

Attachment 3: TEST REPORT
FG05_042EAL_EMI_B6110D_ZEST (PART 2)



RADIATED EMISSION MEASUREMENT (30MHz~1000MHz) — Quasi-Peak Mode —

EUT Name: Personal computer Type: B6110D
 S/N: Pre-production sample
 Limit: CISPR22 Class B; Measurement distance is 10 m
 Test date: 2005/04/23 Temp: 23 °C R/H: 35 %
 Antenna: SME Bi-log VULB9160 S/N:3118 Receiver: HP 85422E S/N:3746A00242
 Test site: 2nd semianchoic chamber
 Assisted software: EMI measurement software of Version 1.3

Freq. (MHz)	Pol.	Meter Reading (dBuV)	Corr. Factor (dB)	Noise Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.72	Vert	11.1	12.6	23.7	30.0	6.3
33.34	Vert	12.0	12.8	24.8	30.0	5.2
41.39	Vert	9.3	13.2	22.5	30.0	7.5
96.00	Vert	8.4	10.8	19.2	30.0	10.8
179.34	Horiz	5.0	14.8	19.8	30.0	10.2
221.18	Horiz	9.0	13.8	22.8	30.0	7.2
229.37	Horiz	7.6	14.6	22.2	30.0	7.8
250.00	Horiz	12.5	15.8	28.3	37.0	8.7
250.00	Vert	17.8	15.8	33.6	37.0	3.4
260.54	Vert	10.1	15.9	26.0	37.0	11.0
294.90	Vert	8.4	17.6	26.0	37.0	11.0
300.01	Vert	11.8	17.7	29.5	37.0	7.5
600.00	Horiz	1.6	26.1	27.7	37.0	9.3
600.00	Vert	6.9	26.1	33.0	37.0	4.0
656.29	Vert	2.6	26.5	29.1	37.0	7.9
657.94	Horiz	5.3	26.5	31.8	37.0	5.2
800.04	Horiz	0.5	29.8	30.3	37.0	6.7
943.61	Vert	1.3	32.3	33.6	37.0	3.4

The emissions above 943.61 MHz were below - 20 dB from limits.

* Corrected reading = meter reading + corr. factor (= antenna factor + cable loss - preamp gain)
 * The limit of CISPR 22 is applied for FCC Part-15.

* Measurement uncertainty: ± 3.3 dB (K = 2, 95 %)



