APPENDIX 2: Data of EMI test

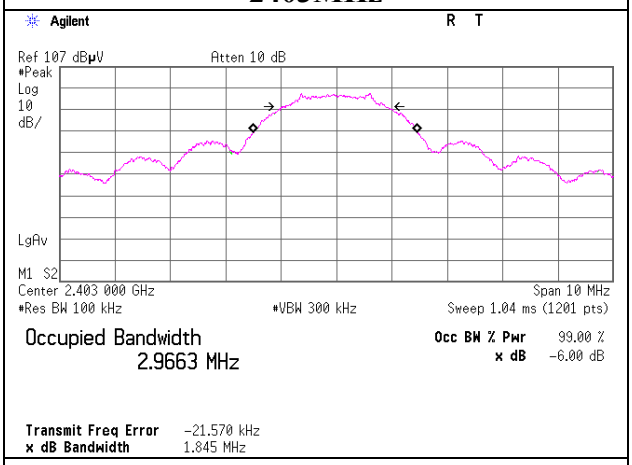
6dB Bandwidth

Test place	Head Office EMC Lab. No.6 Measurement Room
Report No.	29EE0021-HO
Date	09/02/2009
Temperature/ Humidity	25 deg.C./ 48%
Engineer	Tomotaka Sasagawa
Mode	Tx

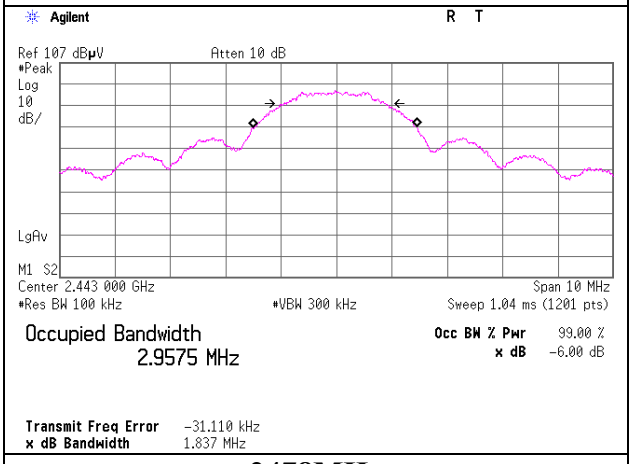
Frequency [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
2403	1.845	>500
2443	1.837	>500
2478	1.839	>500

6dB Bandwidth

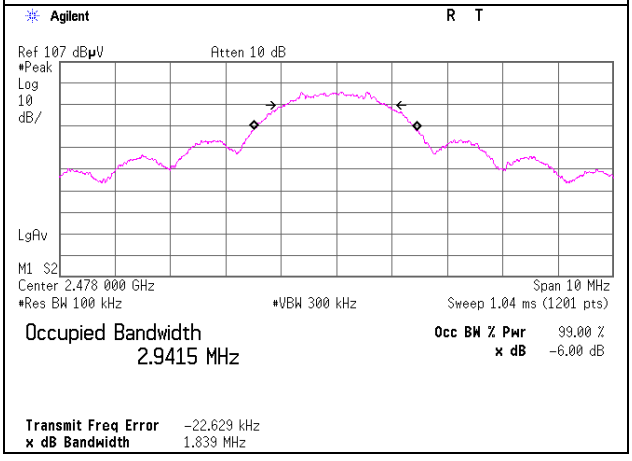
2403MHz



2443MHz



2478MHz



Maximum Peak Output Power

Test place	Head Office EMC Lab. No.6 Measurement Room
Report No.	29EE0021-HO
Date	09/02/2009
Temperature/ Humidity	25 deg.C./ 48%
Engineer	Tomotaka Sasagawa
Mode	Tx

Freq.	Reading	Cable Loss	Atten.	Result		Limit		Margin
[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
2403	-10.60	1.79	10.02	1.21	1.32	30.00	1000	28.79
2443	-11.00	1.81	10.02	0.83	1.21	30.00	1000	29.17
2478	-11.78	1.82	10.02	0.06	1.01	30.00	1000	29.94

Sample Calculation:
Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator

Radiated Spurious Emission

Test place	Head Office EMC Lab. No.4 / No.2 Semi Anechoic Chamber	
Report No.	29EE0021-HO-02	
Date	03/09/2009(No.4AC)	23/09/2009(No.2AC)
Temperature/ Humidity	23 deg.C./ 70%	25 deg.C./ 59%
Engineer	Hiroyuki Furutaka	Hironobu Ohnishi
	(1-26.5GHz)	(30-1000MHz)
Mode	Tx 2403MHz	

