

Spurious Emission (Radiated:LAN-11b,Tx2412MHz) below 1GHz

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2004/10/12 11:38:44

Applicant : Sony Corporation
 Kind of EUT : Personal Computer
 Model No. : PCV-E21L
 Serial No. : 16

Report No. : 25BE0202-H0
 Power : AC120V/60Hz
 Temp./ Humi. : 25 deg.C. / 60 %
 Operator : Hiroka Umeyama

Mode / Remarks : Wireless LAN(11b) Tx:2412MHz

LIMIT : FCC15C § 15.247(c) 3m, below 1GHz:QP, above 1GHz:AV
 Except for the data below : adequate margin data below the limits.

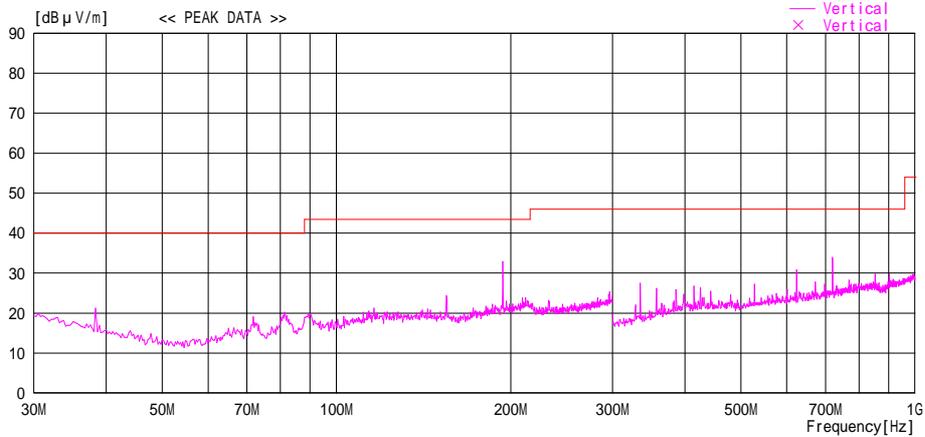
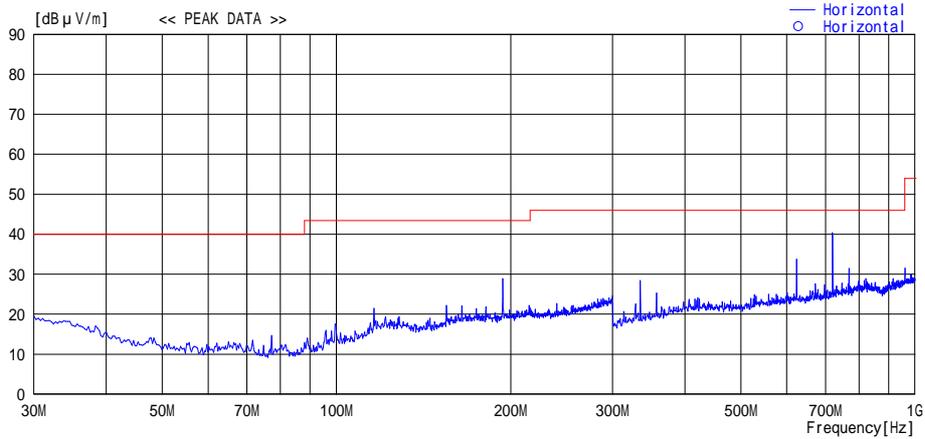


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Spurious Emission (Radiated:LAN-11b,Tx2437MHz) below 1GHz

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/10/12 11:46:04

Applicant : Sony Corporation
 Kind of EUT : Personal Computer
 Model No. : PCV-E21L
 Serial No. : 16

Report No. : 25BE0202-H0
 Power : AC120V/60Hz
 Temp./ Humi. : 25 deg.C. / 60 %
 Operator : Hiroka Umeyama

Mode / Remarks : Wireless LAN(11b) Tx:2437MHz

LIMIT : FCC15C § 15.247(c) 3m, below 1GHz:QP, above 1GHz:AV
 Except for the data below : adequate margin data below the limits.

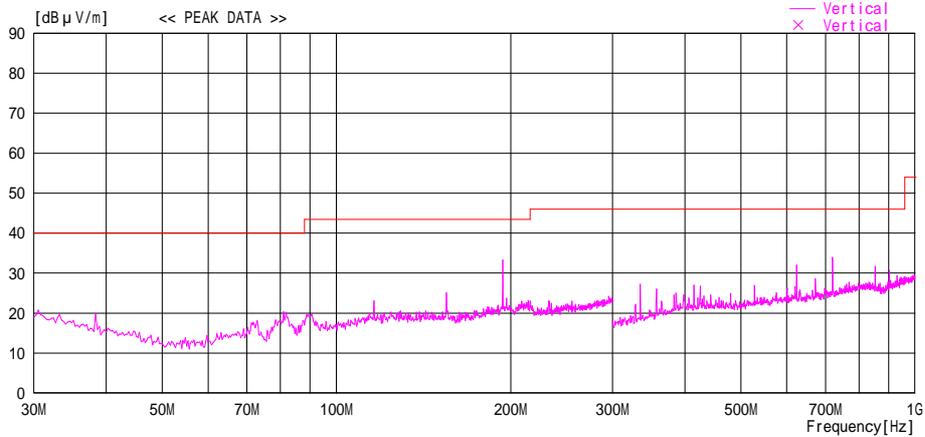
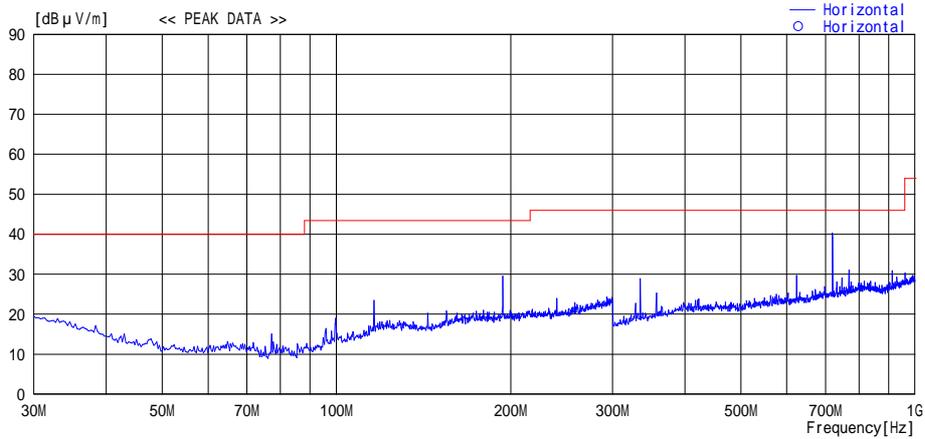


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Spurious Emission (Radiated:LAN-11b,Tx2462MHz) below 1GHz

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2004/10/12 11:53:05

Applicant : Sony Corporation
 Kind of EUT : Personal Computer
 Model No. : PCV-E21L
 Serial No. : 16

Report No. : 25BE0202-H0
 Power : AC120V/60Hz
 Temp./ Humi. : 25 deg.C. / 60 %
 Operator : Hiroka Umeyama

Mode / Remarks : Wireless LAN(11b) Tx:2462MHz

LIMIT : FCC15C § 15.247(c) 3m, below 1GHz:QP, above 1GHz:AV
 Except for the data below : adequate margin data below the limits.

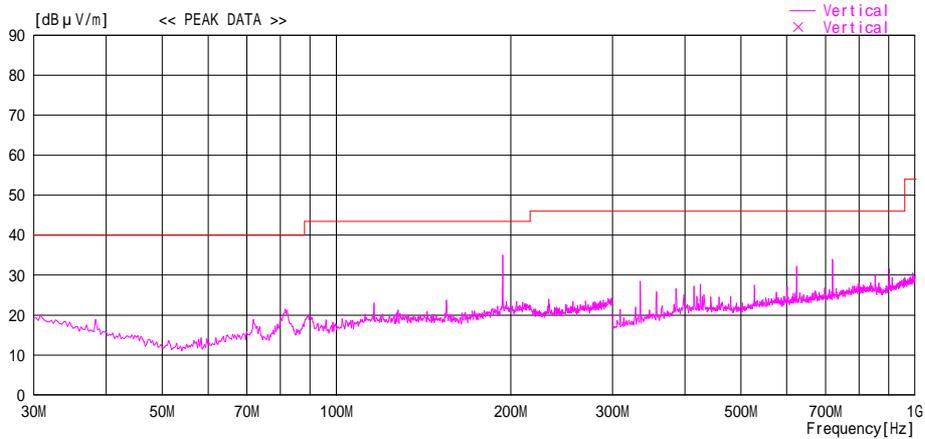
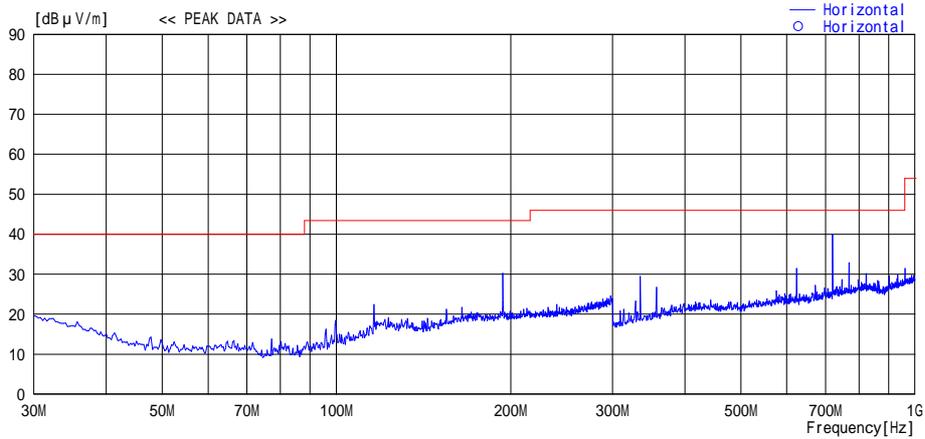


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Spurious Emission (Radiated:LAN-11g,Tx2412MHz) below 1GHz

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/10/12 12:00:54

Applicant : Sony Corporation
 Kind of EUT : Personal Computer
 Model No. : PCV-E21L
 Serial No. : 16

Report No. : 25BE0202-H0
 Power : AC120V/60Hz
 Temp./ Humi. : 25 deg.C. / 60 %
 Operator : Hiroka Umeyama

Mode / Remarks : Wireless LAN(11g) Tx:2412MHz

LIMIT : FCC15C § 15.247(c) 3m, below 1GHz:QP, above 1GHz:AV
 Except for the data below : adequate margin data below the limits.

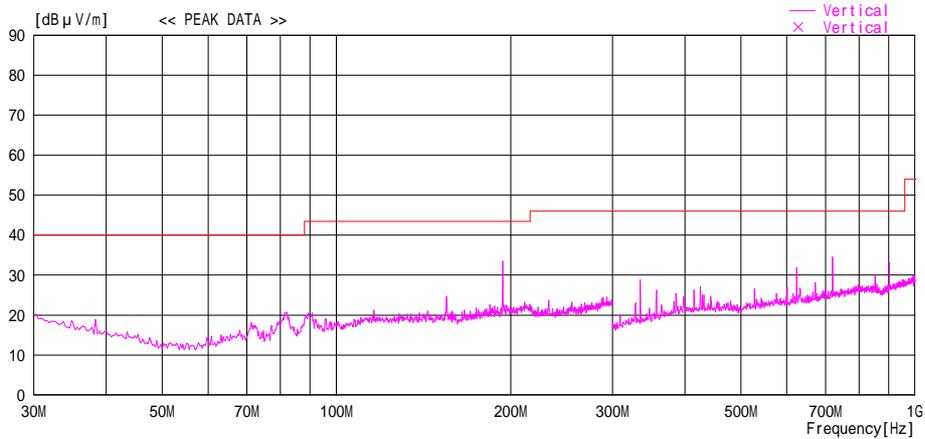
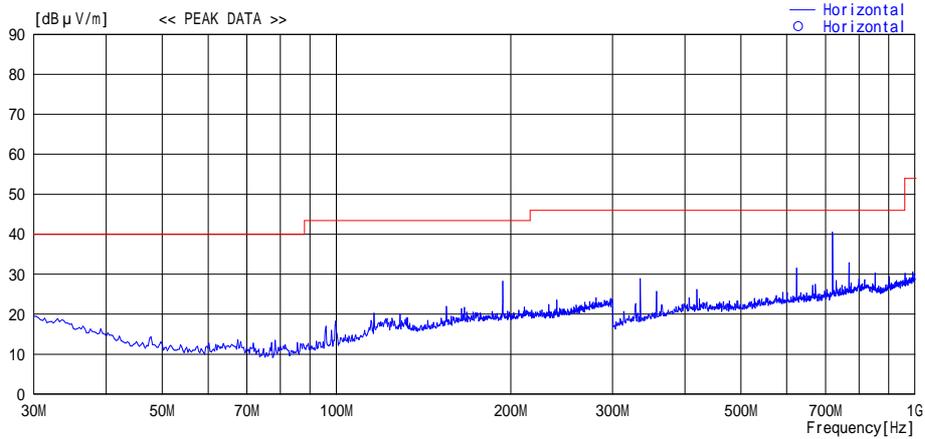


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Spurious Emission (Radiated:LAN-11g,Tx2437MHz) below 1GHz

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/10/12 12:07:19

Applicant : Sony Corporation
 Kind of EUT : Personal Computer
 Model No. : PCV-E21L
 Serial No. : 16

Report No. : 25BE0202-H0
 Power : AC120V/60Hz
 Temp./ Humi. : 25 deg.C. / 60 %
 Operator : Hiroka Umeyama

Mode / Remarks : Wireless LAN(11g) Tx:2437MHz

LIMIT : FCC15C § 15.247(c) 3m, below 1GHz:QP, above 1GHz:AV
 Except for the data below : adequate margin data below the limits.

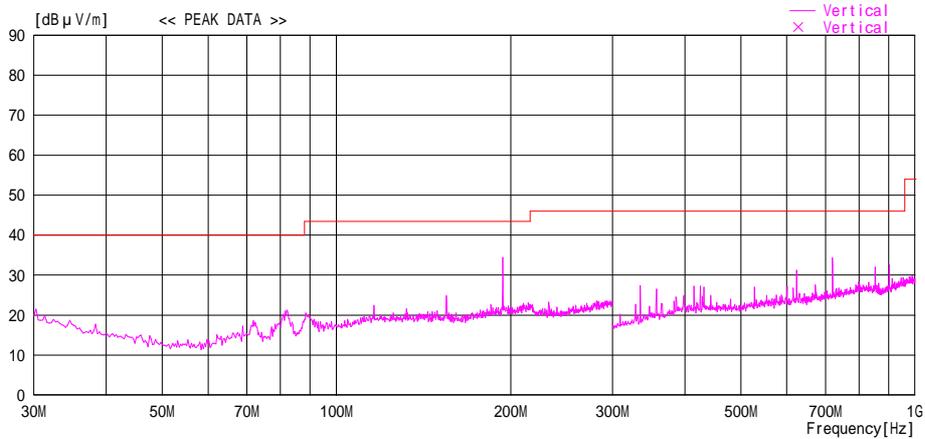
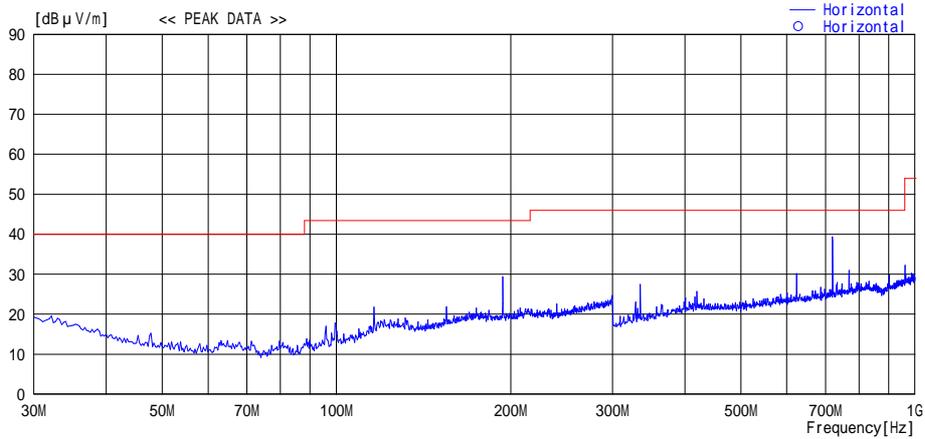


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Spurious Emission (Radiated:LAN-11g,Tx2462MHz) below 1GHz

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/10/12 12:46:03

Applicant : Sony Corporation
 Kind of EUT : Personal Computer
 Model No. : PCV-E21L
 Serial No. : 16

Report No. : 25BE0202-H0
 Power : AC120V/60Hz
 Temp./ Humi. : 25 deg.C. / 60 %
 Operator : Hiroka Umeyama

Mode / Remarks : Wireless LAN(11g) Tx:2462MHz

LIMIT : FCC15C § 15.247(c) 3m, below 1GHz:QP, above 1GHz:AV
 Except for the data below : adequate margin data below the limits.

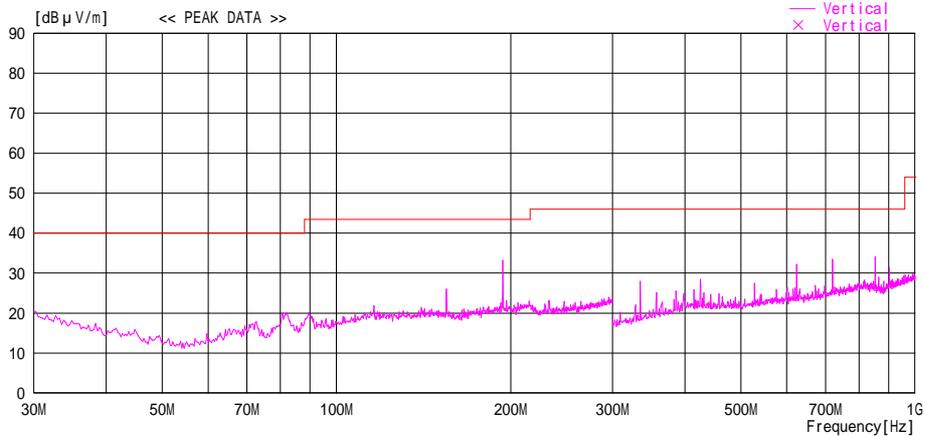
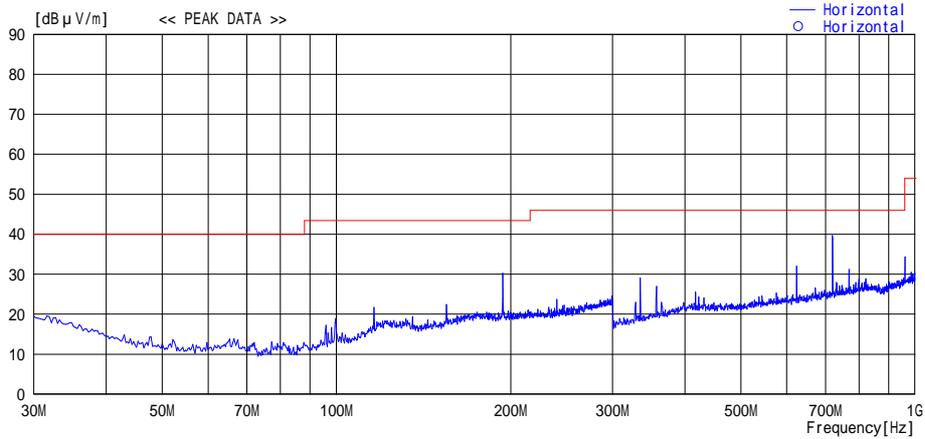


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Spurious Emission (Receiver, Tx2402) below 1GHz

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2004/10/12 11:12:24

Applicant	: Sony Corporation	Report No.	: 25BE0202-HO
Kind of EUT	: Personal Computer	Power	: AC120V/60Hz
Model No.	: PCV-E21L	Temp./ Humi.	: 25 deg.C. / 60 %
Serial No.	: 16	Operator	: Hiroka Umeyama

Mode / Remarks : Wireless Receiver Tx:2402MHz

LIMIT : FCC15C § 15.247(c) 3m, below 1GHz:QP, above 1GHz:AV
 Except for the data below : adequate margin data below the limits.

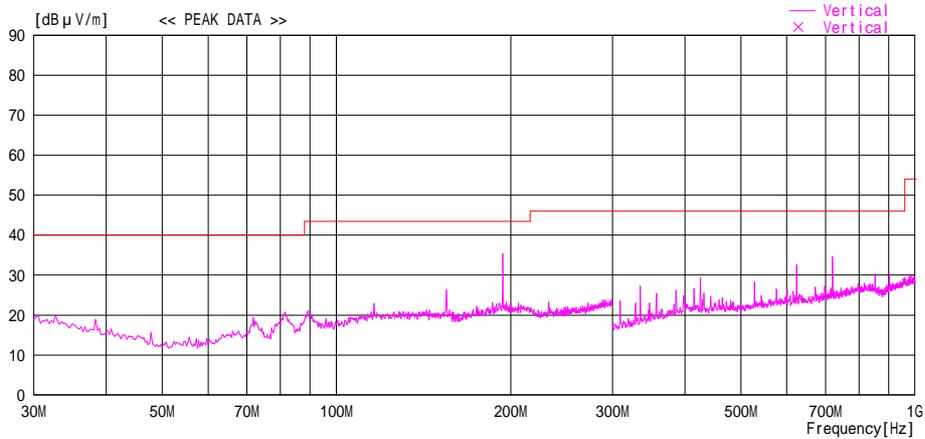
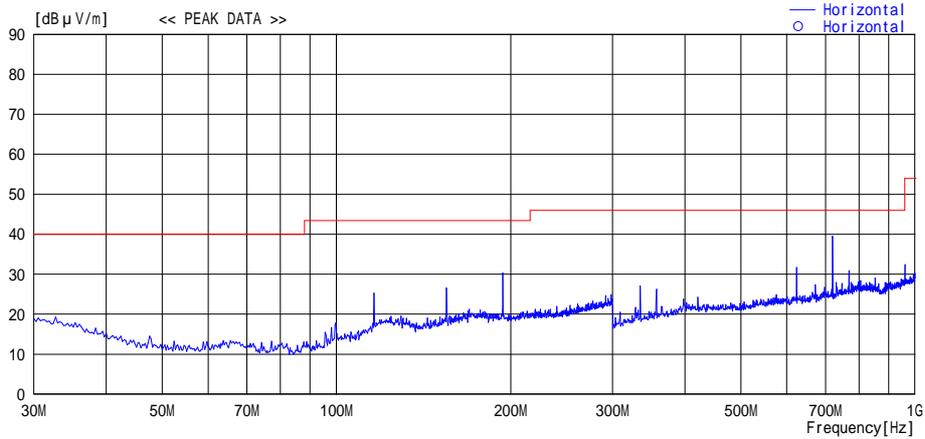


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Spurious Emission (Receiver, Tx2440) below 1GHz

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2004/10/12 11:22:32

Applicant	: Sony Corporation	Report No.	: 25BE0202-HO
Kind of EUT	: Personal Computer	Power	: AC120V/60Hz
Model No.	: PCV-E21L	Temp./ Humi.	: 25 deg.C. / 60 %
Serial No.	: 16	Operator	: Hiroka Umeyama

Mode / Remarks : Wireless Receiver Tx:2440MHz

LIMIT : FCC15C § 15.247(c) 3m, below 1GHz:QP, above 1GHz:AV
 Except for the data below : adequate margin data below the limits.

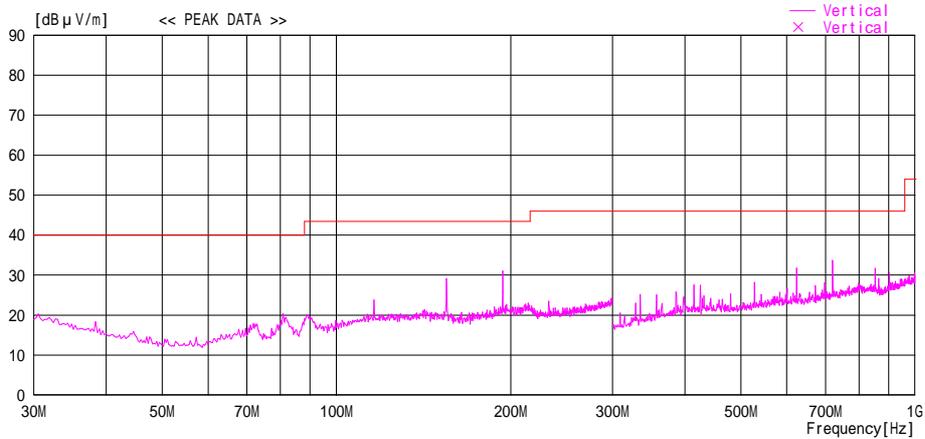
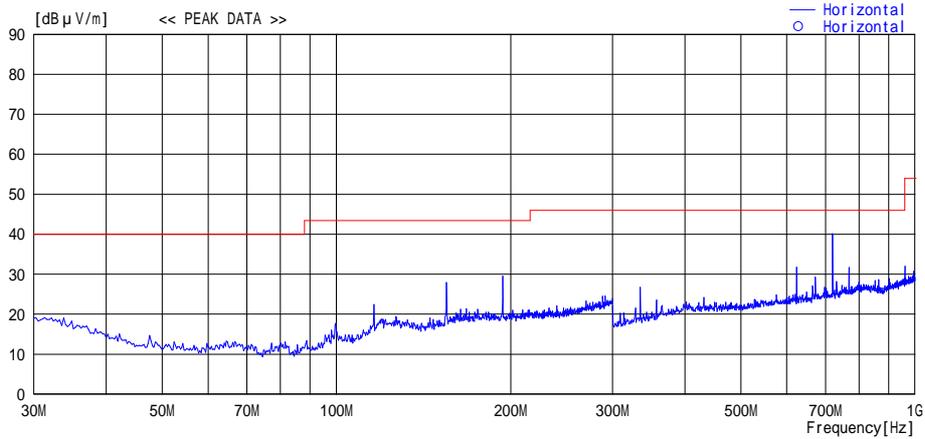


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Spurious Emission (Receiver, Tx2479) below 1GHz

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2004/10/12 11:29:51

Applicant	: Sony Corporation	Report No.	: 25BE0202-HO
Kind of EUT	: Personal Computer	Power	: AC120V/60Hz
Model No.	: PCV-E21L	Temp./ Humi.	: 25 deg.C. / 60 %
Serial No.	: 16	Operator	: Hiroka Umeyama

Mode / Remarks : Wireless Receiver Tx:2479MHz

LIMIT : FCC15C § 15.247(c) 3m, below 1GHz:QP, above 1GHz:AV
 Except for the data below : adequate margin data below the limits.

