

**APPENDIX 2: Data of EMI test**

**Radiated Emission**  
Variation No. 1

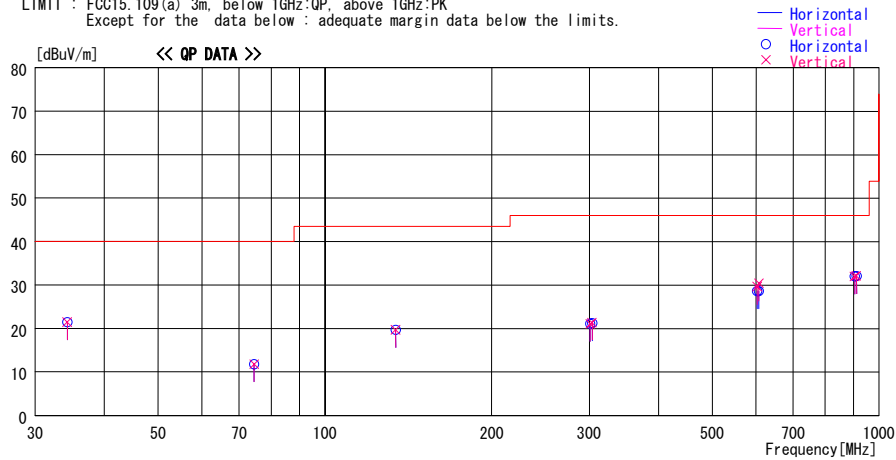
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/10

Report No. : 30KE0045-HO-01  
Temp./Humi. : 23deg.C. / 69%  
Engineer : Satofumi Matsuyama

Mode / Remarks : RKES Receiving mode(312.1MHz, 314.35MHz). Worst-axis(Hor:X, Ver:X)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK  
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Gain							
			[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
34.297	39.2	QP	16.2	-33.9	21.5	0	300	Hori.	40.0	18.5	
34.297	39.2	QP	16.2	-33.9	21.5	0	100	Vert.	40.0	18.5	
74.530	38.4	QP	6.5	-33.1	11.8	0	300	Hori.	40.0	28.2	
74.530	38.4	QP	6.5	-33.1	11.8	0	100	Vert.	40.0	28.2	
134.206	37.7	QP	13.9	-31.9	19.7	0	300	Hori.	43.5	23.8	
134.206	37.7	QP	13.9	-31.9	19.7	0	100	Vert.	43.5	23.8	
301.200	37.0	QP	14.3	-30.2	21.1	0	100	Vert.	46.0	24.9	
301.200	37.0	QP	14.3	-30.2	21.1	0	100	Hori.	46.0	24.9	
303.450	37.2	QP	14.4	-30.2	21.4	0	100	Vert.	46.0	24.6	
303.450	37.1	QP	14.4	-30.2	21.3	0	100	Hori.	46.0	24.7	
602.400	37.1	QP	19.7	-28.2	28.6	0	100	Hori.	46.0	17.4	
602.400	38.1	QP	19.7	-28.2	29.6	332	104	Vert.	46.0	16.4	
606.900	37.1	QP	19.7	-28.2	28.6	0	100	Hori.	46.0	17.4	
606.900	38.9	QP	19.7	-28.2	30.4	167	100	Vert.	46.0	15.6	
903.600	36.3	QP	21.9	-26.2	32.0	0	100	Vert.	46.0	14.0	
903.600	36.3	QP	21.9	-26.2	32.0	0	100	Hori.	46.0	14.0	
910.350	36.2	QP	22.1	-26.2	32.1	0	100	Vert.	46.0	13.9	
910.350	36.2	QP	22.1	-26.2	32.1	0	100	Hori.	46.0	13.9	

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

\*The limit is rounded down to one decimal place.

\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
Variation No. 1

**DATA OF RADIATED EMISSION TEST**

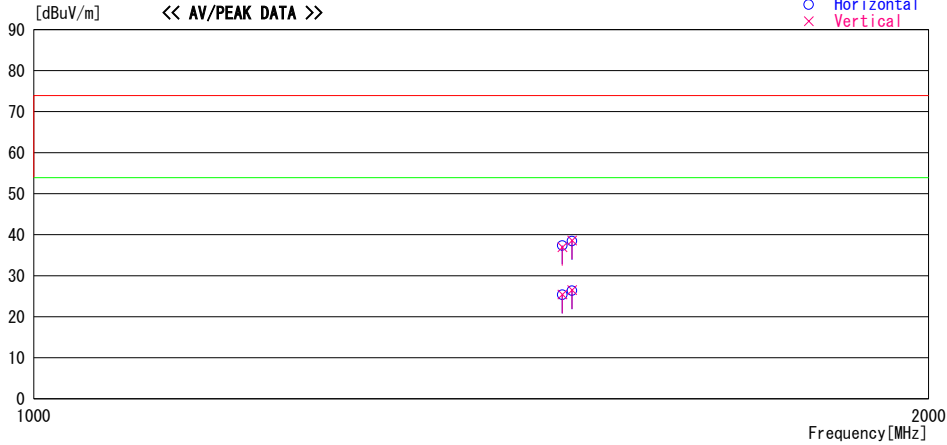
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/11

Report No. : 30KE0045-HO-01  
Temp./Humi. : 25deg. C. / 65%  
Engineer : Satofumi Matsuyama

Mode / Remarks : RKES Receiving mode(312.1MHz, 314.35MHz), Worst-axis(Hor:X, Ver:X)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK  
FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV

— Horizontal  
— Vertical  
○ Horizontal  
× Vertical



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss & Gain [dB]							
1506.000	46.7	PK	25.3	-34.6	37.4	0	100	Hori.	73.9	36.5	
1506.000	46.3	PK	25.3	-34.6	37.0	0	100	Vert.	73.9	36.9	
1506.000	34.7	AV	25.3	-34.6	25.4	0	100	Hori.	53.9	28.5	
1506.000	34.7	AV	25.3	-34.6	25.4	0	100	Vert.	53.9	28.5	
1517.250	47.7	PK	25.4	-34.6	38.5	0	100	Hori.	73.9	35.4	
1517.250	47.8	PK	25.4	-34.6	38.6	0	100	Vert.	73.9	35.3	
1517.250	35.6	AV	25.4	-34.6	26.4	0	100	Hori.	53.9	27.5	
1517.250	35.7	AV	25.4	-34.6	26.5	0	100	Vert.	53.9	27.4	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
**Variation No. 3**  
(Reference data)