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	63.006	QP	22.2	7.9	7.1	28.6	8.6	40.0	31.4	
Hori	119.981	QP	25.5	12.9	7.6	28.4	17.6	43.5	25.9	
Hori	125.993	QP	24.9	13.4	7.7	28.4	17.6	43.5	25.9	
Hori	136.052	QP	25.8	14.2	7.7	28.4	19.3	43.5	24.2	
Hori	151.984	QP	27.3	15.1	7.8	28.3	21.9	43.5	21.6	
Hori	377.154	QP	28.8	16.5	9.2	28.2	26.3	46.0	19.7	
Hori	1247.967	PK	47.0	24.5	2.1	34.6	39.0	73.9	34.9	
Hori	2390.000	PK	39.9	26.7	2.8	32.7	36.7	73.9	37.2	
Hori	2400.000	PK	60.2	26.7	2.8	32.7	57.0	73.9	16.9	
Hori	4806.000	PK	42.0	30.8	5.3	31.9	46.2	73.9	27.7	
Hori	7209.000	PK	41.7	35.9	5.6	32.6	50.6	73.9	23.3	
Hori	9612.000	PK	48.6	37.9	6.7	33.4	59.8	73.9	14.1	
Hori	24030.000	PK	46.7	38.1	-1.1	32.5	51.2	73.9	22.7	
Hori	1247.967	AV	35.5	24.5	2.1	34.6	27.5	53.9	26.4	
Hori	2390.000	AV	30.4	26.7	2.8	32.7	27.2	53.9	26.7	
Hori	2400.000	AV	50.9	26.7	2.8	32.7	47.7	53.9	6.2	
Hori	4806.000	AV	31.6	30.8	5.3	31.9	35.8	53.9	18.1	
Hori	7209.000	AV	30.5	35.9	5.6	32.6	39.4	53.9	14.5	
Hori	9612.000	AV	38.9	37.9	6.7	33.4	50.1	53.9	3.8	
Hori	24030.000	AV	35.5	38.1	-1.1	32.5	40.0	53.9	13.9	
Vert	63.006	QP	35.2	7.9	7.1	28.6	21.6	40.0	18.4	
Vert	119.981	QP	31.1	12.9	7.6	28.4	23.2	43.5	20.3	
Vert	125.993	QP	29.6	13.4	7.7	28.4	22.3	43.5	21.2	
Vert	136.052	QP	30.4	14.2	7.7	28.4	23.9	43.5	19.6	
Vert	151.984	QP	26.7	15.1	7.8	28.3	21.3	43.5	22.2	
Vert	377.154	QP	24.0	16.5	9.2	28.2	21.5	46.0	24.5	
Vert	1259.780	PK	45.2	24.5	2.1	34.6	37.2	73.9	36.7	
Vert	2390.000	PK	40.1	26.7	2.8	32.7	36.9	73.9	37.1	
Vert	2400.000	PK	56.3	26.7	2.8	32.7	53.1	73.9	20.8	
Vert	4806.000	PK	43.4	30.8	5.3	31.9	47.6	73.9	26.3	
Vert	7209.000	PK	42.4	35.9	5.6	32.6	51.3	73.9	22.6	
Vert	9612.000	PK	47.3	37.9	6.7	33.4	58.5	73.9	15.4	
Vert	24030.000	PK	46.8	38.1	-1.1	32.5	51.3	73.9	22.6	
Vert	1259.780	AV	34.1	24.5	2.1	34.6	26.1	53.9	27.8	
Vert	2390.000	AV	30.2	26.7	2.8	32.7	27.0	53.9	26.9	
Vert	2400.000	AV	46.2	26.7	2.8	32.7	43.0	53.9	10.9	
Vert	4806.000	AV	33.5	30.8	5.3	31.9	37.7	53.9	16.2	
Vert	7209.000	AV	30.4	35.9	5.6	32.6	39.3	53.9	14.6	
Vert	9612.000	AV	38.2	37.9	6.7	33.4	49.4	53.9	4.5	
Vert	24030.000	AV	35.5	38.1	-1.1	32.5	40.0	53.9	13.9	

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

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

Radiated Spurious Emission

Test place	Head Office EMC Lab. No.4 / No.2 Semi Anechoic Chamber	
Report No.	29EE0021-HO-02	
Date	03/09/2009(No.4AC)	23/09/2009(No.2AC)
Temperature/ Humidity	23 deg.C./ 70%	25 deg.C./ 59%
Engineer	Hiroyuki Furutaka (1-26.5GHz)	Hironobu Ohnishi (30-1000MHz)
Mode	Tx 2443MHz	

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	63.006	QP	22.3	7.9	7.1	28.6	8.7	40.0	31.3	
Hori	119.991	QP	25.1	12.9	7.6	28.4	17.2	43.5	26.3	
Hori	126.003	QP	25.3	13.4	7.7	28.4	18.0	43.5	25.5	
Hori	135.997	QP	28.1	14.2	7.7	28.4	21.6	43.5	21.9	
Hori	152.285	QP	26.4	15.1	7.8	28.3	21.0	43.5	22.5	
Hori	378.004	QP	28.0	16.6	9.2	28.2	25.6	46.0	20.4	
Hori	1249.940	PK	48.8	24.5	2.1	34.6	40.8	73.9	33.1	
Hori	4886.000	PK	45.8	31.1	5.3	31.9	50.3	73.9	23.6	
Hori	7329.000	PK	42.2	36.1	5.6	32.6	51.3	73.9	22.6	
Hori	9772.000	PK	40.9	38.1	6.9	33.4	52.5	73.9	21.4	
Hori	24430.000	PK	46.6	38.3	-1.1	32.3	51.5	73.9	22.4	
Hori	1249.940	AV	38.3	24.5	2.1	34.6	30.3	53.9	23.6	
Hori	4886.000	AV	37.4	31.1	5.3	31.9	41.9	53.9	12.0	
Hori	7329.000	AV	30.2	36.1	5.6	32.6	39.3	53.9	14.6	
Hori	9772.000	AV	29.9	38.1	6.9	33.4	41.5	53.9	12.4	
Hori	24430.000	AV	34.8	38.3	-1.1	32.3	39.7	53.9	14.2	
Vert	63.006	QP	35.1	7.9	7.1	28.6	21.5	40.0	18.6	
Vert	119.991	QP	31.1	12.9	7.6	28.4	23.2	43.5	20.3	
Vert	126.003	QP	29.6	13.4	7.7	28.4	22.3	43.5	21.2	
Vert	135.997	QP	30.0	14.2	7.7	28.4	23.5	43.5	20.1	
Vert	152.285	QP	26.5	15.1	7.8	28.3	21.1	43.5	22.4	
Vert	378.004	QP	25.1	16.6	9.2	28.2	22.7	46.0	23.3	
Vert	1250.003	PK	46.6	24.5	2.1	34.6	38.6	73.9	35.3	
Vert	4886.000	PK	47.5	31.1	5.3	31.9	52.0	73.9	21.9	
Vert	7329.000	PK	41.4	36.1	5.6	32.6	50.5	73.9	23.4	
Vert	9772.000	PK	41.6	38.1	6.9	33.4	53.2	73.9	20.7	
Vert	24430.000	PK	45.6	38.3	-1.1	32.3	50.5	73.9	23.4	
Vert	1250.003	AV	36.8	24.5	2.1	34.6	28.8	53.9	25.1	
Vert	4886.000	AV	38.7	31.1	5.3	31.9	43.2	53.9	10.7	
Vert	7329.000	AV	30.0	36.1	5.6	32.6	39.1	53.9	14.8	
Vert	9772.000	AV	29.9	38.1	6.9	33.4	41.5	53.9	12.4	
Vert	24430.000	AV	35.8	38.3	-1.1	32.3	40.7	53.9	13.2	

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

Radiated Spurious Emission

Test place	Head Office EMC Lab. No.4 / No.2 Semi Anechoic Chamber	
Report No.	29EE0021-HO-02	
Date	03/09/2009(No.4AC)	23/09/2009(No.2AC)
Temperature/ Humidity	23 deg.C./ 70%	25 deg.C./ 59%
Engineer	Hiroyuki Furutaka	Hironobu Ohnishi
	(1-26.5GHz)	(30-1000MHz)
Mode	Tx 2478MHz	

