

**APPENDIX 2: Data of EMI test**

**Maximum Peak Output Power**

Test place Head Office EMC Lab. No.4 Measurement Room  
Report No. 30CE0152-HO-03  
Date 1/6/2010  
Temperature/ Humidity 22 deg.C./ 32%  
Engineer Tomotaka Sasagawa  
Mode Tx

Antenna 1

Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
				[dBm]	[mW]	[dBm]	[mW]	
2402.2	-2.51	0.00	10.09	7.58	5.73	30.00	1000	22.42
2441.8	-3.41	0.00	10.09	6.68	4.66	30.00	1000	23.32
2480.2	-2.65	0.00	10.09	7.44	5.55	30.00	1000	22.56

Antenna 2

Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
				[dBm]	[mW]	[dBm]	[mW]	
2402.2	-2.56	0.00	10.09	7.53	5.66	30.00	1000	22.47
2441.8	-3.67	0.00	10.09	6.42	4.39	30.00	1000	23.58
2480.2	-2.98	0.00	10.09	7.11	5.14	30.00	1000	22.89

Sample Calculation:  
Result = Reading + Attenuator

All comparizon were carried out on same frequency and measurement factors.

**Radiated Spurious Emission**  
**Lch**

Test place Head Office EMC Lab. No.3 and No.4 Semi Anechoic Chamber  
Report No. 30CE0152-HO-03  
Date 12/03/2009 01/06/2010  
Temperature/ Humidity 20 deg.C./ 40% 23 deg.C./ 48%  
Engineer Katsunori Okai Tomotaka Sasagawa  
(1-26.5GHz) (30-1000MHz)  
Mode Tx mode, 2402.2MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	69.420	QP	29.1	6.3	7.8	32.0	11.2	40.0	28.8	
Hori	115.859	QP	38.9	12.4	8.4	32.1	27.6	43.5	15.9	
Hori	146.640	QP	39.2	14.4	8.7	32.0	30.3	43.5	13.2	
Hori	479.903	QP	39.8	18.9	11.1	32.0	37.8	46.0	8.2	
Hori	527.504	QP	31.9	19.5	11.3	32.1	30.6	46.0	15.4	
Hori	624.106	QP	32.3	20.9	11.9	32.1	33.0	46.0	13.0	
Hori	2390.000	PK	46.4	27.2	2.7	32.3	44.0	73.9	29.9	
Hori	2400.000	PK	60.6	27.2	2.7	32.3	58.2	-	-	See 20dBc Data Sheet
Hori	4804.400	PK	42.0	31.7	4.7	31.4	47.0	73.9	26.9	
Hori	7206.600	PK	40.8	35.9	5.6	31.9	50.4	73.9	23.5	
Hori	9608.800	PK	41.1	38.4	6.6	32.7	53.4	73.9	20.5	
Hori	24022.000	PK	48.1	38.0	-1.6	30.5	54.0	73.9	19.9	
Hori	2390.000	AV	32.2	27.2	2.7	32.3	29.8	53.9	24.1	
Hori	2400.000	AV	56.0	27.2	2.7	32.3	53.6	-	-	See 20dBc Data Sheet
Hori	4804.400	AV	29.3	31.7	4.7	31.4	34.3	53.9	19.6	
Hori	7206.600	AV	28.7	35.9	5.6	31.9	38.3	53.9	15.6	
Hori	9608.800	AV	29.1	38.4	6.6	32.7	41.4	53.9	12.5	
Hori	24022.000	AV	33.9	38.0	-1.6	30.5	39.8	53.9	14.1	
Vert	71.988	QP	51.2	6.2	7.8	32.0	33.2	40.0	6.8	
Vert	108.921	QP	54.2	11.2	8.3	32.1	41.6	43.5	1.9	
Vert	143.241	QP	47.9	14.1	8.6	32.0	38.6	43.5	4.9	
Vert	479.932	QP	34.8	18.9	11.1	32.0	32.8	46.0	13.2	
Vert	527.931	QP	34.9	19.5	11.3	32.1	33.6	46.0	12.4	
Vert	623.412	QP	32.8	20.8	11.9	32.1	33.4	46.0	12.6	
Vert	2390.000	PK	46.5	27.2	2.7	32.3	44.1	73.9	29.8	
Vert	2400.000	PK	60.3	27.2	2.7	32.3	57.9	-	-	See 20dBc Data Sheet
Vert	4804.400	PK	42.4	31.7	4.7	31.4	47.4	73.9	26.5	
Vert	7206.600	PK	41.8	35.9	5.6	31.9	51.4	73.9	22.5	
Vert	9608.800	PK	42.4	38.4	6.6	32.7	54.7	73.9	19.2	
Vert	24022.000	PK	47.5	38.0	-1.6	30.5	53.4	73.9	20.5	
Vert	2390.000	AV	31.9	27.2	2.7	32.3	29.5	53.9	24.4	
Vert	2400.000	AV	55.7	27.2	2.7	32.3	53.3	-	-	See 20dBc Data Sheet
Vert	4804.400	AV	30.0	31.7	4.7	31.4	35.0	53.9	18.9	
Vert	7206.600	AV	28.7	35.9	5.6	31.9	38.3	53.9	15.6	
Vert	9608.800	AV	29.2	38.4	6.6	32.7	41.5	53.9	12.4	
Vert	24022.000	AV	33.9	38.0	-1.6	30.5	39.8	53.9	14.1	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20dB).

