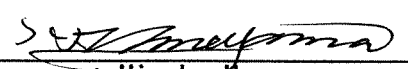


DATA OF CONDUCTION TEST

A-Pex International Co., Ltd.
No.2 SEMI ANECHOIC CHAMBER
Report No. : 23EE0036-H0- 1

Applicant : Sony Corporation
Kind of Equipment : Personal Entertainment Organizer
Model No. : PEG-TG50/U
Serial No. : PVT31
Power : DC5.2V (AC120V/60Hz)
Mode : Tx (2441MHz)
Remarks : FCC ID:AK8PEGTG50 IC Number:409B-PEGTG50
Date : 12/26/2002
Phase : Single Phase
Temperature : 25 °C
Humidity : 36 %
Regulation : FCC 15.207 (0.15-30MHz)

Engineer :  Hiroka Umeyama

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV				QP	AV	QP	AV	QP	AV
		[dBuV]		[dBuV]					[dBuV]		[dBuV]		[dB]	
1.	0.1723	46.2	-	45.5	-	0.0	0.1	0.0	46.3	-	64.8	54.8	18.5	-
2.	0.2146	41.9	-	41.8	-	0.0	0.1	0.0	42.0	-	63.0	53.0	21.0	-
3.	0.3047	35.5	-	34.7	-	0.0	0.1	0.0	35.6	-	60.1	50.1	24.5	-
4.	0.5166	26.2	-	25.8	-	0.1	0.1	0.0	26.4	-	56.0	46.0	29.6	-
5.	2.1545	29.0	-	26.9	-	0.1	0.3	0.0	29.4	-	56.0	46.0	26.6	-
6.	5.0024	24.1	-	23.7	-	0.2	0.6	0.0	24.9	-	60.0	50.0	35.1	-
7.	8.2310	21.9	-	22.5	-	0.3	0.7	0.0	23.5	-	60.0	50.0	36.5	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

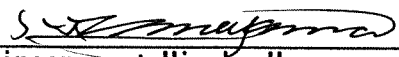
Except for the above table : adequate margin data below the limits.

LISN:MLS-06

DATA OF CONDUCTION TEST

A-Pex International Co., Ltd.
No.2 SEMI ANECHOIC CHAMBER
Report No. : 23EE0036-H0- 1

Applicant : Sony Corporation
Kind of Equipment : Personal Entertainment Organizer
Model No. : PEG-TG50/U
Serial No. : PVT31
Power : DC5.2V (AC120V/60Hz)
Mode : Tx (2441MHz)
Remarks : FCC ID:AK8PEGTG50 IC Number:409B-PEGTG50
Date : 12/26/2002
Phase : Single Phase
Temperature : 25 °C
Humidity : 36 %
Regulation : FCC 15.207 (0.15-30MHz)


Engineer : Hiroka Umeyama

Emission Level [dB μ V]

□ Quasi-Peak

× Average

100

90

80

70

60

50

40

30

20

10

0

0.009

0.1

1

Frequency [MHz]

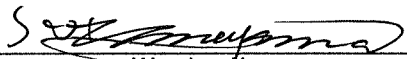
10

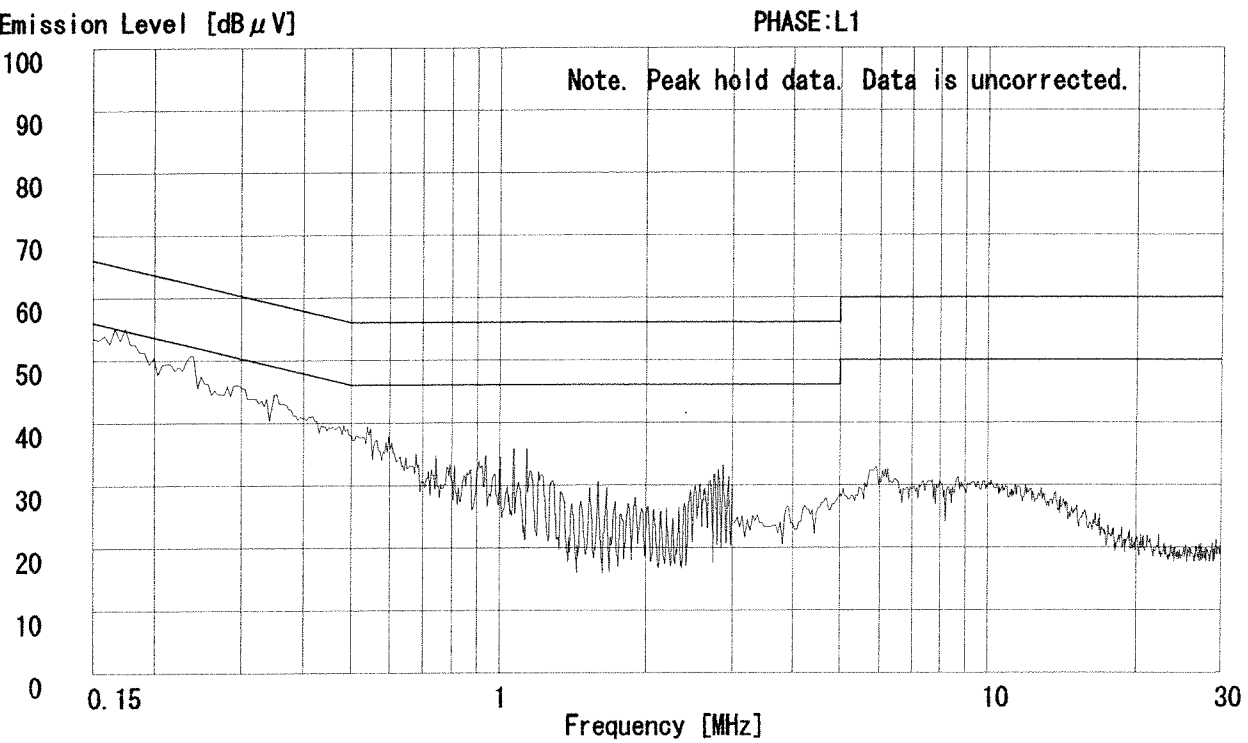
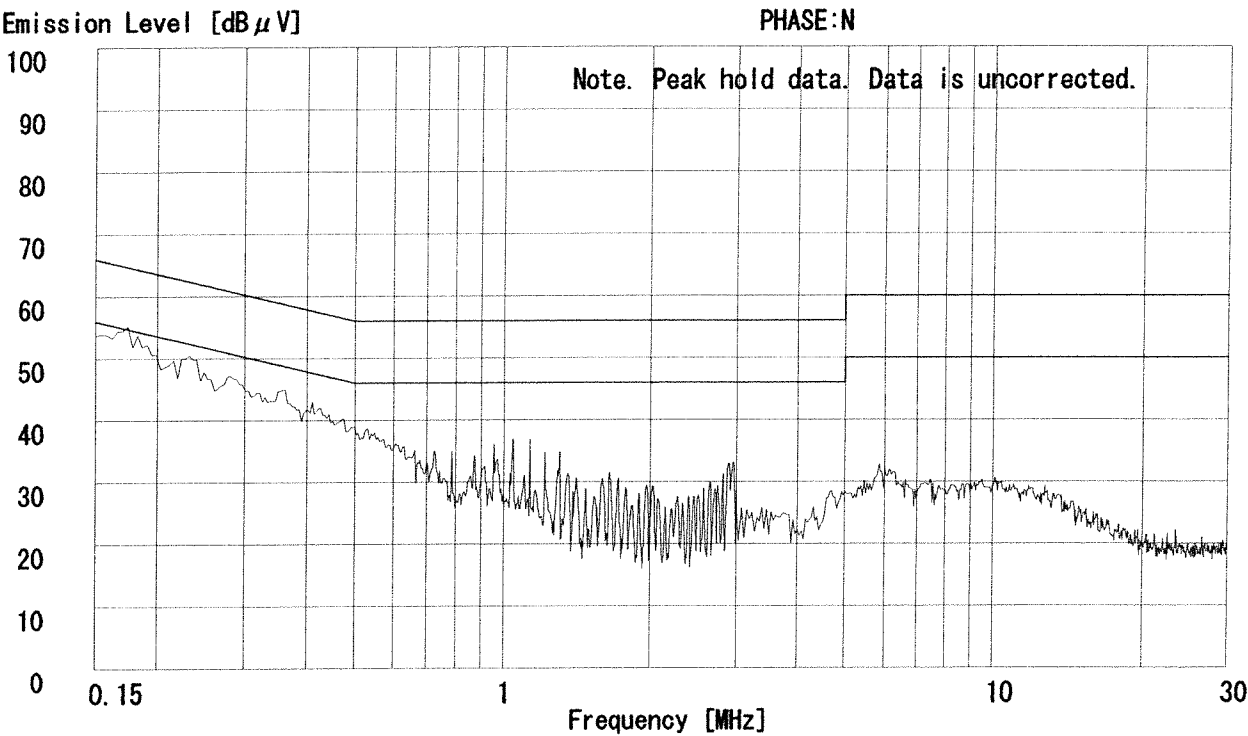
30

DATA OF CONDUCTION TEST CHART

A-Pex International Co., Ltd.
No.2 SEMI ANECHOIC CHAMBER
Report No. : 23EE0036-H0- 1

Applicant : Sony Corporation
Kind of Equipment : Personal Entertainment Organizer
Model No. : PEG-TG50/U
Serial No. : PVT31
Power : DC5. 2V (AC120V/60Hz)
Mode : Tx (2402MHz)
Remarks : FCC ID:AK8PEGTG50 IC Number:409B-PEGTG50
Date : 12/26/2002
Phase : Single Phase
Temperature : 25 °C
Humidity : 36 %
Regulation 1 : FCC 15. 207 (0. 15-30MHz)
Regulation 2 : None

