

DATA OF CONDUCTION TEST

UL Japan, Inc.
YAMAKITA No.1 SHIELD ROOM
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting:2402MHz (DH5)
 Remarks : -
 Date : 1/25/2008
 Phase : Single Phase
 Temperature : 23 °C
 Humidity : 22 %
 Regulation : FCC Part15B CLASS B (CISPR Pub. 22)

Engineer : Yasumasa Owaki

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.1978	45.8	-	43.2	-	0.1	0.1	0.0	46.0	-	63.7	53.7	17.7	-
2.	0.2630	36.6	-	32.6	-	0.1	0.1	0.0	36.8	-	61.3	51.3	24.5	-
3.	0.5927	32.2	-	31.7	-	0.1	0.2	0.0	32.5	-	56.0	46.0	23.5	-
4.	0.6593	31.9	-	28.8	-	0.1	0.2	0.0	32.2	-	56.0	46.0	23.8	-
5.	1.0539	29.0	-	18.8	-	0.1	0.2	0.0	29.3	-	56.0	46.0	26.7	-
6.	1.1196	29.9	-	21.7	-	0.1	0.2	0.0	30.2	-	56.0	46.0	25.8	-

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

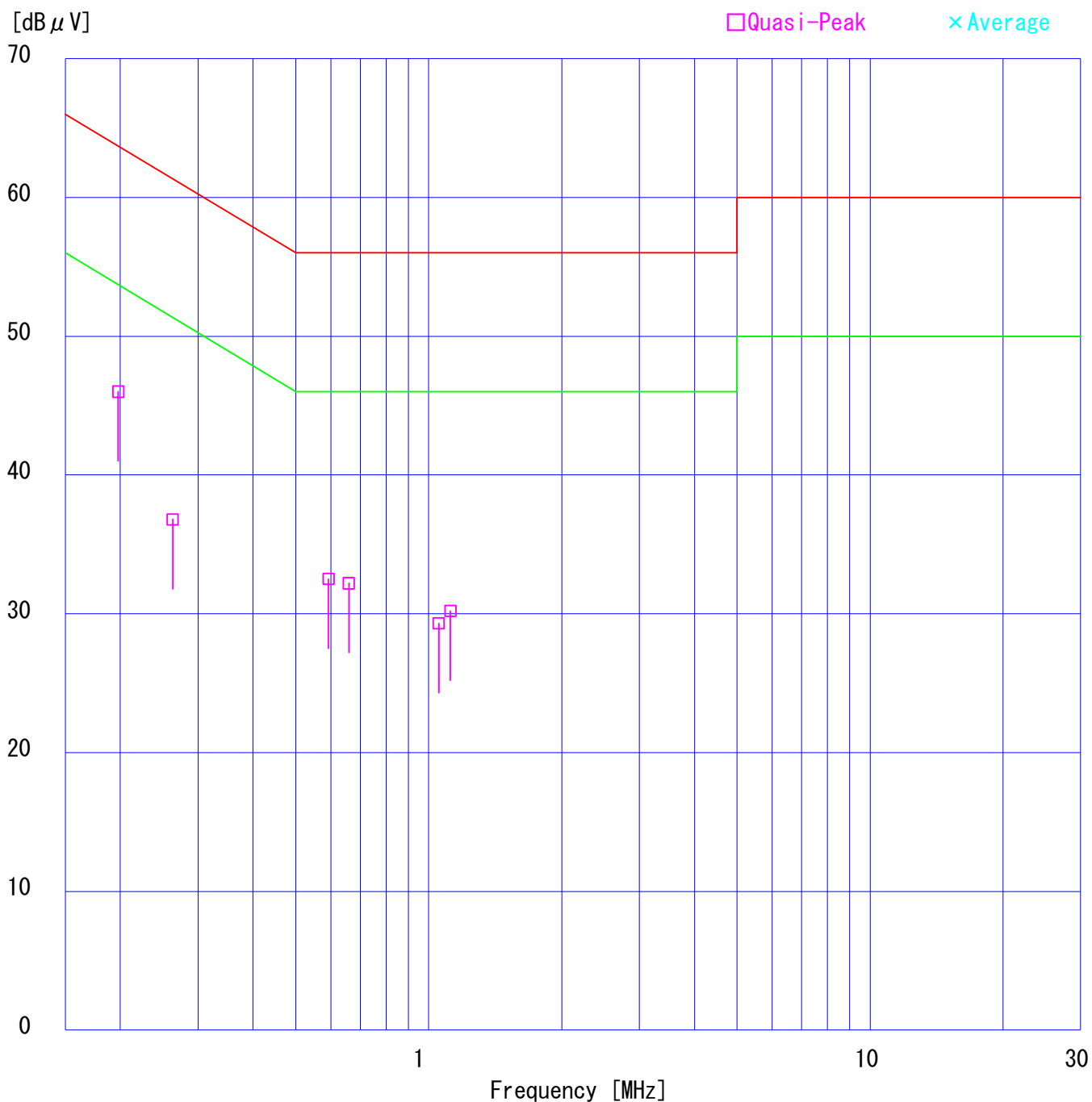
■ LISN: KLS-02 (NSLK8127) ■ COAXIAL CABLE: KCC-14/15/16/18
 ■ PULSE LIMITTER: KPL-01 (PL01) ■ EMI RECEIVER: KTR-02 (ESCS30)

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Phase : Single Phase
Temperature : 23 °C
Humidity : 22 %
Regulation : FCC Part15B CLASS B (CISPR Pub. 22)

Engineer : Yasumasa Owaki



DATA OF CONDUCTION TEST CHART

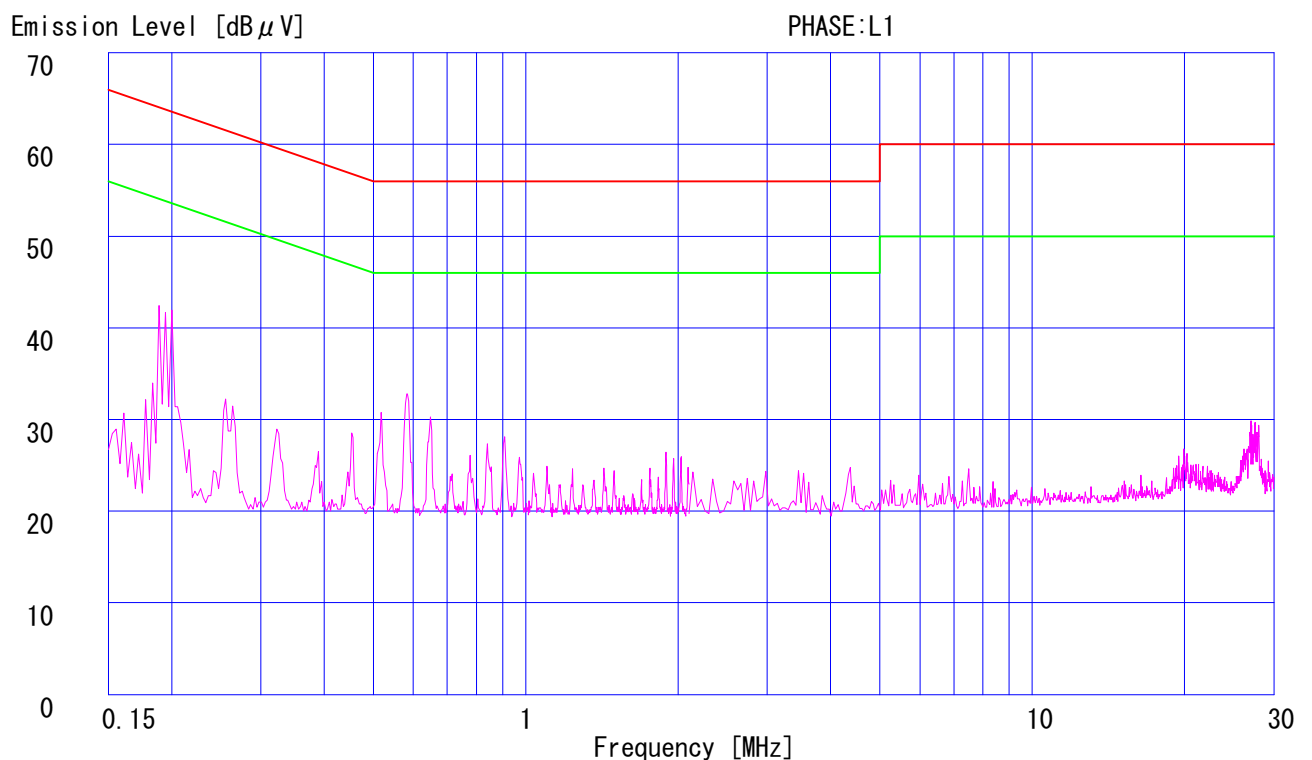
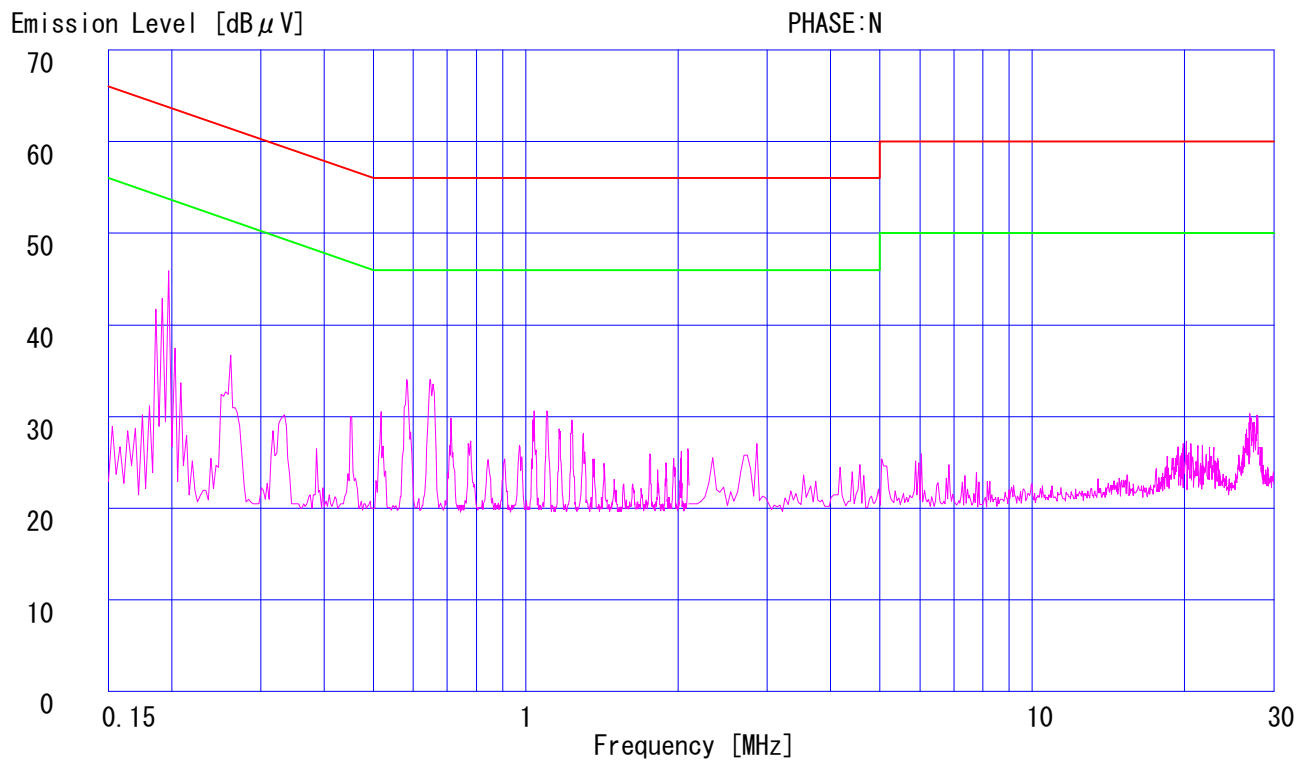
UL Japan, Inc.

YAMAKITA No.1 SHIELD ROOM

Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
Kind of Equipment : Photo Printer
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Serial No. : 004
Power : AC120V/60Hz
Mode : Transmitting:2402MHz (DH5)
Remarks : -
Date : 1/25/2008
Phase : Single Phase
Temperature : 23 °C
Humidity : 22 %
Regulation 1 : FCC Part15B CLASS B (CISPR Pub. 22)
Regulation 2 : None

Engineer : Yasumasa Owaki



DATA OF CONDUCTION TEST CHART

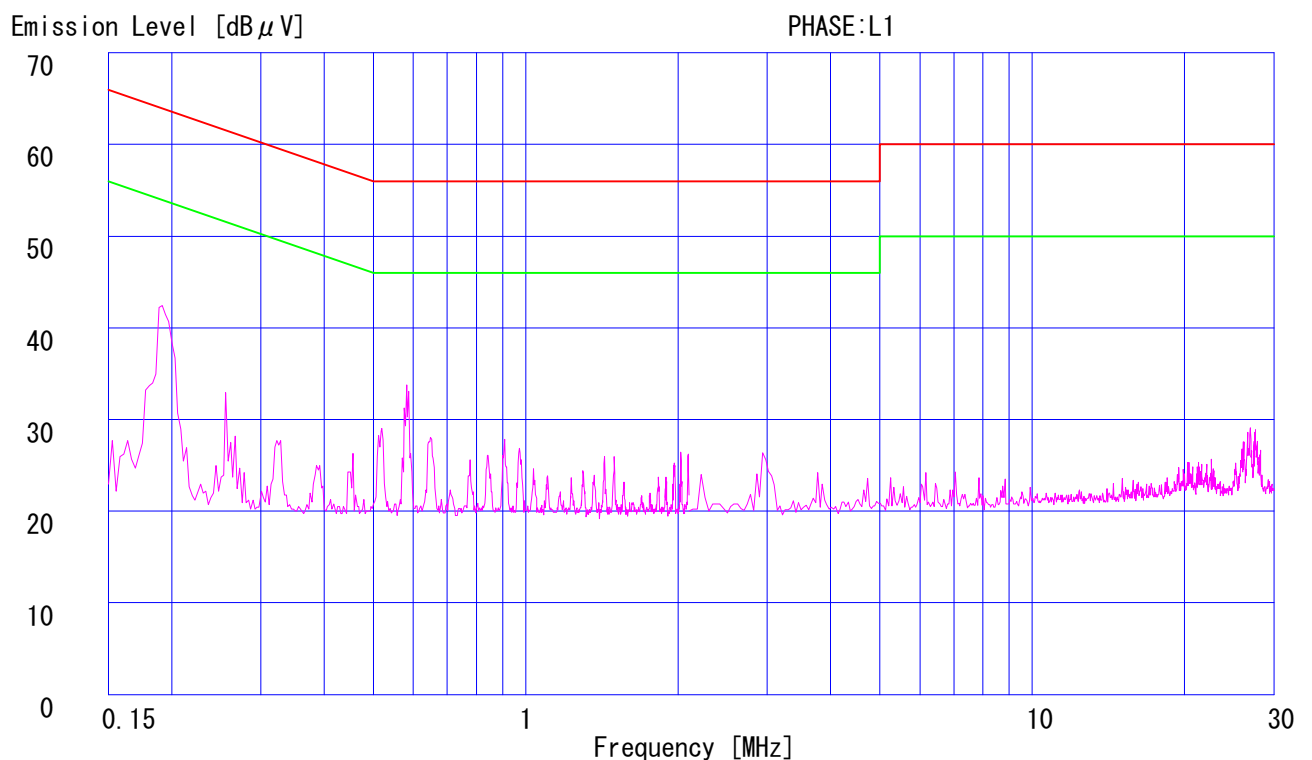
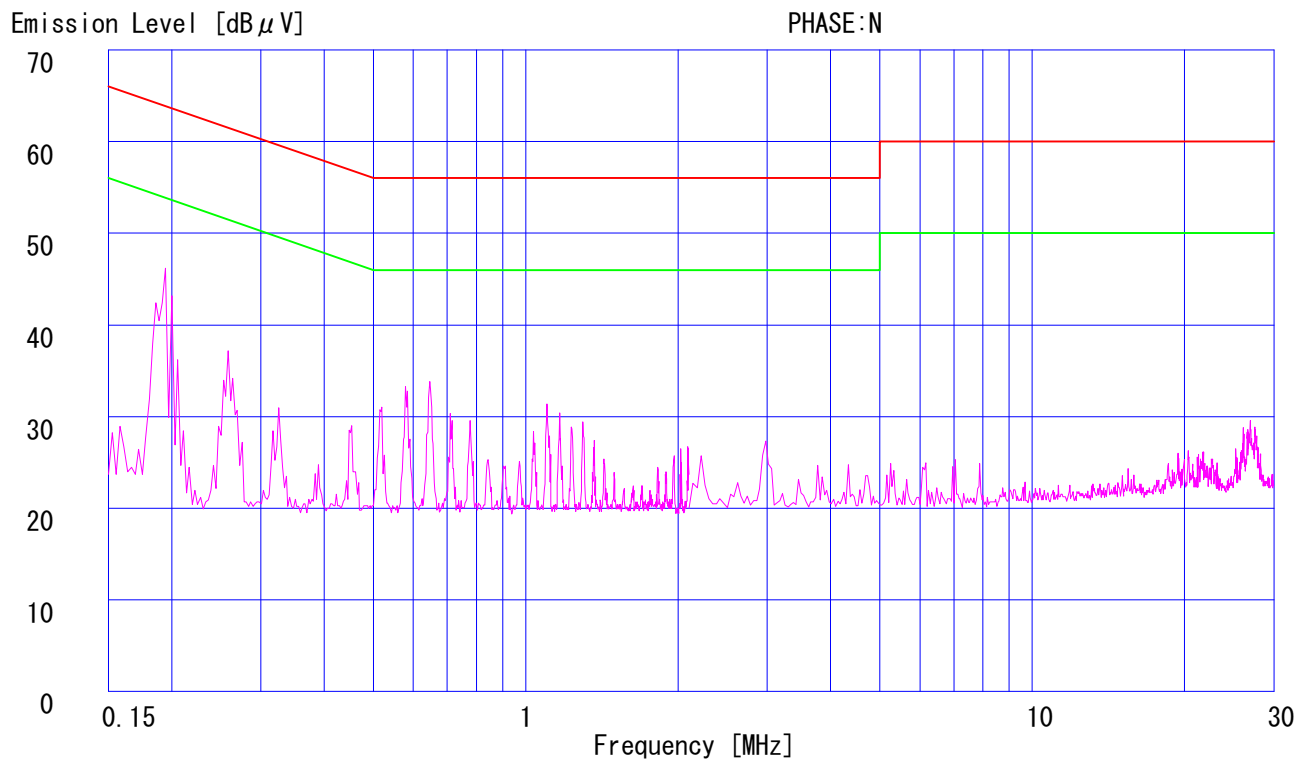
UL Japan, Inc.

YAMAKITA No.1 SHIELD ROOM

Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
Kind of Equipment : Photo Printer
Model No. : CZA-10011B
Serial No. : 004
Power : AC120V/60Hz
Mode : Transmitting:2441MHz (DH5)
Remarks : -
Date : 1/25/2008
Phase : Single Phase
Temperature : 23 °C
Humidity : 22 %
Regulation 1 : FCC Part15B CLASS B (CISPR Pub. 22)
Regulation 2 : None

Engineer : Yasumasa Owaki



DATA OF CONDUCTION TEST CHART

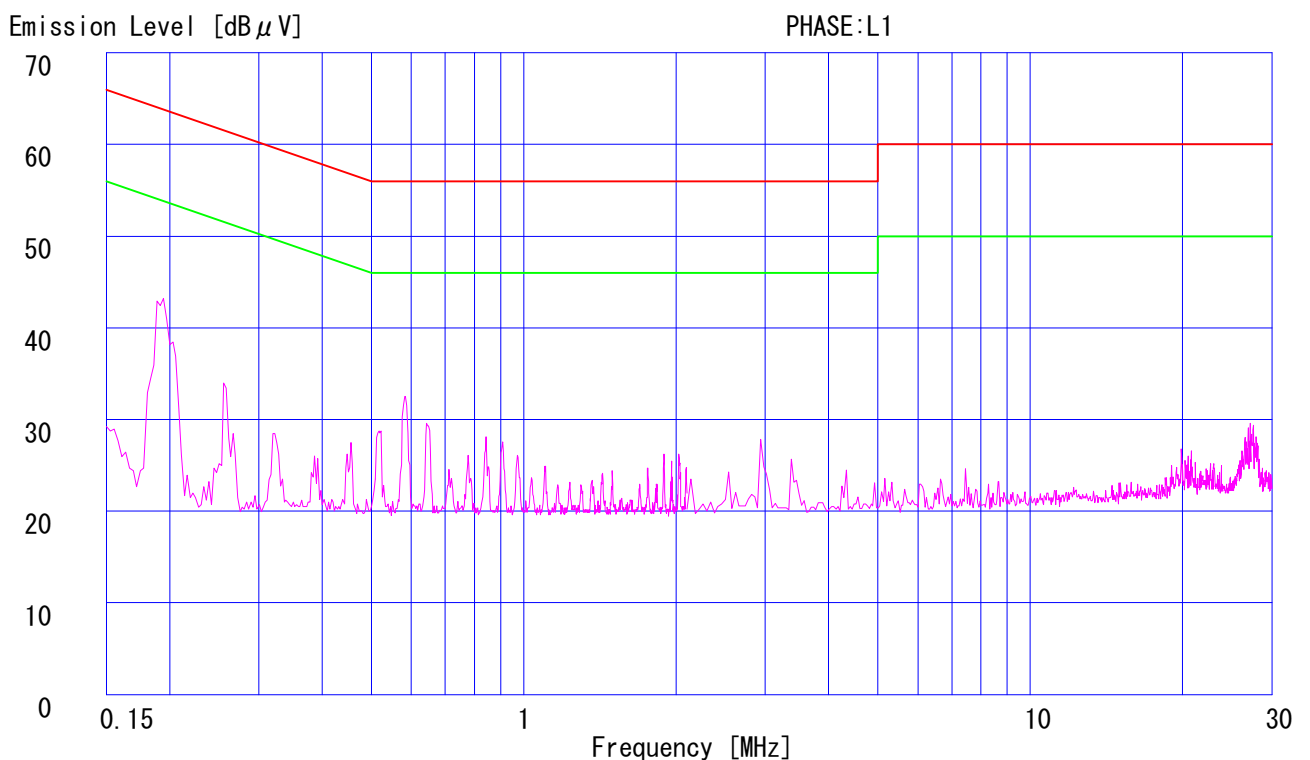
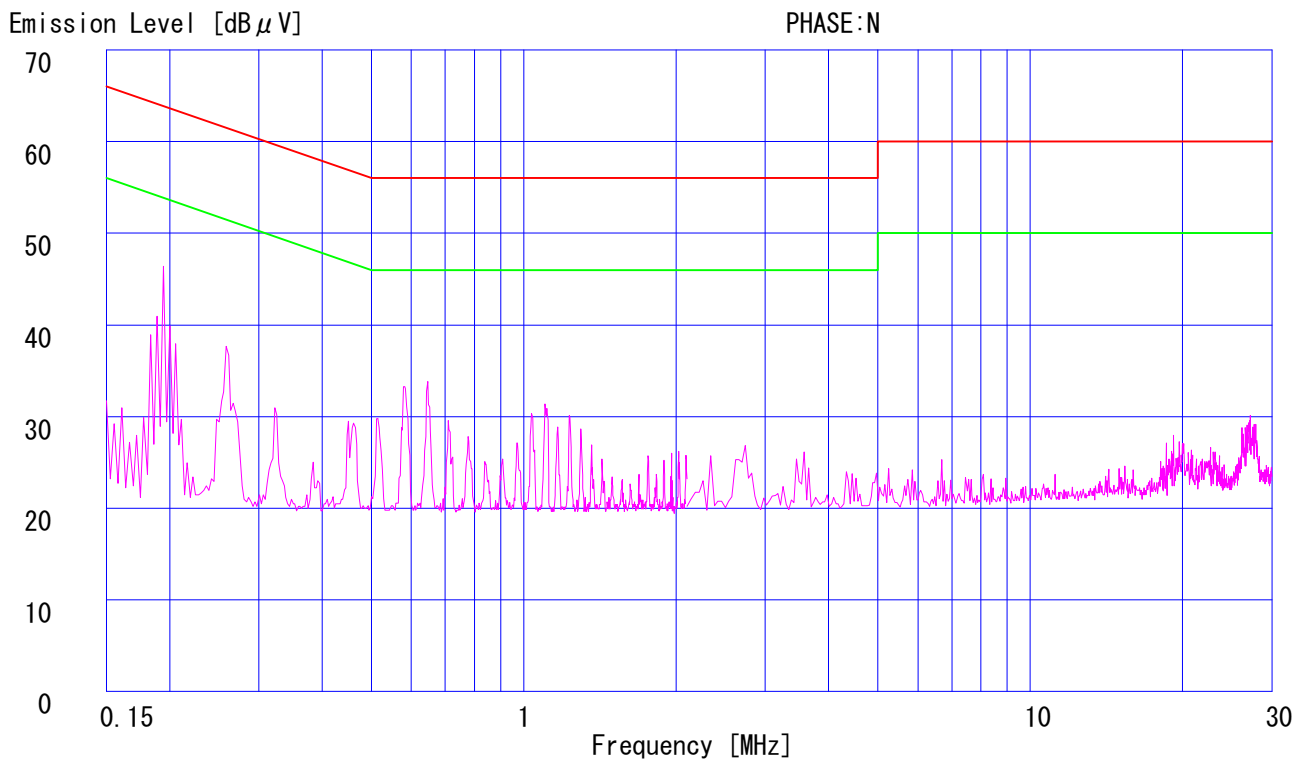
UL Japan, Inc.

YAMAKITA No.1 SHIELD ROOM

Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
Kind of Equipment : Photo Printer
Model No. : CZA-10011B
Serial No. : 004
Power : AC120V/60Hz
Mode : Transmitting:2480MHz (DH5)
Remarks : -
Date : 1/25/2008
Phase : Single Phase
Temperature : 23 °C
Humidity : 22 %
Regulation 1 : FCC Part15B CLASS B (CISPR Pub. 22)
Regulation 2 : None

Engineer : Yasumasa Owaki



DATA OF CONDUCTION TEST

UL Japan, Inc.
YAMAKITA No.1 SHIELD ROOM
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
Kind of Equipment : Photo Printer
Model No. : CZA-10011B
Serial No. : 004
Power : AC120V/60Hz
Mode : Transmitting:2402MHz (3DH5)
Remarks : -
Date : 1/25/2008
Phase : Single Phase
Temperature : 23 °C Engineer : Yasumasa Owaki
Humidity : 22 %
Regulation : FCC Part15B CLASS B(CISPR Pub. 22)

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.1980	45.9	-	43.3	-	0.1	0.1	0.0	46.1	-	63.7	53.7	17.6	-
2.	0.2637	36.8	-	32.8	-	0.1	0.1	0.0	37.0	-	61.3	51.3	24.3	-
3.	0.5927	32.3	-	31.3	-	0.1	0.2	0.0	32.6	-	56.0	46.0	23.4	-
4.	0.6588	31.5	-	29.0	-	0.1	0.2	0.0	31.8	-	56.0	46.0	24.2	-
5.	1.0540	29.6	-	20.3	-	0.1	0.2	0.0	29.9	-	56.0	46.0	26.1	-
6.	1.1201	29.3	-	21.0	-	0.1	0.2	0.0	29.6	-	56.0	46.0	26.4	-

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

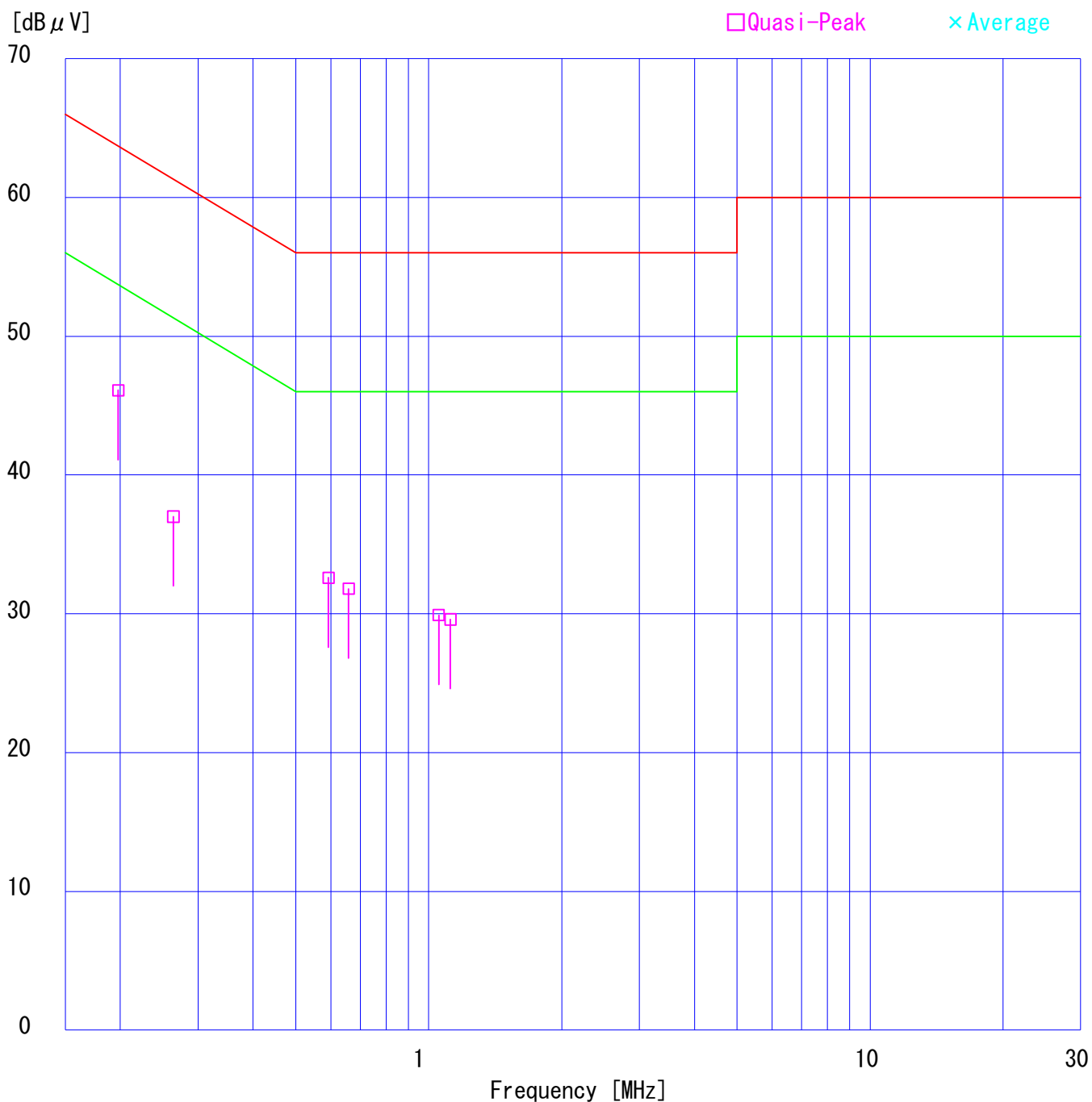
■ LISN:KLS-02 (NSLK8127) ■ COAXIAL CABLE:KCC-14/15/16/18
■ PULSE LIMITTER:KPL-01 (PL01) ■ EMI RECEIVER:KTR-02 (ESCS30)

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Serial No. : 004
Power : AC120V/60Hz
Mode : Transmitting:2402MHz (3DH5)
Remarks : -
Date : 1/25/2008
Phase : Single Phase
Temperature : 23 °C
Humidity : 22 %
Regulation : FCC Part15B CLASS B (CISPR Pub. 22)