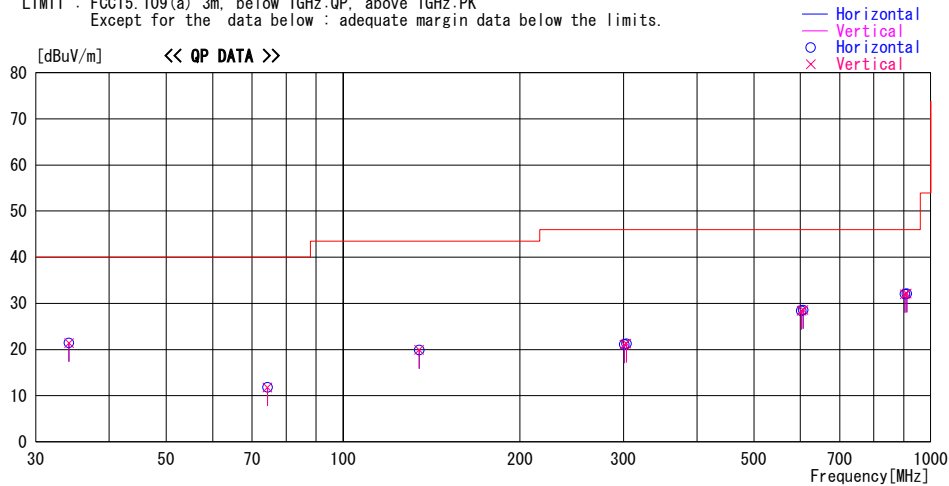
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/10

Report No. : 30KE0045-HO-01  
Temp./Humi. : 23deg. C. / 69%  
Engineer : Satofumi Matsuyama

Mode / Remarks : RKES Receiving mode(312.1MHz. 314.35MHz). Worst-axis(Hor:X. Ver:X)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK  
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss& Gain [dB]							
34.179	39.1	QP	16.2	-33.9	21.4	0	300	Hori.	40.0	18.6	
34.179	39.1	QP	16.2	-33.9	21.4	0	100	Vert.	40.0	18.6	
74.378	38.4	QP	6.5	-33.1	11.8	0	300	Hori.	40.0	28.2	
74.378	38.4	QP	6.5	-33.1	11.8	0	100	Vert.	40.0	28.2	
134.746	37.8	QP	14.0	-31.9	19.9	0	300	Hori.	43.5	23.6	
134.746	37.8	QP	14.0	-31.9	19.9	0	100	Vert.	43.5	23.6	
301.200	37.0	QP	14.3	-30.2	21.1	0	100	Vert.	46.0	24.9	
301.200	37.0	QP	14.3	-30.2	21.1	0	100	Hori.	46.0	24.9	
303.450	37.1	QP	14.4	-30.2	21.3	0	100	Vert.	46.0	24.7	
303.450	37.1	QP	14.4	-30.2	21.3	0	100	Hori.	46.0	24.7	
602.400	36.9	QP	19.7	-28.2	28.4	0	100	Vert.	46.0	17.6	
602.400	36.9	QP	19.7	-28.2	28.4	0	100	Hori.	46.0	17.6	
606.900	37.1	QP	19.7	-28.2	28.6	0	100	Vert.	46.0	17.4	
606.900	37.0	QP	19.7	-28.2	28.5	0	100	Hori.	46.0	17.5	
903.600	36.3	QP	21.9	-26.2	32.0	0	100	Vert.	46.0	14.0	
903.600	36.3	QP	21.9	-26.2	32.0	0	100	Hori.	46.0	14.0	
910.350	36.2	QP	22.1	-26.2	32.1	0	100	Vert.	46.0	13.9	
910.350	36.2	QP	22.1	-26.2	32.1	0	100	Hori.	46.0	13.9	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
**Variation No. 3**  
(Reference data)

**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/11

Report No. : 30KE0045-HO-01  
Temp./Humi. : 25deg. C. / 65%  
Engineer : Satofumi Matsuyama

Mode / Remarks : RKES Receiving mode(312.1MHz, 314.35MHz). Worst-axis(Hor:X, Ver:X)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK  
FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV

— Horizontal  
— Vertical  
○ Horizontal  
× Vertical



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss & Gain [dB]							
1506.000	47.3	PK	25.3	-34.6	38.0	0	100	Hori.	73.9	35.9	
1506.000	47.4	PK	25.3	-34.6	38.1	0	100	Vert.	73.9	35.8	
1506.000	34.7	AV	25.3	-34.6	25.4	0	100	Hori.	53.9	28.5	
1506.000	34.7	AV	25.3	-34.6	25.4	0	100	Vert.	53.9	28.5	
1517.250	48.0	PK	25.4	-34.6	38.8	0	100	Hori.	73.9	35.1	
1517.250	47.9	PK	25.4	-34.6	38.7	0	100	Vert.	73.9	35.2	
1517.250	35.6	AV	25.4	-34.6	26.4	0	100	Hori.	53.9	27.5	
1517.250	35.6	AV	25.4	-34.6	26.4	0	100	Vert.	53.9	27.5	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
**Variation No. 5**  
(Reference data)

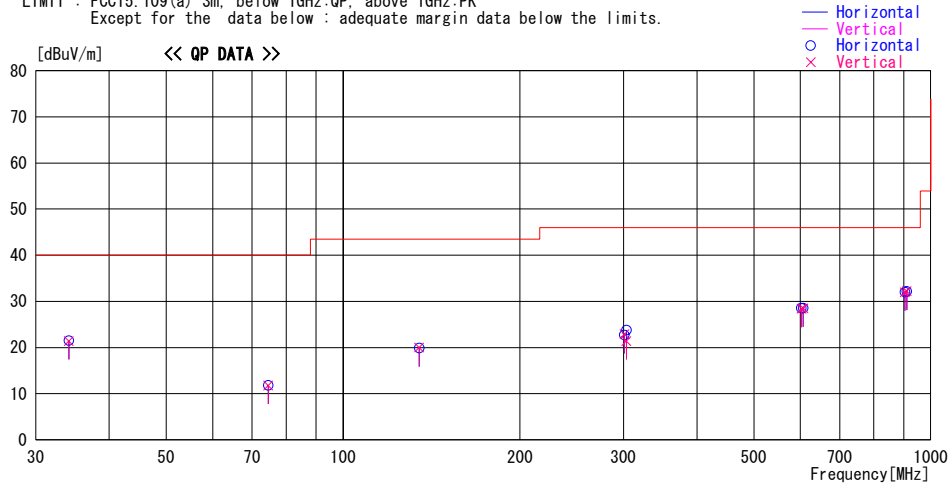
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/10

Report No. : 30KE0045-HO-01  
Temp./Humi. : 23deg. C. / 69%  
Engineer : Satofumi Matsuyama

Mode / Remarks : RKES Receiving mode(312.1MHz, 314.35MHz). Worst-axis(Hor:X, Ver:X)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK  
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss & Gain [dB]							
34.137	39.2	QP	16.2	-33.9	21.5	0	300	Hori.	40.0	18.5	
34.137	39.1	QP	16.2	-33.9	21.4	0	100	Vert.	40.0	18.6	
74.584	38.4	QP	6.5	-33.1	11.8	0	300	Hori.	40.0	28.2	
74.584	38.4	QP	6.5	-33.1	11.8	0	100	Vert.	40.0	28.2	
134.722	37.8	QP	14.0	-31.9	19.9	0	300	Hori.	43.5	23.6	
134.722	37.9	QP	14.0	-31.9	20.0	0	100	Vert.	43.5	23.5	
301.200	38.6	QP	14.3	-30.2	22.7	304	100	Hori.	46.0	23.3	
301.200	38.8	QP	14.3	-30.2	22.9	156	138	Vert.	46.0	23.1	
303.450	39.6	QP	14.4	-30.2	23.8	174	125	Hori.	46.0	22.2	
303.450	37.2	QP	14.4	-30.2	21.4	215	100	Vert.	46.0	24.6	
602.400	37.0	QP	19.7	-28.2	28.5	0	100	Hori.	46.0	17.5	
602.400	36.9	QP	19.7	-28.2	28.4	0	100	Vert.	46.0	17.6	
606.900	37.0	QP	19.7	-28.2	28.5	0	100	Hori.	46.0	17.5	
606.900	37.0	QP	19.7	-28.2	28.5	0	100	Vert.	46.0	17.5	
903.600	36.3	QP	21.9	-26.2	32.0	0	100	Hori.	46.0	14.0	
903.600	36.3	QP	21.9	-26.2	32.0	0	100	Vert.	46.0	14.0	
910.350	36.3	QP	22.1	-26.2	32.2	0	100	Hori.	46.0	13.8	
910.350	36.3	QP	22.1	-26.2	32.2	0	100	Vert.	46.0	13.8	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
**Variation No. 5**  
(Reference data)

