

APPENDIX 2: Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MCC-27	Microwave Cable 1G-40GHz	Suhner	SUCOFLEX101	AT	2005/08/30 * 12
MAT-24	Attenuator(10dB)(above1GHz)	Agilent	8493C	AT	2005/06/03 * 12
MCC-26	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	AT	2005/08/30 * 12
MAT-23	Attenuator(10dB)(above1GHz)	Orient Microwave	BX10-0476-00	AT	2006/03/18 * 12
MSA-07	Spectrum Analyzer	Agilent	E4408B	AT	2006/03/24 * 12
MOS-12	Thermo-Hygrometer	Custom	CTH-180	AT	2006/01/19 * 24
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE/AT	2006/03/03 * 12
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/01/29 * 12
MLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2006/01/29 * 12
MAT-30	Attenuator(6dB)	TME	UFA-01	RE	2006/03/11 * 12
MPA-13	Pre Amplifier	SONOA INSTRUMENT	310	RE	2006/03/25 * 12
MCC-51	Coaxial cable	UL Apex	-	RE	2006/03/11 * 12
MRENT-23	Spectrum Analyzer	Advantest	R3273	RE/CE	2006/01/10 * 12
TR-07	Test Receiver	Rohde & Schwarz	ESCS30	RE/CE	2005/09/14 * 12
MHA-05	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2006/01/09 * 12
MHA-01	Horn Antenna	EMCO	3160-09	RE	2006/01/09 * 12
MAT-25	Attenuator(10dB)(above1GHz)	Agilent	8493C	RE	2005/06/03 * 12
MHF-05	High Pass Filter	Tokimec	TF323DCA	RE	2006/01/24 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	RE	2006/03/27 * 12
MCC-56	Microwave Cable	Suhner	SUCOFLEX101 / SUCOFLEX104	RE	2006/04/01 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	RE	2006/02/11 * 12
MBF-03	SHF Bandpass Filter	M-City	13GHz BPF	RE	2005/05/20 * 12
MOS-04	Digital Humidity Indicator	N.T	NT-1800	AT	2004/11/25 * 24
MHA-04	Horn Antenna	EMCO	3160-10	RE	2006/01/09 * 12
MCC-27	Microwave Cable 1G-40GHz	Suhner	SUCOFLEX101	RE	2005/08/30 * 12
MCC-22	Microwave Cable 1G-40GHz	Storm	421-011 (90-011-080)	RE	2005/04/29 * 12
MPA-03	Microwave System Power Amplifier	Agilent	83050A	RE	2005/05/11 * 12
MHA-02	Horn Antenna	EMCO	3160-09	RE	2006/01/09 * 12
MCC-53	Microwave Cable	Suhner	SUCOFLEX101	RE	2006/04/01 * 12
MPA-01	Pre Amplifier	Agilent	8449B	RE	2006/02/09 * 12
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	CE	2006/04/10 * 12
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2006/02/06 * 12
MCC-13	Coaxial Cable	Fujikura/Agilent	-	CE	2006/02/23 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	CE	2006/03/04 * 12
MRENT-26	Spectrum Analyzer	Advantest	R3273	CE	2006/02/15 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	CE/RE	2004/11/25 * 24
MSA-03	Spectrum Analyzer	Agilent	E4448A	AT/RE	2005/09/16 * 12

All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Test Item:

CE: AC Main Conducted Emission

RE: Radiated Spurious Emission

AT: Antenna Terminal Conducted Spurious Emission, Maximum Peak Output Power Carrier Frequency Separation, 20dB Bandwidth

Number of Hopping Frequency, Dwell time, 6dB Bandwidth, Peak Output Power Density

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MF060b(01.06.05)

APPENDIX 3: Data of EMI test

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/04/11 10:57:23

Company : Sony Corporation Report No. : 26HE0320-HO
Kind of EUT : Personal Computer Power : AC 120V / 60Hz
Model No. : PCG-4H2L Temp./Humi. : 24deg. C / 52%
Serial No. : XTA1-17 Operator : Makoto Kosaka

Mode / Remarks : Tx 11b 11Mbps 2412MHz Aux + BT Hopping

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

Frequency [MHz]	Reading Level		Corr. Factor [dB]	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.19730	43.7	29.3	0.2	43.9	29.5	63.7	53.7	19.8	24.2	N
0.26310	36.6	---	0.4	37.0	---	61.3	---	24.3	---	N
0.46000	24.6	---	0.4	25.0	---	56.7	---	31.8	---	N
2.88780	22.2	---	0.6	22.8	---	56.0	---	33.2	---	N
5.18500	23.9	---	1.0	24.9	---	60.0	---	35.1	---	N
7.54900	17.3	---	1.2	18.5	---	60.0	---	41.5	---	N
0.19760	43.9	28.7	0.2	44.1	28.9	63.7	53.7	19.6	24.8	L
0.26310	36.8	---	0.4	37.2	---	61.3	---	24.1	---	L
0.46000	24.4	---	0.4	24.8	---	56.7	---	31.9	---	L
2.88780	15.1	---	0.6	15.7	---	56.0	---	40.3	---	L
5.18500	16.6	---	1.0	17.6	---	60.0	---	42.4	---	L
7.54900	13.0	---	1.2	14.2	---	60.0	---	45.8	---	L

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

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/04/11 10:57:23

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-H0
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 52%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11b 11Mbps 2412MHz Aux + BT Hopping

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

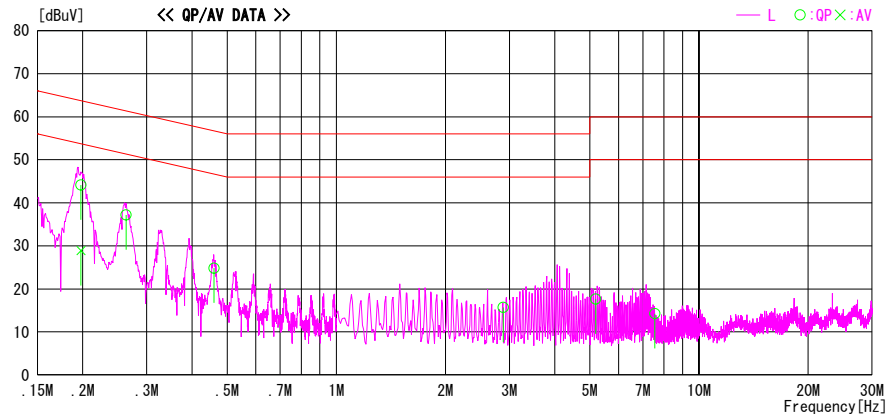
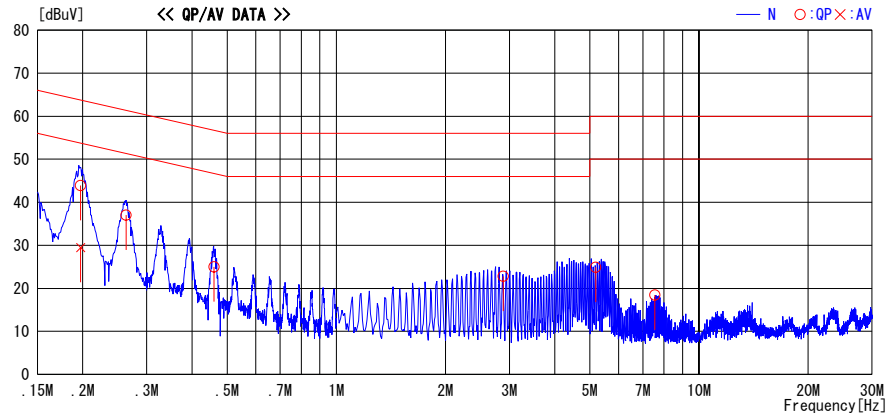


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(L1SN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/04/11 11:05:40

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-H0
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 52%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11b 11Mbps 2437MHz Aux + BT Hopping

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

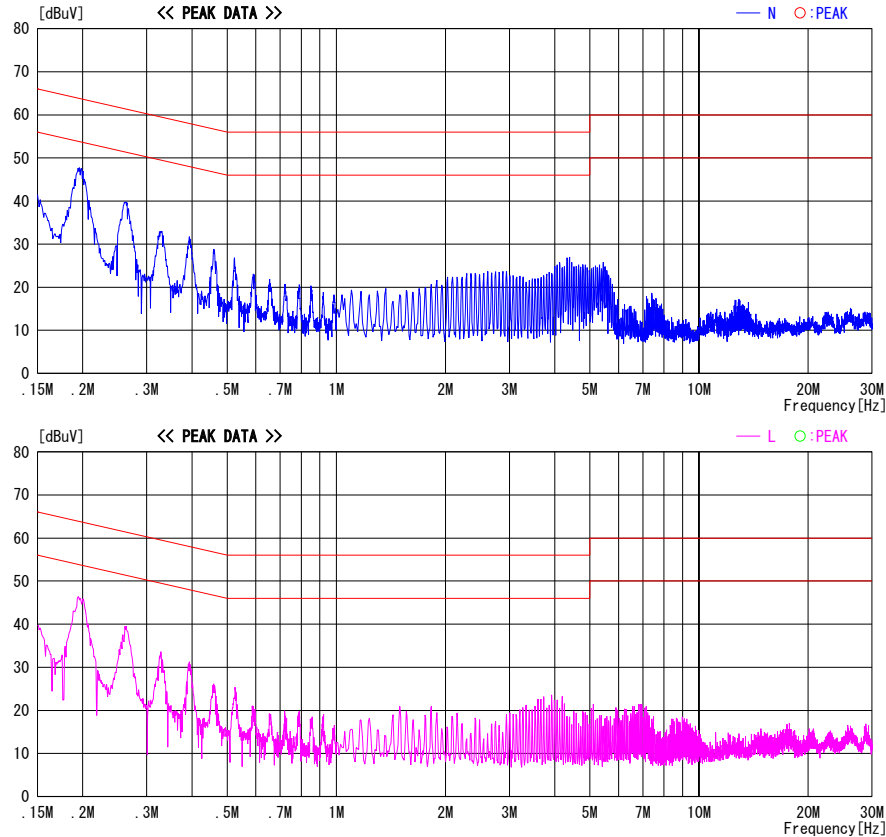


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCULATION:RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/04/11 11:09:29

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-H0
Power : AC 120V / 60Hz
Temp./Humi. : 24deg. C / 52%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11b 11Mbps 2462MHz Aux + BT Hopping

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

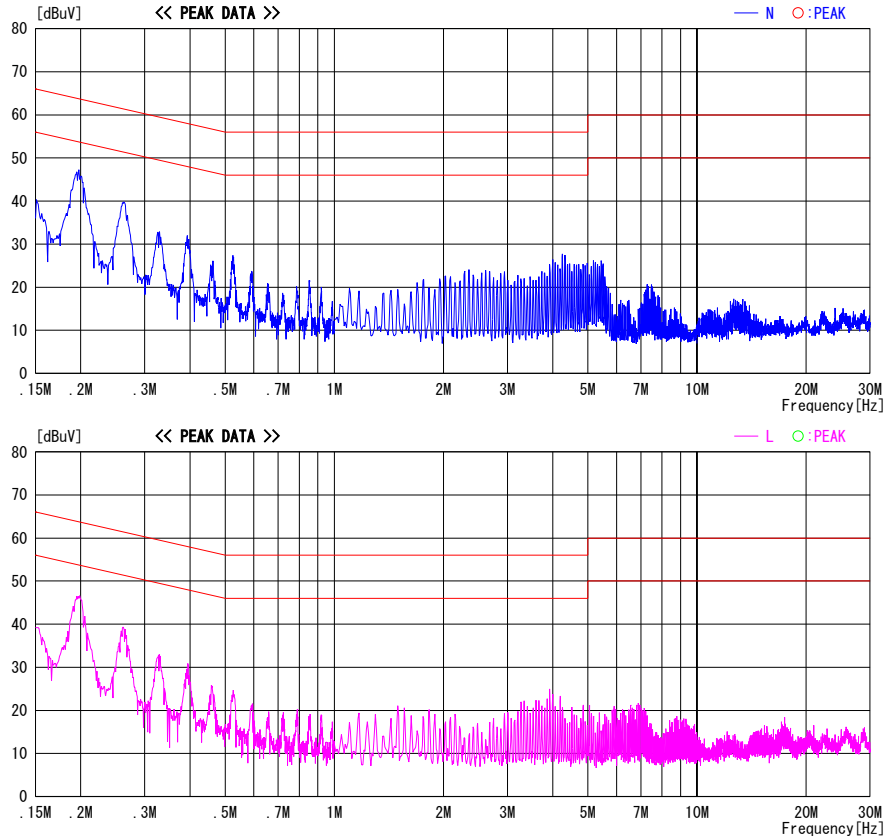


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/04/11 12:57:41

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-H0
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 52%
Operator : Makoto Kosaka

Mode / Remarks : Rx 11b 11Mbps 2437MHz Aux

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

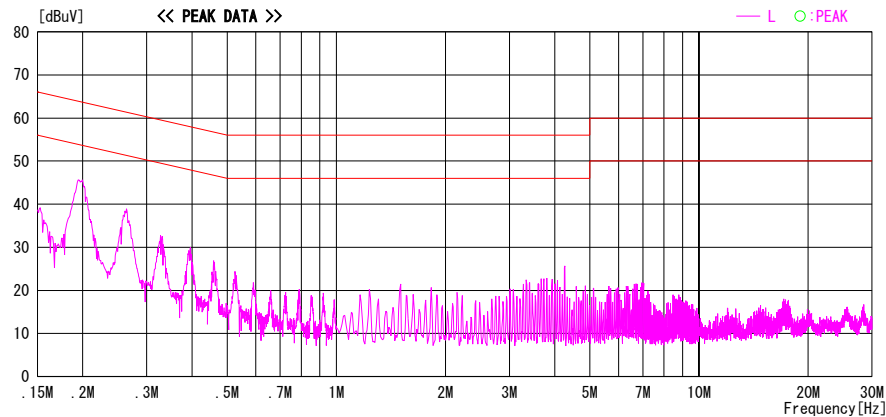
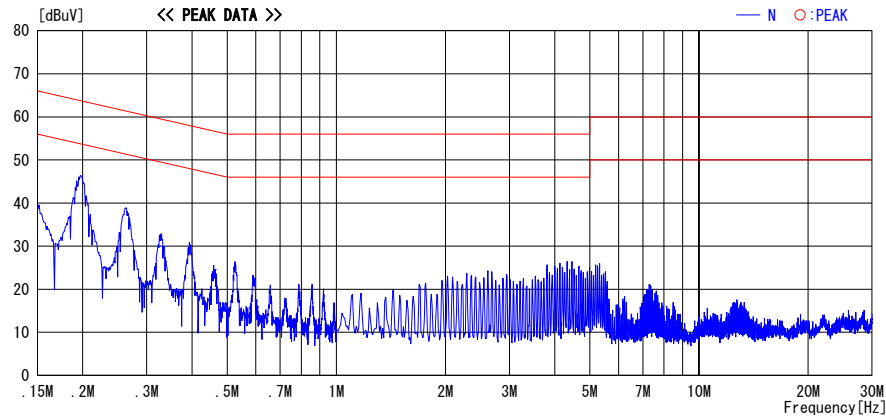


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/04/11 11:19:51

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-H0
Power : AC 120V / 60Hz
Temp./Humi. : 24deg. C / 52%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11g 54Mbps 2412MHz Aux + BT Hopping

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

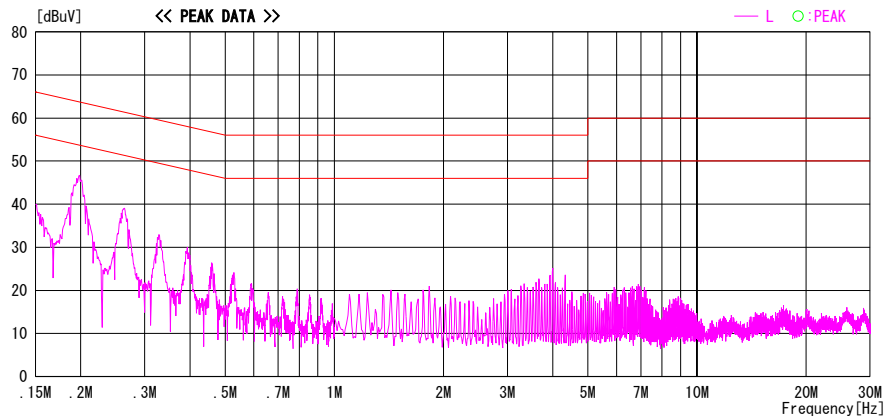
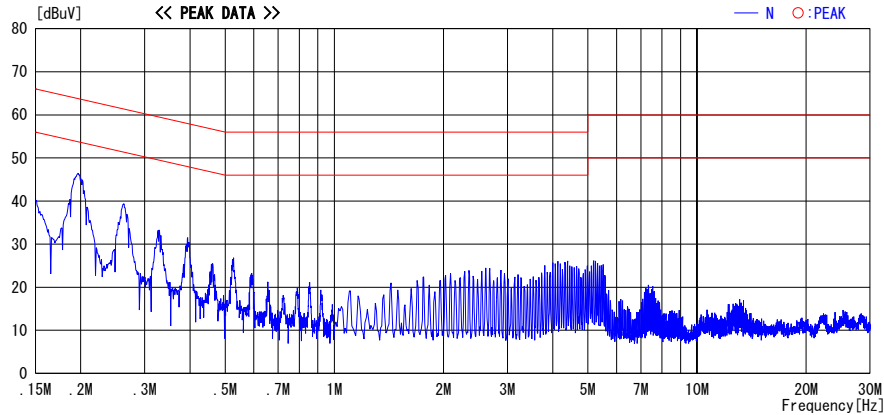


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/04/11 11:28:49

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-H0
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 52%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11g 54Mbps 2437MHz Aux + BT Hopping

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

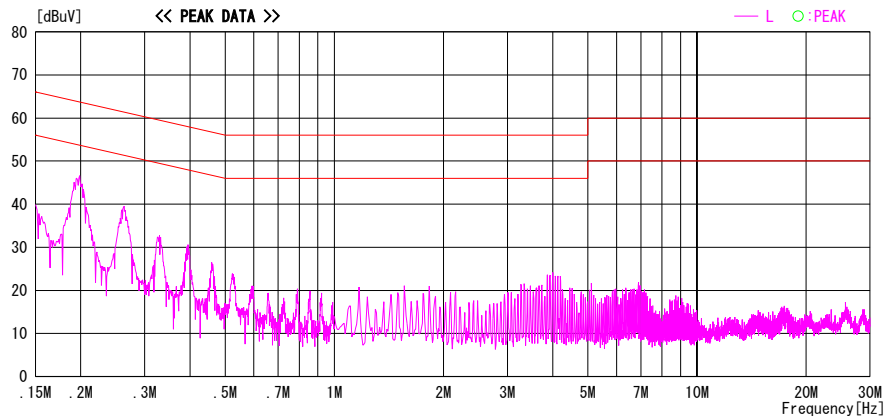
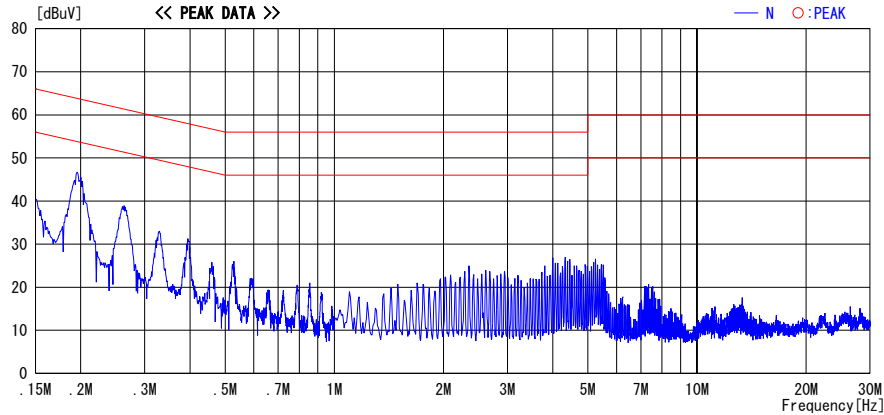


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCULATION:RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/04/11 11:36:54

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-H0
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 52%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11g 54Mbps 2462MHz Aux + BT Hopping

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

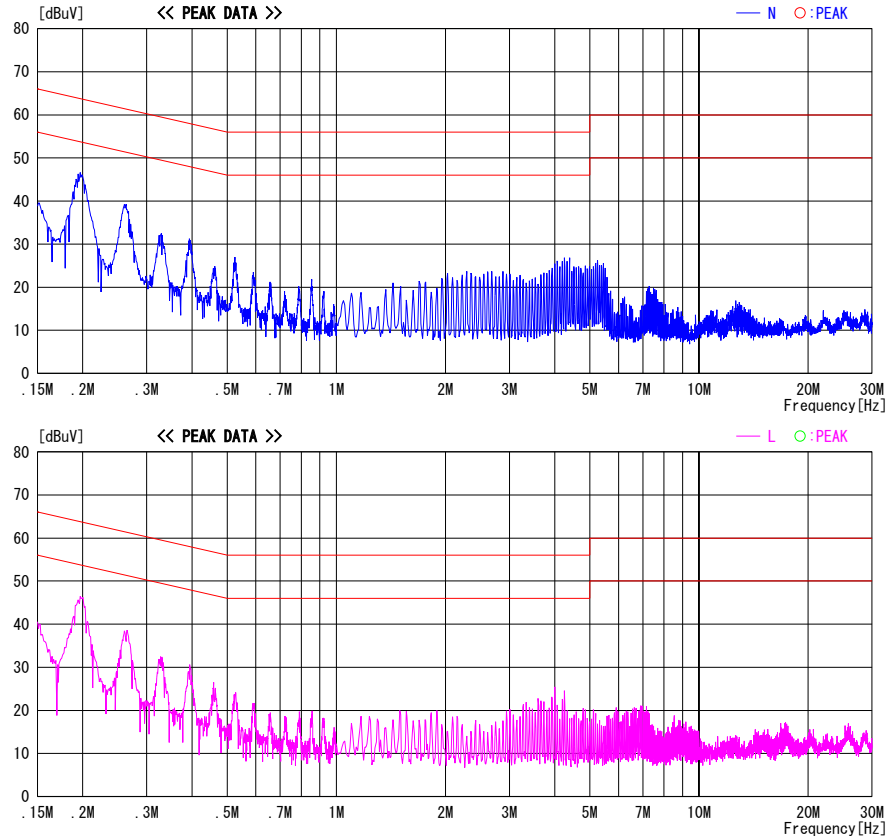


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/04/11 13:02:35

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-H0
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 52%
Operator : Makoto Kosaka

Mode / Remarks : Rx 11g 54Mbps 2437MHz Aux

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

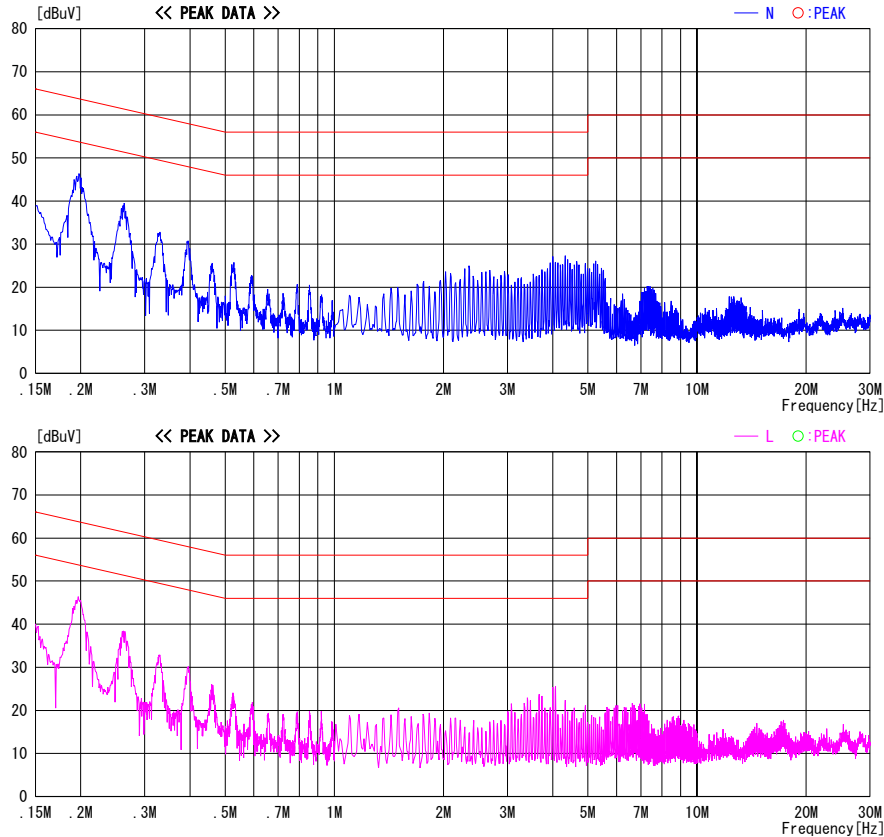


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/04/11 11:59:50

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-H0
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 52%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11a 54Mbps 5745MHz Main + BT Hopping

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

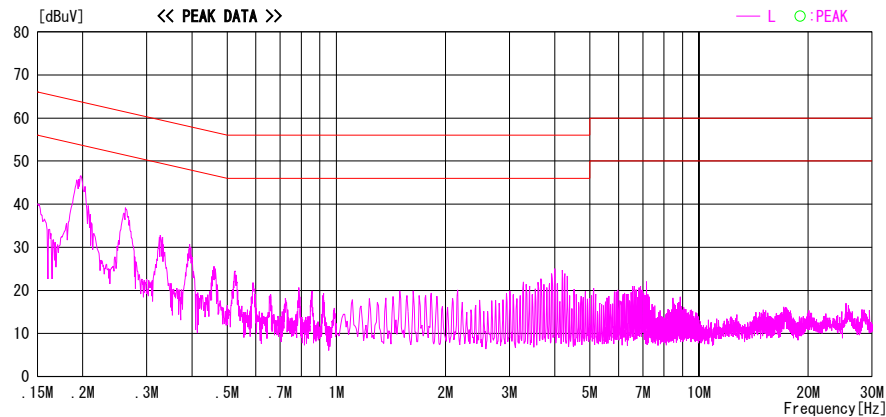
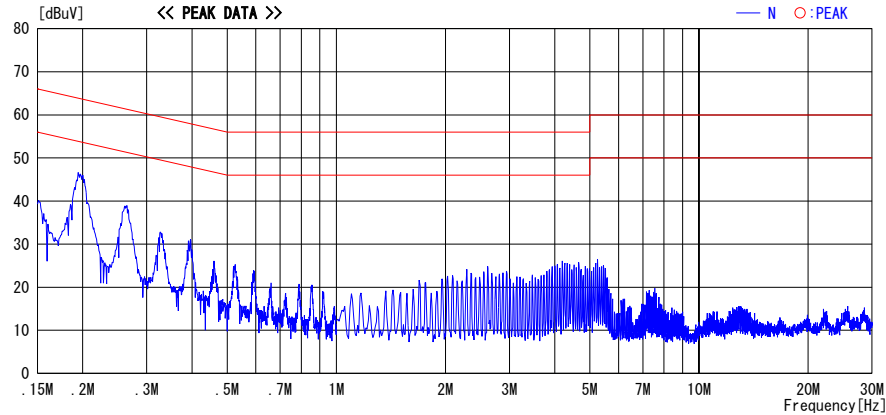


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

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MF060b(01.06.05)

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/04/11 12:13:31

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-H0
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 52%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11a 54Mbps 5765MHz Main + BT Hopping

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

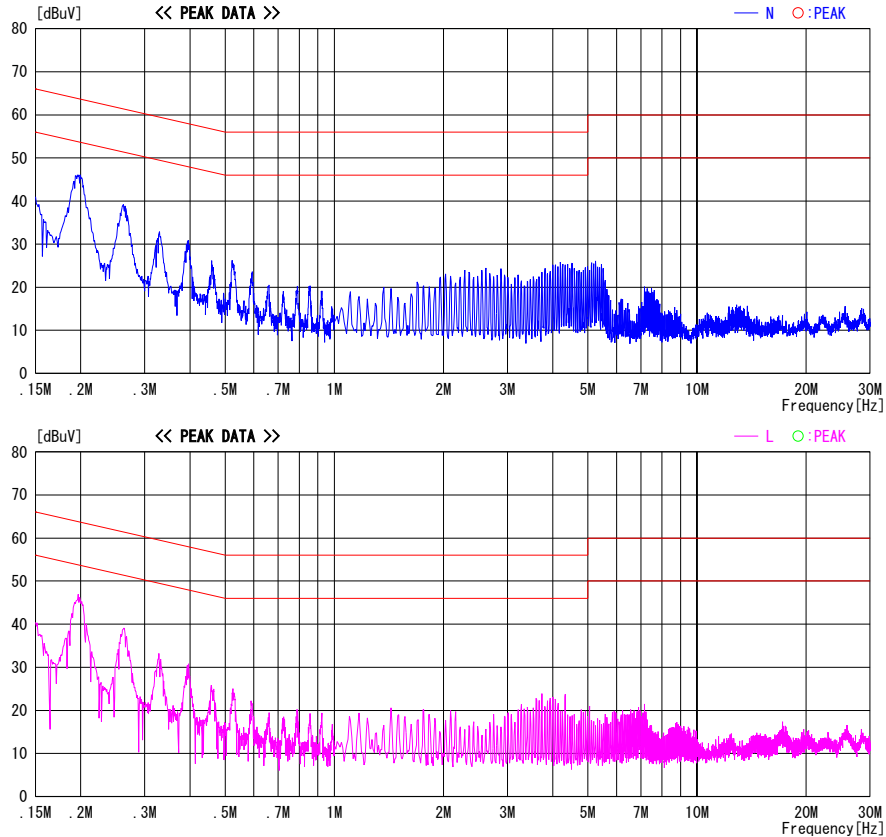


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/04/11 12:17:45

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-H0
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 52%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11a 54Mbps 5825MHz Main + BT Hopping

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

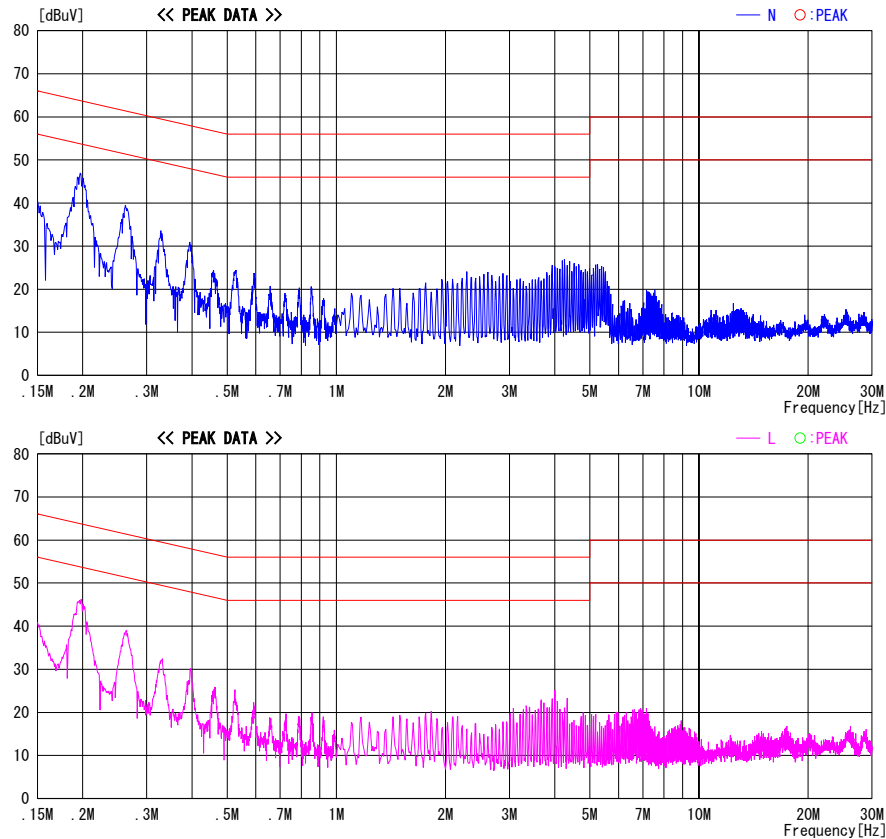


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/04/11 12:45:30

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-H0
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 52%
Operator : Makoto Kosaka

Mode / Remarks : Rx 11a 54Mbps 5765MHz Main

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

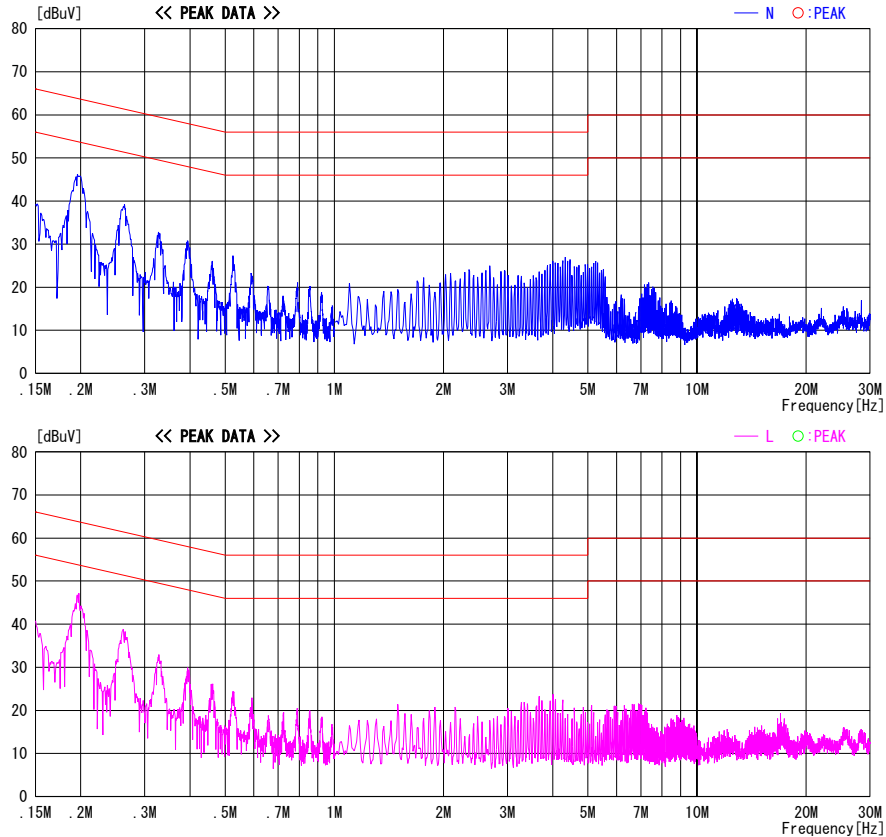


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

UL Apex Co., Ltd.

