

APPENDIX 2: Data of EMI test

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

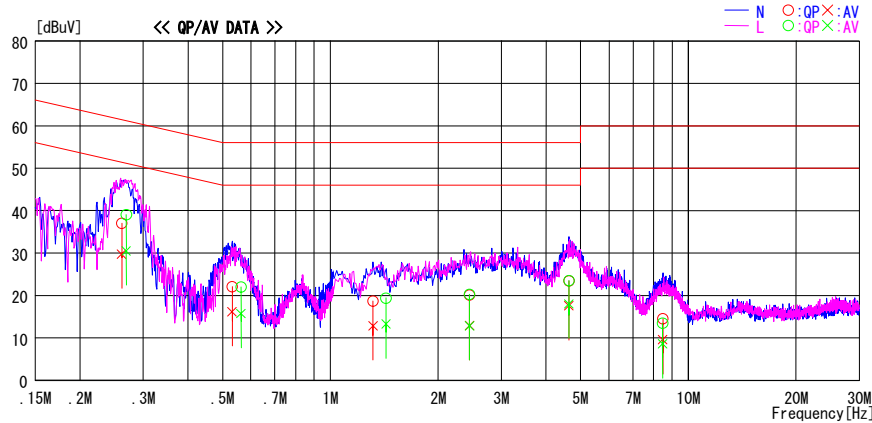
UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2009/04/28

Company : DENSO WAVE INCORPORATED
Kind of EUT : BHT-800 MAIN BOARD
Model No. : DWL001
Serial No. : MAC ID (0013E0F39B98)

Report No. : 29FE0054-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 23deg. C. / 37%
Engineer : Tomotaka Sasagawa

Mode / Remarks : 11b_11Mbps_Tx2412MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.26136	36.7	29.4	0.3	37.0	29.7	61.4	51.4	24.4	21.7	N	
0.53193	21.8	15.9	0.3	22.1	16.2	56.0	46.0	33.9	29.8	N	
1.31559	18.3	12.4	0.4	18.7	12.8	56.0	46.0	37.3	33.2	N	
2.44514	19.7	12.5	0.4	20.1	12.9	56.0	46.0	35.9	33.1	N	
4.63519	22.9	17.0	0.6	23.5	17.6	56.0	46.0	32.6	28.4	N	
8.48086	13.7	8.7	0.9	14.6	9.5	60.0	50.0	45.5	40.5	N	
0.26911	38.7	30.3	0.3	39.0	30.6	61.1	51.1	22.1	20.6	L	
0.56314	21.7	15.4	0.3	22.0	15.7	56.0	46.0	34.0	30.3	L	
1.43140	19.0	12.9	0.4	19.4	13.3	56.0	46.0	36.6	32.7	L	
2.44590	19.9	12.5	0.4	20.3	12.9	56.0	46.0	35.7	33.2	L	
4.63519	22.9	17.4	0.6	23.5	18.0	56.0	46.0	32.5	28.0	L	
8.47179	12.6	7.7	0.9	13.5	8.6	60.0	50.0	46.5	41.4	L	

CHART: WITH FACTOR, Peak hold data. CALCULATION: 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

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2009/04/28

Company : DENSO WAVE INCORPORATED
Kind of EUT : BHT-800 MAIN BOARD
Model No. : DWML001
Serial No. : MAC ID (0013E0F39B98)

Report No. : 29FE0054-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 23deg. C. / 37%
Engineer : Tomotaka Sasagawa

Mode / Remarks : 11b_11Mbps_Tx2437MHz

LIMIT : FCC15.207 QP
FCC15.207 AV

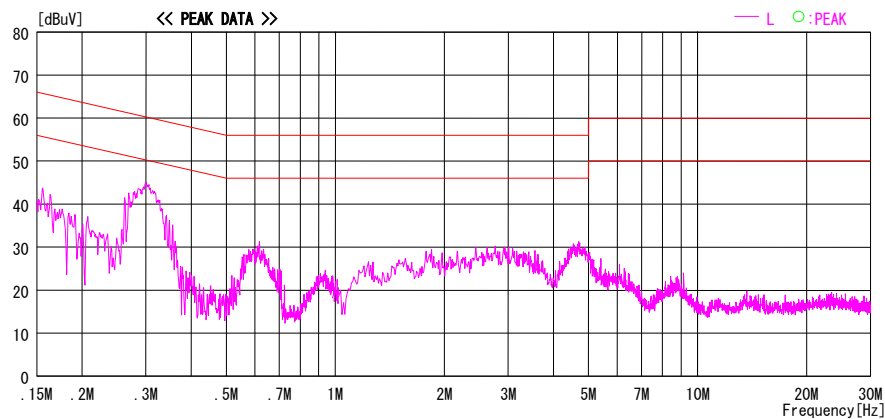
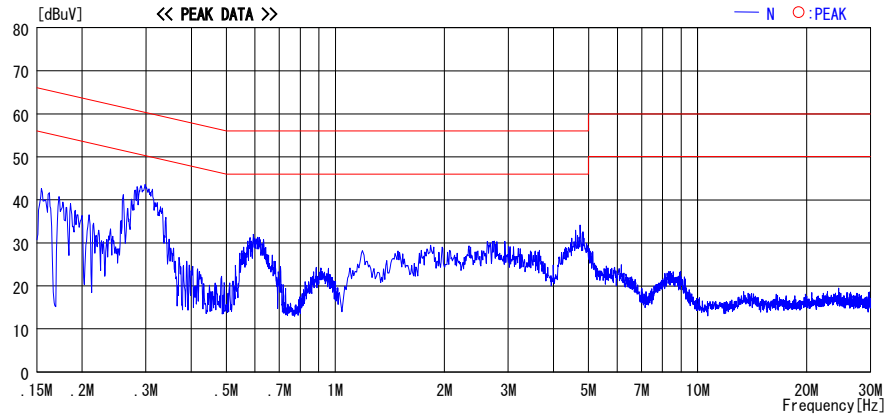


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C.F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2009/04/28

Company : DENSO WAVE INCORPORATED
Kind of EUT : BHT-800 MAIN BOARD
Model No. : DWHL001
Serial No. : MAC ID (0013E0F39B98)

Report No. : 29FE0054-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 23deg. C. / 37%
Engineer : Tomotaka Sasagawa

Mode / Remarks : 11b_11Mbps_Tx2462MHz

LIMIT : FCC15.207 QP
FCC15.207 AV

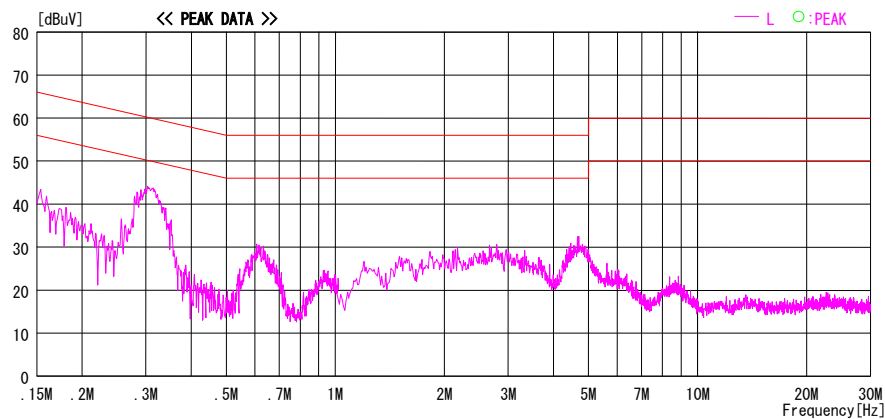
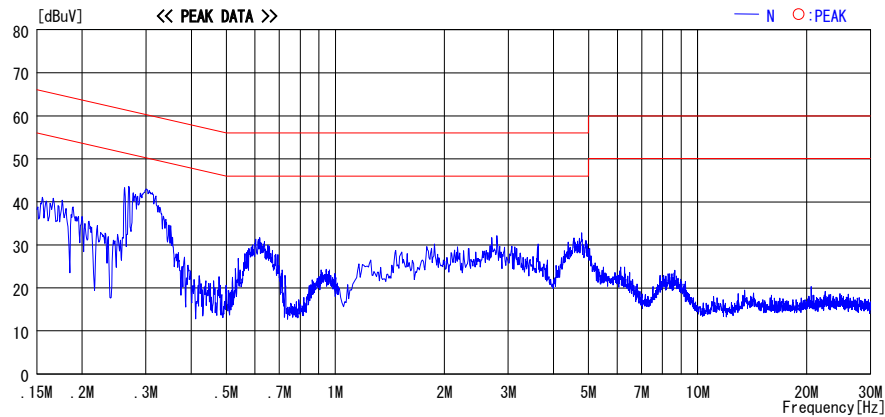


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C.F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

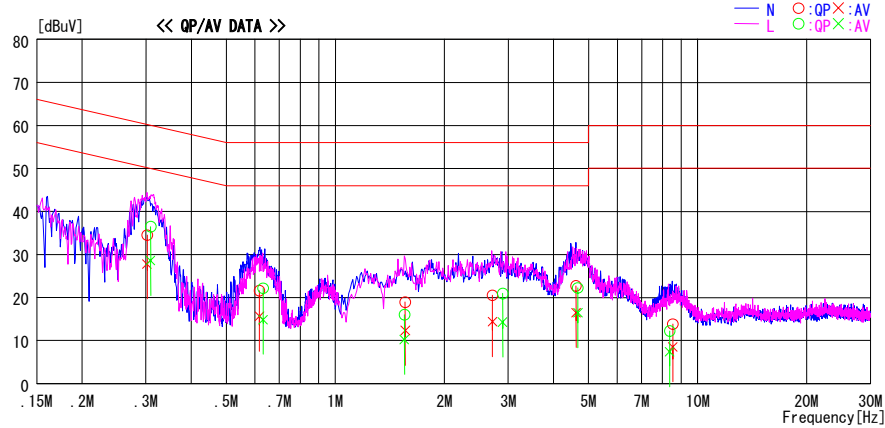
UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2009/04/28

Company : DENSO WAVE INCORPORATED
Kind of EUT : BHT-800 MAIN BOARD
Model No. : DWML001
Serial No. : MAC 1D (0013E0F39B98)

Report No. : 29FE0054-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 23deg.C. / 37%
Engineer : Tomotaka Sasagawa

Mode / Remarks : 11g_24Mbps_Tx2412MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.30225	34.2	27.5	0.3	34.5	27.8	60.2	50.2	25.7	22.4	N	
0.61719	21.3	15.3	0.3	21.6	15.6	56.0	46.0	34.4	30.4	N	
1.56048	18.5	11.9	0.4	18.9	12.3	56.0	46.0	37.1	33.7	N	
2.71237	20.0	13.9	0.5	20.5	14.4	56.0	46.0	35.5	31.6	N	
4.61705	22.1	15.9	0.6	22.7	16.5	56.0	46.0	33.3	29.5	N	
8.53529	12.9	7.6	0.9	13.8	8.5	60.0	50.0	46.2	41.5	N	
0.30903	36.2	28.3	0.3	36.5	28.6	60.0	50.0	23.6	21.5	L	
0.63174	21.9	14.6	0.3	22.2	14.9	56.0	46.0	33.8	31.1	L	
1.55141	15.6	9.8	0.4	16.0	10.2	56.0	46.0	40.0	35.8	L	
2.89778	20.4	13.7	0.5	20.9	14.2	56.0	46.0	35.1	31.8	L	
4.67134	21.7	15.8	0.6	22.3	16.4	56.0	46.0	33.7	29.6	L	
8.37360	11.3	6.5	0.9	12.2	7.4	60.0	50.0	47.8	42.6	L	

CHART: WITH FACTOR, Peak hold data. CALCULATION: 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

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2009/04/28

Company : DENSO WAVE INCORPORATED
Kind of EUT : BHT-800 MAIN BOARD
Model No. : DWHL001
Serial No. : MAC ID (0013E0F39B98)

Report No. : 29FE0054-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 23deg.C. / 37%
Engineer : Tomotaka Sasagawa

Mode / Remarks : 11g_24Mbps_Tx2437MHz

LIMIT : FCC15.207 QP
FCC15.207 AV

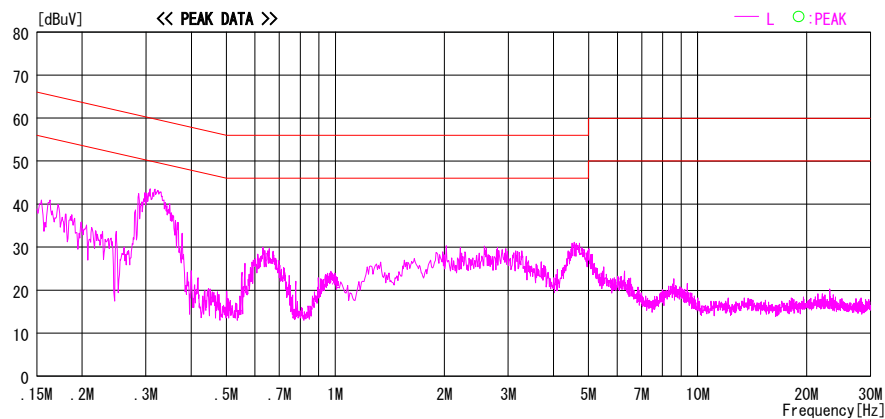
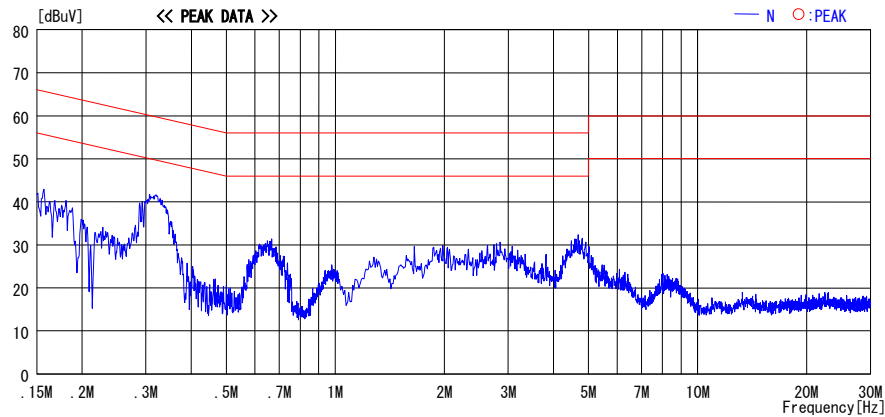


