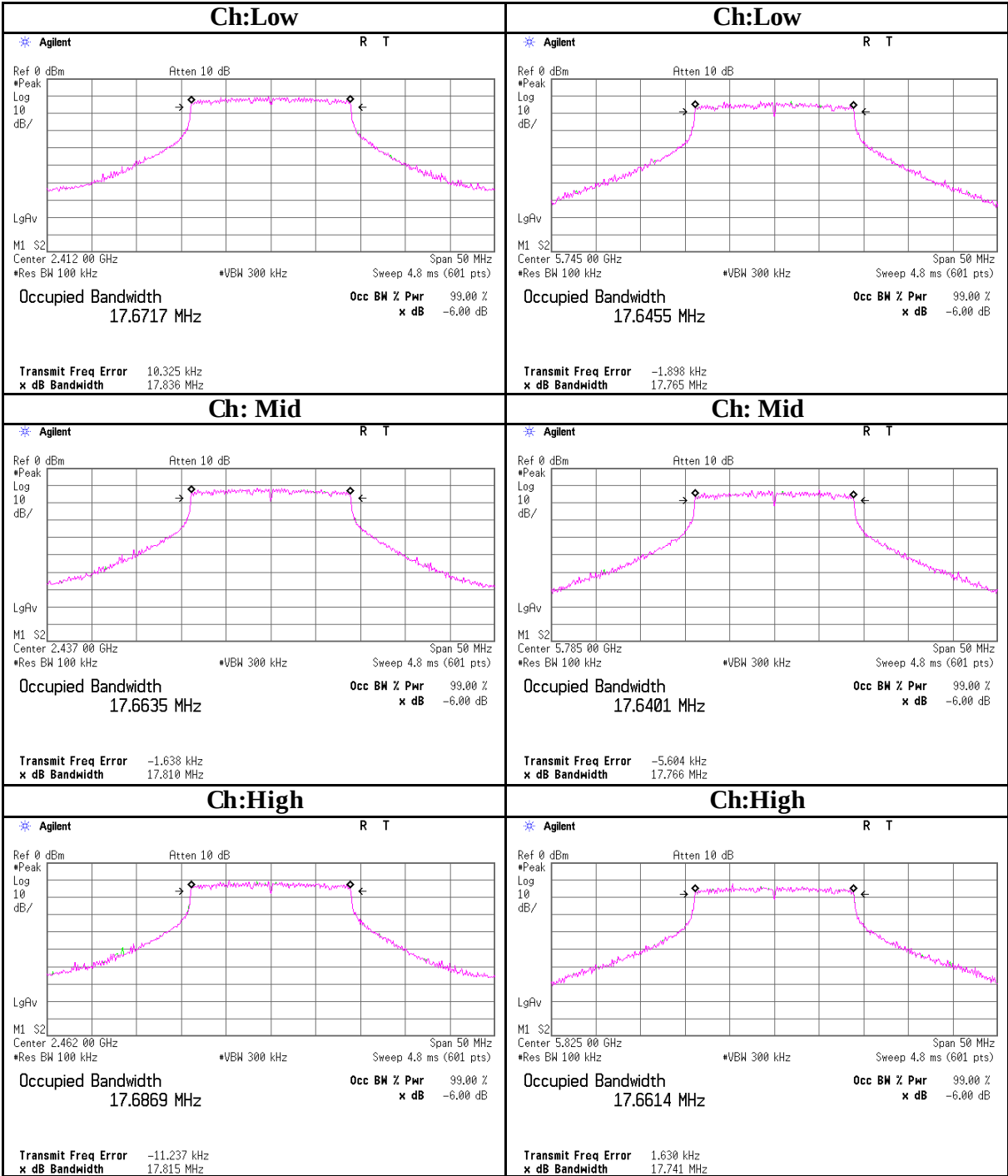
Antenna Port	Ch	Freq. [MHz]	Result [MHz]	Limit [MHz]
Ant1	Low	2412.0	17.79	0.50
	Mid	2437.0	17.73	0.50
	High	2462.0	17.81	0.50
	Low	5745.0	17.76	0.50
	Mid	5785.0	17.83	0.50
	High	5825.0	17.83	0.50
Ant2	Low	2412.0	17.84	0.50
	Mid	2437.0	17.81	0.50
	High	2462.0	17.82	0.50
	Low	5745.0	17.77	0.50
	Mid	5785.0	17.77	0.50
	High	5825.0	17.74	0.50
Ant3	Low	2412.0	17.80	0.50
	Mid	2437.0	17.78	0.50
	High	2462.0	17.87	0.50
	Low	5745.0	17.82	0.50
	Mid	5785.0	17.82	0.50
	High	5825.0	17.80	0.50

6dB Bandwidth
11n(20HT), Ant1

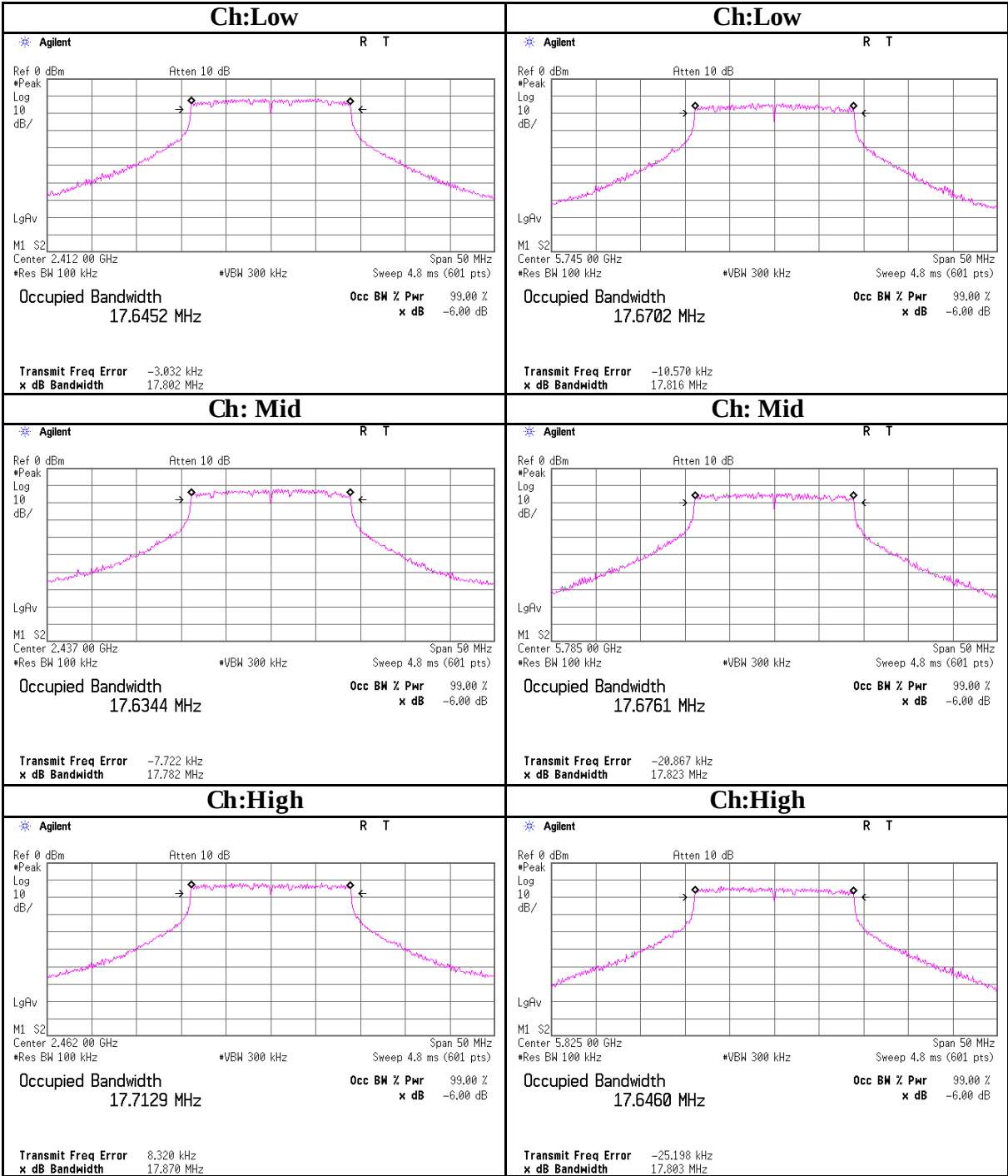


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6dB Bandwidth
11n(20HT), Ant2



6dB Bandwidth
11n(20HT), Ant3



6dB Bandwidth
11n(40HT)

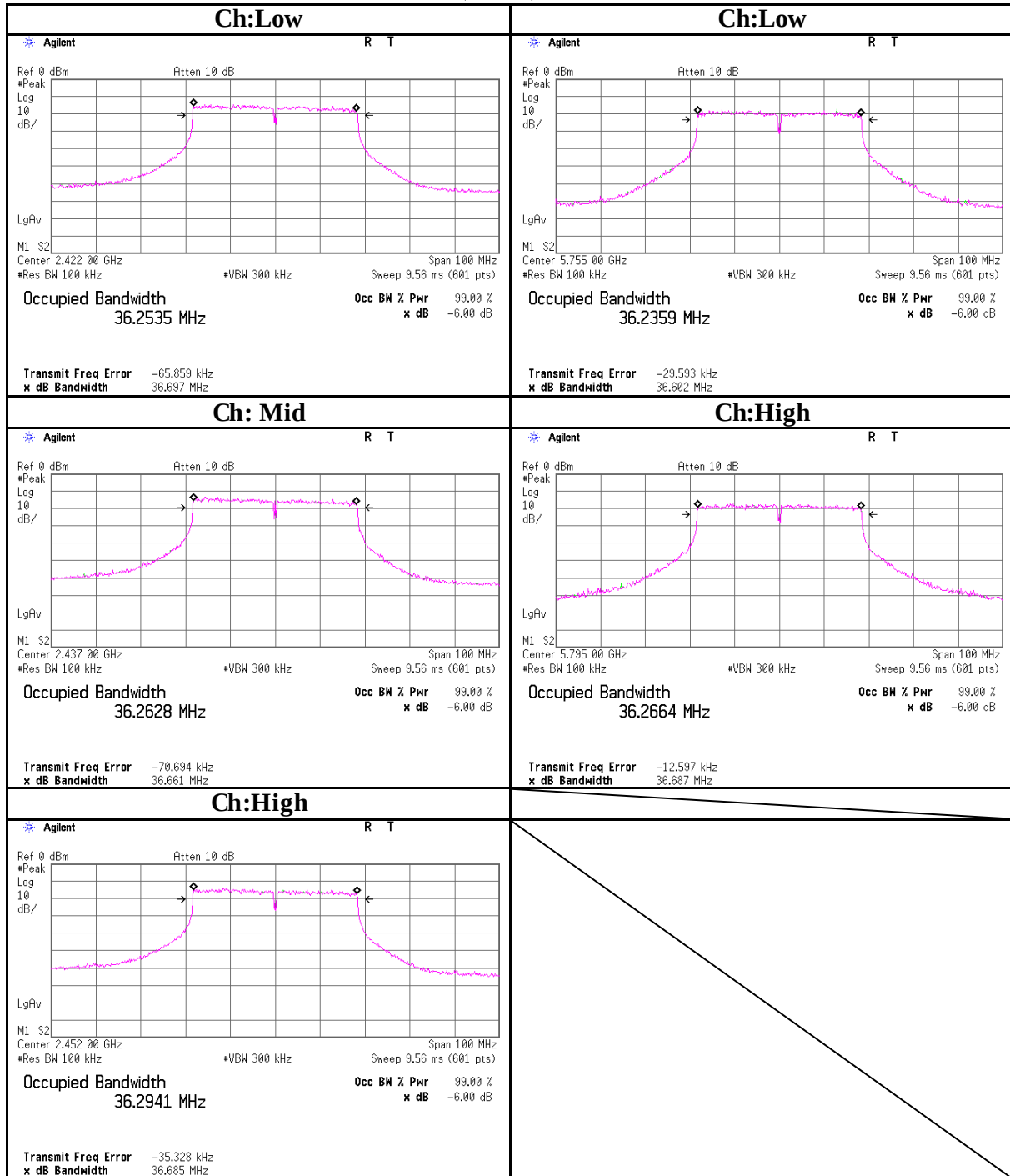
UL Japan, Inc.
Head Office EMC Lab. No.11 Measurement Room

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL NO. : SX-10WAN
SERIAL NO. : 008092011316
POWER : DC 3.3V
MODE : Tx , WLAN 11n 40HT, 270Mbps

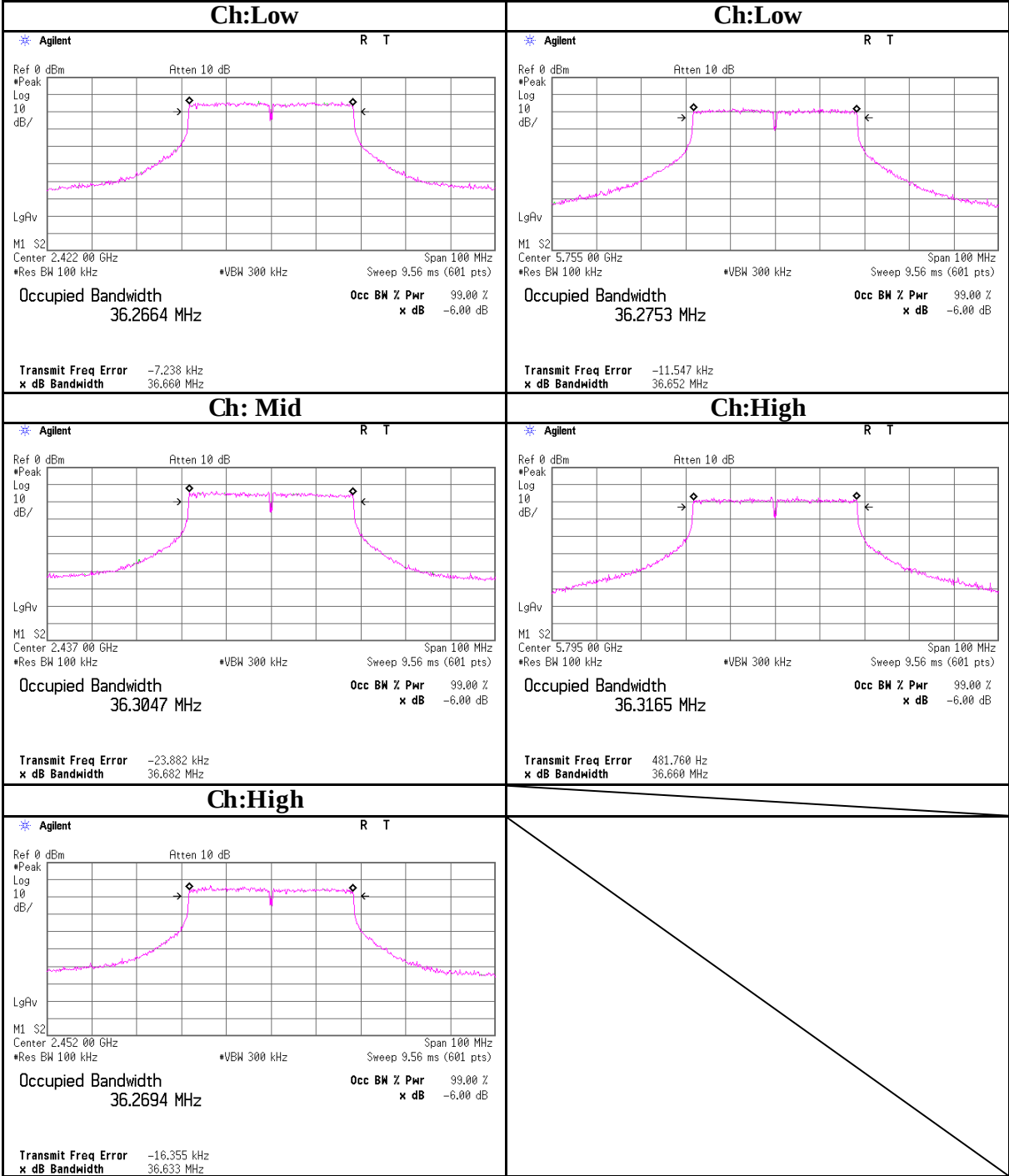
REPORT NO : 28IE0116-HO-02
REGULATION : FCC15.247(a)(2) / RSS-210 A8.2(a)
TEST DISTANCE : -
DATE : 05/22/2008
TEMPERATURE : 23 deg. C
HUMIDITY : 58 %
ENGINEER : Takahiro Hatakeda

Antenna Port	Ch	Freq. [MHz]	Result [MHz]	Limit [MHz]
Ant1	Low	2422.0	36.70	0.50
	Mid	2437.0	36.66	0.50
	High	2452.0	36.69	0.50
	Low	5755.0	36.60	0.50
	High	5795.0	36.69	0.50
Ant2	Low	2422.0	36.66	0.50
	Mid	2437.0	36.68	0.50
	High	2452.0	36.63	0.50
	Low	5755.0	36.65	0.50
	High	5795.0	36.66	0.50
Ant3	Low	2422.0	36.73	0.50
	Mid	2437.0	36.66	0.50
	High	2452.0	36.75	0.50
	Low	5755.0	36.61	0.50
	High	5795.0	36.66	0.50

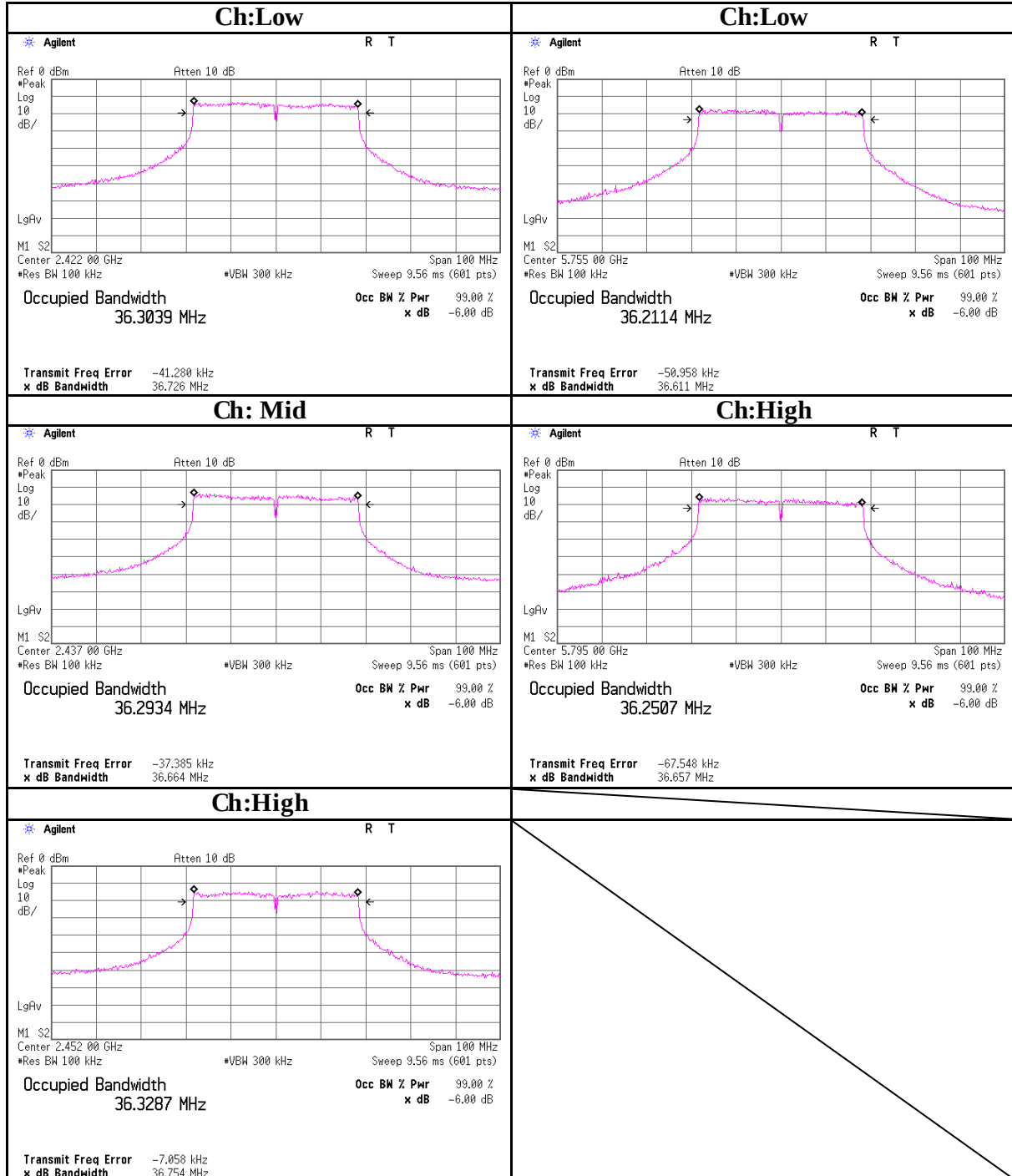
6dB Bandwidth
11n(40HT), Ant1



6dB Bandwidth
11n(40HT), Ant2



6dB Bandwidth
11n(40HT), Ant3



Maximum Peak Output Power

11b

UL Japan, Inc.
Head Office EMC Lab. No.11 Measurement Room

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL NO. : SX-10WAN
SERIAL NO. : 008092011316
POWER : DC 3.3V
MODE : Tx , WLAN 11b, 11Mbps, Ant. 3

REPORT NO : 28IE0116-HO-02
REGULATION : FCC15.247(b)(3) / RSS-210 A8.4(4)
TEST DISTANCE : -
DATE : 05/22/2008
TEMPERATURE : 23 deg. C
HUMIDITY : 58 %
ENGINEER : Takahiro Hatakeda

[IEEE802.11b] 11Mbps, Ant: 3

Antenna Port	Ch	Freq.	P/M (PK) Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant3	Low	2412.0	7.04	0.75	10.08	17.87	61.24	30.00	1000.00	12.13
	Mid	2437.0	7.49	0.75	10.08	18.32	67.92	30.00	1000.00	11.68
	High	2462.0	7.52	0.75	10.08	18.35	68.39	30.00	1000.00	11.65

(Reference data)

[IEEE802.11b] 11Mbps, Ant: 1, 2

Antenna Port	Ch	Freq.	P/M (PK) Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant1	Low	2412.0	6.95	0.75	10.08	17.78	59.98	30.00	1000.00	12.22
	Mid	2437.0	7.18	0.75	10.08	18.01	63.24	30.00	1000.00	11.99
	High	2462.0	7.50	0.75	10.08	18.33	68.08	30.00	1000.00	11.67
Ant2	Low	2412.0	6.98	0.75	10.08	17.81	60.39	30.00	1000.00	12.19
	Mid	2437.0	7.43	0.75	10.08	18.26	66.99	30.00	1000.00	11.74
	High	2462.0	7.25	0.75	10.08	18.08	64.27	30.00	1000.00	11.92

[IEEE802.11b] Ant: 3

Rate	Freq.	P/M (PK) Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
[Mbps]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
1	2437.0	7.23	0.75	10.08	18.06	63.97	30.00	1000	11.94
2	2437.0	7.43	0.75	10.08	18.26	66.99	30.00	1000	11.74
5.5	2437.0	7.34	0.75	10.08	18.17	65.61	30.00	1000	11.83
11	2437.0	7.49	0.75	10.08	18.32	67.92	30.00	1000	11.68

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

*The equipment and cables were not used for factor 0.0dB of the above table.

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

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Maximum Peak Output Power

11g

UL Japan, Inc.
Head Office EMC Lab. No.11 Measurement Room

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL NO. : SX-10WAN
SERIAL NO. : 008092011316
POWER : DC 3.3V
MODE : Tx, WLAN 11g, 54Mbps, Ant. 3

REPORT NO : 28IE0116-HO-02
REGULATION : FCC15.247(b)(3) / RSS-210 A8.4(4)
TEST DISTANCE : -
DATE : 05/22/2008
TEMPERATURE : 23 deg. C
HUMIDITY : 58 %
ENGINEER : Takahiro Hatakeda

[IEEE802.11g] : 54Mbps, Ant 3

Antenna Port	Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
						[dBm]	[mW]	[dBm]	[mW]	
Ant3	Low	2412.0	12.54	0.75	10.08	23.37	217.27	30.00	1000.00	6.63
	Mid	2437.0	12.26	0.75	10.08	23.09	203.70	30.00	1000.00	6.91
	High	2462.0	12.37	0.75	10.08	23.20	208.93	30.00	1000.00	6.80

(Reference data)

[IEEE802.11g] : 54Mbps, Ant 1, 2

Antenna Port	Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
						[dBm]	[mW]	[dBm]	[mW]	
Ant1	Low	2412.0	12.35	0.75	10.08	23.18	207.97	30.00	1000.00	6.82
	Mid	2437.0	12.24	0.75	10.08	23.07	202.77	30.00	1000.00	6.93
	High	2462.0	12.34	0.75	10.08	23.17	207.49	30.00	1000.00	6.83
Ant2	Low	2412.0	12.48	0.75	10.08	23.31	214.29	30.00	1000.00	6.69
	Mid	2437.0	12.22	0.75	10.08	23.05	201.84	30.00	1000.00	6.95
	High	2462.0	12.30	0.75	10.08	23.13	205.59	30.00	1000.00	6.87

[IEEE802.11g] : Ant 3

Rate [Mbps]	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
6	2437.0	12.16	0.75	10.08	22.99	199.07	30.00	1000	7.01
9	2437.0	12.12	0.75	10.08	22.95	197.24	30.00	1000	7.05
12	2437.0	12.04	0.75	10.08	22.87	193.64	30.00	1000	7.13
18	2437.0	12.02	0.75	10.08	22.85	192.75	30.00	1000	7.15
24	2437.0	12.13	0.75	10.08	22.96	197.70	30.00	1000	7.04
36	2437.0	12.11	0.75	10.08	22.94	196.79	30.00	1000	7.06
48	2437.0	12.20	0.75	10.08	23.03	200.91	30.00	1000	6.97
54	2437.0	12.26	0.75	10.08	23.09	203.70	30.00	1000	6.91

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

*The equipment and cables were not used for factor 0.0dB of the above table.

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

UL Japan, Inc.

Head Office EMC Lab.

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Maximum Peak Output Power

11a

UL Japan, Inc.
Head Office EMC Lab. No.11 Measurement Room

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL NO. : SX-10WAN
SERIAL NO. : 008092011316
POWER : DC 3.3V
MODE : Tx , WLAN 11a, 54Mbps, Ant.3

REPORT NO : 28IE0116-HO-02
REGULATION : FCC15.247(b)(3) / RSS-210 A8.4(4)
TEST DISTANCE : -
DATE : 05/22/2008
TEMPERATURE : 23 deg. C
HUMIDITY : 58 %
ENGINEER : Takahiro Hatakeda

IEEE802.11a : 54Mbps, Ant 3

Antenna Port	Ch	Freq.	P/M (PK) Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant3	Low	5745.0	11.62	1.39	10.14	23.15	206.54	30.00	1000.00	6.85
	Mid	5785.0	11.55	1.40	10.15	23.10	204.17	30.00	1000.00	6.90
	High	5825.0	11.60	1.41	10.15	23.16	207.01	30.00	1000.00	6.84

(Reference data)

IEEE802.11a : 54Mbps, Ant 1, 2

Antenna Port	Ch	Freq.	P/M (PK) Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant1	Low	5745.0	10.97	1.39	10.14	22.50	177.83	30.00	1000.00	7.50
	Mid	5785.0	10.71	1.40	10.15	22.26	168.27	30.00	1000.00	7.74
	High	5825.0	10.35	1.41	10.15	21.91	155.24	30.00	1000.00	8.09
Ant2	Low	5745.0	11.50	1.39	10.14	23.03	200.91	30.00	1000.00	6.97
	Mid	5785.0	11.54	1.40	10.15	23.09	203.70	30.00	1000.00	6.91
	High	5825.0	11.58	1.41	10.15	23.14	206.06	30.00	1000.00	6.86

IEEE802.11a : Ant 3

Rate	Freq.	P/M (PK) Reading	Cable Loss	Atten.	Result		Limit		Margin
[Mbps]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
6	5785.0	11.33	1.40	10.15	22.88	194.09	30.00	1000	7.12
9	5785.0	11.42	1.40	10.15	22.97	198.15	30.00	1000	7.03
12	5785.0	11.40	1.40	10.15	22.95	197.24	30.00	1000	7.05
18	5785.0	11.50	1.40	10.15	23.05	201.84	30.00	1000	6.95
24	5785.0	11.47	1.40	10.15	23.02	200.45	30.00	1000	6.98
36	5785.0	11.39	1.40	10.15	22.94	196.79	30.00	1000	7.06
48	5785.0	11.49	1.40	10.15	23.04	201.37	30.00	1000	6.96
54	5785.0	11.55	1.40	10.15	23.10	204.17	30.00	1000	6.90

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

*The equipment and cables were not used for factor 0.0dB of the above table.

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

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Head Office EMC Lab.

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Maximum Peak Output Power 11n(20HT)

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL NO. : SX-10WAN
SERIAL NO. : 008092011316
POWER : DC 3.3V
MODE : Tx . WLAN 11n 20HT. 130Mbps

UL Japan, Inc.
Head Office EMC Lab. No.11 Measurement Room
REPORT NO : 28IE0116-HO-02
REGULATION : FCC15.247(b)(3) / RSS-210 A8.4(4)
TEST DISTANCE : -
DATE : 05/22/2008
TEMPERATURE : 23 deg. C
HUMIDITY : 58 %
ENGINEER : Takahiro Hatakeda

[(IEEE802.11n(20HT)) 130Mbps]

Antenna Port	Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
						[dBm]	[mW]	[dBm]	[mW]	
Ant1+2+3	Low	2412.0	-	-	-	26.23	420.02	30.00	1000.00	3.77
	Mid	2437.0	-	-	-	26.22	419.03	30.00	1000.00	3.78
	High	2462.0	-	-	-	26.32	428.19	30.00	1000.00	3.68

Antenna Port	Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
						[dBm]	[mW]	[dBm]	[mW]	
Ant1	Low	2412.0	10.71	0.75	10.08	21.54	142.56	30.00	1000.00	8.46
	Mid	2437.0	10.65	0.75	10.08	21.48	140.60	30.00	1000.00	8.52
	High	2462.0	10.84	0.75	10.08	21.67	146.89	30.00	1000.00	8.33
Ant2	Low	2412.0	10.71	0.75	10.08	21.54	142.56	30.00	1000.00	8.46
	Mid	2437.0	10.73	0.75	10.08	21.56	143.22	30.00	1000.00	8.44
	High	2462.0	10.88	0.75	10.08	21.71	148.25	30.00	1000.00	8.29
Ant3	Low	2412.0	10.47	0.75	10.08	21.30	134.90	30.00	1000.00	8.70
	Mid	2437.0	10.48	0.75	10.08	21.31	135.21	30.00	1000.00	8.69
	High	2462.0	10.41	0.75	10.08	21.24	133.05	30.00	1000.00	8.76

(Reference data)

[(IEEE802.11n(20HT)): Ant 2]

Rate [Mbps]	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
6.5 (MCS 0)	2437.0	10.70	0.75	10.08	21.53	142.23	30.00	1000	8.47
13.0 (MCS 1)	2437.0	10.56	0.75	10.08	21.39	137.72	30.00	1000	8.61
19.5 (MCS 2)	2437.0	10.71	0.75	10.08	21.54	142.56	30.00	1000	8.46
26.0 (MCS 3)	2437.0	10.52	0.75	10.08	21.35	136.46	30.00	1000	8.65
39.0 (MCS 4)	2437.0	10.68	0.75	10.08	21.51	141.58	30.00	1000	8.49
52.0 (MCS 5)	2437.0	10.70	0.75	10.08	21.53	142.23	30.00	1000	8.47
58.5 (MCS 6)	2437.0	10.61	0.75	10.08	21.44	139.32	30.00	1000	8.56
65.0 (MCS 7)	2437.0	10.69	0.75	10.08	21.52	141.91	30.00	1000	8.48
13.0 (MCS 8)	2437.0	10.71	0.75	10.08	21.54	142.56	30.00	1000	8.46
26.0 (MCS 9)	2437.0	10.51	0.75	10.08	21.34	136.14	30.00	1000	8.66
39.0 (MCS 10)	2437.0	10.70	0.75	10.08	21.53	142.23	30.00	1000	8.47
52.0 (MCS 11)	2437.0	10.55	0.75	10.08	21.38	137.40	30.00	1000	8.62
78.0 (MCS 12)	2437.0	10.57	0.75	10.08	21.40	138.04	30.00	1000	8.60
104.0 (MCS 13)	2437.0	10.69	0.75	10.08	21.52	141.91	30.00	1000	8.48
117.0 (MCS 14)	2437.0	10.70	0.75	10.08	21.53	142.23	30.00	1000	8.47
130.0 (MCS 15)	2437.0	10.73	0.75	10.08	21.56	143.22	30.00	1000	8.44

Samole Calculation:

Result = Reading + Cable Loss + Attenuator Loss

*The equipment and cables were not used for factor 0.0dB of the above table.

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

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Maximum Peak Output Power 11n(20HT)

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL NO. : SX-10WAN
SERIAL NO. : 008092011316
POWER : DC 3.3V
MODE : Tx, WLAN 11n 20HT, 130Mbps

UL Japan, Inc.
Head Office EMC Lab. No.11 Measurement Room
REPORT NO : 28IE0116-HO-02
REGULATION : FCC15.247(b)(3) / RSS-210 A8.4(4)
TEST DISTANCE : -
DATE : 05/22/2008
TEMPERATURE : 23 deg. C
HUMIDITY : 58 %
ENGINEER : Takahiro Hatakeda

[IEEE802.11n(20HT)] 130Mbps

Antenna Port	Ch	Freq.	P/M (PK) Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant1+2+3	Low	5745.0	-	-	-	25.96	394.39	30.00	1000.00	4.04
	Mid	5785.0	-	-	-	25.85	384.54	30.00	1000.00	4.15
	High	5825.0	-	-	-	25.83	383.12	30.00	1000.00	4.17

Antenna Port	Ch	Freq.	P/M (PK) Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant1	Low	5745.0	9.53	1.39	10.14	21.06	127.64	30.00	1000.00	8.94
	Mid	5785.0	9.37	1.40	10.15	20.92	123.59	30.00	1000.00	9.08
	High	5825.0	9.18	1.41	10.15	20.74	118.58	30.00	1000.00	9.26
Ant2	Low	5745.0	9.80	1.39	10.14	21.33	135.83	30.00	1000.00	8.67
	Mid	5785.0	9.65	1.40	10.15	21.20	131.83	30.00	1000.00	8.80
	High	5825.0	9.85	1.41	10.15	21.41	138.36	30.00	1000.00	8.59
Ant3	Low	5745.0	9.64	1.39	10.14	21.17	130.92	30.00	1000.00	8.83
	Mid	5785.0	9.56	1.40	10.15	21.11	129.12	30.00	1000.00	8.89
	High	5825.0	9.45	1.41	10.15	21.01	126.18	30.00	1000.00	8.99

(Reference data)

[IEEE802.11n(20HT)]: Ant 2

Rate	Freq.	P/M (PK) Reading	Cable Loss	Atten.	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	
6.5 (MCS 0)	5785.0	9.34	1.40	10.15	20.89	122.74	30.00	1000	9.11
13.0 (MCS 1)	5785.0	9.35	1.40	10.15	20.90	123.03	30.00	1000	9.10
19.5 (MCS 2)	5785.0	9.57	1.40	10.15	21.12	129.42	30.00	1000	8.88
26.0 (MCS 3)	5785.0	9.39	1.40	10.15	20.94	124.17	30.00	1000	9.06
39.0 (MCS 4)	5785.0	9.43	1.40	10.15	20.98	125.31	30.00	1000	9.02
52.0 (MCS 5)	5785.0	9.51	1.40	10.15	21.06	127.64	30.00	1000	8.94
58.5 (MCS 6)	5785.0	9.32	1.40	10.15	20.87	122.18	30.00	1000	9.13
65.0 (MCS 7)	5785.0	9.47	1.40	10.15	21.02	126.47	30.00	1000	8.98
13.0 (MCS 8)	5785.0	9.54	1.40	10.15	21.09	128.53	30.00	1000	8.91
26.0 (MCS 9)	5785.0	9.58	1.40	10.15	21.13	129.72	30.00	1000	8.87
39.0 (MCS 10)	5785.0	9.39	1.40	10.15	20.94	124.17	30.00	1000	9.06
52.0 (MCS 11)	5785.0	9.62	1.40	10.15	21.17	130.92	30.00	1000	8.83
78.0 (MCS 12)	5785.0	9.60	1.40	10.15	21.15	130.32	30.00	1000	8.85
104.0 (MCS 13)	5785.0	9.55	1.40	10.15	21.10	128.82	30.00	1000	8.90
117.0 (MCS 14)	5785.0	9.57	1.40	10.15	21.12	129.42	30.00	1000	8.88
130.0 (MCS 15)	5785.0	9.65	1.40	10.15	21.20	131.83	30.00	1000	8.80

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

*The equipment and cables were not used for factor 0.0dB of the above table.

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

UL Japan, Inc.

Head Office EMC Lab.

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Maximum Peak Output Power 11n(40HT)

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL NO. : SX-10WAN
SERIAL NO. : 008092011316
POWER : DC 3.3V
MODE : Tx, WLAN 11n 40HT, 270Mbps

UL Japan, Inc.
Head Office EMC Lab. No.11 Measurement Room
REPORT NO : 28IE0116-HO-02
REGULATION : FCC15.247(b)(3) / RSS-210 A8.4(4)
TEST DISTANCE : -
DATE : 05/22/2008
TEMPERATURE : 23 deg. C
HUMIDITY : 58 %
ENGINEER : Takahiro Hatakeda

[IEEE802.11n(40HT)] 270Mbps

Antenna Port	Ch	Freq.	P/M (PK) Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant1+2+3	Low	2422.0	-	-	-	26.63	459.98	30.00	1000.00	3.37
	Mid	2437.0	-	-	-	26.57	454.39	30.00	1000.00	3.43
	High	2452.0	-	-	-	26.60	456.74	30.00	1000.00	3.40

Antenna Port	Ch	Freq.	P/M (PK) Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant1	Low	2422.0	11.13	0.75	10.08	21.96	157.04	30.00	1000.00	8.04
	Mid	2437.0	11.06	0.75	10.08	21.89	154.53	30.00	1000.00	8.11
	High	2452.0	11.09	0.75	10.08	21.92	155.60	30.00	1000.00	8.08
Ant2	Low	2422.0	11.14	0.75	10.08	21.97	157.40	30.00	1000.00	8.03
	Mid	2437.0	11.11	0.75	10.08	21.94	156.31	30.00	1000.00	8.06
	High	2452.0	11.09	0.75	10.08	21.92	155.60	30.00	1000.00	8.08
Ant3	Low	2422.0	10.80	0.75	10.08	21.63	145.55	30.00	1000.00	8.37
	Mid	2437.0	10.74	0.75	10.08	21.57	143.55	30.00	1000.00	8.43
	High	2452.0	10.80	0.75	10.08	21.63	145.55	30.00	1000.00	8.37

(Reference data)

[IEEE802.11n(40HT)]: Ant 2

Rate	Freq.	P/M (PK) Reading	Cable Loss	Atten.	Result		Limit		Margin
[Mbps]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
13.5 (MCS 0)	2437.0	11.04	0.75	10.08	21.87	153.82	30.00	1000	8.13
27.0 (MCS 1)	2437.0	10.99	0.75	10.08	21.82	152.05	30.00	1000	8.18
40.5 (MCS 2)	2437.0	11.03	0.75	10.08	21.86	153.46	30.00	1000	8.14
54.0 (MCS 3)	2437.0	11.08	0.75	10.08	21.91	155.24	30.00	1000	8.09
81.0 (MCS 4)	2437.0	11.04	0.75	10.08	21.87	153.82	30.00	1000	8.13
108.0 (MCS 5)	2437.0	10.97	0.75	10.08	21.80	151.36	30.00	1000	8.20
121.5 (MCS 6)	2437.0	11.10	0.75	10.08	21.93	155.96	30.00	1000	8.07
135.0 (MCS 7)	2437.0	11.06	0.75	10.08	21.89	154.53	30.00	1000	8.11
27.0 (MCS 8)	2437.0	10.97	0.75	10.08	21.80	151.36	30.00	1000	8.20
54.0 (MCS 9)	2437.0	10.89	0.75	10.08	21.72	148.59	30.00	1000	8.28
81.0 (MCS 10)	2437.0	11.05	0.75	10.08	21.88	154.17	30.00	1000	8.12
108.0 (MCS 11)	2437.0	11.09	0.75	10.08	21.92	155.60	30.00	1000	8.08
162.0 (MCS 12)	2437.0	11.02	0.75	10.08	21.85	153.11	30.00	1000	8.15
216.0 (MCS 13)	2437.0	10.91	0.75	10.08	21.74	149.28	30.00	1000	8.26
243.0 (MCS 14)	2437.0	11.02	0.75	10.08	21.85	153.11	30.00	1000	8.15
270.0 (MCS 15)	2437.0	11.11	0.75	10.08	21.94	156.31	30.00	1000	8.06

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

*The equipment and cables were not used for factor 0.0dB of the above table.

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

Maximum Peak Output Power 11n(40HT)

UL Japan, Inc.
Head Office EMC Lab. No.11 Measurement Room

COMPANY : silex technology, Inc.
EQUIPMENT : MiniPCI Wireless LAN Board
MODEL NO. : SX-10WAN
SERIAL NO. : 008092011316
POWER : DC 3.3V
MODE : Tx , WLAN 11n 40HT, 270Mbps

REPORT NO : 28IE0116-HO-02
REGULATION : FCC15.247(b)(3) / RSS-210 A8.4(4)
TEST DISTANCE : -
DATE : 05/22/2008
TEMPERATURE : 23 deg. C
HUMIDITY : 58 %
ENGINEER : Takahiro Hatakeda

IEEE802.11n(40HT) 270Mbps

Antenna Port	Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin
						[dBm]	[mW]	[dBm]	[mW]	[dB]
Ant1+2+3	Low	5755.0	-	-	-	25.58	361.15	30.00	1000.00	4.42
	High	5795.0	-	-	-	25.42	348.17	30.00	1000.00	4.58

Antenna Port	Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin
						[dBm]	[mW]	[dBm]	[mW]	[dB]
Ant1	Low	5755.0	8.98	1.39	10.14	20.51	112.46	30.00	1000.00	9.49
	High	5795.0	8.86	1.40	10.15	20.41	109.90	30.00	1000.00	9.59
Ant2	Low	5755.0	9.52	1.39	10.14	21.05	127.35	30.00	1000.00	8.95
	High	5795.0	9.15	1.40	10.15	20.70	117.49	30.00	1000.00	9.30
Ant3	Low	5755.0	9.31	1.39	10.14	20.84	121.34	30.00	1000.00	9.16
	High	5795.0	9.27	1.40	10.15	20.82	120.78	30.00	1000.00	9.18

(Reference data)

IEEE802.11n(40HT): Ant 2

Rate [Mbps]	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
13.5 (MCS 0)	5755.0	9.40	1.39	10.14	20.93	123.88	30.00	1000	9.07
27.0 (MCS 1)	5755.0	9.39	1.39	10.14	20.92	123.59	30.00	1000	9.08
40.5 (MCS 2)	5755.0	9.44	1.39	10.14	20.97	125.03	30.00	1000	9.03
54.0 (MCS 3)	5755.0	9.41	1.39	10.14	20.94	124.17	30.00	1000	9.06
81.0 (MCS 4)	5755.0	9.30	1.39	10.14	20.83	121.06	30.00	1000	9.17
108.0 (MCS 5)	5755.0	9.39	1.39	10.14	20.92	123.59	30.00	1000	9.08
121.5 (MCS 6)	5755.0	9.36	1.39	10.14	20.89	122.74	30.00	1000	9.11
135.0 (MCS 7)	5755.0	9.49	1.39	10.14	21.02	126.47	30.00	1000	8.98
27.0 (MCS 8)	5755.0	9.34	1.39	10.14	20.87	122.18	30.00	1000	9.13
54.0 (MCS 9)	5755.0	9.40	1.39	10.14	20.93	123.88	30.00	1000	9.07
81.0 (MCS 10)	5755.0	9.39	1.39	10.14	20.92	123.59	30.00	1000	9.08
108.0 (MCS 11)	5755.0	9.47	1.39	10.14	21.00	125.89	30.00	1000	9.00
162.0 (MCS 12)	5755.0	9.36	1.39	10.14	20.89	122.74	30.00	1000	9.11
216.0 (MCS 13)	5755.0	9.39	1.39	10.14	20.92	123.59	30.00	1000	9.08
243.0 (MCS 14)	5755.0	9.38	1.39	10.14	20.91	123.31	30.00	1000	9.09
270.0 (MCS 15)	5755.0	9.52	1.39	10.14	21.05	127.35	30.00	1000	8.95

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

*The equipment and cables were not used for factor 0.0dB of the above table.

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

Radiated Spurious Emission (below 1GHz)
11b Tx Mch(2437MHz) 11Mbps, Used Antenna for Tx: Antenna 3

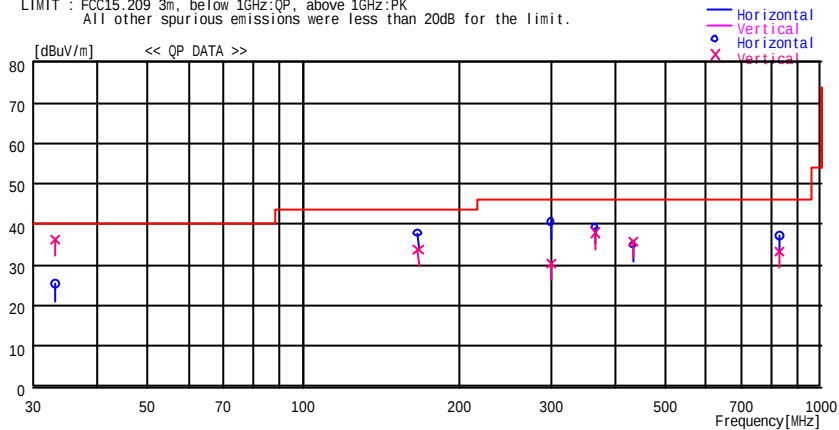
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/04/06

Company : silex technology, Inc. Report No. : 28IE0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (Jig input AC120V / 60Hz)
Model No. : SX-10WAN + TT98061 Temp./Humi. : 24 deg.C. / 39 %
Serial No. : 008092011314 + 001, 002, 003 Engineer : Takahiro Hatakeda

Mode / Remarks : WLAN 11b,Tx,2437MHz,11Mbps,Ant3 / Module-axis H:Y, V:Y / Antenna-axis H:X0, V:X90

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna	Loss	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		Factor	Gain	[dBuV/m]	[Deg.]	[cm]		[dBuV/m]	[dB]	
33.333	33.3	QP	16.9	-25.0	25.2	26	292	Hori.	40.0	14.8	
33.333	44.5	QP	16.9	-25.0	36.4	128	100	Vert.	40.0	3.6	
166.666	45.5	QP	15.4	-23.1	37.8	92	106	Hori.	43.5	5.7	
166.666	41.7	QP	15.4	-23.1	34.0	272	100	Vert.	43.5	9.5	
300.001	36.2	QP	16.3	-22.0	30.5	289	100	Vert.	46.0	15.5	
300.001	46.3	QP	16.3	-22.0	40.6	108	100	Hori.	46.0	5.4	
366.666	43.5	QP	17.3	-21.6	39.2	217	100	Hori.	46.0	6.8	
366.666	42.3	QP	17.3	-21.6	38.0	100	121	Vert.	46.0	8.0	
433.331	37.8	QP	18.3	-21.1	35.0	210	100	Hori.	46.0	11.0	
433.331	38.7	QP	18.3	-21.1	35.9	221	100	Vert.	46.0	10.1	
833.329	32.1	QP	23.6	-18.5	37.2	231	100	Hori.	46.0	8.8	
833.329	28.3	QP	23.6	-18.5	33.4	141	100	Vert.	46.0	12.6	

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

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

Radiated Spurious Emission (below 1GHz)

11b Tx Lch(2412MHz) 11Mbps, Used Antenna for Tx: Antenna 3

The noise level for this mode was equivalence noise level with 11b Tx Mch(2437MHz) 11Mbps and it was verified to be satisfied section 15.209 limit.

