

Data of Conducted Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Shielded room
Report No. : 30DE0120-YK-A

Applicant : Sony EMCS Corporation Kisarazu TEC
 Type of Equipment : Digital Stereo Transmitter
 Model No. : TMR-RF4000
 Serial No. : 1
 Power : DC5.2V (AC120V/60Hz)
 Mode : Transmitting(2476MHz)
 Remarks : -
 Date : 11/24/2009
 Phase : Single Phase
 Temperature : 22 °C
 Humidity : 45 %
 Limit : FCC Part15C § 15.207. (CISPR Pub. 22)

Engineer : Minoru Nakatake

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.	0.1500	41.7	-	42.0	-	0.3	0.2	0.0	42.5	-	66.0	56.0	23.5	-
2.	0.2029	41.5	28.2	44.2	35.7	0.3	0.3	0.0	44.8	36.3	63.5	53.5	18.7	17.2
3.	0.2708	33.7	-	34.4	-	0.3	0.3	0.0	35.0	-	61.1	51.1	26.1	-
4.	0.3383	33.9	-	37.0	-	0.3	0.3	0.0	37.6	-	59.2	49.2	21.6	-
5.	0.4071	24.3	-	27.8	-	0.3	0.3	0.0	28.4	-	57.7	47.7	29.3	-
6.	29.9633	33.8	-	35.9	-	1.0	2.1	0.0	39.0	-	60.0	50.0	21.0	-

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

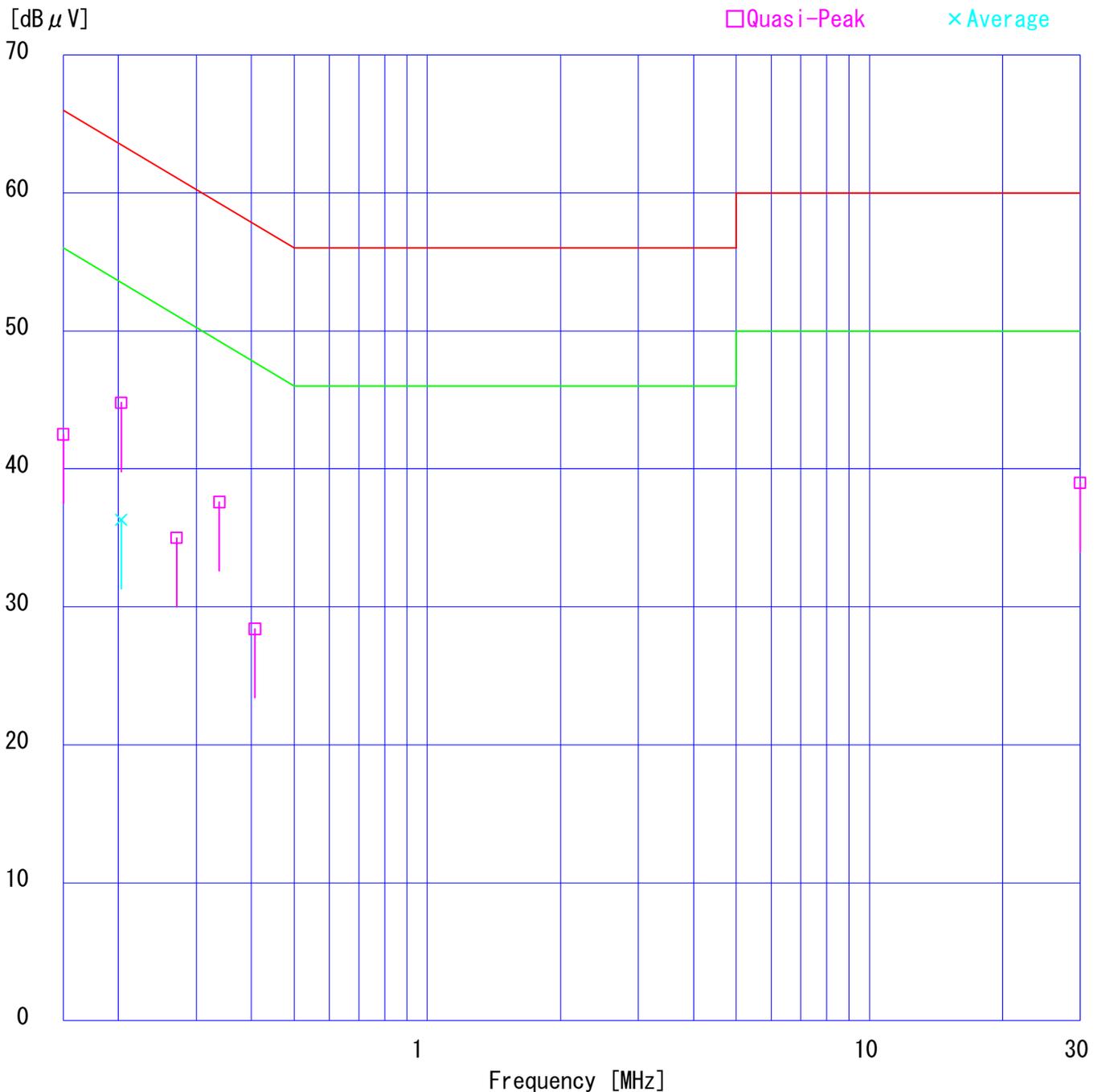
■ LISN:KLS-01 ■ COAXIAL CABLE:KCC-14/15/16/18
 ■ PULSE LIMITTER:KPL-01 ■ EMI RECEIVER:KTR-02

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Engineer : Minoru Nakatake



Data of Conducted Disturbance Test

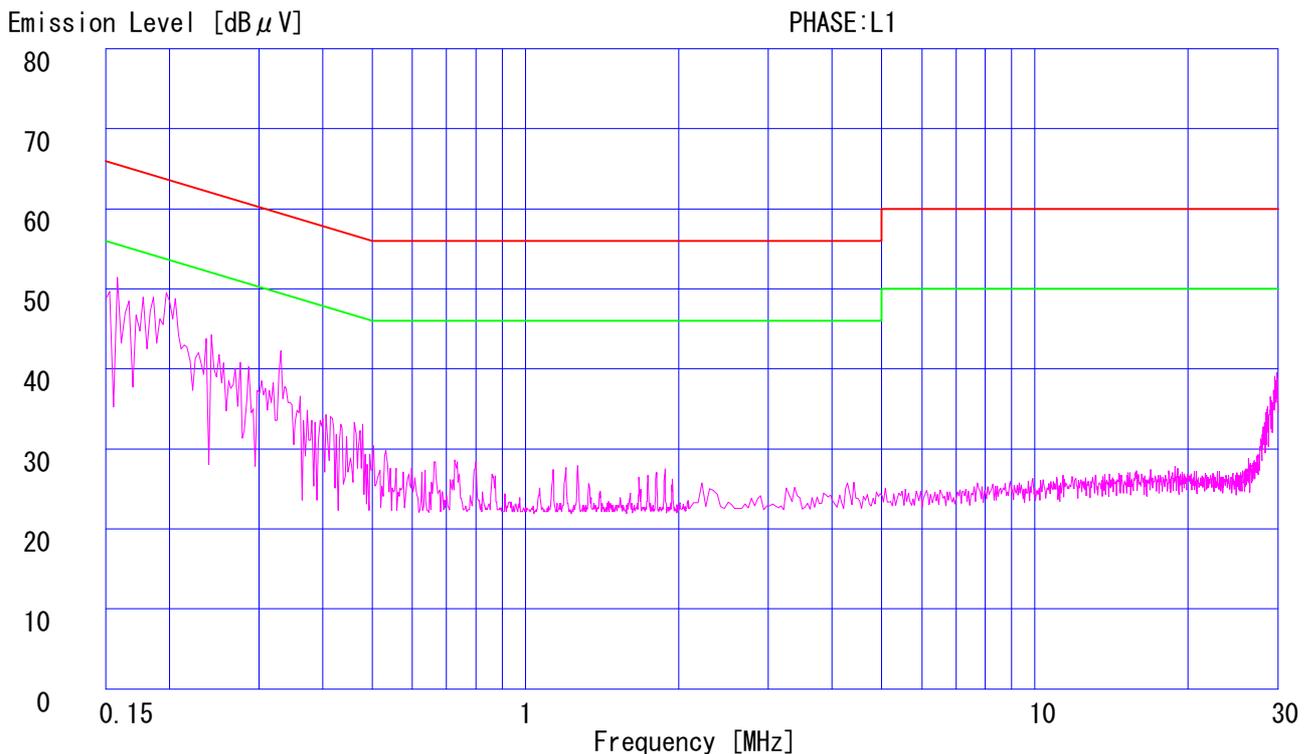
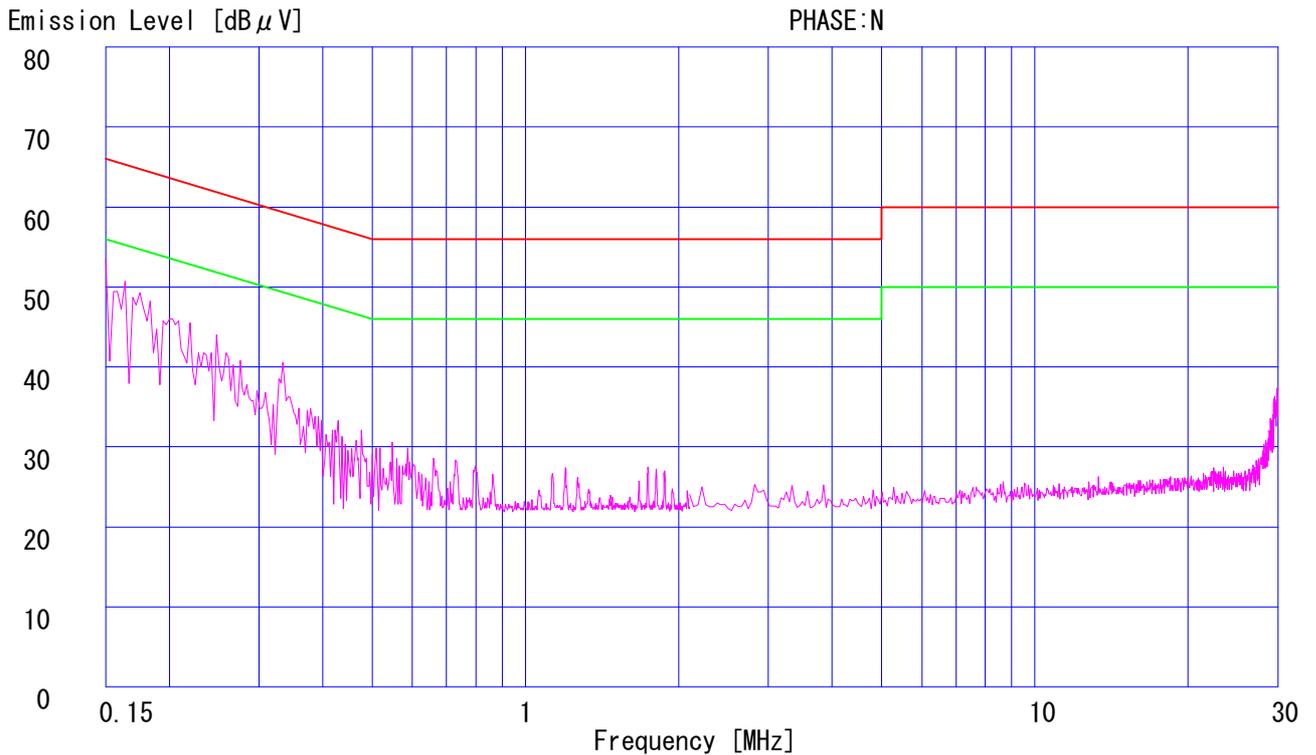
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Remarks : -
Date : 11/24/2009
Phase : Single Phase
Temperature : 22 °C
Humidity : 45 %
Limit 1 : FCC Part15C § 15.207. (CISPR Pub.22)
Limit 2 : None