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C.F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2009/04/28

Company : DENSO WAVE INCORPORATED
Kind of EUT : BHT-800 MAIN BOARD
Model No. : DWHL001
Serial No. : MAC ID (0013E0F39B98)

Report No. : 29FE0054-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 23deg.C. / 37%
Engineer : Tomotaka Sasagawa

Mode / Remarks : 11g_24Mbps_Tx2462MHz

LIMIT : FCC15.207 QP
FCC15.207 AV

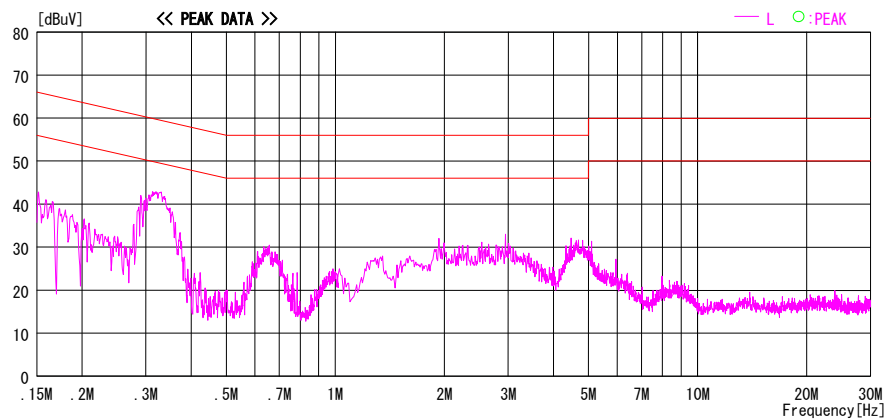
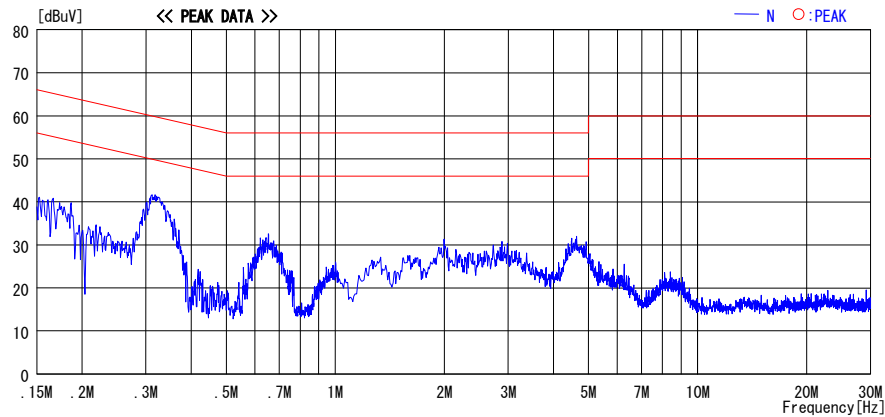


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C.F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

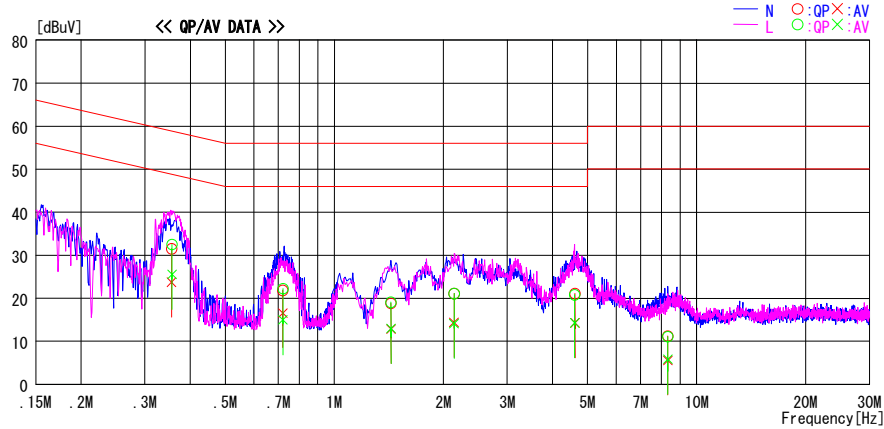
UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2009/04/28

Company : DENSO WAVE INCORPORATED
Kind of EUT : BHT-800 MAIN BOARD
Model No. : DWL001
Serial No. : MAC ID (0013E0F39B98)

Report No. : 29FE0054-HO-02
Power : AC 120V / 60Hz
Temp./Humi. : 23deg.C. / 37%
Engineer : Tomotaka Sasagawa

Mode / Remarks : Rx 2437MHz

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.35532	31.2	23.4	0.3	31.5	23.7	58.8	48.8	27.3	25.1	N	
0.72072	21.6	16.3	0.3	21.9	16.6	56.0	46.0	34.2	29.4	N	
1.43350	18.4	12.4	0.4	18.8	12.8	56.0	46.0	37.2	33.2	N	
2.14096	20.7	14.0	0.4	21.1	14.4	56.0	46.0	34.9	31.7	N	
4.61705	20.5	13.6	0.6	21.1	14.2	56.0	46.0	34.9	31.8	N	
8.32667	10.3	4.7	0.9	11.2	5.6	60.0	50.0	48.8	44.4	N	
0.35619	32.2	25.2	0.3	32.5	25.5	58.8	48.8	26.3	23.3	L	
0.72159	21.9	14.7	0.3	22.2	15.0	56.0	46.0	33.8	31.0	L	
1.43350	18.7	12.6	0.4	19.1	13.0	56.0	46.0	36.9	33.1	L	
2.14096	20.7	13.7	0.4	21.1	14.1	56.0	46.0	34.9	31.9	L	
4.60798	20.2	13.7	0.6	20.8	14.3	56.0	46.0	35.2	31.7	L	
8.32667	10.2	4.9	0.9	11.1	5.8	60.0	50.0	48.9	44.2	L	

CHART: WITH FACTOR, Peak hold data. CALCULATION: 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.

6dB Bandwidth

UL Japan, Inc.
Head Office EMC Lab. No.6 Measurement Room

Company : DENSO WAVE INCORPORATED
Equipment : BHT-800 MAIN BOARD
Model No. : DWWL001
Serial No. : MAC ID(0013E0F39B98)
Power : AC120V/60Hz
Mode : 11b 11Mbps Tx (Ch L, M, H)
: 11g 24Mbps Tx (Ch L, M, H)

Test Report No. : 29FE0054-HO-02
Regulation : FCC15.247(a)(2)/RSS-210A8.2(a)
Test distance : -
Date : 04/16/2009
Temperature : 21 deg.C.
Humidity : 50%
Engineer : Katsunori Okai

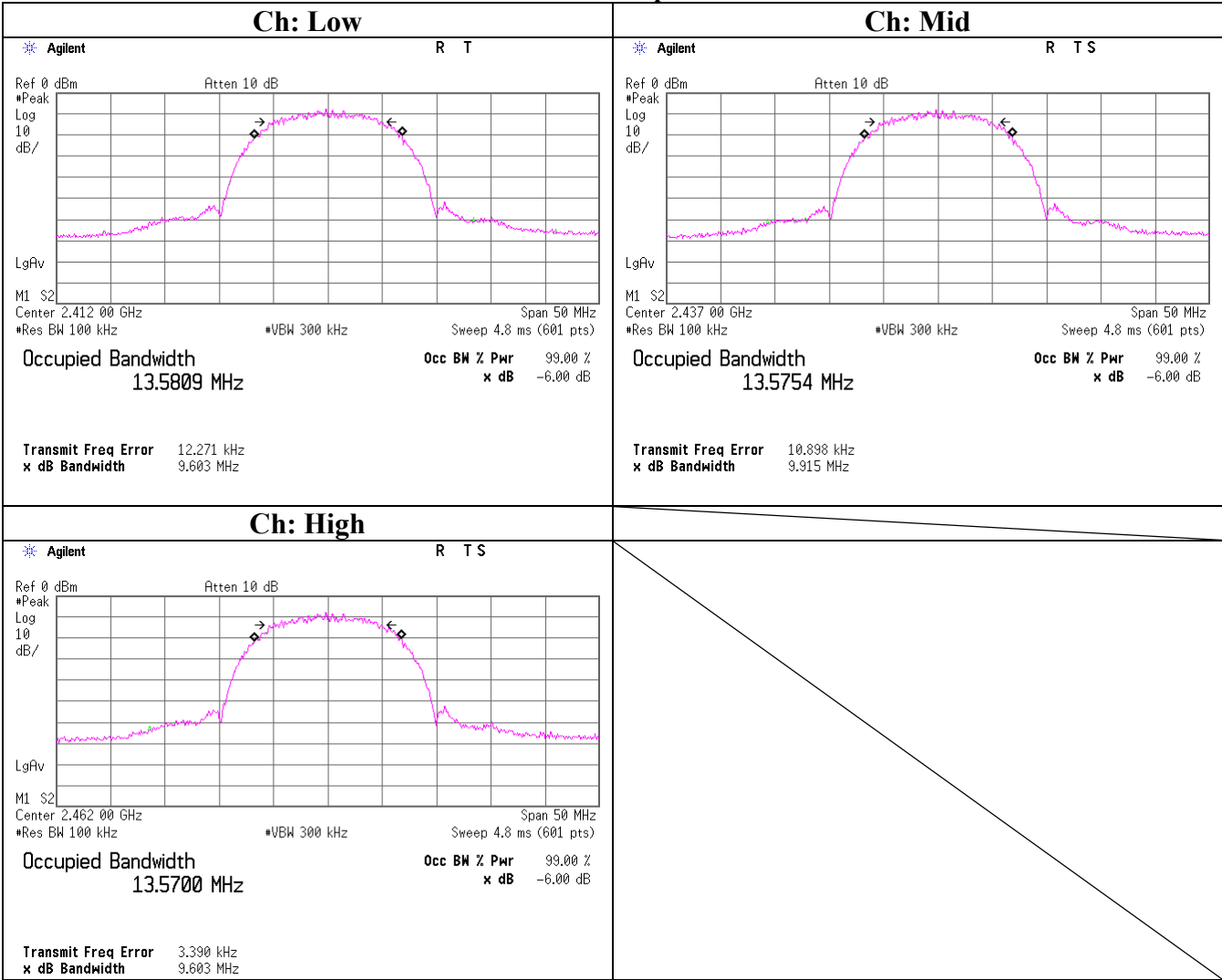
11b

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	9.603	>500
Mid	2437.0	9.915	>500
High	2462.0	9.603	>500