**DATA OF RADIATED EMISSION TEST**

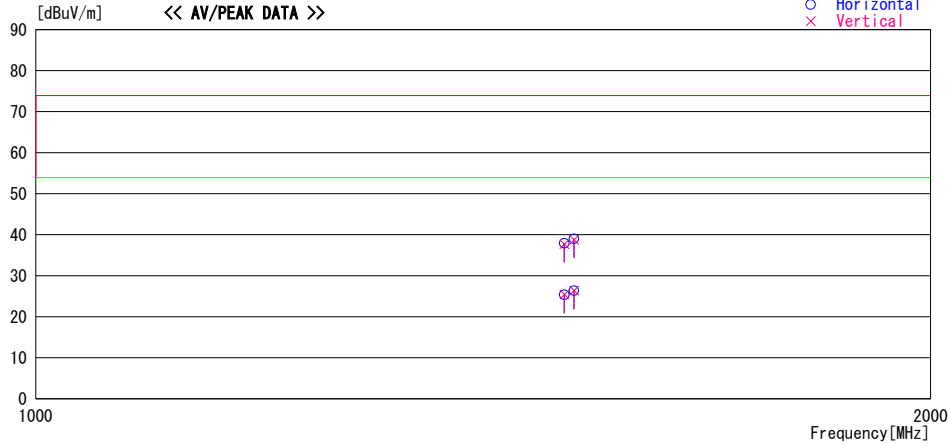
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/11

Report No. : 30KE0045-HO-01  
Temp./Humi. : 25deg. C. / 65%  
Engineer : Satofumi Matsuyama

Mode / Remarks : RKES Receiving mode(312.1MHz, 314.35MHz). Worst-axis(Hor:X, Ver:X)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK  
FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV

— Horizontal  
— Vertical  
○ Horizontal  
× Vertical



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss & Gain [dB]							
1506.000	47.2	PK	25.3	-34.6	37.9	0	100	Hori.	73.9	36.0	
1506.000	47.0	PK	25.3	-34.6	37.7	0	100	Vert.	73.9	36.2	
1506.000	34.7	AV	25.3	-34.6	25.4	0	100	Hori.	53.9	28.5	
1506.000	34.7	AV	25.3	-34.6	25.4	0	100	Vert.	53.9	28.5	
1517.250	48.2	PK	25.4	-34.6	39.0	0	100	Hori.	73.9	34.9	
1517.250	48.0	PK	25.4	-34.6	38.8	0	100	Vert.	73.9	35.1	
1517.250	35.6	AV	25.4	-34.6	26.4	0	100	Hori.	53.9	27.5	
1517.250	35.6	AV	25.4	-34.6	26.4	0	100	Vert.	53.9	27.5	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
**Variation No. 7**  
(Reference data)

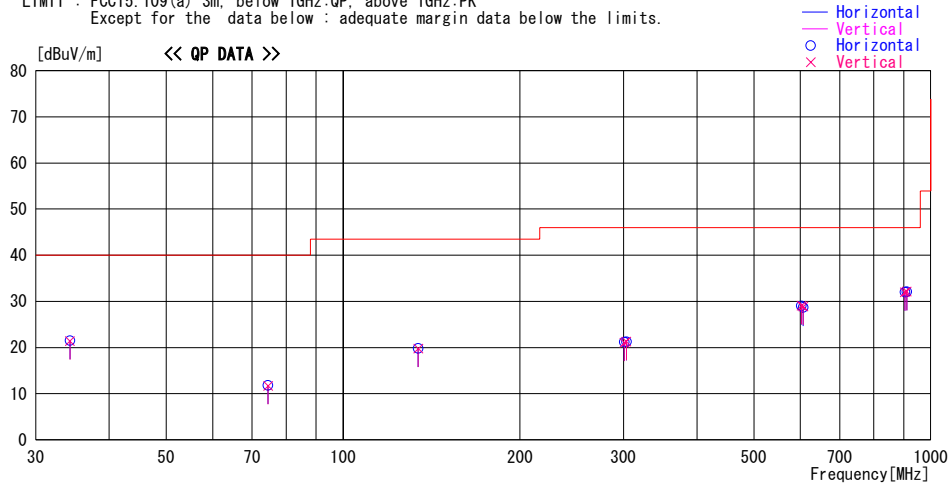
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/10

Report No. : 30KE0045-HO-01  
Temp./Humi. : 23deg. C. / 69%  
Engineer : Satofumi Matsuyama

Mode / Remarks : RKES Receiving mode(312.1MHz, 314.35MHz). Worst-axis(Hor:X, Ver:X)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK  
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss & Gain [dB]							
34.303	39.1	QP	16.2	-33.9	21.4	0	100	Vert.	40.0	18.6	
34.303	39.2	QP	16.2	-33.9	21.5	0	300	Hori.	40.0	18.5	
74.512	38.3	QP	6.5	-33.1	11.7	0	100	Vert.	40.0	28.3	
74.512	38.4	QP	6.5	-33.1	11.8	0	300	Hori.	40.0	28.2	
134.309	37.8	QP	13.9	-31.9	19.8	0	100	Vert.	43.5	23.7	
134.309	37.8	QP	13.9	-31.9	19.8	0	300	Hori.	43.5	23.7	
301.200	37.0	QP	14.3	-30.2	21.1	0	100	Vert.	46.0	24.9	
301.200	37.1	QP	14.3	-30.2	21.2	0	100	Hori.	46.0	24.8	
303.450	37.1	QP	14.4	-30.2	21.3	0	100	Vert.	46.0	24.7	
303.450	37.1	QP	14.4	-30.2	21.3	0	100	Hori.	46.0	24.7	
602.400	37.6	QP	19.7	-28.2	29.1	31	100	Vert.	46.0	16.9	
602.400	37.5	QP	19.7	-28.2	29.0	0	100	Hori.	46.0	17.0	
606.900	37.4	QP	19.7	-28.2	28.9	27	100	Vert.	46.0	17.1	
606.900	37.2	QP	19.7	-28.2	28.7	195	100	Hori.	46.0	17.3	
903.600	36.3	QP	21.9	-26.2	32.0	0	100	Vert.	46.0	14.0	
903.600	36.3	QP	21.9	-26.2	32.0	0	100	Hori.	46.0	14.0	
910.350	36.2	QP	22.1	-26.2	32.1	0	100	Vert.	46.0	13.9	
910.350	36.2	QP	22.1	-26.2	32.1	0	100	Hori.	46.0	13.9	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
**Variation No. 7**  
(Reference data)