Radiated Spurious Emission (below 1GHz)

11b Tx Hch(2462MHz) 11Mbps, Used Antenna for Tx: Antenna 3

The noise level for this mode was equivalence noise level with 11b Tx Mch(2437MHz) 11Mbps and it was verified to be satisfied section 15.209 limit.

UL Japan, Inc.

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Radiated Spurious Emission (below 1GHz)
11g Tx Mch(2437MHz) 54Mbps, Used Antenna for Tx: Antenna 3

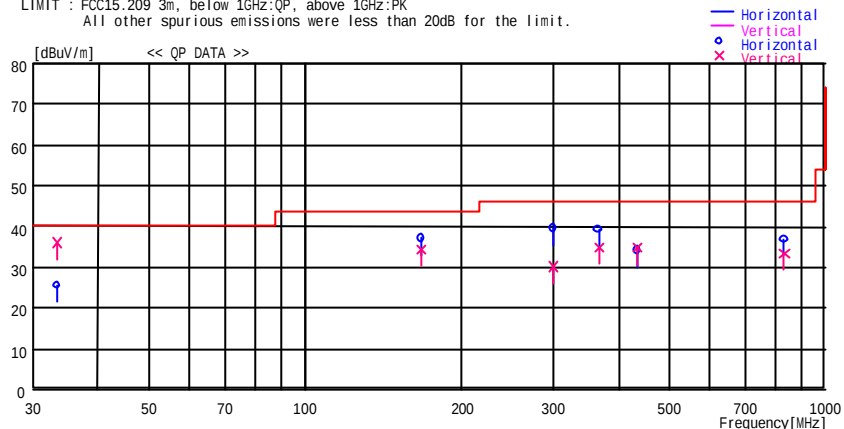
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/04/07

Company : silex technology, Inc. Report No. : 28IE0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (Jig input AC120V / 60Hz)
Model No. : SX-10WAN + TT98061 Temp./Humi. : 24 deg.C. / 39 %
Serial No. : 008092011314 + 001, 002, 003 Engineer : Takahiro Hatakeda

Mode / Remarks : WLAN 11g,Tx,2437MHz,54Mbps,Ant3 / Module-axis H:Y, V:Y / Antenna-axis H:X0, V:X90

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
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	33.7	OP	16.9	-25.0	25.6	18	301	Hori	40.0	14.4	
33.333	44.1	OP	16.9	-25.0	36.0	112	100	Vert	40.0	4.0	
166.666	44.7	OP	15.4	-23.1	37.0	95	189	Hori	43.5	6.5	
166.666	42.0	OP	15.4	-23.1	34.3	261	100	Vert	43.5	9.2	
300.001	35.9	OP	16.3	-22.0	30.2	294	100	Vert	46.0	15.8	
300.001	45.3	OP	16.3	-22.0	39.6	117	100	Hori	46.0	6.4	
366.666	43.6	OP	17.3	-21.6	39.3	213	100	Hori	46.0	6.7	
366.666	39.3	OP	17.3	-21.6	35.0	96	124	Vert	46.0	11.0	
433.332	36.9	OP	18.3	-21.1	34.1	221	100	Hori	46.0	11.9	
433.332	37.5	OP	18.3	-21.1	34.7	203	100	Vert	46.0	11.3	
833.330	31.7	OP	23.6	-18.5	36.8	227	100	Hori	46.0	9.2	
833.330	28.3	OP	23.6	-18.5	33.4	155	100	Vert	46.0	12.6	

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

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

Radiated Spurious Emission (below 1GHz)

11g Tx Lch(2412MHz) 54Mbps, Used Antenna for Tx: Antenna 3

The noise level for this mode was equivalence noise level with 11g Tx Mch(2437MHz) 54Mbps and it was verified to be satisfied section 15.209 limit.

Radiated Spurious Emission (below 1GHz)

11g Tx Hch(2462MHz) 54Mbps, Used Antenna for Tx: Antenna 3

The noise level for this mode was equivalence noise level with 11g Tx Mch(2437MHz) 54Mbps and it was verified to be satisfied section 15.209 limit.

UL Japan, Inc.

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Radiated Spurious Emission (below 1GHz)
11a Tx Mch(5785MHz) 54Mbps, Used Antenna for Tx: Antenna 3

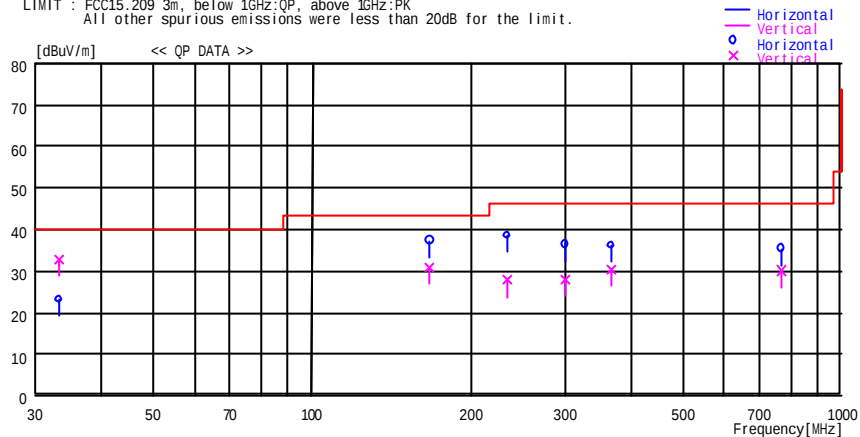
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2009/04/07

Company : sillex technology, Inc. Report No. : 28IE0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (Jig input AC120V / 60Hz)
Model No. : SX-10WAN + TT98061 Temp./Humi. : 20 deg.C. / 42 %
Serial No. : 008092011314 + 001, 002, 003 Engineer : Kazufumi Nakai

Mode / Remarks : WLAN 11a,Tx,5785MHz,54Mbps,Ant3 / Module-axis H:Y, V:Y / Antenna-axis H:X0, V:X90

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
33.334	27.4	OP	17.6	-21.8	23.2	168	311	Hori.	40.0	16.8	
33.341	36.9	OP	17.6	-21.8	32.7	316	100	Vert.	40.0	7.3	
166.666	41.8	OP	15.8	-20.3	37.3	308	164	Hori.	43.5	6.2	
166.667	35.5	OP	15.8	-20.3	31.0	81	100	Vert.	43.5	12.5	
233.331	41.0	OP	17.0	-19.5	38.5	166	135	Hori.	46.0	7.5	
233.335	30.3	OP	17.0	-19.5	27.8	85	100	Vert.	46.0	18.2	
300.002	42.5	OP	12.8	-18.9	36.4	359	100	Hori.	46.0	9.6	
300.002	34.2	OP	12.8	-18.9	28.1	295	100	Vert.	46.0	17.9	
366.665	33.3	OP	16.1	-19.0	30.4	182	100	Vert.	46.0	15.6	
366.674	39.0	OP	16.1	-19.0	36.1	359	100	Hori.	46.0	9.9	
766.658	32.0	OP	21.1	-17.8	35.3	121	108	Hori.	46.0	10.7	
766.659	26.8	QP	21.1	-17.8	30.1	274	100	Vert.	46.0	15.9	

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

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

Radiated Spurious Emission (below 1GHz)

11a Tx Lch(5745MHz) 54Mbps, Used Antenna for Tx: Antenna 3

The noise level for this mode was equivalence noise level with 11a Tx Mch(5785MHz) 54Mbps and it was verified to be satisfied section 15.209 limit.

Radiated Spurious Emission (below 1GHz)

11a Tx Hch(5825MHz) 54Mbps, Used Antenna for Tx: Antenna 3

The noise level for this mode was equivalence noise level with 11a Tx Mch(5785MHz) 54Mbps and it was verified to be satisfied section 15.209 limit.

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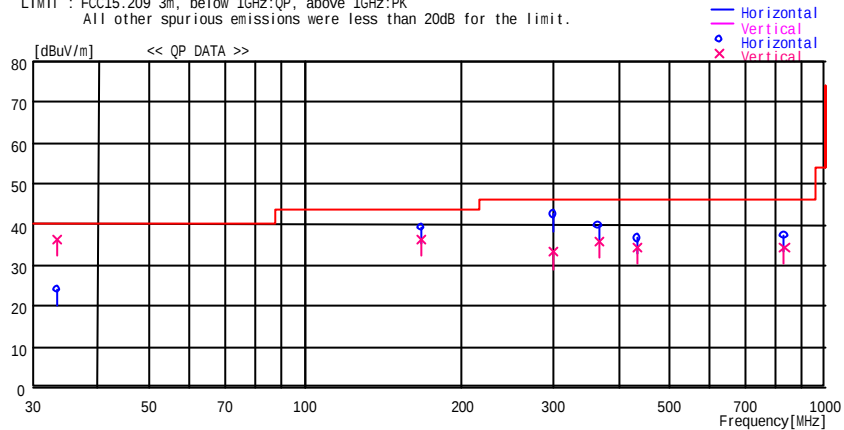
Radiated Spurious Emission (below 1GHz)
11n(20HT) Tx Mch(2437MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/04/04

Company : silex technology, Inc. Report No. : 281E0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (Jig input AC120V / 60Hz)
Model No. : SX-10WAN + TT98061 Temp./Humi. : 23 deg.C. / 38 %
Serial No. : 008092011314 + 001, 002, 003 Engineer : Takahiro Hatakeda
Mode / Remarks : WLAN 11n 20HT, Tx, 2437MHz, 130Mbps, Ant1, 2, 3 / Module-axis H:Y, V:Y / Antenna-axis H:X0, V:X90

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
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	32.2	NP	16.9	-25.0	24.1	238	311	Hori	40.0	15.9	
33.333	44.5	QP	16.9	-25.0	36.4	121	100	Vert	40.0	3.6	
166.666	47.1	NP	15.4	-23.1	39.4	103	106	Hori	43.5	4.1	
166.666	44.1	QP	15.4	-23.1	36.4	271	100	Vert	43.5	7.1	
300.001	38.8	NP	16.3	-22.0	33.1	285	100	Vert	46.0	12.9	
300.001	48.1	QP	16.3	-22.0	42.4	121	100	Hori	46.0	3.6	
366.667	44.1	NP	17.3	-21.6	39.8	237	100	Hori	46.0	6.2	
366.667	40.2	QP	17.3	-21.6	35.9	120	105	Vert	46.0	10.1	
433.330	39.5	QP	18.3	-21.1	36.7	238	100	Hori	46.0	9.3	
433.330	37.2	QP	18.3	-21.1	34.4	191	100	Vert	46.0	11.6	
833.330	32.2	QP	23.6	-18.5	37.3	231	100	Hori	46.0	8.7	
833.330	29.3	QP	23.6	-18.5	34.4	309	100	Vert	46.0	11.6	

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

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

Radiated Spurious Emission (below 1GHz)

11n(20HT) Tx Hch(2412MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

The noise level for this mode was equivalence noise level with 11n Tx(20HT) Mch(2437MHz) 130Mbps and it was verified to be satisfied section 15.209 limit.

Radiated Spurious Emission (below 1GHz)

11n(20HT) Tx Hch(2462MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

The noise level for this mode was equivalence noise level with 11n Tx(20HT) Mch(2437MHz) 130Mbps and it was verified to be satisfied section 15.209 limit.

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Radiated Spurious Emission (below 1GHz)
11n(20HT) Tx Mch(5785MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

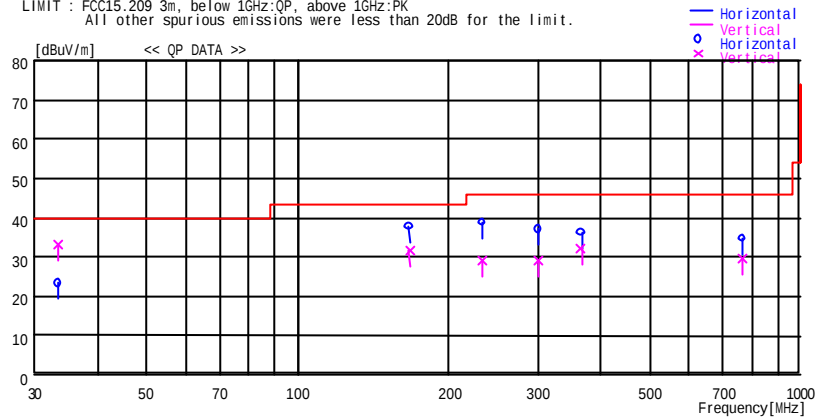
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2009/04/07

Company : silex technology, Inc. Report No. : 28IE0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (Jig input AC120V / 60Hz)
Model No. : SX-10WAN + TT98061 Temp./Humi. : 20 deg.C. / 42 %
Serial No. : 008092011314 + 001, 002, 003 Engineer : Kazufumi Nakai

Mode / Remarks: WLAN 11n20,Tx,5785MHz,130Mbps,Ant1,2,3 / Module-axis H:Y, V:Y / Antenna-axis H:X0, V:X90

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna	Loss	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		Factor	Gain	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
33.333	27.5	QP	17.6	-21.8	23.3	185	267	Hori.	40.0	16.7	
33.336	37.3	QP	17.6	-21.8	33.1	74	100	Vert.	40.0	6.9	
166.667	47.2	QP	15.8	-20.3	37.7	336	166	Hori.	43.5	5.8	
166.669	36.0	QP	15.8	-20.3	31.5	130	100	Vert.	43.5	12.0	
233.335	31.6	QP	17.0	-19.5	29.1	123	100	Vert.	46.0	16.9	
233.337	41.3	QP	17.0	-19.5	38.8	168	159	Hori.	46.0	7.2	
300.002	35.2	QP	12.8	-18.9	29.1	67	100	Vert.	46.0	16.9	
300.003	43.1	QP	12.8	-18.9	37.0	359	100	Hori.	46.0	9.0	
366.490	35.0	QP	16.1	-19.0	32.1	195	135	Vert.	46.0	13.9	
366.665	39.0	QP	16.1	-19.0	36.1	350	100	Hori.	46.0	9.9	
766.660	31.3	QP	21.1	-17.8	34.6	124	115	Hori.	46.0	11.4	
766.669	26.4	QP	21.1	-17.8	29.7	217	100	Vert.	46.0	16.3	

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

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

Radiated Spurious Emission (below 1GHz)

11n(20HT) Tx Lch(5745MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

The noise level for this mode was equivalence noise level with 11n(20HT) Tx Mch(5785MHz) 130Mbps and it was verified to be satisfied section 15.209 limit.

Radiated Spurious Emission (below 1GHz)

11n(20HT) Tx Hch(5825MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

The noise level for this mode was equivalence noise level with 11n(20HT) Tx Mch(5785MHz) 130Mbps and it was verified to be satisfied section 15.209 limit.

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Radiated Spurious Emission (below 1GHz)
11n(40HT) Tx Mch(2437MHz) 270Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

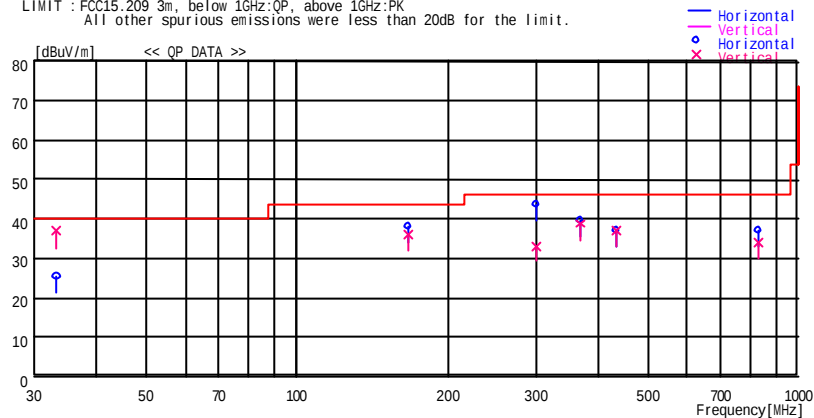
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/04/04

Company : silex technology, Inc. Report No. : 28IE0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (Jig input AC120V / 60Hz)
Model No. : SX-10WAN + TT98061 Temp./Humi. : 23 deg.C. / 38 %
Serial No. : 008092011314 + 001, 002, 003 Engineer : Takahiro Hatakeda

Mode / Remarks: WLAN 11n 40HT, Tx, 2437MHz, 270Mbps, Ant1, 2, 3 / Module-axis H:Y, V:Y / Antenna-axis H:X0, V:X90

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB]	Loss Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
33.334	23.6	QP	16.9	-25.0	25.5	279	312	Hori.	40.0	14.5	
33.334	44.9	QP	16.9	-25.0	36.8	98	100	Vert.	40.0	3.2	
166.666	45.9	QP	15.4	-23.1	38.2	255	191	Hori.	43.5	5.3	
166.666	43.7	QP	15.4	-23.1	36.0	277	100	Vert.	43.5	7.5	
300.001	38.9	QP	16.3	-22.0	33.2	277	100	Vert.	46.0	12.8	
300.001	49.4	QP	16.3	-22.0	43.7	108	100	Hori.	46.0	2.3	
366.666	44.0	QP	17.3	-21.6	39.7	223	100	Hori.	46.0	6.3	
366.666	43.1	QP	17.3	-21.6	38.8	120	108	Vert.	46.0	7.2	
433.330	40.0	QP	18.3	-21.1	37.2	231	100	Hori.	46.0	8.8	
433.330	39.9	QP	18.3	-21.1	37.1	185	100	Vert.	46.0	8.9	
833.329	37.0	QP	23.6	-18.5	37.1	229	100	Hori.	46.0	8.9	
833.329	29.0	QP	23.6	-18.5	34.1	310	100	Vert.	46.0	11.9	

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

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

Radiated Spurious Emission (below 1GHz)

11n(40HT) Tx Lch(2422MHz) 270Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

The noise level for this mode was equivalence noise level with 11n(40HT) Tx Mch(2437MHz) 270Mbps and it was verified to be satisfied section 15.209 limit.

Radiated Spurious Emission (below 1GHz)

11n(40HT) Tx Hch(2452MHz) 270Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

The noise level for this mode was equivalence noise level with 11n(40HT) Tx Mch(2437MHz) 270Mbps and it was verified to be satisfied section 15.209 limit.

Radiated Spurious Emission (below 1GHz)
11n(40HT) Tx Hch(5795MHz) 270Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

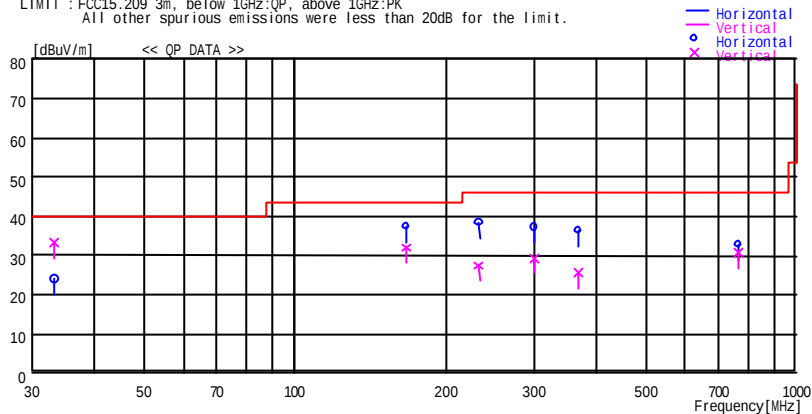
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2009/04/07

Company : silex technology, Inc. Report No. : 28IE0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (Jig input AC120V / 60Hz)
Model No. : SX-10WAN + TT98061 Temp./Humi. : 23 deg.C. / 42 %
Serial No. : 008092011314 + 001, 002, 003 Engineer : Takeshi Choda

Mode / Remarks: WLAN 11n40, Tx, 5795MHz, 270Mbps, Ant1,2,3 / Module-axis H:Y, V:Y / Antenna-axis H:X0, V:X90

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[m]		[dBuV/m]	[dB]	
33.334	28.1	QP	17.6	-21.8	23.9	183	275	Hori.	40.0	16.1	
33.334	37.7	QP	17.6	-21.8	33.5	89	100	Vert.	40.0	6.5	
166.666	41.8	QP	15.8	-20.3	37.3	327	187	Hori.	43.5	6.2	
166.666	36.5	QP	15.8	-20.3	32.0	134	100	Vert.	43.5	11.5	
233.333	40.8	QP	17.0	-19.5	38.3	177	147	Hori.	46.0	7.7	
233.333	29.9	QP	17.0	-19.5	27.4	141	109	Vert.	46.0	18.6	
300.000	35.5	QP	12.8	-18.9	29.4	291	100	Vert.	46.0	16.6	
300.000	43.3	QP	12.8	-18.9	37.2	192	113	Hori.	46.0	8.8	
366.666	28.7	QP	16.1	-19.0	25.8	153	141	Vert.	46.0	20.2	
366.666	39.3	QP	16.1	-19.0	36.4	193	100	Hori.	46.0	9.6	
766.659	29.6	QP	21.1	-17.8	32.9	119	119	Hori.	46.0	13.1	
766.660	27.5	QP	21.1	-17.8	30.8	191	119	Vert.	46.0	15.2	

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

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

Radiated Spurious Emission (below 1GHz)

11n(40HT) Tx Lch(5755MHz) 270Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

The noise level for this mode was equivalence noise level with 11n(40HT) Tx Hch(5795MHz) 270Mbps and it was verified to be satisfied section 15.209 limit.

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Radiated Spurious Emission (below 1GHz)
11b/g Rx Mch(2437MHz), Used Antenna for Rx: Antenna 3

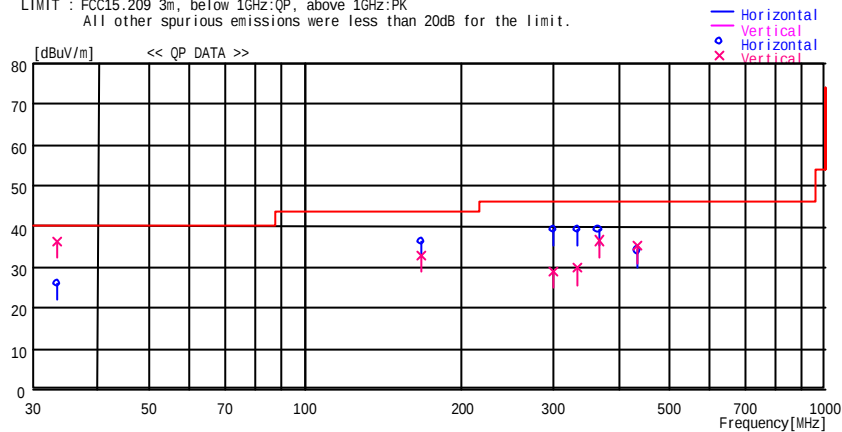
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/04/07

Company : silex technology, Inc. Report No. : 281E0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (Jig input AC120V / 60Hz)
Model No. : SX-10WAN + TT98061 Temp./Humi. : 24 deg.C. / 39 %
Serial No. : 008092011314 + 001, 002, 003 Engineer : Takahiro Hatakeda

Mode / Remarks : WLAN 11b/g,Rx,2437MHz,Ant3 / Module-axis H:Y, V:Y / Antenna-axis H:X0, V:X90

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		Factor	Gain	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
33.333	34.1	QP	16.9	-25.0	26.0	33	307	Hori	40.0	14.0	
33.333	44.5	QP	16.9	-25.0	36.4	137	100	Vert	40.0	3.6	
166.666	44.1	QP	15.4	-23.1	36.4	101	185	Hori	43.5	7.1	
166.666	40.4	QP	15.4	-23.1	32.7	268	100	Vert	43.5	10.8	
300.001	34.8	QP	16.3	-22.0	29.1	268	100	Vert	46.0	16.9	
300.001	44.9	QP	16.3	-22.0	39.2	91	100	Hori	46.0	6.8	
333.331	44.3	QP	16.9	-21.9	39.3	0	100	Hori	46.0	6.7	
333.331	34.7	QP	16.9	-21.9	29.7	83	111	Vert	46.0	16.3	
366.666	43.6	QP	17.3	-21.6	39.3	209	100	Hori	46.0	6.7	
366.666	40.9	QP	17.3	-21.6	36.6	78	121	Vert	46.0	9.4	
433.330	37.0	QP	18.3	-21.1	34.2	207	100	Hori	46.0	11.8	
433.330	37.9	QP	18.3	-21.1	35.1	211	100	Vert	46.0	10.9	

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

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

Radiated Spurious Emission (below 1GHz)
11a Rx Mch(5785MHz), Used Antenna for Rx: Antenna 3

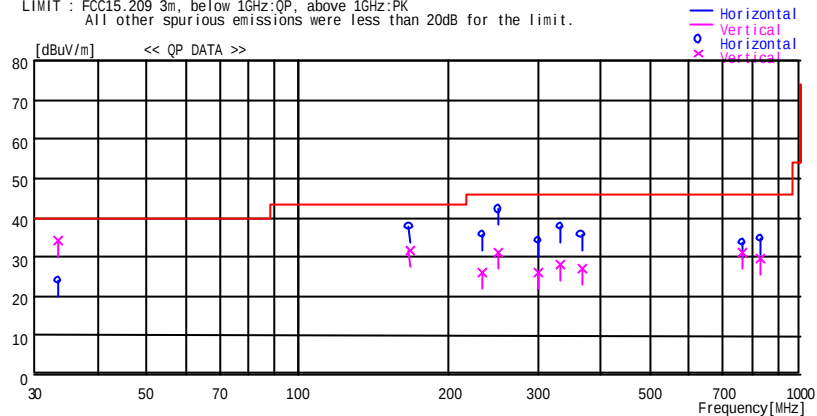
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2009/04/08

Company : silex technology, Inc. Report No. : 28IE0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (Jig input AC120V / 60Hz)
Model No. : SX-10WAN + TT98061 Temp./Humi. : 24 deg.C / 38 %
Serial No. : 008092011314 + 003 Engineer : Hisayoshi Sato

Mode / Remarks: WLAN 11a,Rx,5785MHz,Ant3 / Module-axis H:Y, V:Y / Antenna-axis H:X0, V:X90

LIMIT : FCC15,209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
33.325	28.4	QP	17.6	-21.8	24.2	173	311	Hori.	40.0	15.8	
33.323	38.4	QP	17.6	-21.8	34.2	63	100	Vert.	40.0	5.8	
166.655	36.1	QP	15.8	-20.3	31.6	127	100	Vert.	43.5	11.9	
166.666	42.2	QP	15.8	-20.3	37.7	328	186	Hori.	43.5	5.8	
233.351	28.3	QP	17.0	-19.5	25.8	131	100	Vert.	46.0	20.2	
233.325	38.3	QP	17.0	-19.5	35.8	184	146	Hori.	46.0	10.2	
249.999	33.2	QP	17.2	-19.4	31.0	146	131	Vert.	46.0	15.0	
249.994	44.3	QP	17.2	-19.4	42.1	185	129	Hori.	46.0	3.9	
300.002	32.3	QP	17.8	-18.9	26.2	294	100	Vert.	46.0	19.8	
300.004	40.4	QP	12.8	-18.9	34.3	190	112	Hori.	46.0	11.7	
333.331	42.2	QP	14.5	-18.9	37.8	194	100	Hori.	46.0	8.2	
333.329	32.6	QP	14.5	-18.9	28.2	289	344	Vert.	46.0	17.8	
366.668	29.9	QP	16.1	-19.0	27.0	300	266	Vert.	46.0	19.0	
366.658	38.8	QP	16.1	-19.0	35.9	193	100	Hori.	46.0	10.1	
766.657	27.8	QP	21.1	-17.8	31.1	192	117	Vert.	46.0	14.9	
766.659	30.3	QP	21.1	-17.8	33.6	121	113	Hori.	46.0	12.4	
833.154	30.2	QP	21.7	-17.3	34.6	118	100	Hori.	46.0	11.4	
833.165	25.1	QP	21.7	-17.3	29.5	208	100	Vert.	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)

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

Radiated Spurious Emission (below 1GHz)
11n(20HT) Rx Mch(2437MHz), Used Antenna for Tx: Antenna 1 + 2 + 3

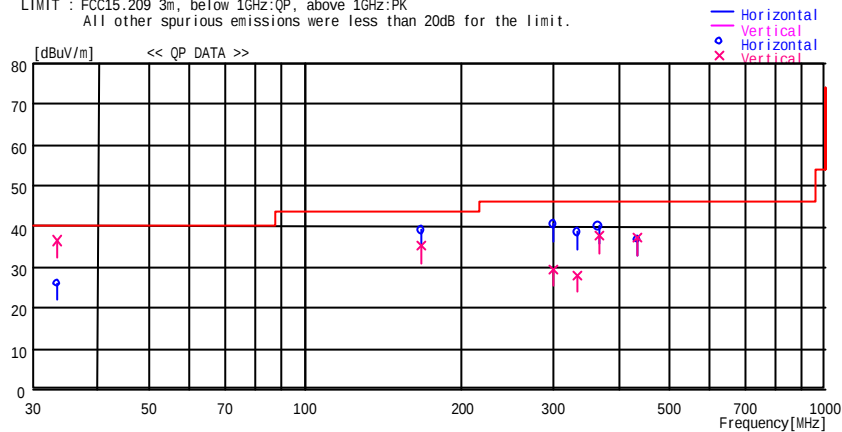
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/04/04

Company : silex technology, Inc. Report No. : 28IE0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (Jig input AC120V / 60Hz)
Model No. : SX-10WAN + TT98061 Temp./Humi. : 23 deg.C. / 38 %
Serial No. : 008092011314 + 001, 002, 003 Engineer : Takahiro Hatakeda

Mode / Remarks : WLAN 11n 20HT, Rx, 2437MHz, Ant1, 2, 3 / Module-axis H:Y, V:Y / Antenna-axis H:X0, V:X90

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
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	34.1	NP	16.9	-25.0	26.0	229	331	Hori.	40.0	14.0	
33.333	44.6	QP	16.9	-25.0	36.5	126	100	Vert.	40.0	3.5	
166.666	46.8	NP	15.4	-23.1	39.1	95	108	Hori.	43.5	4.4	
166.666	42.8	QP	15.4	-23.1	35.1	281	100	Vert.	43.5	8.4	
300.001	35.1	NP	16.3	-22.0	29.4	266	100	Vert.	46.0	16.6	
300.001	46.2	QP	16.3	-22.0	40.5	91	100	Hori.	46.0	5.5	
333.332	33.0	NP	16.9	-21.9	28.0	89	100	Vert.	46.0	18.0	
333.332	43.6	QP	16.9	-21.9	38.6	0	100	Hori.	46.0	7.4	
366.666	44.3	QP	17.3	-21.6	40.0	228	100	Hori.	46.0	6.0	
366.666	41.9	QP	17.3	-21.6	37.6	131	104	Vert.	46.0	8.4	
433.330	39.7	QP	18.3	-21.1	36.9	221	100	Hori.	46.0	9.1	
433.330	39.9	QP	18.3	-21.1	37.1	201	100	Vert.	46.0	8.9	

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

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

Radiated Spurious Emission (below 1GHz)
11n(20HT) Rx Mch(5785MHz), Used Antenna for Rx: Antenna 1 + 2 + 3

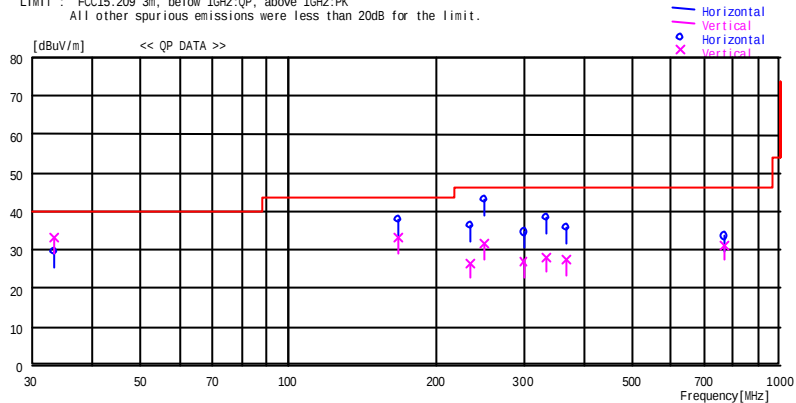
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2009/04/08

Company : silex technology, Inc. Report No. : 28IE0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (Jig input AC120V / 60Hz)
Model No. : SX-10WAN + TT98061 Temp./Humi. : 23 deg.C. / 42 %
Serial No. : 008092011314 + 001, 002, 003 Engineer : Takeshi Choda

Mode / Remarks : WLAN 11n20,Rx,5785MHz,Ant1,2,3 / Module-axis H:Y, V:Y / Antenna-axis H:X0, V:X90

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Loss &		Level [dBuV / m]	Angle [deg]	Height [cm]	Polar .	Limit [dBuV/m]	Margin [dB]	Comment
			Factor	Gain	Factor	Gain							
33.335	33.7	QP	17.6	-21.8	29.5	201	213	Horiz.	40.0	10.5			
33.333	37.4	QP	17.6	-21.8	33.2	67	100	Vert.	40.0	6.8			
166.665	37.5	QP	15.8	-20.3	33.0	122	100	Vert.	43.5	10.5			
166.665	42.4	QP	15.8	-20.3	37.9	329	184	Horiz.	43.5	5.6			
233.333	29.0	QP	17.0	-19.5	26.5	126	100	Vert.	46.0	19.5			
233.332	38.7	QP	17.0	-19.5	36.2	184	141	Horiz.	46.0	9.8			
249.997	33.7	QP	17.2	-19.4	31.5	141	133	Vert.	46.0	14.5			
249.998	45.3	QP	17.2	-19.4	43.1	187	128	Horiz.	46.0	2.9			
300.000	32.8	QP	12.8	-18.9	26.7	294	100	Vert.	46.0	19.3			
300.000	40.6	QP	12.8	-18.9	34.5	190	110	Horiz.	46.0	11.5			
333.330	42.8	QP	14.5	-18.9	38.4	193	100	Horiz.	46.0	7.6			
333.331	32.5	QP	14.5	-18.9	28.1	280	290	Vert.	46.0	17.9			
366.664	30.1	QP	16.1	-19.0	27.2	292	271	Vert.	46.0	18.8			
366.663	38.7	QP	16.1	-19.0	35.8	191	100	Horiz.	46.0	10.2			
766.660	27.9	QP	21.1	-17.8	31.2	188	124	Vert.	46.0	14.8			
766.660	30.2	QP	21.1	-17.8	33.5	125	104	Horiz.	46.0	12.5			

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

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

Radiated Spurious Emission (below 1GHz)
11n(40HT) Rx Mch(2437MHz), Used Antenna for Rx: Antenna 1 + 2 + 3

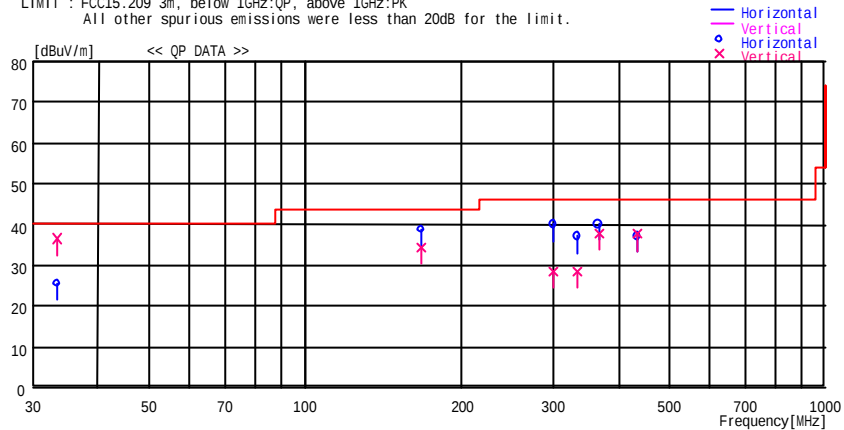
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/04/04

Company : silex technology, Inc. Report No. : 28IE0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (Jig input AC120V / 60Hz)
Model No. : SX-10WAN + TT98061 Temp./Humi. : 23 deg.C. / 38 %
Serial No. : 008092011314 + 001, 002, 003 Engineer : Takahiro Hatakeda

Mode / Remarks : WLAN 11n 40HT, Rx, 2437MHz, Ant1, 2, 3 / Module-axis H:Y, V:Y / Antenna-axis H:X0, V:X90

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
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	33.6	OP	16.9	-25.0	25.5	231	311	Hori.	40.0	14.5	
33.333	44.6	OP	16.9	-25.0	36.5	118	100	Vert.	40.0	3.5	
166.666	46.4	OP	15.4	-23.1	38.7	91	106	Hori.	43.5	4.8	
166.666	42.0	OP	15.4	-23.1	34.3	277	100	Vert.	43.5	9.2	
300.001	34.2	OP	16.3	-22.0	28.5	257	100	Vert.	46.0	17.5	
300.001	45.7	OP	16.3	-22.0	40.0	108	100	Hori.	46.0	6.0	
333.333	33.4	OP	16.9	-21.9	28.4	94	100	Vert.	46.0	17.6	
333.333	42.1	OP	16.9	-21.9	37.1	0	100	Hori.	46.0	8.9	
366.666	44.4	OP	17.3	-21.6	40.1	211	100	Hori.	46.0	5.9	
366.666	42.0	OP	17.3	-21.6	37.7	119	108	Vert.	46.0	8.3	
433.331	40.0	OP	18.3	-21.1	37.2	241	100	Hori.	46.0	8.8	
433.331	40.4	OP	18.3	-21.1	37.6	171	100	Vert.	46.0	8.4	

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

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

Radiated Spurious Emission (below 1GHz)
11n(40HT) Rx Hch(5795MHz), Used Antenna for Rx: Antenna 1 + 2 + 3

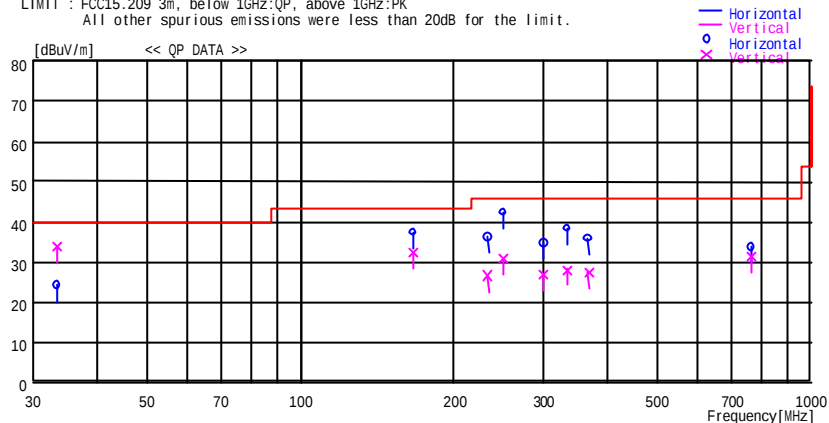
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2009/04/07

Company : silex technology, Inc. Report No. : 28IE0116-HO-02
Kind of EUT : MiniPCI Wireless LAN Board Power : DC3.3V (Jig input AC120V / 60Hz)
Model No. : SX-10WAN + TT98061 Temp./Humi. : 23 deg.C. / 42 %
Serial No. : 008092011314 + 001, 002, 003 Engineer : Takeshi Choda

Mode / Remarks : WLAN 11n40, Rx, 5795MHz, Ant1, 2, 3 / Module-axis H:Y, V:Y / Antenna-axis H:X0, V:X90

LIMIT : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna	Loss	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		Factor	Gain	[dBuV/m]	[Deg.]	[cm]		[dBuV/m]	[dB]	
33.335	28.4	QP	17.6	-21.8	24.7	180	284	Hori.	40.0	15.8	
33.332	38.0	QP	17.6	-21.8	33.8	67	100	Vert.	40.0	6.2	
166.665	36.8	QP	15.8	-20.3	32.3	127	100	Vert.	43.5	11.2	
166.665	41.9	QP	15.8	-20.3	37.4	324	188	Hori.	43.5	6.1	
233.332	29.1	QP	17.0	-19.5	26.6	142	100	Vert.	46.0	19.4	
233.332	38.7	QP	17.0	-19.5	36.2	359	148	Hori.	46.0	9.8	
249.997	33.1	QP	17.2	-19.4	30.9	151	117	Vert.	46.0	15.1	
249.998	44.6	QP	17.2	-19.4	42.4	186	134	Hori.	46.0	3.6	
300.000	32.9	QP	17.8	-18.9	26.8	288	100	Vert.	46.0	19.2	
300.000	40.8	QP	12.8	-18.9	34.7	194	114	Hori.	46.0	11.3	
333.331	42.8	QP	14.5	-18.9	38.4	193	100	Hori.	46.0	7.6	
333.331	32.5	QP	14.5	-18.9	28.1	286	288	Vert.	46.0	17.9	
366.664	30.4	QP	16.1	-19.0	27.5	277	266	Vert.	46.0	18.5	
366.663	38.9	QP	16.1	-19.0	36.0	192	100	Hori.	46.0	10.0	
766.660	28.0	QP	21.1	-17.8	31.3	187	121	Vert.	46.0	14.7	
766.660	30.4	QP	21.1	-17.8	33.7	124	104	Hori.	46.0	12.3	

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

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

Radiated Spurious Emission (above 1GHz)
11b Tx Lch(2412MHz) 11Mbps, Used Antenna for Tx: Antenna 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : silex technology, Inc.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAN
S/N : 008092011317
Power : DC3.3V (PC input AC120V / 60Hz)
Mode : WLAN 11b, Tx, 2412MHz, 11Mbps, Ant3
Module axis : Hor Y , Ver Y-axis
Antenna axis : Hor X 0deg , Ver X 90deg

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : 05/19/2008
Temperature : 23deg.C.
Humidity : 42%
Engineer : Satofumi Matsuyama

PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.00	58.0	53.5	27.0	32.2	2.8	0.0	55.6	51.1	73.9	18.3	22.8
2**	2400.00	74.3	70.1	27.0	32.1	2.8	0.0	72.0	67.8	73.9	-	-
3	4824.00	40.5	40.4	30.8	30.9	3.8	0.9	45.1	45.0	73.9	28.8	28.9
4	7236.00	41.9	42.3	35.7	32.0	4.7	0.7	51.0	51.4	73.9	22.9	22.5
5	9648.00	42.8	43.0	38.2	32.4	5.7	1.0	55.3	55.5	73.9	18.6	18.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	14472.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	16884.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	19296.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	21708.00	NS	NS	-	-	-	-	-	-	73.9	-	-
11	24120.00	44.2	44.4	38.5	31.0	8.4	0.0	50.6	50.8	73.9	23.3	23.1
** Reference data												
AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.00	43.9	39.9	27.0	32.2	2.8	0.0	41.5	37.5	53.9	12.4	16.4
2**	2400.00	64.9	60.5	27.0	32.1	2.8	0.0	62.6	58.2	53.9	-	-
3	4824.00	27.3	27.1	30.8	30.9	3.8	0.9	31.9	31.7	53.9	22.0	22.2
4	7236.00	28.7	28.7	35.7	32.0	4.7	0.7	37.8	37.8	53.9	16.1	16.1
5	9648.00	28.7	28.7	38.2	32.4	5.7	1.0	41.2	41.2	53.9	12.7	12.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	14472.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	16884.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	19296.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	21708.00	NS	NS	-	-	-	-	-	-	53.9	-	-
11	24120.00	31.1	31.1	38.5	31.0	8.4	0.0	37.5	37.5	53.9	16.4	16.4

** Reference data

AV DETECT (RBW: 1MHz, VBW: 10Hz)																
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN					
		HOR	VER					HOR	VER		HOR	VER				
		[dBuV]						[dBuV/m]				[dB]				
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss																
1	2390.00	43.9	39.9	27.0	32.2	2.8	0.0	41.5	37.5	53.9	12.4	16.4				
2**	2400.00	64.9	60.5	27.0	32.1	2.8	0.0	62.6	58.2	53.9	-	-				
3	4824.00	27.3	27.1	30.8	30.9	3.8	0.9	31.9	31.7	53.9	22.0	22.2				
4	7236.00	28.7	28.7	35.7	32.0	4.7	0.7	37.8	37.8	53.9	16.1	16.1				
5	9648.00	28.7	28.7	38.2	32.4	5.7	1.0	41.2	41.2	53.9	12.7	12.7				
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac																
6	12060.00	NS	NS	-	-	-	-	-	-	53.9	-	-				
7	14472.00	NS	NS	-	-	-	-	-	-	53.9	-	-				
8	16884.00	NS	NS	-	-	-	-	-	-	53.9	-	-				
9	19296.00	NS	NS	-	-	-	-	-	-	53.9	-	-				
10	21708.00	NS	NS	-	-	-	-	-	-	53.9	-	-				
11	24120.00	31.1	31.1	38.5	31.0	8.4	0.0	37.5	37.5	53.9	16.4	16.4				

** Reference data

20dBc Fundamental 2412.0 MHz (RBW: 100kHz, VBW: 300kHz)																
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN					
		HOR	VER					HOR	VER		HOR	VER				
		[dBuV]						[dBuV/m]				[dB]				
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac																
1	2412.00	108.5	107.2	27.1	32.1	2.8	0.0	106.3	105.0	-	-	-				
2	2400.00	67.4	63.8	27.0	32.1	2.8	0.0	65.1	61.5	Funda-20dB	21.2	23.5				

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

Radiated Spurious Emission (above 1GHz)

11b Tx Mch(2437MHz) 11Mbps, Used Antenna for Tx: Antenna 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : silex technology, Inc. Equipment : MiniPCI Wireless LAN Board Model : SX-10WAN S/N : 008092011317 Power : DC3.3V (PC input AC120V / 60Hz) Mode : WLAN 11b, Tx, 2437MHz, 11Mbps, Ant3 Module axis : Hor Y , Ver Y-axis Antenna axis : Hor X 0deg , Ver X 90deg	Regulation : FCC15.247(d) / RSS-210 A8.5 Test Distance : 3m / 1m Date : 05/19/2008 Temperature : 23deg.C. Humidity : 42% Engineer : Satofumi Matsuyama
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PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.00	40.8	40.3	31.0	30.9	3.8	0.9	45.6	45.1	73.9	28.3	28.8
2	7311.00	41.8	41.9	35.9	32.1	4.7	0.7	51.0	51.1	73.9	22.9	22.8
3	9748.00	41.8	42.3	38.3	32.4	5.8	1.0	54.5	55.0	73.9	19.4	18.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.00	NS	NS	-	-	-	-	-	-	73.9	-	-
5	14622.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	17059.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	19496.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	21933.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	24370.00	45.1	45.3	38.6	31.0	8.5	0.0	51.7	51.9	73.9	22.2	22.0

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.00	27.0	27.0	31.0	30.9	3.8	0.9	31.8	31.8	53.9	22.1	22.1
2	7311.00	28.5	28.5	35.9	32.1	4.7	0.7	37.7	37.7	53.9	16.2	16.2
3	9748.00	28.6	28.6	38.3	32.4	5.8	1.0	41.3	41.3	53.9	12.6	12.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.00	NS	NS	-	-	-	-	-	-	53.9	-	-
5	14622.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	17059.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	19496.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	21933.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	24370.00	31.9	31.8	38.6	31.0	8.5	0.0	38.5	38.4	53.9	15.4	15.5

Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1.0) = 9.54$ dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Filter was not used for factor 0.0dB of the above table.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.
*The limit is rounded down to one decimal place.
*The test result is round off to one or two decimal places, so some differences might be observed.
*NS : No detect Signal.