Head Office EMC Lab.

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MF060b(01.06.05)

6dB Bandwidth

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

Company : Sony Corporation
Equipment : Notebook Personal Computer
Model : PCG-4H2L
Sample No. : XTA1-15
Power : AC120V/60Hz
Mode : Tx (ch1,6,11)

REPORT NO : 26HE0320-HO
REGULATION : FCC Part15 Subpart C 15.247(a)(2)
TEST DISTANCE : -
DATE : 04/06/2006
TEMPERATURE : 24℃
HUMIDITY : 33%
ENGINEER : Yutaka Yoshida

IEEE802.11b

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	8.539	500.0
Mid	2437.0	8.153	500.0
High	2462.0	8.522	500.0

IEEE802.11g

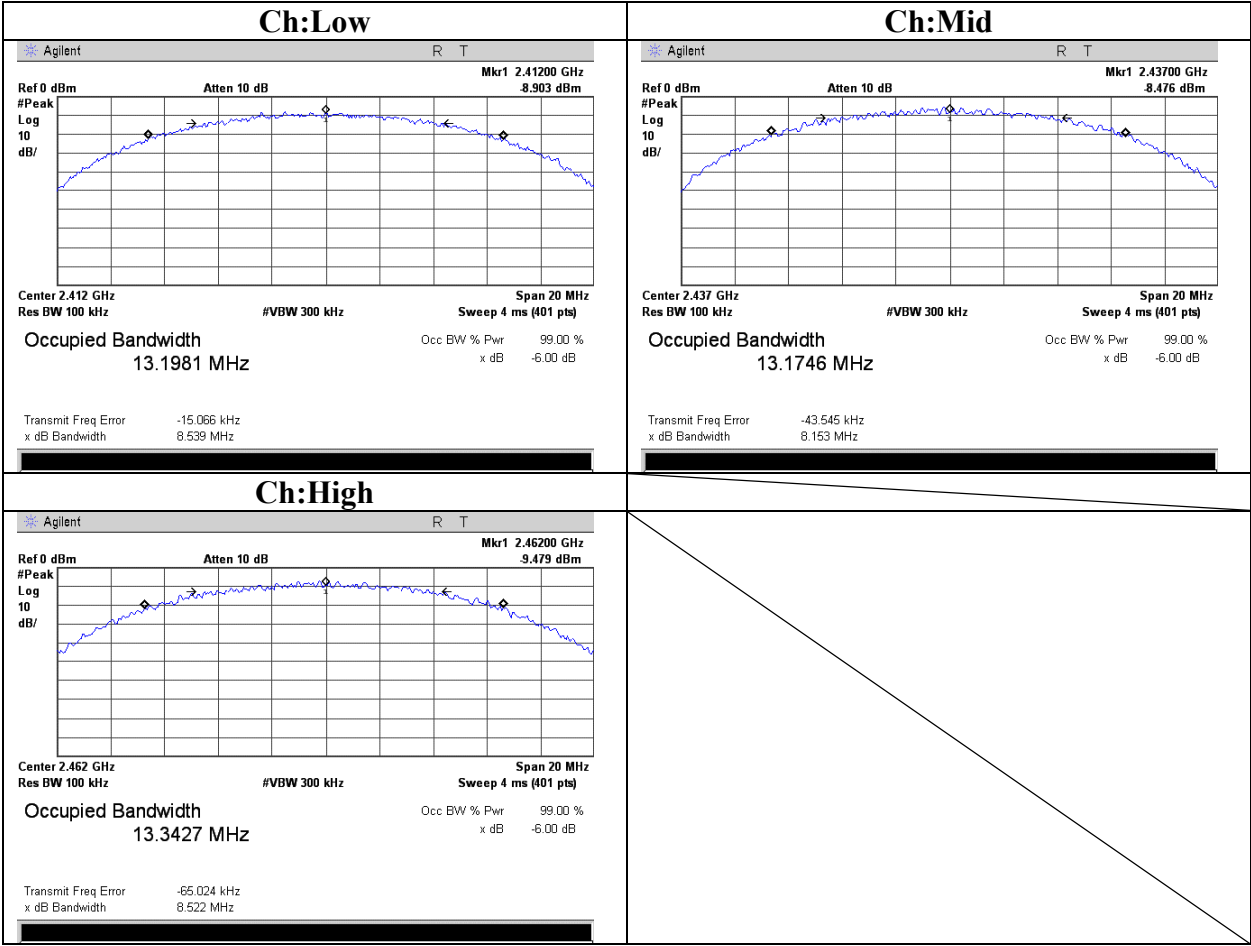
Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	16.527	500.0
Mid	2437.0	16.537	500.0
High	2462.0	16.563	500.0

IEEE802.11a

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	5745.0	16.537	500.0
Mid	5765.0	16.515	500.0
High	5825.0	16.646	500.0

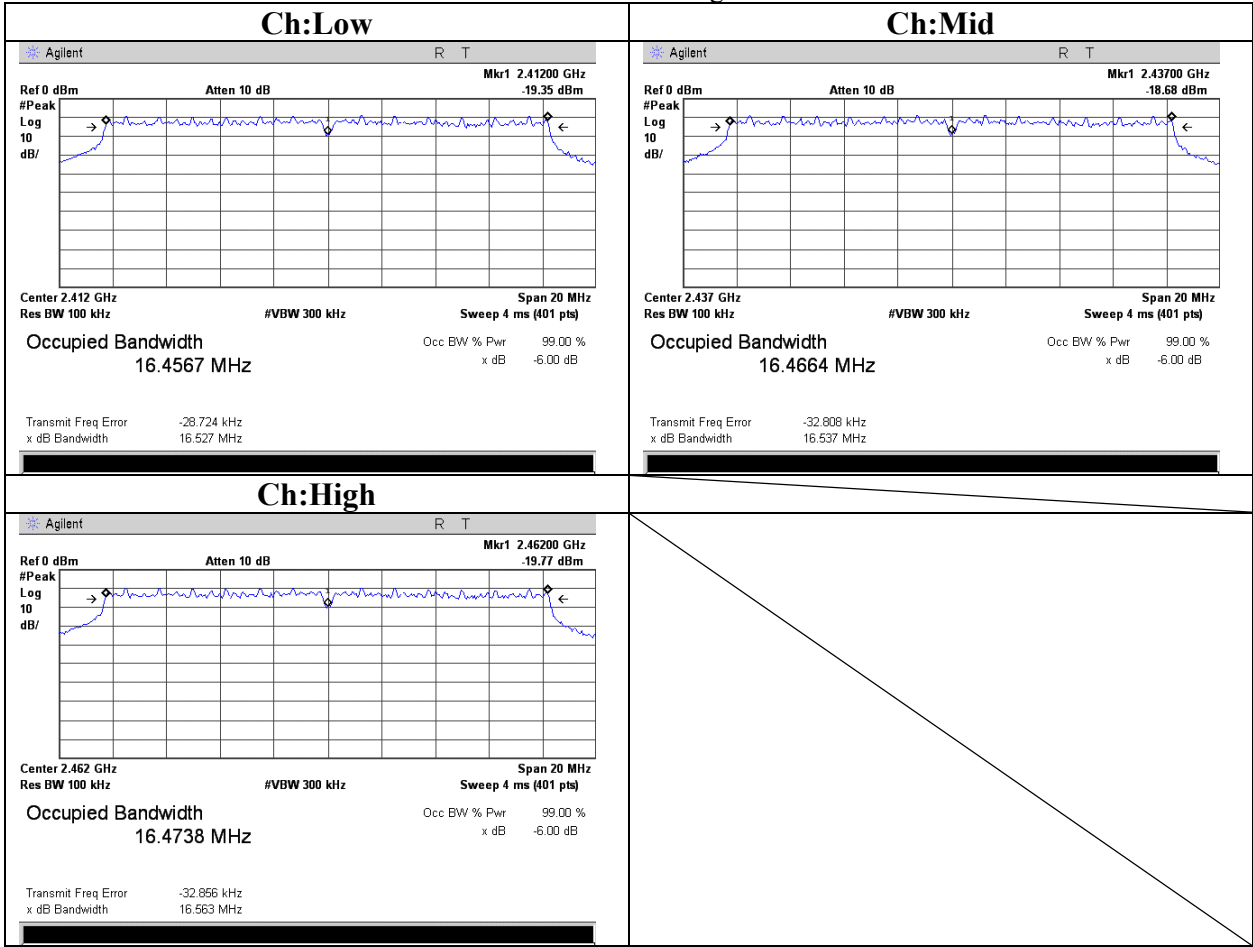
6dB Bandwidth

IEEE802.11b



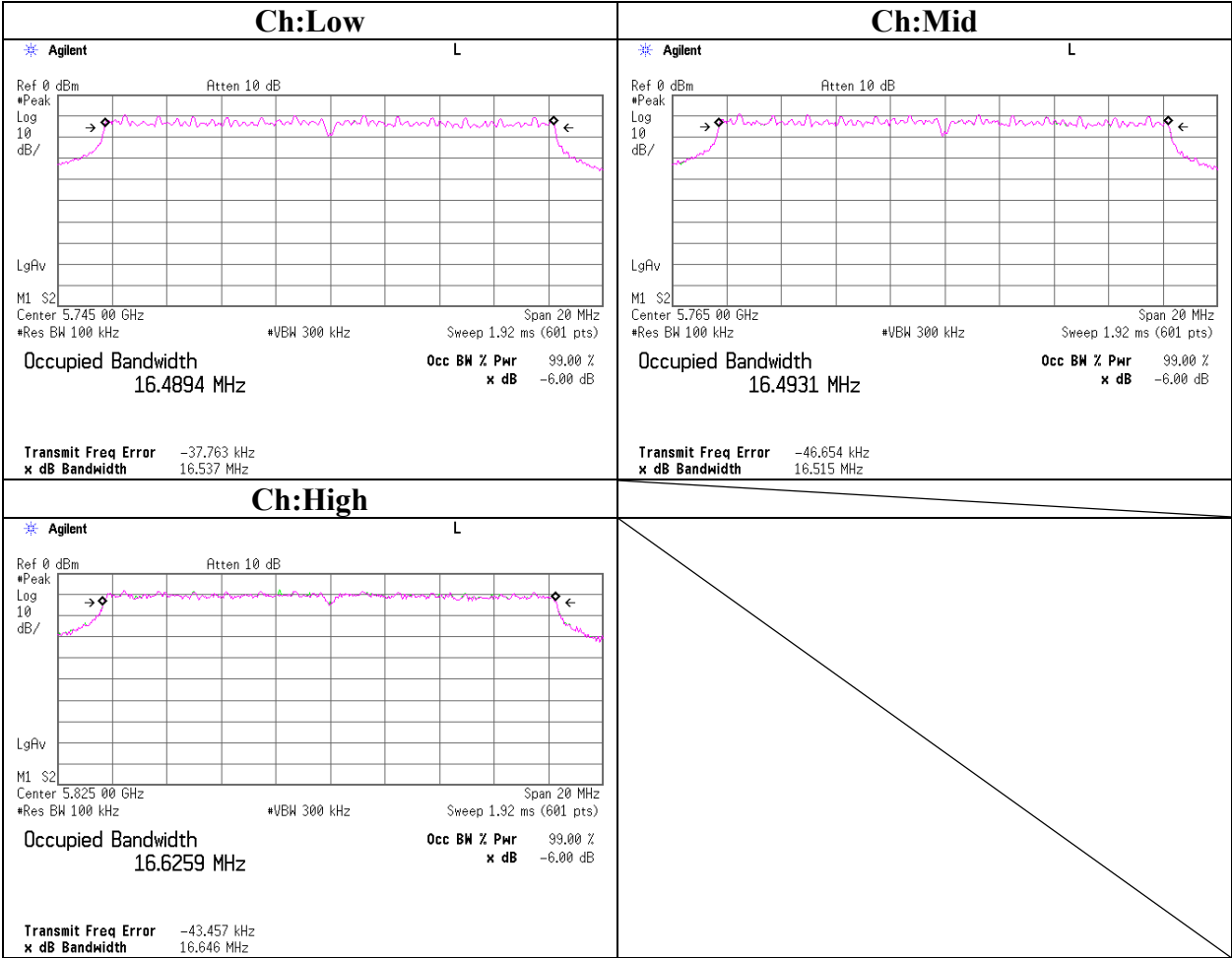
6dB Bandwidth

IEEE802.11g



6dB Bandwidth

IEEE802.11a



Maximum Peak OutPut Power

Company : Sony Corporation
Equipment : Notebook Personal Computer
Model : PCG-4H2L
Sample No. : XTA1-15
Power : AC120V/60Hz
Mode : Tx (Low, Mid, High)

REPORT NO : 26HE0320-HO
REGULATION : FCC Part15 Subpart C 15.247(b)(3)
TEST DISTANCE : -
DATE : 04/06/2006
TEMPERATURE : 24deg.C.
HUMIDITY : 33%
ENGINEER : Yutaka Yoshida

[IEEE802.11b/Main Antenna] [11Mbps]

Ch	Freq.	S/A Reading	Cable Loss	Atten.	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	3.24	2.50	10.00	15.74	37.47	30.00	1000	14.26
Mid	2437.0	3.44	2.50	10.00	15.94	39.25	30.00	1000	14.06
High	2462.0	2.46	2.50	10.00	14.96	31.32	30.00	1000	15.04

[IEEE802.11b/AUX Antenna] [11Mbps]

Ch	Freq.	S/A Reading	Cable Loss	Atten.	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	3.10	2.50	10.00	15.60	36.28	30.00	1000	14.40
Mid	2437.0	3.32	2.50	10.00	15.82	38.19	30.00	1000	14.18
High	2462.0	1.76	2.50	10.00	14.26	26.66	30.00	1000	15.74

Sample Calculation:

Result = Reading + Cable Loss (including customer) + Attenuator

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

UL Apex Co., Ltd.

Head Office EMC Lab.

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MF060b(01.06.05)

Maximum Peak OutPut Power

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

Company : Sony Corporation
Equipment : Notebook Personal Computer
Model : PCG-4H2L
Sample No. : XTA1-15
Power : AC120V/60Hz
Mode : Tx (Low, Mid, High)

REPORT NO : 26HE0320-HO
REGULATION : FCC Part15 Subpart C 15.247(b)(3)
TEST DISTANCE : -
DATE : 04/06/2006
TEMPERATURE : 24deg.C.
HUMIDITY : 33%
ENGINEER : Yutaka Yoshida

[IEEE802.11g/Main Antenna] [54Mbps]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2412.0	2.64	2.50	10.00	15.14	32.67	30.00	1000	14.86
Mid	2437.0	2.99	2.50	10.00	15.49	35.37	30.00	1000	14.51
High	2462.0	1.97	2.50	10.00	14.47	27.99	30.00	1000	15.53

[IEEE802.11g/AUX Antenna] [54Mbps]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2412.0	2.54	2.50	10.00	15.04	31.92	30.00	1000	14.96
Mid	2437.0	2.80	2.50	10.00	15.30	33.92	30.00	1000	14.70
High	2462.0	1.90	2.50	10.00	14.40	27.55	30.00	1000	15.60

Sample Calculation:

Result = Reading + Cable Loss (including customer) + Attenuator

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

UL Apex Co., Ltd.

Head Office EMC Lab.

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MF060b(01.06.05)

Maximum Peak OutPut Power

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

Company : Sony Corporation
Equipment : Notebook Personal Computer
Model : PCG-4H2L
Sample No. : XTA1-15
Power : AC120V/60Hz
Mode : Tx (Low, Mid, High)

REPORT NO : 26HE0320-HO
REGULATION : FCC Part15 Subpart C 15.247(b)(3)
TEST DISTANCE : -
DATE : 04/06/2006
TEMPERATURE : 24deg.C.
HUMIDITY : 33%
ENGINEER : Yutaka Yoshida

[IEEE802.11a/Main Antenna] [54Mbps]

Ch	Freq.	S/A Reading	Cable Loss	Atten.	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Low	5725.0	2.46	3.98	10.00	16.44	44.06	30.00	1000	13.56
Mid	5765.0	2.55	3.98	10.00	16.53	44.96	30.00	1000	13.47
High	5825.0	2.33	3.98	10.00	16.31	42.73	30.00	1000	13.69

[IEEE802.11a/AUX Antenna] [54Mbps]

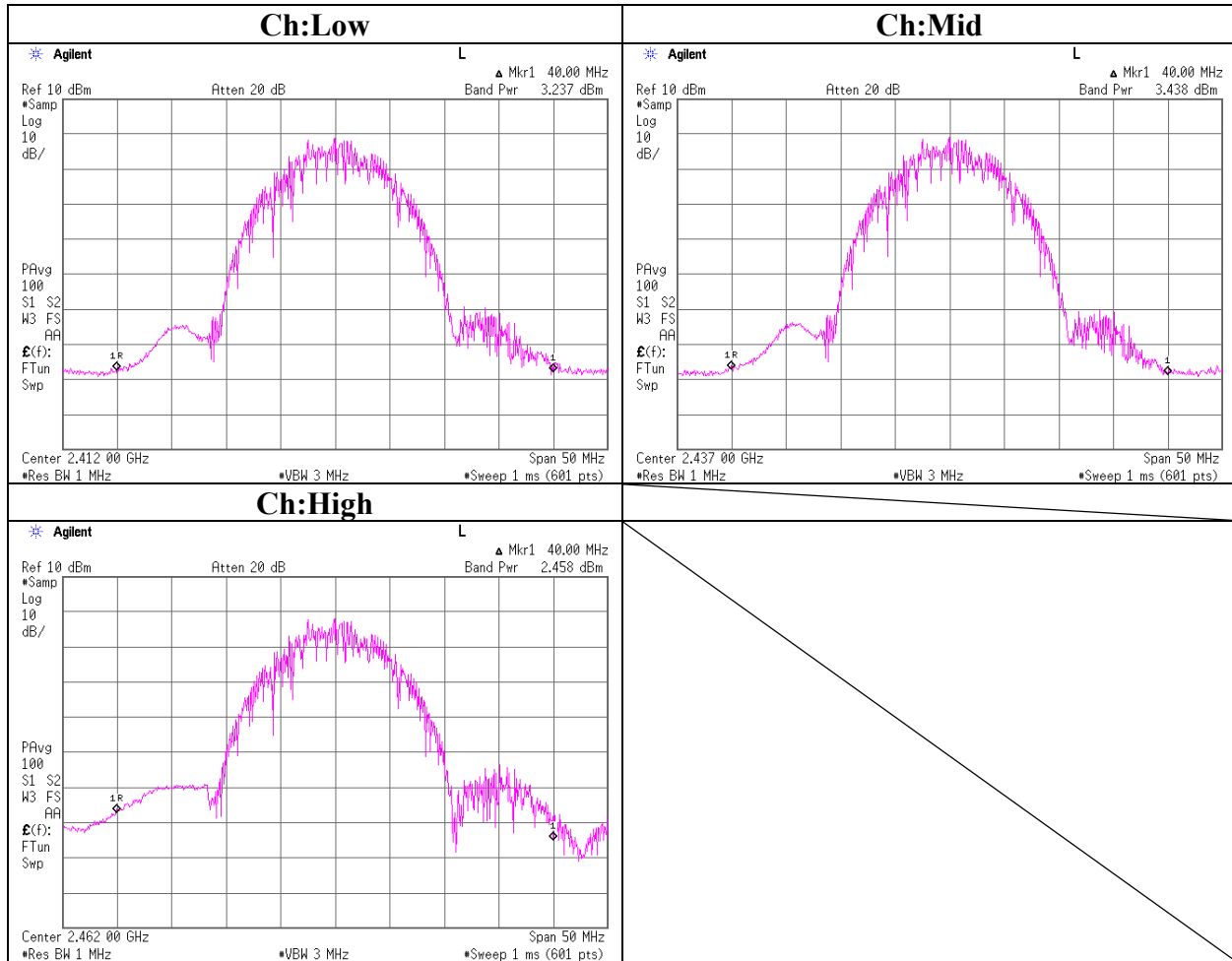
Ch	Freq.	S/A Reading	Cable Loss	Atten.	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
Low	5725.0	2.66	3.98	10.00	16.64	46.16	30.00	1000	13.36
Mid	5765.0	1.92	3.98	10.00	15.90	38.88	30.00	1000	14.10
High	5825.0	2.60	3.98	10.00	16.58	45.45	30.00	1000	13.43

Sample Calculation:

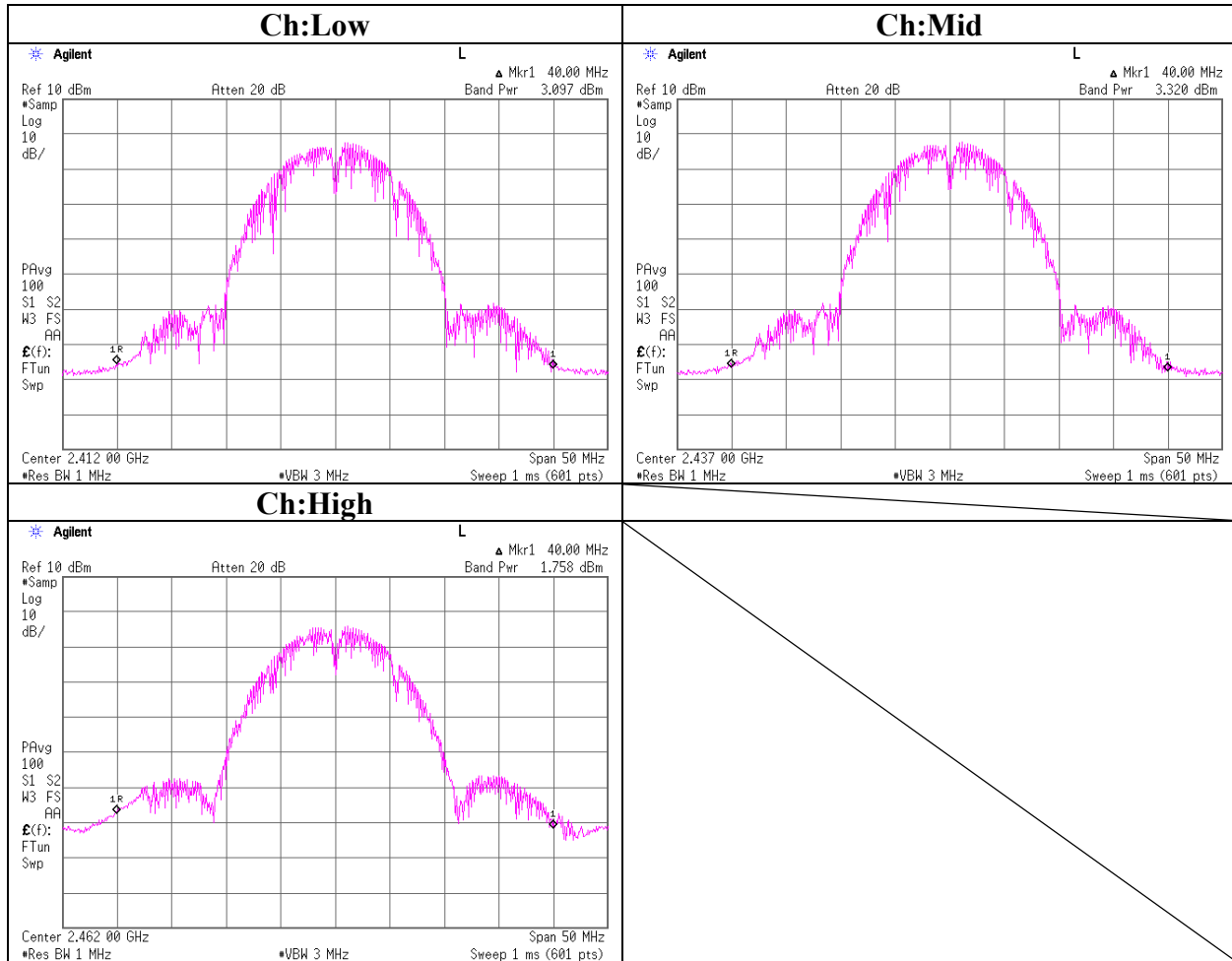
Result = Reading + Cable Loss (including customer) + Attenuator

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

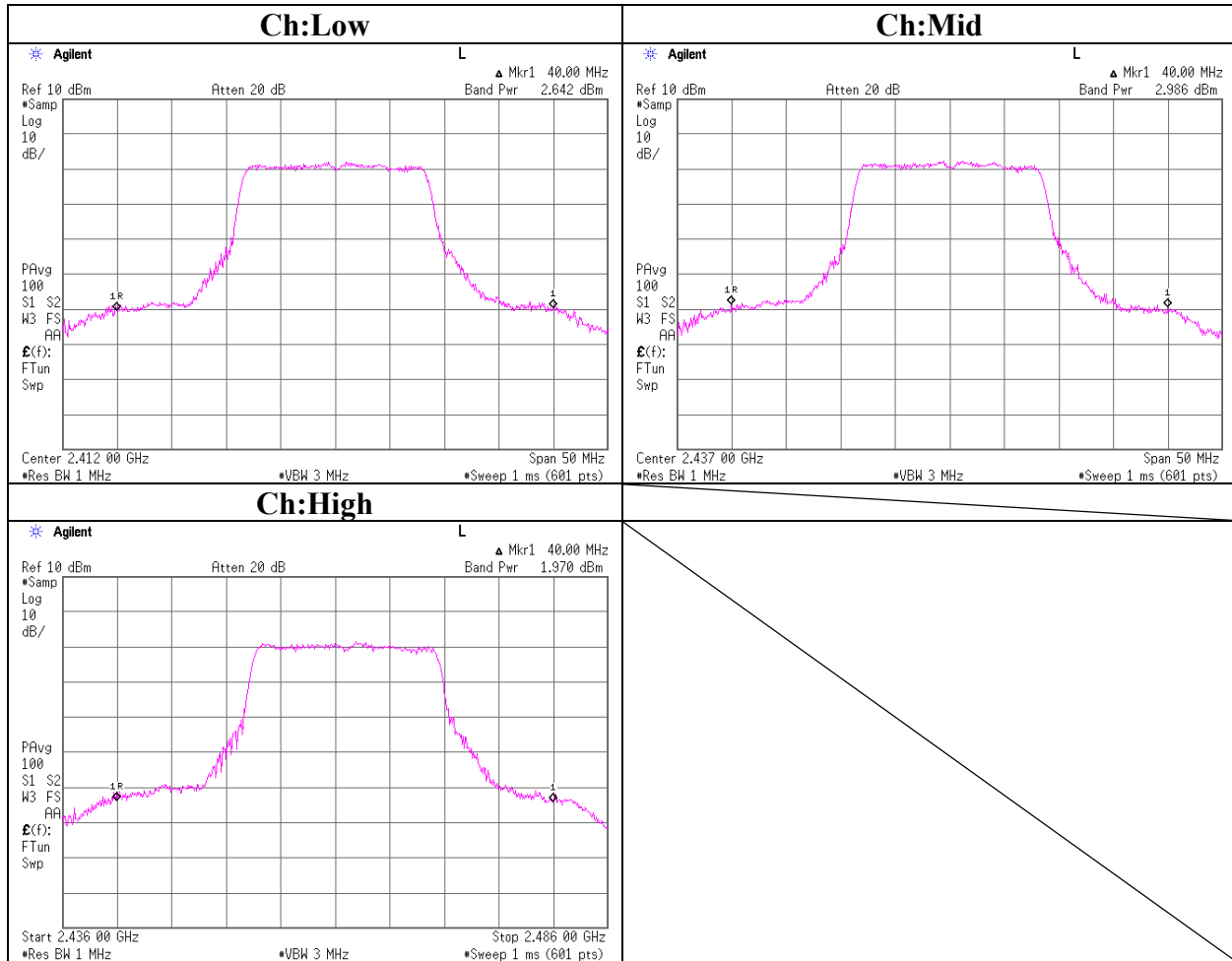
Maximum Peak OutPut Power(11b/11Mbps/Main antenna)



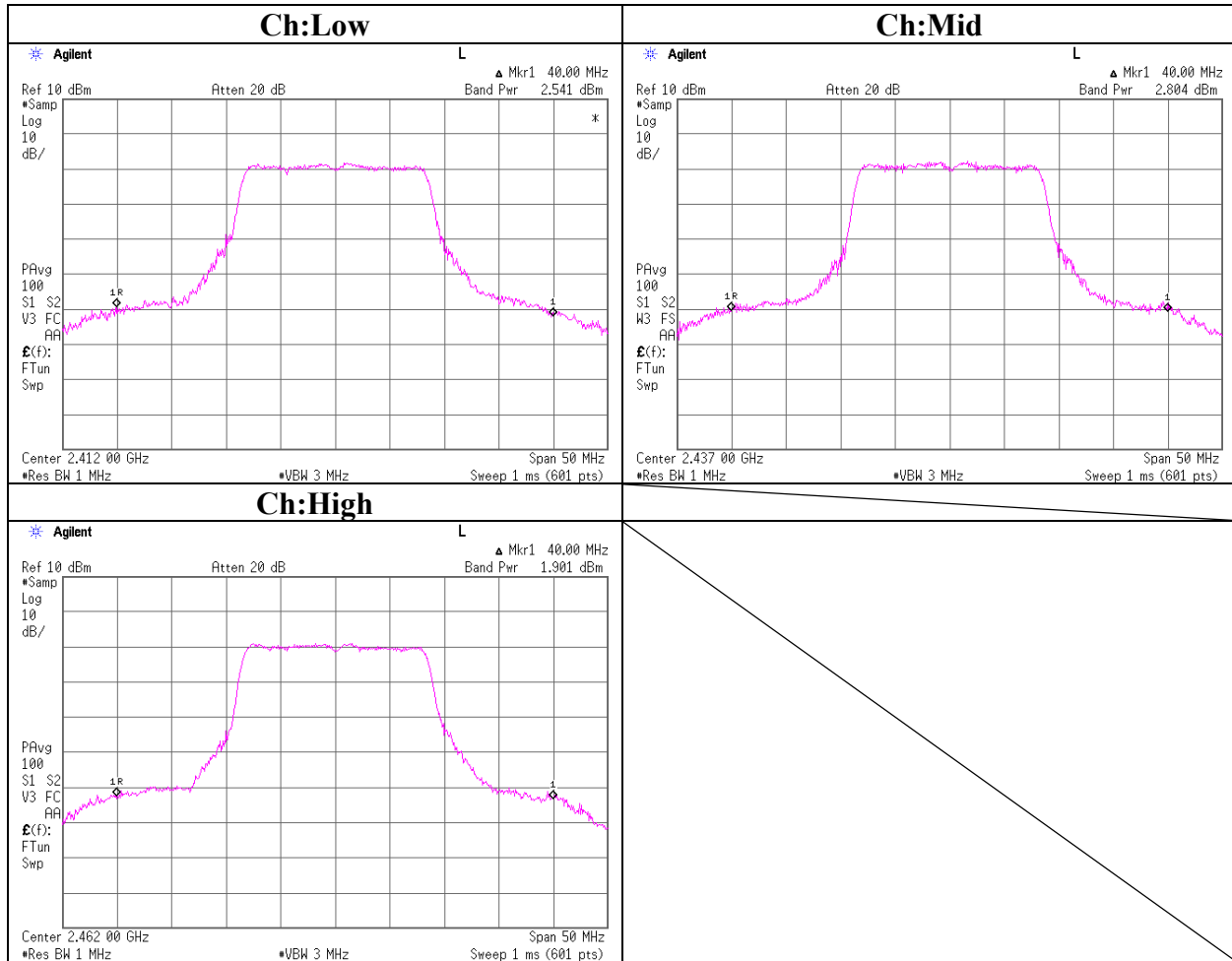
Maximum Peak OutPut Power(11b/11Mbps/AUX antenna)