Engineer : Yasumasa Owaki



DATA OF CONDUCTION TEST CHART

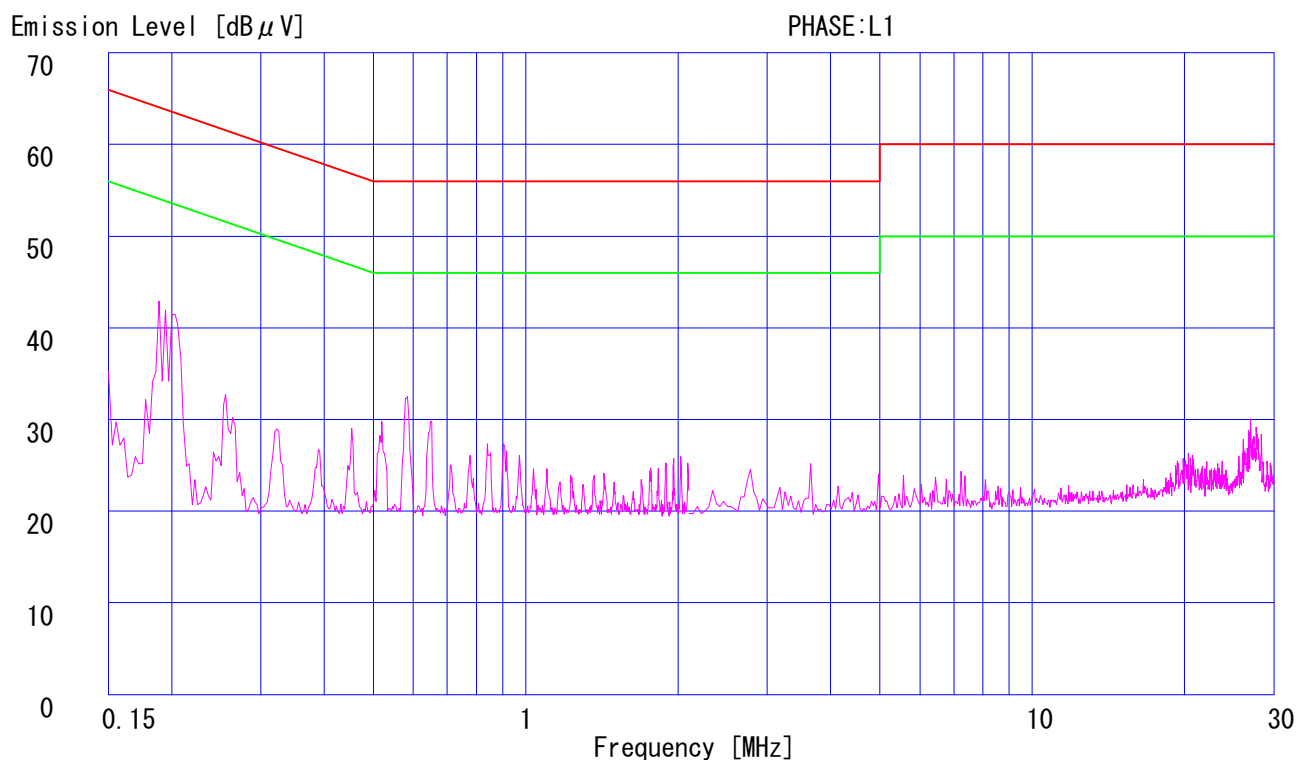
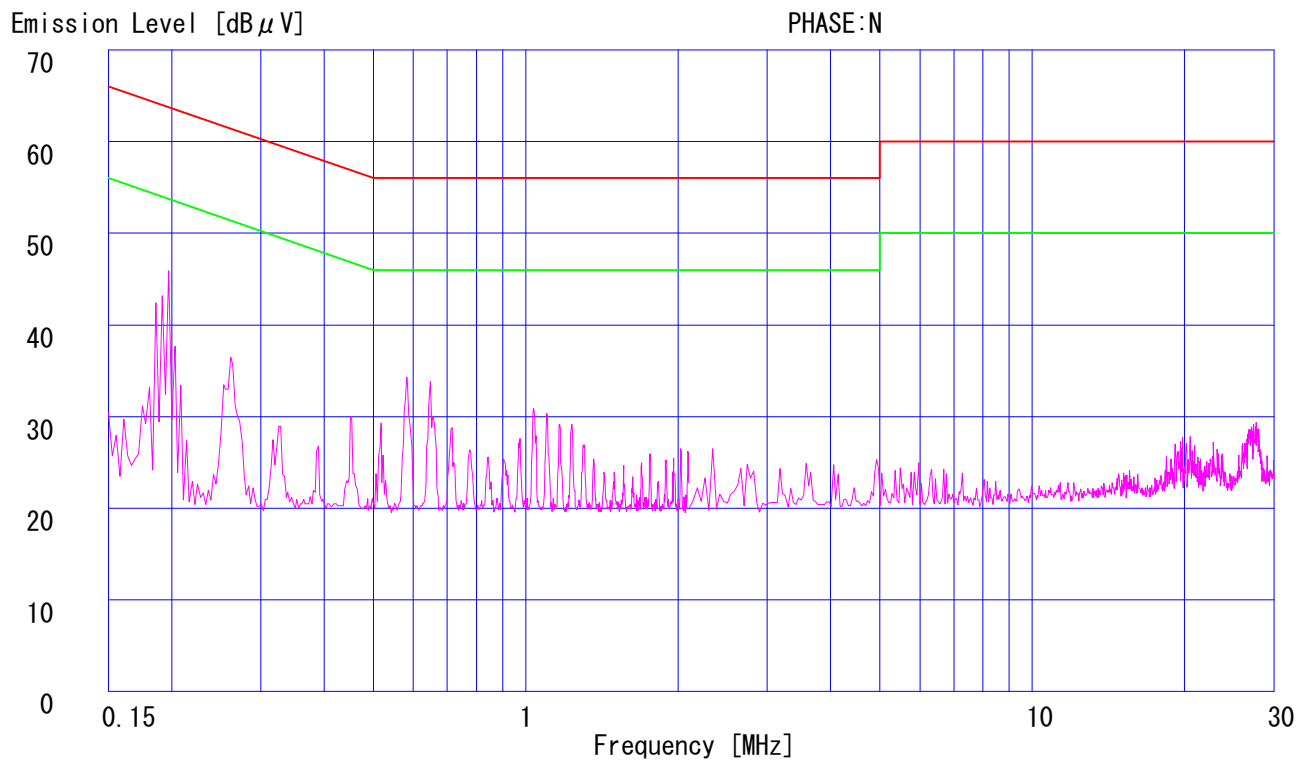
UL Japan, Inc.

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Kind of Equipment : Photo Printer
Model No. : CZA-10011B
Serial No. : 004
Power : AC120V/60Hz
Mode : Transmitting:2402MHz (3DH5)
Remarks : -
Date : 1/25/2008
Phase : Single Phase
Temperature : 23 °C
Humidity : 22 %
Regulation 1 : FCC Part15B CLASS B (CISPR Pub. 22)
Regulation 2 : None

Engineer : Yasumasa Owaki



DATA OF CONDUCTION TEST CHART

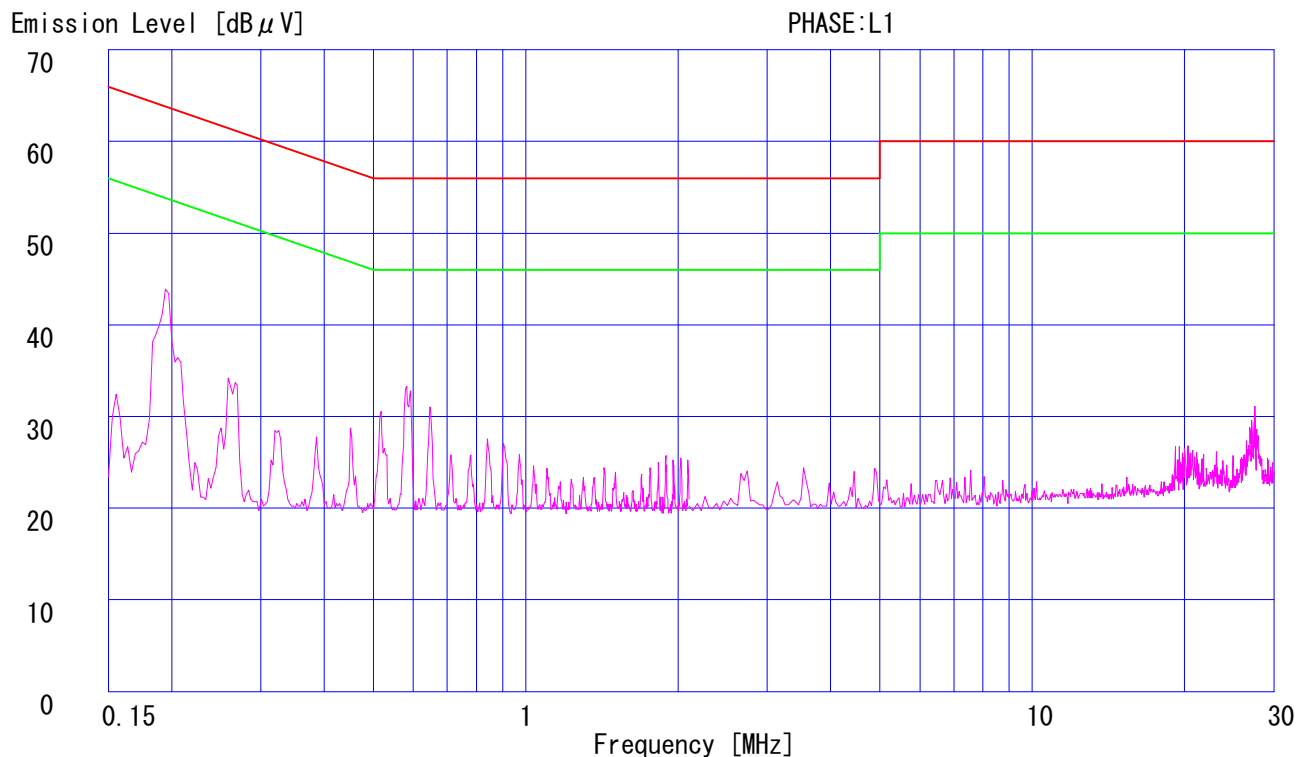
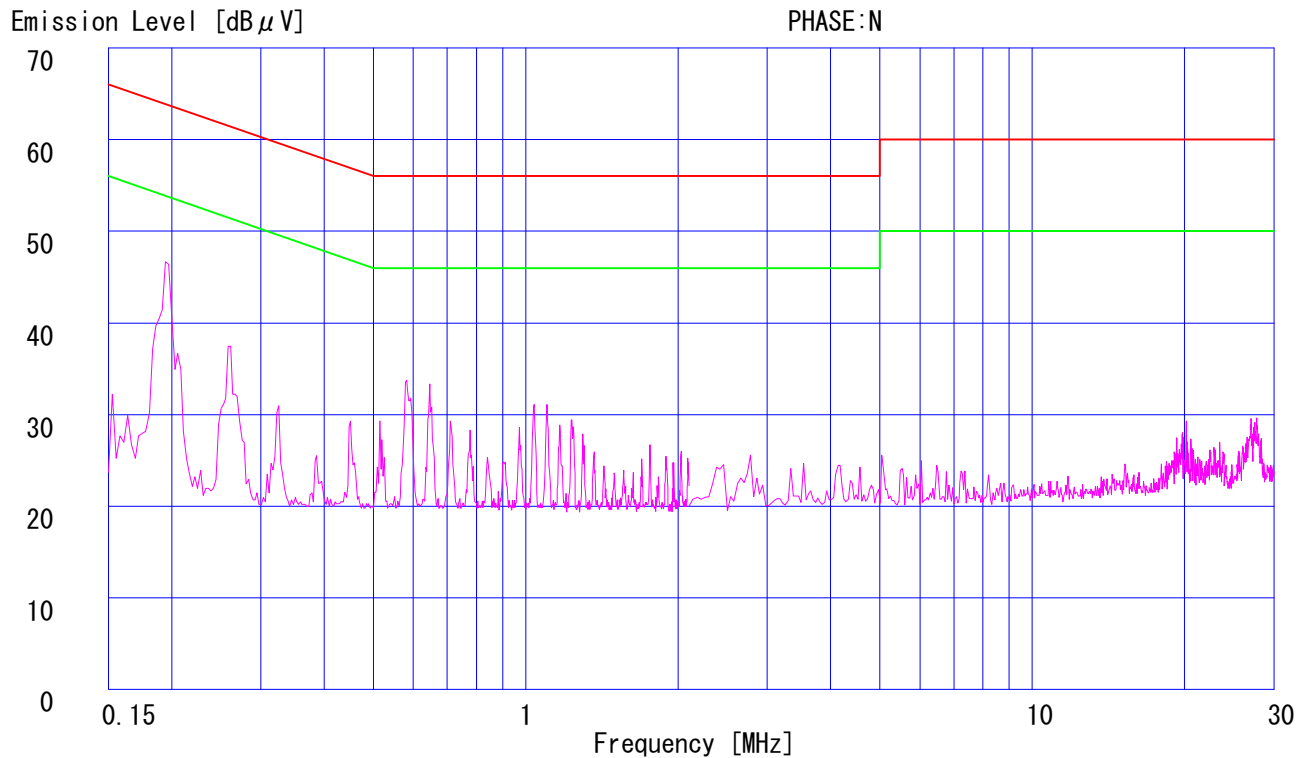
UL Japan, Inc.

YAMAKITA No.1 SHIELD ROOM

Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
Kind of Equipment : Photo Printer
Model No. : CZA-10011B
Serial No. : 004
Power : AC120V/60Hz
Mode : Transmitting:2441MHz (3DH5)
Remarks : -
Date : 1/25/2008
Phase : Single Phase
Temperature : 23 °C
Humidity : 22 %
Regulation 1 : FCC Part15B CLASS B (CISPR Pub. 22)
Regulation 2 : None

Engineer : Yasumasa Owaki



DATA OF CONDUCTION TEST CHART

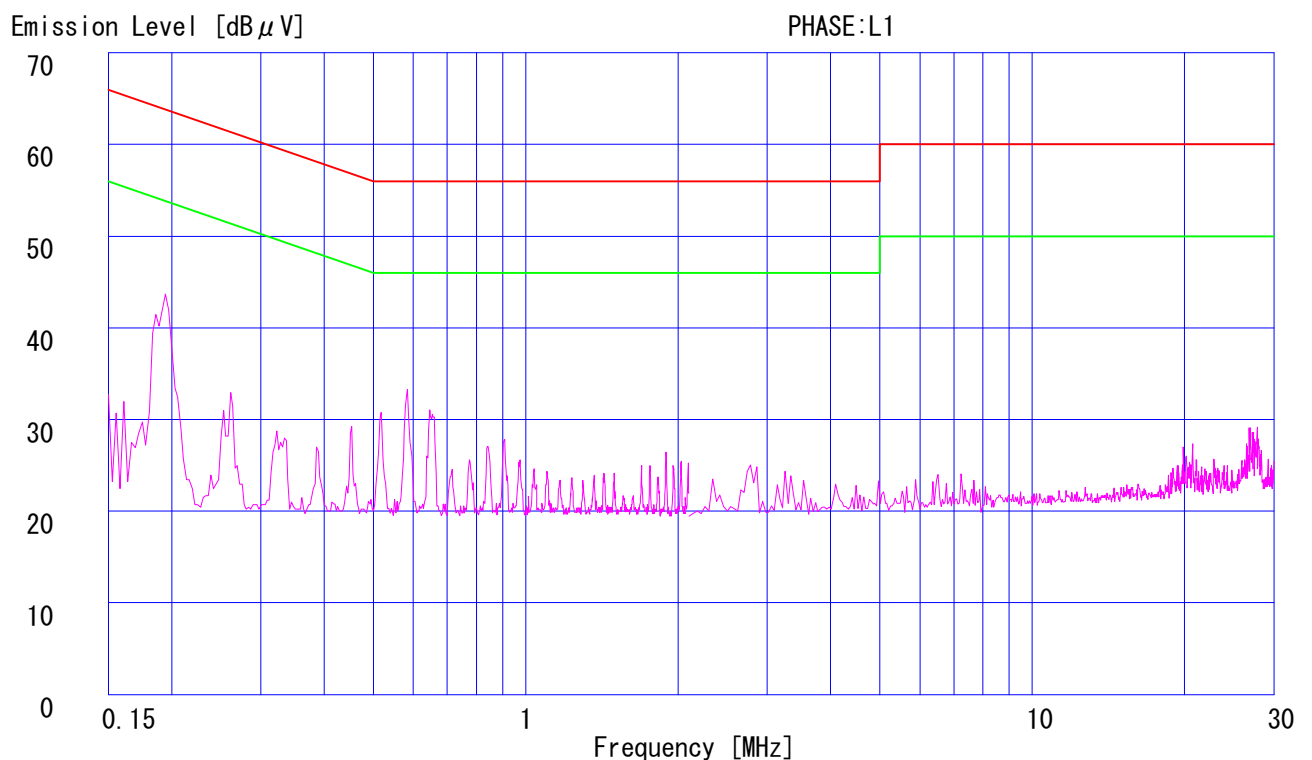
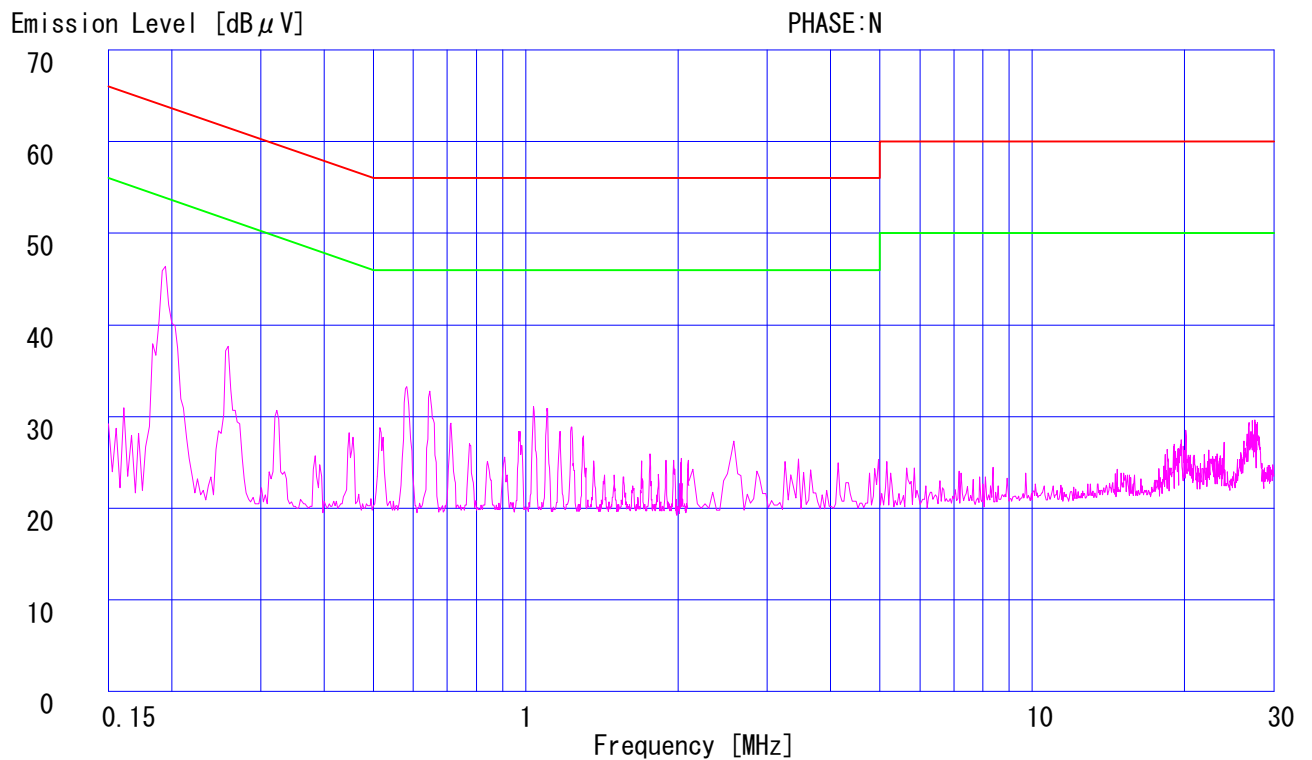
UL Japan, Inc.

YAMAKITA No.1 SHIELD ROOM

Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
Kind of Equipment : Photo Printer
Model No. : CZA-10011B
Serial No. : 004
Power : AC120V/60Hz
Mode : Transmitting:2480MHz (3DH5)
Remarks : -
Date : 1/25/2008
Phase : Single Phase
Temperature : 23 °C
Humidity : 22 %
Regulation 1 : FCC Part15B CLASS B (CISPR Pub. 22)
Regulation 2 : None

Engineer : Yasumasa Owaki



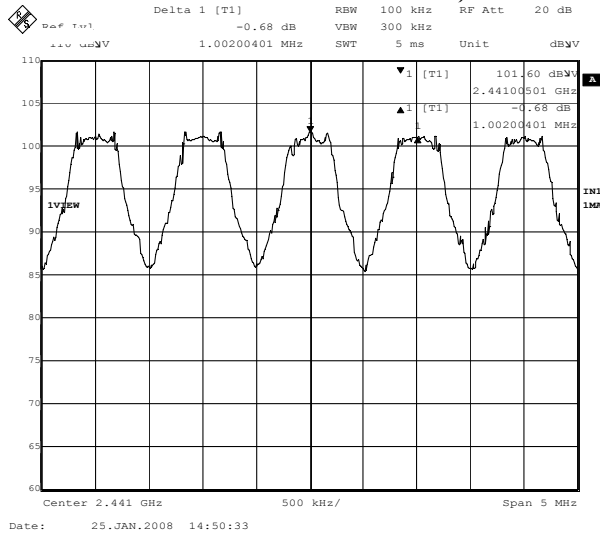
Channel Separation: FCC 15.247(a)(1)

COMPANY : ALPS ELECTRIC CO., LTD.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003
POWER : AC120V/60Hz

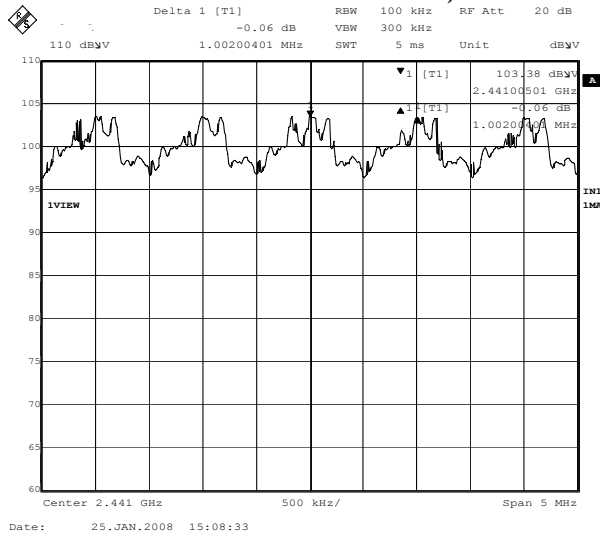
UL Japan, Inc. Yamakita No.1 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(a)(1)
DATE : 2008.01.25
TEMP./HUMI : 22deg.C./32%
TEST MODE : Transmitting
ENGINEER : Makoto Hosaka

Limit: $\geq 25\text{kHz}$ or $2/3 * 20\text{dB Bandwidth}$ (Power : No greater than 125mW)

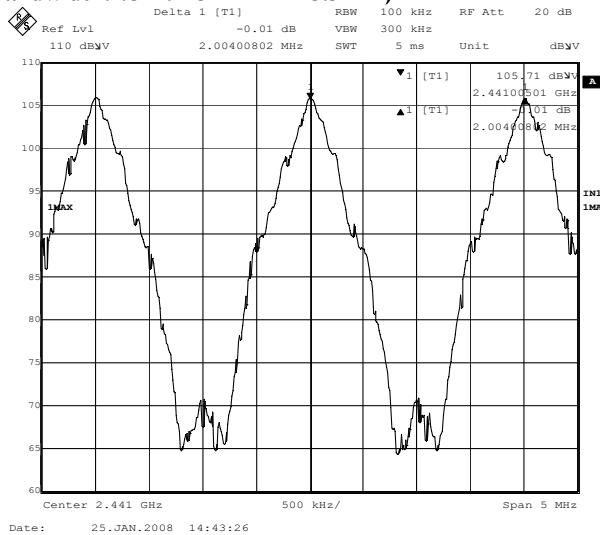
1. Hopping, DH5: 1.002MHz ($2/3 * 20\text{dB Bandwidth} : 2/3 * 1.160\text{MHz} = 773.3\text{kHz}$)



2. Hopping, 3DH5: 1.002MHz ($2/3 * 20\text{dB Bandwidth} : 2/3 * 1.407\text{Hz} = 938.0\text{kHz}$)



3. Inquiry: 2.004MHz ($2/3 * 20\text{dB Bandwidth} : 2/3 * 1.118\text{MHz} = 745.3\text{kHz}$)



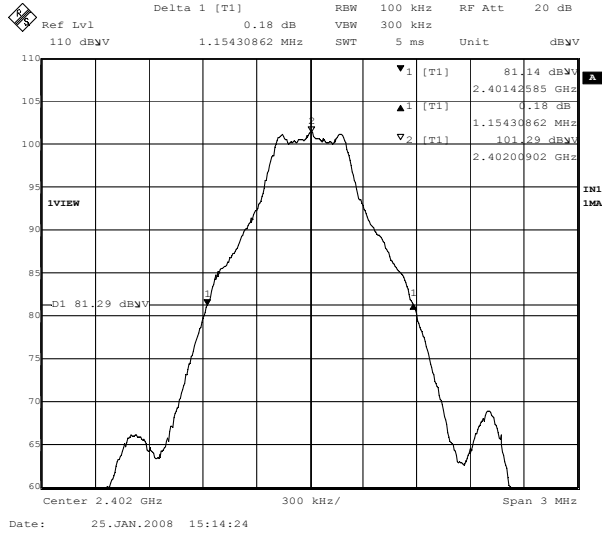
20dB Bandwidth: FCC 15.247(a)(1)

COMPANY : ALPS ELECTRIC CO., LTD.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003
POWER : AC120V/60Hz

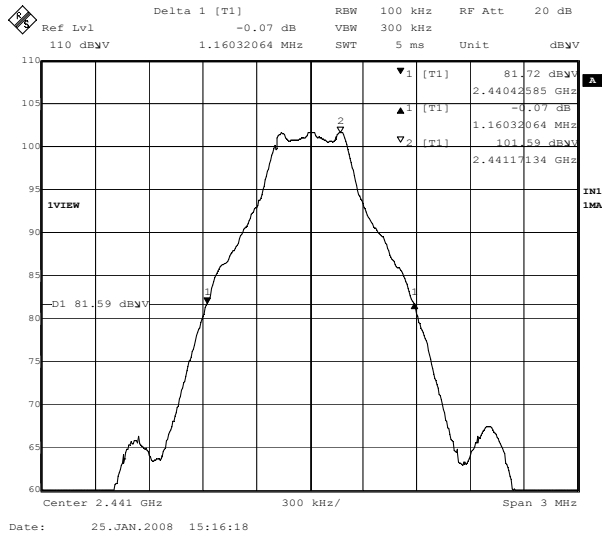
UL Japan, Inc. Yamakita No.1 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(a)(1)
DATE : 2008.01.25
TEMP./HUMI : 22deg.C./32%
TEST MODE : Transmitting
ENGINEER : Makoto Hosaka

[Hopping off, DH5]

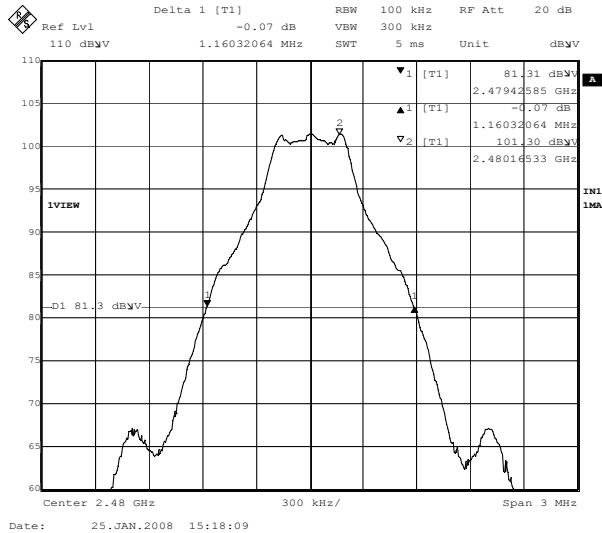
1. ch : 2402MHz/20dB Bandwidth:1.154MHz



2. ch : 2441MHz/20dB Bandwidth:1.160MHz



3. ch : 2480MHz/20dB Bandwidth:1.160MHz



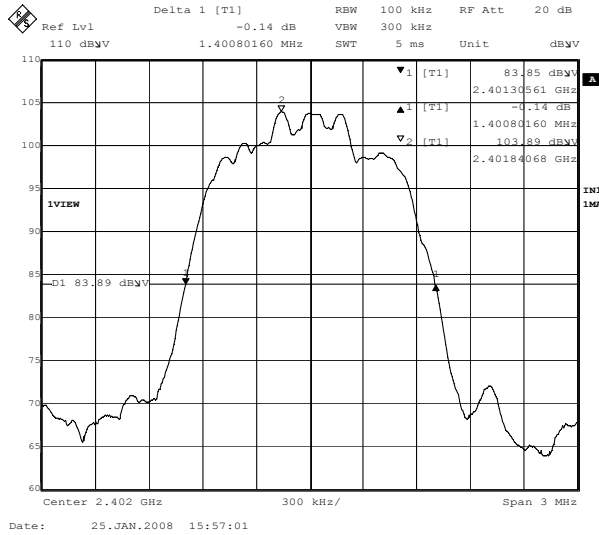
20dB Bandwidth: FCC 15.247(a)(1)

COMPANY : ALPS ELECTRIC CO., LTD.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003
POWER : AC120V/60Hz

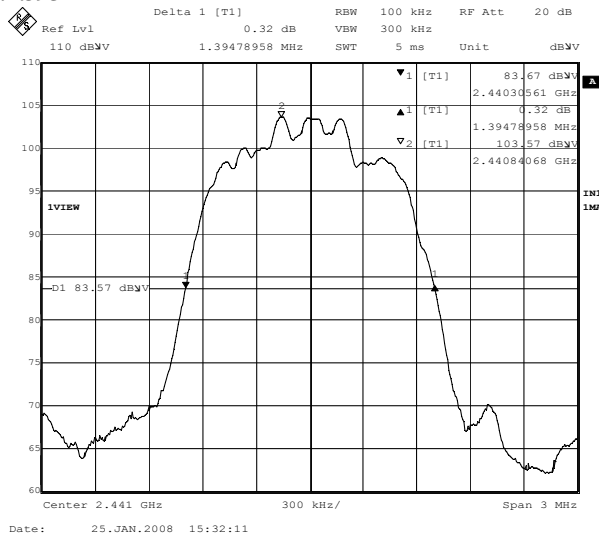
UL Japan, Inc. Yamakita No.1 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(a)(1)
DATE : 2008.01.25
TEMP./HUMI : 22deg.C./32%
TEST MODE : Transmitting
ENGINEER : Makoto Hosaka

[Hopping off, 3DH5]

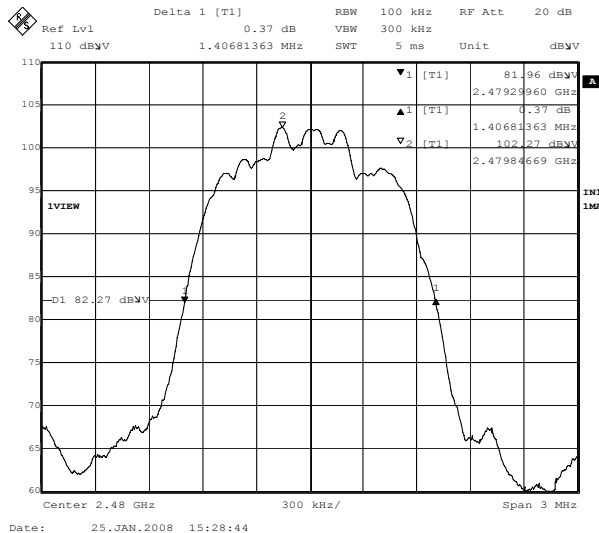
4. ch : 2402MHz/20dB Bandwidth:1.401MHz



5. ch : 2441MHz/20dB Bandwidth:1.395MHz



6. ch : 2480MHz/20dB Bandwidth:1.407MHz



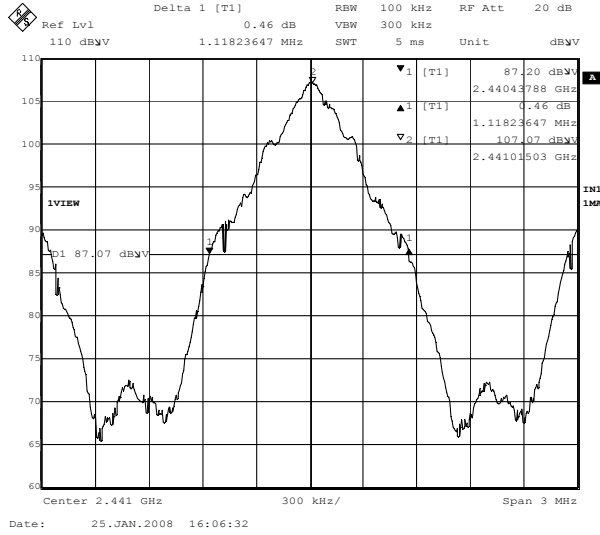
20dB Bandwidth: FCC 15.247(a)(1)

COMPANY : ALPS ELECTRIC CO., LTD.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003
 POWER : AC120V/60Hz

UL Japan, Inc. Yamakita No.1 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(a)(1)
 DATE : 2008.01.25
 TEMP./HUMI : 22deg.C./32%
 TEST MODE : Transmitting
 ENGINEER : Makoto Hosaka

[Inquiry]

7. Inaquiry/20dB Bandwidth:1.118MHz



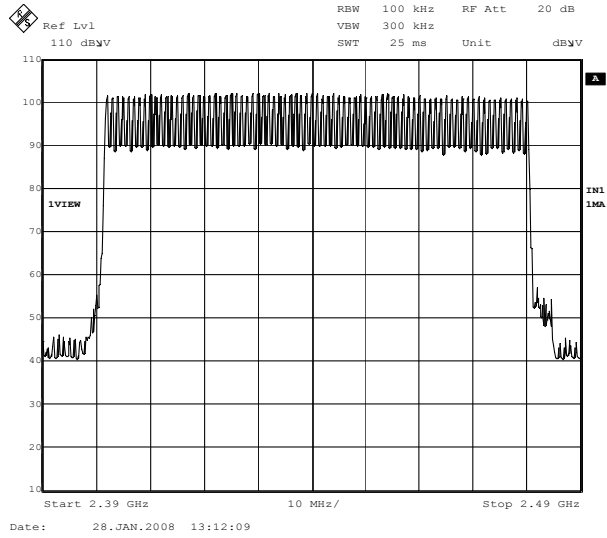
Channel Utilization: FCC 15.247(a)(1)(iii)

COMPANY : Alps Electric Co., Ltd.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003

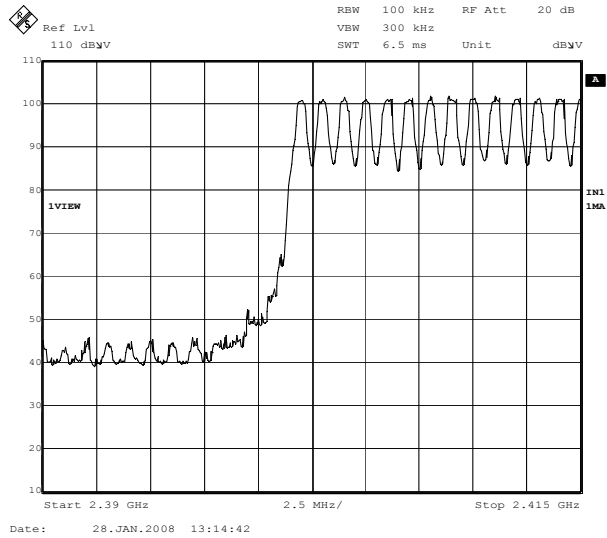
UL Japan, Inc. Yamakita No.4 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
DATE : 2008.01.28
TEMP./HUMI : 22deg.C./40%
TEST MODE : Transmitting
ENGINEER : Fumiaki Matsuo

Hopping, DH5: 79ch

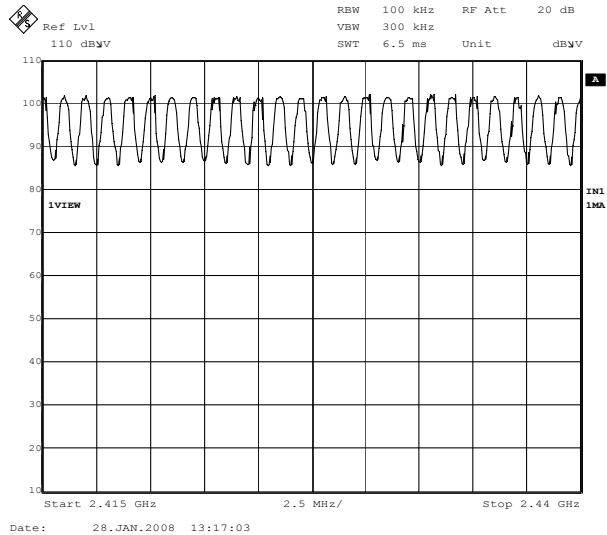
1.



