APPENDIX 2: Data of EMI test

Radiated Emission

Variation No. 11, Internal Antenna

DATA OF RADIATED EMISSION TEST

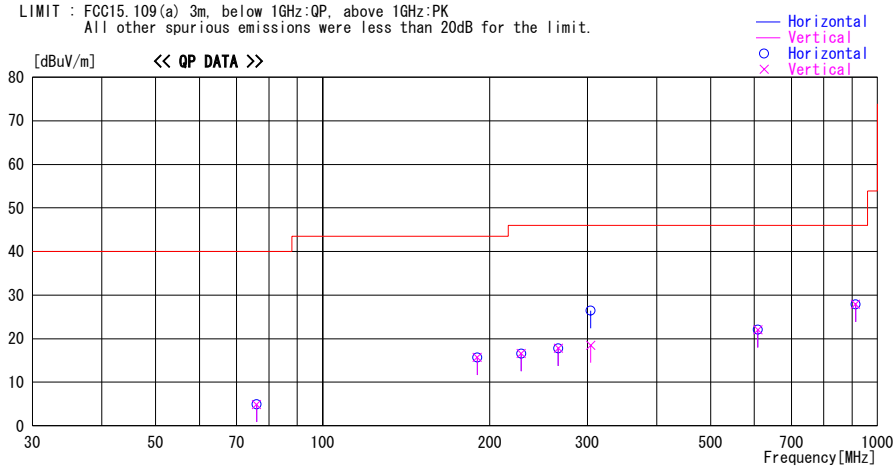
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/10

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 68%
Engineer : Takumi Shimada

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

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
76.000	22.8	QP	6.5	-24.4	4.9	0	300	Hori.	40.0	35.1	
76.000	22.8	QP	6.5	-24.4	4.9	0	100	Vert.	40.0	35.1	
190.000	22.2	QP	16.6	-23.1	15.7	0	300	Hori.	43.5	27.8	
190.000	22.2	QP	16.6	-23.1	15.7	0	100	Vert.	43.5	27.8	
228.000	22.3	QP	17.1	-22.8	16.6	0	300	Hori.	46.0	29.4	
228.000	22.3	QP	17.1	-22.8	16.6	0	100	Vert.	46.0	29.4	
266.000	22.2	QP	18.1	-22.5	17.8	0	300	Hori.	46.0	28.2	
266.000	22.2	QP	18.1	-22.5	17.8	0	100	Vert.	46.0	28.2	
304.280	32.6	QP	16.0	-22.2	26.4	26	150	Hori.	46.0	19.6	
304.280	24.7	QP	16.0	-22.2	18.5	75	100	Vert.	46.0	27.5	
608.560	22.5	QP	20.2	-20.6	22.1	0	100	Hori.	46.0	23.9	
608.560	22.4	QP	20.2	-20.6	22.0	0	100	Vert.	46.0	24.0	
912.840	22.2	QP	24.1	-18.4	27.9	0	100	Hori.	46.0	18.1	
912.840	22.2	QP	24.1	-18.4	27.9	0	100	Vert.	46.0	18.1	

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, Internal Antenna

DATA OF RADIATED EMISSION TEST

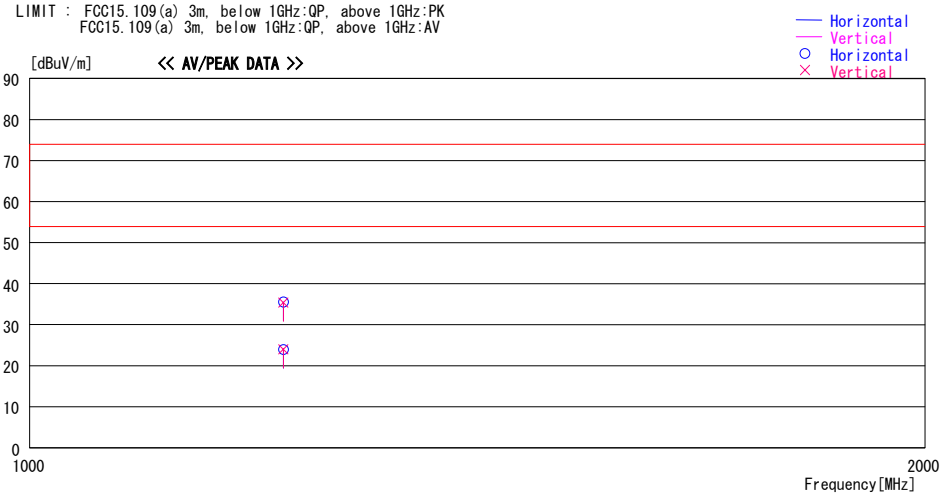
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/11

Report No. : 30LE0017-HO-01

Temp./Humi. : 24deg.C / 68%
Engineer : Takayuki Shimada

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

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 [dBuV/m]	Margin [dB]	Comment
1217.120	43.1	PK	24.4	-31.9	35.6	0	100	Hori.	73.9	38.3	
1217.120	31.5	AV	24.4	-31.9	24.0	0	100	Hori.	53.9	29.9	
1217.120	42.9	PK	24.4	-31.9	35.4	0	100	Vert.	73.9	38.5	
1217.120	31.5	AV	24.4	-31.9	24.0	0	100	Vert.	53.9	29.9	

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, External Antenna

DATA OF RADIATED EMISSION TEST

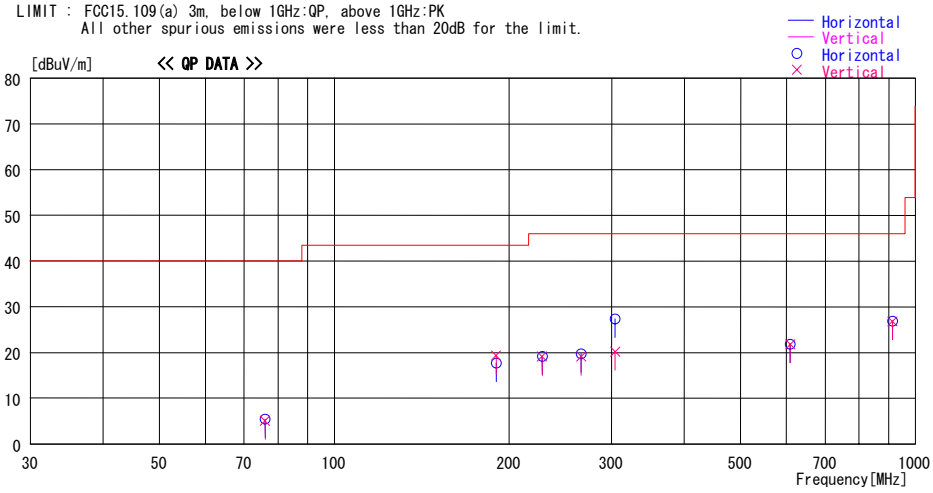
UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2010/08/31

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 68%
Engineer : Tomohisa Nakagawa