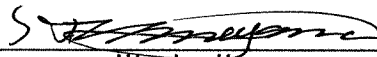

Engineer : Hiroka Umeyama



DATA OF CONDUCTION TEST CHART

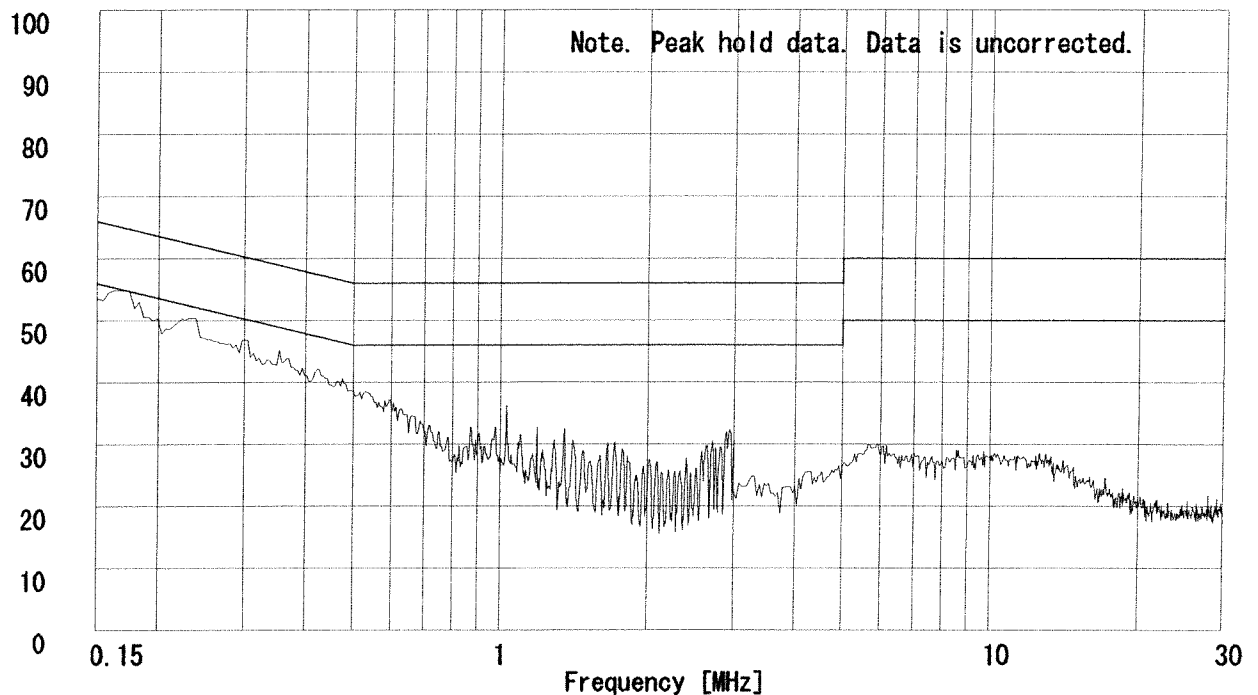
A-Pex International Co., Ltd.
No.2 SEMI ANECHOIC CHAMBER
Report No. : 23EE0036-H0-1

Applicant : Sony Corporation
Kind of Equipment : Personal Entertainment Organizer
Model No. : PEG-TG50/U
Serial No. : PVT31
Power : DC5.2V (AC120V/60Hz)
Mode : Tx (2441MHz)
Remarks : FCC ID:AK8PEGTG50 IC Number:409B-PEGTG50
Date : 12/26/2002
Phase : Single Phase
Temperature : 25 °C
Humidity : 36 %
Regulation 1 : FCC 15.207 (0.15-30MHz)
Regulation 2 : None


Engineer : Hiroka Uneyama

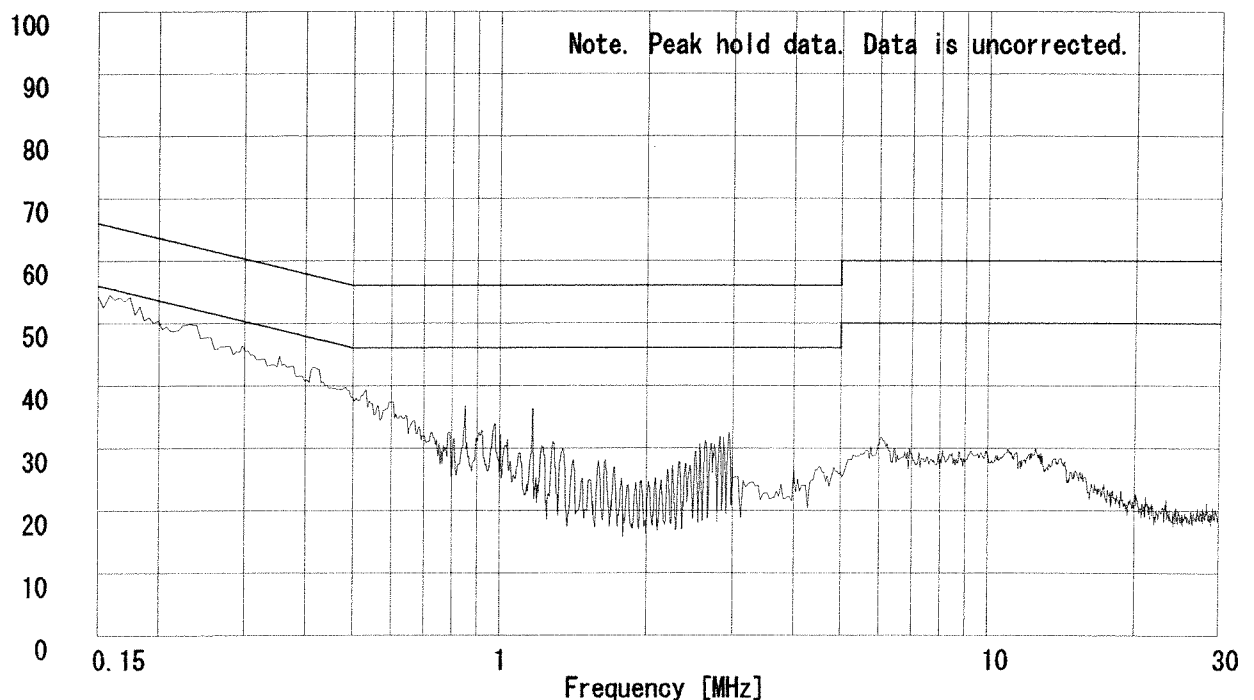
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1

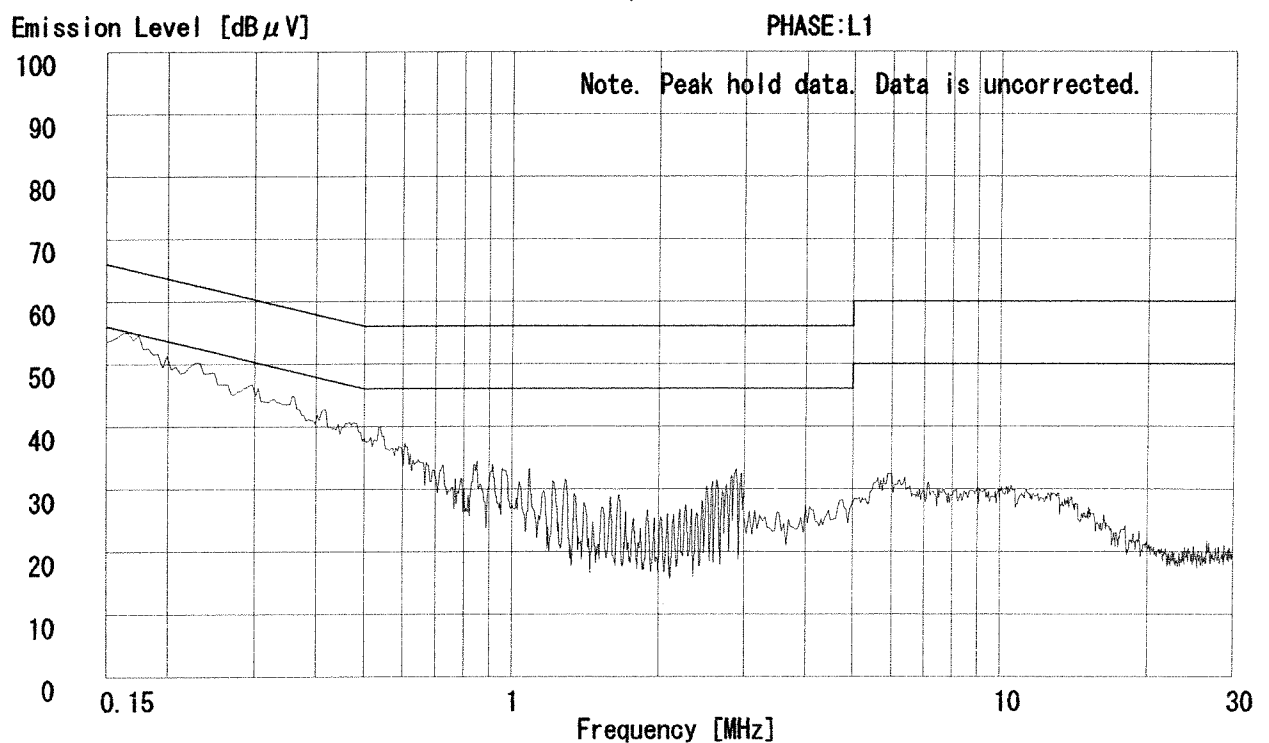
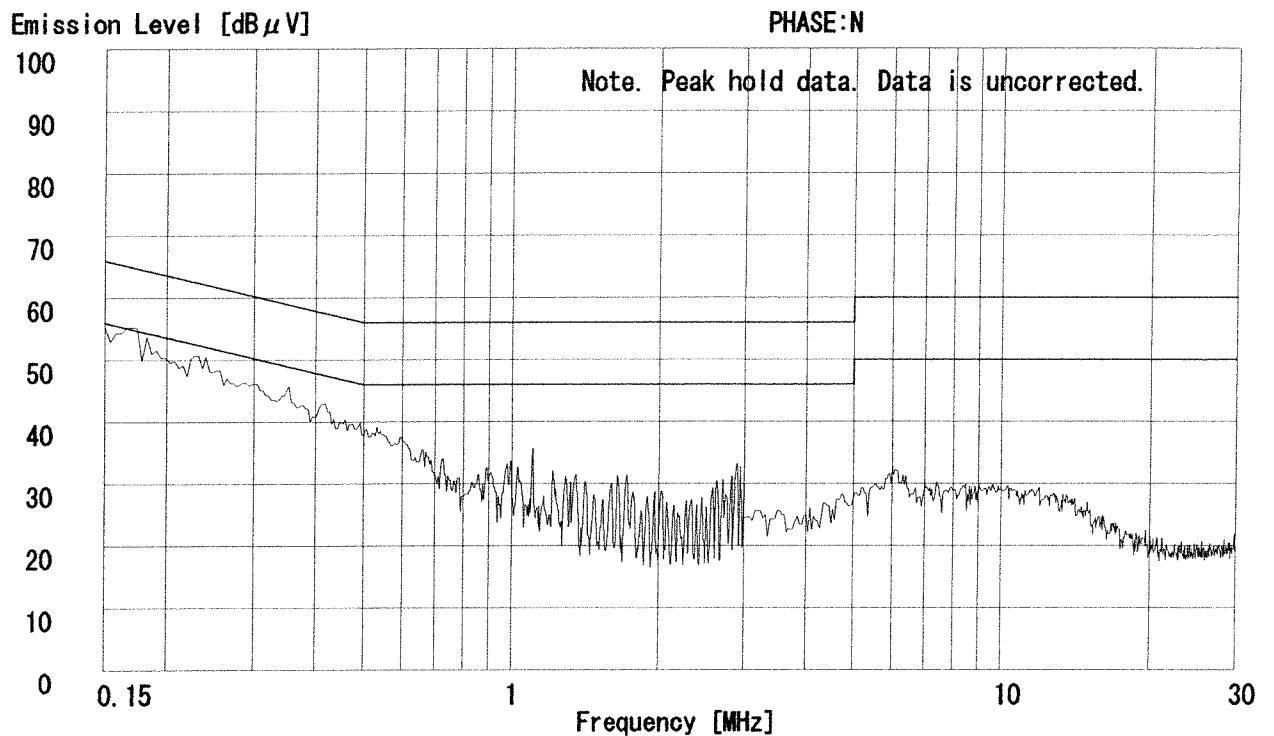