**DATA OF RADIATED EMISSION TEST**

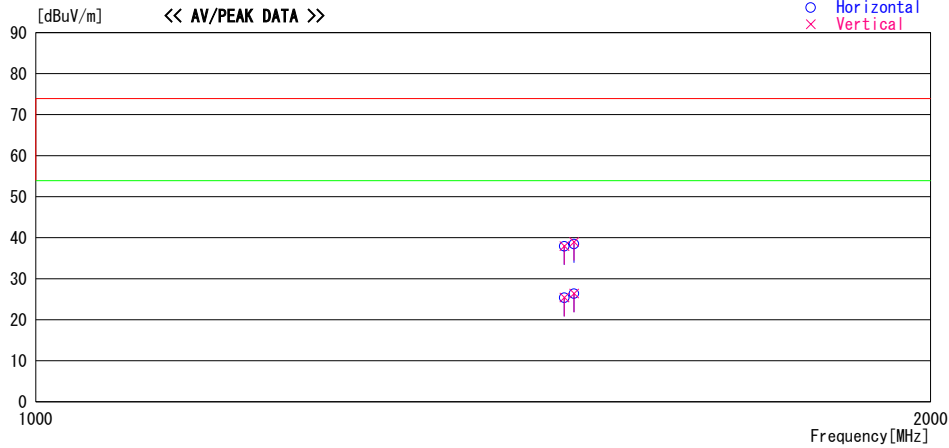
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/11

Report No. : 30KE0045-HO-01  
Temp./Humi. : 25deg. C. / 65%  
Engineer : Satofumi Matsuyama

Mode / Remarks : RKES Receiving mode(312.1MHz, 314.35MHz). Worst-axis(Hor:X, Ver:X)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK  
FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV

— Horizontal  
— Vertical  
○ Horizontal  
× Vertical



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss & Gain [dB]							
1506.000	47.2	PK	25.3	-34.6	37.9	0	100	Hori.	73.9	36.0	
1506.000	47.3	PK	25.3	-34.6	38.0	0	100	Vert.	73.9	35.9	
1506.000	34.7	AV	25.3	-34.6	25.4	0	100	Hori.	53.9	28.5	
1506.000	34.7	AV	25.3	-34.6	25.4	0	100	Vert.	53.9	28.5	
1517.250	47.7	PK	25.4	-34.6	38.5	0	100	Hori.	73.9	35.4	
1517.250	48.2	PK	25.4	-34.6	39.0	0	100	Vert.	73.9	34.9	
1517.250	35.6	AV	25.4	-34.6	26.4	0	100	Hori.	53.9	27.5	
1517.250	35.6	AV	25.4	-34.6	26.4	0	100	Vert.	53.9	27.5	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.



**Radiated Emission**  
**Variation No. 11**  
(Reference data)

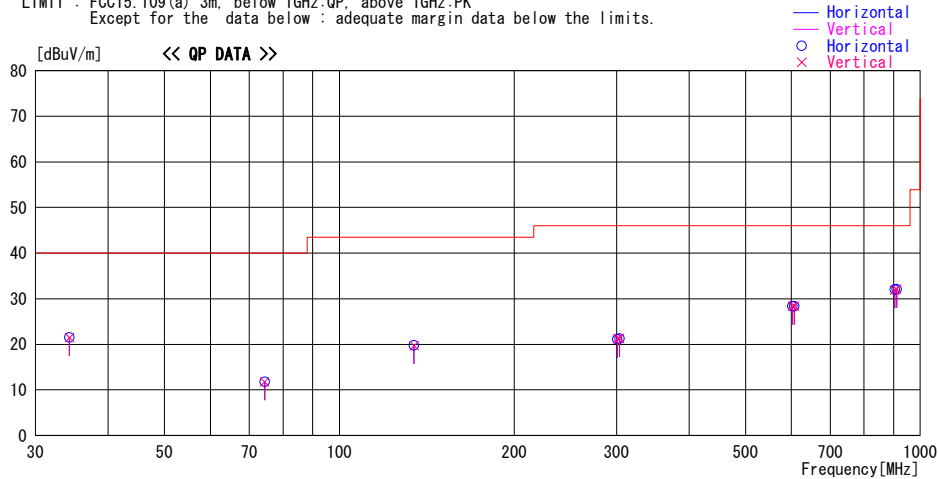
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/10

Report No. : 30KE0045-HO-01  
Temp./Humi. : 23deg. C. / 69%  
Engineer : Satofumi Matsuyama

Mode / Remarks : RKES Receiving mode (312.1MHz, 314.35MHz), Worst-axis (Hor:X, Ver:X)

LIMIT : FCC15.109 (a) 3m, below 1GHz:QP, above 1GHz:PK  
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss & Gain [dB]							
34.329	39.2	QP	16.2	-33.9	21.5	0	300	Hori.	40.0	18.5	
34.329	39.2	QP	16.2	-33.9	21.5	0	100	Vert.	40.0	18.5	
74.345	38.4	QP	6.5	-33.1	11.8	0	300	Hori.	40.0	28.2	
74.345	38.4	QP	6.5	-33.1	11.8	0	100	Vert.	40.0	28.2	
134.429	37.8	QP	13.9	-31.9	19.8	0	300	Hori.	43.5	23.7	
134.429	37.7	QP	13.9	-31.9	19.7	0	100	Vert.	43.5	23.8	
301.200	37.0	QP	14.3	-30.2	21.1	0	100	Hori.	46.0	24.9	
301.200	37.1	QP	14.3	-30.2	21.2	0	100	Vert.	46.0	24.8	
303.450	37.1	QP	14.4	-30.2	21.3	0	100	Hori.	46.0	24.7	
303.450	37.1	QP	14.4	-30.2	21.3	0	100	Vert.	46.0	24.7	
602.400	36.9	QP	19.7	-28.2	28.4	0	100	Hori.	46.0	17.6	
602.400	36.8	QP	19.7	-28.2	28.3	0	100	Vert.	46.0	17.7	
606.900	36.9	QP	19.7	-28.2	28.4	0	100	Hori.	46.0	17.6	
606.900	36.9	QP	19.7	-28.2	28.4	0	100	Vert.	46.0	17.6	
903.600	36.3	QP	21.9	-26.2	32.0	0	100	Hori.	46.0	14.0	
903.600	36.2	QP	21.9	-26.2	31.9	0	100	Vert.	46.0	14.1	
910.350	36.2	QP	22.1	-26.2	32.1	0	100	Hori.	46.0	13.9	
910.350	36.2	QP	22.1	-26.2	32.1	0	100	Vert.	46.0	13.9	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
**Variation No. 11**  
(Reference data)

**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/11

Report No. : 30KE0045-HO-01  
Temp./Humi. : 25deg. C. / 65%  
Engineer : Satofumi Matsuyama

Mode / Remarks : RKES Receiving mode (312.1MHz, 314.35MHz). Worst-axis (Hor:X, Ver:X)