Mode / Remarks : TPMS Receiving mode(314.98MHz),Ext Ant(Hor:Y-axis, Ver:Y-axis), EUT(Hor:Y-axis, Ver:Z-axis)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
76.000	23.4	QP	6.4	-24.4	5.4	353	300	Hori.	40.0	34.6	
76.000	23.1	QP	6.4	-24.4	5.1	0	100	Vert.	40.0	34.9	
190.000	24.3	QP	16.5	-23.1	17.7	160	165	Hori.	43.5	25.8	
190.000	26.0	QP	16.5	-23.1	19.4	356	100	Vert.	43.5	24.1	
228.000	24.4	QP	17.3	-22.5	19.2	93	143	Hori.	46.0	26.8	
228.000	24.3	QP	17.3	-22.5	19.1	6	100	Vert.	46.0	26.9	
266.000	23.7	QP	18.2	-22.2	19.7	93	118	Hori.	46.0	26.3	
266.000	23.1	QP	18.2	-22.2	19.1	262	100	Vert.	46.0	26.9	
304.280	34.7	QP	14.4	-21.8	27.3	76	100	Hori.	46.0	18.7	
304.280	27.6	QP	14.4	-21.8	20.2	286	100	Vert.	46.0	25.8	
608.560	22.3	QP	19.6	-20.1	21.8	0	100	Vert.	46.0	24.2	NS
608.560	22.3	QP	19.6	-20.1	21.8	76	100	Hori.	46.0	24.2	NS
912.840	21.8	QP	22.5	-17.5	26.8	76	100	Hori.	46.0	19.2	NS
912.840	21.8	QP	22.5	-17.5	26.8	0	100	Vert.	46.0	19.2	NS

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, External Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 68%
Engineer : Tomohisa Nakagawa

Mode / Remarks : TPMS Receiving mode(314.98MHz),Ext Ant(Hor:Y-axis, Ver:Y-axis), EUT(Hor:Y-axis, Ver:Z-axis)

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 [dBuV/m]	Margin [dB]	Comment
1217.120	44.3	PK	25.9	-32.7	37.5	0	100	Hori.	73.9	36.4	
1217.120	44.0	PK	25.9	-32.7	37.2	0	100	Vert.	73.9	36.7	
1217.120	31.2	AV	25.9	-32.7	24.4	0	100	Hori.	53.9	29.5	
1217.120	31.3	AV	25.9	-32.7	24.5	0	100	Vert.	53.9	29.4	

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, Internal Antenna

(Reference data)

DATA OF RADIATED EMISSION TEST

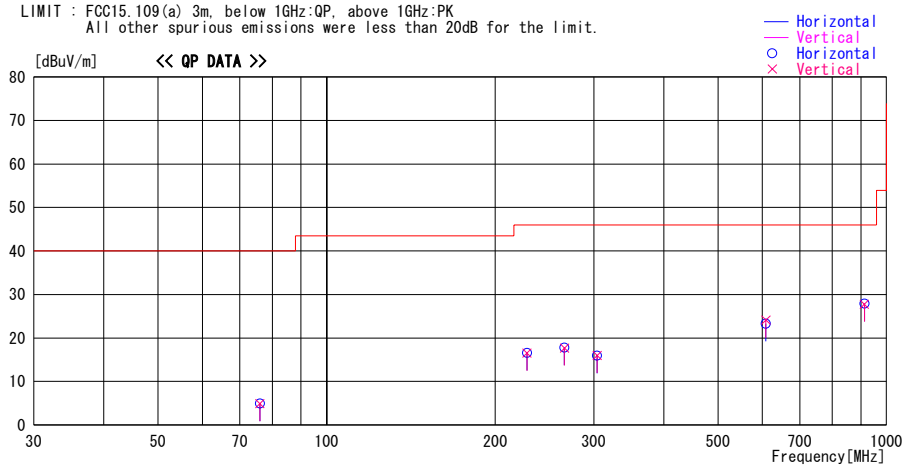
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/10

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 68%
Engineer : Takumi Shimada

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

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
76.000	22.8	QP	6.5	-24.4	4.9	0	300	Hori.	40.0	35.1	
76.000	22.8	QP	6.5	-24.4	4.9	0	100	Vert.	40.0	35.1	
228.000	22.3	QP	17.1	-22.8	16.6	0	300	Hori.	46.0	29.4	
228.000	22.2	QP	17.1	-22.8	16.5	0	100	Vert.	46.0	29.5	
266.000	22.2	QP	18.1	-22.5	17.8	0	300	Hori.	46.0	28.2	
266.000	22.1	QP	18.1	-22.5	17.7	0	100	Vert.	46.0	28.3	
304.280	22.1	QP	16.0	-22.2	15.9	0	100	Hori.	46.0	30.1	
304.280	22.2	QP	16.0	-22.2	16.0	0	100	Vert.	46.0	30.0	
608.560	23.7	QP	20.2	-20.6	23.3	304	156	Hori.	46.0	22.7	
608.560	24.5	QP	20.2	-20.6	24.1	195	100	Vert.	46.0	21.9	
912.840	22.2	QP	24.1	-18.4	27.9	0	100	Hori.	46.0	18.1	
912.840	22.1	QP	24.1	-18.4	27.8	0	100	Vert.	46.0	18.2	

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, Internal Antenna

(Reference data)

DATA OF RADIATED EMISSION TEST

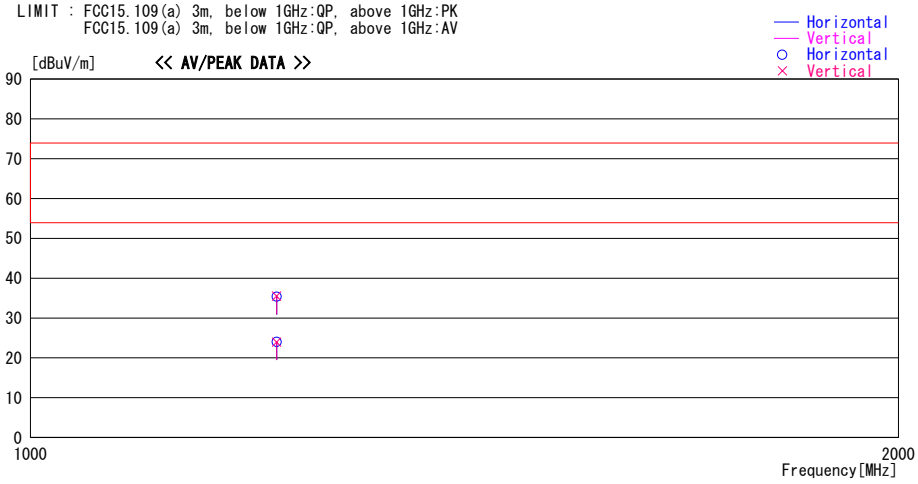
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/11

Report No. : 30LE0017-HO-01

Temp./Humi. : 24deg.C / 68%
Engineer : Takayuki Shimada

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

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 [dBuV/m]	Margin [dB]	Comment
1217.120	42.9	PK	24.4	-31.9	35.4	0	100	Hori.	73.9	38.5	
1217.120	31.5	AV	24.4	-31.9	24.0	0	100	Hori.	53.9	29.9	
1217.120	43.0	PK	24.4	-31.9	35.5	0	100	Vert.	73.9	38.4	
1217.120	31.5	AV	24.4	-31.9	24.0	0	100	Vert.	53.9	29.9	

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, External Antenna

(Reference data)

DATA OF RADIATED EMISSION TEST

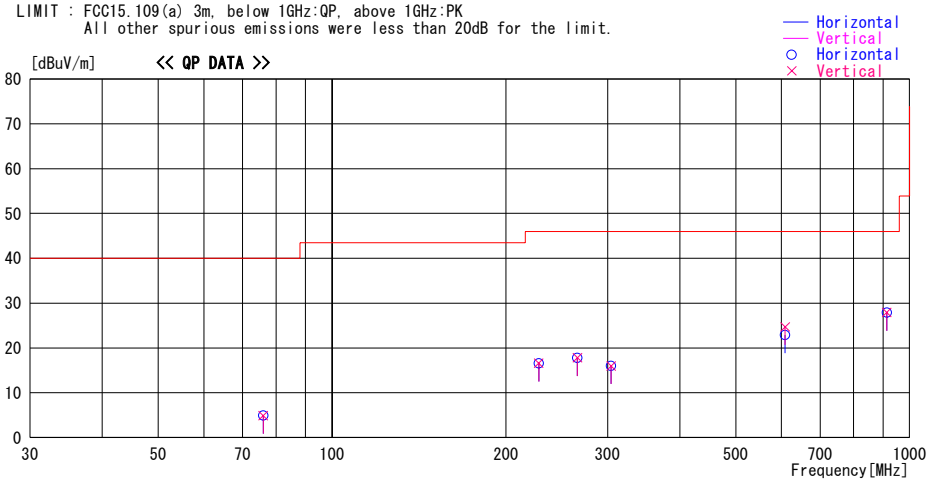
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/10