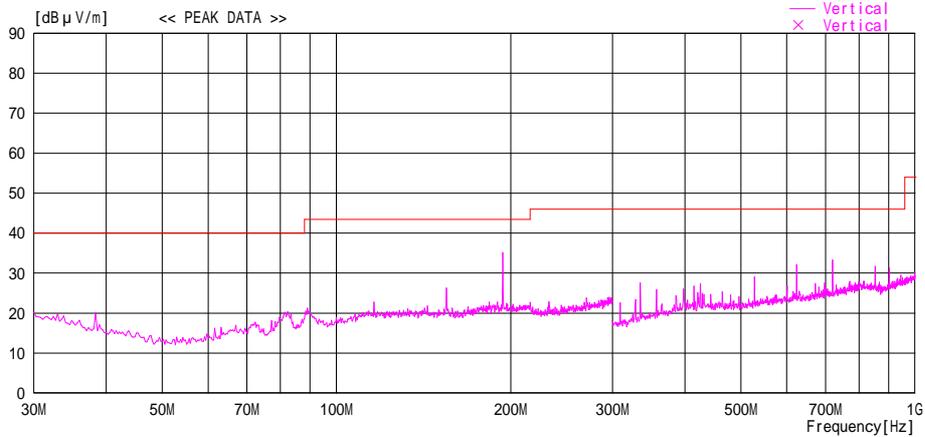
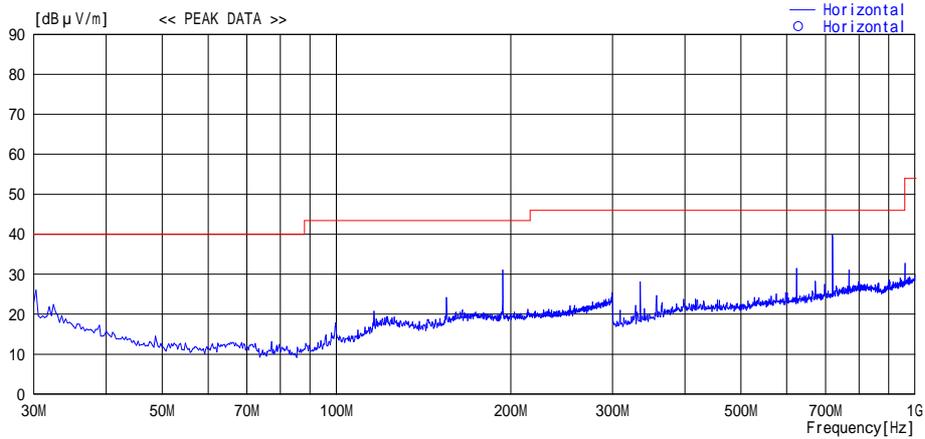


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

Spurious Emission (Radiated:LAN-11b,Tx2412MHz(Worst)+Reciever,Tx2402) below 1GHz

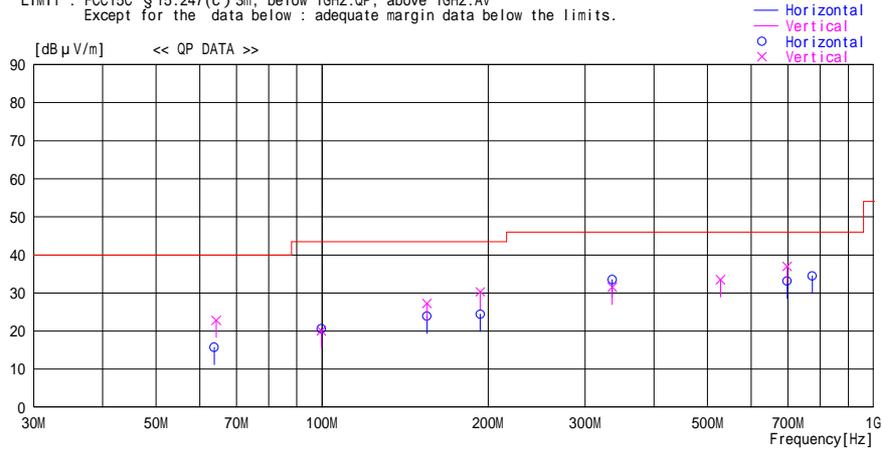
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2004/09/29 11:26:10

Applicant : Sony Corporation
 Kind of EUT : Personal Computer
 Model No. : PCV-E21L
 Serial No. : 16
 Report No. : 25BE0202-HO
 Power : AC120V/60Hz
 Temp./ Humi. : 26 deg.C. / 60 %
 Operator : Hiroka Umeyama

Mode / Remarks : Wireless LAN(11b) Tx:2412MHz, Wireless Receiver Tx:2402MHz, Mouse/Keyboard Tx:2402MHz

LIMIT : FCC15C § 15.247(c) 3m, below 1GHz:QP, above 1GHz:AV
 Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	63.750	29.0	7.6	6.9	27.8	15.7	40.0	24.3	290	80
2	99.720	30.9	10.1	7.2	27.6	20.6	43.5	22.9	115	0
3	155.000	28.7	14.9	7.6	27.3	23.9	43.5	19.6	220	25
4	193.700	27.1	16.6	7.8	27.1	24.4	43.5	19.1	130	45
5	336.050	36.5	15.6	8.4	27.0	33.5	46.0	12.5	100	160
6	697.410	30.9	20.1	10.2	28.1	33.1	46.0	12.9	160	0
7	774.890	31.0	21.2	10.4	28.1	34.5	46.0	11.5	100	0
----- Vertical -----										
8	64.300	36.2	7.5	6.9	27.8	22.8	40.0	17.2	100	0
9	99.720	30.4	10.1	7.2	27.6	20.1	43.5	23.4	100	0
10	155.000	32.0	14.9	7.6	27.3	27.2	43.5	16.3	100	0
11	193.700	33.0	16.6	7.8	27.1	30.3	43.5	13.2	100	0
12	336.050	34.5	15.6	8.4	27.0	31.5	46.0	14.5	100	110
13	528.070	33.6	18.7	9.4	28.2	33.5	46.0	12.5	100	0
14	697.410	34.8	20.1	10.2	28.1	37.0	46.0	9.0	177	0

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

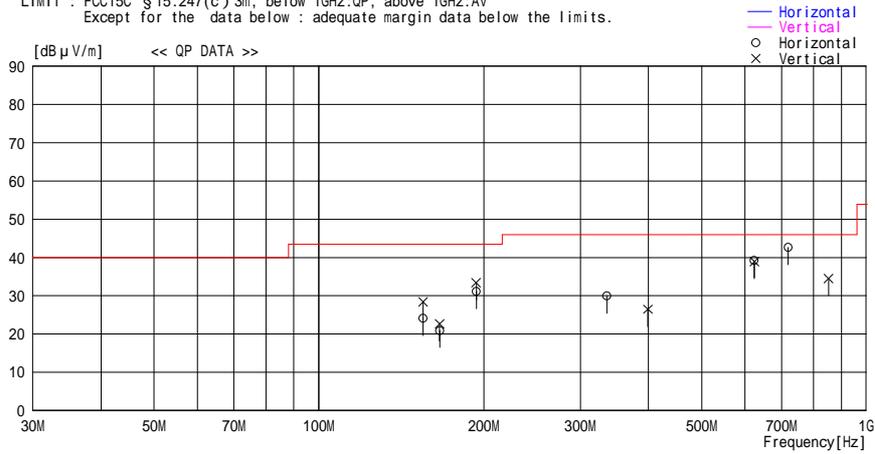
Spurious Emission (Radiated:LAN-11b,Tx2412MHz(Worst)+Reciever,Tx2440) below 1GHz

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2004/10/11 09:42:49

Applicant : Sony Corporation
 Kind of EUT : Personal Computer
 Model No. : PCV-E21L
 Serial No. : 16
 Report No. : 25BE0202-HO
 Power : AC120V/60Hz
 Temp./ Humi. : 26 deg.C. / 60 %
 Operator : Hiroka Umeyama

Mode / Remarks : Wireless LAN(11b) Tx:2412MHz, Wireless Receiver Tx:2440MHz, Mouse Tx:2445MHz, Keyboard Tx:2440MHz
 LIMIT : FCC15C §15.247(c) 3m, below 1GHz:QP, above 1GHz:AV
 Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	154.986	30.6	15.0	5.9	27.4	24.1	43.5	19.4	100	0
2	166.232	26.8	15.5	6.0	27.4	20.9	43.5	22.6	100	0
3	193.746	35.3	16.6	6.5	27.3	31.1	43.5	12.4	100	359
4	336.052	34.4	15.7	7.3	27.5	29.9	46.0	16.1	100	163
5	624.093	39.2	19.7	9.2	28.9	39.2	46.0	6.8	216	121
6	720.104	41.2	20.5	9.6	28.7	42.6	46.0	3.4	100	126
----- Vertical -----										
7	155.009	34.9	15.0	5.9	27.4	28.4	43.5	15.1	100	359
8	165.978	28.6	15.5	6.0	27.4	22.7	43.5	20.8	100	0
9	193.749	37.6	16.6	6.5	27.3	33.4	43.5	10.1	258	359
10	398.801	28.2	18.3	7.9	27.9	26.5	46.0	19.5	100	15
11	624.095	38.9	19.7	9.2	28.9	38.9	46.0	7.1	100	185
12	852.409	31.5	21.4	10.2	28.6	34.5	46.0	11.5	100	359

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)

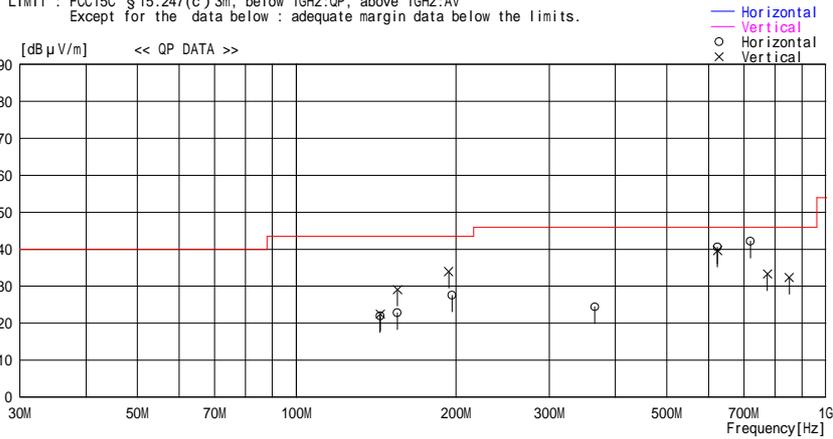
Spurious Emission (Radiated:LAN-11b,Tx2412MHz(Worst)+Reciever,Tx2479) below 1GHz

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2004/10/11 10:23:30

Applicant : Sony Corporation
 Kind of EUT : Personal Computer
 Model No. : PCV-E21L
 Serial No. : 16
 Report No. : 25BE0202-HO
 Power : AC120V/60Hz
 Temp./ Humi. : 26 deg.C. / 60 %
 Operator : Hiroka Umeyama

Mode / Remarks : Wireless LAN(11b) Tx:2412MHz, Wireless Receiver Tx:2479MHz, Mouse Tx:2479MHz, Keyboard
 Tx:2479MHz
 LIMIT : FCC15C §15.247(c) 3m, below 1GHz:QP, above 1GHz:AV
 Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEC]
----- Horizontal -----										
1	143.843	29.6	14.2	5.9	27.7	22.0	43.5	21.5	217	359
2	154.997	29.3	15.0	5.9	27.4	22.8	43.5	20.7	100	0
3	196.601	31.6	16.8	6.5	27.3	27.6	43.5	15.9	100	359
4	365.779	27.2	16.9	7.8	27.5	24.4	46.0	21.6	100	181
5	624.091	40.6	19.7	9.2	28.9	40.6	46.0	5.4	220	111
6	720.107	40.8	20.5	9.6	28.7	42.2	46.0	3.8	100	123
----- Vertical -----										
7	144.014	30.0	14.3	5.9	27.7	22.5	43.5	21.0	100	0
8	155.050	35.6	15.0	5.9	27.4	29.1	43.5	14.4	100	359
9	193.748	38.2	16.6	6.5	27.3	34.0	43.5	9.5	261	0
10	624.092	39.7	19.7	9.2	28.9	39.7	46.0	-6.3	100	181
11	774.923	30.6	21.4	9.9	28.6	33.3	46.0	12.7	128	359
12	852.424	29.4	21.4	10.2	28.6	32.4	46.0	13.6	100	0

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

Spurious Emission (Radiated:LAN-11g,Tx2412MHz(Worst)+Reciever,Tx2402) below 1GHz

DATA OF RADIATED EMISSION TEST

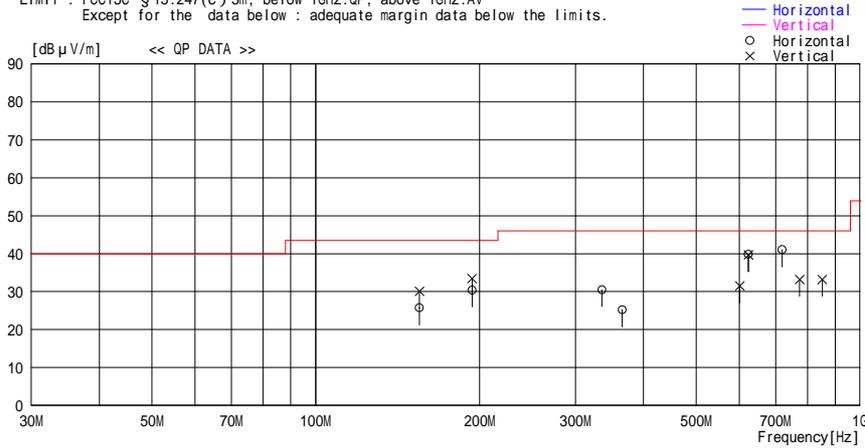
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2004/10/11 11:26:53

Applicant : Sony Corporation
 Kind of EUT : Personal Computer
 Model No. : PCV-E21L
 Serial No. : 16
 Report No. : 25BE0202-HO
 Power : AC120V/60Hz
 Temp./ Humi. : 26 deg.C. / 60 %
 Operator : Hiroka Umeyama

Mode / Remarks : Wireless LAN(11g) Tx:2412MHz, Wireless Receiver Tx:2402MHz, Mouse Tx:2402MHz, Keyboard Tx:2402MHz

LIMIT : FCC15C §15.247(c) 3m, below 1GHz:QP, above 1GHz:AV

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



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	154.994	32.2	15.0	5.9	27.4	25.7	43.5	17.8	100	0
2	193.748	34.6	16.6	6.5	27.3	30.4	43.5	13.1	100	359
3	336.047	35.0	15.7	7.3	27.5	30.5	46.0	15.5	100	306
4	365.960	28.0	16.9	7.6	27.5	25.2	46.0	20.8	100	171
5	624.090	39.8	19.7	9.2	28.9	39.8	46.0	6.2	244	112
6	720.105	39.6	20.5	9.6	28.7	41.0	46.0	5.0	100	123
----- Vertical -----										
7	155.051	36.6	15.0	5.9	27.4	30.1	43.5	13.4	100	0
8	193.750	37.6	16.7	6.5	27.4	33.4	43.5	10.1	243	359
9	601.345	31.9	19.5	8.9	28.8	31.5	46.0	14.5	100	192
10	624.081	39.7	19.7	9.2	28.9	39.7	46.0	6.3	100	183
11	774.847	30.5	21.4	9.9	28.6	33.2	46.0	12.8	119	0
12	852.414	30.2	21.4	10.2	28.6	33.2	46.0	12.8	221	359

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)

Spurious Emission (Radiated:LAN-11g,Tx2412MHz(Worst)+Reciever,Tx2440) below 1GHz

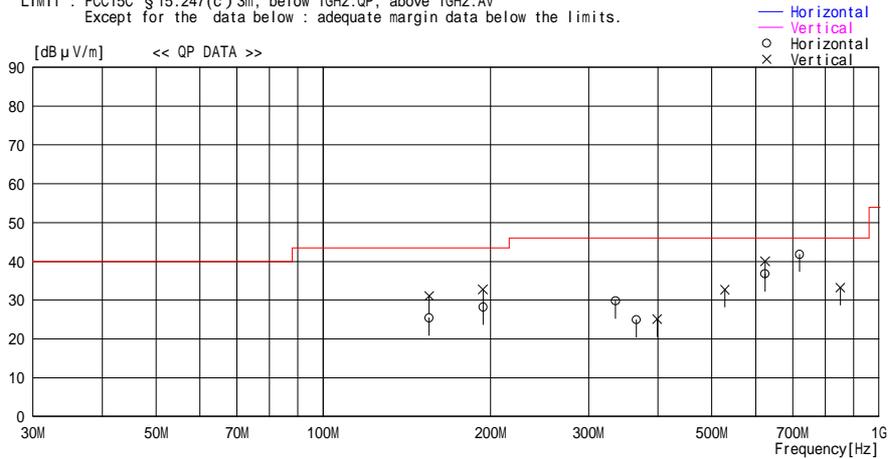
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2004/10/11 14:02:16

Applicant : Sony Corporation
 Kind of EUT : Personal Computer
 Model No. : PCV-E21L
 Serial No. : 16
 Report No. : 25BE0202-HO
 Power : AC120V/60Hz
 Temp./ Humi. : 26 deg.C. / 60 %
 Operator : Hiroka Umeyama

Mode / Remarks : Wireless LAN(11g) Tx:2412MHz, Wireless Receiver Tx:2440MHz, Mouse Tx:2445MHz, Keyboard Tx:2440MHz

LIMIT : FCC15C § 15.247(c) 3m, below 1GHz:QP, above 1GHz:AV
 Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	154.996	31.9	15.0	5.9	27.4	25.4	43.5	18.1	100	0
2	193.742	32.4	16.6	6.5	27.3	28.2	43.5	15.3	100	359
3	336.046	34.3	15.7	7.3	27.5	29.8	46.0	16.2	100	139
4	365.495	27.9	16.9	7.7	27.5	25.0	46.0	21.0	100	167
5	624.084	36.8	19.7	9.2	28.9	36.8	46.0	9.2	117	179
6	720.101	40.4	20.5	9.6	28.7	41.8	46.0	4.2	100	136
----- Vertical -----										
7	155.046	37.6	15.0	5.9	27.4	31.1	43.5	12.4	100	0
8	193.744	37.0	16.6	6.5	27.3	32.8	43.5	10.7	254	359
9	398.988	26.8	18.3	7.9	27.9	25.1	46.0	20.9	116	38
10	528.075	34.6	18.3	8.4	28.6	32.7	46.0	13.3	100	185
11	624.085	40.0	19.7	9.2	28.9	40.0	46.0	6.0	100	175
12	852.392	30.2	21.4	10.2	28.6	33.2	46.0	12.8	100	359

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)

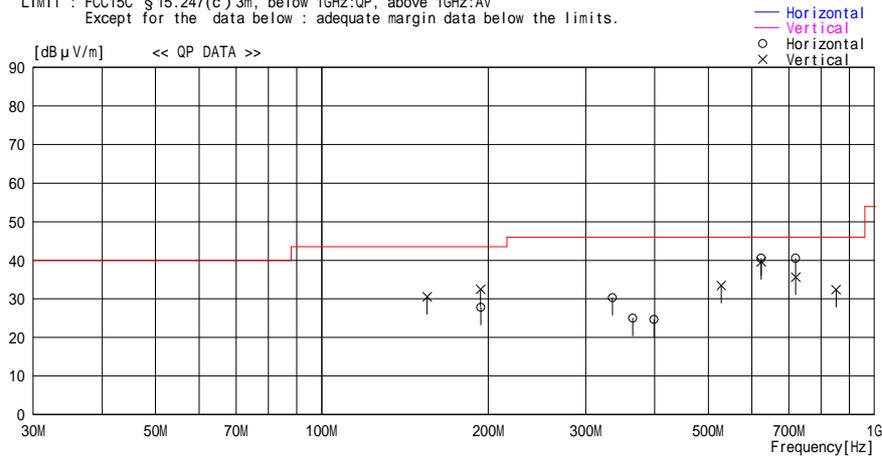
Spurious Emission (Radiated:LAN-11g,Tx2412MHz(Worst)+Reciever,Tx2479) below 1GHz

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2004/10/11 14:37:10

Applicant : Sony Corporation
 Kind of EUT : Personal Computer
 Model No. : PCV-E21L
 Serial No. : 16
 Report No. : 25BE0202-HO
 Power : AC120V/60Hz
 Temp./ Humi. : 26 deg.C. / 60 %
 Operator : Hiroka Umeyama

Mode / Remarks : Wireless LAN(11g) Tx:2412MHz, Wireless Receiver Tx:2479MHz, Mouse Tx:2479MHz, Keyboard Tx:2479MHz
 LIMIT : FCC15C § 15.247(c) 3m, below 1GHz:QP, above 1GHz:AV
 Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dB μV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dB μV/m]	LIMIT [dB μV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	193.746	32.0	16.6	6.5	27.3	27.8	43.5	15.7	100	359
2	336.046	34.8	15.7	7.3	27.5	30.3	46.0	15.7	160	77
3	365.268	27.9	16.9	7.7	27.5	25.0	46.0	21.0	100	194
4	399.494	26.3	18.3	7.9	27.9	24.6	46.0	21.4	209	195
5	624.088	40.5	19.7	9.2	28.9	40.5	46.0	5.5	247	108
6	720.104	39.1	20.5	9.6	28.7	40.5	46.0	5.5	100	134
----- Vertical -----										
7	155.041	37.0	15.0	5.9	27.4	30.5	43.5	13.0	100	359
8	193.732	36.7	16.6	6.5	27.3	32.5	43.5	11.0	220	0
9	528.071	35.3	18.3	8.4	28.6	33.4	46.0	12.6	100	177
10	624.087	39.6	19.7	9.2	28.9	39.6	46.0	6.4	100	179
11	720.102	34.2	20.5	9.6	28.7	35.6	46.0	10.4	206	233
12	852.480	29.4	21.4	10.2	28.6	32.4	46.0	13.6	209	359

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

Test report No. : 25BE0202-HO-1
Page : 57of 98
Issued date : October 20, 2004
Revised date : October 26, 2004
FCC ID : AK8PCVE21L

Spurious Emission (Radiated:LAN-11b,Tx2412MHz) above 1GHz

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company : Sony Corporation	REPORT NO : 25BE0202-HO
Equipment : Personal Computer	REGULATION : Fcc Part15 Subpart C 15.247(C)
Model : PCV-E21L	TEST DISTANCE : 3/m
Sample No. : 16	DATE : 9/29/2004, 10/11/2004 and 10/12/2004
Power : AC120V / 60Hz	TEMPERATURE : 26 deg.C, 25deg.C and 25deg.C
Mode : LAN-11b, 11Mbps, PN9, Tx2412MHz	HUMIDITY : 60% , 60% and 60%
	ENGINEER : Hiroka Umeyama

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	1194.5	57.2	50.8	23.0	36.9	4.4	0.0	47.7	41.3	74.0	26.3	32.7
2	2390.0	58.2	58.7	30.8	36.3	6.4	0.0	59.1	59.6	74.0	14.9	14.4
3	4824.0	45.5	45.8	35.4	36.1	9.3	1.0	55.1	55.4	74.0	18.9	18.6
4	7236.0	43.2	43.3	38.2	35.6	11.8	0.5	58.1	58.2	74.0	15.9	15.8
5	9648.0	43.2	43.7	37.5	36.3	13.9	0.5	58.8	59.3	74.0	15.2	14.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
6	12060.0	40.3	41.6	41.1	35.7	15.5	0.0	51.7	53.0	74.0	22.3	21.0
7	14472.0	39.7	39.6	41.0	34.6	16.6	0.0	53.2	53.1	74.0	20.8	20.9
8	16884.0	41.4	42.1	46.0	35.5	18.6	0.0	61.0	61.7	74.0	13.0	12.3
9	19296.0	42.2	40.2	39.6	34.9	20.4	0.0	57.8	55.8	74.0	16.2	18.2
10	21708.0	41.0	42.3	40.7	35.3	22.1	0.0	59.0	60.3	74.0	15.0	13.7
11	24120.0	40.4	40.7	40.0	36.0	22.6	0.0	57.5	57.8	74.0	16.5	16.2

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-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 + Band Pass												
1	1194.5	41.8	37.1	23.0	36.9	4.4	0.0	32.3	27.6	54.0	21.7	26.4
2	2390.0	48.0	47.9	30.8	36.3	6.4	0.0	48.9	48.8	54.0	5.1	5.2
3	4824.0	32.7	33.5	35.4	36.1	9.3	1.0	42.3	43.1	54.0	11.7	10.9
4	7236.0	30.4	30.6	38.2	35.6	11.8	0.5	45.3	45.5	54.0	8.7	8.5
5	9648.0	31.1	31.2	37.5	36.3	13.9	0.5	46.7	46.8	54.0	7.3	7.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
6	12060.0	29.4	29.4	41.1	35.7	15.5	0.0	40.8	40.8	54.0	13.2	13.2
7	14472.0	28.2	28.0	41.0	34.6	16.6	0.0	41.7	41.5	54.0	12.3	12.5
8	16884.0	30.6	30.6	46.0	35.5	18.6	0.0	50.2	50.2	54.0	3.8	3.8
9	19296.0	29.6	29.6	39.6	34.9	20.4	0.0	45.2	45.2	54.0	8.8	8.8
10	21708.0	30.7	30.7	40.7	35.3	22.1	0.0	48.7	48.7	54.0	5.3	5.3
11	24120.0	29.7	29.7	40.0	36.0	22.6	0.0	46.8	46.8	54.0	7.2	7.2