Radiated Spurious Emission (above 1GHz)

11b Tx Hch(2462MHz) 11Mbps, Used Antenna for Tx: Antenna 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : silex technology, Inc. Equipment : MiniPCI Wireless LAN Board Model : SX-10WAN S/N : 008092011317 Power : DC3.3V (PC input AC120V / 60Hz) Mode : WLAN 11b, Tx, 2462MHz, 11Mbps, Ant3 Module axis : Hor Y , Ver Y-axis Antenna axis : Hor X 0deg , Ver X 90deg	Regulation : FCC15.247(d) / RSS-210 A8.5 Test Distance : 3m / 1m Date : 05/19/2008 Temperature : 23deg.C. Humidity : 42% Engineer : Satofumi Matsuyama
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PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.50	55.8	55.1	27.2	32.1	2.9	0.0	53.8	53.1	73.9	20.1	20.8
2	4924.00	40.9	40.8	31.1	30.9	3.8	0.9	45.8	45.7	73.9	28.1	28.2
3	7386.00	41.5	41.7	36.0	32.1	4.7	0.7	50.8	51.0	73.9	23.1	22.9
4	9848.00	41.6	41.5	38.3	32.4	5.9	1.0	54.4	54.3	73.9	19.5	19.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	14772.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	17234.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	19696.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	22158.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	24620.00	44.3	44.1	38.8	31.0	8.5	0.0	51.1	50.9	73.9	22.8	23.0

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.50	42.5	41.8	27.2	32.1	2.9	0.0	40.5	39.8	53.9	13.4	14.1
2	4924.00	27.3	27.2	31.1	30.9	3.8	0.9	32.2	32.1	53.9	21.7	21.8
3	7386.00	28.6	28.5	36.0	32.1	4.7	0.7	37.9	37.8	53.9	16.0	16.1
4	9848.00	28.6	28.6	38.3	32.4	5.9	1.0	41.4	41.4	53.9	12.5	12.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	14772.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	17234.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	19696.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	22158.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	24620.00	31.0	31.0	38.8	31.0	8.5	0.0	37.8	37.8	53.9	16.1	16.1

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

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Radiated Spurious Emission (above 1GHz)
11g Tx Lch(2412MHz) 54Mbps, Used Antenna for Tx: Antenna 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : silex technology, Inc.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAN
S/N : 008092011317
Power : DC3.3V (PC input AC120V / 60Hz)
Mode : WLAN 11g, Tx, 2412MHz, 54Mbps, Ant3
Module axis : Hor Y , Ver Y-axis
Antenna axis : Hor X 0deg , Ver X 90deg

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : 05/19/2008
Temperature : 23deg.C.
Humidity : 42%
Engineer : Satofumi Matsuyama

PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]				
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.00	69.3	64.2	27.0	32.2	2.8	0.0	66.9	61.8	73.9	7.0	12.1
2**	2400.00	89.9	86.0	27.0	32.1	2.8	0.0	87.6	83.7	73.9	-	-
3	4824.00	41.1	40.4	30.8	30.9	3.8	0.9	45.7	45.0	73.9	28.2	28.9
4	7236.00	41.9	41.8	35.7	32.0	4.7	0.7	51.0	50.9	73.9	22.9	23.0
5	9648.00	42.1	42.5	38.2	32.4	5.7	1.0	54.6	55.0	73.9	19.3	18.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	14472.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	16884.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	19296.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	21708.00	NS	NS	-	-	-	-	-	-	73.9	-	-
11	24120.00	44.3	44.2	38.5	31.0	8.4	0.0	50.7	50.6	73.9	23.2	23.3

** Reference data

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
			[dBuV]								[dBuV/m]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.00	48.6	44.3	27.0	32.2	2.8	0.0	46.2	41.9	53.9	7.7	12.0
2**	2400.00	65.0	61.3	27.0	32.1	2.8	0.0	62.7	59.0	53.9	-	-
3	4824.00	27.3	27.3	30.8	30.9	3.8	0.9	31.9	31.9	53.9	22.0	22.0
4	7236.00	28.6	28.6	35.7	32.0	4.7	0.7	37.7	37.7	53.9	16.2	16.2
5	9648.00	28.7	28.7	38.2	32.4	5.7	1.0	41.2	41.2	53.9	12.7	12.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	14472.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	16884.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	19296.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	21708.00	NS	NS	-	-	-	-	-	-	53.9	-	-
11	24120.00	31.2	31.2	38.5	31.0	8.4	0.0	37.6	37.6	53.9	16.3	16.3

** Reference data

20dBc (Fundamental 2412.0 MHz) (RBW: 100kHz, VBW: 300kHz)													
No.	FREQ [MHz]	S/A READING [dBuV]		ANT Factor [dBm]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT [dBuV/m]		Limit 20dBc [dBuV/m]	MARGIN [dB]		
		HOR	VER					HOR	VER		HOR	VER	
		Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac											
1	2412.00	104.1	100.6	27.1	32.1	2.8	0.0	101.9	98.4	-	-	-	
2	2400.00	76.0	71.8	27.0	32.1	2.8	0.0	73.7	69.5	Funda-20dB	8.2	8.9	

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

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Radiated Spurious Emission (above 1GHz)

11g Tx Mch(2437MHz) 54Mbps, Used Antenna for Tx: Antenna 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : silex technology, Inc. Equipment : MiniPCI Wireless LAN Board Model : SX-10WAN S/N : 008092011317 Power : DC3.3V (PC input AC120V / 60Hz) Mode : WLAN 11g, Tx, 2437MHz, 54Mbps, Ant3 Module axis : Hor Y , Ver Y-axis Antenna axis : Hor X 0deg , Ver X 90deg	Regulation : FCC15.247(d) / RSS-210 A8.5 Test Distance : 3m / 1m Date : 05/19/2008 Temperature : 23deg.C. Humidity : 42% Engineer : Satofumi Matsuyama
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PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.00	40.5	40.5	31.0	30.9	3.8	0.9	45.3	45.3	73.9	28.6	28.6
2	7311.00	42.0	41.6	35.9	32.1	4.7	0.7	51.2	50.8	73.9	22.7	23.1
3	9748.00	41.4	41.8	38.3	32.4	5.8	1.0	54.1	54.5	73.9	19.8	19.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.00	NS	NS	-	-	-	-	-	-	73.9	-	-
5	14622.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	17059.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	19496.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	21933.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	24370.00	45.2	44.9	38.6	31.0	8.5	0.0	51.8	51.5	73.9	22.1	22.4

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ	S/A READING		ANT Factor	AMP GAIN	CABLE LOSS	Hi-Pass Filter	RESULT		Limit AV	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
	[MHz]	[dBuV]	[dBm]					[dB]	[dB]		[dBuV/m]	[dBuV/m]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.00	27.1	27.1	31.0	30.9	3.8	0.9	31.9	31.9	53.9	22.0	22.0
2	7311.00	28.5	28.5	35.9	32.1	4.7	0.7	37.7	37.7	53.9	16.2	16.2
3	9748.00	28.6	28.6	38.3	32.4	5.8	1.0	41.3	41.3	53.9	12.6	12.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.00	NS	NS	-	-	-	-	-	-	53.9	-	-
5	14622.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	17059.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	19496.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	21933.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	24370.00	31.8	31.8	38.6	31.0	8.5	0.0	38.4	38.4	53.9	15.5	15.5

Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1.0) = 9.54$ dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Filter was not used for factor 0.0dB of the above table.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.
*The limit is rounded down to one decimal place.
*The test result is round off to one or two decimal places, so some differences might be observed.
*NS : No detect Signal.

Radiated Spurious Emission (above 1GHz)
11g Tx Hch(2462MHz) 54Mbps, Used Antenna for Tx: Antenna 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	: silex technology, Inc.	Regulation	: FCC15.247(d) / RSS-210 A8.5
Equipment	: MiniPCI Wireless LAN Board	Test Distance	: 3m / 1m
Model	: SX-10WAN	Date	: 05/19/2008
S/N	: 008092011317	Temperature	: 23deg.C.
Power	: DC3.3V (PC input AC120V / 60Hz)	Humidity	: 42%
Mode	: WLAN 11g, Tx, 2462MHz, 54Mbps, Ant3	Engineer	: Satofumi Matsuyama
Module axis	: Hor Y , Ver Y-axis		
Antenna axis	: Hor X 0deg , Ver X 90deg		

PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.50	72.8	71.9	27.2	32.1	2.9	0.0	70.8	69.9	73.9	3.1	4.0
2	4924.00	40.8	40.7	31.1	30.9	3.8	0.9	45.7	45.6	73.9	28.2	28.3
3	7386.00	42.0	42.0	36.0	32.1	4.7	0.7	51.3	51.3	73.9	22.6	22.6
4	9848.00	41.9	42.2	38.3	32.4	5.9	1.0	54.7	55.0	73.9	19.2	18.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	14772.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	17234.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	19696.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	22158.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	24620.00	44.6	44.2	38.8	31.0	8.5	0.0	51.4	51.0	73.9	22.5	22.9

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.50	51.4	50.9	27.2	32.1	2.9	0.0	49.4	48.9	53.9	4.5	5.0
2	4924.00	27.3	27.3	31.1	30.9	3.8	0.9	32.2	32.2	53.9	21.7	21.7
3	7386.00	28.5	28.5	36.0	32.1	4.7	0.7	37.8	37.8	53.9	16.1	16.1
4	9848.00	28.7	28.6	38.3	32.4	5.9	1.0	41.5	41.4	53.9	12.4	12.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	14772.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	17234.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	19696.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	22158.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	24620.00	31.0	31.0	38.8	31.0	8.5	0.0	37.8	37.8	53.9	16.1	16.1

Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1.0) = 9.54$ dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*Hi-Pass Filter was not used for factor 0.0dB of the above table.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.
*The limit is rounded down to one decimal place.
*The test result is round off to one or two decimal places, so some differences might be observed.
*NS : No detect Signal.

Radiated Spurious Emission (above 1GHz)
11a Tx Lch(5745MHz) 54Mbps, Used Antenna for Tx: Antenna 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	:	silex technology, Inc.	Regulation	:	FCC15.247(d) / RSS-210 A8.5
Equipment	:	MiniPCI Wireless LAN Board	Test Distance	:	3m / 1m / 0.5m
Model	:	SX-10WAN	Date	:	05/16/2008 05/18/2008
S/N	:	008092011317	Temperature	:	24deg.C. 24deg.C.
Power	:	DC3.3V (PC input AC120V / 60Hz)	Humidity	:	45% 45%
Mode	:	WLAN 11a, Tx, 5745MHz, 54Mbps, Ant3	Engineer	:	Takayuki Shimada Hisayoshi Sato
Module axis	:	Hor Y , Ver Y-axis			
Antenna axis	:	Hor X 0deg , Ver X 90deg			

PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1**	5725.00	65.0	64.2	31.9	31.0	3.8	0.0	69.7	68.9	73.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11490.00	NS	NS	-	-	-	-	-	-	73.9	-	-
3	17235.00	NS	NS	-	-	-	-	-	-	73.9	-	-
4	22980.00	NS	NS	-	-	-	-	-	-	73.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(0.5m)												
5	28725.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	34470.00	36.3	37.0	40.7	25.2	6.4	0.0	42.6	43.3	73.9	31.3	30.6

** Reference data

AV DETECT (RBW: 1MHz, VBW: 10Hz)													
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN		
		HOR	VER					HOR	VER		HOR	VER	
		[dBuV]						[dBuV/m]			[dB]		
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss													
1**	5725.00	42.8	41.8	31.9	31.0	3.8	0.0	47.5	46.5	53.9	-	-	
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)													
2	11490.00	NS	NS	-	-	-	-	-	-	53.9	-	-	
3	17235.00	NS	NS	-	-	-	-	-	-	53.9	-	-	
4	22980.00	NS	NS	-	-	-	-	-	-	53.9	-	-	
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(0.5m)													
5	28725.00	NS	NS	-	-	-	-	-	-	53.9	-	-	
6	34470.00	27.5	27.6	40.7	25.2	6.4	0.0	33.8	33.9	53.9	20.1	20.0	

** Reference data

20dBc (Fundamental 5745.0 MHz) (RBW: 100kHz, VBW: 300kHz)													
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN		
		HOR	VER					HOR	VER		HOR	VER	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss													
1	5745.00	94.4	93.4	31.9	31.0	3.8	0.0	99.1	98.1	-	-	-	-
2	5725.00	50.9	49.6	31.9	31.0	3.8	0.0	55.6	54.3	Funda-20dB	23.5	23.8	

Test Distance 1.0m : Distance Factor(Dfac(1.0m)) = 20log(3/1.0) 9.54 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) 15.56 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

Radiated Spurious Emission (above 1GHz)

11a Tx Mch(5785MHz) 54Mbps, Used Antenna for Tx: Antenna 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : silex technology, Inc. Equipment : MiniPCI Wireless LAN Board Model : SX-10WAN S/N : 008092011317 Power : DC3.3V (PC input AC120V / 60Hz) Mode : WLAN 11a, Tx, 5785MHz, 54Mbps, Ant3 Module axis : Hor Y , Ver Y-axis Antenna axis : Hor X 0deg , Ver X 90deg	Regulation : FCC15.247(d) / RSS-210 A8.5 Test Distance : 3m / 1m / 0.5m Date : 05/16/2008 Temperature : 24deg.C. Humidity : 45% Engineer : Takayuki Shimada Hisayoshi Sato
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PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ	S/A READING		ANT Factor	AMP GAIN	CABLE LOSS	Hi-Pass Filter	RESULT		Limit PK	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
	[MHz]	[dBuV]						[dB/m]	[dB]		[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	Below 10000.0	NS	NS	-	-	-	-	-	-	73.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11570.00	NS	NS	-	-	-	-	-	-	73.9	-	-
3	17355.00	NS	NS	-	-	-	-	-	-	73.9	-	-
4	23140.00	NS	NS	-	-	-	-	-	-	73.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(0.5m)												
5	28925.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	34710.00	39.3	37.6	40.8	25.1	6.6	0.0	46.0	44.3	73.9	27.9	29.6

** Reference data

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]	[dBuV]					[dBuV/m]	[dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	Below 10000.0	NS	NS	-	-	-	-	-	-	53.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11570.00	NS	NS	-	-	-	-	-	-	53.9	-	-
3	17355.00	NS	NS	-	-	-	-	-	-	53.9	-	-
4	23140.00	NS	NS	-	-	-	-	-	-	53.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(0.5m)												
5	28925.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	34710.00	28.2	28.2	40.8	25.1	6.6	0.0	34.9	34.9	53.9	19.0	19.0

Test Distance 1.0m : Distance Factor(Dfac(1.0m)) = 20log(3/1.0) 9.54 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) 15.56 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

Radiated Spurious Emission (above 1GHz)

11a Tx Hch(5825MHz) 54Mbps, Used Antenna for Tx: Antenna 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : silex technology, Inc. Equipment : MiniPCI Wireless LAN Board Model : SX-10WAN S/N : 008092011317 Power : DC3.3V (PC input AC120V / 60Hz) Mode : WLAN 11a, Tx, 5825MHz, 54Mbps, Ant3 Module axis : Hor Y , Ver Y-axis Antenna axis : Hor X 0deg , Ver X 90deg	Regulation : FCC15.247(d) / RSS-210 A8.5 Test Distance : 3m / 1m / 0.5m Date : 05/16/2008 Temperature : 24deg.C. Humidity : 45% Engineer : Takayuki Shimada
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05/18/2008
24deg.C.
45%
Hisayoshi Sato

PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dBm]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1**	5850.00	58.3	54.3	32.0	31.1	3.9	0.0	63.1	59.1	73.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11650.00	NS	NS	-	-	-	-	-	-	73.9	-	-
3	17475.00	NS	NS	-	-	-	-	-	-	73.9	-	-
4	23300.00	NS	NS	-	-	-	-	-	-	73.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(0.5m)												
5	29125.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	34950.00	39.0	40.3	40.8	25.1	6.6	0.0	45.7	47.0	73.9	28.2	26.9

** Reference data

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1**	5850.00	35.8	33.4	32.0	31.1	3.9	0.0	40.6	38.2	53.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11650.00	NS	NS	-	-	-	-	-	-	53.9	-	-
3	17475.00	NS	NS	-	-	-	-	-	-	53.9	-	-
4	23300.00	NS	NS	-	-	-	-	-	-	53.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(0.5m)												
5	29125.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	34950.00	28.9	28.9	40.8	25.1	6.6	0.0	35.6	35.6	53.9	18.3	18.3

** Reference data

20dBc (Fundamental 5825.0 MHz) (RBW: 100kHz, VBW: 300kHz)													
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN		
		HOR [dBuV]	VER					HOR [dBuV/m]	VER		HOR [dB]	VER	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss													
0	5825.00	97.1	94.9	32.0	31.1	3.9	0.0	101.9	99.7	-	-	-	-
1	5850.00	44.7	40.9	32.0	31.1	3.9	0.0	49.5	45.7	Funda-20dB	32.4	34.0	-

Test Distance 1.0m : Distance Factor(Dfac(1.0m)) = 20log(3/1.0) 9.54 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) 15.56 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

UL Japan, Inc.

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Radiated Spurious Emission (above 1GHz)

11n(20HT) Tx Lch(2412MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : Silex technology, Inc.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAN
S/N : 008092011314
Power : DC3.3V (PC input AC120V / 60Hz)
Mode : WLAN 11n 20HT, Tx, 2412MHz,
130Mbps, Ant 1, 2, 3

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : 05/28/2008 05/29/2008
Temperature : 22deg.C. 23deg.C.
Humidity : 59% 60%
Engineer : Takahiro Hatakeda Takahiro Hatakeda

Module axis : Hor Y , Ver Y-axis
Antenna axis : Hor X 0deg , Ver X 90deg

PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.00	65.4	65.4	27.0	32.2	2.8	0.0	63.0	63.0	73.9	10.9	10.9
2**	2400.00	89.4	85.8	27.0	32.1	2.8	0.0	87.1	83.5	73.9	-	-
3**	3216.02	53.6	55.2	28.3	31.7	3.2	0.0	53.4	55.0	73.9	-	-
4	4824.00	40.3	40.0	30.8	30.9	3.8	0.9	44.9	44.6	73.9	29.0	29.3
5	7236.00	41.5	41.7	35.7	32.0	4.7	0.7	50.6	50.8	73.9	23.3	23.1
6	9648.00	41.3	41.5	38.2	32.4	5.7	1.0	53.8	54.0	73.9	20.1	19.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12060.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	14472.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	16884.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	19296.00	NS	NS	-	-	-	-	-	-	73.9	-	-
11	21708.00	NS	NS	-	-	-	-	-	-	73.9	-	-
12	24120.00	46.8	46.6	38.5	31.0	8.4	0.0	53.2	53.0	73.9	20.7	20.9

** Reference data

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
	[MHz]	[dBuV]						[dBuV/m]			[dB]	
	Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss											
1	2390.00	47.3	47.4	27.0	32.2	2.8	0.0	44.9	45.0	53.9	9.0	8.9
2**	2400.00	62.8	60.3	27.0	32.1	2.8	0.0	60.5	58.0	53.9	-	-
3**	3216.02	47.3	50.8	28.3	31.7	3.2	0.0	47.1	50.6	53.9	-	-
4	4824.00	27.0	26.9	30.8	30.9	3.8	0.9	31.6	31.5	53.9	22.3	22.4
5	7236.00	28.8	28.8	35.7	32.0	4.7	0.7	37.9	37.9	53.9	16.0	16.0
6	9648.00	28.8	28.9	38.2	32.4	5.7	1.0	41.3	41.4	53.9	12.6	12.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12060.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	14472.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	16884.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	19296.00	NS	NS	-	-	-	-	-	-	53.9	-	-
11	21708.00	NS	NS	-	-	-	-	-	-	53.9	-	-
12	24120.00	33.1	33.1	38.5	31.0	8.4	0.0	39.5	39.5	53.9	14.4	14.4

** Reference data

20dBc (Fundamental) 2412.0 MHz (RBW: 100kHz, VBW: 300kHz)													
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN		
		HOR	VER					HOR	VER		HOR	VER	
		[dBuV]						[dBuV/m]			[dB]		
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac													
0	2412.00	104.3	99.3	27.1	32.1	2.8	0.0	102.1	97.1	-	-	-	
2	2400.00	74.3	68.4	27.0	32.1	2.8	0.0	72.0	66.1	Funda-20dB	10.1	11.0	
3	3216.02	49.7	52.4	28.3	31.7	3.2	0.0	49.5	52.2	Funda-20dB	32.6	24.9	

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

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Radiated Spurious Emission (above 1GHz)

11n(20HT) Tx Mch(2437MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : Silex technology, Inc.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAN
S/N : 008092011314
Power : DC3.3V (PC input AC120V / 60Hz)
Mode : WLAN 11n 20HT, Tx, 2437MHz,
130Mbps, Ant 1, 2, 3

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : 05/28/2008 05/29/2008
Temperature : 22deg.C. 23deg.C.
Humidity : 59% 60%
Engineer : Takahiro Hatakeda Takahiro Hatakeda

Module axis : Hor Y , Ver Y-axis
Antenna axis : Hor X 0deg , Ver X 90deg

PK DETECT												(RBW: 1MHz, VBW: 1MHz)			
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN				
		HOR	VER					HOR	VER		HOR	VER			
		[dBuV]						[dBuV/m]			[dB]				
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss															
1**	3249.33	50.4	52.3	28.3	31.7	3.2	0.0	50.2	52.1	73.9	-	-			
2	4874.00	39.9	40.0	31.0	30.9	3.8	0.9	44.7	44.8	73.9	29.2	29.1			
3	7311.00	41.9	42.1	35.9	32.1	4.7	0.7	51.1	51.3	73.9	22.8	22.6			
4	9748.00	42.0	42.1	38.3	32.4	5.8	1.0	54.7	54.8	73.9	19.2	19.1			
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac															
5	12185.00	NS	NS	-	-	-	-	-	-	73.9	-	-			
6	14622.00	NS	NS	-	-	-	-	-	-	73.9	-	-			
7	17059.00	NS	NS	-	-	-	-	-	-	73.9	-	-			
8	19496.00	NS	NS	-	-	-	-	-	-	73.9	-	-			
9	21933.00	NS	NS	-	-	-	-	-	-	73.9	-	-			
10	24370.00	46.0	46.1	38.6	31.0	8.5	0.0	52.6	52.7	73.9	21.3	21.2			
** Reference data															
AV DETECT												(RBW: 1MHz, VBW: 10Hz)			
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN				
		HOR	VER					HOR	VER		HOR	VER			
		[dBuV]						[dBuV/m]			[dB]				
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss															
1**	3249.33	47.2	50.2	28.3	31.7	3.2	0.0	47.0	50.0	53.9	-	-			
2	4874.00	27.1	27.1	31.0	30.9	3.8	0.9	31.9	31.9	53.9	22.0	22.0			
3	7311.00	28.9	28.9	35.9	32.1	4.7	0.7	38.1	38.1	53.9	15.8	15.8			
4	9748.00	28.8	28.8	38.3	32.4	5.8	1.0	41.5	41.5	53.9	12.4	12.4			
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac															
5	12185.00	NS	NS	-	-	-	-	-	-	53.9	-	-			
6	14622.00	NS	NS	-	-	-	-	-	-	53.9	-	-			
7	17059.00	NS	NS	-	-	-	-	-	-	53.9	-	-			
8	19496.00	NS	NS	-	-	-	-	-	-	53.9	-	-			
9	21933.00	NS	NS	-	-	-	-	-	-	53.9	-	-			
10	24370.00	32.0	32.0	38.6	31.0	8.5	0.0	38.6	38.6	53.9	15.3	15.3			
** Reference data															
20dBc (Fundamental 2437.0 MHz)												(RBW: 100kHz, VBW: 300kHz)			
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN				
		HOR	VER					HOR	VER		HOR	VER			
		[dBuV]						[dBuV/m]			[dB]				
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac															
0	2437.00	105.9	103.5	27.1	32.1	2.9	0.0	103.8	101.4	-	-	-			
1	3249.33	48.5	51.1	28.3	31.7	3.2	0.0	48.3	50.9	Funda-20dB	35.5	30.5			

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

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Radiated Spurious Emission (above 1GHz)

11n(20HT) Tx Hch(2462MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : Silex technology, Inc.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAN
S/N : 008092011314
Power : DC3.3V (PC input AC120V / 60Hz)
Mode : WLAN 11n 20HT, Tx, 2462MHz,
130Mbps, Ant 1, 2, 3

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : 05/28/2008 05/29/2008
Temperature : 22deg.C. 23deg.C.
Humidity : 59% 60%
Engineer : Takahiro Hatakeda Takahiro Hatakeda

Module axis : Hor Y , Ver Y-axis
Antenna axis : Hor X 0deg , Ver X 90deg

PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.50	69.7	68.0	27.2	32.1	2.9	0.0	67.7	66.0	73.9	6.2	7.9
2**	3282.67	49.0	51.6	28.3	31.7	3.2	0.0	48.8	51.4	73.9	-	-
3	4924.00	40.1	40.6	31.1	30.9	3.8	0.9	45.0	45.5	73.9	28.9	28.4
4	7386.00	41.6	41.5	36.0	32.1	4.7	0.7	50.9	50.8	73.9	23.0	23.1
5	9848.00	42.5	42.3	38.3	32.4	5.9	1.0	55.3	55.1	73.9	18.6	18.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12310.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	14772.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	17234.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	19696.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	22158.00	NS	NS	-	-	-	-	-	-	73.9	-	-
11	24620.00	46.5	46.8	38.8	31.0	8.5	0.0	53.3	53.6	73.9	20.6	20.3

** Reference data

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.50	51.1	47.2	27.2	32.1	2.9	0.0	49.1	45.2	53.9	4.8	8.7
2**	3282.67	45.2	49.1	28.3	31.7	3.2	0.0	45.0	48.9	53.9	-	-
3	4924.00	27.0	27.0	31.1	30.9	3.8	0.9	31.9	31.9	53.9	22.0	22.0
4	7386.00	28.9	28.8	36.0	32.1	4.7	0.7	38.2	38.1	53.9	15.7	15.8
5	9848.00	28.8	28.8	38.3	32.4	5.9	1.0	41.6	41.6	53.9	12.3	12.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12310.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	14772.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	17234.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	19696.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	22158.00	NS	NS	-	-	-	-	-	-	53.9	-	-
11	24620.00	33.3	33.3	38.8	31.0	8.5	0.0	40.1	40.1	53.9	13.8	13.8

** Reference data

20dBc (Fundamental 2462.0 MHz) (RBW: 100kHz, VBW: 300kHz)												
No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER					Factor	GAIN		LOSS	Filter
	[MHz]	[dBuV]	[dBm]	[dBm]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
0	2462.00	107.3	106.2	27.2	32.1	2.9	0.0	105.3	104.2	-	-	-
2	3282.67	46.7	49.9	28.3	31.7	3.2	0.0	46.5	49.7	Funda-20dB	38.8	34.5

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

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Radiated Spurious Emission (above 1GHz)

11n(20HT) Tx Lch(5745MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : Silex technology, Inc.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAN
S/N : 008092011314
Power : DC3.3V (PC input AC120V / 60Hz)
Mode : WLAN 11n, 20HT, Tx, 5745MHz,
130Mbps, Ant 1, 2, 3
Module axis : (Worst) H: Y-axis, V: Y-axis
Antenna axis : (Worst) H: X0-axis, V: X90-axis

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m / 0.5m
Date : 05/27/2008 05/30/2008
Temperature : 23deg.C. 25 deg.C.
Humidity : 53% 59 %
Engineer : Takahiro Hatakeda Takahiro Hatakeda
(1G-26.5GHz) (26.5G-40GHz)

PK DETECT (RBW: 1MHz VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5725.00	58.8	56.9	31.9	31.0	3.8	0.0	63.5	61.6	73.9	10.4	12.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11490.00	43.9	44.2	39.8	33.0	6.2	0.6	48.0	48.3	73.9	25.9	25.6
3	17235.00	43.3	43.4	41.5	31.6	7.5	0.7	51.9	52.0	73.9	22.0	21.9
4	22980.00	NS	NS	-	-	-	-	-	-	73.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(0.5m)												
5	28725.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	34470.00	37.9	38.0	40.7	25.2	16.6	0.0	54.4	54.5	73.9	19.5	19.4

AV DETECT (RBW: 1MHz VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5725.00	41.2	39.0	31.9	31.0	3.8	0.0	45.9	43.7	53.9	8.0	10.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11490.00	30.9	32.2	39.8	33.0	6.2	0.6	35.0	36.3	53.9	18.9	17.6
3	17235.00	31.1	31.1	41.5	31.6	7.5	0.7	39.7	39.7	53.9	14.2	14.2
4	22980.00	NS	NS	-	-	-	-	-	-	53.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(0.5m)												
5	28725.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	34470.00	25.0	25.1	40.7	25.2	16.6	0.0	41.5	41.6	53.9	12.4	12.3

Test Distance 1.0m : Distance Factor(Dfac(1.0m)) = 20log(3/1.0) = 9.54 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.56 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

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Radiated Spurious Emission (above 1GHz)

11n(20HT) Tx Mch(5785MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : Silex technology, Inc.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAN
S/N : 008092011314
Power : DC3.3V (PC input AC120V / 60Hz)
Mode : WLAN 11n, 20HT, Tx, 5785MHz,
130Mbps, Ant 1, 2, 3
Module axis : (Worst) H: Y-axis, V: Y-axis
Antenna axis : (Worst) H: X0-axis, V: X90-axis

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m / 0.5m
Date : 05/27/2008 05/30/2008
Temperature : 23deg.C. 25 deg.C.
Humidity : 53% 59 %
Engineer : Takahiro Hatakeda Takahiro Hatakeda
(1G-26.5GHz) (26.5G-40GHz)

PK DETECT (RBW: 1MHz VBW: 1MHz)												
No.	FRQ [MHz]	S/A READING		ANT Factor [dBm]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	Below 10000.0	NS	NS	-	-	-	-	-	-	73.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11570.00	45.9	46.7	39.7	33.0	6.2	0.6	49.9	50.7	73.9	24.0	23.2
3	17355.00	43.0	43.2	42.3	31.6	7.5	0.7	52.4	52.6	73.9	21.5	21.3
4	23140.00	NS	NS	-	-	-	-	-	-	73.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(0.5m)												
5	28925.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	34710.00	39.4	39.5	40.8	25.1	16.6	0.0	56.1	56.2	73.9	17.8	17.7

AV DETECT (RBW: 1MHz VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amn Gain + Cable Loss + Filter Loss												
1	Below 10000.0	NS	NS	-	-	-	-	-	-	53.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amn Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11570.00	33.6	33.8	39.7	33.0	6.2	0.6	37.6	37.8	53.9	16.3	16.1
3	17355.00	30.8	30.7	42.3	31.6	7.5	0.7	40.2	40.1	53.9	13.7	13.8
4	23140.00	NS	NS	-	-	-	-	-	-	53.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amn Gain + Cable Loss + Filter Loss - Dfac(0.5m)												
5	28925.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	34710.00	25.0	25.1	40.8	25.1	16.6	0.0	41.7	41.8	53.9	12.2	12.1

Test Distance 1.0m : Distance Factor(Dfac(1.0m)) = 20log(3/1.0) 9.54 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) 15.56 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

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Radiated Spurious Emission (above 1GHz)

11n(20HT) Tx Hch(5825MHz) 130Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : Silex technology, Inc.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAN
S/N : 008092011314
Power : DC3.3V (PC input AC120V / 60Hz)
Mode : WLAN 11n, 20HT, Tx, 5825MHz,
130Mbps, Ant 1, 2, 3
Module axis : (Worst) H: Y-axis, V: Y-axis
Antenna axis : (Worst) H: X0-axis, V: X90-axis

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m / 0.5m
Date : 05/27/2008
Temperature : 23deg.C.
Humidity : 53%
Engineer : Takahiro Hatakeda
(1G-26.5GHz)
05/30/2008
25 deg.C.
59 %
Takahiro Hatakeda
(26.5G-40GHz)

PK DETECT (RBW: 1MHz VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5850.00	52.5	52.7	32.0	31.1	3.9	0.0	57.3	57.5	73.9	16.6	16.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11650.00	47.0	48.3	39.6	33.0	6.2	0.6	50.9	52.2	73.9	23.0	21.7
3	17475.00	42.7	42.6	42.3	31.6	7.5	0.7	52.1	52.0	73.9	21.8	21.9
4	23300.00	NS	NS	-	-	-	-	-	-	73.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(0.5m)												
5	29125.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	34950.00	38.4	38.5	40.8	25.1	16.7	0.0	55.2	55.3	73.9	18.7	18.6

AV DETECT (RBW: 1MHz VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5850.00	32.8	33.3	32.0	31.1	3.9	0.0	37.6	38.1	53.9	16.3	15.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11650.00	35.0	36.1	39.6	33.0	6.2	0.6	38.9	40.0	53.9	15.0	13.9
3	17475.00	30.4	30.3	42.3	31.6	7.5	0.7	39.8	39.7	53.9	14.1	14.2
4	23300.00	NS	NS	-	-	-	-	-	-	53.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(0.5m)												
5	29125.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	34950.00	25.3	25.4	40.8	25.1	16.7	0.0	42.1	42.2	53.9	11.8	11.7

Test Distance 1.0m : Distance Factor(Dfac(1.0m)) = 20log(3/1.0) 9.54 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) 15.56 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

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Radiated Spurious Emission (above 1GHz)

11n(40HT) Tx Lch(2422MHz) 270Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : Silex technology, Inc.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAN
S/N : 008092011314
Power : DC3.3V (PC input AC120V / 60Hz)
Mode : WLAN 11n 40HT, Tx, 2422MHz,
270Mbps, Ant 1, 2, 3

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : 05/28/2008 05/29/2008
Temperature : 22deg.C. 23deg.C.
Humidity : 59% 60%
Engineer : Takahiro Hatakeda Takahiro Hatakeda

Module axis : Hor Y , Ver Y-axis
Antenna axis : Hor X 0deg , Ver X 90deg

PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.00	71.3	70.0	27.0	32.2	2.8	0.0	68.9	67.6	73.9	5.0	6.3
2**	2400.00	88.0	85.3	27.0	32.1	2.8	0.0	85.7	83.0	73.9	-	-
3**	3229.33	51.4	52.7	28.3	31.7	3.2	0.0	51.2	52.5	73.9	-	-
4	4844.00	40.1	40.2	30.9	30.9	3.8	0.9	44.8	44.9	73.9	29.1	29.0
5	7266.00	41.2	41.2	35.8	32.1	4.7	0.7	50.3	50.3	73.9	23.6	23.6
6	9688.00	42.0	42.0	38.2	32.4	5.7	1.0	54.5	54.5	73.9	19.4	19.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12110.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	14532.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	16954.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	19376.00	NS	NS	-	-	-	-	-	-	73.9	-	-
11	21798.00	NS	NS	-	-	-	-	-	-	73.9	-	-
12	24220.00	46.2	46.4	38.5	31.0	8.5	0.0	52.7	52.9	73.9	21.2	21.0

** Reference data

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	RESULT		Limit	MARGIN	
		HOR	VER					HOR	VER			
	[MHz]	[dBuV]		Factor	GAIN	LOSS	Filter			[dBuV/m]		AV
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.00	53.2	53.4	27.0	32.2	2.8	0.0	50.8	51.0	53.9	3.1	2.9
2**	2400.00	60.6	60.2	27.0	32.1	2.8	0.0	58.3	57.9	53.9	-	-
3**	3229.33	49.0	50.8	28.3	31.7	3.2	0.0	48.8	50.6	53.9	-	-
4	4844.00	27.0	27.0	30.9	30.9	3.8	0.9	31.7	31.7	53.9	22.2	22.2
5	7266.00	28.8	28.9	35.8	32.1	4.7	0.7	37.9	38.0	53.9	16.0	15.9
6	9688.00	28.8	28.8	38.2	32.4	5.7	1.0	41.3	41.3	53.9	12.6	12.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12110.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	14532.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	16954.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	19376.00	NS	NS	-	-	-	-	-	-	53.9	-	-
11	21798.00	NS	NS	-	-	-	-	-	-	53.9	-	-
12	24220.00	32.8	32.8	38.5	31.0	8.5	0.0	39.3	39.3	53.9	14.6	14.6

** Reference data

20dBc (Fundamental) 2422.0 MHz (RBW: 100kHz, VBW: 300kHz)													
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN		
		HOR	VER					HOR	VER		HOR	VER	
		[dBuV]						[dBuV/m]			[dB]		
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac													
0	2422.00	101.3	101.1	27.1	32.1	2.8	0.0	99.1	98.9	-	-	-	
2	2400.00	73.6	70.9	27.0	32.1	2.8	0.0	71.3	68.6	Funda-20dB	7.8	10.3	
3	3229.33	49.6	51.0	28.3	31.7	3.2	0.0	49.4	50.8	Funda-20dB	29.7	28.1	

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

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Radiated Spurious Emission (above 1GHz)

11n(40HT) Tx Mch(2437MHz) 270Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : Silex technology, Inc.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAN
S/N : 008092011314
Power : DC3.3V (PC input AC120V / 60Hz)
Mode : WLAN 11n 40HT, Tx, 2437MHz,
270Mbps, Ant 1, 2, 3

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : 05/28/2008 05/29/2008
Temperature : 22deg.C. 23deg.C.
Humidity : 59% 60%
Engineer : Takahiro Hatakeda Takahiro Hatakeda

Module axis : Hor Y , Ver Y-axis
Antenna axis : Hor X 0deg , Ver X 90deg

PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1**	3249.33	53.5	56.0	28.3	31.7	3.2	0.0	53.3	55.8	73.9	-	-
2	4874.00	40.5	40.9	31.0	30.9	3.8	0.9	45.3	45.7	73.9	28.6	28.2
3	7311.00	41.5	41.7	35.9	32.1	4.7	0.7	50.7	50.9	73.9	23.2	23.0
4	9748.00	41.8	41.6	38.3	32.4	5.8	1.0	54.5	54.3	73.9	19.4	19.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	14622.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	17059.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	19496.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	21933.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	24370.00	45.2	45.6	38.6	31.0	8.5	0.0	51.8	52.2	73.9	22.1	21.7

** Reference data

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1**	3249.33	51.5	54.0	28.3	31.7	3.2	0.0	51.3	53.8	53.9	-	-
2	4874.00	27.0	27.1	31.0	30.9	3.8	0.9	31.8	31.9	53.9	22.1	22.0
3	7311.00	28.9	29.0	35.9	32.1	4.7	0.7	38.1	38.2	53.9	15.8	15.7
4	9748.00	28.8	28.8	38.3	32.4	5.8	1.0	41.5	41.5	53.9	12.4	12.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	14622.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	17059.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	19496.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	21933.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	24370.00	32.1	32.0	38.6	31.0	8.5	0.0	38.7	38.6	53.9	15.2	15.3

** Reference data

20dBc (Fundamental 2437.0 MHz) (RBW: 100kHz, VBW: 300kHz)													
No.	FREQ [MHz]	S/A READING [dBuV]		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT [dBuV/m]		Limit 20dBc [dBuV/m]	MARGIN [dB]		
		HOR	VER					HOR	VER		HOR	VER	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac													
0	2437.00	102.9	101.7	27.1	32.1	2.9	0.0	100.8	99.6	-	-	-	-
1	3249.33	52.3	54.7	28.3	31.7	3.2	0.0	52.1	54.5	Funda-20dB	28.7	25.1	-

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

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Radiated Spurious Emission (above 1GHz)

11n(40HT) Tx Hch(2452MHz) 270Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : Silex technology, Inc.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAN
S/N : 008092011314
Power : DC3.3V (PC input AC120V / 60Hz)
Mode : WLAN 11n 40HT, Tx, 2452MHz,
270Mbps, Ant 1, 2, 3

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : 05/28/2008 05/29/2008
Temperature : 22deg.C. 23deg.C.
Humidity : 59% 60%
Engineer : Takahiro Hatakeda Takahiro Hatakeda

Module axis : Hor Y , Ver Y-axis
Antenna axis : Hor X 0deg , Ver X 90deg

PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ	S/A READING		ANT Factor	AMP GAIN	CABLE LOSS	Hi-Pass Filter	RESULT		Limit PK	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
	[MHz]	[dBuV]						[dB/m]	[dB]		[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.50	72.5	73.2	27.2	32.1	2.9	0.0	70.5	71.2	73.9	3.4	2.7
2**	3269.33	52.4	55.3	28.3	31.7	3.2	0.0	52.2	55.1	73.9	-	-
3	4904.00	39.6	40.4	31.0	30.9	3.8	0.9	44.4	45.2	73.9	29.5	28.7
4	7356.00	42.0	42.9	36.0	32.1	4.7	0.7	51.3	52.2	73.9	22.6	21.7
5	9808.00	42.2	42.1	38.3	32.4	5.9	1.0	55.0	54.9	73.9	18.9	19.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12260.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	14712.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	17164.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	19616.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	22068.00	NS	NS	-	-	-	-	-	-	73.9	-	-
11	24520.00	45.8	46.0	38.7	31.0	8.5	0.0	52.5	52.7	73.9	21.4	21.2

** Reference data

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss										
1	2483.50	54.8	53.6	27.2	32.1	2.9	0.0	52.8	51.6	53.9	1.1	2.3
2**	3269.33	50.1	53.7	28.3	31.7	3.2	0.0	49.9	53.5	53.9	-	-
3	4904.00	26.8	26.9	31.0	30.9	3.8	0.9	31.6	31.7	53.9	22.3	22.2
4	7356.00	28.9	28.9	36.0	32.1	4.7	0.7	38.2	38.2	53.9	15.7	15.7
5	9808.00	28.9	28.9	38.3	32.4	5.9	1.0	41.7	41.7	53.9	12.2	12.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12260.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	14712.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	17164.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	19616.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	22068.00	NS	NS	-	-	-	-	-	-	53.9	-	-
11	24520.00	32.1	32.1	38.7	31.0	8.5	0.0	38.8	38.8	53.9	15.1	15.1

** Reference data

20dBc (Fundamental 2452.0 MHz) (RBW: 100kHz, VBW: 300kHz)													
No.	FREQ	S/A READING		ANT Factor	AMP GAIN	CABLE LOSS	Hi-Pass Filter	RESULT		Limit 20dBc	MARGIN		
		HOR	VER					HOR	VER		HOR	VER	
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]		[dBuV/m]		[dBuV/m]	[dB]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac													
1	2452.00	103.0	101.4	27.2	32.1	2.9	0.0	101.0	99.4	-	-	-	-
2	3269.33	51.1	54.4	28.3	31.7	3.2	0.0	50.9	54.2	Funda-20dB	30.1	25.2	

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

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Radiated Spurious Emission (above 1GHz)

11n(40HT) Tx Lch(5755MHz) 270Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : silex technology, INC.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAN
S/N : 008092011314
Power : DC3.3V (PC input AC120V / 60Hz)
Mode : WLAN 11n, 40HT, Tx, 5755MHz,
270Mbps, Ant 1, 2, 3
Module axis : Hor Y , Ver Y-axis
Antenna axis : Hor X 0deg , Ver X 90deg

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m / 0.5m
Date : 05/28/2008 05/30/2008
Temperature : 22deg.C. 25 deg.C.
Humidity : 71% 59 %
Engineer : Takayuki Shimada Takahiro Hatakeda
(1G-26.5GHz) (26.5G-40GHz)

PK DETECT (RBW: 1MHz VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1**	5725.00	65.4	66.3	31.9	31.0	3.8	0.0	70.1	71.0	73.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11510.00	44.0	44.6	39.8	33.0	6.2	0.6	48.1	48.7	73.9	25.8	25.2
3	17265.00	43.4	43.3	41.8	31.6	7.5	0.7	52.3	52.2	73.9	21.6	21.7
4	23020.00	NS	NS	-	-	-	-	-	-	73.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(0.5m)												
5	28775.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	34530.00	37.9	38.0	40.7	25.2	16.6	0.0	54.4	54.5	73.9	19.5	19.4

** Reference data

AV DETECT (RBW: 1MHz VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1**	5725.00	45.4	44.5	31.9	31.0	3.8	0.0	50.1	49.2	53.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11510.00	31.3	32.3	39.8	33.0	6.2	0.6	35.4	36.4	53.9	18.5	17.5
3	17265.00	31.2	31.1	41.8	31.6	7.5	0.7	40.1	40.0	53.9	13.8	13.9
4	23020.00	NS	NS	-	-	-	-	-	-	53.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(0.5m)												
5	28775.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	34530.00	25.1	25.1	40.7	25.2	16.6	0.0	41.6	41.6	53.9	12.3	12.3

** Reference data

20dBc (Fundamental 5755.0 MHz) (RBW: 100kHz, VBW: 300kHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters, RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5755.00	94.9	93.1	31.9	31.1	3.8	0.0	99.5	97.7	-	-	-
2	5725.00	52.7	52.9	31.9	31.0	3.8	0.0	57.4	57.6	Funda-20dB	22.1	20.1

Test Distance 1.0m : Distance Factor(Dfac(1.0m)) = 20log(3/1.0) = 9.54 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) = 15.56 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

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Radiated Spurious Emission (above 1GHz)

11n(40HT) Tx Hch(5795MHz) 270Mbps, Used Antenna for Tx: Antenna 1 + 2 + 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : silex technology, INC.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAN
S/N : 008092011314
Power : DC3.3V (PC input AC120V / 60Hz)
Mode : WLAN 11n, 40HT, Tx, 5795MHz,
270Mbps, Ant 1, 2, 3
Module axis : Hor Y , Ver Y-axis
Antenna axis : Hor X 0deg , Ver X 90deg

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m / 0.5m
Date : 05/28/2008 05/30/2008
Temperature : 22deg.C. 25 deg.C.
Humidity : 71% 59 %
Engineer : Takayuki Shimada Takahiro Hatakeda
(1G-26.5GHz) (26.5G-40GHz)

PK DETECT (RBW: 1MHz VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1**	5850.00	47.0	45.4	32.0	31.1	3.9	0.0	51.8	50.2	73.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11590.00	43.9	46.0	39.7	33.0	6.2	0.6	47.9	50.0	73.9	26.0	23.9
3	17385.00	42.9	42.8	42.7	31.6	7.5	0.7	52.7	52.6	73.9	21.2	21.3
4	23180.00	NS	NS	-	-	-	-	-	-	73.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(0.5m)												
5	28975.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	34770.00	37.9	37.8	40.8	25.1	16.6	0.0	54.6	54.5	73.9	19.3	19.4

** Reference data

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1**	5850.00	32.2	30.9	32.0	31.1	3.9	0.0	37.0	35.7	53.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11590.00	32.1	33.0	39.7	33.0	6.2	0.6	36.1	37.0	53.9	17.8	16.9
3	17385.00	30.7	30.7	42.7	31.6	7.5	0.7	40.5	40.5	53.9	13.4	13.4
4	23180.00	NS	NS	-	-	-	-	-	-	53.9	-	-
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(0.5m)												
5	28975.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	34770.00	25.1	25.1	40.8	25.1	16.6	0.0	41.8	41.8	53.9	12.1	12.1

** Reference data

20dBc (Fundamental 5795.0 MHz) (RBW: 100kHz, VBW: 300kHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
[dBuV]												
[dBuV/m]												
[dB]												
[dB]												
Test distance 3meters, RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5795.00	92.3	91.9	32.0	31.1	3.9	0.0	97.1	96.7	-	-	-
2	5850.00	37.7	37.0	32.0	31.1	3.9	0.0	42.5	41.8	Funda-20dB	34.6	34.9

Test Distance 1.0m : Distance Factor(Dfac(1.0m)) = 20log(3/1.0) 9.54 dB

Test Distance 0.5m : Distance Factor(Dfac(0.5m)) = 20log(3/0.5) 15.56 dB

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

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

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

*The limit is rounded down to one decimal place.

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

*NS : No detect Signal.

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Radiated Spurious Emission (above 1GHz)
11b/g Rx Mch(2437MHz), Used Antenna for Rx: Antenna 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : silex technology, INC.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAN
S/N : 008092011317
Power : DC3.3V (PC input AC120V / 60Hz)
Mode : WLAN 11b/g Rx, 2437MHz, Ant3
Module axis : Hor Y , Ver Y-axis
Antenna axis : Hor X 0deg , Ver X 90deg

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m
Date : 05/19/2008
Temperature : 23deg.C.
Humidity : 42%
Engineer : Takayuki Shimada

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

PK DE FEQ		[RBW: [MHz] VBW: [MHz]										
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]		[dB]	[dB]
Test distance 3meters. RESULT = Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2437.00	41.1	41.2	27.1	32.1	2.9	0.0	39.0	39.1	73.9	34.9	34.8
2	4874.00	39.7	39.5	31.0	30.9	3.5	0.0	43.3	43.1	73.9	30.6	30.8
3	7311.00	40.5	40.1	35.9	32.1	4.3	0.0	48.6	48.2	73.9	25.3	25.7

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

AV OF TEL		[RBW: [MHz] VSW: [dB]											
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN		
		HOR	VER					HOR	VER		HOR	VER	
		[dBuV]						[dBuV/m]			[dB]		
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss													
1	2437.00	27.5	27.5	27.1	32.1	2.9	0.0	25.4	25.4	53.9	28.5	28.5	
2	4874.00	26.1	26.1	31.0	30.9	3.5	0.0	29.7	29.7	53.9	24.2	24.2	
3	7311.00	26.7	26.7	35.9	32.1	4.3	0.0	34.8	34.8	53.9	19.1	19.1	

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

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

*The limit is rounded down to one decimal place.

