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Issued date : March 22, 2011
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APPENDIX 2: Data of EMI test

Radiated Emission below 30MHz (Fundamental and Spurious Emission)

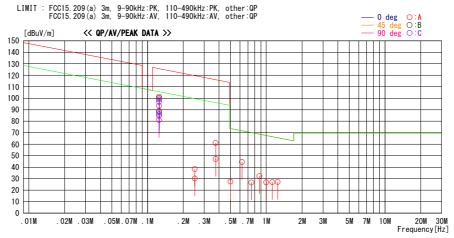
DATA OF RADIATED EMISSION TEST

JL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber Date : 2011/02/02

Report No. : 31BE0219-H0-12

Temp. / Humi. : 21deg. C. /31% RH
Engineer : Hiroyuki Furutaka

Mode / Remarks : Tx 125kHz Worst Axis(ECU:X-axis Antenna:X-axis)



| Freq. | Reading | DET | Ant. Fac | Loss | Gain | Result | Limit | Margin | Antenna | | Table | Comment |
|----------|---------|------|----------|------|-------|----------|----------|--------|---------|---|-------|---------|
| [MHz] | [dBuV] | | [dB/m] | [dB] | [dB] | [dBuV/m] | [dBuV/m] | [dB] | [deg] | | [deg] | |
| 0. 12500 | 107. 5 | PEAK | 20. 1 | 5. 9 | 32. 1 | 101.4 | 125. 7 | 24. 3 | 0 | Α | 7 | Worst |
| 0.12500 | 106. 2 | PEAK | 20. 1 | 5. 9 | 32. 1 | 100.1 | 125. 7 | 25. 6 | 45 | В | 325 | |
| 0.12500 | 102. 9 | PEAK | 20. 1 | 5. 9 | 32. 1 | 96.8 | 125. 7 | 28. 9 | 90 | С | 277 | |
| 0.12500 | 105.0 | PEAK | 20. 1 | 5. 9 | 32. 1 | 98.9 | 125. 7 | 26. 8 | 135 | С | 22 | |
| 0.12500 | 92.4 | AV | 20. 1 | 5.9 | 32. 1 | 86.3 | 105. 7 | 19. 4 | 135 | С | 32 | |
| 0.12500 | 90. 6 | AV | 20. 1 | 5.9 | 32. 1 | 84. 5 | 105. 7 | 21. 2 | 90 | С | 277 | |
| 0.12500 | 94.0 | AV | 20. 1 | 5.9 | 32. 1 | 87. 9 | 105. 7 | 17. 8 | 45 | В | 325 | |
| 0.12500 | 95. 1 | AV | 20. 1 | 5.9 | 32. 1 | 89.0 | 105. 7 | 16. 7 | 0 | Α | 7 | Worst |
| 0.12500 | 99. 4 | PEAK | 20. 1 | 5. 9 | 32. 1 | 93.3 | 125. 7 | 32. 4 | 0 | Α | 359 | |
| 0.12500 | 87. 2 | ΑV | 20. 1 | 5. 9 | 32. 1 | 81.1 | 105. 7 | 24. 6 | 0 | Α | | Hor i |
| 0. 25000 | 12. 4 | PEAK | 20. 0 | 6.0 | 0.0 | 38.4 | 119.7 | 81.3 | 0 | Α | 197 | |
| 0. 25000 | 4. 2 | ΑV | 20. 0 | 6.0 | 0.0 | 30. 2 | 99. 7 | 69. 5 | 0 | Α | 197 | |
| 0.37500 | 35. 2 | PEAK | 19. 9 | 6.0 | 0.0 | 61.1 | 116.1 | 55.0 | 0 | Α | 1 | |
| 0.37500 | 21. 2 | ΑV | 19. 9 | 6.0 | 0.0 | 47. 1 | 96. 1 | 49.0 | 0 | Α | 1 | |
| 0.50000 | 1.6 | QP | 19. 9 | 6.0 | 0.0 | 27.5 | 73. 6 | 46. 1 | 0 | Α | 7 | |
| 0.62500 | 18. 7 | QP | 19. 9 | 6.0 | 0.0 | 44. 6 | 71.7 | 27. 1 | 0 | Α | 8 | |
| 0.75000 | 0.8 | QP | 19. 9 | 6.0 | 0.0 | 26.7 | 70. 1 | 43. 4 | 0 | Α | 7 | |
| 0.87500 | 6. 2 | QP | 19. 9 | 6.0 | 0.0 | 32. 1 | 68. 7 | 36. 6 | 0 | Α | 3 | |
| 1.00000 | 0.9 | QP | 19. 9 | 6.0 | 0.0 | 26.8 | 67. 6 | 40.8 | 0 | Α | 7 | |
| 1.12500 | 1.0 | QP | 19. 9 | 6. 1 | 0.0 | 27.0 | 66. 5 | 39. 5 | 0 | Α | 5 | |
| 1.25000 | 1.1 | QP | 19. 9 | 6. 1 | 0.0 | 27. 1 | 65. 6 | 38. 5 | 0 | Α | 7 | |
| | | | | | | | | | | | | |
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^{*}The test result is rounded off to one or two decimal places, so some differences might be observed.