Tested by

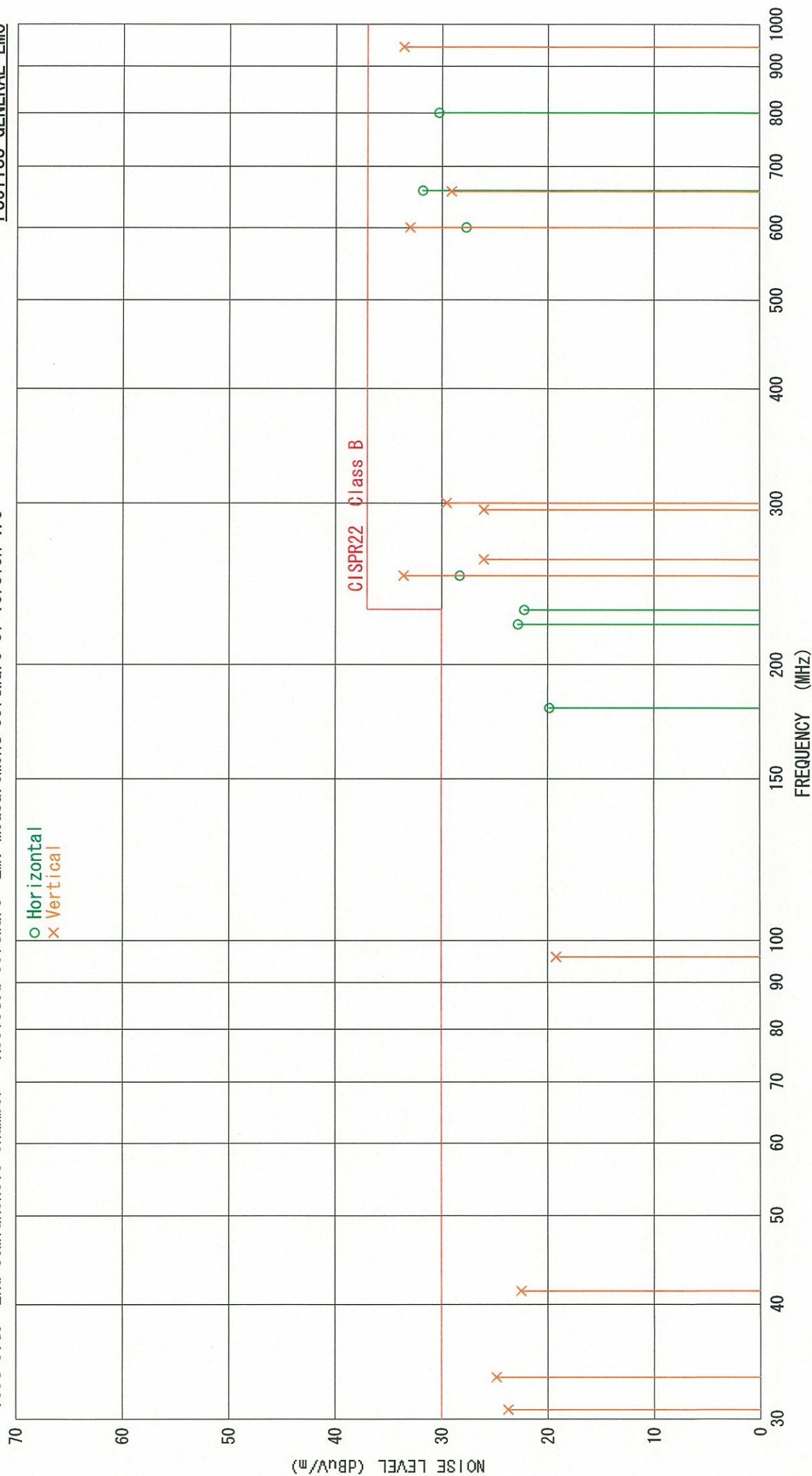
RADIATED EMISSION MEASUREMENT

No: #05-042-RE (2 / 2)

--- Quasi-Peak Mode ---

EUT Name: Personal computer TYPE: B6110D S/N: Pre-production sample
Limit: CISPR22 Class B ; Measurement distance is 10 m
Test date: 2005/04/23 Temp: 23 °C R/H: 35 %
Antenna: SME B1-log VULB9160 S/N:3118 Receiver: HP 85422E S/N:3746A00242
Test site: 2nd semianchoic chamber Assisted software: EMI measurement software of Version 1.3

FUJITSU GENERAL EMC



RADIATED EMISSION MEASUREMENT (1GHz~10GHz)

EUT Name: Personal Computer Type: B6110D S/N: Pre-production sample
 Limit : FCC Part-15 Class B ; Measurement distance is 3 m
 Test date: 2005/4/24 Temp: 23 °C R/H: 35 %
 Antenna : Schwarzbeck BBHA9120D S/N:136
 Receiver : Spectrum analyzer : Advantest R3371A S/N:75060396
 Test site: 2nd semi-anechoic chamber

Freq. (GHz)	Pol.	Meter Reading (dBuV)	Corr. Factor (dB)	Noise Level (dBuV/m)	Limit Peak AV (dBuV/m)	Margin (dB)
1.0000	Vert	51.0	-7.2	43.9	74.0 54.0	10.2
1.0650	Vert	46.6	-6.8	39.7	74.0 54.0	14.3
1.1990	Vert	37.4	-6.2	31.2	74.0 54.0	22.8
1.3560	Vert	33.7	-5.5	28.2	74.0 54.0	25.8
1.5600	Horiz	38.0	-4.1	33.9	74.0 54.0	20.1
1.6900	Vert	37.0	-2.7	34.3	74.0 54.0	19.7
1.8002	Vert	34.7	-1.6	33.1	74.0 54.0	20.9
1.9530	Vert	33.0	0.1	33.1	74.0 54.0	20.9

The emissions above 1.9530 GHz were below - 10 dB from limits.