\*The 10th harmonic was not seen so the result was its base noise level.

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB

26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

**20dBc Data Sheet**

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	2402.200	PK	98.8	27.2	2.7	32.3	96.4	-	-	Carrier
Hori	2400.000	PK	57.4	27.2	2.7	32.3	55.0	76.4	21.4	
Vert	2402.200	PK	99.0	27.2	2.7	32.3	96.6	-	-	Carrier
Vert	2400.000	PK	56.8	27.2	2.7	32.3	54.4	76.6	22.2	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

## Radiated Spurious Emission Mch

Test place Head Office EMC Lab. No.3 and No.4 Semi Anechoic Chamber  
Report No. 30CE0152-HO-03  
Date 12/03/2009 01/06/2010  
Temperature/ Humidity 20 deg.C./ 40% 23 deg.C./ 48%  
Engineer Katsunori Okai Tomotaka Sasagawa  
(1-26.5GHz) (30-1000MHz)  
Mode Tx mode, 2441.8MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	69.690	QP	29.2	6.2	7.8	32.0	11.2	40.0	28.8	
Hori	116.669	QP	38.7	12.6	8.4	32.1	27.6	43.5	15.9	
Hori	146.640	QP	39.4	14.4	8.7	32.0	30.5	43.5	13.0	
Hori	479.203	QP	40.2	18.9	11.1	32.0	38.2	46.0	7.8	
Hori	527.993	QP	32.8	19.5	11.3	32.1	31.5	46.0	14.5	
Hori	623.800	QP	33.4	20.9	11.9	32.1	34.1	46.0	11.9	
Hori	2400.000	PK	63.8	27.2	2.7	32.3	61.4	-	-	See 20dBc Data Sheet
Hori	2483.500	PK	62.7	27.3	2.8	32.2	60.6	73.9	13.3	
Hori	4883.600	PK	41.1	31.8	4.6	31.4	46.1	73.9	27.8	
Hori	7325.400	PK	42.3	36.1	5.6	32.0	52.0	73.9	21.9	
Hori	9767.200	PK	43.2	38.6	6.6	32.7	55.7	73.9	18.2	
Hori	24418.000	PK	45.3	38.5	-1.5	30.2	52.1	73.9	21.8	
Hori	2400.000	AV	59.3	27.2	2.7	32.3	56.9	-	-	See 20dBc Data Sheet
Hori	2483.500	AV	51.3	27.3	2.8	32.2	49.2	53.9	4.7	
Hori	4883.600	AV	27.0	31.8	4.6	31.4	32.0	53.9	21.9	
Hori	7325.400	AV	28.5	36.1	5.6	32.0	38.2	53.9	15.7	
Hori	9767.200	AV	28.6	38.6	6.6	32.7	41.1	53.9	12.8	
Hori	24418.000	AV	33.4	38.5	-1.5	30.2	40.2	53.9	13.7	
Vert	71.998	QP	51.4	6.2	7.8	32.0	33.4	40.0	6.6	
Vert	108.872	QP	54.2	11.2	8.3	32.1	41.6	43.5	1.9	
Vert	141.887	QP	48.0	14.1	8.6	32.0	38.7	43.5	4.8	
Vert	479.212	QP	35.9	18.9	11.1	32.0	33.9	46.0	12.1	
Vert	527.504	QP	34.9	19.5	11.3	32.1	33.6	46.0	12.4	
Vert	624.106	QP	34.1	20.9	11.9	32.1	34.8	46.0	11.2	
Vert	2400.000	PK	63.0	27.2	2.7	32.3	60.6	-	-	See 20dBc Data Sheet
Vert	2483.500	PK	63.2	27.3	2.8	32.2	61.1	73.9	12.8	
Vert	4883.600	PK	41.1	31.8	4.6	31.4	46.1	73.9	27.8	
Vert	7325.400	PK	41.8	36.1	5.6	32.0	51.5	73.9	22.4	
Vert	9767.200	PK	42.4	38.6	6.6	32.7	54.9	73.9	19.0	
Vert	24418.000	PK	46.4	38.5	-1.5	30.2	53.2	73.9	20.7	
Vert	2400.000	AV	58.7	27.2	2.7	32.3	56.3	-	-	See 20dBc Data Sheet
Vert	2483.500	AV	51.8	27.3	2.8	32.2	49.7	53.9	4.2	
Vert	4883.600	AV	27.0	31.8	4.6	31.4	32.0	53.9	21.9	
Vert	7325.400	AV	28.5	36.1	5.6	32.0	38.2	53.9	15.7	
Vert	9767.200	AV	28.6	38.6	6.6	32.7	41.1	53.9	12.8	
Vert	24418.000	AV	33.4	38.5	-1.5	30.2	40.2	53.9	13.7	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20dB).