Engineer : Minoru Nakatake



Data of Conducted Disturbance Test

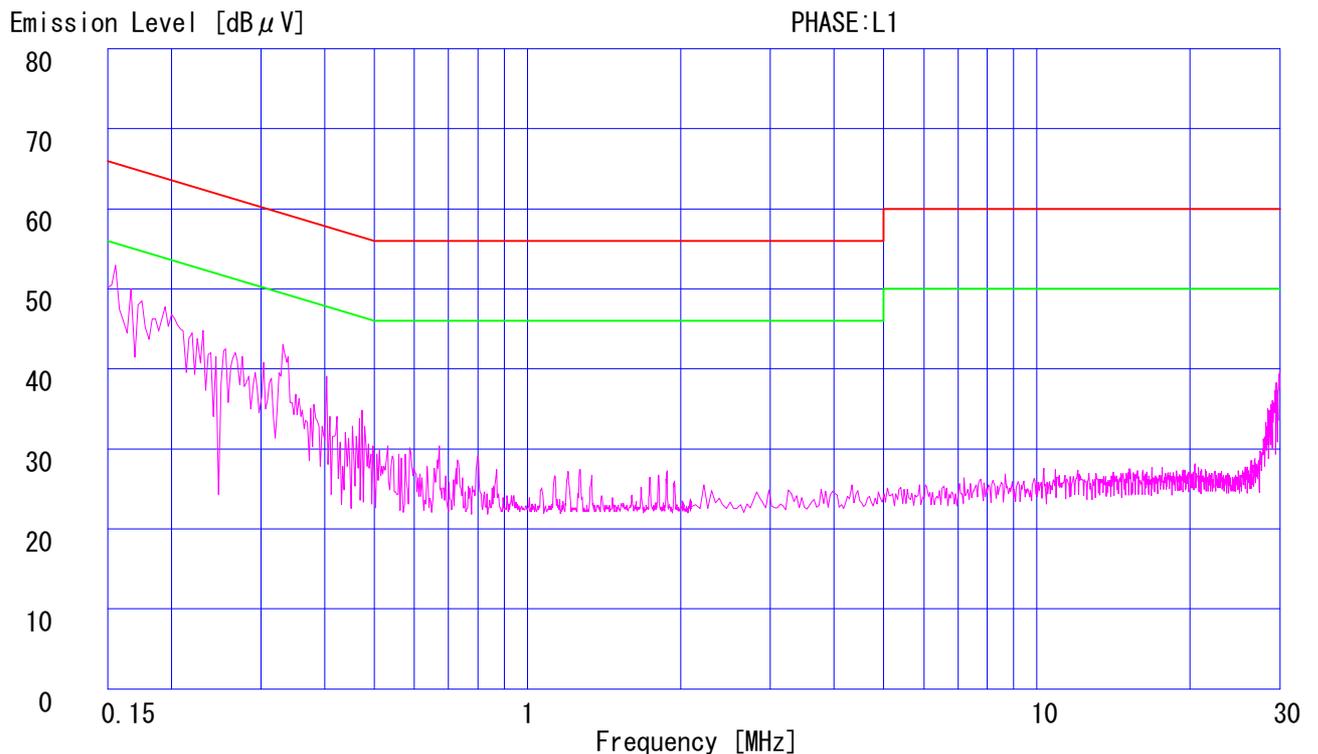
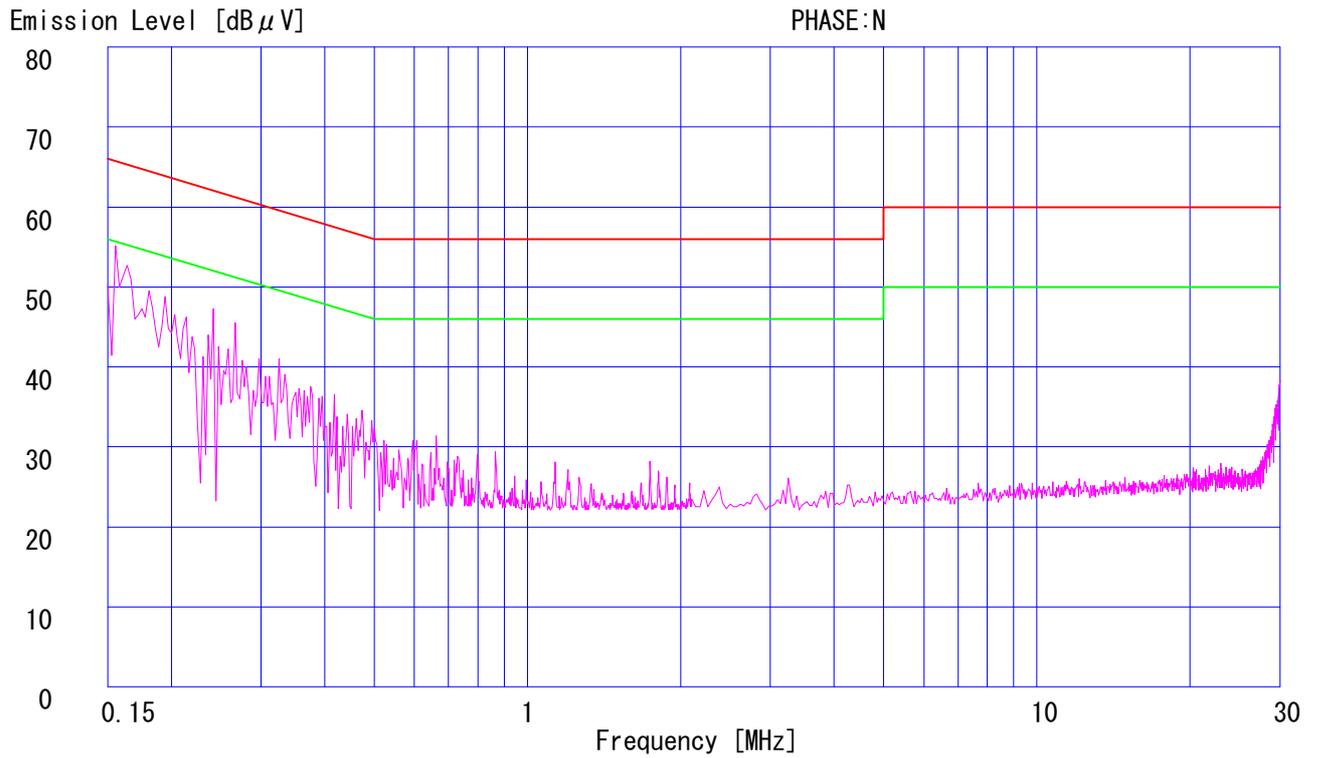
UL Japan, Inc.