DATA OF CONDUCTION TEST CHART

A-Pex International Co., Ltd.
No.2 SEMI ANECHOIC CHAMBER
Report No. : 23EE0036-H0-1

Applicant : Sony Corporation
Kind of Equipment : Personal Entertainment Organizer
Model No. : PEG-TG50/U
Serial No. : PVT31
Power : DC5.2V (AC120V/60Hz)
Mode : Tx (2480MHz)
Remarks : FCC ID:AK8PEGTG50 IC Number:409B-PEGTG50
Date : 12/26/2002
Phase : Single Phase
Temperature : 25 °C
Humidity : 36 %
Regulation 1 : FCC 15.207 (0.15-30MHz)
Regulation 2 : None

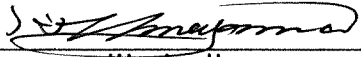
S. Umeyama
Engineer : Hiroka Umeyama



DATA OF CONDUCTION TEST CHART

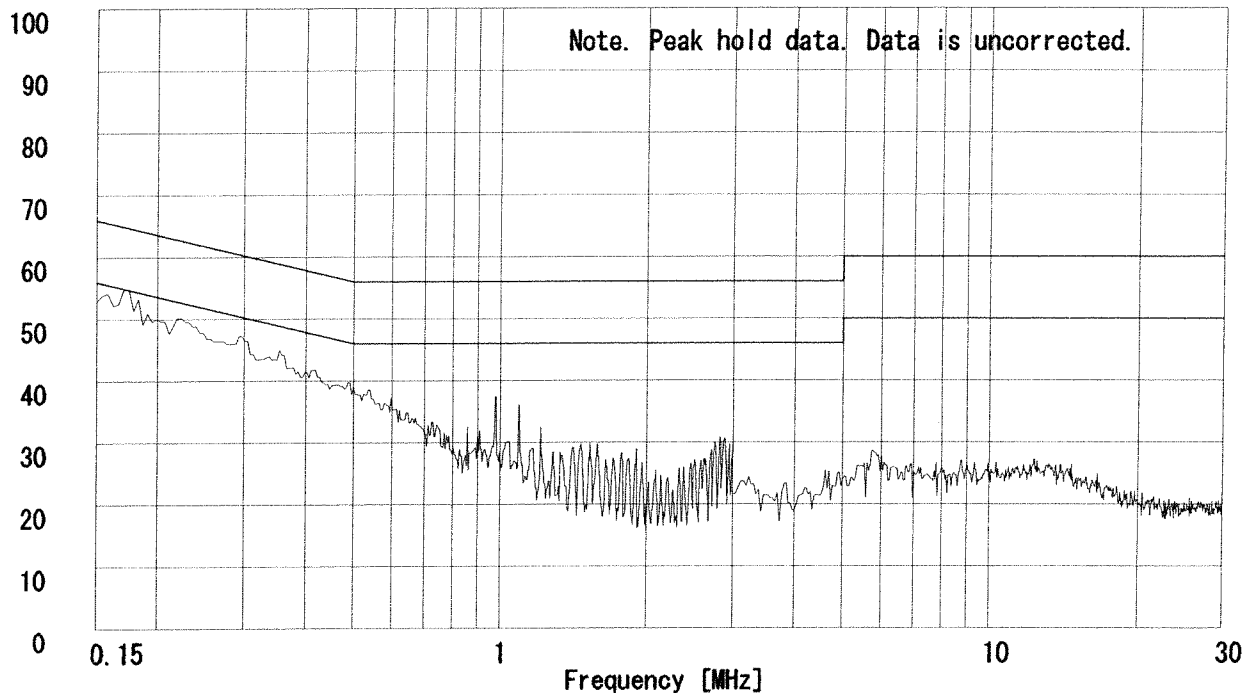
A-Pex International Co., Ltd.
No.2 SEMI ANECHOIC CHAMBER
Report No. : 23EE0036-H0 - 1

Applicant : Sony Corporation
Kind of Equipment : Personal Entertainment Organizer
Model No. : PEG-TG50/U
Serial No. : PVT31
Power : DC5.2V (AC120V/60Hz)
Mode : Standby
Remarks : FCC ID:AK8PEGTG50 IC Number:409B-PEGTG50
Date : 12/26/2002
Phase : Single Phase
Temperature : 25 °C
Humidity : 36 %
Regulation 1 : FCC 15.207 (0.15-30MHz)
Regulation 2 : None


Engineer : Hiroka Umeyama

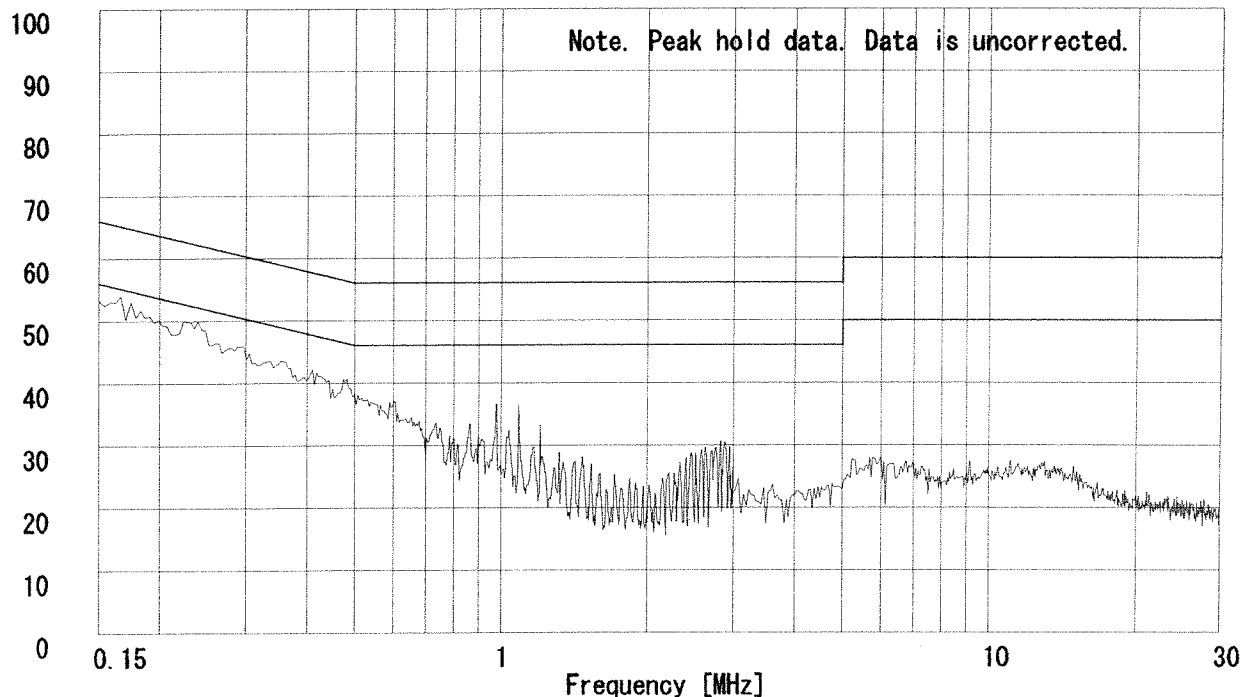
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF CARRIER FREQUENCY SEPARATION

A-Pex International Co., Ltd.

EMC HEAD OFFICE DIVISION No.2 SEMI ANECHOIC CHAMBER

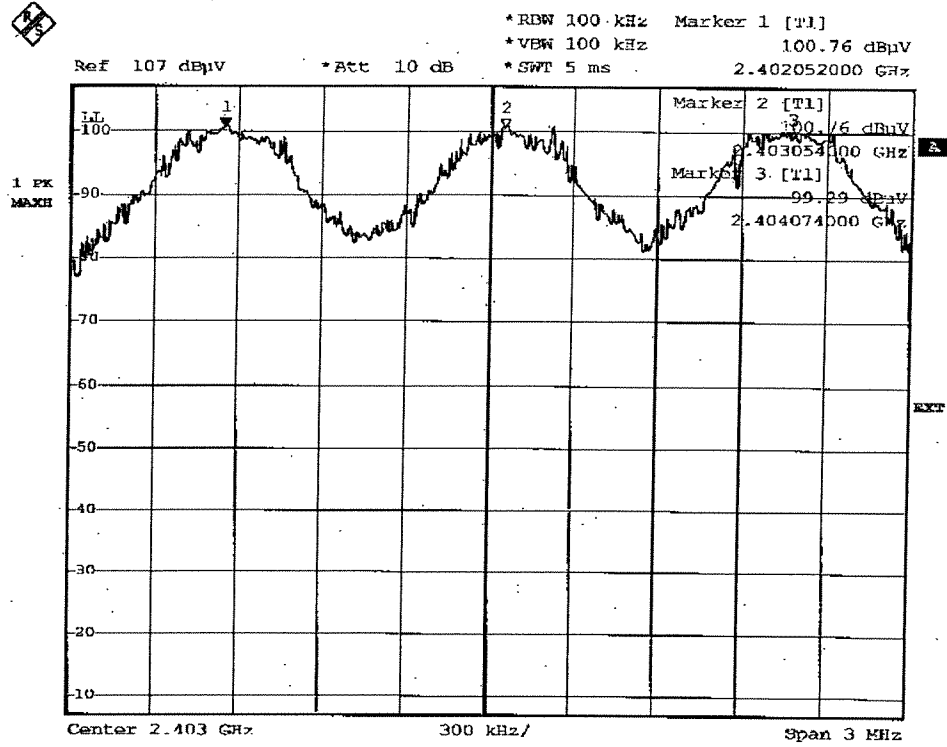
COMPANY	: Sony Corporation	REPORT NO	: 23EE0036-HO - 1
EQUIPMENT	: Personal Entertainment Organizer	REGULATION	: Fcc Part15 Subpart C 15.247(a)(1)
MODEL	: PEG-TG50/U	TEST DISTANCE	: -
S/ N	: PVT28	DATE	: 12/27/2002
FCC ID	: AK8PEGTG50	TEMPERATURE	: 19°C
IC Number	: 409B-PEGTG50	HUMIDITY	: 31%
POWER	: DC5.2V(AC120V/60Hz)		
MODE	: Tx (Hopping on) /Inquiry		