\*The 10th harmonic was not seen so the result was its base noise level.

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB  
26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

### 20dBc Data Sheet

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	2441.800	PK	96.5	27.2	2.8	32.3	94.2	-	-	Carrier
Hori	2400.000	PK	60.4	27.2	2.7	32.3	58.0	74.2	16.2	
Vert	2441.800	PK	96.0	27.2	2.8	32.3	93.7	-	-	Carrier
Vert	2400.000	PK	59.6	27.2	2.7	32.3	57.2	73.7	16.5	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

## Radiated Spurious Emission

### Hch

Test place	Head Office EMC Lab. No.3 and No.4 Semi Anechoic Chamber	
Report No.	30CE0152-HO-03	
Date	12/03/2009	01/06/2010
Temperature/ Humidity	20 deg.C./ 40%	23 deg.C./ 48%
Engineer	Katsunori Okai	Tomotaka Sasagawa
	(1-26.5GHz)	(30-1000MHz)
Mode	Tx mode, 2480.2MHz	

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	68.610	QP	28.9	6.4	7.8	32.0	11.1	40.0	28.9	
Hori	116.064	QP	39.8	12.5	8.4	32.1	28.6	43.5	14.9	
Hori	147.401	QP	38.2	14.4	8.7	32.0	29.3	43.5	14.2	
Hori	479.997	QP	39.2	18.9	11.1	32.0	37.2	46.0	8.8	
Hori	528.014	QP	32.5	19.5	11.3	32.1	31.2	46.0	14.8	
Hori	623.986	QP	32.1	20.9	11.9	32.1	32.8	46.0	13.2	
Hori	2240.201	PK	53.1	27.1	2.7	32.4	50.5	73.9	23.4	
Hori	2400.000	PK	66.7	27.2	2.7	32.3	64.3	-	-	See 20dBc Data Sheet
Hori	2483.500	PK	51.1	27.3	2.8	32.2	49.0	73.9	24.9	
Hori	4960.400	PK	40.7	31.9	4.6	31.4	45.8	73.9	28.1	
Hori	7440.600	PK	41.9	36.3	5.6	32.0	51.8	73.9	22.1	
Hori	9920.800	PK	42.0	38.9	6.8	32.7	55.0	73.9	18.9	
Hori	24802.000	PK	46.3	39.1	-1.4	30.0	54.0	73.9	19.9	
Hori	2240.201	AV	49.9	27.1	2.7	32.4	47.3	53.9	6.6	
Hori	2400.000	AV	60.9	27.2	2.7	32.3	58.5	-	-	See 20dBc Data Sheet
Hori	2483.500	AV	34.6	27.3	2.8	32.2	32.5	53.9	21.4	
Hori	4960.400	AV	27.1	31.9	4.6	31.4	32.2	53.9	21.7	