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

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Radiated Spurious Emission (above 1GHz)

11a Rx Mch(5785MHz), Used Antenna for Rx: Antenna 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : silex technology, INC.
Equipment : MiniPCI Wireless LAN Board
Model : SX-10WAN
S/N : 008092011317
Power : DC3.3V (PC input AC120V / 60Hz)
Mode : WLAN 11a, Rx, 5785MHz, Ant3
Module axis : Hor Y , Ver Y-axis
Antenna axis : Hor X 0deg , Ver X 90deg

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : 05/18/2008 05/19/2008
Temperature : 24deg.C. 23deg.C.
Humidity : 45% 42%
Engineer : Hisayoshi Sato Takayuki Shimada

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5785.00	38.8	38.7	31.9	31.0	3.8	0.0	43.5	43.4	73.9	30.4	30.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11570.00	40.9	40.8	39.7	33.0	5.6	0.0	43.7	43.6	73.9	30.2	30.3
3	17355.00	41.1	41.0	42.4	31.6	6.9	0.0	49.3	49.2	73.9	24.6	24.7

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5785.00	29.0	29.0	31.9	31.0	3.8	0.0	33.7	33.7	53.9	20.2	20.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
2	11570.00	27.9	27.9	39.7	33.0	5.6	0.0	30.7	30.7	53.9	23.2	23.2
3	17355.00	28.1	28.1	42.4	31.6	6.9	0.0	36.3	36.3	53.9	17.6	17.6

Test Distance 1.0m : Distance Factor(Dfac(1.0m)) = 20log(3/1.0) 9.54 dB

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

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

*The limit is rounded down to one decimal place.

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

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Radiated Spurious Emission (above 1GHz)

11n(20HT) Rx Mch(2437MHz), Used Antenna for Tx: Antenna 1 + 2 + 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	: silex technology, Inc.	Regulation	: FCC15.247(d) / RSS-210 A8.5
Equipment	: MiniPCI Wireless LAN Board	Test Distance	: 3m
Model	: SX-10WAN	Date	: 05/28/2008
S/N	: 008092011314	Temperature	: 22deg.C.
Power	: DC3.3V (PC input AC120V / 60Hz)	Humidity	: 59%
Mode	: WLAN 11n 20HT, Rx, 2437MHz, Ant 1, 2, 3	Engineer	: Takahiro Hatakeda
Module axis	: Hor Y , Ver Y-axis		
Antenna axis	: Hor X 0deg , Ver X 90deg		

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

No.		FREQ		S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
				HOR	VER					HOR	VER		HOR	VER
[MHz]				[dBuV]						[dBuV/m]		[dB]		
Test distance 3meters. RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss														
1	2437.00	42.4	42.0	27.1	32.1	2.9	0.0	40.3	39.9	73.9	33.6	34.0		
2	4874.00	40.6	40.8	31.0	30.9	3.5	0.0	44.2	44.4	73.9	29.7	29.5		
3	7311.00	42.2	42.5	35.9	32.1	4.3	0.0	50.3	50.6	73.9	23.6	23.3		

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2437.00	28.1	28.0	27.1	32.1	2.9	0.0	26.0	25.9	53.9	27.9	28.0
2	4874.00	27.0	27.0	31.0	30.9	3.5	0.0	30.6	30.6	53.9	23.3	23.3
3	7311.00	28.8	28.9	35.9	32.1	4.3	0.0	36.9	37.0	53.9	17.0	16.9

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

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

*The limit is rounded down to one decimal place.

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

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Radiated Spurious Emission (above 1GHz)

11n(20HT) Rx Mch(5785MHz), Used Antenna for Rx: Antenna 1 + 2 + 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	: silex technology, Inc.	Regulation	: FCC15.247(d) / RSS-210 A8.5
Equipment	: MiniPCI Wireless LAN Board	Test Distance	: 3m / 1m
Model	: SX-10WAN	Date	: 05/28/2008 05/29/2008
S/N	: 008092011314	Temperature	: 22deg.C. 23deg.C.
Power	: DC3.3V (PC input AC120V / 60Hz)	Humidity	: 71% 60%
Mode	: WLAN 11n, 20HT, Rx, 5785MHz, Ant 1, 2, 3	Engineer	: Takayuki Shimada Takahiro Hatakeda
Module axis	: Hor Y , Ver Y-axis		
Antenna axis	: Hor X 0deg , Ver X 90deg		

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]		[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5785.00	40.3	39.7	31.9	31.1	3.9	0.0	45.0	44.4	73.9	28.9	29.5
2	7713.36	48.5	47.5	36.5	32.4	4.4	0.0	57.0	56.0	73.9	16.9	17.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
3	11570.00	42.6	42.2	39.7	33.0	5.6	0.0	45.4	45.0	73.9	28.5	28.9
4	17355.00	43.5	43.4	42.4	31.6	6.9	0.0	51.7	51.6	73.9	22.2	22.3

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]		[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5785.00	26.7	26.7	31.9	31.1	3.9	0.0	31.4	31.4	53.9	22.5	22.5
2	7713.36	43.5	42.3	36.5	32.4	4.4	0.0	52.0	50.8	53.9	1.9	3.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
3	11570.00	29.2	29.2	39.7	33.0	5.6	0.0	32.0	32.0	53.9	21.9	21.9
4	17355.00	30.3	30.3	42.4	31.6	6.9	0.0	38.5	38.5	53.9	15.4	15.4

Test Distance 1.0m : Distance Factor(Dfac(1.0m)) = 20log(3/1.0) 9.54 dB

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

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

*The limit is rounded down to one decimal place.

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

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Radiated Spurious Emission (above 1GHz)

11n(40HT) Rx Mch(2437MHz), Used Antenna for Rx: Antenna 1 + 2 + 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	: silex technology, Inc.	Regulation	: FCC15.247(d) / RSS-210 A8.5
Equipment	: MiniPCI Wireless LAN Board	Test Distance	: 3m
Model	: SX-10WAN	Date	: 05/28/2008
S/N	: 008092011314	Temperature	: 22deg.C.
Power	: DC3.3V (PC input AC120V / 60Hz)	Humidity	: 59%
Mode	: WLAN 11n 40HT, Rx, 2437MHz, Ant 1, 2, 3	Engineer	: Takahiro Hatakeda
Module axis	: Hor Y , Ver Y-axis		
Antenna axis	: Hor X 0deg , Ver X 90deg		

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2437.00	42.2	42.1	27.1	32.1	2.9	0.0	40.1	40.0	73.9	33.8	33.9
2	4874.00	40.6	40.5	31.0	30.9	3.5	0.0	44.2	44.1	73.9	29.7	29.8
3	7311.00	42.4	42.1	35.9	32.1	4.3	0.0	50.5	50.2	73.9	23.4	23.7

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2437.00	28.0	28.0	27.1	32.1	2.9	0.0	25.9	25.9	53.9	28.0	28.0
2	4874.00	27.1	27.0	31.0	30.9	3.5	0.0	30.7	30.6	53.9	23.2	23.3
3	7311.00	28.9	28.9	35.9	32.1	4.3	0.0	37.0	37.0	53.9	16.9	16.9

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

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

*The limit is rounded down to one decimal place.

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

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Radiated Spurious Emission (above 1GHz)

11n(40HT) Rx Hch(5795MHz), Used Antenna for Rx: Antenna 1 + 2 + 3

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	: silex technology, Inc.	Regulation	: FCC15.247(d) / RSS-210 A8.5
Equipment	: MiniPCI Wireless LAN Board	Test Distance	: 3m / 1m
Model	: SX-10WAN	Date	: 05/28/2008 05/29/2008
S/N	: 008092011314	Temperature	: 22deg.C. 23deg.C.
Power	: DC3.3V (PC input AC120V / 60Hz)	Humidity	: 71% 60%
Mode	: WLAN 11n, 40HT, Rx, 5795MHz, Ant 1, 2, 3	Engineer	: Takayuki Shimada Takahiro Hatakeda
Module axis	: Hor Y , Ver Y-axis		
Antenna axis	: Hor X 0deg , Ver X 90deg		

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

PK DETECT		(RdB, mVLE, dVw, mVLE)										
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5795.00	39.5	39.0	32.0	31.1	3.9	0.0	44.3	43.8	73.9	29.6	30.1
2	7726.74	46.8	47.2	36.5	32.4	4.4	0.0	55.3	55.7	73.9	18.6	18.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
3	11590.00	42.6	42.4	39.7	33.0	5.6	0.0	45.4	45.2	73.9	28.5	28.7
4	17385.00	43.7	43.8	42.7	31.6	6.9	0.0	52.2	52.3	73.9	21.7	21.6

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	5795.00	25.3	25.5	32.0	31.1	3.9	0.0	30.1	30.3	53.9	23.8	23.6
2	7726.74	40.5	41.2	36.5	32.4	4.4	0.0	49.0	49.7	53.9	4.9	4.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac(1.0m)												
3	11590.00	29.2	29.2	39.7	33.0	5.6	0.0	32.0	32.0	53.9	21.9	21.9
4	17385.00	30.1	30.2	42.7	31.6	6.9	0.0	38.6	38.7	53.9	15.3	15.2

Test Distance 1.0m : Distance Factor(Dfac(1.0m)) = 20log(3/1.0) 9.54 dB

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

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

*The limit is rounded down to one decimal place.

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

UL Japan, Inc.

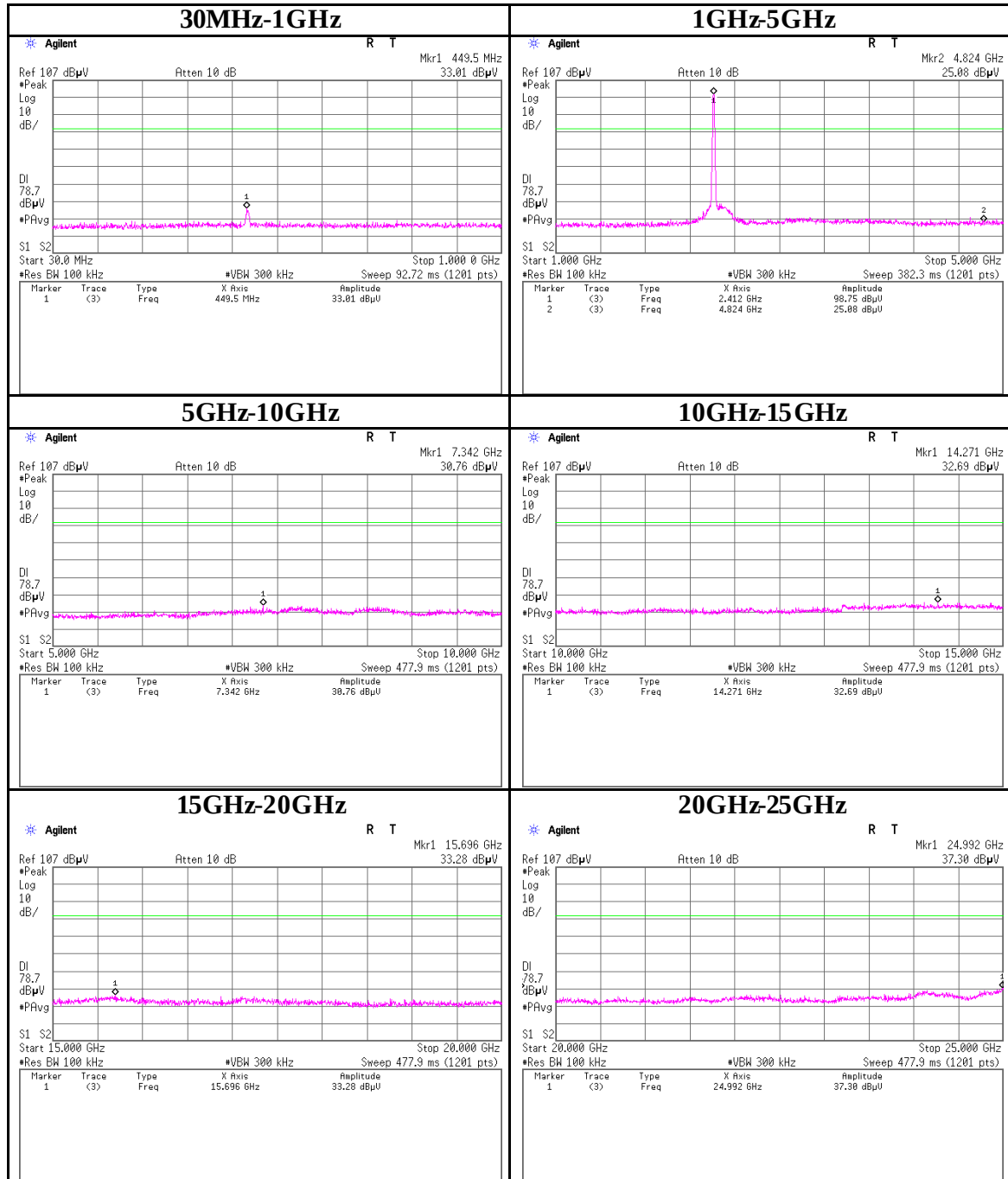
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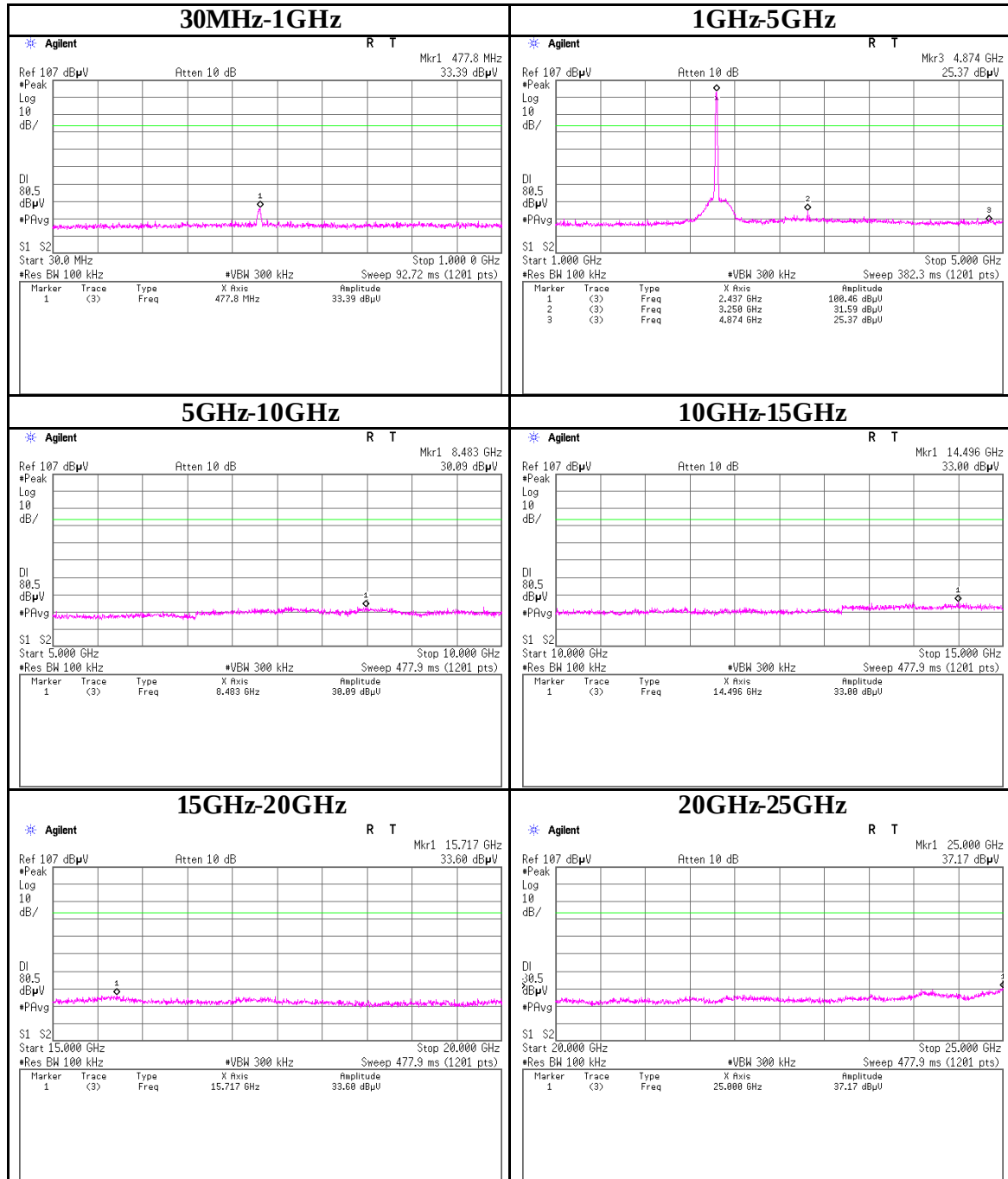
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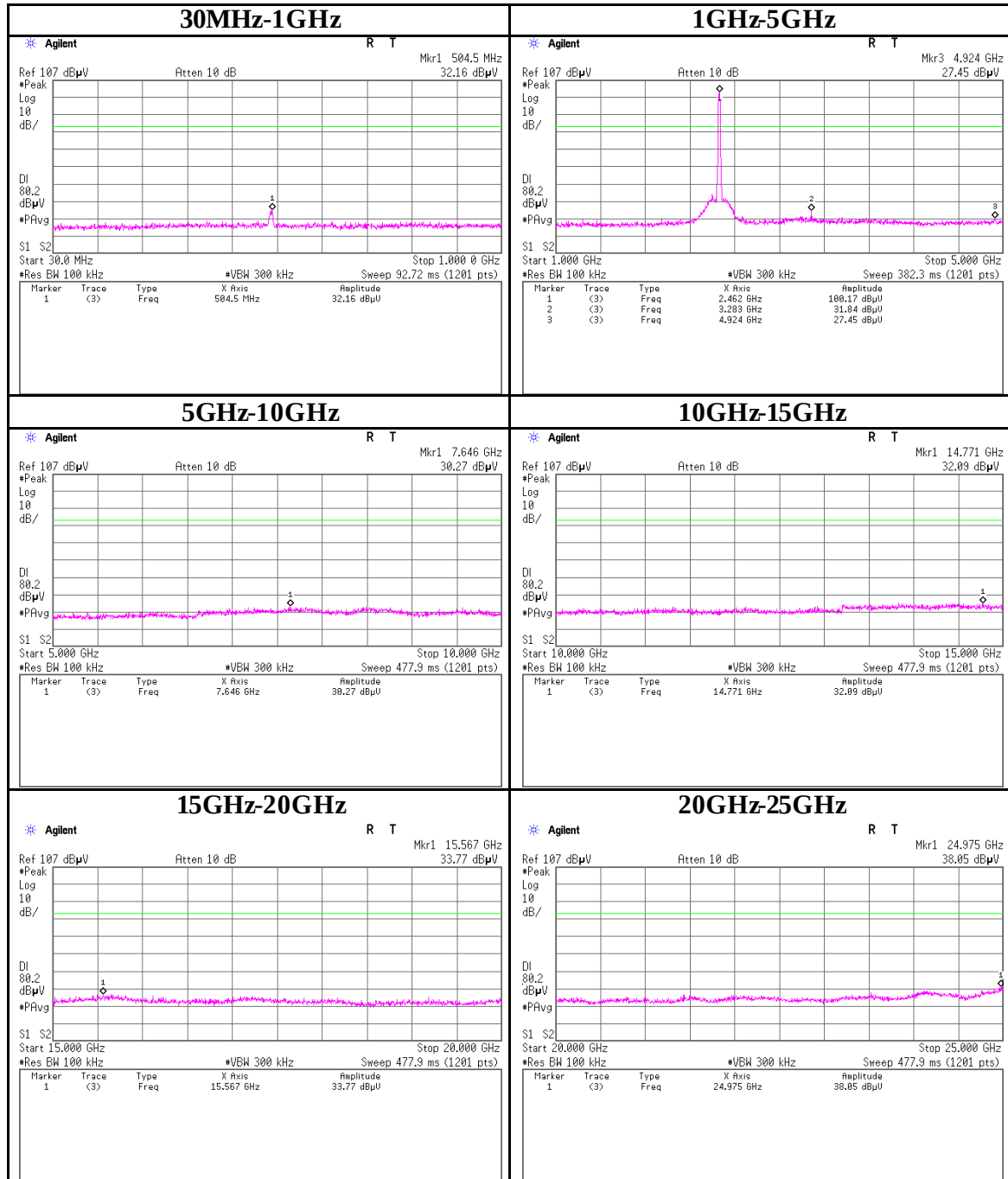
Conducted Spurious Emission
11b Tx 11Mbps Lch(2412MHz) Antenna 3



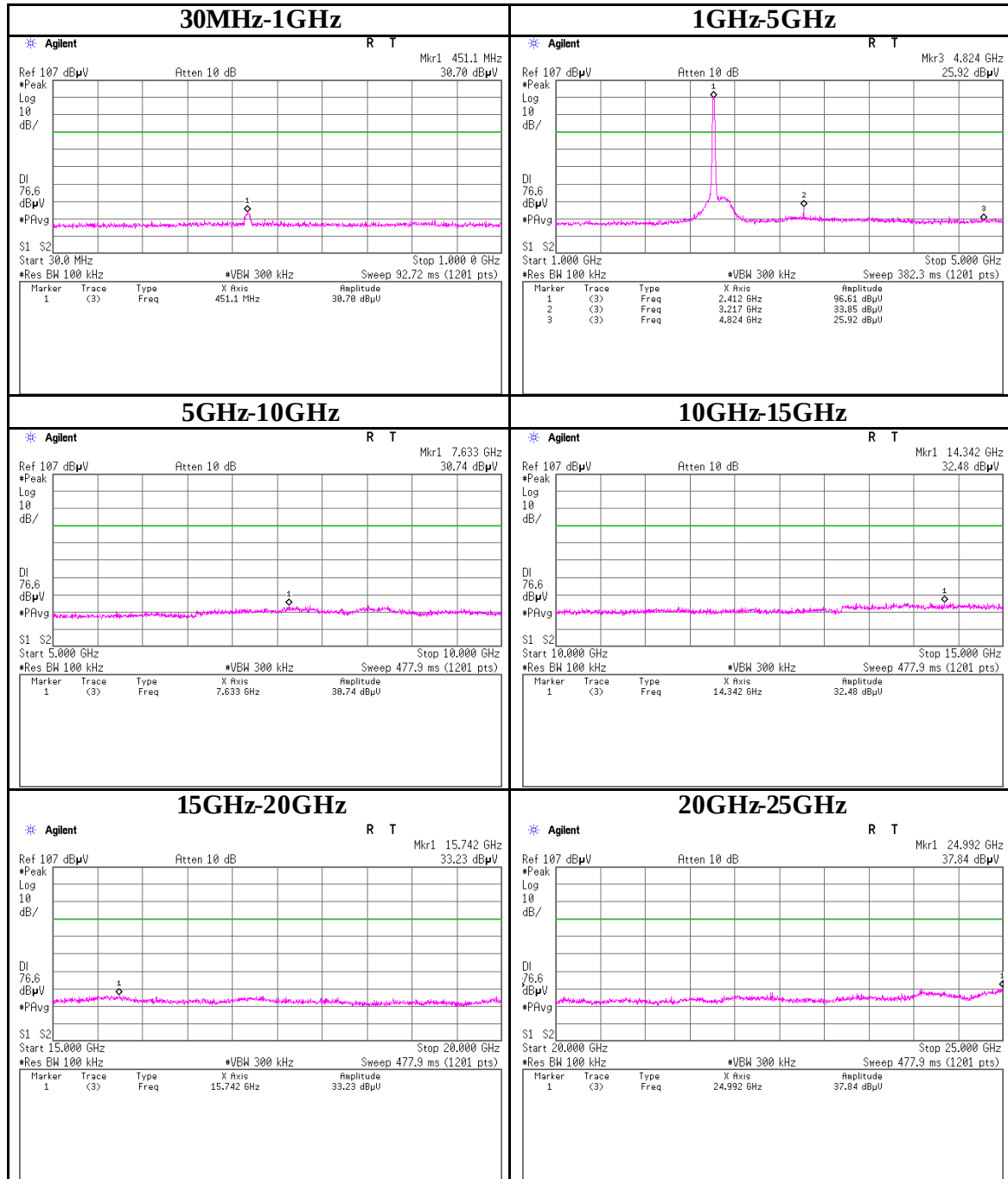
Conducted Spurious Emission
11b Tx 11Mbps Mch(2437MHz) Antenna 3



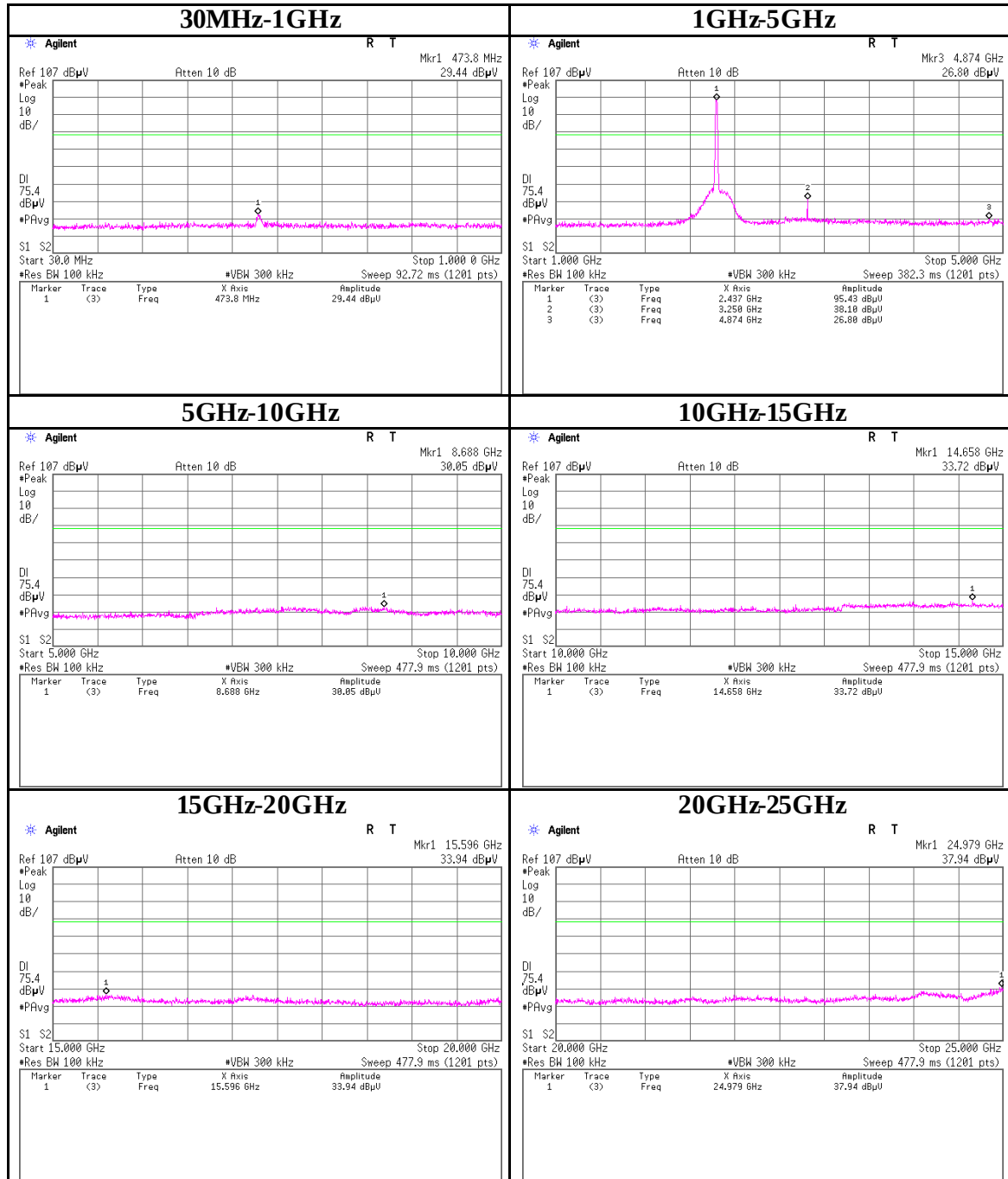
Conducted Spurious Emission
11b Tx 11Mbps Hch(2462MHz) Antenna 3



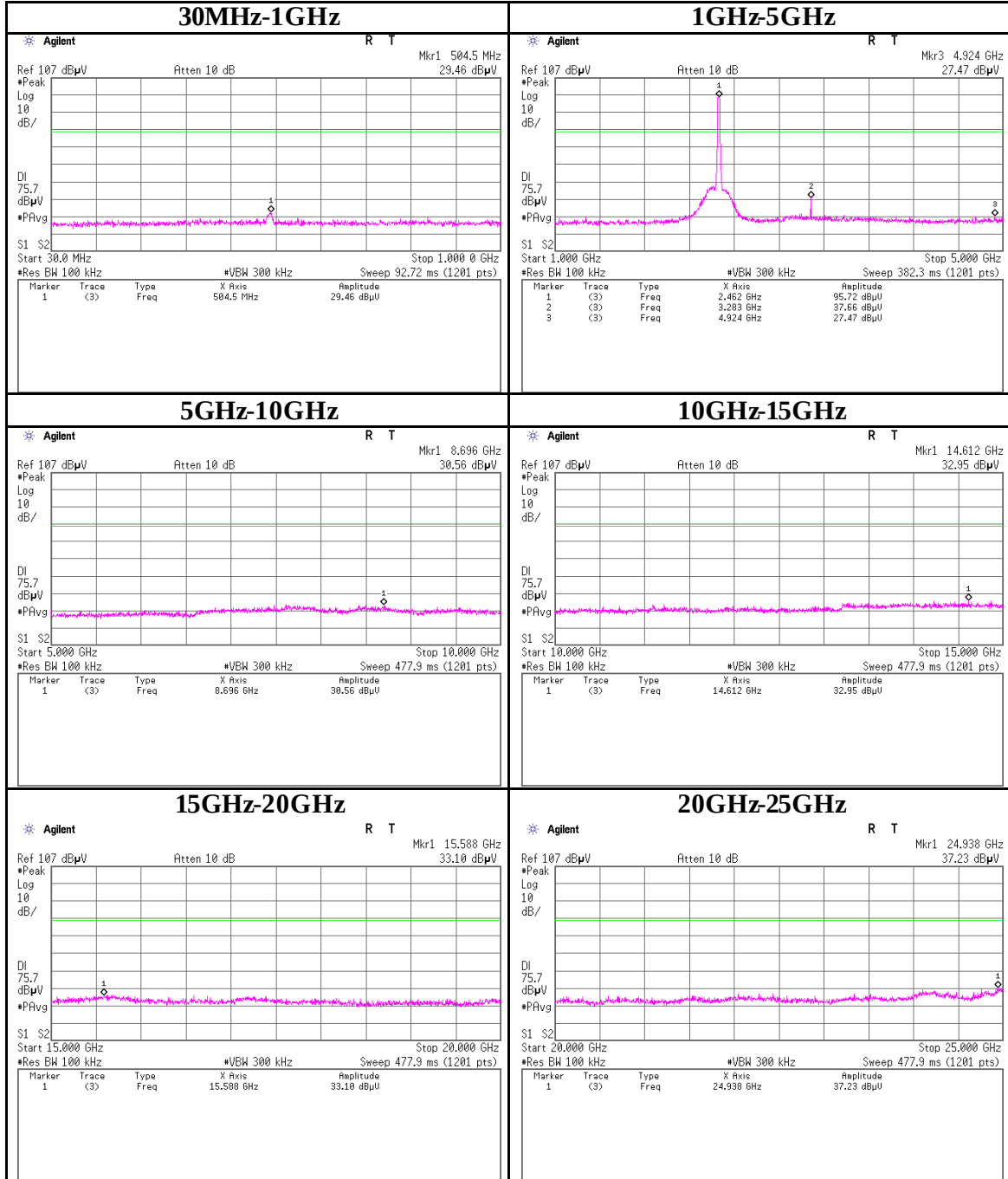
Conducted Spurious Emission
11g Tx 54Mbps Lch(2412MHz) Antenna 3



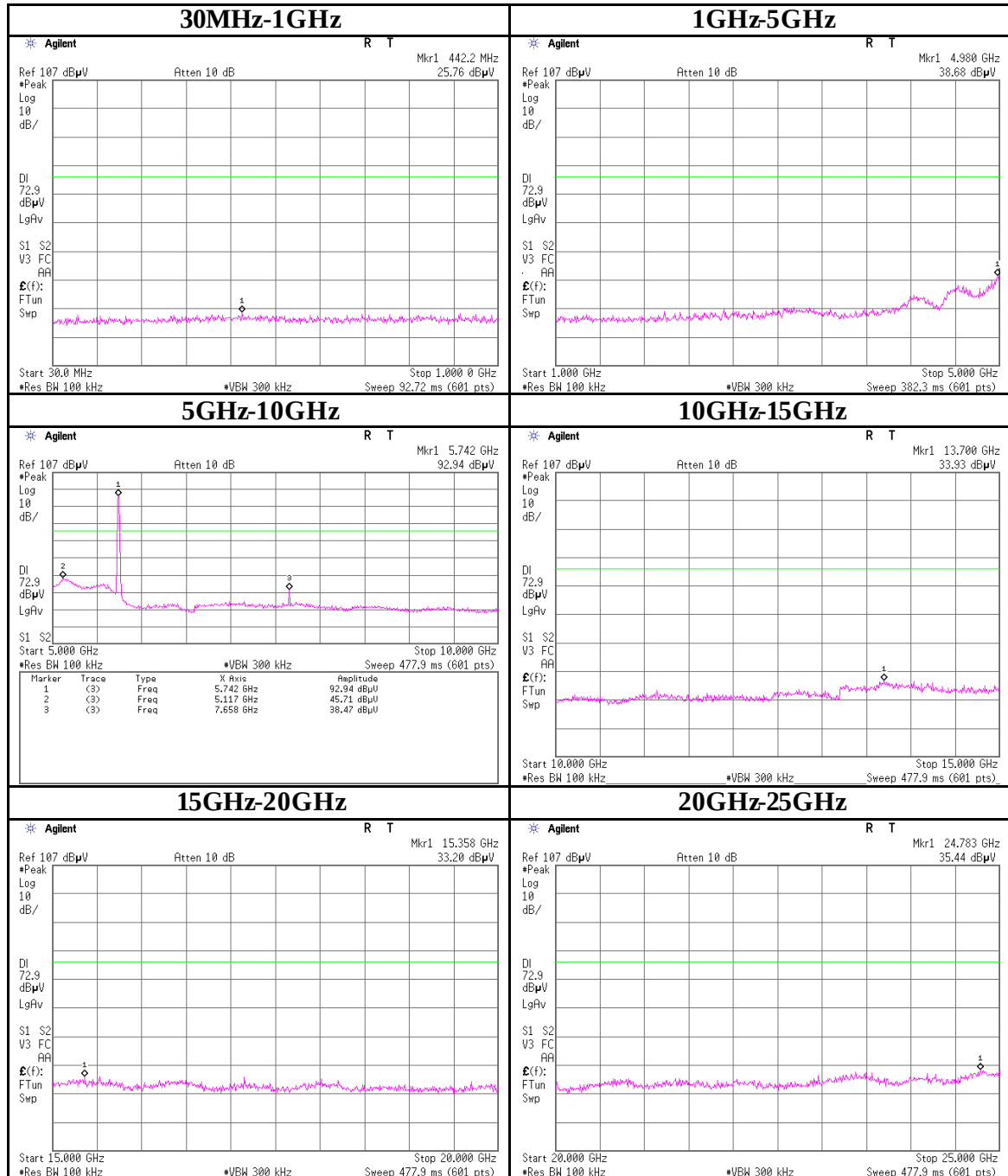
Conducted Spurious Emission
11g Tx 54Mbps Mch(2437MHz) Antenna 3

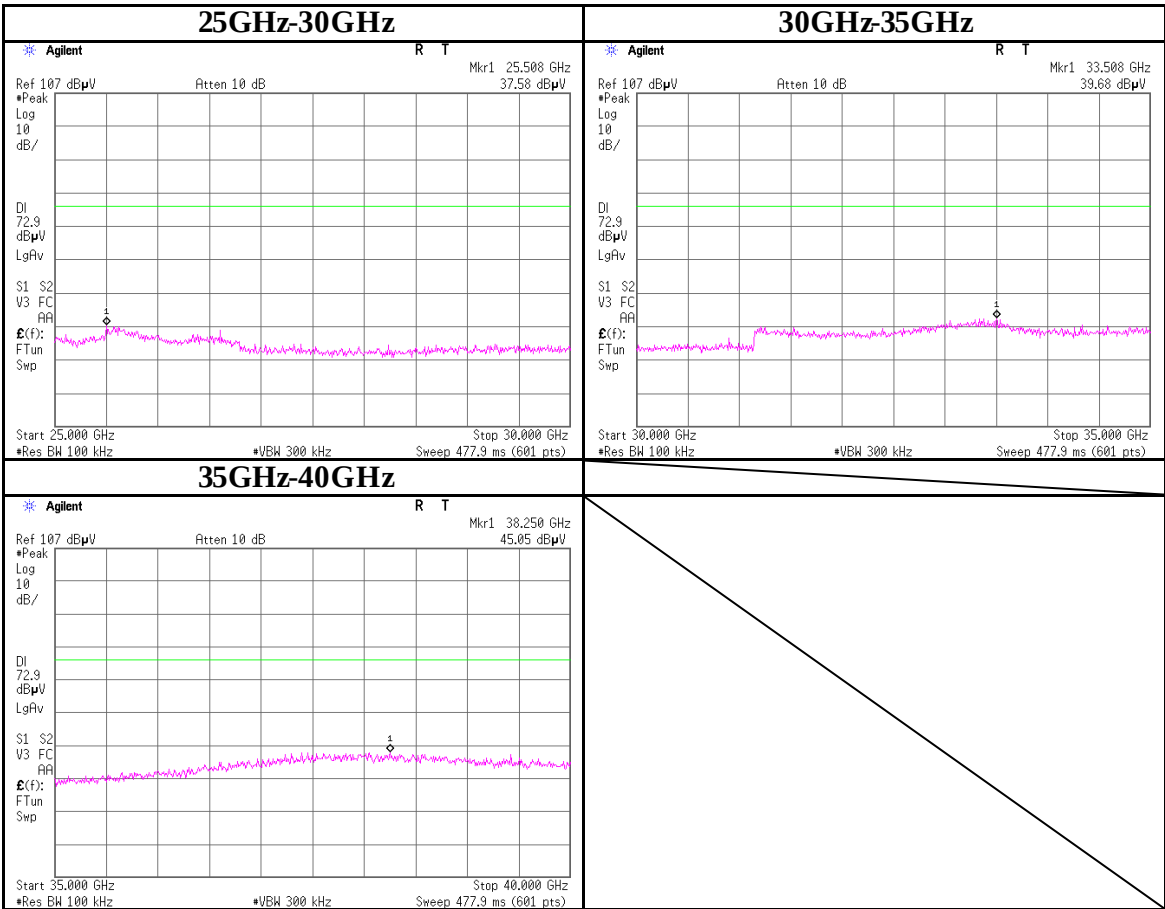


Conducted Spurious Emission
11g Tx 54Mbps Hch(2462MHz) Antenna 3

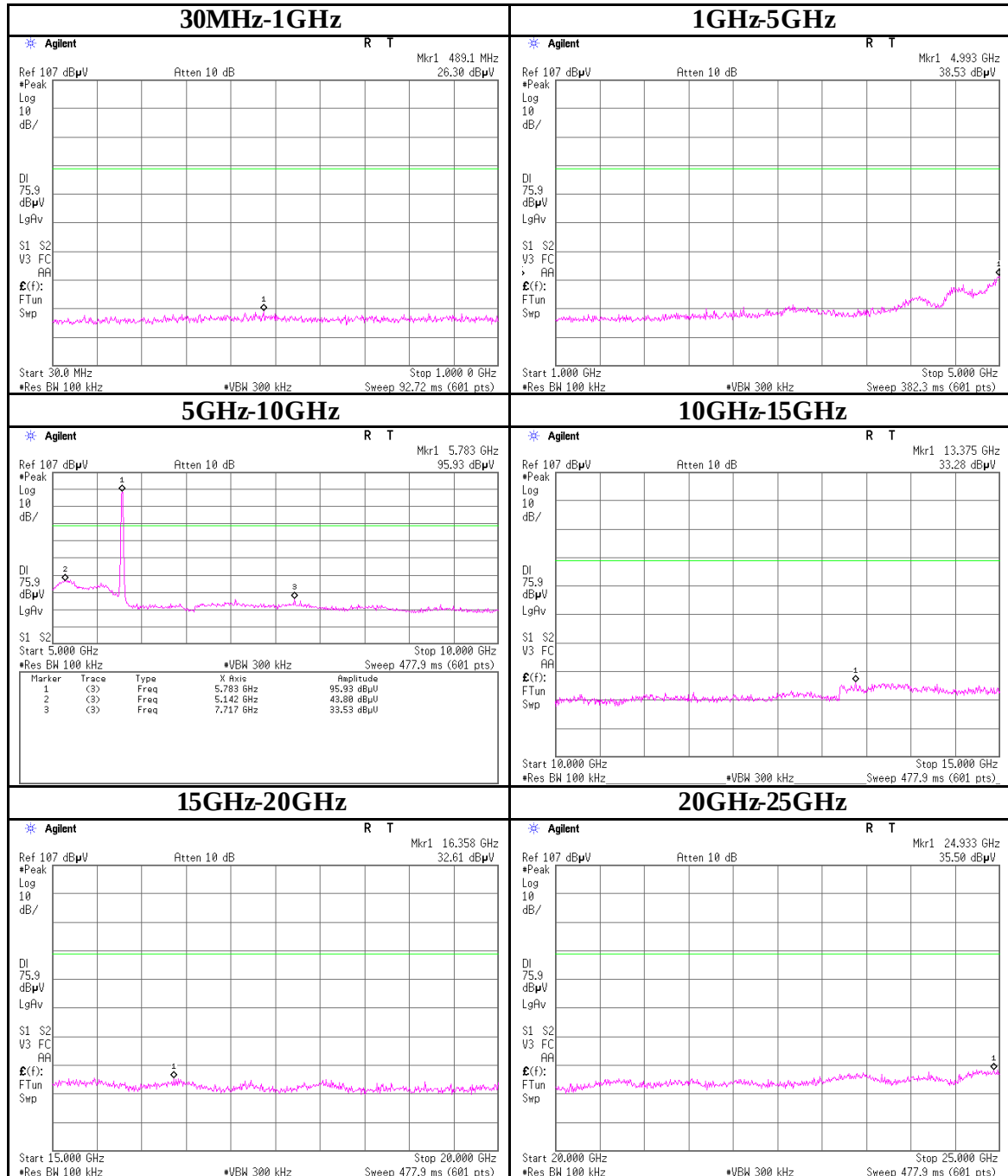


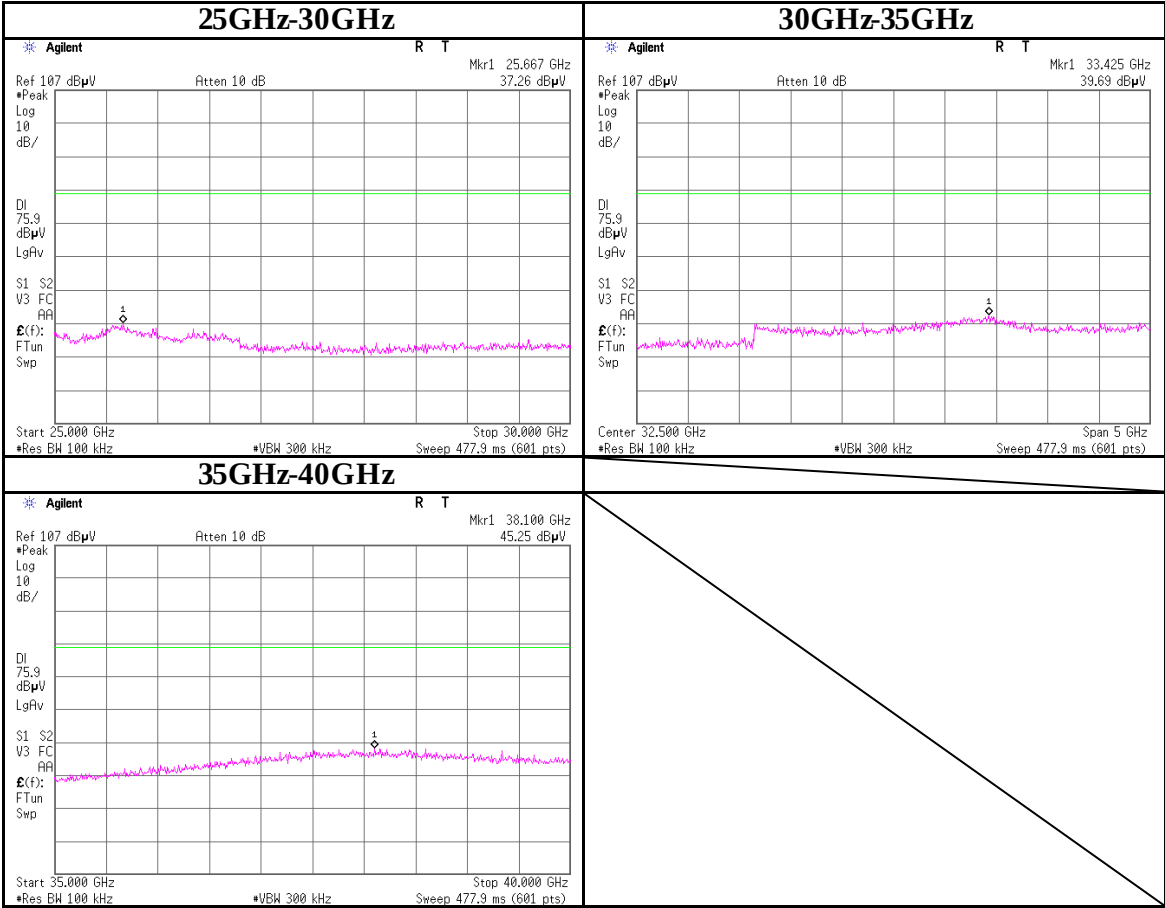
Conducted Spurious Emission
11a Tx 54Mbps Lch(5745MHz) Antenna 3