YAMAKITA No.1 Shielded room

Report No. : 30DE0120-YK-A

Applicant : Sony EMCS Corporation Kisarazu TEC
Type of Equipment : Digital Stereo Transmitter
Model No. : TMR-RF4000
Serial No. : 1
Power : DC5.2V (AC120V/60Hz)
Mode : Transmitting(2404MHz)
Remarks : -
Date : 11/24/2009
Phase : Single Phase
Temperature : 22 °C
Humidity : 45 %
Limit 1 : FCC Part15C § 15.207. (CISPR Pub.22)
Limit 2 : None

Engineer : Minoru Nakatake



Data of Conducted Disturbance Test

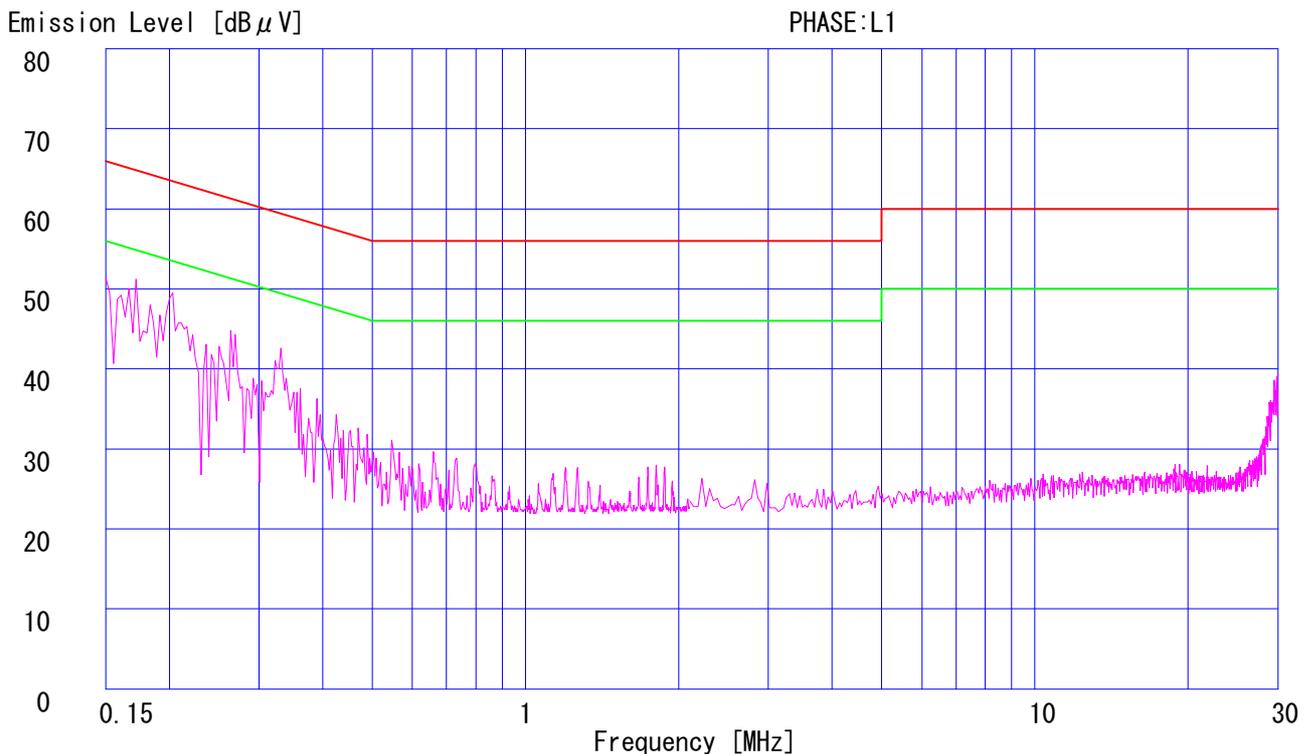
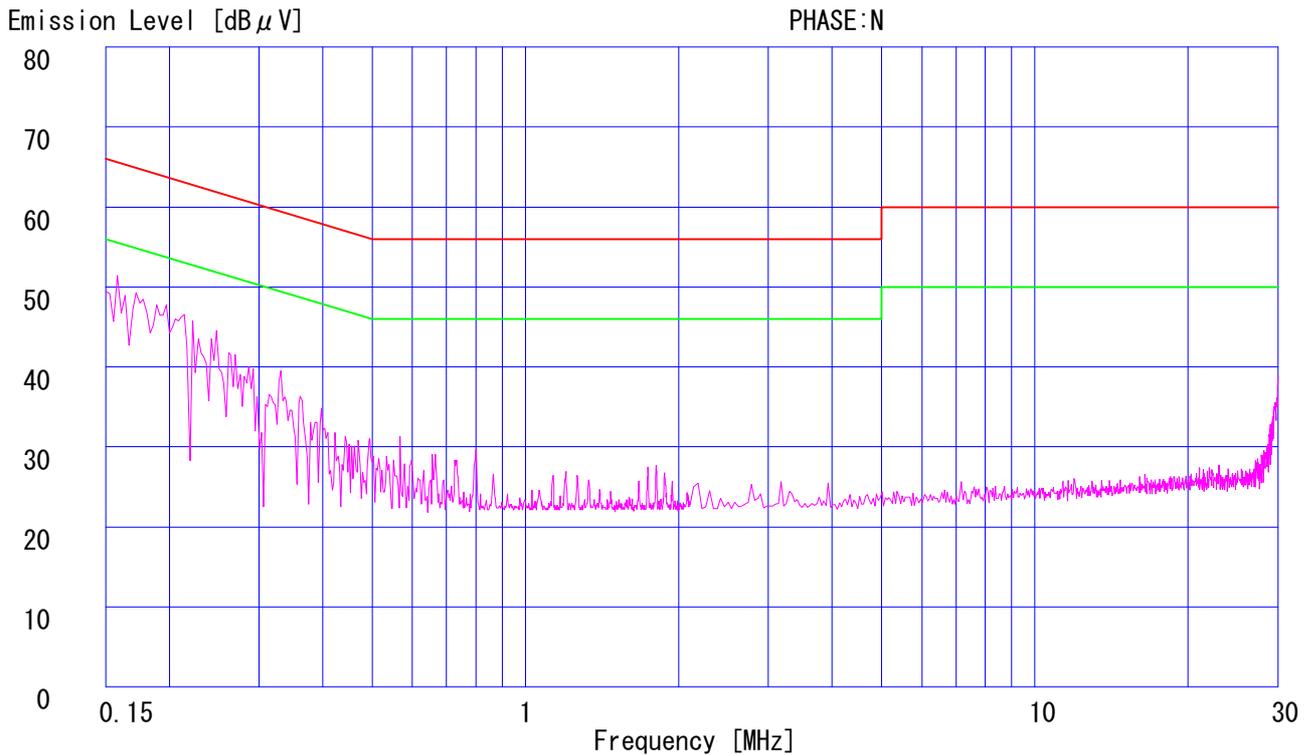
UL Japan, Inc.

YAMAKITA No.1 Shielded room

Report No. : 30DE0120-YK-A

Applicant : Sony EMCS Corporation Kisarazu TEC
Type of Equipment : Digital Stereo Transmitter
Model No. : TMR-RF4000
Serial No. : 1
Power : DC5.2V (AC120V/60Hz)
Mode : Transmitting(2440MHz)
Remarks : -
Date : 11/24/2009
Phase : Single Phase
Temperature : 22 °C
Humidity : 45 %
Limit 1 : FCC Part15C § 15.207. (CISPR Pub.22)
Limit 2 : None

Engineer : Minoru Nakatake

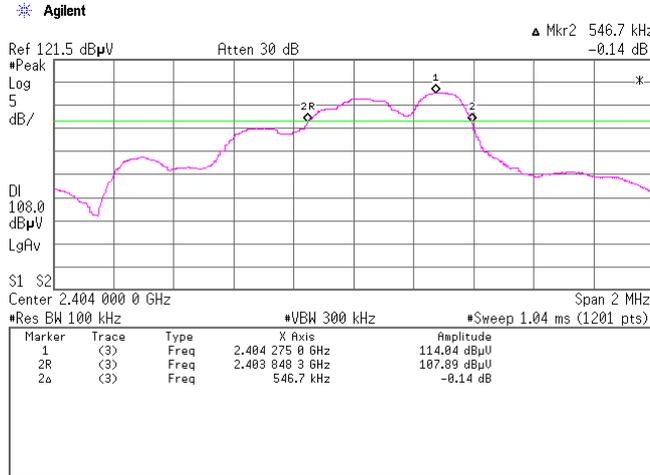


6dB Bandwidth (Regulation: FCC 15.247(a)(2))

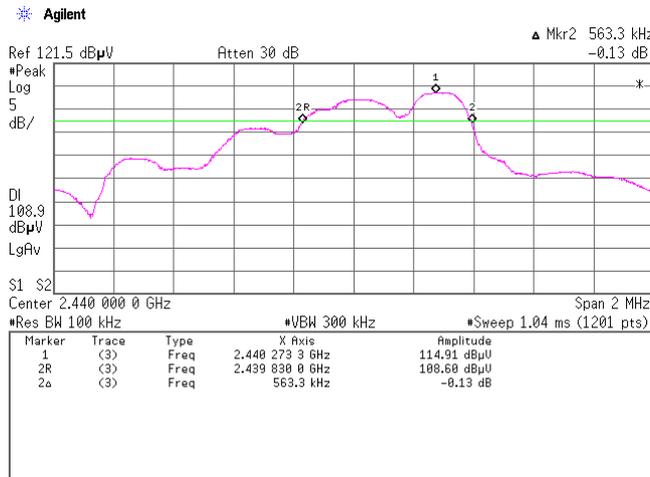
UL Japan, Inc. Yamakita EMC lab.
Date:
Temp./Humid.:
Engineer:
Test mode:

No.2 shielded room
2009.11.20
22 deg. C. / 38 %
Minoru Nakatake
Transmitting

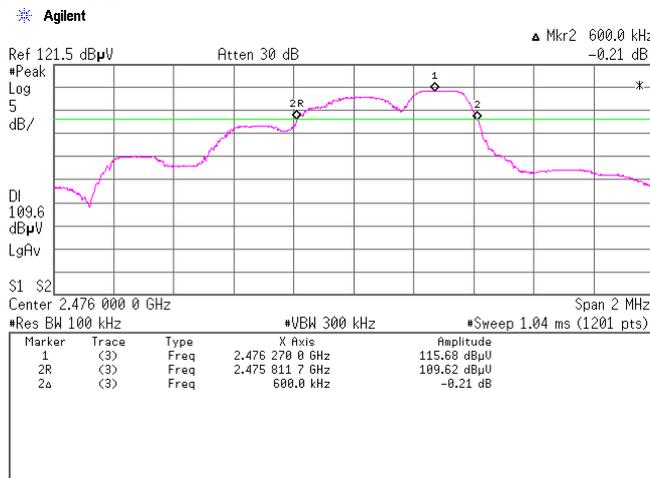
1. ch: 2404MHz/6dB Bandwidth:546.7kHz



2. ch: 2440MHz/6dB Bandwidth:563.3kHz



3. ch: 2476MHz/6dB Bandwidth:600.0kHz



Company: Sony EMCS Corporation Kisarazu TEC
Kind of Equipment: Digital Stereo Transmitter
Serial No.: 3

Report No.: 30DE0120-YK-A
Model No.: TMR-RF4000
Power: DC5.2V

Maximum Peak Conducted Output Power (Regulation: FCC 15.247(b)(3))

UL Japan, Inc Yamakita EMC lab.
No.2 Shielded Room

DATE: 2009.11.20
TEMP./HUMID.: 22deg.C/38%
TEST MODE: Transmitting

ENGINEER: Minoru Nakatake

CH	FREQ [GHz]	PM Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit (1W) [dBm]	MARGIN [dB]
Low	2404.00	6.95	0.73	7.68	30.0	22.32
Mid	2440.00	7.67	0.74	8.41	30.0	21.59
High	2476.00	8.55	0.75	9.30	30.0	20.70

P/M: Power Meter

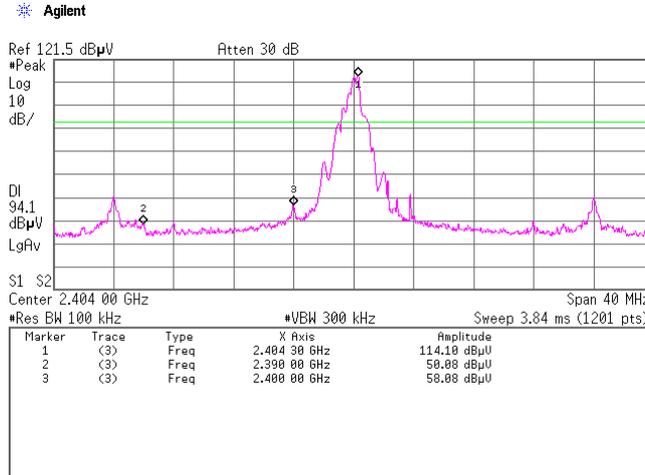
CABLE LOSS:KCC-D20 + Customer Cable

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

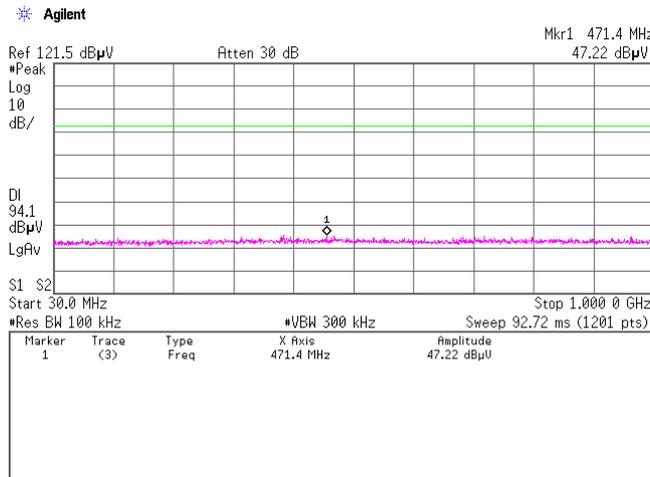
UL Japan, Inc. Yamakita EMC lab. No.2 shielded room
 Date: 2009.11.20
 Temp./Humid.: 22 deg. C. / 38 %
 Engineer: Minoru Nakatake
 Test mode: Transmitting

Tx Ch:2404MHz

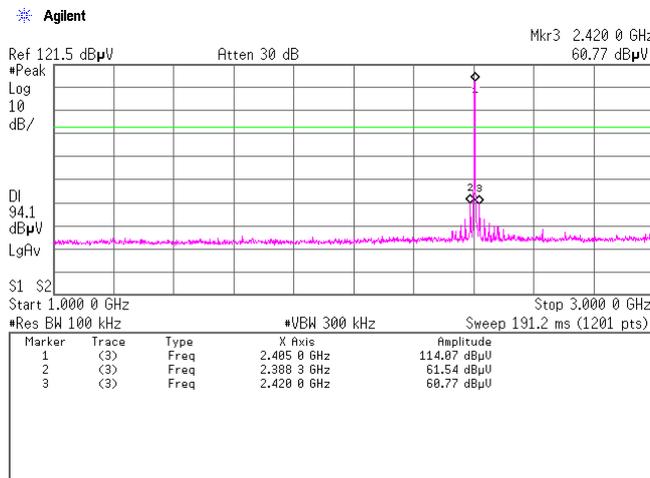
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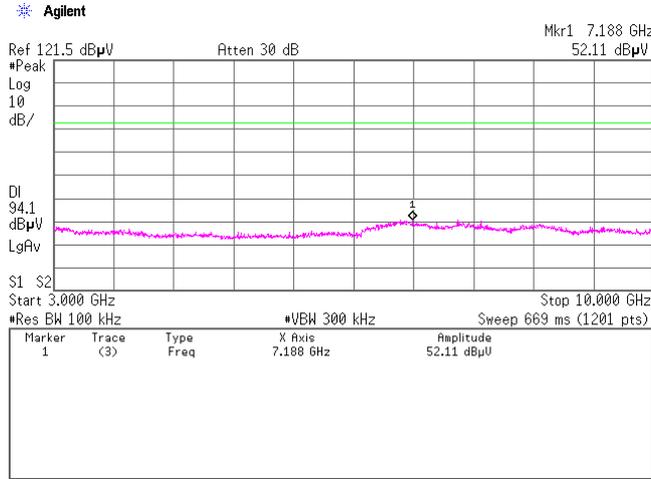


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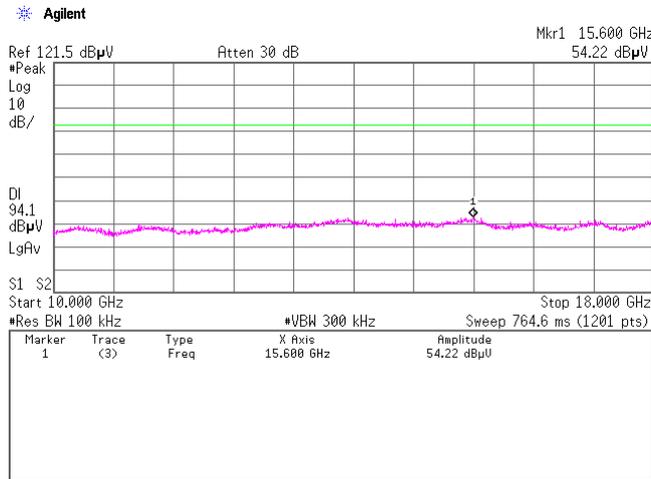


Tx Ch:2404MHz

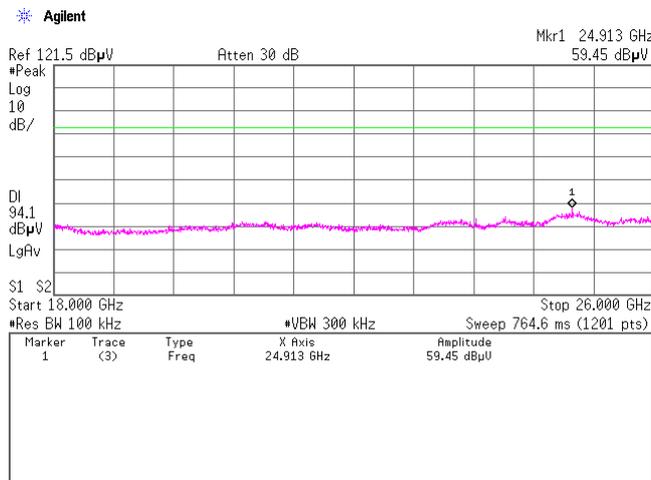
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5.