20dBc(Fundamental 2412MHz) (RBW: 100kHz , VBW:300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-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 + Band Pass												
1	2412.0	85.2	86.2	30.8	36.3	6.5	0.0	86.2	87.2	-	-	-
2	2400.0	64.0	64.5	30.8	36.3	6.5	0.0	65.0	65.5	Funda-20dB	1.2	1.7

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

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

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

UL Apex Co., Ltd.
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

MF060b(10.04.03)

Spurious Emission (Radiated:LAN-11b,Tx2437MHz) above 1GHz

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Personal Computer
Model : PCV-E21L
Sample No. : 16
Power : AC120V / 60Hz
Mode : LAN-11b, 11Mbps, PN9, Tx2437MHz

REPORT NO : 25BE0202-HO
REGULATION : Fcc Part15 Subpart C 15.247(C)
TEST DISTANCE : 3/1m
DATE : 9/29/2004, 10/11/2004 and 10/12/2004
TEMPERATURE : 26 deg.C, 25deg.C and 25deg.C
HUMIDITY : 60 % , 60% and 60%
ENGINEER : Hiroka Umeyama

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	1194.5	57.0	50.7	23.0	36.9	4.4	0.0	47.5	41.2	74.0	26.5	32.8
2	4874.0	43.5	43.7	35.7	36.1	9.5	1.0	53.6	53.8	74.0	20.4	20.2
3	7311.0	43.2	43.3	38.1	35.6	12.0	0.5	58.2	58.3	74.0	15.8	15.7
4	9748.0	43.2	43.7	37.3	36.3	14.0	0.5	58.7	59.2	74.0	15.3	14.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
5	12185.0	40.2	40.5	41.4	35.6	15.6	0.0	52.1	52.4	74.0	21.9	21.6
6	14622.0	39.8	39.2	41.5	34.8	16.8	0.0	53.8	53.2	74.0	20.2	20.8
7	17059.0	42.4	41.8	46.4	35.4	18.8	0.0	62.7	62.1	74.0	11.3	11.9
8	19496.0	41.0	40.4	39.2	34.9	20.6	0.0	56.4	55.8	74.0	17.6	18.2
9	21933.0	44.0	43.8	40.5	35.0	22.3	0.0	62.3	62.1	74.0	11.7	11.9
10	24370.0	39.8	40.9	40.1	36.6	22.7	0.0	56.5	57.6	74.0	17.5	16.4

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-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 + Band Pass												
1	1194.5	42.2	37.4	23.0	36.9	4.4	0.0	32.7	27.9	54.0	21.3	26.1
2	4874.0	31.4	31.1	35.7	36.1	9.5	1.0	41.5	41.2	54.0	12.5	12.8
3	7311.0	30.4	30.6	38.1	35.6	12.0	0.5	45.4	45.6	54.0	8.6	8.4
4	9748.0	31.1	31.2	37.3	36.3	14.0	0.5	46.6	46.7	54.0	7.4	7.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
5	12185.0	29.4	29.5	41.4	35.6	15.6	0.0	41.3	41.4	54.0	12.7	12.6
6	14622.0	28.1	28.2	41.5	34.8	16.8	0.0	42.1	42.2	54.0	11.9	11.8
7	17059.0	30.8	30.8	46.4	35.4	18.8	0.0	51.1	51.1	54.0	2.9	2.9
8	19496.0	29.0	29.0	39.2	34.9	20.6	0.0	44.4	44.4	54.0	9.6	9.6
9	21933.0	32.7	32.7	40.5	35.0	22.3	0.0	51.0	51.0	54.0	3.0	3.0
10	24370.0	29.0	29.0	40.1	36.6	22.7	0.0	45.7	45.7	54.0	8.3	8.3

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

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

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

Test report No. : 25BE0202-HO-1
Page : 59of 98
Issued date : October 20, 2004
Revised date : October 26, 2004
FCC ID : AK8PCVE21L

Spurious Emission (Radiated:LAN-11b,Tx2462MHz) above 1GHz

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Personal Computer
Model : PCV-E21L
Sample No. : 16
Power : AC120V / 60Hz
Mode : LAN-11b, 11Mbps, PN9, Tx2462MHz

REPORT NO : 25BE00202-HO
REGULATION : Fcc Part15 Subpart C 15.247(C)
TEST DISTANCE : 3/1m
DATE : 9/29/2004, 10/11/2004 and 10/12/2004
TEMPERATURE : 26 deg.C, 25deg.C and 25deg.C
HUMIDITY : 60 % , 60% and 60%
ENGINEER : Hiroka Umeyama

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	1194.5	57.8	51.8	23.0	36.9	4.4	0.0	48.3	42.3	74.0	25.7	31.7
2	2483.5	58.9	58.5	31.0	36.2	6.5	0.0	60.2	59.8	74.0	13.8	14.2
3	4924.0	45.0	45.6	35.9	36.1	9.5	1.0	55.3	55.9	74.0	18.7	18.1
4	7386.0	43.2	43.3	38.3	35.7	12.0	0.5	58.3	58.4	74.0	15.7	15.6
5	9848.0	43.2	43.7	37.1	36.3	14.0	0.5	58.5	59.0	74.0	15.5	15.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
6	12310.0	41.5	41.4	41.7	35.6	15.6	0.0	53.7	53.6	74.0	20.3	20.4
7	14772.0	40.6	41.1	42.1	34.9	16.9	0.0	55.2	55.7	74.0	18.8	18.3
8	17234.0	42.4	42.4	46.7	35.3	18.9	0.0	63.2	63.2	74.0	10.8	10.8
9	19696.0	42.4	40.3	39.6	35.2	20.7	0.0	58.0	55.9	74.0	16.0	18.1
10	22158.0	42.3	43.7	40.6	35.0	22.3	0.0	60.7	62.1	74.0	13.3	11.9
11	24620.0	40.7	41.0	40.2	36.8	22.9	0.0	57.5	57.8	74.0	16.5	16.2

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-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 + Band Pass												
1	1194.5	41.2	37.1	23.0	36.9	4.4	0.0	31.7	27.6	54.0	22.3	26.4
2	2483.5	47.7	47.5	31.0	36.2	6.5	0.0	49.0	48.8	54.0	5.0	5.2
3	4924.0	32.4	33.1	35.9	36.1	9.5	1.0	42.7	43.4	54.0	11.3	10.6
4	7386.0	30.4	30.6	38.3	35.7	12.0	0.5	45.5	45.7	54.0	8.5	8.3
5	9848.0	31.1	31.2	37.1	36.3	14.0	0.5	46.4	46.5	54.0	7.6	7.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
6	12310.0	29.7	29.6	41.7	35.6	15.6	0.0	41.9	41.8	54.0	12.1	12.2
7	14772.0	29.1	29.1	42.1	34.9	16.9	0.0	43.7	43.7	54.0	10.3	10.3
8	17234.0	31.0	31.1	46.7	35.3	18.9	0.0	51.8	51.9	54.0	2.2	2.1
9	19696.0	29.0	29.0	39.6	35.2	20.7	0.0	44.6	44.6	54.0	9.4	9.4
10	22158.0	31.0	31.0	40.6	35.0	22.3	0.0	49.4	49.4	54.0	4.6	4.6
11	24620.0	29.5	29.5	40.2	36.8	22.9	0.0	46.3	46.3	54.0	7.7	7.7

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

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

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

UL Apex Co., Ltd.
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

MF060b(10.04.03)

Spurious Emission (Radiated:LAN-11g,Tx2412MHz) above 1GHz

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company	: Sony Corporation	REPORT NO	: 25BE00202-HO
Equipment	: Personal Computer	REGULATION	: Fcc Part15 Subpart C 15.247(C)
Model	: PCV-E21L	TEST DISTANCE	: 3/1m
Sample No.	: 16	DATE	: 9/29/2004, 10/11/2004 and 10/12/2004
Power	: AC120V / 60Hz	TEMPERATURE	: 26 deg.C, 25deg.C and 25deg.C
Mode	: LAN-11g, 54Mbps, PN9, Tx2412MHz	HUMIDITY	: 60 % , 60% and 60%
		ENGINEER	: Hiroka Umeyama

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	1194.5	56.5	51.6	23.0	36.9	4.4	0.0	47.0	42.1	74.0	27.0	31.9
2	2390.0	55.1	52.8	30.8	36.3	6.4	0.0	56.0	53.7	74.0	18.0	20.3
3	4824.0	43.8	43.4	35.4	36.1	9.3	1.0	53.4	53.0	74.0	20.6	21.0
4	7236.0	41.7	42.1	38.2	35.6	11.8	0.5	56.6	57.0	74.0	17.4	17.0
5	9648.0	42.3	43.4	37.5	36.3	13.9	0.5	57.9	59.0	74.0	16.1	15.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
6	12060.0	40.7	41.4	41.1	35.7	15.5	0.0	52.1	52.8	74.0	21.9	21.2
7	14472.0	39.2	40.3	41.0	34.6	16.6	0.0	52.7	53.8	74.0	21.3	20.2
8	16884.0	41.7	42.3	46.0	35.5	18.6	0.0	61.3	61.9	74.0	12.7	12.1
9	19296.0	41.8	41.3	39.6	34.9	20.4	0.0	57.4	56.9	74.0	16.6	17.1
10	21708.0	41.8	42.3	40.7	35.3	22.1	0.0	59.8	60.3	74.0	14.2	13.7
11	24120.0	40.7	40.8	40.0	36.0	22.6	0.0	57.8	57.9	74.0	16.2	16.1

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-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 + Band Pass												
1	1194.5	41.5	37.0	23.0	36.9	4.4	0.0	32.0	27.5	54.0	22.0	26.5
2	2390.0	37.6	38.0	30.8	36.3	6.4	0.0	38.5	38.9	54.0	15.5	15.1
3	4824.0	31.4	31.3	35.4	36.1	9.3	1.0	41.0	40.9	54.0	13.0	13.1
4	7236.0	30.4	30.4	38.2	35.6	11.8	0.5	45.3	45.3	54.0	8.7	8.7
5	9648.0	31.1	31.1	37.5	36.3	13.9	0.5	46.7	46.7	54.0	7.3	7.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
6	12060.0	29.5	29.6	41.1	35.7	15.5	0.0	40.9	41.0	54.0	13.1	13.0
7	14472.0	28.3	28.2	41.0	34.6	16.6	0.0	41.8	41.7	54.0	12.2	12.3
8	16884.0	32.1	32.0	46.0	35.5	18.6	0.0	51.7	51.6	54.0	2.3	2.4
9	19296.0	29.6	29.6	39.6	34.9	20.4	0.0	45.2	45.2	54.0	8.8	8.8
10	21708.0	30.8	30.9	40.7	35.3	22.1	0.0	48.8	48.9	54.0	5.2	5.1
11	24120.0	29.6	29.7	40.0	36.0	22.6	0.0	46.7	46.8	54.0	7.3	7.2

20dBc(Fundamental 2412MHz) (RBW: 100kHz , VBW:300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-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 + Band Pass												
1	2412.0	80.1	80.3	30.8	36.3	6.5	0.0	81.1	81.3	-	-	-
2	2400.0	55.4	54.9	30.8	36.3	6.5	0.0	56.4	55.9	Funda-20dB	4.7	5.4

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.

Spurious Emission (Radiated:LAN-11g,Tx2437MHz) above 1GHz

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Personal Computer
Model : PCV-E21L
Sample No. : 16
Power : AC120V / 60Hz
Mode : LAN-11g, 54Mbps, PN9, Tx2437MHz

REPORT NO : 25BE0202-HO
REGULATION : Fcc Part15 Subpart C 15.247(C)
TEST DISTANCE : 3/1m
DATE : 9/29/2004, 10/11/2004 and 10/12/2004
TEMPERATURE : 26 deg.C, 25deg.C and 25deg.C
HUMIDITY : 60 % , 60% and 60%
ENGINEER : Hiroka Umeyama

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	1194.5	57.2	50.5	23.0	36.9	4.4	0.0	47.7	41.0	74.0	26.3	33.0
2	4874.0	44.5	44.2	35.7	36.1	9.5	1.0	54.6	54.3	74.0	19.4	19.7
3	7311.0	42.6	42.6	38.1	35.6	12.0	0.5	57.6	57.6	74.0	16.4	16.4
4	9748.0	44.3	43.7	37.3	36.3	14.0	0.5	59.8	59.2	74.0	14.2	14.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
5	12185.0	41.3	41.1	41.4	35.6	15.6	0.0	53.2	53.0	74.0	20.8	21.0
6	14622.0	39.8	40.2	41.5	34.8	16.8	0.0	53.8	54.2	74.0	20.2	19.8
7	17059.0	42.6	42.1	46.4	35.4	18.8	0.0	62.9	62.4	74.0	11.1	11.6
8	19496.0	41.2	40.1	39.2	34.9	20.6	0.0	56.6	55.5	74.0	17.4	18.5
9	21933.0	43.7	43.8	40.5	35.0	22.3	0.0	62.0	62.1	74.0	12.0	11.9
10	24370.0	40.3	40.7	40.1	36.6	22.7	0.0	57.0	57.4	74.0	17.0	16.6

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	1194.5	42.1	36.2	23.0	36.9	4.4	0.0	32.6	26.7	54.0	21.4	27.3
2	4874.0	31.0	31.1	35.7	36.1	9.5	1.0	41.1	41.2	54.0	12.9	12.8
3	7311.0	30.4	30.3	38.1	35.6	12.0	0.5	45.4	45.3	54.0	8.6	8.7
4	9748.0	30.9	30.9	37.3	36.3	14.0	0.5	46.4	46.4	54.0	7.6	7.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
5	12185.0	29.4	29.4	41.4	35.6	15.6	0.0	41.3	41.3	54.0	12.7	12.7
6	14622.0	28.0	28.0	41.5	34.8	16.8	0.0	42.0	42.0	54.0	12.0	12.0
7	17059.0	30.8	30.8	46.4	35.4	18.8	0.0	51.1	51.1	54.0	2.9	2.9
8	19496.0	29.1	29.0	39.2	34.9	20.6	0.0	44.5	44.4	54.0	9.5	9.6
9	21933.0	32.7	32.7	40.5	35.0	22.3	0.0	51.0	51.0	54.0	3.0	3.0
10	24370.0	29.0	29.0	40.1	36.6	22.7	0.0	45.7	45.7	54.0	8.3	8.3

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

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

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

Spurious Emission (Radiated:LAN-11g,Tx2462MHz) above 1GHz

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Personal Computer
Model : PCV-E21L
Sample No. : 16
Power : AC120V / 60Hz
Mode : LAN-11g, 54Mbps, PN9, Tx2462MHz

REPORT NO : 25BE00202-HO
REGULATION : Fcc Part15 Subpart C 15.247(C)
TEST DISTANCE : 3/1m
DATE : 9/29/2004, 10/11/2004 and 10/12/2004
TEMPERATURE : 26 deg.C, 25deg.C and 25deg.C
HUMIDITY : 60 % , 60% and 60%
ENGINEER : Hiroka Umeyama

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER [dBuV/m]					HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	1194.5	56.8	50.5	23.0	36.9	4.4	0.0	47.3	41.0	74.0	26.7	33.0
2	2483.5	61.9	60.5	31.0	36.2	6.5	0.0	63.2	61.8	74.0	10.8	12.2
3	4924.0	42.7	42.5	35.9	36.1	9.5	1.0	53.0	52.8	74.0	21.0	21.2
4	7386.0	42.3	42.5	38.3	35.7	12.0	0.5	57.4	57.6	74.0	16.6	16.4
5	9848.0	43.3	43.2	37.1	36.3	14.0	0.5	58.6	58.5	74.0	15.4	15.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
6	12310.0	40.6	41.2	41.7	35.6	15.6	0.0	52.8	53.4	74.0	21.2	20.6
7	14772.0	39.3	39.8	42.1	34.9	16.9	0.0	53.9	54.4	74.0	20.1	19.6
8	17234.0	43.0	41.8	46.7	35.3	18.9	0.0	63.8	62.6	74.0	10.2	11.4
9	19696.0	39.4	41.6	39.6	35.2	20.7	0.0	55.0	57.2	74.0	19.0	16.8
10	22158.0	41.4	42.0	40.6	35.0	22.3	0.0	59.8	60.4	74.0	14.2	13.6
11	24620.0	40.1	40.0	40.2	36.8	22.9	0.0	56.9	56.8	74.0	17.1	17.2

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER [dBuV/m]					HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	1194.5	42.2	37.0	23.0	36.9	4.4	0.0	32.7	27.5	54.0	21.3	26.5
2	2483.5	43.6	43.9	31.0	36.2	6.5	0.0	44.9	45.2	54.0	9.1	8.8
3	4924.0	30.9	30.9	35.9	36.1	9.5	1.0	41.2	41.2	54.0	12.8	12.8
4	7386.0	30.4	30.5	38.3	35.7	12.0	0.5	45.5	45.6	54.0	8.5	8.4
5	9848.0	31.1	31.2	37.1	36.3	14.0	0.5	46.4	46.5	54.0	7.6	7.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
6	12310.0	29.2	29.3	41.7	35.6	15.6	0.0	41.4	41.5	54.0	12.6	12.5
7	14772.0	28.7	28.7	42.1	34.9	16.9	0.0	43.3	43.3	54.0	10.7	10.7
8	17234.0	30.7	30.8	46.7	35.3	18.9	0.0	51.5	51.6	54.0	2.5	2.4
9	19696.0	29.0	29.0	39.6	35.2	20.7	0.0	44.6	44.6	54.0	9.4	9.4
10	22158.0	30.7	30.1	40.6	35.0	22.3	0.0	49.1	48.5	54.0	4.9	5.5
11	24620.0	29.5	29.5	40.2	36.8	22.9	0.0	46.3	46.3	54.0	7.7	7.7

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

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

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

Spurious Emission (Reciever,Tx2402) above 1GHz

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Personal Computer
Model : PCV-E21L
Sample No. : 16
Power : AC120V / 60Hz
Mode : Receiver, Tx2402MHz

REPORT NO : 25BE00202-HO
REGULATION : Fcc Part15 Subpart C 15.247(C)
TEST DISTANCE : 3/1m
DATE : 9/29/2004, 10/11/2004 and 10/12/2004
TEMPERATURE : 26 deg.C, 25deg.C and 25deg.C
HUMIDITY : 60 % , 60% and 60%
ENGINEER : Hiroka Umeyama

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER					HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	1194.5	54.8	51.3	23.0	36.9	4.4	0.0	45.3	41.8	74.0	28.7	32.2
2	2390.0	45.1	42.9	30.8	36.3	6.4	0.0	46.0	43.8	74.0	28.0	30.2
3	4804.0	43.8	43.2	35.3	36.1	9.3	1.0	53.3	52.7	74.0	20.7	21.3
4	7206.0	44.9	43.1	37.9	35.6	11.8	0.5	59.5	57.7	74.0	14.5	16.3
5	9608.0	42.6	42.9	37.6	36.3	13.9	0.5	58.3	58.6	74.0	15.7	15.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
6	12010.0	41.1	41.0	41.0	35.7	15.5	0.0	52.4	52.3	74.0	21.6	21.7
7	14412.0	40.4	39.6	41.1	34.6	16.6	0.0	54.0	53.2	74.0	20.0	20.8
8	16814.0	42.3	42.4	45.9	35.6	18.6	0.0	61.7	61.8	74.0	12.3	12.2
9	19216.0	39.1	39.4	39.7	34.9	20.3	0.0	54.7	55.0	74.0	19.3	19.0
10	21618.0	40.1	40.3	40.8	35.4	22.1	0.0	58.1	58.3	74.0	15.9	15.7
11	24020.0	37.8	38.6	39.9	35.8	22.6	0.0	55.0	55.8	74.0	19.0	18.2

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER					HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	1194.5	40.0	36.6	23.0	36.9	4.4	0.0	30.5	27.1	54.0	23.5	26.9
2	2390.0	34.7	33.0	30.8	36.3	6.4	0.0	35.6	33.9	54.0	18.4	20.1
3	4804.0	31.4	31.6	35.3	36.1	9.3	1.0	40.9	41.1	54.0	13.1	12.9
4	7206.0	32.4	30.4	37.9	35.6	11.8	0.5	47.0	45.0	54.0	7.0	9.0
5	9608.0	31.0	30.9	37.6	36.3	13.9	0.5	46.7	46.6	54.0	7.3	7.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
6	12010.0	29.3	29.2	41.0	35.7	15.5	0.0	40.6	40.5	54.0	13.4	13.5
7	14412.0	28.1	28.1	41.1	34.6	16.6	0.0	41.7	41.7	54.0	12.3	12.3
8	16814.0	30.6	30.6	45.9	35.6	18.6	0.0	50.0	50.0	54.0	4.0	4.0
9	19216.0	29.9	29.9	39.7	34.9	20.3	0.0	45.5	45.5	54.0	8.5	8.5
10	21618.0	30.3	30.3	40.8	35.4	22.1	0.0	48.3	48.3	54.0	5.7	5.7
11	24020.0	29.1	29.1	39.9	35.8	22.6	0.0	46.3	46.3	54.0	7.7	7.7

20dBc(Fundamental 2402MHz) (RBW: 100kHz , VBW:300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER					HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	2402.0	101.7	98.2	30.8	36.3	6.5	0.0	102.7	99.2	-	-	-
2	2400.0	53.8	47.4	30.8	36.3	6.5	0.0	54.8	48.4	Funda-20dB	27.9	30.8

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

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

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

UL Apex Co., Ltd.