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 68%
Engineer : Takumi Shimada

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

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
76.000	22.8	QP	6.5	-24.4	4.9	0	300	Hori.	40.0	35.1	
76.000	22.8	QP	6.5	-24.4	4.9	0	100	Vert.	40.0	35.1	
228.000	22.3	QP	17.1	-22.8	16.6	0	300	Hori.	46.0	29.4	
228.000	22.3	QP	17.1	-22.8	16.6	0	100	Vert.	46.0	29.4	
266.000	22.2	QP	18.1	-22.5	17.8	0	300	Hori.	46.0	28.2	
266.000	22.2	QP	18.1	-22.5	17.8	0	100	Vert.	46.0	28.2	
304.280	22.2	QP	16.0	-22.2	16.0	0	100	Hori.	46.0	30.0	
304.280	22.2	QP	16.0	-22.2	16.0	0	100	Vert.	46.0	30.0	
608.560	23.3	QP	20.2	-20.6	22.9	300	195	Hori.	46.0	23.1	
608.560	25.1	QP	20.2	-20.6	24.7	197	100	Vert.	46.0	21.3	
912.840	22.2	QP	24.1	-18.4	27.9	0	100	Hori.	46.0	18.1	
912.840	22.2	QP	24.1	-18.4	27.9	0	100	Vert.	46.0	18.1	

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, External Antenna

(Reference data)

DATA OF RADIATED EMISSION TEST

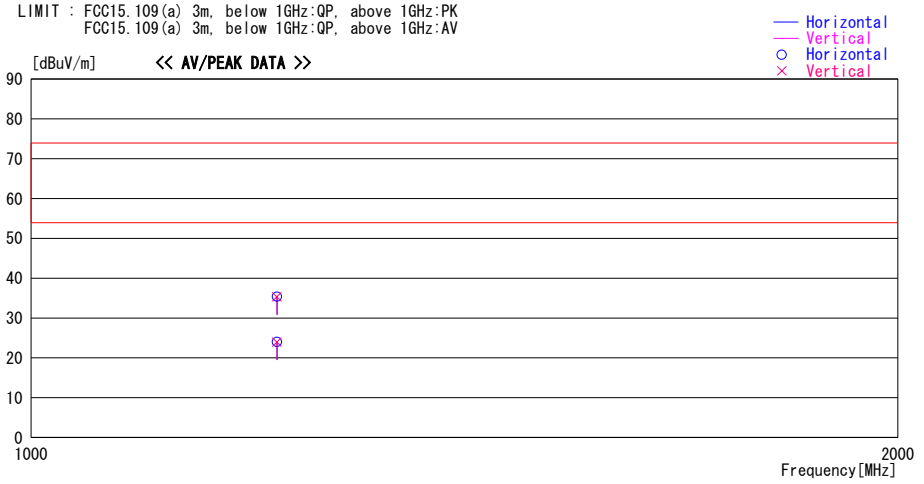
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/11

Report No. : 30LE0017-HO-01

Temp./Humi. : 24deg.C / 68%
Engineer : Takayuki Shimada

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

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 [dBuV/m]	Margin [dB]	Comment
1217.120	42.9	PK	24.4	-31.9	35.4	0	100	Hori.	73.9	38.5	
1217.120	31.5	AV	24.4	-31.9	24.0	0	100	Hori.	53.9	29.9	
1217.120	42.8	PK	24.4	-31.9	35.3	0	100	Vert.	73.9	38.6	
1217.120	31.5	AV	24.4	-31.9	24.0	0	100	Vert.	53.9	29.9	

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, Internal Antenna

(Reference data)

DATA OF RADIATED EMISSION TEST

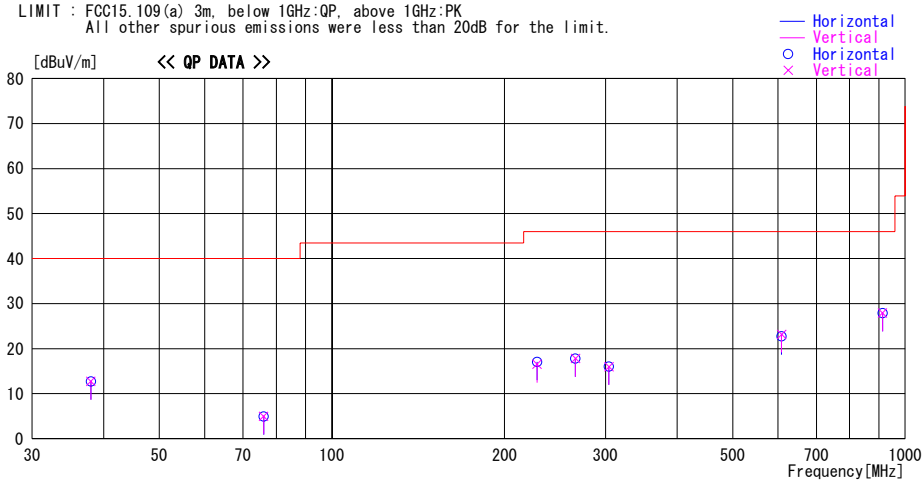
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/10

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 68%
Engineer : Takumi Shimada

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

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
38.000	22.2	QP	15.4	-24.9	12.7	0	300	Hori.	40.0	27.3	
38.000	22.2	QP	15.4	-24.9	12.7	0	100	Vert.	40.0	27.3	
76.000	22.8	QP	6.5	-24.4	4.9	0	300	Hori.	40.0	35.1	
76.000	22.9	QP	6.5	-24.4	5.0	0	100	Vert.	40.0	35.0	
228.000	22.8	QP	17.1	-22.8	17.1	0	300	Hori.	46.0	28.9	
228.000	22.2	QP	17.1	-22.8	16.5	0	100	Vert.	46.0	29.5	
266.000	22.2	QP	18.1	-22.5	17.8	0	300	Hori.	46.0	28.2	
266.000	22.2	QP	18.1	-22.5	17.8	0	100	Vert.	46.0	28.2	
304.280	22.2	QP	16.0	-22.2	16.0	0	100	Hori.	46.0	30.0	
304.280	22.2	QP	16.0	-22.2	16.0	0	100	Vert.	46.0	30.0	
608.560	23.1	QP	20.2	-20.6	22.7	309	140	Hori.	46.0	23.3	
608.560	23.6	QP	20.2	-20.6	23.2	202	100	Vert.	46.0	22.8	
912.840	22.2	QP	24.1	-18.4	27.9	0	100	Hori.	46.0	18.1	
912.840	22.2	QP	24.1	-18.4	27.9	0	100	Vert.	46.0	18.1	

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.