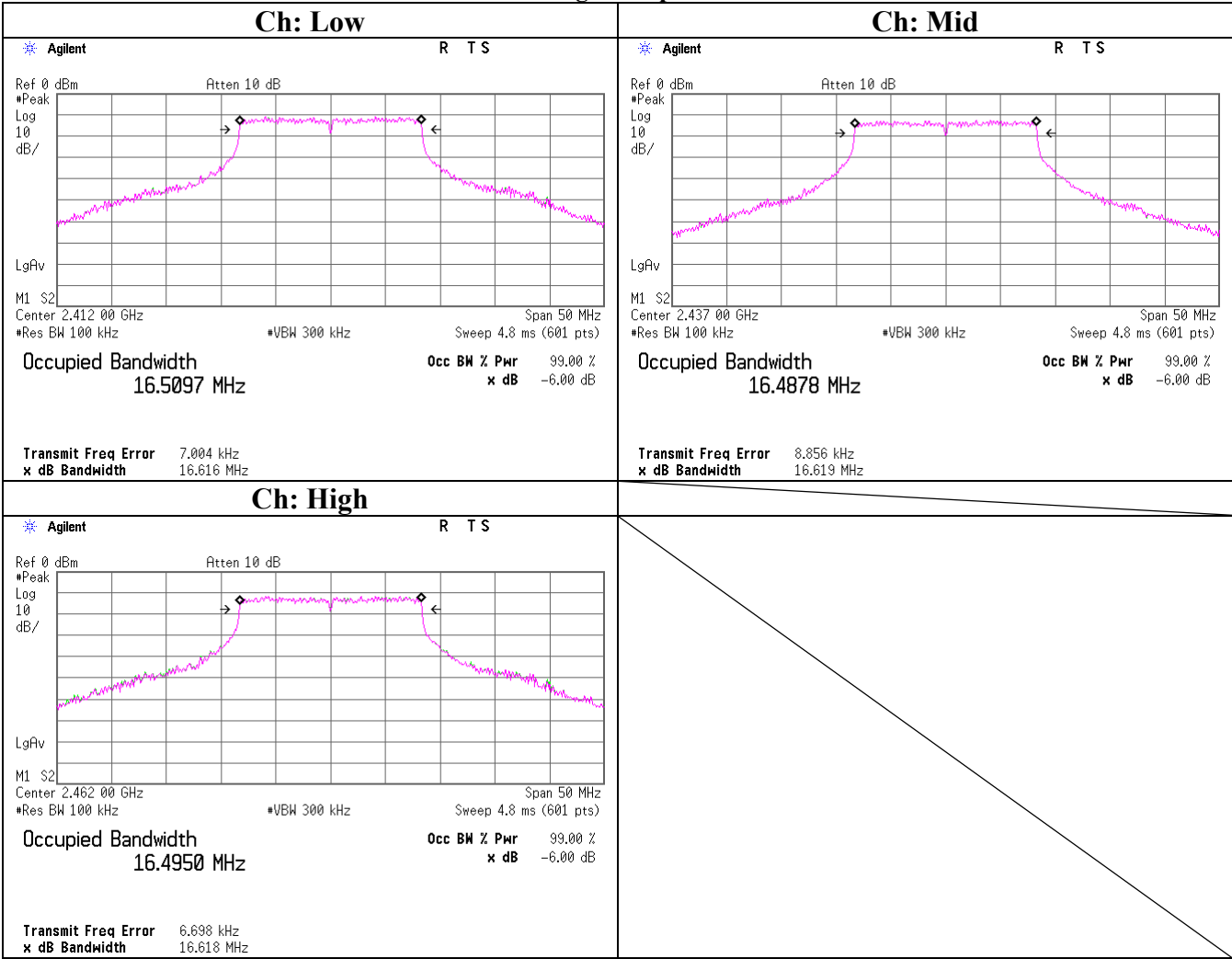
11g

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	16.616	>500
Mid	2437.0	16.619	>500
High	2462.0	16.618	>500

6dB Bandwidth
11b 11Mbps



6dB Bandwidth
11g 24Mbps



Maximum Peak Output Power

UL Japan, Inc.
Head Office EMC Lab. No.6 measurement room

Company : DENSO WAVE INCORPORATED Equipment : BHT-800 MAIN BOARD Model No. : DWWL001 Serial No. : MAC ID(0013E0F39B98) Power : AC120V/60Hz Mode : 11b 11Mbps Tx (Ch L, M, H)	Test Report No. : 29FE0054-HO-02 Regulation : FCC15.247(b)(3)/RSS-210A8.4(4) Test distance : - Date : 04/07/2009 Temperature : 24deg.C. Humidity : 51% Engineer : Hisayoshi Sato
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[IEEE802.11b]

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	
Low	2412.0	5.21	1.67	10.09	16.97	49.77	30.00	1000	13.03
Mid	2437.0	4.89	1.69	10.09	16.67	46.45	30.00	1000	13.33
High	2462.0	5.11	1.69	10.09	16.89	48.87	30.00	1000	13.11

Sample Calculation:
Result = Reading + Cable Loss + Attenuator

(Reference data)

[IEEE802.11b]

Rate	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	
1	2437.0	4.68	1.69	10.09	16.46	44.26	30.00	1000	13.54
2	2437.0	4.58	1.69	10.09	16.36	43.25	30.00	1000	13.64
5.5	2437.0	4.68	1.69	10.09	16.46	44.26	30.00	1000	13.54
11	2437.0	4.89	1.69	10.09	16.67	46.45	30.00	1000	13.33

Sample Calculation:
Result = Reading + Cable Loss + Attenuator

Maximum Peak Output Power

UL Japan, Inc.
Head Office EMC Lab. No.6 measurement room

Company	: DENSO WAVE INCORPORATED	Test Report No.	: 29FE0054-HO-02
Equipment	: BHT-800 MAIN BOARD	Regulation	: FCC15.247(b)(3)/RSS-210A8.4(4)
Model No.	: DWWL001	Test distance	: -
Serial No.	: MAC ID(0013E0F39B98)	Date	: 04/07/2009
Power	: AC120V/60Hz	Temperature	: 24deg.C.
Mode	: 11g 24Mbps Tx (Ch L, M, H)	Humidity	: 51%
		Engineer	: Hisayoshi Sato

[IEEE802.11g]

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	9.88	1.67	10.09	21.64	145.88	30.00	1000	8.36
Mid	2437.0	9.63	1.69	10.09	21.41	138.36	30.00	1000	8.59
High	2462.0	9.80	1.69	10.09	21.58	143.88	30.00	1000	8.42

Sample Calculation:
Result = Reading + Cable Loss + Attenuator

(Reference data)

[IEEE802.11g]

Rate	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
6	2437.0	9.56	1.69	10.09	21.34	136.14	30.00	1000	8.66
9	2437.0	9.58	1.69	10.09	21.36	136.77	30.00	1000	8.64
12	2437.0	9.59	1.69	10.09	21.37	137.09	30.00	1000	8.63
18	2437.0	9.56	1.69	10.09	21.34	136.14	30.00	1000	8.66
24	2437.0	9.63	1.69	10.09	21.41	138.36	30.00	1000	8.59
36	2437.0	9.57	1.69	10.09	21.35	136.46	30.00	1000	8.65
48	2437.0	9.32	1.69	10.09	21.10	128.82	30.00	1000	8.90
54	2437.0	9.54	1.69	10.09	21.32	135.52	30.00	1000	8.68

Sample Calculation:
Result = Reading + Cable Loss + Attenuator

Radiated Spurious Emission (below 1GHz)
11b Tx, Ch: Low

DATA OF RADIATED EMISSION TEST

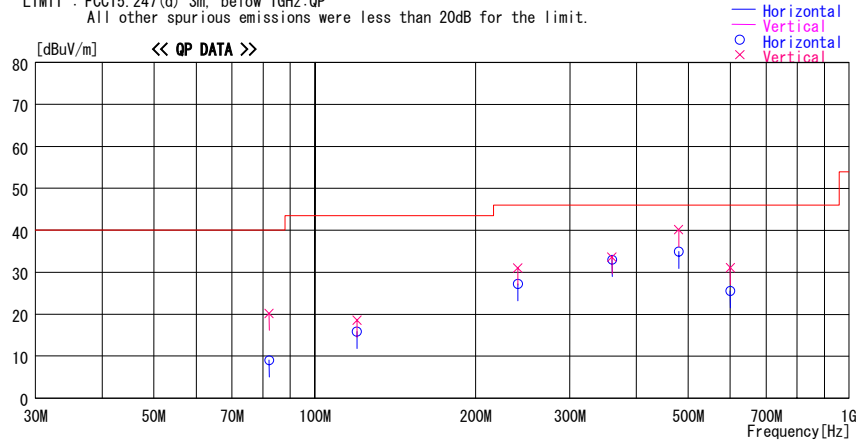
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2009/04/22

Company : DENSO WAVE INCORPORATED
Kind of EUT : BHT-800 MAIN BOARD
Model No. : DWL001
Serial No. : MAC ID (0013E0F39B98)
Report No. : 29FE0054-HO-02
Power : AC120V/60Hz
Temp./Humi. : 22deg. C. / 42%
Engineer : Hisayoshi Sato

Mode / Remarks : 11b_11Mbps_Tx2412MHz_Worst Axis Hor: Cradle Ver: Cradle

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin
[MHz]	[dBuV]		Factor	Gain	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
82.119	33.6	QP	6.9	-20.3	20.2	252	115	Vert.	40.0	19.8
82.119	22.5	QP	6.9	-20.3	9.1	0	115	Hori.	40.0	30.9
120.000	22.7	QP	12.8	-19.7	15.8	32	115	Hori.	43.5	27.7
120.000	25.4	QP	12.8	-19.7	18.5	268	100	Vert.	43.5	25.0
239.992	28.1	QP	17.1	-18.0	27.2	44	147	Hori.	46.0	18.8
239.997	31.9	QP	17.1	-18.0	31.0	12	228	Vert.	46.0	15.0
360.005	35.8	QP	14.9	-17.1	33.6	11	117	Vert.	46.0	12.4
360.025	35.2	QP	14.9	-17.1	33.0	253	113	Hori.	46.0	13.0
480.009	33.9	QP	18.0	-17.0	34.9	114	180	Hori.	46.0	11.1
480.017	39.1	QP	18.0	-17.0	40.1	323	112	Vert.	46.0	5.9
600.050	28.3	QP	19.3	-16.5	31.1	349	100	Vert.	46.0	14.9
600.051	22.7	QP	19.3	-16.5	25.5	2	100	Hori.	46.0	20.5

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.

Radiated Spurious Emission (below 1GHz)
11b Tx, Ch: Mid

DATA OF RADIATED EMISSION TEST

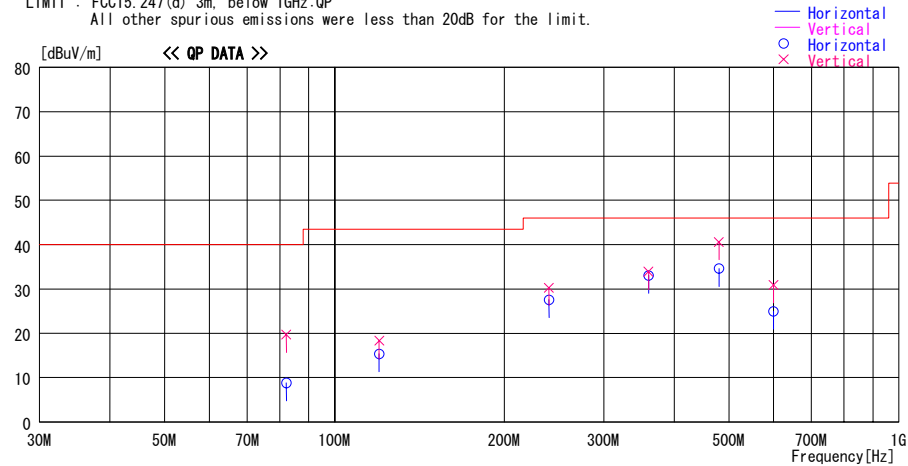
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2009/04/22

Company : DENSO WAVE INCORPORATED
Kind of EUT : BHT-800 MAIN BOARD
Model No. : DWL001
Serial No. : MAC ID (0013E0F39B98)
Report No. : 29FE0054-HO-02
Power : AC120V/60Hz
Temp./Humi. : 22deg. C. / 42%
Engineer : Hisayoshi Sato

Mode / Remarks : 11b_11Mbps_Tx2437MHz_Worst Axis Hor: Cradle Ver: Cradle

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna		Level	Angle	Height	Polar.	Limit	Margin
			Factor	Gain						
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
82.133	33.1	QP	6.9	-20.3	19.7	252	115	Vert.	40.0	20.3
82.124	22.2	QP	6.9	-20.3	8.8	0	115	Hori.	40.0	31.2
120.000	22.3	QP	12.8	-19.7	15.4	32	115	Hori.	43.5	28.1
120.000	25.2	QP	12.8	-19.7	18.3	268	100	Vert.	43.5	25.2
239.965	28.4	QP	17.1	-18.0	27.5	44	147	Hori.	46.0	18.5
239.992	31.2	QP	17.1	-18.0	30.3	12	228	Vert.	46.0	15.7
360.133	36.1	QP	14.9	-17.1	33.9	11	117	Vert.	46.0	12.1
360.120	35.3	QP	14.9	-17.1	33.1	253	113	Hori.	46.0	12.9
480.003	33.6	QP	18.0	-17.0	34.6	114	180	Hori.	46.0	11.4
480.011	39.7	QP	18.0	-17.0	40.7	323	112	Vert.	46.0	5.3
600.032	28.1	QP	19.3	-16.5	30.9	349	100	Vert.	46.0	15.1
600.032	22.2	QP	19.3	-16.5	25.0	2	100	Hori.	46.0	21.0

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.