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	62.583	QP	22.2	7.9	7.1	28.6	8.6	40.0	31.4	
Hori	119.995	QP	25.1	12.9	7.6	28.4	17.2	43.5	26.4	
Hori	126.003	QP	25.2	13.4	7.7	28.4	17.9	43.5	25.6	
Hori	135.992	QP	27.8	14.2	7.7	28.4	21.3	43.5	22.2	
Hori	151.985	QP	27.0	15.1	7.8	28.3	21.6	43.5	21.9	
Hori	377.994	QP	27.4	16.6	9.2	28.2	25.0	46.0	21.0	
Hori	1260.113	PK	47.9	24.5	2.1	34.6	39.9	73.9	34.0	
Hori	2483.500	PK	49.6	26.9	2.8	32.7	46.6	73.9	27.4	
Hori	4956.000	PK	48.1	31.3	5.3	31.9	52.8	73.9	21.1	
Hori	7434.000	PK	42.5	36.3	5.7	32.7	51.8	73.9	22.1	
Hori	9912.000	PK	42.9	38.3	7.0	33.5	54.7	73.9	19.3	
Hori	24780.000	PK	46.4	38.4	-1.0	32.2	51.6	73.9	22.3	
Hori	1260.113	AV	34.4	24.5	2.1	34.6	26.4	53.9	27.5	
Hori	2483.500	AV	39.8	26.9	2.8	32.7	36.8	53.9	17.1	
Hori	4956.000	AV	38.6	31.3	5.3	31.9	43.3	53.9	10.6	
Hori	7434.000	AV	29.3	36.3	5.7	32.7	38.6	53.9	15.3	
Hori	9912.000	AV	32.0	38.3	7.0	33.5	43.8	53.9	10.1	
Hori	24780.000	AV	35.5	38.4	-1.0	32.2	40.9	53.9	13.2	
Vert	62.583	QP	34.7	7.9	7.1	28.6	21.1	40.0	18.9	
Vert	119.995	QP	31.3	12.9	7.6	28.4	23.4	43.5	20.1	
Vert	126.003	QP	29.9	13.4	7.7	28.4	22.6	43.5	21.0	
Vert	135.992	QP	30.1	14.2	7.7	28.4	23.6	43.5	19.9	
Vert	151.985	QP	26.2	15.1	7.8	28.3	20.8	43.5	22.7	
Vert	377.994	QP	25.7	16.6	9.2	28.2	23.3	46.0	22.8	
Vert	1260.018	PK	46.3	24.5	2.1	34.6	38.3	73.9	35.6	
Vert	2483.500	PK	46.6	26.9	2.8	32.7	43.6	73.9	30.3	
Vert	4956.000	PK	0.0	31.3	3.9	31.9	3.3	73.9	70.6	
Vert	7434.000	PK	0.0	36.3	4.3	32.7	7.9	73.9	66.0	
Vert	9912.000	PK	0.0	38.3	5.0	33.5	9.8	73.9	64.1	
Vert	24780.000	PK	46.6	38.4	-1.0	32.2	51.8	73.9	22.1	
Vert	1260.018	AV	34.3	24.5	2.1	34.6	26.3	53.9	27.6	
Vert	2483.500	AV	37.4	26.9	2.8	32.7	34.4	53.9	19.5	
Vert	4956.000	AV	0.0	31.3	3.9	31.9	3.3	53.9	50.6	
Vert	7434.000	AV	0.0	36.3	4.3	32.7	7.9	53.9	46.0	
Vert	9912.000	AV	0.0	38.3	5.0	33.5	9.8	53.9	44.1	
Vert	24780.000	AV	35.7	38.4	-1.0	32.2	40.9	53.9	13.0	

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

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

Radiated Spurious Emission

Test place Head Office EMC Lab. No.3 Semi Anechoic Chamber
Report No. 29EE0021-HO-02
Date 09/18/2009
Temperature/ Humidity 24 deg.C./ 59%
Engineer Tomotaka Sasagawa

Mode Rx 2443MHz

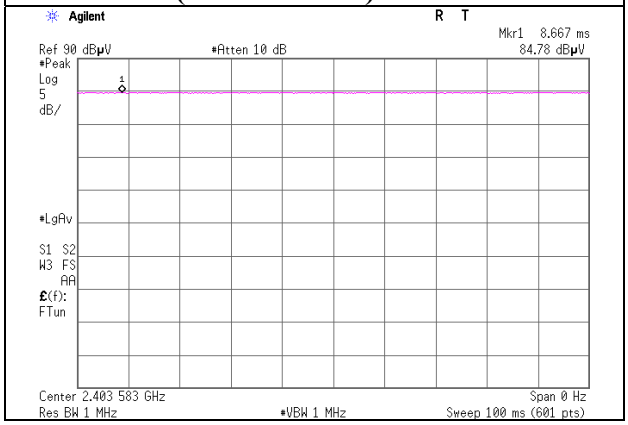
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	115.356	QP	35.1	12.2	8.3	32.1	23.5	43.5	20.0	
Hori	139.988	QP	37.1	13.7	8.6	32.1	27.3	43.5	16.2	
Hori	349.994	QP	31.4	17.1	10.2	32.0	26.7	46.0	19.3	
Hori	377.994	QP	31.1	17.5	10.4	32.0	27.0	46.0	19.0	
Hori	749.980	QP	26.9	23.0	12.6	31.7	30.8	46.0	15.2	
Hori	950.021	QP	28.0	24.5	13.5	30.8	35.2	46.0	10.8	
Hori	2443.000	PK	41.2	27.2	2.8	32.3	38.9	73.9	35.0	
Hori	2443.000	AV	32.3	27.2	2.8	32.7	29.6	53.9	24.3	
Vert	118.720	QP	32.3	12.6	8.4	32.1	21.2	43.5	22.3	
Vert	135.982	QP	34.4	13.6	8.5	32.1	24.4	43.5	19.1	
Vert	349.995	QP	24.5	17.1	10.2	32.0	19.8	46.0	26.2	
Vert	377.994	QP	28.9	17.5	10.4	32.0	24.8	46.0	21.2	
Vert	750.336	QP	23.2	23.0	12.6	31.7	27.1	46.0	18.9	
Vert	949.839	QP	22.9	24.5	13.5	30.8	30.1	46.0	15.9	
Vert	2443.000	PK	42.1	27.2	2.8	32.3	39.8	73.9	34.1	
Vert	2443.000	AV	32.9	27.2	2.8	32.7	30.2	53.9	23.7	