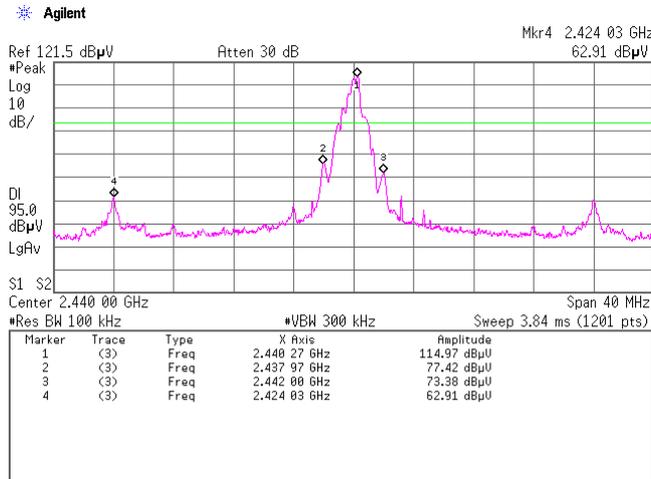


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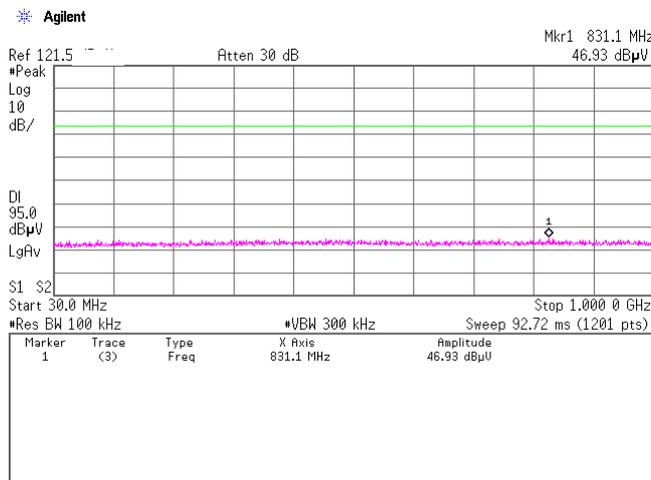


Tx Ch:2440MHz

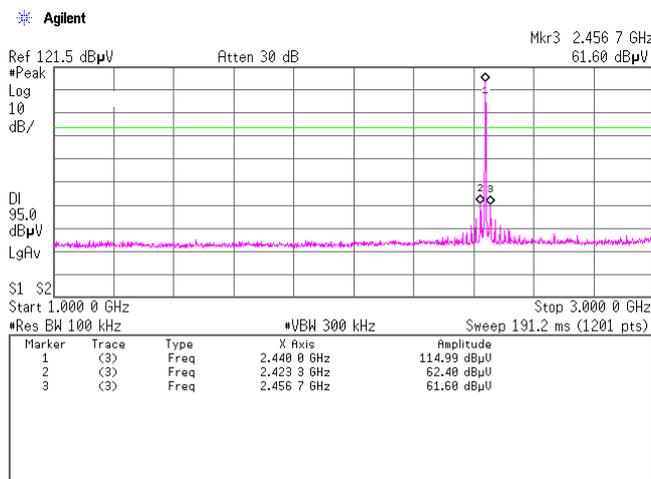
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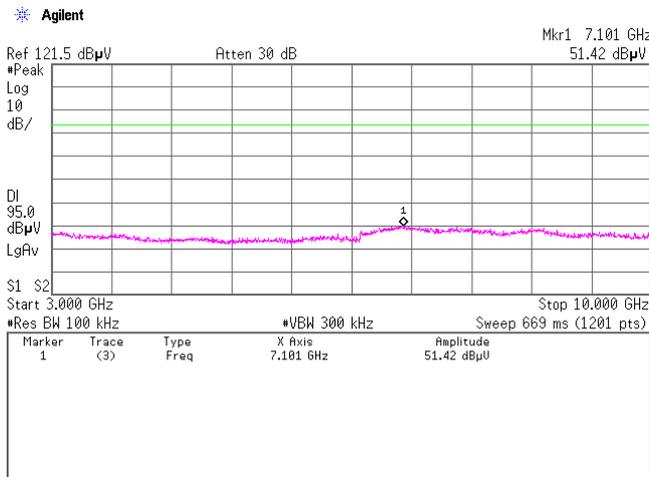


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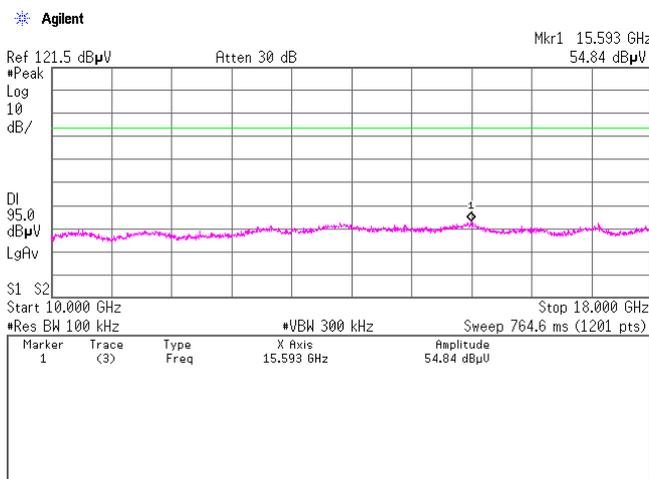


Tx Ch:2440MHz

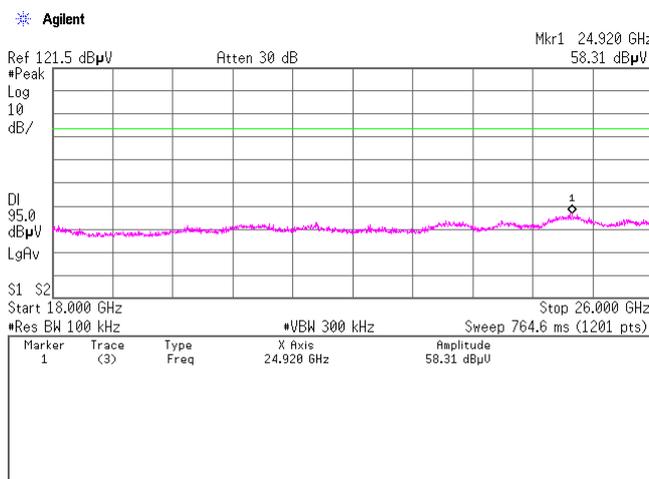
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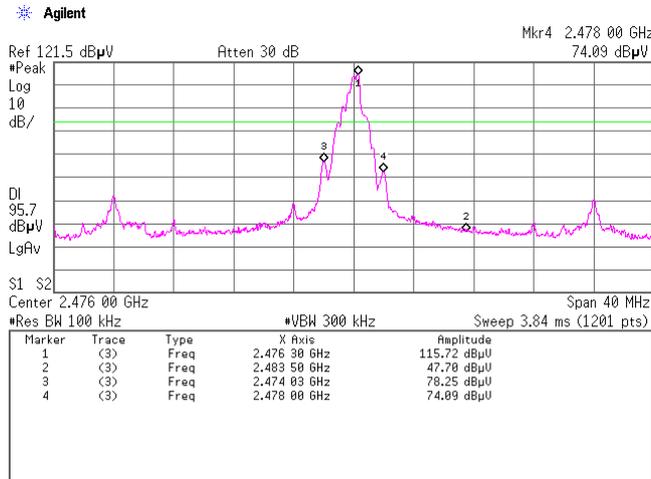


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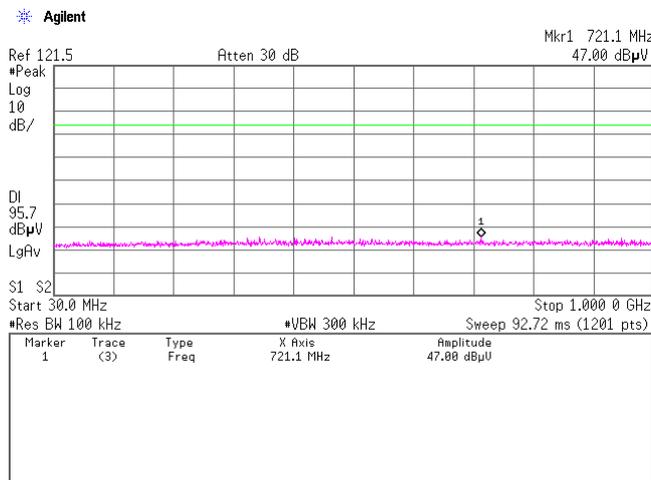


Tx Ch:2476MHz

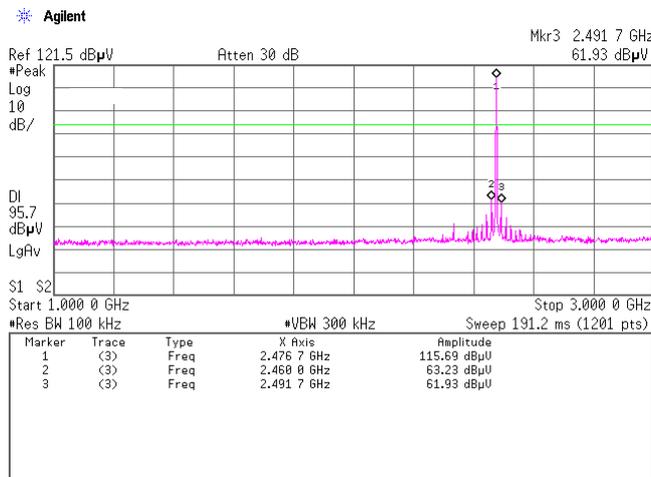
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2.