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Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Radiated Emission

Variation No. 7, Internal Antenna

(Reference data)

DATA OF RADIATED EMISSION TEST

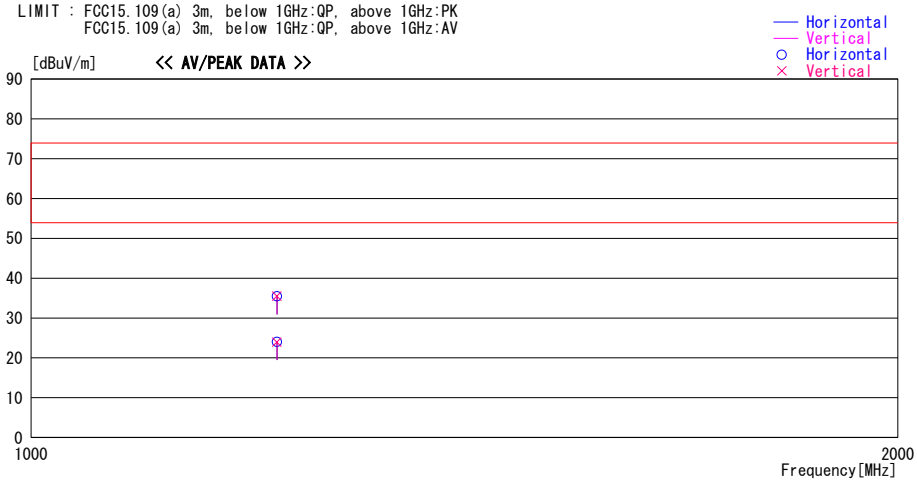
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/11

Report No. : 30LE0017-HO-01

Temp./Humi. : 24deg.C / 68%
Engineer : Takayuki Shimada

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

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 [dBuV/m]	Margin [dB]	Comment
1217.120	43.0	PK	24.4	-31.9	35.5	0	100	Hori.	73.9	38.4	
1217.120	31.5	AV	24.4	-31.9	24.0	0	100	Hori.	53.9	29.9	
1217.120	43.0	PK	24.4	-31.9	35.5	0	100	Vert.	73.9	38.4	
1217.120	31.5	AV	24.4	-31.9	24.0	0	100	Vert.	53.9	29.9	

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. 15, Internal Antenna

(Reference data)

DATA OF RADIATED EMISSION TEST

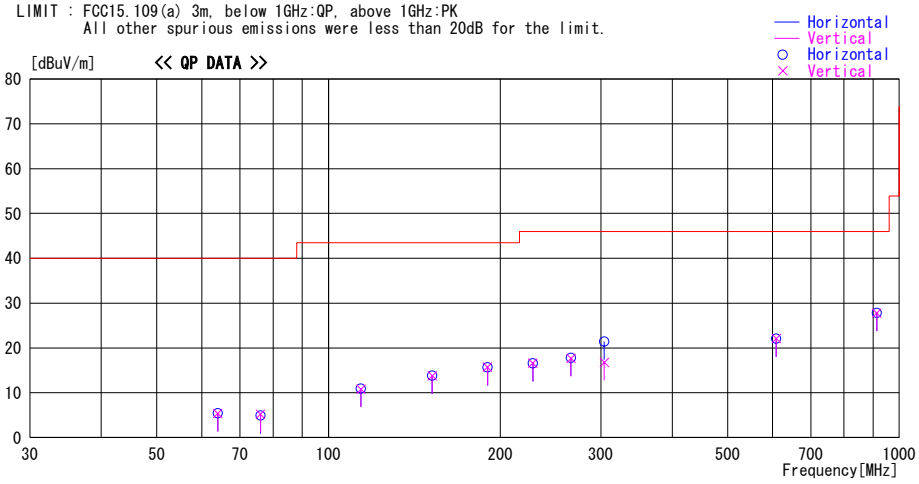
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/10

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 68%
Engineer : Takumi Shimada

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

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
64.000	22.5	QP	7.4	-24.5	5.4	0	300	Hori.	40.0	34.6	
64.000	22.5	QP	7.4	-24.5	5.4	171	100	Vert.	40.0	34.6	
76.000	22.8	QP	6.5	-24.4	4.9	0	300	Hori.	40.0	35.1	
76.000	23.1	QP	6.5	-24.4	5.2	171	100	Vert.	40.0	34.8	
114.000	22.4	QP	12.4	-23.9	10.9	0	300	Hori.	43.5	32.6	
114.000	22.3	QP	12.4	-23.9	10.8	171	100	Vert.	43.5	32.7	
152.000	22.1	QP	15.1	-23.4	13.8	0	300	Hori.	43.5	29.7	
152.000	22.1	QP	15.1	-23.4	13.8	171	100	Vert.	43.5	29.7	
190.000	22.2	QP	16.6	-23.1	15.7	0	300	Hori.	43.5	27.8	
190.000	22.2	QP	16.6	-23.1	15.7	171	100	Vert.	43.5	27.8	
228.000	22.3	QP	17.1	-22.8	16.6	0	300	Hori.	46.0	29.4	
228.000	22.3	QP	17.1	-22.8	16.6	0	100	Vert.	46.0	29.4	
266.000	22.2	QP	18.1	-22.5	17.8	0	300	Hori.	46.0	28.2	
266.000	22.1	QP	18.1	-22.5	17.7	0	100	Vert.	46.0	28.3	
304.280	27.6	QP	16.0	-22.2	21.4	186	100	Hori.	46.0	24.6	
304.280	23.0	QP	16.0	-22.2	16.8	83	100	Vert.	46.0	29.2	
608.560	22.5	QP	20.2	-20.6	22.1	0	100	Hori.	46.0	23.9	
608.560	22.5	QP	20.2	-20.6	22.1	0	100	Vert.	46.0	23.9	
912.840	22.1	QP	24.1	-18.4	27.8	0	100	Hori.	46.0	18.2	
912.840	22.1	QP	24.1	-18.4	27.8	0	100	Vert.	46.0	18.2	

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. 15, Internal Antenna

(Reference data)

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DATA OF RADIATED EMISSION TEST

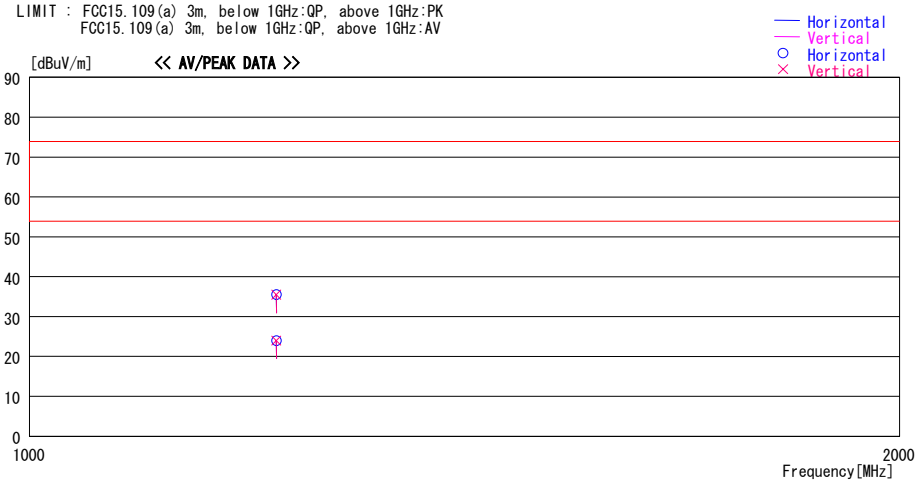
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/11

Report No. : 30LE0017-HO-01

Temp./Humi. : 24deg.C / 68%
Engineer : Takayuki Shimada

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

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 [dBuV/m]	Margin [dB]	Comment
1217.120	43.1	PK	24.4	-31.9	35.6	0	100	Hori.	73.9	38.3	
1217.120	31.5	AV	24.4	-31.9	24.0	0	100	Hori.	53.9	29.9	
1217.120	43.0	PK	24.4	-31.9	35.5	0	100	Vert.	73.9	38.4	
1217.120	31.5	AV	24.4	-31.9	24.0	0	100	Vert.	53.9	29.9	