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

VBW (AV) Calculation

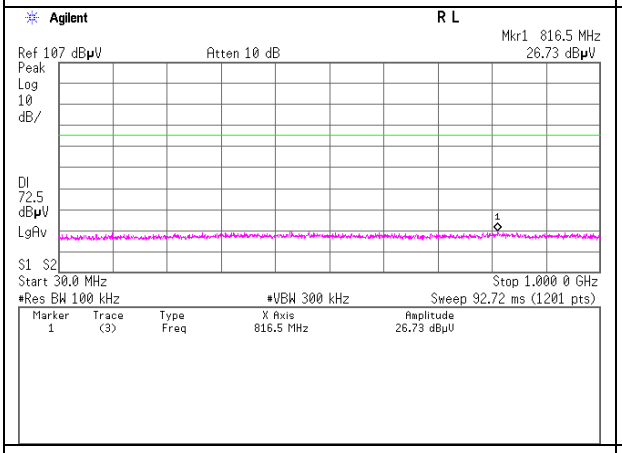
VBW: 1/x = 10Hz
x: (Tx on+Tx off) =100ms



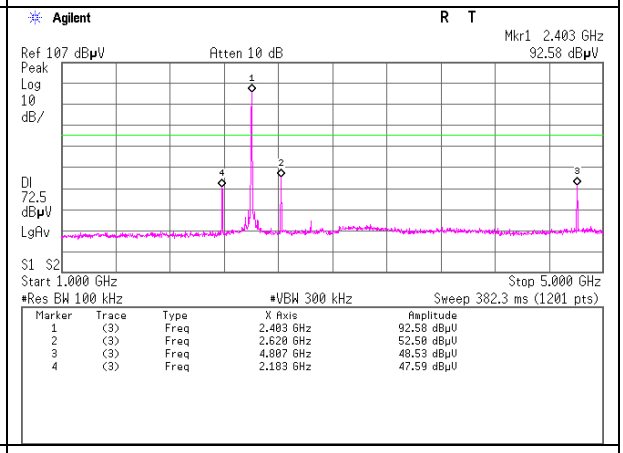
Conducted Spurious Emission

Tx 2403MHz

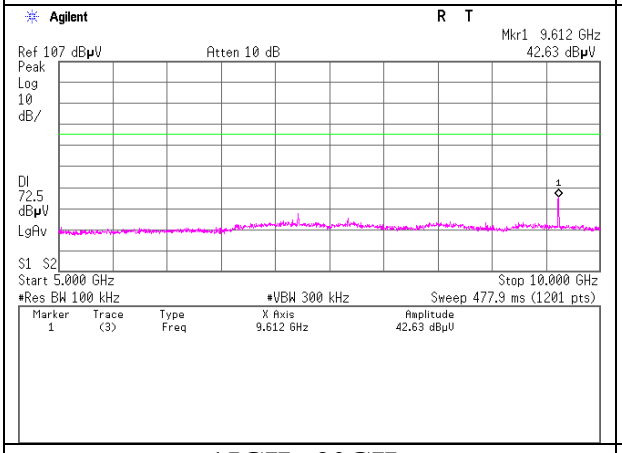
30MHz-1GHz



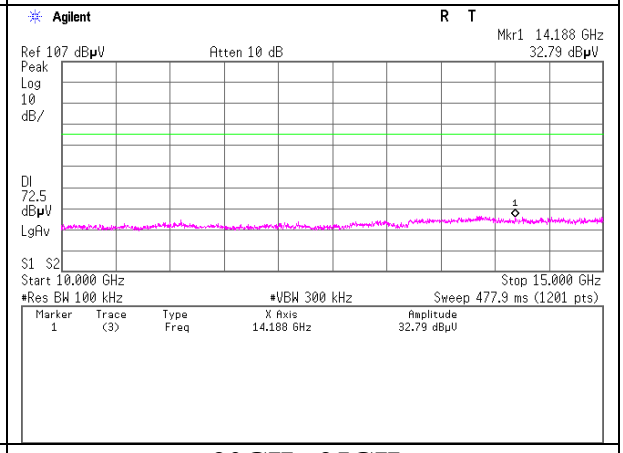
1GHz-5GHz



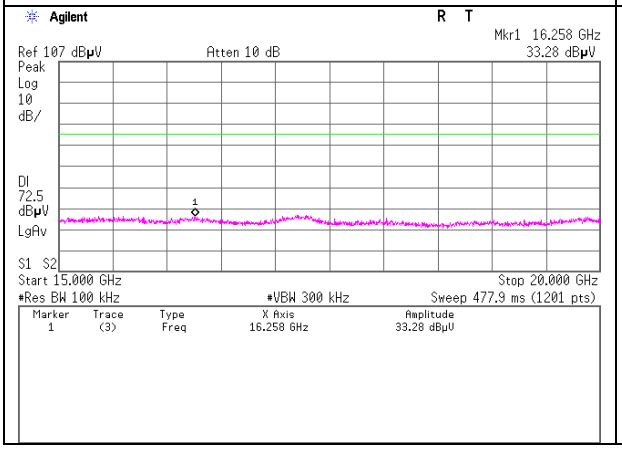
5GHz-10GHz



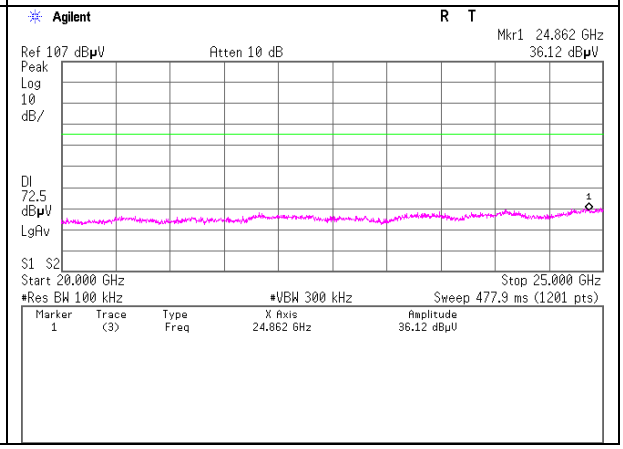
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz

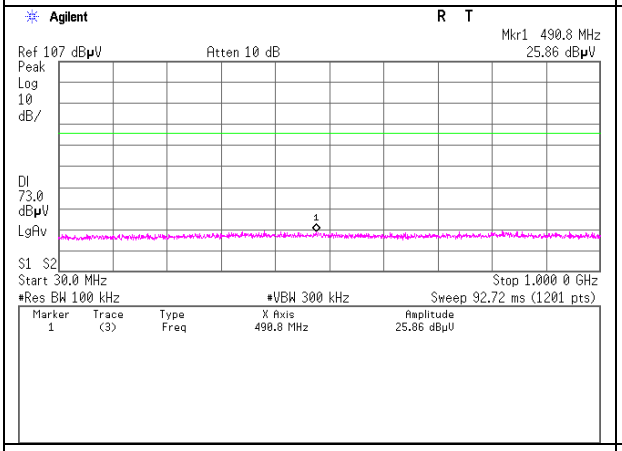


UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

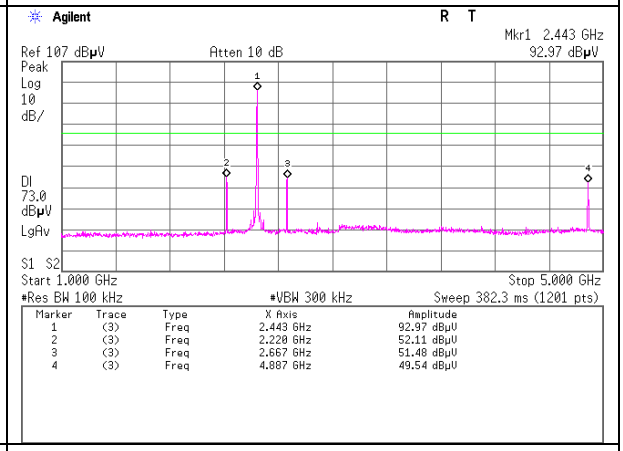
Conducted Spurious Emission

Tx 2443MHz

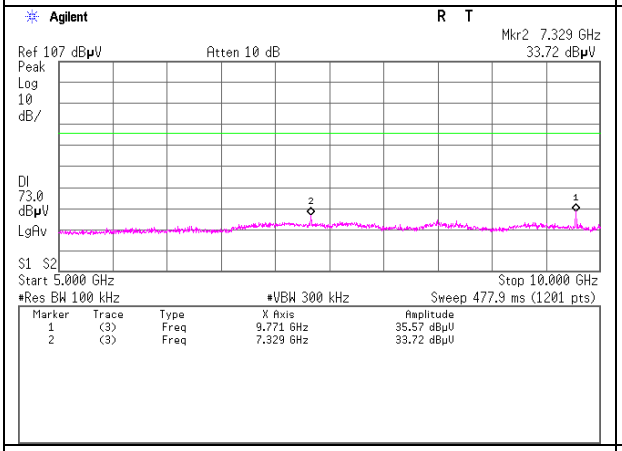
30MHz-1GHz



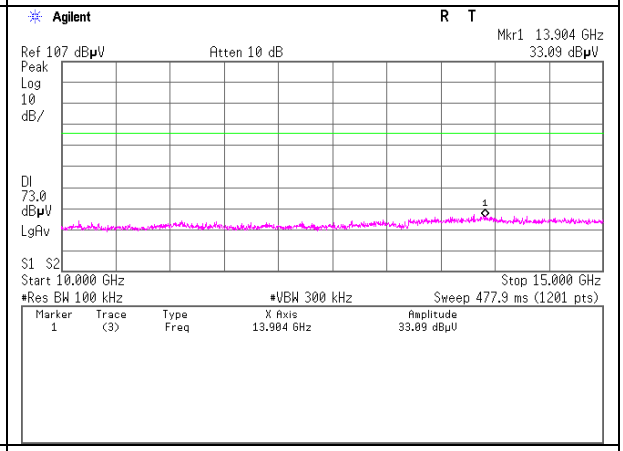
1GHz-5GHz



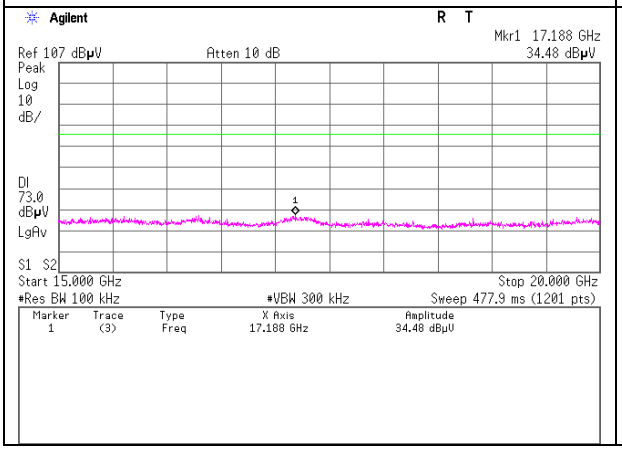
5GHz-10GHz



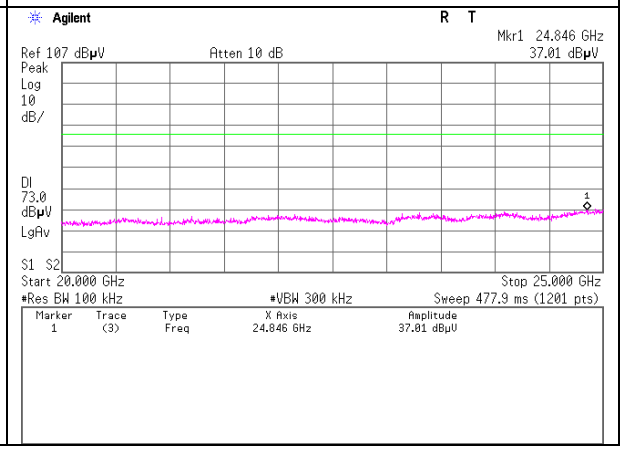
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz