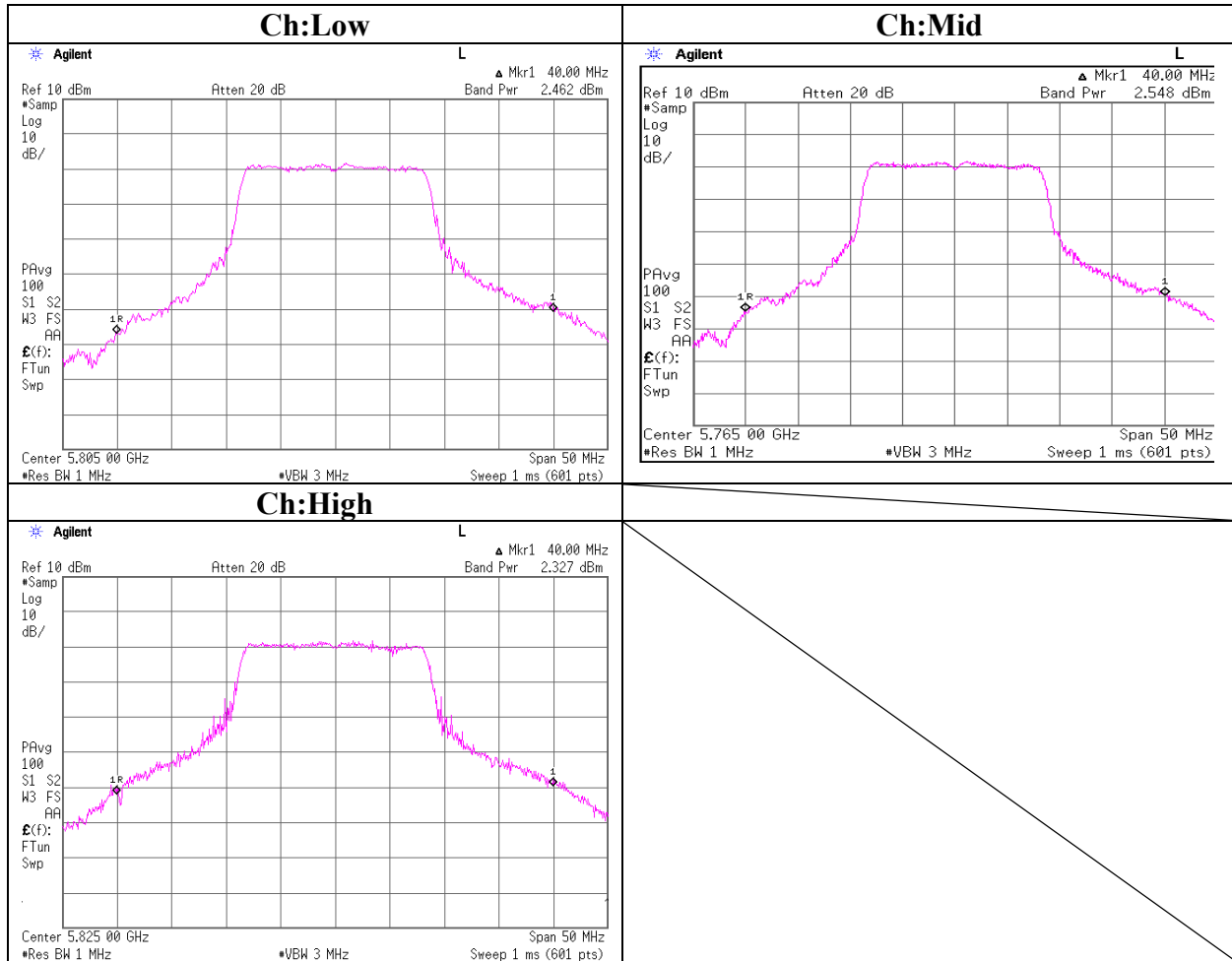
Maximum Peak OutPut Power(11g/54Mbps/Main antenna)



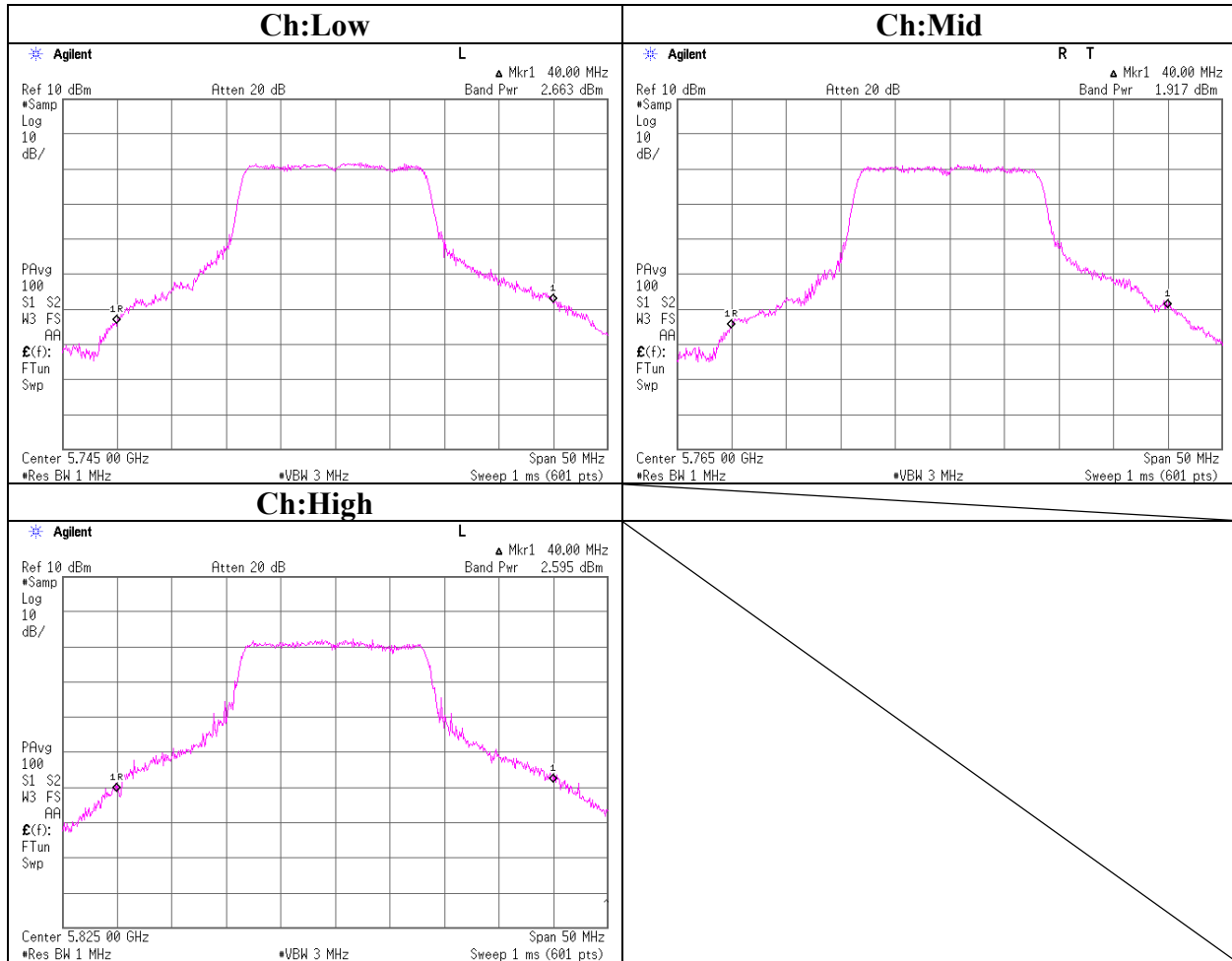
Maximum Peak OutPut Power(11g/54Mbps/AUX antenna)



Maximum Peak OutPut Power(11a High band/54Mbps/Main antenna)



Maximum Peak OutPut Power(11a High band/54Mbps/AUX antenna)



Maximum Peak OutPut Power (Reference data for SAR testing)

[IEEE802.11b : Main Antenna Port by the data rate]						
Ch	Modulation (Data rate [bps])	PK Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
6	DBPSK (1Mbps)	2.86	2.50	10.00	15.36	34.36
6	DQPSK(2Mbps)	3.20	2.50	10.00	15.70	37.15
6	CCK(5.5Mbps)	3.16	2.50	10.00	15.66	36.81
6	CCK(11Mbps)	3.44	2.50	10.00	15.94	39.26

[IEEE802.11b : Aux Antenna Port by the data rate]						
Ch	Modulation (Data rate [bps])	PK Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
6	DBPSK (1Mbps)	3.29	2.50	10.00	15.79	37.93
6	DQPSK(2Mbps)	3.31	2.50	10.00	15.81	38.11
6	CCK(5.5Mbps)	3.28	2.50	10.00	15.78	37.84
6	CCK(11Mbps)	3.32	2.50	10.00	15.82	38.19

[IEEE802.11g : Main Antenna Port (by the data rate)]						
Ch	Modulation (Data rate [bps])	PK Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
6	BPSK (6Mbps)	2.53	2.50	10.00	15.03	31.84
6	BPSK (9Mbps)	2.76	2.50	10.00	15.26	33.57
6	QPSK (12Mbps)	2.79	2.50	10.00	15.29	33.81
6	QPSK (18Mbps)	2.81	2.50	10.00	15.31	33.96
6	16QAM(24Mbps)	2.78	2.50	10.00	15.28	33.73
6	16QAM(36Mbps)	2.93	2.50	10.00	15.43	34.91
6	64QAM(48Mbps)	2.77	2.50	10.00	15.27	33.65
6	64QAM(54Mbps)	2.99	2.50	10.00	15.49	35.40

[IEEE802.11g : Main Antenna Port (9Mbps)] Worst data rate in the SAR testing						
Ch	Freq. [MHz]	PK Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
1	2412.0	2.52	2.50	10.00	15.02	31.77
7	2442.0	2.76	2.50	10.00	15.26	33.57
13	2472.0	1.89	2.50	10.00	14.39	27.48

[IEEE802.11g : Aux Antenna Port (by the data rate)]						
Ch	Modulation (Data rate [bps])	PK Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
6	BPSK (6Mbps)	2.72	2.50	10.00	15.22	33.27
6	BPSK (9Mbps)	2.70	2.50	10.00	15.20	33.11
6	QPSK (12Mbps)	2.73	2.50	10.00	15.23	33.34
6	QPSK (18Mbps)	2.80	2.50	10.00	15.30	33.88
6	16QAM(24Mbps)	2.80	2.50	10.00	15.30	33.88
6	16QAM(36Mbps)	2.78	2.50	10.00	15.28	33.73
6	64QAM(48Mbps)	2.75	2.50	10.00	15.25	33.50
6	64QAM(54Mbps)	2.80	2.50	10.00	15.30	33.88

[IEEE802.11g : Aux Antenna Port (6Mbps)] Worst data rate in the SAR testing						
Ch	Freq. [MHz]	PK Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
1	2412.0	2.54	2.50	10.00	15.04	31.92
6	2437.0	2.72	2.50	10.00	15.22	33.27
11	2462.0	1.81	2.50	10.00	14.31	26.98

Maximum Peak OutPut Power
(Reference data for SAR testing)

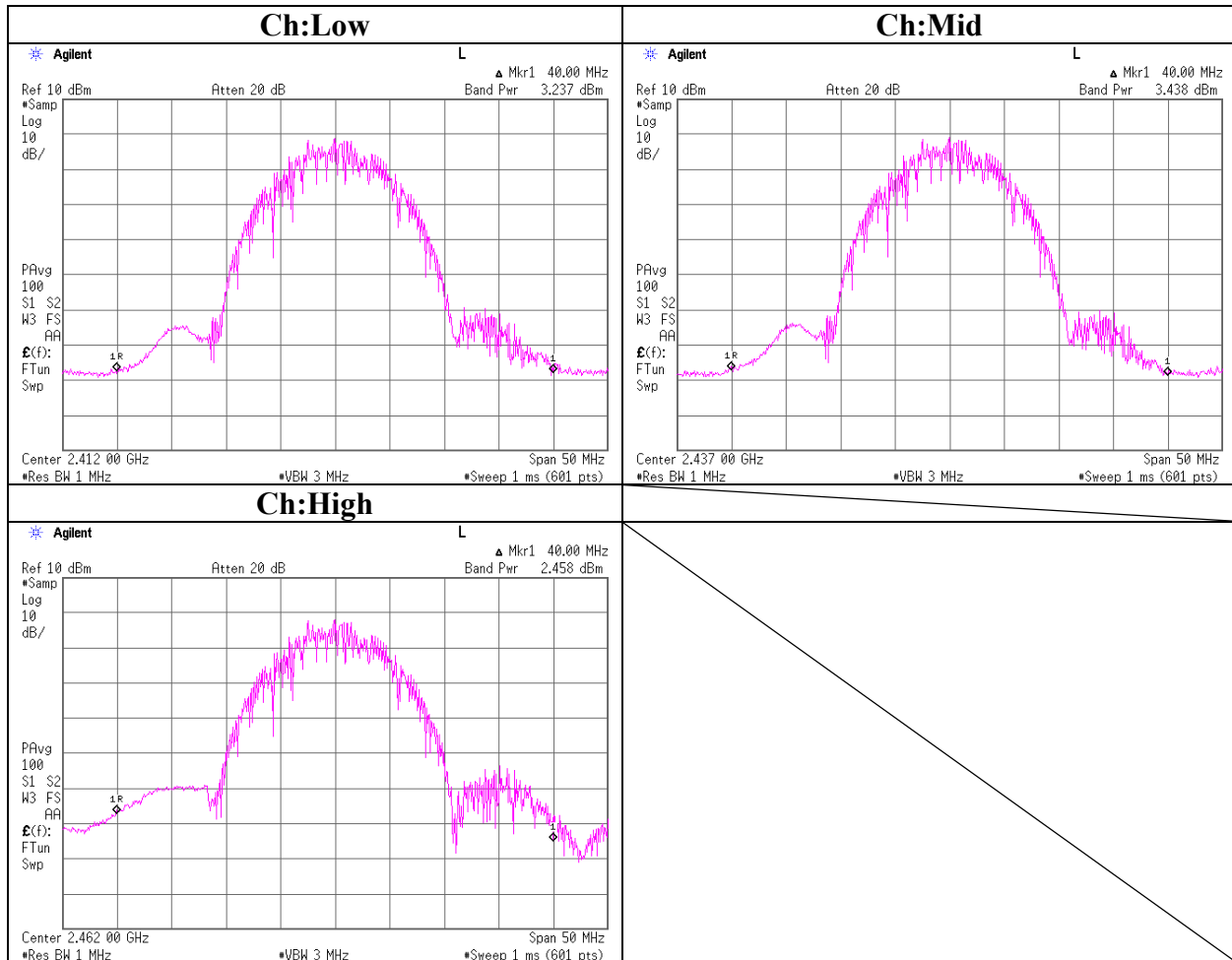
[IEEE802.11a Mid Band : Main Antenna Port (by the data rate)]						
Ch	Modulation (Data rate [bps])	PK Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
153	BPSK (6Mbps)	2.43	3.93	10.00	16.36	43.25
153	BPSK (9Mbps)	2.33	3.93	10.00	16.26	42.27
153	QPSK (12Mbps)	1.78	3.93	10.00	15.71	37.24
153	QPSK (18Mbps)	1.77	3.93	10.00	15.70	37.15
153	16QAM(24Mbps)	2.51	3.93	10.00	16.44	44.06
153	16QAM(36Mbps)	1.81	3.93	10.00	15.74	37.50
153	64QAM(48Mbps)	1.91	3.93	10.00	15.84	38.37
153	64QAM(54Mbps)	2.55	3.93	10.00	16.48	44.46

[IEEE802.11a Mid Band : Main Antenna Port (12Mbps) Worst datarate in the SAR test]						
Ch	Freq. [MHz]	AVG Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
149	5745.0	1.97	3.93	10.00	15.90	38.90
153	5765.0	1.78	3.93	10.00	15.71	37.24
165	5825.0	1.49	3.53	10.00	15.02	31.77

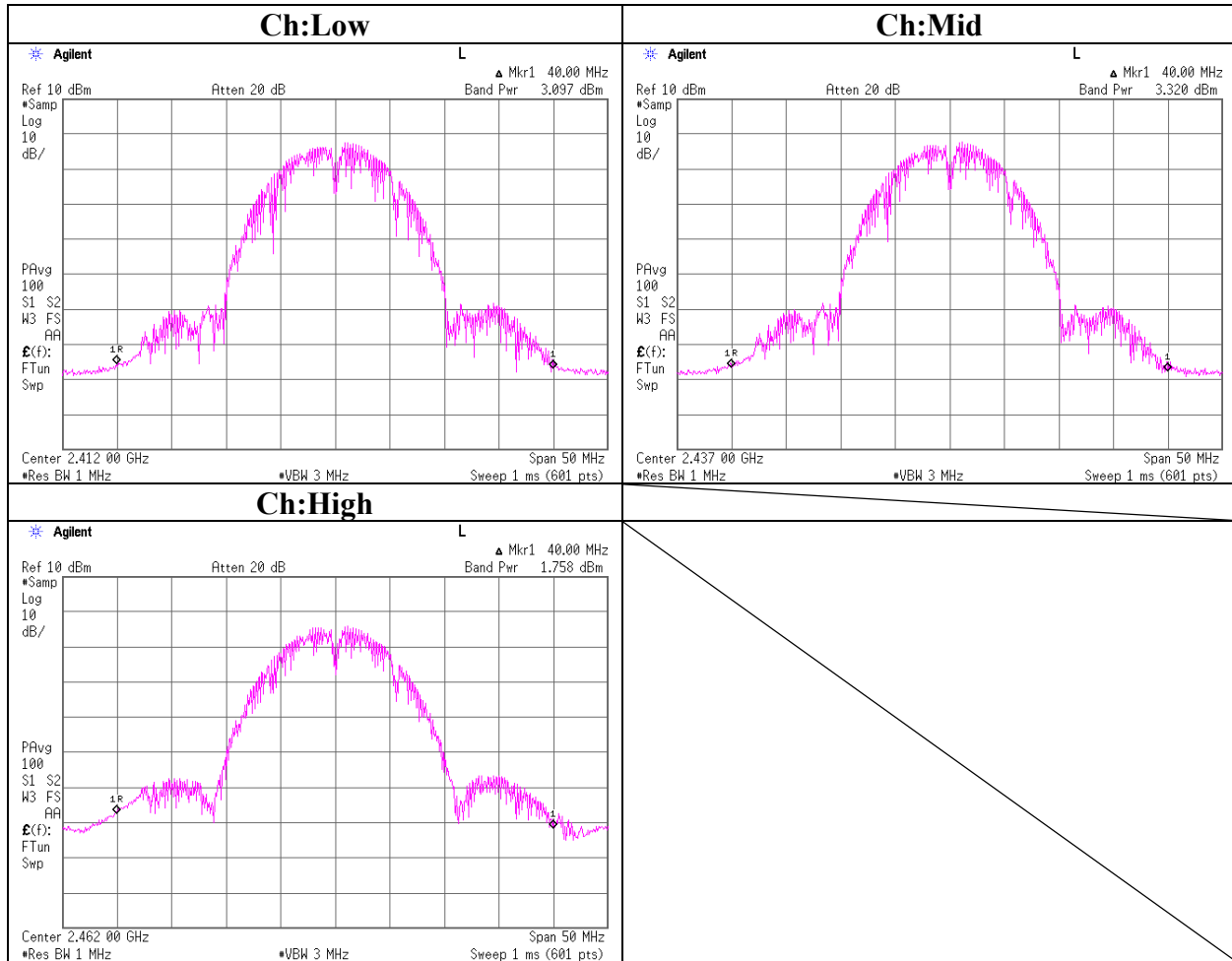
[IEEE802.11a Mid Band : Aux Antenna Port (by the data rate)]						
Ch	Modulation (Data rate [bps])	PK Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
153	BPSK (6Mbps)	1.62	3.93	10.00	15.55	35.89
153	BPSK (9Mbps)	1.51	3.93	10.00	15.44	34.99
153	QPSK (12Mbps)	1.12	3.93	10.00	15.05	31.99
153	QPSK (18Mbps)	1.11	3.93	10.00	15.04	31.92
153	16QAM(24Mbps)	1.88	3.93	10.00	15.81	38.11
153	16QAM(36Mbps)	1.56	3.93	10.00	15.49	35.40
153	64QAM(48Mbps)	1.67	3.93	10.00	15.60	36.31
153	64QAM(54Mbps)	1.92	3.93	10.00	15.85	38.46

[IEEE802.11a Mid Band : Aux Antenna Port (6Mbps) Worst datarate in the SAR test]						
Ch	Freq. [MHz]	AVG Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Converted [mW]
149	5745.0	2.12	3.93	10.00	16.05	40.27
153	5765.0	1.62	3.93	10.00	15.55	35.89
165	5825.0	2.31	3.53	10.00	15.84	38.37

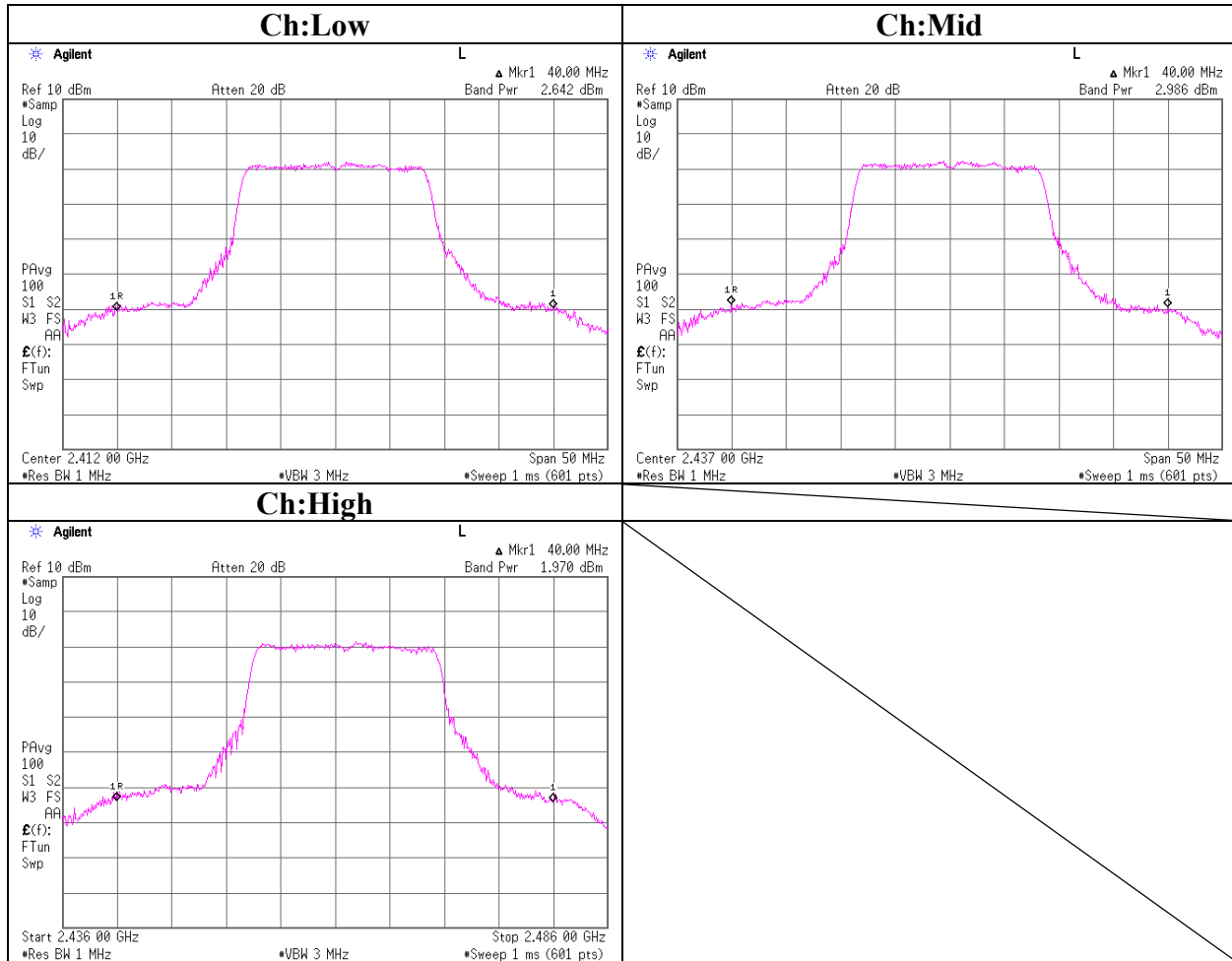
Maximum Peak OutPut Power(11b/11Mbps/Main antenna)



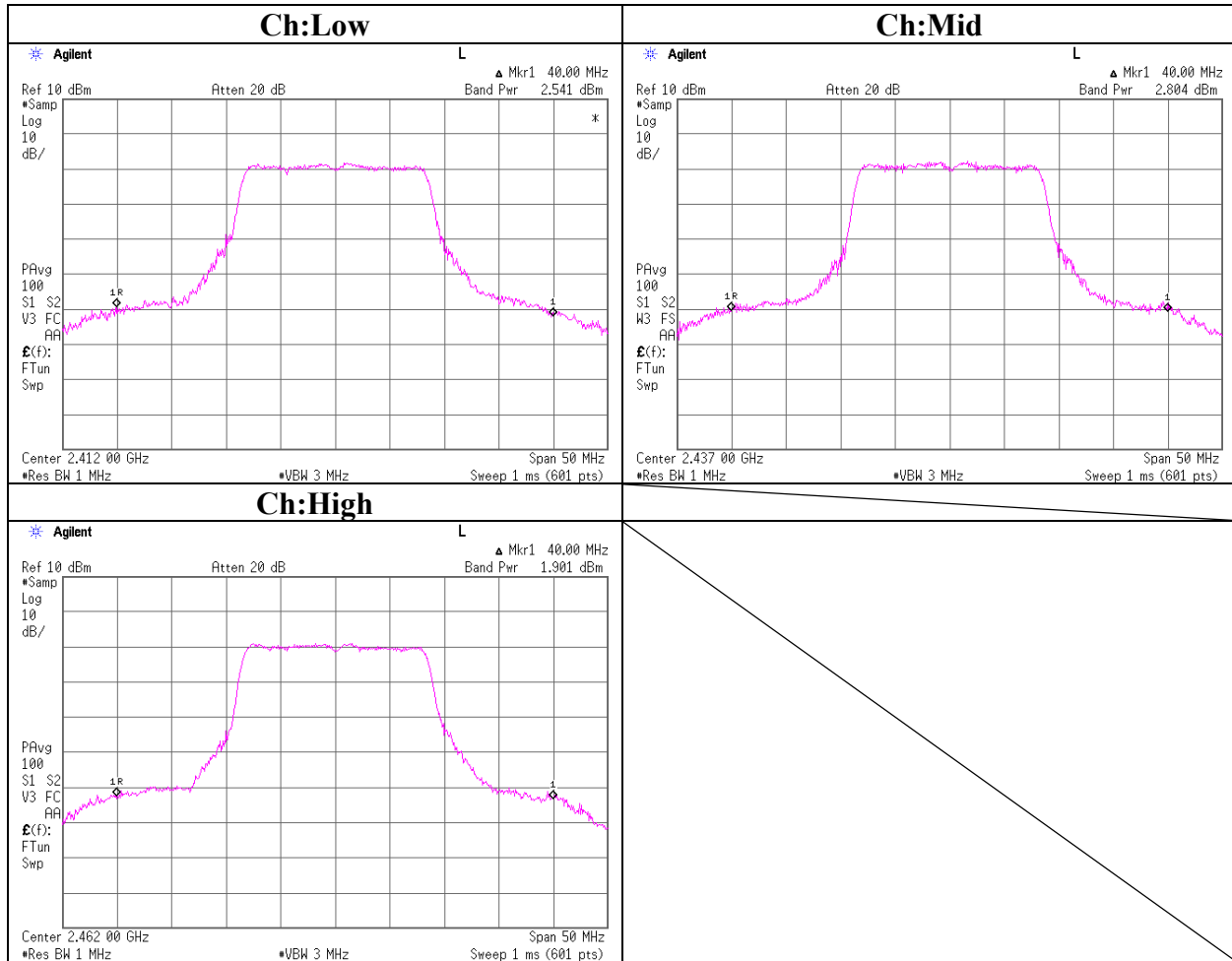
Maximum Peak OutPut Power(11b/11Mbps/AUX antenna)



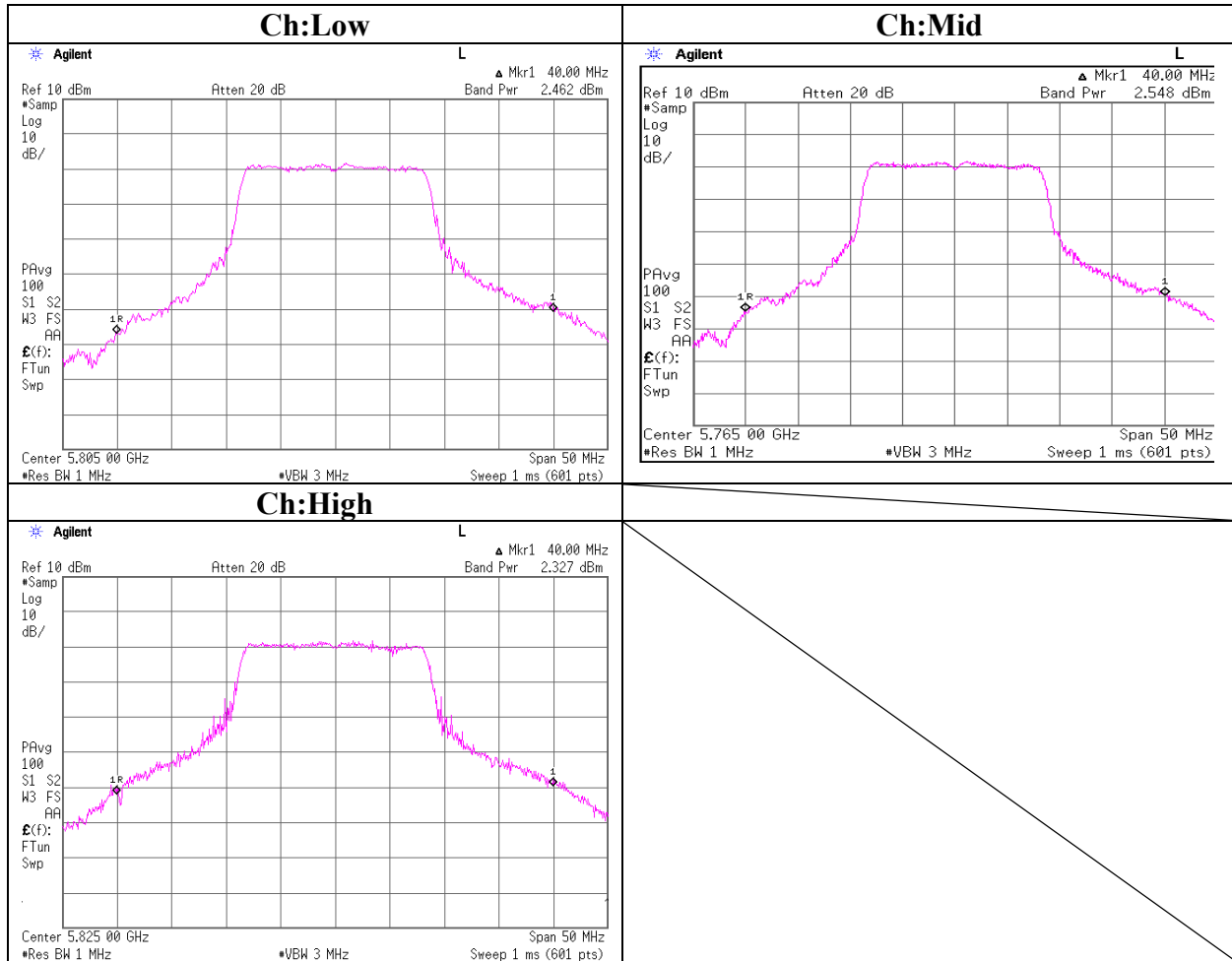
Maximum Peak OutPut Power(11g/54Mbps/Main antenna)



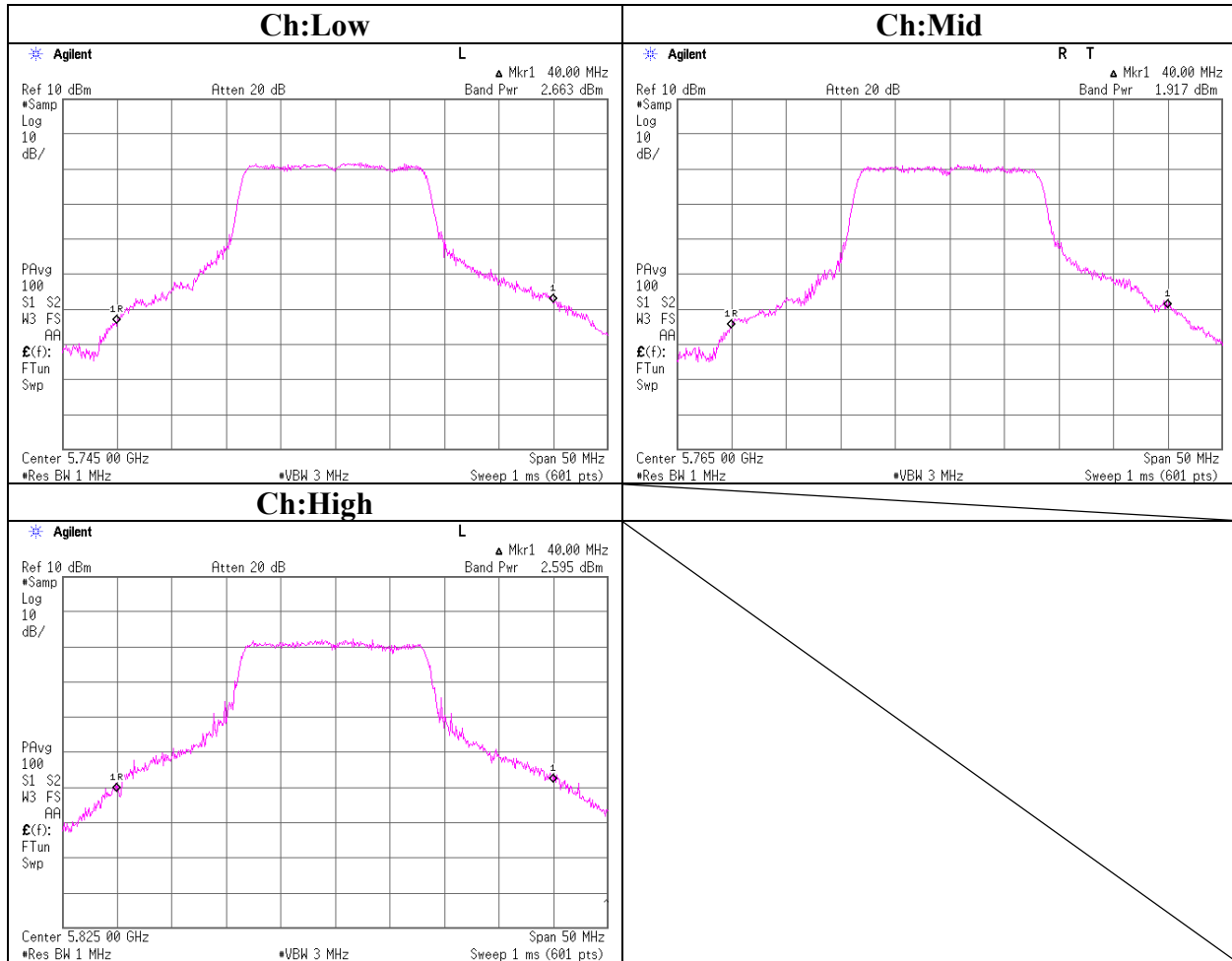
Maximum Peak OutPut Power(11g/54Mbps/AUX antenna)



Maximum Peak OutPut Power(11a High band/54Mbps/Main antenna)



Maximum Peak OutPut Power(11a High band/54Mbps/AUX antenna)



Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/04/07 00:00:44

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTAI-17
Report No. : 26HE0320-HO
Power : AC120V/60Hz (AC Adapter DC16V)
Temp./Humi. : 27deg.C. / 27%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11a/b/g Low/Mid/High, Rx Mid and BT Hopping Hor (Z-axis) Ver (Y-axis)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP / RSS-Gen / RSS-210
Except for the data below : adequate margin data below the limits.

Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Gain [dB]							
120.000	28.4	QP	13.5	-23.7	18.2	280	139	Hori.	43.5	25.3	Tx 11b Low
120.000	30.9	QP	13.5	-23.7	20.7	111	100	Vert.	43.5	22.8	Tx 11b Low
144.000	34.0	QP	15.2	-23.5	25.7	203	216	Hori.	43.5	17.8	Tx 11b Low
144.000	33.8	QP	15.2	-23.5	25.5	53	100	Vert.	43.5	18.0	Tx 11b Low
225.000	39.9	QP	17.6	-22.8	34.7	98	142	Hori.	46.0	11.3	Tx 11b Low
225.000	28.9	QP	17.6	-22.8	23.7	351	177	Vert.	46.0	22.3	Tx 11b Low
240.000	40.8	QP	17.8	-22.7	35.9	82	133	Hori.	46.0	10.1	Tx 11b Low
240.000	32.4	QP	17.8	-22.7	27.5	335	161	Vert.	46.0	18.5	Tx 11b Low
240.000	40.9	QP	17.8	-22.7	36.0	82	133	Hori.	46.0	10.0	Tx 11b Mid
240.000	40.8	QP	17.8	-22.7	35.9	82	133	Hori.	46.0	10.1	Tx 11b Hi
240.000	40.9	QP	17.8	-22.7	36.0	82	133	Hori.	46.0	10.0	Rx 11b Mid
240.000	40.9	QP	17.8	-22.7	36.0	82	133	Hori.	46.0	10.0	Tx 11g Low
240.000	40.8	QP	17.8	-22.7	35.9	82	133	Hori.	46.0	10.1	Tx 11g Mid
240.000	40.5	QP	17.8	-22.7	35.6	82	133	Hori.	46.0	10.4	Tx 11g Hi
240.000	40.7	QP	17.8	-22.7	35.8	82	133	Hori.	46.0	10.2	Rx 11g Mid
365.000	36.6	QP	16.8	-21.9	31.5	138	100	Hori.	46.0	14.5	Tx 11b Low
365.000	30.3	QP	16.8	-21.9	25.2	139	100	Vert.	46.0	20.8	Tx 11b Low
528.000	28.3	QP	19.0	-21.0	26.3	122	134	Hori.	46.0	19.7	Tx 11b Low
528.000	33.9	QP	19.0	-21.0	31.9	181	100	Vert.	46.0	14.1	Tx 11b Low
528.000	33.3	QP	19.0	-21.0	31.3	177	100	Vert.	46.0	14.7	Tx 11g Low & BT Hop
528.000	33.9	QP	19.0	-21.0	31.9	177	100	Vert.	46.0	14.1	Tx 11a 5745MHz
609.512	32.7	QP	19.8	-20.7	31.8	187	113	Hori.	46.0	14.2	Tx 11b Low
609.512	31.2	QP	19.8	-20.7	30.3	153	100	Vert.	46.0	15.7	Tx 11b Low
677.223	34.1	QP	20.1	-20.4	33.8	185	100	Hori.	46.0	12.2	Tx 11b Low
700.680	34.2	QP	20.2	-20.3	34.1	49	142	Vert.	46.0	11.9	Tx 11b Low
700.680	33.8	QP	20.2	-20.3	33.7	176	113	Hori.	46.0	12.3	Tx 11b Low
900.869	33.6	QP	21.5	-18.3	36.8	98	118	Vert.	46.0	9.2	Tx 11b Hi
900.869	33.5	QP	21.5	-18.3	36.7	98	118	Vert.	46.0	9.3	Rx 11b Mid
900.869	33.7	QP	21.5	-18.3	36.9	98	118	Vert.	46.0	9.1	Tx 11g Low
900.869	33.5	QP	21.5	-18.3	36.7	98	118	Vert.	46.0	9.3	Tx 11g Mid
900.869	33.6	QP	21.5	-18.3	36.8	96	121	Vert.	46.0	9.2	Tx 11g Hi
900.869	33.1	QP	21.5	-18.3	36.3	98	118	Vert.	46.0	9.7	Rx 11b Mid
900.869	32.3	QP	21.5	-18.3	35.5	330	139	Hori.	46.0	10.5	Tx 11b Low
900.869	33.6	QP	21.5	-18.3	36.8	320	100	Vert.	46.0	9.2	Tx 11g Low & BT Hop
900.869	33.5	QP	21.5	-18.3	36.7	98	118	Vert.	46.0	9.3	Tx 11b Low
900.869	33.5	QP	21.5	-18.3	36.7	98	121	Vert.	46.0	9.3	Tx 11b Mid
900.893	33.6	QP	21.5	-18.3	36.8	111	115	Vert.	46.0	9.2	Tx 11g Hi & BT Hop
900.897	33.6	QP	21.5	-18.3	36.8	111	115	Vert.	46.0	9.2	Tx 11a 5745MHz

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)

UL Apex Co., Ltd.

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MF060b(01.06.05)

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/04/07 00:00:44

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-HO
Power : AC120V/60Hz (AC Adapter DC16V)
Temp./Humi. : 27deg.C / 27%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11b 11Mbps 2412MHz AntPort Aux Hor(Z-axis) Ver(Y-axis)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP / RSS-Gen / RSS-210
Except for the data below : adequate margin data below the limits.

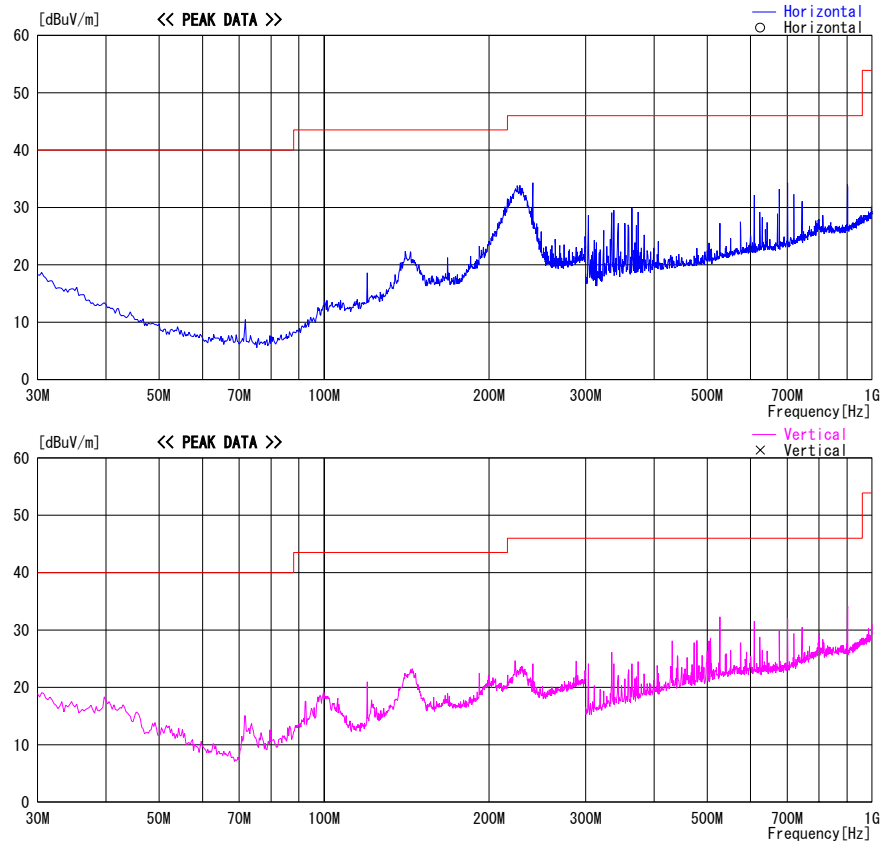


CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/04/07 00:09:26

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-HO
Power : AC120V/60Hz (AC Adapter DC16V)
Temp./Humi. : 27deg.C / 27%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11b 11Mbps 2437MHz AntPort Aux Hor(Z-axis) Ver(Y-axis)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP / RSS-Gen / RSS-210
Except for the data below : adequate margin data below the limits.

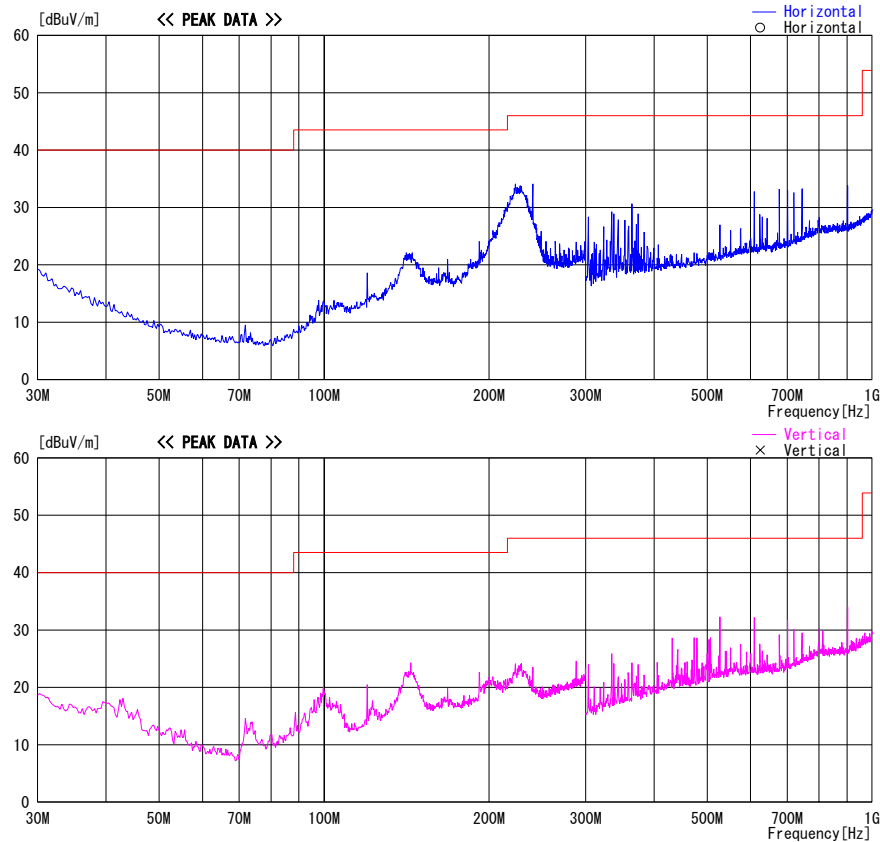


CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2006/04/07 00:17:46

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-HO
Power : AC120V/60Hz (AC Adapter DC16V)
Temp./Humi. : 27deg. C. / 27%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11b 11Mbps 2462MHz AntPort Aux Hor (Z-axis) Ver (Y-axis)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP / RSS-Gen / RSS-210
Except for the data below : adequate margin data below the limits.

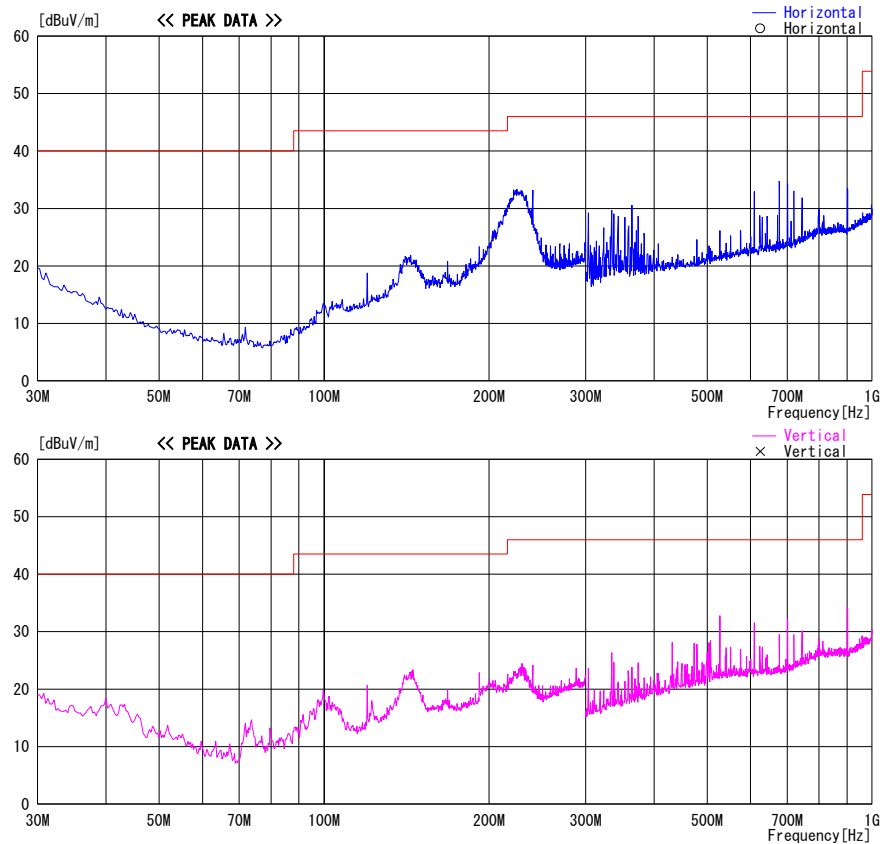


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
Date : 2006/04/07 00:27:56

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTAI-17

Report No. : 26HE0320-HO
Power : AC120V/60Hz (AC Adapter DC16V)
Temp./Humi. : 27deg.C. / 27%
Operator : Makoto Kosaka

Mode / Remarks : Rx 11b 11Mbps 2437MHz AntPort Aux Hor (Z-axis) Ver (Y-axis)

LIMIT : FCC Part15 Subpart B Class B (3m)/USA, below1GHz:QP / RSS-210 / RSS-Gen
Except for the data below : adequate margin data below the limits.

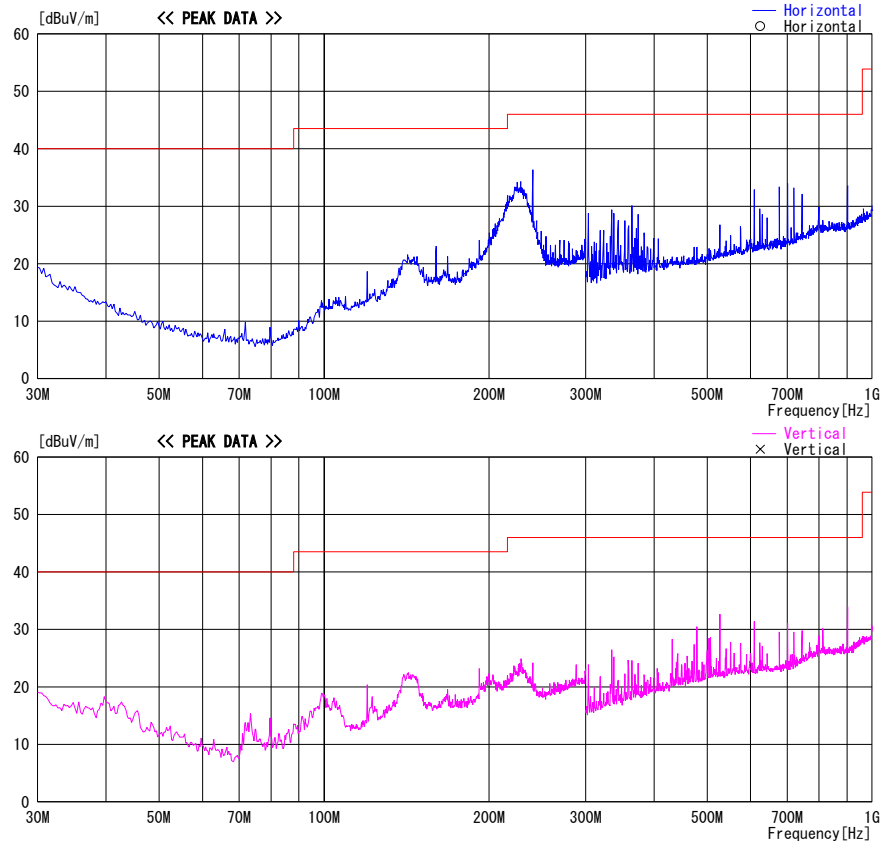


CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/04/06 23:25:41

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-HO
Power : AC120V/60Hz (AC Adapter DC16V)
Temp./Humi. : 27deg.C. / 27%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11g 54Mbps 2412MHz AntPort Aux Hor(Z-axis) Ver(Y-axis)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP / RSS-Gen / RSS-210
Except for the data below : adequate margin data below the limits.

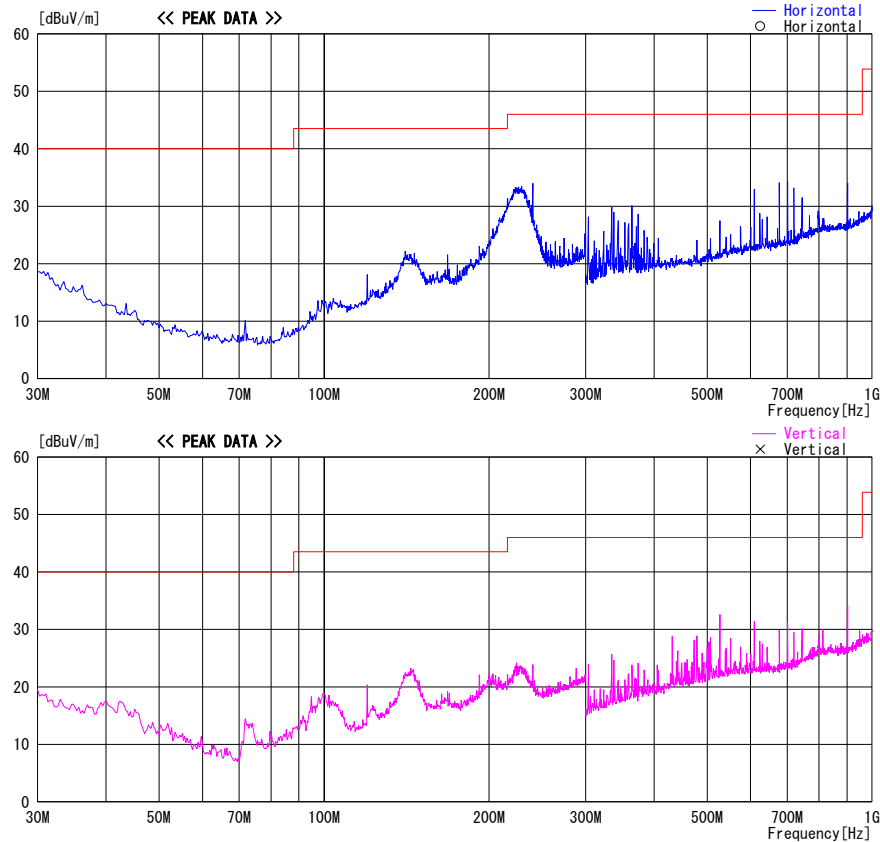


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/04/06 23:35:46

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-HO
Power : AC120V/60Hz (AC Adapter DC16V)
Temp./Humi. : 27deg.C. / 27%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11g 54Mbps 2437MHz AntPort Aux Hor(Z-axis) Ver(Y-axis)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP / RSS-Gen / RSS-210
Except for the data below : adequate margin data below the limits.

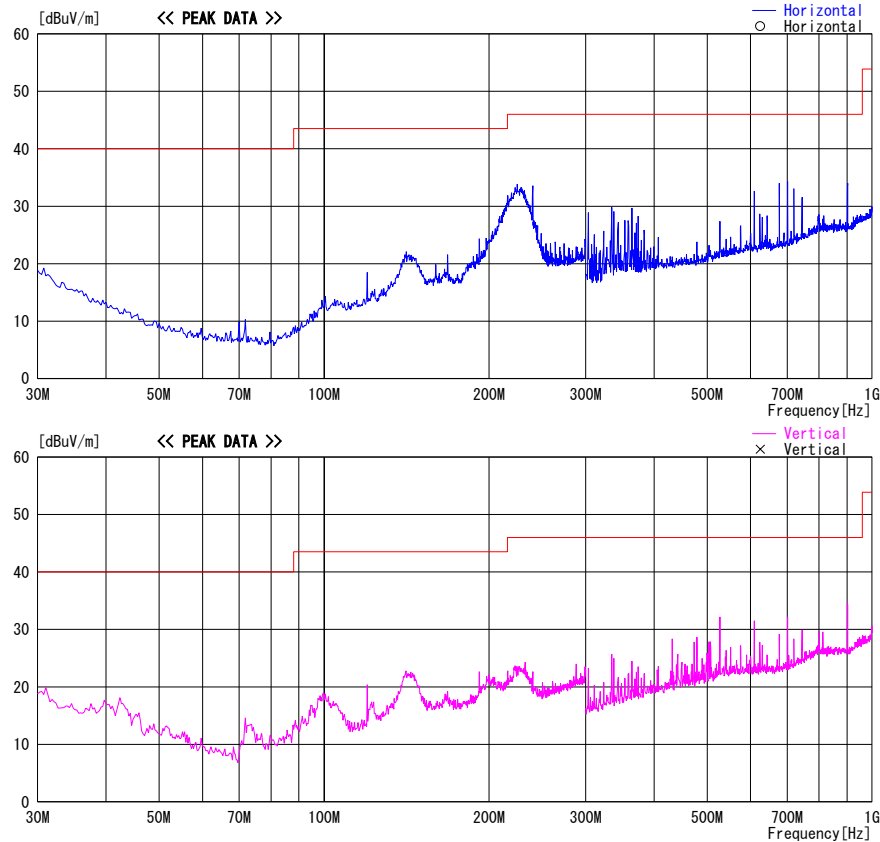


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/04/06 23:46:35

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-HO
Power : AC120V/60Hz (AC Adapter DC16V)
Temp./Humi. : 27deg.C. / 27%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11g 54Mbps 2462MHz AntPort Aux Hor(Z-axis) Ver(Y-axis)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP / RSS-Gen / RSS-210
Except for the data below : adequate margin data below the limits.

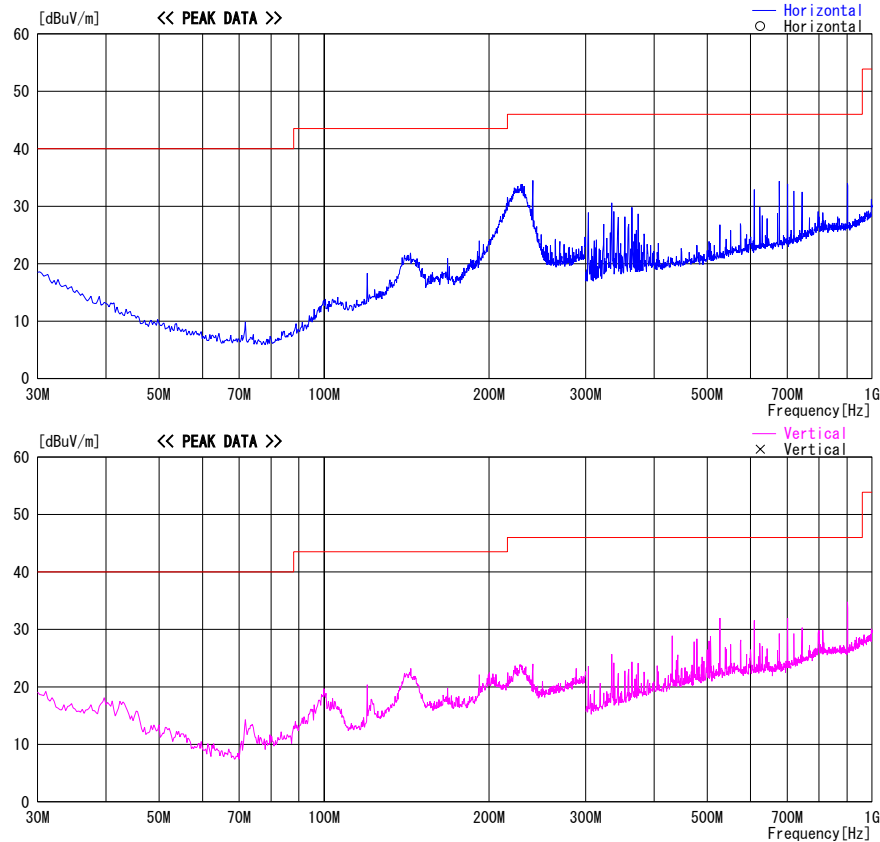


CHART: WITH FACTOR ANT TYPE: -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/04/06 23:11:05

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-HO
Power : AC120V/60Hz (AC Adapter DC16V)
Temp./Humi. : 27deg.C. / 27%
Operator : Makoto Kosaka

Mode / Remarks : Rx 11g 54Mbps 2437MHz AntPort Aux Hor (Z-axis) Ver (Y-axis)

LIMIT : FCC Part15 Subpart B Class B (3m)/USA, below 1GHz:QP / RSS-Gen
Except for the data below : adequate margin data below the limits.

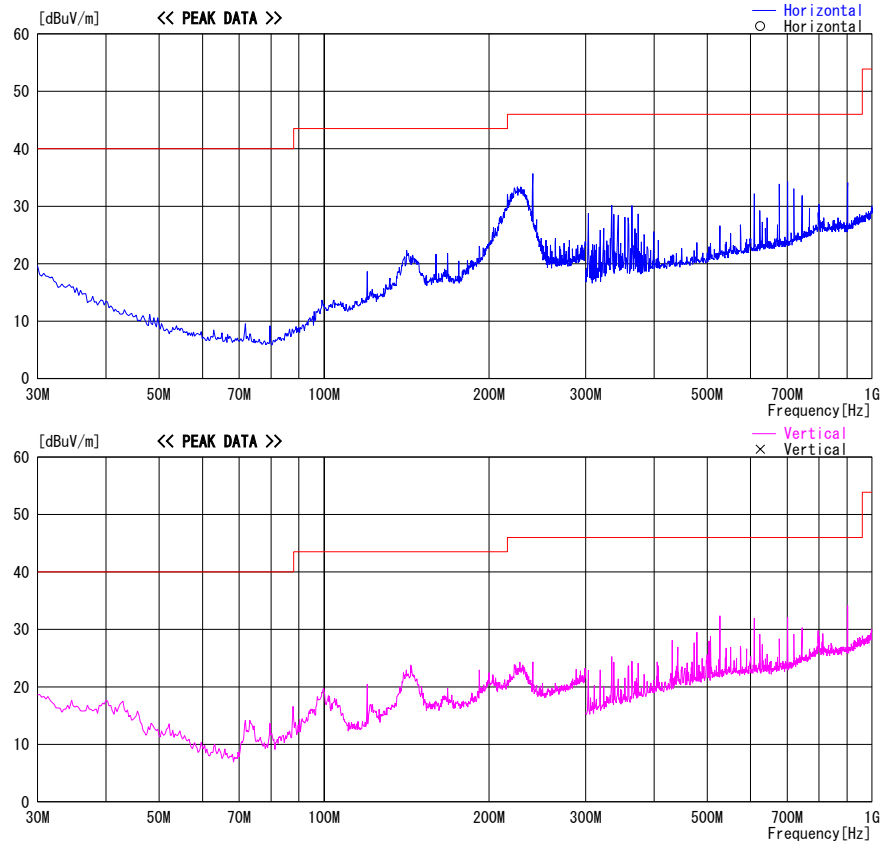


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/04/07 23:08:14

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTAI-17

Report No. : 26HE0320-HO
Power : AC120V/60Hz (AC Adapter DC16V)
Temp./Humi. : 26deg.C. / 27%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11a 54Mbps 5745MHz AntPort Main Hor (Z-axis) Ver (Z-axis)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP / RSS-Gen / RSS-210
Except for the data below : adequate margin data below the limits.

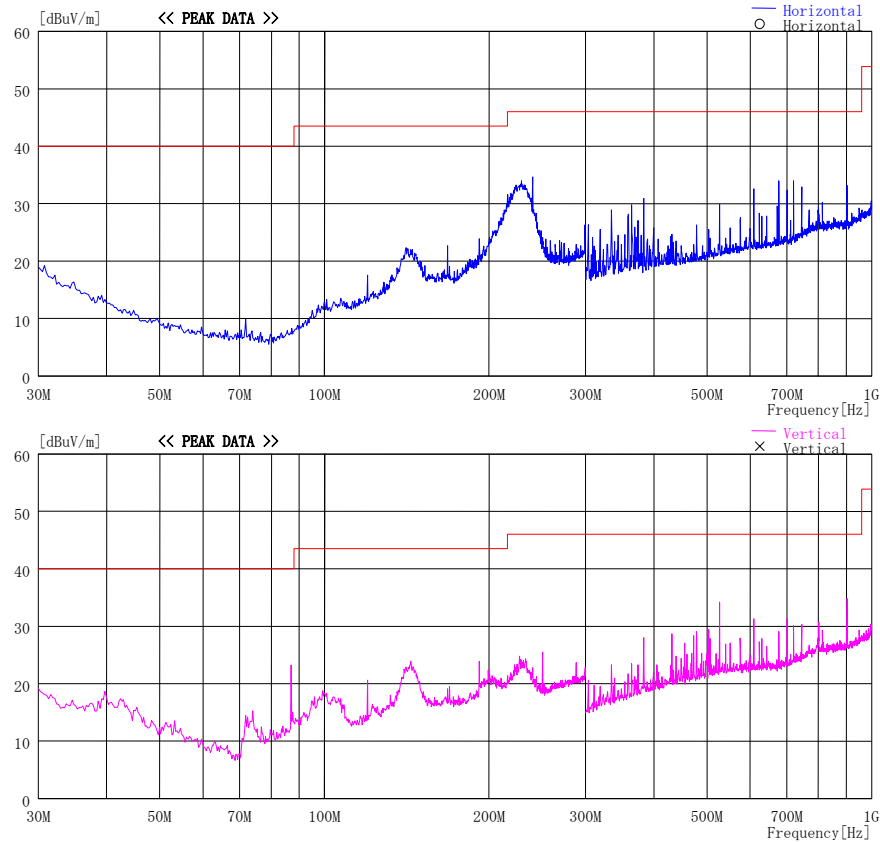


CHART: WITH FACTOR ANT TYPE: -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/04/07 23:16:50

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTAI-17

Report No. : 26HE0320-HO
Power : AC120V/60Hz (AC Adapter DC16V)
Temp./Humi. : 26deg.C. / 27%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11a 54Mbps 5765MHz AntPort Main Hor (Z-axis) Ver (Z-axis)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP / RSS-Gen / RSS-210
Except for the data below : adequate margin data below the limits.

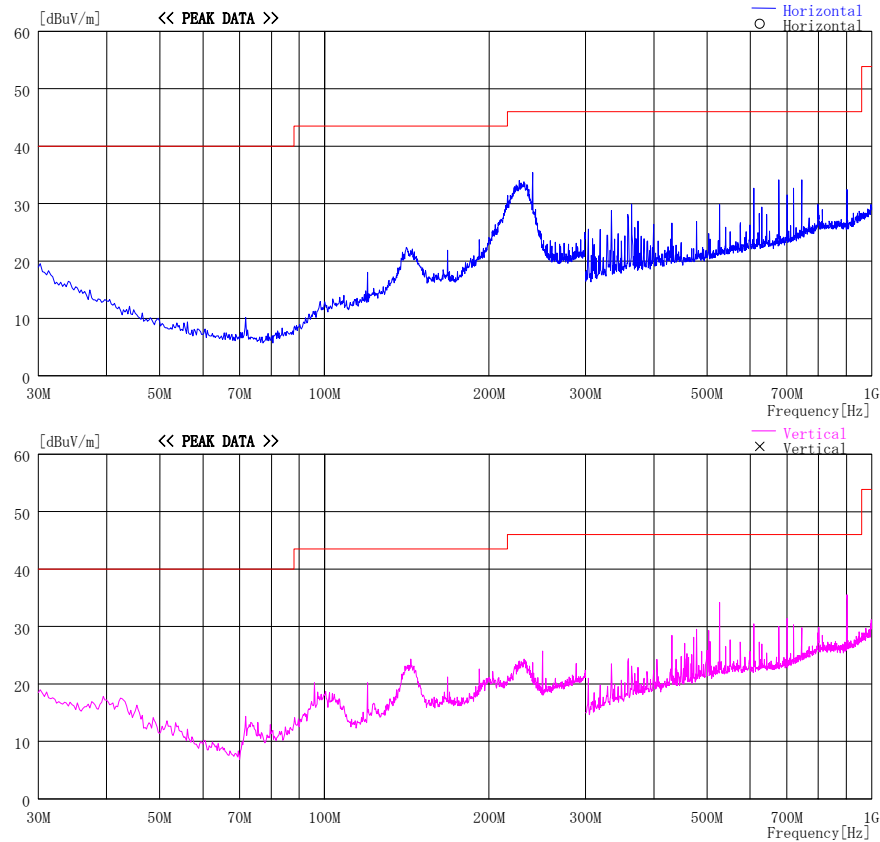


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/04/07 23:25:56

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTAI-17

Report No. : 26HE0320-HO
Power : AC120V/60Hz (AC Adapter DC16V)
Temp./Humi. : 26deg.C. / 27%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11a 54Mbps 5825MHz AntPort Main Hor (Z-axis) Ver (Z-axis)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP / RSS-Gen / RSS-210
Except for the data below : adequate margin data below the limits.