2.



3.



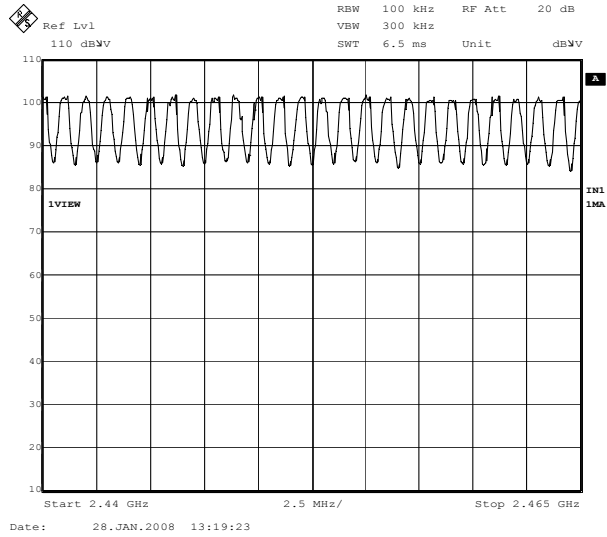
Channel Utilization: FCC 15.247(a)(1)(iii)

COMPANY : Alps Electric Co., Ltd.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003

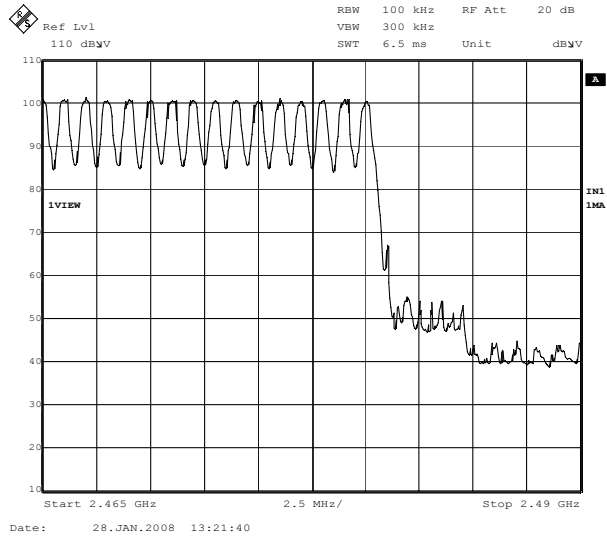
UL Japan, Inc. Yamakita No.4 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
DATE : 2008.01.28
TEMP./HUMI : 22deg.C./40%
TEST MODE : Transmitting
ENGINEER : Fumiaki Matsuo

POWER : AC120V/60Hz

4.



5.



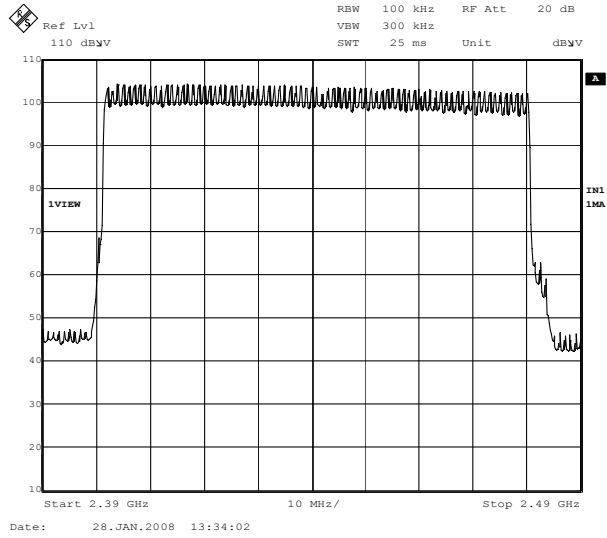
Channel Utilization: FCC 15.247(a)(1)(iii)

COMPANY : Alps Electric Co., Ltd.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003

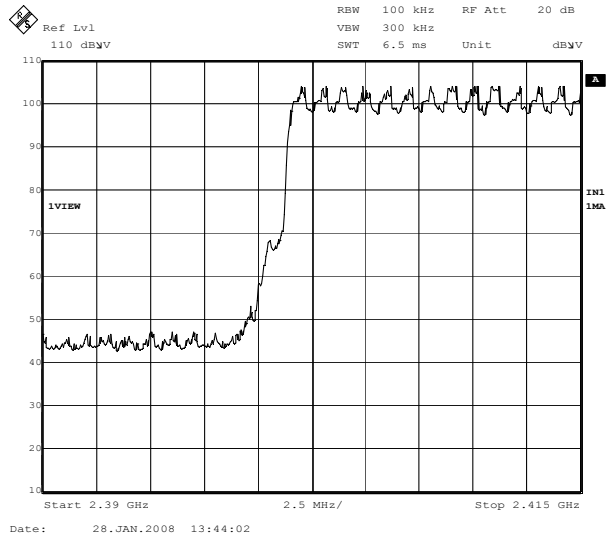
UL Japan, Inc. Yamakita No.4 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
DATE : 2008.01.28
TEMP./HUMI : 22deg.C./40%
TEST MODE : Transmitting
ENGINEER : Fumiaki Matsuo

Hopping, 3DH5: 79ch

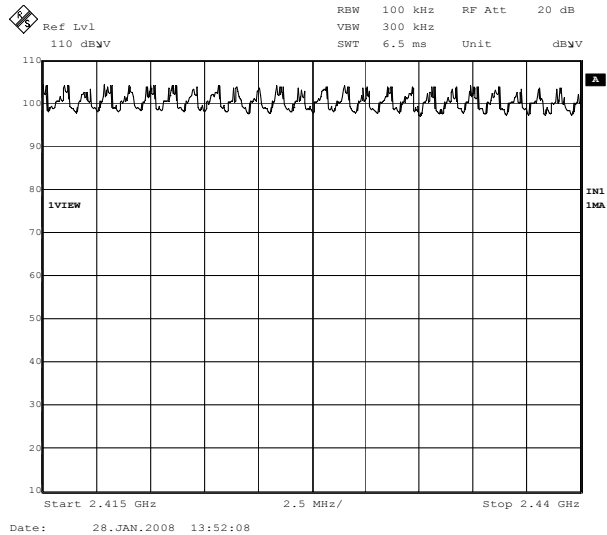
1.



2.



3.



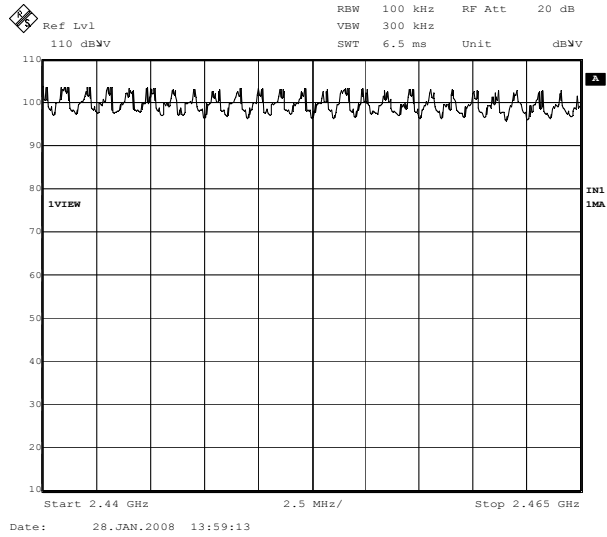
Channel Utilization: FCC 15.247(a)(1)(iii)

COMPANY : Alps Electric Co., Ltd.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003

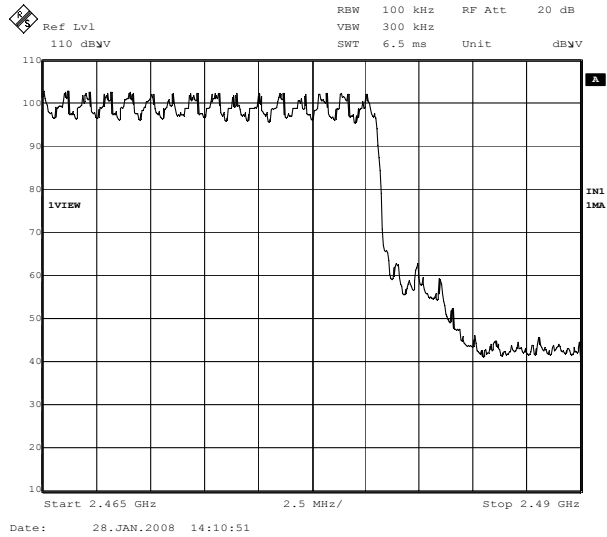
UL Japan, Inc. Yamakita No.4 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
DATE : 2008.01.28
TEMP./HUMI : 22deg.C./40%
TEST MODE : Transmitting
ENGINEER : Fumiaki Matsuo

POWER : AC120V/60Hz

4.



5.



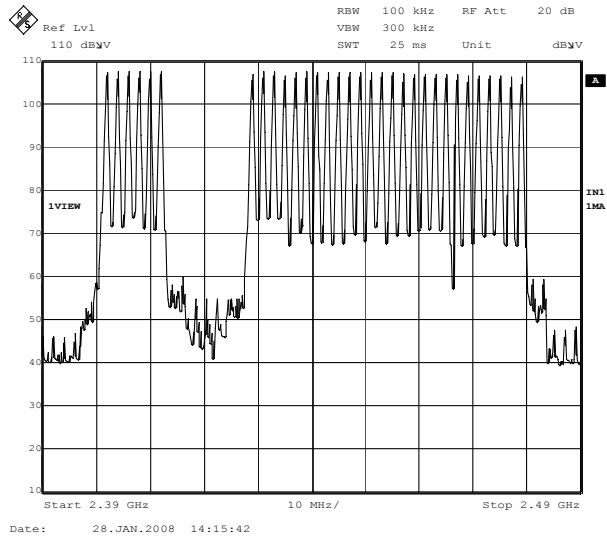
Channel Utilization: FCC 15.247(a)(1)(iii)

COMPANY : Alps Electric Co., Ltd.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003

UL Japan, Inc. Yamakita No.4 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
DATE : 2008.01.28
TEMP./HUMI : 22deg.C./40%
TEST MODE : Transmitting
ENGINEER : Fumiaki Matsuo

POWER : AC120V/60Hz

1. Inquiry: 32ch



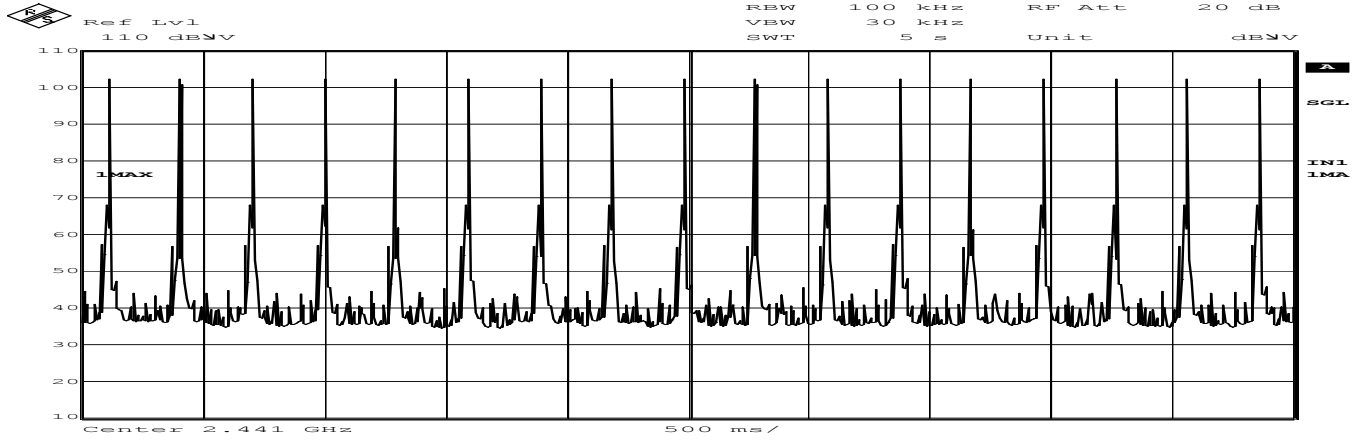
Dwell Time: FCC 15.247(a)(1)(iii)

COMPANY : ALPS ELECTRIC CO., LTD.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003
POWER : AC120V/60Hz

UL Japan, Inc. Yamakita No.1 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
DATE : 2008.01.25
TEMP./HUMI : 22deg.C./32%
TEST MODE : Transmitting
ENGINEER : Makoto Hosaka

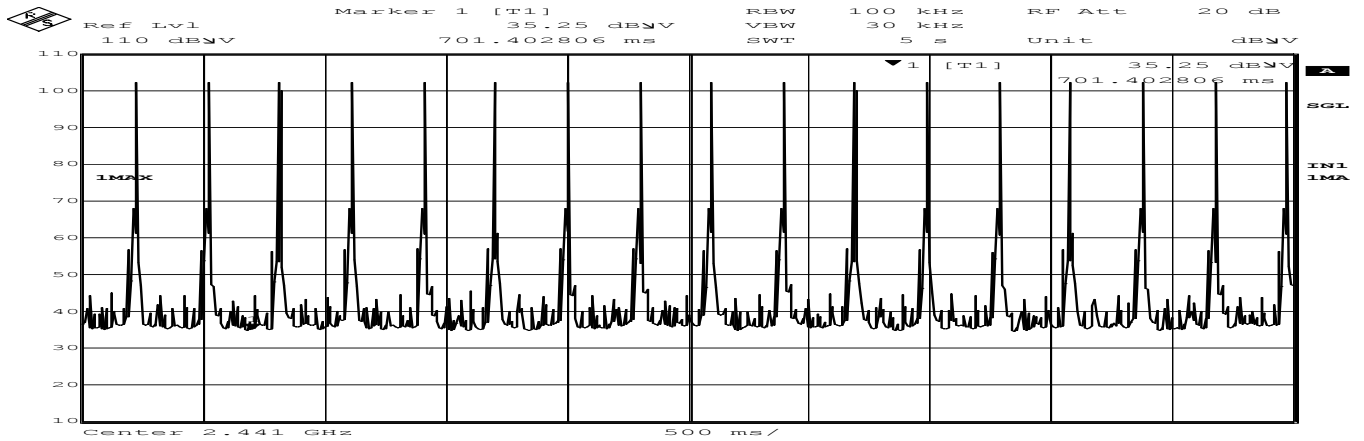
Hopping (DH1):

Count 1



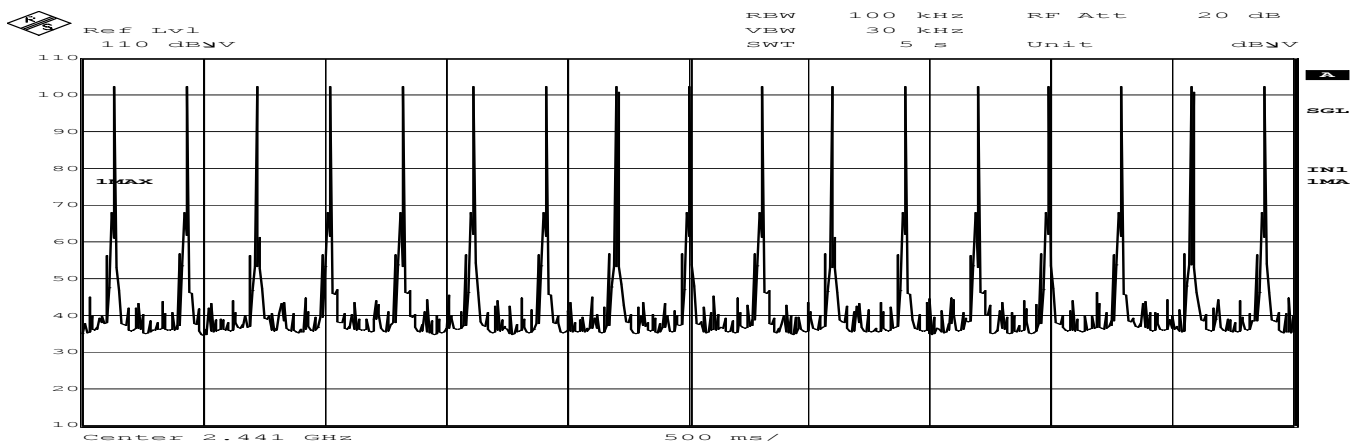
Date: 25.JAN.2008 10:49:58

Count 2



Date: 25.JAN.2008 10:50:37

Count 3



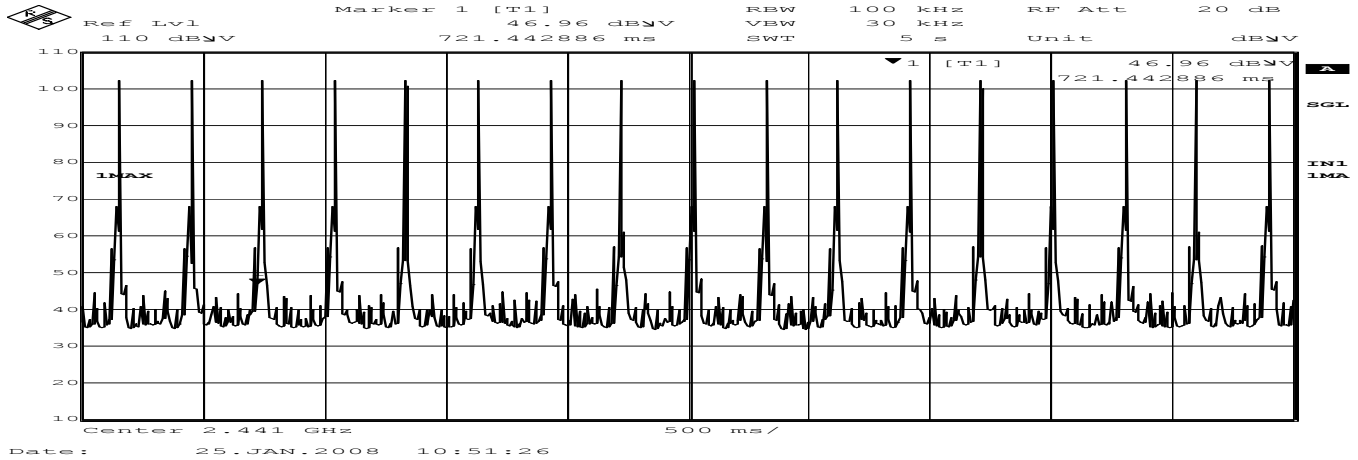
Date: 25.JAN.2008 10:51:01

Dwell Time: FCC 15.247(a)(1)(iii)

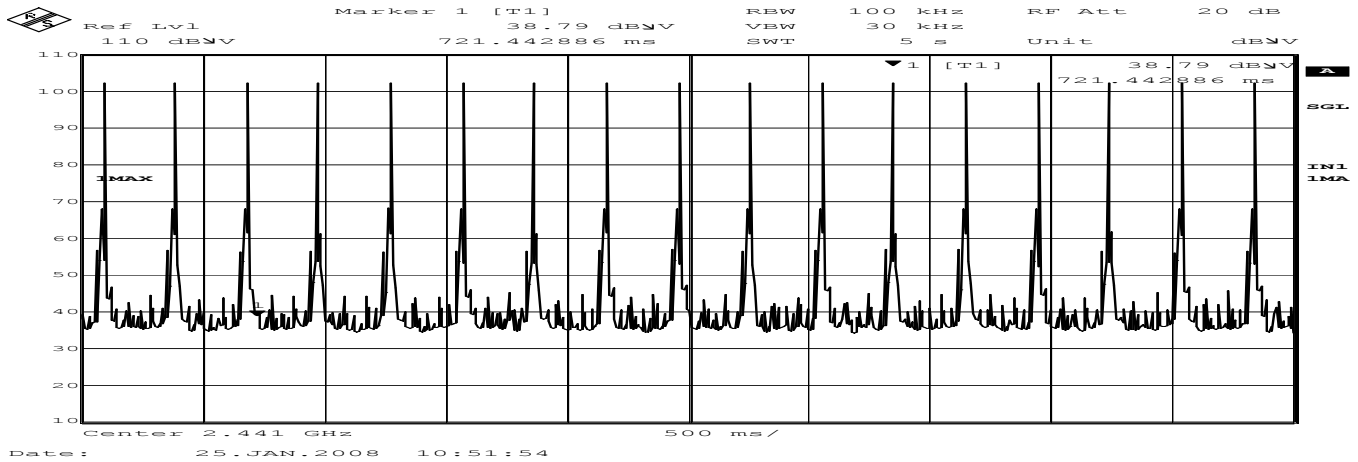
COMPANY : ALPS ELECTRIC CO., LTD.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003
 POWER : AC120V/60Hz

UL Japan, Inc. Yamakita No.1 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
 DATE : 2008.01.25
 TEMP./HUMI : 22deg.C./32%
 TEST MODE : Transmitting
 ENGINEER : Makoto Hosaka

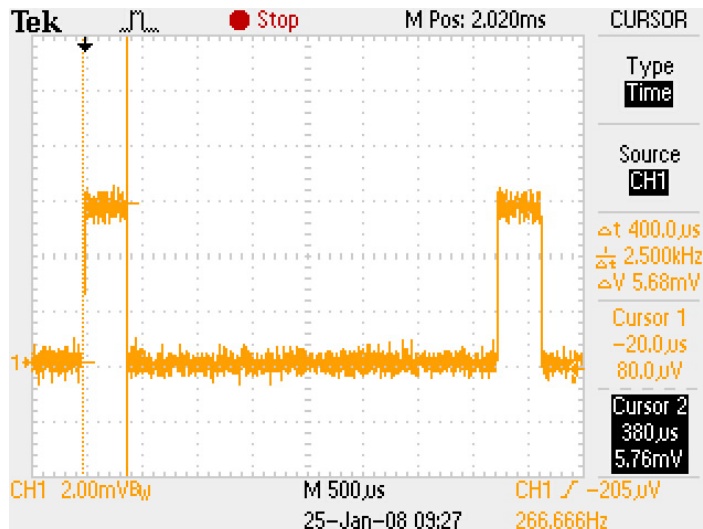
Count 4



Count 5



Duty cycle(Hopping DH1)



Average times of rising in 30 sec. of sweep = (17 + 17 + 17 + 17 + 17) / 5 = 17
 Average times of rising in 1 sec. = 17 / 5s = 3.4
 Average times of rising in 0.4x = 0.4 * 79ch * 3.4 = 107.44
 Dwell time = 107.44 * 0.400 = 42.98 [ms]
 Limit : Dwell Time < 0.4[s]

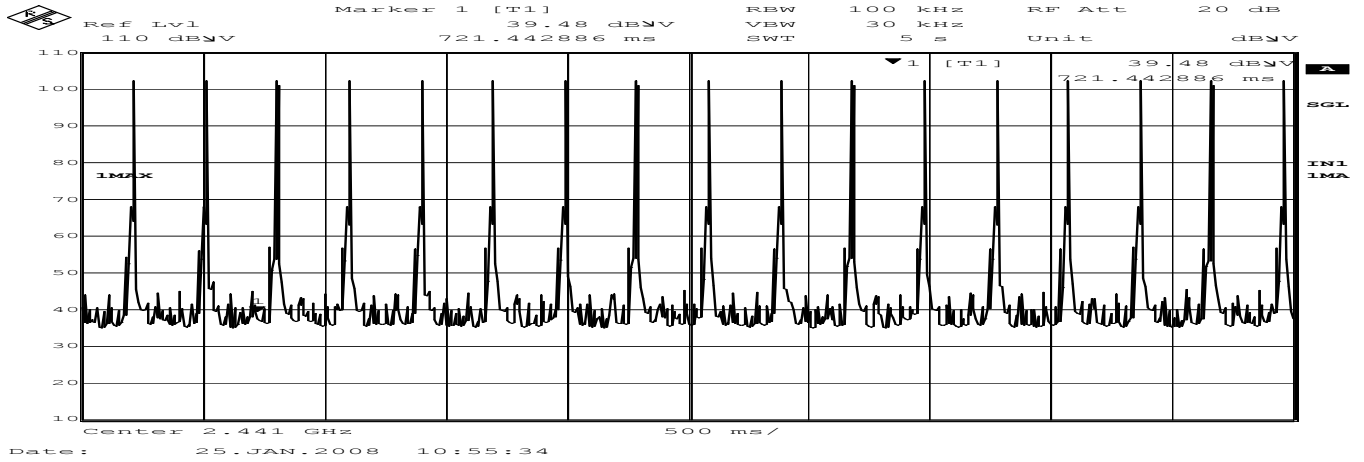
Dwell Time: FCC 15.247(a)(1)(iii)

COMPANY : ALPS ELECTRIC CO., LTD.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003
POWER : AC120V/60Hz

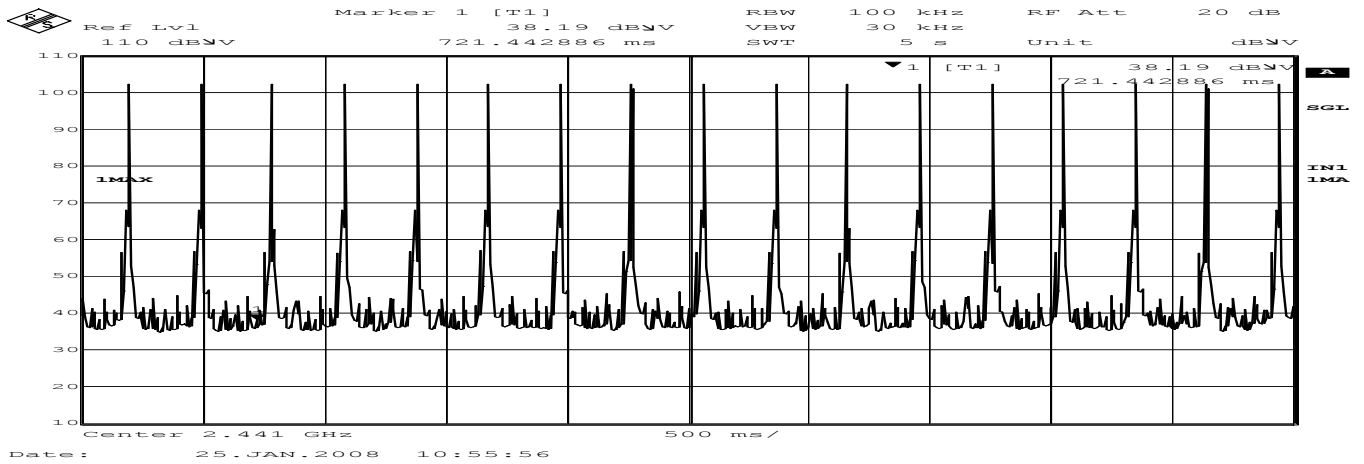
UL Japan, Inc. Yamakita No.1 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
DATE : 2008.01.25
TEMP./HUMI : 22deg.C./32%
TEST MODE : Transmitting
ENGINEER : Makoto Hosaka

Hopping (DH3):