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. 23, Internal Antenna

(Reference data)

DATA OF RADIATED EMISSION TEST

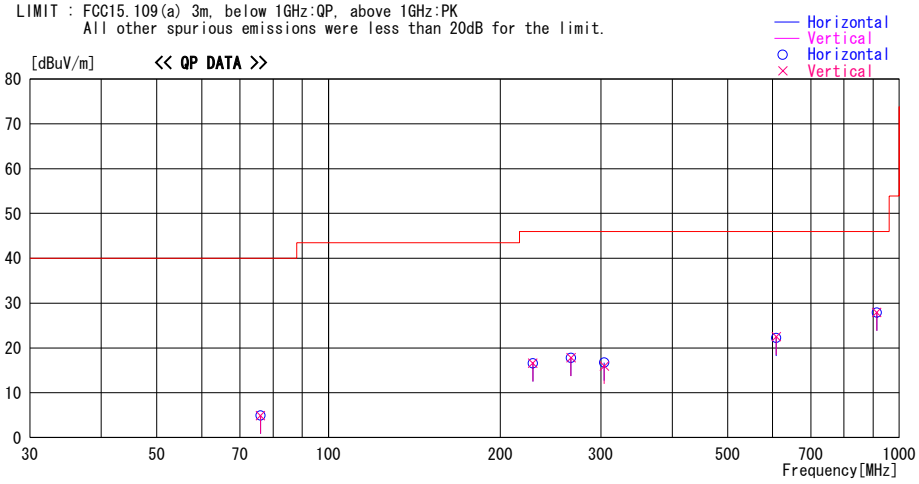
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/10

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 68%
Engineer : Takumi Shimada

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

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
76.000	22.8	QP	6.5	-24.4	4.9	0	300	Hori.	40.0	35.1	
76.000	22.8	QP	6.5	-24.4	4.9	0	100	Vert.	40.0	35.1	
228.000	22.3	QP	17.1	-22.8	16.6	0	300	Hori.	46.0	29.4	
228.000	22.3	QP	17.1	-22.8	16.6	0	100	Vert.	46.0	29.4	
266.000	22.2	QP	18.1	-22.5	17.8	0	300	Hori.	46.0	28.2	
266.000	22.2	QP	18.1	-22.5	17.8	0	100	Vert.	46.0	28.2	
304.280	22.9	QP	16.0	-22.2	16.7	271	100	Hori.	46.0	29.3	
304.280	22.2	QP	16.0	-22.2	16.0	0	100	Vert.	46.0	30.0	
608.560	22.6	QP	20.2	-20.6	22.2	0	100	Hori.	46.0	23.8	
608.560	22.9	QP	20.2	-20.6	22.5	203	100	Vert.	46.0	23.5	
912.840	22.2	QP	24.1	-18.4	27.9	0	100	Hori.	46.0	18.1	
912.840	22.2	QP	24.1	-18.4	27.9	0	100	Vert.	46.0	18.1	

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.

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Radiated Emission

Variation No. 23, Internal Antenna

(Reference data)

DATA OF RADIATED EMISSION TEST

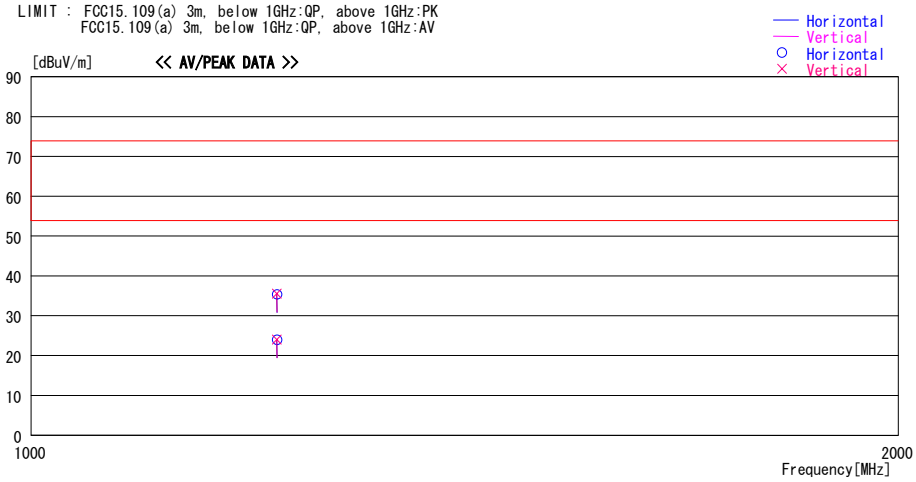
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/11

Report No. : 30LE0017-HO-01

Temp./Humi. : 24deg.C / 68%
Engineer : Takayuki Shimada

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

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 [dBuV/m]	Margin [dB]	Comment
1217.120	42.9	PK	24.4	-31.9	35.4	0	100	Hori.	73.9	38.5	
1217.120	31.5	AV	24.4	-31.9	24.0	0	100	Hori.	53.9	29.9	
1217.120	43.0	PK	24.4	-31.9	35.5	0	100	Vert.	73.9	38.4	
1217.120	31.5	AV	24.4	-31.9	24.0	0	100	Vert.	53.9	29.9	

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.

Antenna Terminal Conducted Emission

Variation No. 11

DATA OF RADIATED EMISSION TEST

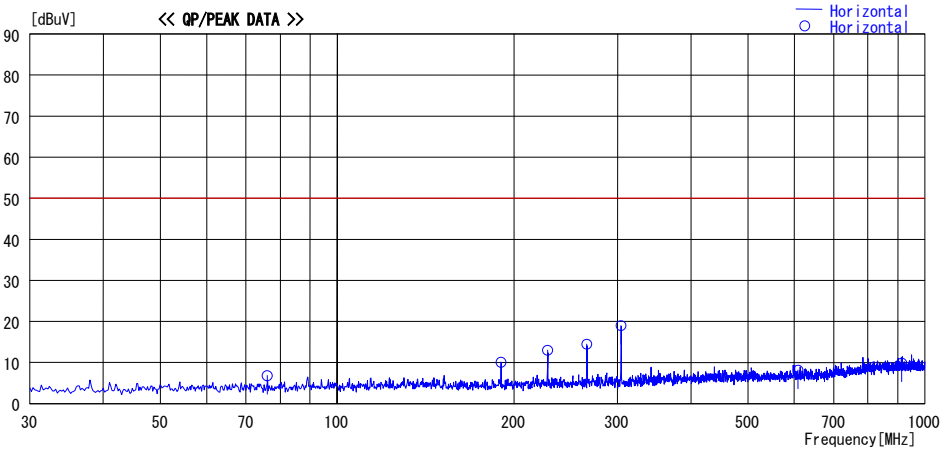
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/08

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 54%
Engineer : Takayuki Shimada

Mode / Remarks : TPMS Receiving mode(314.98MHz), RBW/VBW:100kHz/300kHz(below 1GHz), 1MHz/3MHz(above 1GHz)

LIMIT : FCC15.111 Antenna terminal measurement
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV]	Margin [dB]	Comment
76.000	31.2	PK	-	-24.4	6.8	0	100	Hori.	50.0	43.2	
190.000	33.2	PK	-	-23.1	10.1	0	100	Hori.	50.0	39.9	
228.000	35.8	PK	-	-22.8	13.0	0	100	Hori.	50.0	37.0	
266.000	37.0	PK	-	-22.5	14.5	0	100	Hori.	50.0	35.5	
304.280	41.2	PK	-	-22.2	19.0	0	100	Hori.	50.0	31.0	
608.560	28.8	PK	-	-20.6	8.2	0	100	Hori.	50.0	41.8	
912.840	28.3	PK	-	-18.4	9.9	0	100	Hori.	50.0	40.1	NS

CALCULATION:RESULT = READING + 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.

