APPENDIX 2: Data of EMI test

Conducted Emission
Tx, Ch:Low

DATA OF CONDUCTED EMISSION TEST

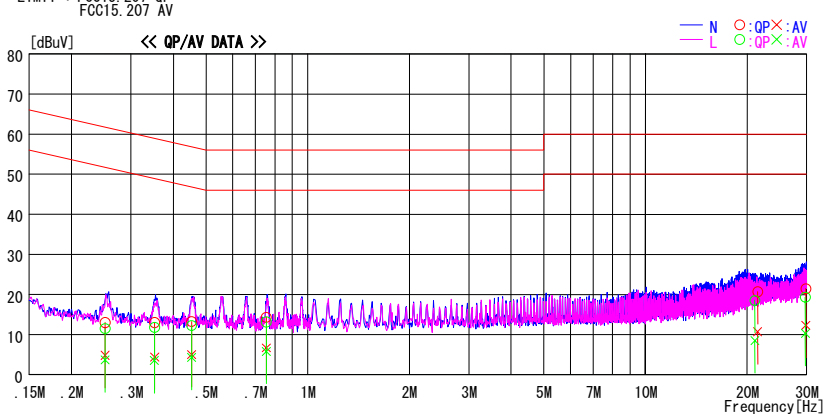
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/05/18

Company : TANITA Corporation
Kind of EUT : RF module
Model No. : BC5849501
Serial No. : MP001

Report No. : 29GE0111-HO-01
Power : DC 6.0V(AC120V 60Hz)
Temp./Humi. : 21deg.C. / 66%
Engineer : Hironobu Ohnishi

Mode / Remarks : Tx Lch(2405MHz)

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase
	QP	AV	Factor	QP	AV	QP	AV	QP	AV	
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]	
0.25140	12.6	4.4	0.4	13.0	4.8	61.7	51.7	48.7	46.9	N
0.35254	12.6	4.0	0.4	13.0	4.4	58.9	48.9	45.9	44.5	N
0.45317	12.9	4.6	0.4	13.3	5.0	56.8	46.8	43.5	41.8	N
0.75433	13.9	6.3	0.4	14.3	6.7	56.0	46.0	41.7	39.3	N
21.48300	16.2	6.2	4.5	20.7	10.7	60.0	50.0	39.3	39.3	N
29.83230	15.0	5.9	6.4	21.4	12.3	60.0	50.0	38.6	37.7	N
0.25140	11.1	3.3	0.4	11.5	3.7	61.7	51.7	50.2	48.0	L
0.35214	11.4	3.1	0.4	11.8	3.5	58.9	48.9	47.1	45.4	L
0.45317	11.9	3.9	0.4	12.3	4.3	56.8	46.8	44.5	42.5	L
0.75433	12.8	5.4	0.4	13.2	5.8	56.0	46.0	42.8	40.2	L
21.08200	14.1	4.1	4.4	18.5	8.5	60.0	50.0	41.5	41.5	L
29.73800	12.9	3.9	6.4	19.3	10.3	60.0	50.0	40.7	39.7	L

CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

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

Conducted Emission
Tx, Ch: Low

DATA OF CONDUCTED EMISSION TEST

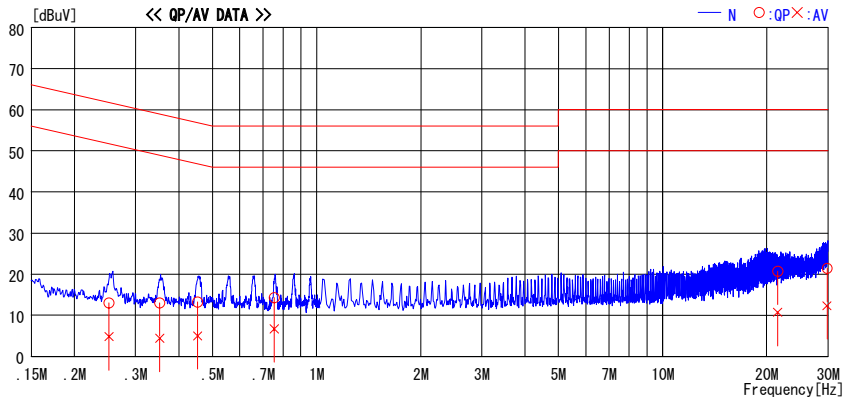
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/05/18

Company : TANITA Corporation
Kind of EUT : RF module
Model No. : BC5849501
Serial No. : MP001

Report No. : 29GE0111-HO-01
Power : DC 6.0V(AC120V 60Hz)
Temp./Humi. : 21deg.C. / 66%
Engineer : Hironobu Ohnishi

Mode / Remarks : Tx Lch(2405MHz)

LIMIT : FCC15.207 QP
FCC15.207 AV



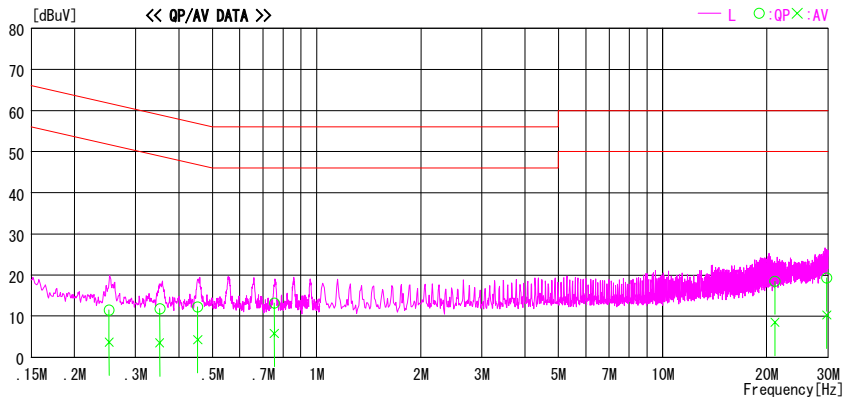


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
Tx, Ch: Mid

DATA OF CONDUCTED EMISSION TEST

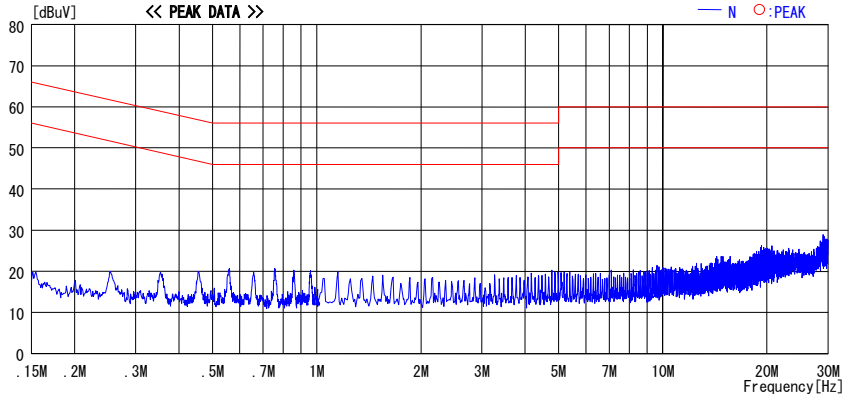
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/05/18

Company : TANITA Corporation
Kind of EUT : RF module
Model No. : BC5849501
Serial No. : MP001