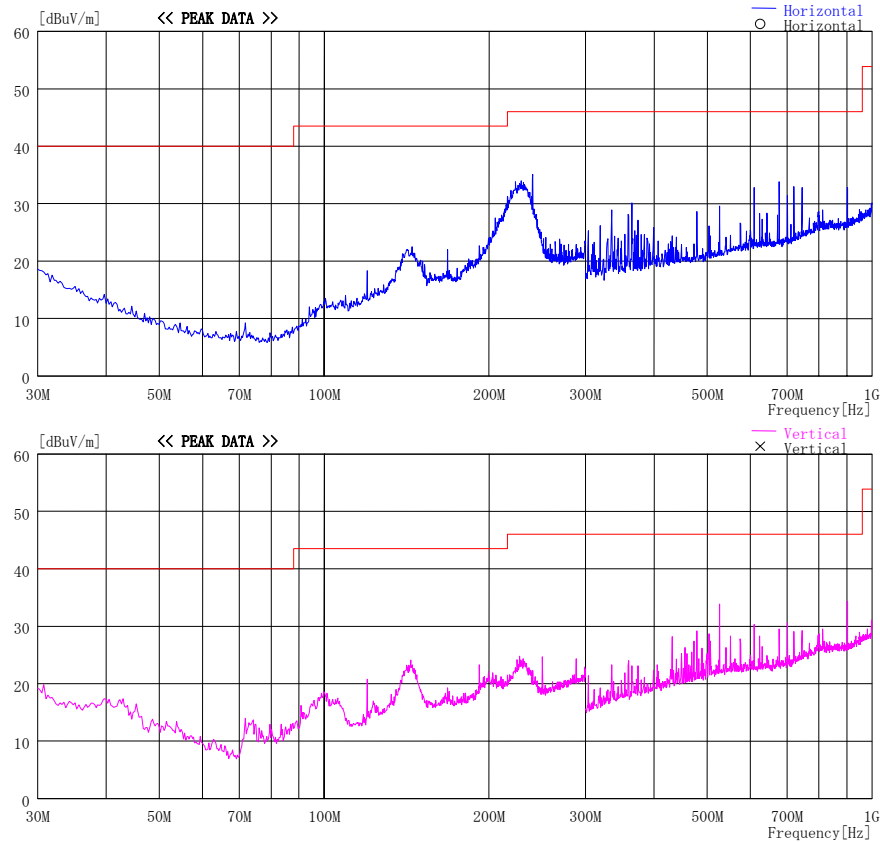


CHART: WITH FACTOR ANT TYPE: -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/04/07 23:34:56

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTAI-17

Report No. : 26HE0320-HO
Power : AC120V/60Hz (AC Adapter DC16V)
Temp./Humi. : 26deg.C. / 27%
Operator : Makoto Kosaka

Mode / Remarks : Rx 11a 54Mbps 5765MHz AntPort Main Hor(Z-axis) Ver(Z-axis)

LIMIT : FCC Part15 Subpart B Class B(3m)/USA, below1GHz:QP / RSS-Gen
Except for the data below : adequate margin data below the limits.

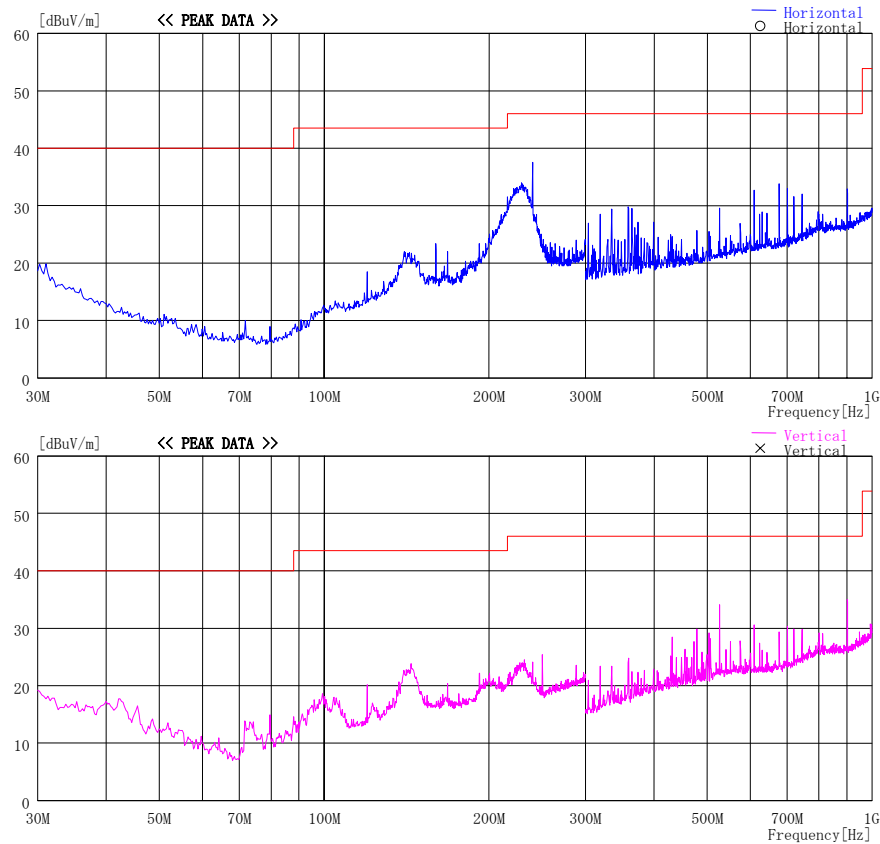


CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

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MF060b(01.06.05)

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/04/08 00:41:14

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTAI-17

Report No. : 26HE0320-HO
Power : AC120V/60Hz (AC Adapter DC16V)
Temp./Humi. : 27deg.C. / 27%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11g 54Mbps 2412MHz Aux & BT Hopping Hor(Z-axis) Ver(Y-axis)
(on)

LIMIT : FCC15C § 15.247(d) 3m, below1GHz:QP / RSS-Gen / RSS-210

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

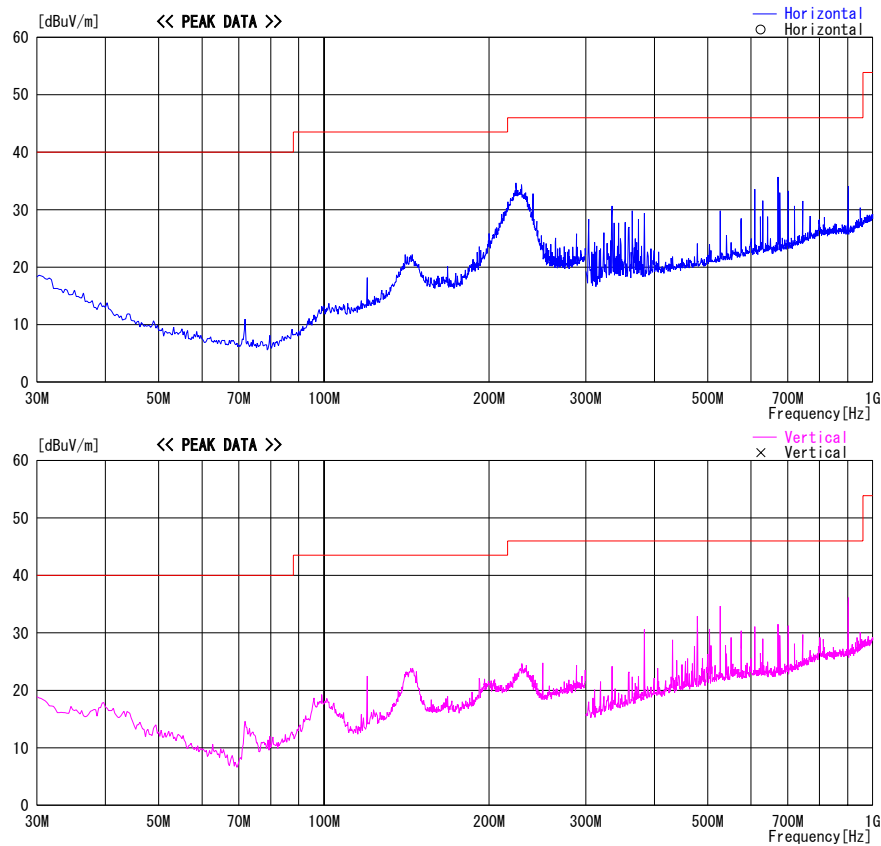


CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

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Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/04/08 00:31:50

Company : Sony Corporation
Kind of EUT : Personal Computer
Model No. : PCG-4H2L
Serial No. : XTA1-17

Report No. : 26HE0320-HO
Power : AC120V/60Hz (AC Adapter DC16V)
Temp./Humi. : 27deg.C. / 27%
Operator : Makoto Kosaka

Mode / Remarks : Tx 11g 54Mbps 2462MHz Aux & BT Hopping Hor (Z-axis) Ver (Y-axis)
(on)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP / RSS-Gen / RSS-210

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

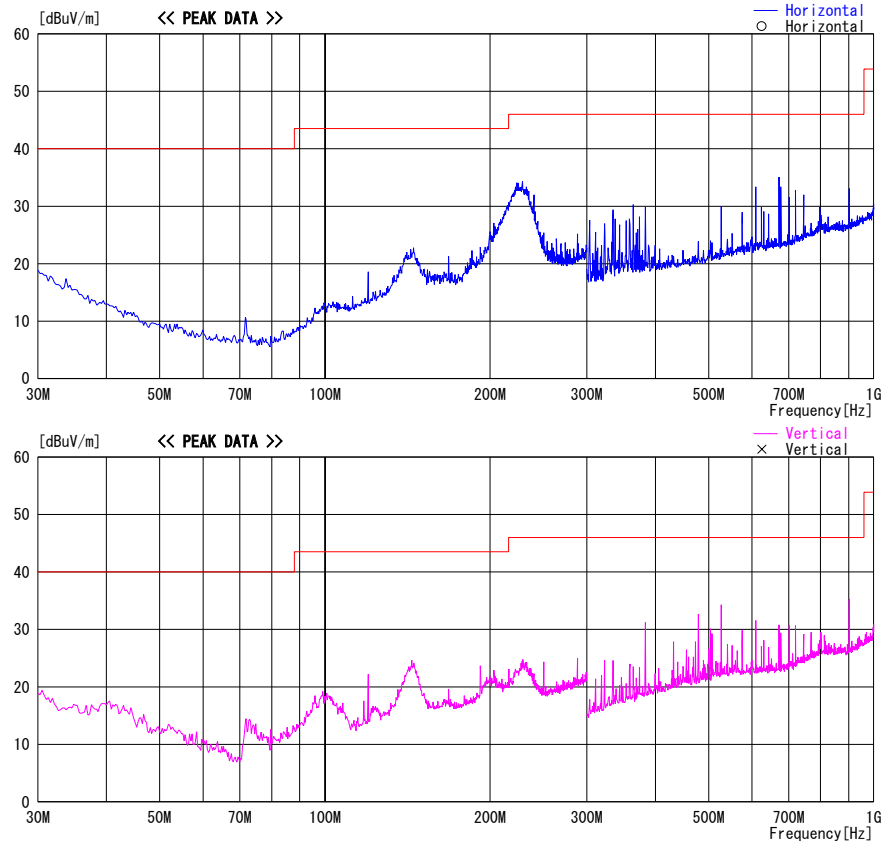


CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

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MF060b(01.06.05)

Radiated Spurious Emission(Tx 11b ch Low)

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

Company : Sony Corporation Equipment : Personal Computer Model : PCG-4H2L Sample No. : XTA1-17 Power : AC120V/60Hz(AC Adapter DC out 16V) Mode : WLAN 11b 11Mbps 2412MHz(Aux) Remarks : Hor Z , Ver Y-axis PK DETECT (RBW: 1MHz, VBW: 1MHz)	REPORT NO : 26HE0320-HO REGULATION : Fcc Part15 Subpart C 15.247(d) TEST DISTANCE : 3/1m DATE : 04/05/2006 TEMPERATURE : 26deg.C HUMIDITY : 36% ENGINEER : Makoto Kosaka
--	---

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	2390.0	42.0	42.2	30.6	32.8	2.9	10.1	52.8	53.0	74.0	21.2	21.0
2	4824.0	41.4	40.1	35.3	31.6	4.1	1.4	50.6	49.3	74.0	23.4	24.7
3	7236.0	43.2	41.5	37.7	32.1	5.5	1.2	55.5	53.8	74.0	18.5	20.2
4	9648.0	44.3	42.1	36.6	33.1	6.0	1.1	54.9	52.6	74.0	19.1	21.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12060.0	NS	NS	40.2	33.0	7.5	1.7	-	-	74.0	-	-
6	14472.0	NS	NS	42.7	32.3	8.2	0.8	-	-	74.0	-	-
7	16884.0	NS	NS	45.9	32.1	8.3	1.2	-	-	74.0	-	-
8	19296.0	NS	NS	39.5	31.8	8.4	0.0	-	-	74.0	-	-
9	21708.0	NS	NS	39.8	32.3	8.5	0.0	-	-	74.0	-	-
10	24120.0	48.4	48.5	39.8	31.4	9.2	0.0	56.4	56.5	74.0	17.6	17.5

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	2390.0	32.1	30.2	30.6	32.8	2.9	10.1	42.9	41.0	54.0	11.1	13.0
2	4824.0	28.6	28.3	35.3	31.6	4.1	1.4	37.8	37.6	54.0	16.2	16.5
3	7236.0	30.2	30.1	37.7	32.1	5.5	1.2	42.5	42.3	54.0	11.5	11.7
4	9648.0	31.0	30.2	36.6	33.1	6.0	1.1	41.6	40.8	54.0	12.4	13.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12060.0	NS	NS	40.2	33.0	7.5	1.7	-	-	54.0	-	-
6	14472.0	NS	NS	42.7	32.3	8.2	0.8	-	-	54.0	-	-
7	16884.0	NS	NS	45.9	32.1	8.3	1.2	-	-	54.0	-	-
8	19296.0	NS	NS	39.5	31.8	8.4	0.0	-	-	54.0	-	-
9	21708.0	NS	NS	39.8	32.3	8.5	0.0	-	-	54.0	-	-
10	24120.0	34.5	34.8	39.8	31.4	9.2	0.0	42.5	42.8	54.0	11.5	11.2

* Reference data

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR [dBuV/m]	VER		HOR [dB]	VER [dB]
		[dBuV]										
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2412.0	93.5	91.1	30.5	32.8	3.0	10.1	104.3	101.9	-	-	-
2	2400.0	46.7	44.2	30.5	32.8	3.0	10.1	57.5	55.1	Funda-20dB	26.8	26.9

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.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

*NS: Non Signal

*Used Equipment: MHA-05,MHA-01,MCC-56(Long+Short),MAT-25,MHF-05,MPA-11,MSA-04,MOS-13

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MF060b(01.06.05)

Radiated Spurious Emission (Tx 11b ch Mid)

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

UL Apex Co., Ltd.
Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : Sony Corporation	REPORT NO : 26HE0320-HO
Equipment : Personal Computer	REGULATION : Fcc Part15 Subpart C 15.247(d)
Model : PCG-4H2L	TEST DISTANCE : 3/1m
Sample No. : XTA1-17	DATE : 04/05/2006 : 04/06/2006
Power : AC120V/60Hz(AC Adapter DC out 16V)	TEMPERATURE : 26deg.C : 24deg.C
Mode : WLAN 11b 11Mbps 2437MHz(Aux)	HUMIDITY : 36% : 42%
Remarks : Hor Z , Ver Y-axis	ENGINEER : Makoto Kosaka : Makoto Kosaka

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	4874.0	41.3	41.2	35.5	31.6	4.2	1.4	50.8	50.7	74.0	23.2	23.3
2	7311.0	42.4	41.9	37.7	32.2	5.6	1.1	54.7	54.1	74.0	19.3	19.9
3	9748.0	42.7	41.4	36.5	33.1	6.0	1.1	53.1	51.9	74.0	20.9	22.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	NS	NS	40.3	32.9	7.5	1.7	-	-	74.0	-	-
5	14622.0	NS	NS	42.8	32.4	8.2	0.8	-	-	74.0	-	-
6	17059.0	NS	NS	46.2	32.0	8.3	1.2	-	-	74.0	-	-
7	19496.0	NS	NS	39.7	31.9	8.4	0.0	-	-	74.0	-	-
8	21933.0	NS	NS	40.1	32.1	8.5	0.0	-	-	74.0	-	-
9	24379.0	48.6	48.5	39.8	31.1	9.4	0.0	66.7	66.6	74.0	7.3	7.4

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	4874.0	28.3	28.1	35.5	31.6	4.2	1.4	37.8	37.6	54.0	16.2	16.4
2	7311.0	30.1	30.1	37.7	32.2	5.6	1.1	42.3	42.4	54.0	11.7	11.6
3	9748.0	29.6	30.0	36.5	33.1	6.0	1.1	40.0	40.4	54.0	14.0	13.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	NS	NS	40.3	32.9	7.5	1.7	-	-	54.0	-	-
5	14622.0	NS	NS	42.8	32.4	8.2	0.8	-	-	54.0	-	-
6	17059.0	NS	NS	46.2	32.0	8.3	1.2	-	-	54.0	-	-
7	19496.0	NS	NS	39.7	31.9	8.4	0.0	-	-	54.0	-	-
8	21933.0	NS	NS	40.1	32.1	8.5	0.0	-	-	54.0	-	-
9	24379.0	34.5	34.5	39.8	31.1	9.4	0.0	43.1	43.1	54.0	10.9	10.9

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.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

*NS: Non Signal

*Used Equipment: MHA-05,MHA-01,MCC-56(Long+Short),MAT-25,MHF-05,MPA-11,MSA-04,MOS-13

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MF060b(01.06.05)

Radiated Spurious Emission (Tx 11b ch High)

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

UL Apex Co., Ltd.

Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Personal Computer
Model : PCG-4H2L
Sample No. : XTA1-17
Power : AC120V/60Hz(AC Adapter DC out 16V)
Mode : WLAN 11b 11Mbps 2462MHz(Aux)
Remarks : Hor Z, Ver Y-axis

REPORT NO : 26HE0320-HO
REGULATION : Fcc Part15 Subpart C 15.247(d)
TEST DISTANCE : 3/1m
DATE : 04/05/2006
TEMPERATURE : 26deg.C
HUMIDITY : 36%
ENGINEER : Makoto Kosaka

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	2483.5	48.9	46.6	30.4	32.8	3.0	10.2	59.7	57.3	74.0	14.4	16.7
2	4924.0	40.4	40.7	35.8	31.6	4.2	1.4	50.2	50.5	74.0	23.9	23.5
3	7386.0	30.2	43.3	37.8	32.2	5.6	1.1	42.4	55.6	74.0	31.6	18.4
4	9848.0	41.7	43.3	36.4	33.2	6.0	1.2	52.1	53.6	74.0	22.0	20.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	NS	NS	40.4	32.9	7.6	1.6	-	-	74.0	-	-
6	14772.0	NS	NS	42.9	32.4	8.2	0.9	-	-	74.0	-	-
7	17234.0	NS	NS	46.4	31.9	8.3	1.5	-	-	74.0	-	-
8	19696.0	NS	NS	39.5	31.9	8.4	0.0	-	-	74.0	-	-
9	22158.0	NS	NS	40.1	32.1	8.6	0.0	-	-	74.0	-	-
10	24620.0	48.6	48.7	39.9	30.8	9.5	0.0	57.7	57.8	74.0	16.3	16.2

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	2483.5	34.3	33.1	30.4	32.8	3.0	10.2	45.1	43.8	54.0	9.0	10.2
2	4924.0	28.4	27.9	35.8	31.6	4.2	1.4	38.1	37.7	54.0	15.9	16.3
3	7386.0	30.2	29.4	37.8	32.2	5.6	1.1	42.5	41.7	54.0	11.5	12.3
4	9848.0	30.2	30.1	36.4	33.2	6.0	1.2	40.5	40.4	54.0	13.5	13.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	NS	NS	40.4	32.9	7.6	1.6	-	-	54.0	-	-
6	14772.0	NS	NS	42.9	32.4	8.2	0.9	-	-	54.0	-	-
7	17234.0	NS	NS	46.4	31.9	8.3	1.5	-	-	54.0	-	-
8	19696.0	NS	NS	39.5	31.9	8.4	0.0	-	-	54.0	-	-
9	22158.0	NS	NS	40.1	32.1	8.6	0.0	-	-	54.0	-	-
10	24620.0	34.2	34.5	39.9	30.8	9.5	0.0	43.3	43.6	54.0	10.7	10.4

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.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

*NS: Non Signal

*Used Equipment: MHA-05,MHA-01,MCC-56(Long+Short),MAT-25,MHF-05,MPA-11,MSA-04,MOS-13

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Radiated Spurious Emission (Rx 11b ch Mid)

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

UL Apex Co., Ltd.

Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : Sony Corporation	REPORT NO : 26HE0320-HO
Equipment : Personal Computer	REGULATION : Fcc Part15 Subpa C
Model : PCG-4H2L	TEST DISTANCE : 3/1m
Sample No. : XTA1-17	DATE : 04/06/2006
Power : AC120V/60Hz(AC Adapter DC out 16V)	TEMPERATURE : 22deg.C
Mode : Rx WLAN 11b 11Mbps 2437MHz Aux	HUMIDITY : 38%
Remarks : Hor Z , Ver Y-axis	ENGINEER : Makoto Kosaka

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

TEST REPORT (KHz: 1300-1400, 1500-1600)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	1301.2	46.4	46.8	23.9	34.7	2.2	0.0	37.7	38.1	74.0	36.3	35.9
2	1591.5	49.1	46.4	25.7	34.0	2.4	0.0	43.2	40.5	74.0	30.8	33.5

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

(ROW: 1012Z, VER: 1012Z)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [dB]	RESULT		Limit	MARGIN	
		HOR	VER					HOR	VER	AV	HOR	VER
		[dBuV]						[dBuV/m]		[dBuV/m]		[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1301.2	37.3	38.0	23.9	34.7	2.2	0.0	28.7	29.4	54.0	25.3	24.6
2	1591.5	34.8	35.0	25.7	34.0	2.4	0.0	28.9	29.1	54.0	25.1	24.9

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

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

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*NS: Non Signal

*Used Equipment: MHA-05,MCC-56(Long+Short),MPA-11,MSA-04,MOS-13

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Radiated Spurious Emission (Tx 11g ch Low)

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

Company : Sony Corporation Equipment : Personal Computer Model : PCG-4H2L Sample No. : XTA1-17 Power : AC120V/60Hz(AC Adapter DC out 16V) Mode : WLAN 11g 54Mbps 2412MHz(Aux) Remarks : Hor Z , Ver Y-axis	REPORT NO : 26HE0320-HO REGULATION : Fcc Part15 Subpart C 15.247(d) TEST DISTANCE : 3/1m DATE : 04/05/2006 TEMPERATURE : 26deg.C HUMIDITY : 36% ENGINEER : Makoto Kosaka	UL Apex Co., Ltd. Head Office EMC Lab. No.3Semi Anechoic Chamber
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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 or ATT [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	2390.0	62.8	58.6	30.6	32.8	2.9	10.1	73.6	69.4	74.0	0.4	4.6
2	4824.0	NS	NS	35.3	31.6	4.1	1.4	-	-	74.0	-	-
3	7236.0	NS	NS	37.7	32.1	5.5	1.2	-	-	74.0	-	-
4	9648.0	NS	NS	36.6	33.1	6.0	1.1	-	-	74.0	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12060.0	NS	47.3	40.2	33.0	7.5	1.7	-	54.3	74.0	-	19.7
6	14472.0	NS	NS	42.7	32.3	8.2	0.8	-	-	74.0	-	-
7	16884.0	NS	NS	45.9	32.1	8.3	1.2	-	-	74.0	-	-
8	19296.0	NS	NS	39.5	31.8	8.4	0.0	-	-	74.0	-	-
9	21708.0	NS	NS	39.8	32.3	8.5	0.0	-	-	74.0	-	-
10	24120.0	48.1	48.2	39.8	31.4	9.2	0.0	56.1	56.2	74.0	17.9	17.8

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	2390.0	38.0	35.1	30.6	32.8	2.9	10.1	48.8	45.9	54.0	5.2	8.1
2	4824.0	NS	NS	35.3	31.6	4.1	1.4	-	-	54.0	-	-
3	7236.0	NS	NS	37.7	32.1	5.5	1.2	-	-	54.0	-	-
4	9648.0	NS	NS	36.6	33.1	6.0	1.1	-	-	54.0	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12060.0	NS	30.8	40.2	33.0	7.5	1.7	-	37.8	54.0	-	16.2
6	14472.0	NS	NS	42.7	32.3	8.2	0.8	-	-	54.0	-	-
7	16884.0	NS	NS	45.9	32.1	8.3	1.2	-	-	54.0	-	-
8	19296.0	NS	NS	39.5	31.8	8.4	0.0	-	-	54.0	-	-
9	21708.0	NS	NS	39.8	32.3	8.5	0.0	-	-	54.0	-	-
10	24120.0	34.6	34.8	39.8	31.4	9.2	0.0	42.6	42.8	54.0	11.4	11.2

* Reference data

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR [dBuV/m]	VER [dB]		HOR [dB]	VER [dB]
		[dBuV]										
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2412.0	84.4	81.2	30.5	32.8	3.0	10.1	95.2	92.0	-	-	-
2	2400.0	60.7	57.3	30.5	32.8	3.0	10.1	71.5	68.1	Funda-20dB	3.7	3.8

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.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

*NS: Non Signal

*Used Equipment: MHA-05,MHA-01,MCC-56(Long+Short),MAT-25,MHF-05,MPA-11,MSA-04,MOS-13

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Radiated Spurious Emission (Tx 11g ch Mid)

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

UL Apex Co., Ltd.

Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Personal Computer
Model : PCG-4H2L
Sample No. : XTA1-17
Power : AC120V/60Hz(AC Adapter DC out 16V)
Mode : WLAN 11g 54Mbps 2437MHz(Aux)
Remarks : Hor Z, Ver Y-axis

REPORT NO : 26HE0320-HO
REGULATION : Fcc Part15 Subpart C 15.247(d)
TEST DISTANCE : 3/1m
DATE : 04/05/2006 : 04/06/2006
TEMPERATURE : 26deg.C : 24deg.C
HUMIDITY : 36% : 42%
ENGINEER : Makoto Kosaka : Makoto Kosaka

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	4874.0	NS	NS	35.5	31.6	4.2	1.4	-	-	74.0	-	-
2	7311.0	NS	NS	37.7	32.2	5.6	1.1	-	-	74.0	-	-
3	9748.0	NS	NS	36.5	33.1	6.0	1.1	-	-	74.0	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	NS	44.6	40.3	32.9	7.5	1.7	-	61.1	74.0	-	12.9
5	14622.0	NS	NS	42.8	32.4	8.2	0.8	-	-	74.0	-	-
6	17059.0	NS	NS	46.2	32.0	8.3	1.2	-	-	74.0	-	-
7	19496.0	NS	NS	39.7	31.9	8.4	0.0	-	-	74.0	-	-
8	21933.0	NS	NS	40.1	32.1	8.5	0.0	-	-	74.0	-	-
9	24379.0	48.6	48.5	39.8	31.1	9.4	0.0	66.7	66.6	74.0	7.3	7.4

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	4874.0	NS	NS	35.5	31.6	4.2	1.4	-	-	54.0	-	-
2	7311.0	NS	NS	37.7	32.2	5.6	1.1	-	-	54.0	-	-
3	9748.0	NS	NS	36.5	33.1	6.0	1.1	-	-	54.0	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	NS	29.7	40.3	32.9	7.5	1.7	-	36.7	54.0	-	17.3
5	14622.0	NS	NS	42.8	32.4	8.2	0.8	-	-	54.0	-	-
6	17059.0	NS	NS	46.2	32.0	8.3	1.2	-	-	54.0	-	-
7	19496.0	NS	NS	39.7	31.9	8.4	0.0	-	-	54.0	-	-
8	21933.0	NS	NS	40.1	32.1	8.5	0.0	-	-	54.0	-	-
9	24379.0	34.4	34.4	39.8	31.1	9.4	0.0	43.0	42.9	54.0	11.0	11.1

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

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

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

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

*NS: Non Signal

*Used Equipment: MHA-05,MHA-01,MCC-56(Long+Short),MAT-25,MHF-05,MPA-11,MSA-04,MOS-13

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Radiated Spurious Emission (Tx 11g ch High)

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

Company : Sony Corporation Equipment : Personal Computer Model : PCG-4H2L Sample No. : XTA1-17 Power : AC120V/60Hz(AC Adapter DC out 16V) Mode : WLAN 11g 54Mbps 2462MHz(Aux) Remarks : Hor Z, Ver Y-axis PK DETECT (RBW: 1MHz, VBW: 1MHz)	REPORT NO : REGULATION : TEST DISTANCE : DATE : TEMPERATURE : HUMIDITY : ENGINEER :	UL Apex Co., Ltd. Head Office EMC Lab. No.3Semi Anechoic Chamber : 26HE0320-HO : Fcc Part15 Subpart C 15.247(d) : 3/1m : 04/05/2006 : 26deg.C : 36% : Makoto Kosaka
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No.	FREQ	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
	[MHz]	HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	59.9	58.9	30.4	32.8	3.0	10.2	70.6	69.6	74.0	3.4	4.4
2	4924.0	NS	NS	35.8	31.6	4.2	1.4	-	-	74.0	-	-
3	7386.0	NS	NS	37.8	32.2	5.6	1.1	-	-	74.0	-	-
4	9848.0	NS	NS	36.4	33.2	6.0	1.2	-	-	74.0	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	NS	43.9	40.4	32.9	7.6	1.6	-	51.1	74.0	-	22.9
6	14772.0	NS	NS	42.9	32.4	8.2	0.9	-	-	74.0	-	-
7	17234.0	NS	NS	46.4	31.9	8.3	1.5	-	-	74.0	-	-
8	19696.0	NS	NS	39.5	31.9	8.4	0.0	-	-	74.0	-	-
9	22158.0	NS	NS	40.1	32.1	8.6	0.0	-	-	74.0	-	-
10	24620.0	46.5	46.7	39.9	30.8	9.5	0.0	55.6	55.8	74.0	18.4	18.2

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

No.	FREQ	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
	[MHz]	HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	35.2	34.5	30.4	32.8	3.0	10.2	45.9	45.2	54.0	8.1	8.8
2	4924.0	NS	NS	35.8	31.6	4.2	1.4	-	-	54.0	-	-
3	7386.0	NS	NS	37.8	32.2	5.6	1.1	-	-	54.0	-	-
4	9848.0	NS	NS	36.4	33.2	6.0	1.2	-	-	54.0	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	NS	29.4	40.4	32.9	7.6	1.6	-	36.6	54.0	-	17.4
6	14772.0	NS	NS	42.9	32.4	8.2	0.9	-	-	54.0	-	-
7	17234.0	NS	NS	46.4	31.9	8.3	1.5	-	-	54.0	-	-
8	19696.0	NS	NS	39.5	31.9	8.4	0.0	-	-	54.0	-	-
9	22158.0	NS	NS	40.1	32.1	8.6	0.0	-	-	54.0	-	-
10	24620.0	33.2	33.0	39.9	30.8	9.5	0.0	42.3	42.1	54.0	11.7	11.9

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.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

*Used Equipment: MHA-05,MHA-01,MCC-56(Long+Short),MAT-25,MHF-05,MPA-11,MSA-04,MOS-13

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MF060b(01.06.05)

Radiated Spurious Emission (Rx 11g ch Mid)

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

UL Apex Co., Ltd.
Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : Sony Corporation	REPORT NO : 26HE0320-HO
Equipment : Personal Computer	REGULATION : Fcc Part15 Subpar C
Model : PCG-4H2L	TEST DISTANCE : 3/1m
Sample No. : XTA1-17	DATE : 04/06/2006
Power : AC120V/60Hz(AC Adapter DC out 16V)	TEMPERATURE : 22deg.C
Mode : Rx WLAN 11g 54Mbps 2437MHz Aux	HUMIDITY : 38%
Remarks : Hor Z , Ver Y-axis	ENGINEER : Makoto Kosaka

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	1301.2	46.2	45.6	23.9	34.7	2.2	0.0	37.6	37.0	74.0	36.4	37.1
2	1591.5	49.4	47.0	25.7	34.0	2.4	0.0	43.5	41.1	74.0	30.5	32.9