Engineer: 
Hiroka Umeyama

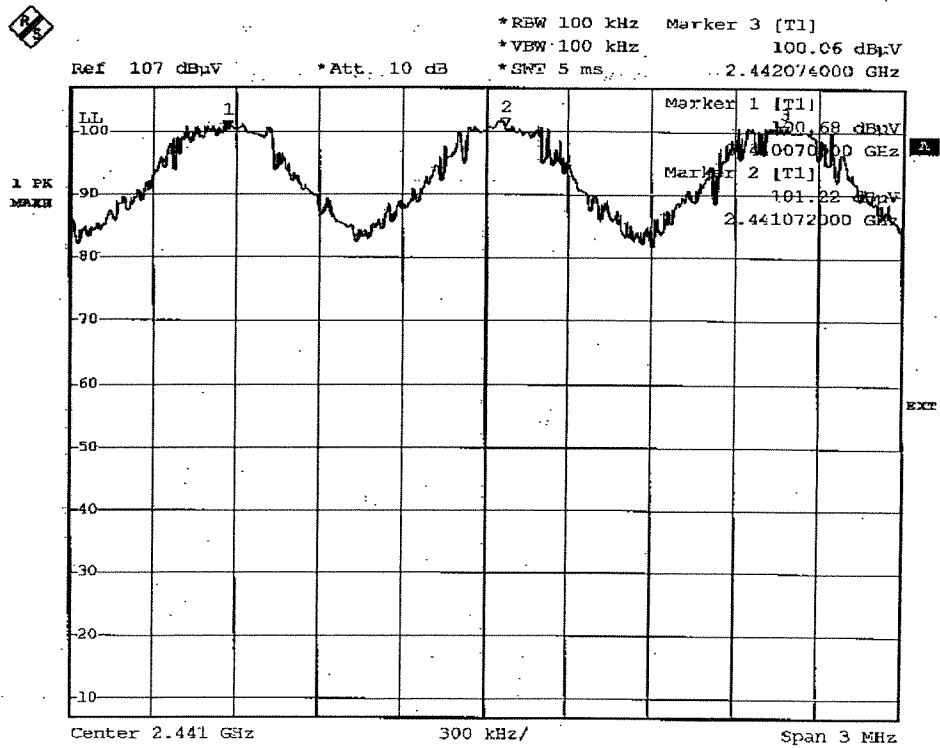
PK DETECT(S/A :span 3MHz, RBW 100kHz ,VBW 100kHz, sweep time AUTO)

CH	FREQ	Channel separation	Limit
	[MHz]	[MHz]	
Low	2402.0	1.000	>20dB Bandwidth and 25[kHz]
Mid	2441.0	1.000	>20dB Bandwidth and 25[kHz]
High	2480.0	1.000	>20dB Bandwidth and 25[kHz]
Inquiry	2441.0	1.000	>20dB Bandwidth and 25[kHz]

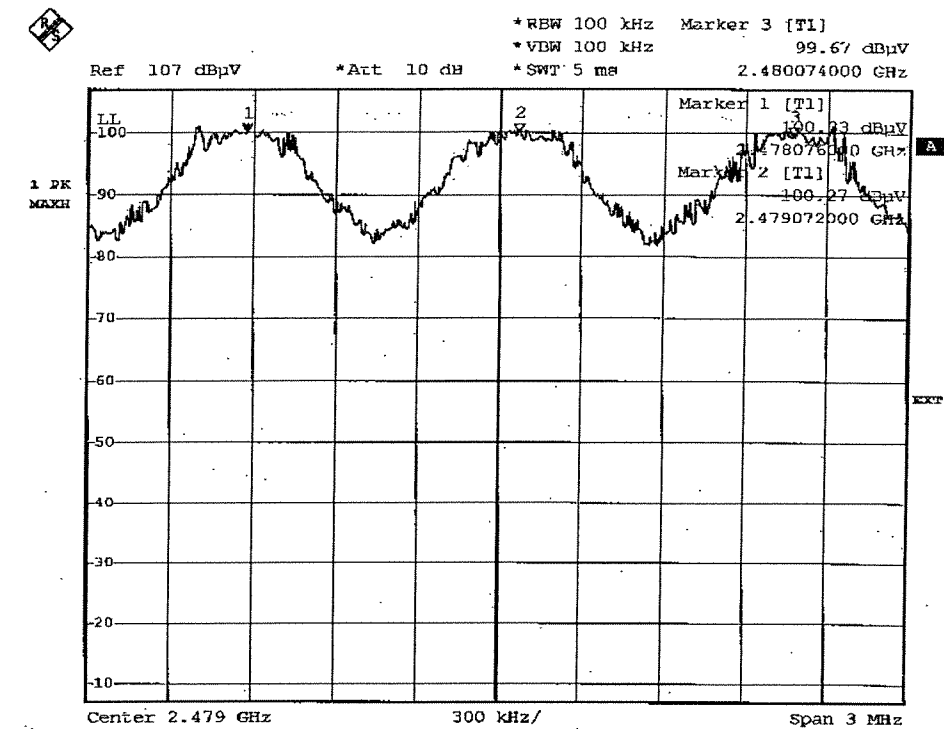
Carrier Frequency Separation :Tx(Hopping on)2402MHz



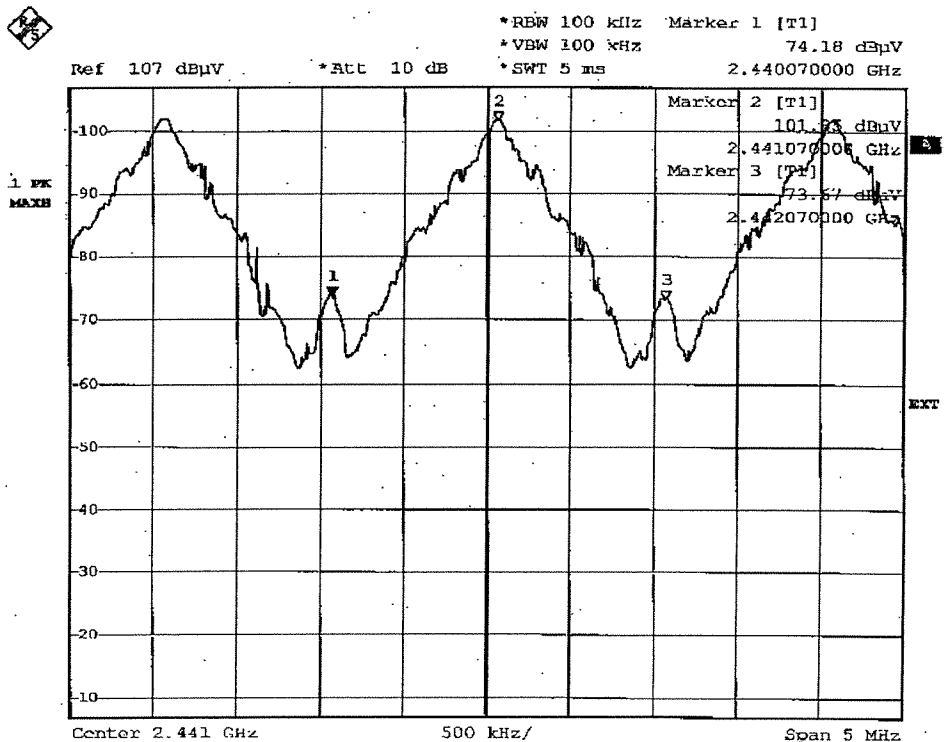
Carrier Frequency Separation :Tx(Hopping on)2441MHz



Carrier Frequency Separation :Tx(Hopping on)2480MHz



Carrier Frequency Separation :Inquiry



DATA OF 20dB BANDWIDTH

A-Pex International Co., Ltd.

EMC HEAD OFFICE DIVISION No.2 SEMI ANECHOIC CHAMBER

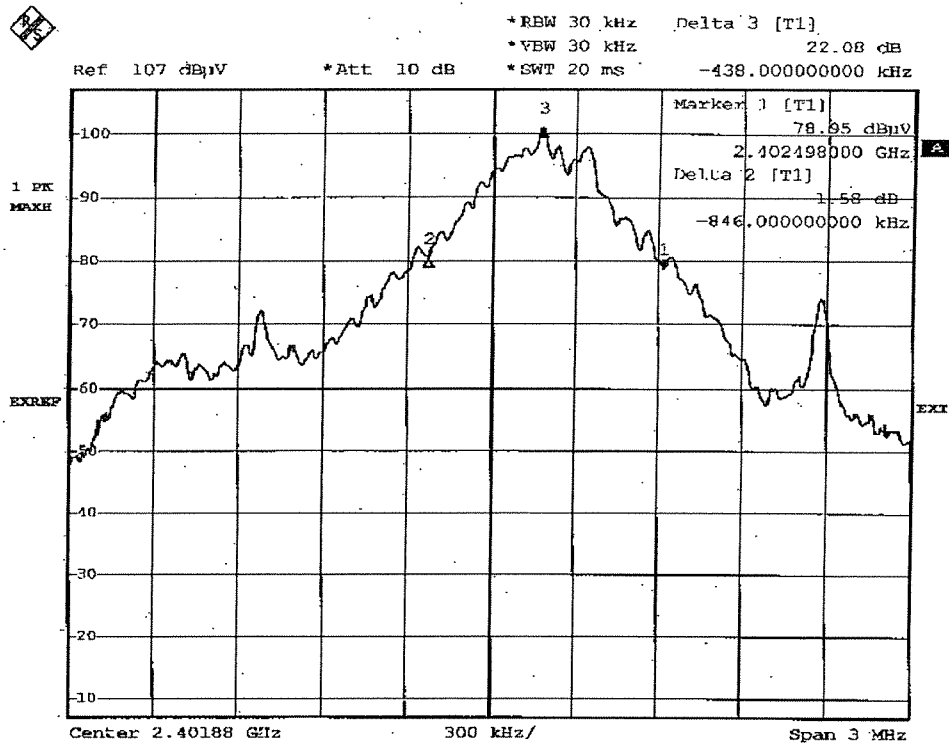
COMPANY	: Sony Corporation	REPORT NO	: 23EE0036-HO-1
EQUIPMENT	: Personal Entertainment Organizer	REGULATION	: Fcc Part15 Subpart C 15.247(a)(1)
MODEL	: PEG-TG50/U	TEST DISTANCE	: -
S/ N	: PVT28	DATE	: 12/27/2002
FCC ID	: AK8PEGTG50	TEMPERATURE	: 19°C
IC Number	: 409B-PEGTG50	HUMIDITY	: 31%
POWER	: DC5.2V(AC120V/60Hz)		
MODE	: Tx (Hopping off) /Inquiry		