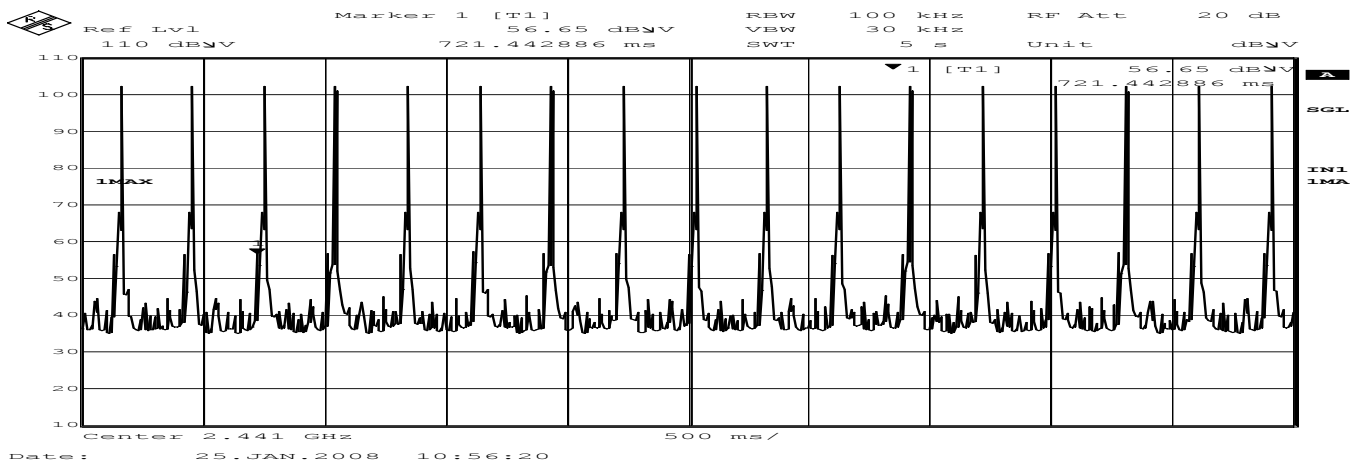
Count 1



Count 2



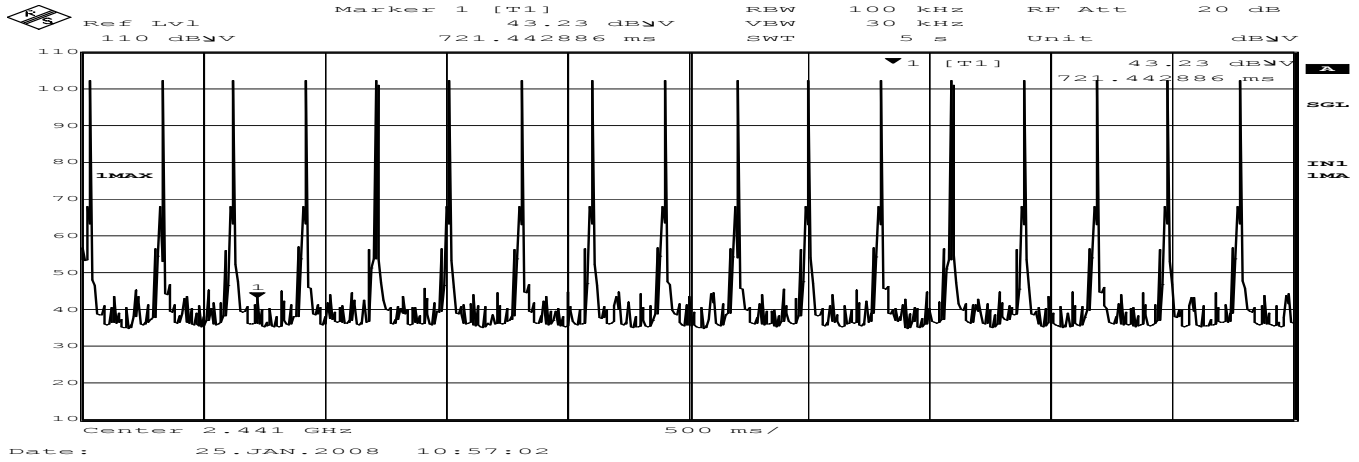
Count 3



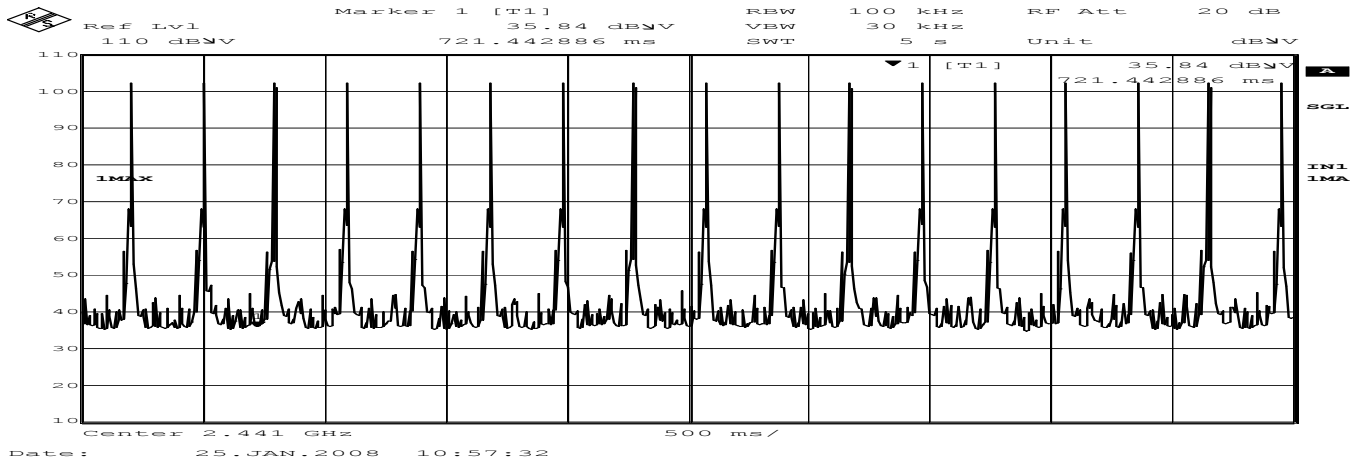
Dwell Time: FCC 15.247(a)(1)(iii)

COMPANY	: ALPS ELECTRIC CO., LTD.	UL Japan, Inc. Yamakita No.1 Shielded Room	
EQUIPMENT	: Photo Printer	REPORT NO	: 28EE0156-YK-01-B
MODEL NUMBER	: CZA-10011B	REGULATION	: Fcc Part15SubpartC 247(a)(1)(iii)
SERIAL NUMBER	: 003	DATE	: 2008.01.25
POWER	: AC120V/60Hz	TEMP./HUMI	: 22deg.C./32%
		TEST MODE	: Transmitting
		ENGINEER	: Makoto Hosaka

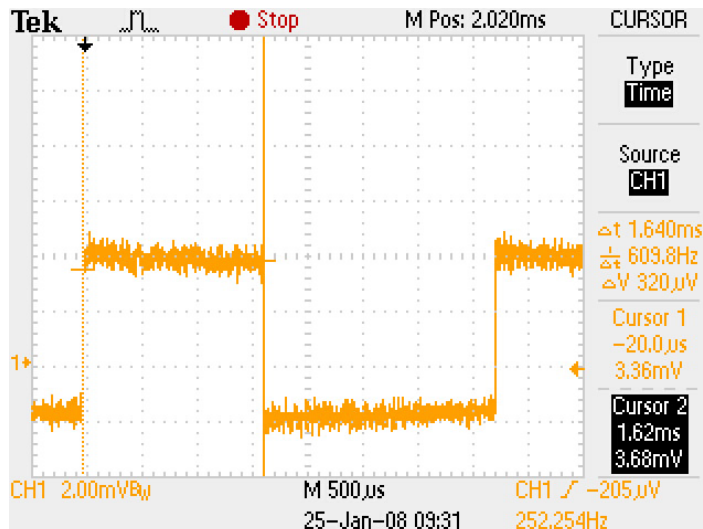
Count 4



Count 5



Duty cycle(Hopping DH3)



Average times of rising in 30 sec. of sweep = (17 + 17 + 17 + 17 + 17) / 5 = 17
 Average times of rising in 1 sec. = 17 / 5s = 3.4
 Average times of rising in 0.4x = 0.4 * 79ch * 3.4 = 107.44
 Dwell time = 107.44 * 1.640 = 176.20 [ms]
 Limit : Dwell Time < 0.4[s]

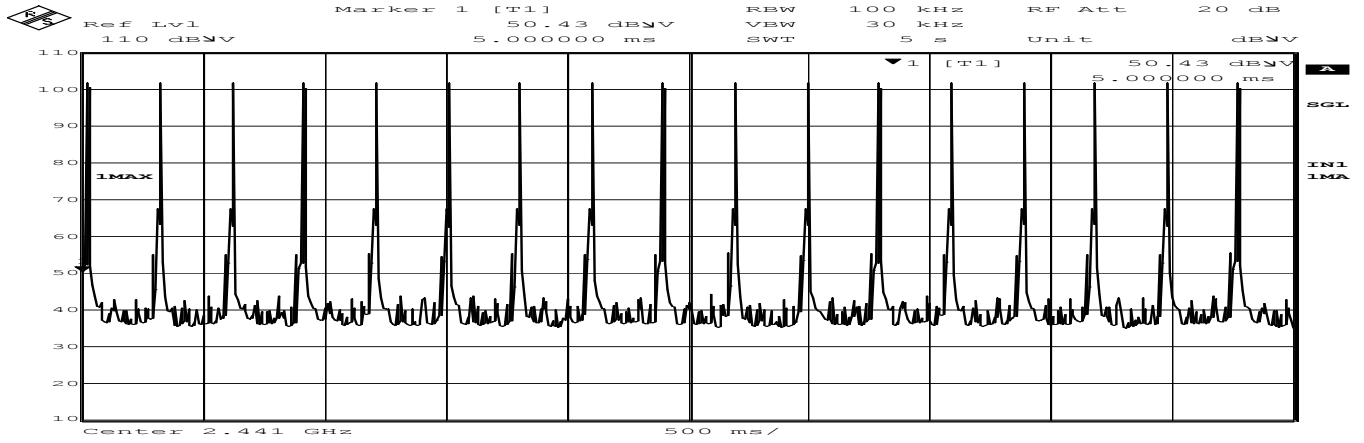
Dwell Time: FCC 15.247(a)(1)(iii)

COMPANY : ALPS ELECTRIC CO., LTD.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003
POWER : AC120V/60Hz

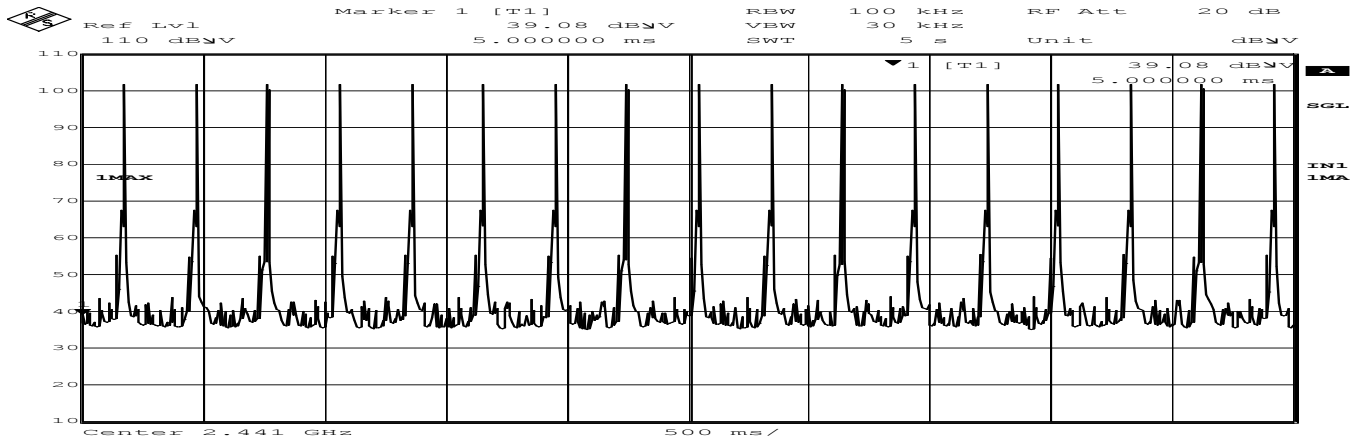
UL Japan, Inc. Yamakita No.1 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
DATE : 2008.01.25
TEMP./HUMI : 22deg.C./32%
TEST MODE : Transmitting
ENGINEER : Makoto Hosaka

Hopping (DH5):

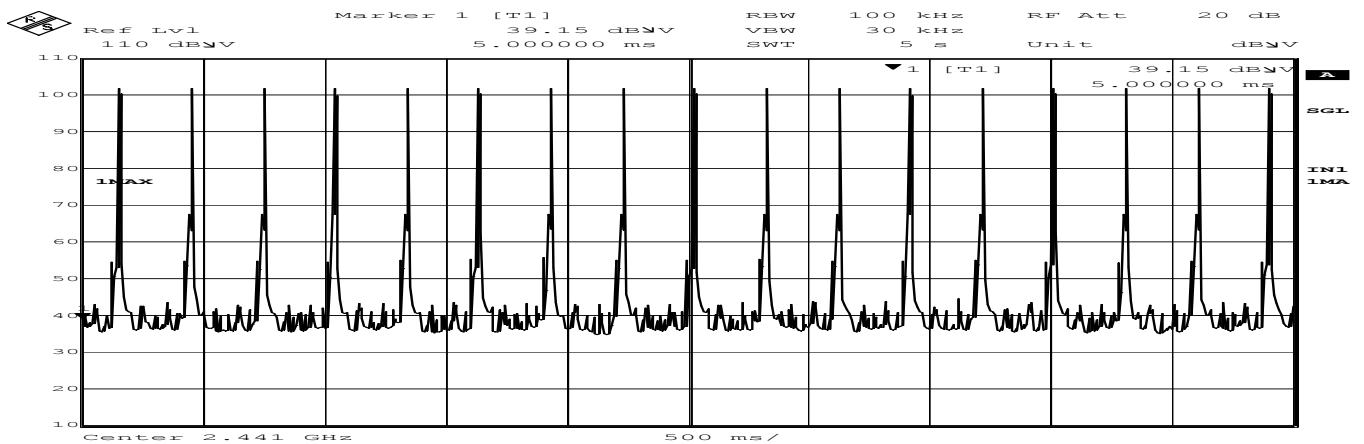
Count 1



Count 2



Count 3

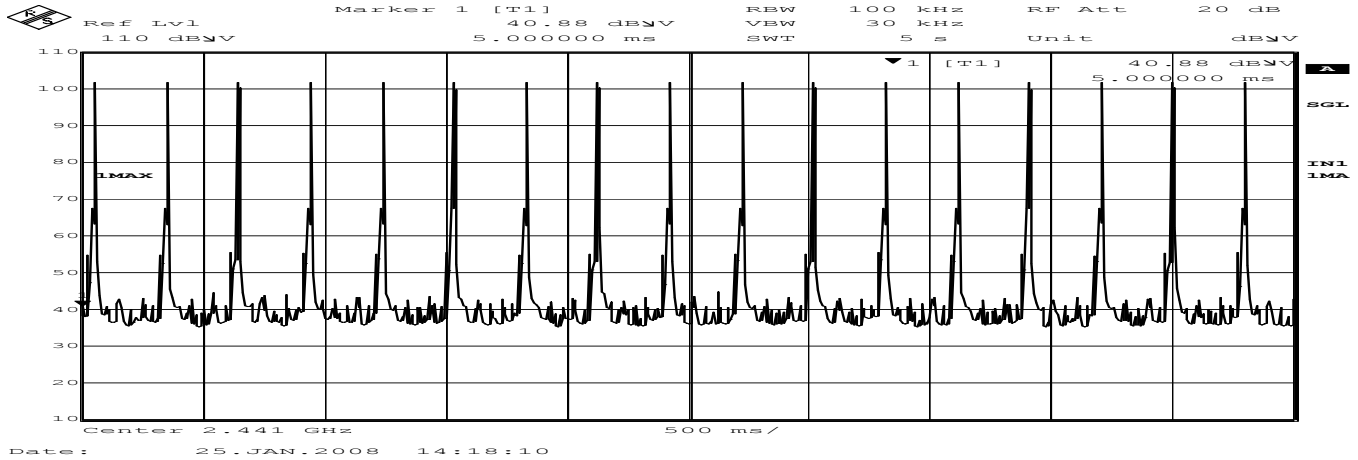


Dwell Time: FCC 15.247(a)(1)(iii)

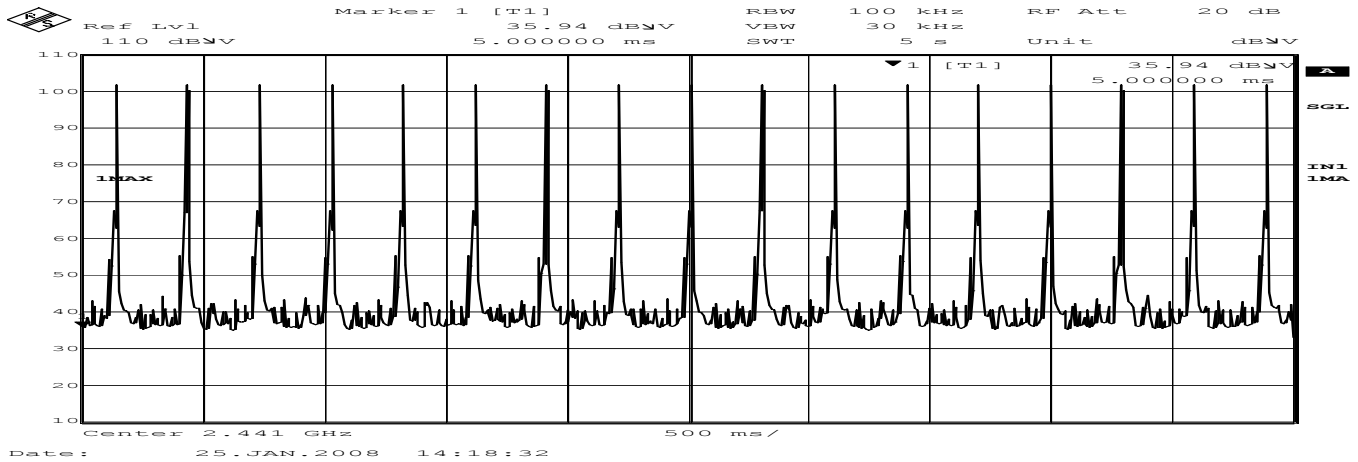
COMPANY : ALPS ELECTRIC CO., LTD.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003
 POWER : AC120V/60Hz

UL Japan, Inc. Yamakita No.1 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
 DATE : 2008.01.25
 TEMP./HUMI : 22deg.C./32%
 TEST MODE : Transmitting
 ENGINEER : Makoto Hosaka

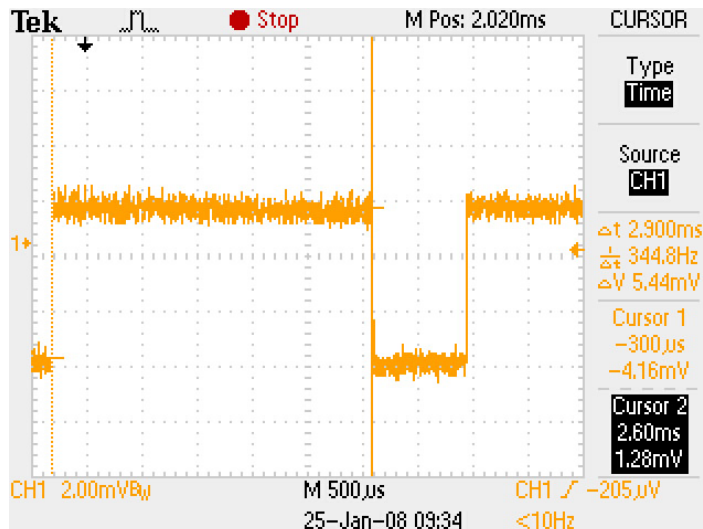
Count 4



Count 5



Duty cycle(Hopping DH5)



Average times of rising in 30 sec. of sweep = (17 + 17 + 17 + 17 + 17) / 5 = 17
 Average times of rising in 1 sec. = 17 / 5s = 3.4
 Average times of rising in 0.4x = 0.4 * 79ch * 3.4 = 107.44
 Dwell time = 107.44 * 2.900 = 311.58 [ms]
 Limit : Dwell Time < 0.4[s]

Dwell Time: FCC 15.247(a)(1)(iii)

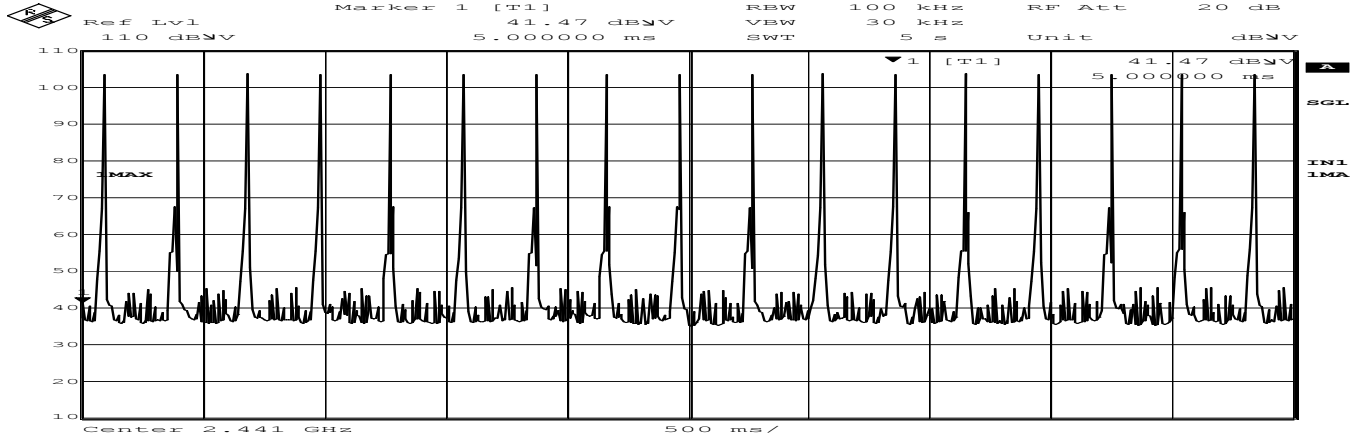
UL Japan, Inc. Yamakita No.1 Shielded Room

COMPANY : ALPS ELECTRIC CO., LTD.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003
POWER : AC120V/60Hz

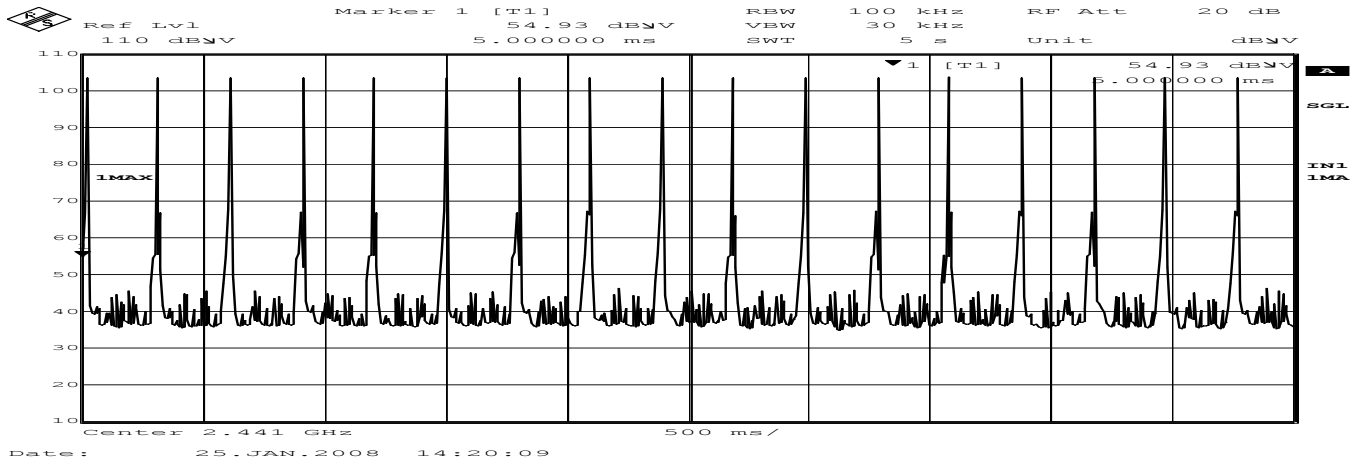
REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
DATE : 2008.01.25
TEMP./HUMI : 22deg.C./32%
TEST MODE : Transmitting
ENGINEER : Makoto Hosaka

Hopping (3DH1):

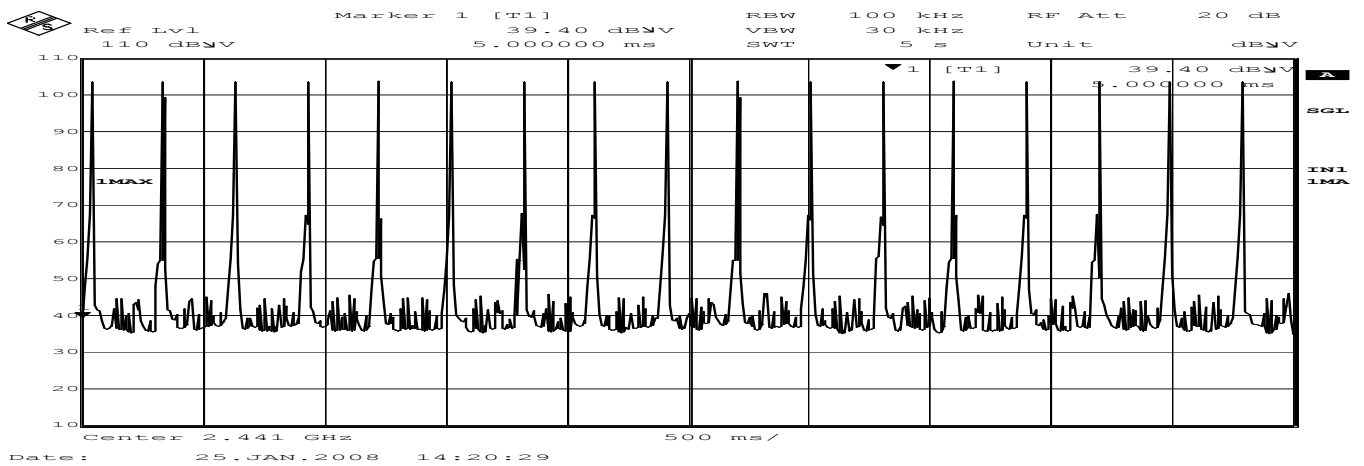
Count 1



Count 2



Count 3

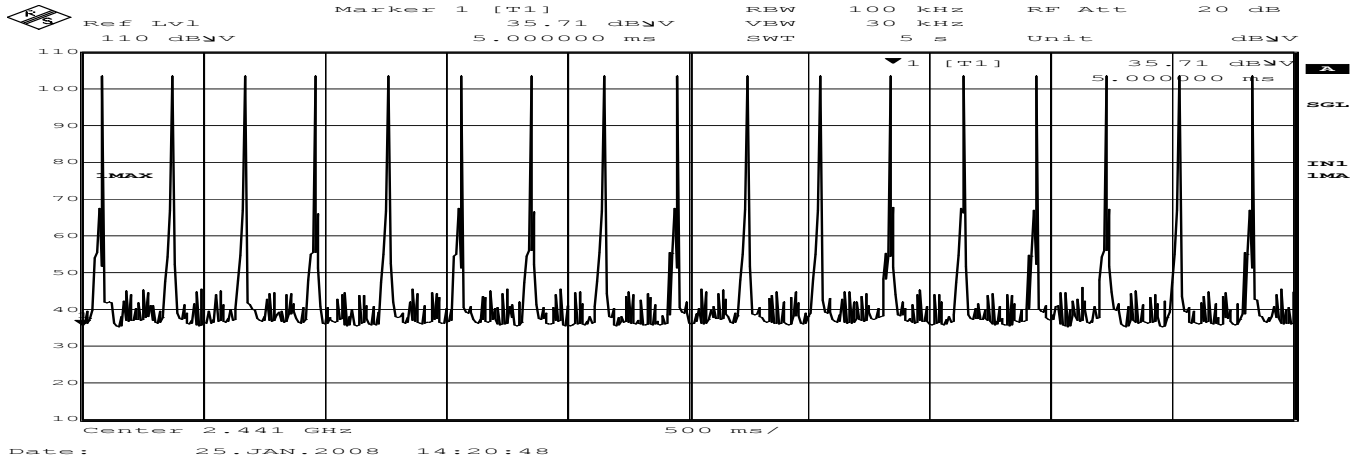


Dwell Time: FCC 15.247(a)(1)(iii)

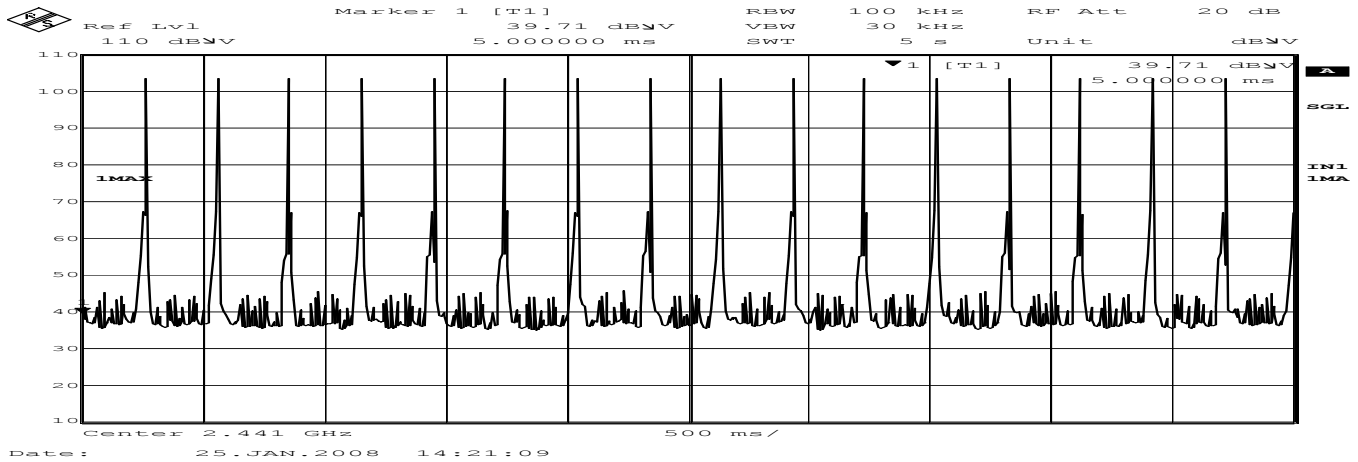
COMPANY : ALPS ELECTRIC CO., LTD.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003
 POWER : AC120V/60Hz

UL Japan, Inc. Yamakita No.1 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
 DATE : 2008.01.25
 TEMP./HUMI : 22deg.C./32%
 TEST MODE : Transmitting
 ENGINEER : Makoto Hosaka

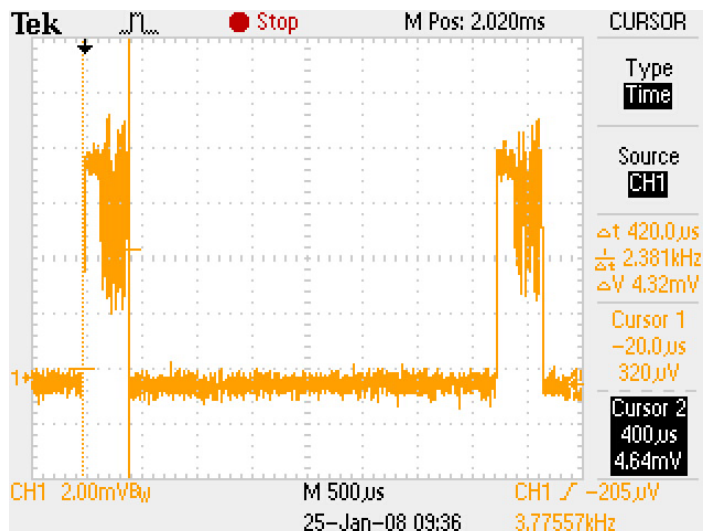
Count 4



Count 5



Duty cycle(Hopping 3DH1)



Average times of rising in 30 sec. of sweep = (17 + 17 + 17 + 17 + 16) / 5 = 16.8
 Average times of rising in 1 sec. = 16.8 / 5s = 3.36
 Average times of rising in 0.4x = 0.4 * 79ch * 3.36 = 106.18
 Dwell time = 106.18 * 0.420 = 44.60 [ms]
 Limit : Dwell Time < 0.4[s]