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

MF060b(10.04.03)

Spurious Emission (Reciever,Tx2440) above 1GHz

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Personal Computer
Model : PCV-E21L
Sample No. : 16
Power : AC120V / 60Hz
Mode : Receiver, Tx2440MHz

REPORT NO : 25BE00202-HO
REGULATION : Fcc Part15 Subpart C 15.247(C)
TEST DISTANCE : 3/1m
DATE : 9/29/2004, 10/11/2004 and 10/12/2004
TEMPERATURE : 26 deg.C, 25deg.C and 25deg.C
HUMIDITY : 60 % , 60% and 60%
ENGINEER : Hiroka Umeyama

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER					HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	1194.5	56.2	51.2	20.3	36.9	4.4	0.0	44.0	39.0	74.0	30.0	35.0
2	4880.0	43.7	43.7	35.7	36.1	9.5	1.0	53.8	53.8	74.0	20.2	20.2
3	7320.0	44.0	43.2	38.2	35.7	12.0	0.5	59.0	58.2	74.0	15.0	15.8
4	9760.0	43.4	43.4	37.3	36.3	14.0	0.5	58.9	58.9	74.0	15.1	15.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
5	12200.0	40.7	40.2	41.4	35.6	15.6	0.0	52.6	52.1	74.0	21.4	21.9
6	14640.0	39.0	38.4	41.6	34.8	16.8	0.0	53.1	52.5	74.0	20.9	21.5
7	17080.0	42.1	42.0	46.4	35.4	18.8	0.0	62.4	62.3	74.0	11.6	11.7
8	19520.0	42.7	41.5	39.2	35.0	20.6	0.0	58.0	56.8	74.0	16.0	17.2
9	21960.0	44.6	44.1	40.4	35.0	22.3	0.0	62.8	62.3	74.0	11.2	11.7
10	24400.0	41.5	41.8	40.1	36.6	22.7	0.0	58.2	58.5	74.0	15.8	15.5

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER					HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	1194.5	41.2	37.2	20.3	36.9	4.4	0.0	29.0	25.0	54.0	25.0	29.0
2	4880.0	31.1	31.1	35.7	36.1	9.5	1.0	41.2	41.2	54.0	12.8	12.8
3	7320.0	31.0	30.2	38.2	35.7	12.0	0.5	46.0	45.2	54.0	8.0	8.8
4	9760.0	31.0	31.1	37.3	36.3	14.0	0.5	46.5	46.6	54.0	7.5	7.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
5	12200.0	29.3	29.2	41.4	35.6	15.6	0.0	41.2	41.1	54.0	12.8	12.9
6	14640.0	28.0	28.0	41.6	34.8	16.8	0.0	42.1	42.1	54.0	11.9	11.9
7	17080.0	30.8	30.8	46.4	35.4	18.8	0.0	51.1	51.1	54.0	2.9	2.9
8	19520.0	28.9	29.0	39.2	35.0	20.6	0.0	44.2	44.3	54.0	9.8	9.7
9	21960.0	31.9	31.9	40.4	35.0	22.3	0.0	50.1	50.1	54.0	3.9	3.9
10	24400.0	29.1	29.1	40.1	36.6	22.7	0.0	45.8	45.8	54.0	8.2	8.2

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

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

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

Test report No. : 25BE0202-HO-1
Page : 65of 98
Issued date : October 20, 2004
Revised date : October 26, 2004
FCC ID : AK8PCVE21L

Spurious Emission (Receiver, Tx2479) above 1GHz

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Personal Computer
Model : PCV-E21L
Sample No. : 16
Power : AC120V / 60Hz
Mode : Receiver, Tx2479MHz

REPORT NO : 25BE00202-HO
REGULATION : Fcc Part15 Subpart C 15.247(C)
TEST DISTANCE : 3/1m
DATE : 9/29/2004, 10/11/2004 and 10/12/2004
TEMPERATURE : 26 deg.C, 25deg.C and 25deg.C
HUMIDITY : 60% , 60% and 60%
ENGINEER : Hiroka Umeyama

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	1194.5	54.7	50.9	23.0	36.9	4.4	0.0	45.2	41.4	74.0	28.8	32.6
2	2483.5	55.3	52.3	31.0	36.2	6.5	1.0	57.6	54.6	74.0	16.4	19.4
3	4958.0	43.7	43.5	36.1	36.1	9.5	1.0	54.2	54.0	74.0	19.8	20.0
4	7437.0	43.4	42.9	38.4	35.7	12.0	0.5	58.6	58.1	74.0	15.4	15.9
5	9916.0	43.6	43.9	37.0	36.3	14.1	0.5	58.9	59.2	74.0	15.1	14.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
6	12395.0	40.7	41.4	41.9	35.5	15.7	0.0	53.3	54.0	74.0	20.7	20.0
7	14874.0	40.4	41.3	42.6	35.0	17.1	0.0	55.6	56.5	74.0	18.4	17.5
8	17353.0	42.0	42.6	46.9	35.2	19.0	0.0	63.2	63.8	74.0	10.8	10.2
9	19832.0	41.5	40.4	39.9	35.3	20.8	0.0	57.4	56.3	74.0	16.6	17.7
10	22311.0	44.5	45.0	40.7	35.1	22.4	0.0	63.0	63.5	74.0	11.0	10.5
11	24790.0	42.0	41.6	40.2	36.7	22.9	0.0	58.9	58.5	74.0	15.1	15.5

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-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 + Band Pass												
1	1194.5	40.9	37.5	23.0	36.9	4.4	0.0	31.4	28.0	54.0	22.6	26.0
2	2483.5	47.7	47.0	31.0	36.2	6.5	1.0	50.0	49.3	54.0	4.0	4.7
3	4958.0	31.3	31.0	36.1	36.1	9.5	1.0	41.8	41.5	54.0	12.2	12.5
4	7437.0	31.5	30.4	38.4	35.7	12.0	0.5	46.7	45.6	54.0	7.3	8.4
5	9916.0	31.6	31.6	37.0	36.3	14.1	0.5	46.9	46.9	54.0	7.1	7.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
6	12395.0	29.3	29.4	41.9	35.5	15.7	0.0	41.9	42.0	54.0	12.1	12.0
7	14874.0	28.7	28.7	42.6	35.0	17.1	0.0	43.9	43.9	54.0	10.1	10.1
8	17353.0	30.4	30.4	46.9	35.2	19.0	0.0	51.6	51.6	54.0	2.4	2.4
9	19832.0	28.6	28.6	39.9	35.3	20.8	0.0	44.5	44.5	54.0	9.5	9.5
10	22311.0	31.6	31.7	40.7	35.1	22.4	0.0	50.1	50.2	54.0	3.9	3.8
11	24790.0	29.5	29.4	40.2	36.7	22.9	0.0	46.4	46.3	54.0	7.6	7.7

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

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

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

UL Apex Co., Ltd.
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

MF060b(10.04.03)

Spurious Emission (Radiated:LAN-11b,Tx2412MHz(Worst)+Reciever,Tx2402) above 1GHz

Company : Sony Corporation
Equipment : Personal Computer
Model : PCV-E21L
Sample No. : 16
Power : AC120V / 60Hz
Mode : LAN-11b, 11Mbps, PN9, Tx2412MHz(Worst)
+ Receiver, Tx2402MHz
+ Keyboard and Mouse, Tx2402MHz

UL Apex Co., Ltd.
Head Office EMC Lab. No.1 Semi Anechoic Chamber
Head Office EMC Lab. No.2 Semi Anechoic Chamber (above 10GHz)
REPORT NO : 25BE00202-HO
REGULATION : Fcc Part15 Subpart C 15.247(C)
TEST DISTANCE : 3/1m
DATE : 10/01/2004, 10/11/2004 and 10/12/2004
TEMPERATURE : 24 deg.C, 25deg.C and 25deg.C
HUMIDITY : 58 % , 60% and 60%
ENGINEER : Hiroka Umeyama

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
0	1194.5	45.2	46.7	23.0	36.9	3.8	0.0	35.1	36.6	74.0	38.9	37.4
1	2390.0	55.8	58.2	30.7	36.3	5.6	0.0	55.8	58.2	74.0	18.2	15.8
2	4804.0	49.6	46.1	35.1	36.1	8.0	1.0	57.6	54.1	74.0	16.4	19.9
3	4824.0	44.2	44.0	35.2	36.1	8.0	1.0	52.3	52.1	74.0	21.7	21.9
4	7206.0	44.0	45.2	37.6	35.6	10.1	0.5	56.6	57.8	74.0	17.4	16.2
5	7236.0	44.1	44.3	37.7	35.6	10.1	0.5	56.8	57.0	74.0	17.2	17.0
6	9608.0	44.7	44.4	37.1	36.3	11.9	0.5	57.9	57.6	74.0	16.1	16.4
7	9648.0	43.7	44.5	37.1	36.3	11.9	0.5	56.9	57.7	74.0	17.1	16.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
8	12010.0	40.4	40.1	41.0	35.7	15.5	0.0	51.7	51.4	74.0	22.3	22.6
9	12060.0	40.6	41.0	41.1	35.7	15.5	0.0	52.0	52.4	74.0	22.0	21.6
10	14412.0	39.8	39.4	41.1	34.6	16.6	0.0	53.4	53.0	74.0	20.6	21.0
11	14472.0	38.9	39.5	41.0	34.6	16.6	0.0	52.4	53.0	74.0	21.6	21.0
12	16814.0	42.8	41.9	45.9	35.6	18.6	0.0	62.2	61.3	74.0	11.8	12.7
13	16884.0	42.1	42.0	46.0	35.5	18.6	0.0	61.7	61.6	74.0	12.3	12.4
14	19216.0	42.4	42.3	39.7	34.9	20.3	0.0	58.0	57.9	74.0	16.0	16.1
15	19296.0	43.3	41.8	39.6	34.9	20.4	0.0	58.9	57.4	74.0	15.1	16.6
16	21618.0	43.2	42.3	40.8	35.4	22.1	0.0	61.2	60.3	74.0	12.8	13.7
17	21708.0	42.8	44.0	40.7	35.3	22.1	0.0	60.8	62.0	74.0	13.2	12.0
18	24020.0	42.0	41.2	39.9	35.8	22.6	0.0	59.2	58.4	74.0	14.8	15.6
19	24120.0	42.0	42.2	40.0	36.0	22.6	0.0	59.1	59.3	74.0	14.9	14.7

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-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 + Band Pass												
0	1194.5	32.3	32.6	23.0	36.9	3.8	0.0	22.2	22.5	54.0	31.8	31.5
1	2390.0	43.3	47.2	30.7	36.3	5.6	0.0	43.3	47.2	54.0	10.7	6.8
2	4804.0	32.1	30.9	35.1	36.1	8.0	1.0	40.1	38.9	54.0	13.9	15.1
3	4824.0	30.4	30.7	35.2	36.1	8.0	1.0	38.5	38.8	54.0	15.5	15.2
4	7206.0	31.0	30.8	37.6	35.6	10.1	0.5	43.6	43.4	54.0	10.4	10.6
5	7236.0	30.9	30.9	37.7	35.6	10.1	0.5	43.6	43.6	54.0	10.4	10.4
6	9608.0	31.1	31.4	37.1	36.3	11.9	0.5	44.3	44.6	54.0	9.7	9.4
7	9648.0	31.1	31.2	37.1	36.3	11.9	0.5	44.3	44.4	54.0	9.7	9.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
8	12010.0	29.2	29.1	41.0	35.7	15.5	0.0	40.5	40.4	54.0	13.5	13.6
9	12060.0	29.4	29.3	41.1	35.7	15.5	0.0	40.8	40.7	54.0	13.2	13.3
10	14412.0	28.0	28.0	41.1	34.6	16.6	0.0	41.6	41.6	54.0	12.4	12.4
11	14472.0	28.1	28.0	41.0	34.6	16.6	0.0	41.6	41.5	54.0	12.4	12.5
12	16814.0	30.4	30.4	45.9	35.6	18.6	0.0	49.8	49.8	54.0	4.2	4.2
13	16884.0	30.4	30.4	46.0	35.5	18.6	0.0	50.0	50.0	54.0	4.0	4.0
14	19216.0	30.0	29.9	39.7	34.9	20.3	0.0	45.6	45.5	54.0	8.4	8.5
15	19296.0	29.6	31.7	39.6	34.9	20.4	0.0	45.2	47.3	54.0	8.8	6.7
16	21618.0	30.3	30.3	40.8	35.4	22.1	0.0	48.3	48.3	54.0	5.7	5.7
17	21708.0	30.8	30.8	40.7	35.3	22.1	0.0	48.8	48.8	54.0	5.2	5.2
18	24020.0	29.1	29.1	39.9	35.8	22.6	0.0	46.3	46.3	54.0	7.7	7.7
19	24120.0	29.7	29.7	40.0	36.0	22.6	0.0	46.8	46.8	54.0	7.2	7.2

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.

20dBc(Fundamental 2412MHz) (RBW: 100kHz, VBW:300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-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 + Band Pass												
1	2412.0	85.2	86.2	30.8	36.3	6.5	0.0	86.2	87.2	-	-	-
2	2400.0	60.3	60.1	30.8	36.3	6.5	0.0	61.3	61.1	Funda-20dB	4.9	6.1

Spurious Emission (Radiated:LAN-11b,Tx2412MHz(Worst)+Reciever,Tx2440) above 1GHz

UL Apex Co., Ltd.
Head Office EMC Lab. No.1 Semi Anechoic Chamber
Head Office EMC Lab. No.2 Semi Anechoic Chamber (above 10GHz)

Company : Sony Corporation
Equipment : Personal Computer
Model : PCV-E21L
Sample No. : 16
Power : AC120V / 60Hz
Mode : LAN-11b, 11Mbps, P/N9, Tx2412MHz(Worst)
+ Receiver Tx2440MHz
+ Keyboard Tx2440MHz and Mouse Tx2445MHz

REPORT NO : 25BE00202-HO
REGULATION : Fcc Part15 Subpart C 15.247(C)
TEST DISTANCE : 3/1m
DATE : 10/01/2004, 10/11/2004 and 10/12/2004
TEMPERATURE : 24 deg.C, 25deg.C and 25deg.C
HUMIDITY : 58 % , 60% and 60%
ENGINEER : Hiroka Umeyama

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
0	1192.4	45.4	46.8	23.0	36.9	3.8	0.0	35.3	36.7	74.0	38.7	37.3
1	2390.0	55.4	58.1	30.7	36.3	5.6	0.0	55.4	58.1	74.0	18.6	15.9
2	4824.0	45.7	44.0	35.2	36.1	8.0	1.0	53.8	52.1	74.0	20.2	21.9
3	4880.0	44.4	43.3	35.4	36.1	8.0	1.0	52.7	51.6	74.0	21.3	22.4
4	4890.0	47.1	50.7	35.5	36.1	8.0	1.0	55.5	59.1	74.0	18.5	14.9
5	7236.0	43.6	44.1	37.7	35.6	10.1	0.5	56.3	56.8	74.0	17.7	17.2
6	7320.0	44.5	43.6	37.9	35.7	10.2	0.5	57.4	56.5	74.0	16.6	17.5
7	7335.0	44.3	44.5	38.0	35.7	10.2	0.5	57.3	57.5	74.0	16.7	16.5
8	9648.0	43.9	44.2	37.1	36.3	11.9	0.5	57.1	57.4	74.0	16.9	16.6
9	9760.0	44.0	43.5	37.0	36.3	12.0	0.5	57.2	56.7	74.0	16.8	17.3
10	9780.0	44.4	44.4	37.0	36.3	12.0	0.5	57.6	57.6	74.0	16.4	16.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
11	12200.0	40.8	40.7	41.4	35.6	15.6	0.0	52.7	52.6	74.0	21.3	21.4
12	12060.0	40.6	41.0	41.1	35.7	15.5	0.0	52.0	52.4	74.0	22.0	21.6
13	14640.0	38.7	39.3	41.6	34.8	16.8	0.0	52.8	53.4	74.0	21.2	20.6
14	14472.0	38.9	38.5	41.0	34.6	16.6	0.0	52.4	52.0	74.0	21.6	22.0
15	16884.0	42.1	42.2	45.9	35.6	18.6	0.0	61.5	61.6	74.0	12.5	12.4
16	17080.0	42.3	42.4	46.4	35.4	18.8	0.0	62.6	62.7	74.0	11.4	11.3
17	19520.0	41.2	41.7	39.2	35.0	20.6	0.0	56.5	57.0	74.0	17.5	17.0
18	19296.0	42.4	42.1	39.6	34.9	20.4	0.0	58.0	57.7	74.0	16.0	16.3
19	21960.0	44.1	43.8	40.4	35.0	22.3	0.0	62.3	62.0	74.0	11.7	12.0
20	21708.0	43.6	43.5	40.7	35.3	22.1	0.0	61.6	61.5	74.0	12.4	12.5
21	24400.0	40.9	41.0	40.1	36.6	22.7	0.0	57.6	57.7	74.0	16.4	16.3
22	24120.0	41.6	42.2	40.0	36.0	22.6	0.0	58.7	59.3	74.0	15.3	14.7

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-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 + Band Pass												
0	1192.4	32.6	32.7	23.0	36.9	3.8	0.0	22.5	22.6	54.0	31.5	31.4
1	2390.0	43.1	47.1	30.7	36.3	5.6	0.0	43.1	47.1	54.0	10.9	6.9
2	4824.0	30.7	30.4	35.2	36.1	8.0	1.0	38.8	38.5	54.0	15.2	15.5
3	4880.0	30.6	30.3	35.4	36.1	8.0	1.0	38.9	38.6	54.0	15.1	15.4
4	4890.0	31.7	32.9	35.5	36.1	8.0	1.0	40.1	41.3	54.0	13.9	12.7
5	7236.0	30.9	30.8	37.7	35.6	10.1	0.5	43.6	43.5	54.0	10.4	10.5
6	7320.0	31.0	31.0	37.9	35.7	10.2	0.5	43.9	43.9	54.0	10.1	10.1
7	7335.0	30.9	31.0	38.0	35.7	10.2	0.5	43.9	44.0	54.0	10.1	10.0
8	9648.0	31.1	31.1	37.1	36.3	11.9	0.5	44.3	44.3	54.0	9.7	9.7
9	9760.0	31.2	30.7	37.0	36.3	12.0	0.5	44.4	43.9	54.0	9.6	10.1
10	9780.0	30.8	30.8	37.0	36.3	12.0	0.5	44.0	44.0	54.0	10.0	10.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
11	12200.0	29.2	29.1	41.4	35.6	15.6	0.0	41.1	41.0	54.0	12.9	13.0
12	12060.0	29.5	29.4	41.1	35.7	15.5	0.0	40.9	40.8	54.0	13.1	13.2
13	14640.0	27.9	27.9	41.6	34.8	16.8	0.0	42.0	42.0	54.0	12.0	12.0
14	14472.0	28.0	28.1	41.0	34.6	16.6	0.0	41.5	41.6	54.0	12.5	12.4
15	16884.0	30.4	30.4	45.9	35.6	18.6	0.0	49.8	49.8	54.0	4.2	4.2
16	17080.0	30.7	30.7	46.4	35.4	18.8	0.0	51.0	51.0	54.0	3.0	3.0
17	19520.0	29.1	29.0	39.2	35.0	20.6	0.0	44.4	44.3	54.0	9.6	9.7
18	19296.0	29.6	29.6	39.6	34.9	20.4	0.0	45.2	45.2	54.0	8.8	8.8
19	21960.0	31.9	31.9	40.4	35.0	22.3	0.0	50.1	50.1	54.0	3.9	3.9
20	21708.0	30.8	30.9	40.7	35.3	22.1	0.0	48.8	48.9	54.0	5.2	5.1
21	24400.0	29.1	29.1	40.1	36.6	22.7	0.0	45.8	45.8	54.0	8.2	8.2
22	24120.0	29.7	29.7	40.0	36.0	22.6	0.0	46.8	46.8	54.0	7.2	7.2

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.

20dBc(Fundamental 2412MHz) (RBW:100kHz, VBW:300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-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 + Band Pass												
1	2412.0	85.2	86.2	30.8	36.3	6.5	0.0	86.2	87.2	Funda-20dB	-	-
2	2400.0	59.8	60.0	30.8	36.3	6.5	0.0	60.8	61.0	Funda-20dB	5.4	6.2

Spurious Emission (Radiated:LAN-11b,Tx2412MHz(Worst)+Reciever,Tx2479) above 1GHz

Company : Sony Corporation
Equipment : Personal Computer
Model : PCV-E21L
Sample No. : 16
Power : AC120V / 60Hz
Mode : LAN-11b, 11Mbps, PN9, Tx2412MHz(Worst)
+ Receiver, Tx2479MHz
+ Keyboard and Mouse, Tx2479MHz

UL Apex Co., Ltd.
Head Office EMC Lab. No.1 Semi Anechoic Chamber
Head Office EMC Lab. No.2 Semi Anechoic Chamber (above 1C)
REPORT NO : 25BE00202-HO
REGULATION : Fcc Part15 Subpart C 15.247(C)
TEST DISTANCE : 3/1m
DATE : 10/01/2004, 10/11/2004 and 10/12/2
TEMPERATURE : 24 deg.C, 25deg.C and 25deg.C
HUMIDITY : 58 %, 60% and 60%
ENGINEER : Hiroka Umeyama

PK DETECT

(RBW: 1MHz, VBW:1MHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
0	1192.4	46.4	46.3	23.0	36.9	3.8	0.0	36.3	36.2	74.0	37.7	37.8
1	2390.0	55.2	57.9	30.7	36.3	5.6	0.0	55.2	57.9	74.0	18.8	16.1
2	2483.5	58.6	60.8	30.8	36.2	5.6	0.0	58.8	61.0	74.0	15.2	13.0
3	4824.0	43.8	44.3	35.2	36.1	8.0	1.0	51.9	52.4	74.0	22.1	21.6
4	4958.0	49.5	45.9	35.8	36.1	8.2	1.0	58.4	54.8	74.0	15.6	19.2
5	7236.0	44.4	43.9	37.7	35.6	10.1	0.5	57.1	56.6	74.0	16.9	17.4
6	7437.0	44.7	44.6	38.2	35.7	10.3	0.5	58.0	57.9	74.0	16.0	16.1
7	9648.0	43.9	44.3	37.1	36.3	11.9	0.5	57.1	57.5	74.0	16.9	16.5
8	9916.0	44.0	44.1	37.0	36.3	12.1	0.5	57.3	57.4	74.0	16.7	16.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
9	12395.0	40.8	41.2	41.9	35.5	15.7	0.0	53.4	53.8	74.0	20.6	20.2
10	12060.0	40.6	40.9	41.1	35.7	15.5	0.0	52.0	52.3	74.0	22.0	21.7
11	14874.0	40.5	41.4	42.6	35.0	17.1	0.0	55.7	56.6	74.0	18.3	17.4
12	14472.0	38.8	38.5	41.0	34.6	16.6	0.0	52.3	52.0	74.0	21.7	22.0
13	16884.0	42.1	42.2	46.0	35.5	18.6	0.0	61.7	61.8	74.0	12.3	12.2
14	17353.0	42.1	42.5	46.9	35.2	19.0	0.0	63.3	63.7	74.0	10.7	10.3
15	19832.0	41.5	41.4	39.9	35.3	20.8	0.0	57.4	57.3	74.0	16.6	16.7
16	19296.0	42.7	42.1	39.6	34.9	20.4	0.0	58.3	57.7	74.0	15.7	16.3
17	22311.0	44.1	44.0	40.7	35.1	22.4	0.0	62.6	62.5	74.0	11.4	11.5
18	21708.0	43.2	43.0	40.7	35.3	22.1	0.0	61.2	61.0	74.0	12.8	13.0
19	24790.0	42.0	42.2	40.2	36.7	22.9	0.0	58.9	59.1	74.0	15.1	14.9
20	24120.0	41.9	42.0	40.0	36.0	22.6	0.0	59.0	59.1	74.0	15.0	14.9

AV DETECT

(RBW: 1MHz, VBW:10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-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 + Band Pass												
0	1192.4	32.6	32.6	23.0	36.9	3.8	0.0	22.5	22.5	54.0	31.5	31.5
1	2390.0	42.8	46.8	30.7	36.3	5.6	0.0	42.8	46.8	54.0	11.2	7.2
2	2483.5	47.2	49.4	30.8	36.2	5.6	0.0	47.4	49.6	54.0	6.6	4.4
3	4824.0	30.3	30.3	35.2	36.1	8.0	1.0	38.4	38.4	54.0	15.6	15.6
4	4958.0	31.3	31.2	35.8	36.1	8.2	1.0	40.2	40.1	54.0	13.8	13.9
5	7236.0	30.8	30.8	37.7	35.6	10.1	0.5	43.5	43.5	54.0	10.5	10.5
6	7437.0	31.5	31.3	38.2	35.7	10.3	0.5	44.8	44.6	54.0	9.2	9.4
7	9648.0	30.9	31.0	37.1	36.3	11.9	0.5	44.1	44.2	54.0	9.9	9.8
8	9916.0	30.6	31.0	37.0	36.3	12.1	0.5	43.9	44.3	54.0	10.1	9.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
9	12395.0	29.3	29.4	41.9	35.5	15.7	0.0	41.9	42.0	54.0	12.1	12.0
10	12060.0	29.4	29.2	41.1	35.7	15.5	0.0	40.8	40.6	54.0	13.2	13.4
11	14874.0	28.7	28.7	42.6	35.0	17.1	0.0	43.9	43.9	54.0	10.1	10.1
12	14472.0	28.1	28.2	41.0	34.6	16.6	0.0	41.6	41.7	54.0	12.4	12.3
13	16884.0	30.4	30.4	46.0	35.5	18.6	0.0	50.0	50.0	54.0	4.0	4.0
14	17353.0	30.4	30.4	46.9	35.2	19.0	0.0	51.6	51.6	54.0	2.4	2.4
15	19832.0	28.6	28.6	39.9	35.3	20.8	0.0	44.5	44.5	54.0	9.5	9.5
16	19296.0	29.7	29.6	39.6	34.9	20.4	0.0	45.3	45.2	54.0	8.7	8.8
17	22311.0	31.7	31.7	40.7	35.1	22.4	0.0	50.2	50.2	54.0	3.8	3.8
18	21708.0	30.9	30.9	40.7	35.3	22.1	0.0	48.9	48.9	54.0	5.1	5.1
19	24790.0	29.5	29.5	40.2	36.7	22.9	0.0	46.4	46.4	54.0	7.6	7.6
20	24120.0	29.6	29.7	40.0	36.0	22.6	0.0	46.7	46.8	54.0	7.3	7.2

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

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

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

20dBc(Fundamental 2412MHz)

(RBW: 100kHz, VBW:300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-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 + Band Pass												
1	2412.0	85.2	86.2	30.8	36.3	6.5	0.0	86.2	87.2	-	-	-
2	2400.0	60.1	60.4	30.8	36.3	6.5	0.0	61.1	61.4	Funda-20dB	5.1	5.8

Spurious Emission (Radiated:LAN-11g,Tx2412MHz(Worst)+Reciever,Tx2402) above 1GHz

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Personal Computer
Model : PCV-E21L
Sample No. : 16
Power : AC120V / 60Hz
Mode : LAN-11g, 54Mbps, PN9, Tx2412MHz(Worst)
+ Receiver, Tx2402MHz
+ Keyboard and Mouse, Tx2402MHz

REPORT NO : 25BE0202-HO
REGULATION : Fcc Part15 Subpart C 15.247(C)
TEST DISTANCE : 3/1m
DATE : 9/29/2004, 10/11/2004 and 10/12/20
TEMPERATURE : 26 deg.C, 25deg.C and 25deg.C
HUMIDITY : 60 % , 60% and 60%
ENGINEER : Hiroka Umeyama

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

No.	FREQ [MHz]	S/A READING HOR VER [dBuV/m]		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT HOR VER [dBuV/m]		Limit PK [dBuV/m]	MARGIN HOR VER [dB]	
		VER						VER			VER	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
0	1194.5	52.6	50.5	23.0	36.9	4.4	0.0	43.1	41.0	74.0	30.9	33.0
1	2390.0	52.1	53.4	30.8	36.3	6.4	0.0	53.0	54.3	74.0	21.0	19.7
2	4804.0	47.6	45.5	35.3	36.1	9.3	1.0	57.1	55.0	74.0	16.9	19.0
3	4824.0	43.3	43.7	35.4	36.1	9.3	1.0	52.9	53.3	74.0	21.1	20.7
4	7206.0	43.7	43.2	37.9	35.6	11.8	0.5	58.3	57.8	74.0	15.7	16.2
5	7236.0	42.8	42.8	38.0	35.6	11.8	0.5	57.5	57.5	74.0	16.5	16.5
6	9648.0	42.9	43.0	37.5	36.3	13.9	0.5	58.5	58.6	74.0	15.5	15.4
7	9760.0	43.9	42.9	37.3	36.3	14.0	0.5	59.4	58.4	74.0	14.6	15.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
8	12010.0	41.1	41.1	41.0	35.7	15.5	0.0	52.4	52.4	74.0	21.6	21.6
9	12060.0	40.7	40.9	41.1	35.7	15.5	0.0	52.1	52.3	74.0	21.9	21.7
10	14412.0	40.5	40.2	41.1	34.6	16.6	0.0	54.1	53.8	74.0	19.9	20.2
11	14472.0	39.3	40.1	41.0	34.6	16.6	0.0	52.8	53.6	74.0	21.2	20.4
12	16814.0	42.3	42.3	45.9	35.6	18.6	0.0	61.7	61.7	74.0	12.3	12.3
13	16884.0	41.7	42.0	46.0	35.5	18.6	0.0	61.3	61.6	74.0	12.7	12.4
14	19216.0	42.5	42.8	39.7	34.9	20.3	0.0	58.1	58.4	74.0	15.9	15.6
15	19296.0	42.3	42.2	39.6	34.9	20.4	0.0	57.9	57.8	74.0	16.1	16.2
16	21618.0	43.1	42.5	40.8	35.4	22.1	0.0	61.1	60.5	74.0	12.9	13.5
17	21708.0	44.2	43.6	40.7	35.3	22.1	0.0	62.2	61.6	74.0	11.8	12.4
18	24020.0	41.1	41.4	39.9	35.8	22.6	0.0	58.3	58.6	74.0	15.7	15.4
19	24120.0	42.3	41.7	40.0	36.0	22.6	0.0	59.4	58.8	74.0	14.6	15.2