Hori	7440.600	AV	28.5	36.3	5.6	32.0	38.4	53.9	15.5	
Hori	9920.800	AV	28.8	38.9	6.8	32.7	41.8	53.9	12.1	
Hori	24802.000	AV	34.9	39.1	-1.4	30.0	42.6	53.9	11.3	
Vert	72.000	QP	50.5	6.2	7.8	32.0	32.5	40.0	7.5	
Vert	108.873	QP	54.1	11.2	8.3	32.1	41.5	43.5	2.0	
Vert	141.968	QP	48.1	14.1	8.6	32.0	38.8	43.5	4.7	
Vert	479.985	QP	36.1	18.9	11.1	32.0	34.1	46.0	11.9	
Vert	527.996	QP	35.7	19.5	11.3	32.1	34.4	46.0	11.6	
Vert	624.003	QP	33.3	20.9	11.9	32.1	34.0	46.0	12.0	
Vert	2240.206	PK	52.7	27.1	2.7	32.4	50.1	73.9	23.8	
Vert	2400.000	PK	67.4	27.2	2.7	32.3	65.0	-	-	See 20dBc Data Sheet
Vert	2483.500	PK	51.1	27.3	2.8	32.2	49.0	73.9	24.9	
Vert	4960.400	PK	40.2	31.9	4.6	31.4	45.3	73.9	28.6	
Vert	7440.600	PK	42.1	36.3	5.6	32.0	52.0	73.9	21.9	
Vert	9920.800	PK	42.3	38.9	6.8	32.7	55.3	73.9	18.6	
Vert	24802.000	PK	46.4	39.1	-1.4	30.0	54.1	73.9	19.8	
Vert	2240.206	AV	49.6	27.1	2.7	32.4	47.0	53.9	6.9	
Vert	2400.000	AV	61.3	27.2	2.7	32.3	58.9	-	-	See 20dBc Data Sheet
Vert	2483.500	AV	34.8	27.3	2.8	32.2	32.7	53.9	21.2	
Vert	4960.400	AV	27.2	31.9	4.6	31.4	32.3	53.9	21.6	
Vert	7440.600	AV	28.6	36.3	5.6	32.0	38.5	53.9	15.4	
Vert	9920.800	AV	28.9	38.9	6.8	32.7	41.9	53.9	12.0	
Vert	24802.000	AV	34.8	39.1	-1.4	30.0	42.5	53.9	11.4	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20dB).

\*The 10th harmonic was not seen so the result was its base noise level.

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB  
26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

#### 20dBc Data Sheet

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	2480.200	PK	98.1	27.3	2.8	32.3	95.9	-	-	Carrier
Hori	2400.000	PK	62.9	27.2	2.7	32.3	60.5	75.9	15.4	
Vert	2480.200	PK	98.1	27.3	2.8	32.3	95.9	-	-	Carrier
Vert	2400.000	PK	63.2	27.2	2.7	32.3	60.8	75.9	15.1	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