 * Corrected reading: = meter reading + corr. factor (= antenna factor + cable loss - preamp gain)

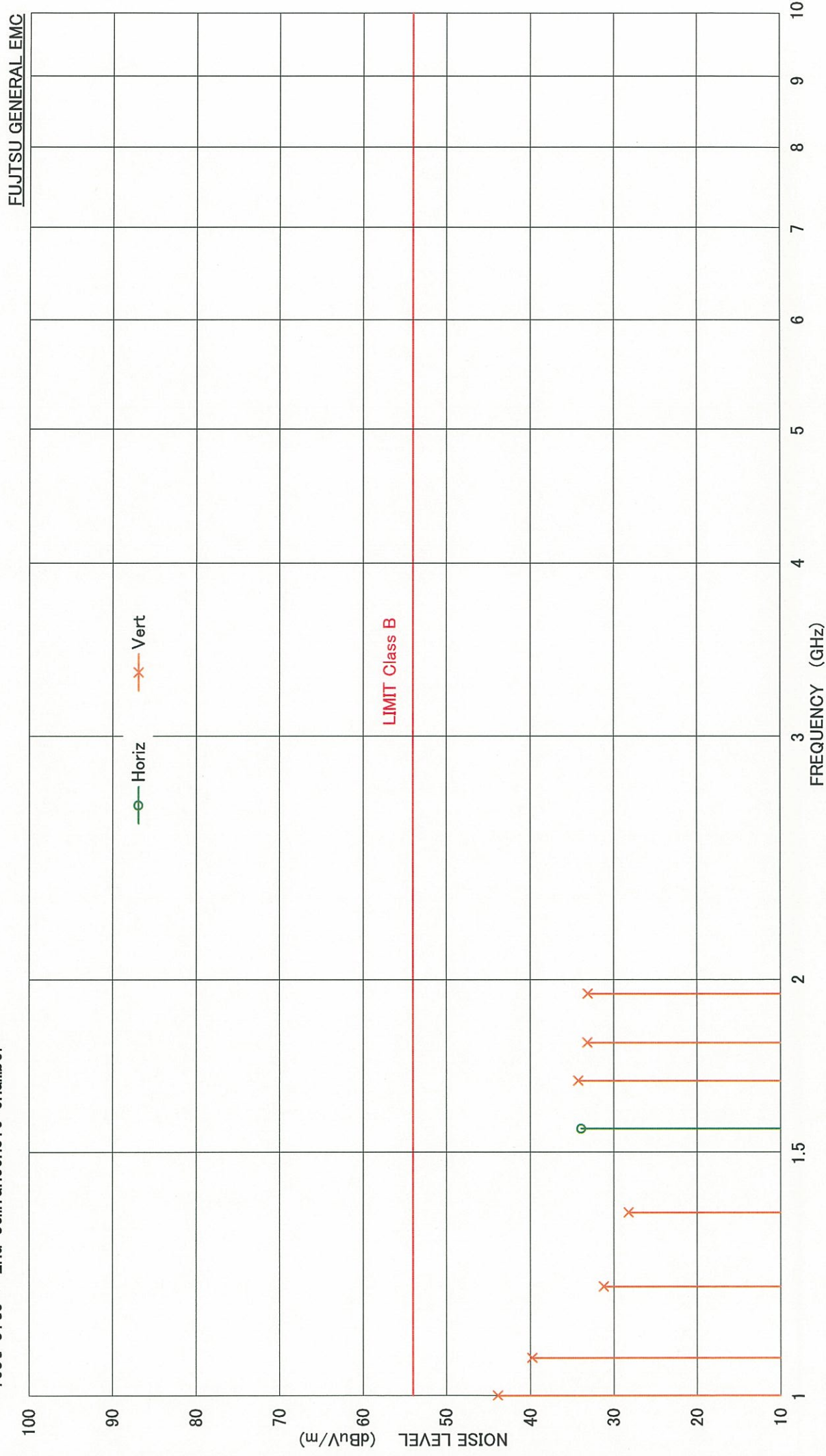


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RADIATED EMISSION MEASUREMENT (1GHz - 10GHz)

No: #05-042E-GH2 (2/2)

EUT Name : Personal computer TYPE : B6110D S/N : Pre-production sample
LIMIT : FCC Part-15 class B ; Measurement distance is 3m
Test date : 2005/04/24 Temp : 23 °C R/H : 35 %
Antenna : Schwarzbeck BH9120D S/N:136 Receiver : Advantest R3371A S/N:75060396
Test site : 2nd semianechoic chamber