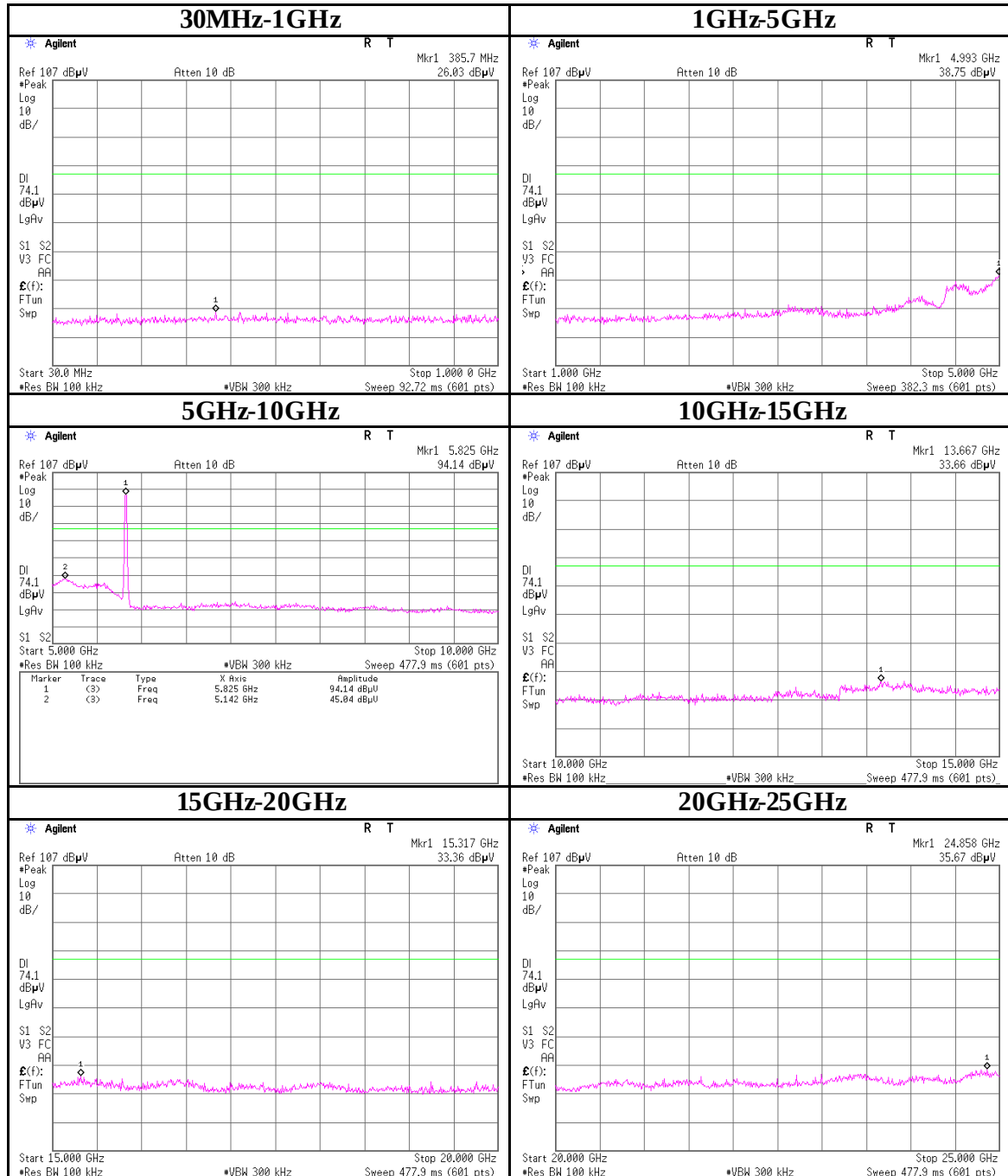


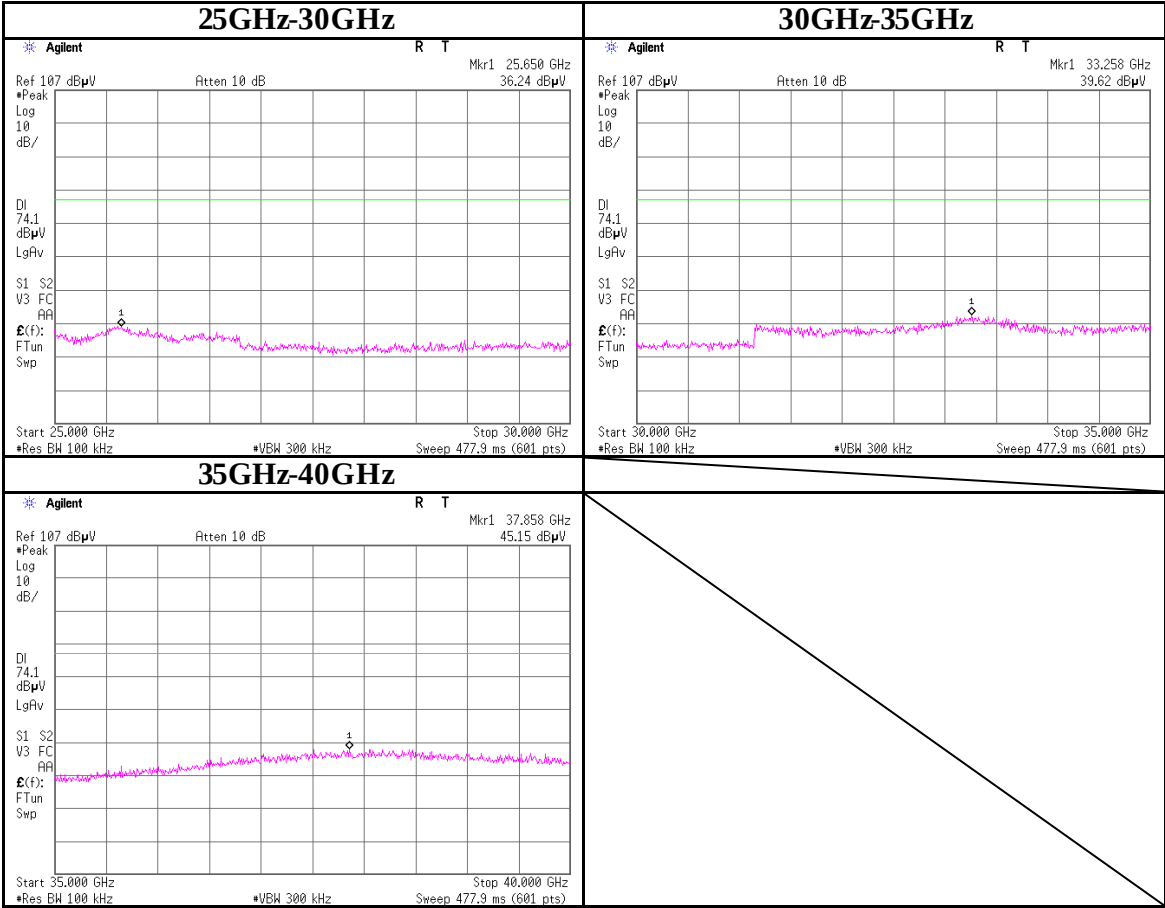
Conducted Spurious Emission
11a Tx 54Mbps Mch(5785MHz) Antenna 3



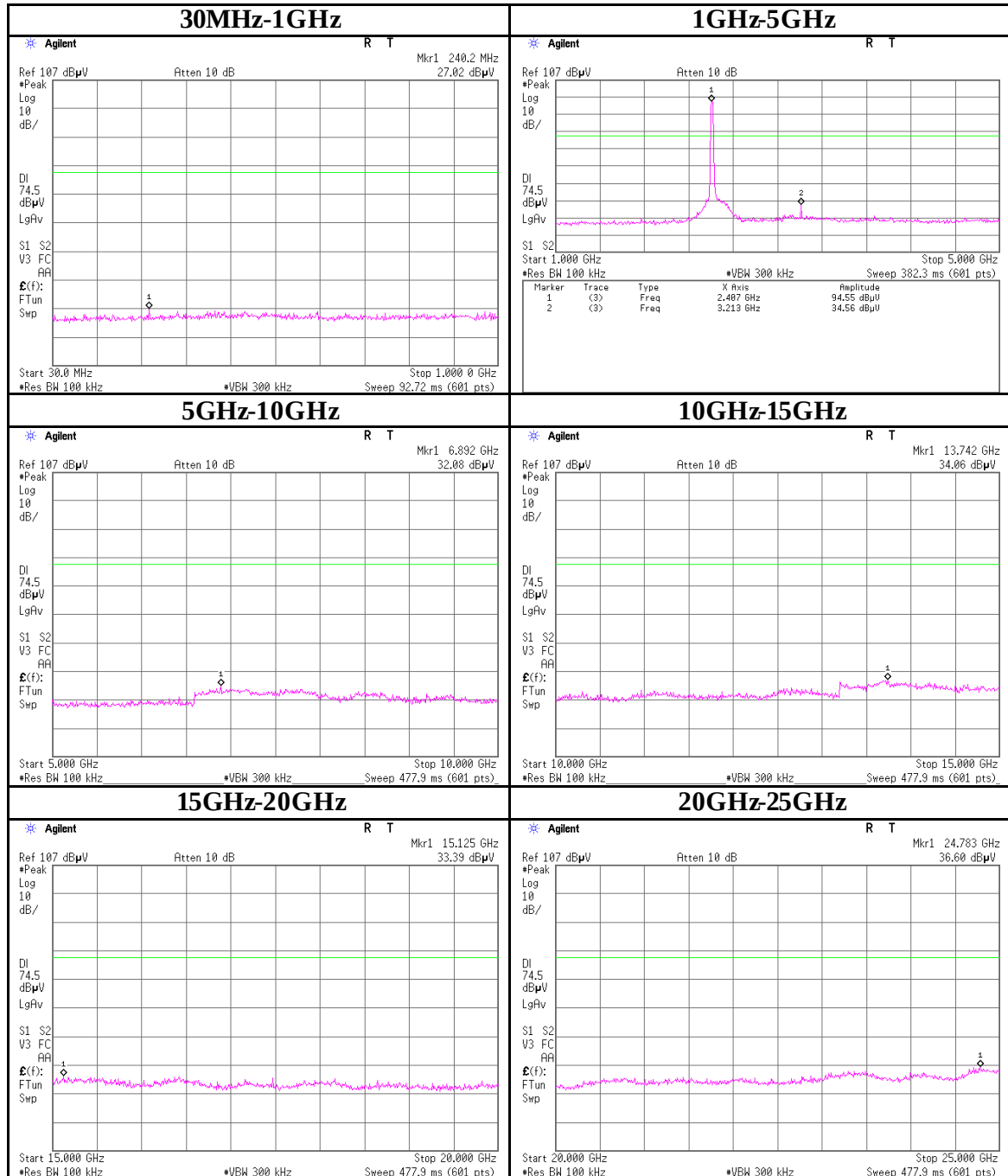


Conducted Spurious Emission
11a Tx 54Mbps Hch(5825MHz) Antenna 3

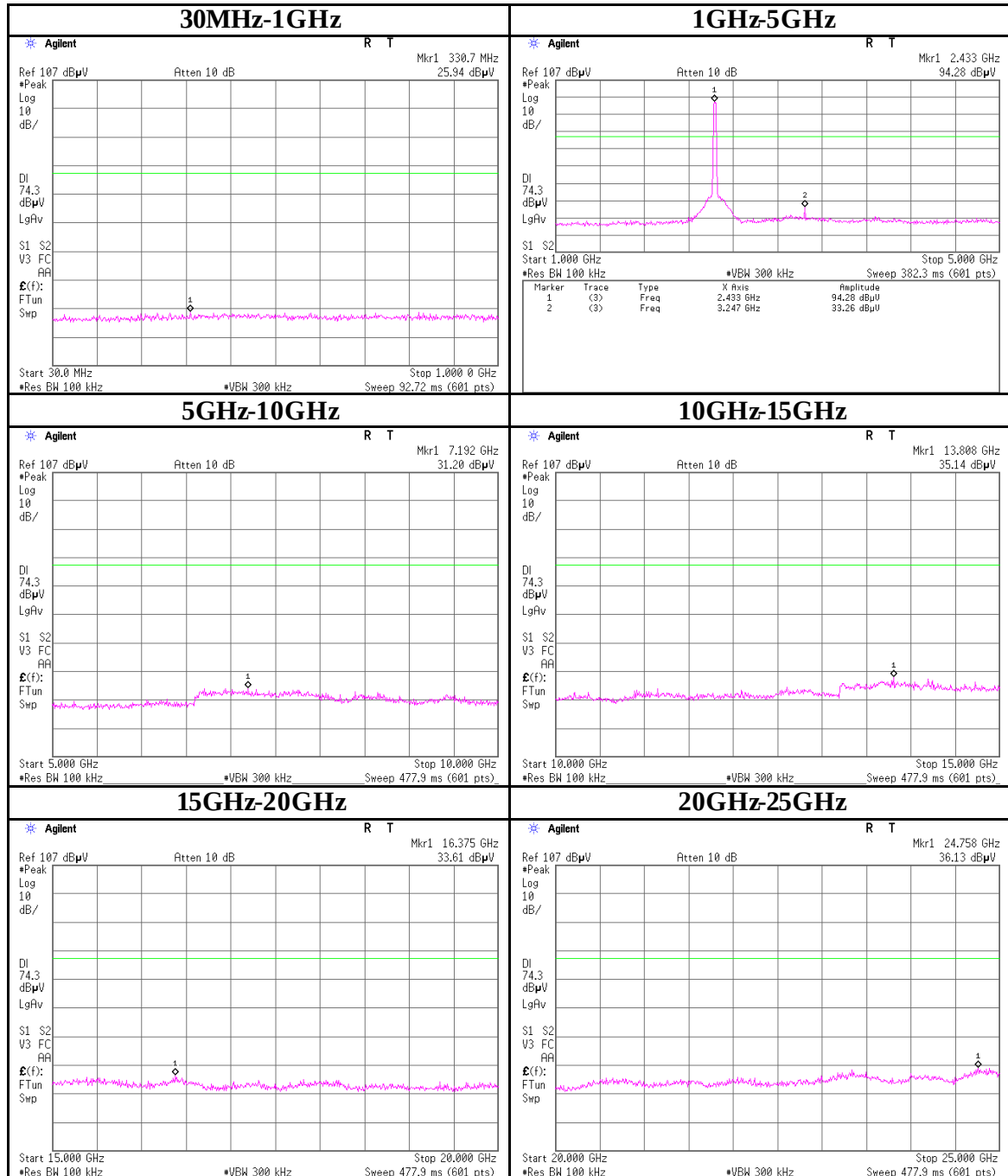




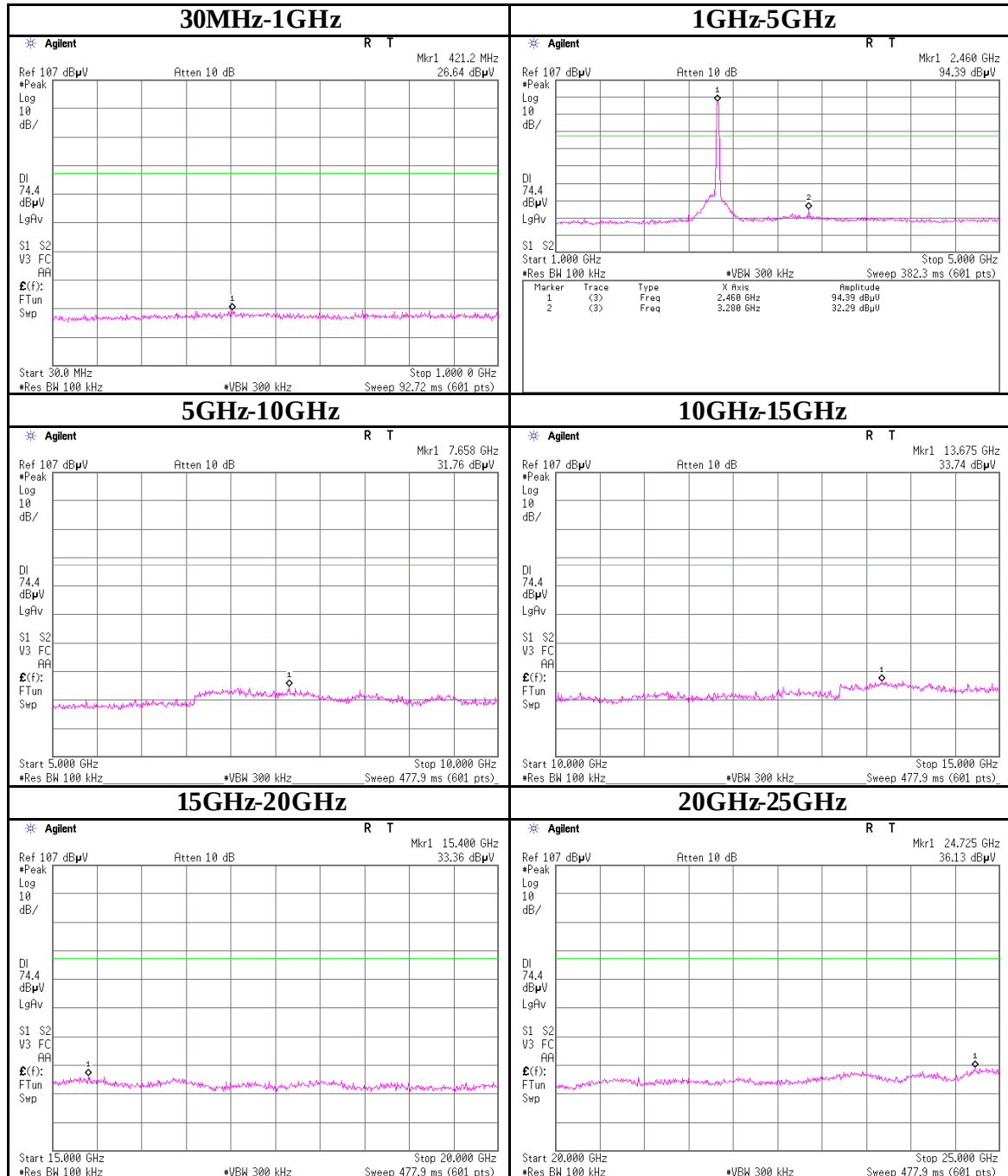
Conducted Spurious Emission
11n(20HT) Tx 130Mbps Lch(2412MHz) Antenna 2



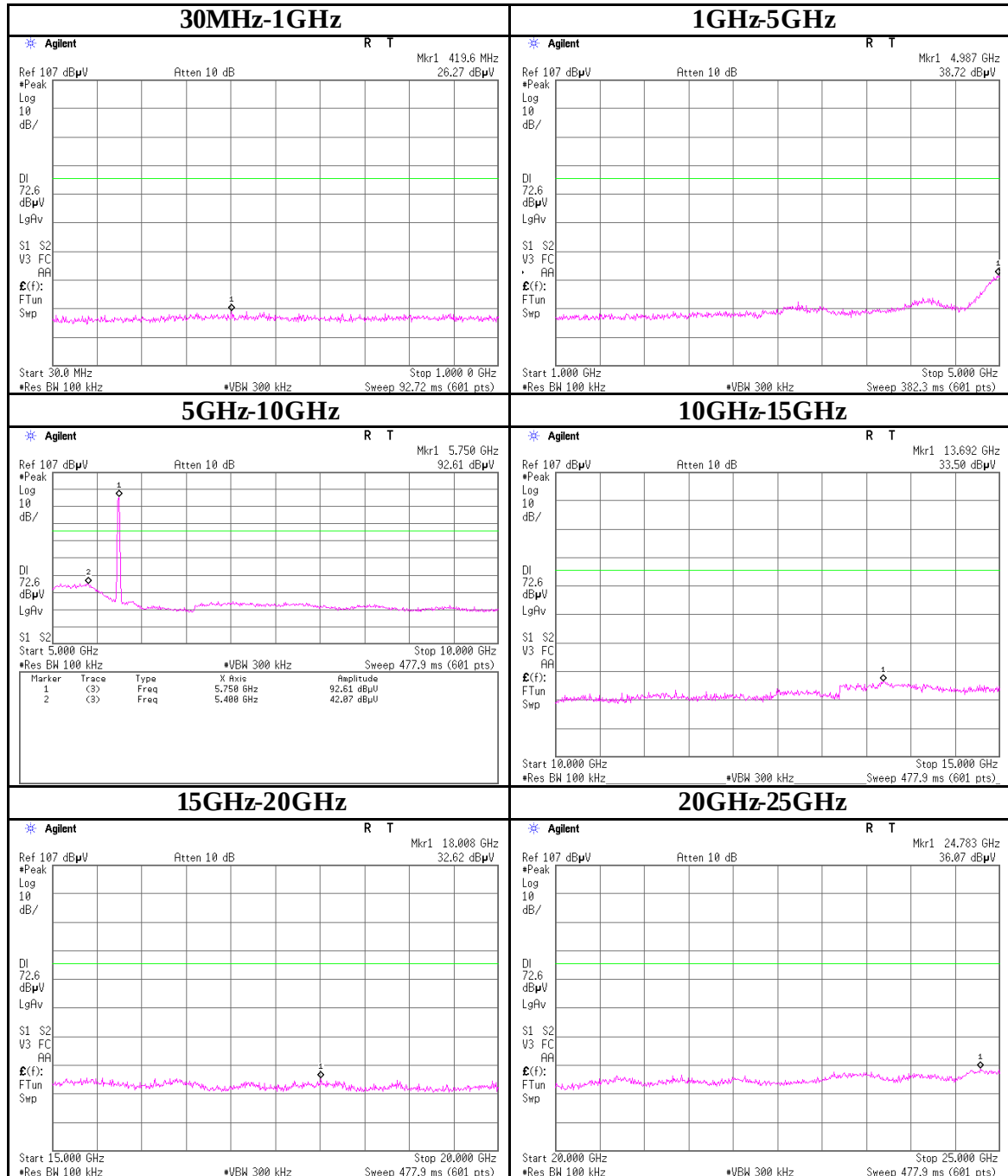
Conducted Spurious Emission
11n(20HT) Tx 130Mbps Mch(2437MHz) Antenna 2

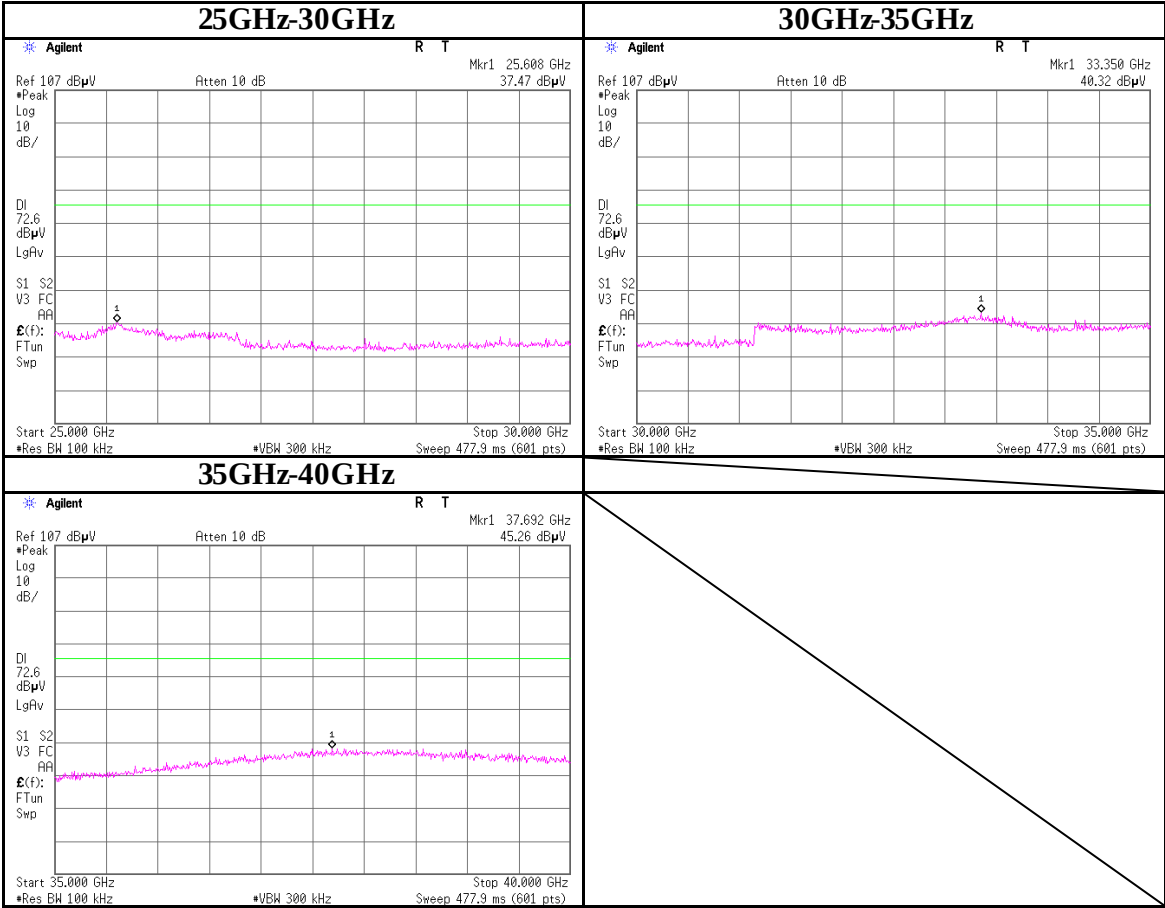


Conducted Spurious Emission
11n(20HT) Tx 130Mbps Hch(2462MHz) Antenna 2

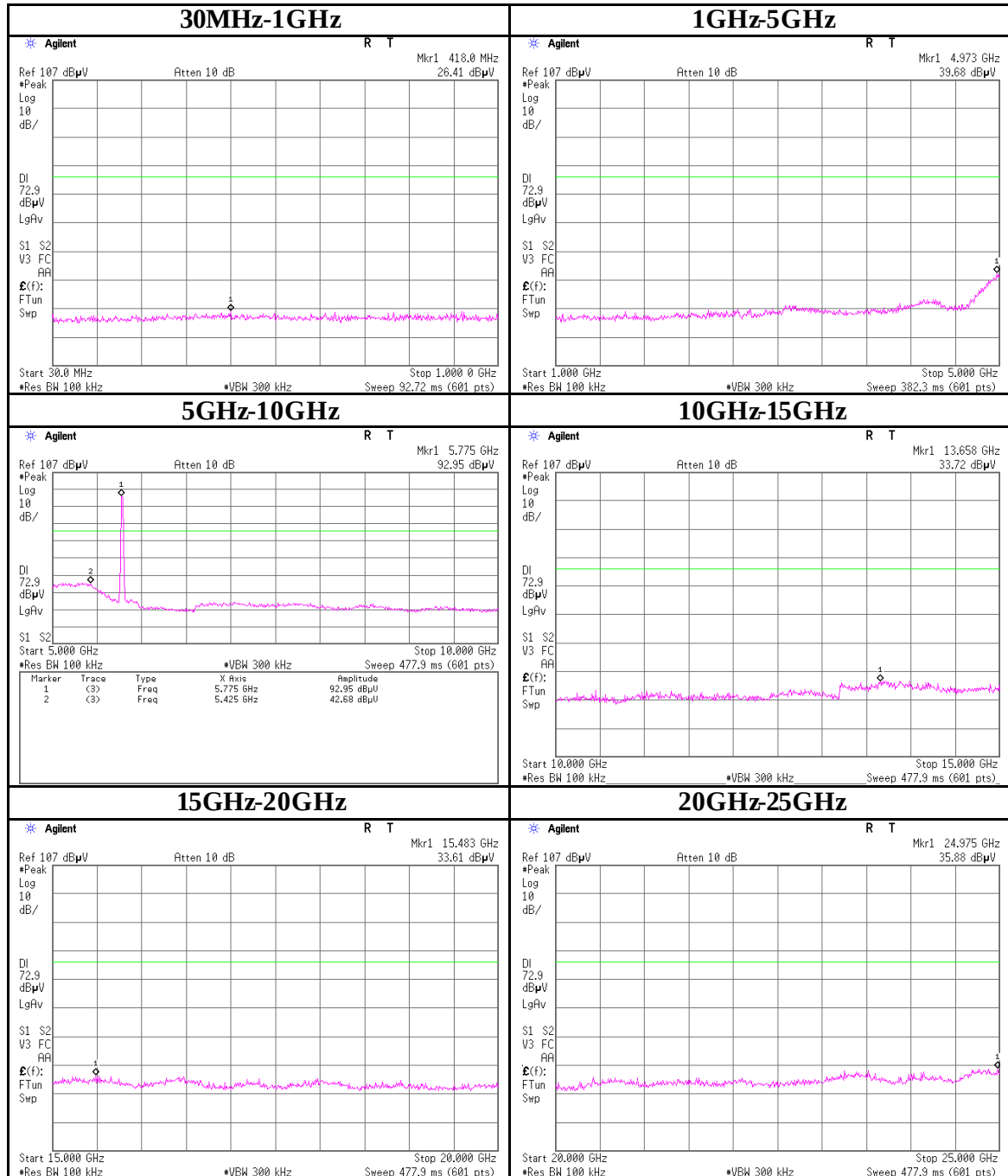


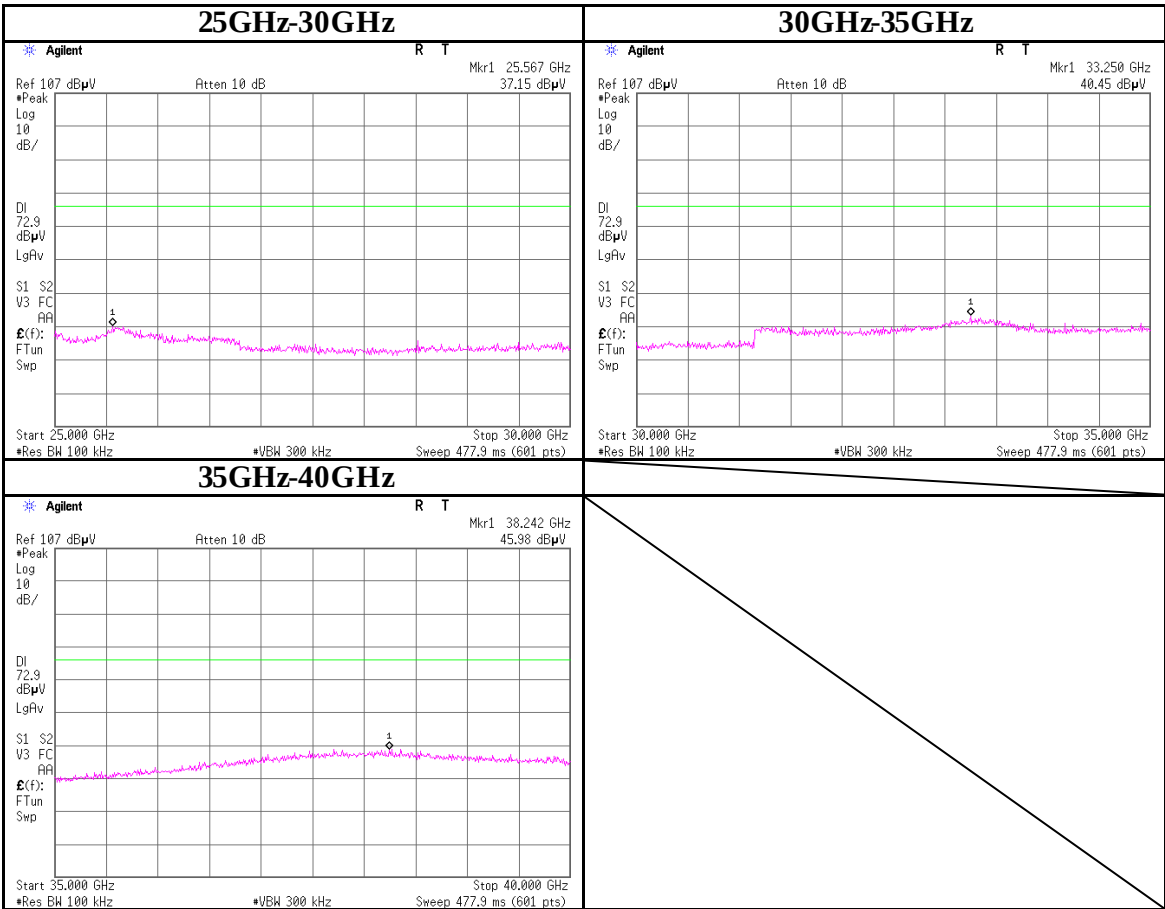
Conducted Spurious Emission
11n(20HT) Tx 130Mbps Lch(5745MHz) Antenna 2



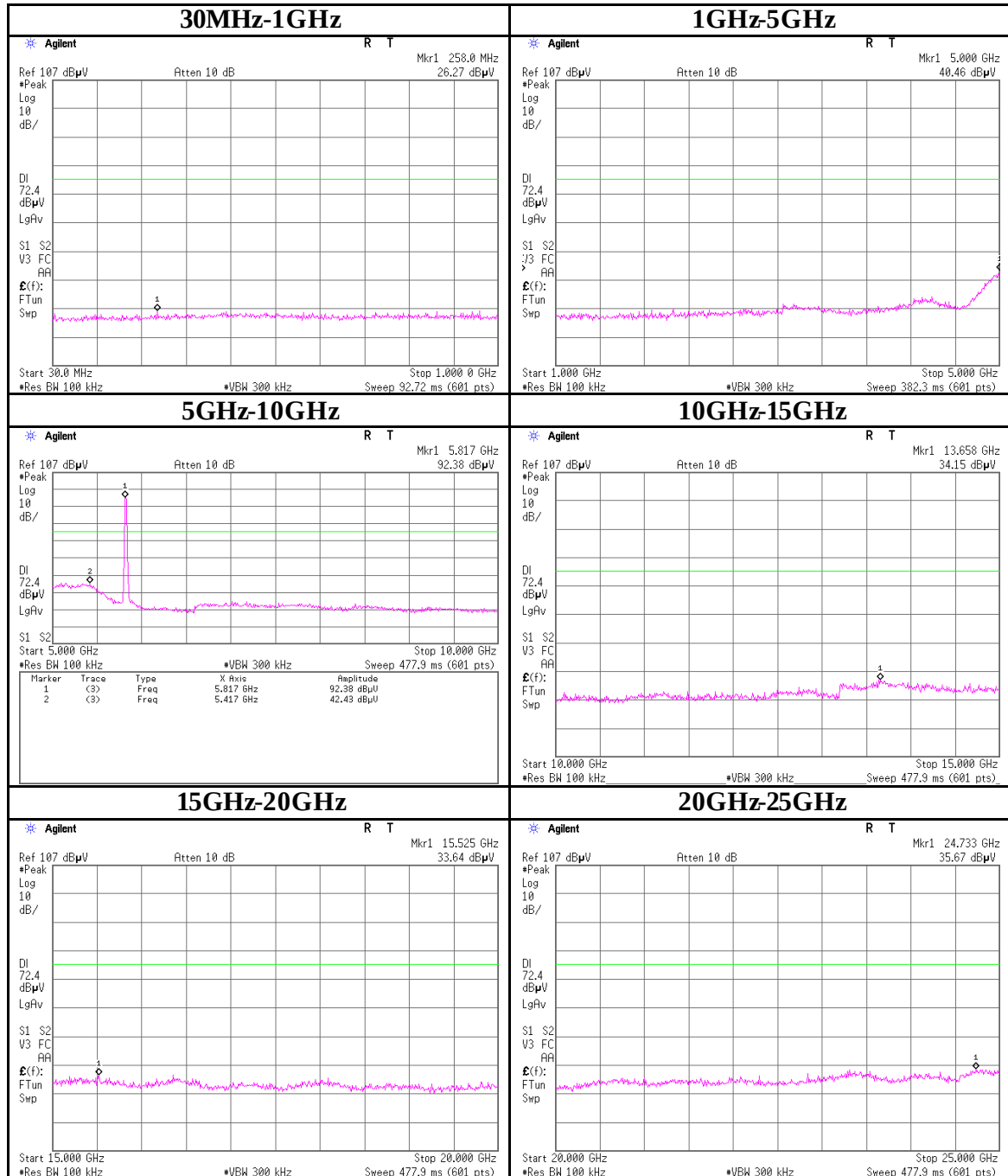


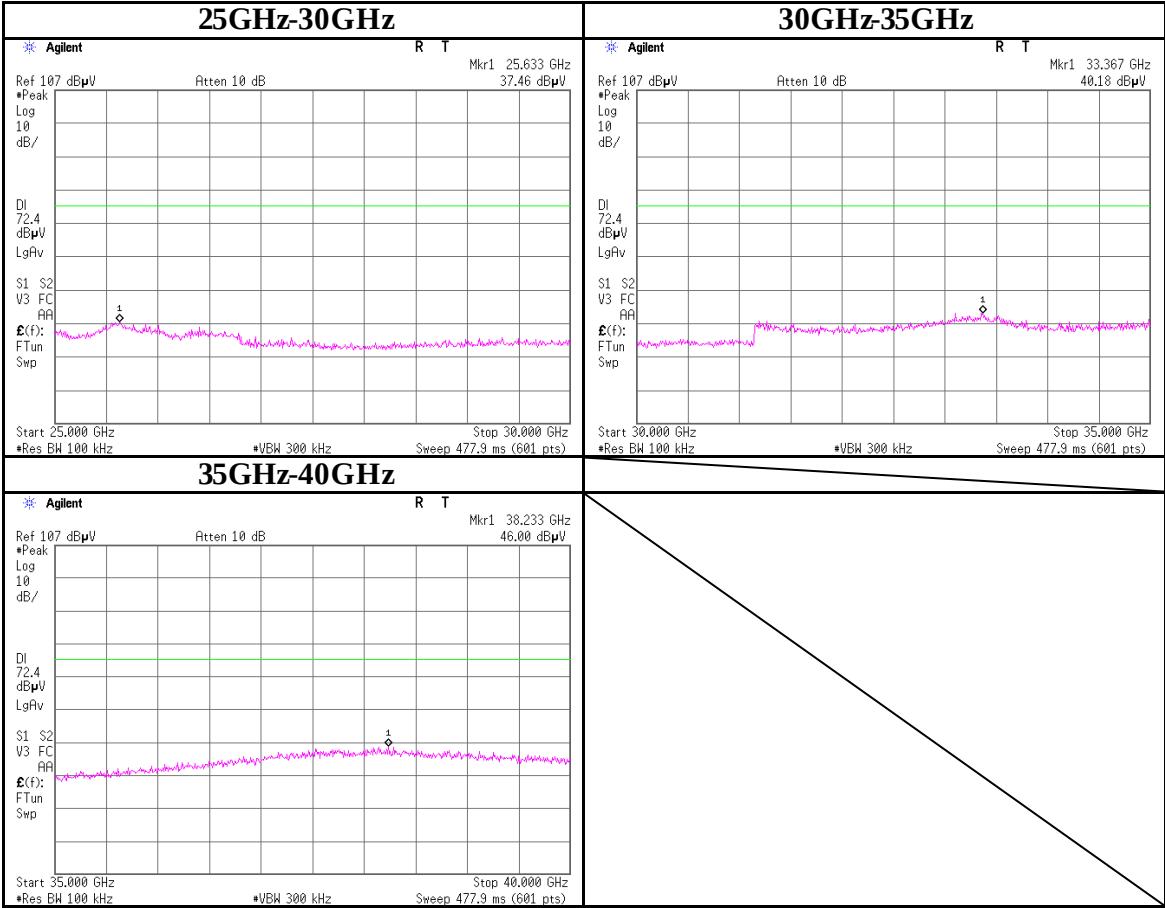
Conducted Spurious Emission
11n(20HT) Tx 130Mbps Mch(5785MHz) Antenna 2



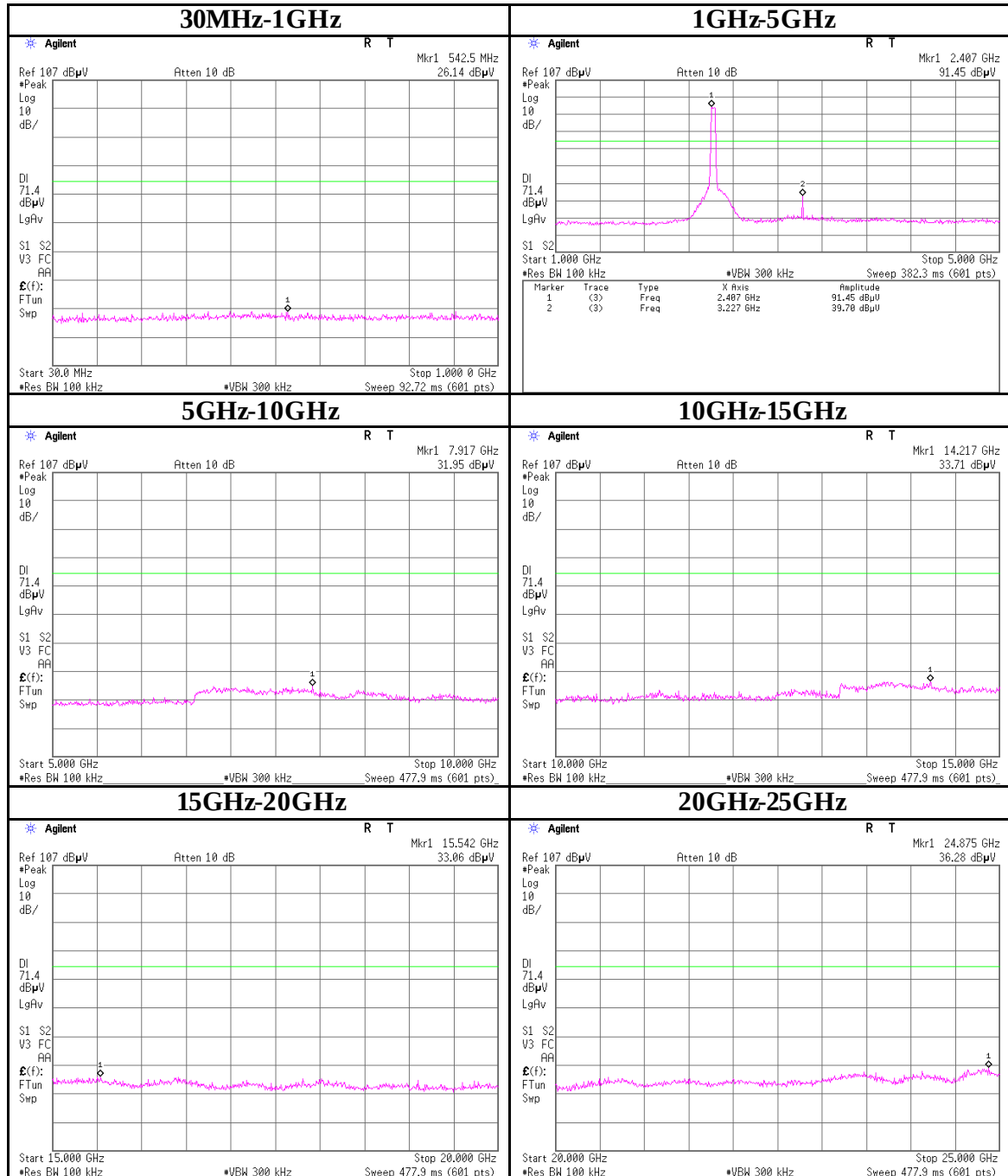


Conducted Spurious Emission
11n(20HT) Tx 130Mbps Hch(5825MHz) Antenna 2

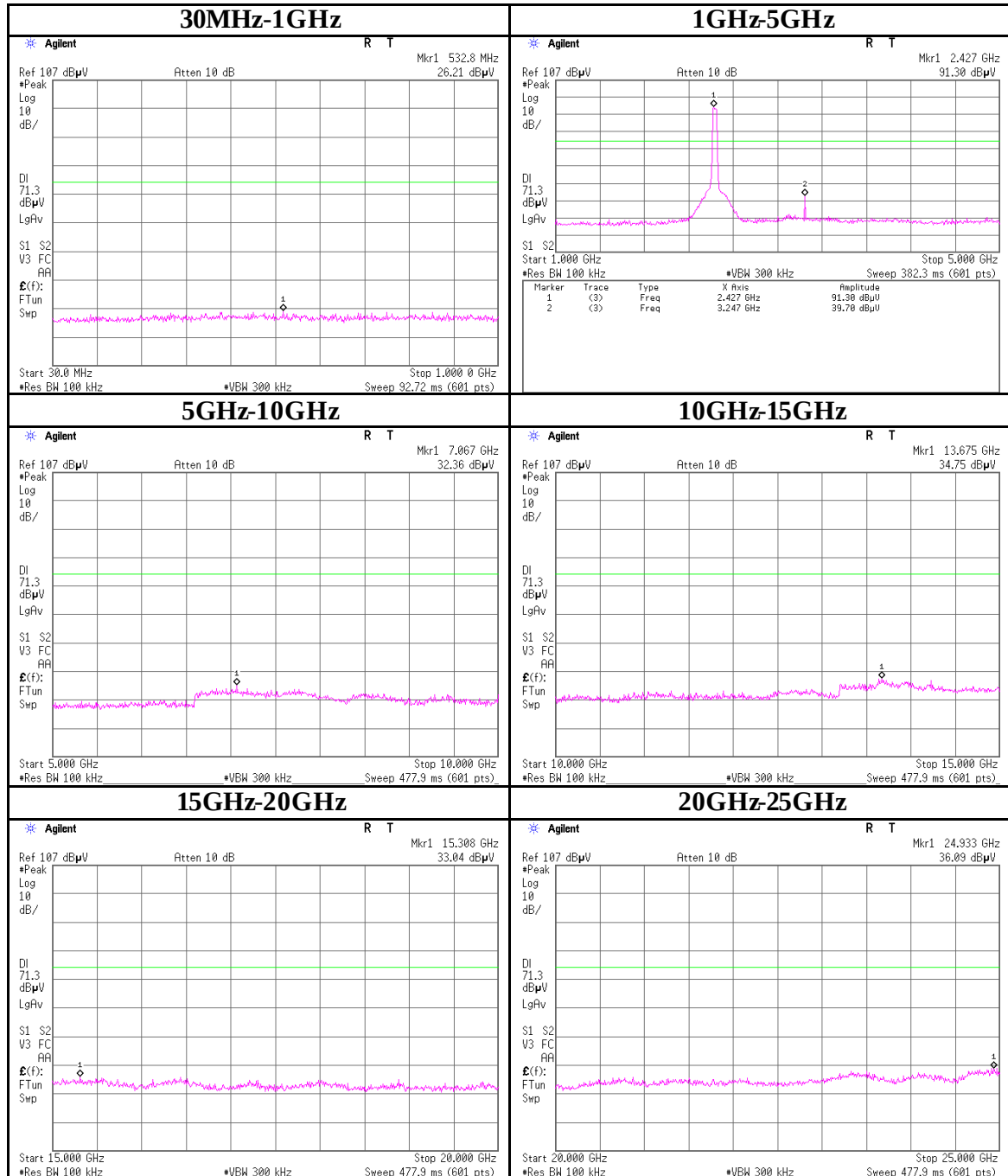




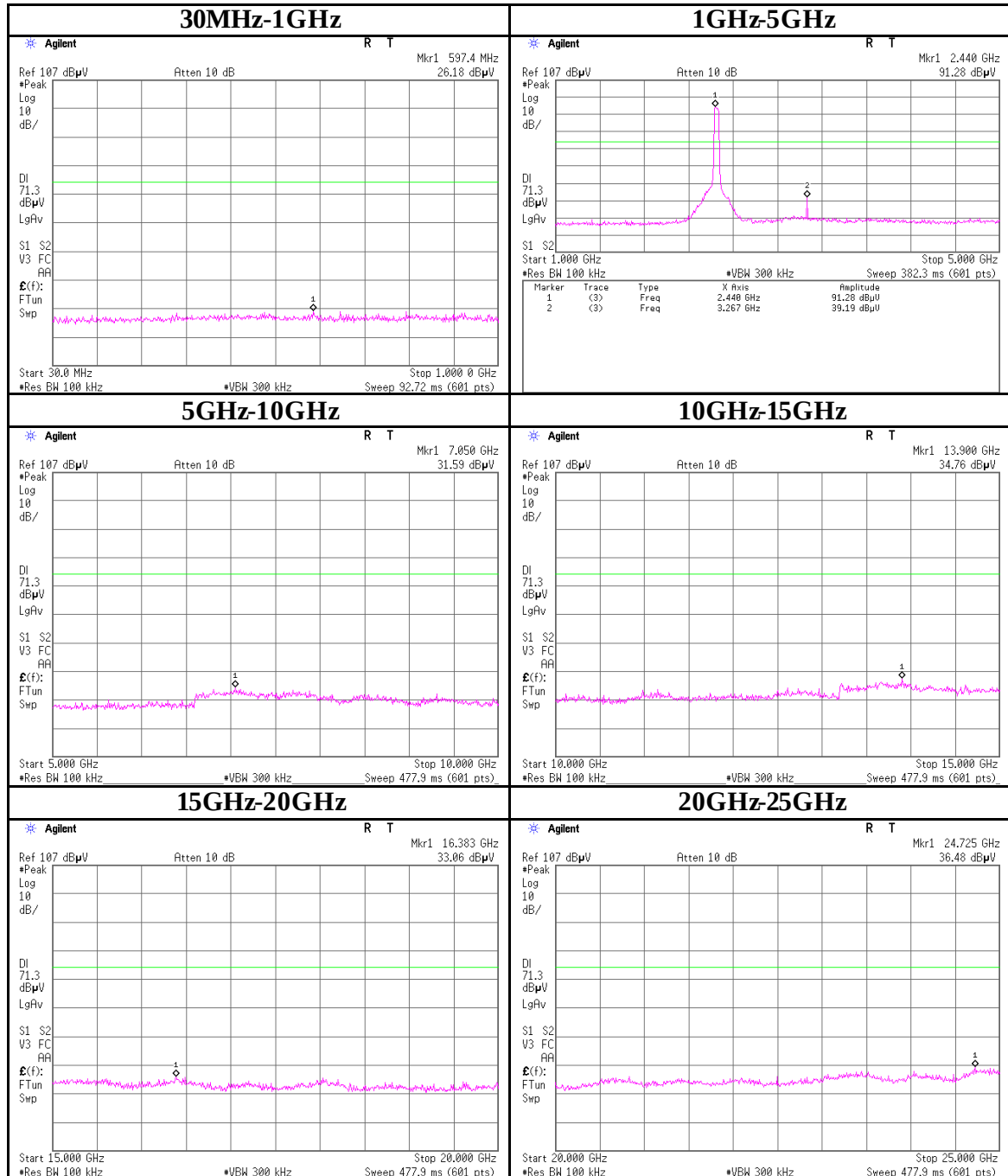
Conducted Spurious Emission
11n(40HT) Tx 270Mbps Lch(2422MHz) Antenna 2