Radiated Spurious Emission (below 1GHz)
11b Tx, Ch: High

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2009/04/22

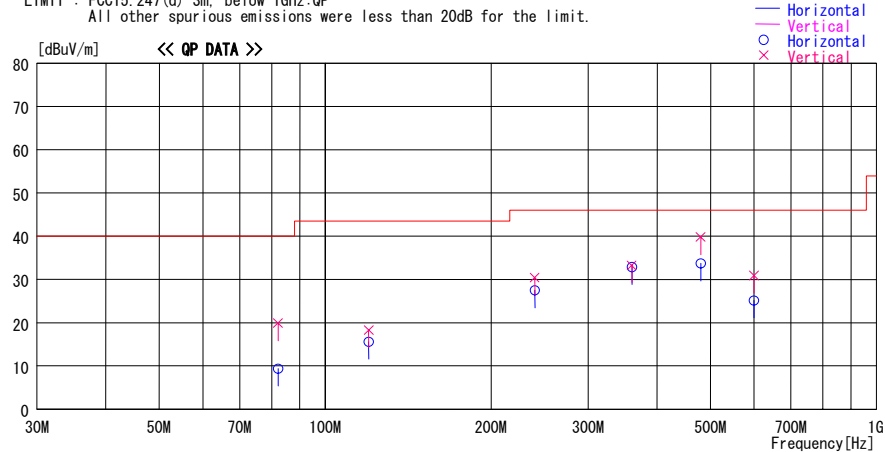
Company : DENSO WAVE INCORPORATED
Kind of EUT : BHT-800 MAIN BOARD
Model No. : DWL001
Serial No. : MAC ID (0013E0F39B98)

Report No. : 29FE0054-HO-02
Power : AC120V/60Hz
Temp./Humi. : 22deg. C. / 42%
Engineer : Hisayoshi Sato

Mode / Remarks : 11b_11Mbps_Tx2462MHz_Worst Axis Hor: Cradle Ver: Cradle

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit	Margin
			Factor [dB/m]	Gain [dB]					[dBuV/m]	[dB]
82.122	33.3	QP	6.9	-20.3	19.9	252	115	Vert.	40.0	20.1
82.111	22.8	QP	6.9	-20.3	9.4	0	115	Hori.	40.0	30.6
120.000	22.5	QP	12.8	-19.7	15.6	32	115	Hori.	43.5	27.9
120.000	25.2	QP	12.8	-19.7	18.3	268	100	Vert.	43.5	25.2
239.954	28.4	QP	17.1	-18.0	27.5	44	147	Hori.	46.0	18.5
239.966	31.3	QP	17.1	-18.0	30.4	12	228	Vert.	46.0	15.6
360.013	35.5	QP	14.9	-17.1	33.3	11	117	Vert.	46.0	12.7
360.043	35.1	QP	14.9	-17.1	32.9	253	113	Hori.	46.0	13.1
480.032	32.7	QP	18.0	-17.0	33.7	114	180	Hori.	46.0	12.3
480.032	38.8	QP	18.0	-17.0	39.8	323	112	Vert.	46.0	6.2
600.032	28.1	QP	19.3	-16.5	30.9	349	100	Vert.	46.0	15.1
600.032	22.3	QP	19.3	-16.5	25.1	2	100	Hori.	46.0	20.9

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.

Radiated Spurious Emission (below 1GHz)
11g Tx, Ch: Low

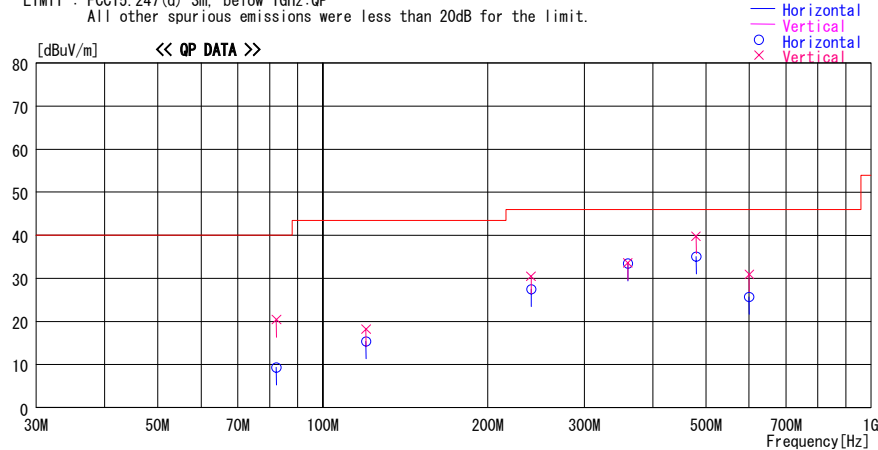
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2009/04/22

Company : DENSO WAVE INCORPORATED
Kind of EUT : BHT-800 MAIN BOARD
Model No. : DWWL001
Serial No. : MAC ID (0013E0F39B98)
Report No. : 29FE0054-HO-02
Power : AC120V/60Hz
Temp./Humi. : 22deg. C. / 42%
Engineer : Hisayoshi Sato

Mode / Remarks : 11g_24Mbps_Tx2412MHz_Worst Axis Hor: Cradle Ver: Cradle

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss& Gain [dB]						
82.322	33.8	QP	6.9	-20.3	20.4	252	115	Vert.	40.0	19.6
82.324	22.7	QP	6.9	-20.3	9.3	0	115	Hori.	40.0	30.7
120.000	22.3	QP	12.8	-19.7	15.4	32	115	Hori.	43.5	28.1
120.000	25.1	QP	12.8	-19.7	18.2	268	100	Vert.	43.5	25.3
239.998	28.4	QP	17.1	-18.0	27.5	44	147	Hori.	46.0	18.5
239.992	31.4	QP	17.1	-18.0	30.5	12	228	Vert.	46.0	15.5
360.005	35.8	QP	14.9	-17.1	33.6	11	117	Vert.	46.0	12.4
360.009	35.7	QP	14.9	-17.1	33.5	253	113	Hori.	46.0	12.5
480.003	34.1	QP	18.0	-17.0	35.1	114	180	Hori.	46.0	10.9
480.007	38.8	QP	18.0	-17.0	39.8	323	112	Vert.	46.0	6.2
600.012	28.1	QP	19.3	-16.5	30.9	349	100	Vert.	46.0	15.1
600.021	22.9	QP	19.3	-16.5	25.7	2	100	Hori.	46.0	20.3

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.

Radiated Spurious Emission (below 1GHz)
11g Tx, Ch: Mid

DATA OF RADIATED EMISSION TEST

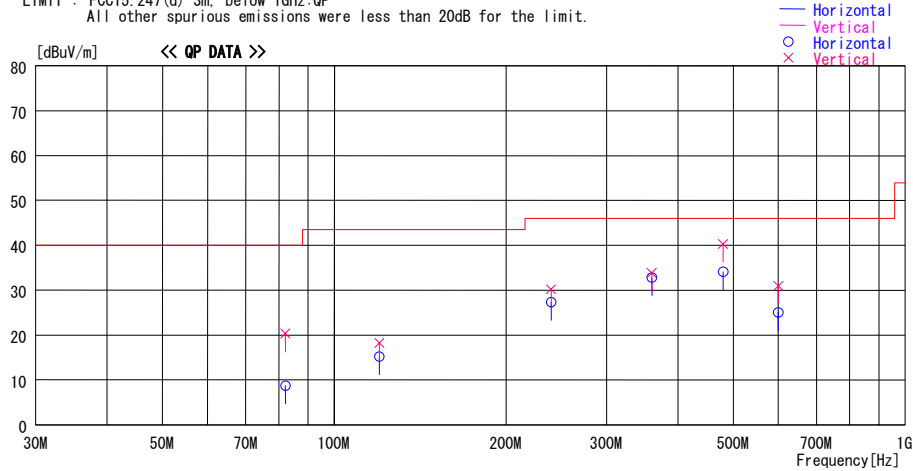
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2009/04/22

Company : DENSO WAVE INCORPORATED
Kind of EUT : BHT-800 MAIN BOARD
Model No. : DWML001
Serial No. : MAC ID (0013E0F39B98)
Report No. : 29FE0054-HO-02
Power : AC120V/60Hz
Temp./Humi. : 22deg. C. / 42%
Engineer : Hisayoshi Sato

Mode / Remarks : 11g_24Mbps_Tx2437MHz_Worst Axis Hor: Cradle Ver: Cradle

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit	Margin
			Factor [dB/m]	Gain [dB]					[dBuV/m]	[dB]
82.122	33.7	QP	6.9	-20.3	20.3	252	115	Vert.	40.0	19.7
82.132	22.1	QP	6.9	-20.3	8.7	0	115	Hori.	40.0	31.3
120.000	22.1	QP	12.8	-19.7	15.2	32	115	Hori.	43.5	28.3
120.000	25.1	QP	12.8	-19.7	18.2	268	100	Vert.	43.5	25.3
240.002	28.2	QP	17.1	-18.0	27.3	44	147	Hori.	46.0	18.7
239.899	31.2	QP	17.0	-18.0	30.2	12	228	Vert.	46.0	15.8
360.012	36.0	QP	14.9	-17.1	33.8	11	117	Vert.	46.0	12.2
360.021	35.0	QP	14.9	-17.1	32.8	253	113	Hori.	46.0	13.2
480.021	33.1	QP	18.0	-17.0	34.1	114	180	Hori.	46.0	11.9
480.011	39.3	QP	18.0	-17.0	40.3	323	112	Vert.	46.0	5.7
600.033	28.1	QP	19.3	-16.5	30.9	349	100	Vert.	46.0	15.1
600.058	22.3	QP	19.3	-16.5	25.1	2	100	Hori.	46.0	20.9

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.

Radiated Spurious Emission (below 1GHz)

11g Tx, Ch: High

DATA OF RADIATED EMISSION TEST

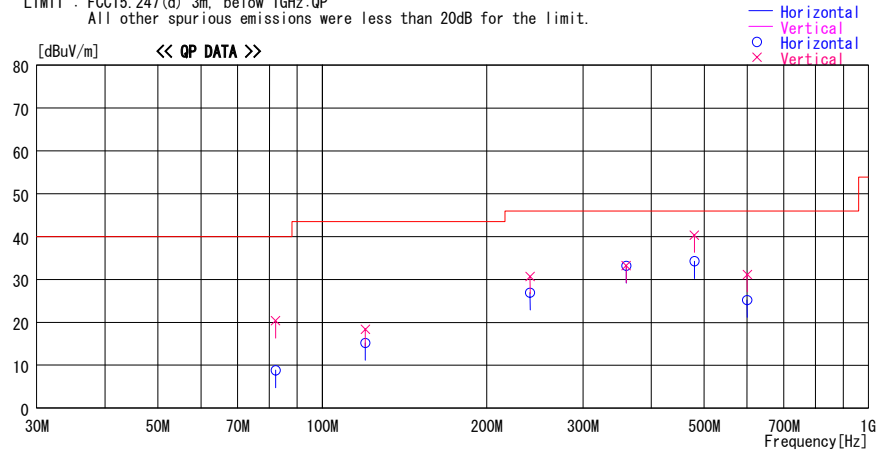
UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2009/04/22

Company : DENSO WAVE INCORPORATED Report No. : 29FE0054-HO-02
Kind of EUT : BHT-800 MAIN BOARD Power : AC120V/60Hz
Model No. : DWL001 Temp./Humi. : 22deg. C. / 42%
Serial No. : MAC ID (0013E0F39B98) Engineer : Hisayoshi Sato

Mode / Remarks : 11g_24Mbps_Tx2462MHz_Worst Axis Hor: Cradle Ver: Cradle

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Gain [dB]						
82.145	33.8	QP	6.9	-20.3	20.4	252	115	Vert.	40.0	19.6
82.150	22.2	QP	6.9	-20.3	8.8	0	115	Hori.	40.0	31.2
120.000	22.1	QP	12.8	-19.7	15.2	32	115	Hori.	43.5	28.3
120.000	25.3	QP	12.8	-19.7	18.4	268	100	Vert.	43.5	25.1
239.985	27.8	QP	17.1	-18.0	26.9	44	147	Hori.	46.0	19.1
240.033	31.6	QP	17.1	-18.0	30.7	12	228	Vert.	46.0	15.3
360.020	35.5	QP	14.9	-17.1	33.3	11	117	Vert.	46.0	12.7
360.043	35.4	QP	14.9	-17.1	33.2	253	113	Hori.	46.0	12.8
480.034	33.3	QP	18.0	-17.0	34.3	114	180	Hori.	46.0	11.7
480.044	39.3	QP	18.0	-17.0	40.3	323	112	Vert.	46.0	5.7
600.023	28.4	QP	19.3	-16.5	31.2	349	100	Vert.	46.0	14.8
600.033	22.4	QP	19.3	-16.5	25.2	2	100	Hori.	46.0	20.8

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.

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

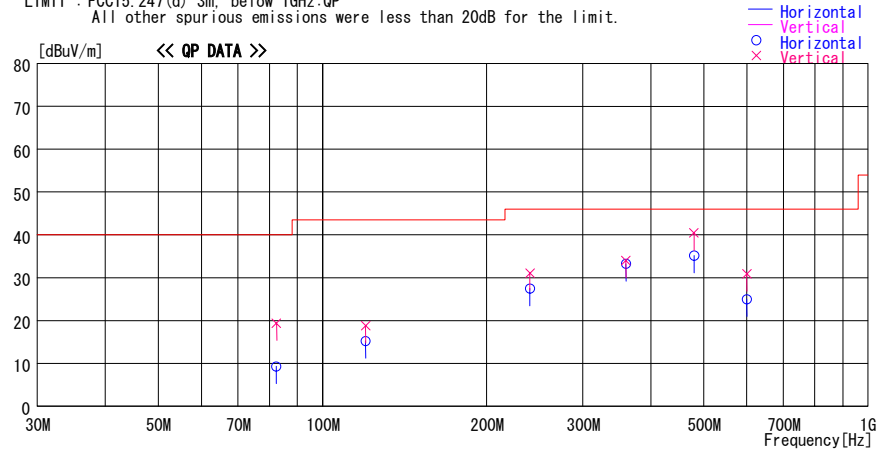
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2009/04/22

Company : DENSO WAVE INCORPORATED
Kind of EUT : BHT-800 MAIN BOARD
Model No. : DWWL001
Serial No. : MAC ID (0013E0F39B98)
Report No. : 29FE0054-HO-02
Power : AC120V/60Hz
Temp./Humi. : 22deg.C. / 42%
Engineer : Hisayoshi Sato

Mode / Remarks: Rx2437MHz_Worst Axis Hor: Cradle Ver: Cradle

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
All other spurious emissions were less than 20dB for the limit.