Antenna Terminal Conducted Emission

Variation No. 11

DATA OF RADIATED EMISSION TEST

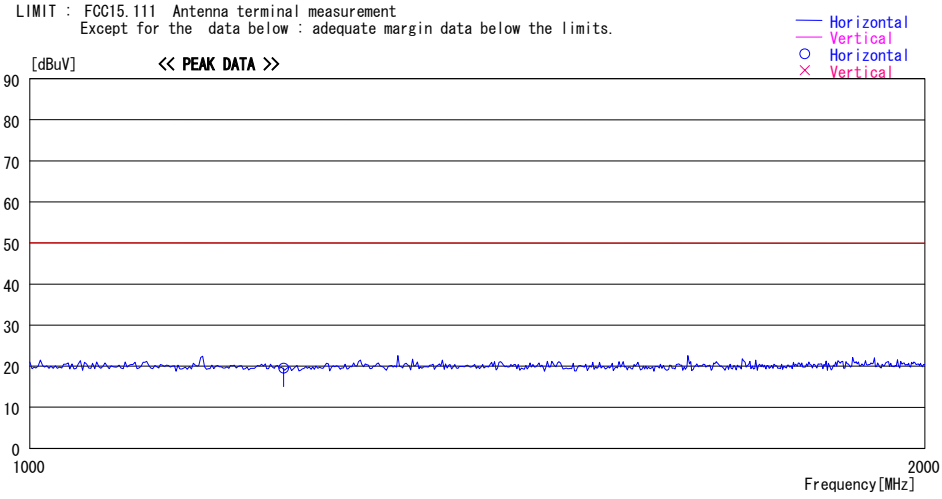
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/08

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 54%
Engineer : Takayuki Shimada

Mode / Remarks : TPMS Receiving mode(314.98MHz), RBW/VBW:100kHz/300kHz(below 1GHz), 1MHz/3MHz(above 1GHz)

LIMIT : FCC15.111 Antenna terminal measurement
Except for the data below : adequate margin data below the limits.



Frequency	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV]	[Deg]	[cm]		[dBuV]	[dB]	
1217.120	43.0	PK	-	-23.4	19.6	0	100	Hori.	50.0	30.4	

CALCULATION:RESULT = READING + 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.

Antenna Terminal Conducted Emission

Variation No. 3

(Reference data)

DATA OF RADIATED EMISSION TEST

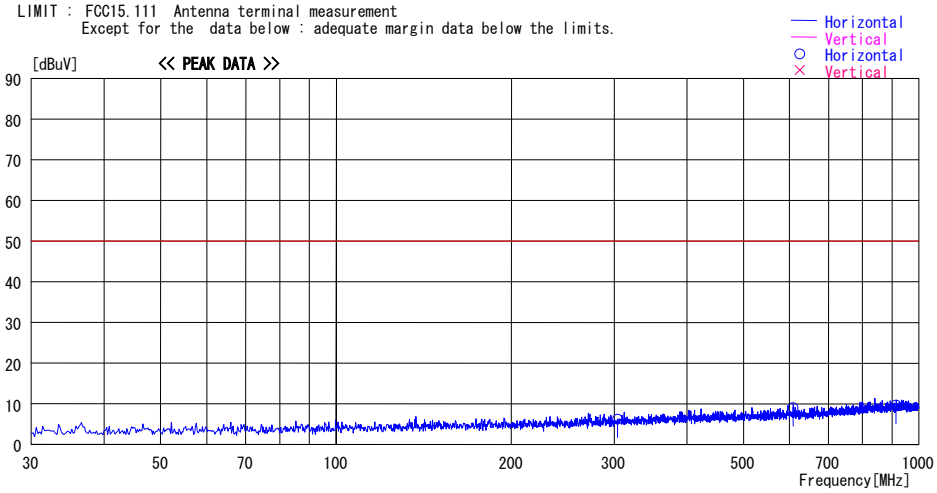
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/08

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 54%
Engineer : Takayuki Shimada

Mode / Remarks : TPMS Receiving mode(314.98MHz), RBW/VBW:100kHz/300kHz(below 1GHz), 1MHz/3MHz(above 1GHz)

LIMIT : FCC15.111 Antenna terminal measurement
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV]	Margin [dB]	Comment
304.280	28.5	PK	-	-22.2	6.3	0	100	Hori.	50.0	43.7	
608.560	29.7	PK	-	-20.6	9.1	0	100	Hori.	50.0	40.9	
912.840	28.1	PK	-	-18.4	9.7	0	100	Hori.	50.0	40.3	NS

CALCULATION:RESULT = READING + 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.

Antenna Terminal Conducted Emission

Variation No. 3

(Reference data)

-

DATA OF RADIATED EMISSION TEST

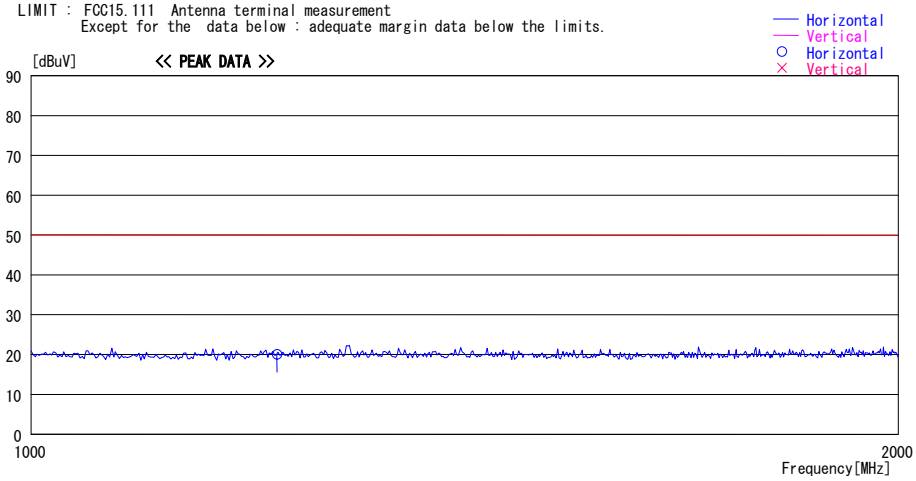
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/08

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 54%
Engineer : Takayuki Shimada

Mode / Remarks : TPMS Receiving mode(314.98MHz), RBW/VBW:100kHz/300kHz(below 1GHz), 1MHz/3MHz(above 1GHz)

LIMIT : FCC15.111 Antenna terminal measurement
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV]	Margin [dB]	Comment
1217.120	43.5	PK	-	-23.4	20.1	0	100	Hori.	50.0	29.9	

CALCULATION:RESULT = READING + 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.