POWER LINE CONDUCTED EMISSION MEASUREMENT — Quasi-Peak Mode —

EUT Name: Personal computer Type: B6110D
 S/N: Pre-production sample
 Limit: CISPR22 Class B Test voltage: 100 VAC, Single phase
 Test date: 2005/04/24 Temp: 23 °C R/H: 35 %
 AMN: Kyoritsu KMW-407 S/N:8-823-18 Receiver: HP 85422E S/N:3746A00242
 Test site: 2nd semianchoic chamber
 Assisted software: EMI measurement software of Version 1.3

Freq. (MHz)	Line	Meter Reading (dBuV)	Corr. Factor (dB)	Noise Level (dBuV)	Limit (dBuV)	Margin (dB)
0.1944	# 1	38.9	6.8	45.7	53.9	8.2
0.1944	# 2	40.8	6.8	47.6	53.9	6.3
0.2966	# 2	32.8	6.5	39.3	50.3	11.0
0.2969	# 1	29.9	6.5	36.4	50.3	13.9
0.3943	# 2	28.0	6.3	34.3	48.0	13.7
0.4883	# 2	26.7	6.0	32.7	46.2	13.5
0.6018	# 2	25.0	6.0	31.0	46.0	15.0
0.6995	# 2	25.6	6.0	31.6	46.0	14.4
0.8190	# 2	23.5	6.1	29.6	46.0	16.4
0.8916	# 2	23.2	6.1	29.3	46.0	16.7
0.9864	# 2	23.7	6.1	29.8	46.0	16.2
1.0906	# 2	22.4	6.1	28.5	46.0	17.5
1.1901	# 2	22.2	6.1	28.3	46.0	17.7
1.3352	# 2	22.7	6.1	28.8	46.0	17.2
2.3319	# 2	22.7	6.1	28.8	46.0	17.2
19.7082	# 2	27.0	7.0	34.0	50.0	16.0
23.6730	# 1	30.7	7.2	37.9	50.0	12.1
23.6730	# 2	30.2	7.2	37.4	50.0	12.6
29.5785	# 1	29.8	7.7	37.5	50.0	12.5

The emissions above 29.5785 MHz were below - 20 dB from limits.

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- * Corrected reading = meter reading + corr. factor (= AMN factor + 6-dB pad + cable loss)
 - * The limit of CISPR 22 is applied for FCC Part-15.
 - * Measurement uncertainty: ± 2.5 dB (K = 2, 95 %)