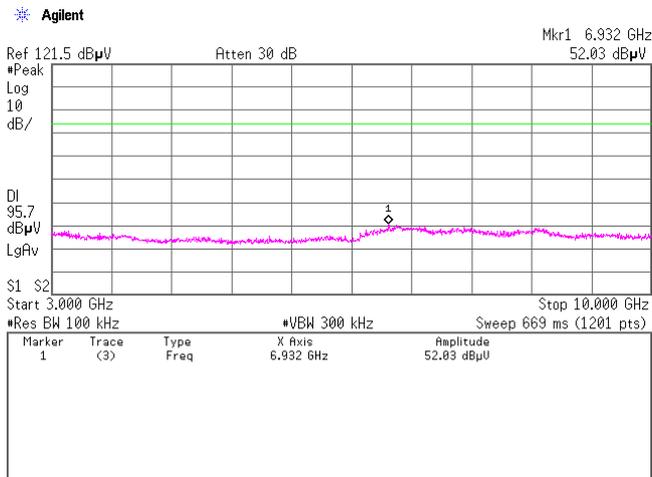


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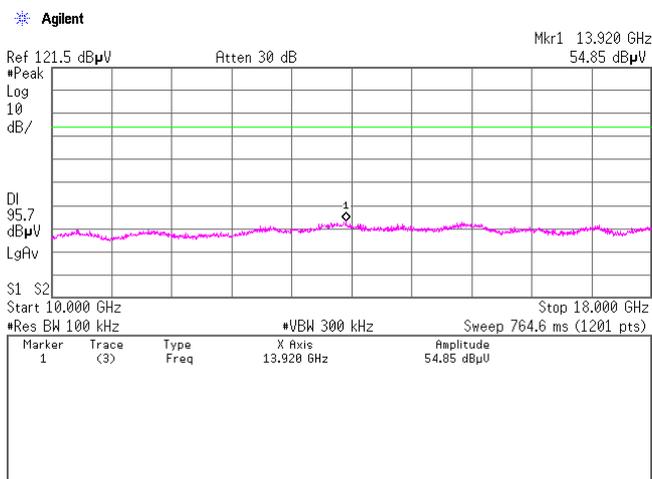


Tx Ch:2476MHz

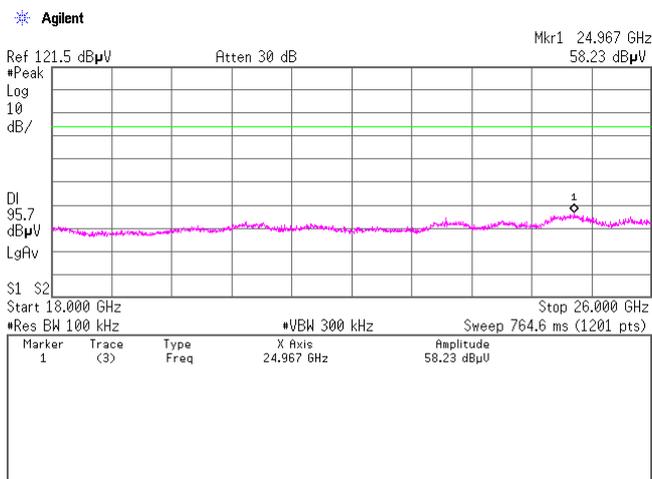
4.



5.



6.



Data of Radiated Disturbance Test

UL Japan, Inc.

YAMAKITA No.1 Semi-anechoic chamber

Report No. : 30DE0120-YK-A

Applicant : Sony EMCS Corporation Kisarazu TEC
Kind of Equipment : Digital Stereo Transmitter
Model No. : TMR-RF4000
Serial No. : 1
Power : DC5.2V
Mode : Transmitting (240MHz)
Remarks : Hor:X, Ver:Y
Date : 11/24/2009
Test Distance : 3 m
Temperature : 20 °C Engineer : Minoru Nakatake
Humidity : 43 %
Regulation : FCC Part15C § 15.209

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 [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]	HOR [dB]	VER [dB]		
1.	41.20	BB	27.8	33.2	14.3	28.6	1.3	6.0	20.8	26.2	40.0	19.2	13.8	
2.	45.61	BB	24.3	36.8	12.9	28.6	1.4	6.0	16.0	28.5	40.0	24.0	11.5	

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

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

■ ANT: KBA-03 (<300MHz) / KLA-03 ■ AMP: KAF-05 ■ RECEIVER: KTR-04

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30DE0120-YK-A

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Digital Stereo Transmitter
 Model No. : TMR-RF4000
 Serial No. : 1
 Power : DC5.2V
 Mode : Transmitting(2404MHz)
 Remarks : Hor:Z, Ver:X, PK (RBW:1MHz, VBW:1MHz)
 Date : 11/19/2009
 Test Distance : 3 m
 Temperature : 20 °C Engineer : Minoru Nakatake
 Humidity : 52 %
 Regulation : FCC Part15C § 15.209(PK Detection)

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.	2388.00	BB	48.4	46.6	28.0	36.5	7.2	9.9	57.0	55.2	74.0	17.0	18.8	
2.	2390.00	BB	44.2	43.7	28.0	36.5	7.2	9.9	52.8	52.3	74.0	21.2	21.7	
3.	2400.00	BB	47.2	45.2	28.0	36.5	7.2	9.9	55.8	53.8	74.0	18.2	20.2	
4.	2419.97	BB	47.7	46.0	28.0	36.5	7.2	9.9	56.3	54.6	74.0	17.7	19.4	
5.	4808.00	BB	45.8	44.3	32.2	36.2	8.4	0.4	50.6	49.1	74.0	23.4	24.9	
6.	7212.00	BB	44.0	44.7	36.7	36.2	9.0	0.3	53.8	54.5	74.0	20.2	19.5	
7.	9616.00	BB	45.9	44.9	38.8	36.3	10.0	0.4	58.8	57.8	74.0	15.2	16.2	
8.	12020.00	BB	45.7	45.1	38.7	35.6	10.7	0.6	60.1	59.5	74.0	13.9	14.5	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KHA-02 ■ CABLE:KCC-D13/D16 ■ AMP:KAF-02 ■ SPECTRUMANALYZER:KSA-08

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30DE0120-YK-A

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Digital Stereo Transmitter
 Model No. : TMR-RF4000
 Serial No. : 1
 Power : DC5.2V
 Mode : Transmitting (2404MHz)
 Remarks : Hor:Z, Ver:X, AV (RBW:1MHz, VBW:10Hz)
 Date : 11/19/2009
 Test Distance : 3 m
 Temperature : 20 °C Engineer : Minoru Nakatake
 Humidity : 52 %
 Regulation : FCC Part15C § 15.209(AV Detection)

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.	2388.00	BB	37.2	35.2	28.0	36.5	7.2	9.9	45.8	43.8	54.0	8.2	10.2
2.	2390.00	BB	34.3	33.2	28.0	36.5	7.2	9.9	42.9	41.8	54.0	11.1	12.2
3.	2400.00	BB	36.9	35.3	28.0	36.5	7.2	9.9	45.5	43.9	54.0	8.5	10.1
4.	2419.97	BB	38.2	35.3	28.0	36.5	7.2	9.9	46.8	43.9	54.0	7.2	10.1
5.	4808.00	BB	35.5	34.5	32.2	36.2	8.4	0.4	40.3	39.3	54.0	13.7	14.7
6.	7212.00	BB	34.9	34.4	36.7	36.2	9.0	0.3	44.7	44.2	54.0	9.3	9.8
7.	9616.00	BB	34.6	34.5	38.8	36.3	10.0	0.4	47.5	47.4	54.0	6.5	6.6
8.	12020.00	BB	34.8	34.9	38.7	35.6	10.7	0.6	49.2	49.3	54.0	4.8	4.7

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KHA-02 ■ CABLE:KCC-D13/D16 ■ AMP:KAF-02 ■ SPECTRUMANALYZER:KSA-08

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
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 Kind of Equipment : Digital Stereo Transmitter
 Model No. : TMR-RF4000
 Serial No. : 1
 Power : DC5.2V
 Mode : Transmitting(2440MHz)
 Remarks : Hor:X, Ver:Y
 Date : 11/24/2009
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15.209

Engineer : Minoru Nakatake

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 [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]	HOR [dB]	VER [dB]		
1.	41.20	BB	28.2	33.3	14.3	28.6	1.3	6.0	21.2	26.3	40.0	18.8	13.7	
2.	45.61	BB	25.3	38.6	12.9	28.6	1.4	6.0	17.0	30.3	40.0	23.0	9.7	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ANT:KBA-03 (<300MHz)/KLA-03 ■AMP:KAF-05 ■RECEIVER:KTR-04