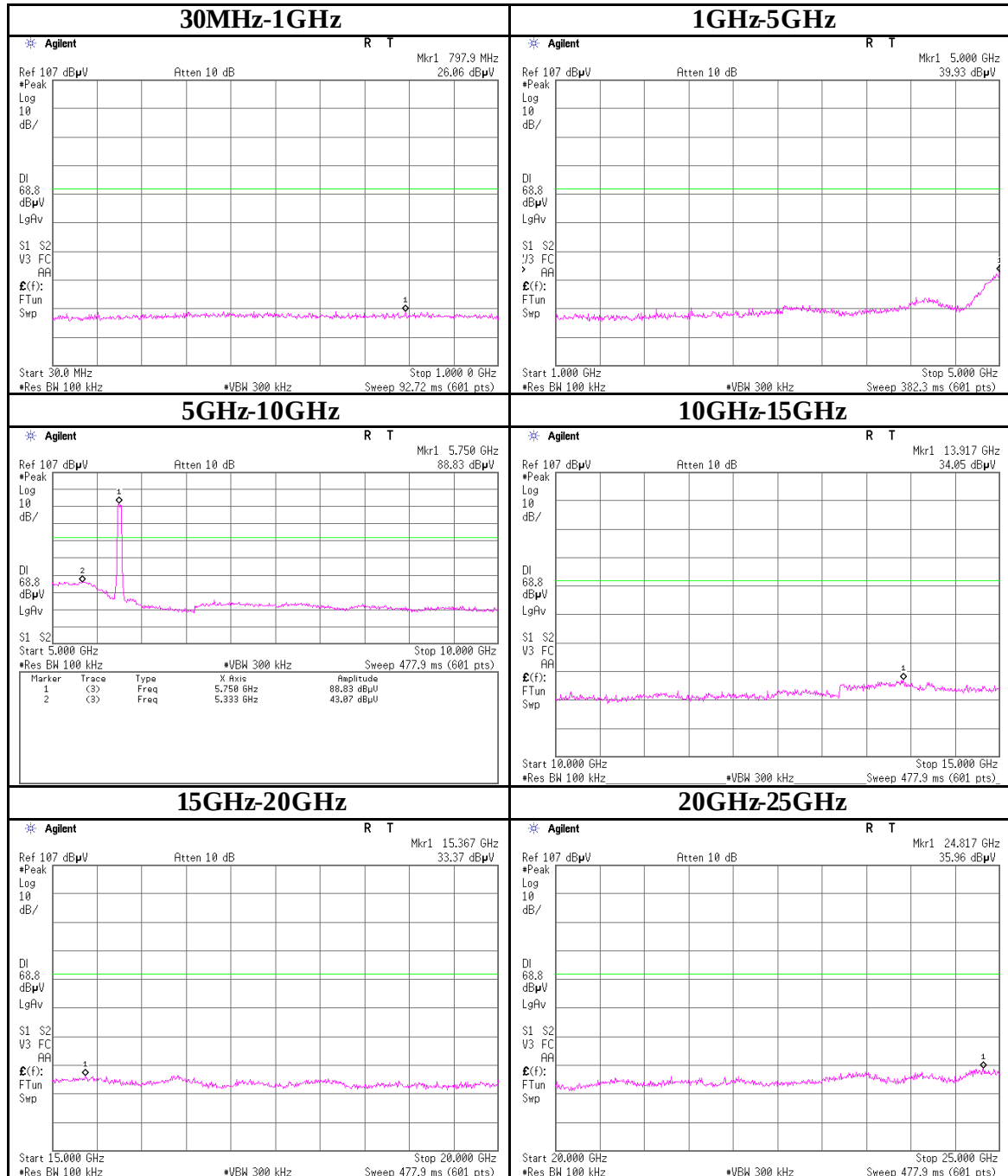
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11n(40HT) Tx 270Mbps Mch(2437MHz) Antenna 2

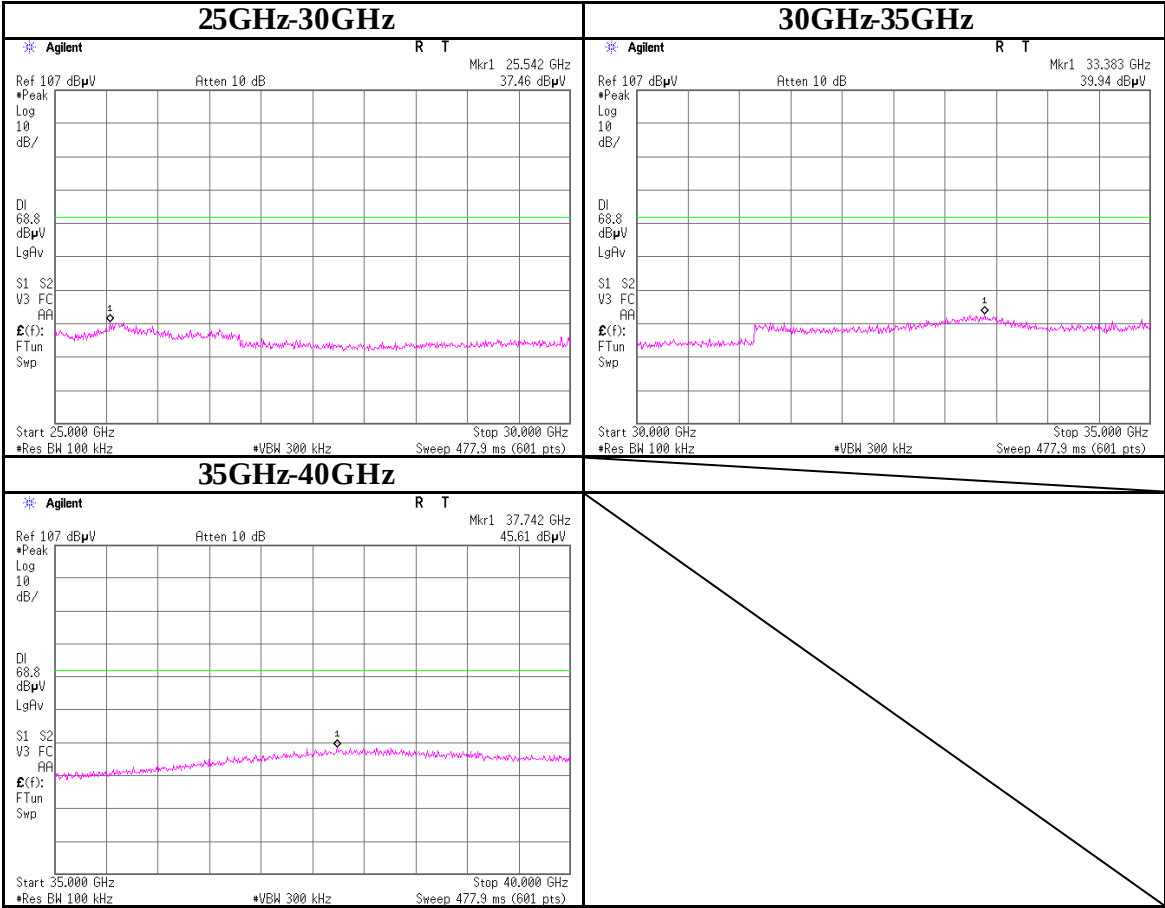


Conducted Spurious Emission
11n(40HT) Tx 270Mbps Hch(2452MHz) Antenna 2

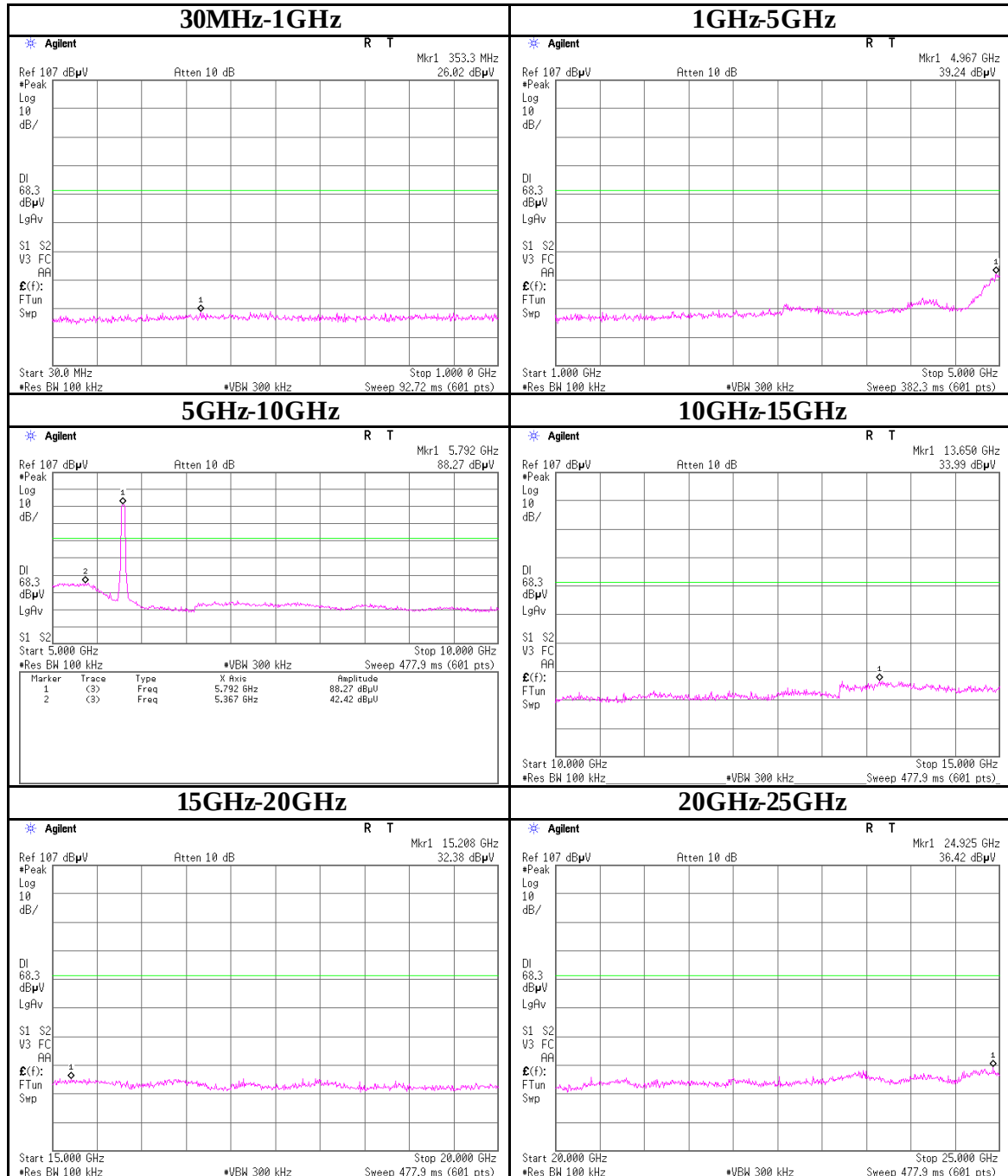


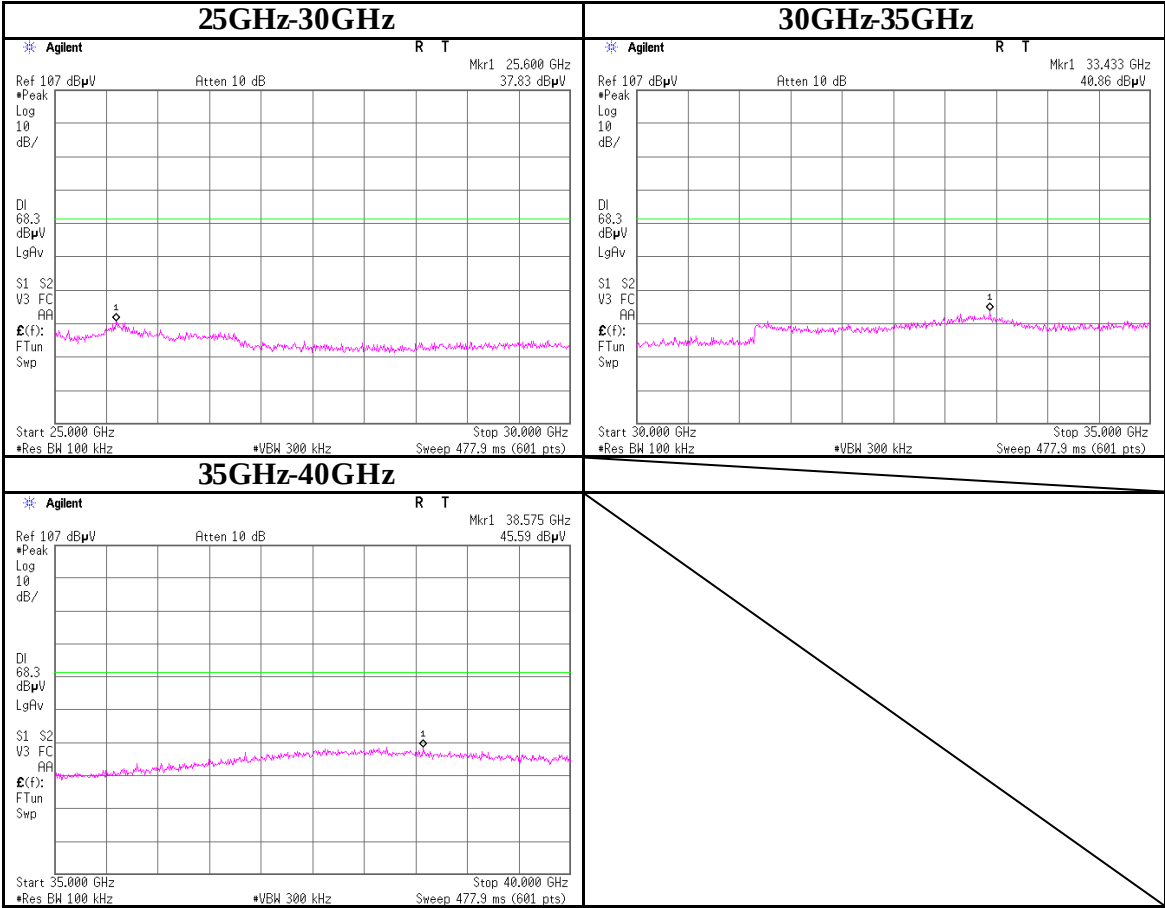
Conducted Spurious Emission
11n(40HT) Tx 270Mbps Lch(5755MHz) Antenna 2



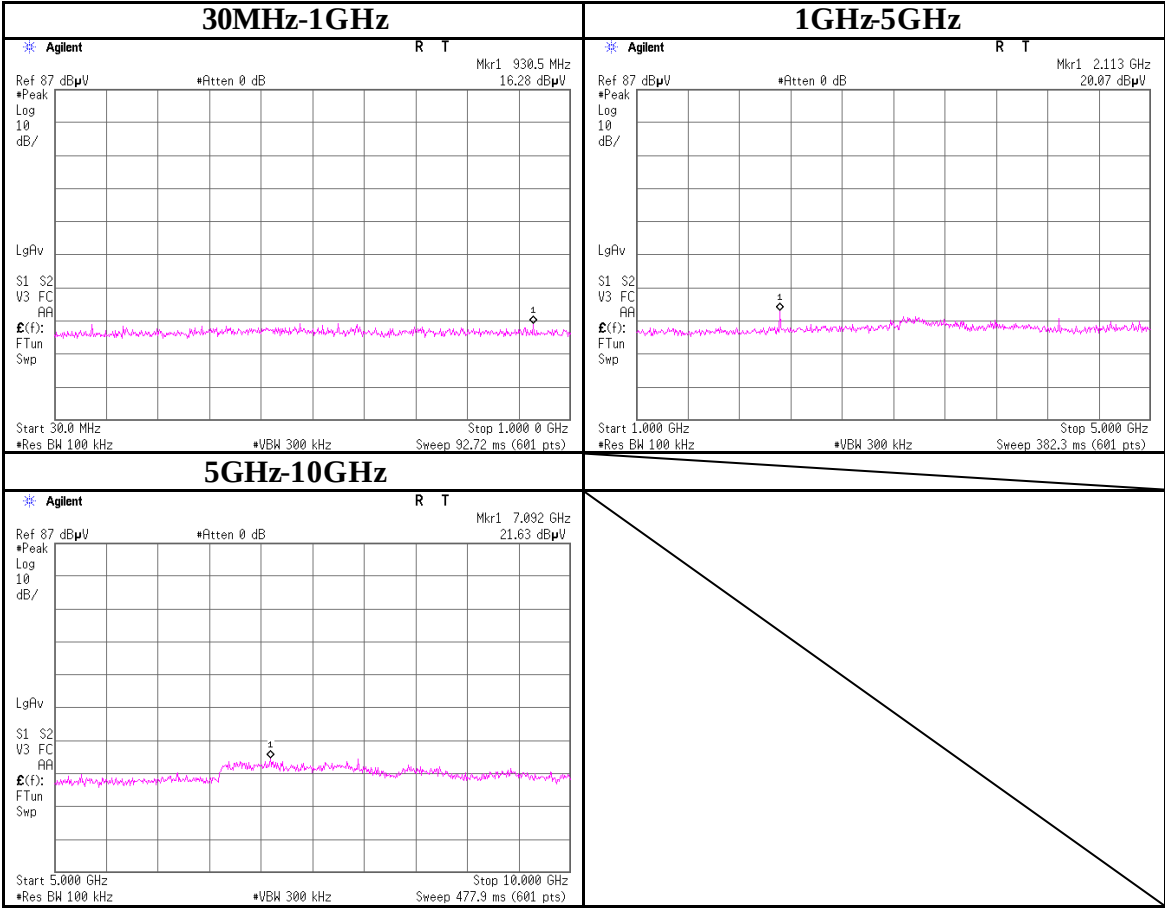


Conducted Spurious Emission
11n(40HT) Tx 270Mbps Hch(5795MHz) Antenna 2

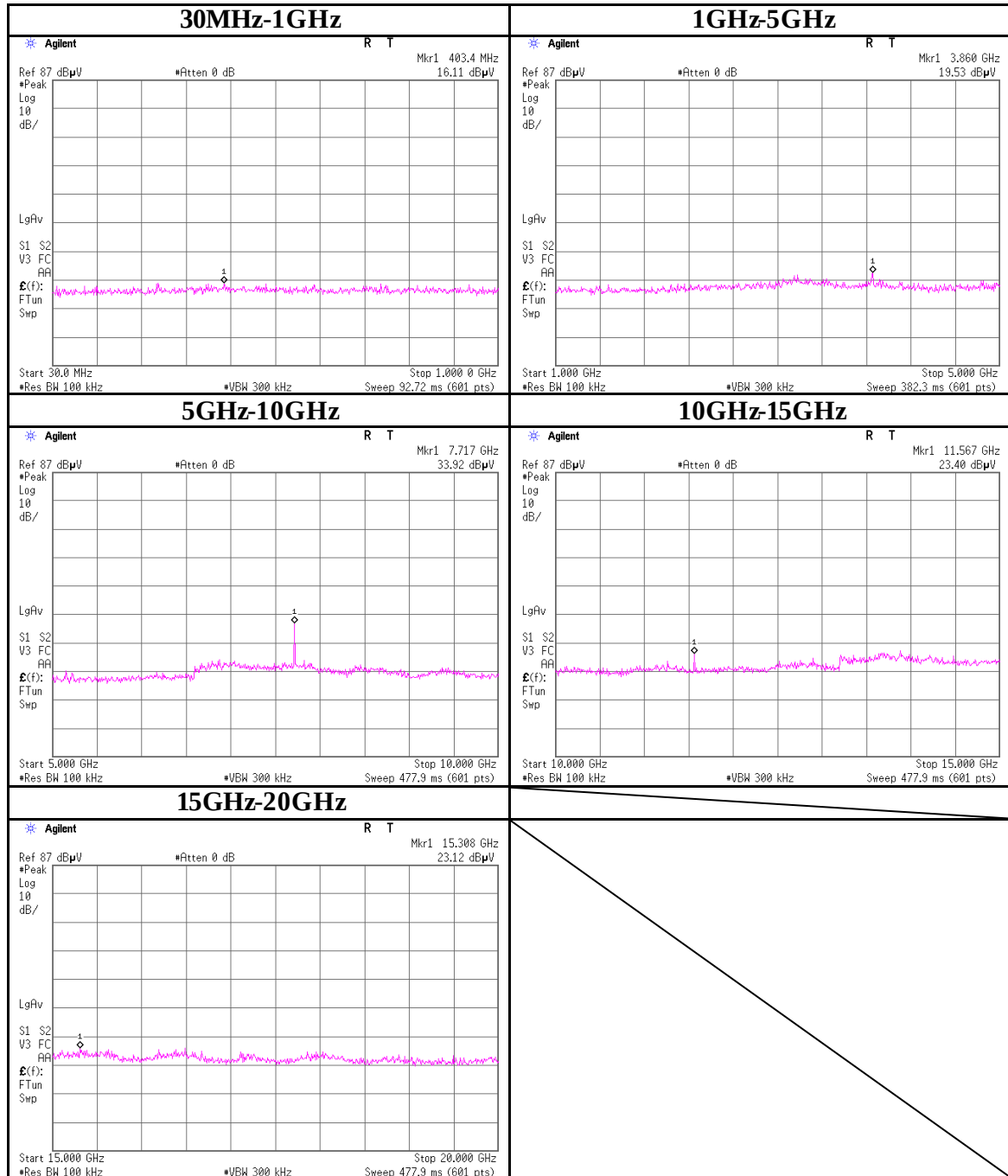




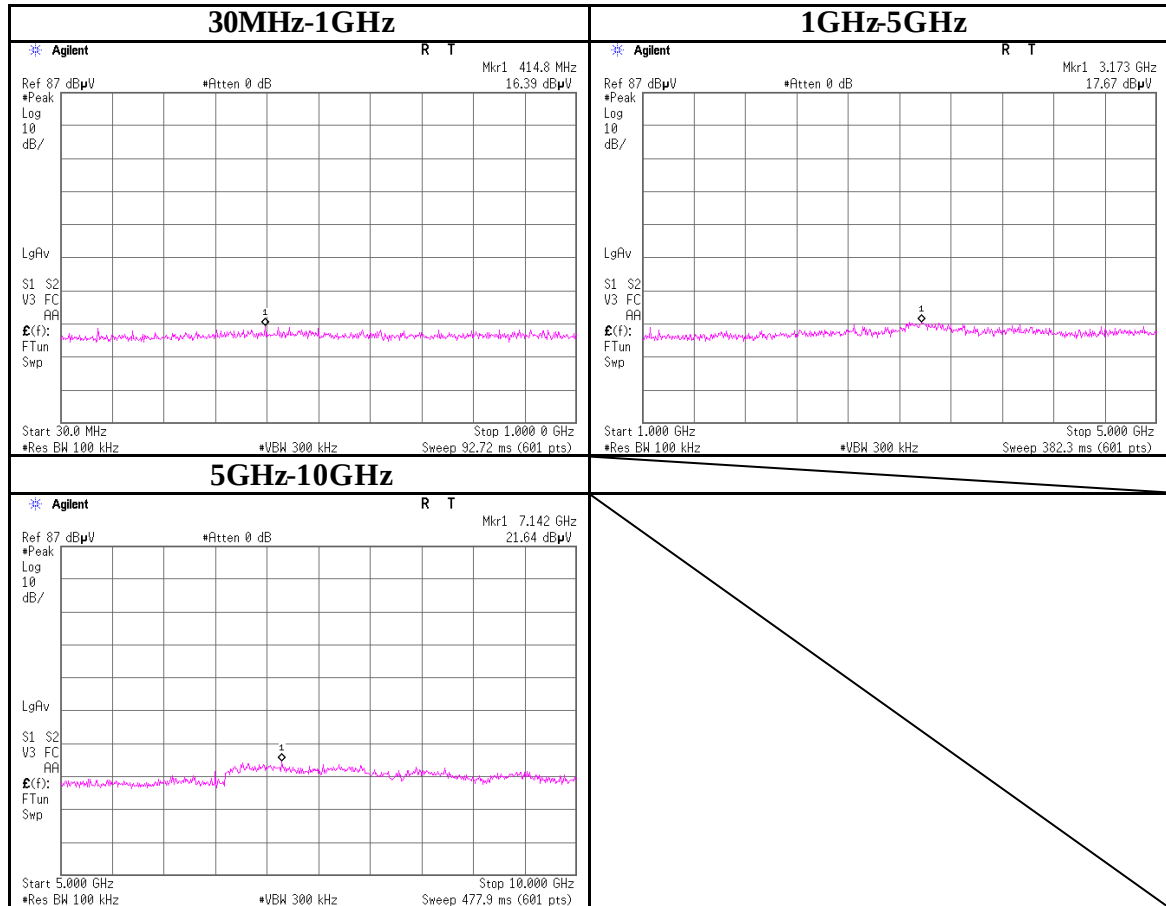
Conducted Spurious Emission
11b/g Rx Mch(2437MHz) Antenna 3



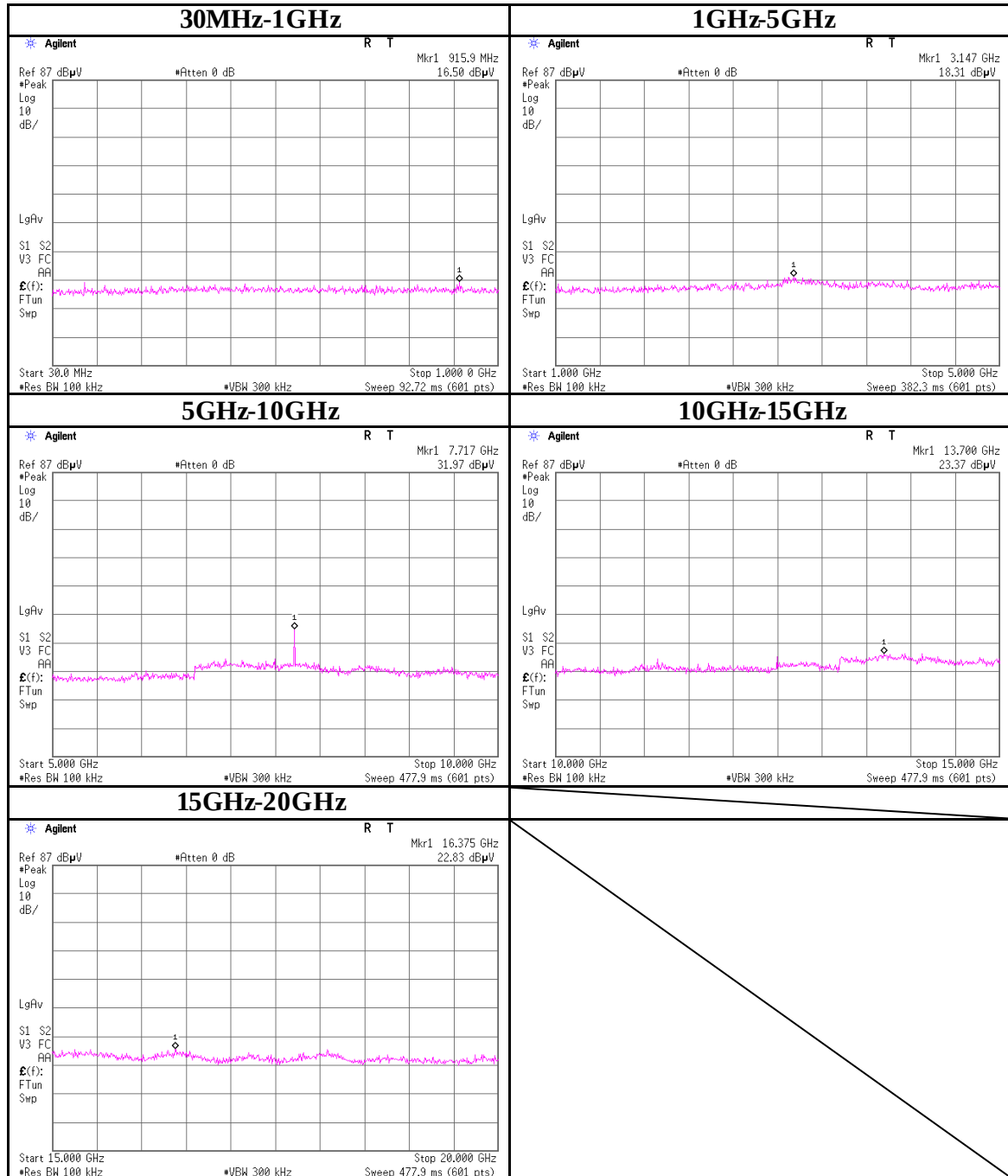
Conducted Spurious Emission
11a Rx Mch(5785MHz) Antenna 3



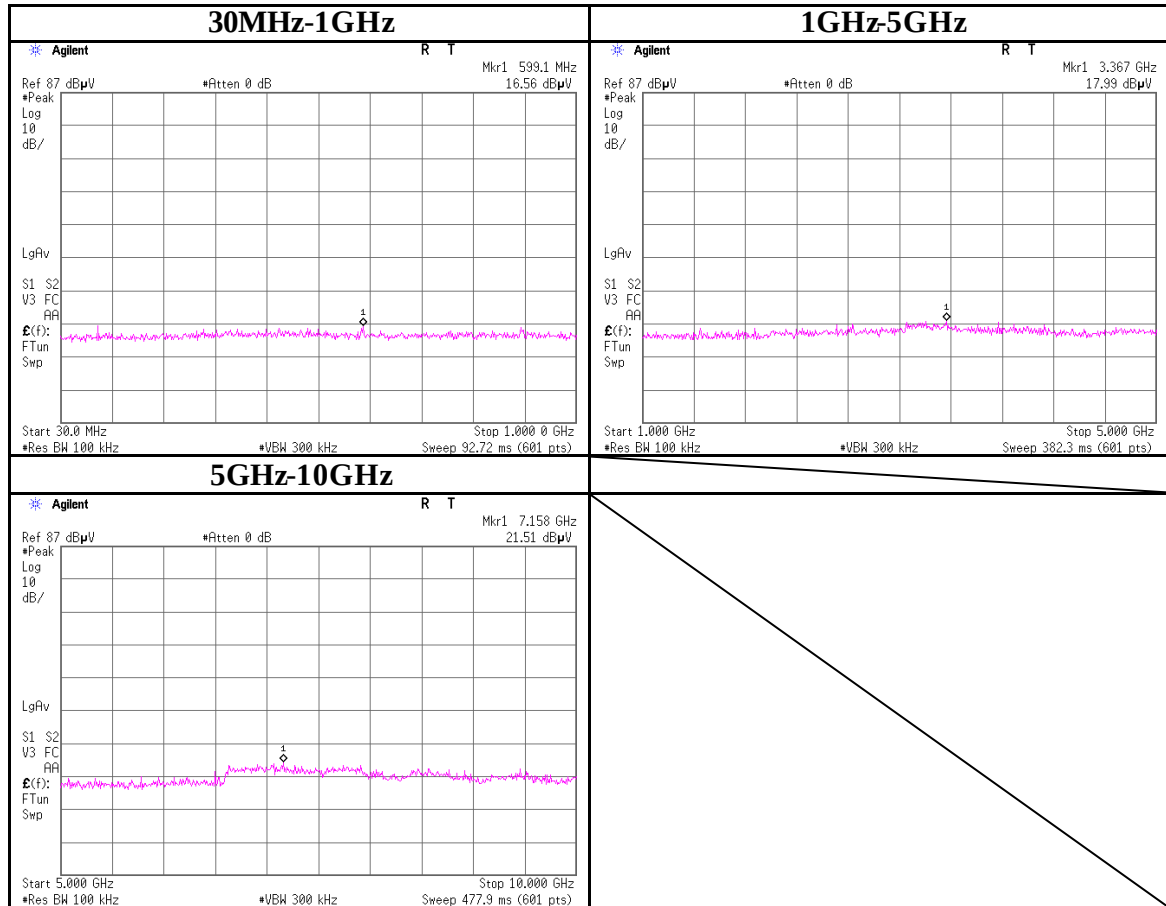
Conducted Spurious Emission
11n(20HT) Rx Mch(2437MHz) Antenna 2



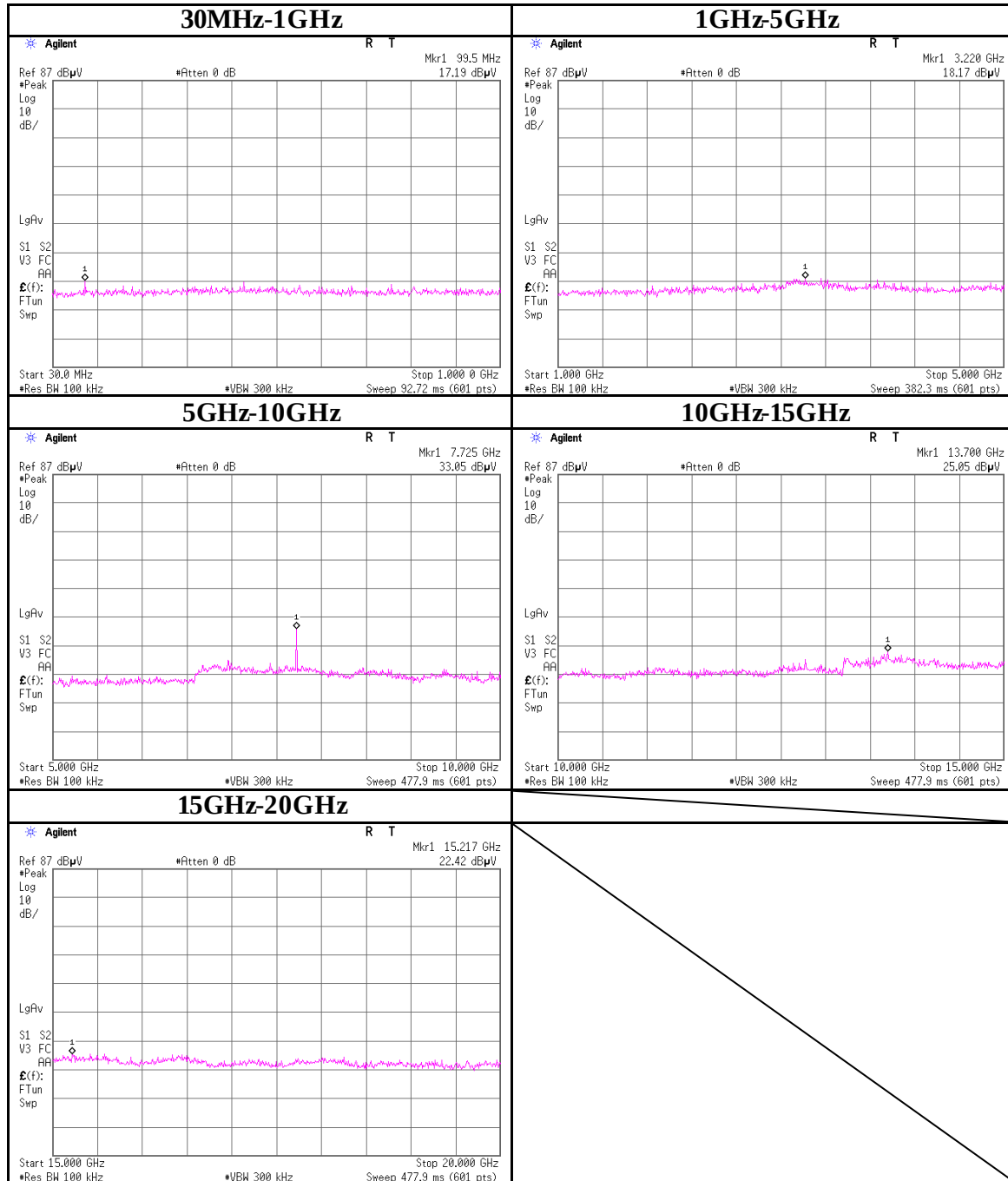
Conducted Spurious Emission
11n(20HT) Rx Mch(5785MHz) Antenna 2



Conducted Spurious Emission
11n(40HT) Rx Mch(2437MHz) Antenna 2

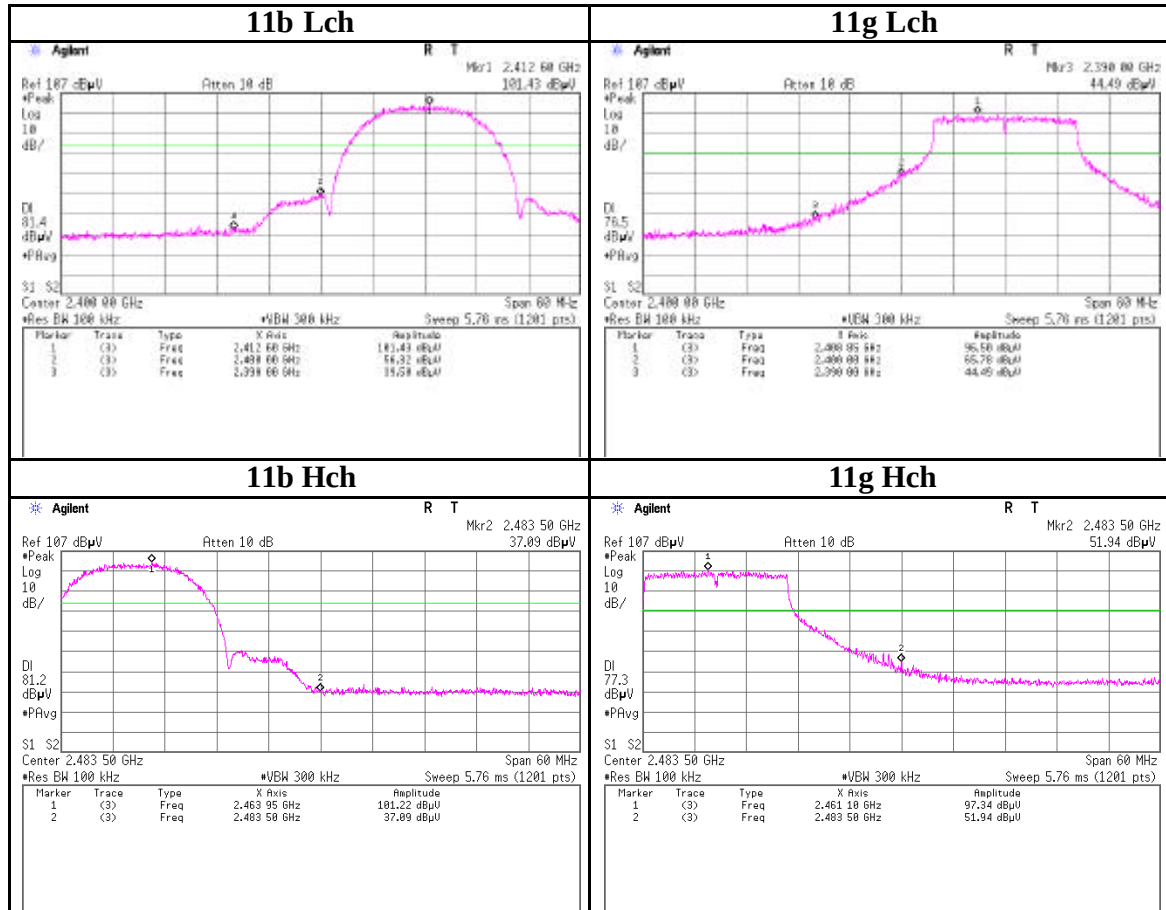


Conducted Spurious Emission
11n(40HT) Rx Hch(5795MHz) Antenna 2



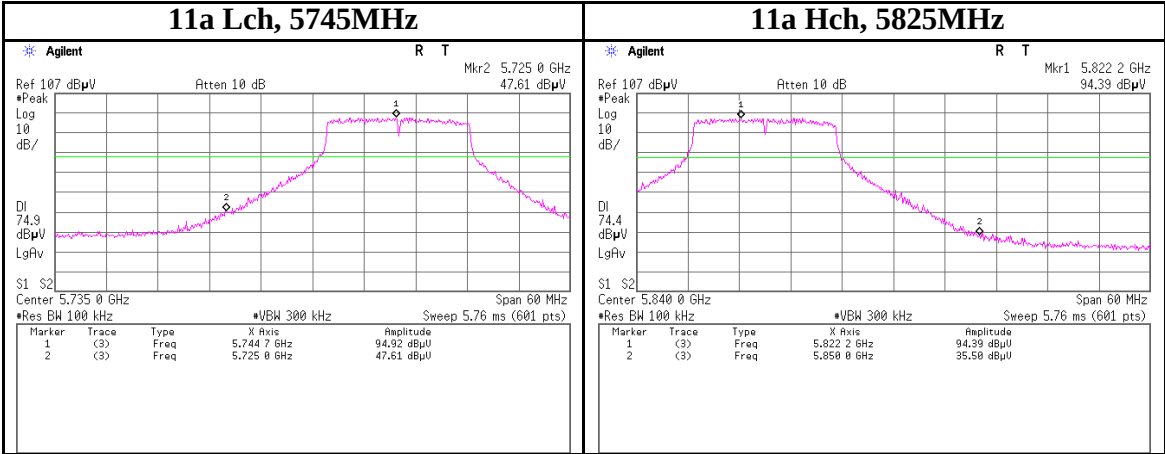
Conducted emission Band Edge compliance

11b Tx 11Mbps Antenna 3 / 11g Tx 54Mbps Antenna 3



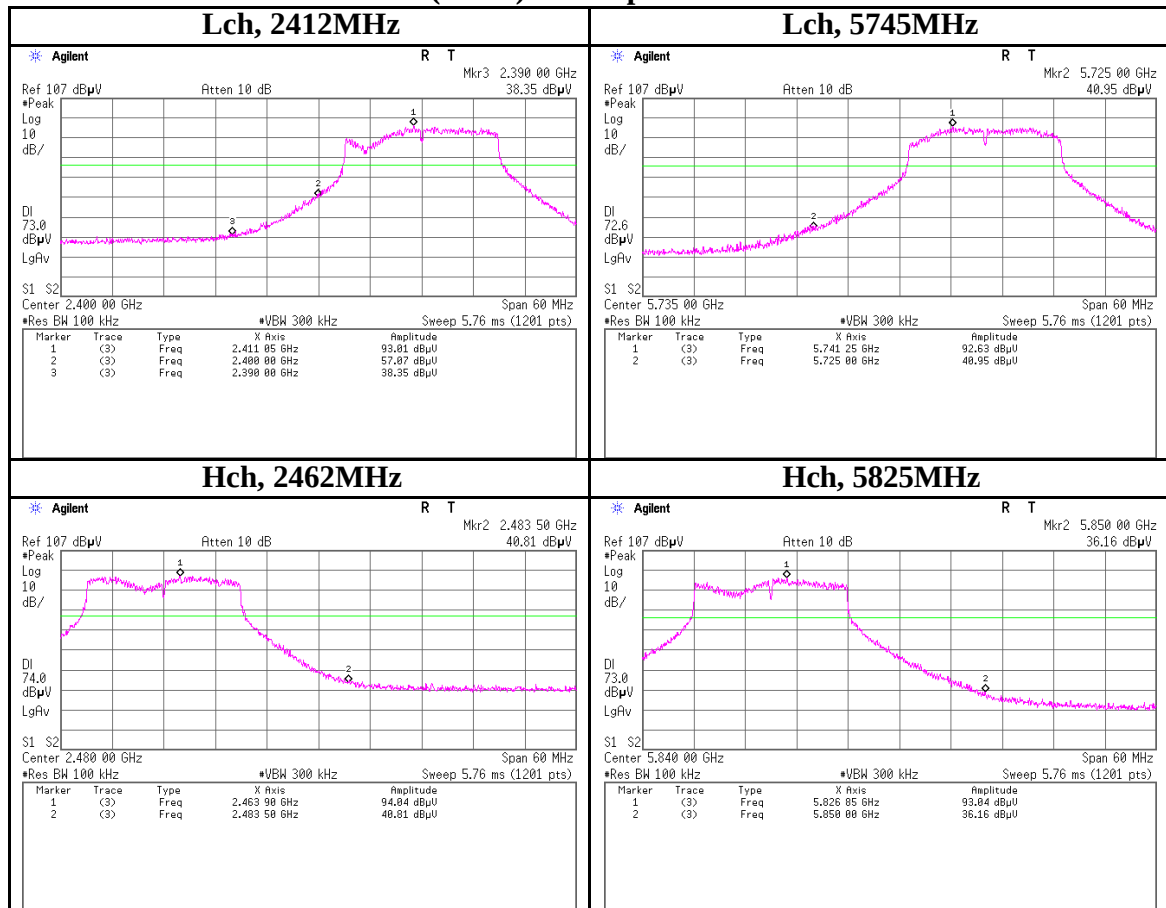
Conducted emission Band Edge compliance

11a Tx 54Mbps Antenna 3



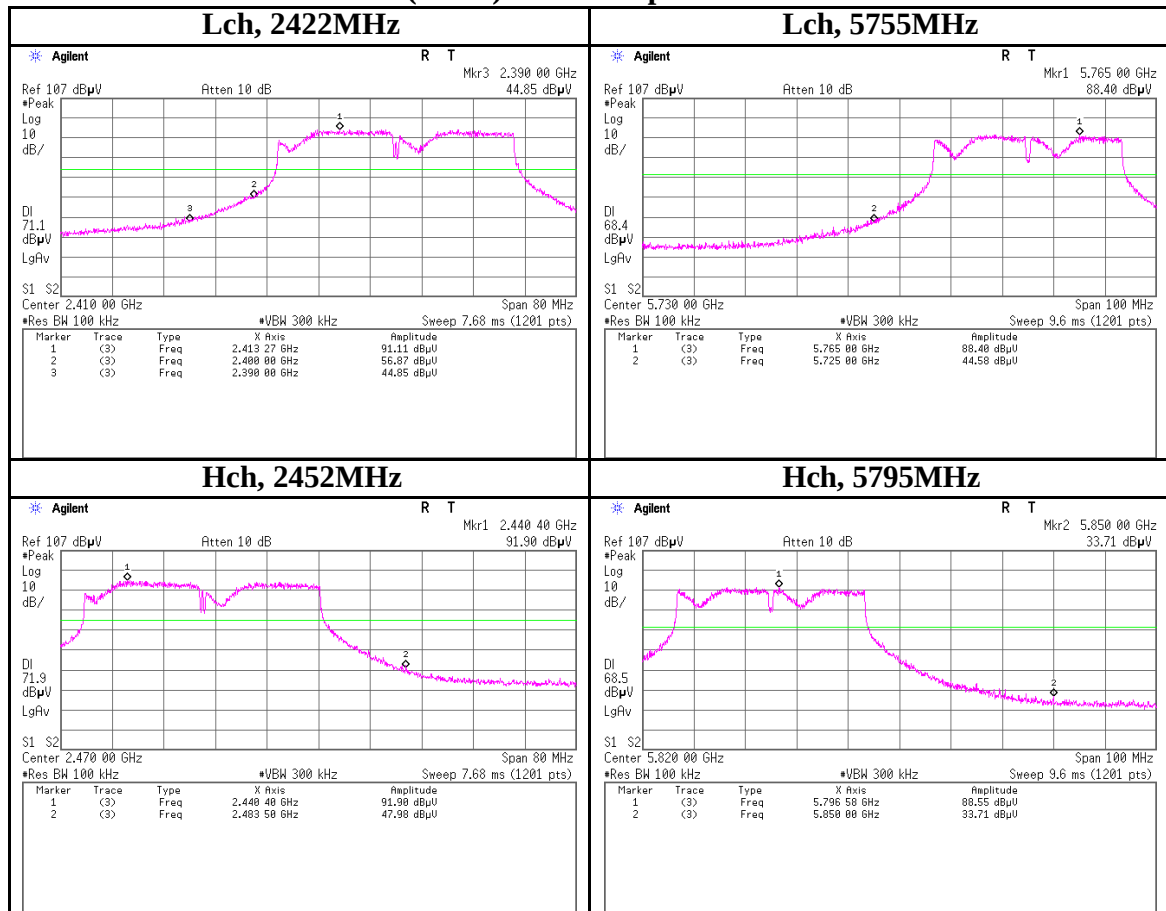
Conducted emission Band Edge compliance

11n(20HT) 130Mbps Antenna 1+2+3



Conducted emission Band Edge compliance

11n(40HT) Tx 270Mbps Antenna 1+2+3



UL Japan, Inc.

Head Office EMC Lab.