LIMIT : FCC15.109 (a) 3m, below 1GHz:QP, above 1GHz:PK  
FCC15.109 (a) 3m, below 1GHz:QP, above 1GHz:AV

— Horizontal  
— Vertical  
○ Horizontal  
× Vertical



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Gain					[dBuV/m]	[dB]	
			[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
1506.000	47.1	PK	25.3	-34.6	37.8	0	100	Hori.	73.9	36.1	
1506.000	47.4	PK	25.3	-34.6	38.1	0	100	Vert.	73.9	35.8	
1506.000	34.6	AV	25.3	-34.6	25.3	0	100	Hori.	53.9	28.6	
1506.000	34.7	AV	25.3	-34.6	25.4	0	100	Vert.	53.9	28.5	
1517.250	47.6	PK	25.4	-34.6	38.4	0	100	Hori.	73.9	35.5	
1517.250	47.5	PK	25.4	-34.6	38.3	0	100	Vert.	73.9	35.6	
1517.250	35.6	AV	25.4	-34.6	26.4	0	100	Hori.	53.9	27.5	
1517.250	35.6	AV	25.4	-34.6	26.4	0	100	Vert.	53.9	27.5	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
Variation No. 1

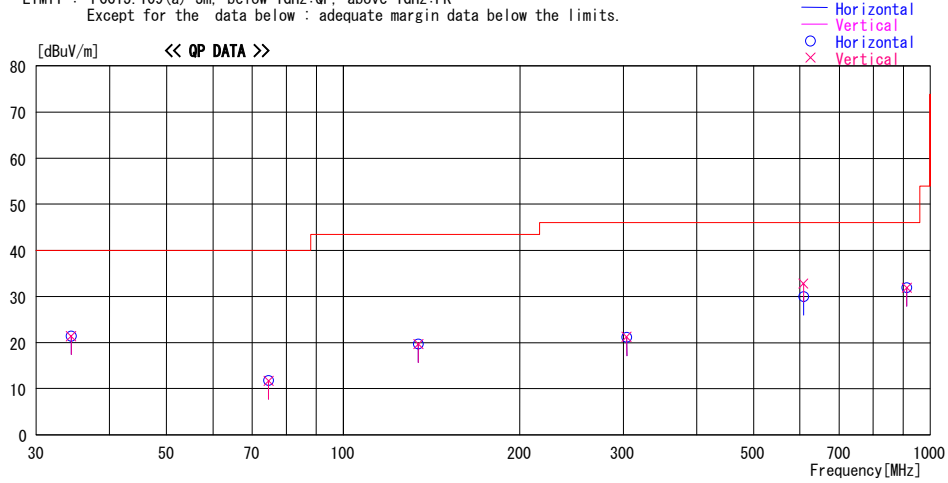
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/10

Report No. : 30KE0045-HO-01  
Temp./Humi. : 25deg. C. / 65%  
Engineer : Satofumi Matsuyama

Mode / Remarks : TPMS Receiving mode(314.98MHz). Worst-axis(Hor:X. Ver:X)

LIMIT : FCC15.109(a) 3m. below 1GHz:QP. above 1GHz:PK  
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss & Gain [dB]							
34.407	39.1	QP	16.2	-33.9	21.4	0	300	Hori.	40.0	18.6	
34.407	39.1	QP	16.2	-33.9	21.4	0	100	Vert.	40.0	18.6	
74.668	38.4	QP	6.5	-33.1	11.8	0	300	Hori.	40.0	28.2	
74.668	38.3	QP	6.5	-33.1	11.7	0	100	Vert.	40.0	28.3	
134.241	37.7	QP	13.9	-31.9	19.7	0	300	Hori.	43.5	23.8	
134.241	37.7	QP	13.9	-31.9	19.7	0	100	Vert.	43.5	23.8	
304.080	37.0	QP	14.4	-30.2	21.2	0	100	Vert.	46.0	24.8	
304.080	37.0	QP	14.4	-30.2	21.2	0	100	Hori.	46.0	24.8	
608.160	41.3	QP	19.7	-28.2	32.8	170	100	Vert.	46.0	13.2	
608.160	38.5	QP	19.7	-28.2	30.0	317	220	Hori.	46.0	16.0	
912.240	36.0	QP	22.1	-26.2	31.9	0	100	Vert.	46.0	14.1	
912.240	36.0	QP	22.1	-26.2	31.9	0	100	Hori.	46.0	14.1	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
Variation No. 1

**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/11

Report No. : 30KE0045-HO-01  
Temp./Humi. : 25deg. C. / 65%  
Engineer : Satofumi Matsuyama

Mode / Remarks : TPMS Receiving mode(314.98MHz), Worst-axis(Hor:X, Ver:X)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK  
FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV

— Horizontal  
— Vertical  
○ Horizontal  
× Vertical



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit		Margin	Comment
			Factor [dB/m]	Loss & Gain [dB]					[dBuV/m]	[dB]		
1520.400	47.9	PK	25.4	-34.6	38.7	0	100	Hori.	73.9	35.2		
1520.400	48.0	PK	25.4	-34.6	38.8	0	100	Vert.	73.9	35.1		
1520.400	35.2	AV	25.4	-34.6	26.0	0	100	Hori.	53.9	27.9		
1520.400	35.2	AV	25.4	-34.6	26.0	0	100	Vert.	53.9	27.9		

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
**Variation No. 3**  
(Reference data)

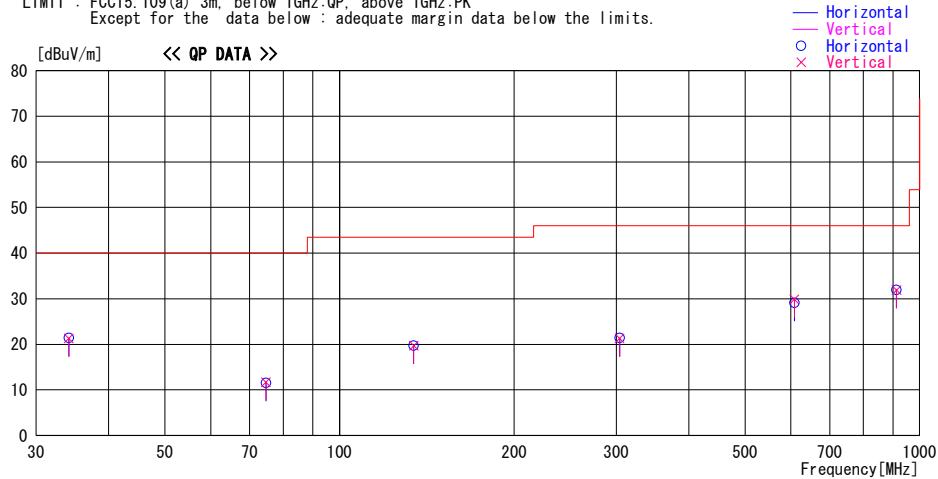
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/10

Report No. : 30KE0045-HO-01  
Temp./Humi. : 25deg. C. / 65%  
Engineer : Satofumi Matsuyama

Mode / Remarks : TPMS Receiving mode(314.98MHz). Worst-axis(Hor:X, Ver:X)