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [dB]	RESULT		Limit	MARGIN	
		HOR	VER					HOR	VER	AV	HOR	VER
		[dBuV]						[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1301.2	37.3	36.8	23.9	34.7	2.2	0.0	28.7	28.1	54.0	25.3	25.9
2	1591.5	35.2	34.6	25.7	34.0	2.4	0.0	29.3	28.7	54.0	24.7	25.3

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

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

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*NS: Non Signal

*Used Equipment: MHA-05,MCC-56(Long+Short),MPA-11,MSA-04,MOS-13

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MF060b(01.06.05)

Radiated Spurious Emission (Tx 11a HighBand ch Low)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3Semi Anechoic Chamber

Company	: Sony Corporation	REPORT NO	: 26HE0320-HO
Equipment	: Personal Computer	REGULATION	: Fcc Part15 Subpart C 15.247(d)
Model	: PCG-4H2L	TEST DISTANCE	: 3 / 1 / 0.3 m
Sample No.	: XTA1-17	DATE	: 04/07/2006 , 04/10/2006
Power	: AC120V/60Hz(AC Adapter DC out 16V)	TEMPERATURE	: 24deg.C , 22deg.C
Mode	: WLAN 11a 54Mbps 5745MHz(Main)	HUMIDITY	: 31% , 44%
Remarks	: Hor Z , Ver Z-axis	ENGINEER	: Makoto Kosaka

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	1199.0	48.4	53.5	23.7	34.8	3.2	0.0	40.5	45.6	74.0	33.5	28.4
2	1596.4	52.8	52.3	25.9	33.8	3.5	0.0	48.4	47.9	74.0	25.6	26.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
3	11490.0	42.5	41.6	38.2	33.1	9.3	0.2	47.6	46.7	74.0	26.4	27.3
4	17235.0	NS	NS	46.4	32.3	12.1	0.8	-	-	74.0	-	-
5	22980.0	NS	NS	45.9	32.1	13.5	1.2	-	-	74.0	-	-
Test distance 0.3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
6	28725.0	NS	NS	39.5	31.8	15.6	0.0	-	-	74.0	-	-
7	34470.0	NS	NS	39.8	32.3	16.4	0.0	-	-	74.0	-	-

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	1199.0	31.5	33.0	23.7	34.8	3.2	0.0	23.6	25.1	54.0	30.4	28.9
2	1596.4	32.1	33.5	25.9	33.8	3.5	0.0	27.7	29.1	54.0	26.3	24.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
3	11490.0	30.8	30.0	38.2	33.1	9.3	0.2	35.9	35.1	54.0	18.1	18.9
4	17235.0	NS	NS	46.4	32.3	12.1	0.8		-	54.0	-	-
5	22980.0	NS	NS	45.9	32.1	13.5	1.2	-	-	54.0	-	-
Test distance 0.3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
5	28725.0	NS	NS	39.5	31.8	15.6	0.0	-	-	54.0	-	-
7	34470.0	NS	NS	39.8	32.3	16.4	0.0	-	-	54.0	-	-

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.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

*NS: Non Signal

*Used Equipment: MHA-05,MHA-04,MHA-02,MCC-53(Long+Short),MBF-03,MPA-01,MPA-03,MSA-03,MRENT-23,MOS-13

Radiated Spurious Emission (Tx 11a HighBand ch Mid)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : Sony Corporation	REPORT NO : 26HE0320-HO
Equipment : Personal Computer	REGULATION : Fcc Part15 Subpart C 15.247(d)
Model : PCG-4H2L	TEST DISTANCE : 3 / 1 / 0.3 m
Sample No. : XTA1-17	DATE : 04/07/2006 , 04/10/2006
Power : AC120V/60Hz(AC Adapter DC out 16V)	TEMPERATURE : 24deg.C , 22deg.C
Mode : WLAN 11a 54Mbps 5765MHz(Main)	HUMIDITY : 31% , 44%
Remarks : Hor Z , Ver Z-axis	ENGINEER : Makoto Kosaka

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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												
2	1596.9	51.3	52.1	25.9	33.8	3.5	0.0	46.9	47.7	74.0	27.1	26.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
3	11530.0	44.2	41.1	38.4	33.1	9.3	0.2	49.5	46.4	74.0	24.5	27.6
4	17295.0	NS	NS	46.4	32.3	12.1	0.8	-	-	74.0	-	-
5	23060.0	NS	NS	45.9	32.1	13.5	1.2	-	-	74.0	-	-
Test distance 0.3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
6	28825.0	NS	NS	39.5	31.8	15.6	0.0	-	-	74.0	-	-
7	34590.0	NS	NS	39.8	32.3	16.5	0.0	-	-	74.0	-	-

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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												
2	1596.9	32.4	32.4	25.9	33.8	3.5	0.0	28.0	28.0	54.0	26.0	26.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
3	11530.0	32.0	30.5	38.4	33.1	9.3	0.2	37.3	35.8	54.0	16.7	18.2
4	17295.0	NS	NS	46.4	32.3	12.1	0.8		-	54.0	-	-
5	23060.0	NS	NS	45.9	32.1	13.5	1.2		-	54.0	-	-
Test distance 0.3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
5	28825.0	NS	NS	39.5	31.8	15.6	0.0	-	-	54.0	-	-
7	34590.0	NS	NS	39.8	32.3	16.5	0.0	-	-	54.0	-	-

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.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

*NS: Non Signal

*Used Equipment: MHA-05,MHA-04,MHA-02,MCC-53(Long+Short),MBF-03,MPA-01,MPA-03,MSA-03,MRENT-23,MOS-13

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MF060b(01.06.05)

Radiated Spurious Emission (Tx 11a HighBand ch High)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : Sony Corporation	REPORT NO : 26HE0320-HO
Equipment : Personal Computer	REGULATION : Fcc Part15 Subpart C 15.247(d)
Model : PCG-4H2L	TEST DISTANCE : 3 / 1 / 0.3 m
Sample No. : XTA1-17	DATE : 04/07/2006 , 04/10/2006
Power : AC120V/60Hz(AC Adapter DC out 16V)	TEMPERATURE : 24deg.C , 22deg.C
Mode : WLAN 11a 54Mbps 5825MHz(Main)	HUMIDITY : 31% , 44%
Remarks : Hor Z , Ver Z-axis	ENGINEER : Makoto Kosaka

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	1597.5	53.4	54.4	25.8	33.8	3.5	0.0	48.9	49.9	74.0	25.1	24.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
2	11650.0	44.4	43.4	38.8	33.1	9.3	0.3	50.2	49.2	74.0	23.8	24.9
3	17475.0	NS	NS	46.6	32.3	12.1	0.8	-	-	74.0	-	-
4	23300.0	NS	NS	45.9	32.1	13.6	1.2	-	-	74.0	-	-
Test distance 0.3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
5	29125.0	NS	NS	39.5	31.8	15.6	0.0	-	-	74.0	-	-
6	34950.0	NS	NS	39.8	32.3	16.5	0.0	-	-	74.0	-	-

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	1597.5	31.5	32.1	25.8	33.8	3.5	0.0	27.0	27.6	54.0	27.0	26.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
2	11650.0	30.6	30.6	38.8	33.1	9.3	0.3	36.4	36.4	54.0	17.6	17.6
3	17475.0	NS	NS	46.6	32.3	12.1	0.8	-	-	54.0	-	-
4	23300.0	NS	NS	45.9	32.1	13.6	1.2	-	-	54.0	-	-
Test distance 0.3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
5	29125.0	NS	NS	39.5	31.8	15.6	0.0	-	-	54.0	-	-
6	34950.0	NS	NS	39.8	32.3	16.5	0.0	-	-	54.0	-	-

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.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

*NS: Non Signal

*Used Equipment: MHA-05,MHA-04,MHA-02,MCC-53(Long+Short),MBF-03,MPA-01,MPA-03,MSA-03,MRENT-23,MOS-13

Radiated Spurious Emission (Rx 11a HighBand ch Mid)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : Sony Corporation	REPORT NO : 26HE0320-HO
Equipment : Personal Computer	REGULATION : Fcc Part15 Subpart B
Model : PCG-4H2L	TEST DISTANCE : 3/1m
Sample No. : XTA1-17	DATE : 04/07/2006
Power : AC120V/60Hz(AC Adapter DC out 16V)	TEMPERATURE : 24deg.C
Mode : Rx WLAN 11a 54Mbps 5765MHz	HUMIDITY : 31%
Remarks : Hor Z , Ver Z-axis	ENGINEER : Makoto Kosaka

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	1597.7	52.2	51.5	25.9	33.8	3.5	0.0	47.8	47.1	74.0	26.2	26.9

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	1597.7	32.4	32.3	25.9	33.8	3.5	0.0	28.0	27.9	54.0	26.0	26.1

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

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

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*NS: Non Signal

*Used Equipment: MHA-05,MCC-56(Long+Short),MPA-11,MSA-04,MOS-13

Radiated Spurious Emission (Tx 11g ch Low + BT Hopping)

UL Apex Co., Ltd.

Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Personal Computer
Model : PCG-4H2L
Sample No. : XTA1-17
Power : AC120V/60Hz(AC Adapter DC out 16V)
Mode : WLAN 11g 54Mbps 2412MHz(Aux) + BT Hopping
Remarks : Hor Z , Ver Y-axis

REPORT NO : 26HE0320-HO
REGULATION : Fcc Part15 Subpart C 15.247(d)
TEST DISTANCE : 3/1m
DATE : 04/11/2006
TEMPERATURE : 22deg.C
HUMIDITY : 44%
ENGINEER : Makoto Kosaka

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	2390.0	62.4	56.9	30.6	32.8	2.9	9.5	72.6	67.1	74.0	1.4	7.0
2	4824.0	NS	NS	35.3	31.6	4.1	1.4	-	-	74.0	-	-
3	7236.0	NS	NS	37.7	32.1	5.5	1.2	-	-	74.0	-	-
4	9648.0	NS	NS	36.6	33.1	6.0	1.1	-	-	74.0	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12060.0	46.9	47.9	40.2	36.1	9.5	1.7	52.7	53.7	74.0	21.3	20.3
6	14472.0	NS	NS	42.7	32.3	8.2	0.8	-	-	74.0	-	-
7	16884.0	NS	NS	45.9	32.1	8.3	1.2	-	-	74.0	-	-
8	19296.0	NS	NS	39.5	31.8	8.4	0.0	-	-	74.0	-	-
9	21708.0	NS	NS	39.8	32.3	8.5	0.0	-	-	74.0	-	-
10	24120.0	NS	NS	39.8	31.4	9.2	0.0	-	-	74.0	-	-

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	2390.0	37.9	35.1	30.6	32.8	2.9	9.5	48.1	45.3	54.0	5.9	8.7
2	4824.0	NS	NS	35.3	31.6	4.1	1.4	-	-	54.0	-	-
3	7236.0	NS	NS	37.7	32.1	5.5	1.2	-	-	54.0	-	-
4	9648.0	NS	NS	36.6	33.1	6.0	1.1	-	-	54.0	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12060.0	32.5	32.9	40.2	36.1	9.5	1.7	38.3	38.7	54.0	15.7	15.3
6	14472.0	NS	NS	42.7	32.3	8.2	0.8	-	-	54.0	-	-
7	16884.0	NS	NS	45.9	32.1	8.3	1.2	-	-	54.0	-	-
8	19296.0	NS	NS	39.5	31.8	8.4	0.0	-	-	54.0	-	-
9	21708.0	NS	NS	39.8	32.3	8.5	0.0	-	-	54.0	-	-
10	24120.0	NS	NS	39.8	31.4	9.2	0.0	-	-	54.0	-	-

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	2412.0	82.4	78.5	30.6	32.8	3.0	9.5	92.7	88.8	-	-	-
2	2400.0	58.0	53.4	30.6	32.8	3.0	9.5	68.3	63.6	Funda-20dB	4.4	5.2

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.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

*NS: Non Signal

*Used Equipment: MHA-05,MHA-06,MHA-02,MCC-53(Long+Short),MCC-56(Long+Short),MHF-05,MPA-11,MAT-24,MRENT-23,MOS-13

UL Apex Co., Ltd.

Head Office EMC Lab.

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MF060b(01.06.05)

Restricted BandEdges (Tx 11g ch High + BT Hopping)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Personal Computer
Model : PCG-4H2L
Sample No. : XTA1-17
Power : AC120V/60Hz(AC Adapter DC out 16V)
Mode : WLAN 11g 54Mbps 2462MHz(Aux) + BT Hopping
Remarks : Hor Z, Ver Y-axis

REPORT NO : 26HE0320-HO
REGULATION : Fcc Part15 Subpart C 15.247(d)
TEST DISTANCE : 3/1m
DATE : 04/11/2006
TEMPERATURE : 22deg.C
HUMIDITY : 44%
ENGINEER : Makoto Kosaka

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	2483.5	59.1	58.2	30.4	32.8	3.0	9.5	69.2	68.2	74.0	4.8	5.8

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass or ATT [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	2483.5	35.4	35.3	30.4	32.8	3.0	9.5	45.5	45.3	54.0	8.5	8.7

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.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

*Used Equipment: MHA-06,MCC-56(Long+Short),MPA-11,MAT-24,MRENT-23,MOS-13

UL Apex Co., Ltd.

Head Office EMC Lab.

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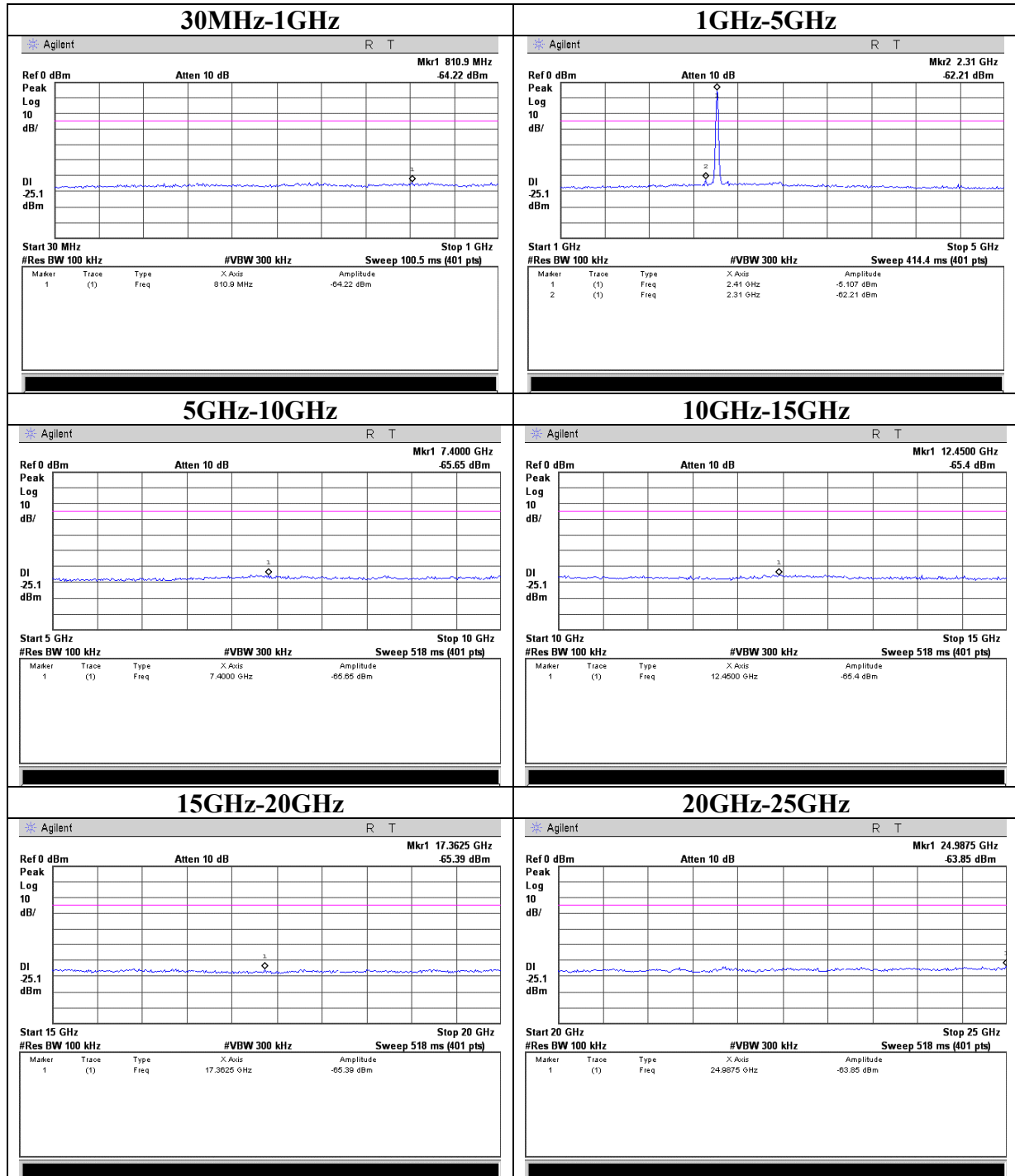
Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(01.06.05)

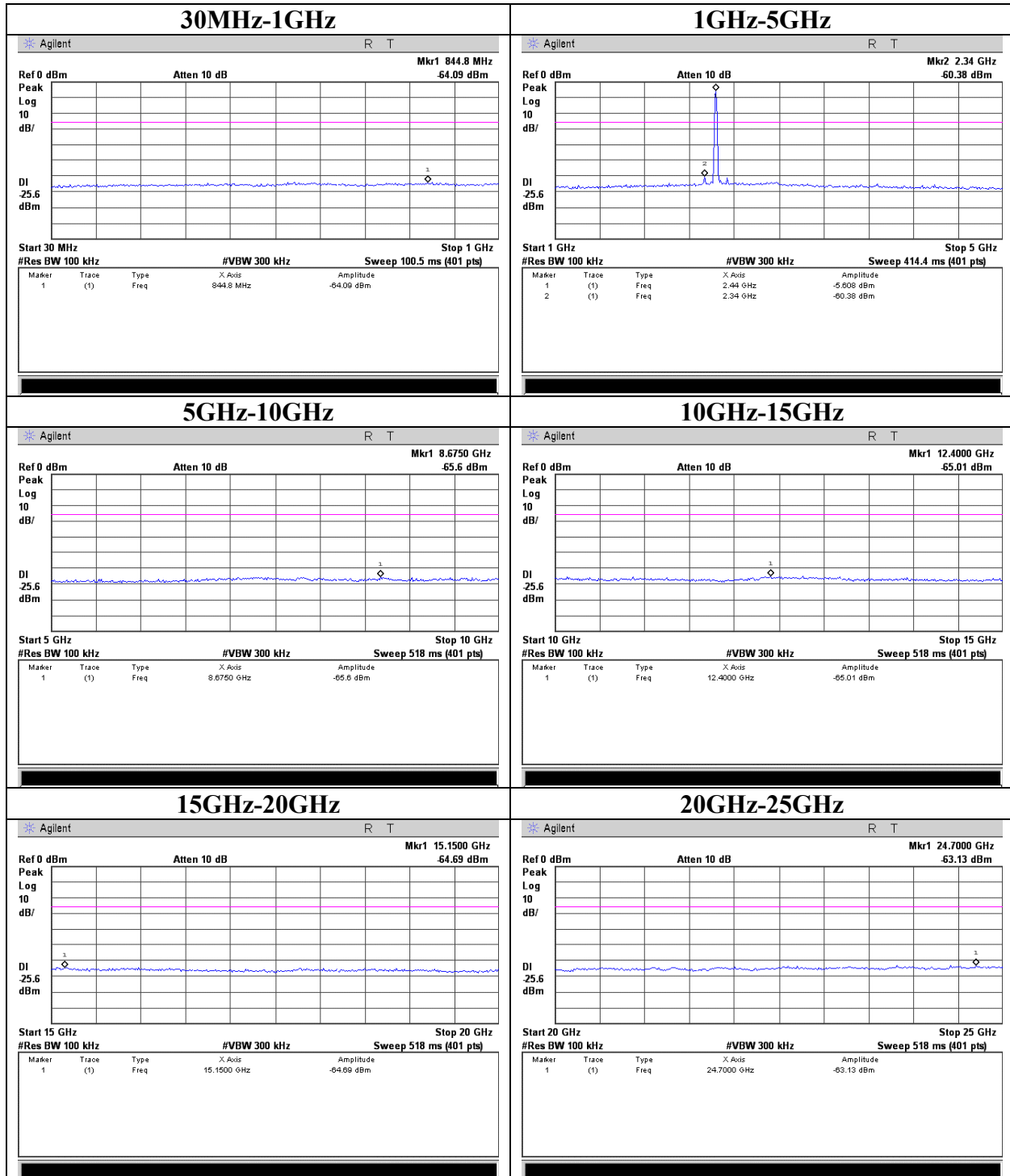
Conducted Spurious Emission(11b/11Mbps/Main antenna)

Ch: Low



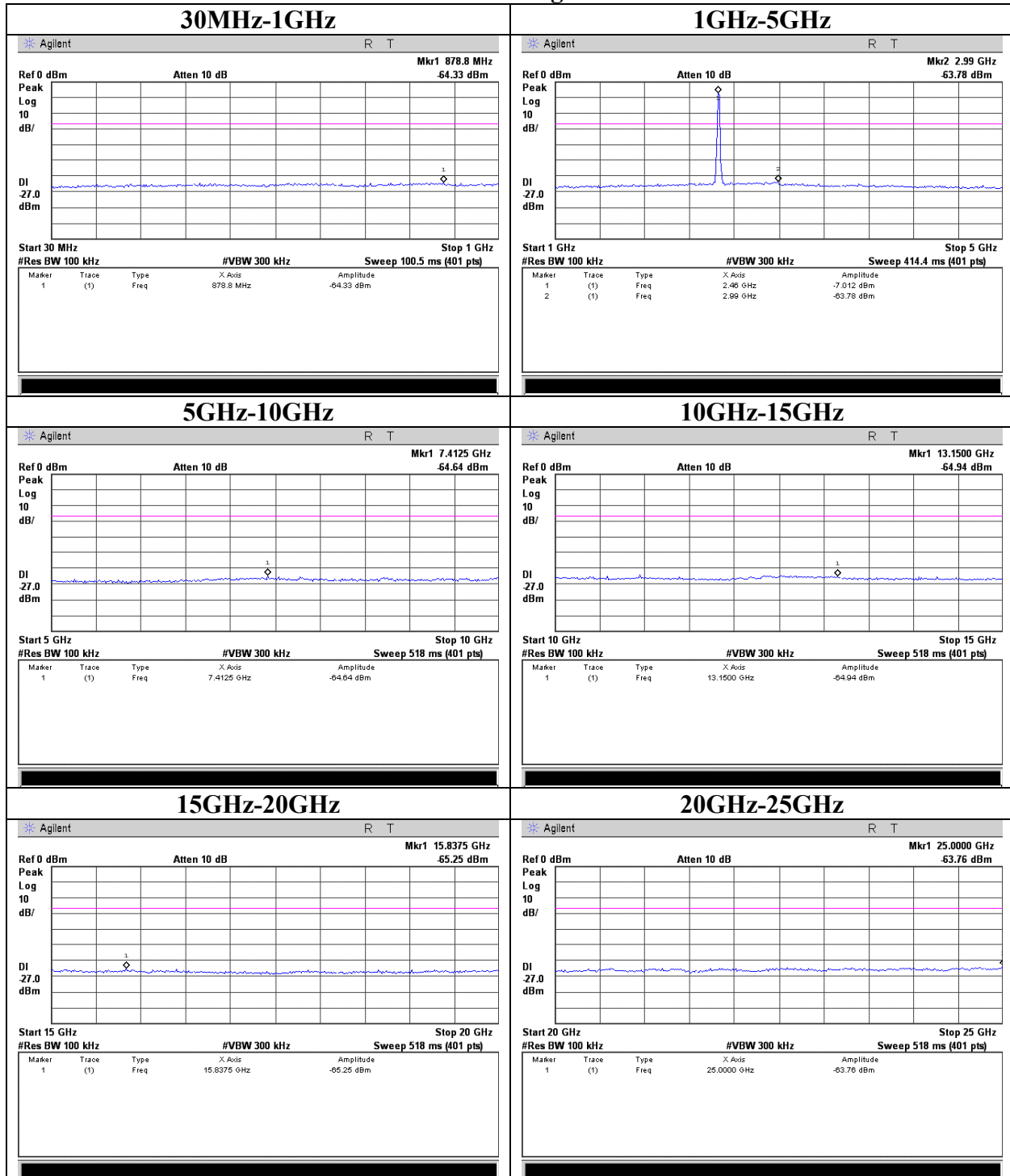
Conducted Spurious Emission(11b/11Mbps/Main antenna)

Ch: Mid



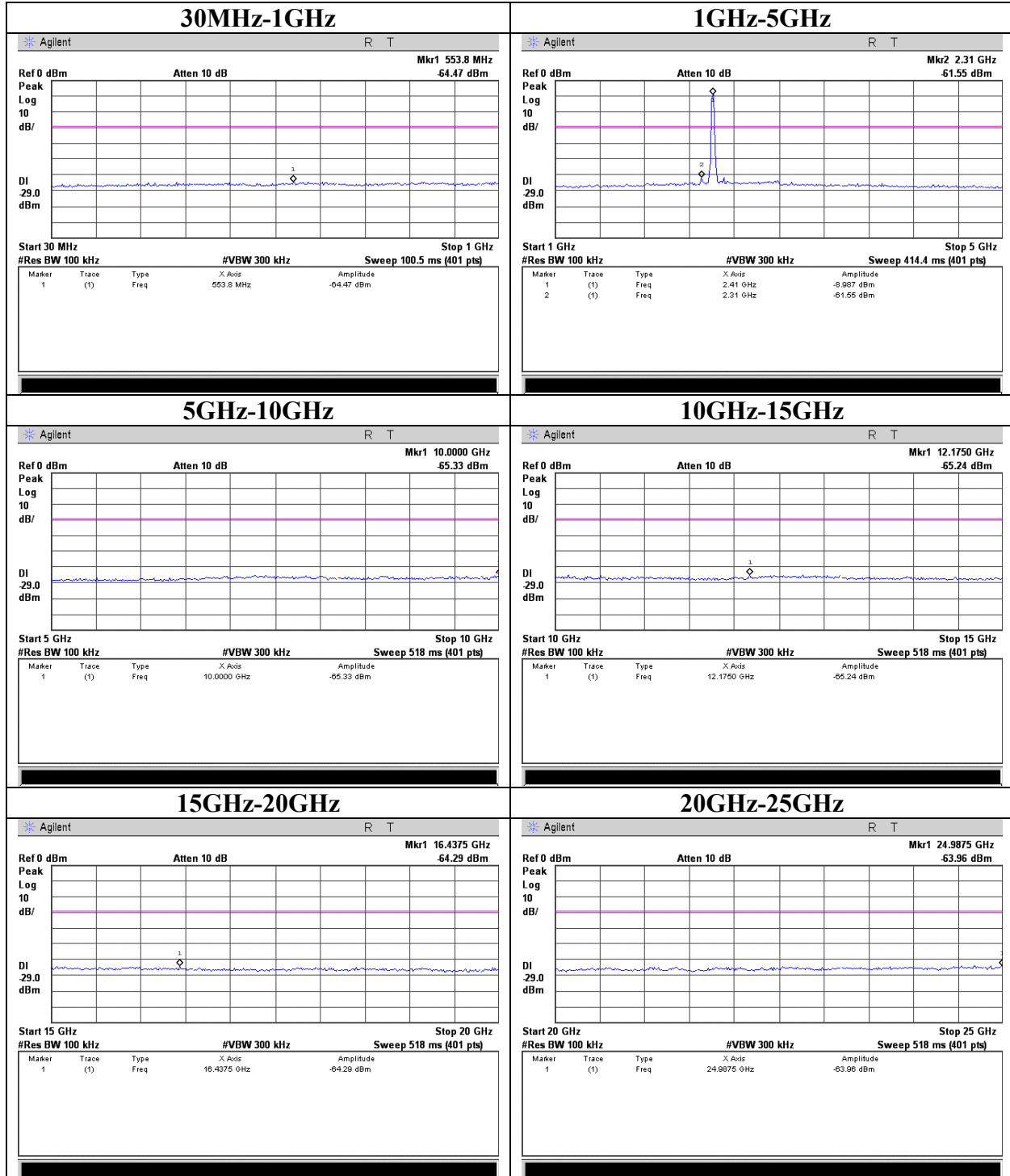
Conducted Spurious Emission(11b/11Mbps/Main antenna)

Ch: High



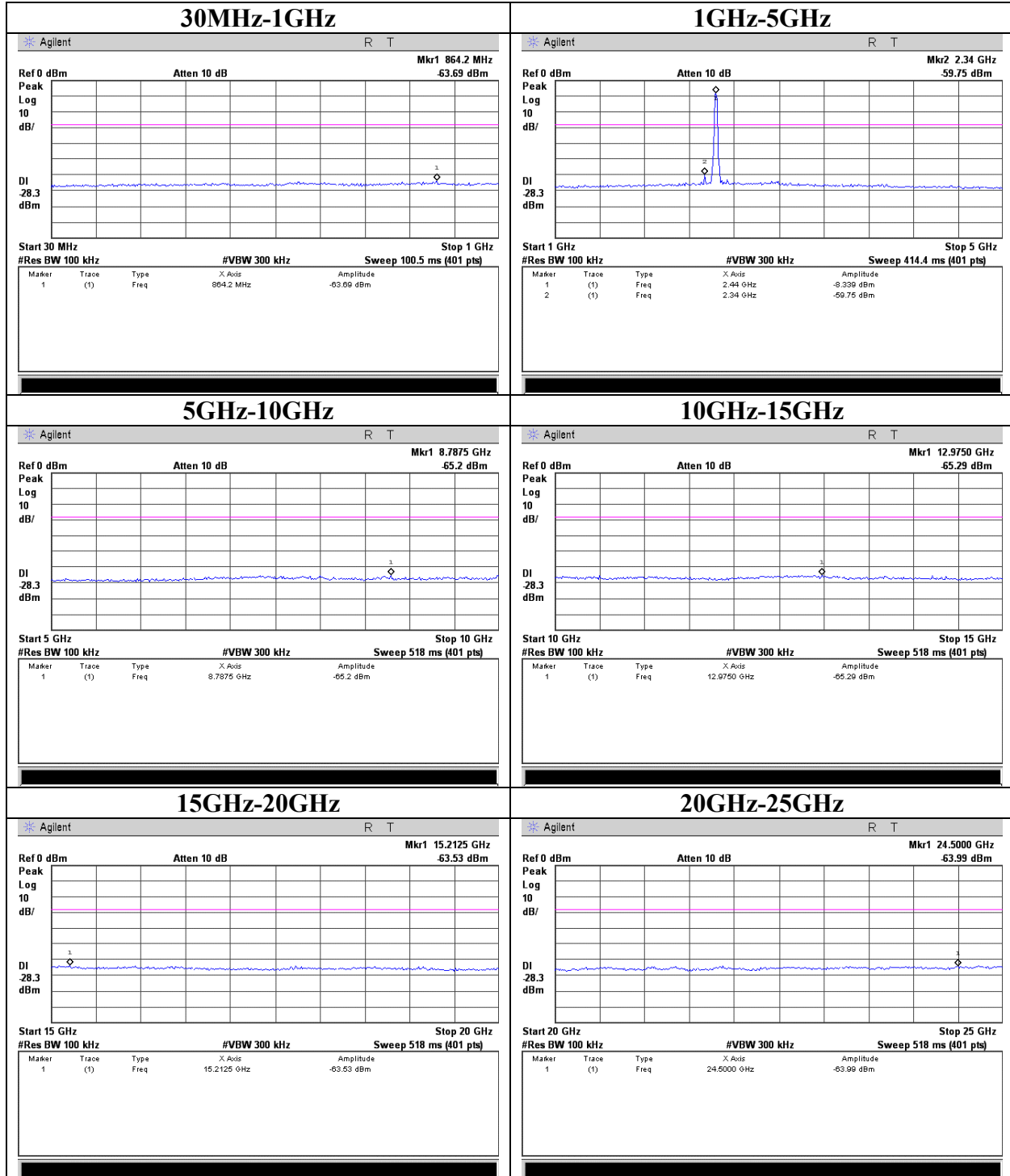
Conducted Spurious Emission(11g/54Mbps/Main antenna)