Tested by

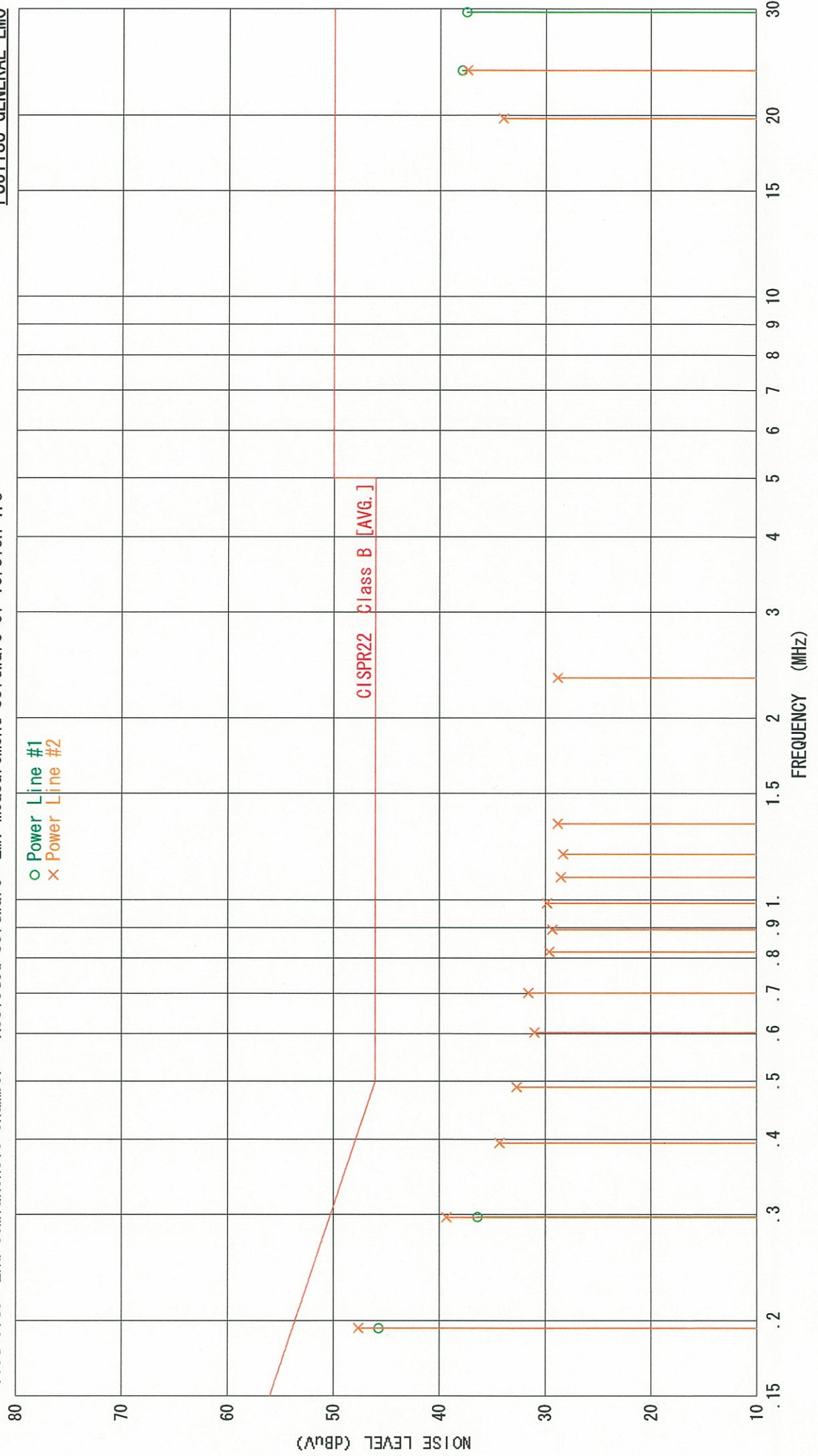
POWER LINE CONDUCTED EMISSION MEASUREMENT

No.: #05-042-CE1 (2 / 2)

--- Quasi-Peak Mode ---

EUT Name: Personal computer TYPE: B6110D S/N: Pre-production sample
Limit: CISPR22 Class B Test voltage: 100 VAC, Single phase
Test date: 2005/04/24 Temp: 23 °C R/H: 35 %
AMN: Kyoritsu KMW-407 S/N: 8-823-18 Receiver: HP 85422E S/N: 3746A00242
Test site: 2nd semianchoic chamber Assisted software: EMI measurement software of Version 1.3

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POWER LINE CONDUCTED EMISSION MEASUREMENT — Quasi-Peak Mode —

EUT Name: Personal computer Type: B6110D
 S/N: Pre-production sample
 Limit: CISPR22 Class B Test voltage: 120 VAC, Single phase
 Test date: 2005/04/24 Temp: 23 °C R/H: 35 %
 AMN: Kyoritsu KMW-407 S/N:8-823-18 Receiver: HP 85422E S/N:3746A00242
 Test site: 2nd semianchoic chamber
 Assisted software: EMI measurement software of Version 1.3

Freq. (MHz)	Line	Meter Reading (dBuV)	Corr. Factor (dB)	Noise Level (dBuV)	Limit (dBuV)	Margin (dB)
0.1890	# 1	35.9	6.8	42.7	54.1	11.4
0.1890	# 2	38.0	6.8	44.8	54.1	9.3
0.2700	# 1	30.3	6.6	36.9	51.1	14.2
0.2700	# 2	31.3	6.6	37.9	51.1	13.2
0.2771	# 2	32.3	6.6	38.9	50.9	12.0
0.4127	# 2	26.0	6.2	32.2	47.6	15.4
0.5328	# 2	25.0	6.0	31.0	46.0	15.0
0.7304	# 2	28.0	6.0	34.0	46.0	12.0
0.8319	# 2	24.1	6.1	30.2	46.0	15.8
2.3850	# 2	25.1	6.1	31.2	46.0	14.8
2.9108	# 2	26.0	6.2	32.2	46.0	13.8
3.0199	# 2	25.7	6.2	31.9	46.0	14.1
3.6380	# 2	26.7	6.2	32.9	46.0	13.1
3.7414	# 2	26.1	6.2	32.3	46.0	13.7
4.3701	# 2	24.8	6.3	31.1	46.0	14.9
23.6733	# 1	30.8	7.2	38.0	50.0	12.0
29.5783	# 1	29.7	7.7	37.4	50.0	12.6