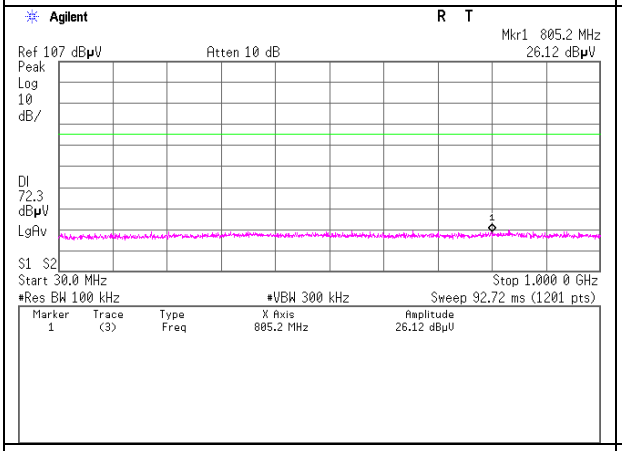


UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

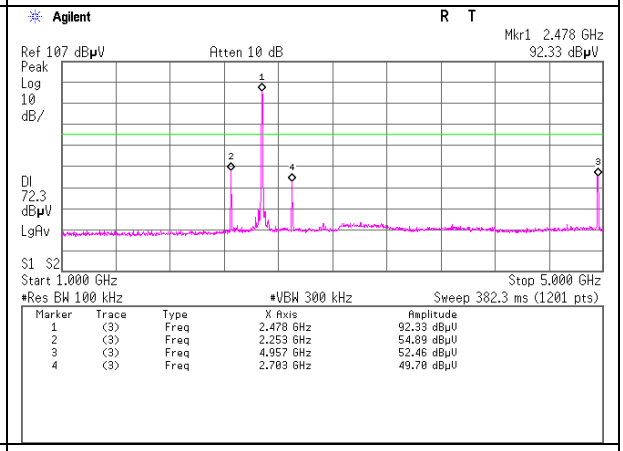
Conducted Spurious Emission

Tx 2478MHz

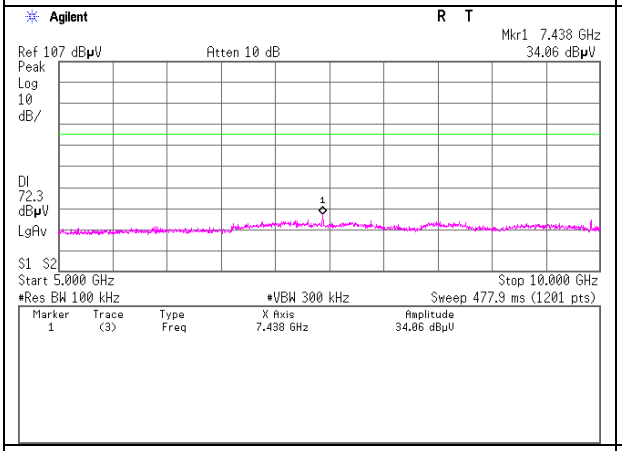
30MHz-1GHz



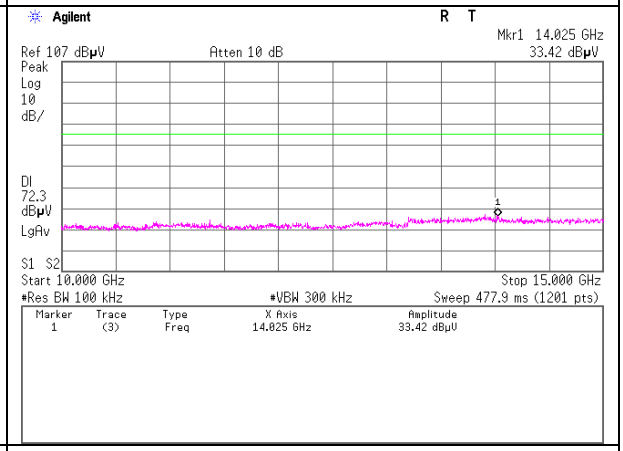
1GHz-5GHz



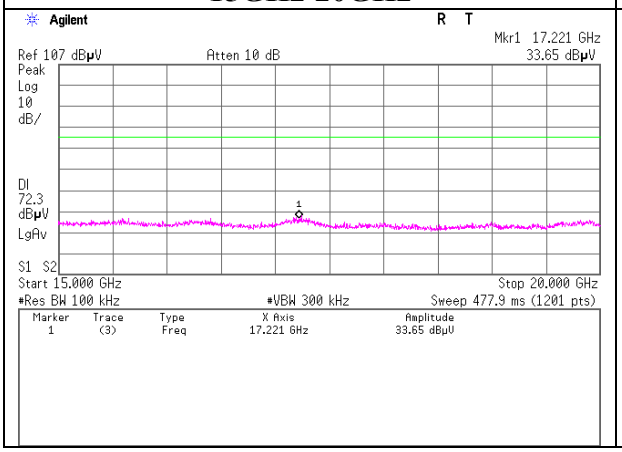
5GHz-10GHz



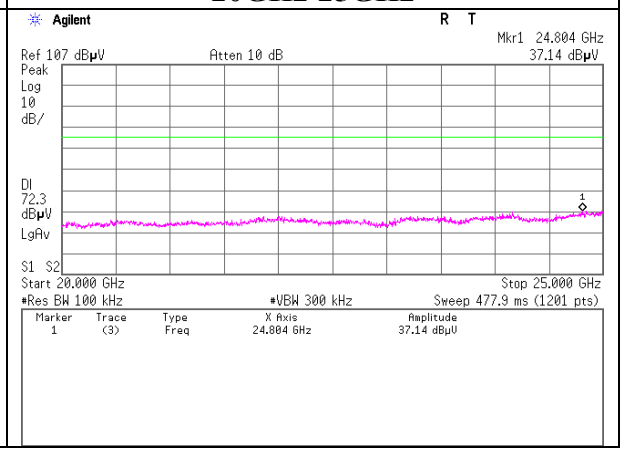
10GHz-15GHz



15GHz-20GHz



20GHz-25GHz

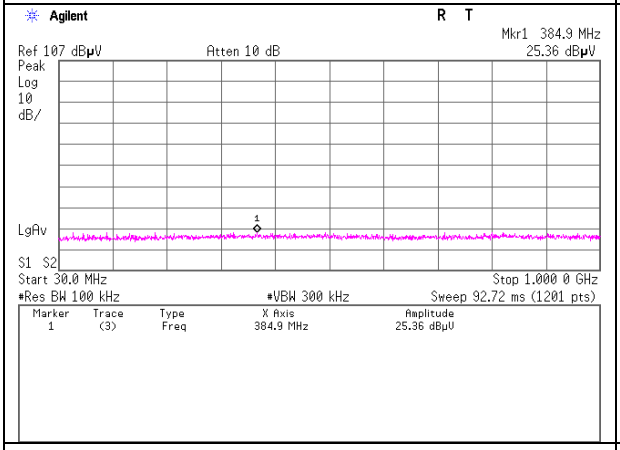


UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

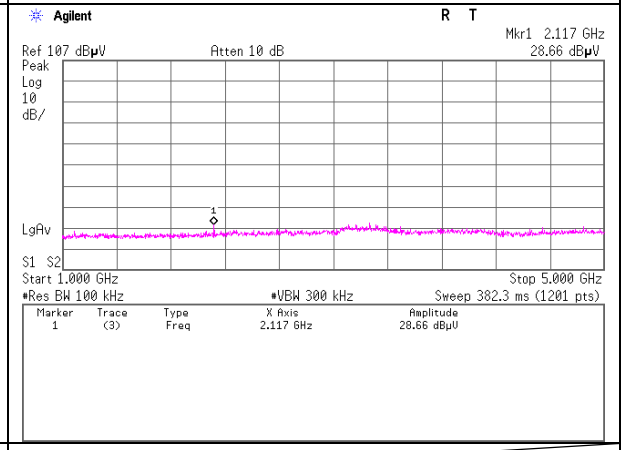
Conducted Spurious Emission

Rx 2443MHz

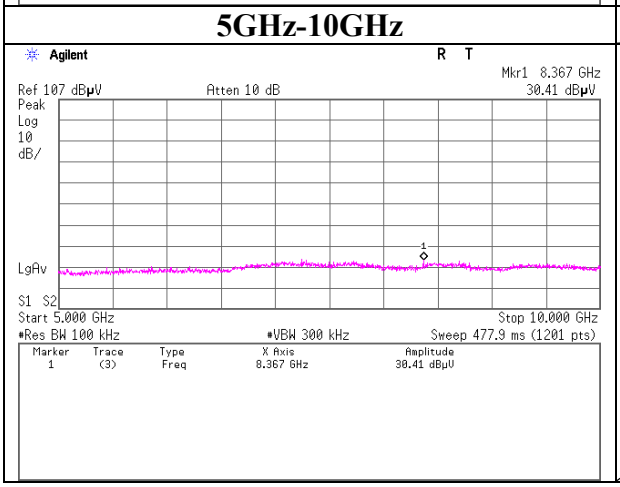
30MHz-1GHz



1GHz-5GHz



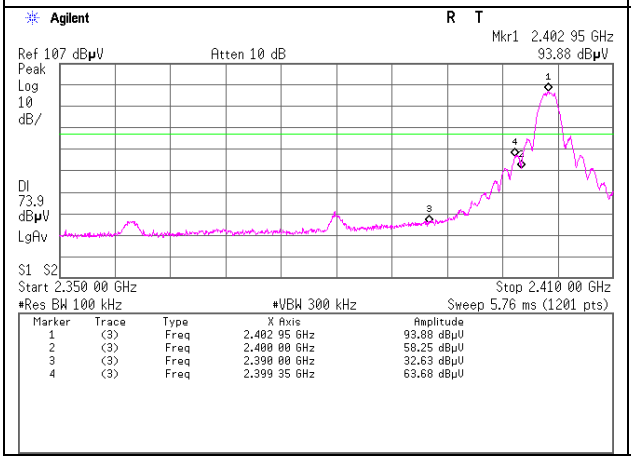