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

No.	FREQ [MHz]	S/A READING HOR VER [dBuV/m]		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT HOR VER [dBuV/m]		Limit AV [dBuV/m]	MARGIN HOR VER [dB]	
		VER						VER			VER	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
0	1194.5	38.7	35.4	23.0	36.9	4.4	0.0	29.2	25.9	54.0	24.8	28.1
1	2390.0	37.3	37.4	30.8	36.3	6.4	0.0	38.2	38.3	54.0	15.8	15.7
2	4804.0	32.3	32.5	35.3	36.1	9.3	1.0	41.8	42.0	54.0	12.2	12.0
3	4824.0	31.2	31.2	35.4	36.1	9.3	1.0	40.8	40.8	54.0	13.2	13.2
4	7206.0	32.5	30.9	37.9	35.6	11.8	0.5	47.1	45.5	54.0	6.9	8.5
5	7236.0	30.1	30.2	38.0	35.6	11.8	0.5	44.8	44.9	54.0	9.2	9.1
6	9648.0	30.7	30.7	37.5	36.3	13.9	0.5	46.3	46.3	54.0	7.7	7.7
7	9760.0	30.7	30.7	37.3	36.3	14.0	0.5	46.2	46.2	54.0	7.8	7.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
8	12010.0	29.3	29.3	41.0	35.7	15.5	0.0	40.6	40.6	54.0	13.4	13.4
9	12060.0	29.5	29.6	41.1	35.7	15.5	0.0	40.9	41.0	54.0	13.1	13.0
10	14412.0	28.1	28.3	41.1	34.6	16.6	0.0	41.7	41.9	54.0	12.3	12.1
11	14472.0	28.4	28.4	41.0	34.6	16.6	0.0	41.9	41.9	54.0	12.1	12.1
12	16814.0	30.6	30.5	45.9	35.6	18.6	0.0	50.0	49.9	54.0	4.0	4.1
13	16884.0	30.7	30.7	46.0	35.5	18.6	0.0	50.3	50.3	54.0	3.7	3.7
14	19216.0	29.9	29.9	39.7	34.9	20.3	0.0	45.5	45.5	54.0	8.5	8.5
15	19296.0	29.7	29.7	39.6	34.9	20.4	0.0	45.3	45.3	54.0	8.7	8.7
16	21618.0	30.4	30.4	40.8	35.4	22.1	0.0	48.4	48.4	54.0	5.6	5.6
17	21708.0	30.8	30.8	40.7	35.3	22.1	0.0	48.8	48.8	54.0	5.2	5.2
18	24020.0	29.1	29.1	39.9	35.8	22.6	0.0	46.3	46.3	54.0	7.7	7.7
19	24120.0	29.7	29.7	40.0	36.0	22.6	0.0	46.8	46.8	54.0	7.2	7.2

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

20dBc(Fundamental 2412MHz) (RBW: 100kHz, VBW:300kHz)

No.	FREQ [MHz]	S/A READING HOR VER [dBuV/m]		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT HOR VER [dBuV/m]		Limit 20dBc [dBuV/m]	MARGIN HOR VER [dB]	
		VER						VER			VER	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	2412.0	80.1	80.3	30.8	36.3	6.5	0.0	81.1	81.3	-	-	-
2	2400.0	55.5	53.5	30.8	36.3	6.5	0.0	56.5	54.5	Funda-20dB	4.6	6.8

UL Apex Co., Ltd.
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

Spurious Emission (Radiated:LAN-11g,Tx2412MHz(Worst)+Reciever,Tx2440) above 1GHz

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Personal Computer
Model : PCV-E21L
Sample No. : 16
Power : AC120V / 60Hz
Mode : LAN-11g, 54Mbps, PN9, Tx2412MHz(Worst)
+ Receiver Tx2440MHz
+ Keyboard Tx2440MHz and Mouse Tx2445MHz
(RBW: 1MHz, VBW:1MHz)

REPORT NO : 25BE0202-HO
REGULATION : Fcc Part15 Subpart C 15.247(C)
TEST DISTANCE : 3/1m
DATE : 9/29/2004, 10/11/2004 and 10/12/20
TEMPERATURE : 26 deg.C, 25deg.C and 25deg.C
HUMIDITY : 60% , 60% and 60%
ENGINEER : Hiroka Umeyama

PK DETECT

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
0	1194.5	55.5	51.2	23.0	36.9	4.4	0.0	46.0	41.7	74.0	28.0	32.3
1	2390.0	55.1	54.5	30.7	36.3	5.6	0.0	55.1	54.5	74.0	18.9	19.5
2	4824.0	42.3	45.7	35.2	36.1	8.0	1.0	50.4	53.8	74.0	23.6	20.2
3	4880.0	42.3	42.8	35.4	36.1	8.0	1.0	50.6	51.1	74.0	23.4	22.9
4	4890.0	43.0	44.1	35.5	36.1	8.0	1.0	51.4	52.5	74.0	22.6	21.5
5	7236.0	42.9	42.7	37.7	35.6	10.1	0.5	55.6	55.4	74.0	18.4	18.6
6	7320.0	43.0	43.0	37.9	35.7	10.2	0.5	55.9	55.9	74.0	18.1	18.1
7	7335.0	43.1	43.0	38.0	35.7	10.2	0.5	56.1	56.0	74.0	17.9	18.0
8	9648.0	43.5	43.6	37.1	36.3	11.9	0.5	56.7	56.8	74.0	17.3	17.2
9	9760.0	43.5	43.5	37.0	36.3	12.0	0.5	56.7	56.7	74.0	17.3	17.3
10	9780.0	43.4	43.4	37.0	36.3	12.0	0.5	56.6	56.6	74.0	17.4	17.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
11	12200.0	41.1	41.1	41.4	35.6	15.6	0.0	53.0	53.0	74.0	21.0	21.0
12	12060.0	40.5	40.8	41.1	35.7	15.5	0.0	51.9	52.2	74.0	22.1	21.8
13	14640.0	39.6	39.5	41.6	34.8	16.8	0.0	53.7	53.6	74.0	20.3	20.4
14	14472.0	40.1	40.3	41.0	34.6	16.6	0.0	53.6	53.8	74.0	20.4	20.2
15	16884.0	42.6	42.8	45.9	35.6	18.6	0.0	62.0	62.2	74.0	12.0	11.8
16	17080.0	42.0	42.1	46.4	35.4	18.8	0.0	62.3	62.4	74.0	11.7	11.6
17	19520.0	41.2	41.3	39.2	35.0	20.6	0.0	56.5	56.6	74.0	17.5	17.4
18	19296.0	41.7	42.4	39.6	34.9	20.4	0.0	57.3	58.0	74.0	16.7	16.0
19	21960.0	44.5	44.4	40.4	35.0	22.3	0.0	62.7	62.6	74.0	11.3	11.4
20	21708.0	43.3	43.8	40.7	35.3	22.1	0.0	61.3	61.8	74.0	12.7	12.2
21	24400.0	41.6	42.3	40.1	36.6	22.7	0.0	58.3	59.0	74.0	15.7	15.0
22	24120.0	42.3	42.3	40.0	36.0	22.6	0.0	59.4	59.4	74.0	14.6	14.6

AV DETECT

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-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 + Band Pass												
0	1194.5	42.7	36.7	23.0	36.9	4.4	0.0	33.2	27.2	54.0	20.8	26.8
1	2390.0	40.2	39.4	30.7	36.3	5.6	0.0	40.2	39.4	54.0	13.8	14.6
2	4824.0	31.1	31.4	35.2	36.1	8.0	1.0	39.2	39.5	54.0	14.8	14.5
3	4880.0	31.1	31.1	35.4	36.1	8.0	1.0	39.4	39.4	54.0	14.6	14.6
4	4890.0	31.1	31.1	35.5	36.1	8.0	1.0	39.5	39.5	54.0	14.5	14.5
5	7236.0	30.1	30.1	37.7	35.6	10.1	0.5	42.8	42.8	54.0	11.2	11.2
6	7320.0	30.4	30.1	37.9	35.7	10.2	0.5	43.3	43.0	54.0	10.7	11.0
7	7335.0	30.4	30.1	38.0	35.7	10.2	0.5	43.4	43.1	54.0	10.6	10.9
8	9648.0	30.9	31.0	37.1	36.3	11.9	0.5	44.1	44.2	54.0	9.9	9.8
9	9760.0	30.9	31.0	37.0	36.3	12.0	0.5	44.1	44.2	54.0	9.9	9.8
10	9780.0	30.9	31.1	37.0	36.3	12.0	0.5	44.1	44.3	54.0	9.9	9.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
11	12200.0	29.1	29.1	41.4	35.6	15.6	0.0	41.0	41.0	54.0	13.0	13.0
12	12060.0	29.3	29.3	41.1	35.7	15.5	0.0	40.7	40.7	54.0	13.3	13.3
13	14640.0	28.0	28.1	41.6	34.8	16.8	0.0	42.1	42.2	54.0	11.9	11.8
14	14472.0	28.1	28.2	41.0	34.6	16.6	0.0	41.6	41.7	54.0	12.4	12.3
15	16884.0	30.4	30.4	45.9	35.6	18.6	0.0	49.8	49.8	54.0	4.2	4.2
16	17080.0	30.7	30.8	46.4	35.4	18.8	0.0	51.0	51.1	54.0	3.0	2.9
17	19520.0	29.1	29.0	39.2	35.0	20.6	0.0	44.4	44.3	54.0	9.6	9.7
18	19296.0	29.7	29.7	39.6	34.9	20.4	0.0	45.3	45.3	54.0	8.7	8.7
19	21960.0	31.9	31.9	40.4	35.0	22.3	0.0	50.1	50.1	54.0	3.9	3.9
20	21708.0	30.8	30.8	40.7	35.3	22.1	0.0	48.8	48.8	54.0	5.2	5.2
21	24400.0	29.2	29.2	40.1	36.6	22.7	0.0	45.9	45.9	54.0	8.1	8.1
22	24120.0	29.7	29.7	40.0	36.0	22.6	0.0	46.8	46.8	54.0	7.2	7.2

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.

20dBc(Fundamental 2412MHz) (RBW: 100kHz, VBW:300kHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-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 + Band Pass												
1	2412.0	80.1	80.3	30.8	36.3	6.5	0.0	81.1	81.3	-	-	-
2	2400.0	51.9	53.3	30.8	36.3	6.5	0.0	52.9	54.3	Funda-20dB	8.2	7.0

UL Apex Co., Ltd.
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

Spurious Emission (Radiated:LAN-11g,Tx2412MHz(Worst)+Reciever,Tx2479) above 1GHz

UL Apex Co., Ltd.
Head Office EMC Lab. No.2 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Personal Computer
Model : PCV-E21L
Sample No. : 16
Power : AC120V / 60Hz
Mode : LAN-11g, 54Mbps, PN9, Tx2412MHz(Worst)
+ Receiver, Tx2479MHz
+ Keyboard and Mouse, Tx2479MHz

REPORT NO : 25BE0202-HO
REGULATION : Fcc Part15 Subpart C 15.247(C)
TEST DISTANCE : 3/1m
DATE : 9/29/2004, 10/11/2004 and 10/12/20
TEMPERATURE : 26 deg.C, 25deg.C and 25deg.C
HUMIDITY : 60% , 60% and 60%
ENGINEER : Hiroka Umeyama

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER [dBuV/m]					HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
0	1194.5	57.1	49.4	23.0	36.9	4.4	0.0	47.6	39.9	74.0	26.4	34.1
1	2390.0	55.6	55.5	30.7	36.3	5.6	0.0	55.6	55.5	74.0	18.4	18.5
2	2483.5	56.1	58.1	30.8	36.2	5.6	0.0	56.3	58.3	74.0	17.7	15.7
3	4958.0	43.3	43.6	35.2	36.1	8.0	1.0	51.4	51.7	74.0	22.6	22.3
4	4824.0	45.1	43.6	35.8	36.1	8.2	1.0	54.0	52.5	74.0	20.0	21.5
5	7437.0	42.6	42.8	37.7	35.6	10.1	0.5	55.3	55.5	74.0	18.7	18.5
6	7236.0	42.2	43.8	38.2	35.7	10.3	0.5	55.5	57.1	74.0	18.5	16.9
7	9916.0	43.6	43.3	37.1	36.3	11.9	0.5	56.8	56.5	74.0	17.2	17.5
8	9648.0	44.1	44.1	37.0	36.3	12.1	0.5	57.4	57.4	74.0	16.6	16.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
9	12395.0	40.8	40.9	41.9	35.5	15.7	0.0	53.4	53.5	74.0	20.6	20.5
10	12060.0	41.3	41.3	41.1	35.7	15.5	0.0	52.7	52.7	74.0	21.3	21.3
11	14874.0	40.2	40.3	42.6	35.0	17.1	0.0	55.4	55.5	74.0	18.6	18.5
12	14472.0	39.4	40.6	41.0	34.6	16.6	0.0	52.9	54.1	74.0	21.1	19.9
13	16884.0	42.0	42.1	46.0	35.5	18.6	0.0	61.6	61.7	74.0	12.4	12.3
14	17353.0	41.9	42.0	46.9	35.2	19.0	0.0	63.1	63.2	74.0	10.9	10.8
15	19832.0	42.2	41.1	39.9	35.3	20.8	0.0	58.1	57.0	74.0	15.9	17.0
16	19296.0	42.1	41.7	39.6	34.9	20.4	0.0	57.7	57.3	74.0	16.3	16.7
17	22311.0	43.8	44.3	40.7	35.1	22.4	0.0	62.3	62.8	74.0	11.7	11.2
18	21708.0	43.0	42.9	40.7	35.3	22.1	0.0	61.0	60.9	74.0	13.0	13.1
19	24790.0	42.5	42.5	40.2	36.7	22.9	0.0	59.4	59.4	74.0	14.6	14.6
20	24120.0	42.1	42.4	40.0	36.0	22.6	0.0	59.2	59.5	74.0	14.8	14.5

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER [dBuV/m]					HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
0	1194.5	41.1	36.9	23.0	36.9	4.4	0.0	31.6	27.4	54.0	22.4	26.6
1	2390.0	39.2	39.1	30.7	36.3	5.6	0.0	39.2	39.1	54.0	14.8	14.9
2	2483.5	43.8	44.2	30.8	36.2	5.6	0.0	44.0	44.4	54.0	10.0	9.6
3	4958.0	31.1	31.1	35.2	36.1	8.0	1.0	39.2	39.2	54.0	14.8	14.8
4	4824.0	32.8	33.2	35.8	36.1	8.2	1.0	41.7	42.1	54.0	12.3	11.9
5	7437.0	30.4	30.4	37.7	35.6	10.1	0.5	43.1	43.1	54.0	10.9	10.9
6	7236.0	30.3	30.2	38.2	35.7	10.3	0.5	43.6	43.5	54.0	10.4	10.5
7	9916.0	31.3	31.1	37.1	36.3	11.9	0.5	44.5	44.3	54.0	9.5	9.7
8	9648.0	30.9	31.0	37.0	36.3	12.1	0.5	44.2	44.3	54.0	9.8	9.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass - Dfac												
9	12395.0	29.2	29.3	41.9	35.5	15.7	0.0	41.8	41.9	54.0	12.2	12.1
10	12060.0	29.2	29.2	41.1	35.7	15.5	0.0	40.6	40.6	54.0	13.4	13.4
11	14874.0	28.6	28.6	42.6	35.0	17.1	0.0	43.8	43.8	54.0	10.2	10.2
12	14472.0	28.1	28.2	41.0	34.6	16.6	0.0	41.6	41.7	54.0	12.4	12.3
13	16884.0	30.3	30.3	46.0	35.5	18.6	0.0	49.9	49.9	54.0	4.1	4.1
14	17353.0	30.4	30.4	46.9	35.2	19.0	0.0	51.6	51.6	54.0	2.4	2.4
15	19832.0	28.6	28.6	39.9	35.3	20.8	0.0	44.5	44.5	54.0	9.5	9.5
16	19296.0	29.7	29.7	39.6	34.9	20.4	0.0	45.3	45.3	54.0	8.7	8.7
17	22311.0	31.7	31.7	40.7	35.1	22.4	0.0	50.2	50.2	54.0	3.8	3.8
18	21708.0	30.8	30.8	40.7	35.3	22.1	0.0	48.8	48.8	54.0	5.2	5.2
19	24790.0	29.5	29.5	40.2	36.7	22.9	0.0	46.4	46.4	54.0	7.6	7.6
20	24120.0	29.7	29.7	40.0	36.0	22.6	0.0	46.8	46.8	54.0	7.2	7.2

Test Distance 10m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

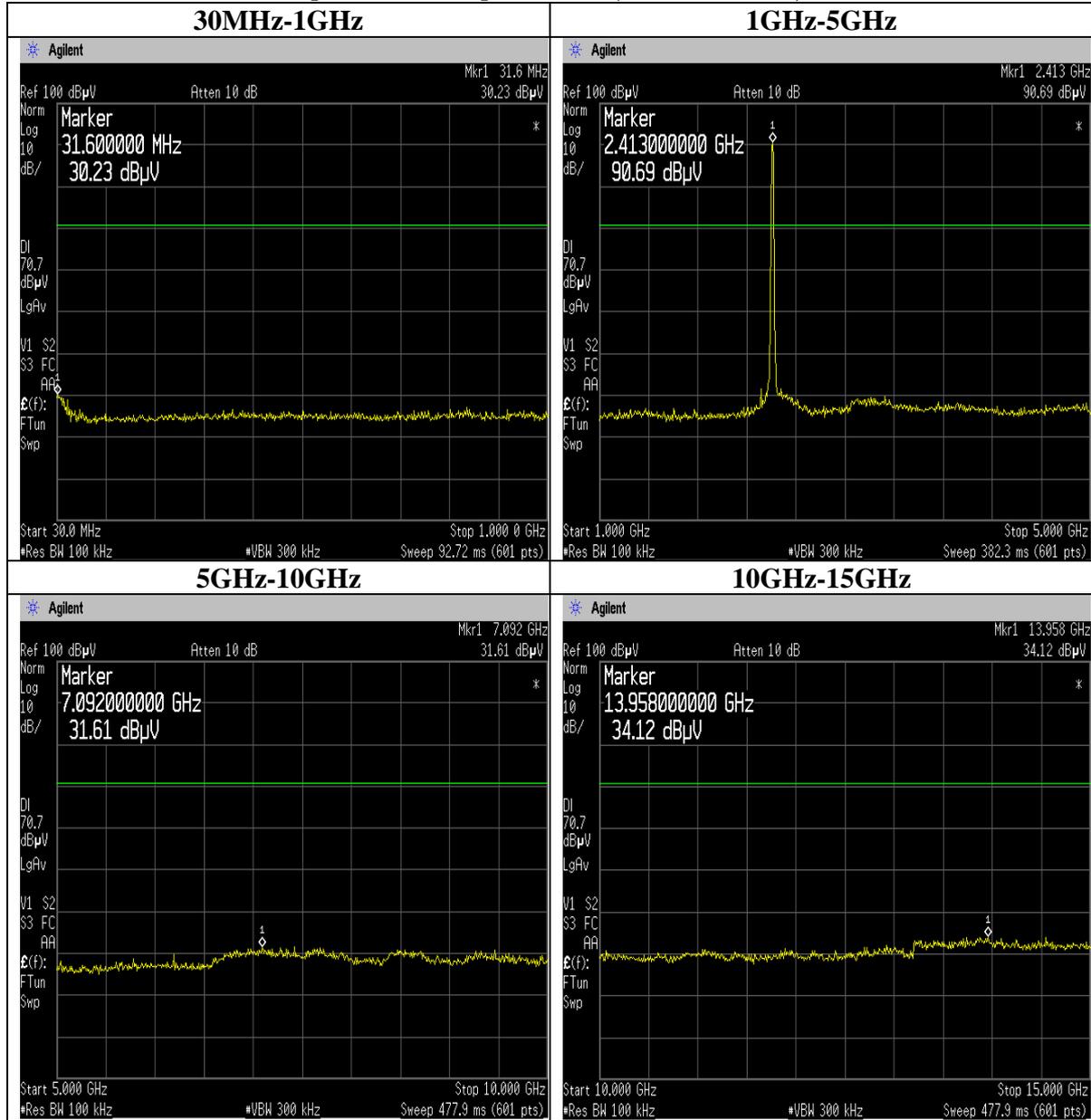
*Except for the above table : All other spurious emissions were less than 20dB for the limit.

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

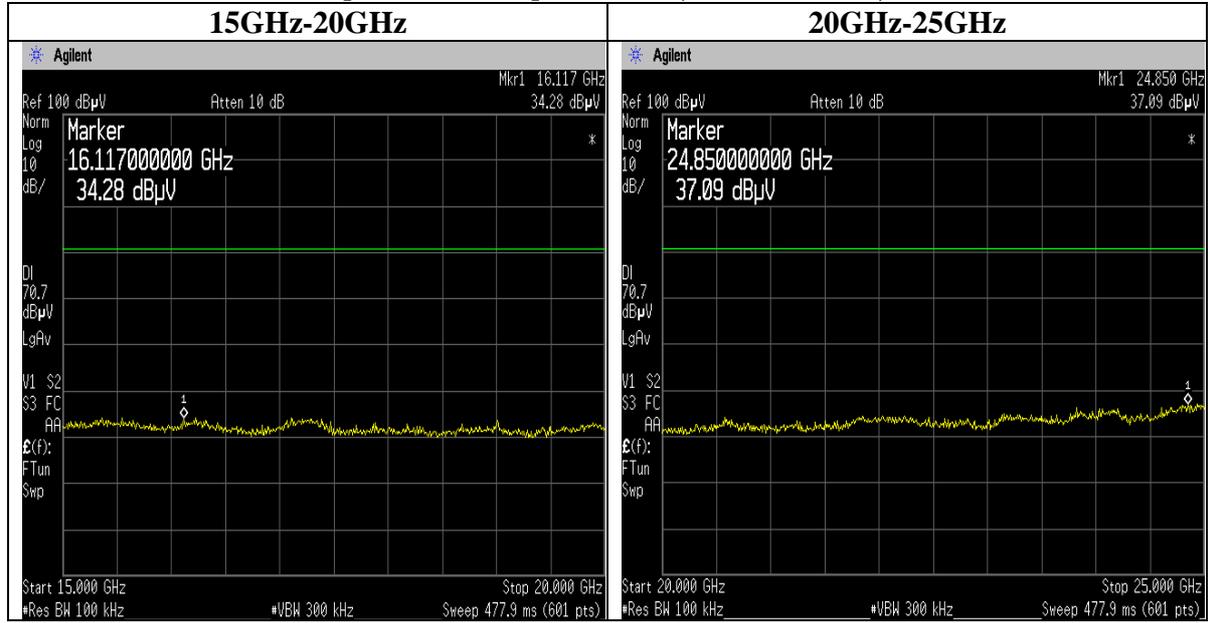
20dBc(Fundamental 2412MHz)
(RBW: 100kHz, VBW:300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Band-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR [dBuV/m]	VER [dBuV/m]					HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + Band Pass												
1	2412.0	80.1	80.3	30.8	36.3	6.5	0.0	81.1	81.3	-	-	-
2	2400.0	51.6	52.9	30.8	36.3	6.5	0.0	52.6	53.9	Funda-20dB	8.5	7.4

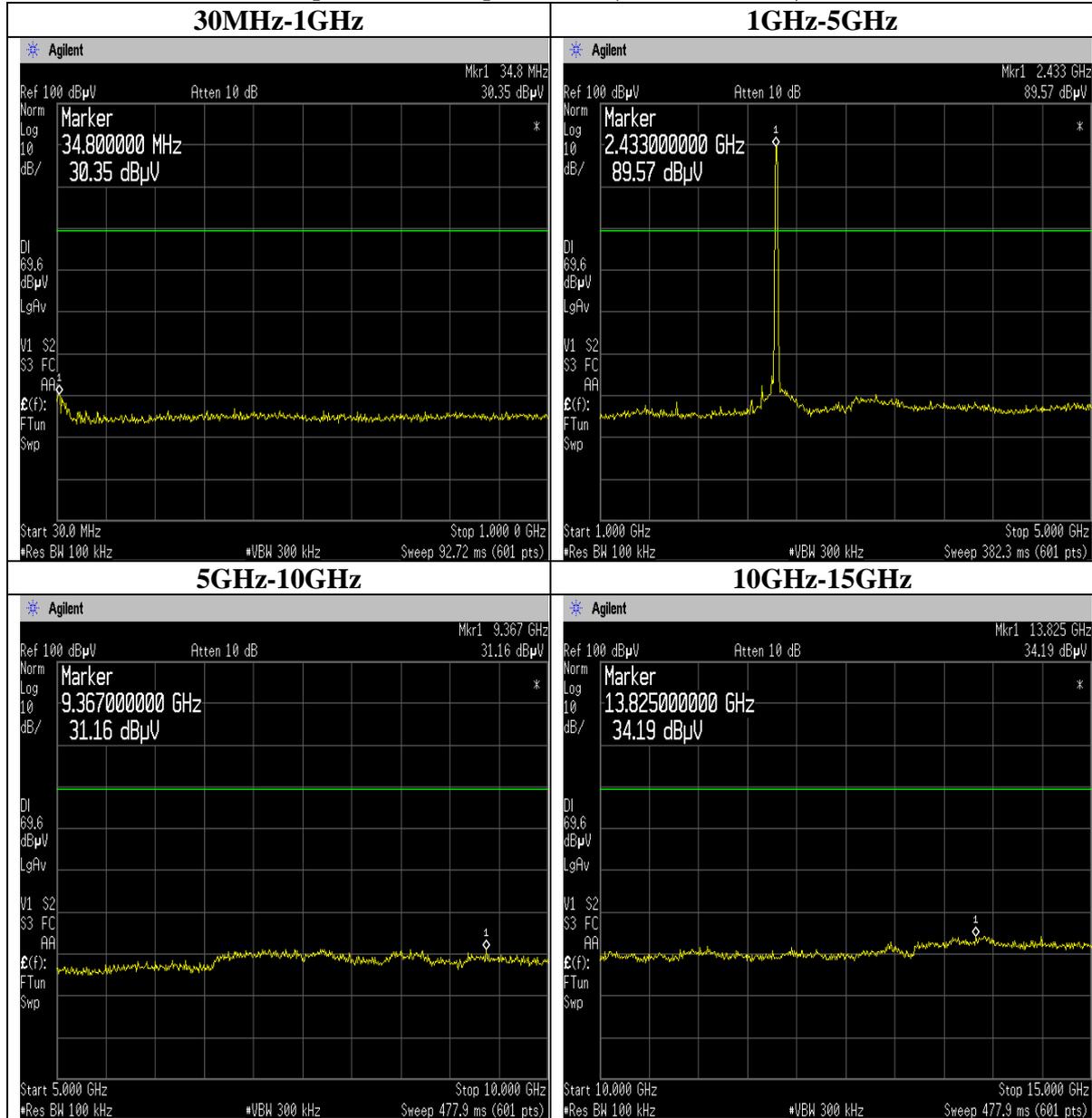
Conducted Spurious Emission(DSSS and other forms of modulation)
[IEEE802.11b] Ch : Low(Main Antenna)