LIMIT : FCC15.109(a) 3m. below 1GHz:QP, above 1GHz:PK  
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Gain					[dBuV/m]	[dB]	
34.141	39.1	QP	16.2	-33.9	21.4	0	300	Hori.	40.0	18.6	
34.141	39.0	QP	16.2	-33.9	21.3	0	100	Vert.	40.0	18.7	
74.689	38.2	QP	6.5	-33.1	11.6	0	300	Hori.	40.0	28.4	
74.689	38.3	QP	6.5	-33.1	11.7	0	100	Vert.	40.0	28.3	
134.250	37.7	QP	13.9	-31.9	19.7	0	300	Hori.	43.5	23.8	
134.250	37.7	QP	13.9	-31.9	19.7	0	100	Vert.	43.5	23.8	
304.080	37.2	QP	14.4	-30.2	21.4	0	100	Hori.	46.0	24.6	
304.080	37.1	QP	14.4	-30.2	21.3	0	100	Vert.	46.0	24.7	
608.160	37.6	QP	19.7	-28.2	29.1	189	100	Hori.	46.0	16.9	
608.160	38.4	QP	19.7	-28.2	29.9	322	100	Vert.	46.0	16.1	
912.240	36.0	QP	22.1	-26.2	31.9	0	100	Hori.	46.0	14.1	
912.240	36.0	QP	22.1	-26.2	31.9	0	100	Vert.	46.0	14.1	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
**Variation No. 3**  
(Reference data)

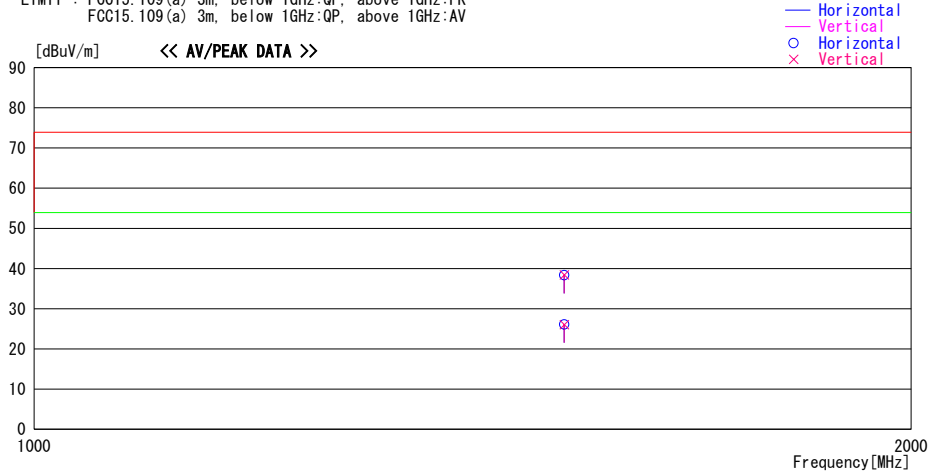
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/11

Report No. : 30KE0045-HO-01  
Temp./Humi. : 25deg.C. / 65%  
Engineer : Satofumi Matsuyama

Mode / Remarks : TPMS Receiving mode(314.98MHz), Worst-axis(Hor:X, Ver:X)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK  
FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Gain					[dBuV/m]	[dB]	
1520.400	47.6	PK	25.4	-34.6	38.4	0	100	Hori.	73.9	35.5	
1520.400	47.6	PK	25.4	-34.6	38.4	0	100	Vert.	73.9	35.5	
1520.400	35.3	AV	25.4	-34.6	26.1	0	100	Hori.	53.9	27.8	
1520.400	35.3	AV	25.4	-34.6	26.1	0	100	Vert.	53.9	27.8	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
**Variation No. 5**  
(Reference data)

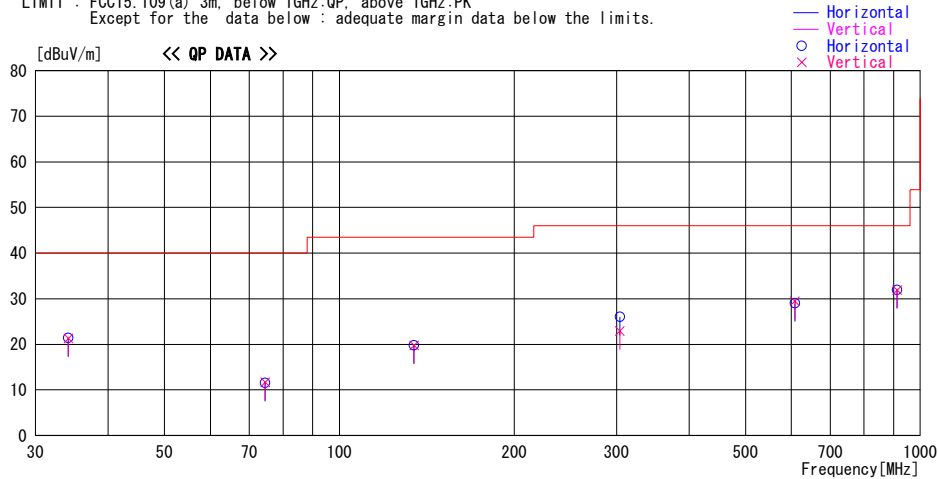
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/10

Report No. : 30KE0045-HO-01  
Temp./Humi. : 25deg. C. / 65%  
Engineer : Satofumi Matsuyama

Mode / Remarks : TPMS Receiving mode(314.98MHz). Worst-axis(Hor:X, Ver:X)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK  
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Gain					[dBuV/m]	[dB]	
34.178	39.0	QP	16.2	-33.9	21.3	0	100	Vert.	40.0	18.7	
34.178	39.1	QP	16.2	-33.9	21.4	0	300	Hori.	40.0	18.6	
74.558	38.3	QP	6.5	-33.1	11.7	0	100	Vert.	40.0	28.3	
74.558	38.2	QP	6.5	-33.1	11.6	0	300	Hori.	40.0	28.4	
134.476	37.7	QP	14.0	-31.9	19.8	0	100	Vert.	43.5	23.7	
134.476	37.7	QP	14.0	-31.9	19.8	0	300	Hori.	43.5	23.7	
304.080	41.8	QP	14.4	-30.2	26.0	294	100	Hori.	46.0	20.0	
304.080	38.7	QP	14.4	-30.2	22.9	217	100	Vert.	46.0	23.1	
608.160	37.5	QP	19.7	-28.2	29.0	276	100	Hori.	46.0	17.0	
608.160	38.0	QP	19.7	-28.2	29.5	326	100	Vert.	46.0	16.5	
912.240	36.0	QP	22.1	-26.2	31.9	0	100	Hori.	46.0	14.1	
912.240	36.0	QP	22.1	-26.2	31.9	0	100	Vert.	46.0	14.1	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
**Variation No. 5**  
(Reference data)