5GHz-10GHz



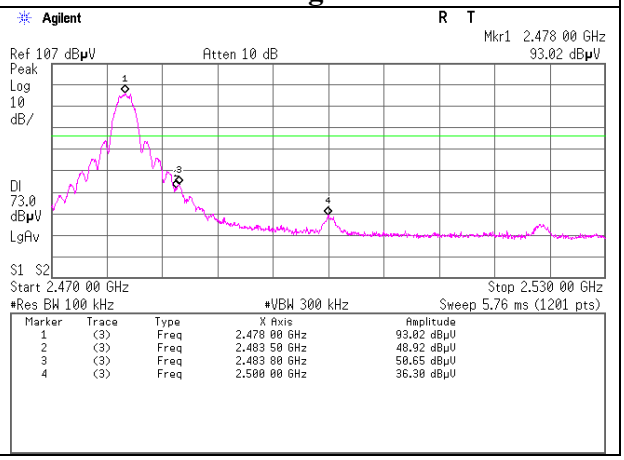
UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

Conducted Emission Band Edge compliance

Low



High



Power Density

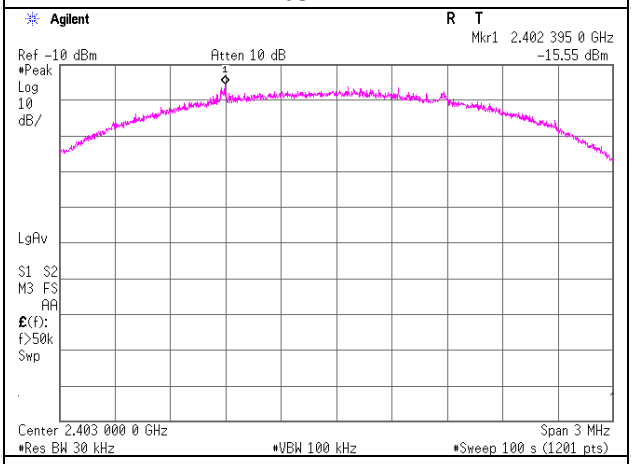
Test place	Head Office EMC Lab. No.6 Measurement Room
Report No.	29EE0021-HO
Date	09/02/2009
Temperature/ Humidity	25 deg.C./ 48%
Engineer	Tomotaka Sasagawa
Mode	Tx

Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2403.00	-15.55	1.79	10.02	-3.74	8.00	11.74
2443.00	-15.53	1.81	10.02	-3.70	8.00	11.70
2478.00	-16.88	1.82	10.02	-5.04	8.00	13.04

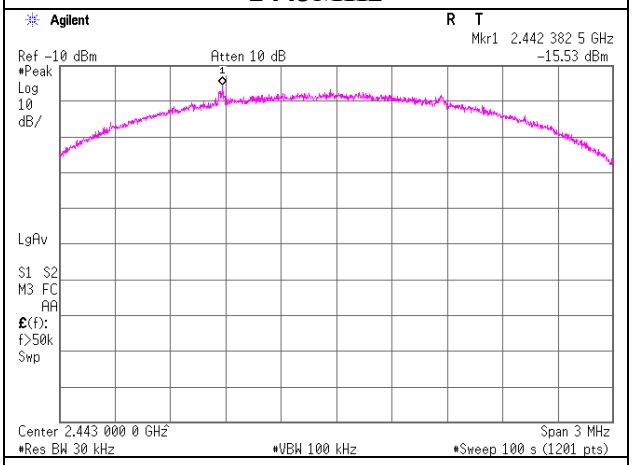
Sample Calculation:
Result = Reading + Cable Loss (including the cable(s) customer supplied) + Attenuator