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Power Density

11b / 11g

UL Japan, Inc

Head Office EMC Lab. No.4 measurement room

Company : silex technology, Inc.
Equipment : MiniPCI Wireless LAN Board

Model : SX-10WAN

S/N : 008092011316

Power : DC 3.3V

Mode : 11b, Tx, 11Mbps, Ant 3 (Worst)

11g, Tx, 54Mbps, Ant 3 (Worst)

Regulation : FCC Section 15.247 (e)

Test Distance : -

Date : May/30/2008

Temperature : 26deg.C.

Humidity : 56%

Engineer : Kazufumi Nakai

[IEEE802.11b]

Ch	Freq. [MHz]	Reading [dBm]	Cable [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2409.6	-17.92	1.92	10.08	-5.92	8.00	13.92
Mid	2435.6	-15.89	1.93	10.08	-3.88	8.00	11.88
High	2462.7	-16.11	1.93	10.08	-4.10	8.00	12.10

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

[IEEE802.11g]

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2411.4	-21.34	1.92	10.08	-9.34	8.00	17.34
Mid	2437.0	-17.30	1.93	10.08	-5.29	8.00	13.29
High	2463.6	-22.11	1.93	10.08	-10.10	8.00	18.10

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

UL Japan, Inc.

Head Office EMC Lab.

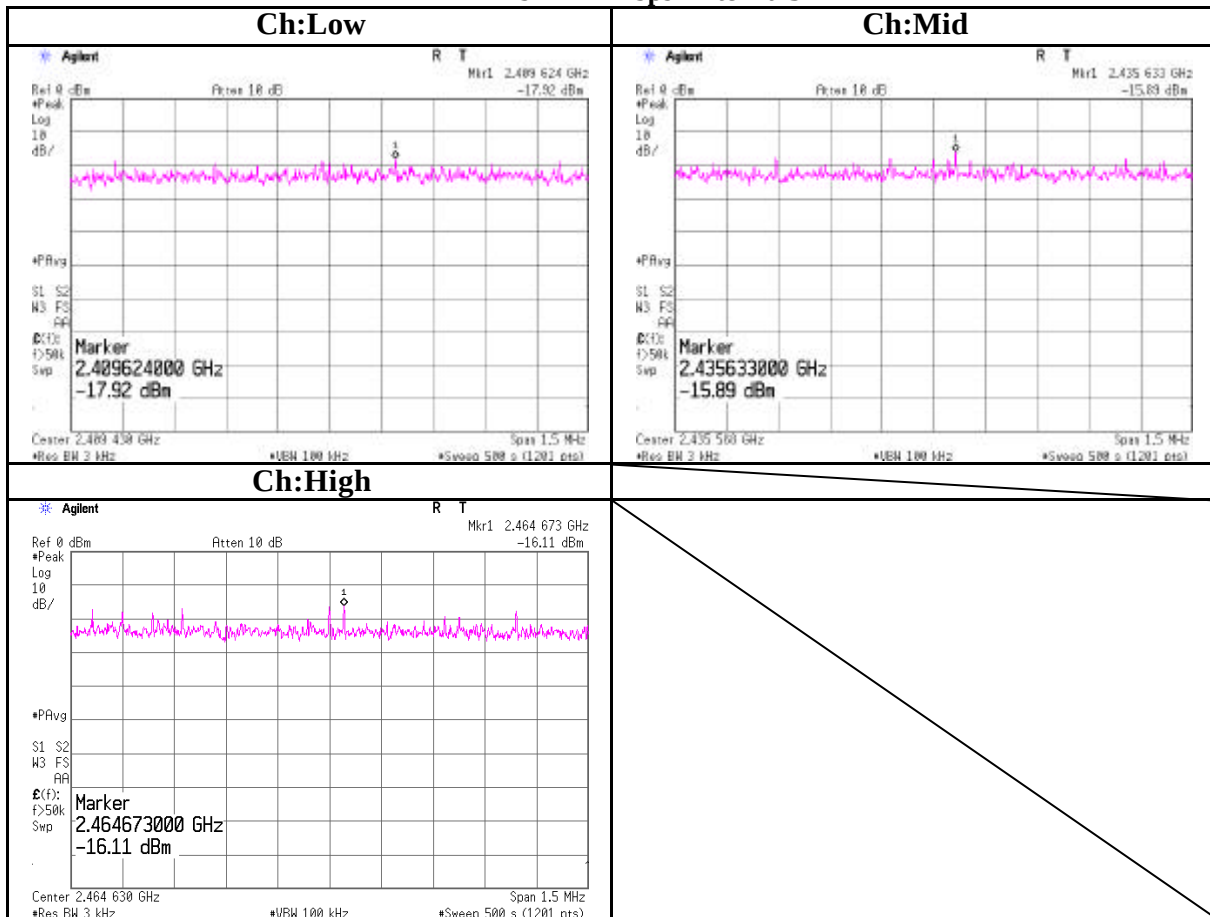
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

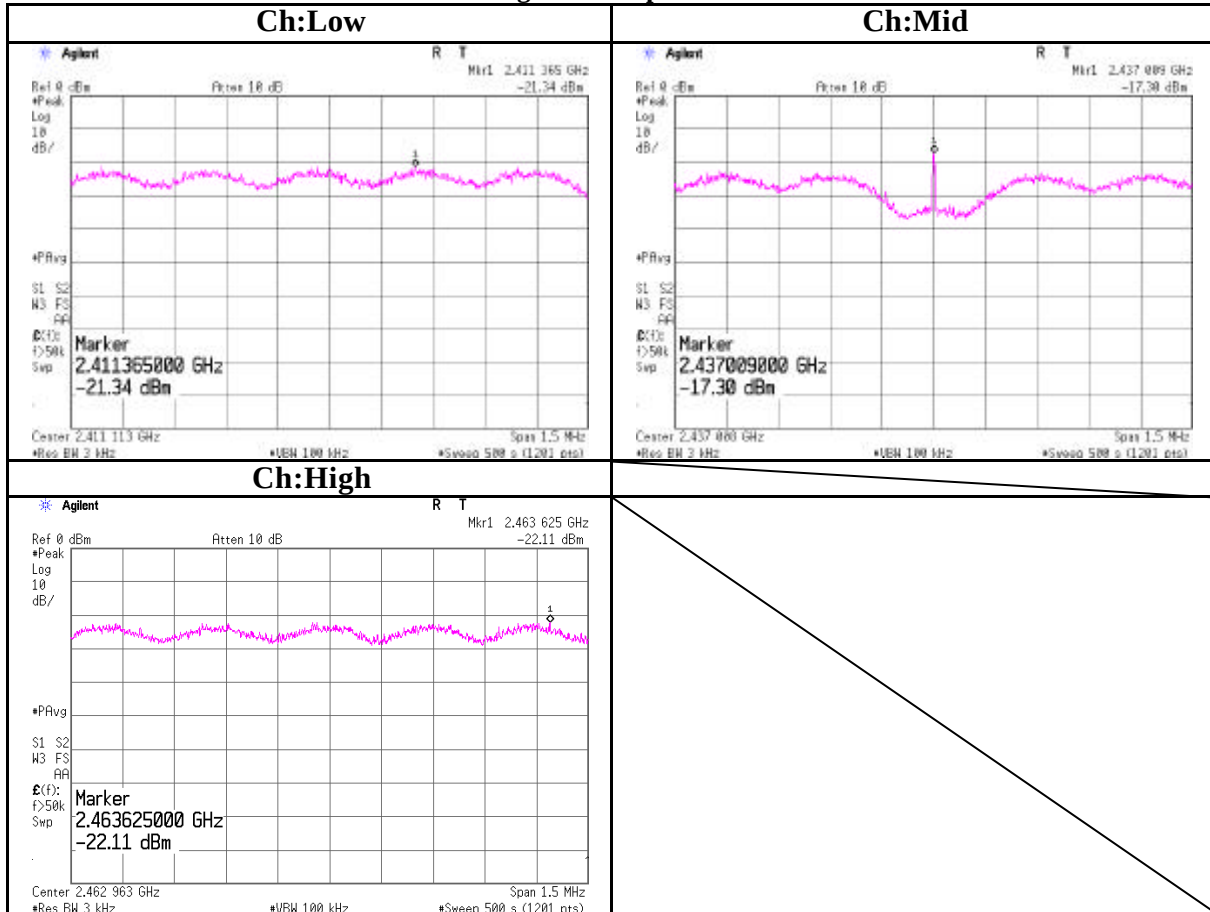
Power Density

11b Tx 11Mbps Antenna 3



Power Density

11g Tx 54Mbps Antenna 3



UL Japan, Inc.

Head Office EMC Lab.

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Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Power Density

11a

Company	silex technology, Inc.	UL Japan, Inc
Equipment	MiniPCI Wireless LAN Board	Head Office EMC Lab. No.11 measurement room
Model	SX-10WAN	Regulation FCC Section 15.247 (e)
S/N	008092011316	Test Distance -
Power	DC 3.3V	Date Jun / 02 / 2008
Mode	11a, Tx, 54Mbps, Ant 3 (Worst)	Temperature 24deg.C.
		Humidity 58%
		Engineer Norihisa Hashimoto

[IEEE802.11a]

Ch	Freq. [MHz]	Reading [dBm]	Cable [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	5745.9	-23.88	3.07	10.14	-10.67	8.00	18.67
Mid	5784.0	-24.47	3.09	10.15	-11.23	8.00	19.23
High	5825.9	-23.83	3.11	10.15	-10.57	8.00	18.57

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

UL Japan, Inc.

Head Office EMC Lab.

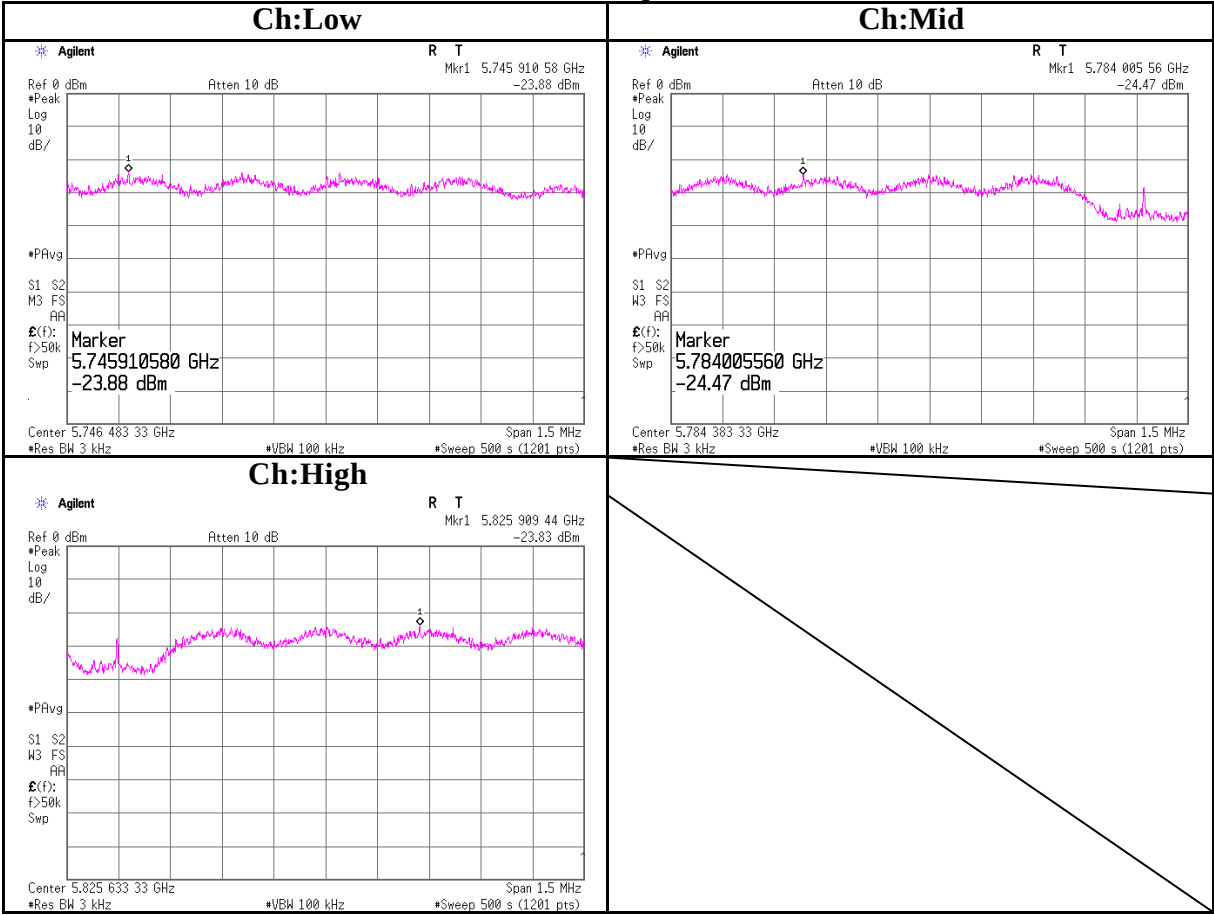
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Power Density

11a Tx 54Mbps Antenna 3



Power Density 11n(20HT) 2.4GHz Band

Company : silex technology, Inc. Equipment : MiniPCI Wireless LAN Board Model : SX-10WAN S/N : 008092011316 Power : DC 3.3V Mode : 11n, Tx, 130Mbps, Ant 1,2,3	UL Japan, Inc Head Office EMC Lab. No.11 measurement room Regulation : FCC Section 15.247 (e) Test Distance : - Date : Jun / 02 / 2008 Temperature : 24deg.C. Humidity : 58% Engineer : Norihisa Hashimoto
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Antenna Port	Ch	Freq.	S/A Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant1+2+3	Low	2412.0	-	-	-	-7.25	0.19	8.00	6.31	15.25
	Mid	2437.0	-	-	-	-7.87	0.16	8.00	6.31	15.87
	High	2462.0	-	-	-	-5.29	0.30	8.00	6.31	13.29

Antenna Port	Ch	Freq.	S/A Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant1	Low	2412.0	-23.18	1.92	10.08	-11.18	0.08	8.00	6.31	19.18
	Mid	2434.4	-24.65	1.93	10.08	-12.64	0.05	8.00	6.31	20.64
	High	2462.0	-19.23	1.93	10.08	-7.22	0.19	8.00	6.31	15.22
Ant2	Low	2413.3	-25.02	1.92	10.08	-13.02	0.05	8.00	6.31	21.02
	Mid	2438.6	-24.60	1.93	10.08	-12.59	0.06	8.00	6.31	20.59
	High	2463.6	-25.20	1.93	10.08	-13.19	0.05	8.00	6.31	21.19
Ant3	Low	2412.9	-24.05	1.92	10.08	-12.05	0.06	8.00	6.31	20.05
	Mid	2432.7	-24.69	1.93	10.08	-12.68	0.05	8.00	6.31	20.68
	High	2463.3	-24.37	1.93	10.08	-12.36	0.06	8.00	6.31	20.36

Sample Calculation:

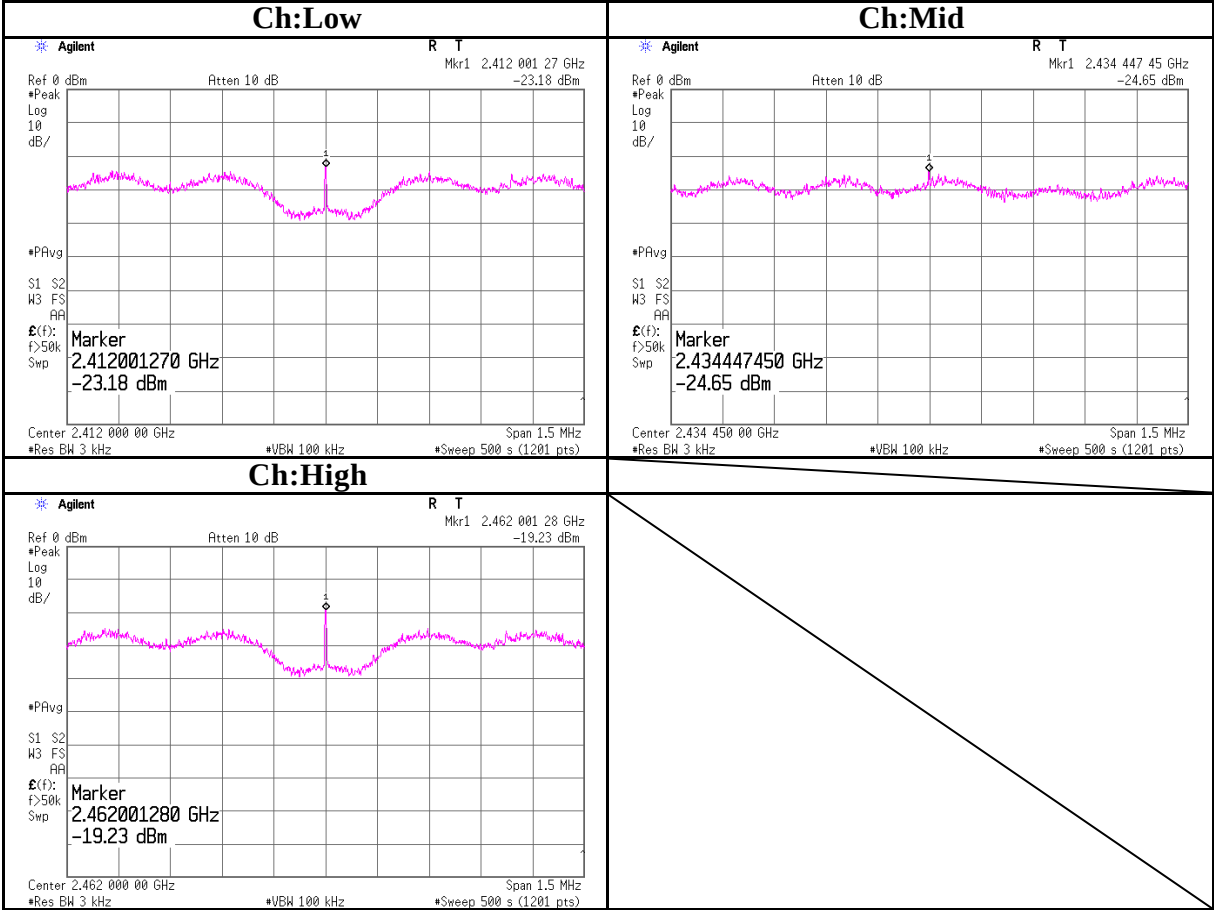
Result = Reading + Cable Loss + Attenuator Loss

*The equipment and cables were not used for factor 0.0dB of the above table.

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

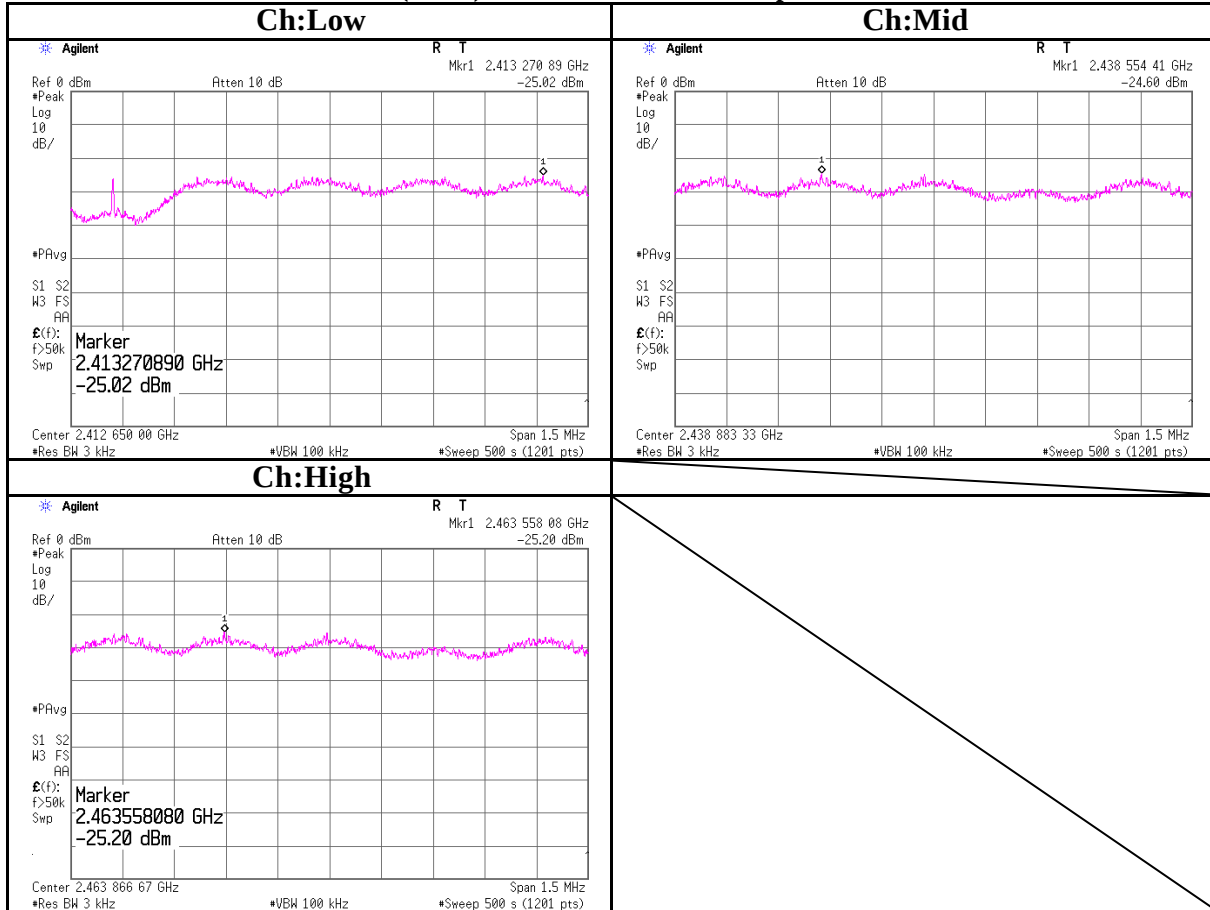
Power Density

11n(20HT) 2.4GHz Band Tx 130Mbps Antenna 1



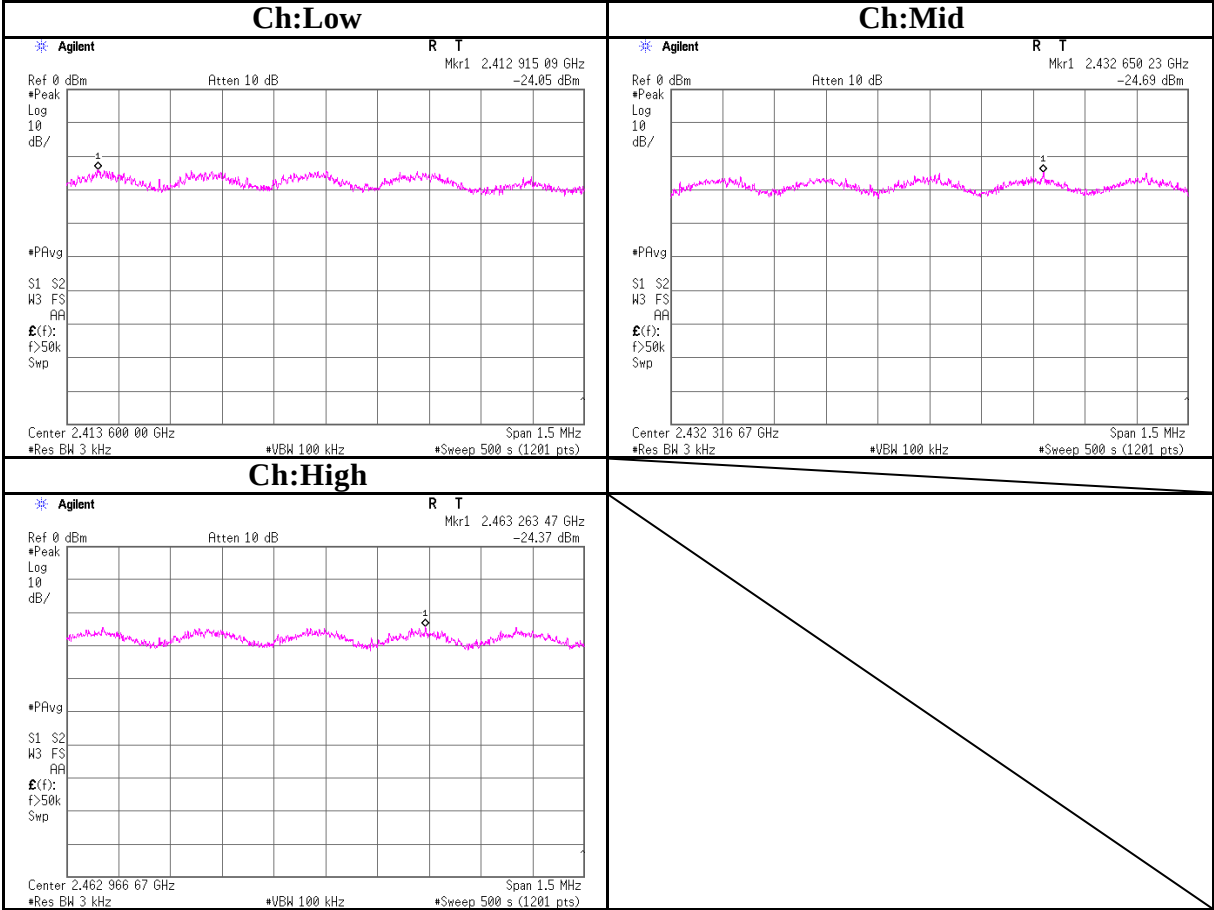
Power Density

11n(20HT) 2.4GHz Band Tx 130Mbps Antenna 2



Power Density

11n(20HT) 2.4GHz Band Tx 130Mbps Antenna 3



Power Density 11n(20HT) 5GHz Band

	UL Japan, Inc
	Head Office EMC Lab. No.11 measurement room
Company	silex technology, Inc.
Equipment	MiniPCI Wireless LAN Board
Model	SX-10WAN
S/N	008092011316
Power	DC 3.3V
Mode	11n, Tx, 130Mbps, Ant 1,2,3
	Regulation FCC Section 15.247 (e)
	Test Distance -
	Date Jun / 03 / 2008
	Temperature 22deg.C.
	Humidity 60%
	Engineer Norihisa Hashimoto

Antenna Port	Ch	Freq.	S/A Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant1+2+3	Low	5745.0	-	-	-	-8.01	0.16	8.00	6.31	16.01
	Mid	5785.0	-	-	-	-8.26	0.15	8.00	6.31	16.26
	High	5825.0	-	-	-	-7.81	0.17	8.00	6.31	15.81

Antenna Port	Ch	Freq.	S/A Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant1	Low	5745.3	-25.87	3.07	10.14	-12.66	0.05	8.00	6.31	20.66
	Mid	5785.3	-25.99	3.09	10.15	-12.75	0.05	8.00	6.31	20.75
	High	5826.5	-25.97	3.11	10.15	-12.71	0.05	8.00	6.31	20.71
Ant2	Low	5742.5	-26.43	3.07	10.14	-13.22	0.05	8.00	6.31	21.22
	Mid	5784.1	-26.10	3.09	10.15	-12.86	0.05	8.00	6.31	20.86
	High	5825.0	-24.89	3.11	10.15	-11.63	0.07	8.00	6.31	19.63
Ant3	Low	5743.7	-25.72	3.07	10.14	-12.51	0.06	8.00	6.31	20.51
	Mid	5785.6	-26.77	3.09	10.15	-13.53	0.04	8.00	6.31	21.53
	High	5825.0	-26.91	3.11	10.15	-13.65	0.04	8.00	6.31	21.65

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

*The equipment and cables were not used for factor 0.0dB of the above table.

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

UL Japan, Inc.

Head Office EMC Lab.

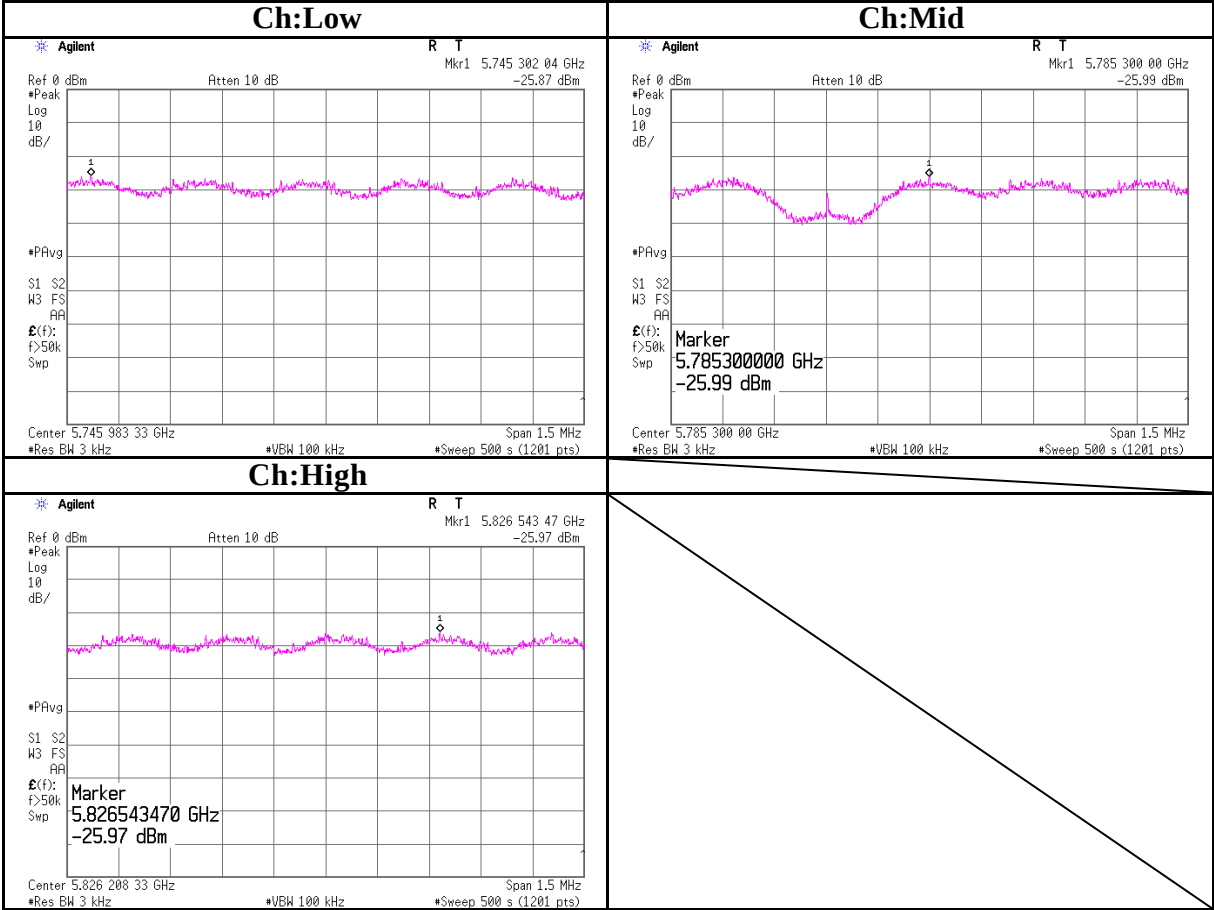
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

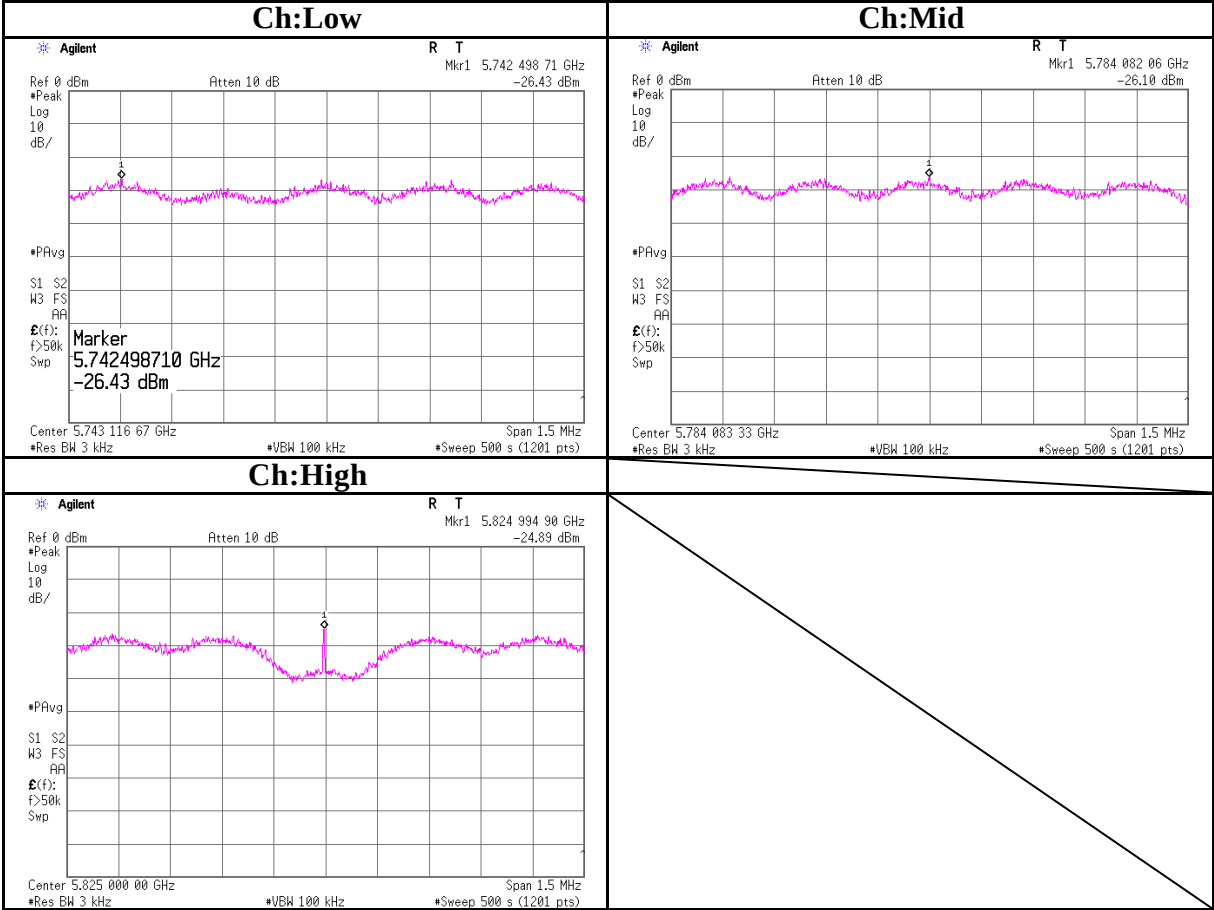
Power Density

11n(20HT) 5GHz Band Tx 130Mbps Antenna 1



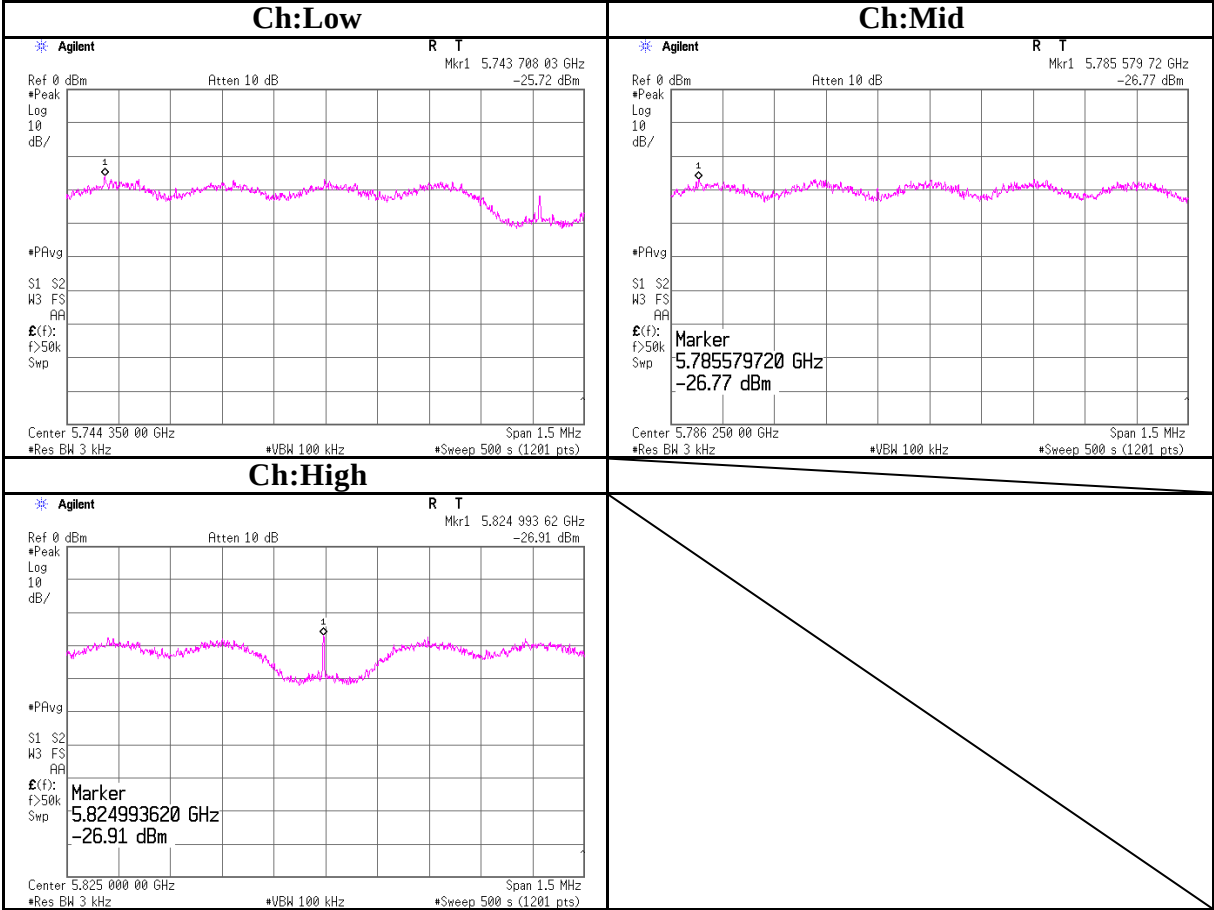
Power Density

11n(20HT) 5GHz Band Tx 130Mbps Antenna 2



Power Density

11n(20HT) 5GHz Band Tx 130Mbps Antenna 3



Power Density 11n(40HT) 2.4GHz Band

Company : silex technology, Inc. Equipment : MiniPCI Wireless LAN Board Model : SX-10WAN S/N : 008092011316 Power : DC 3.3V Mode : 11n, Tx, 270Mbps, Ant 1,2,3	UL Japan, Inc Head Office EMC Lab. No.11 measurement room Regulation : FCC Section 15.247 (e) Test Distance : - Date : Jun / 03 / 2008 Temperature : 22deg.C. Humidity : 60% Engineer : Norihisa Hashimoto	
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Antenna Port	Ch	Freq.	S/A Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant1+2+3	Low	2422.0	-	-	-	-7.22	0.19	8.00	6.31	15.22
	Mid	2437.0	-	-	-	-7.22	0.19	8.00	6.31	15.22
	High	2452.0	-	-	-	-8.80	0.13	8.00	6.31	16.80

Antenna Port	Ch	Freq.	S/A Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant1	Low	2422.0	-24.72	1.92	10.08	-12.72	0.05	8.00	6.31	20.72
	Mid	2437.0	-23.91	1.93	10.08	-11.90	0.06	8.00	6.31	19.90
	High	2447.6	-27.91	1.93	10.08	-15.90	0.03	8.00	6.31	23.90
Ant2	Low	2422.0	-21.92	1.92	10.08	-9.92	0.10	8.00	6.31	17.92
	Mid	2442.3	-27.77	1.93	10.08	-15.76	0.03	8.00	6.31	23.76
	High	2542.0	-23.03	1.93	10.08	-11.02	0.08	8.00	6.31	19.02
Ant3	Low	2423.6	-26.65	1.92	10.08	-14.65	0.03	8.00	6.31	22.65
	Mid	2437.0	-22.08	1.93	10.08	-10.07	0.10	8.00	6.31	18.07
	High	2452.0	-27.70	1.93	10.08	-15.69	0.03	8.00	6.31	23.69

Sample Calculation:

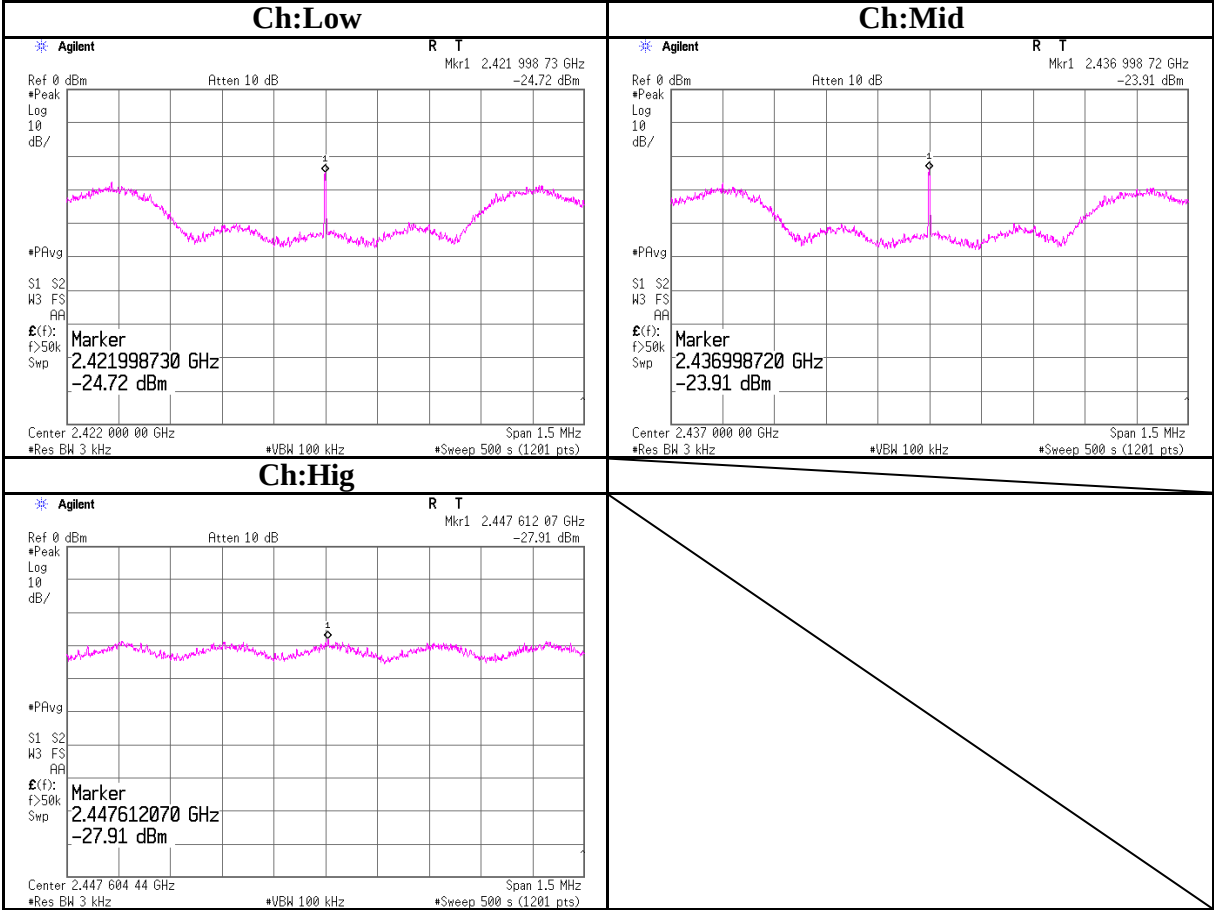
Result = Reading + Cable Loss + Attenuator Loss

*The equipment and cables were not used for factor 0.0dB of the above table.

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

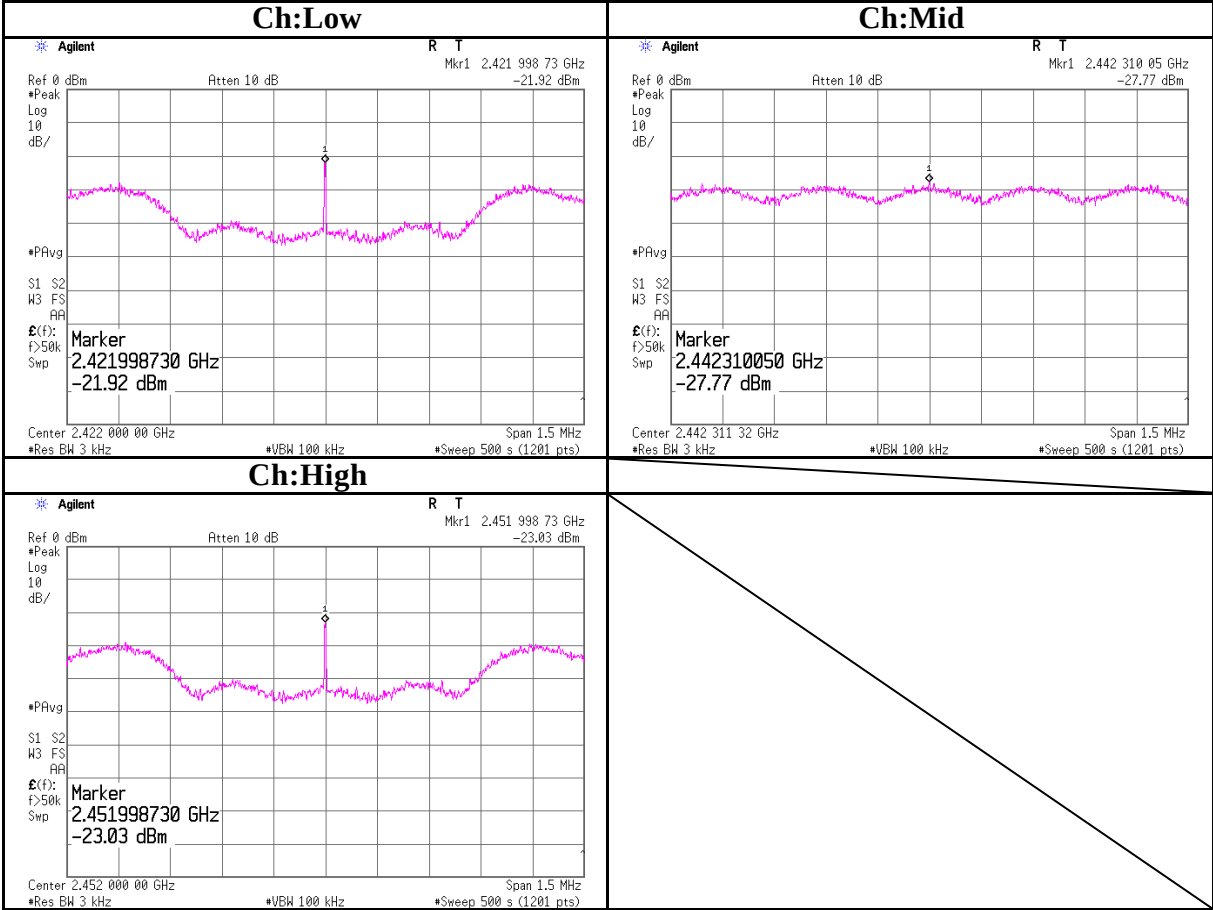
Power Density

11n(40HT) 2.4GHz Band Tx 270Mbps Antenna 1



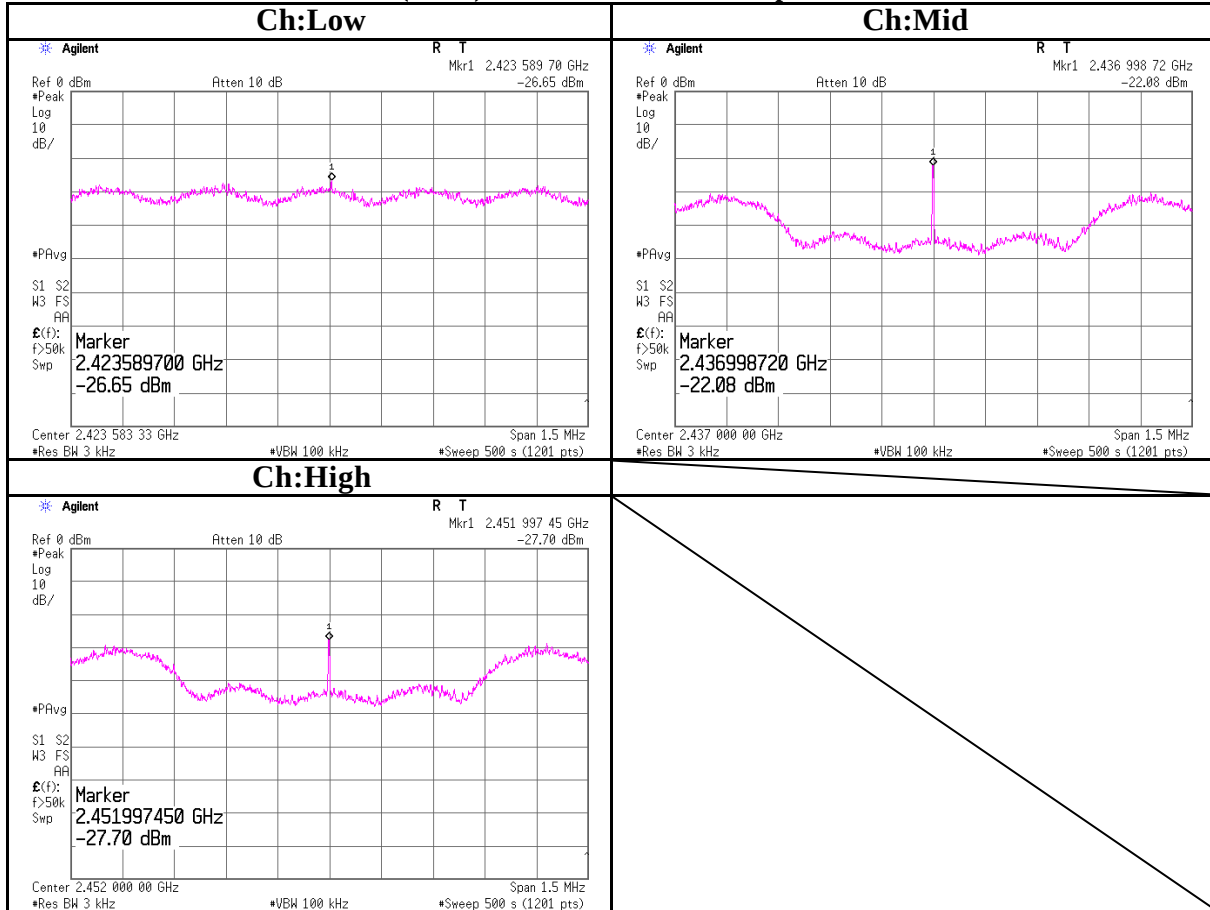
Power Density

11n(40HT) 2.4GHz Band Tx 270Mbps Antenna 2



Power Density

11n(40HT) 2.4GHz Band Tx 270Mbps Antenna 3



Power Density 11n(40HT) 5GHz Band

	UL Japan, Inc	
	Head Office EMC Lab. No.11 measurement room	
Company	silex technology, Inc.	Regulation
Equipment	MiniPCI Wireless LAN Board	FCC Section 15.247 (e)
Model	SX-10WAN	Test Distance
S/N	008092011316	-
Power	DC 3.3V	Date
Mode	11n, Tx, 270Mbps, Ant 1,2,3	Jun / 03 / 2008
		Temperature
		22deg.C.
		Humidity
		60%
		Engineer
		Norihisa Hashimoto

Antenna Port	Ch	Freq.	S/A Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant1+2+3	Low	5755.0	-	-	-	-13.06	0.05	8.00	6.31	21.06
	High	5795.0	-	-	-	-10.84	0.08	8.00	6.31	18.84

Antenna Port	Ch	Freq.	S/A Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
		[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Ant1	Low	5747.5	-31.71	3.07	10.14	-18.50	0.01	8.00	6.31	26.50
	High	5800.3	-30.63	3.11	10.15	-17.37	0.02	8.00	6.31	25.37
Ant2	Low	5761.6	-32.65	3.07	10.14	-19.44	0.01	8.00	6.31	27.44
	High	5795.0	-26.64	3.11	10.15	-13.38	0.05	8.00	6.31	21.38
Ant3	Low	5759.0	-29.42	3.07	10.14	-16.21	0.02	8.00	6.31	24.21
	High	5780.3	-30.68	3.11	10.15	-17.42	0.02	8.00	6.31	25.42

Sample Calculation:

Result = Reading + Cable Loss + Attenuator Loss

*The equipment and cables were not used for factor 0.0dB of the above table.