Report No. : 29GE0111-HO-01
Power : DC 6.0V(AC120V 60Hz)
Temp./Humi. : 21deg.C. / 66%
Engineer : Hironobu Ohnishi

Mode / Remarks : Tx Mch(2440MHz)

LIMIT : FCC15.207 QP
FCC15.207 AV



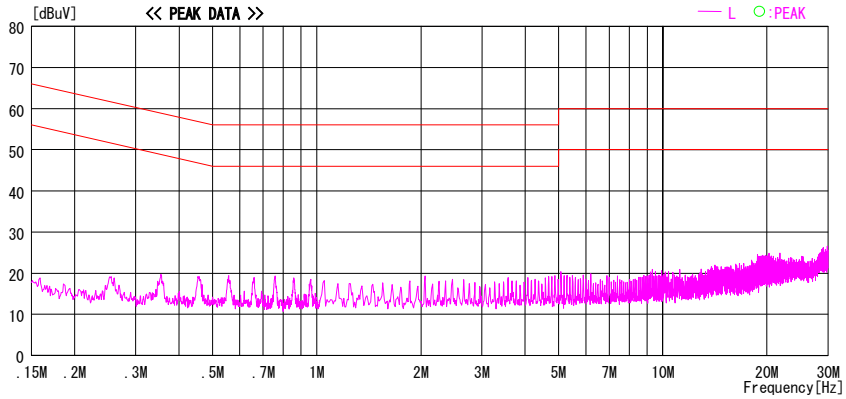


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

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Conducted Emission
Tx, Ch: High

DATA OF CONDUCTED EMISSION TEST

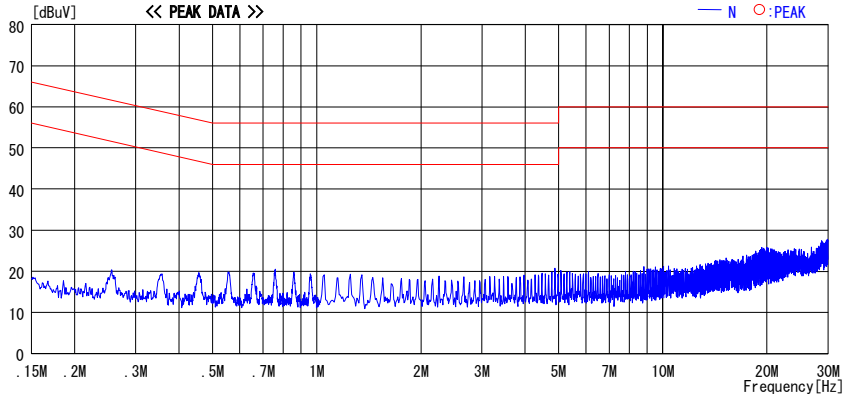
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/05/18

Company : TANITA Corporation
Kind of EUT : RF module
Model No. : BC5849501
Serial No. : MP001

Report No. : 29GE0111-HO-01
Power : DC 6.0V(AC120V 60Hz)
Temp./Humi. : 21deg.C. / 66%
Engineer : Hironobu Ohnishi

Mode / Remarks : Tx Hch(2479MHz)

LIMIT : FCC15.207 QP
FCC15.207 AV



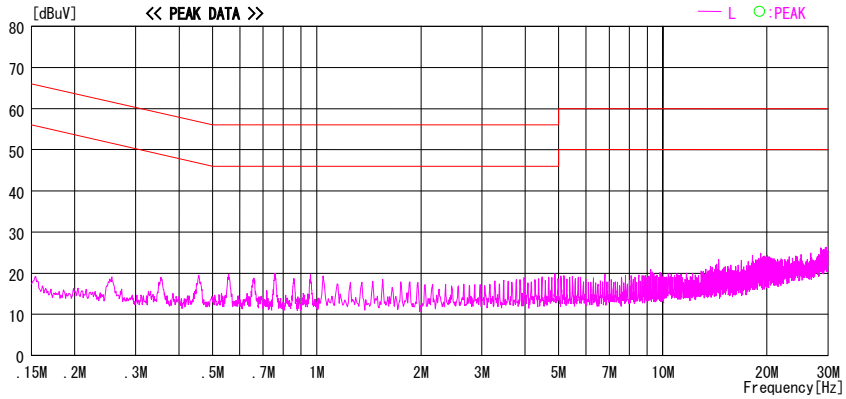


CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

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Conducted Emission
Rx, Ch: Mid

DATA OF CONDUCTED EMISSION TEST

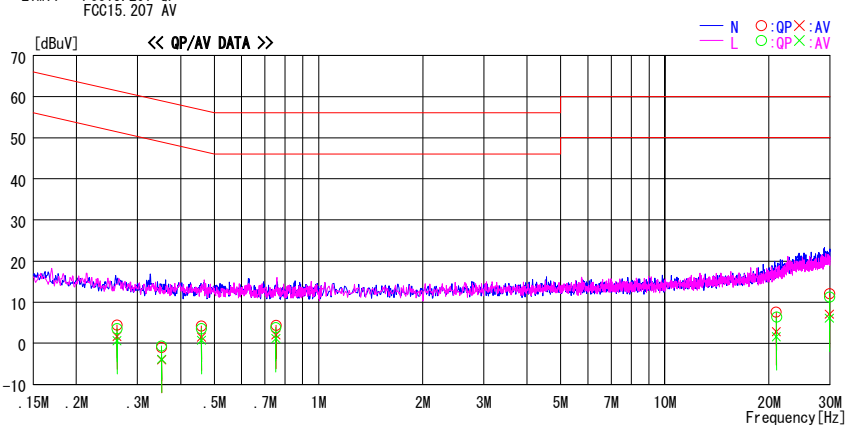
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/05/18

Company : TANITA Corporation
Kind of EUT : RF module
Model No. : BC5849501
Serial No. : MP001

Report No. : 29GE0111-HO-01
Power : DC 6.0V(AC120V 60Hz)
Temp./Humi. : 21deg.C. / 66%
Engineer : Hironobu Ohnishi

Mode / Remarks : Rx Mch(2440MHz)

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency	Reading Level		Corr.	Results		Limit		Margin		Phase
	QP	AV	Factor	QP	AV	QP	AV	QP	AV	
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]	
0.26180	4.1	1.3	0.4	4.5	1.7	61.4	51.4	56.9	49.7	N
0.35254	-1.4	-4.4	0.4	-1.0	-4.0	58.9	48.9	59.9	52.9	N
0.45917	3.8	1.1	0.4	4.2	1.5	56.7	46.7	52.5	45.2	N
0.75343	4.0	1.6	0.4	4.4	2.0	56.0	46.0	51.6	44.0	N
20.99150	3.2	-1.6	4.4	7.6	2.8	60.0	50.0	52.4	47.2	N
29.92520	5.7	0.7	6.4	12.1	7.1	60.0	50.0	47.9	42.9	N
0.26190	3.2	0.2	0.4	3.6	0.6	61.4	51.4	57.8	50.8	L
0.35254	-1.0	-4.3	0.4	-0.6	-3.9	58.9	48.9	59.5	52.8	L
0.45907	3.2	0.3	0.4	3.6	0.7	56.7	46.7	53.1	46.0	L
0.75303	3.4	0.7	0.4	3.8	1.1	56.0	46.0	52.2	44.9	L
21.00160	2.0	-2.8	4.4	6.4	1.6	60.0	50.0	53.6	48.4	L
29.92520	4.9	-0.3	6.4	11.3	6.1	60.0	50.0	48.7	43.9	L