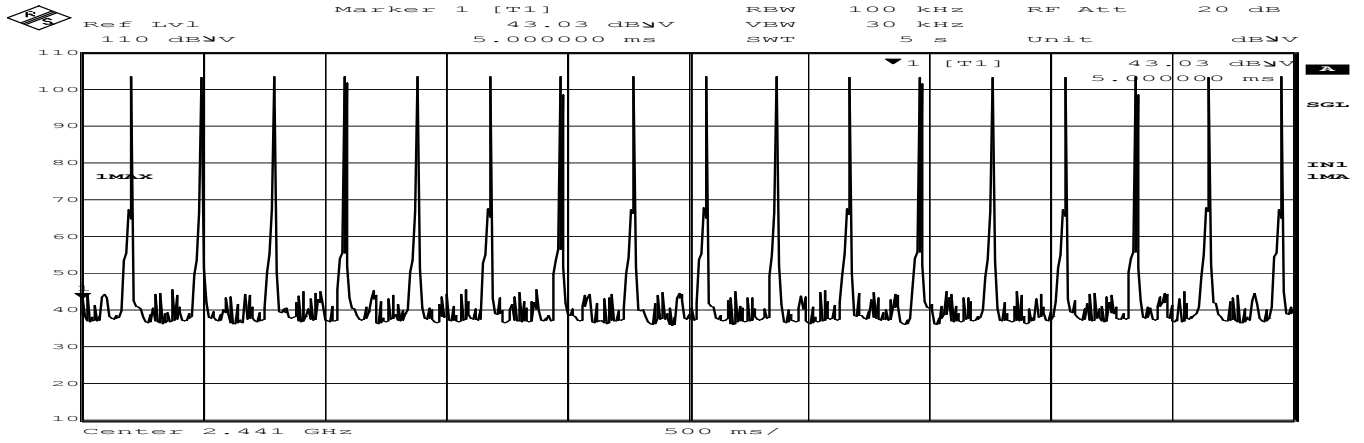
Dwell Time: FCC 15.247(a)(1)(iii)

COMPANY : ALPS ELECTRIC CO., LTD.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003
POWER : AC120V/60Hz

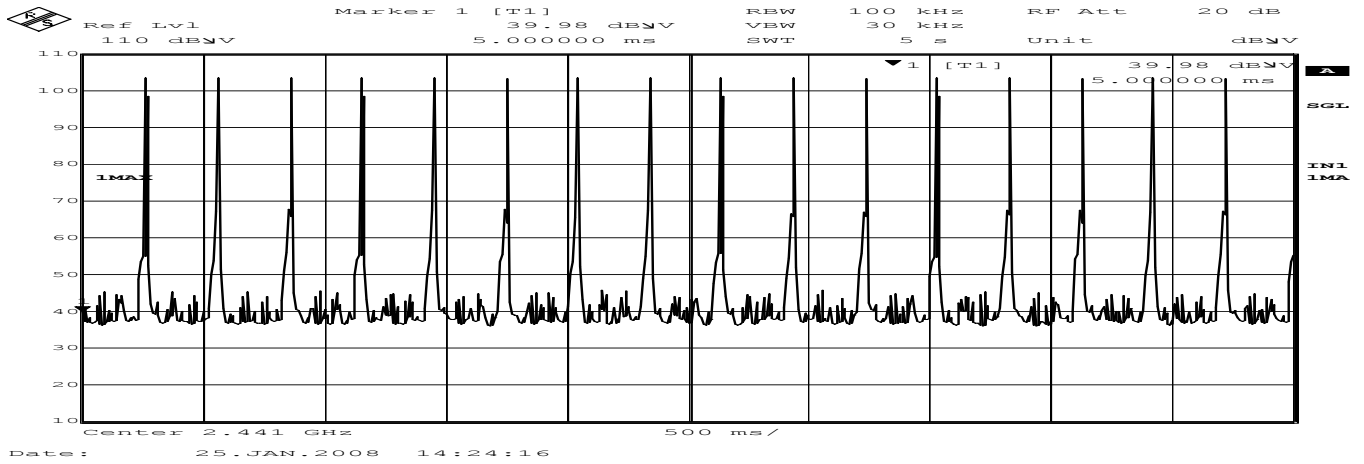
UL Japan, Inc. Yamakita No.1 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
DATE : 2008.01.25
TEMP./HUMI : 22deg.C./32%
TEST MODE : Transmitting
ENGINEER : Makoto Hosaka

Hopping (3DH3):

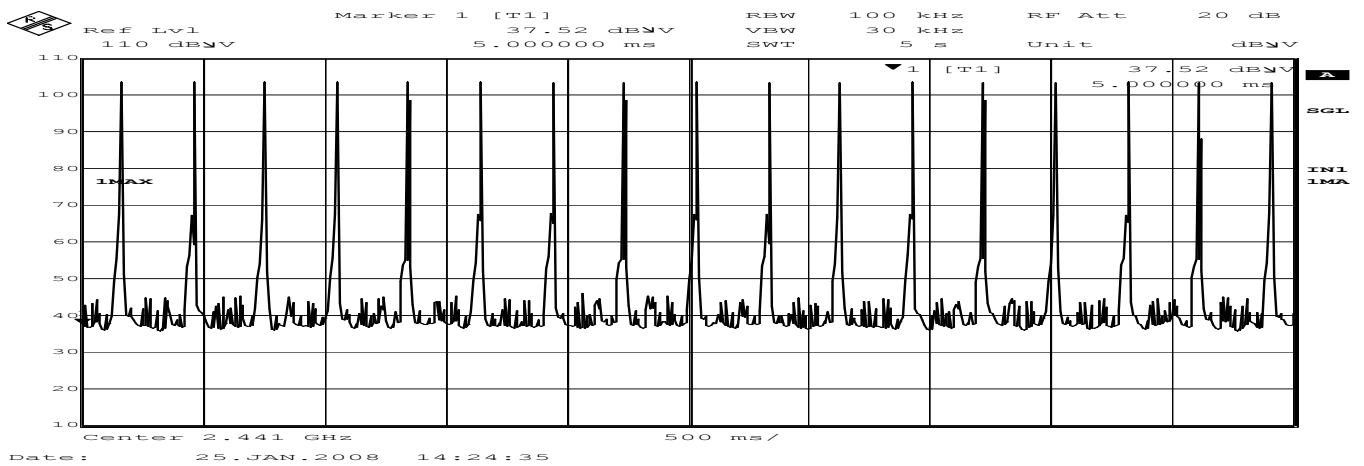
Count 1



Count 2



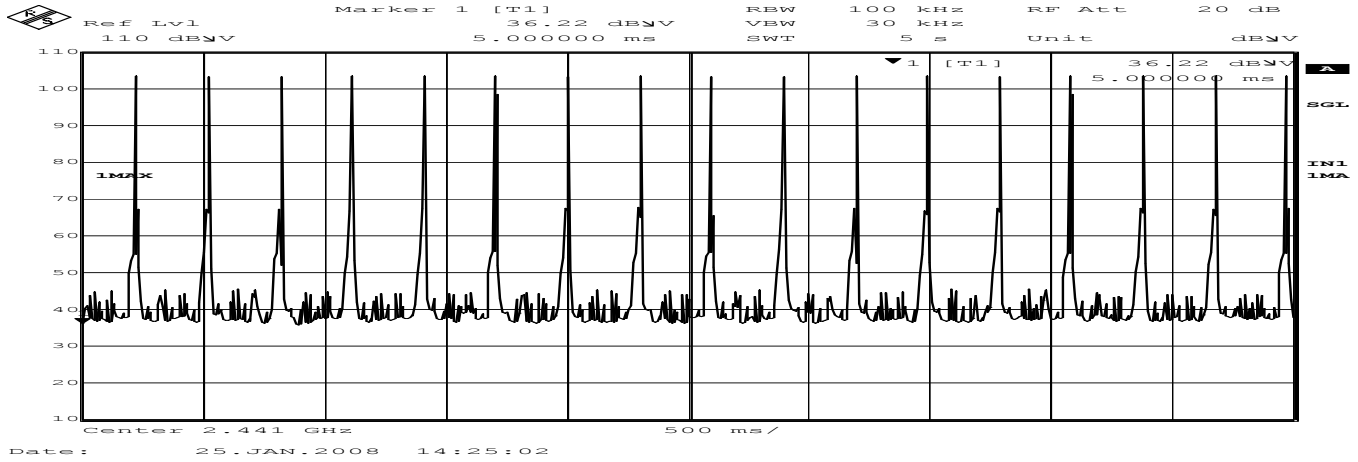
Count 3



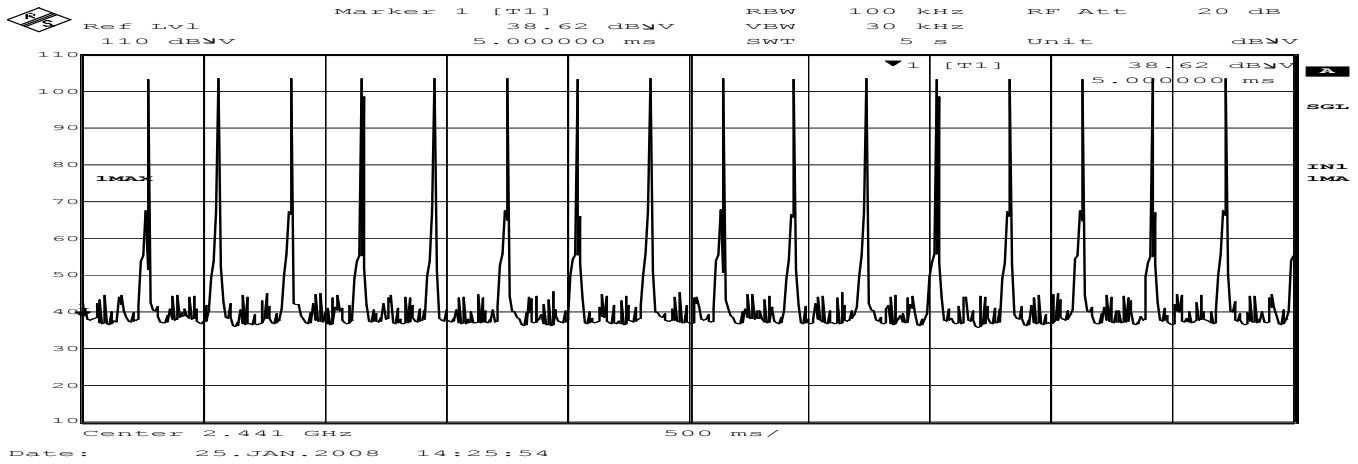
Dwell Time: FCC 15.247(a)(1)(iii)

COMPANY	: ALPS ELECTRIC CO., LTD.	UL Japan, Inc. Yamakita No.1 Shielded Room	
EQUIPMENT	: Photo Printer	REPORT NO	: 28EE0156-YK-01-B
MODEL NUMBER	: CZA-10011B	REGULATION	: Fcc Part15SubpartC 247(a)(1)(iii)
SERIAL NUMBER	: 003	DATE	: 2008.01.25
POWER	: AC120V/60Hz	TEMP./HUMI	: 22deg.C./32%
		TEST MODE	: Transmitting
		ENGINEER	: Makoto Hosaka

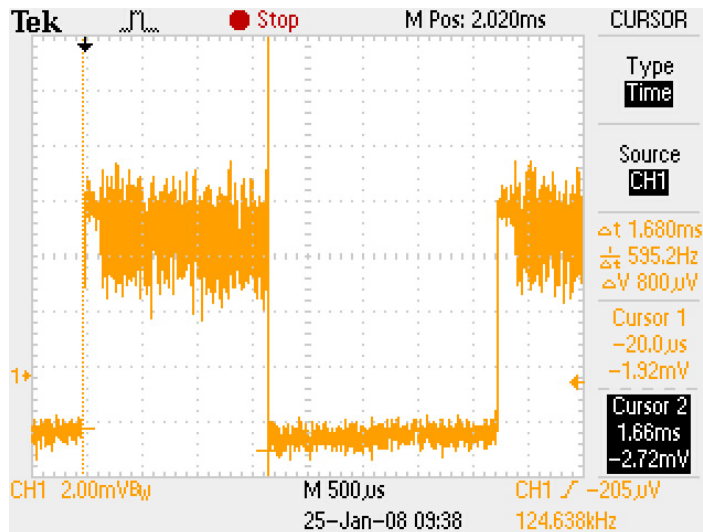
Count 4



Count 5



Duty cycle(Hopping 3DH3)



Average times of rising in 30 sec. of sweep = (17 + 16 + 17 + 17 + 16) / 5 = 16.6
 Average times of rising in 1 sec. = 16.6 / 5s = 3.32
 Average times of rising in 0.4x = 0.4 * 79ch * 3.32 = 104.91
 Dwell time = 104.91 * 1.68 = 176.25 [ms]
 Limit : Dwell Time < 0.4[s]

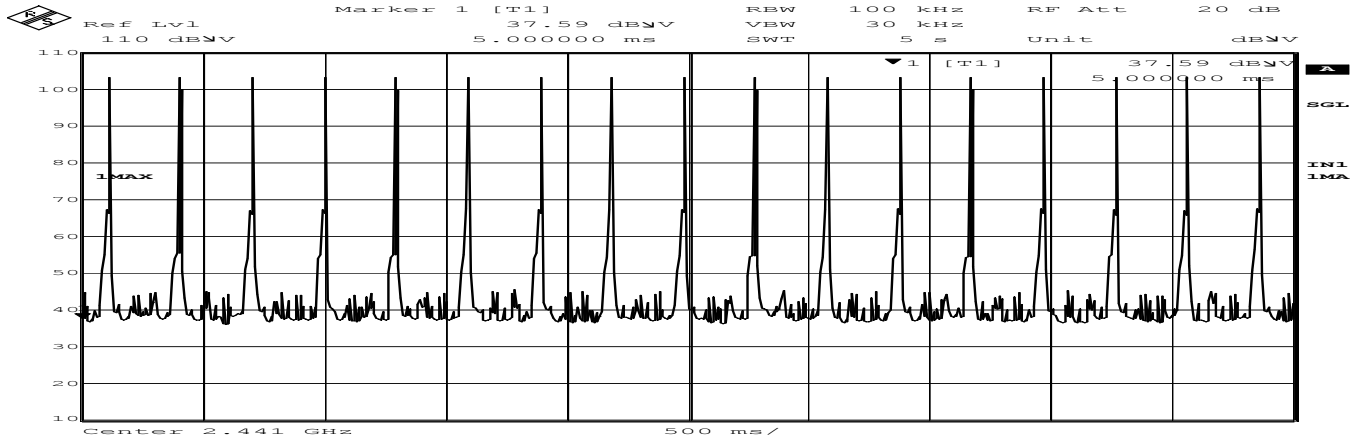
Dwell Time: FCC 15.247(a)(1)(iii)

COMPANY : ALPS ELECTRIC CO., LTD.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003
POWER : AC120V/60Hz

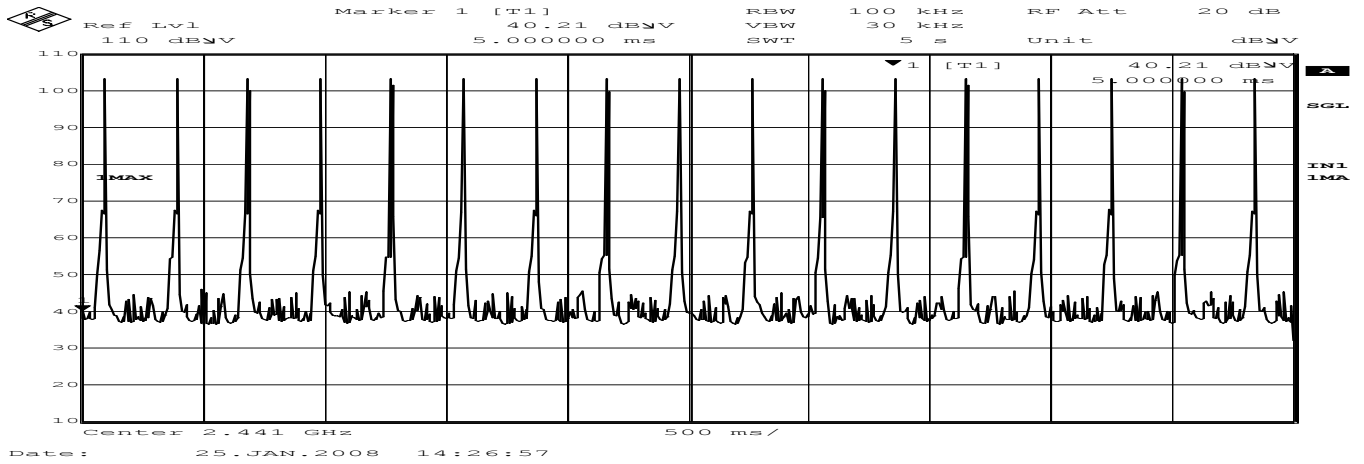
UL Japan, Inc. Yamakita No.1 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
DATE : 2008.01.25
TEMP./HUMI : 22deg.C./32%
TEST MODE : Transmitting
ENGINEER : Makoto Hosaka

Hopping (3DH5):

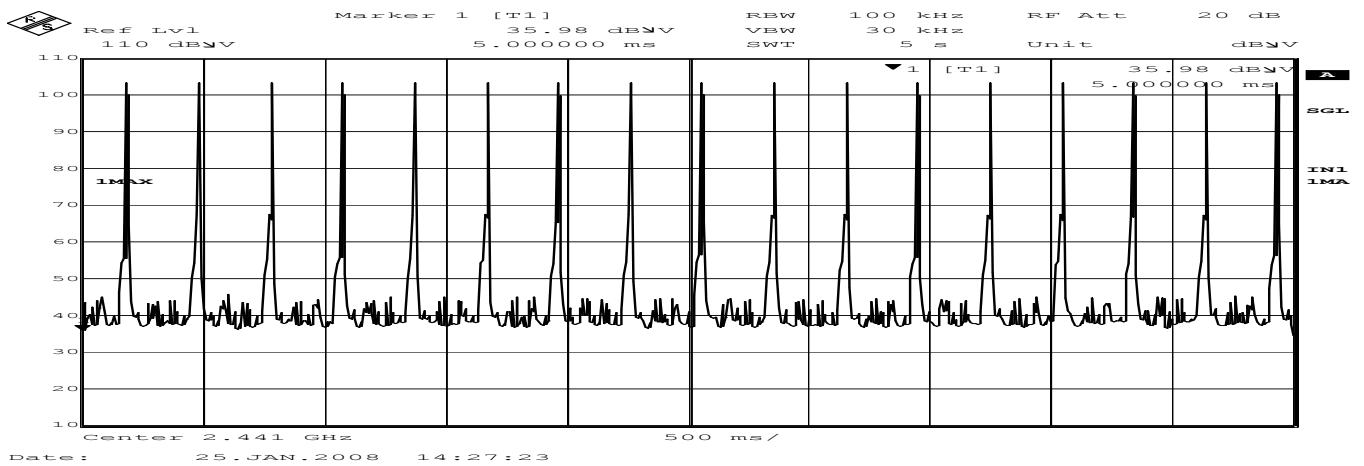
Count 1



Count 2



Count 3

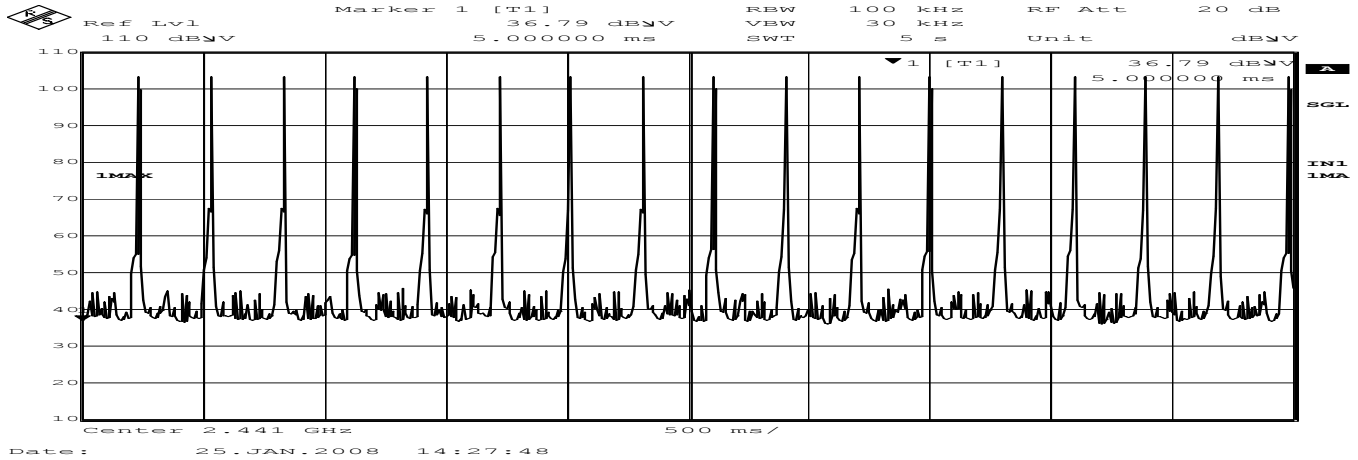


Dwell Time: FCC 15.247(a)(1)(iii)

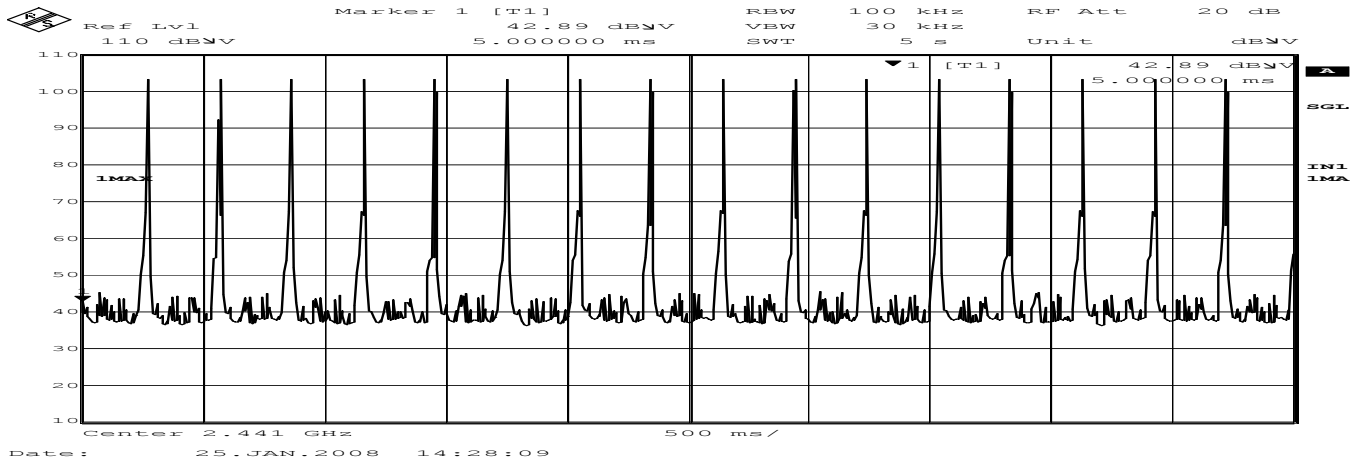
COMPANY : ALPS ELECTRIC CO., LTD.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003
 POWER : AC120V/60Hz

UL Japan, Inc. Yamakita No.1 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
 DATE : 2008.01.25
 TEMP./HUMI : 22deg.C./32%
 TEST MODE : Transmitting
 ENGINEER : Makoto Hosaka

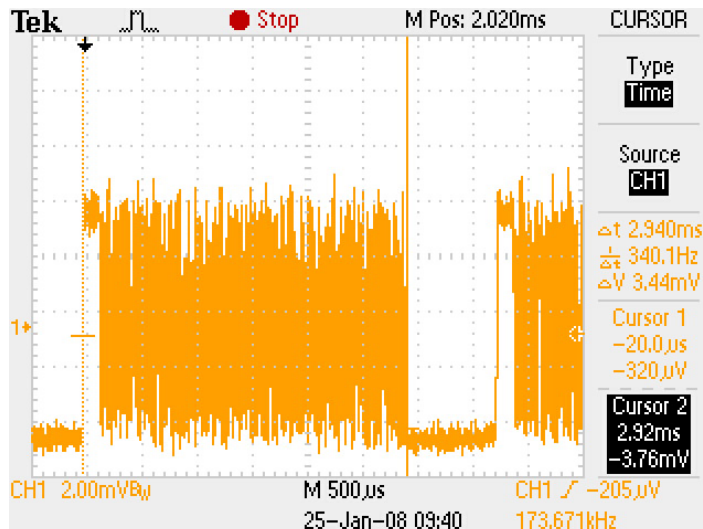
Count 4



Count 5



Duty cycle(Hopping 3DHS)



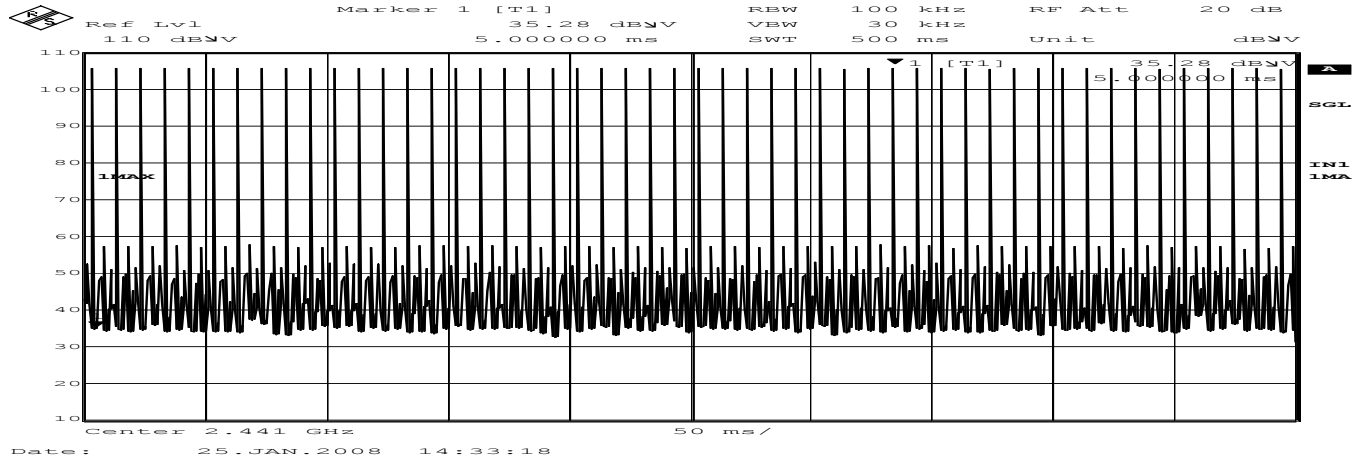
Average times of rising in 30 sec. of sweep = (17 + 17 + 17 + 17 + 16) / 5 = 16.8
 Average times of rising in 1 sec. = 16.8 / 5s = 3.36
 Average times of rising in 0.4x = 0.4 * 79ch * 3.36 = 106.18
 Dwell time = 106.18 * 2.94 = 312.16 [ms]
 Limit : Dwell Time < 0.4[s]

Dwell Time: FCC 15.247(a)(1)(iii)

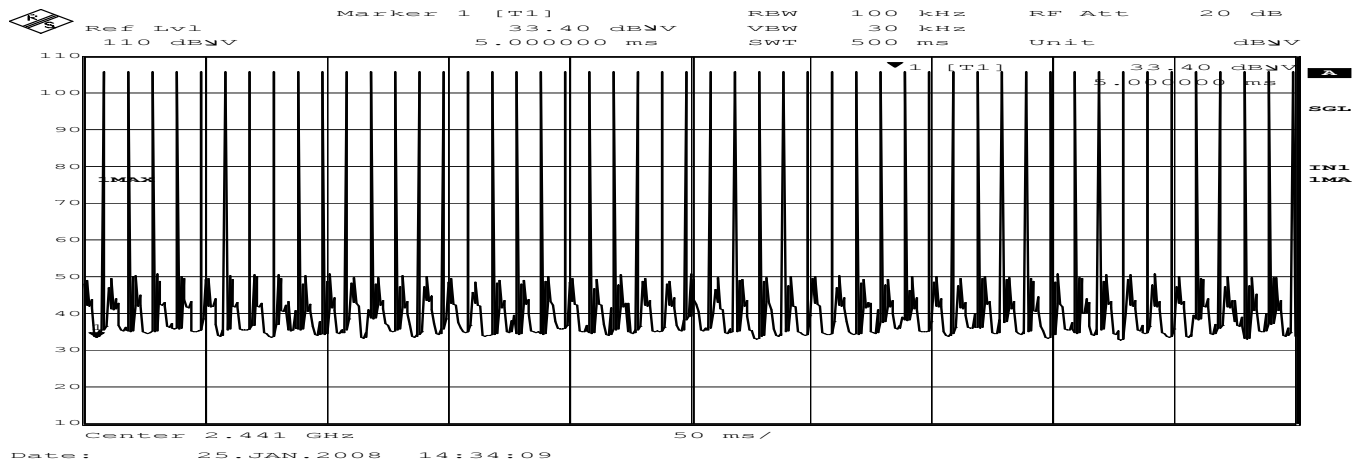
COMPANY : ALPS ELECTRIC CO., LTD.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003
POWER : AC120V/60Hz

UL Japan, Inc. Yamakita No.1 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)
DATE : 2008.01.25
TEMP./HUMI : 22deg.C./32%
TEST MODE : Transmitting
ENGINEER : Makoto Hosaka

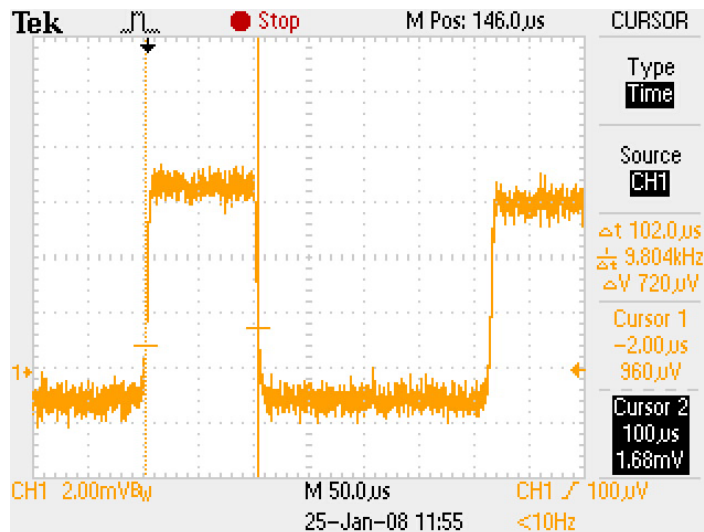
Count 4



Count 5



Duty cycle(Inquiry)



Average times of rising in 30 sec. of sweep = (50 + 50 + 50 + 50 + 50) / 5 = 50
 Average times of rising in 1 sec. = 50 / 0.5s = 100.0
 Average times of rising in 0.4x = 0.4 * 32ch * 100.0 = 1280.0
 Dwell time = 1280.0 * 0.102 = 130.56 [ms]
 Limit : Dwell Time < 0.4[s]

Maximum Peak Conducted Output Power

UL Japan, Inc.
YAMAKITA No.4 Shielded Room

COMPANY : Alps Electric Co., Ltd.
EQUIPMENT : Photo Printer
MODEL NO. : CZA-10011B
SERIAL NO. : 003

REPORT NO : 28EE0156-YK-01-B
REGULATION : Fcc Part15SubpartC 247(b)(1)
DATE : 2008.01.28
TEMP./HUMI : 22deg.C/40%

POWER : AC120V/60Hz
TEST MODE : Transmitting

ENGINEER : Fumiaki Matsuo

DH5

CH	FREQ [GHz]	P/M Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit (125mW) [dBm]	MARGIN [dB]
Low	2402.00	-5.37	0.90	-4.47	20.96	25.43
Mid	2441.00	-4.61	0.90	-3.71	20.96	24.67
High	2480.00	-5.37	0.90	-4.47	20.96	25.43
Inquiry	-	0.67	0.90	1.57	20.96	19.39

Limit: 125mW=20.96dBm

P/M: Power Meter

CABLE LOSS:0.90dB

2DH5

CH	FREQ [GHz]	P/M Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit (125mW) [dBm]	MARGIN [dB]
Low	2402.00	-1.87	0.90	-0.97	20.96	21.93
Mid	2441.00	-2.03	0.90	-1.13	20.96	22.09
High	2480.00	-3.19	0.90	-2.29	20.96	23.25

Limit: 125mW=20.96dBm

P/M: Power Meter

CABLE LOSS:0.90dB

3DH5

CH	FREQ [GHz]	P/M Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit (125mW) [dBm]	MARGIN [dB]
Low	2402.00	-1.86	0.90	-0.96	20.96	21.92
Mid	2441.00	-1.94	0.90	-1.04	20.96	22.00
High	2480.00	-3.04	0.90	-2.14	20.96	23.10

Limit: 125mW=20.96dBm

P/M: Power Meter

CABLE LOSS:0.90dB

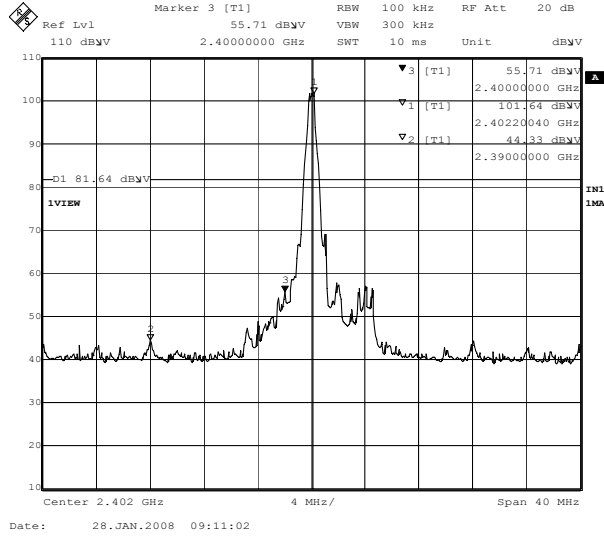
Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

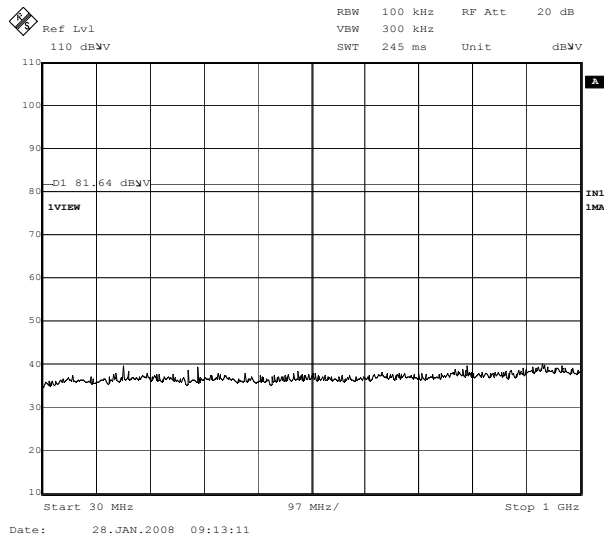
UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP./HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

POWER : AC120V/60Hz
 [Transmitting DH5]
 Ch:2402MHz

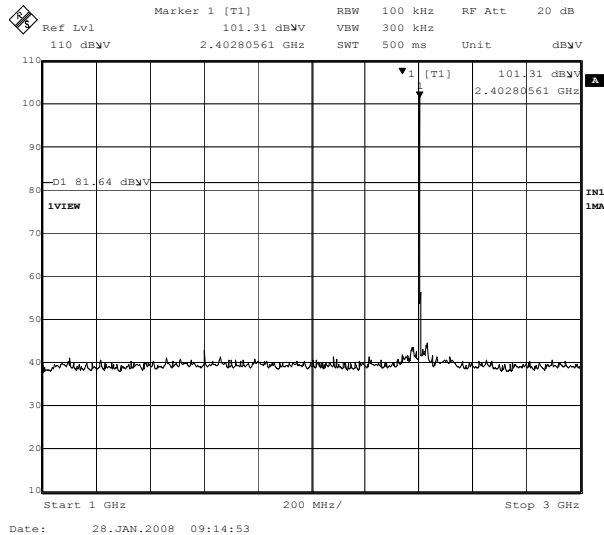
1.



