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APPENDIX 2: Data of EMI test

Radiated Emission

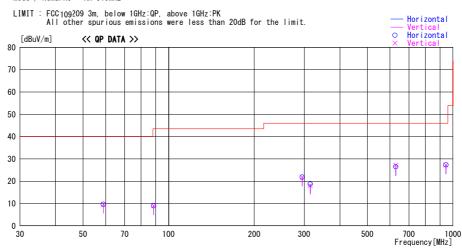
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber Date : 2011/02/09

Report No. : 31BE0219-H0-10

Temp. / Humi. : 22deg.C / 31% RH
Engineer : Motoya Imura

Mode / Remarks : Rx 315MHz



Frequency Read	Reading	DET	Antenna Factor	Loss& Gain	Level	Angle Hei	Height	Polar.	Limit	imit Margin	Comment
[MHz]	[dBuV]	DET		[dB/m] [dB] [dBuV/m] [Deg]	[Deal]	[cm]	[dBuV/m]	[dB]	Comment		
59. 015		QP	8.6	-21.5	9.6	0	100	Vert.	40.0	30.4	
59. 015		QP	8. 6	-21.5	9. 6	o o		Hori.	40.0	30. 4	
88. 524		QP	7. 9	-21.2	9.0	0		Vert.	43. 5		
88. 524			7. 9	-21.2	9. 0	ő			43. 5	34. 5	
295. 085			19.5	-19.0	21.8	0	300		46. 0	24. 2	
295. 085			19.5	-19.0	21.8	0	100	Vert.	46.0	24. 2	
314. 766	22. 3	QP	15. 4	-19.0	18.7	41	100	Hori.	46.0	27.3	
314. 766	21. 6	QP	15. 4	-19.0	18.0	114	100	Vert.	46.0	28.0	
629. 531	25. 1	QP	19.7	-18.4	26.4	202	100	Hori.	46.0	19.6	
629. 531	25. 9	QP	19.7	-18.4	27. 2	139	100	Vert.	46.0	18.8	
944. 298	21. 2	QP	22. 6	-16.5	27. 3	114	100	Vert.	46.0	18.7	
944. 298	21. 2	QP	22. 6	-16.5	27. 3	41	100	Hori.	46. 0	18.7	

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.

UL Japan, Inc.

Head Office EMC Lab.

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: 31BE0219-HO-10-A-R1 Test report No.

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Radiated Emission

DATA OF RADIATED EMISSION TEST

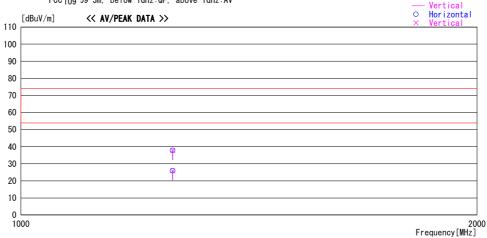
UL Japan, Inc. Head Office EMC Lab. No. 2 Semi Anechoic Chamber Date : 2011/C09

: 31BE0219-H0-10 Report No. Temp. / Humi. Engineer 22deg.C / 31% RH Motoya Imura

Mode / Remarks : Rx 315MHz

LIMIT : FCC1109)9 3m, below 1GHz:QP, above 1GHz:PK FCC109)9 3m, below 1GHz:QP, above 1GHz:AV

— Horizontal Horizontal



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]	
1259.064	44. 2	PK	24. 7	-31.1	37. 8	0	100	Hori.	73. 9		
1259.064	44. 2	PK	24. 7	-31.1	37. 8	0	100	Vert.	73. 9		
1259.064	32. 3	ΑV	24. 7	-31.1	25. 9			Hori.	53. 9		
1259.064	32. 3	ΑV	24. 7	-31.1	25. 9	0	100	Vert.	53. 9	28. 0	

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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APPENDIX 3: Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MAEC-02	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-06902	RE	2010/09/01 * 12
MOS-22	Thermo-Hygrometer	Custom	CTH-201	0003	RE	2010/02/09 * 12
MJM-05	Measure	PROMART	SEN1955	-	RE	-
COTS-MEMI	EMI measurement program	TSJ	TEPTO-DV	-	RE	-
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	100300	RE	2010/04/19 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	VHA91032008	RE	2010/10/11 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	201	RE	2010/10/11 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	-	RE	2010/02/22 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	BK7970	RE	2010/11/05 * 12
MPA-09	Pre Amplifier	Agilent	8447D	2944A10845	RE	2010/09/09 * 12
MHA-06	Horn Antenna 1- 18GHz	Schwarzbeck	BBHA9120D	254	RE	2011/01/16 * 12
MPA-10	Pre Amplifier	Agilent	8449B	3008A02142	RE	2010/09/30 * 12
MSA-10	Spectrum Analyzer	Agilent	E4448A	MY46180655	RE	2010/02/03 * 12
MCC-57	Microwave Cable	Suhner	SUCOFLEX104	267195/4(0.6m) / 292411(5m)	RE	2010/11/26 * 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

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