Frequency	Reading	DET	Antenna	Loss &	Level	Angle	Height	Polar .	Limit	Margin
			Factor	Gain						
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
82.355	32.8	QP	6.9	-20.3	19.4	252	115	Vert.	40.0	20.6
82.332	22.7	QP	6.9	-20.3	9.3	0	115	Hor.	40.0	30.7
120.000	22.1	QP	12.8	-19.7	15.2	32	115	Hor.	43.5	28.3
120.000	25.7	QP	12.8	-19.7	18.8	268	100	Vert.	43.5	24.7
240.040	28.4	QP	17.1	-18.0	27.5	44	147	Hor.	46.0	18.5
240.032	32.0	QP	17.1	-18.0	31.1	12	228	Vert.	46.0	14.9
360.012	36.2	QP	14.9	-17.1	34.0	11	117	Vert.	46.0	12.0
360.011	35.4	QP	14.9	-17.1	33.2	253	113	Hor.	46.0	12.8
480.034	34.2	QP	18.0	-17.0	35.2	114	180	Hor.	46.0	10.8
480.022	39.5	QP	18.0	-17.0	40.5	323	112	Vert.	46.0	5.5
600.021	28.1	QP	19.3	-16.5	30.9	349	100	Vert.	46.0	15.1
600.032	22.2	QP	19.3	-16.5	25.0	2	100	Hor.	46.0	21.0

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.

Radiated Spurious Emission (above 1GHz)

11b, Tx, Ch: Low

Company DENSO WAVE INCORPORATED
Equipment BHT-800 MAIN BOARD
Model DWWL001
S/N MAC ID (0013E0F39B98)
Power AC 120V / 60Hz
Mode 11b, 11Mbps, Tx 2412MHz
Position H: Cradle, V: Y-axis

UL Japan, Inc.
Head Office EMC Lab. No.1 Semi Anechoic Chamber
Regulation FCC15.247(d) / RSS-210 A8.5
Test Distance 3m (1G-10GHz) / 1m (above 10GHz)
Date April 22, 2009 April 23, 2009
Temperature 22 deg.C. 21 deg.C.
Humidity 33 % 38 %
Engineer Hisayoshi Sato Hisayoshi Sato
(1G-10GHz) (above 10GHz)

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	59.0	59.7	22.9	39.9	3.9	0.0	45.9	46.6	73.9	28.0	27.3
2	2400.0*	70.9	69.8	31.0	39.9	5.5	0.0	67.5	66.4	-	-	-
3	4824.0	43.8	44.1	35.3	41.2	8.0	1.0	46.9	47.2	73.9	27.0	26.7
4	7236.0	44.0	44.2	37.7	40.4	9.9	0.5	51.6	51.8	73.9	22.3	22.1
5	9648.0	42.1	43.0	36.3	39.5	11.4	0.2	50.4	51.3	73.9	23.5	22.6
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	-	-	-	-	-	-	-	-	73.9	-	-
7	14772.0	-	-	-	-	-	-	-	-	73.9	-	-
8	16884.0	-	-	-	-	-	-	-	-	73.9	-	-
9	19296.0	44.0	43.9	41.4	39.9	18.9	2.3	57.2	57.1	73.9	16.7	16.8
10	21708.0	-	-	-	-	-	-	-	-	73.9	-	-
11	24120.0	43.6	44.2	41.1	33.7	13.5	0.6	55.5	56.1	73.9	18.4	17.8

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	48.5	47.5	27.1	35.9	2.3	0.0	42.0	41.0	53.9	12.0	13.0
2	2400.0*	62.9	60.6	27.2	35.9	2.3	0.0	56.4	54.1	-	-	-
3	4824.0	31.0	31.0	31.3	35.7	3.6	0.9	31.1	31.1	53.9	22.8	22.8
4	7236.0	31.2	31.2	35.6	36.0	4.3	0.7	35.9	35.9	53.9	18.0	18.0
5	9648.0	31.0	31.5	38.4	36.5	5.6	0.8	39.2	39.7	53.9	14.7	14.2
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	-	-	-	-	-	-	-	-	53.9	-	-
7	14772.0	-	-	-	-	-	-	-	-	53.9	-	-
8	16884.0	-	-	-	-	-	-	-	-	53.9	-	-
9	19296.0	34.0	34.2	40.4	34.3	7.3	0.0	37.8	38.0	53.9	16.1	15.9
10	21708.0	-	-	-	-	-	-	-	-	53.9	-	-
11	24120.0	33.4	33.5	40.4	35.1	8.2	0.0	37.4	37.5	53.9	16.6	16.5

* Reference data

20dBc(Fundamental 2412MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2412.0	110.9	110.2	27.2	35.9	2.3	0.0	104.5	103.8	-	-	-
2	2400.0	62.2	60.3	27.2	35.9	2.3	0.0	55.7	53.8	Funda-20dB	28.8	30.0

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen except for the eighth harmonic.

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

*Hi-Pass Filter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission (above 1GHz)

11b, Tx, Ch: Mid

Company DENSO WAVE INCORPORATED
Equipment BHT-800 MAIN BOARD
Model DWWL001
S/N MAC ID (0013E0F39B98)
Power AC 120V / 60Hz
Mode 11b, 11Mbps(Worst), Tx 2437MHz
Position H: Cradle, V: Y-axis

UL Japan, Inc.
Head Office EMC Lab. No.1 Semi Anechoic Chamber
Regulation FCC15.247(d) / RSS-210 A8.5
Test Distance 3m (1G-10GHz) / 1m (above 10GHz)
Date April 23, 2009
Temperature 21 deg.C.
Humidity 38 %
Engineer Hisayoshi Sato

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.0	43.4	43.4	31.3	35.7	3.6	0.9	43.5	43.5	73.9	30.4	30.4
2	7311.0	43.9	43.2	35.8	36.0	4.3	0.7	48.7	48.0	73.9	25.2	25.9
3	9748.0	43.7	43.8	38.5	36.6	5.6	0.8	52.0	52.1	73.9	21.9	21.8
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	-	-	-	-	-	-	-	-	73.9	-	-
5	14622.0	-	-	-	-	-	-	-	-	73.9	-	-
6	17059.0	-	-	-	-	-	-	-	-	73.9	-	-
7	19496.0	43.9	43.2	40.4	34.8	7.3	0.0	47.3	46.6	73.9	26.6	27.3
8	21933.0	-	-	-	-	-	-	-	-	73.9	-	-
9	24370.0	44.2	44.1	41.1	33.7	13.5	0.0	55.6	55.5	73.9	18.4	18.5

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.0	30.0	30.0	31.3	35.7	3.6	0.9	30.1	30.1	53.9	23.8	23.8
2	7311.0	30.3	30.3	35.8	36.0	4.3	0.7	35.1	35.1	53.9	18.8	18.8
3	9748.0	30.8	30.8	38.5	36.6	5.6	0.8	39.1	39.1	53.9	14.8	14.8
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	-	-	-	-	-	-	-	-	53.9	-	-
5	14622.0	-	-	-	-	-	-	-	-	53.9	-	-
6	17059.0	-	-	-	-	-	-	-	-	53.9	-	-
7	19496.0	34.1	34.4	40.4	34.8	7.3	0.0	37.5	37.8	53.9	16.4	16.1
8	21933.0	-	-	-	-	-	-	-	-	53.9	-	-
9	24370.0	33.3	33.2	41.1	33.7	13.5	0.0	44.7	44.6	53.9	9.2	9.3

* Reference data

20dBc(Fundamental 2437MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2437.0	108.9	108.5	27.2	35.9	2.3	0.0	102.5	102.1	-	-	-

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen except for the eighth harmonic.

*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.

Radiated Spurious Emission 11b, Tx, Ch: High

Company DENSO WAVE INCORPORATED
Equipment BHT-800 MAIN BOARD
Model DWWL001
S/N MAC ID (0013E0F39B98)
Power AC 120V / 60Hz
Mode 11b, 11Mbps, Tx 2462MHz
Position H: Cradle, V: Y-axis

UL Japan, Inc.
Head Office EMC Lab. No.1 Semi Anechoic Chamber
Regulation FCC15.247(d) / RSS-210 A8.5
Test Distance 3m (1G-10GHz) / 1m (above 10GHz)
Date April 23, 2009
Temperature 21 deg.C.
Humidity 38 %
Engineer Hisayoshi Sato

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	58.3	59.3	27.3	35.9	2.3	0.0	52.1	53.1	73.9	21.8	20.8
2	4924.0	43.2	43.8	31.4	35.7	3.6	0.9	43.4	44.0	73.9	30.5	29.9
3	7386.0	43.2	44.3	35.9	36.0	4.4	0.7	48.2	49.3	73.9	25.7	24.6
4	9848.0	44.0	44.0	38.7	36.7	5.7	0.8	52.5	52.5	73.9	21.4	21.4
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	-	-	-	-	-	-	-	-	73.9	-	-
6	14772.0	-	-	-	-	-	-	-	-	73.9	-	-
7	17234.0	-	-	-	-	-	-	-	-	73.9	-	-
8	19696.0	47.6	46.3	40.4	35.1	7.3	0.0	50.7	49.4	73.9	23.2	24.5
9	22158.0	-	-	-	-	-	-	-	-	73.9	-	-
10	24620.0	44.5	45.3	40.4	35.1	8.3	0.0	48.6	49.4	73.9	25.3	24.5

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN		
		HOR	VER					HOR	VER		HOR	VER	
		[dBuV]						[dBuV/m]			[dB]		
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss													
1	2483.5	45.1	45.9	27.3	35.9	2.3	0.0	38.9	39.7	53.9	15.0	14.2	
2	4924.0	30.0	30.0	31.4	35.7	3.6	0.9	30.2	30.2	53.9	23.7	23.7	
3	7386.0	30.3	30.3	35.9	36.0	4.4	0.7	35.3	35.3	53.9	18.6	18.6	
4	9848.0	29.9	30.6	38.7	36.7	5.7	0.8	38.4	39.1	53.9	15.5	14.8	
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac													
5	12310.0	-	-	-	-	-	-	-	-	53.9	-	-	
6	14772.0	-	-	-	-	-	-	-	-	53.9	-	-	
7	17234.0	-	-	-	-	-	-	-	-	53.9	-	-	
8	19696.0	38.0	35.1	40.4	35.1	7.3	0.0	41.1	38.2	53.9	12.8	15.7	
9	22158.0	-	-	-	-	-	-	-	-	53.9	-	-	
10	24620.0	33.4	33.9	40.4	35.1	8.3	0.0	37.5	38.0	53.9	16.4	15.9	

* Reference data

20dBc(Fundamental 2462MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]		[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2462.0	108.2	108.0	27.3	35.9	2.3	0.0	101.9	101.7	-	-	-

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen except for the eighth harmonic.

*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.

Radiated Spurious Emission 11g, Tx, Ch: Low

Company DENSO WAVE INCORPORATED
Equipment BHT-800 MAIN BOARD
Model DWWL001
S/N MAC ID (0013E0F39B98)
Power AC 120V / 60Hz
Mode 11g, 24Mbps, Tx 2412MHz
Position H: Cradle, V: Y-axis

UL Japan, Inc.
Head Office EMC Lab. No.1 Semi Anechoic Chamber
Regulation FCC15.247(d) / RSS-210 A8.5
Test Distance 3m (1G-10GHz) / 1m (above 10GHz)
Date April 23, 2009
Temperature 21 deg.C.
Humidity 38 %
Engineer Hisayoshi Sato

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	72.9	73.5	27.1	35.9	2.3	0.0	66.4	67.0	73.9	7.6	7.0
2	2400.0*	89.5	90.2	27.2	35.9	2.3	0.0	83.0	83.7	-	-	-
3	4824.0	43.8	43.4	31.3	35.7	3.6	0.9	43.9	43.5	73.9	30.0	30.4
4	7236.0	44.0	43.9	35.6	36.0	4.3	0.7	48.7	48.6	73.9	25.2	25.3
5	9648.0	43.5	43.7	38.4	36.5	5.6	0.8	51.7	51.9	73.9	22.2	22.0
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	-	-	-	-	-	-	-	-	73.9	-	-
7	14772.0	-	-	-	-	-	-	-	-	73.9	-	-
8	16884.0	-	-	-	-	-	-	-	-	73.9	-	-
9	19296.0	45.2	44.7	40.4	34.3	7.3	0.0	49.0	48.5	73.9	24.9	25.4
10	21708.0	-	-	-	-	-	-	-	-	73.9	-	-
11	24120.0	43.9	45.7	40.4	35.1	8.2	0.0	47.9	49.7	73.9	26.1	24.3

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]	[dB]		[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	56.1	56.8	27.1	35.9	2.3	0.0	49.6	50.3	53.9	4.3	3.6
2	2400.0*	71.4	72.6	27.2	35.9	2.3	0.0	64.9	66.1	-	-	-
3	4824.0	30.4	30.4	31.3	35.7	3.6	0.9	30.5	30.5	53.9	23.4	23.4
4	7236.0	30.7	30.7	35.6	36.0	4.3	0.7	35.4	35.4	53.9	18.5	18.5
5	9648.0	30.9	30.7	38.4	36.5	5.6	0.8	39.1	38.9	53.9	14.8	15.0
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	-	-	-	-	-	-	-	-	53.9	-	-
7	14772.0	-	-	-	-	-	-	-	-	53.9	-	-
8	16884.0	-	-	-	-	-	-	-	-	53.9	-	-
9	19296.0	35.2	34.2	40.4	34.3	7.3	0.0	39.0	38.0	53.9	14.9	15.9
10	21708.0	-	-	-	-	-	-	-	-	53.9	-	-
11	24120.0	33.8	33.7	40.4	35.1	8.2	0.0	37.8	37.7	53.9	16.2	16.3

* Reference data

20dBc(Fundamental 2412MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2412.0	106.5	104.7	27.2	35.9	2.3	0.0	100.1	98.3	-	-	-
2	2400.0	73.3	74.4	27.2	35.9	2.3	0.0	66.8	67.9	Funda-20dB	13.3	10.4

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen except for the eighth harmonic.