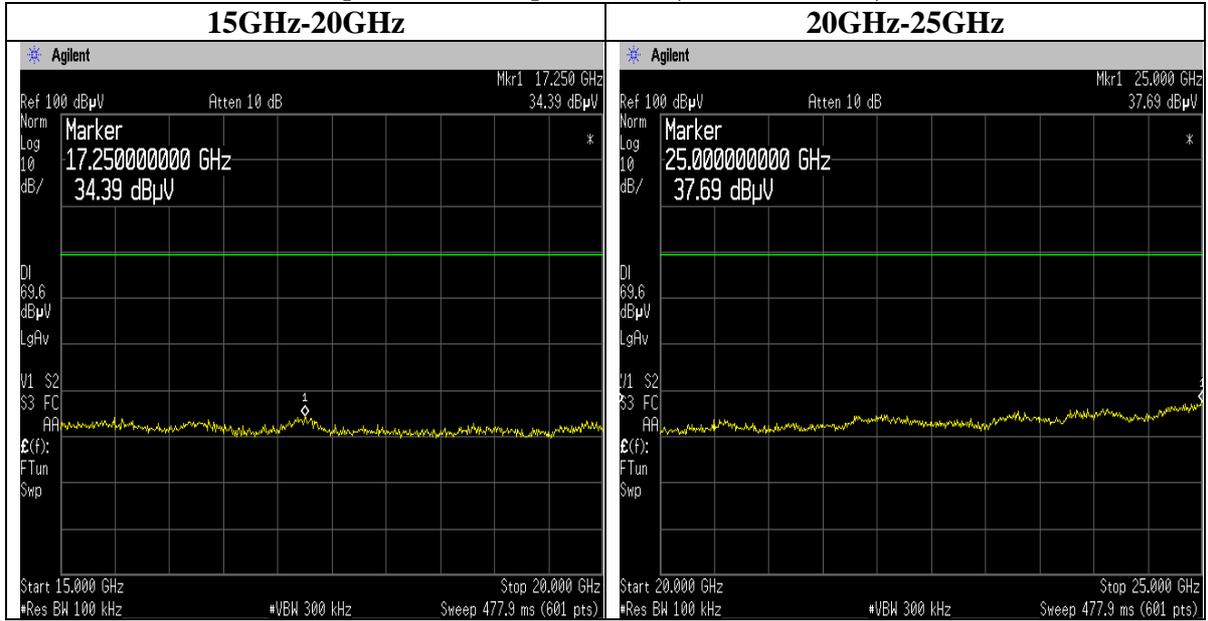
[IEEE802.11b] Ch : Low(Main Antenna)



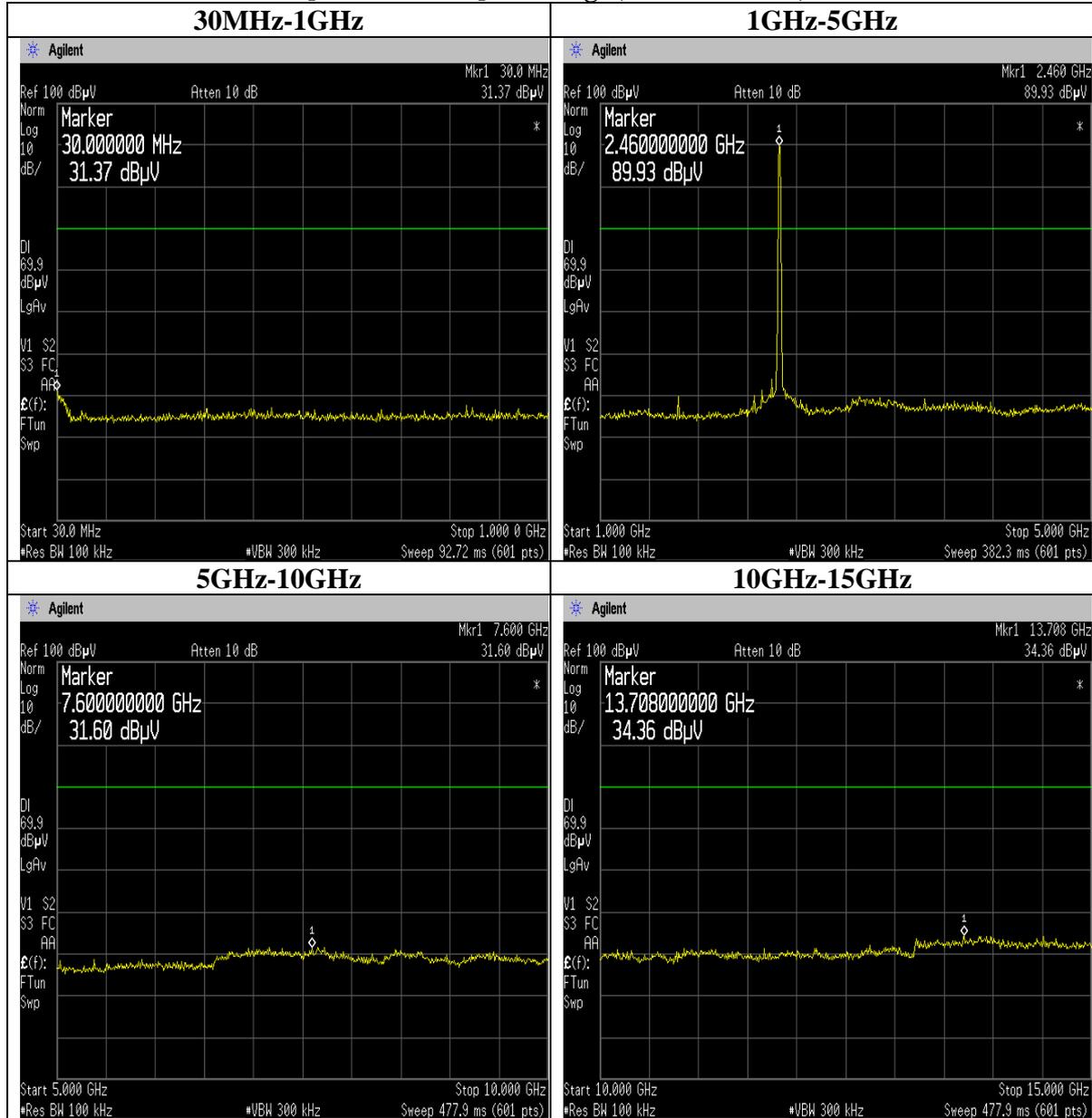
Conducted Spurious Emission(DSSS and other forms of modulation)
[IEEE802.11b] Ch : Mid(Main Antenna)



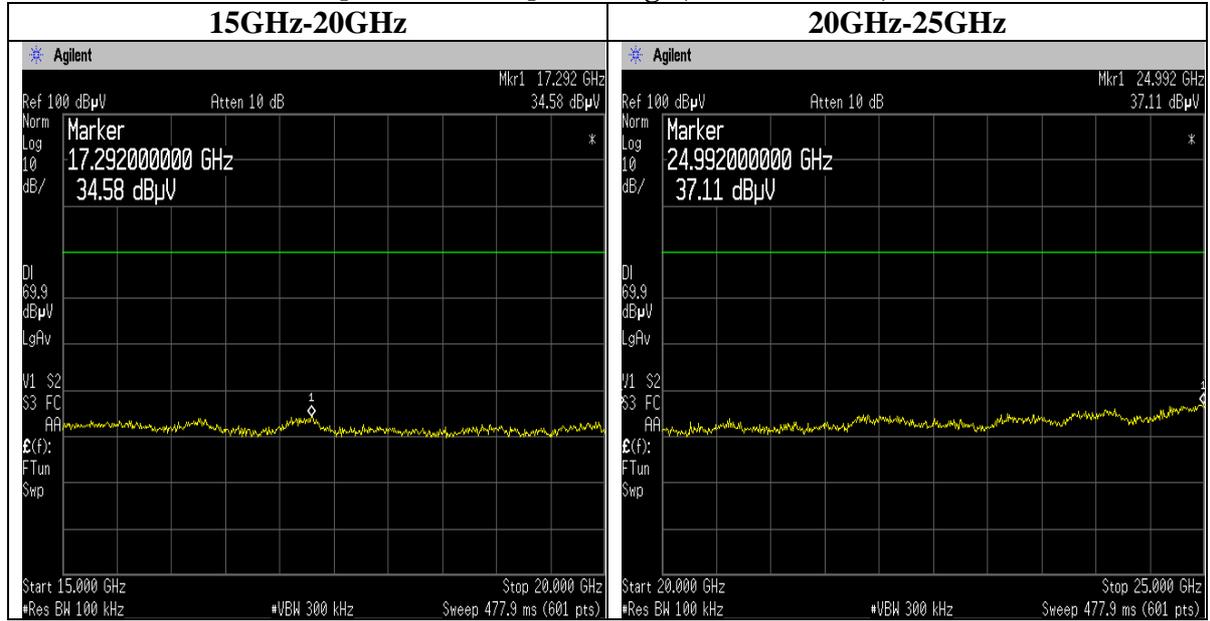
[IEEE802.11b] Ch : Mid(Main Antenna)



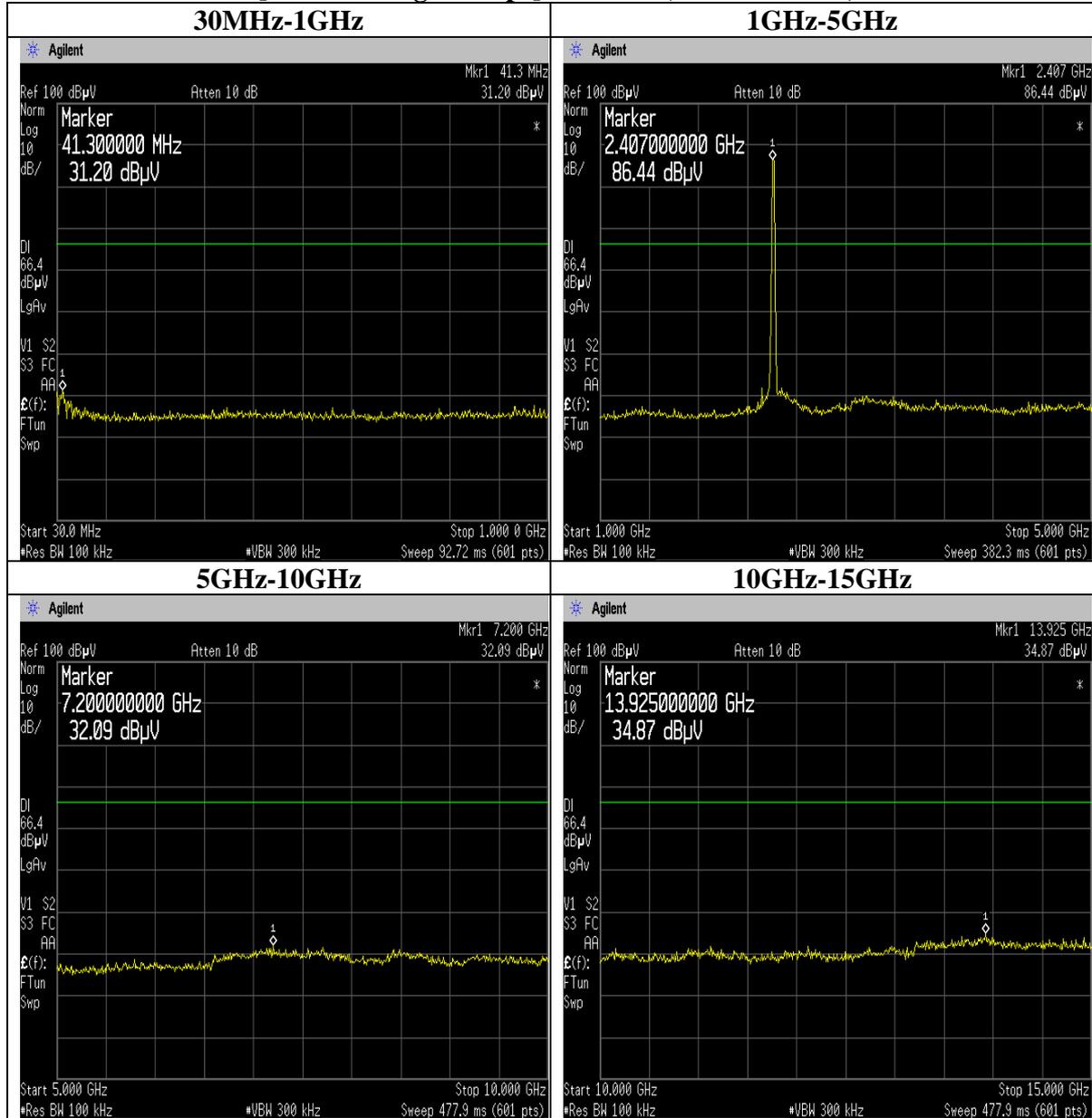
Conducted Spurious Emission(DSSS and other forms of modulation)
[IEEE802.11b] Ch : High(Main Antenna)



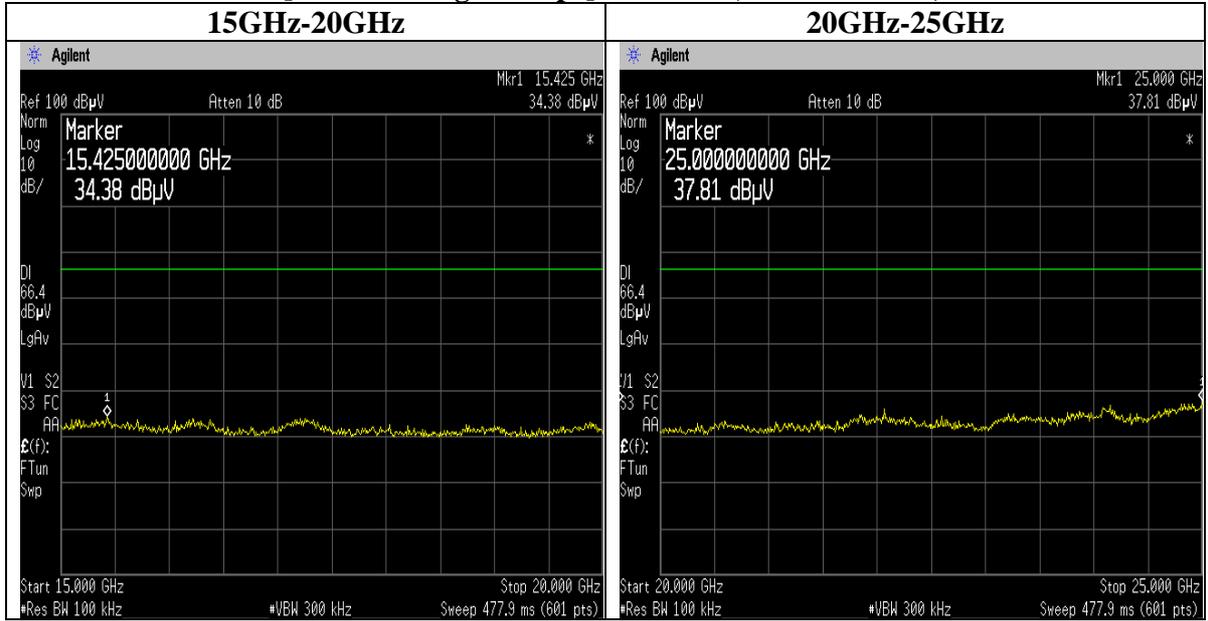
[IEEE802.11b] Ch : High(Main Antenna)



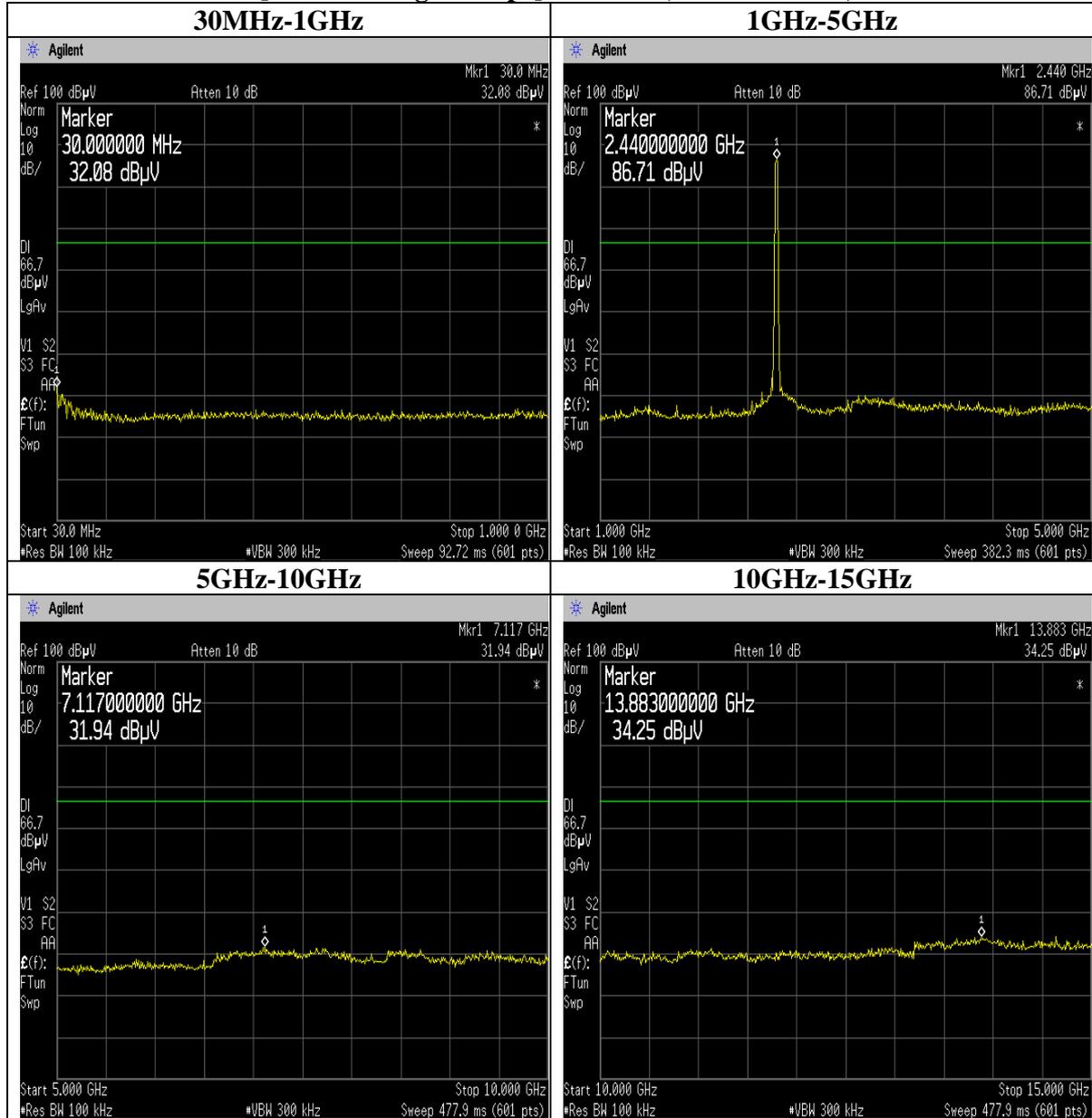
Conducted Spurious Emission(DSSS and other forms of modulation)
[IEEE802.11g 54Mbps] Ch : Low(Main Antenna)



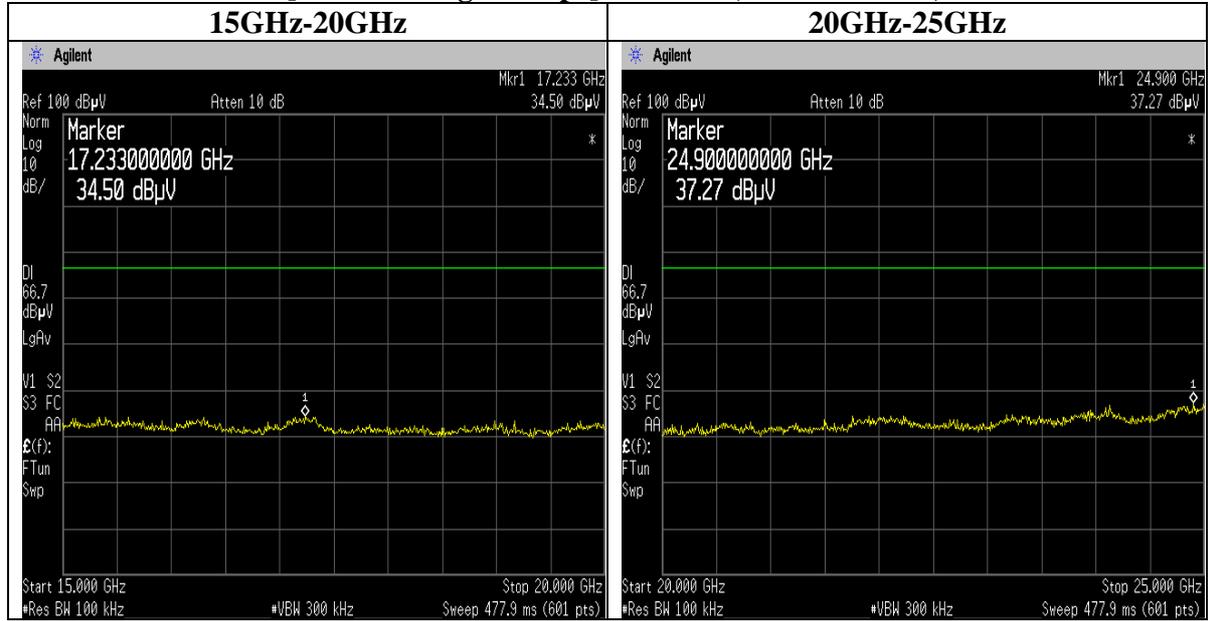
[IEEE802.11g 54Mbps] Ch : Low(Main Antenna)



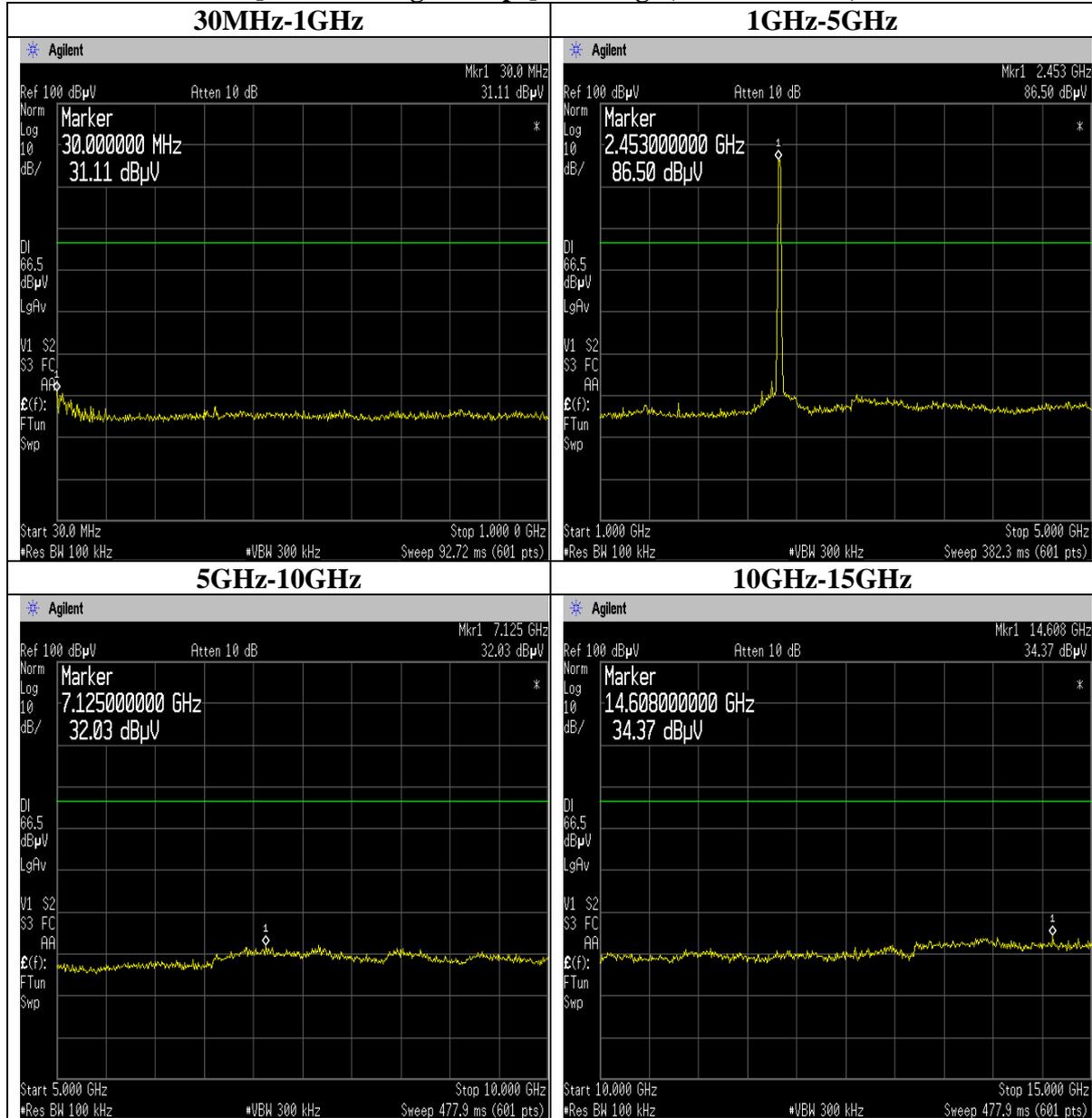
Conducted Spurious Emission(DSSS and other forms of modulation)
[IEEE802.11g 54Mbps] Ch : Mid(Main Antenna)