The emissions above 29.5783 MHz were below - 20 dB from limits.

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- * Corrected reading = meter reading + corr.factor(= AMN factor + 6-dB pad + cable loss)
 - * The limit of CISPR 22 is applied for FCC Part-15.
 - * Measurement uncertainty: ± 2.5 dB (K = 2, 95 %)



Tested by

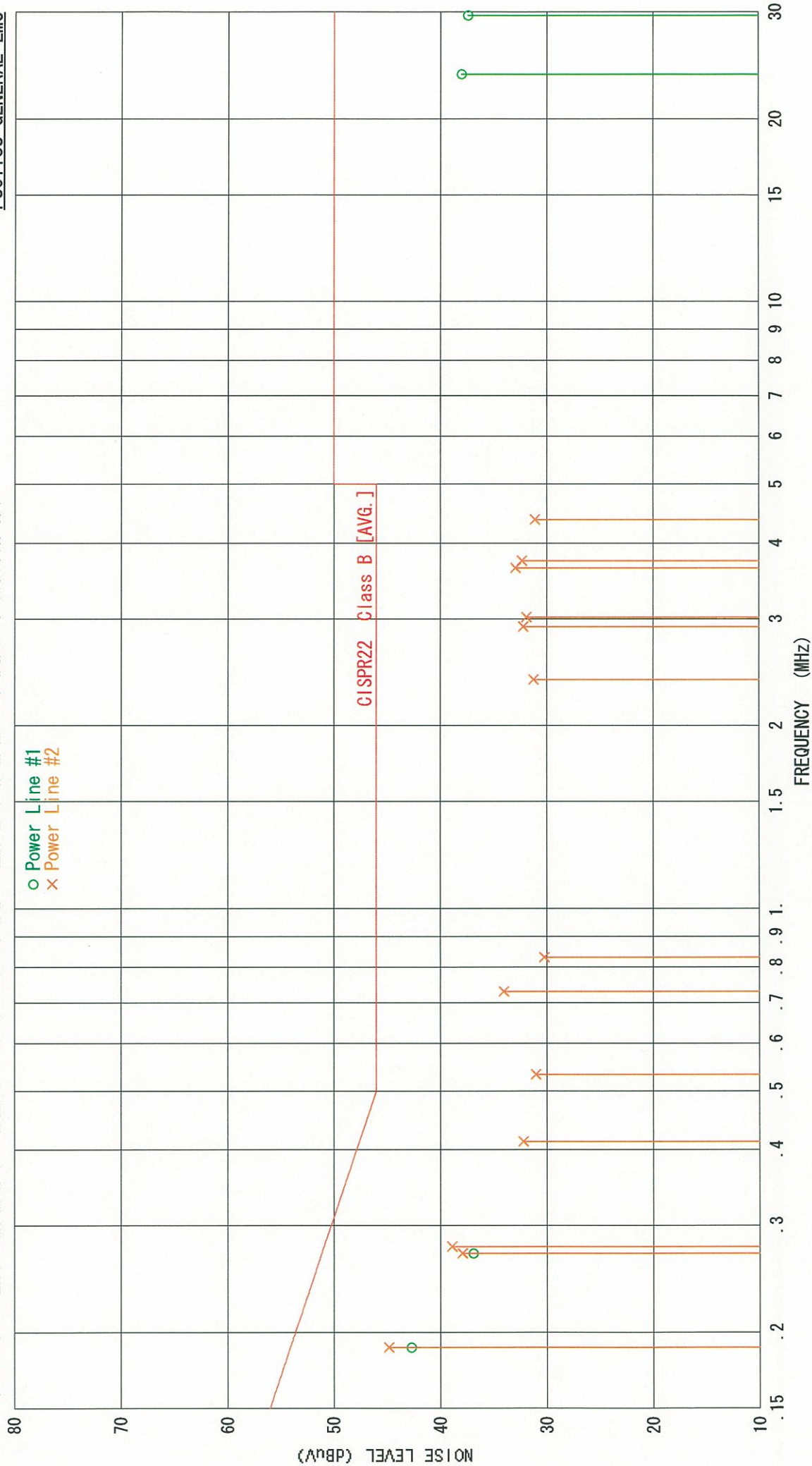
POWER LINE CONDUCTED EMISSION MEASUREMENT