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

*Hi-Pass Filter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission 11g, Tx, Ch: Mid

Company DENSO WAVE INCORPORATED
Equipment BHT-800 MAIN BOARD
Model DWWL001
S/N MAC ID (0013E0F39B98)
Power AC 120V / 60Hz
Mode 11g, 24Mbps(Worst), Tx 2437MHz
Position H: Cradle, V: Y-axis

UL Japan, Inc.
Head Office EMC Lab. No.1 Semi Anechoic Chamber
Regulation FCC15.247(d) / RSS-210 A8.5
Test Distance 3m (1G-10GHz) / 1m (above 10GHz)
Date April 23, 2009
Temperature 21 deg.C.
Humidity 38 %
Engineer Hisayoshi Sato

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.0	43.2	43.5	31.3	35.7	3.6	0.9	43.4	43.7	73.9	30.6	30.3
2	7311.0	43.6	43.9	35.8	36.0	4.3	0.7	48.4	48.7	73.9	25.5	25.2
3	9748.0	44.0	44.2	38.5	36.6	5.6	0.8	52.3	52.5	73.9	21.6	21.4
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	-	-	-	-	-	-	-	-	73.9	-	-
5	14622.0	-	-	-	-	-	-	-	-	73.9	-	-
6	17059.0	-	-	-	-	-	-	-	-	73.9	-	-
7	19496.0	45.5	45.5	40.4	34.8	7.3	0.0	48.9	48.9	73.9	25.0	25.0
8	21933.0	-	-	-	-	-	-	-	-	73.9	-	-
9	24370.0	44.5	44.3	40.4	35.1	8.2	0.0	48.5	48.3	73.9	25.4	25.6

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.0	30.0	31.5	31.3	35.7	3.6	0.9	30.2	31.7	53.9	23.8	22.3
2	7311.0	30.2	30.3	35.8	36.0	4.3	0.7	35.0	35.1	53.9	18.9	18.8
3	9748.0	30.7	30.9	38.5	36.6	5.6	0.8	39.0	39.2	53.9	14.9	14.7
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	-	-	-	-	-	-	-	-	53.9	-	-
5	14622.0	-	-	-	-	-	-	-	-	53.9	-	-
6	17059.0	-	-	-	-	-	-	-	-	53.9	-	-
7	19496.0	35.1	33.0	40.4	34.8	7.3	0.0	38.5	36.4	53.9	15.4	17.5
8	21933.0	-	-	-	-	-	-	-	-	53.9	-	-
9	24370.0	35.8	35.8	40.4	35.1	8.2	0.0	39.8	39.8	53.9	14.1	14.1

20dBc(Fundamental 2437MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ	S/A READING		ANT Factor	AMP GAIN	CABLE LOSS	Hi-Pass Filter	RESULT		Limit 20dBc	MARGIN	
		HOR	VER					HOR	VER		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												
0	2437.0	103.3	103.4	27.2	35.9	2.3	0.0	96.9	97.0	-	-	-

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen except for the eighth harmonic.

*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.

Radiated Spurious Emission 11g, Tx, Ch: High

Company DENSO WAVE INCORPORATED
Equipment BHT-800 MAIN BOARD
Model DWWL001
S/N MAC ID (0013E0F39B98)
Power AC 120V / 60Hz
Mode 11g, 24Mbps(Worst), Tx 2462MHz
Position H: Cradle, V: Y-axis

UL Japan, Inc.
Head Office EMC Lab. No.1 Semi Anechoic Chamber
Regulation FCC15.247(d) / RSS-210 A8.5
Test Distance 3m (1G-10GHz) / 1m (above 10GHz)
Date April 23, 2009
Temperature 21 deg.C.
Humidity 38 %
Engineer Hisayoshi Sato

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	71.1	70.6	27.3	35.9	2.3	0.0	64.9	64.4	73.9	9.0	9.5
2	4924.0	39.7	39.9	31.4	35.7	3.6	0.9	39.9	40.1	73.9	34.0	33.8
3	7386.0	42.1	42.2	35.9	36.0	4.4	0.7	47.1	47.2	73.9	26.8	26.7
4	9848.0	39.2	39.5	38.7	36.7	5.7	0.8	47.7	48.0	73.9	26.2	25.9
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	-	-	-	-	-	-	-	-	73.9	-	-
6	14772.0	-	-	-	-	-	-	-	-	73.9	-	-
7	17234.0	-	-	-	-	-	-	-	-	73.9	-	-
8	19696.0	45.1	45.3	40.4	35.1	7.3	0.0	48.2	48.4	73.9	25.7	25.5
9	22158.0	-	-	-	-	-	-	-	-	73.9	-	-
10	24620.0	44.9	45.0	40.4	35.1	8.3	0.0	49.0	49.1	73.9	24.9	24.8

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	52.8	53.0	27.3	35.9	2.3	0.0	46.6	46.8	53.9	7.3	7.1
2	4924.0	29.2	29.3	31.4	35.7	3.6	0.9	29.4	29.5	53.9	24.5	24.4
3	7386.0	29.7	29.8	35.9	36.0	4.4	0.7	34.7	34.8	53.9	19.2	19.1
4	9848.0	29.2	29.8	38.7	36.7	5.7	0.8	37.7	38.3	53.9	16.2	15.6
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	-	-	-	-	-	-	-	-	53.9	-	-
6	14772.0	-	-	-	-	-	-	-	-	53.9	-	-
7	17234.0	-	-	-	-	-	-	-	-	53.9	-	-
8	19696.0	34.8	33.1	40.4	35.1	7.3	0.0	37.9	36.2	53.9	16.0	17.7
9	22158.0	-	-	-	-	-	-	-	-	53.9	-	-
10	24620.0	33.8	33.8	40.4	35.1	8.3	0.0	37.9	37.9	53.9	16.0	16.0

20dBc(Fundamental 2462MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ	S/A READING		ANT Factor	AMP GAIN	CABLE LOSS	Hi-Pass Filter	RESULT		Limit 20dBc	MARGIN	
		HOR	VER					HOR	VER		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												
0	2462.0	103.5	102.7	27.3	35.9	2.3	0.0	97.2	96.4	-	-	-

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen except for the eighth harmonic.

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

*Hi-Pass Filter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission Rx, 11b/g, Ch: Mid

Company DENSO WAVE INCORPORATED
Equipment BHT-800 MAIN BOARD
Model DWWL001
S/N MAC ID (0013E0F39B98)
Power AC 120V / 60Hz
Mode 11b/g, Rx 2462MHz
Position H: Cradle, V: Y-axis

UL Japan, Inc.
Head Office EMC Lab. No.1 Semi Anechoic Chamber
Regulation FCC15.247(d) / RSS-210 A8.5
Test Distance 3m
Date April 23, 2009
Temperature 21 deg.C.
Humidity 38 %
Engineer Hisayoshi Sato

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2437.0	44.8	44.9	27.2	35.9	2.3	0.0	38.4	38.5	73.9	35.5	35.4
2	4874.0	42.2	43.2	31.3	35.7	3.3	0.0	41.1	42.1	73.9	32.8	31.8
3	7311.0	43.6	43.1	35.8	36.0	3.9	0.0	47.3	46.8	73.9	26.7	27.2

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2437.0	33.2	33.2	27.2	35.9	2.3	0.0	26.8	26.8	53.9	27.1	27.1
2	4874.0	31.6	30.5	31.3	35.7	3.3	0.0	30.5	29.4	53.9	23.4	24.5
3	7311.0	30.1	30.5	35.8	36.0	3.9	0.0	33.8	34.2	53.9	20.2	19.8

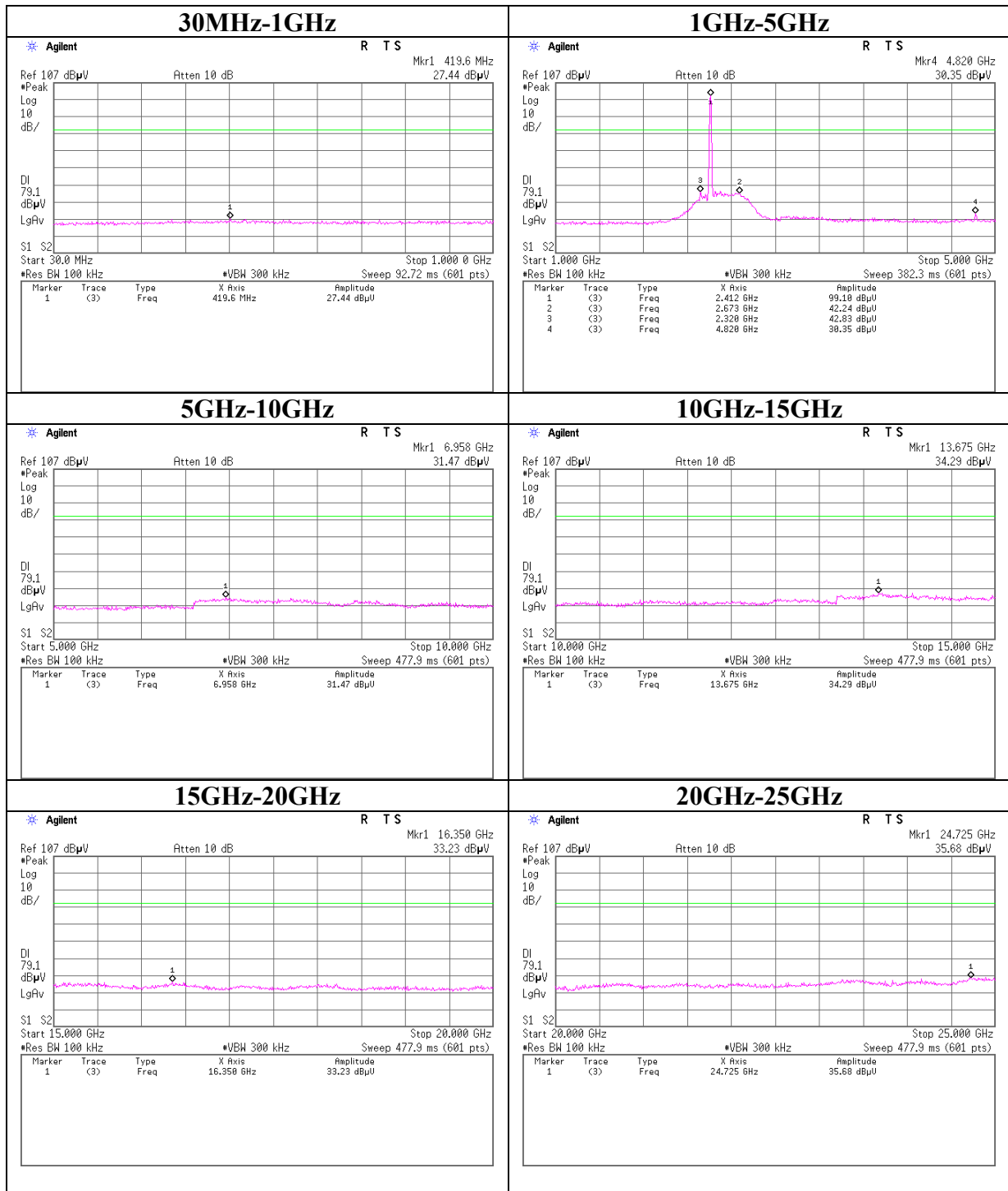
*Except for the above table : All other spurious emissions were less than 20dB for the limit.