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

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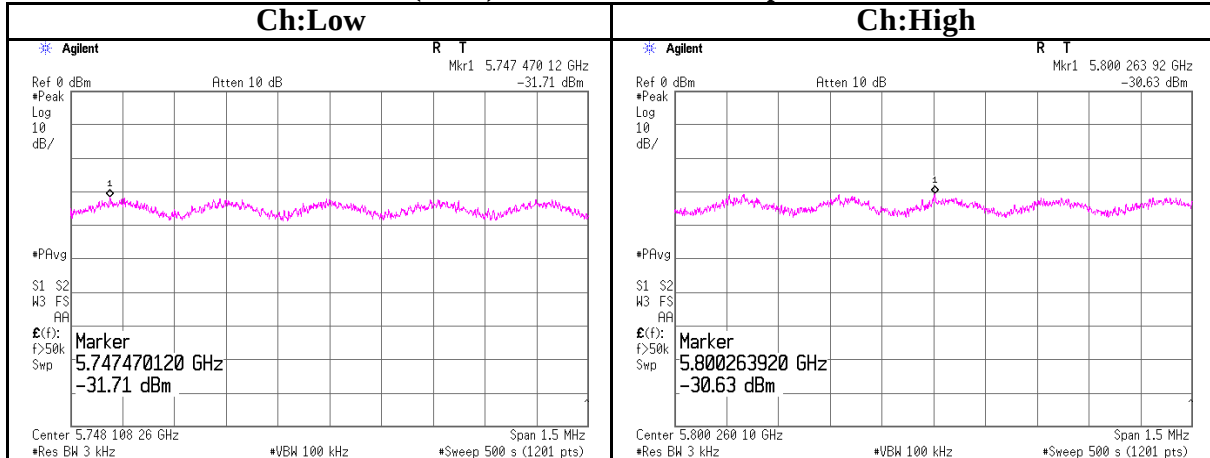
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Telephone : +81 596 24 8116

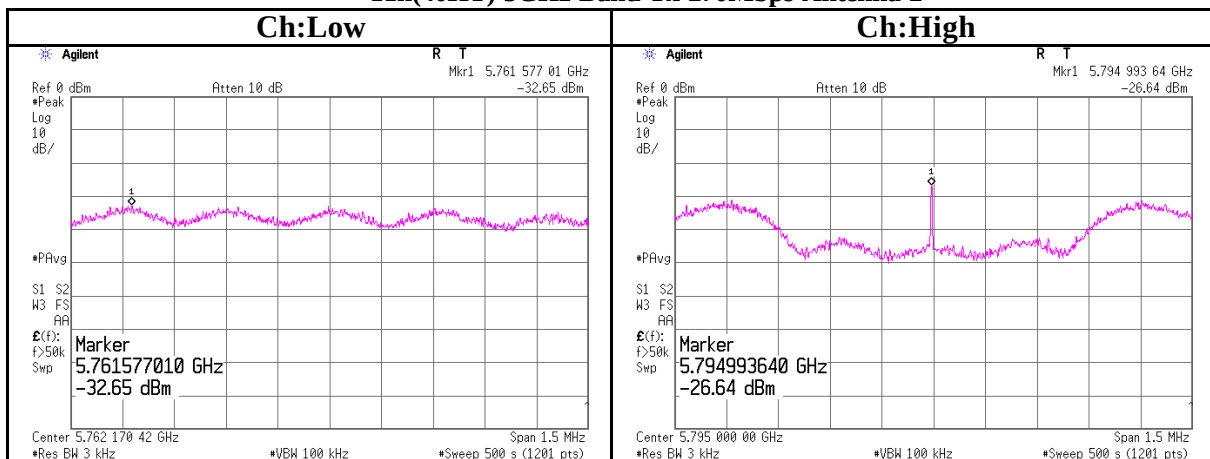
Facsimile : +81 596 24 8124

Power Density

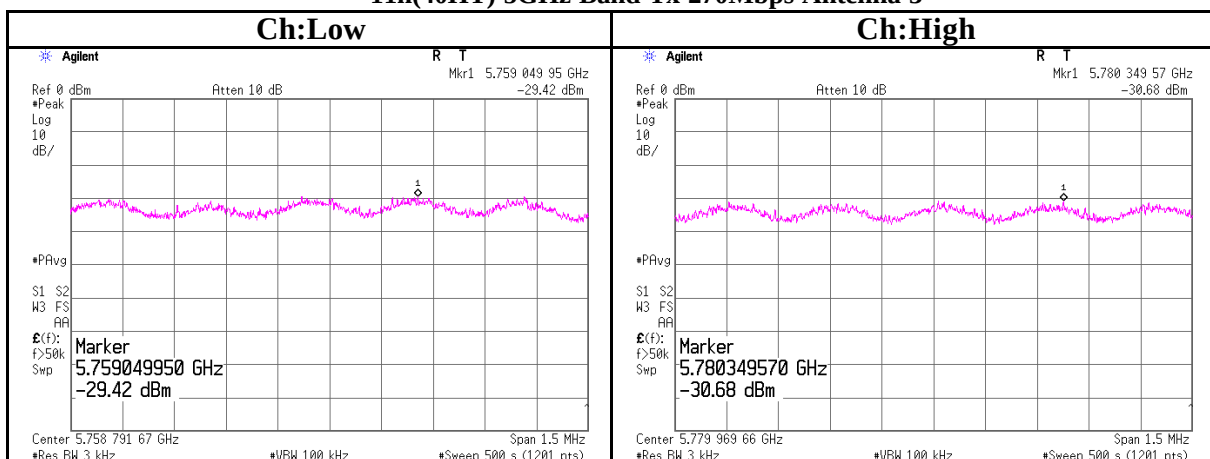
11n(40HT) 5GHz Band Tx 270Mbps Antenna 1



11n(40HT) 5GHz Band Tx 270Mbps Antenna 2



11n(40HT) 5GHz Band Tx 270Mbps Antenna 3



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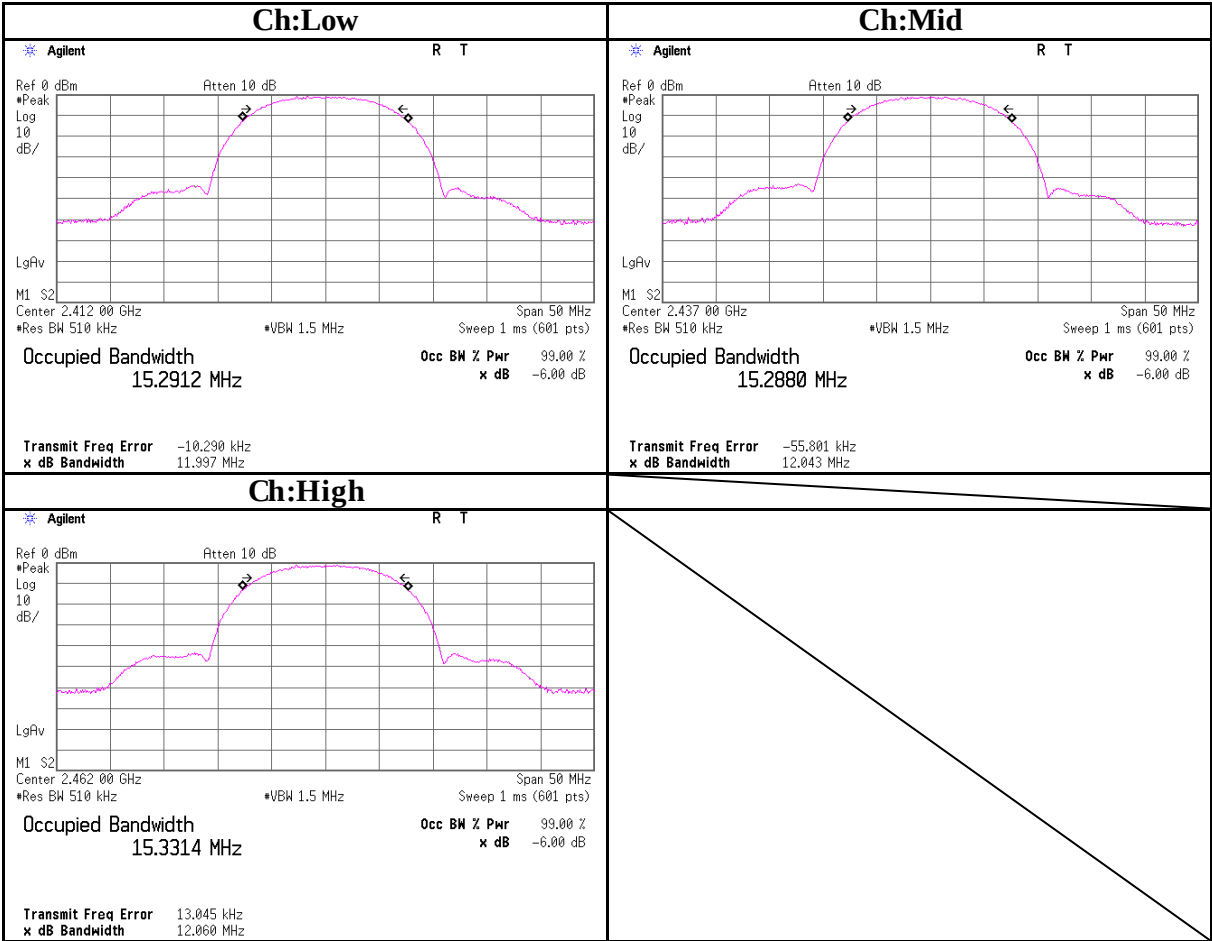
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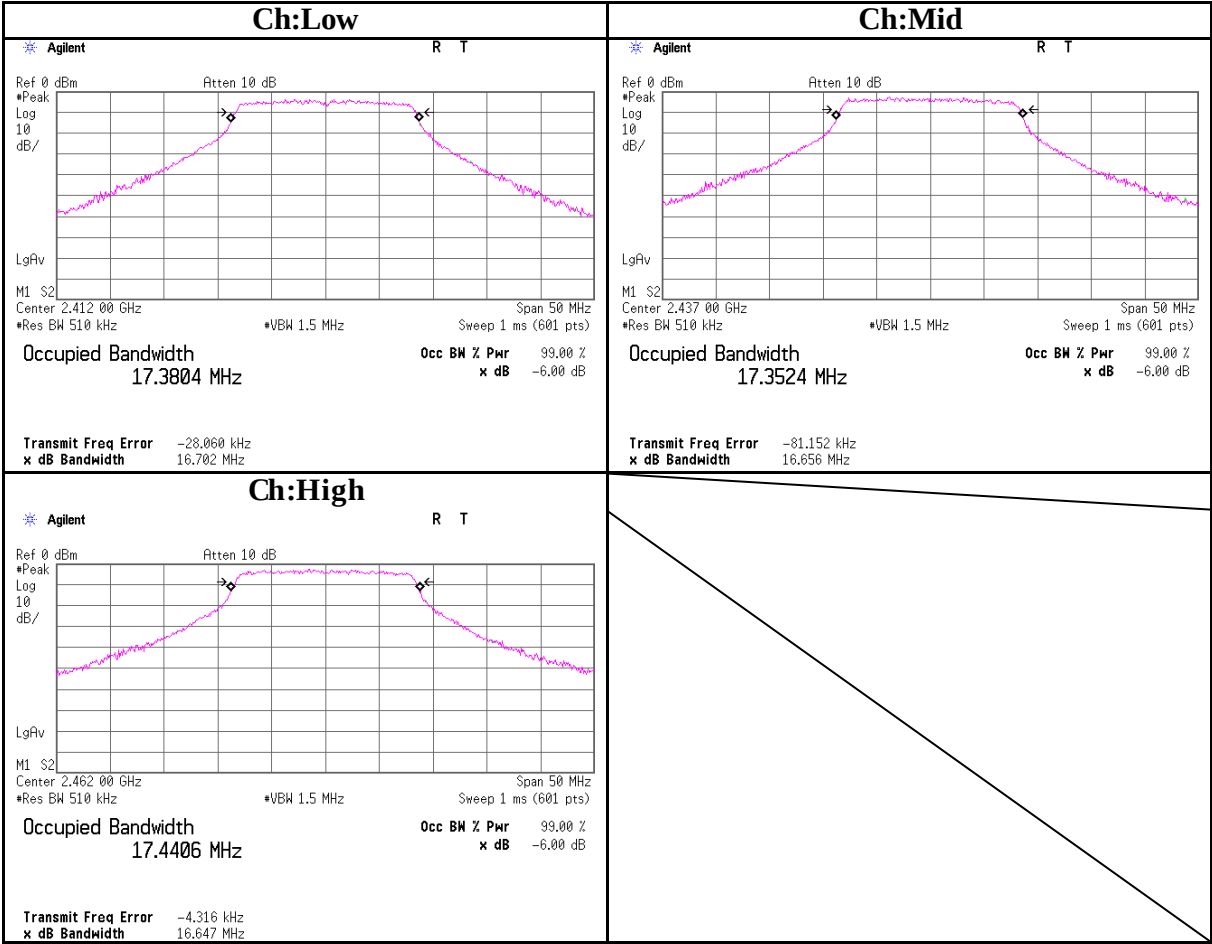
Facsimile : +81 596 24 8124

99%Occupied Bandwidth
11b Tx 11Mbps Antenna 3



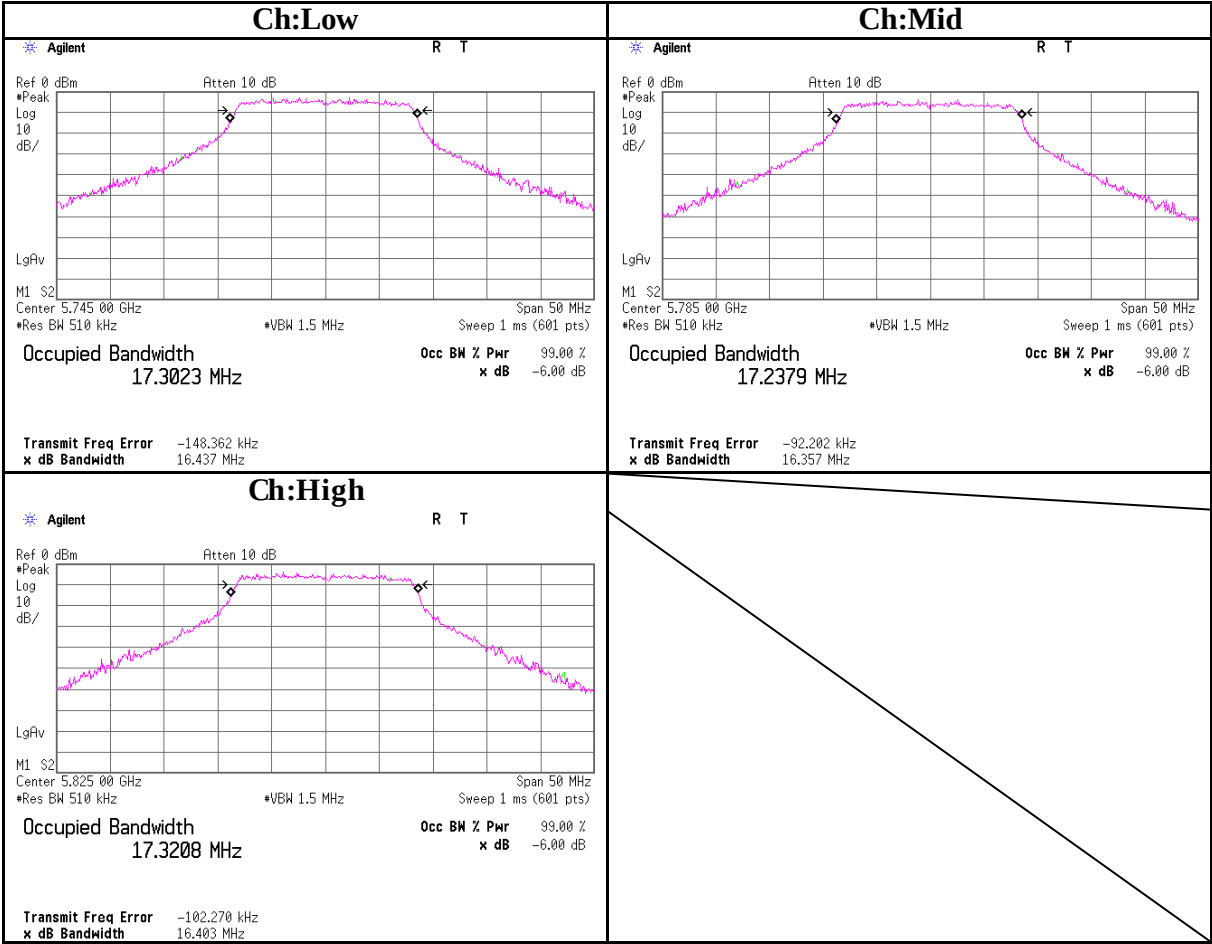
99%Occupied Bandwidth

11g Tx 54Mbps Antenna 3

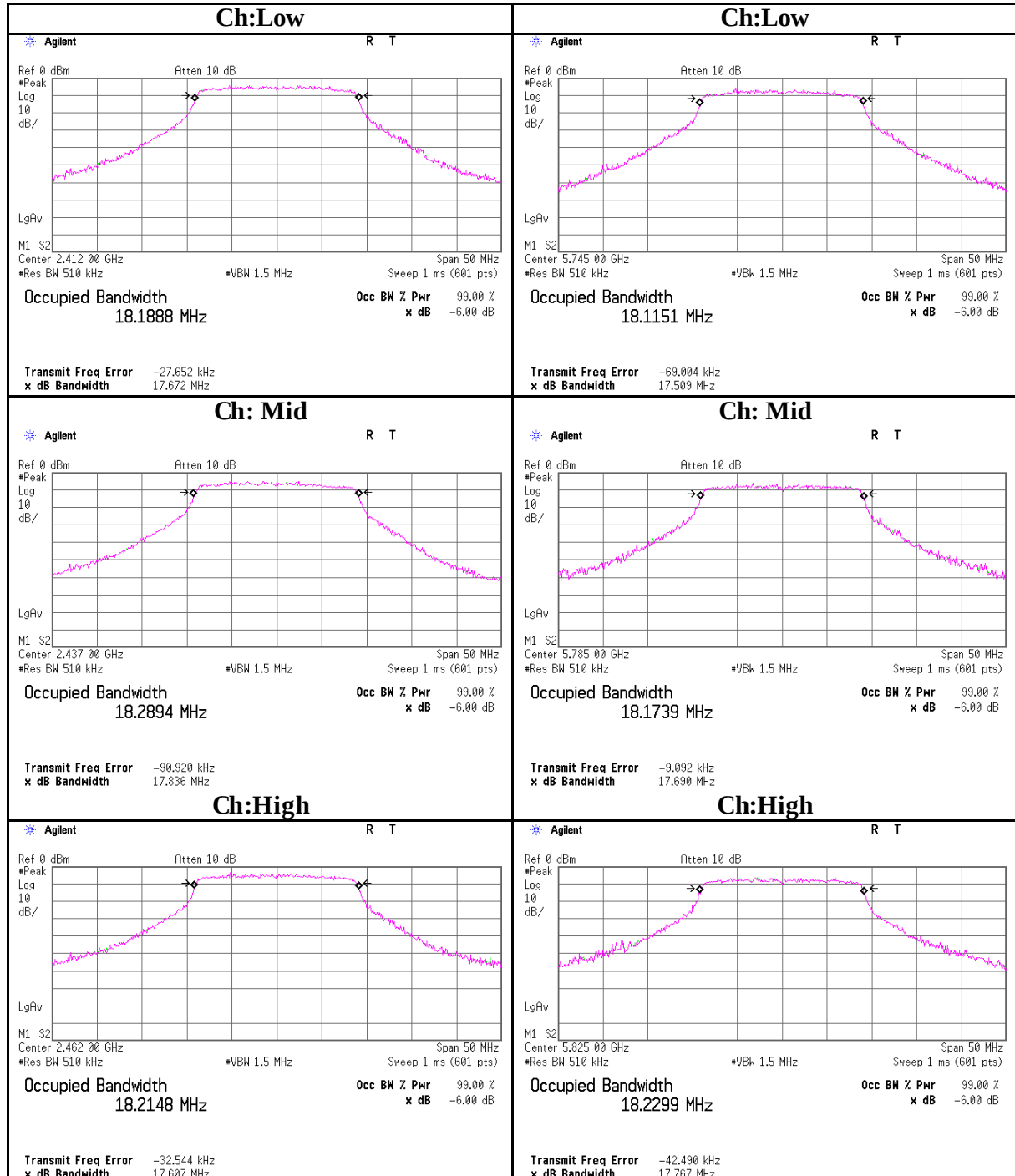


99%Occupied Bandwidth

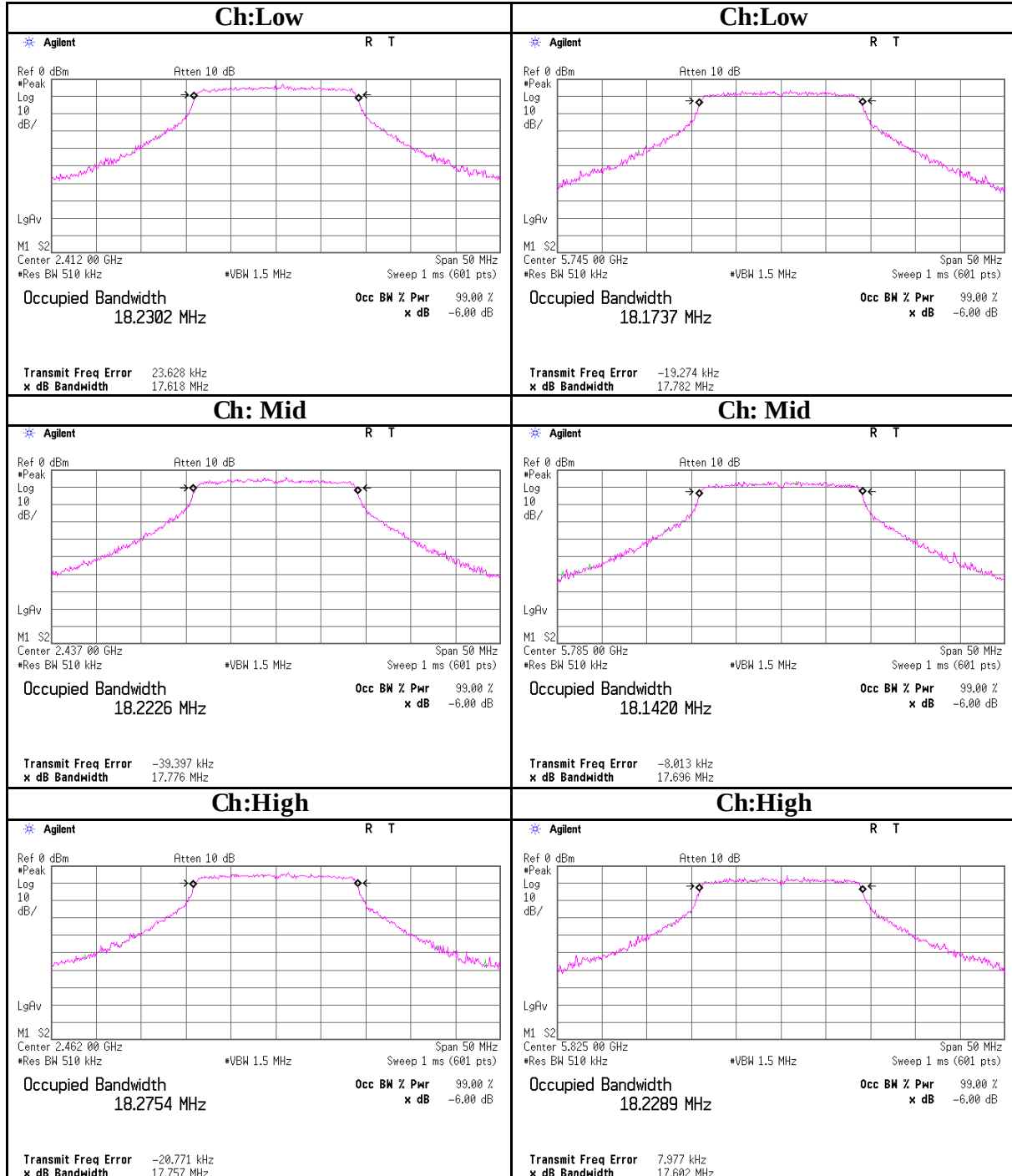
11a Tx 54Mbps Antenna 3



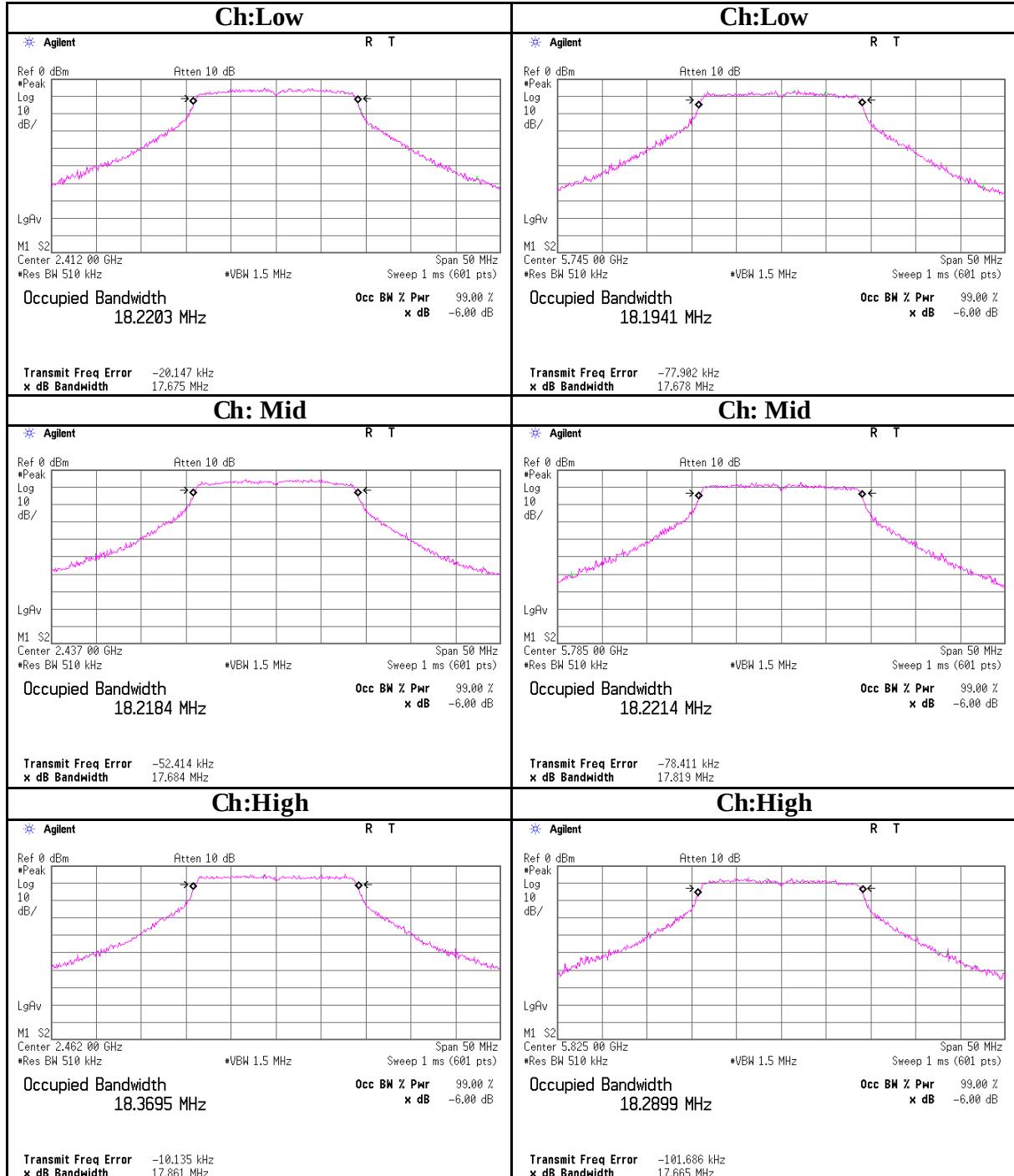
99% Occupied Bandwidth
11n(20HT) Tx 130Mbps Antenna 1



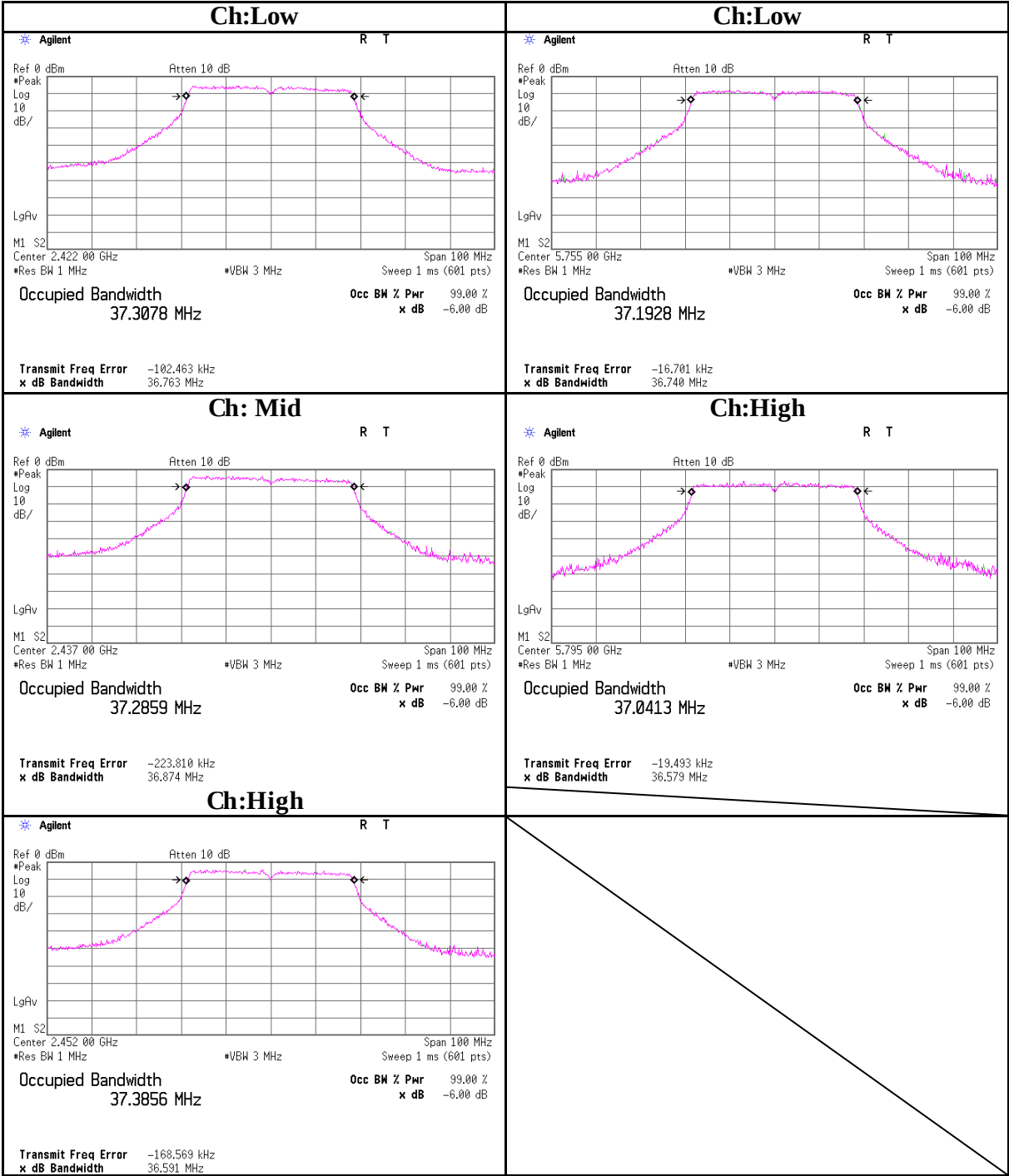
99% Occupied Bandwidth
11n(20HT) Tx 130Mbps Antenna 2



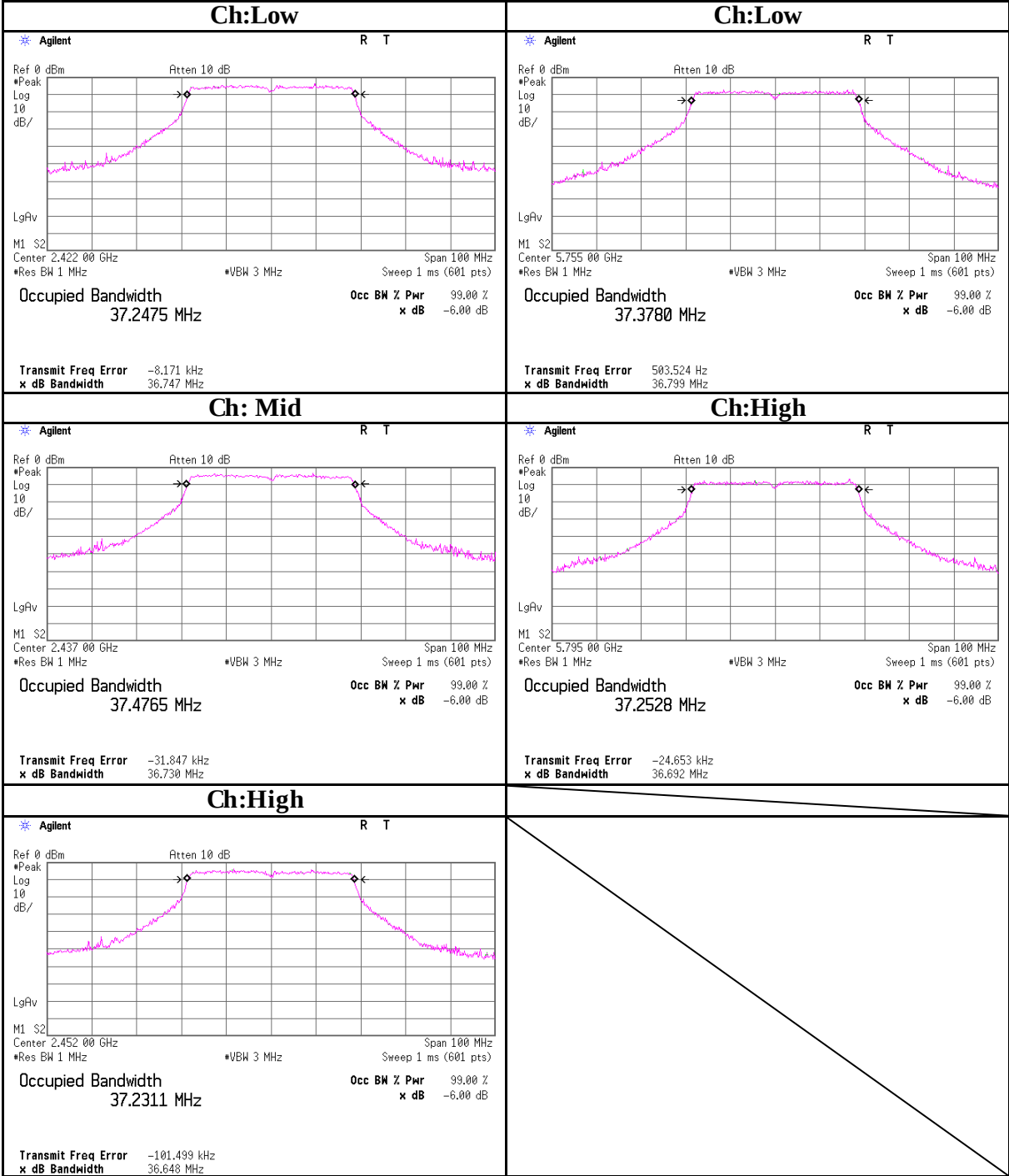
99% Occupied Bandwidth
11n(20HT) Tx 130Mbps Antenna 3



99%Occupied Bandwidth
11n(40HT) Tx 270Mbps Antenna 1

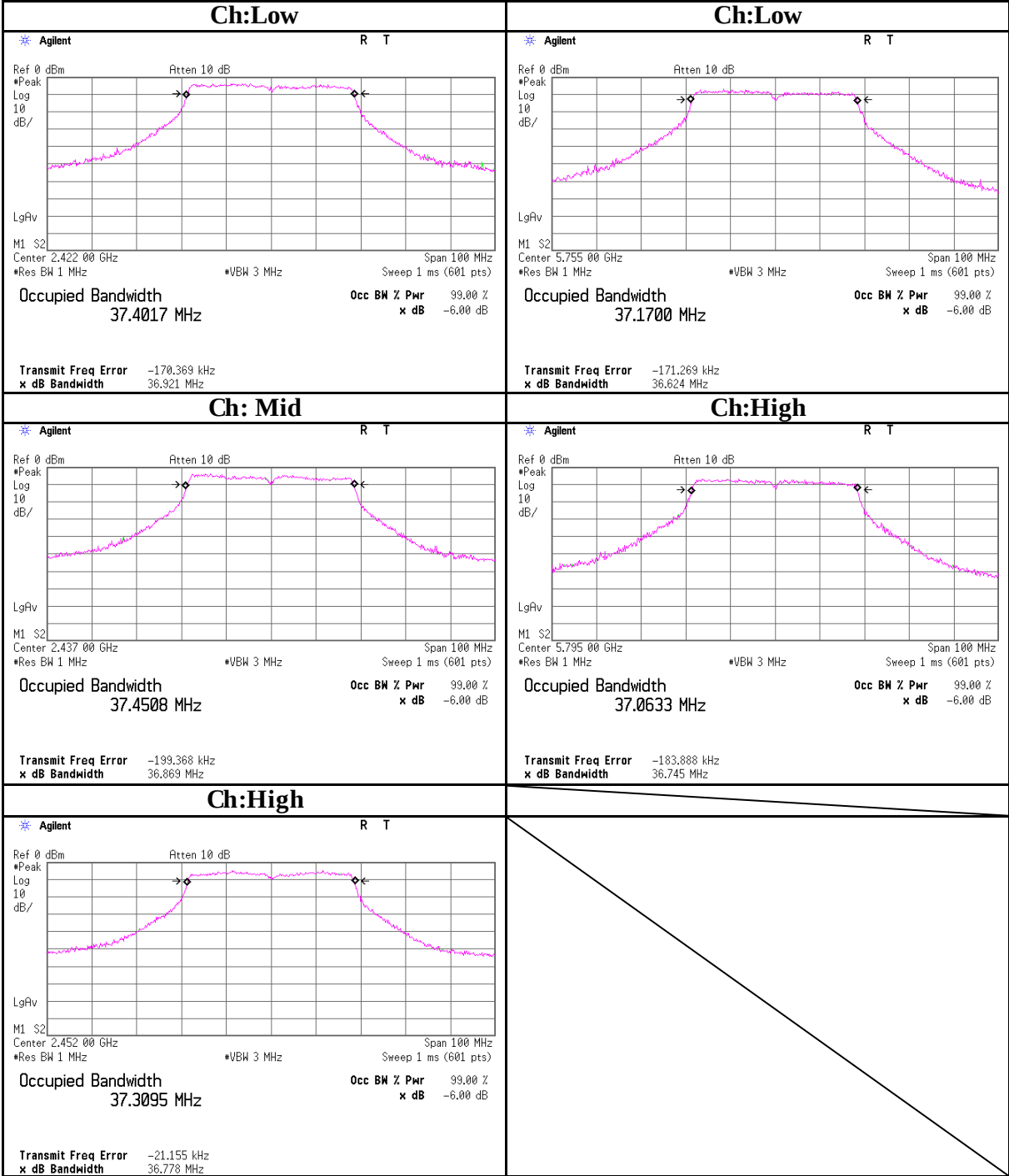


99%Occupied Bandwidth
11n(40HT) Tx 270Mbps Antenna 2



99%Occupied Bandwidth

11n(40HT) Tx 270Mbps Antenna 3



APPENDIX 3:Test instruments

EMI test equipment (1/2)

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MAEC-04	Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE/CE	2009/02/03 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	-	RE/CE	2009/02/06 * 12
MJM-07	Measure	PROMART	SEN1955	-	RE/CE	-
CUST-MSTW-14	EMI measurement program	TSJ	TEPTO-DV	-	RE/CE	-
MPA-14	Pre Amplifier	SONOMA INSTRUMENT	310	260833	RE	2009/03/18 * 12
MTR-07	Test Receiver	Rohde & Schwarz	ESCI	100635	RE	2008/10/03 * 12
MBA-05	Biconical Antenna	Schwarzbeck	BBA9106	1302	RE	2009/01/10 * 12
MLA-08	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	N/A	RE	2009/01/10 * 12
MCC-50	Coaxial cable	UL Japan	-	-	RE	2009/03/18 * 12
MAT-31	Attenuator(6dB)	TME	UFA-01	-	RE	2009/03/03 * 12
MAEC-02	Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-06902	RE	2008/04/17 * 12
MOS-22	Thermo-Hygrometer	Custom	CTH-201	0003	RE	2009/02/05 * 12
MJM-05	Measure	PROMART	SEN1955	-	RE	-
MRENT-62	Spectrum Analyzer	Agilent	E4448A	MY46180856	RE	2008/11/25 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	100300	RE	2009/04/14 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	VHA91032008	RE	2008/10/18 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	201	RE	2008/10/18 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	-	RE	2009/02/16 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	BK7970	RE	2008/11/14 * 12
MPA-09	Pre Amplifier	Agilent	8447D	2944A10845	RE	2008/09/04 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	US44300523	RE/AT	2008/08/18 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	9120D-557	RE	2008/08/11 * 12
MCC-57	Microwave Cable 1G-26.5GHz (6.0m)	Suhner	SUCOFLEX104	246769(1m) / 292411(5m)	RE	2008/11/05 * 12
MPA-12	MicroWave System Amplifier	Agilent	83017A	MY39500780	RE	2009/03/19 * 12
MHA-17	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	BBHA9170307	RE	2008/04/30 * 12
MHF-20	High Pass Filter 3.5-18.0GHz	TOKIMEC	TF323DCC	607	RE	2008/12/12 * 12
MCC-79	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	278923/4	RE	2008/12/17 * 12
MHF-23	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCC	603	RE	2009/01/23 * 12

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EMI test equipment (2/2)

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MPA-03	Microwave System Power Amplifier	Agilent	83050A	3950M00205	RE	2008/06/26 * 12
MOS-19	Thermo-Hygrometer	Custom	CTH-201	0001	AT	2008/12/08 * 12
MSA-10	Spectrum Analyzer	Agilent	E4448A	MY46180655	AT	2009/02/25 * 12
MCC-37	Microwave Cable	Hirose Electric	U.FL-2LP -066-A- (200)	-	AT	2008/11/18 * 12
MCC-66	Microwave Cable 1G- 40GHz	Schner	SUCOFLEX102	28636/2	AT	2008/04/04 * 12
MAT-25	Attenuator(10dB)(above 1GHz)	Agilent	8493C	71642	AT	2008/06/25 * 12
MPM-08	Power Meter	Anritsu	ML2495A	6K00003338	AT	2008/09/24 * 12
MPSE-11	Power sensor	Anritsu	MA2411B	011737	AT	2008/09/24 * 12
MRENT-67	Spectrum Analyzer	Agilent	E4448A	MY46180855	RE	2008/04/02 * 12
MOS-23	Thermo-Hygrometer	Custom	CTH-201	0004	AT	2008/12/08 * 12
MSA-05	Spectrum Analyzer	Advantest	R3273	160400285	CE	2008/06/25 * 12
MTR-07	Test Receiver	Rohde & Schwarz	ESCI	100635	CE	2008/10/03 * 12
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	8127364	CE (EUT)	2009/02/18 * 12
MCC-50	Coaxial cable	UL Japan	-	-	CE	2009/03/18 * 12
MPS-02	Power Splitter	Mini-Circuits	ZN4PD1-63-S+	001	AT	2008/05/02 * 12
MCC-35	Microwave Cable	Hirose Electric	U.FL-2LP -066-A- (200)	-	AT	2008/11/18 * 12
MCC-36	Microwave Cable	Hirose Electric	U.FL-2LP -066-A- (200)	-	AT	2008/11/18 * 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

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