Data of Radiated Disturbance Test

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YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30DE0120-YK-A

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 Kind of Equipment : Digital Stereo Transmitter
 Model No. : TMR-RF4000
 Serial No. : 1
 Power : DC5.2V
 Mode : Transmitting(2440MHz)
 Remarks : Hor:Z, Ver:X, PK (RBW:1MHz, VBW:1MHz)
 Date : 11/19/2009
 Test Distance : 3 m
 Temperature : 20 °C Engineer : Minoru Nakatake
 Humidity : 52 %
 Regulation : FCC Part15C § 15.209(PK Detection)

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.	2424.00	BB	47.1	47.4	28.0	36.5	7.2	9.9	55.7	56.0	74.0	18.3	18.0	
2.	2456.06	BB	46.6	45.9	28.0	36.5	7.3	9.9	55.3	54.6	74.0	18.7	19.4	
3.	4880.00	BB	44.3	44.0	32.2	36.1	8.4	0.4	49.2	48.9	74.0	24.8	25.1	
4.	7320.00	BB	45.2	45.2	36.9	36.3	9.0	0.3	55.1	55.1	74.0	18.9	18.9	
5.	9760.00	BB	44.5	44.7	38.9	36.2	10.1	0.4	57.7	57.9	74.0	16.3	16.1	
6.	12200.00	BB	45.0	44.8	39.0	35.2	10.7	0.5	60.0	59.8	74.0	14.0	14.2	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KHA-02 ■ CABLE:KCC-D13/D16 ■ AMP:KAF-02 ■ SPECTRUMANALYZER:KSA-08

Data of Radiated Disturbance Test

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YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30DE0120-YK-A

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 Kind of Equipment : Digital Stereo Transmitter
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 Serial No. : 1
 Power : DC5.2V
 Mode : Transmitting(2440MHz)
 Remarks : Hor:Z, Ver:X, AV (RBW:1MHz, VBW:10Hz)
 Date : 11/19/2009
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 52 %
 Regulation : FCC Part15C § 15.209(AV Detection)

Engineer : Minoru Nakatake

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.	2424.00	BB	36.4	36.7	28.0	36.5	7.2	9.9	45.0	45.3	54.0	9.0	8.7	
2.	2456.06	BB	36.3	35.5	28.0	36.5	7.3	9.9	45.0	44.2	54.0	9.0	9.8	
3.	4880.00	BB	36.0	35.2	32.2	36.1	8.4	0.4	40.9	40.1	54.0	13.1	13.9	
4.	7320.00	BB	35.3	34.9	36.9	36.3	9.0	0.3	45.2	44.8	54.0	8.8	9.2	
5.	9760.00	BB	34.0	34.5	38.9	36.2	10.1	0.4	47.2	47.7	54.0	6.8	6.3	
6.	12200.00	BB	34.1	34.5	39.0	35.2	10.7	0.5	49.1	49.5	54.0	4.9	4.5	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KHA-02 ■ CABLE:KCC-D13/D16 ■ AMP:KAF-02 ■ SPECTRUMANALYZER:KSA-08

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30DE0120-YK-A

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Digital Stereo Transmitter
 Model No. : TMR-RF4000
 Serial No. : 1
 Power : DC5.2V
 Mode : Transmitting (2476MHz)
 Remarks : Hor:X, Ver:Y
 Date : 11/24/2009
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15.209

Engineer : Minoru Nakatake

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.	41.21	BB	28.6	33.7	14.3	28.6	1.3	6.0	21.6	26.7	40.0	18.4	13.3	
2.	45.60	BB	26.0	37.9	12.9	28.6	1.4	6.0	17.7	29.6	40.0	22.3	10.4	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT : KBA-03 (<300MHz) / KLA-03 ■ AMP : KAF-05 ■ RECEIVER : KTR-04

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30DE0120-YK-A

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Digital Stereo Transmitter
 Model No. : TMR-RF4000
 Serial No. : 1
 Power : DC5.2V
 Mode : Transmitting(2476MHz)
 Remarks : Hor:Z, Ver:X, PK (RBW:1MHz, VBW:1MHz)
 Date : 11/19/2009
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 52 %
 Regulation : FCC Part15C § 15.209(PK Detection)

Engineer : Minoru Nakatake

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.	2460.08	BB	47.7	46.2	28.0	36.5	7.3	9.9	56.4	54.9	74.0	17.6	19.1
2.	2483.50	BB	44.0	44.3	28.0	36.5	7.3	9.9	52.7	53.0	74.0	21.3	21.0
3.	2492.08	BB	45.3	45.7	28.0	36.5	7.3	9.9	54.0	54.4	74.0	20.0	19.6
4.	4952.00	BB	45.2	45.1	32.3	36.1	8.5	0.3	50.2	50.1	74.0	23.8	23.9
5.	7428.00	BB	44.5	44.3	37.2	36.3	9.0	0.3	54.7	54.5	74.0	19.3	19.5
6.	9904.00	BB	44.3	44.7	39.1	36.2	10.1	0.4	57.7	58.1	74.0	16.3	15.9
7.	12380.00	BB	44.6	44.3	39.3	34.9	10.7	0.5	60.2	59.9	74.0	13.8	14.1

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KHA-02 ■ CABLE:KCC-D13/D16 ■ AMP:KAF-02 ■ SPECTRUMANALYZER:KSA-08

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30DE0120-YK-A

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Digital Stereo Transmitter
 Model No. : TMR-RF4000
 Serial No. : 1
 Power : DC5.2V
 Mode : Transmitting(2476MHz)
 Remarks : Hor:Z, Ver:X, AV (RBW:1MHz, VBW:10Hz)
 Date : 11/19/2009
 Test Distance : 3 m
 Temperature : 20 °C Engineer : Minoru Nakatake
 Humidity : 52 %
 Regulation : FCC Part15C § 15.209(AV Detection)

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.	2460.08	BB	37.5	35.9	28.0	36.5	7.3	9.9	46.2	44.6	54.0	7.8	9.4
2.	2483.50	BB	33.9	34.2	28.0	36.5	7.3	9.9	42.6	42.9	54.0	11.4	11.1
3.	2492.08	BB	35.3	35.6	28.0	36.5	7.3	9.9	44.0	44.3	54.0	10.0	9.7
4.	4952.00	BB	38.9	37.2	32.3	36.1	8.5	0.3	43.9	42.2	54.0	10.1	11.8
5.	7428.00	BB	34.5	34.4	37.2	36.3	9.0	0.3	44.7	44.6	54.0	9.3	9.4
6.	9904.00	BB	34.4	34.4	39.1	36.2	10.1	0.4	47.8	47.8	54.0	6.2	6.2
7.	12380.00	BB	34.2	34.1	39.3	34.9	10.7	0.5	49.8	49.7	54.0	4.2	4.3

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KHA-02 ■ CABLE:KCC-D13/D16 ■ AMP:KAF-02 ■ SPECTRUMANALYZER:KSA-08

Company: Sony EMCS Corporation Kisarazu TEC
Kind of Equipment: Digital Stereo Transmitter
Serial No.: 3

Report No.: 30DE0120-YK-A
Model No.: TMR-RF4000
Power: DC5.2V

Power Density (Regulation: FCC 15.247(e))

UL Japan, Inc Yamakita EMC lab.
No.2 Shielded Room

DATE: 2009.11.20
TEMP./HUMID.: 22deg.C/38%
TEST MODE: Transmitting

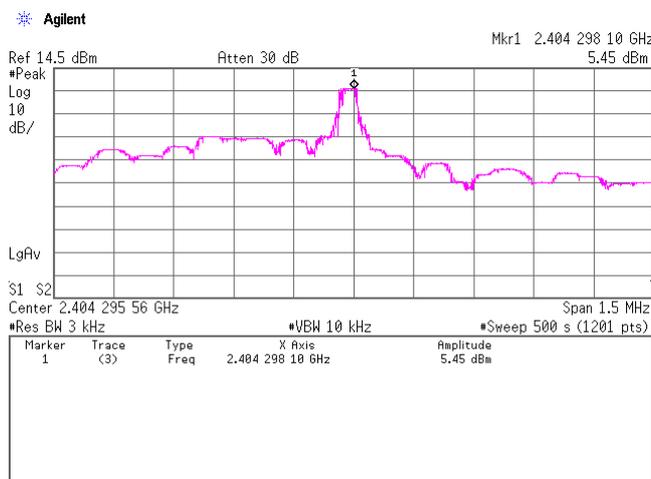
ENGINEER: Minoru Nakatake

CH	FREQ [GHz]	SA Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit (1W) [dBm]	MARGIN [dB]
Low	2404.00	5.45	0.73	6.18	8.0	1.82
Mid	2440.00	6.31	0.74	7.05	8.0	0.95
High	2476.00	7.02	0.75	7.77	8.0	0.23