Engineer: 
Hiroka Umeyama

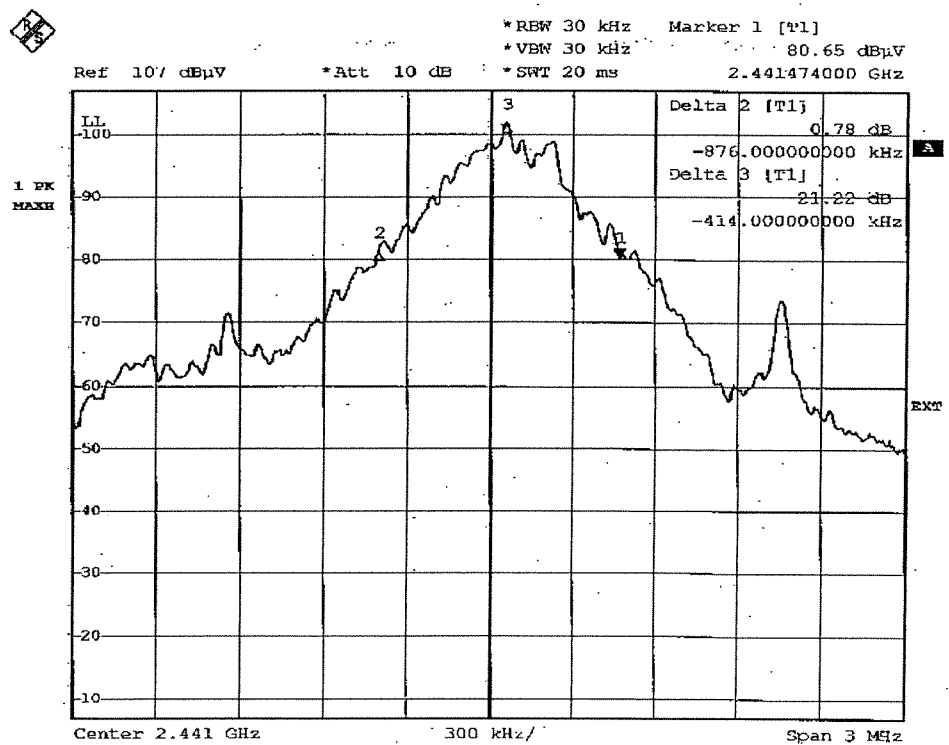
PK DETECT(S/A: span 3MHz, RBW 30kHz, VBW 30kHz, sweep time AUTO)

CH	FREQ	20dB Bandwidth	Limit
	[MHz]	[MHz]	[MHz]
Low	2402.0	0.846	1.0
Mid	2441.0	0.876	1.0
High	2480.0	0.828	1.0
Inquiry	2441.0	0.824	1.0

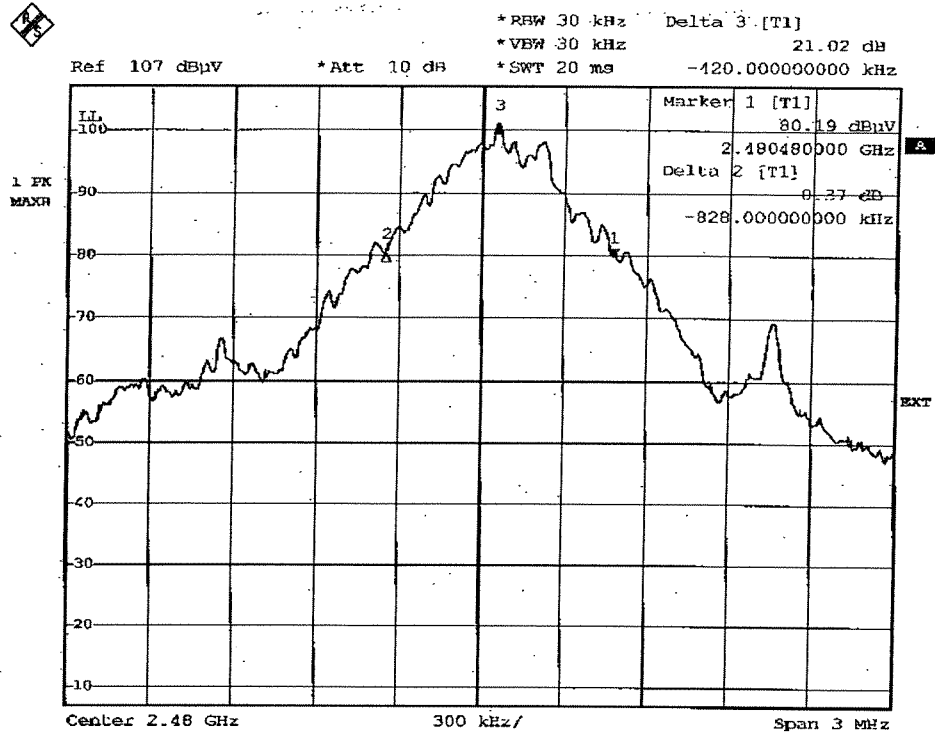
20dB Bandwidth:Tx(Hopping off)2402MHz



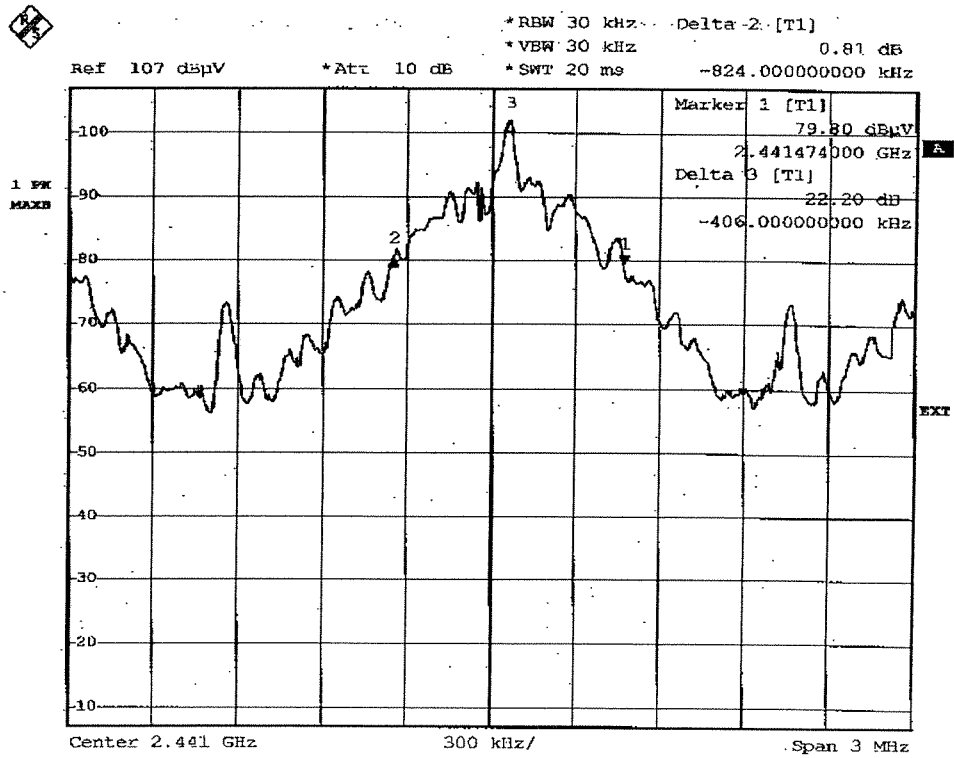
20dB Bandwidth:Tx(Hopping off)2441MHz



20dB Bandwidth:Tx(Hopping off)2480MHz



20dB Bandwidth:Inquiry

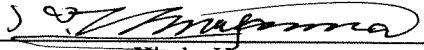


DATA OF NUMBER OF HOPPING FREQUENCY

A-Pex International Co., Ltd.

EMC HEAD OFFICE DIVISION No.2 SEMI ANECHOIC CHAMBER

COMPANY	: Sony Corporation	REPORT NO	: 23EE0036-HO-1
EQUIPMENT	: Personal Entertainment Organizer	REGULATION	: Fcc Part15 Subpart C 15.247(a)(1)(iii)
MODEL	: PEG-TG50/U	TEST DISTANCE	: -
S/ N	: PVT28	DATE	: 12/27/2002
FCC ID	: AK8PEGTG50	TEMPERATURE	: 19°C
IC Number	: 409B-PEGTG50	HUMIDITY	: 31%
POWER	: DC5.2V(AC120V/60Hz)		
MODE	: Tx (Hopping on) /Inquiry		

Engineer : 
Hiroka Umeyama

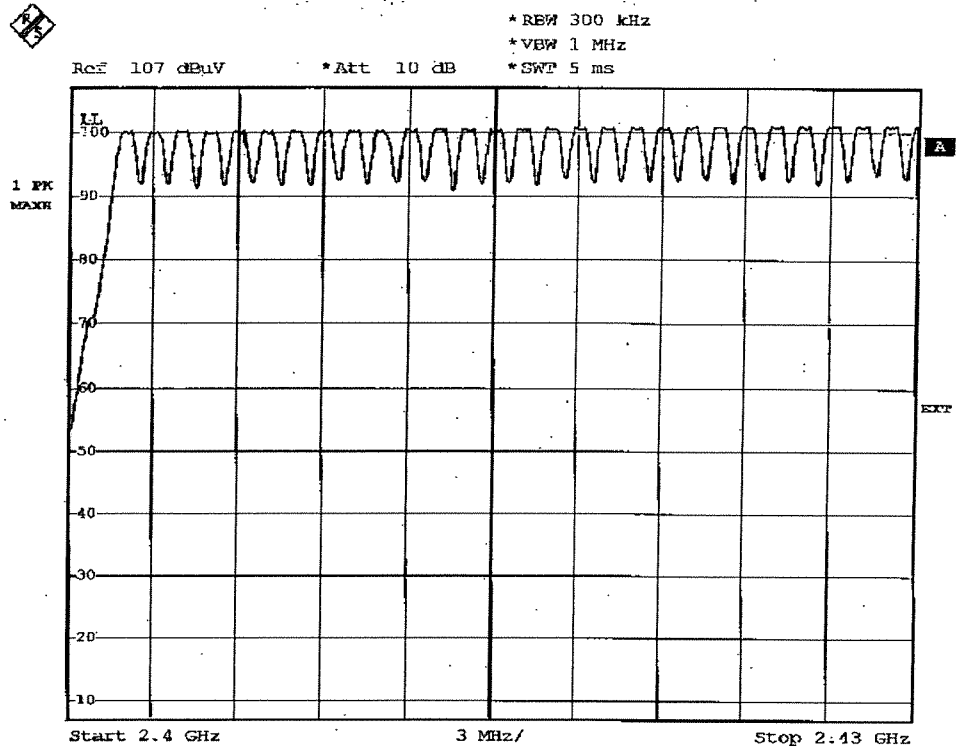
PK DETECT(S/A : RBW 300kHz ,VBW 1MHz, sweep time AUTO)