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

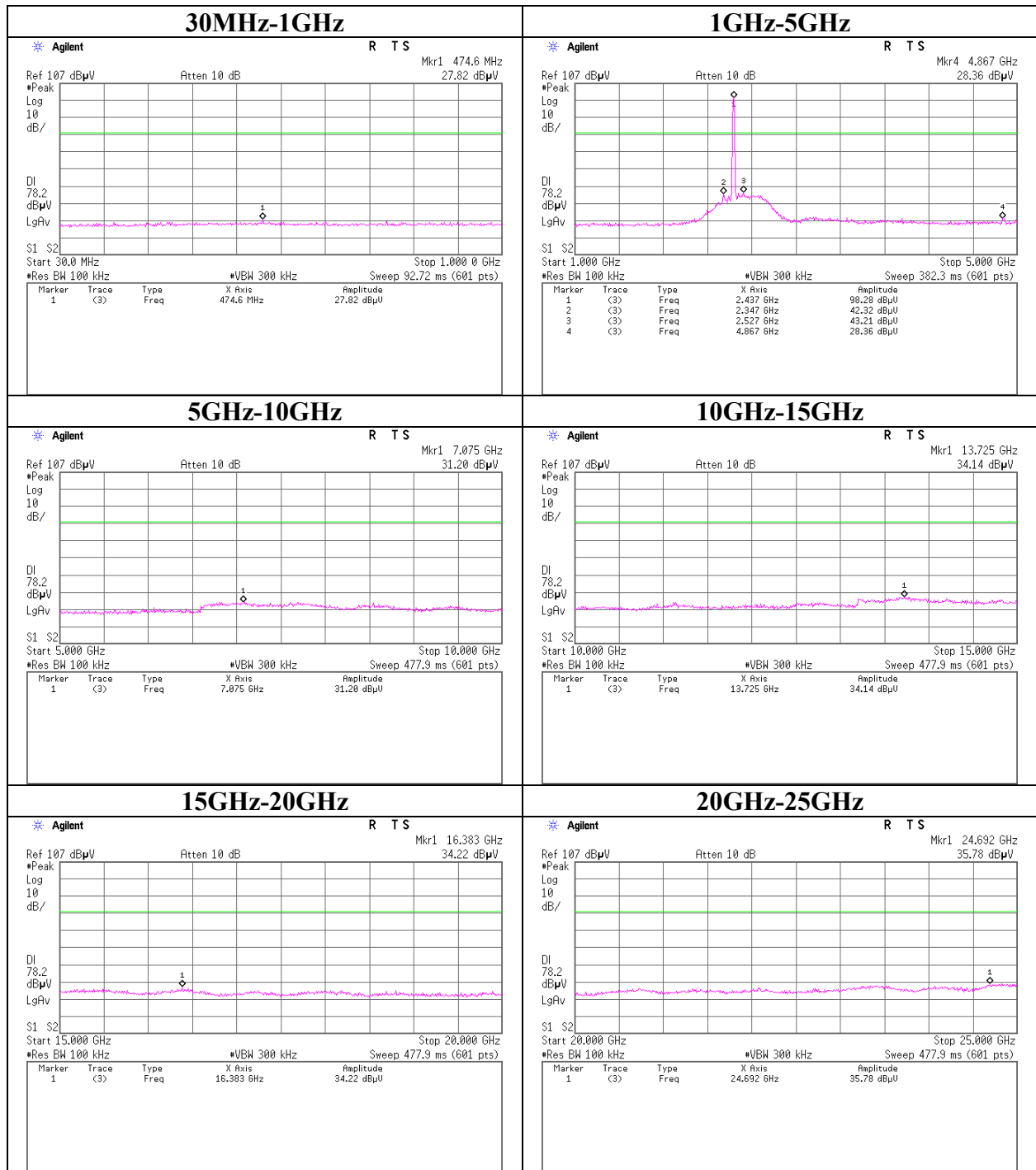
*Hi-Pass Filter was not used for factor 0.0dB of the above table.

Conducted Spurious Emission

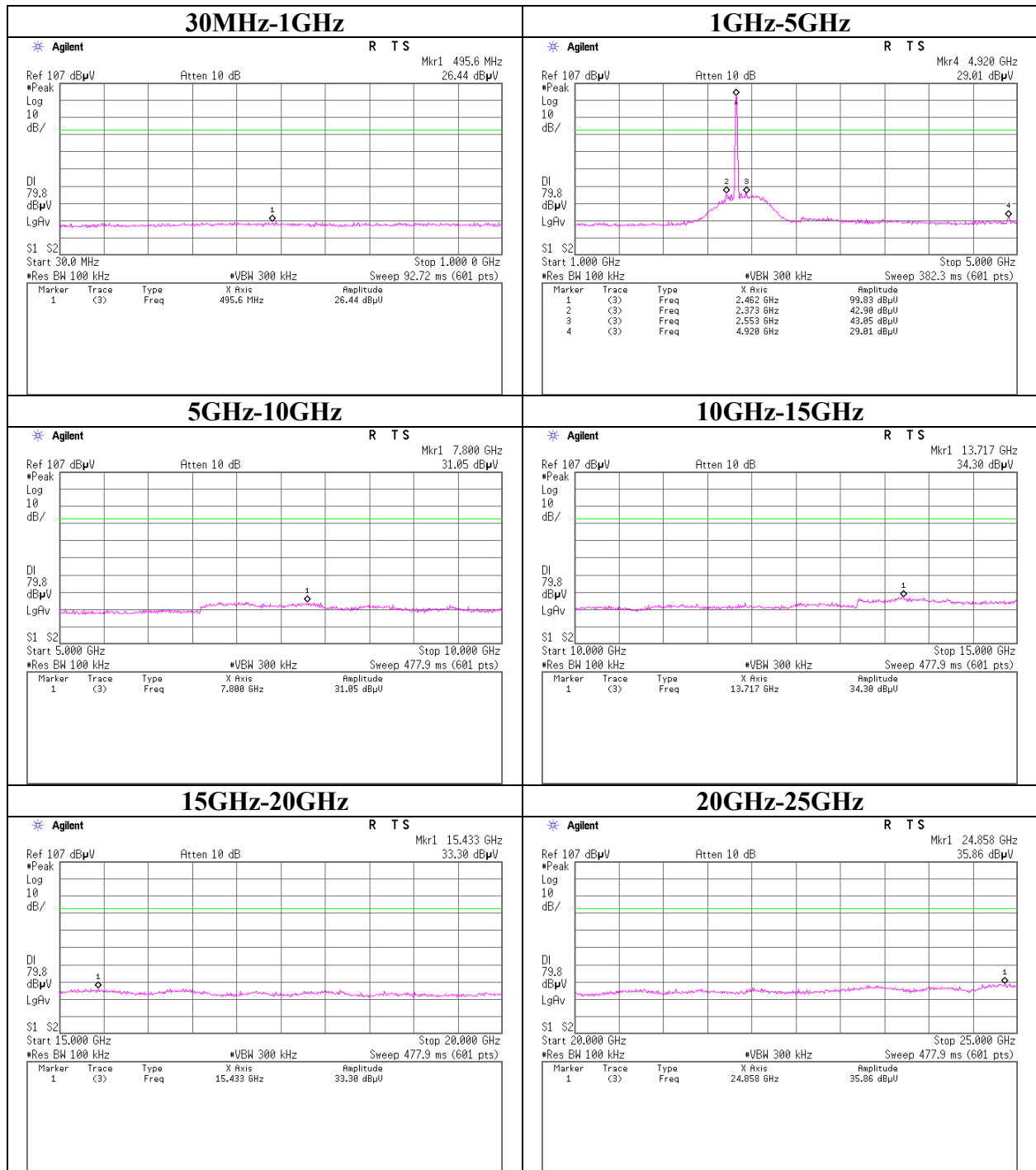
11b Tx, Ch: Low



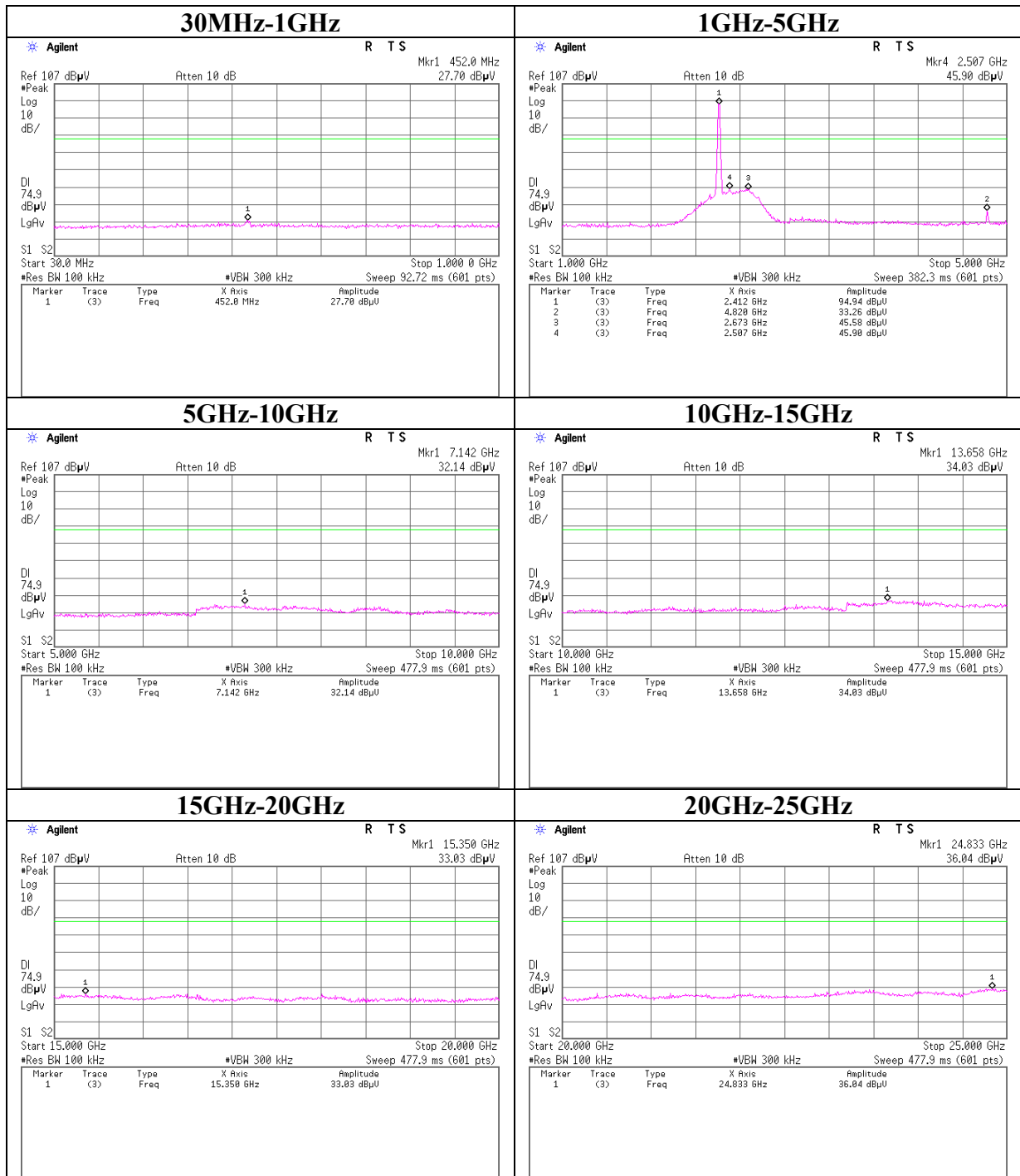
Conducted Spurious Emission
11b Tx, Ch: Mid



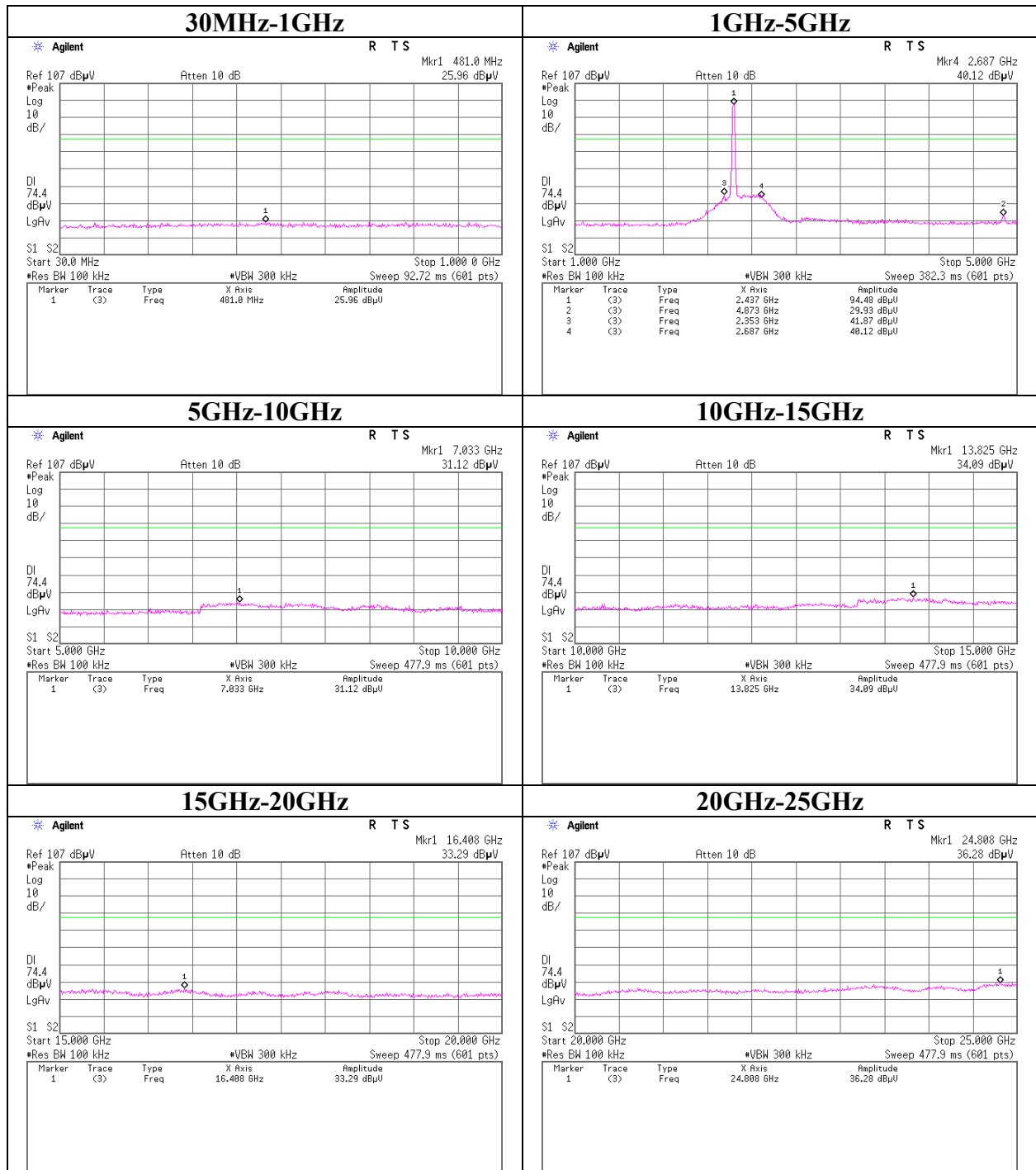
Conducted Spurious Emission
11b Tx, Ch: High