**DATA OF RADIATED EMISSION TEST**

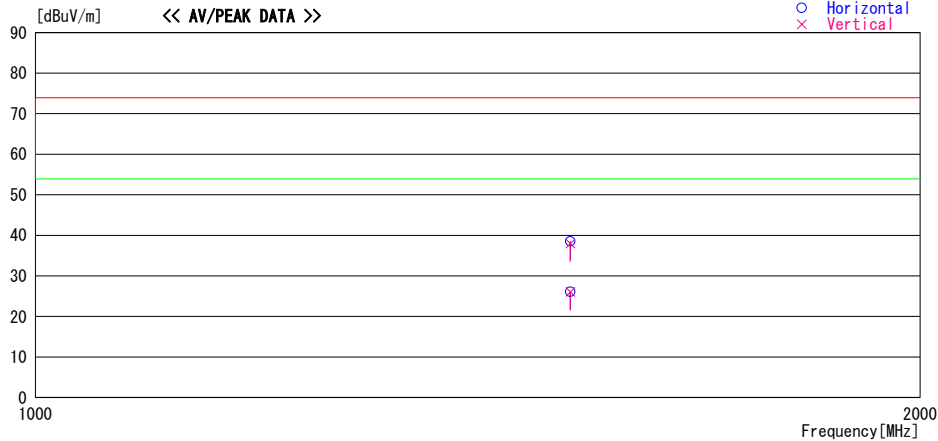
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/11

Report No. : 30KE0045-HO-01  
Temp./Humi. : 25deg. C. / 65%  
Engineer : Satofumi Matsuyama

Mode / Remarks : TPMS Receiving mode(314.98MHz). Worst-axis(Hor:X, Ver:X)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK  
FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV

— Horizontal  
— Vertical  
○ Horizontal  
× Vertical



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit	Margin	Comment
									[dBuV/m]	[dB]	
1520.400	47.8	PK	25.4	-34.6	38.6	0	100	Hori.	73.9	35.3	
1520.400	47.2	PK	25.4	-34.6	38.0	0	100	Vert.	73.9	35.9	
1520.400	35.3	AV	25.4	-34.6	26.1	0	100	Hori.	53.9	27.8	
1520.400	35.3	AV	25.4	-34.6	26.1	0	100	Vert.	53.9	27.8	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.



**Radiated Emission**  
**Variation No. 7**  
(Reference data)

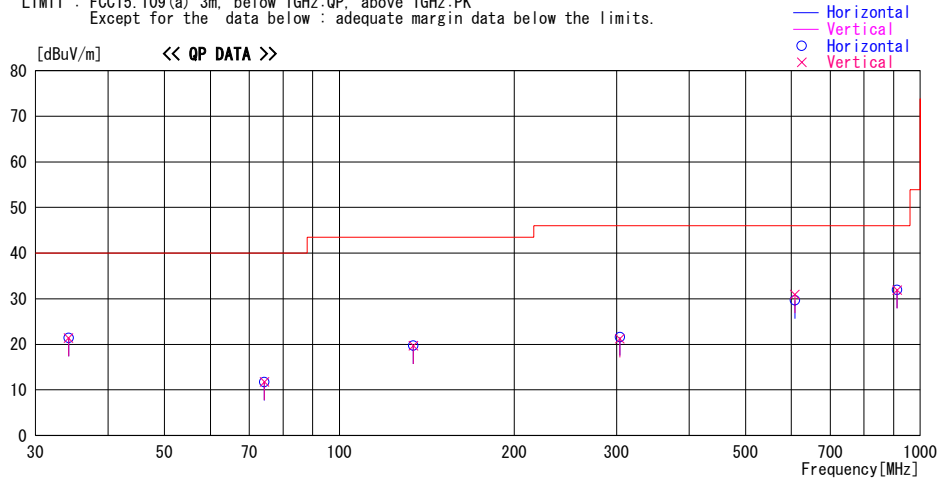
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/11

Report No. : 30KE0045-HO-01  
Temp./Humi. : 25deg. C. / 65%  
Engineer : Satofumi Matsuyama

Mode / Remarks : TPMS Receiving mode(314.98MHz). Worst-axis(Hor:X. Ver:X)

LIMIT : FCC15.109(a) 3m. below 1GHz:QP, above 1GHz:PK  
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Gain					[dBuV/m]	[dB]	
34.183	39.1	QP	16.2	-33.9	21.4	0	300	Hori.	40.0	18.6	
34.183	39.1	QP	16.2	-33.9	21.4	0	100	Vert.	40.0	18.6	
74.292	38.3	QP	6.5	-33.1	11.7	0	300	Hori.	40.0	28.3	
74.292	38.4	QP	6.5	-33.1	11.8	0	100	Vert.	40.0	28.2	
134.096	37.7	QP	13.9	-31.9	19.7	0	300	Hori.	43.5	23.8	
134.096	37.7	QP	13.9	-31.9	19.7	0	100	Vert.	43.5	23.8	
304.080	37.0	QP	14.4	-30.2	21.2	0	100	Vert.	46.0	24.8	
304.080	37.4	QP	14.4	-30.2	21.6	302	100	Hori.	46.0	24.4	
608.160	39.4	QP	19.7	-28.2	30.9	337	100	Vert.	46.0	15.1	
608.160	38.2	QP	19.7	-28.2	29.7	284	100	Hori.	46.0	16.3	
912.240	36.0	QP	22.1	-26.2	31.9	0	100	Vert.	46.0	14.1	
912.240	36.0	QP	22.1	-26.2	31.9	0	100	Hori.	46.0	14.1	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
**Variation No. 7**  
(Reference data)

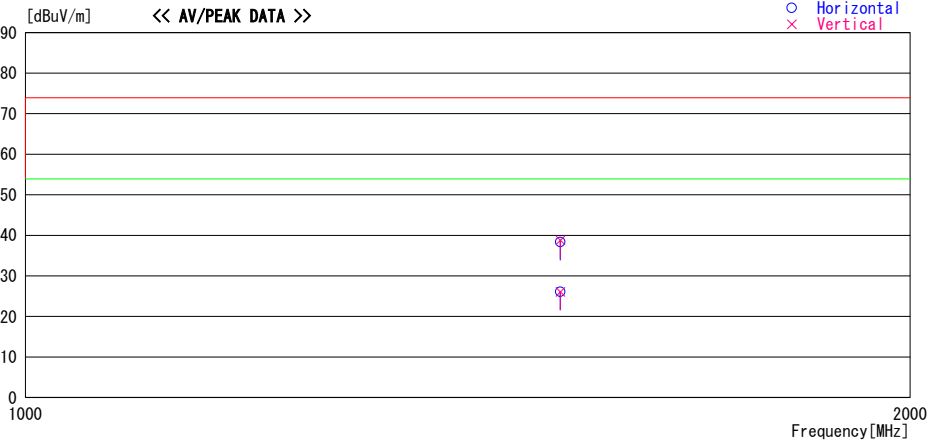
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/11

Report No. : 30KE0045-HO-01  
Temp./Humi. : 25deg. C. / 65%  
Engineer : Satofumi Matsuyama

Mode / Remarks : TPMS Receiving mode(314.98MHz). Worst-axis(Hor:X. Ver:X)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK  
FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit	Margin	Comment
									[dBuV/m]	[dB]	
1520.400	47.6	PK	25.4	-34.6	38.4	0	100	Hori.	73.9	35.5	
1520.400	48.0	PK	25.4	-34.6	38.8	0	100	Vert.	73.9	35.1	
1520.400	35.3	AV	25.4	-34.6	26.1	0	100	Hori.	53.9	27.8	
1520.400	35.3	AV	25.4	-34.6	26.1	0	100	Vert.	53.9	27.8	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
**Variation No. 11**  
(Reference data)