Mode	Number of channel	Limit
	[time]	[time]
Tx(Hopping on)	79	≥ 15

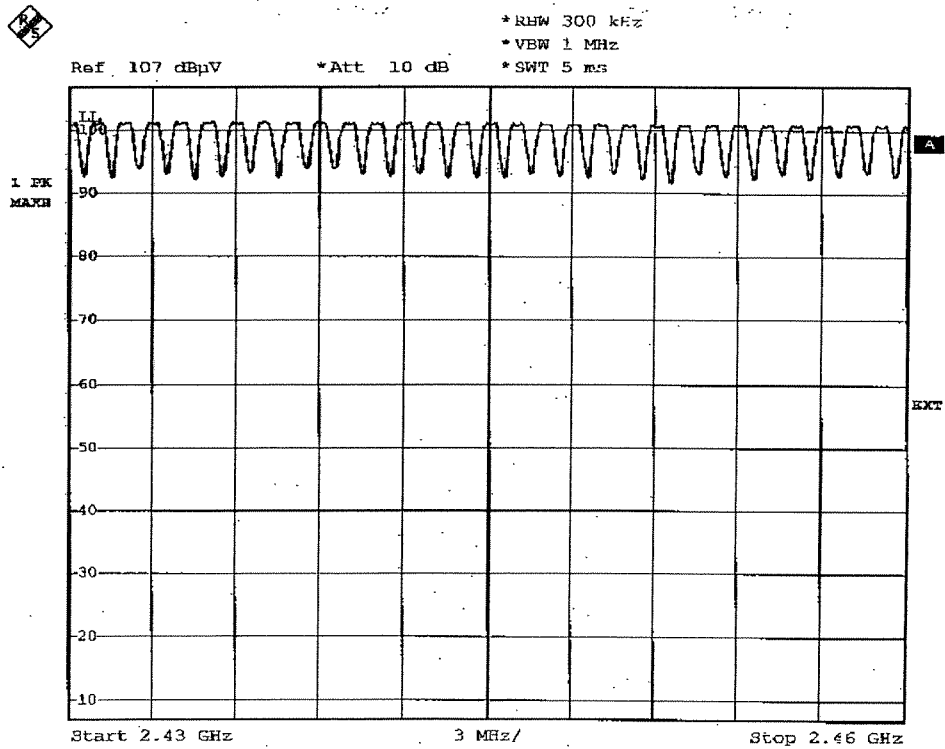
PK DETECT(S/A : RBW 300kHz ,VBW 1MHz, sweep time AUTO)

Mode	Number of channel	Limit
	[time]	[time]
Inquiry	32	≥ 15

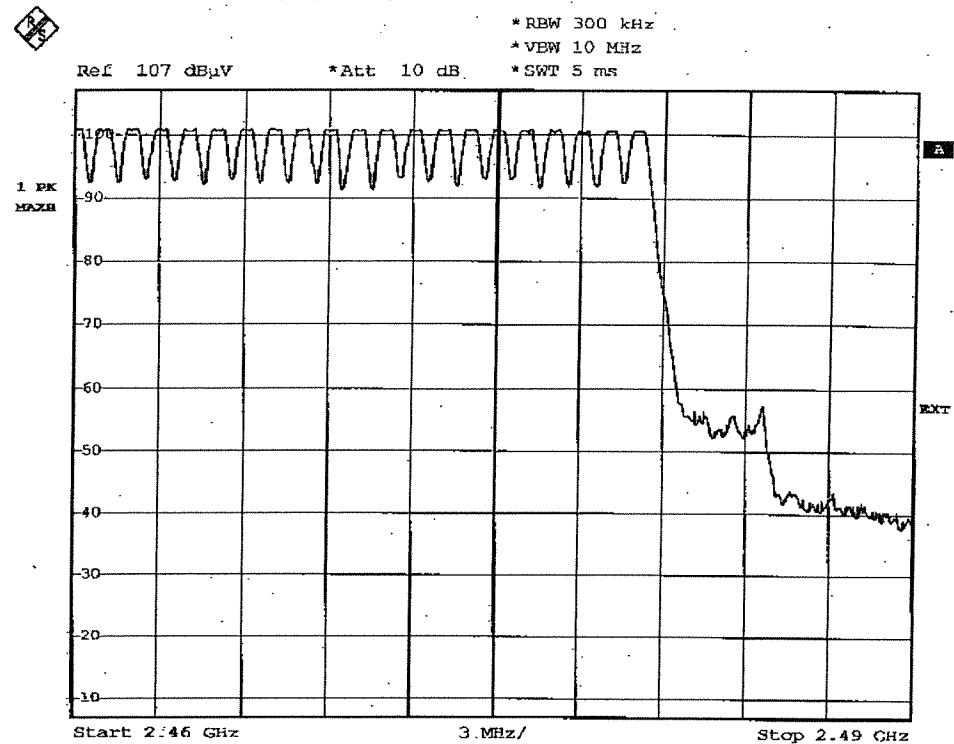
Number of Hopping Frequency :Tx(Hopping on)2400-2430MHz



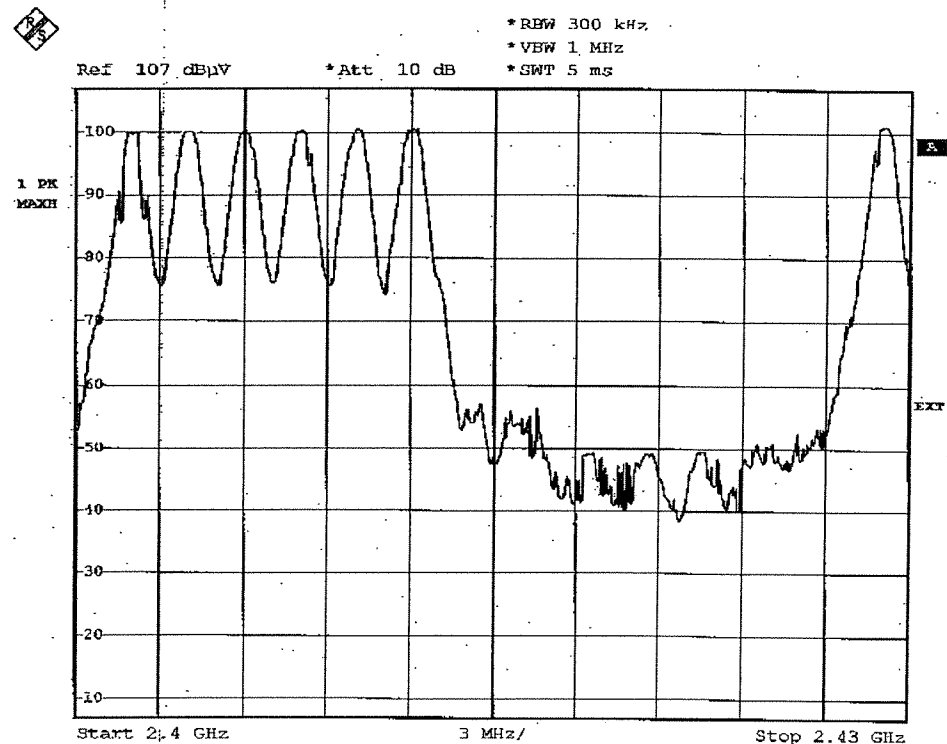
Number of Hopping Frequency :Tx(Hopping on)2430-2460MHz



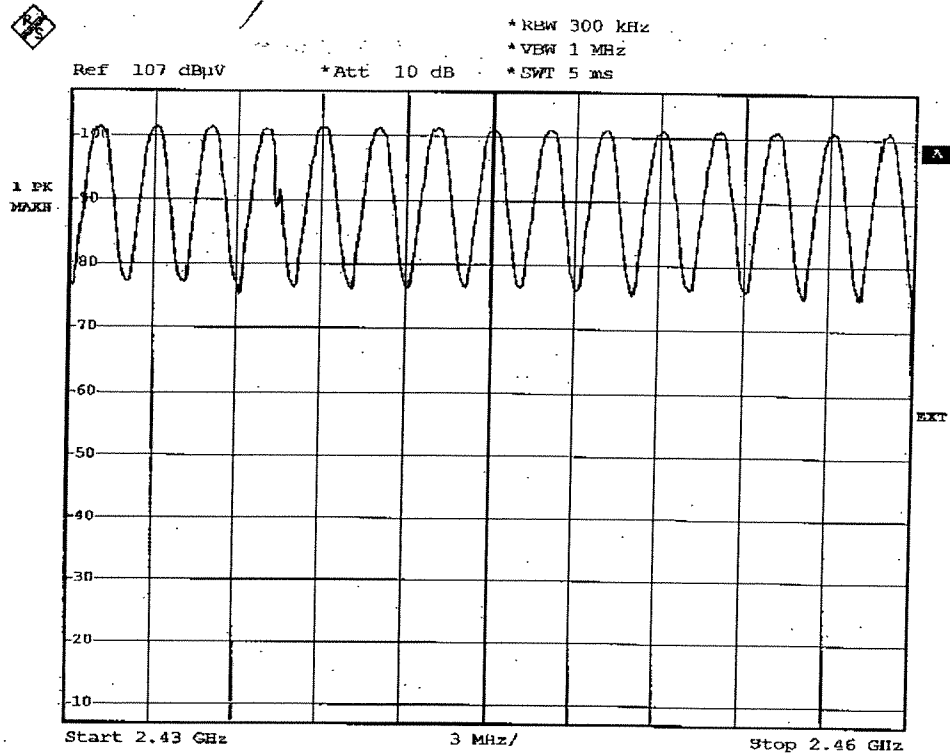
Number of Hopping Frequency :Tx(Hopping on)2460-2490MHz



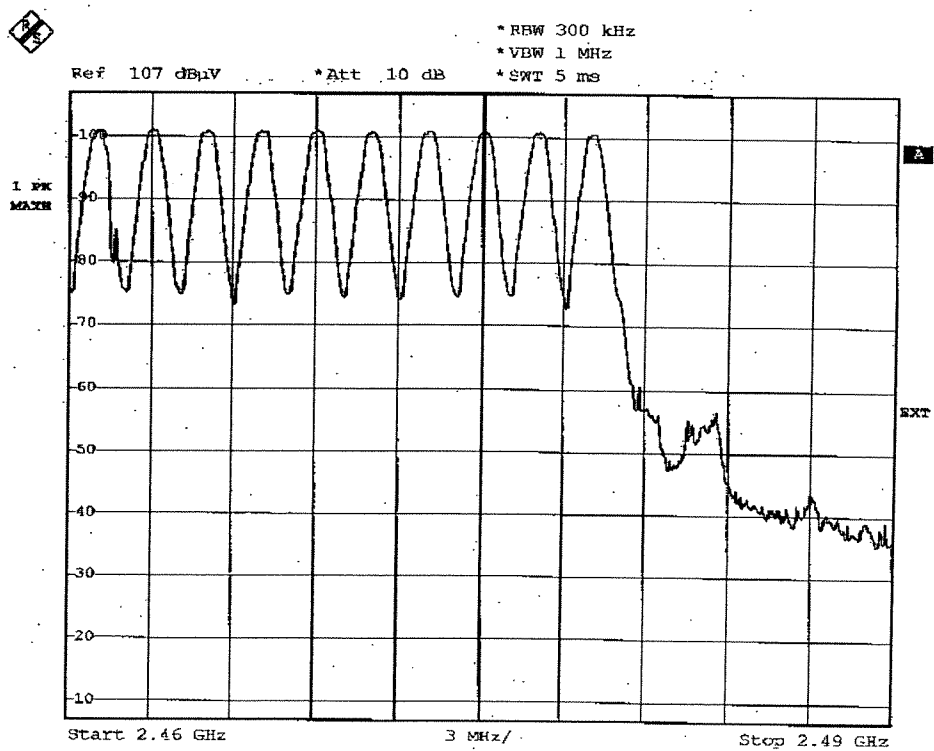
Number of Hopping Frequency :Inquiry2400-2430MHz



Number of Hopping Frequency :Inquiry2430-2460MHz



Number of Hopping Frequency :Inquiry2460-2490MHz



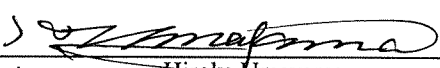
DATA OF DWELL TIME

A-Pex International Co., Ltd.