Antenna Terminal Conducted Emission

Variation No. 7

(Reference data)

DATA OF RADIATED EMISSION TEST

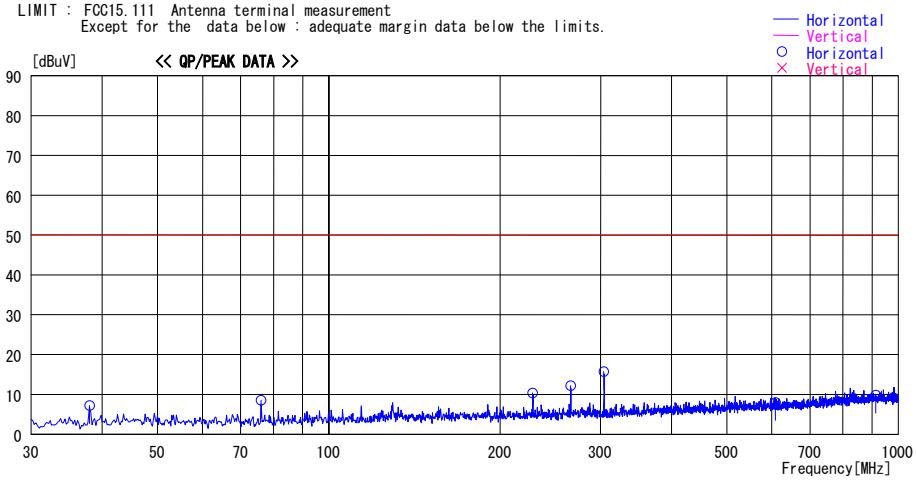
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/08

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 54%
Engineer : Takayuki Shimada

Mode / Remarks : TPMS Receiving mode(314.98MHz), RBW/VBW:100kHz/300kHz(below 1GHz), 1MHz/3MHz(above 1GHz)

LIMIT : FCC15.111 Antenna terminal measurement
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV]	Margin [dB]	Comment
38.000	32.1	PK	-	-24.9	7.2	0	100	Hori.	50.0	42.8	
76.000	33.0	PK	-	-24.4	8.6	0	100	Hori.	50.0	41.4	
228.000	33.2	PK	-	-22.8	10.4	0	100	Hori.	50.0	39.6	
266.000	34.7	PK	-	-22.5	12.2	0	100	Hori.	50.0	37.8	
304.280	37.9	PK	-	-22.2	15.7	0	100	Hori.	50.0	34.3	
608.560	28.6	PK	-	-20.6	8.0	0	100	Hori.	50.0	42.0	
912.840	28.2	PK	-	-18.4	9.8	0	100	Hori.	50.0	40.2	NS

CALCULATION:RESULT = READING + 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.

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Antenna Terminal Conducted Emission

Variation No. 7

(Reference data)

DATA OF RADIATED EMISSION TEST

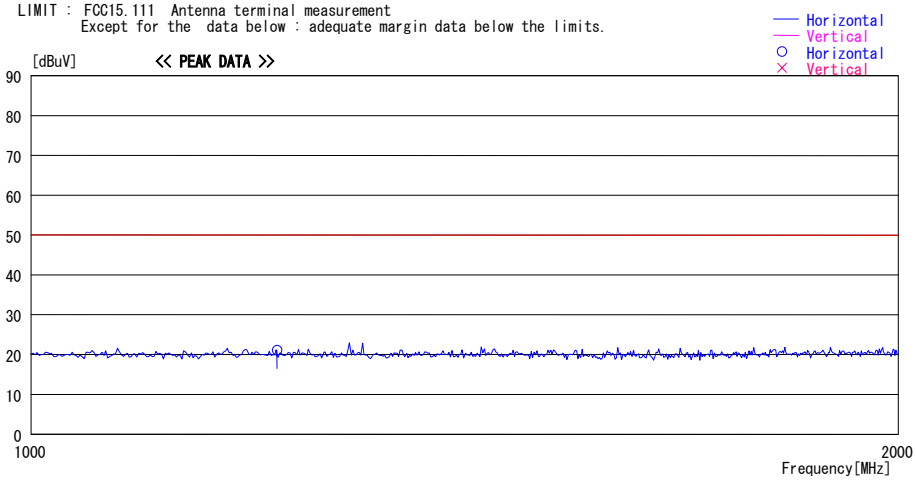
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/08

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 54%
Engineer : Takayuki Shimada

Mode / Remarks : TPMS Receiving mode(314.98MHz), RBW/VBW:100kHz/300kHz(below 1GHz), 1MHz/3MHz(above 1GHz)

LIMIT : FCC15.111 Antenna terminal measurement
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV]	Margin [dB]	Comment
1217.120	44.5	PK	-	-23.4	21.1	0	100	Hori.	50.0	28.9	

CALCULATION:RESULT = READING + 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.

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Antenna Terminal Conducted Emission

Variation No. 15

(Reference data)

DATA OF RADIATED EMISSION TEST

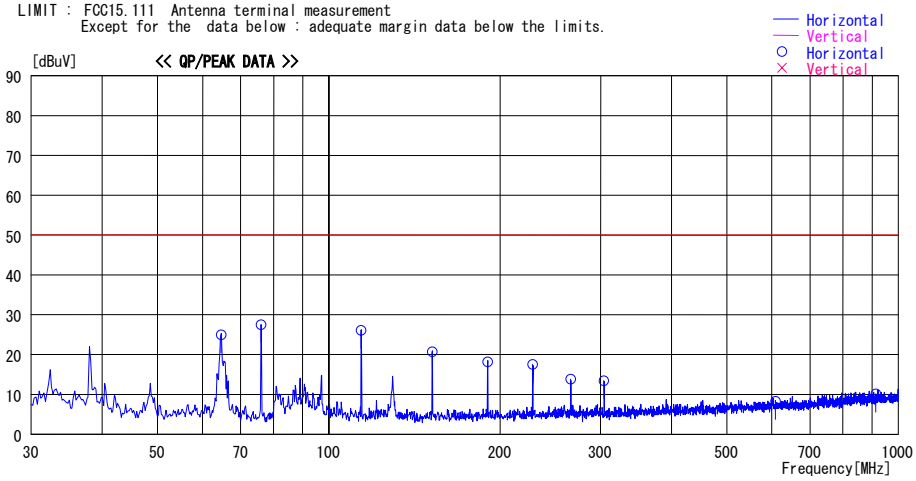
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/08

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 54%
Engineer : Takayuki Shimada

Mode / Remarks : TPMS Receiving mode(314.98MHz), RBW/VBW:100kHz/300kHz(below 1GHz), 1MHz/3MHz(above 1GHz)

LIMIT : FCC15.111 Antenna terminal measurement
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV]	Margin [dB]	Comment
64.700	49.5	PK	-	-24.5	25.0	0	100	Hori.	50.0	25.0	
76.000	52.0	PK	-	-24.4	27.6	0	100	Hori.	50.0	22.4	
114.000	50.0	PK	-	-23.9	26.1	0	100	Hori.	50.0	23.9	
152.000	44.1	PK	-	-23.4	20.7	0	100	Hori.	50.0	29.3	
190.000	41.3	PK	-	-23.1	18.2	0	100	Hori.	50.0	31.8	
228.000	40.4	PK	-	-22.8	17.6	0	100	Hori.	50.0	32.4	
266.000	36.3	PK	-	-22.5	13.8	0	100	Hori.	50.0	36.2	
304.280	35.7	PK	-	-22.2	13.5	0	100	Hori.	50.0	36.5	
608.560	28.9	PK	-	-20.6	8.3	0	100	Hori.	50.0	41.7	
912.840	28.5	PK	-	-18.4	10.1	0	100	Hori.	50.0	39.9	NS

CALCULATION:RESULT = READING + 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.