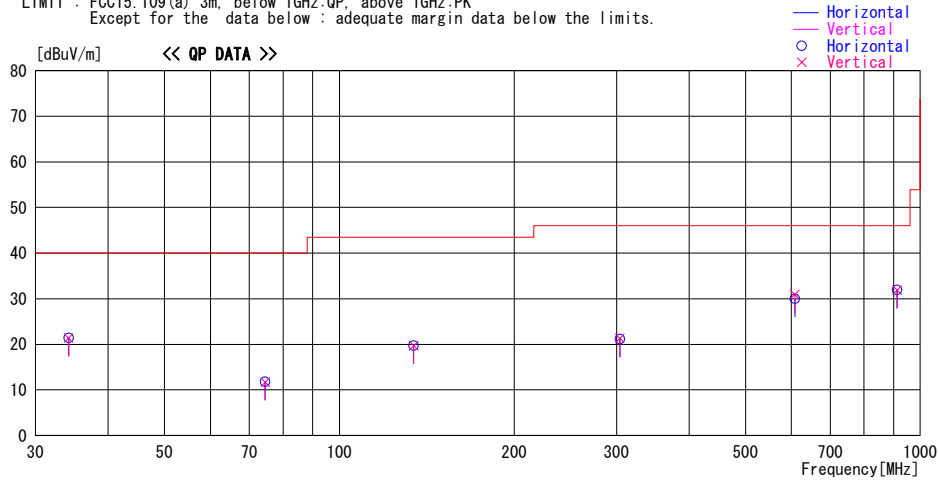
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/11

Report No. : 30KE0045-HO-01  
Temp./Humi. : 25deg. C. / 65%  
Engineer : Satofumi Matsuyama

Mode / Remarks : TPMS Receiving mode(314.98MHz). Worst-axis(Hor:X, Ver:X)

LIMIT : FCC15.109(a) 3m. below 1GHz:QP, above 1GHz:PK  
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Gain					[dBuV/m]	[dB]	
34.198	39.1	QP	16.2	-33.9	21.4	0	100	Vert.	40.0	18.6	
34.198	39.1	QP	16.2	-33.9	21.4	0	300	Hori.	40.0	18.6	
74.520	38.3	QP	6.5	-33.1	11.7	0	100	Vert.	40.0	28.3	
74.520	38.4	QP	6.5	-33.1	11.8	0	300	Hori.	40.0	28.2	
134.225	37.7	QP	13.9	-31.9	19.7	0	100	Vert.	43.5	23.8	
134.225	37.7	QP	13.9	-31.9	19.7	0	300	Hori.	43.5	23.8	
304.080	37.1	QP	14.4	-30.2	21.3	0	100	Vert.	46.0	24.7	
304.080	37.0	QP	14.4	-30.2	21.2	0	100	Hori.	46.0	24.8	
608.160	39.4	QP	19.7	-28.2	30.9	342	100	Vert.	46.0	15.1	
608.160	38.5	QP	19.7	-28.2	30.0	187	100	Hori.	46.0	16.0	
912.240	36.0	QP	22.1	-26.2	31.9	0	100	Vert.	46.0	14.1	
912.240	36.0	QP	22.1	-26.2	31.9	0	100	Hori.	46.0	14.1	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

**Radiated Emission**  
**Variation No. 11**  
(Reference data)

**DATA OF RADIATED EMISSION TEST**

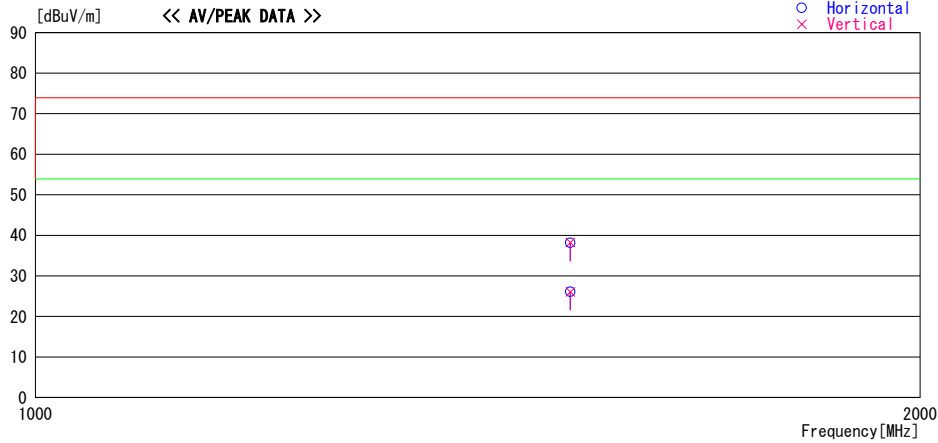
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2010/08/11

Report No. : 30KE0045-HO-01  
Temp./Humi. : 25deg. C. / 65%  
Engineer : Satofumi Matsuyama

Mode / Remarks : TPMS Receiving mode(314.98MHz). Worst-axis(Hor:X, Ver:X)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK  
FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV

— Horizontal  
— Vertical  
○ Horizontal  
× Vertical



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit	Margin	Comment
									[dBuV/m]	[dB]	
1520.400	47.4	PK	25.4	-34.6	38.2	0	100	Hori.	73.9	35.7	
1520.400	47.4	PK	25.4	-34.6	38.2	0	100	Vert.	73.9	35.7	
1520.400	35.3	AV	25.4	-34.6	26.1	0	100	Hori.	53.9	27.8	
1520.400	35.3	AV	25.4	-34.6	26.1	0	100	Vert.	53.9	27.8	

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

\*The limit is rounded down to one decimal place.  
\*The test result is rounded off to one or two decimal places, so some differences might be observed.

### **APPENDIX 3: Test instruments**

#### **EMI test equipment**

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MAEC-01	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 10m	DA-06881	RE	2010/07/02 * 12
MOS-01	Digital Humidity Indicator	N.T	NT-1800	MOS01	RE	2010/02/09 * 12
MJM-01	Measure	KDS	ES19-55	-	RE	-
COTS-MEMI	EMI measurement program	TSJ	TEPTO-DV	-	RE	-
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	100084	RE	2009/12/17 * 12
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	VHA9103200 7	RE	2009/10/03 * 12
KLA-04	Logperiodic Antenna	Schwarzbeck	USLP9143	361	RE	2010/07/24 * 12
MAT-08	Attenuator(6dB)	Weinschel Corp	2	BK7971	RE	2009/11/13 * 12
MCC-01	Coaxial Cable 0.1-3000MHz	Suhner/storm/Agilent /TSJ	-	-	RE	2009/10/09 * 12
MPA-20	Pre Amplifier	Elena	EPA-4020YA	030801	RE	2010/03/23 * 12
MHA-05	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	253	RE	2010/06/29 * 12
MCC-18	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	233010(1m) / 292410(5m)	RE	2009/09/16 * 12
MPA-01	Pre Amplifier	Agilent	8449B	3008A01671	RE	2010/02/12 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	US44300523	RE	2009/08/25 * 12

**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.**

**As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.**

**Test Item:**

**RE: Radiated emission**

**UL Japan, Inc.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124