Power Density

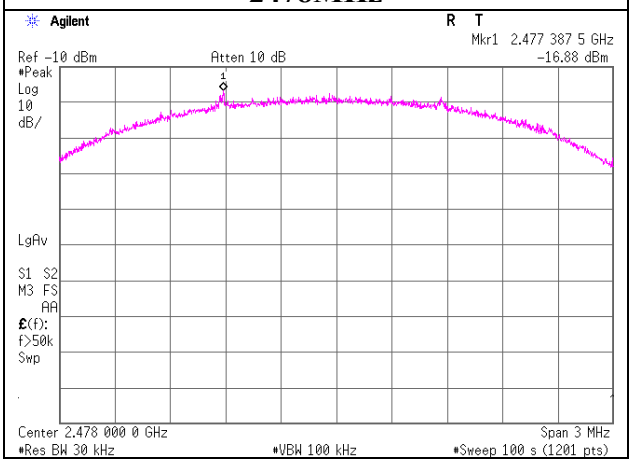
2403MHz



2443MHz



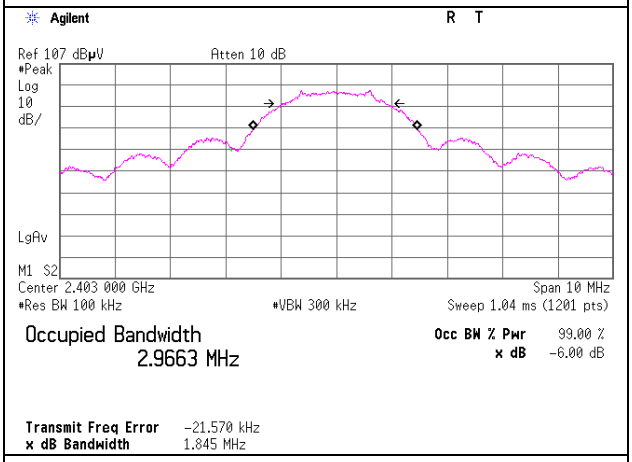
2478MHz



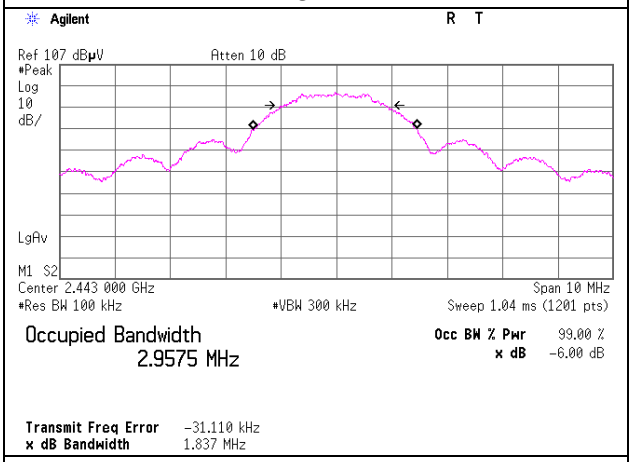
UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
Telephone : +81 596 24 8116
Facsimile : +81 596 24 8124

99%Occupied Bandwidth

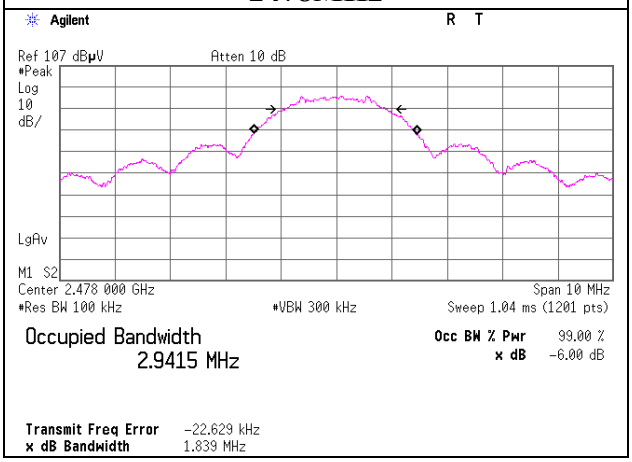
2403MHz



2443MHz



2478MHz



APPENDIX 3: Test instruments

EMI test equipment(1/2)

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MAEC-04	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-04	Spectrum Analyzer	Agilent	E4448A	US44300523	RE	2009/08/25 * 12
MSA-05	Spectrum Analyzer	Advantest	R3273	160400285	RE	2009/06/29 * 12
MTR-07	Test Receiver	Rohde & Schwarz	ESCI	100635	RE	2008/10/03 * 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	2009/03/03 * 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	2008/11/05 * 12
MPA-12	MicroWave System Amplifier	Agilent	83017A	MY39500780	RE	2009/03/19 * 12
MHA-17	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	BBHA9170307	RE	2009/06/18 * 12
MHF-20	High Pass Filter 3.5-18.0GHz	TOKIMEC	TF323DCC	607	RE	2008/12/12 * 12
MCC-79	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	278923/4	RE	2008/12/17 * 12
MAEC-03	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	-
MSA-09	Spectrum Analyzer	Advantest	R3273	95090115	RE	2008/12/24 * 12
MTR-08	Test Receiver	Rohde & Schwarz	ESCI	100767	RE	2009/06/30 * 12
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	1915	RE	2009/01/19 * 12
MLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	174	RE	2009/01/10 * 12
MCC-51	Coaxial cable	UL Japan	-	-	RE	2009/07/02 * 12
MAT-09	Attenuator(6dB)	Weinschel Corp	2	BK7973	RE	2008/11/14 * 12
MPA-13	Pre Amplifier	SONOMA INSTRUMENT	310	260834	RE	2009/03/18 * 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

EMI test equipment(2/2)

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MSA-03	Spectrum Analyzer	Agilent	E4448A	MY44020357	AT	2008/11/07 * 12
MAT-22	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	-	AT	2009/03/24 * 12
MCC-116	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	290221/4	AT	2009/08/07 * 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
MOS-14	Thermo-Hygrometer	Custom	CTH-180	-	AT	2009/02/04 * 12
MAEC-02	Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-06902	RE	2009/08/17 * 12
MOS-22	Thermo-Hygrometer	Custom	CTH-201	0003	RE	2009/02/05 * 12
MJM-05	Measure	PROMART	SEN1955	-	RE	-
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	100300	RE	2009/04/14 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	VHA91032008	RE	2008/10/18 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	201	RE	2008/10/18 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	-	RE	2009/02/16 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	BK7970	RE	2008/11/14 * 12
MPA-09	Pre Amplifier	Agilent	8447D	2944A10845	RE	2009/09/02 * 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