Ch: Low



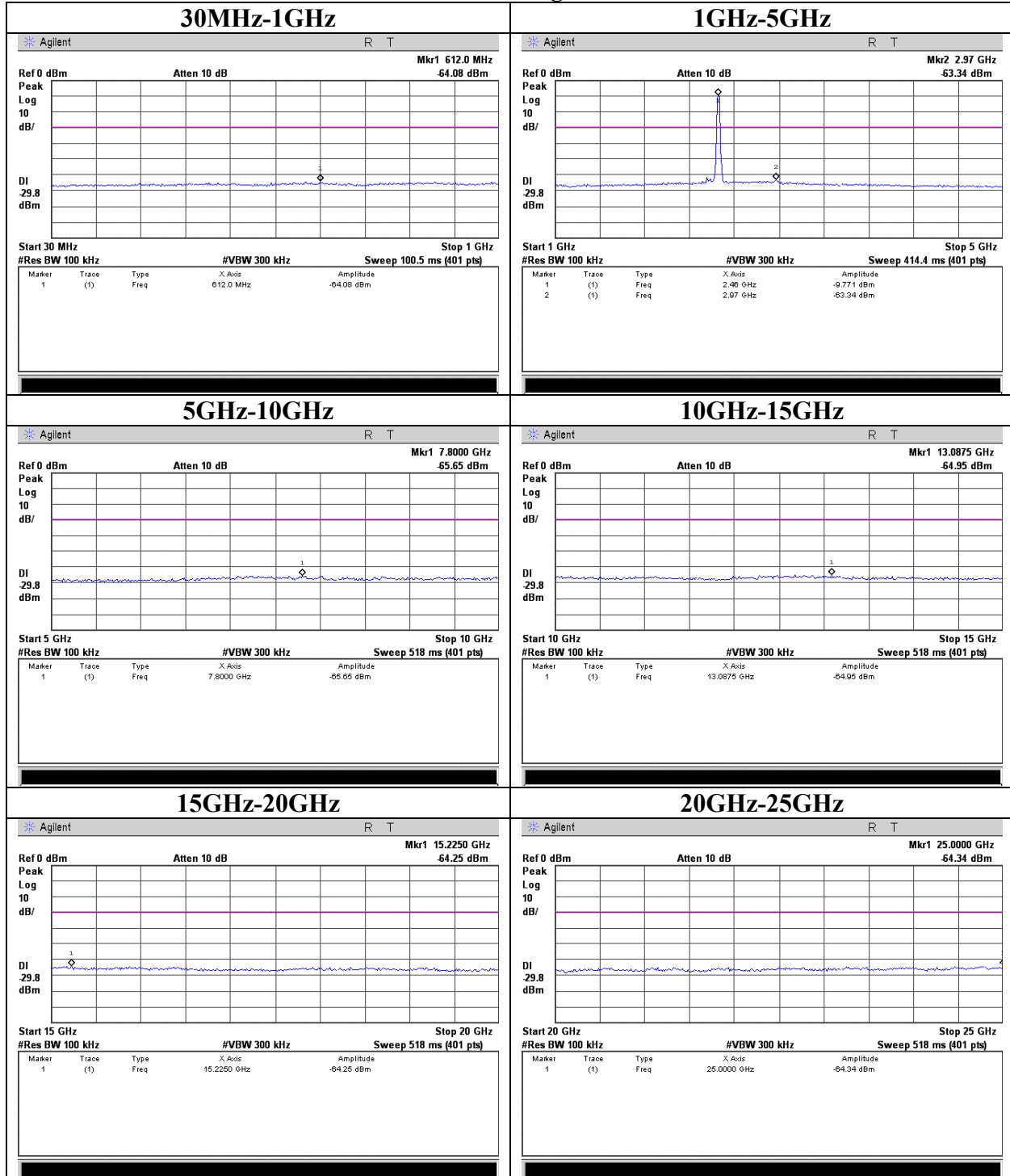
Conducted Spurious Emission(11g/54Mbps/Main antenna)

Ch: Mid



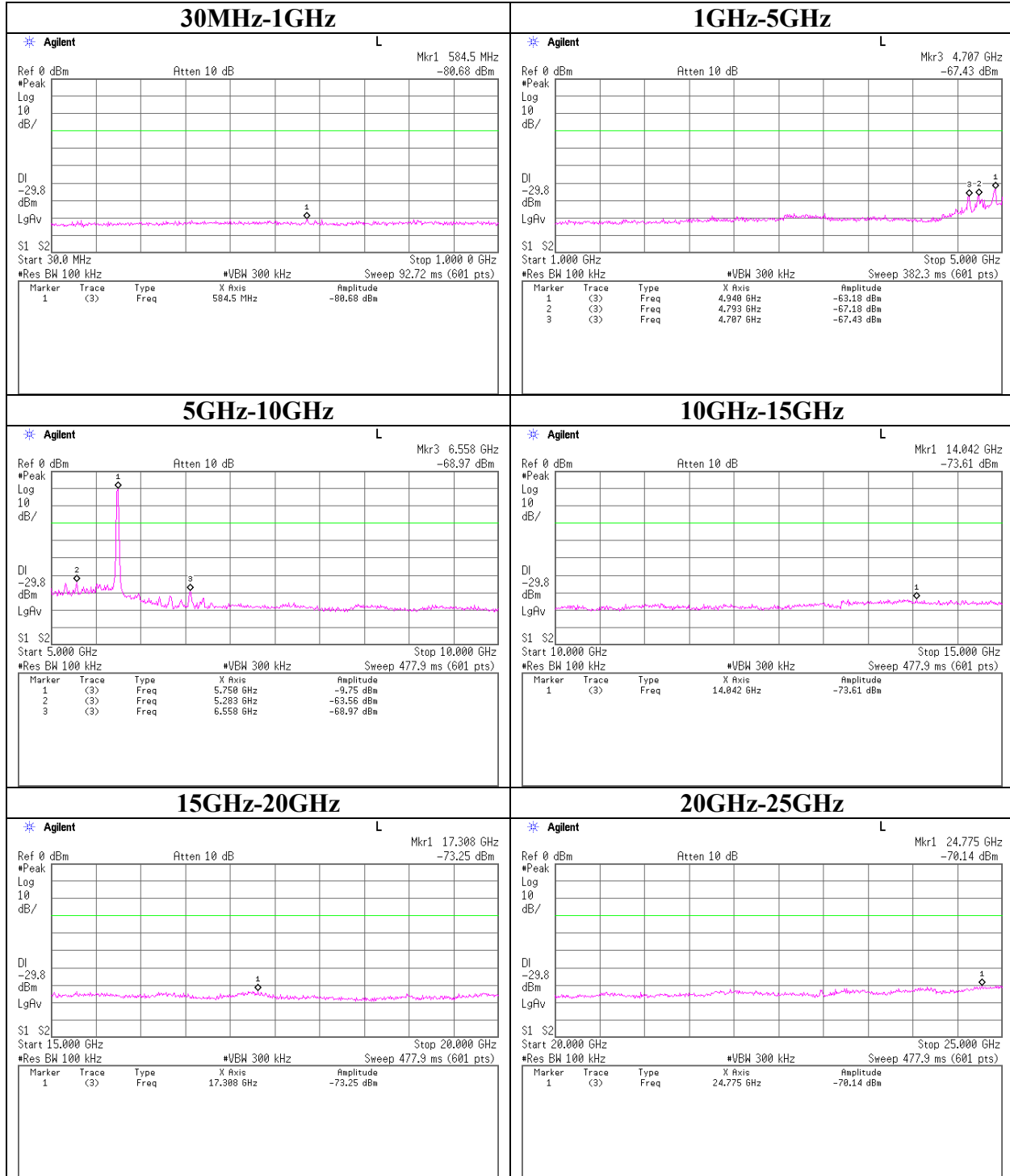
Conducted Spurious Emission(11g/54Mbps/Main antenna)

Ch: High



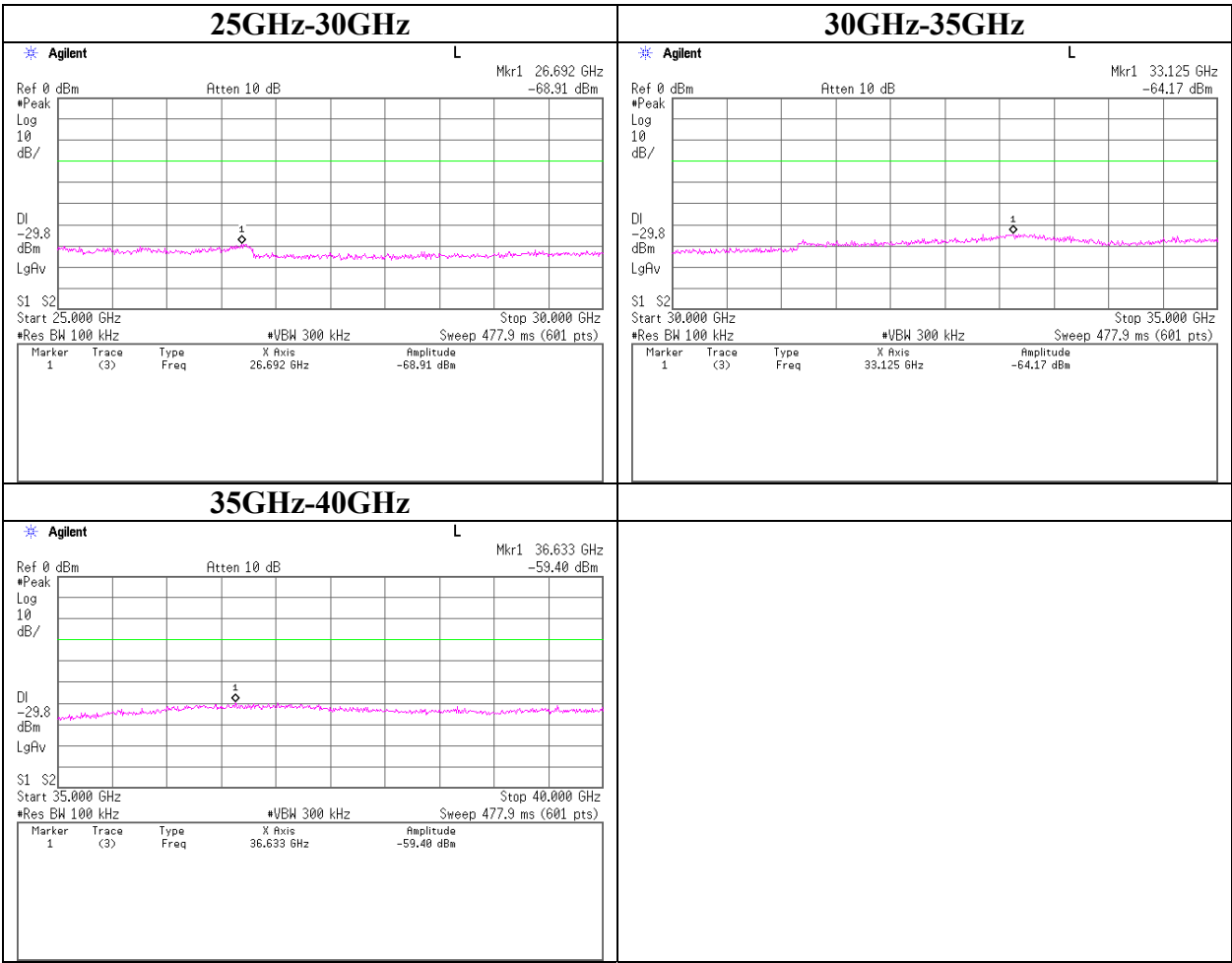
Conducted Spurious Emission(11a High band/54Mbps/AUX antenna)

Ch: Low



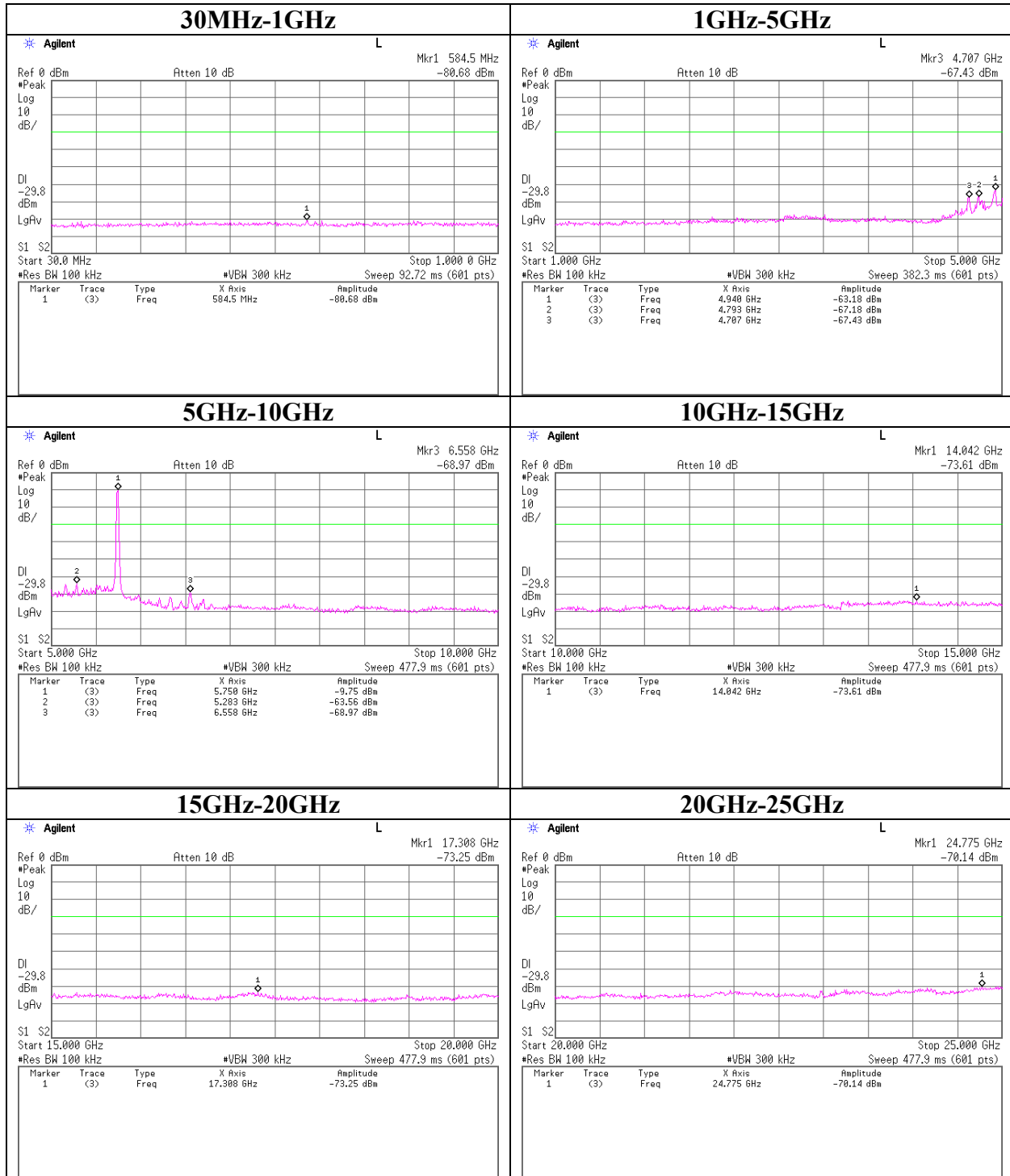
Conducted Spurious Emission(11a High band/54Mbps/AUX antenna)

Ch: Low



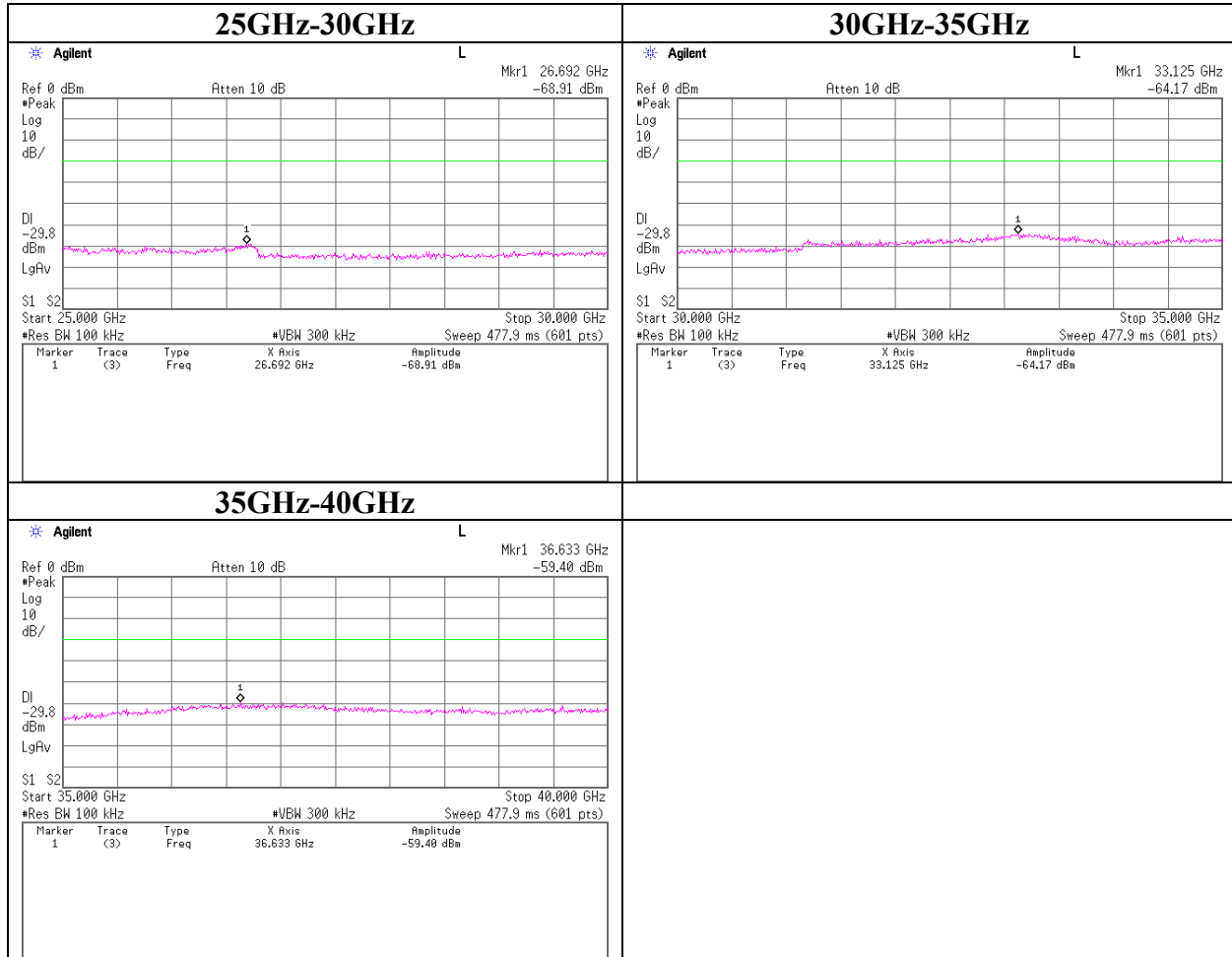
Conducted Spurious Emission(11a High band/54Mbps/AUX antenna)

Ch: Mid



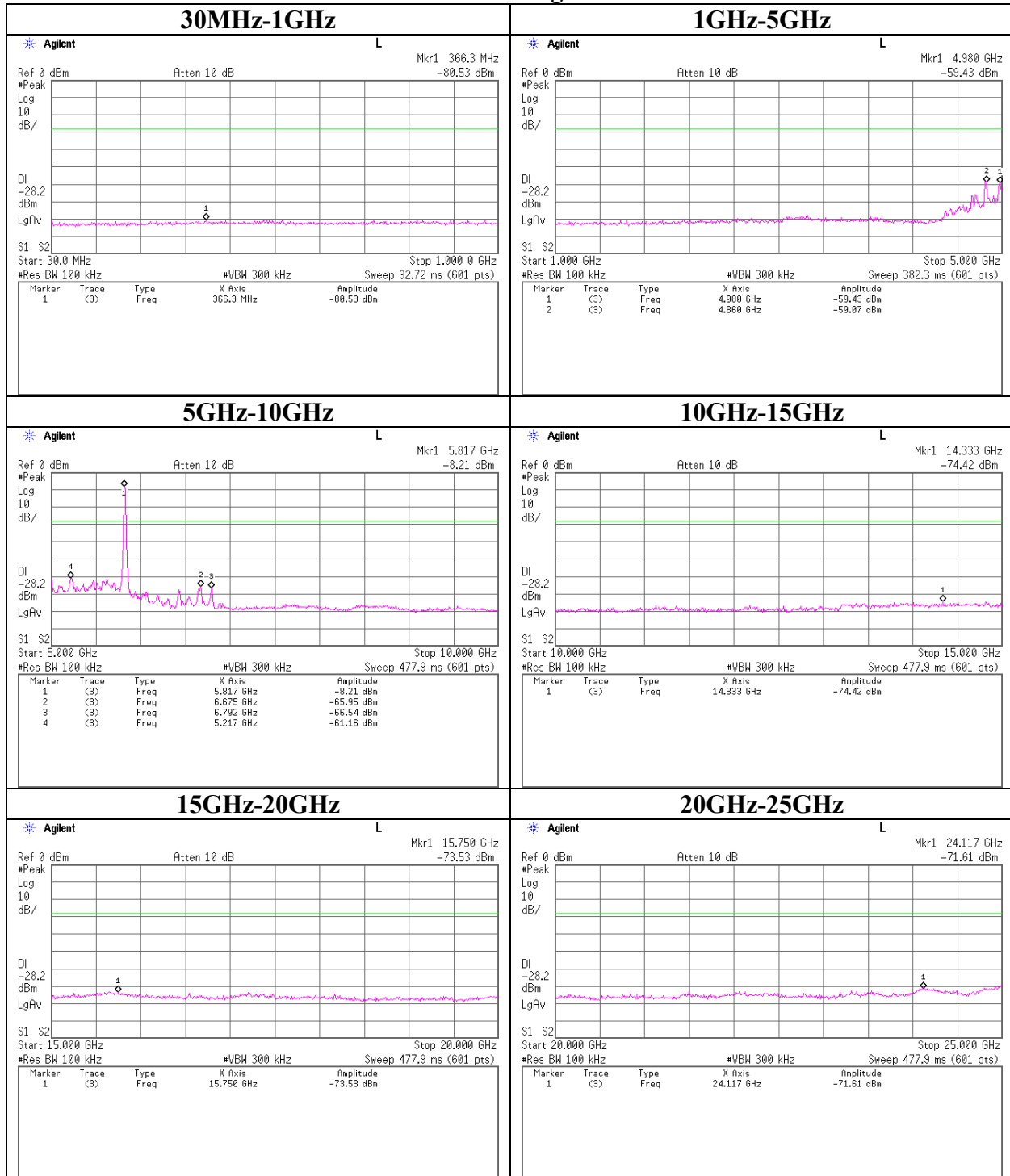
Conducted Spurious Emission(11a High band/54Mbps/AUX antenna)

Ch: Mid



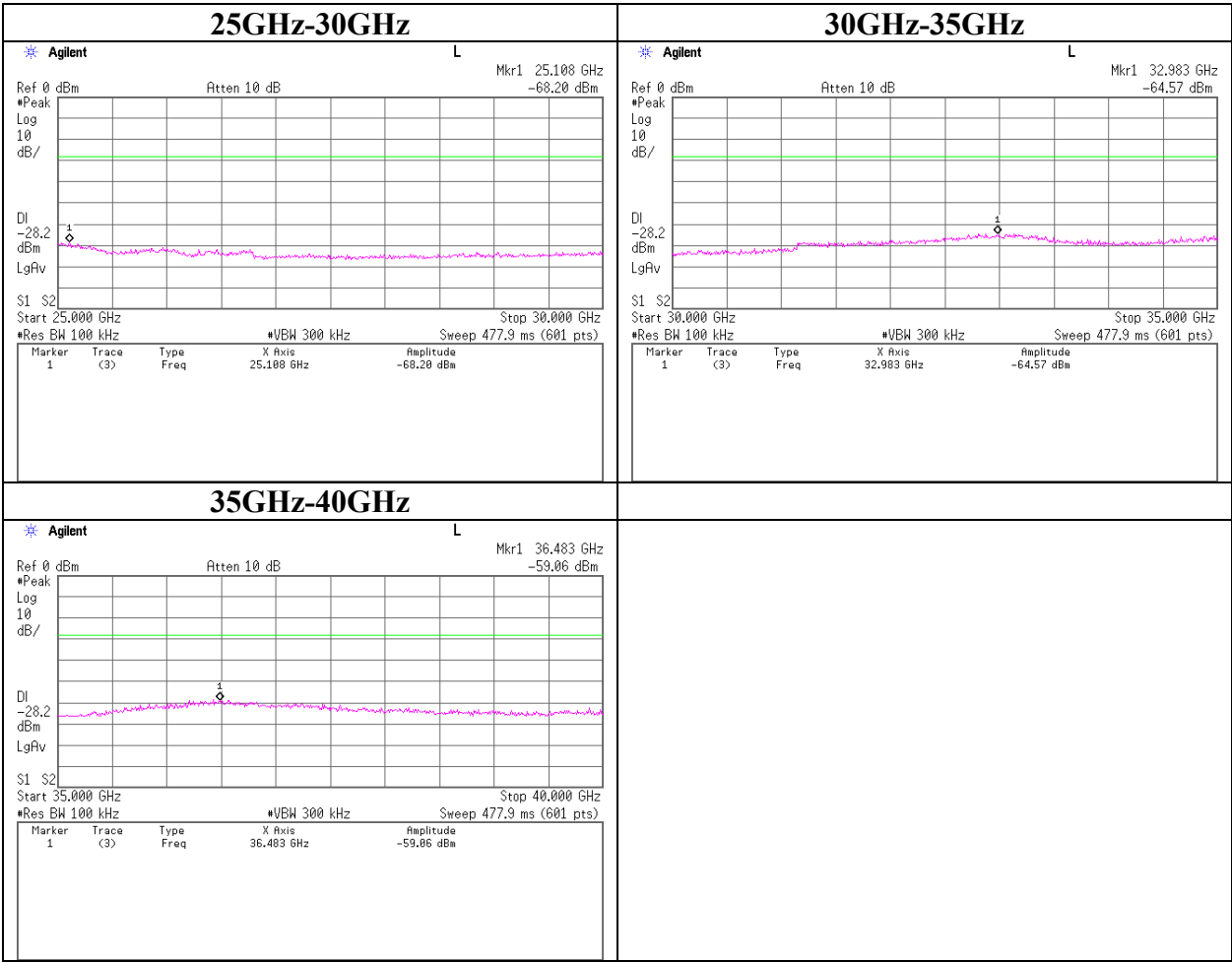
Conducted Spurious Emission(11a High band/54Mbps/AUX antenna)

Ch: High



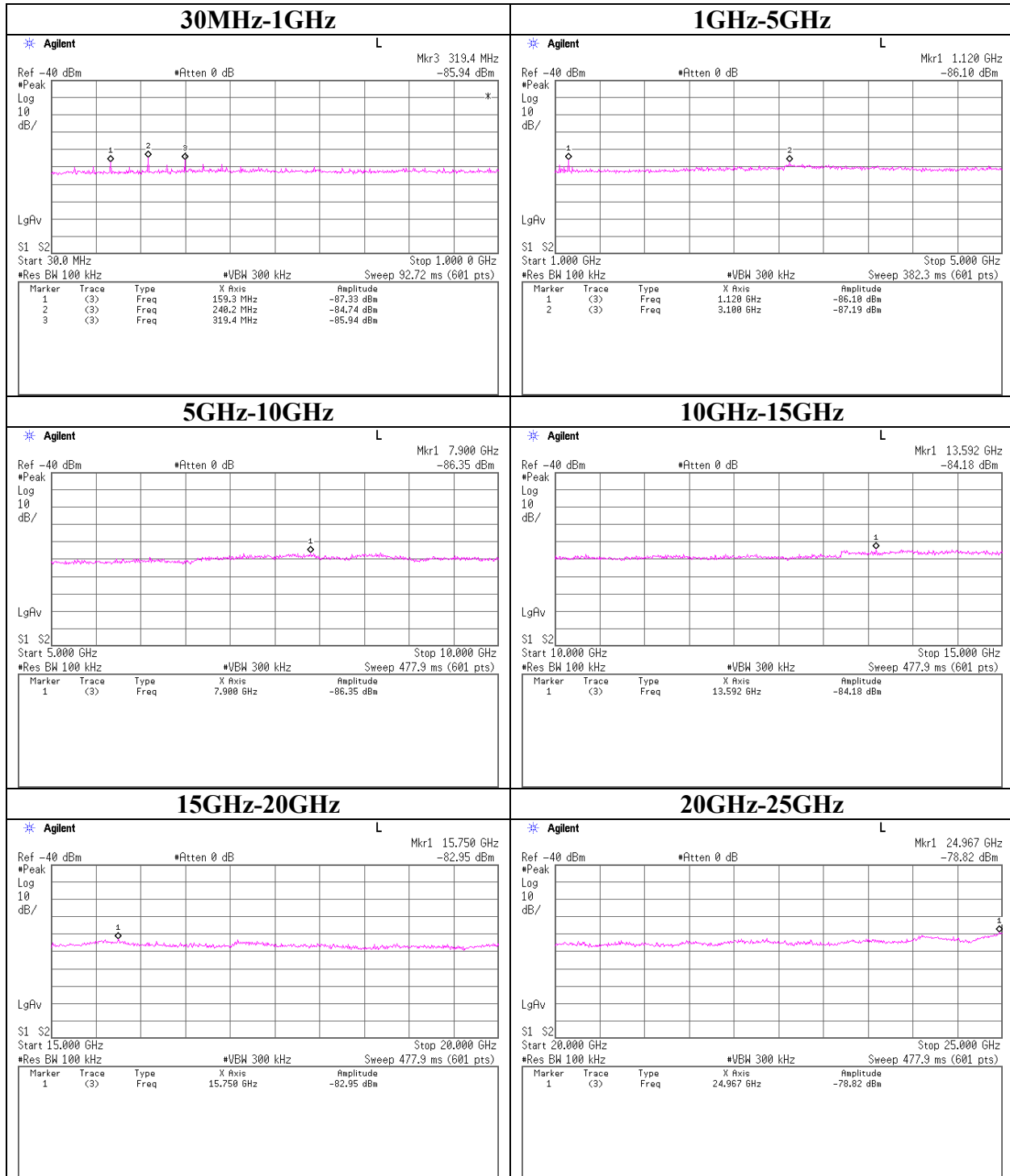
Conducted Spurious Emission(11a High band/54Mbps/AUX antenna)

Ch: High



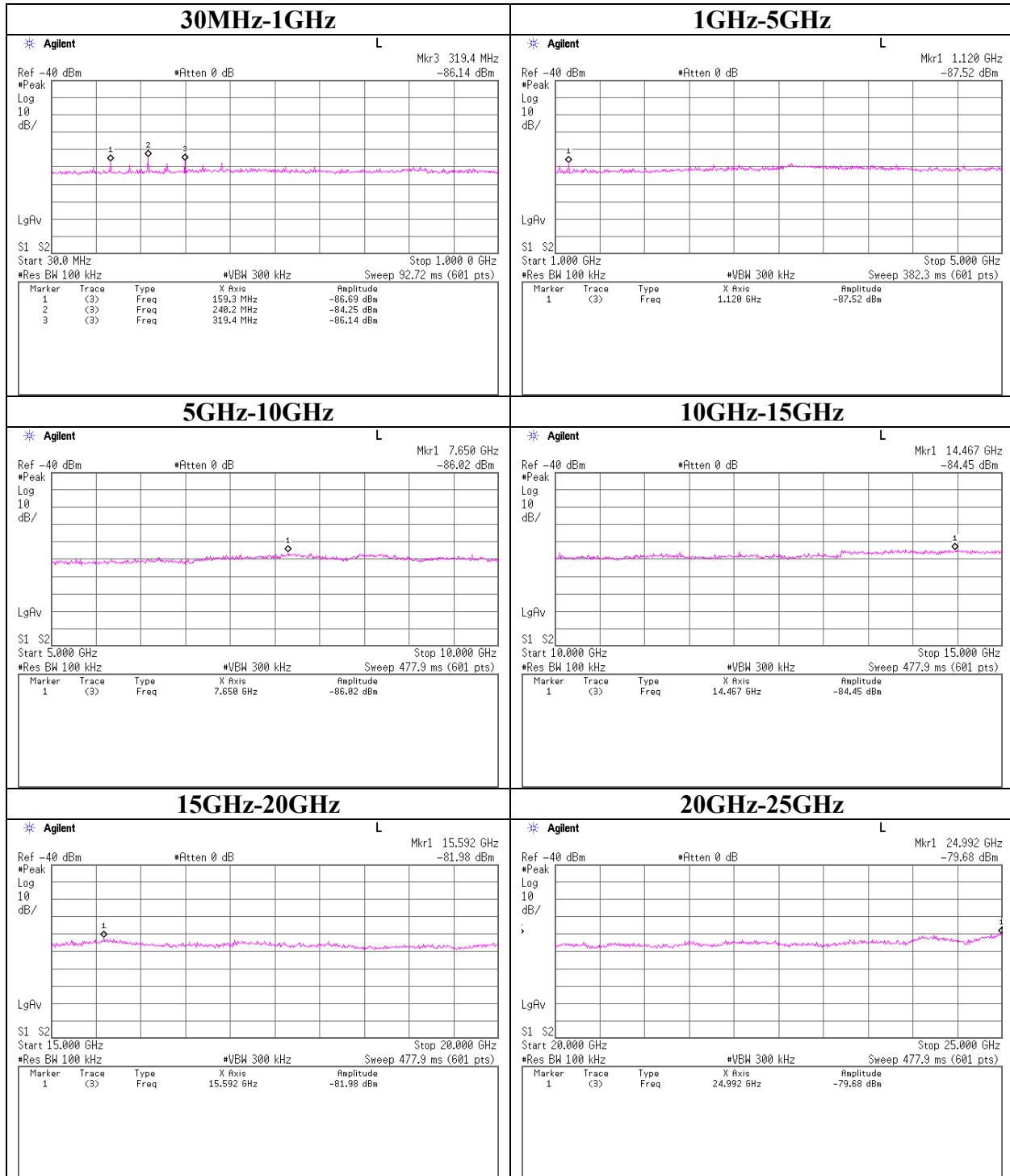
Conducted Spurious Emission(11b Rx/11Mbps/Main antenna)