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Radiated Emission above 30MHz (Spurious Emission)

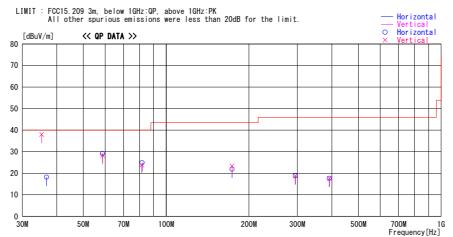
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber Date : 2011/02/03

Report No. : 31BE0219-H0-12

Temp. / Humi. : 23deg. C. / 30%RH
Engineer : Keisuke Kawamura

 ${\tt Mode / Remarks : Tx \ 125kHz \ Worst-Axis \ (ECU \ Hori:Z, Vert:Z \ , \ Antenna \ HoriX, Vert:X)}$



| 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] | |
| 36. 759 | 27. 3 | QP | 15.8 | -24.9 | 18. 2 | 79 | 400 | Hori. | 40.0 | 21.8 | |
| 35. 253 | 46.5 | QP | 16.4 | -24.9 | 38.0 | 228 | 100 | Vert. | 40.0 | 2.0 | |
| 58. 758 | 44. 9 | QP | 8.8 | -24.6 | 29. 1 | 359 | 363 | Hori. | 40.0 | 10.9 | |
| 58. 758 | 44. 1 | QP | 8.8 | -24.6 | 28.3 | | 100 | Vert. | 40.0 | 11.7 | |
| 81.514 | 41.4 | QP | 6.8 | | 23.8 | | 100 | Vert. | 40.0 | 16.2 | |
| 81.764 | | QP | 6.9 | -24.4 | 24. 9 | | 229 | Hori. | 40.0 | 15.1 | |
| 173. 511 | | | 15.9 | | 21.9 | | 187 | Hori. | 43.5 | | |
| 173. 511 | | QP | 15.9 | -23. 2 | 23.4 | 93 | 100 | Vert. | 43.5 | 20.1 | |
| 295. 085 | | | 19.3 | -22.3 | 18.8 | | 300 | Hori. | 46.0 | 27.2 | |
| 295. 085 | 21.8 | QP | 19.3 | -22.3 | 18.8 | 0 | 100 | Vert. | 46.0 | 27.2 | |
| 391.702 | 21.9 | | 17. 4 | -21.6 | 17. 7 | 0 | 100 | Vert. | 46.0 | 28.3 | |
| 391.702 | 21.9 | QP | 17. 4 | -21.6 | 17. 7 | 0 | 100 | Hori. | 46.0 | 28.3 | |
| | | | | | | | | | | | |

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

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-26dB Bandwidth and 99% Occupied Bandwidth

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

REPORT NO : 31BE0219-HO-12

TEST DISTANCE: 3m

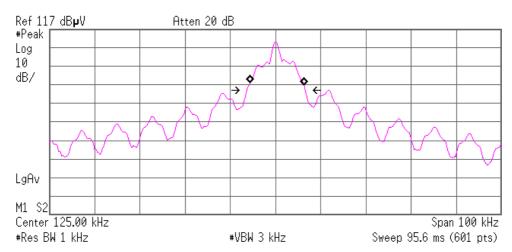
DATE : 02/02/2011 TEMPERATURE : 21 deg.C

MODE : Tx HUMIDITY : 31 % RH

Engineer : Hiroyuki Furutaka

| FREQ | -26dB Bandwidth | 99% Occupied Bandwidth |
|-------|-----------------|------------------------|
| [kHz] | [kHz] | [kHz] |
| 125.0 | 13.002 | 12.092 |

★ Agilent
 R T



Occupied Bandwidth 12.0917 kHz

Occ BW % Pwr 99.00 % x dB -26.00 dB

Transmit Freq Error 314.745 Hz x dB Bandwidth 13.002 kHz

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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-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 | - | |
| COTS-MEMI | EMI measurement program | TSJ | TEPTO-DV | - | RE | - | |
| MSA-05 | Spectrum Analyzer | Advantest | R3273 | 160400285 | RE | 2010/11/18 * 12 | |
| MTR-07 | Test Receiver | Rohde & Schwarz | ESCI | 100635 | RE | 2010/10/27 * 12 | |
| MLPA-02 | Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 836553/009 | RE | 2010/12/08 * 12 | |
| MCC-113 | Coaxial cable | Fujikura/Suhner/TSJ | 5D- 2W(10m)/SFM14 1(5m)/421- 010(1m)/sucofor m141- PE(1m)/RFM- E121(Switcher) | -/04178 | RE | 2010/07/21 * 12 | |
| MCC-31 | Coaxial cable | UL Japan | - | - | RE | 2010/07/20 * 12 | |
| MPA-14 | Pre Amplifier | SONOMA INSTRUMENT | 310 | 260833 RE | | 2010/03/05 * 12 | |
| MSA-03 | Spectrum Analyzer | Agilent | E4448A | MY44020357 | RE | 2010/11/30 * 12 | |
| MAT-51 | Attenuator(6dB) | Weinschel | 2 | AS3557 | RE | 2011/01/14 * 12 | |
| MBA-05 | Biconical Antenna | Schwarzbeck | BBA9106 | 1302 | RE | 2010/10/11 * 12 | |
| MLA-08 | Logperiodic Antenna | Schwarzbeck | UKLP9140-A | N/A | RE | 2010/10/11 * 12 | |
| MCC-50 | Coaxial cable | UL Japan | - | - | RE | 2010/03/18 * 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: Spurious emission

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