CHART:WITH FACTOR,Peak hold data. CALCURATION:RESULT[dBuV]=READING[dBuV]+C.F[dB](LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

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

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20dB Bandwidth

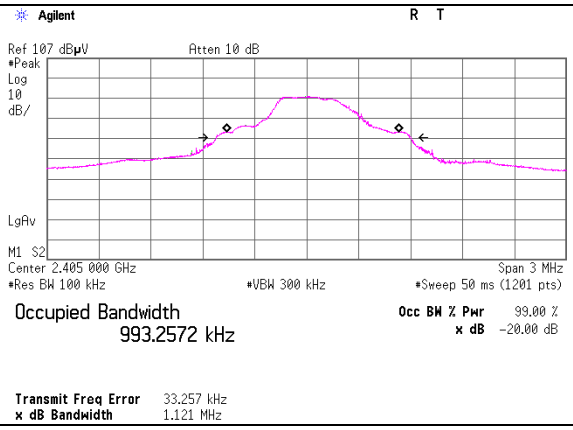
UL Japan, Inc.
Head Office EMC Lab. No.4 Anechoic Chamber
Test Report No. : 29GE0111-HO-01

Company	:	TANITA Corporation	Regulation	:	-
Equipment	:	RF module	Test distance	:	-
Model No.	:	BC5849501	Date	:	05/19/2009
Serial No.	:	MP001	Temperature	:	23deg.C
Power	:	DC 6.0V (AC120V 60Hz)	Humidity	:	51%
Mode	:	Tx L/M/H ch	Engineer	:	Hironobu Ohnishi

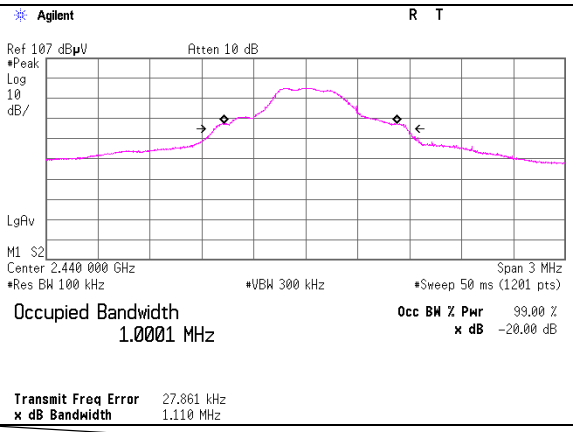
Ch	Freq. [MHz]	20dB Bandwidth [MHz]	Limit [MHz]
Low	2405.0	1.121	-
Mid	2440.0	1.110	-
High	2479.0	1.105	-

20dB Bandwidth

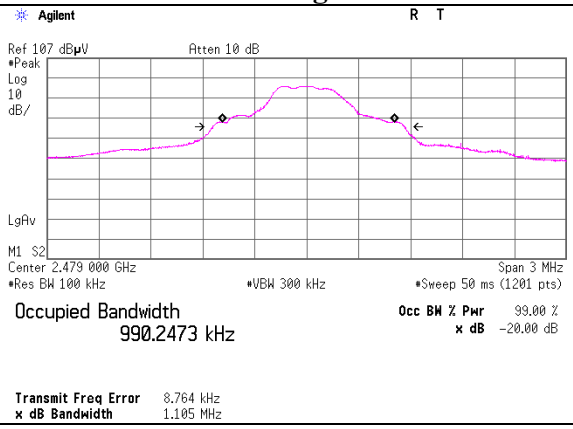
Ch:Low



Ch:Mid



Ch:High



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Radiated Spurious Emission (below 1GHz)
Tx, Ch: Low

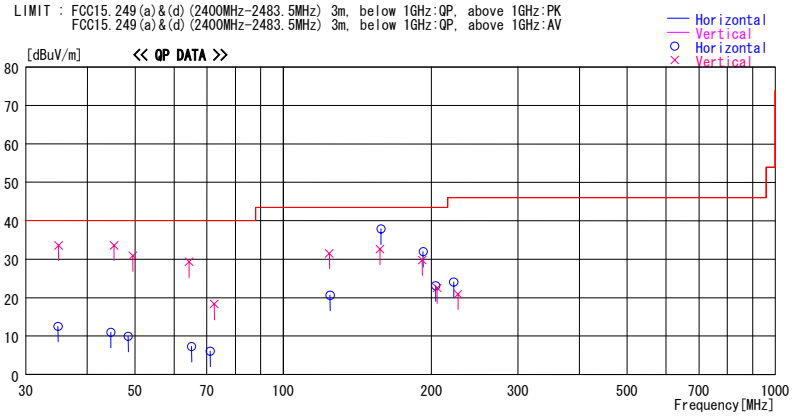
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/05/18

Company	: TANITA Corporation	Report No.	: 29GE0111-HO-01
Kind of EUT	: RF module	Power	: DC 6.0V(AC120V 60Hz)
Model No.	: BC5849501	Temp./Humi.	: 21deg.C. / 66%
Serial No.	: MP001	Engineer	: Hisayoshi Sato

Mode / Remarks : Tx Low ch(2405MHz) Worst axis(Hor:Z-axis Ver:X-axis)

LIMIT : FCC15.249(a)&(d) (2400MHz-2483.5MHz) 3m, below 1GHz:QP, above 1GHz:PK
FCC15.249(a)&(d) (2400MHz-2483.5MHz) 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
34.870	21.0	QP	16.5	-25.0	12.5	359	394	Hori.	40.0	27.5	
34.962	42.0	QP	16.5	-24.9	33.6	353	100	Vert.	40.0	6.4	
44.609	23.2	QP	12.5	-24.7	11.0	202	394	Hori.	40.0	29.0	
45.313	46.1	QP	12.2	-24.7	33.6	353	100	Vert.	40.0	6.4	
48.397	23.3	QP	11.1	-24.5	9.9	0	100	Hori.	40.0	30.1	
49.479	44.6	QP	10.8	-24.5	30.9	124	100	Vert.	40.0	9.1	
64.412	46.4	QP	7.2	-24.3	29.3	132	100	Vert.	40.0	10.7	
65.170	24.5	QP	7.1	-24.3	7.3	355	100	Hori.	40.0	32.7	
71.122	23.9	QP	6.4	-24.2	6.1	147	215	Hori.	40.0	33.9	
72.457	36.2	QP	6.3	-24.2	18.3	190	100	Vert.	40.0	21.7	
124.156	42.2	QP	13.0	-23.7	31.5	1	100	Vert.	43.5	12.0	
124.518	31.1	QP	13.1	-23.6	20.6	147	204	Hori.	43.5	22.9	
157.284	40.9	QP	14.9	-23.2	32.6	238	100	Vert.	43.5	10.9	
158.048	46.1	QP	15.0	-23.2	37.9	342	211	Hori.	43.5	5.6	
191.712	36.5	QP	16.3	-23.0	29.8	238	100	Vert.	43.5	13.7	
192.456	38.5	QP	16.3	-22.8	32.0	354	131	Hori.	43.5	11.5	
204.133	29.3	QP	16.6	-22.8	23.1	352	169	Hori.	43.5	20.4	
205.708	28.6	QP	16.6	-22.7	22.5	193	100	Vert.	43.5	21.0	
222.121	29.7	QP	17.0	-22.6	24.1	352	169	Hori.	46.0	21.9	
226.723	26.3	QP	17.1	-22.5	20.9	280	100	Vert.	46.0	25.1	