Ch: Mid



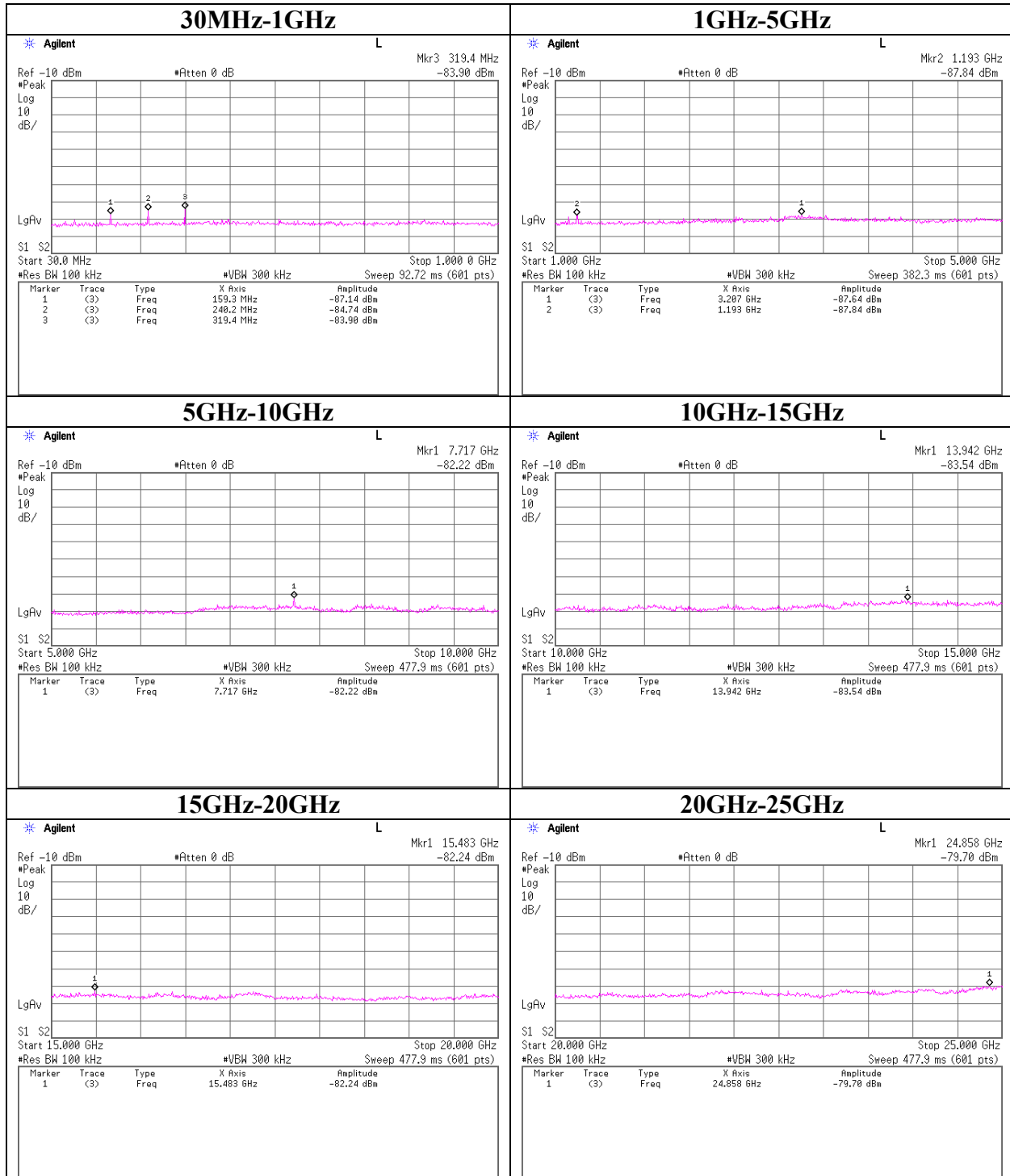
Conducted Spurious Emission(11g Rx/54Mbps/Main antenna)

Ch: Mid



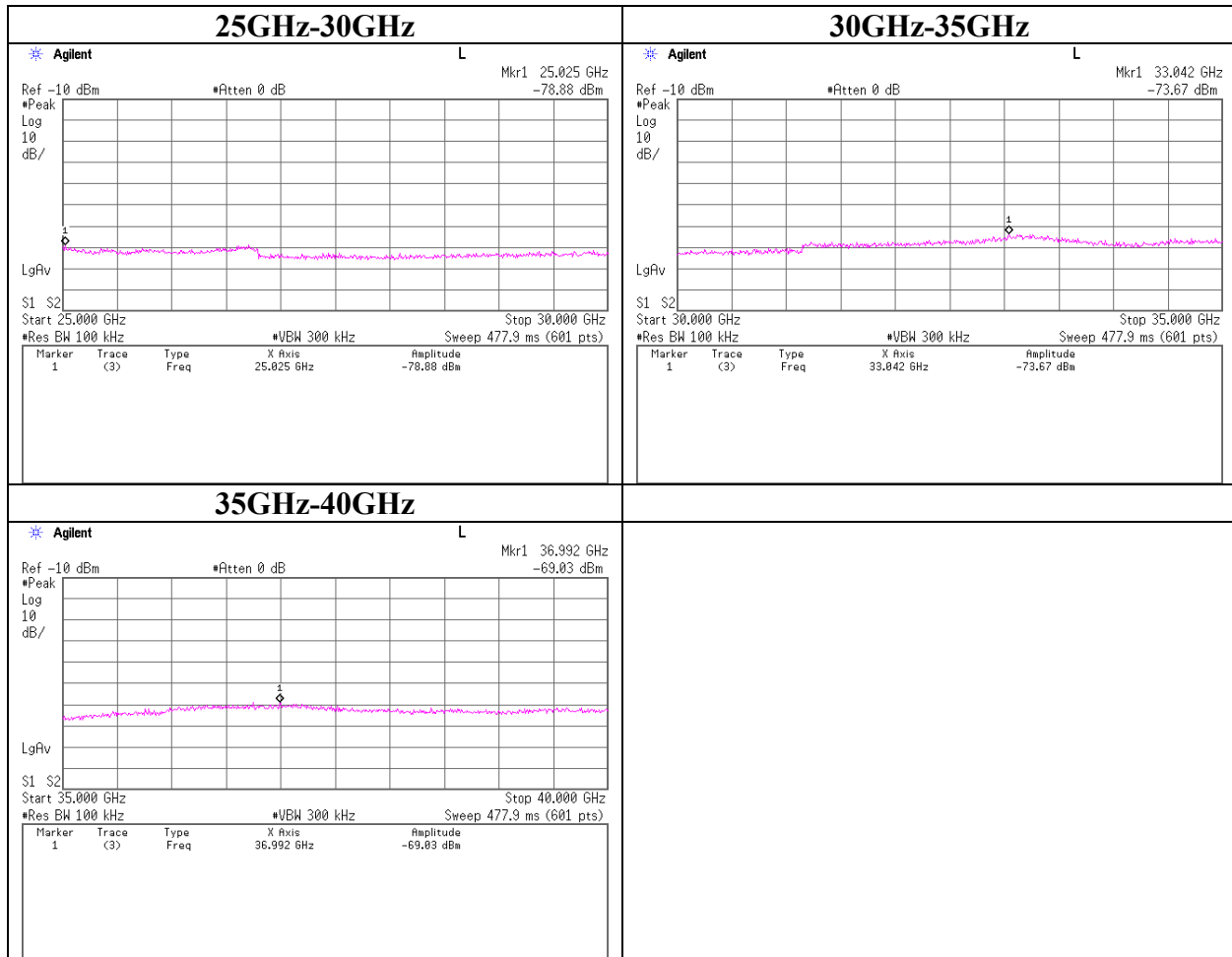
Conducted Spurious Emission(11a Rx High band/54Mbps/AUX antenna)

Ch: Mid

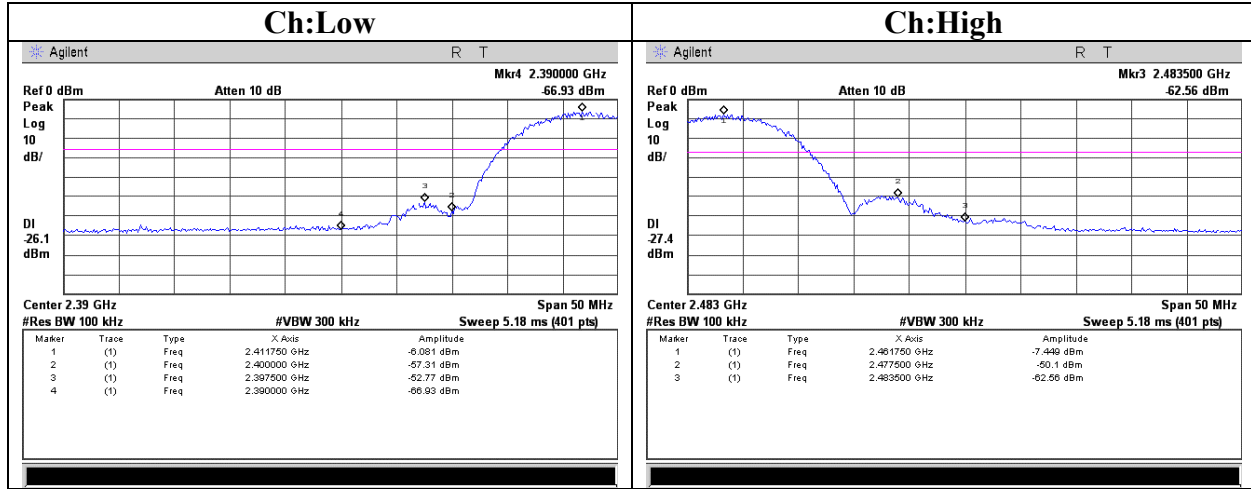


Conducted Spurious Emission(11a Rx High band/54Mbps/AUX antenna)

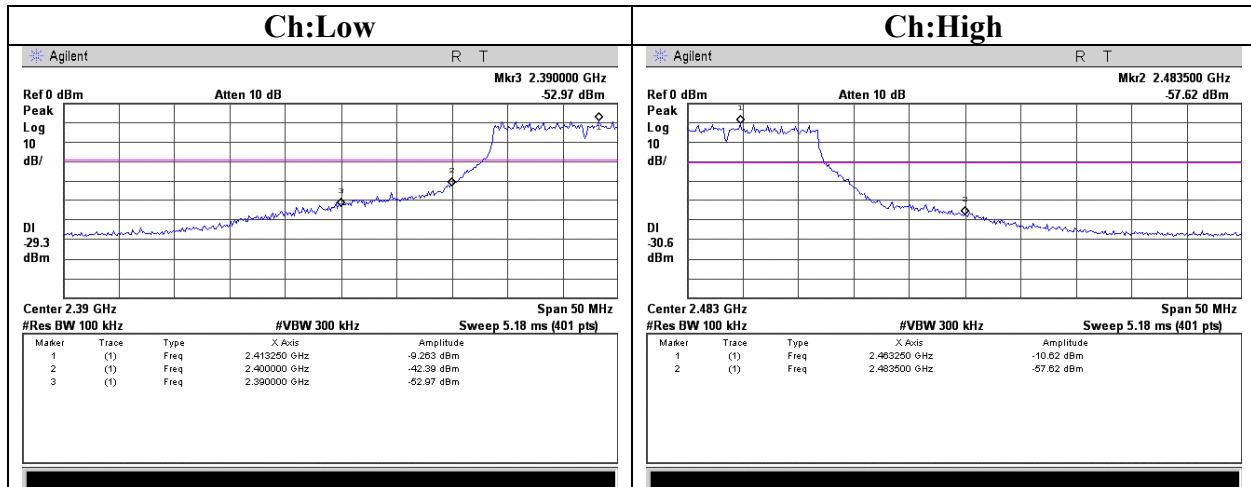
Ch: Mid



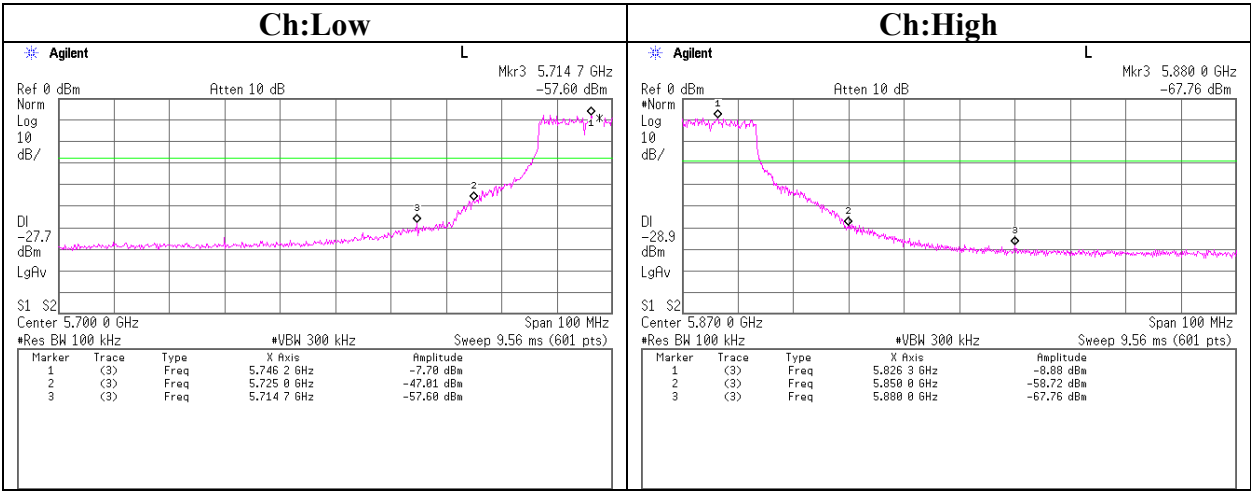
Conducted emission Band Edge compliance(11b/11Mbps/Main Antenna)



Conducted emission Band Edge compliance(11g/54Mbps/Main Antenna)



Conducted emission Band Edge compliance(11a High band/54Mbps/AUX Antenna)



Power Spectral Density

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

COMPANY	: Sony Corporation	REGULATION	: FCC Part15 Subpart C 15.247(e)
EQUIPMENT	: Notebook Personal Computer	TEST DISTANCE	: -
MODEL	: PCG-4H2L	DATE	: 04/06/2006
SAMPLE NO.	: XTA1-15	TEMPERATURE	: 24°C
POWER	: AC120V/60Hz	HUMIDITY	: 33%
MODE	: Tx (Low, Mid, High)	ENGINEER	: Yutaka Yoshida

[IEEE802.11b]

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2411.3	-21.14	2.5	10.0	-8.6	8.0	16.6
Mid	2436.3	-20.56	2.5	10.0	-8.1	8.0	16.1
High	2461.3	-21.59	2.5	10.0	-9.1	8.0	17.1

[IEEE802.11g]

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2411.7	-28.99	2.5	10.0	-16.5	8.0	24.5
Mid	2436.6	-29.14	2.5	10.0	-16.6	8.0	24.6
High	2461.4	-29.92	2.5	10.0	-17.4	8.0	25.4

[IEEE802.11a]

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	5745.0	-26.38	4.0	10.0	-12.4	8.0	20.4
Mid	5765.0	-28.31	4.0	10.0	-14.3	8.0	22.3
High	5825.0	-27.12	4.0	10.0	-13.1	8.0	21.1

Sample Calculation:

Result = Reading + Cable Loss (including customer cable) + Attenuator

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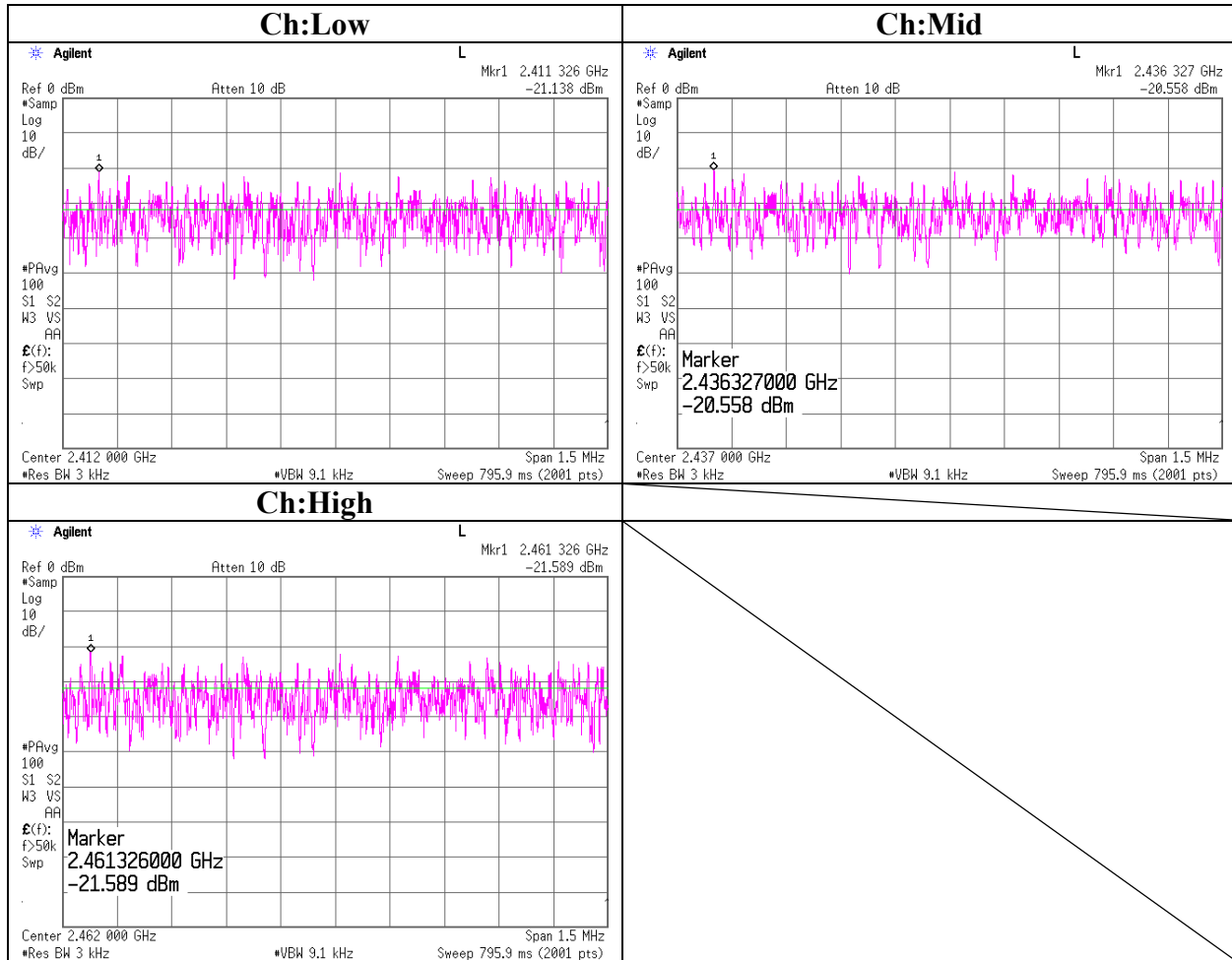
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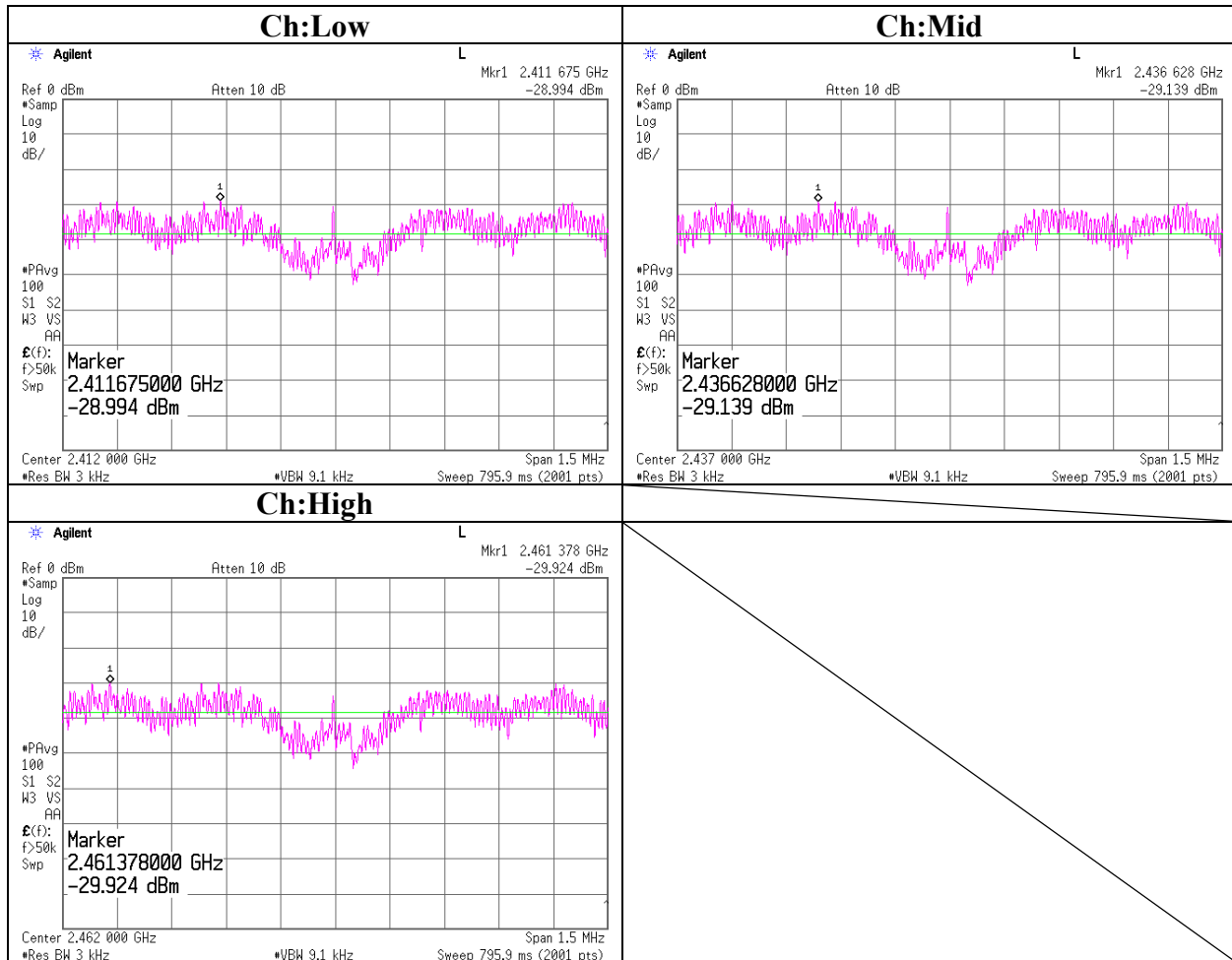
Facsimile : +81 596 24 8124

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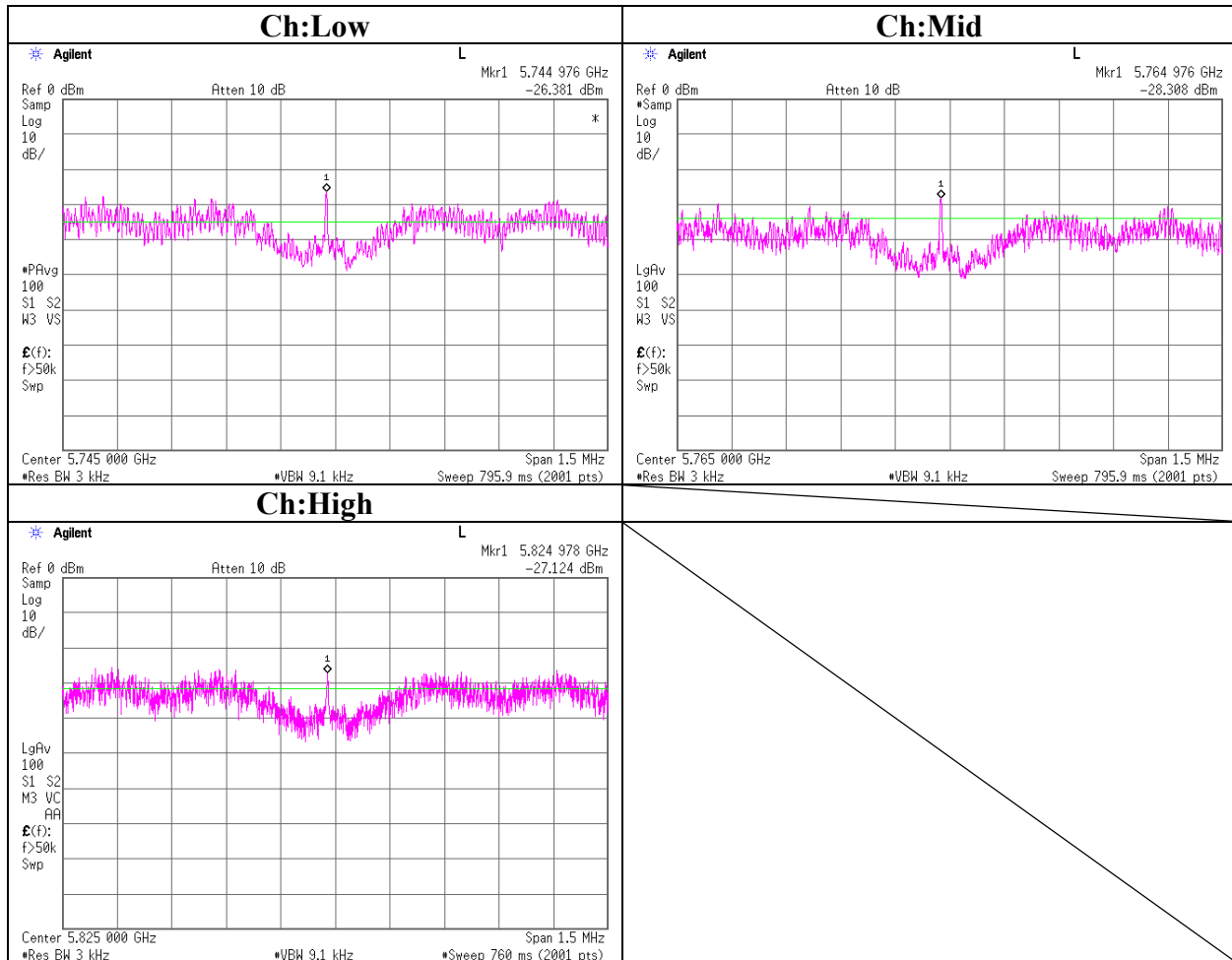
Power Spectral Density(11b/11Mbps/Main Antenna)



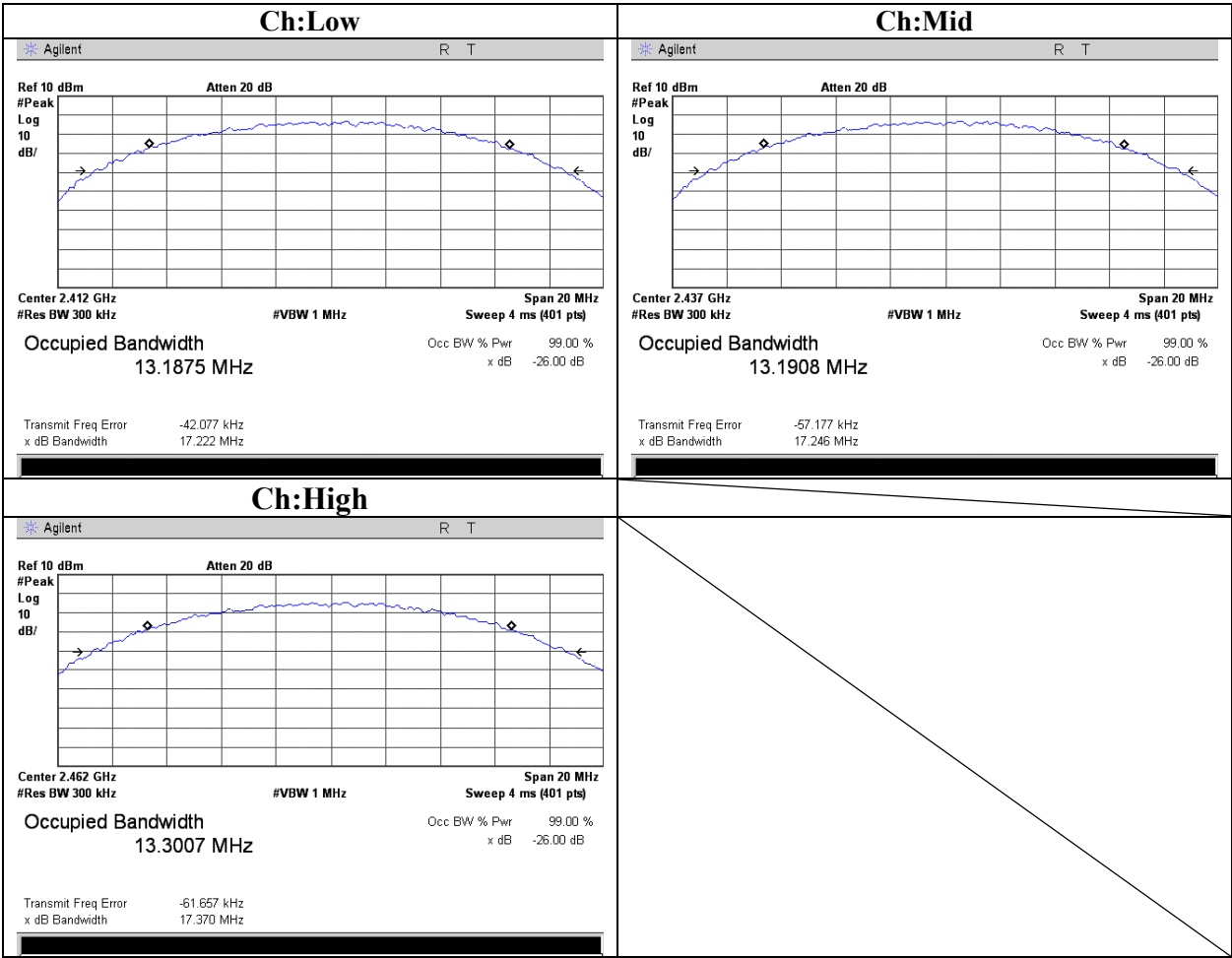
Power Spectral Density(11g/54Mbps/Main Antenna)



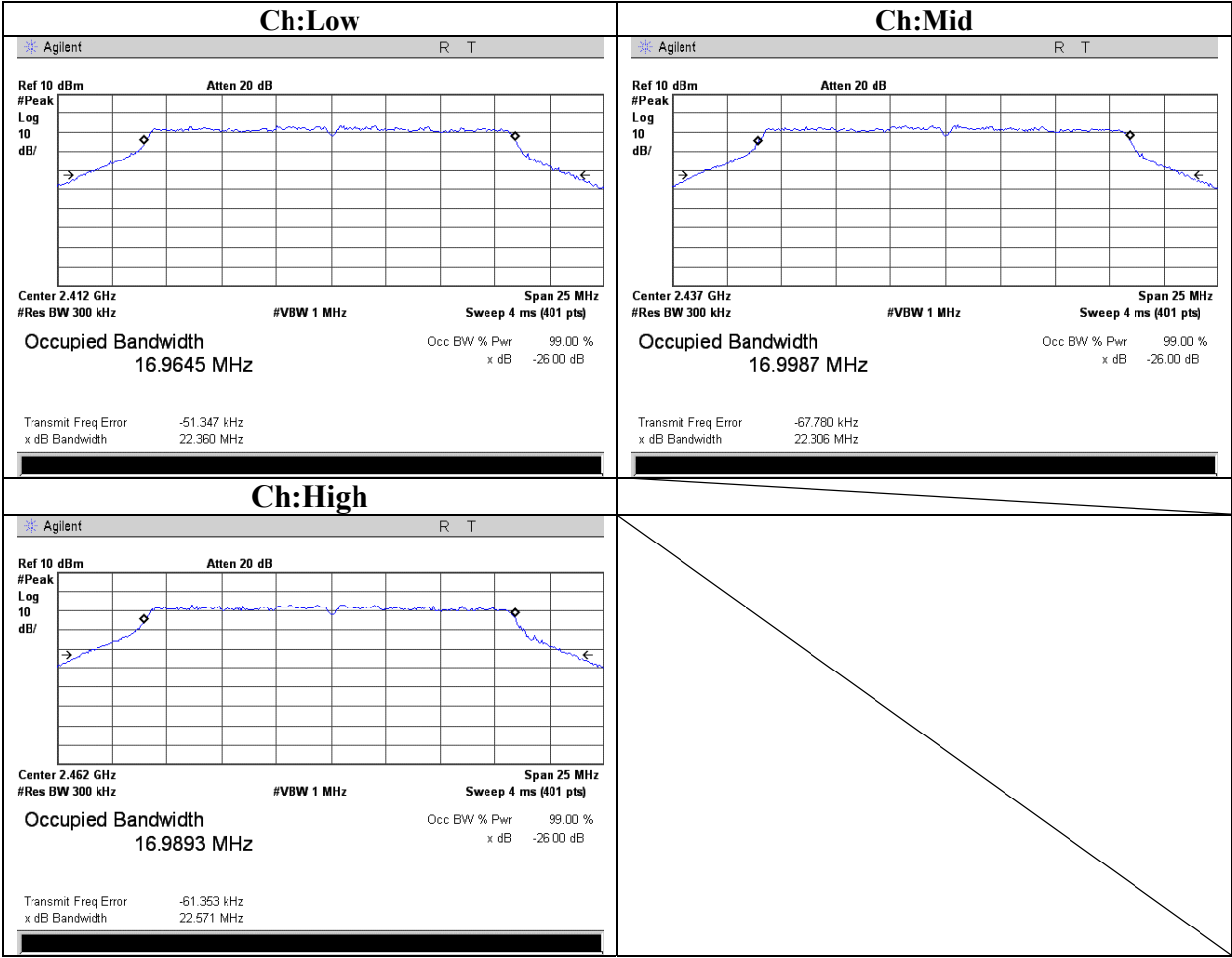
Power Spectral Density(11a High band/54Mbps/AUX Antenna)



99%Occupied Bandwidth(11b/11Mbps/Main Antenna)



99%Occupied Bandwidth(11g/54Mbps/Main Antenna)



99%Occupied Bandwidth(11a High band/54Mbps/AUX Antenna)