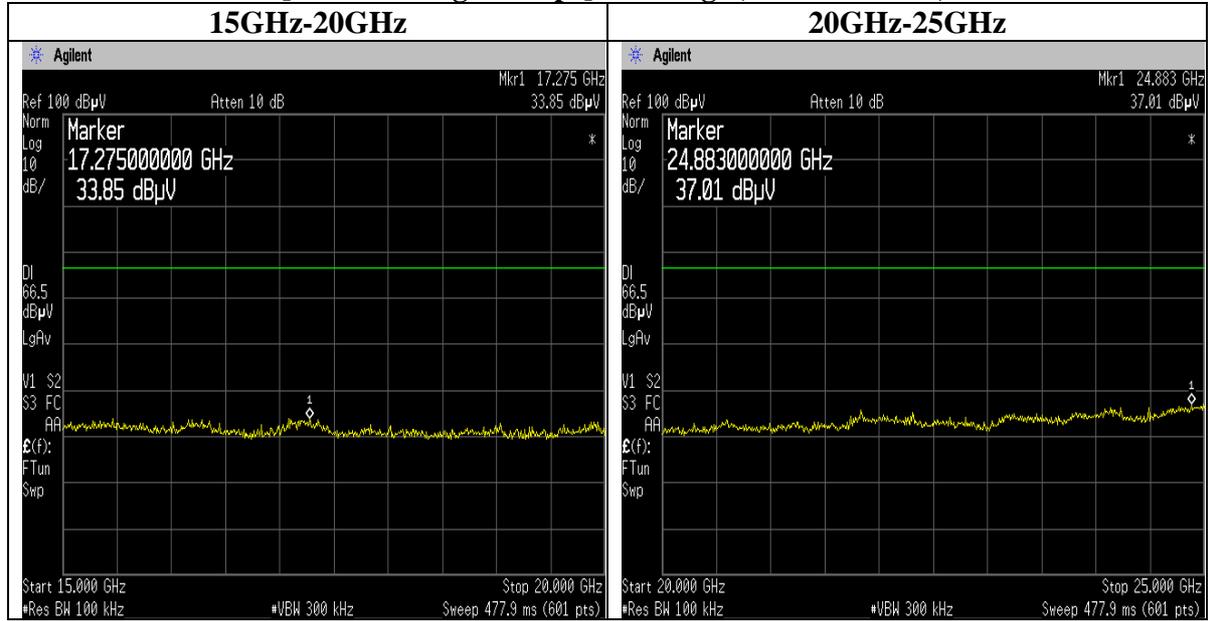
[IEEE802.11g 54Mbps] Ch : Mid(Main Antenna)



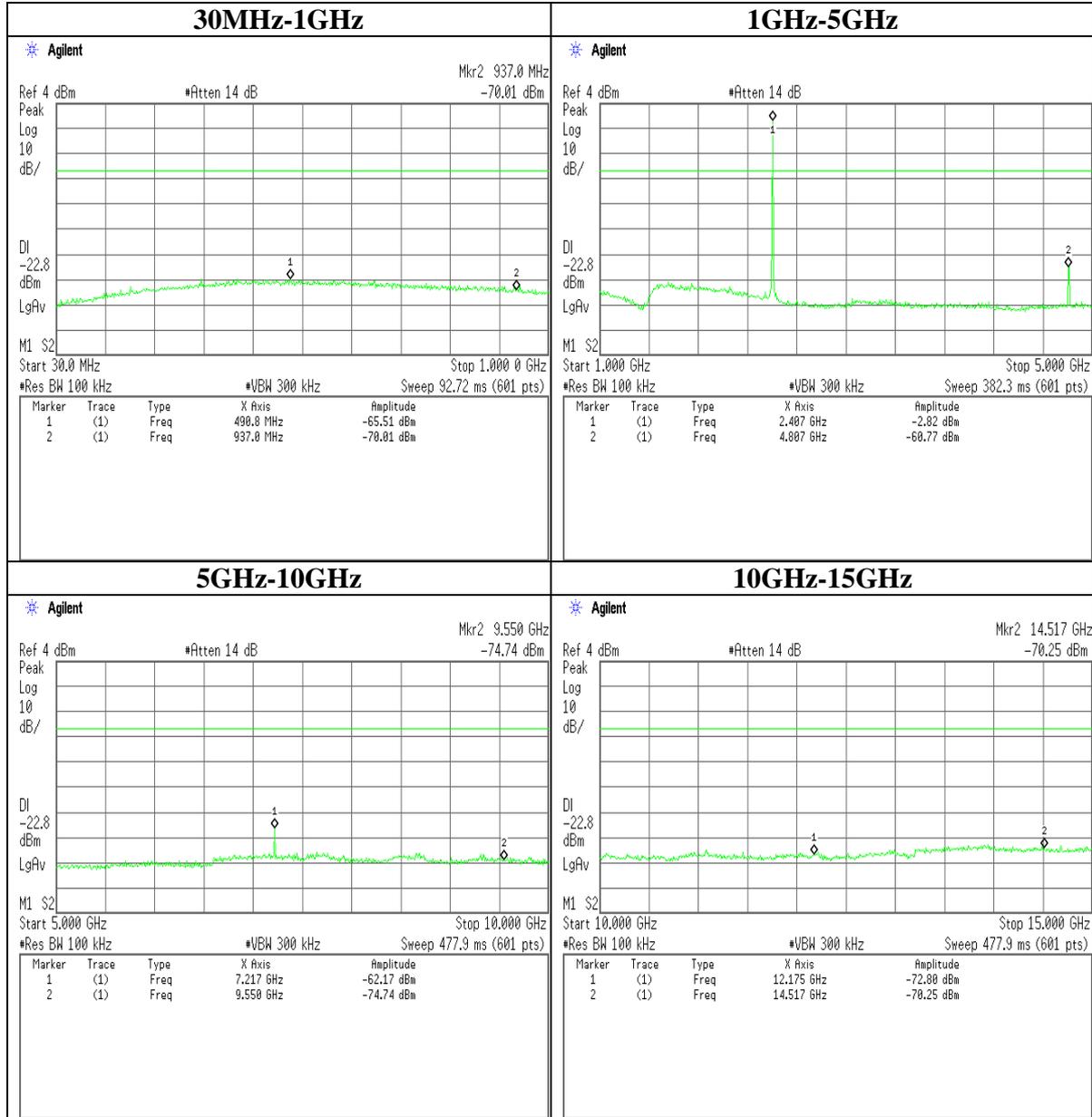
Conducted Spurious Emission(DSSS and other forms of modulation)
[IEEE802.11g 54Mbps] Ch : High(Main Antenna)



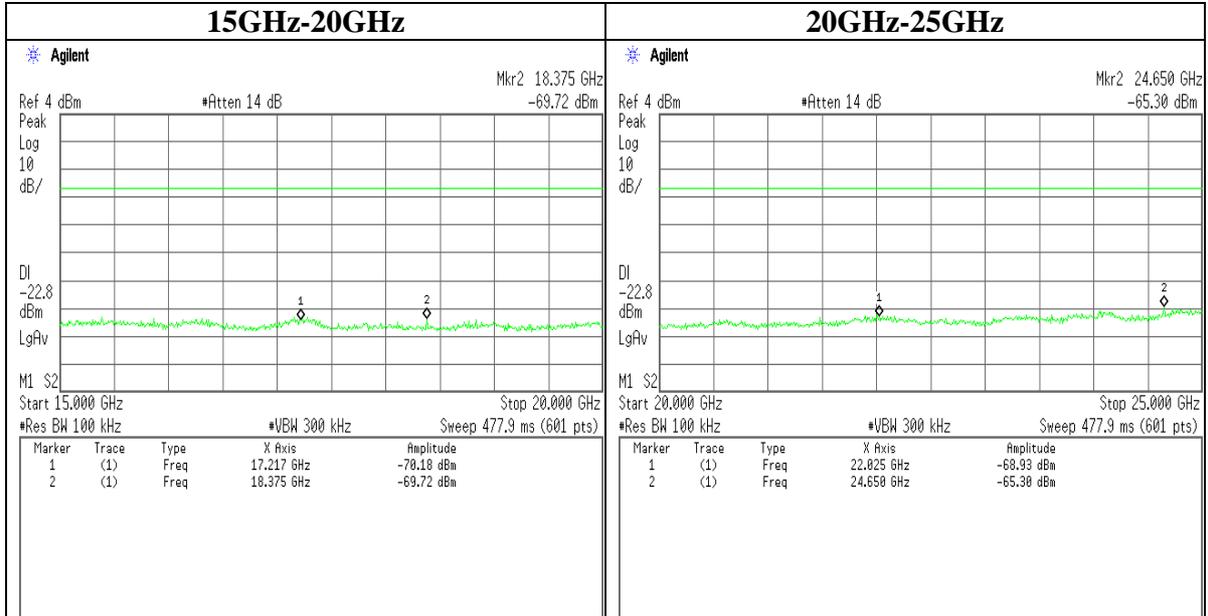
[IEEE802.11g 54Mbps] Ch : High(Main Antenna)



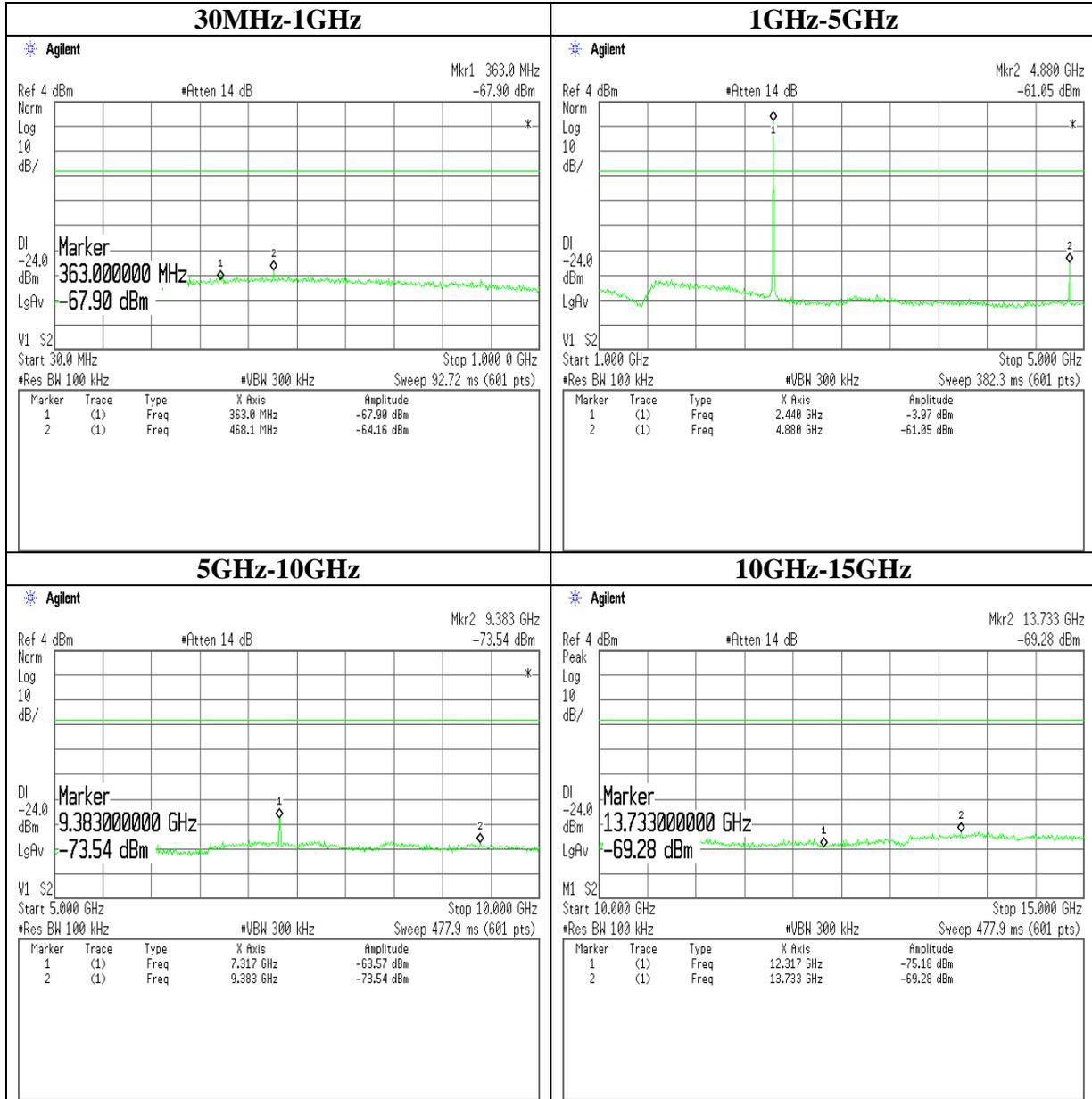
Conducted Spurious Emission(DSSS and other forms of modulation) Receiver
Ch : Low



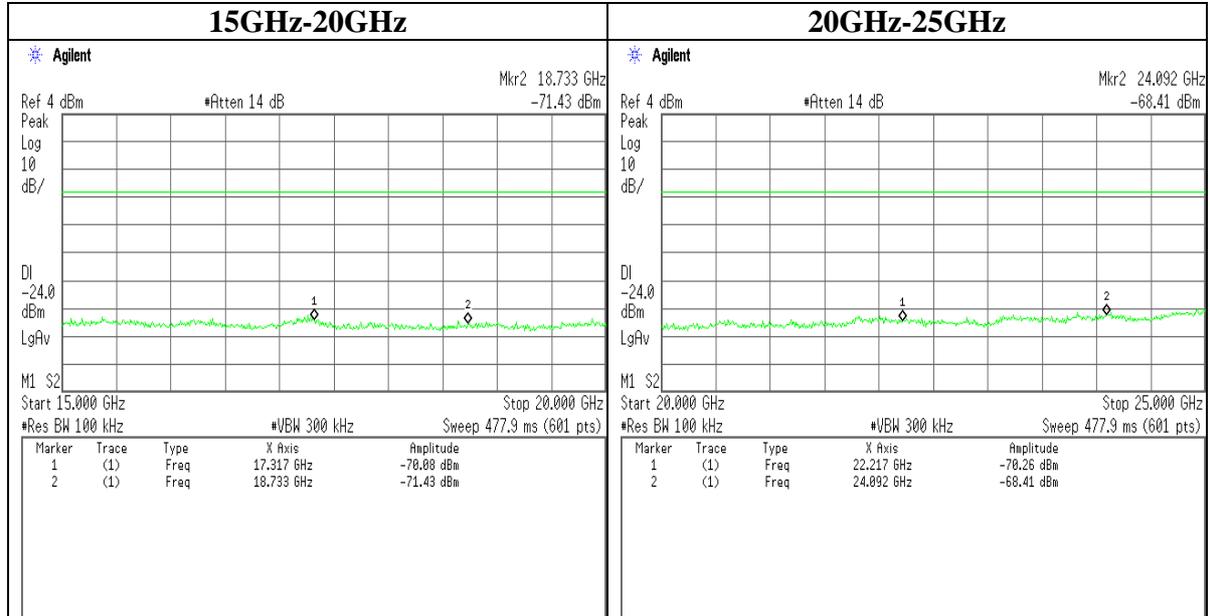
Receiver Ch : Low



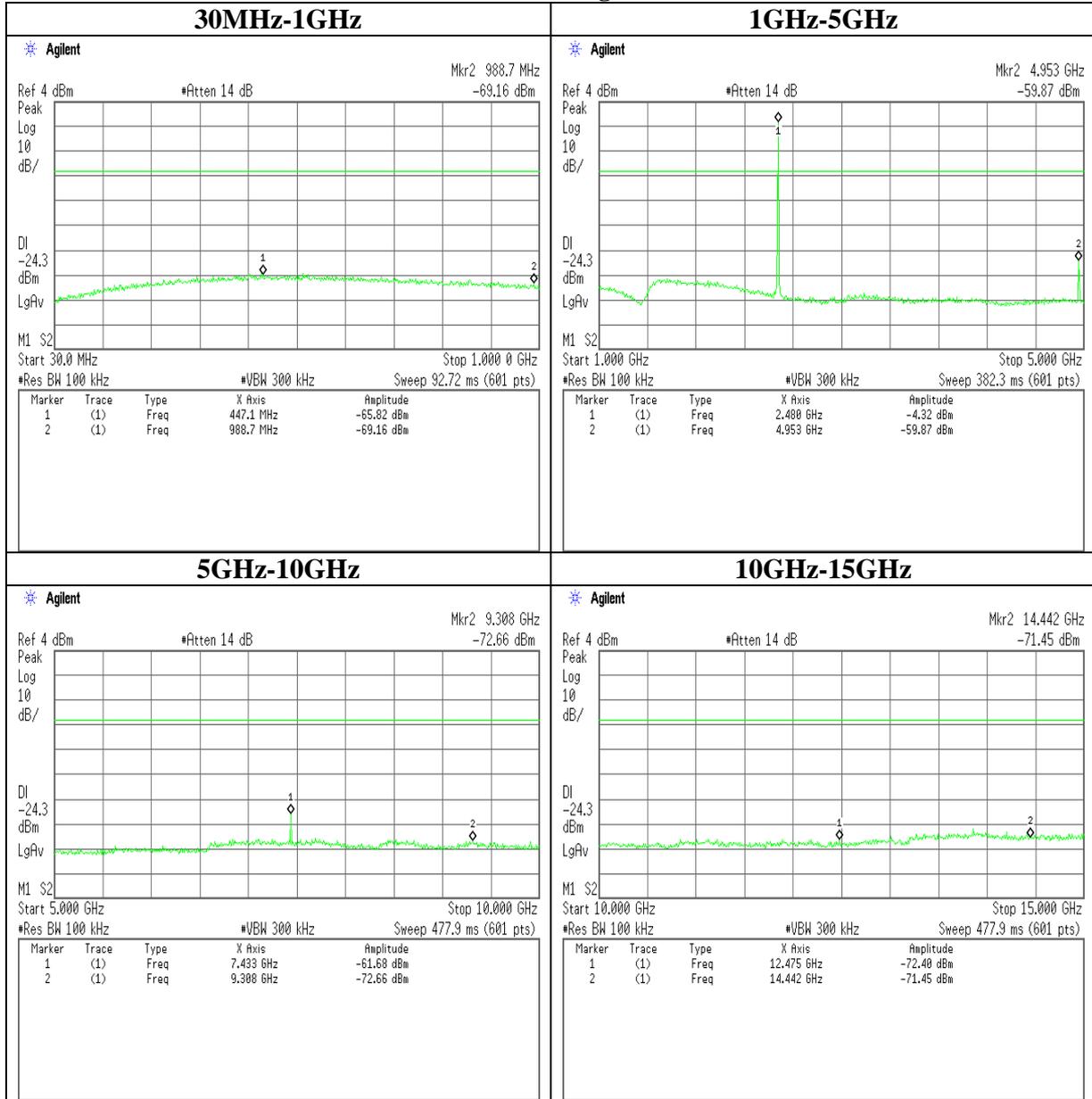
Conducted Spurious Emission(DSSS and other forms of modulation) Receiver
Ch : Mid



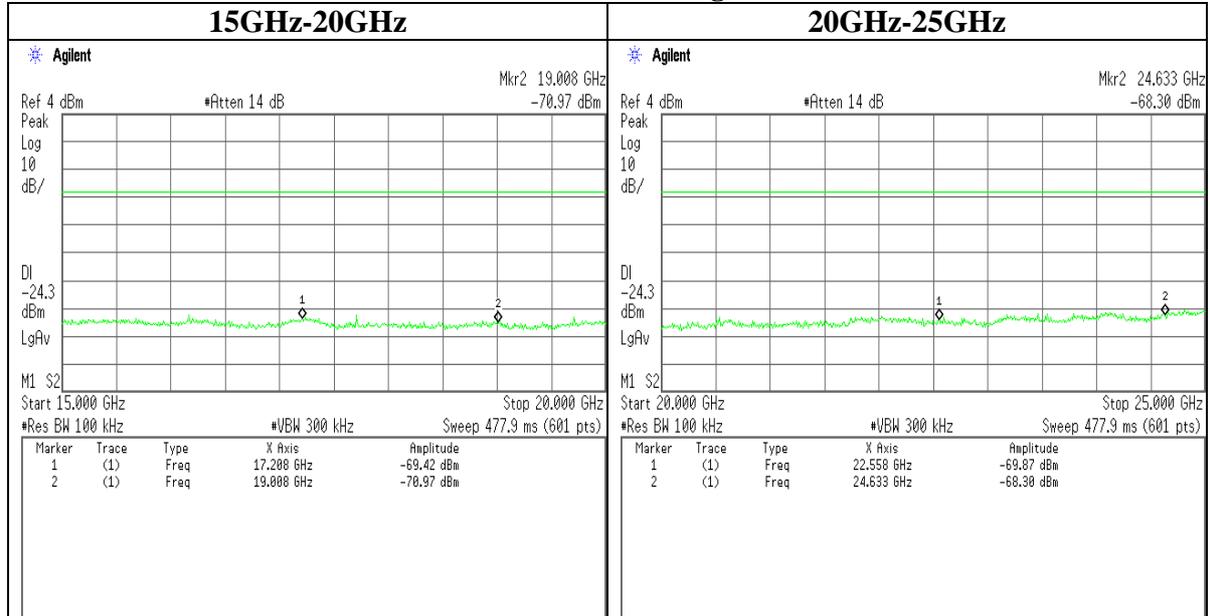
Receiver Ch : Mid



Conducted Spurious Emission(DSSS and other forms of modulation) Receiver
Ch : High

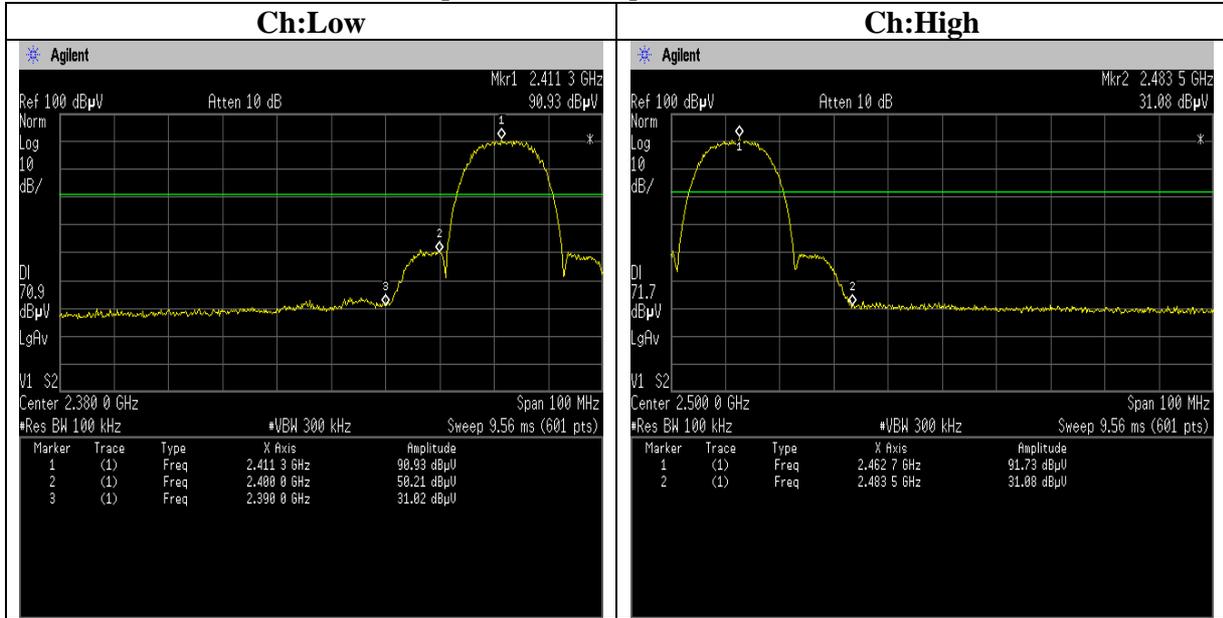


Receiver Ch : High

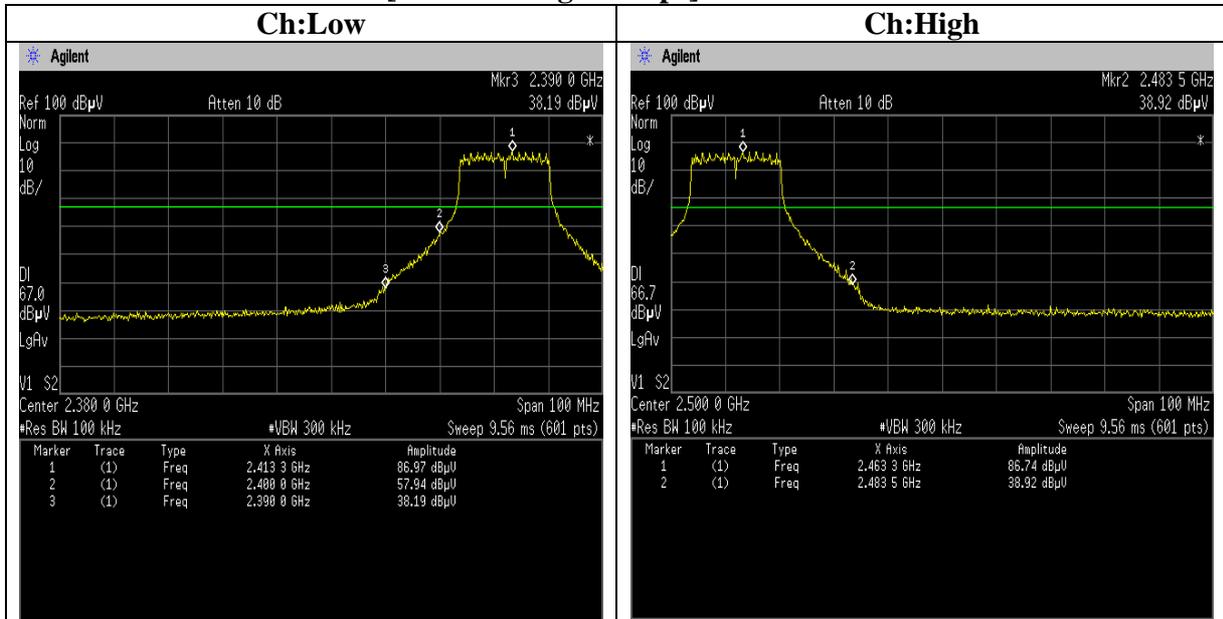


Conducted emission Band Edge compliance (DSSS and other forms of modulation)