2.



3.



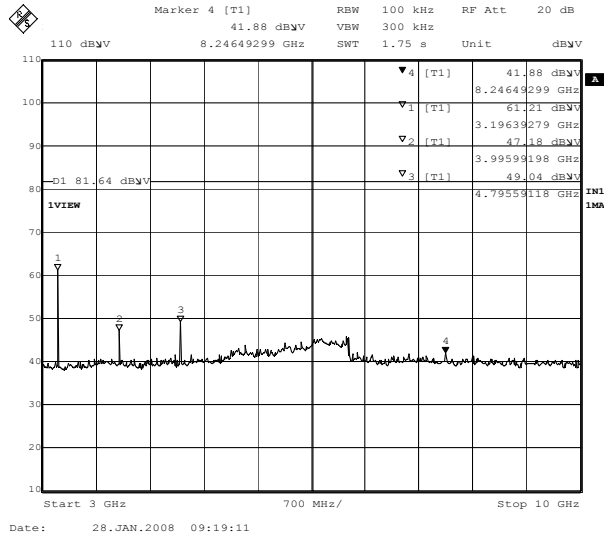
Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

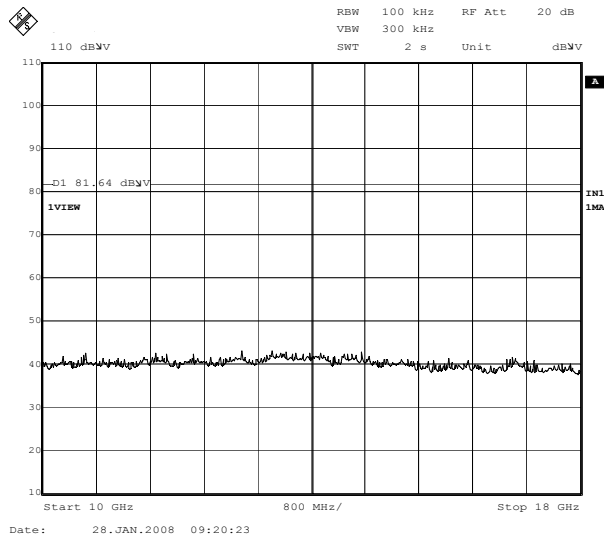
UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP./HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

POWER : AC120V/60Hz
 [Transmitting DH5]
 Ch:2402MHz

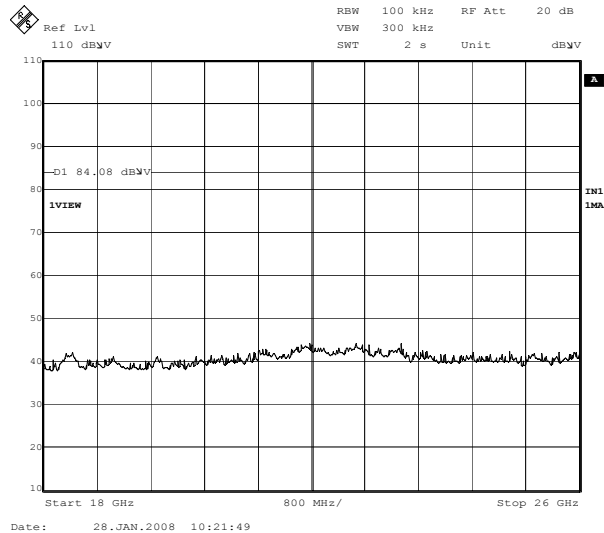
4.



5.



6.



Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

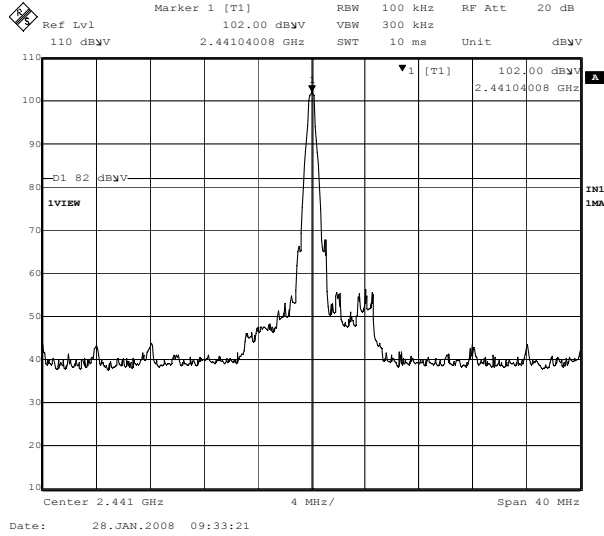
COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP/HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

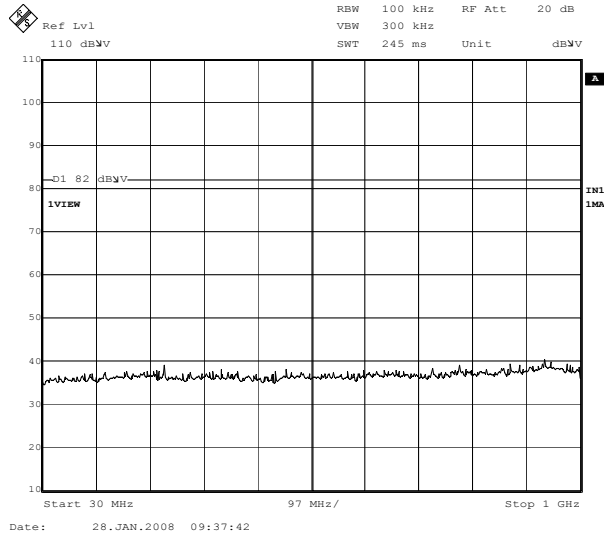
POWER : AC120V/60Hz

[Transmitting DH5]
 Ch:2441MHz

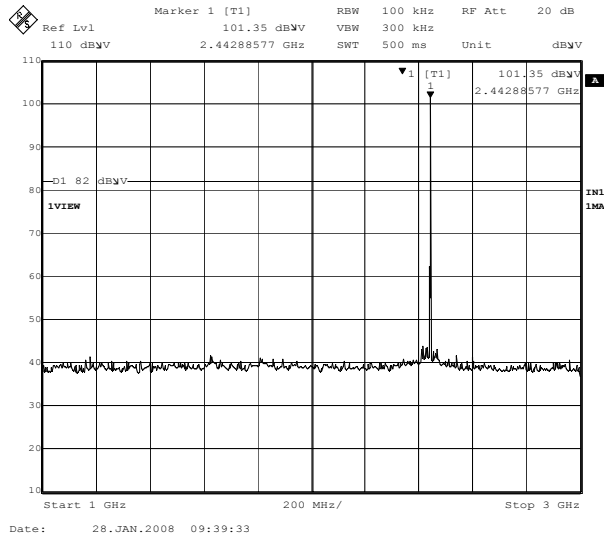
1.



2.



3.



Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

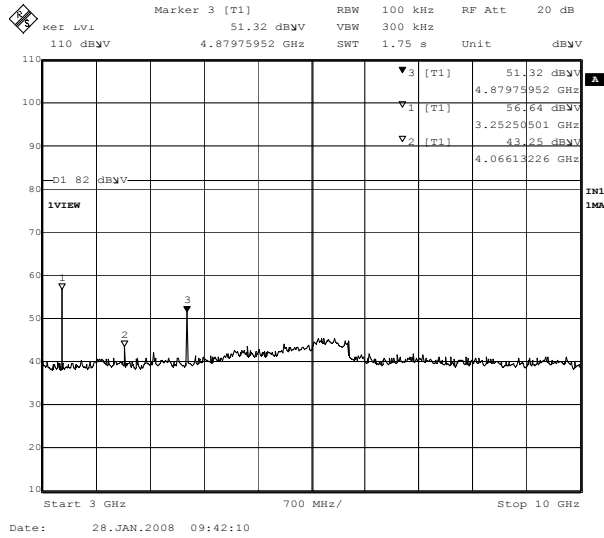
COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP./HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

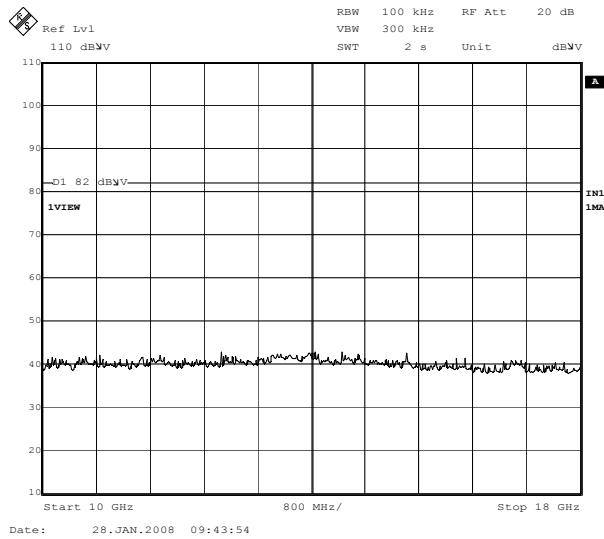
POWER : AC120V/60Hz

[Transmitting DH5]
 Ch:2441MHz

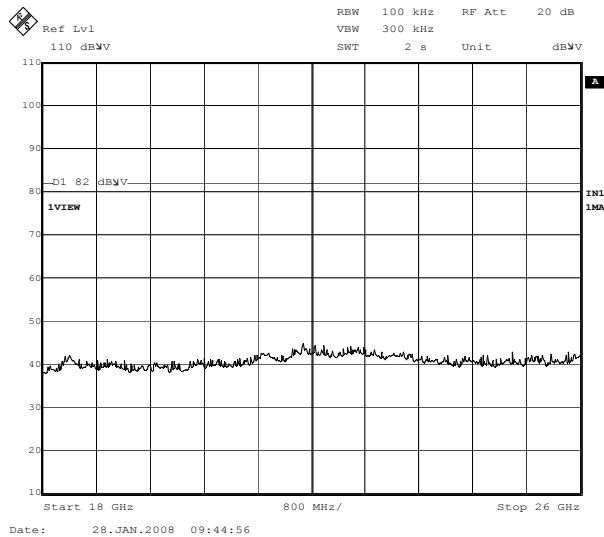
4.



5.



6.



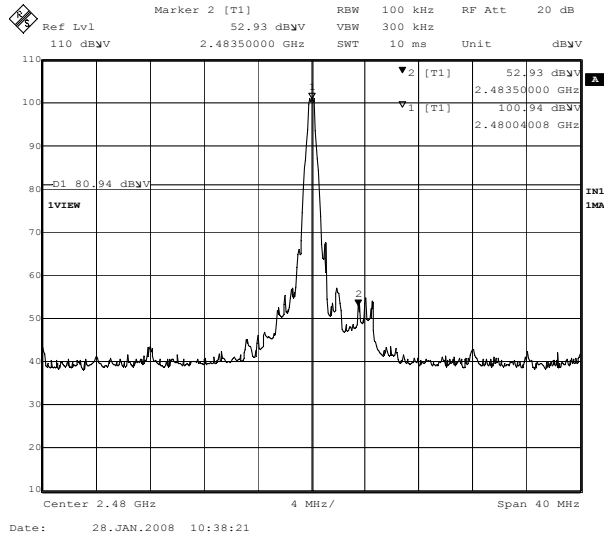
Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

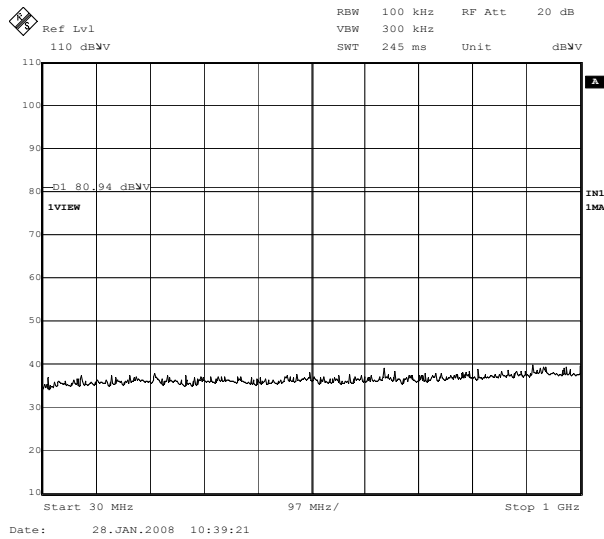
UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP/HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

POWER : AC120V/60Hz
 [Transmitting DH5]
 Ch:2480MHz

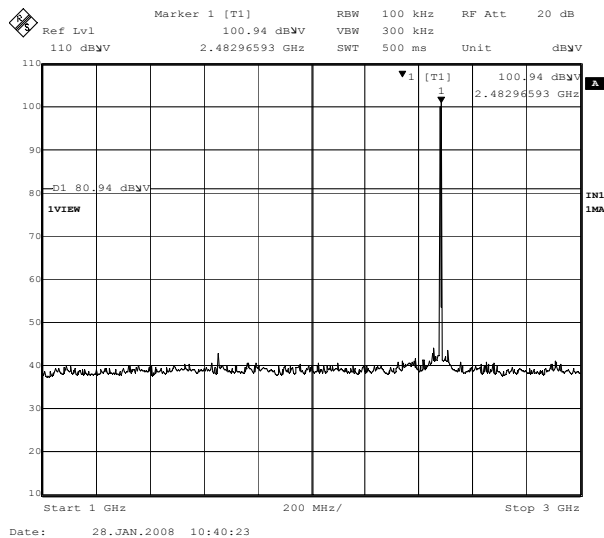
1.



2.



3.



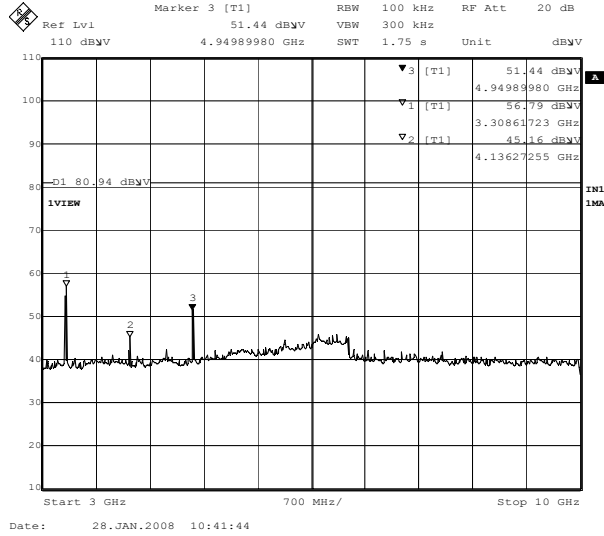
Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

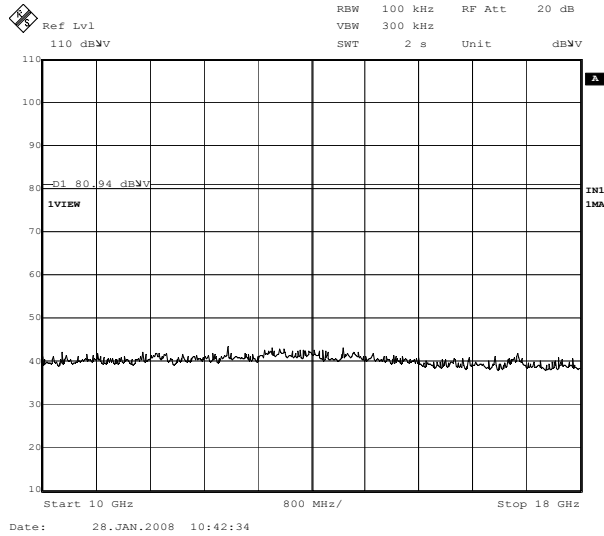
UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP./HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

POWER : AC120V/60Hz
 [Transmitting DH5]
 Ch:2480MHz

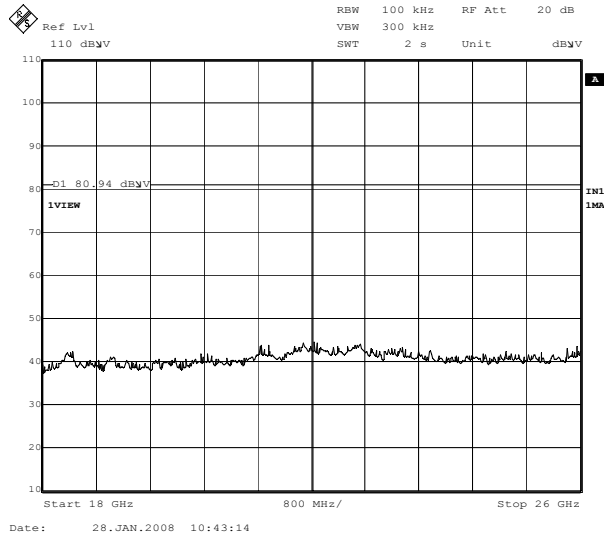
4.



5.



6.



Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

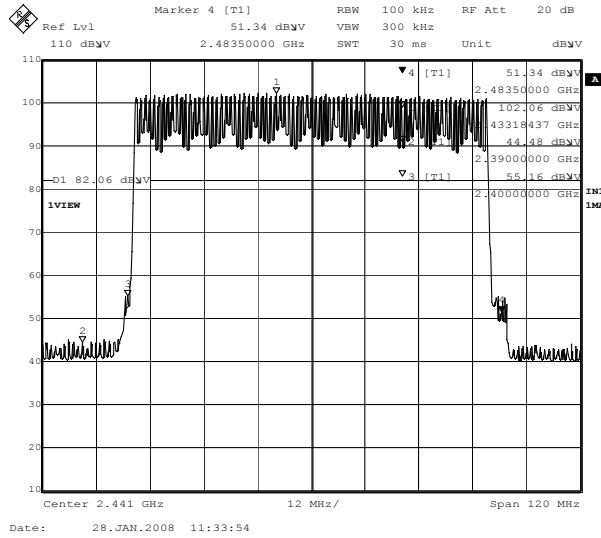
UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP./HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

POWER : AC120V/60Hz

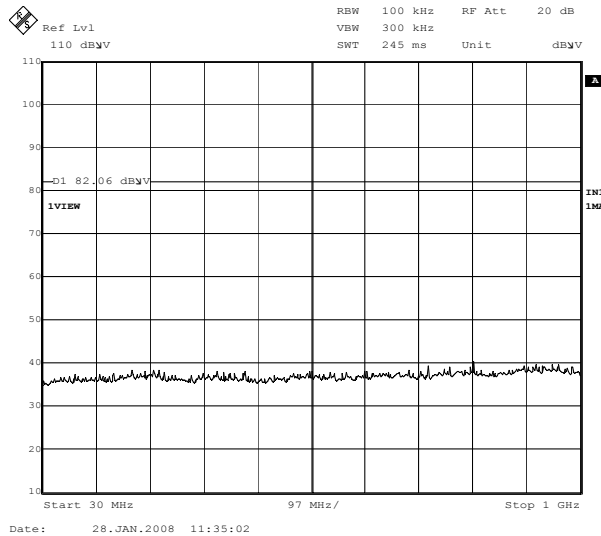
[Transmitting DH5]

Hopping

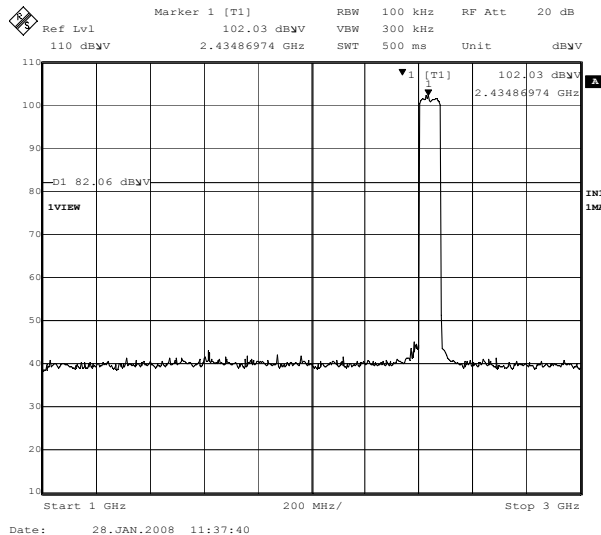
1.



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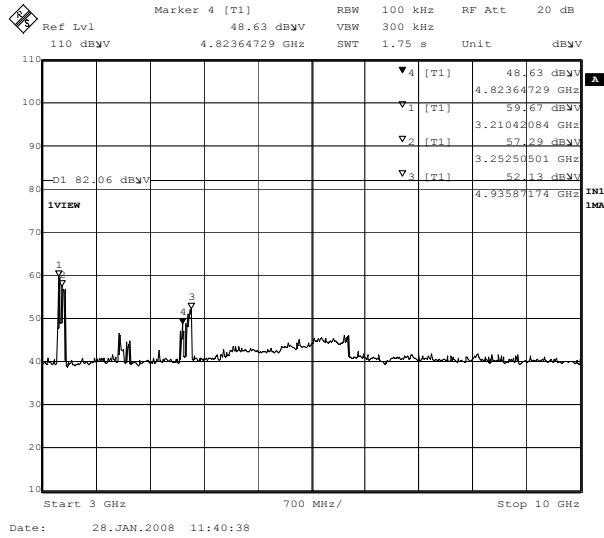


Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

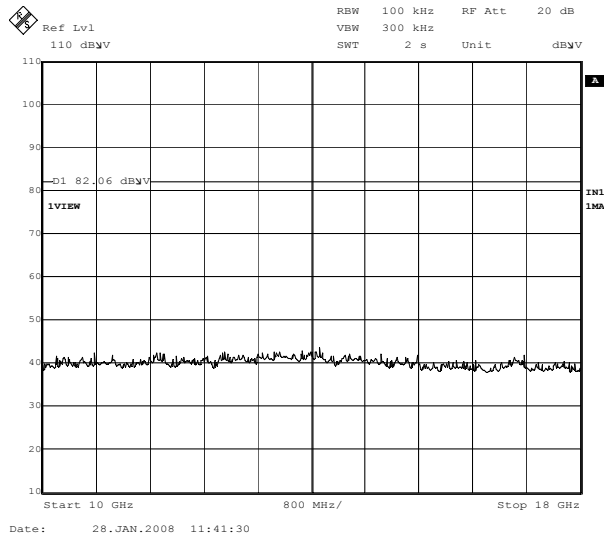
COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP./HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

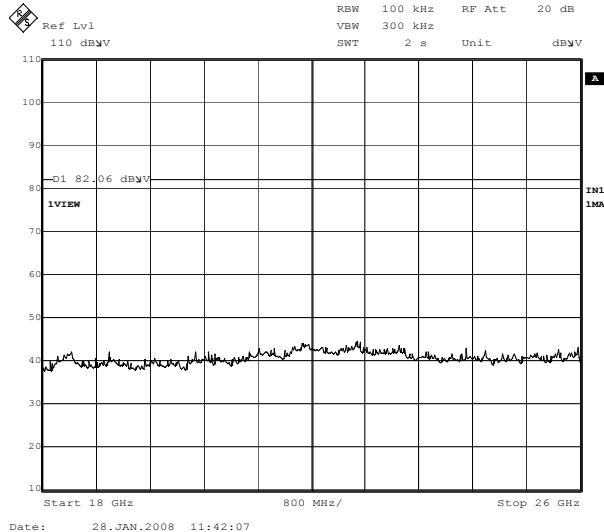
POWER : AC120V/60Hz
 [Transmitting DH5]
Hopping
 4.



5.



6.



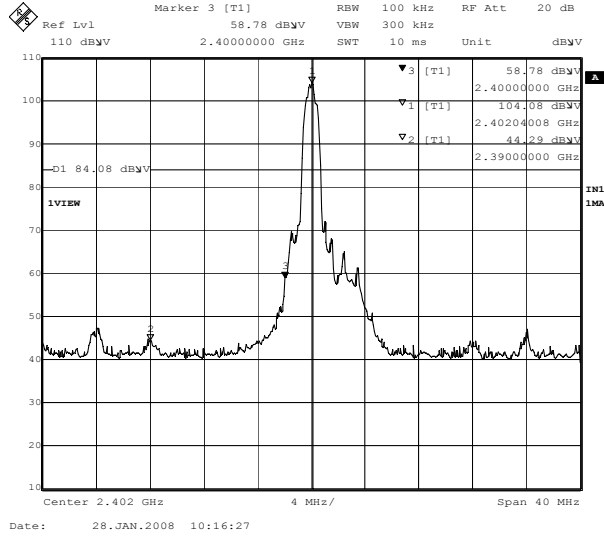
Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

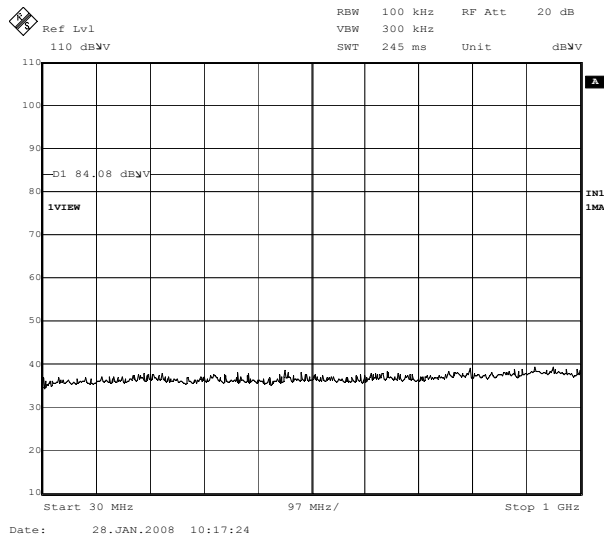
UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP/HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

POWER : AC120V/60Hz
 [Transmitting 3DH5]
 Ch:2402MHz

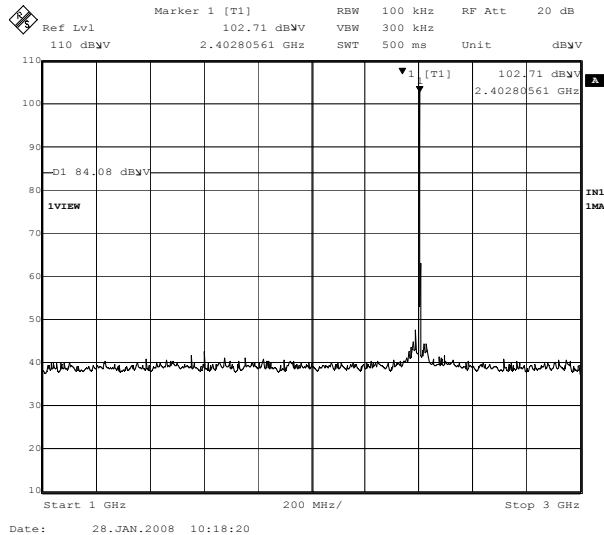
1.



2.



3.



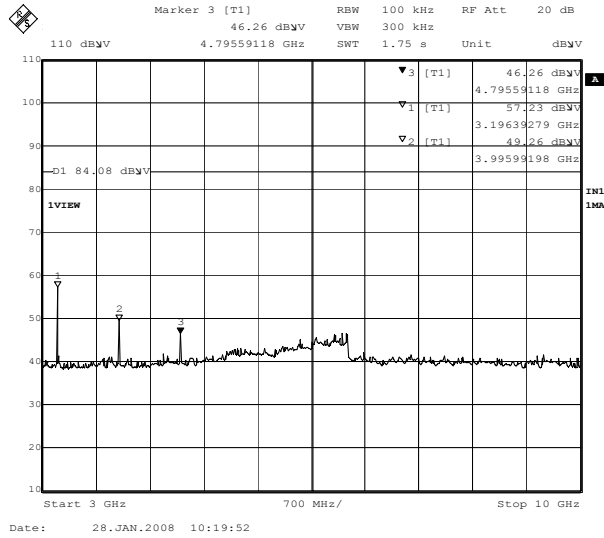
Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

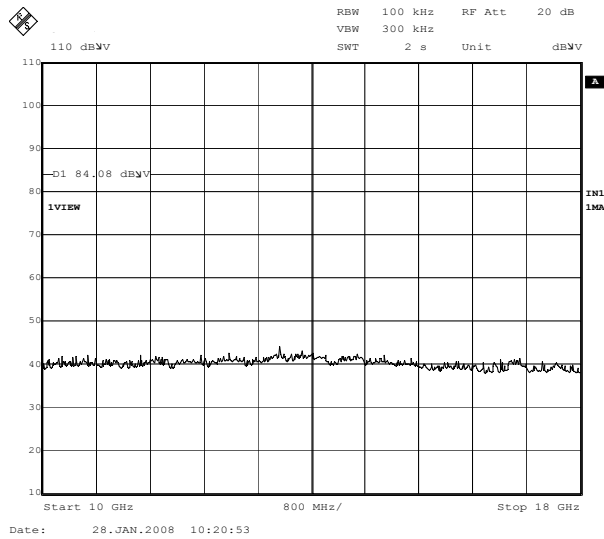
UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP./HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

POWER : AC120V/60Hz
 [Transmitting 3DH5]
 Ch:2402MHz

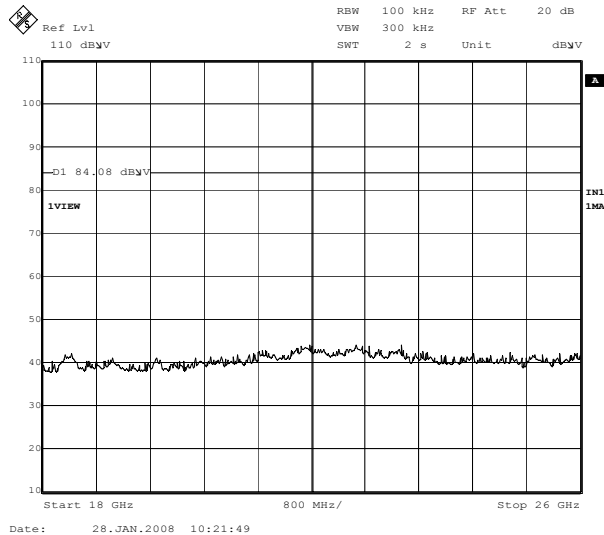
4.