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Antenna Terminal Conducted Emission

Variation No. 15

(Reference data)

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DATA OF RADIATED EMISSION TEST

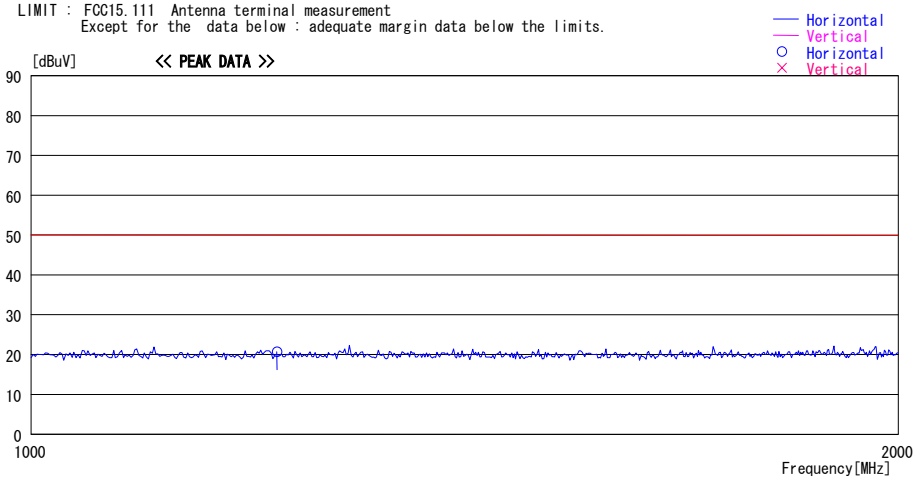
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/08

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 54%
Engineer : Takayuki Shimada

Mode / Remarks : TPMS Receiving mode(314.98MHz), RBW/VBW:100kHz/300kHz(below 1GHz), 1MHz/3MHz(above 1GHz)

LIMIT : FCC15.111 Antenna terminal measurement
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV]	Margin [dB]	Comment
1217.120	44.1	PK	-	-23.4	20.7	0	100	Hori.	50.0	29.3	

CALCULATION:RESULT = READING + 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.

Antenna Terminal Conducted Emission

Variation No. 23

(Reference data)

DATA OF RADIATED EMISSION TEST

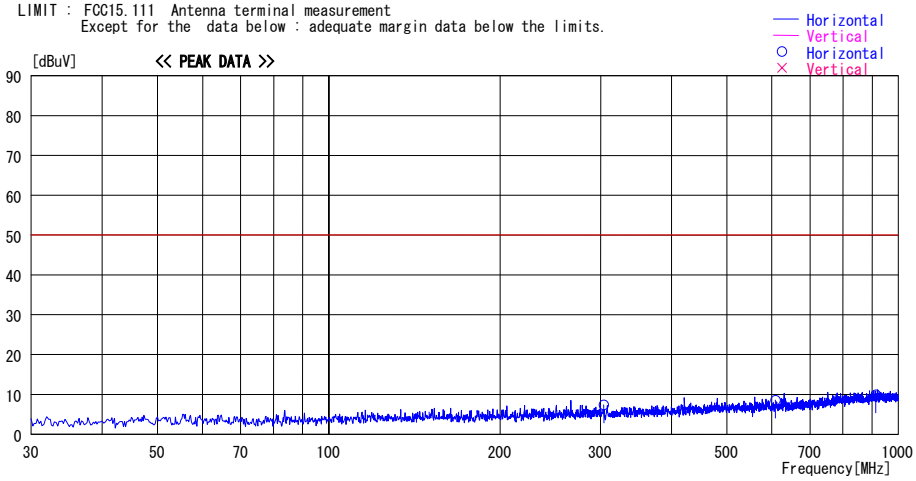
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/08

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 54%
Engineer : Takayuki Shimada

Mode / Remarks : TPMS Receiving mode(314.98MHz), RBW/VBW:100kHz/300kHz(below 1GHz), 1MHz/3MHz(above 1GHz)

LIMIT : FCC15.111 Antenna terminal measurement
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV]	Margin [dB]	Comment
304.280	29.6	PK	-	-22.2	7.4	0	100	Hori.	50.0	42.6	
608.560	29.2	PK	-	-20.6	8.6	0	100	Hori.	50.0	41.4	
912.840	28.3	PK	-	-18.4	9.9	0	100	Hori.	50.0	40.1	NS

CALCULATION:RESULT = READING + 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.

Antenna Terminal Conducted Emission

Variation No. 23

(Reference data)

-

DATA OF RADIATED EMISSION TEST

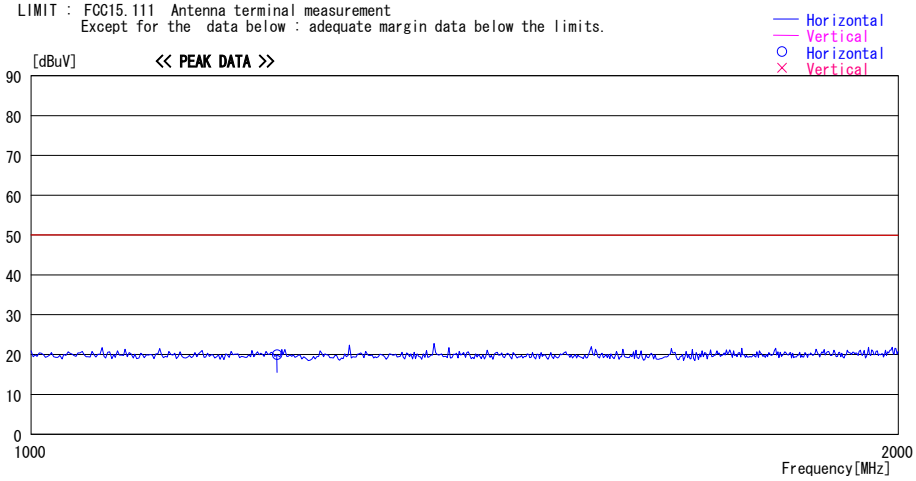
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2010/08/08

Report No. : 30LE0017-HO-01

Temp./Humi. : 25deg.C / 54%
Engineer : Takayuki Shimada

Mode / Remarks : TPMS Receiving mode(314.98MHz), RBW/VBW:100kHz/300kHz(below 1GHz), 1MHz/3MHz(above 1GHz)

LIMIT : FCC15.111 Antenna terminal measurement
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss& Gain [dB]	Level [dBuV]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV]	Margin [dB]	Comment
1217.120	43.4	PK	-	-23.4	20.0	0	100	Hori.	50.0	30.0	

CALCULATION:RESULT = READING + 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)
MOS-23	Thermo-Hygrometer	Custom	CTH-201	0004	AT	2009/12/22 * 12
COTS-MEMI	EMI measurement program	TSJ	TEPTO-DV	-	AT / RE	-
MSA-10	Spectrum Analyzer	Agilent	E4448A	MY46180655	AT/RE	2010/02/03 * 12
MPA-14	Pre Amplifier	SONOMA INSTRUMENT	310	260833	AT	2010/03/05 * 12
MCC-50	Coaxial cable	UL Japan	-	-	AT / RE	2010/03/18 * 12
MAT-51	Attenuator(6dB)	Weinschel	2	AS3557	AT / RE	2010/01/20 * 12
MPA-12	MicroWave System Amplifier	Agilent	83017A	MY39500780	AT / RE	2010/03/16 * 12
MCC-114	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	290212/4	AT	2010/08/05 * 12
MAT-22	Attenuator(10dB) 1-18GHz	Orient Microwave	BX10-0476-00	-	AT	2010/03/01 * 12
MAEC-04	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE	2010/02/02 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	-	RE	2010/02/09 * 12
MJM-07	Measure	PROMART	SEN1955	-	RE	-
MSA-05	Spectrum Analyzer	Advantest	R3273	160400285	RE	2009/12/15 * 12
MTR-07	Test Receiver	Rohde & Schwarz	ESCI	100635	RE	2009/10/23 * 12
MBA-05	Biconical Antenna	Schwarzbeck	BBA9106	1302	RE	2010/03/22 * 12
MLA-08	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	N/A	RE	2010/01/23 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	9120D-557	RE	2009/08/10 * 12
MCC-57	Microwave Cable	Suhner	SUCOFLEX104	246769(1m) / 292411(5m)	RE	2009/11/17 * 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
AT: Antenna Terminal Conducted test