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

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Radiated Spurious Emission (below 1GHz)
Tx, Ch: Mid

DATA OF RADIATED EMISSION TEST

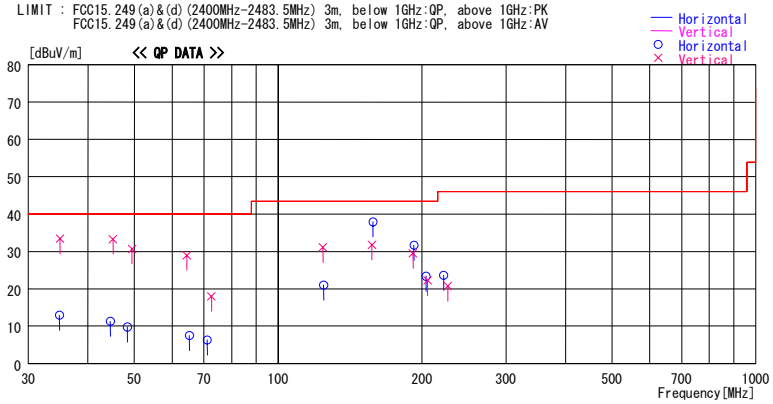
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/05/18

Company : TANITA Corporation
Kind of EUT : RF module
Model No. : BC5849501
Serial No. : MP001

Report No. : 29GE0111-HO-01
Power : DC 6.0V(AC120V 60Hz)
Temp./Humi. : 21deg.C. / 66%
Engineer : Hisayoshi Sato

Mode / Remarks : Tx Mid ch(2440MHz) Worst axis(Hor:Z-axis Ver:X-axis)

LIMIT : FCC15.249(a)&(d) (2400MHz-2483.5MHz) 3m, below 1GHz:QP, above 1GHz:PK
FCC15.249(a)&(d) (2400MHz-2483.5MHz) 3m, below 1GHz:QP, above 1GHz:AV



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]	
34.858	21.4	QP	16.5	-25.0	12.9	359	394	Hori.	40.0	27.1	
34.945	41.8	QP	16.5	-24.9	33.4	353	100	Vert.	40.0	6.6	
44.578	23.5	QP	12.5	-24.7	11.3	202	394	Hori.	40.0	28.7	
45.132	45.7	QP	12.3	-24.7	33.3	353	100	Vert.	40.0	6.7	
48.389	23.2	QP	11.1	-24.5	9.8	0	100	Hori.	40.0	30.2	
49.457	44.4	QP	10.8	-24.5	30.7	124	100	Vert.	40.0	9.3	
64.389	46.1	QP	7.2	-24.3	29.0	132	100	Vert.	40.0	11.0	
65.199	24.7	QP	7.1	-24.3	7.5	355	100	Hori.	40.0	32.5	
71.141	24.1	QP	6.4	-24.2	6.3	147	215	Hori.	40.0	33.7	
72.533	35.9	QP	6.3	-24.2	18.0	190	100	Vert.	40.0	22.0	
124.146	41.8	QP	13.0	-23.7	31.1	1	100	Vert.	43.5	12.4	
124.556	31.5	QP	13.1	-23.6	21.0	147	204	Hori.	43.5	22.5	
157.234	40.1	QP	14.9	-23.2	31.8	238	100	Vert.	43.5	11.7	
158.095	46.1	QP	15.0	-23.2	37.9	342	211	Hori.	43.5	5.6	
191.574	36.2	QP	16.3	-23.0	29.5	238	100	Vert.	43.5	14.0	
192.456	38.2	QP	16.3	-22.8	31.7	354	131	Hori.	43.5	11.8	
204.133	29.6	QP	16.6	-22.8	23.4	352	169	Hori.	43.5	20.1	
205.641	28.3	QP	16.6	-22.7	22.2	193	100	Vert.	43.5	21.3	
222.133	29.2	QP	17.0	-22.6	23.6	352	169	Hori.	46.0	22.4	
226.640	26.1	QP	17.1	-22.5	20.7	280	100	Vert.	46.0	25.3	

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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Radiated Spurious Emission (below 1GHz)
Tx, Ch: High

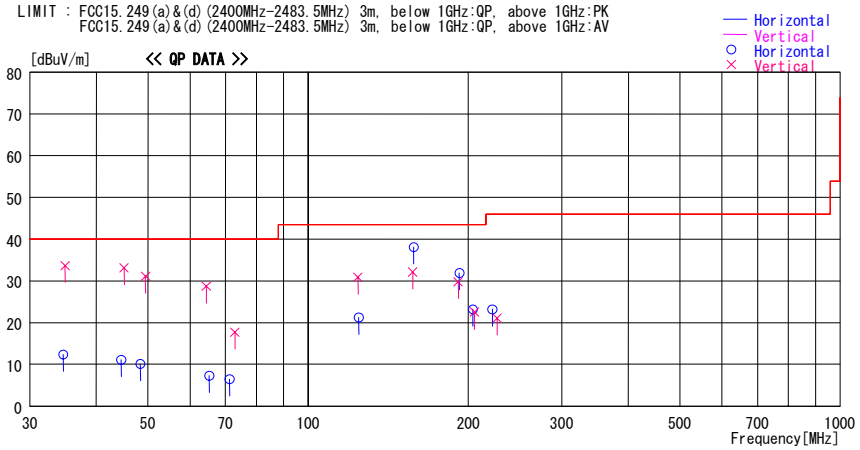
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/05/18

Company	: TANITA Corporation	Report No.	: 29GE0111-HO-01
Kind of EUT	: RF module	Power	: DC 6.0V(AC120V 60Hz)
Model No.	: BC5849501	Temp./Humi.	: 21deg.C. / 66%
Serial No.	: MP001	Engineer	: Hisayoshi Sato

Mode / Remarks : Tx High ch(2479MHz) Worst axis(Hor:Z-axis Ver:X-axis)