EMC HEAD OFFICE DIVISION No.2 SEMI ANECHOIC CHAMBER

COMPANY : Sony Corporation
EQUIPMENT : Personal Entertainment Organizer
MODEL : PEG-TG50/U
S/ N : PVT28
FCC ID : AK8PEGTG50
IC Number : 409B-PEGTG50
POWER : DC5.2V(AC120V/60Hz)
MODE : Tx (Hopping off) /Inquiry

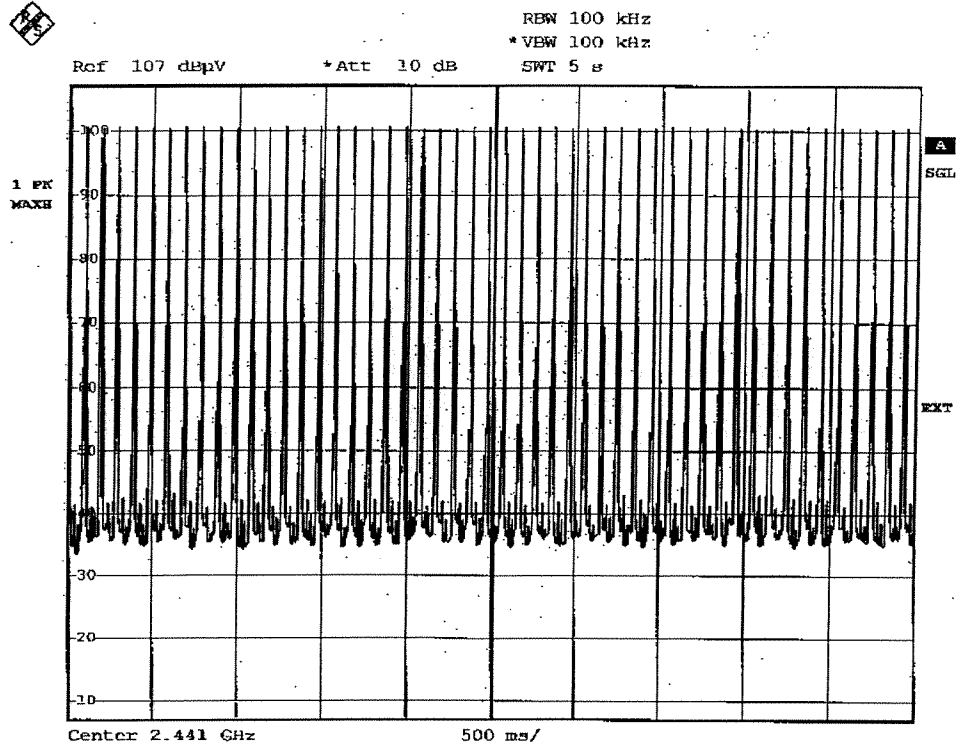
REPORT NO : 23EE0036-HO-1
REGULATION : Fcc Part15 Subpart C 15.247(a)(1)(iii)
TEST DISTANCE : -
DATE : 12/27/2002
TEMPERATURE : 19°C
HUMIDITY : 31%

Engineer : 
Hiroka Umeyama

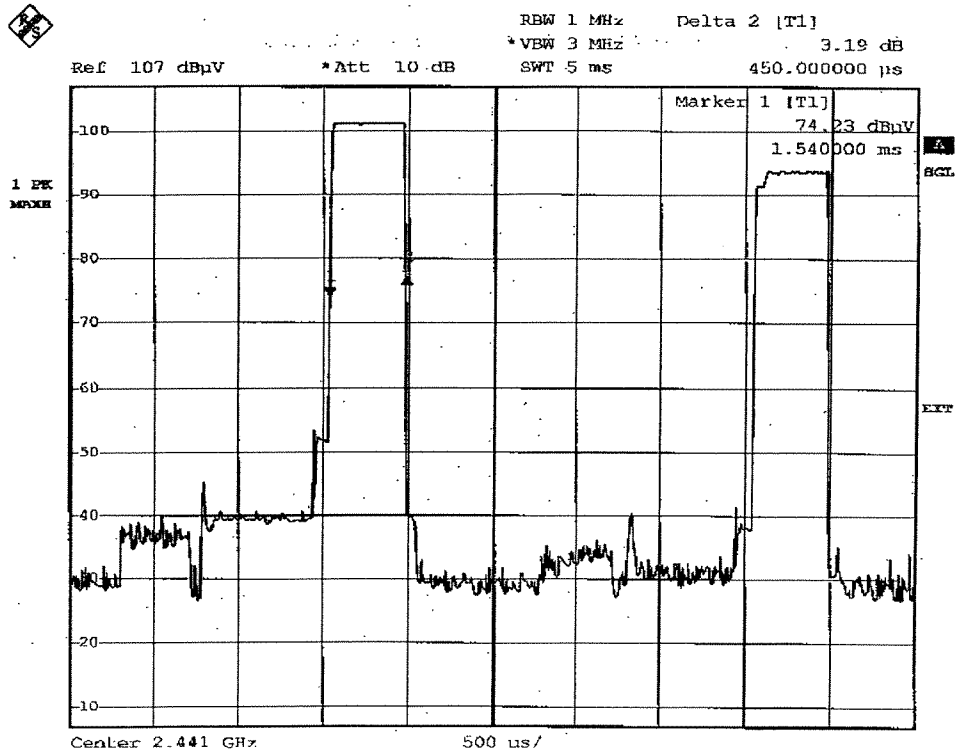
PK DETECT(S/A :span ZERO, RBW 1MHz, VBW 3MHz, sweep time 1ms-10ms)

Mode	Number of transmission in a 31.6(79 Hopping x 0.4) / 12.8(32 Hopping x 0.4)second period	Length of transmission time [msec]	Result [msec]	Limit [msec]
DH1	50 times /5sec. x 6.32 = 316 times	0.450	143	400
DH3	25 times / 5sec. x 6.32 = 158 times	1.690	268	400
DH5	17 times / 5 sec. x 6.32 = 108 times	2.880	312	400
Inquiry	100 times / 1sec. x 12.8 = 1280 times	0.266	341	400

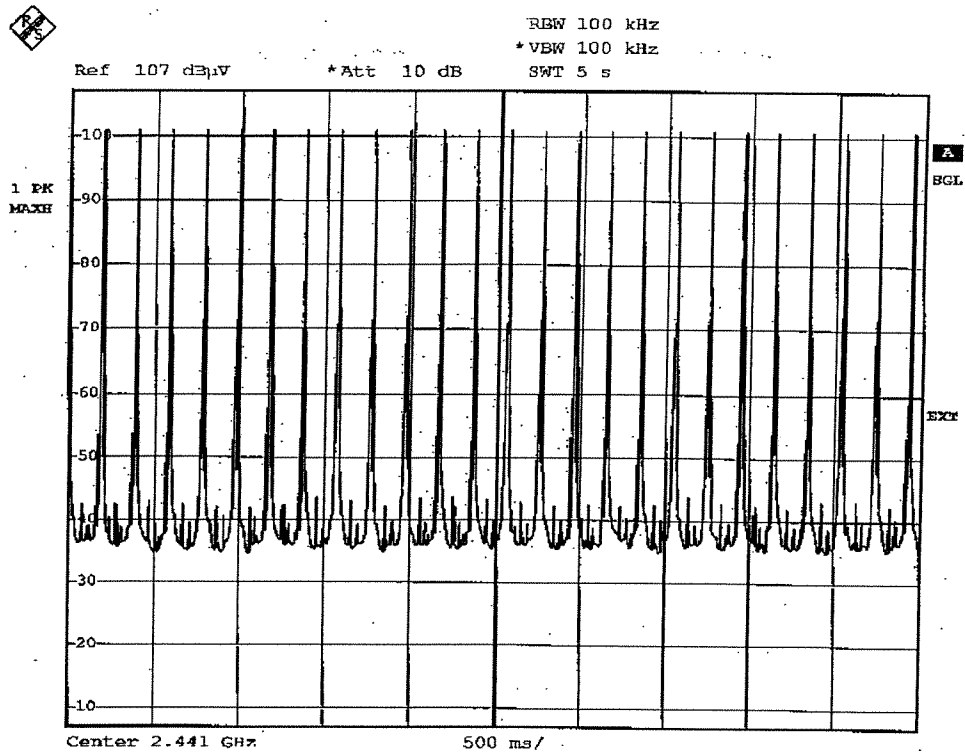
Dwell time :Tx(Hopping on)DH1(1)



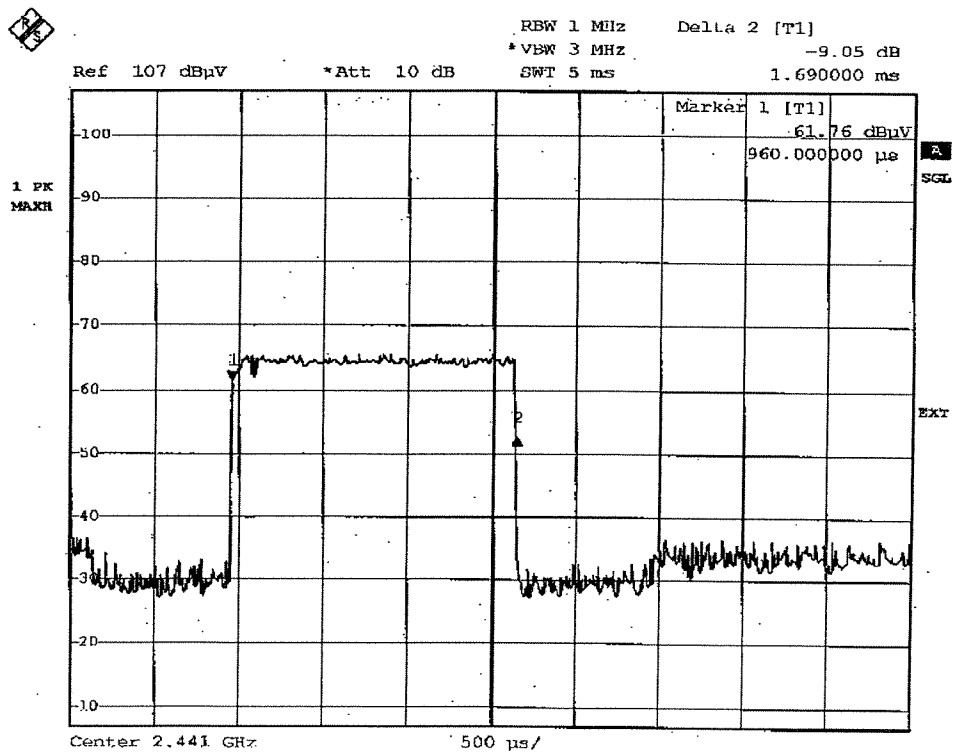
Dwell time :Tx(Hopping on)DH1(2)