No.: #05-042-CE2 (2 / 2)

--- Quasi-Peak Mode ---

EUT Name: Personal computer TYPE: B6110D S/N: Pre-production sample
Limit: CISPR22 Class B Test voltage: 120 VAC, Single phase
Test date: 2005/04/24 Temp: 23 °C R/H: 35 %
AMN: Kyoritsu KMW-407 S/N: 8-823-18 Receiver: HP 85422E S/N: 3746A00242
Test site: 2nd semianchoic chamber Assisted software: EMI measurement software of Version 1.3

FUJITSU GENERAL EMC



POWER LINE CONDUCTED EMISSION MEASUREMENT -- Quasi-Peak Mode --

EUT Name: Personal computer Type: B6110D
 S/N: Pre-production sample
 Limit: CISPR22 Class B Test voltage: 230 VAC, Single phase
 Test date: 2005/04/24 Temp: 23 °C R/H: 35 %
 AMN: Kyoritsu KMW-407 S/N:8-823-18 Receiver: HP 85422E S/N:3746A00242
 Test site: 2nd semianchoic chamber
 Assisted software: EMI measurement software of Version 1.3

Freq. (MHz)	Line	Meter Reading (dBuV)	Corr. Factor (dB)	Noise Level (dBuV)	Limit (dBuV)	Margin (dB)
0.2252	# 2	33.8	6.7	40.5	52.6	12.1
0.3013	# 2	30.0	6.5	36.5	50.2	13.7
0.3055	# 1	27.3	6.5	33.8	50.1	16.3
0.4537	# 2	26.4	6.1	32.5	46.8	14.3
0.5313	# 2	24.5	6.0	30.5	46.0	15.5
0.6093	# 2	25.5	6.0	31.5	46.0	14.5
0.6822	# 2	26.9	6.0	32.9	46.0	13.1
0.7578	# 2	25.0	6.1	31.1	46.0	14.9
0.8285	# 2	23.8	6.1	29.9	46.0	16.1
2.1997	# 2	25.1	6.1	31.2	46.0	14.8
3.0305	# 2	25.6	6.2	31.8	46.0	14.2
3.1104	# 2	25.3	6.2	31.5	46.0	14.5
3.6368	# 2	25.9	6.2	32.1	46.0	13.9
3.7182	# 2	26.3	6.2	32.5	46.0	13.5
3.7912	# 2	26.6	6.2	32.8	46.0	13.2
4.3995	# 2	25.8	6.3	32.1	46.0	13.9
4.5492	# 2	25.7	6.3	32.0	46.0	14.0
23.6732	# 2	30.7	7.2	37.9	50.0	12.1

The emissions above 23.6732 MHz were below - 20 dB from limits.

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- * Corrected reading = meter reading + corr. factor (= AMN factor + 6-dB pad + cable loss)
 - * The limit of CISPR 22 is applied for FCC Part-15.
 - * Measurement uncertainty: ± 2.5 dB (K = 2, 95 %)


 Tested by

POWER LINE CONDUCTED EMISSION MEASUREMENT

No: #05-042-OE3 (2 / 2)

--- Quasi-Peak Mode ---

EUT Name: Personal computer TYPE: B6110D S/N: Pre-production sample
Limit: CISPR22 Class B Test voltage: 230 VAC, Single phase
Test date: 2005/04/24 Temp: 23 °C R/H: 35 %
AMN: Kyoritsu KMW-407 S/N: 8-823-18 Receiver: HP 85422E S/N: 3746A00242
Test site: 2nd semianchoic chamber Assisted software: EMI measurement software of Version 1.3

FUJITSU GENERAL EMC