## Radiated Spurious Emission

Test place Head Office EMC Lab. No.3 and No.4 Semi Anechoic Chamber  
Report No. 30CE0152-HO-03  
Date 01/06/2010  
Temperature/ Humidity 23 deg.C./ 48%  
Engineer Tomotaka Sasagawa  
Mode Rx mode, 2441.8MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	68.880	QP	29.3	6.3	7.8	32.0	11.4	40.0	28.6	
Hori	117.209	QP	38.7	12.7	8.4	32.1	27.7	43.5	15.8	
Hori	146.100	QP	38.6	14.3	8.7	32.0	29.6	43.5	13.9	
Hori	479.203	QP	38.9	18.9	11.1	32.0	36.9	46.0	9.1	
Hori	527.504	QP	33.1	19.5	11.3	32.1	31.8	46.0	14.2	
Hori	624.106	QP	32.9	20.9	11.9	32.1	33.6	46.0	12.4	
Hori	2199.996	PK	48.8	26.4	2.8	32.8	45.2	73.9	28.7	
Hori	2441.800	PK	43.1	26.8	2.9	32.7	40.1	73.9	33.8	
Hori	7325.400	PK	41.9	36.1	4.3	32.6	49.7	73.9	24.2	
Hori	2199.996	AV	43.8	26.4	2.8	32.8	40.2	53.9	13.7	
Hori	2441.800	AV	30.8	26.8	2.9	32.7	27.8	53.9	26.1	
Hori	7325.400	AV	30.3	36.1	4.3	32.6	38.1	53.9	15.8	
Vert	71.831	QP	48.7	6.2	7.8	32.0	30.7	40.0	9.3	
Vert	108.983	QP	52.4	11.2	8.3	32.1	39.8	43.5	3.7	
Vert	143.312	QP	47.5	14.2	8.6	32.0	38.3	43.5	5.2	
Vert	479.998	QP	35.6	18.9	11.1	32.0	33.6	46.0	12.4	
Vert	528.313	QP	33.5	19.5	11.3	32.1	32.2	46.0	13.8	
Vert	623.431	QP	32.8	20.8	11.9	32.1	33.4	46.0	12.6	
Vert	2201.653	PK	45.9	26.4	2.8	32.8	42.3	73.9	31.6	
Vert	2441.800	PK	42.9	26.8	2.9	32.7	39.9	73.9	34.0	
Vert	7325.400	PK	42.3	36.1	4.3	32.6	50.1	73.9	23.8	
Vert	2201.653	AV	40.9	26.4	2.8	32.8	37.3	53.9	16.6	
Vert	2441.800	AV	30.2	26.8	2.9	32.7	27.2	53.9	26.7	
Vert	7325.400	AV	30.4	36.1	4.3	32.6	38.2	53.9	15.7	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier)

\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20dB).

Distance factor: 10GHz-26.5GHz  $20\log(3.0m/1.0m)= 9.5dB$   
26.5GHz-40GHz  $20\log(3.0m/0.5m)=15.6dB$

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

#### **EMI test equipment**

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MAEC-03	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE	2009/02/02 * 12
MOS-13	Thermo-Hygrometer	Custom	CTH-180	-	RE	2009/02/06 * 12
MJM-06	Measure	PROMART	SEN1955	-	RE	-
COTS-MEMI	EMI measurement program	TSJ	TEPTO-DV	-	RE	-
MSA-04	Spectrum Analyzer	Agilent	E4448A	US44300523	RE	2009/08/25 * 12
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	258	RE	2009/04/30 * 12
MCC-56	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	174410(1m) / 284655(5m)	RE	2009/01/07 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	MY39500779	RE	2009/03/19 * 12
MHA-16	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	BBHA9170306	RE	2009/04/30 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	9120D-557	RE	2009/08/10 * 12
MCC-48	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX102	23771/2	RE	2009/08/26 * 12
MSG-09	Signal Generator	Wiltron	68247B	674005	RE	2009/02/26 * 12
MCC-78	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	278993/4	RE	2008/12/17 * 12 *1)
MHF-19	High Pass Filter 3.5-18.0GHz	TOKIMEC	TF323DCA	602	RE	2008/12/16 * 12 *1)
MAEC-04	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE	2009/02/03 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	-	RE	2009/02/06 * 12
MJM-07	Measure	PROMART	SEN1955	-	RE	-
COTS-MEMI	EMI measurement program	TSJ	TEPTO-DV	-	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	2009/01/10 * 12
MLA-08	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	N/A	RE	2009/01/10 * 12
MCC-50	Coaxial cable	UL Japan	-	-	RE	2009/03/18 * 12
MAT-31	Attenuator(6dB)	TME	UFA-01	-	RE	2009/11/11 * 12
MPA-14	Pre Amplifier	SONOMA INSTRUMENT	310	260833	RE	2009/03/18 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	9120D-557	RE	2009/08/10 * 12
MCC-57	Microwave Cable 1G-26.5GHz 6m	Suhner	SUCOFLEX104	246769(1m) / 292411(5m)	RE	2009/11/17 * 12
MPA-12	MicroWave System Amplifier	Agilent	83017A	MY39500780	RE	2009/03/19 * 12
MPM-12	Power Meter	Anritsu	ML2495A	0825002	AT	2009/08/26 * 12
MPSE-17	Power sensor	Anritsu	MA2411B	0738285	AT	2009/08/26 * 12
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	-	AT	2009/03/24 * 12

**\*1) This test equipment was not used for the tests on January 6, 2010.**

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 (Maximum Peak Output Power)