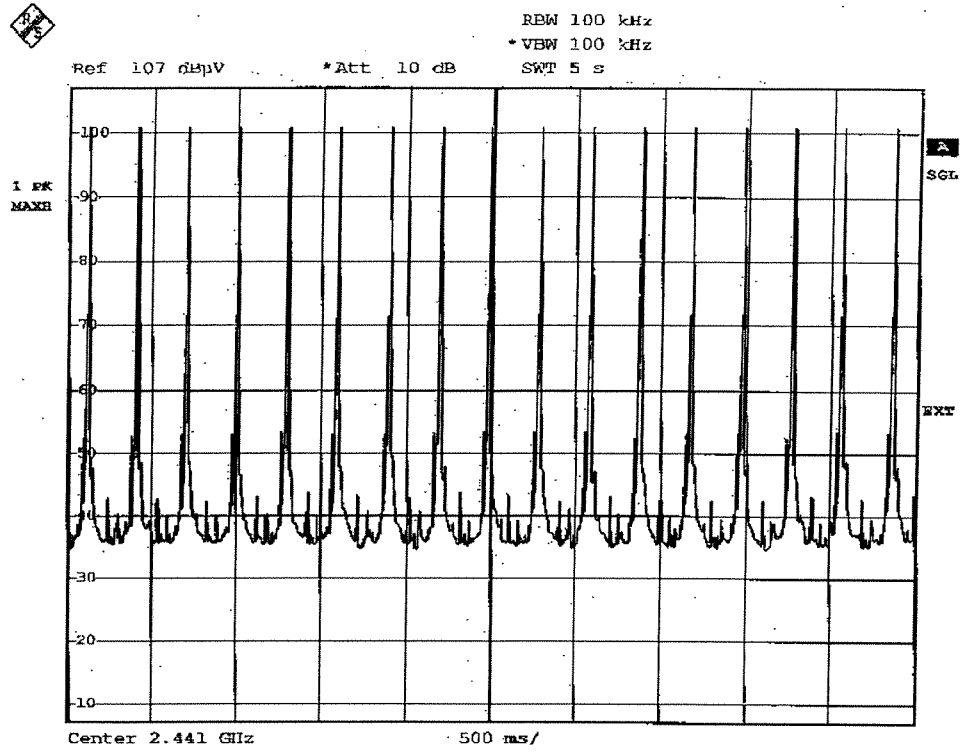
Dwell time :Tx(Hopping on)DH3(1)



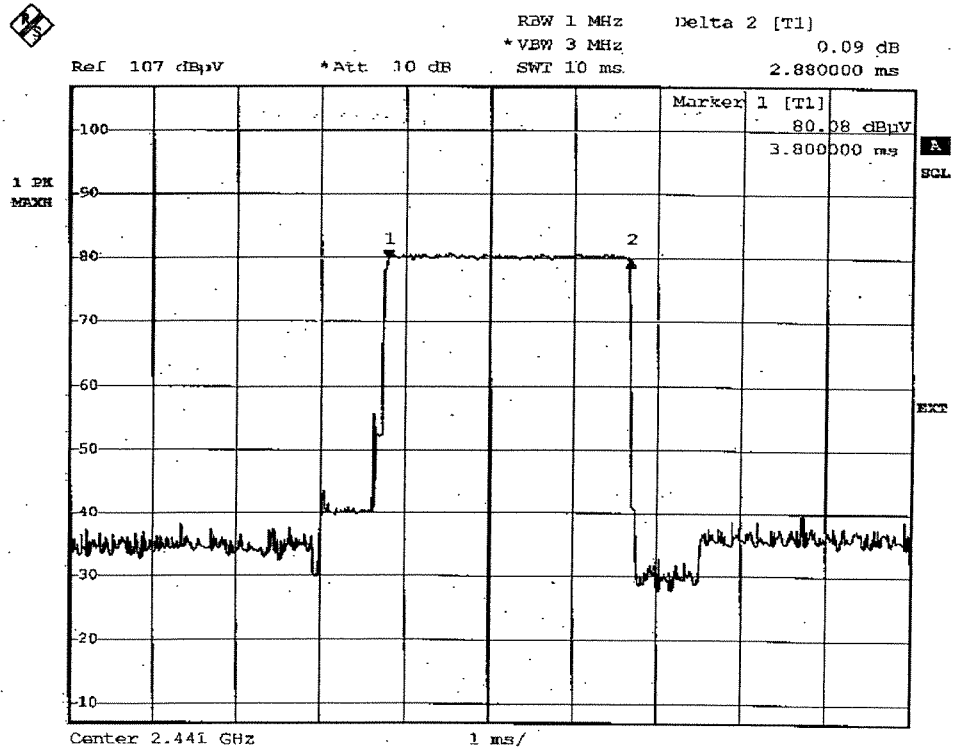
Dwell time :Tx(Hopping on)DH3(2)



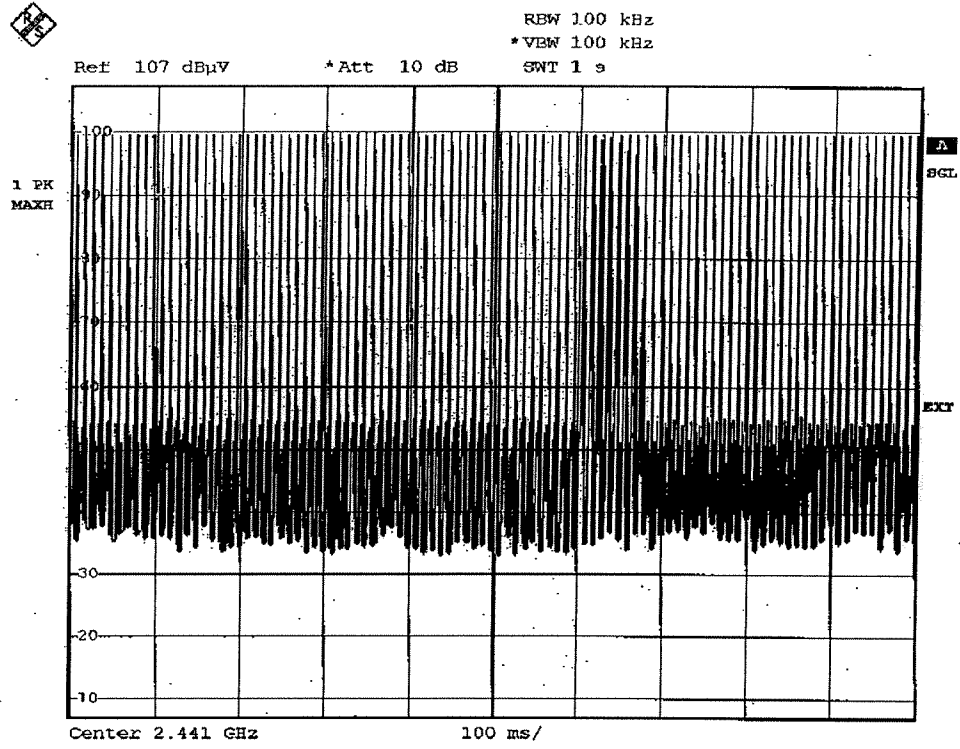
Dwell time :Tx(Hopping on)DH5(1)



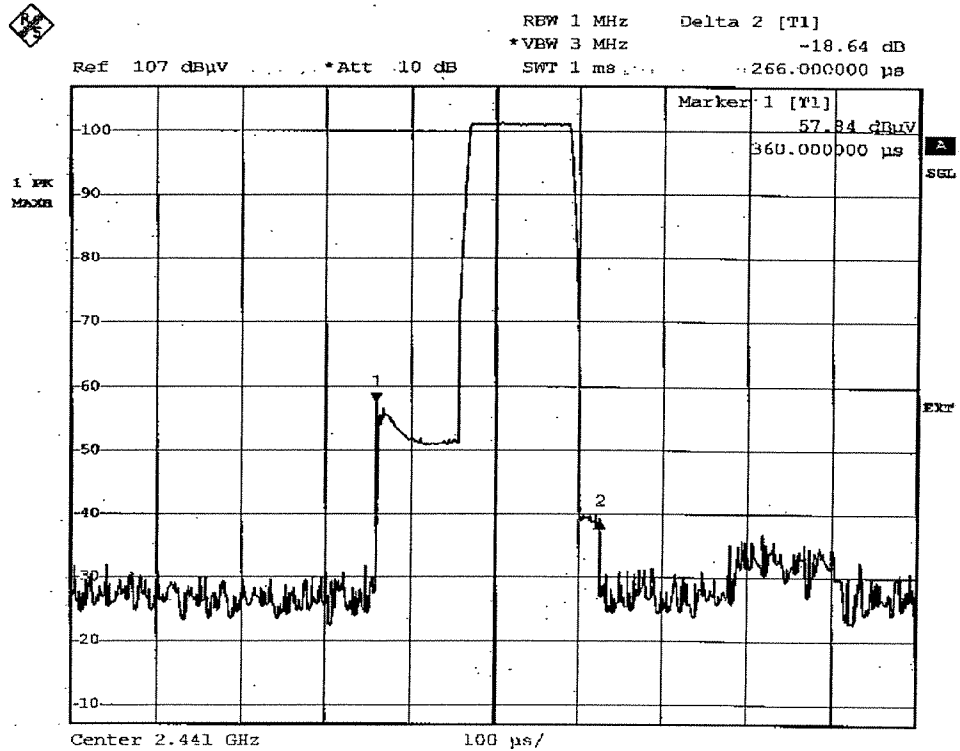
Dwell time :Tx(Hopping on)DH5(2)



Dwell time :Inquiry (1)



Dwell time :Inquiry (2)

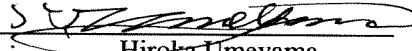


DATA OF PEAK OUTPUT POWER(CONDUCTED)

A-Pex International Co., Ltd.

EMC HEAD OFFICE DIVISION No.2 SEMI ANECHOIC CHAMBER

COMPANY	: Sony Corporation	REPORT NO	: 23EE0036-HO- 1
EQUIPMENT	: Personal Entertainment Organizer	REGULATION	: Fcc Part15 Subpart C 15.247(b)(1)
MODEL	: PEG-TG50/U	TEST DISTANCE	: -
S/ N	: PVT28	DATE	: 12/27/2002
FCC ID	: AK8PEGTG50	TEMPERATURE	: 19°C
IC Number	: 409B-PEGTG50	HUMIDITY	: 31%
POWER	: DC5.2V(AC120V/60Hz)		
MODE	: Tx (Hopping off) /Inquiry		

Engineer :  Hiroka Umeyama

PK DETECT(S/A: span 5MHz, RBW 1MHz,VBW 3MHz, sweep time AUTO)

CH	FREQ [MHz]	T/R Reading [dBuV]	Cable Loss [dB]	Result [dBuV]	Result [dBm]	Limit (1W) [dBm]
Low	2402.0	100.6	2.4	103.0	-3.99	30.0
Mid	2441.0	101.4	2.4	103.8	-3.22	30.0
High	2480.0	100.7	2.4	103.1	-3.91	30.0
Inquiry	2441.0	101.4	2.4	103.8	-3.22	21.0

Sample Calculation :

Result = S/A Reading + Cable Loss (MCC-05 + U.FL-2LP(V)-04-A-100)