LIMIT : FCC15.249(a)&(d) (2400MHz-2483.5MHz) 3m, below 1GHz:QP, above 1GHz:PK
FCC15.249(a)&(d) (2400MHz-2483.5MHz) 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
34.678	20.9	QP	16.5	-25.0	12.4	359	394	Hori.	40.0	27.6	
34.956	42.1	QP	16.5	-24.9	33.7	353	100	Vert.	40.0	6.3	
44.561	23.3	QP	12.5	-24.7	11.1	202	394	Hori.	40.0	28.9	
45.144	45.5	QP	12.3	-24.7	33.1	353	100	Vert.	40.0	6.9	
48.421	23.5	QP	11.1	-24.5	10.1	0	100	Hori.	40.0	29.9	
49.512	44.8	QP	10.8	-24.5	31.1	124	100	Vert.	40.0	8.9	
64.412	45.8	QP	7.2	-24.3	28.7	132	100	Vert.	40.0	11.3	
65.234	24.5	QP	7.1	-24.3	7.3	355	100	Hori.	40.0	32.7	
71.156	24.3	QP	6.4	-24.2	6.5	147	215	Hori.	40.0	33.5	
72.843	35.6	QP	6.3	-24.2	17.7	190	100	Vert.	40.0	22.3	
124.164	41.6	QP	13.0	-23.7	30.9	1	100	Vert.	43.5	12.6	
124.512	31.8	QP	13.1	-23.6	21.3	147	204	Hori.	43.5	22.2	
157.312	40.4	QP	14.9	-23.2	32.1	238	100	Vert.	43.5	11.4	
158.106	46.3	QP	15.0	-23.2	38.1	342	211	Hori.	43.5	5.4	
191.546	36.5	QP	16.3	-23.0	29.8	238	100	Vert.	43.5	13.7	
192.448	38.4	QP	16.3	-22.8	31.9	354	131	Hori.	43.5	11.6	
204.152	29.4	QP	16.6	-22.8	23.2	352	169	Hori.	43.5	20.3	
205.655	28.6	QP	16.6	-22.7	22.5	193	100	Vert.	43.5	21.0	
222.167	28.8	QP	17.0	-22.6	23.2	352	169	Hori.	46.0	22.8	
226.578	26.5	QP	17.1	-22.5	21.1	280	100	Vert.	46.0	24.9	

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

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Radiated Spurious Emission (below 1GHz)
Rx, Ch: Mid

DATA OF RADIATED EMISSION TEST

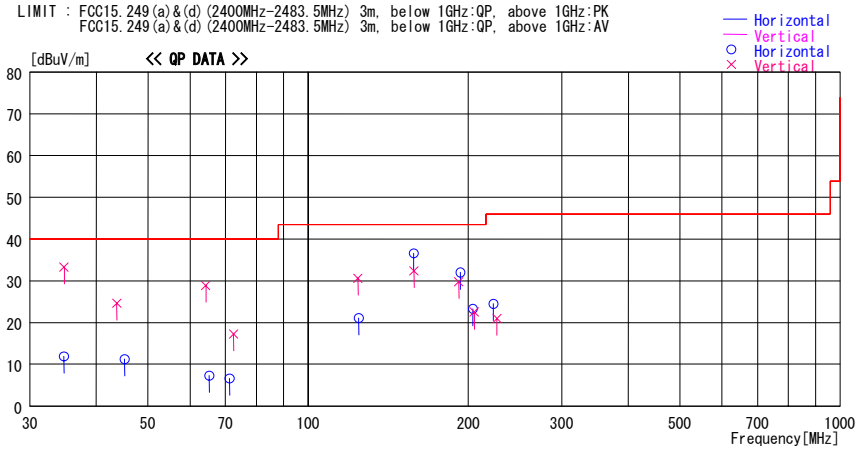
UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2009/05/19

Company : TANITA Corporation
Kind of EUT : RF module
Model No. : BC5849501
Serial No. : MP001

Report No. : 29GE0111-HO-01
Power : DC 6.0V(AC120V 60Hz)
Temp./Humi. : 21deg.C. / 66%
Engineer : Hisayoshi Sato

Mode / Remarks : Rx Mid ch(2440MHz) Worst axis(Hor:Z-axis Ver:X-axis)

LIMIT : FCC15.249(a)&(d)(2400MHz-2483.5MHz) 3m, below 1GHz:QP, above 1GHz:PK
FCC15.249(a)&(d)(2400MHz-2483.5MHz) 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
34.742	20.4	QP	16.5	-25.0	11.9	359	394	Hori.	40.0	28.1	
45.212	23.7	QP	12.3	-24.7	11.3	202	394	Hori.	40.0	28.8	
34.812	41.8	QP	16.5	-25.0	33.3	353	100	Vert.	40.0	6.7	
43.720	36.5	QP	12.8	-24.7	24.6	353	100	Vert.	40.0	15.4	
64.260	45.9	QP	7.3	-24.3	28.9	132	100	Vert.	40.0	11.1	
65.188	24.5	QP	7.1	-24.3	7.3	355	100	Hori.	40.0	32.7	
71.161	24.4	QP	6.4	-24.2	6.6	147	215	Hori.	40.0	33.4	
72.511	35.2	QP	6.3	-24.2	17.3	190	100	Vert.	40.0	22.7	
124.211	41.3	QP	13.0	-23.7	30.6	1	100	Vert.	43.5	12.9	
124.562	31.6	QP	13.1	-23.6	21.1	147	204	Hori.	43.5	22.4	
158.220	40.6	QP	15.0	-23.2	32.4	238	100	Vert.	43.5	11.1	
158.112	44.8	QP	15.0	-23.2	36.6	342	211	Hori.	43.5	6.9	
192.133	36.4	QP	16.3	-22.9	29.8	238	100	Vert.	43.5	13.7	
193.441	38.5	QP	16.3	-22.8	32.0	354	131	Hori.	43.5	11.5	
204.135	29.5	QP	16.6	-22.8	23.3	352	169	Hori.	43.5	20.2	
205.583	28.6	QP	16.6	-22.7	22.5	193	100	Vert.	43.5	21.0	
222.992	30.1	QP	17.0	-22.6	24.5	352	169	Hori.	46.0	21.5	
226.533	26.4	QP	17.1	-22.5	21.0	280	100	Vert.	46.0	25.0	

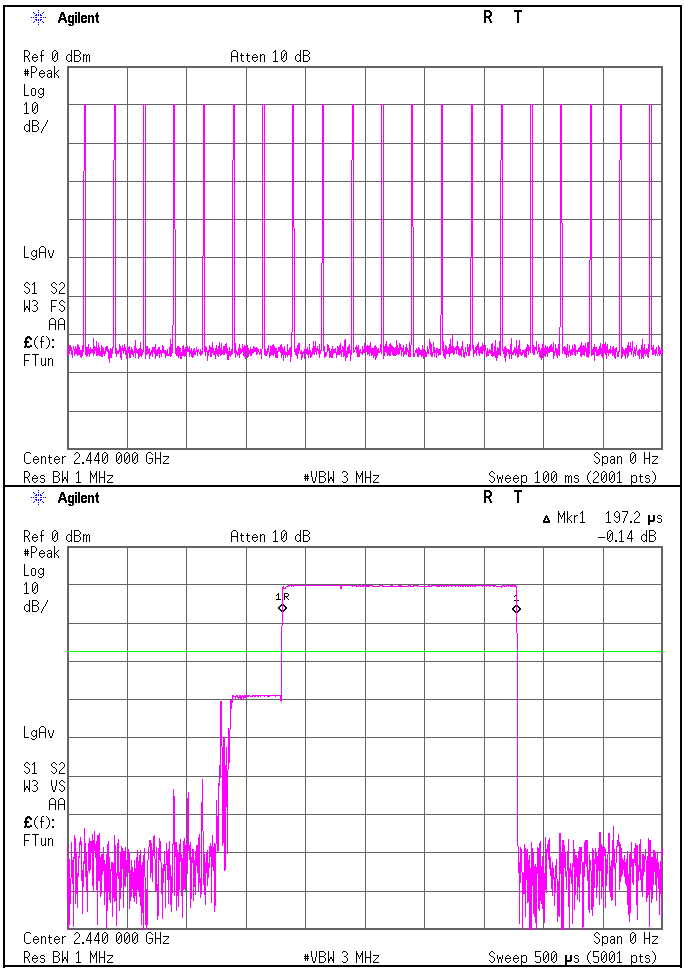
CHART:WITH FACTOR ANT TYPE: -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