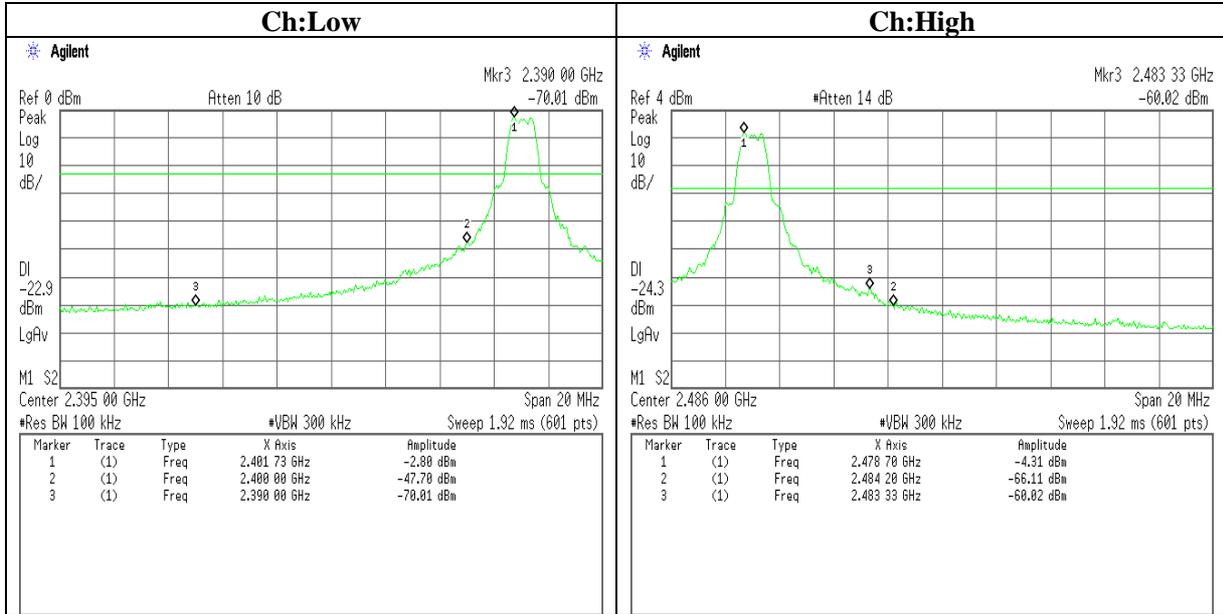
[IEEE802.11b]Main Antenna



[IEEE802.11g 54Mbps]Main antenna



Receiver



Power Density (DSSS and other forms of modulation)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

Company	: Sony Corporation	REPORT NO	: 25BE0202-HO
Equipment	: Personal Computer	REGULATION	: Fcc Part15 Subpart C 15.247(d)
Model	: PCV-E21L	TEST DISTANCE	: -
Sample No.	: 24	DATE	: 07/05/2004 and 10/18/2004
Power	: AC120V/60Hz	TEMPERATURE	: 25deg.C and 23deg.C
Mode	: Tx(ch1,6,11)	HUMIDITY	: 50% and 48%
		ENGINEER	: Hiroka Umeyama and Makoto Kosaka

[IEEE802.11b] Main Antenna

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2412.0	-28.51	2.68	20.00	-5.8	8.0	13.8
Mid	2437.0	-26.82	2.68	20.00	-4.1	8.0	12.1
High	2462.0	-27.75	2.68	20.00	-5.1	8.0	13.1

[IEEE802.11g 54Mbps] Main Antenna

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2412.0	-34.27	2.68	20.00	-11.6	8.0	19.6
Mid	2437.0	-34.81	2.68	20.00	-12.1	8.0	20.1
High	2462.0	-34.41	2.68	20.00	-11.7	8.0	19.7

Receiver

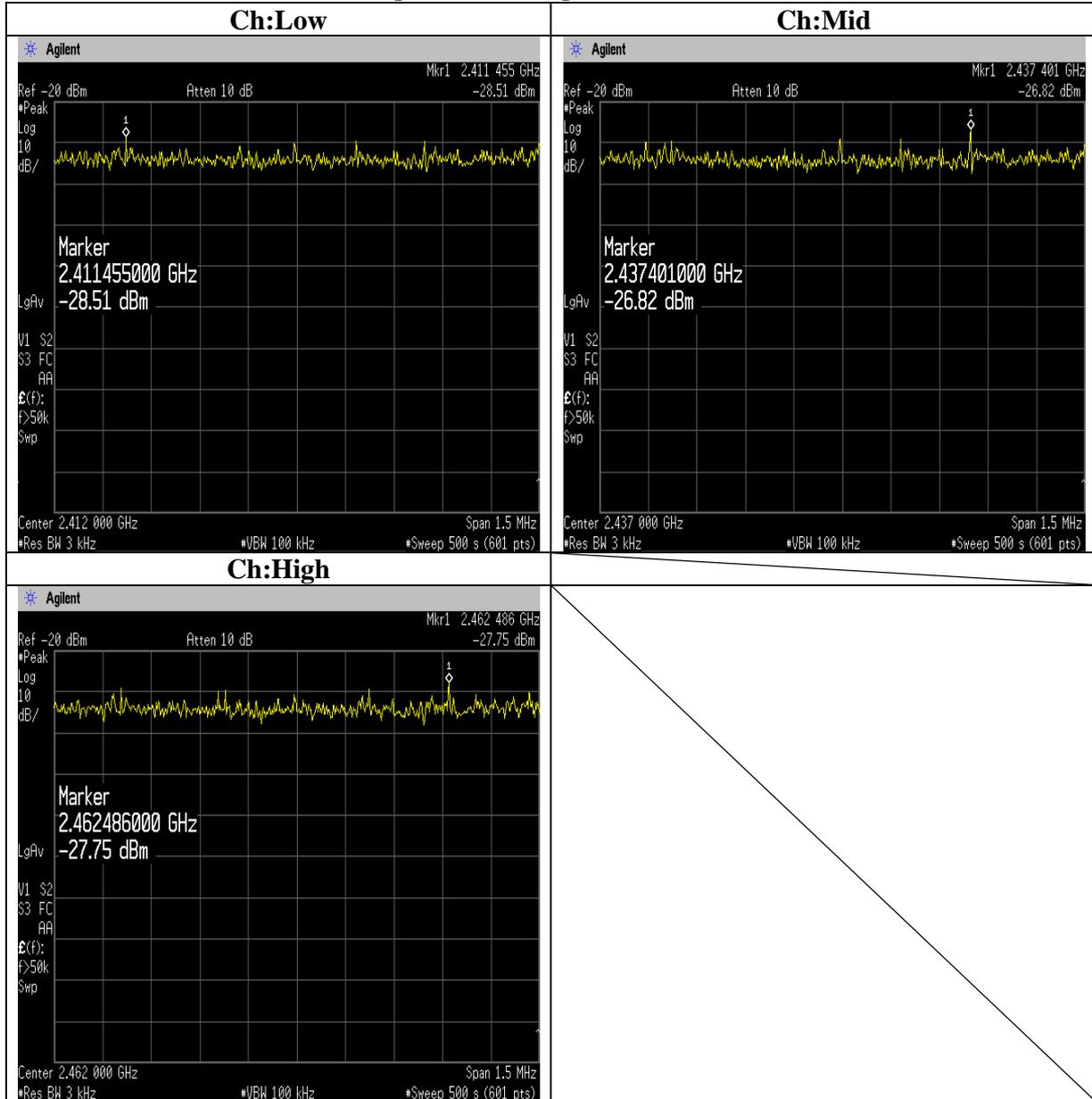
Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2402.0	-11.55	1.13	0.0	-10.4	8.0	18.4
Mid	2440.0	-12.76	1.09	0.0	-11.7	8.0	19.7
High	2479.0	-13.11	1.18	0.0	-11.9	8.0	19.9

Sample Calculation:

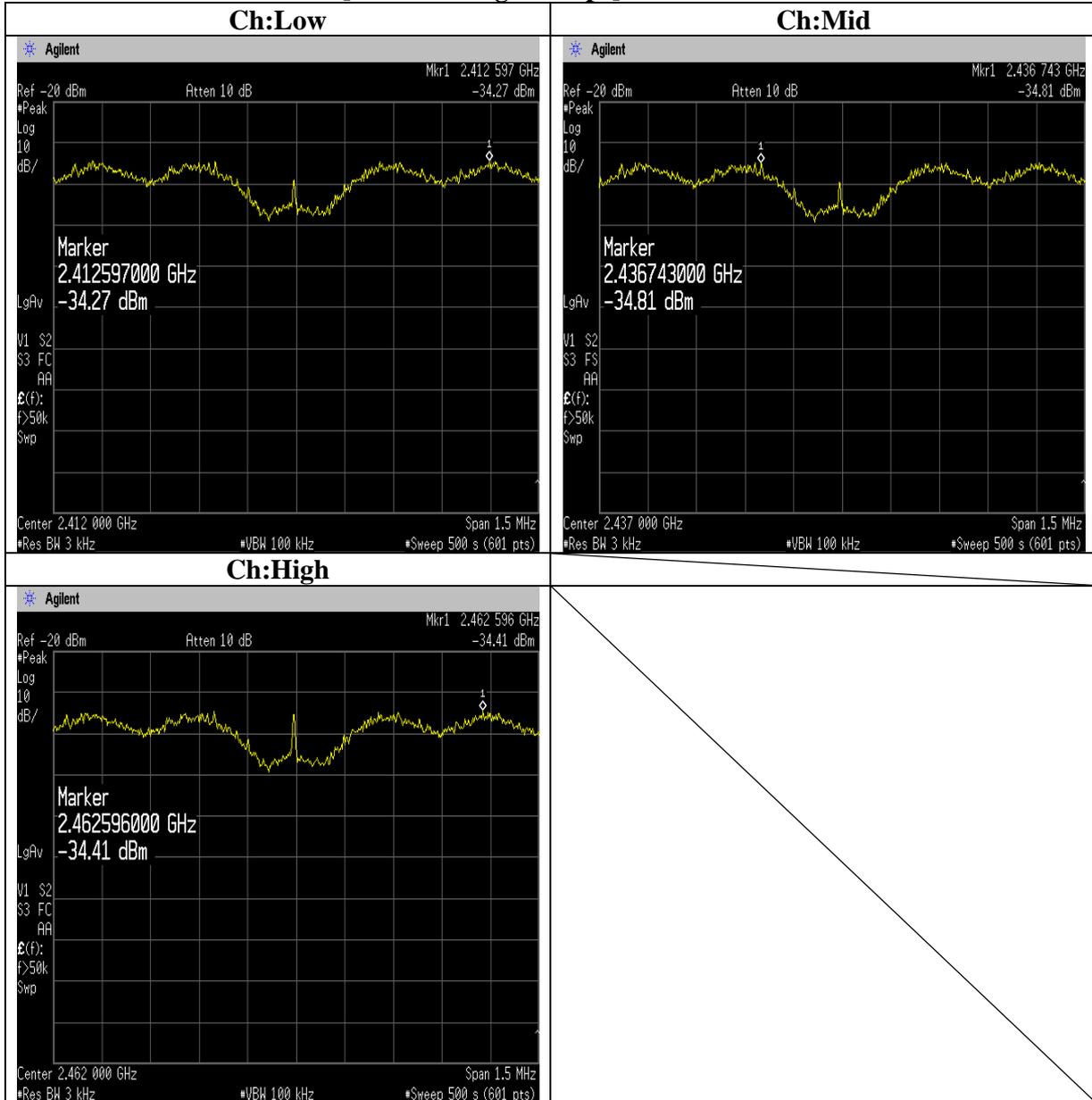
Result = Reading + Cable Loss(customer's Cable) + Attenuator

* Atten. was not used for factor 0.0dB of the above table.

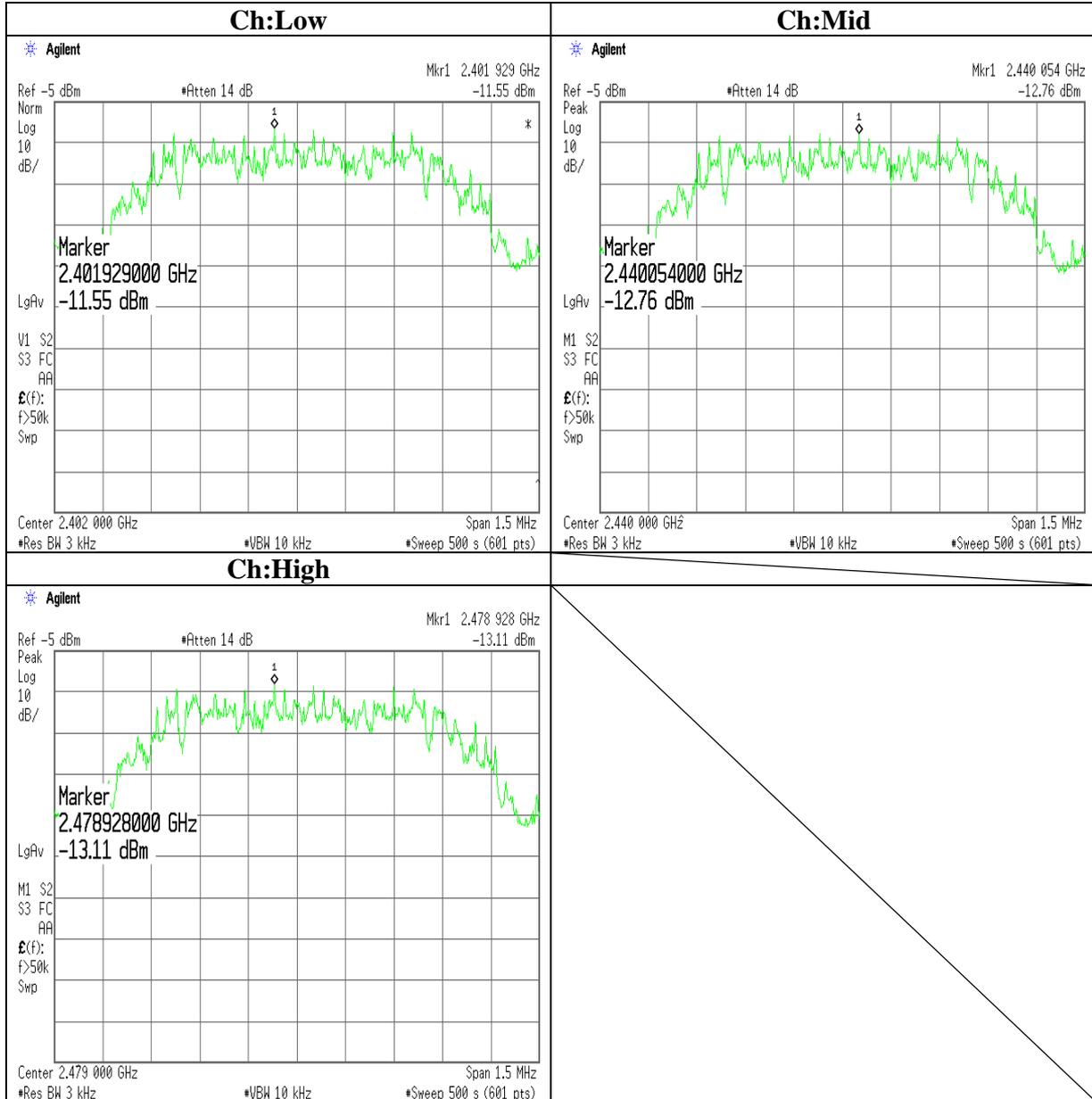
Power Density(DSSS and other forms of modulation)
[IEEE802.11b]Main Antenna



Power Density(DSSS and other forms of modulation)
[IEEE802.11g 54Mbps]Main Antenna

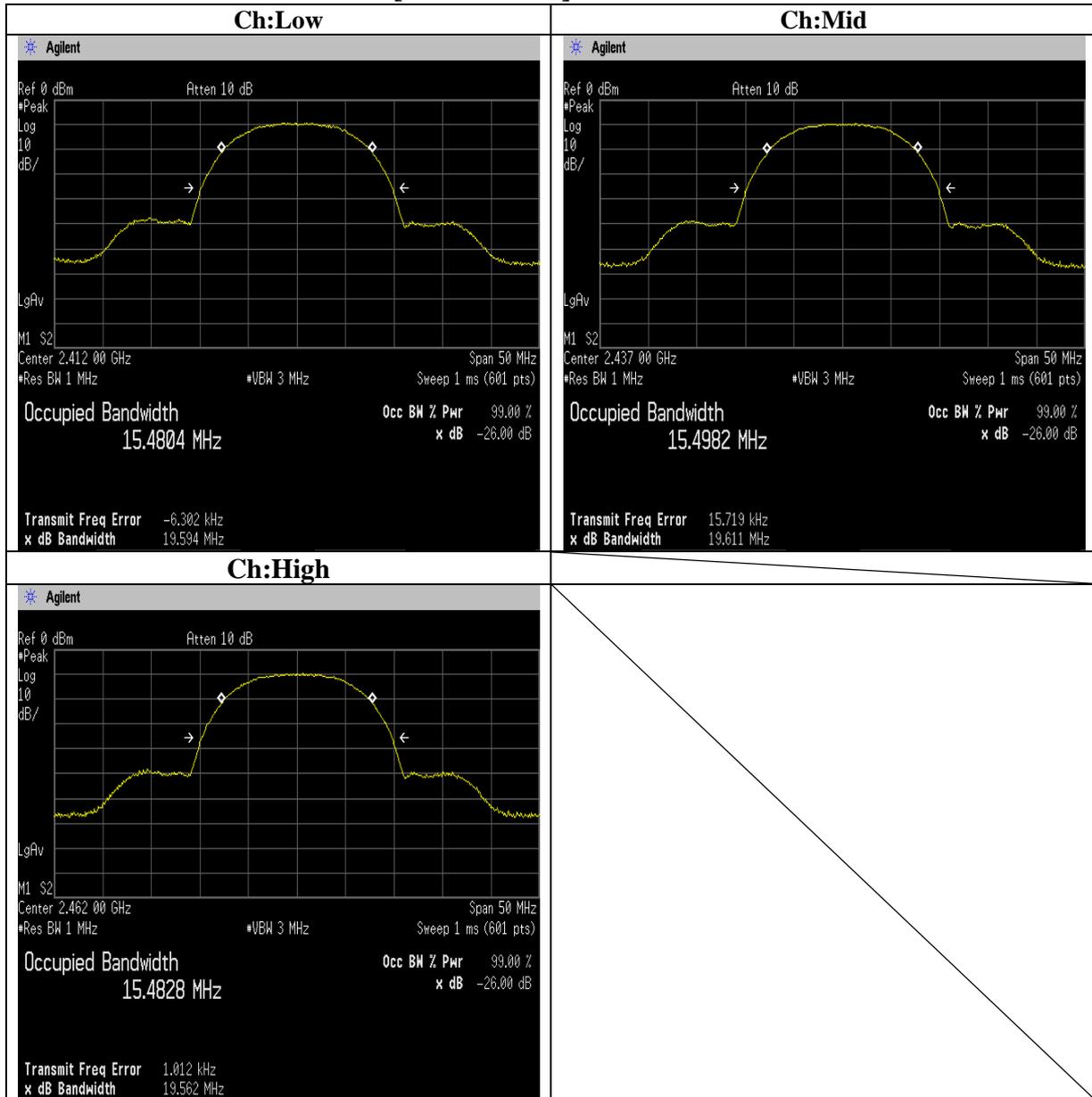


Power Density(DSSS and other forms of modulation) Receiver



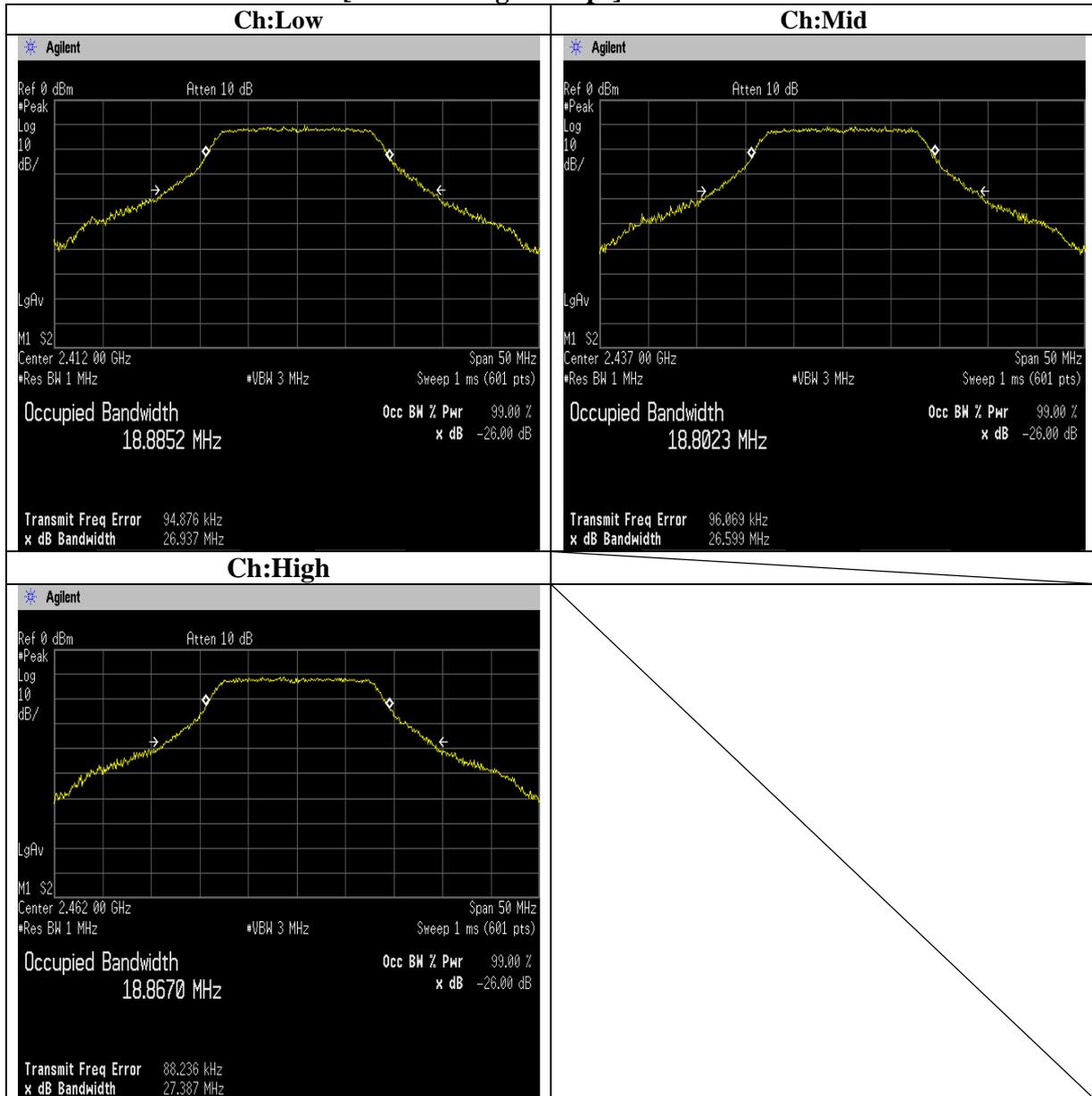
99%Occupied Bandwidth(DSSS and other forms of modulation)

[IEEE802.11b]Main Antenna



99% Occupied Bandwidth(DSSS and other forms of modulation)

[IEEE802.11g 54Mbps]Main Antenna



99% Occupied Bandwidth(DSSS and other forms of modulation)
Receiver