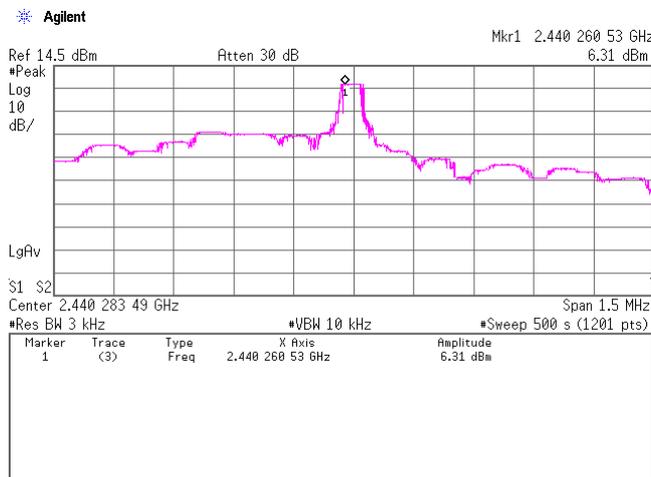
SA: Spectrum Analyzer

CABLE LOSS:KCC-D20 + Customer Cable

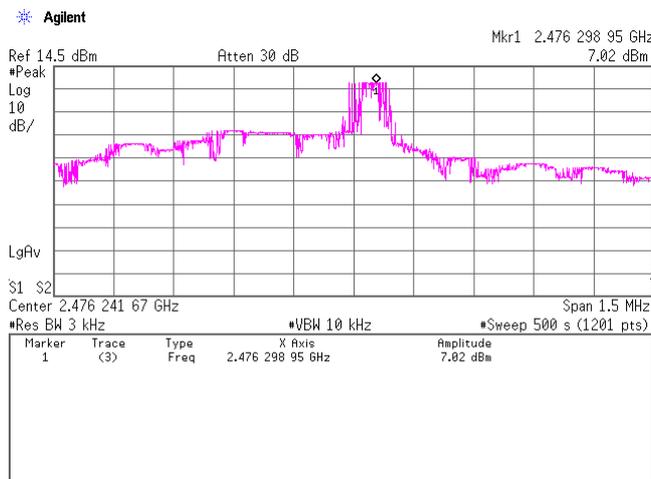
1. ch : 2404MHz



2. ch : 2440MHz



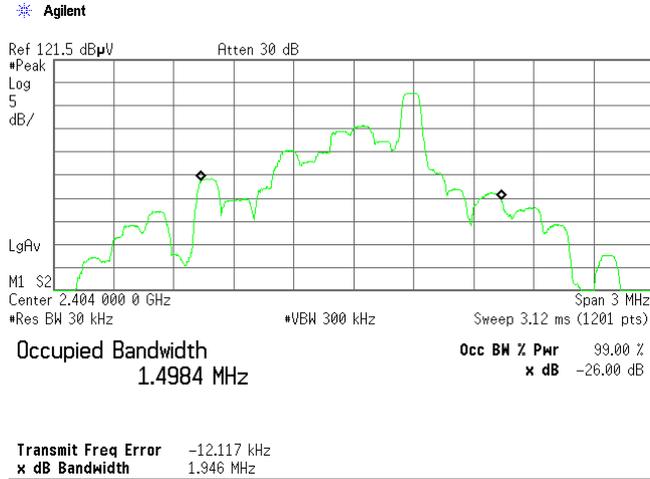
3. ch : 2476MHz



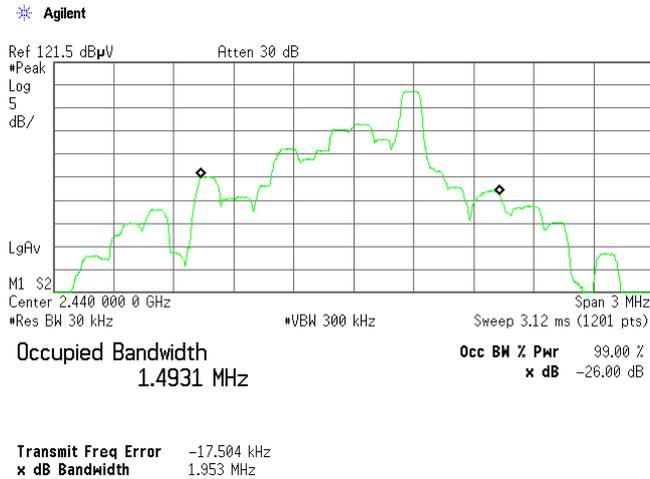
Occupied Bandwidth (99%) (Regulation: RSS-Gen 4.6.1)

UL Japan, Inc. Yamakita EMC lab. No.2 shielded room
Date: 2009.11.20
Temp/Humid.: 22 deg. C. / 38 %
Engineer: Minoru Nakatake
Test mode: Transmitting

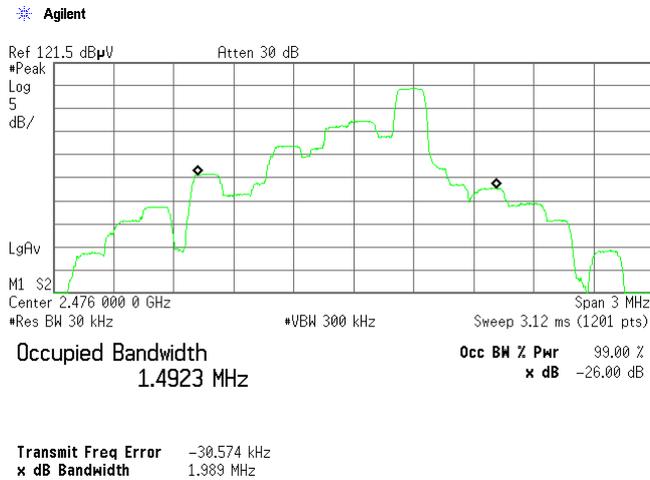
1. ch: 2404MHz/ Occupied Bandwidth:1.4984MHz



2. ch: 2440MHz/ Occupied Bandwidth:1.4931MHz



3. ch: 2476MHz/ Occupied Bandwidth:1.4923MHz



APPENDIX 3 Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
CUST-YA-CE	Conducted emission(software)	UL Japan	CE(Ver.1.9)	-	CE	-
KLS-01	LISN(AMN)	Schwarzbeck	NSLK8126	8126354	CE	2009/02/17 * 12
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/S0 4272B/S04272B/P L01/-	-/9909017	CE	2009/05/26 * 12
KSA-02	Spectrum Analyzer	Advantest	R3265A	55060826	CE	2008/12/26 * 12
KTR-02	Test Receiver	Rohde & Schwarz	ESCS30	830986/017	CE	2009/09/16 * 12
KJM-10	Measure	KOMELON	KMC-36	-	CE	-
KOS-04	Humidity Indicator	SATO	PC-5000TRH	B-08	CE	2009/07/23 * 12
CUST-YA-RE	Radiated emission(software)	UL Japan	RE(Ver.1.9)	-	RE	-
KAEC-01(NSA)	Anechoic Chamber	JSE	Semi 3m	1	RE	2009/08/20 * 12
KAF-05	Pre Amplifier	Agilent	8447D	2944A10150	RE	2009/03/27 * 12
KAT3-08	Attenuator	JFW IND. INC.	50HF-003N	-	RE	2009/08/18 * 12
KAT6-01	Attenuator	INMET	18N-6dB	-	RE	2009/03/10 * 12
KBA-03	Biconical Antenna	Schwarzbeck	BBA9106	1926	RE	2008/12/28 * 12
KLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	170	RE	2008/12/28 * 12
KCC-30/31/32 /34/37/KRM-0 3	Coaxial Cable/RF Relay Matrix	Fujikura/Suhner/TSJ	5D-2W/S04272B/ RFM-E421	-/01055	RE	2009/10/27 * 12
KAF-02	Pre Amplifier	Hewlett Packard	8449B	3008A01268	RE	2009/04/24 * 12
KHA-02	Horn Antenna	Schwarzbeck	BBHA9120D	230	RE	2009/04/24 * 12
KHA-04	Horn Antenna	EMCO	3160-09	1278	RE	2009/04/24 * 12
KCC-D13/D16	Coaxial cable	Suhner/INSULATED WIRE INC	SUCOFLEX104/KP S-1501-200-KPS	200723/4 /04202005	RE	2009/04/27 * 12
KAT10-S3	Attenuator	Agilent	8490D 010	50924	RE	2009/07/30 * 12
KFL-03	Band Reject Filter	MICRO-TRONICS	BRM12515	006	RE	2009/02/17 * 12
KSA-08	Spectrum Analyzer	Agilent	E4446A	MY46180525	RE/AT 1,3,4	2009/01/22 * 12
KTR-04	Test Receiver	Rohde & Schwarz	ESVS10	825475/006	RE	2009/03/03 * 12
KJM-07	Measure	KOMELON	KMC-36	-	RE	-
KOS-02	Humidity Indicator	Custom	CTH-190	K-02	RE	2009/07/23 * 12
KCC-D20	Coaxial Cable	SUHNER	SUCOFLEX102	31110/2	AT 1,3,4	2009/07/30 * 12
KPM-08	Power meter	Anritsu	ML2495A	6K00003356	AT 2	2009/10/30 * 12
KPSS-04	Power sensor	Anritsu	MA2411B	012088	AT 2	2009/10/30 * 12
KOS-01	Humidity Indicator	Custom	CTH-190	K-01	AT all	2009/07/29 * 12

The expiration date of the calibration is the end of the expired month .
As for some calibrations performed after the tested dates , those test equipment have been controlled by means of an unbroken chains of calibrations .

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

Test Item :

- CE: Conducted emission test
- RE: Out of band emission (Radiated)
- AT: Antenna port conducted test
 - 1: 6dB bandwidth & Occupied bandwidth
 - 2: Maximum peak output power
 - 3: Out of band emission (Conducted)