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

Transmitting Specification (Duty Cycle)

Pulse width [ms]	Number of pulses (in 100ms)	ON Time(in 100ms) [ms]	Duty	Duty factor [dB]
0.1972	20	3.9440	0.03944	-28.0

*1)ON time(in 100ms) = Pulse width [ms] * Number of pulses
*2)The train of pulses was exceeding 100msec, and that sampled 100msec was the worst case against the pulse train.
*3)Duty factor = $20\log_{10}$(Duty)



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Electric Field Strength of Fundamental and Spurious Emission (above 1GHz)
Tx, Ch: Low

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	: TANITA Corporation	REPORT NO	: 29GE0111-HO-01
Equipment	: RF module	REGULATION	: FCC15.249(a),(d) and (e)/RSS-210 A2.9
Model	: BC5849501	TEST DISTANCE	: 3m (below 10GHz), 1m (above 10GHz)
Sample No.	: MP001	DATE	: 05/18/2009
Power	: DC 6.0V(AC 120V / 60Hz)	TEMPERATURE	: 21deg.C
Mode	: Transmitting 2405MHz	HUMIDITY	: 66%
Remarks	: Hor Z-axis , Ver X-axis	ENGINEER	: Hironobu Ohnishi

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass		RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter		HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]		[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss													
1	2335.0	69.3	69.8	27.1	32.8	2.7	0.0		66.3	66.8	73.9	7.6	7.1
2	2388.1	70.7	70.5	27.2	32.7	2.8	0.0		68.0	67.8	73.9	5.9	6.1
3	2390.0	62.2	61.8	27.2	32.7	2.8	0.0		59.5	59.1	73.9	14.4	14.8
4	2400.0	71.1	68.1	27.2	32.7	2.8	0.0		68.4	65.4	73.9	5.5	8.5
5 **	2405.0	101.9	98.4	27.2	32.7	2.8	0.0		99.2	95.7	113.9	14.7	18.2
6	4810.0	51.5	52.0	31.5	31.9	4.1	1.2		56.4	56.9	73.9	17.5	17.0
7	7215.0	54.0	49.0	36.0	32.6	4.6	1.0		63.0	58.0	73.9	10.9	15.9
8	9620.0	44.5	45.2	38.3	33.4	5.5	1.2		56.1	56.8	73.9	17.8	17.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac													
9	12025.0	NS	NS	-	-	-	-		-	-	73.9	-	-
10	14430.0	NS	NS	-	-	-	-		-	-	73.9	-	-
11	16835.0	NS	NS	-	-	-	-		-	-	73.9	-	-
12	19240.0	NS	NS	-	-	-	-		-	-	73.9	-	-
13	21645.0	NS	NS	-	-	-	-		-	-	73.9	-	-
14	24050.0	44.6	45.1	38.6	32.5	8.4	0.0		49.6	50.1	73.9	24.3	23.8

PK DETECT with Duty factor (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	Duty	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	Factor	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss + Duty Factor													
1	2335.0	69.3	69.8	27.1	32.8	2.7	0.0	-28.0	38.3	38.8	53.9	15.6	15.1
2	2388.1	70.7	70.5	27.2	32.7	2.8	0.0	-28.0	40.0	39.8	53.9	13.9	14.1
3	2390.0	62.2	61.8	27.2	32.7	2.8	0.0	-28.0	31.5	31.1	53.9	22.4	22.8
4	2400.0	71.1	68.1	27.2	32.7	2.8	0.0	-28.0	40.4	37.4	53.9	13.5	16.5
5 **	2405.0	101.9	98.4	27.2	32.7	2.8	0.0	-28.0	71.2	67.7	93.9	22.7	26.2
6	4810.0	51.5	52.0	31.5	31.9	4.1	1.2	-28.0	28.4	28.9	53.9	25.5	25.0
7	7215.0	54.0	49.0	36.0	32.6	4.6	1.0	-28.0	35.0	30.0	53.9	18.9	23.9
8	9620.0	44.5	45.2	38.3	33.4	5.5	1.2	-28.0	28.1	28.8	53.9	25.8	25.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac + Duty Factor													
9	12025.0	NS	NS	-	-	-	-	-28.0	-	-	53.9	-	-
10	14430.0	NS	NS	-	-	-	-	-28.0	-	-	53.9	-	-
11	16835.0	NS	NS	-	-	-	-	-28.0	-	-	53.9	-	-
12	19240.0	NS	NS	-	-	-	-	-28.0	-	-	53.9	-	-
13	21645.0	NS	NS	-	-	-	-	-28.0	-	-	53.9	-	-
14	24050.0	44.6	45.1	38.6	32.5	8.4	0.0	-28.0	21.6	22.1	53.9	32.3	31.8

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
* The test result is round off to one or two decimal places, so some differences might be observed.
* Hi-Pass Fiter was not used for factor 0.0dB of the above table.
* NS: No signal detect
** Carieer

Electric Field Strength of Fundamental and Spurious Emission (above 1GHz)
Tx, Ch: Mid

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	: TANITA Corporation	REPORT NO	: 29GE0111-HO-01
Equipment	: RF module	REGULATION	: FCC15.249(a), (d), and (e)/RSS-210 A2.9
Model	: BC5849501	TEST DISTANCE	: 3m (below 10GHz), 1m (above 10GHz)
Sample No.	: MP001	DATE	: 05/18/2009
Power	: DC 6.0V(AC 120V / 60Hz)	TEMPERATURE	: 21deg.C
Mode	: Transmitting 2440MHz	HUMIDITY	: 66%
Remarks	: Hor Z-axis , Ver X-axis	ENGINEER	: Hironobu Ohnishi

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass		RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter		HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]		[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss													
1	2335.2	69.7	68.8	27.1	32.8	2.7	0.0		66.7	65.8	73.9	7.2	8.1
2	2388.4	70.8	69.6	27.2	32.7	2.8	0.0		68.1	66.9	73.9	5.8	7.0
3 **	2440.0	101.3	99.2	27.2	32.7	2.8	0.0		98.6	96.5	113.9	15.3	17.4
4	2792.0	45.2	44.8	28.1	32.6	3	0.0		43.7	43.3	73.9	30.2	30.6
5	4880.0	50.9	50.6	31.7	31.9	4.2	1.1		56.0	55.7	73.9	17.9	18.2
6	7320.0	52.0	54.9	36.1	32.6	4.6	1.0		61.1	64.0	73.9	12.8	9.9
7	9760.0	NS	NS	-	-	-	-		-	-	73.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac													
8	12200.0	41.7	45.3	39.1	33.5	6.6	1.5		45.9	49.5	73.9	28.0	24.4
9	14640.0	NS	NS	-	-	-	-		-	-	73.9	-	-
10	17080.0	NS	NS	-	-	-	-		-	-	73.9	-	-
11	19520.0	NS	NS	-	-	-	-		-	-	73.9	-	-
12	21960.0	NS	NS	-	-	-	-		-	-	73.9	-	-
13	24400.0	45.6	45.1	38.9	32.3	8.4	0.0		51.1	50.6	73.9	22.8	23.3