5.



6.



Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

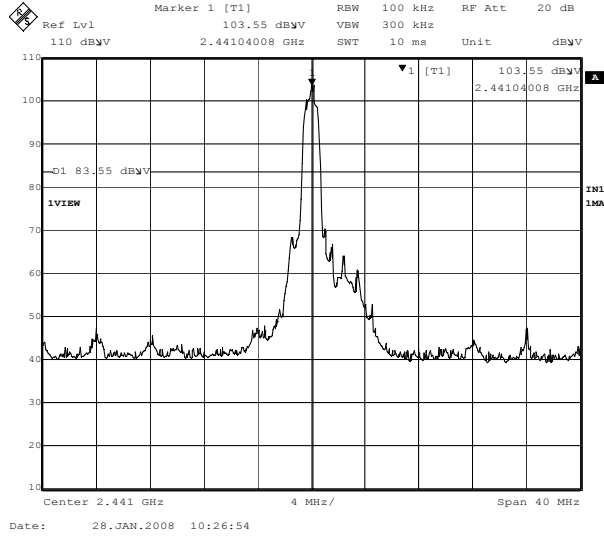
COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP./HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

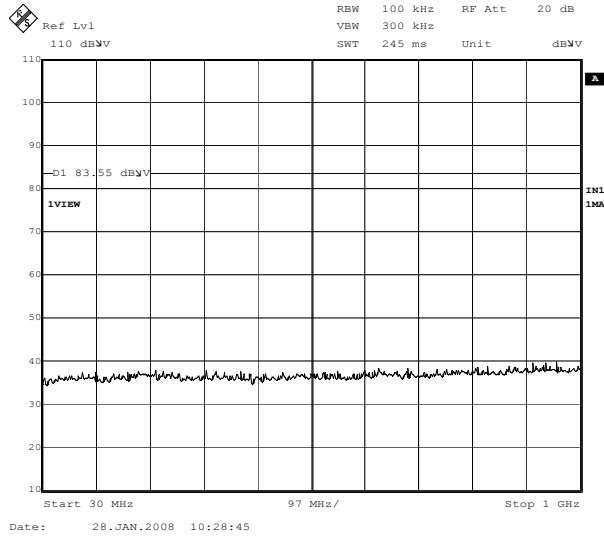
POWER : AC120V/60Hz

[Transmitting 3DH5]
 Ch:2441MHz

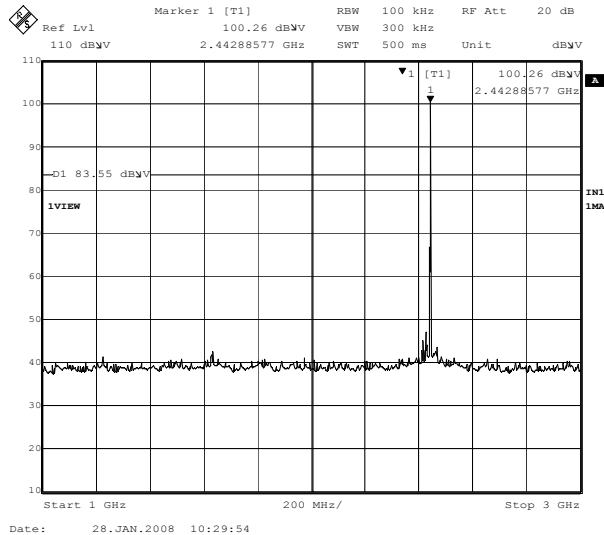
1.



2.



3.



Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

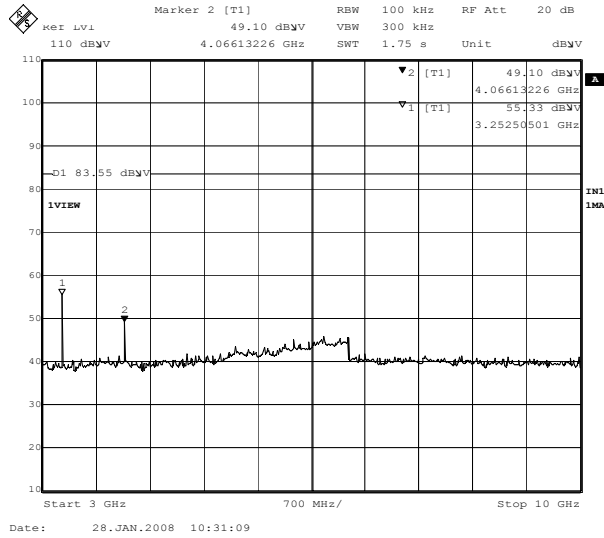
COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP/HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

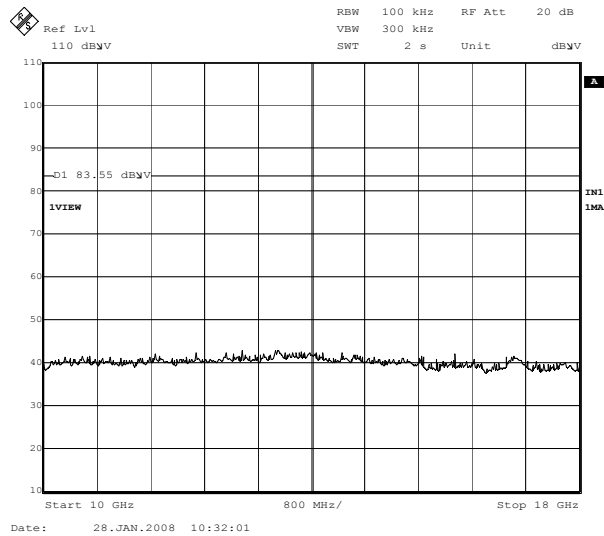
POWER : AC120V/60Hz

[Transmitting 3DH5]
 Ch:2441MHz

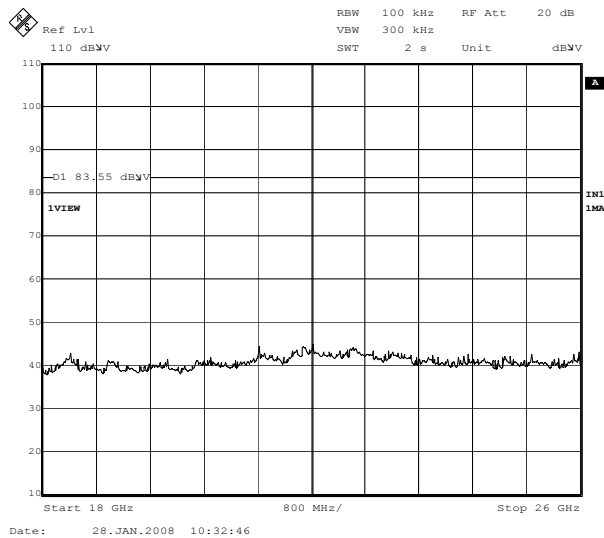
4.



5.



6.



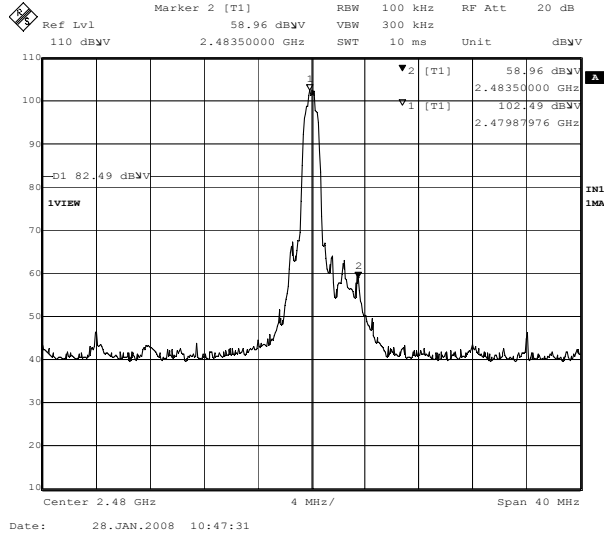
Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

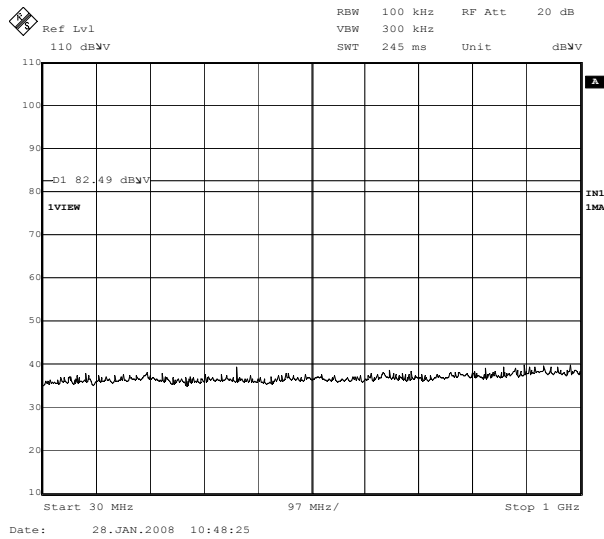
UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP/HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

POWER : AC120V/60Hz
 [Transmitting 3DH5]
 Ch:2480MHz

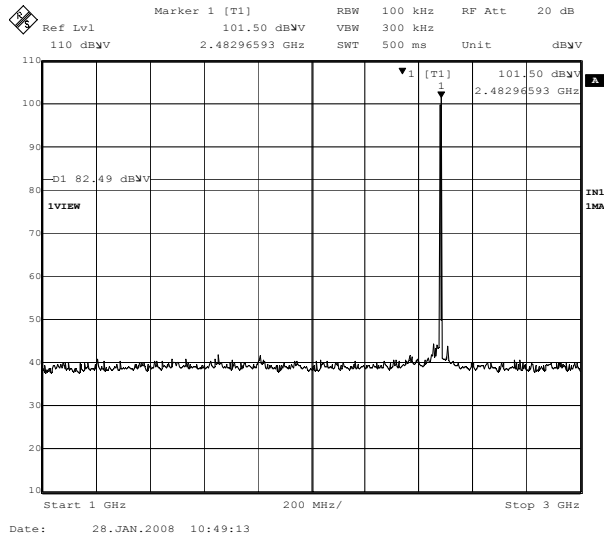
1.



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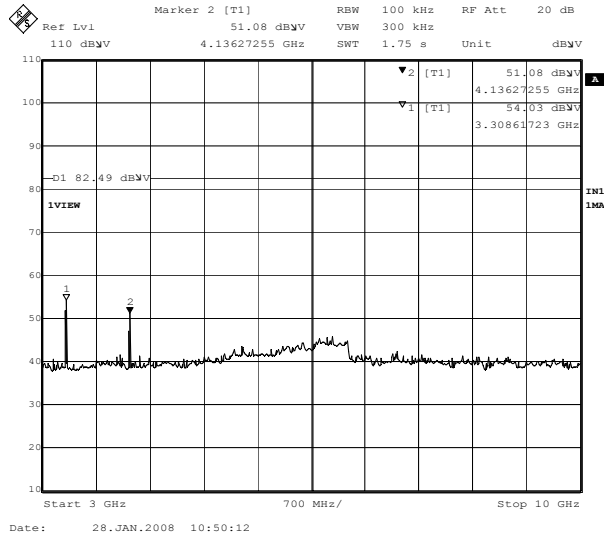
Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

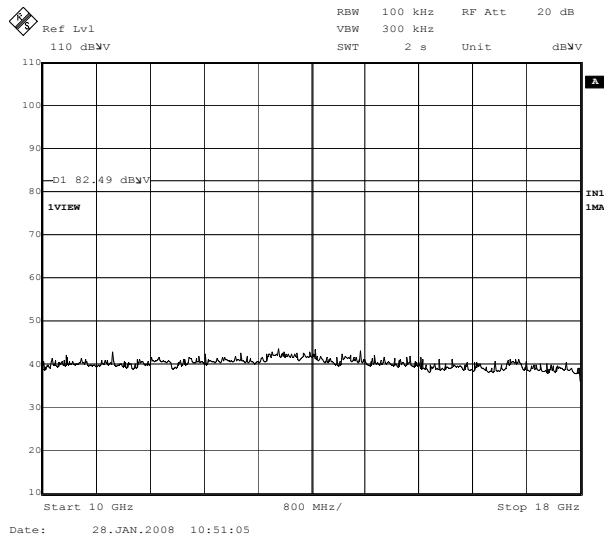
UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP/HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

POWER : AC120V/60Hz
 [Transmitting 3DH5]
 Ch:2480MHz

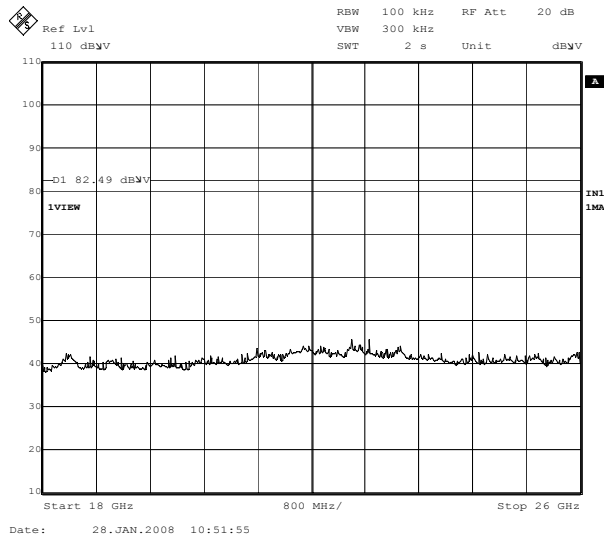
4.



5.



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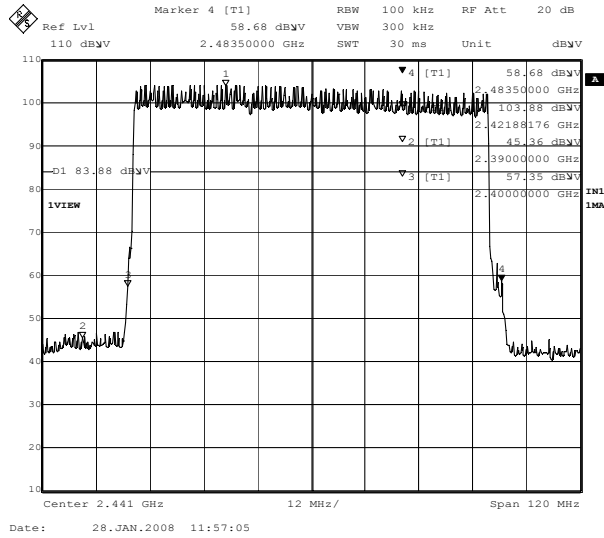
Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

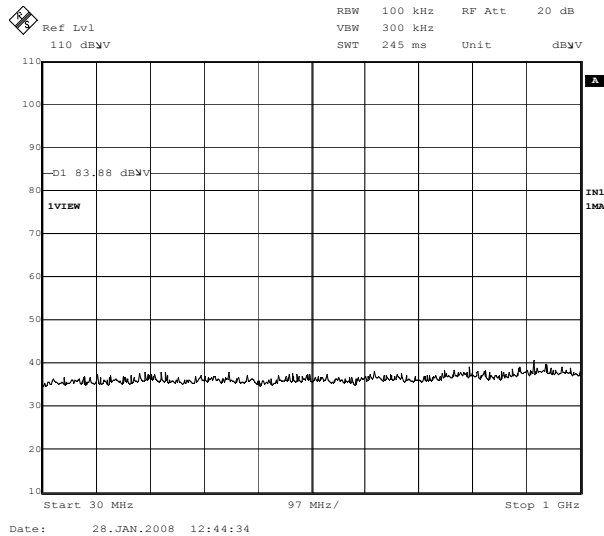
UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP./HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

POWER : AC120V/60Hz
 [Transmitting 3DH5]
Hopping

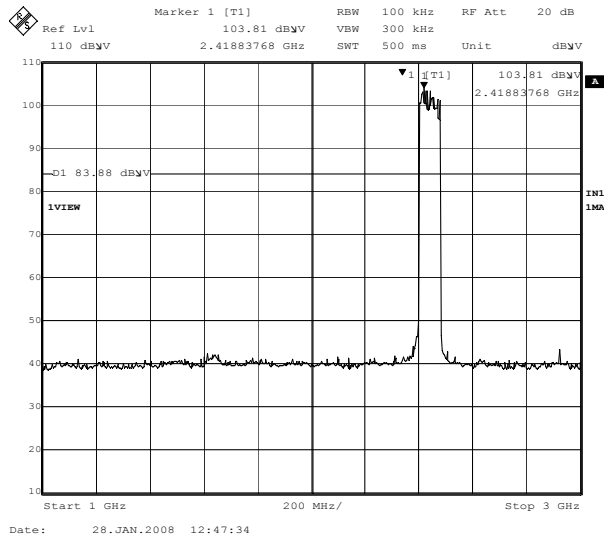
1.



2.



3.

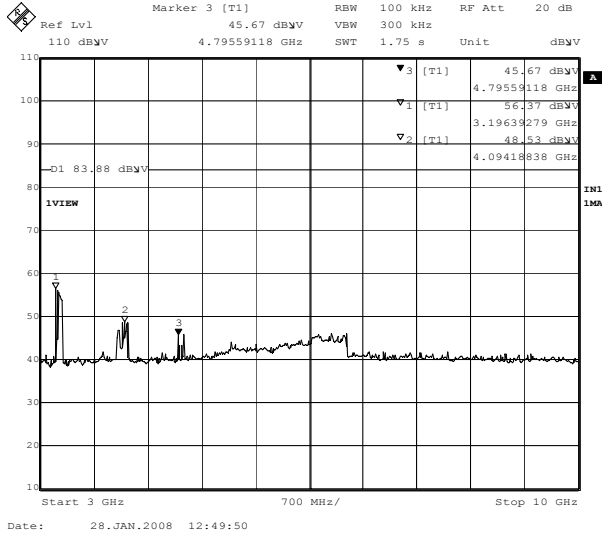


Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

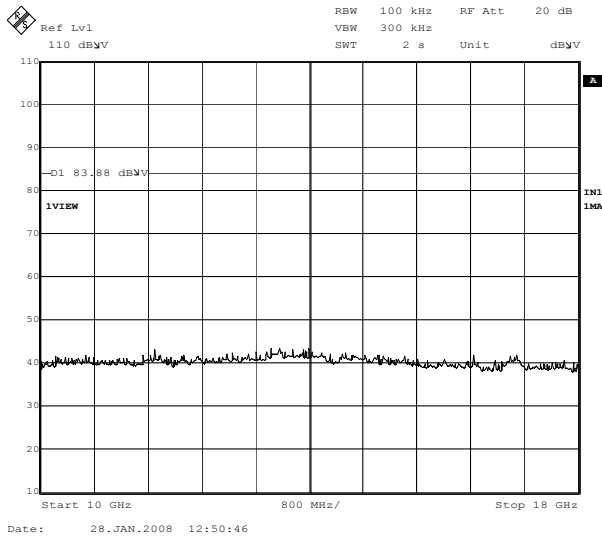
COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP./HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

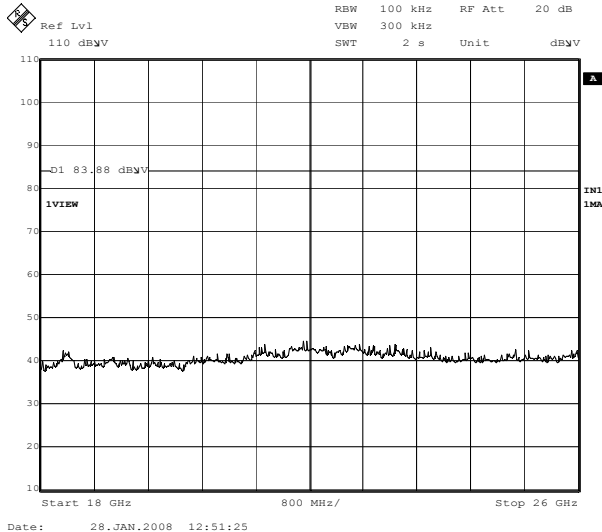
POWER : AC120V/60Hz
 [Transmitting3 DH5]
Hopping
 4.



5.



6.



Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

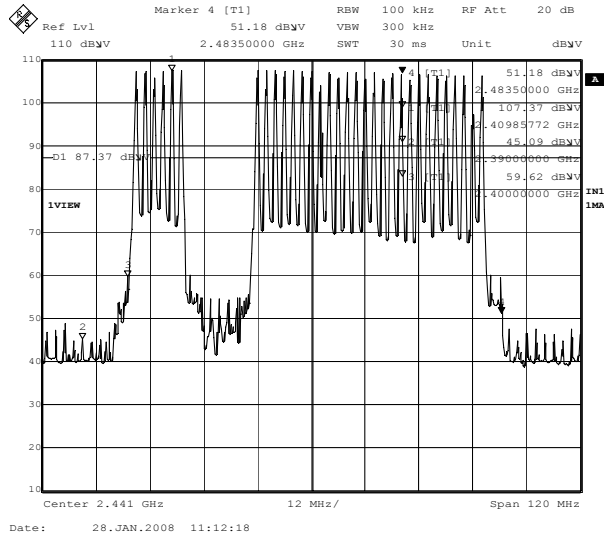
COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP./HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

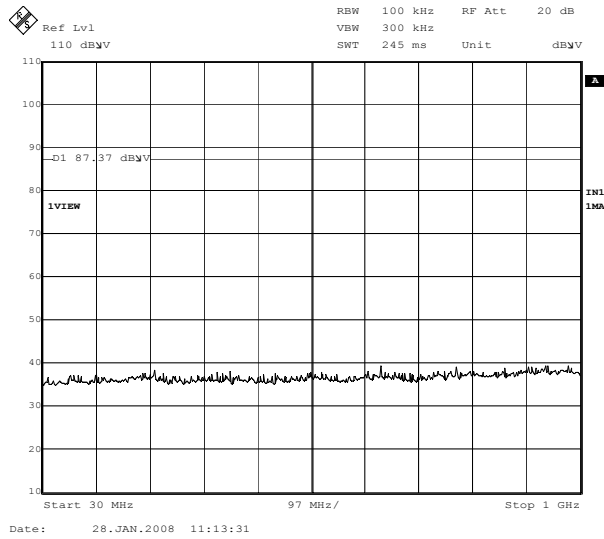
POWER : AC120V/60Hz

[Transmitting]
Inquiry

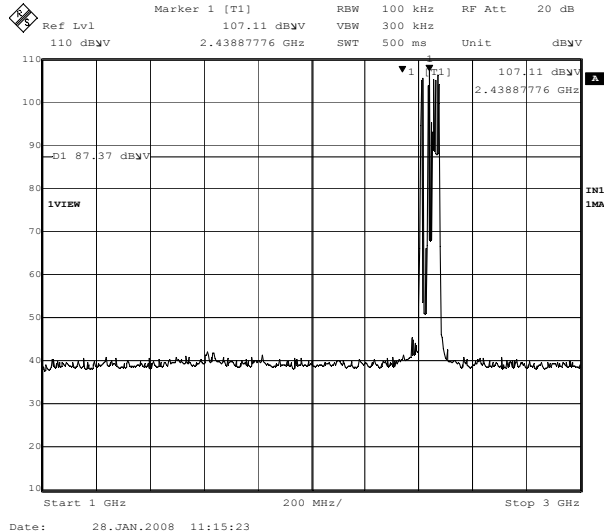
1.



2.



3.



Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

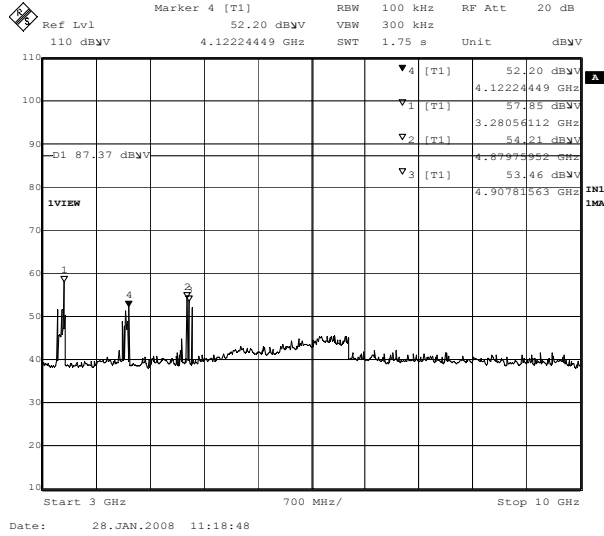
COMPANY : Alps Electric Co., Ltd.
 EQUIPMENT : Photo Printer
 MODEL NUMBER: CZA-10011B
 SERIAL NUMBER: 003

UL Japan, Inc. Yamakita No.4 Shielded Room
 REPORT NO : 28EE0156-YK-01-B
 REGULATION : Fcc Part15SubpartC 247(d)
 DATE : 2008.01.28
 TEMP./HUMI : 22deg.C./40%
 TEST MODE : Transmitting
 ENGINEER : Fumiaki Matsuo

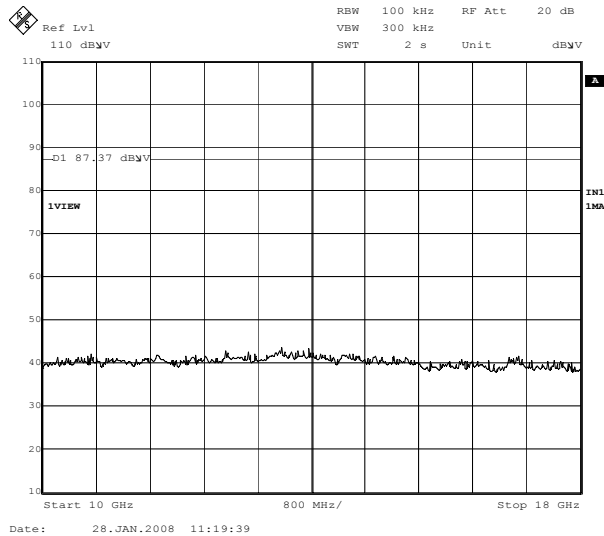
POWER : AC120V/60Hz

[Transmitting]
Inquiry

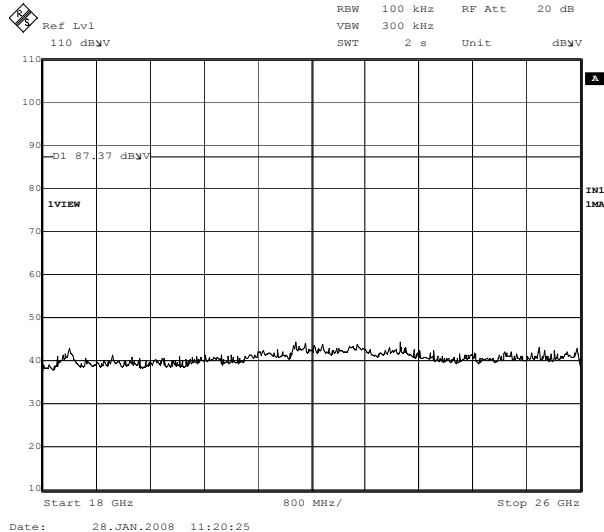
4.



5.



6.



DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting:2402MHz
 Remarks : DH5
 Date : 1/15/2008
 Test Distance : 3 m
 Temperature : 24 °C
 Humidity : 37 %
 Regulation : FCC Part15C § 15. 209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	128.04	BB	36.9	39.9	13.4	28.4	2.3	5.8	30.0	33.0	43.5	13.5	10.5
2.	160.03	BB	28.7	33.1	15.2	28.2	2.7	5.8	24.2	28.6	43.5	19.3	14.9
3.	474.87	BB	36.6	34.9	18.2	28.9	5.5	5.9	37.3	35.6	46.0	8.7	10.4

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz
 ■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-04

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting:2441MHz
 Remarks : DH5
 Date : 1/15/2008
 Test Distance : 3 m
 Temperature : 24 °C
 Humidity : 37 %
 Regulation : FCC Part15C § 15.209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	128.03	BB	36.2	39.0	13.4	28.4	2.3	5.8	29.3	32.1	43.5	14.2	11.4	
2.	160.02	BB	28.7	33.7	15.2	28.2	2.7	5.8	24.2	29.2	43.5	19.3	14.3	
3.	474.85	BB	37.0	35.8	18.2	28.9	5.5	5.9	37.7	36.5	46.0	8.3	9.5	

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz
 ■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-04

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting:2480MHz
 Remarks : DH5
 Date : 1/15/2008
 Test Distance : 3 m
 Temperature : 24 °C
 Humidity : 37 %
 Regulation : FCC Part15C § 15. 209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	128.03	BB	35.1	39.5	13.4	28.4	2.3	5.8	28.2	32.6	43.5	15.3	10.9
2.	160.04	BB	26.3	31.5	15.2	28.2	2.7	5.8	21.8	27.0	43.5	21.7	16.5
3.	474.86	BB	37.6	36.7	18.2	28.9	5.5	5.9	38.3	37.4	46.0	7.7	8.6

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz
 ■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-04

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting:2402MHz
 Remarks : 3-DH5
 Date : 1/15/2008
 Test Distance : 3 m
 Temperature : 24 °C
 Humidity : 37 %
 Regulation : FCC Part15C § 15.209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	128.03	BB	37.8	41.0	13.4	28.4	2.3	5.8	30.9	34.1	43.5	12.6	9.4	
2.	160.05	BB	30.1	33.3	15.2	28.2	2.7	5.8	25.6	28.8	43.5	17.9	14.7	
3.	474.84	BB	36.6	35.0	18.2	28.9	5.5	5.9	37.3	35.7	46.0	8.7	10.3	

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz
 ■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-04

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting:2441MHz
 Remarks : 3-DH5
 Date : 1/15/2008
 Test Distance : 3 m
 Temperature : 24 °C
 Humidity : 37 %
 Regulation : FCC Part15C § 15.209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	128.03	BB	38.1	41.0	13.4	28.4	2.3	5.8	31.2	34.1	43.5	12.3	9.4	
2.	160.05	BB	30.8	33.6	15.2	28.2	2.7	5.8	26.3	29.1	43.5	17.2	14.4	
3.	474.84	BB	36.7	35.1	18.2	28.9	5.5	5.9	37.4	35.8	46.0	8.6	10.2	

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz
 ■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-04

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting:2480MHz
 Remarks : 3-DH5
 Date : 1/15/2008
 Test Distance : 3 m
 Temperature : 24 °C
 Humidity : 37 %
 Regulation : FCC Part15C § 15.209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	128.05	BB	37.7	41.1	13.4	28.4	2.3	5.8	30.8	34.2	43.5	12.7	9.3
2.	160.06	BB	30.2	33.3	15.2	28.2	2.7	5.8	25.7	28.8	43.5	17.8	14.7
3.	474.83	BB	36.7	35.5	18.2	28.9	5.5	5.9	37.4	36.2	46.0	8.6	9.8

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz
 ■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-04

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting: 2402MHz (DH5)
 Remarks : PK (RBW: 1MHz, VBW: 1MHz)
 Date : 1/23/2008
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15. 209 (a) (PK) 1-18GHz: 3m/18-40GHz: 1m
 Engineer : Ichiro Isozaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1602.00	BB	57.7	54.6	26.0	35.9	4.9	0.0	52.7	49.6	74.0	21.3	24.4
2.	2390.00	BB	40.6	41.5	28.5	35.4	5.0	0.0	38.7	39.6	74.0	35.3	34.4
3.	3204.00	BB	45.3	49.0	30.0	34.8	5.2	0.0	45.7	49.4	74.0	28.3	24.6
4.	4804.00	BB	47.6	48.6	32.9	34.1	5.7	0.0	52.1	53.1	74.0	21.9	20.9
5.	7206.00	BB	42.0	43.1	36.5	34.7	7.6	0.0	51.4	52.5	74.0	22.6	21.5
6.	9608.00	BB	42.4	42.9	37.7	35.3	7.7	0.0	52.5	53.0	74.0	21.5	21.0
7.	12010.00	BB	45.2	43.6	40.0	35.0	8.9	0.0	59.1	57.5	74.0	14.9	16.5

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz/KHA-06 (3116) 18-26GHz
 ■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-07 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting:2402MHz (DH5)
 Remarks : AV (RBW:1MHz, VBW:300Hz)
 Date : 1/23/2008
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15.209 (a) 1-18GHz:3m/18-40GHz:1m
 Engineer : Ichiro Isozaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1602.00	BB	55.2	51.8	26.0	35.9	4.9	0.0	50.2	46.8	54.0	3.8	7.2
2.	2390.00	BB	32.5	32.4	28.5	35.4	5.0	0.0	30.6	30.5	54.0	23.4	23.5
3.	3204.00	BB	36.3	42.6	30.0	34.8	5.2	0.0	36.7	43.0	54.0	17.3	11.0
4.	4804.00	BB	40.9	45.3	32.9	34.1	5.7	0.0	45.4	49.8	54.0	8.6	4.2
5.	7206.00	BB	32.3	33.1	36.5	34.7	7.6	0.0	41.7	42.5	54.0	12.3	11.5
6.	9608.00	BB	31.9	31.9	37.7	35.3	7.7	0.0	42.0	42.0	54.0	12.0	12.0
7.	12010.00	BB	33.0	33.0	40.0	35.0	8.9	0.0	46.9	46.9	54.0	7.1	7.1

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA:KHA-01 (SAS-200 571) 1-18GHz/KHA-06 (3116) 18-26GHz
 ■ CABLE:KCC-D3/D7 ■ PREAMP:KAF-07 (8449B) ■ EMI RECEIVER:KTR-01 (ES140)

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting:2441MHz (DH5)
 Remarks : PK (RBW:1MHz, VBW:1MHz)
 Date : 1/23/2008
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15. 209 (a) (PK) 1-18GHz:3m/18-40GHz:1m
 Engineer : Ichiro Isozaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1628.00	BB	57.5	52.7	26.2	35.9	4.9	0.0	52.7	47.9	74.0	21.3	26.1
2.	3256.00	BB	44.8	44.9	30.0	34.8	5.3	0.0	45.3	45.4	74.0	28.7	28.6
3.	4882.00	BB	48.1	46.5	33.1	34.1	5.8	0.0	52.9	51.3	74.0	21.1	22.7
4.	7323.00	BB	43.1	42.2	36.7	34.8	7.7	0.0	52.7	51.8	74.0	21.3	22.2
5.	9764.00	BB	44.7	44.3	37.7	35.4	7.7	0.0	54.7	54.3	74.0	19.3	19.7
6.	12205.00	BB	44.6	43.7	40.2	34.8	9.0	0.0	59.0	58.1	74.0	15.0	15.9

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA:KHA-01 (SAS-200 571) 1-18GHz/KHA-06 (3116) 18-26GHz
 ■ CABLE:KCC-D3/D7 ■ PREAMP:KAF-07 (8449B) ■ EMI RECEIVER:KTR-01 (ES140)

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting:2441MHz (DH5)
 Remarks : AV (RBW:1MHz, VBW:300Hz)
 Date : 1/23/2008
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15. 209 (a) 1-18GHz:3m/18-40GHz:1m

Engineer : Ichiro Isozaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1628.00	BB	55.1	52.5	26.2	35.9	4.9	0.0	50.3	47.7	54.0	3.7	6.3
2.	3256.00	BB	33.5	36.7	30.0	34.8	5.3	0.0	34.0	37.2	54.0	20.0	16.8
3.	4882.00	BB	40.7	41.1	33.1	34.1	5.8	0.0	45.5	45.9	54.0	8.5	8.1
4.	7323.00	BB	32.0	32.0	36.7	34.8	7.7	0.0	41.6	41.6	54.0	12.4	12.4
5.	9764.00	BB	33.3	33.4	37.7	35.4	7.7	0.0	43.3	43.4	54.0	10.7	10.6
6.	12205.00	BB	33.1	33.1	40.2	34.8	9.0	0.0	47.5	47.5	54.0	6.5	6.5

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA:KHA-01 (SAS-200 571) 1-18GHz/KHA-06 (3116) 18-26GHz
 ■ CABLE:KCC-D3/D7 ■ PREAMP:KAF-07 (8449B) ■ EMI RECEIVER:KTR-01 (ES140)

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting: 2480MHz (DH5)
 Remarks : PK (RBW: 1MHz, VBW: 1MHz)
 Date : 1/23/2008
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15. 209 (a) (PK) 1-18GHz: 3m/18-40GHz: 1m
 Engineer : Ichiro Isozaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1654.00	BB	54.2	56.0	26.5	35.9	4.9	0.0	49.7	51.5	74.0	24.3	22.5
2.	2483.50	BB	46.6	48.0	28.3	35.3	5.1	0.0	44.7	46.1	74.0	29.3	27.9
3.	3308.00	BB	43.5	43.5	30.0	34.7	5.3	0.0	44.1	44.1	74.0	29.9	29.9
4.	4960.00	BB	48.3	48.5	33.4	34.1	5.8	0.0	53.4	53.6	74.0	20.6	20.4
5.	7440.00	BB	42.1	42.7	36.8	34.8	7.9	0.0	52.0	52.6	74.0	22.0	21.4
6.	9920.00	BB	43.7	43.9	37.7	35.4	7.7	0.0	53.7	53.9	74.0	20.3	20.1
7.	12400.00	BB	43.2	45.8	40.3	34.6	9.1	0.0	58.0	60.6	74.0	16.0	13.4

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz/KHA-06 (3116) 18-26GHz
 ■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-07 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting:2480MHz (DH5)
 Remarks : AV (RBW:1MHz, VBW:300Hz)
 Date : 1/23/2008
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15.209 (a) 1-18GHz:3m/18-40GHz:1m
 Engineer : Ichiro Isozaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1654.00	BB	52.2	51.4	26.5	35.9	4.9	0.0	47.7	46.9	54.0	6.3	7.1
2.	2483.50	BB	34.5	39.0	28.3	35.3	5.1	0.0	32.6	37.1	54.0	21.4	16.9
3.	3308.00	BB	34.1	34.4	30.0	34.7	5.3	0.0	34.7	35.0	54.0	19.3	19.0
4.	4960.00	BB	41.6	43.5	33.4	34.1	5.8	0.0	46.7	48.6	54.0	7.3	5.4
5.	7440.00	BB	32.0	32.0	36.8	34.8	7.9	0.0	41.9	41.9	54.0	12.1	12.1
6.	9920.00	BB	32.9	33.2	37.7	35.4	7.7	0.0	42.9	43.2	54.0	11.1	10.8
7.	12400.00	BB	33.1	34.1	40.3	34.6	9.1	0.0	47.9	48.9	54.0	6.1	5.1

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA:KHA-01 (SAS-200 571) 1-18GHz/KHA-06 (3116) 18-26GHz
 ■ CABLE:KCC-D3/D7 ■ PREAMP:KAF-07 (8449B) ■ EMI RECEIVER:KTR-01 (ES140)

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting: 2402MHz (3DH5)
 Remarks : PK (RBW: 1MHz, VBW: 1MHz)
 Date : 1/23/2008
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15. 209 (a) (PK) 1-18GHz: 3m/18-40GHz: 1m
 Engineer : Ichiro Isozaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1602.00	BB	58.8	58.3	26.0	35.9	4.9	0.0	53.8	53.3	74.0	20.2	20.7
2.	2390.00	BB	43.6	44.0	28.5	35.4	5.0	0.0	41.7	42.1	74.0	32.3	31.9
3.	3204.00	BB	45.6	45.8	30.0	34.8	5.2	0.0	46.0	46.2	74.0	28.0	27.8
4.	4804.00	BB	44.0	44.0	32.9	34.1	5.7	0.0	48.5	48.5	74.0	25.5	25.5
5.	7206.00	BB	43.8	42.4	36.5	34.7	7.6	0.0	53.2	51.8	74.0	20.8	22.2
6.	9608.00	BB	43.1	44.5	37.7	35.3	7.7	0.0	53.2	54.6	74.0	20.8	19.4
7.	12010.00	BB	43.8	45.0	40.0	35.0	8.9	0.0	57.7	58.9	74.0	16.3	15.1

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz/KHA-06 (3116) 18-26GHz
 ■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-07 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting:2402MHz (3DH5)
 Remarks : AV (RBW:1MHz, VBW:300Hz)
 Date : 1/23/2008
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15. 209 (a) 1-18GHz:3m/18-40GHz:1m
 Engineer : Ichiro Isozaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1602.00	BB	56.4	55.6	26.0	35.9	4.9	0.0	51.4	50.6	54.0	2.6	3.4
2.	2390.00	BB	33.0	33.1	28.5	35.4	5.0	0.0	31.1	31.2	54.0	22.9	22.8
3.	3204.00	BB	34.3	37.1	30.0	34.8	5.2	0.0	34.7	37.5	54.0	19.3	16.5
4.	4804.00	BB	33.4	33.9	32.9	34.1	5.7	0.0	37.9	38.4	54.0	16.1	15.6
5.	7206.00	BB	32.2	32.5	36.5	34.7	7.6	0.0	41.6	41.9	54.0	12.4	12.1
6.	9608.00	BB	33.3	33.2	37.7	35.3	7.7	0.0	43.4	43.3	54.0	10.6	10.7
7.	12010.00	BB	32.9	33.1	40.0	35.0	8.9	0.0	46.8	47.0	54.0	7.2	7.0

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA:KHA-01 (SAS-200 571) 1-18GHz/KHA-06 (3116) 18-26GHz
 ■ CABLE:KCC-D3/D7 ■ PREAMP:KAF-07 (8449B) ■ EMI RECEIVER:KTR-01 (ES140)

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting:2441MHz (3DH5)
 Remarks : PK (RBW:1MHz, VBW:1MHz)
 Date : 1/23/2008
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15. 209 (a) (PK) 1-18GHz:3m/18-40GHz:1m
 Engineer : Ichiro Isozaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1628.00	BB	56.5	53.6	26.2	35.9	4.9	0.0	51.7	48.8	74.0	22.3	25.2
2.	3256.00	BB	45.0	45.5	30.0	34.8	5.3	0.0	45.5	46.0	74.0	28.5	28.0
3.	4882.00	BB	43.4	43.4	33.1	34.1	5.8	0.0	48.2	48.2	74.0	25.8	25.8
4.	7323.00	BB	43.5	44.1	36.7	34.8	7.7	0.0	53.1	53.7	74.0	20.9	20.3
5.	9764.00	BB	43.5	43.3	37.7	35.4	7.7	0.0	53.5	53.3	74.0	20.5	20.7
6.	12205.00	BB	44.0	44.3	40.2	34.8	9.0	0.0	58.4	58.7	74.0	15.6	15.3

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA:KHA-01 (SAS-200 571) 1-18GHz/KHA-06 (3116) 18-26GHz
 ■ CABLE:KCC-D3/D7 ■ PREAMP:KAF-07 (8449B) ■ EMI RECEIVER:KTR-01 (ES140)

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting:2441MHz (3DH5)
 Remarks : AV (RBW:1MHz, VBW:300Hz)
 Date : 1/23/2008
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15. 209 (a) 1-18GHz:3m/18-40GHz:1m
 Engineer : Ichiro Isozaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	1628.00	BB	52.8	49.3	26.2	35.9	4.9	0.0	48.0	44.5	54.0	6.0	9.5	
2.	3256.00	BB	34.5	36.4	30.0	34.8	5.3	0.0	35.0	36.9	54.0	19.0	17.1	
3.	4882.00	BB	32.4	32.4	33.1	34.1	5.8	0.0	37.2	37.2	54.0	16.8	16.8	
4.	7323.00	BB	32.1	32.1	36.7	34.8	7.7	0.0	41.7	41.7	54.0	12.3	12.3	
5.	9764.00	BB	33.4	33.3	37.7	35.4	7.7	0.0	43.4	43.3	54.0	10.6	10.7	
6.	12205.00	BB	33.3	33.2	40.2	34.8	9.0	0.0	47.7	47.6	54.0	6.3	6.4	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA:KHA-01 (SAS-200 571) 1-18GHz/KHA-06 (3116) 18-26GHz
 ■ CABLE:KCC-D3/D7 ■ PREAMP:KAF-07 (8449B) ■ EMI RECEIVER:KTR-01 (ES140)

DATA OF RADIATION TEST

UL Japan, Inc.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting: 2480MHz (3DH5)
 Remarks : PK (RBW: 1MHz, VBW: 1MHz)
 Date : 1/23/2008
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15. 209 (a) (PK) 1-18GHz: 3m/18-40GHz: 1m
Engineer : Ichiro Isozaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1654.00	BB	60.4	58.5	26.5	35.9	4.9	0.0	55.9	54.0	74.0	18.1	20.0
2.	2483.50	BB	51.3	53.9	28.3	35.3	5.1	0.0	49.4	52.0	74.0	24.6	22.0
3.	3308.00	BB	44.5	45.4	30.0	34.7	5.3	0.0	45.1	46.0	74.0	28.9	28.0
4.	4960.00	BB	42.7	42.6	33.4	34.1	5.8	0.0	47.8	47.7	74.0	26.2	26.3
5.	7440.00	BB	43.0	41.9	36.8	34.8	7.9	0.0	52.9	51.8	74.0	21.1	22.2
6.	9920.00	BB	43.6	43.8	37.7	35.4	7.7	0.0	53.6	53.8	74.0	20.4	20.2
7.	12400.00	BB	43.4	43.4	40.3	34.6	9.1	0.0	58.2	58.2	74.0	15.8	15.8

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz/KHA-06 (3116) 18-26GHz

■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-07 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Japan, Inc.
YAMAKITA No.1 ANECHOIC CHAMBER
Report No. : 28EE0156-YK-01-B

Applicant : ALPS ELECTRIC CO., LTD
 Kind of Equipment : Photo Printer
 Model No. : CZA-10011B
 Serial No. : 004
 Power : AC120V/60Hz
 Mode : Transmitting: 2480MHz (3DH5)
 Remarks : AV (RBW: 1MHz, VBW: 300Hz)
 Date : 1/23/2008
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15. 209 (a) 1-18GHz: 3m/18-40GHz: 1m
 Engineer : Ichiro Isozaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	1654.00	BB	57.7	55.3	26.5	35.9	4.9	0.0	53.2	50.8	54.0	0.8	3.2	
2.	2483.50	BB	38.9	42.1	28.3	35.3	5.1	0.0	37.0	40.2	54.0	17.0	13.8	
3.	3308.00	BB	33.8	35.5	30.0	34.7	5.3	0.0	34.4	36.1	54.0	19.6	17.9	
4.	4960.00	BB	31.8	31.8	33.4	34.1	5.8	0.0	36.9	36.9	54.0	17.1	17.1	
5.	7440.00	BB	31.9	32.0	36.8	34.8	7.9	0.0	41.8	41.9	54.0	12.2	12.1	
6.	9920.00	BB	33.0	33.1	37.7	35.4	7.7	0.0	43.0	43.1	54.0	11.0	10.9	
7.	12400.00	BB	33.1	33.1	40.3	34.6	9.1	0.0	47.9	47.9	54.0	6.1	6.1	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

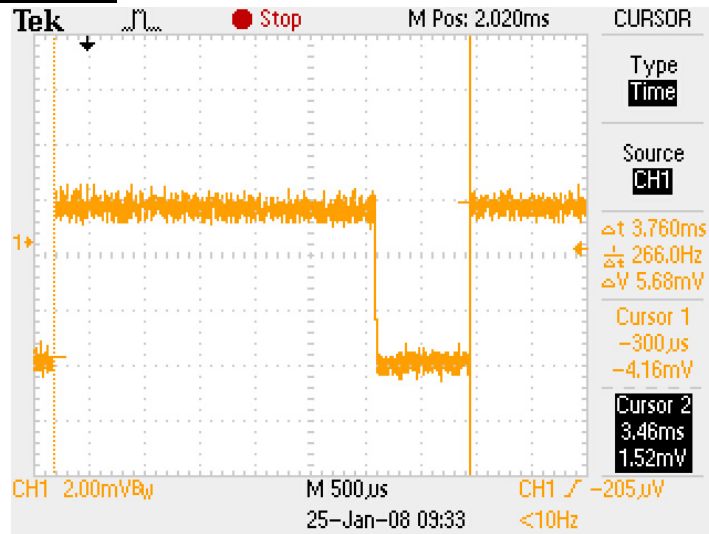
■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz/KHA-06 (3116) 18-26GHz
 ■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-07 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

Duty Cycle

COMPANY : ALPS ELECTRIC CO., LTD.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003
POWER : AC120V/60Hz

REPORT NO : 28EE0156-YK-01-B
DATE : 2008/01/25
TEMP./HUMI : 22deg.C./32%
TEST MODE : Tx2402MHz
ENGINEER : Makoto Hosaka

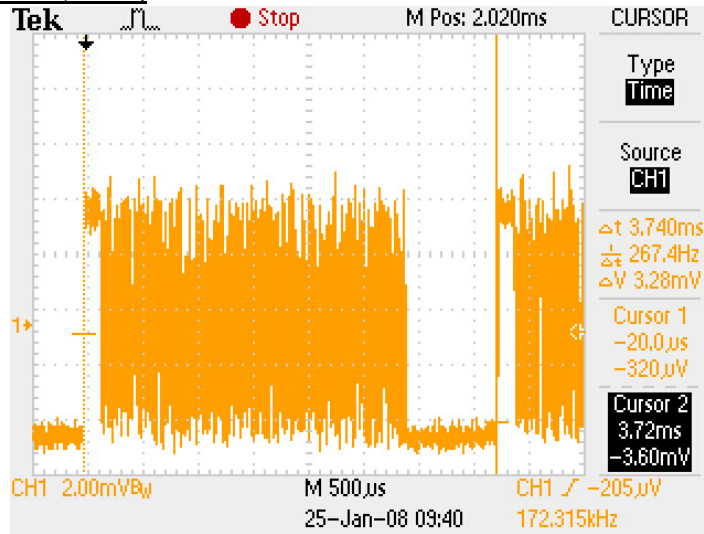
Transmitting (2402MHz, DH5)



Duty Cycle: 3.76ms

AV Detector VBW: $1 / 3.76\text{ms} = 265.96\text{Hz} \rightarrow 300\text{Hz}$

Transmitting (2402MHz, 3DH5)



Duty Cycle: 3.74ms

AV Detector VBW: $1 / 3.74\text{ms} = 267.38\text{Hz} \rightarrow 300\text{Hz}$

* Duty cycle was within 100msec.

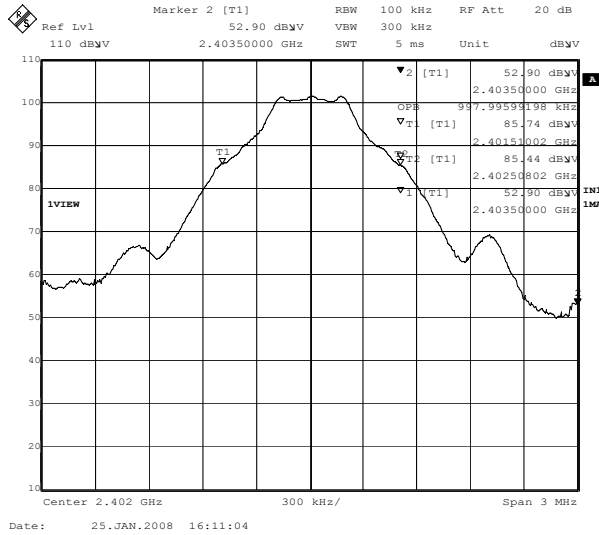
Occupied Bandwidth(99%)

COMPANY : ALPS ELECTRIC CO., LTD.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003
POWER : AC120V/60Hz

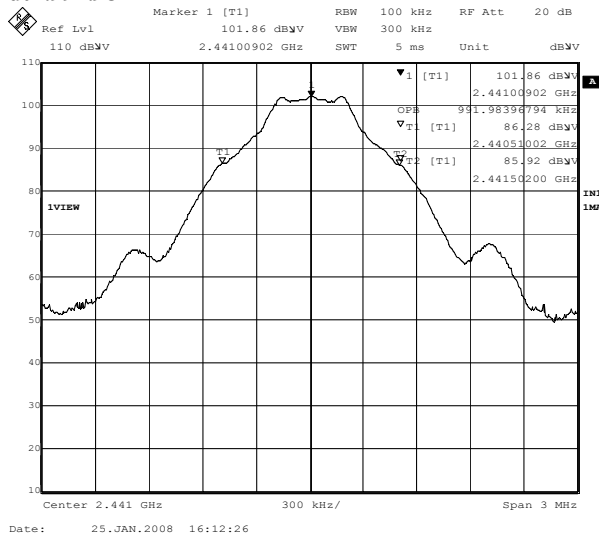
UL Japan, Inc. Yamakita No.1 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : RSS-210
DATE : 2008.01.25
TEMP./HUMI : 22deg.C./32%
TEST MODE : Transmitting
ENGINEER : Makoto Hosaka

[Hopping off, DH5]

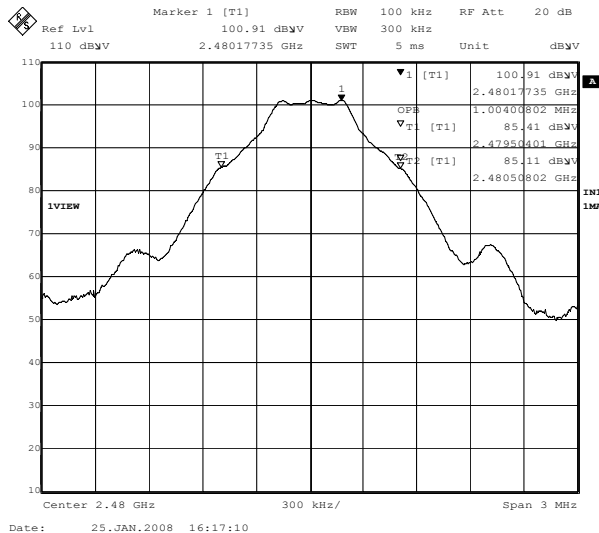
1. ch : 2402MHz/Occupied Bandwidth:998.00kHz



2. ch : 2441MHz/Occupied Bandwidth:991.98kHz



3. ch : 2480MHz/Occupied Bandwidth:1.0040MHz



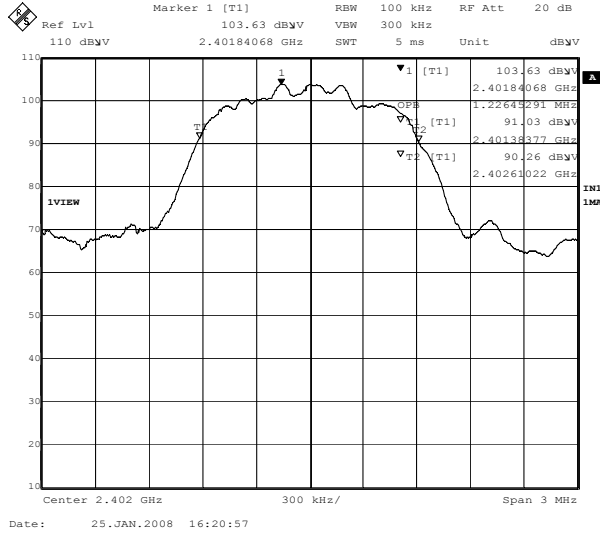
Occupied Bandwidth(99%)

COMPANY : ALPS ELECTRIC CO., LTD.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003
POWER : AC120V/60Hz

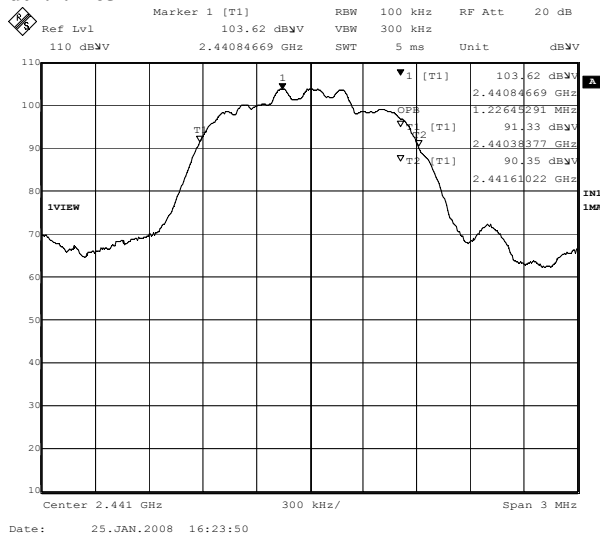
UL Japan, Inc. Yamakita No.1 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : RSS-210
DATE : 2008.01.25
TEMP./HUMI : 22deg.C./32%
TEST MODE : Transmitting
ENGINEER : Makoto Hosaka

[Hopping off, 3DH5]

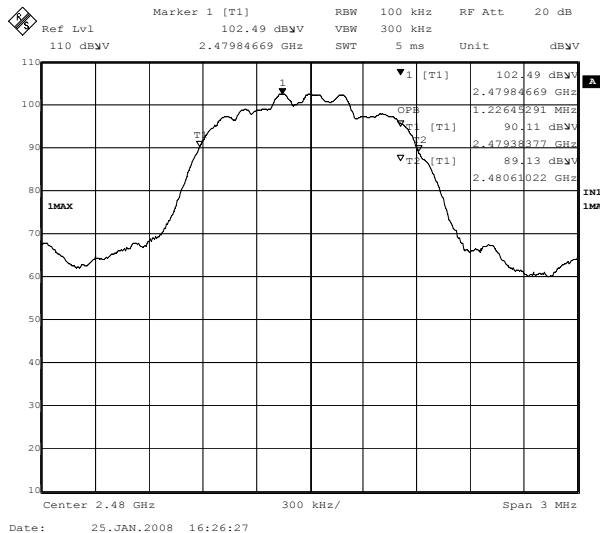
4. ch : 2402MHz/Occupied Bandwidth:1.2265MHz



5. ch : 2441MHz/Occupied Bandwidth:1.2265MHz



6. ch : 2480MHz/Occupied Bandwidth:1.2265MHz

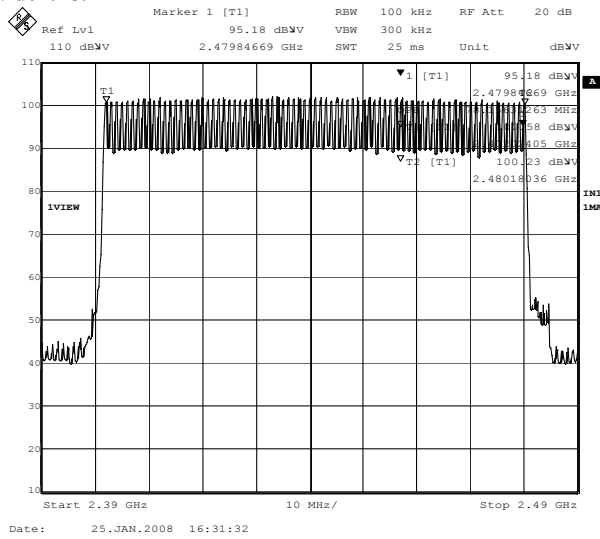


Occupied Bandwidth(99%)

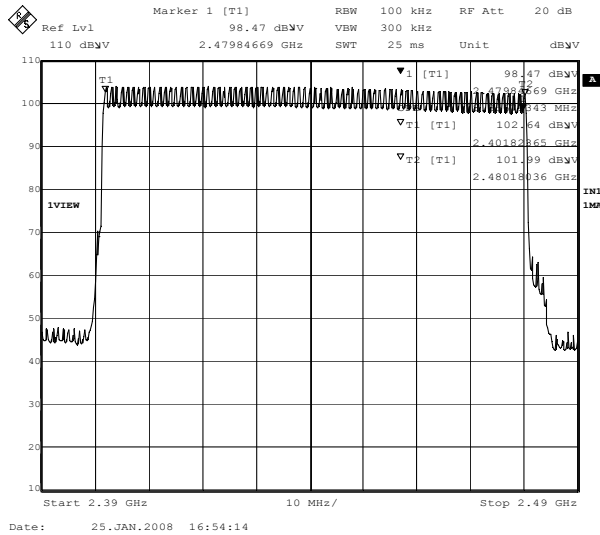
COMPANY : ALPS ELECTRIC CO., LTD.
EQUIPMENT : Photo Printer
MODEL NUMBER: CZA-10011B
SERIAL NUMBER: 003
POWER : AC120V/60Hz

UL Japan, Inc. Yamakita No.1 Shielded Room
REPORT NO : 28EE0156-YK-01-B
REGULATION : RSS-210
DATE : 2008.01.25
TEMP./HUMI : 22deg.C./32%
TEST MODE : Transmitting
ENGINEER : Makoto Hosaka

7. Hopping, DH5/Occupied Bandwidth:78.2MHz



8. Hopping, 3DH5/Occupied Bandwidth:78.4MHz



APPENDIX 3 Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
YA-CE	Conducted emission(software)	UL Japan	CE(Ver.1.6)	CE	-
YA-RE	Radiated emission(software)	UL Japan	RE(Ver.1.5)	RE	-
KCC-14/15/16 /18/KPL-01/K RM-01	Coaxial Cable/Pulse Limiter/RF Relay Matrix	Fujikura/Suhner/PMM/TSJ	5D-2W/8D-2W/S04272B/S04272B/PL01/-	CE	2007/05/15 * 12
KLS-02	LISN(AMN)	Schwarzbeck	NSLK8127	CE	2007/08/02 * 12
KSA-05	Spectrum Analyzer	Advantest	R3365	CE	2007/06/23 * 12
KTR-02	Test Receiver	Rohde & Schwarz	ESCS30	CE	2007/09/05 * 12
KOS-04	Humidity Indicator	SATO	PC-5000TRH	CE	2006/07/14 * 24
KJM-03	Measure	TAJIMA	GL19-55	CE	-
KAEC-01	Anechoic Chamber	JSE	Semi 3m	RE	2007/08/26 * 12
KAF-05	Pre Amplifier	Agilent	8447D	RE	2007/04/13 * 12
KAT6-01	Attenuator	INMET	18N-6dB	RE	2007/03/28 * 12
KBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2007/12/27 * 12
KCC-30/31/32 /34/KRM-03	Coaxial Cable/RF Relay Matrix	Fujikura/Suhner/TSJ	5D-2W/S04272B/RFM-E421	RE	2007/11/01 * 12
KLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2007/12/27 * 12
KOS-02	Humidity Indicator	Custom	CTH-190	RE	2006/07/10 * 24
KSA-04	Spectrum Analyzer	Advantest	R3271A	RE	2007/09/25 * 12
KTR-04	Test Receiver	Rohde & Schwarz	ESVS10	RE	2007/10/30 * 12
KJM-01	Measure	TAJIMA	GL19-55	RE	-
KTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE, AT1,2,3,4,6	2007/04/12 * 12
KCC-D3/D7	Coaxial Cable	Rosenberger/Advantest	2201/JUN-08-01-061	RE	2007/04/11 * 12
KAF-07	Pre Amplifier	Hewlett Packard	8449B	RE	2007/12/10 * 12
KHA-01	Horn Antenna	A.H.Systems	SAS-200/571	RE	2007/08/14 * 12
KHA-06	Horn Antenna	ETS LINDGREN	3116	RE	2007/08/16 * 12
KCC-D7	Coaxial Cable	Advantest	A01002	AT all	2007/04/11 * 12
KPM-05	Power meter	Agilent	E4417A	AT5	2007/04/03 * 12
KPSS-01	Power sensor	Agilent	E9327A	AT5	2007/03/13 * 12
KOSC-01	Oscilloscope	Tektronix	TDS-2022B	AT4	2007/05/15 * 12
KDT-01	Coaxial Crystal Detector	Agilent	8473C	AT4	Pre Check
KOS-07	Humidity Indicator	Custom	CTH-190	AT all	2006/10/06 * 24

The expiration date of the calibration is the end of the expired month .

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

Test Item :

- RE: Out of Band Emission (Radiated)
- AT: Antenna terminal conducted test
 - 1: Carrier Frequency Separation
 - 2: Bandwidth
 - 3: Number of Hopping Frequency
 - 4: Dwell time
 - 5: Maximum Peak Output Power
 - 6: Out of Band Emission (Conducted)