PK DETECT with Duty factor (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	Duty	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	Factor	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss + Duty Factor													
1	2335.2	69.7	68.8	27.1	32.8	2.7	0.0	-28.0	38.7	37.8	53.9	15.2	16.1
2	2388.4	70.8	69.6	27.2	32.7	2.8	0.0	-28.0	40.1	38.9	53.9	13.8	15.0
3 **	2440.0	101.3	99.2	27.2	32.7	2.8	0.0	-28.0	70.6	68.5	93.9	23.3	25.4
4	2792.0	45.2	44.8	28.1	32.6	3.0	0.0	-28.0	15.7	15.3	53.9	38.2	38.6
5	4880.0	50.9	50.6	31.7	31.9	4.2	1.1	-28.0	28.0	27.7	53.9	25.9	26.2
6	7320.0	52.0	54.9	36.1	32.6	4.6	1.0	-28.0	33.1	36.0	53.9	20.8	17.9
7	9760.0	NS	NS	-	-	-	-	-28.0	-	-	53.9	-	-
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac + Duty Factor													
8	12200.0	41.7	45.3	39.1	33.5	6.6	1.5	-28.0	17.9	21.5	53.9	36.0	32.4
9	14640.0	NS	NS	-	-	-	-	-28.0	-	-	53.9	-	-
10	17080.0	NS	NS	-	-	-	-	-28.0	-	-	53.9	-	-
11	19520.0	NS	NS	-	-	-	-	-28.0	-	-	53.9	-	-
12	21960.0	NS	NS	-	-	-	-	-28.0	-	-	53.9	-	-
13	24400.0	45.6	45.1	38.9	32.3	8.4	0.0	-28.0	23.1	22.6	53.9	30.8	31.3

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
* The test result is round off to one or two decimal places, so some differences might be observed.
* Hi-Pass Fiter was not used for factor 0.0dB of the above table.
* NS: No signal detect
** Carieer

Electric Field Strength of Fundamental and Spurious Emission (above 1GHz)
Tx, Ch: High

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	: TANITA Corporation	REPORT NO	: 29GE0111-HO-01
Equipment	: RF module	REGULATION	: FCC15.249(a), (d), and (e)/RSS-210 A2.9
Model	: BC5849501	TEST DISTANCE	: 3m (below 10GHz), 1m (above 10GHz)
Sample No.	: MP001	DATE	: 05/18/2009
Power	: DC 6.0V(AC 120V / 60Hz)	TEMPERATURE	: 21deg.C
Mode	: Transmitting 2479MHz	HUMIDITY	: 66%
Remarks	: Hor Z-axis , Ver X-axis	ENGINEER	: Hironobu Ohnishi

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass		RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter		HOR	VER	PK	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]		[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss													
1	2445.9	72.0	68.9	27.2	32.7	2.8	0.0		69.3	66.2	73.9	4.6	7.7
2 **	2479.0	101.4	96.6	27.3	32.7	2.8	0.0		98.8	94.0	113.9	15.1	19.9
3	2483.5	71.6	66.7	27.3	32.7	2.8	0.0		69.0	64.1	73.9	4.9	9.8
4	2569.9	68.2	60.7	27.5	32.6	2.9	0.0		66.0	58.5	73.9	7.9	15.4
5	4958.0	50.3	47.8	31.8	31.9	4.2	1.1		55.5	53.0	73.9	18.4	20.9
6	7437.0	51.3	58.9	36.3	32.7	4.7	1.0		60.6	68.2	73.9	13.3	5.7
7	9916.0	42.1	52.0	38.6	33.5	5.6	1.4		54.2	64.1	73.9	19.7	9.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac													
8	12395.0	41.4	43.5	39.1	33.5	6.7	1.6		45.8	47.9	73.9	28.1	26.0
9	14874.0	NS	NS	-	-	-	-		-	-	73.9	-	-
10	17353.0	NS	NS	-	-	-	-		-	-	73.9	-	-
11	19832.0	NS	NS	-	-	-	-		-	-	73.9	-	-
12	22311.0	NS	NS	-	-	-	-		-	-	73.9	-	-
13	24790.0	45.6	45.4	39.2	32.2	8.5	0.0		51.6	51.4	73.9	22.3	22.5

PK DETECT with Duty factor (RBW: 1MHz, VBW: 1MHz)

No.	FREQ	S/A READING		ANT	AMP	CABLE	Hi-Pass	Duty	RESULT		Limit	MARGIN	
		HOR	VER	Factor	GAIN	LOSS	Filter	Factor	HOR	VER	AV	HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss + Duty Factor													
1	2445.9	72.0	68.9	27.2	32.7	2.8	0.0	-28.0	41.3	38.2	53.9	12.6	15.7
2 **	2479.0	101.4	96.6	27.3	32.7	2.8	0.0	-28.0	70.8	66.0	93.9	23.1	27.9
3	2483.5	71.6	66.7	27.3	32.7	2.8	0.0	-28.0	41.0	36.1	53.9	12.9	17.8
4	2569.9	68.2	60.7	27.5	32.6	2.9	0.0	-28.0	38.0	30.5	53.9	15.9	23.4
5	4958.0	50.3	47.8	31.8	31.9	4.2	1.1	-28.0	27.5	25.0	53.9	26.4	28.9
6	7437.0	51.3	58.9	36.3	32.7	4.7	1.0	-28.0	32.6	40.2	53.9	21.3	13.7
7	9916.0	42.1	52.0	38.6	33.5	5.6	1.4	-28.0	26.2	36.1	53.9	27.7	17.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac + Duty Factor													
8	12395.0	41.4	43.5	39.1	33.5	6.7	1.6	-28.0	17.8	19.9	53.9	36.1	34.0
9	14874.0	NS	NS	-	-	-	-	-28.0	-	-	53.9	-	-
10	17353.0	NS	NS	-	-	-	-	-28.0	-	-	53.9	-	-
11	19832.0	NS	NS	-	-	-	-	-28.0	-	-	53.9	-	-
12	22311.0	NS	NS	-	-	-	-	-28.0	-	-	53.9	-	-
13	24790.0	45.6	45.4	39.2	32.2	8.5	0.0	-28.0	23.6	23.4	53.9	30.3	30.5

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
* The test result is round off to one or two decimal places, so some differences might be observed.
* Hi-Pass Fiter was not used for factor 0.0dB of the above table.
* NS: No signal detect
** Carieer

Radiated Spurious Emission (above 1GHz)
Rx, Ch: Mid

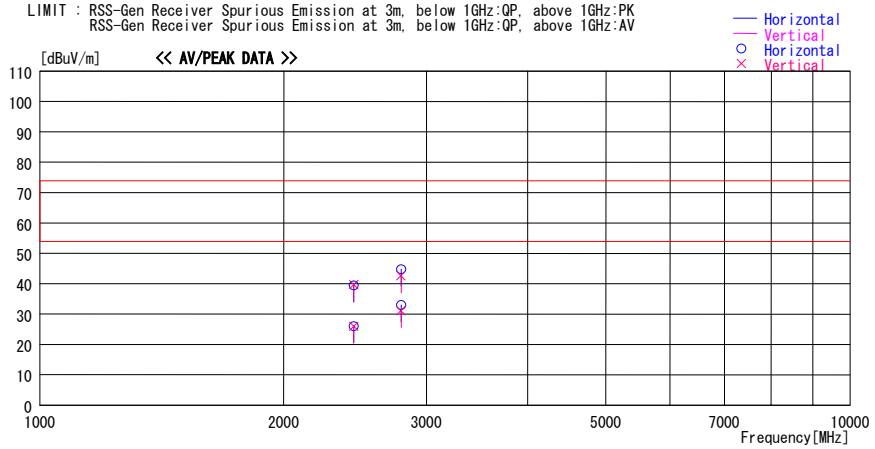
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2009/05/18

Company	: TANITA Corporation	Report No.	: 29GE0111-HO-01
Kind of EUT	: RF module	Power	: DC 6.0V(AC120V 60Hz)
Model No.	: BC5849501	Temp./Humi.	: 21deg.C. / 66%
Serial No.	: MP001	Engineer	: Hironobu Ohnishi

Mode / Remarks : Rx Mch(2440MHz) Worst axis(Hor:Z-axis Ver:X-axis)

LIMIT : RSS-Gen Receiver Spurious Emission at 3m, below 1GHz:QP, above 1GHz:PK
RSS-Gen Receiver Spurious Emission at 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
2440.000	42.2	PK	27.2	-29.9	39.5	0	100	Hori.	73.9	34.4	NS
2440.000	42.4	PK	27.2	-29.9	39.7	0	100	Vert.	73.9	34.2	NS
2440.000	28.7	AV	27.2	-29.9	26.0	0	100	Hori.	53.9	27.9	NS VBW=10Hz
2440.000	28.7	AV	27.2	-29.9	26.0	0	100	Vert.	53.9	27.9	NS VBW=10Hz
2792.020	46.3	PK	28.1	-29.6	44.8	103	100	Hori.	73.9	29.1	
2792.020	44.1	PK	28.1	-29.6	42.6	118	100	Vert.	73.9	31.3	
2792.020	34.5	AV	28.1	-29.6	33.0	103	100	Hori.	53.9	20.9	VBW=110Hz
2792.020	32.6	AV	28.1	-29.6	31.1	118	100	Vert.	53.9	22.8	VBW=110Hz

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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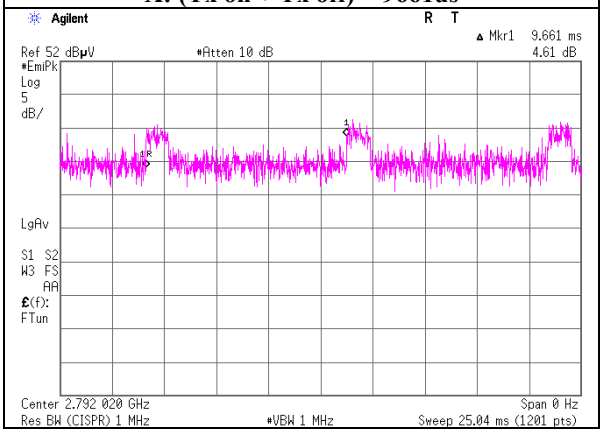
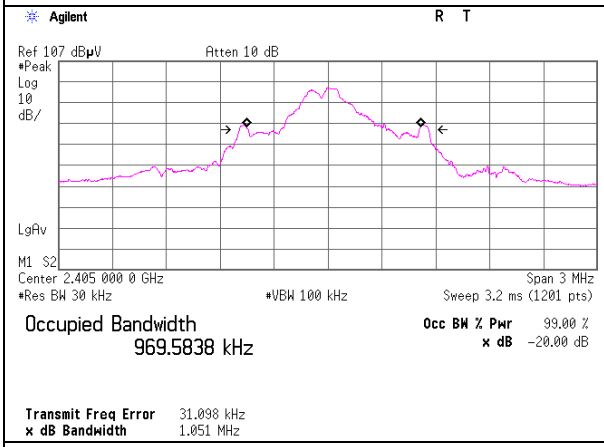
VBW(AV) Calculation

VBW: 1/x = 103.5Hz < 110Hz
X: (Tx on + Tx off) = 9661us

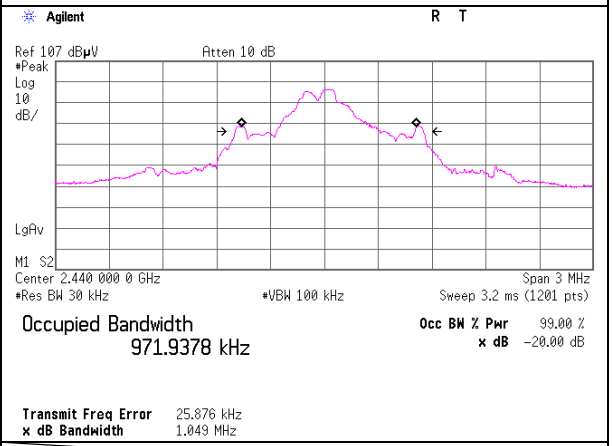


99%Occupied Bandwidth

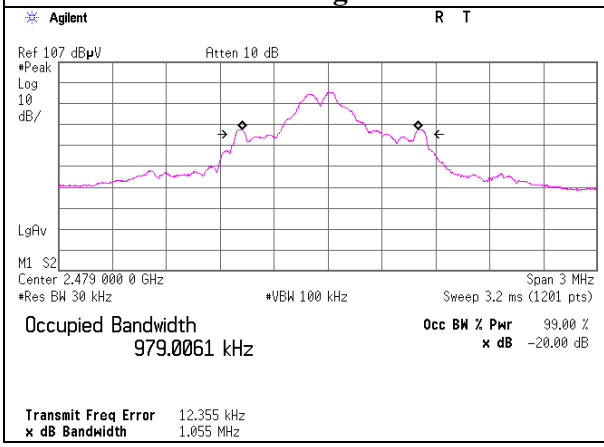
Ch:Low



Ch:Mid



Ch:High



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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	Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE/CE	2009/02/03 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	-	RE/CE	2009/02/06 * 12
MJM-07	Measure	PROMART	SEN1955	-	RE/CE	-
CUST-MSTW-14	EMI measurement program	TSJ	TEPTO-DV	-	RE/CE	-
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	9120D-557	RE	2008/08/11 * 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	2009/04/30 * 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
MSA-04	Spectrum Analyzer	Agilent	E4448A	US44300523	RE	2008/08/18 * 12
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	8127364	CE	2009/02/18 * 12
MCC-113	Coaxial cable	Fujikura/Suhner/TSJ	-	-	CE	2008/07/03 * 12
MSA-05	Spectrum Analyzer	Advantest	R3273	160400285	RE/CE	2008/06/25 * 12
MTR-07	Test Receiver	Rohde & Schwarz	ESCI	100635	RE/CE	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

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: CE: Conducted Emission
RE: Radiated Emission