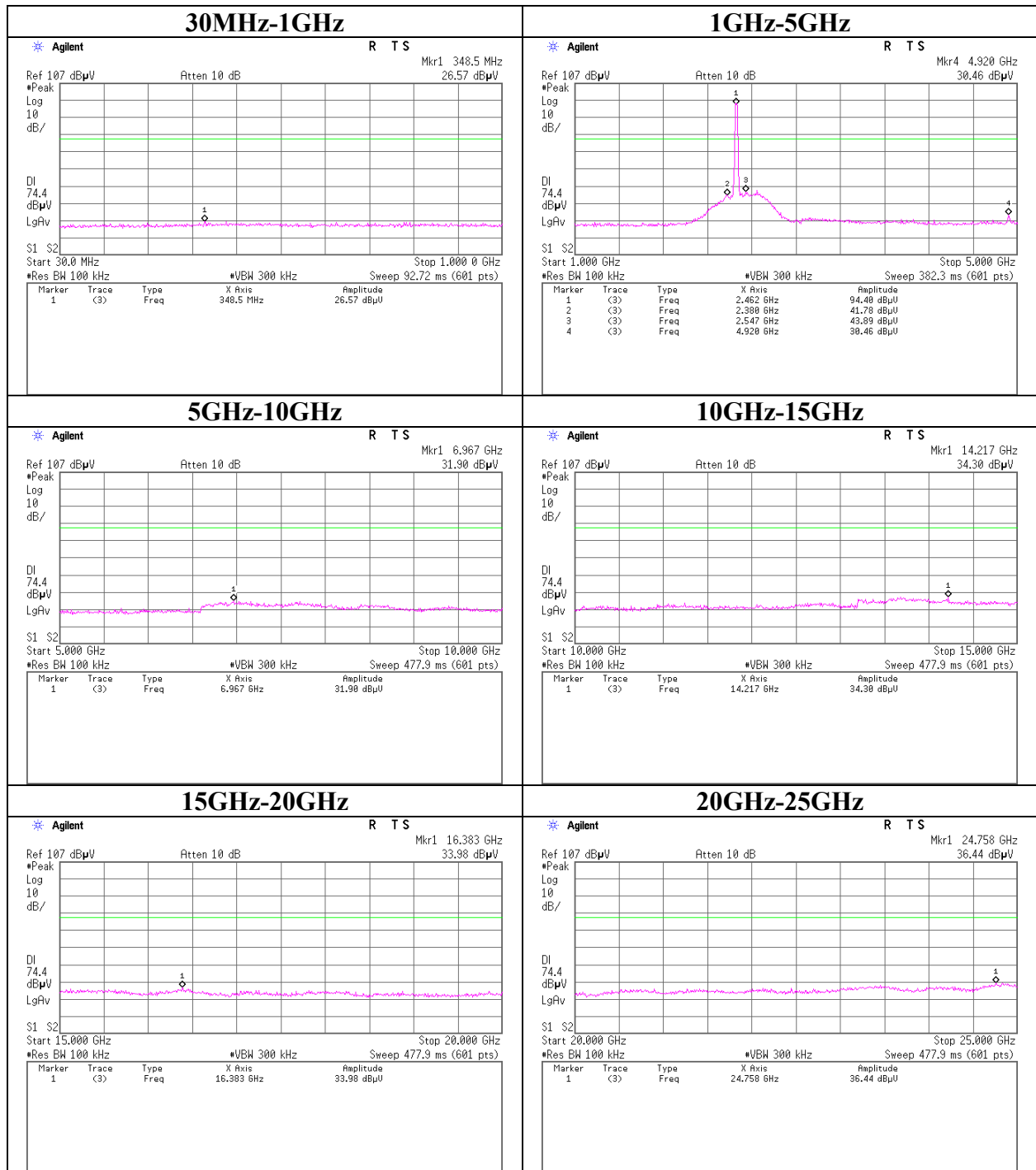
Conducted Spurious Emission
11g Tx, Ch: Low



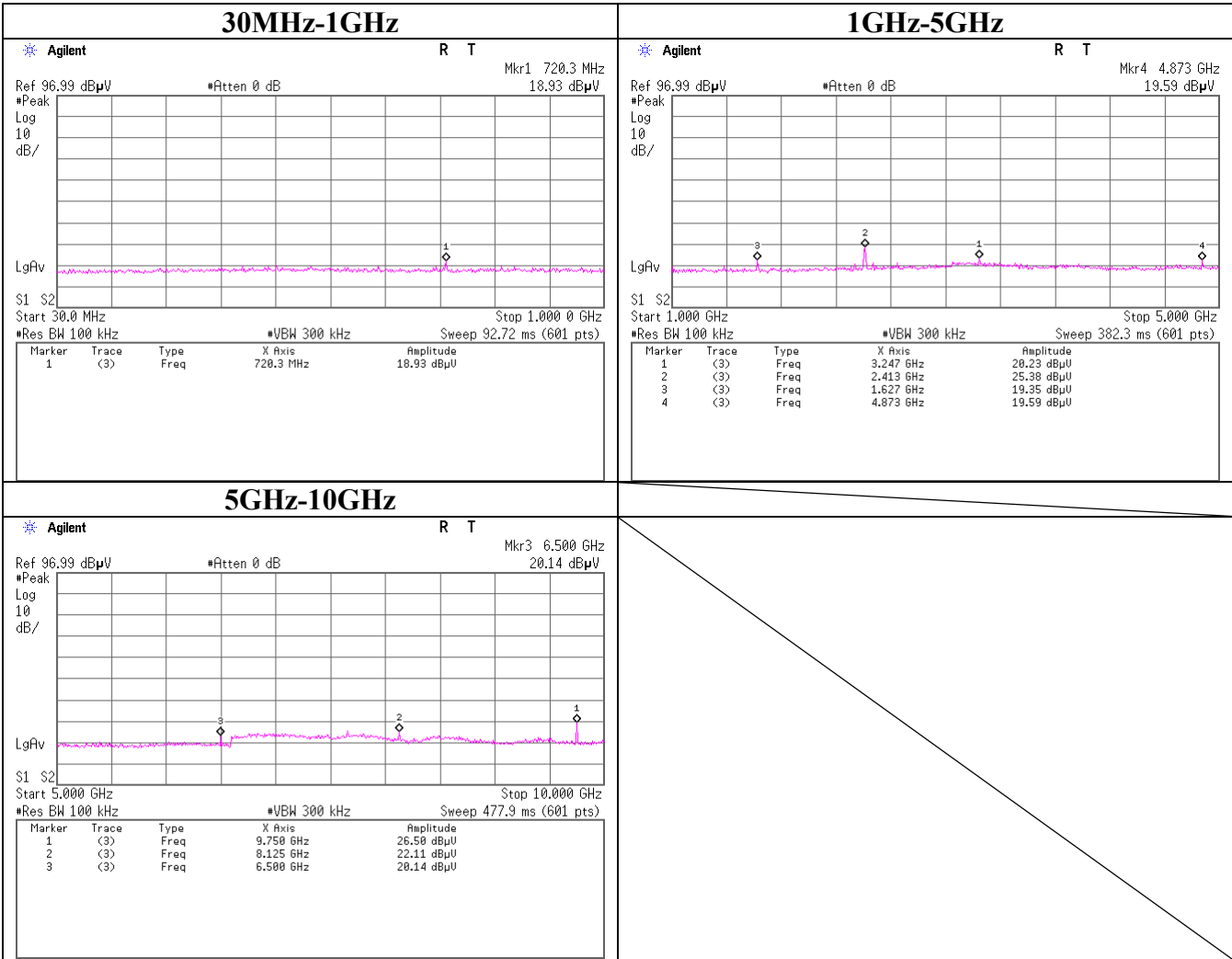
Conducted Spurious Emission
11g Tx, Ch: Mid



Conducted Spurious Emission
11g Tx, Ch: High

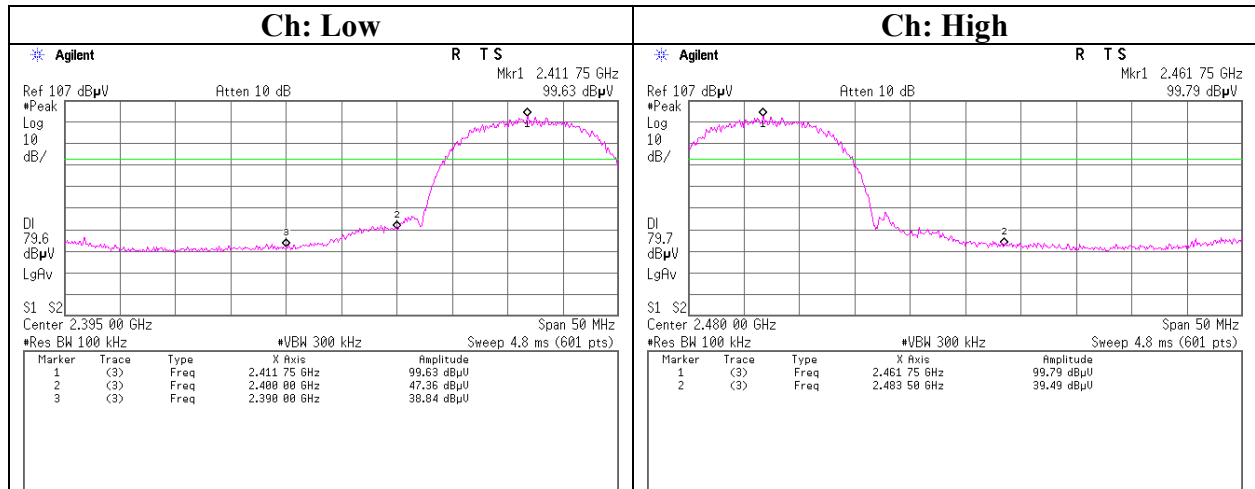


Conducted Spurious Emission
11b/g, Rx, Ch: Mid

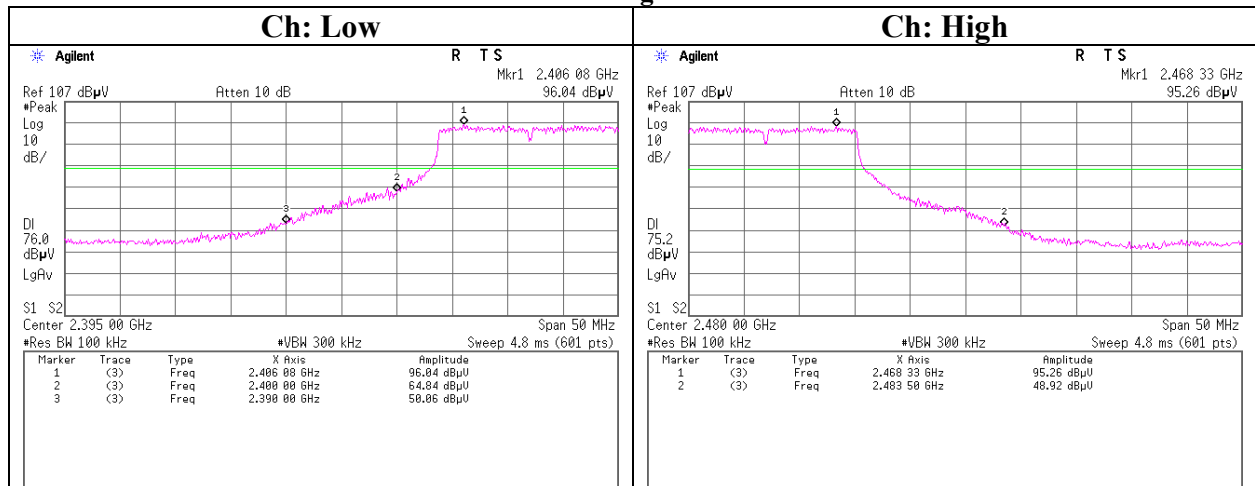


Conducted emission Band Edge compliance

11b



11g



Power Density

UL Japan, Inc.
Head Office EMC Lab. No.6 Measurement Room

Company : DENSO WAVE INCORPORATED
Equipment : BHT-800 MAIN BOARD
Model No. : DWWL001
Serial No. : MAC ID(0013E0F39B98)
Power : AC120V/60Hz
Mode : 11b 11Mbps Tx (Ch L, M, H)
 : 11g 24Mbps Tx (Ch L, M, H)

Test Report No. : 29FE0054-HO-02
Regulation : FCC15.247(e)/RSS-210A8.2(b)
Test distance : -
Date : 04/16/2009
Temperature : 21deg.C.
Humidity : 50%
Engineer : Katsunori Okai

[IEEE802.11b]

Ch	Freq. [MHz]	Reading [dBm]	Cable [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2410.7	-12.16	1.67	10.02	-0.47	8.00	8.47
Mid	2435.7	-13.00	1.68	10.02	-1.30	8.00	9.30
High	2460.7	-12.60	1.68	10.02	-0.90	8.00	8.90

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

[IEEE802.11g]

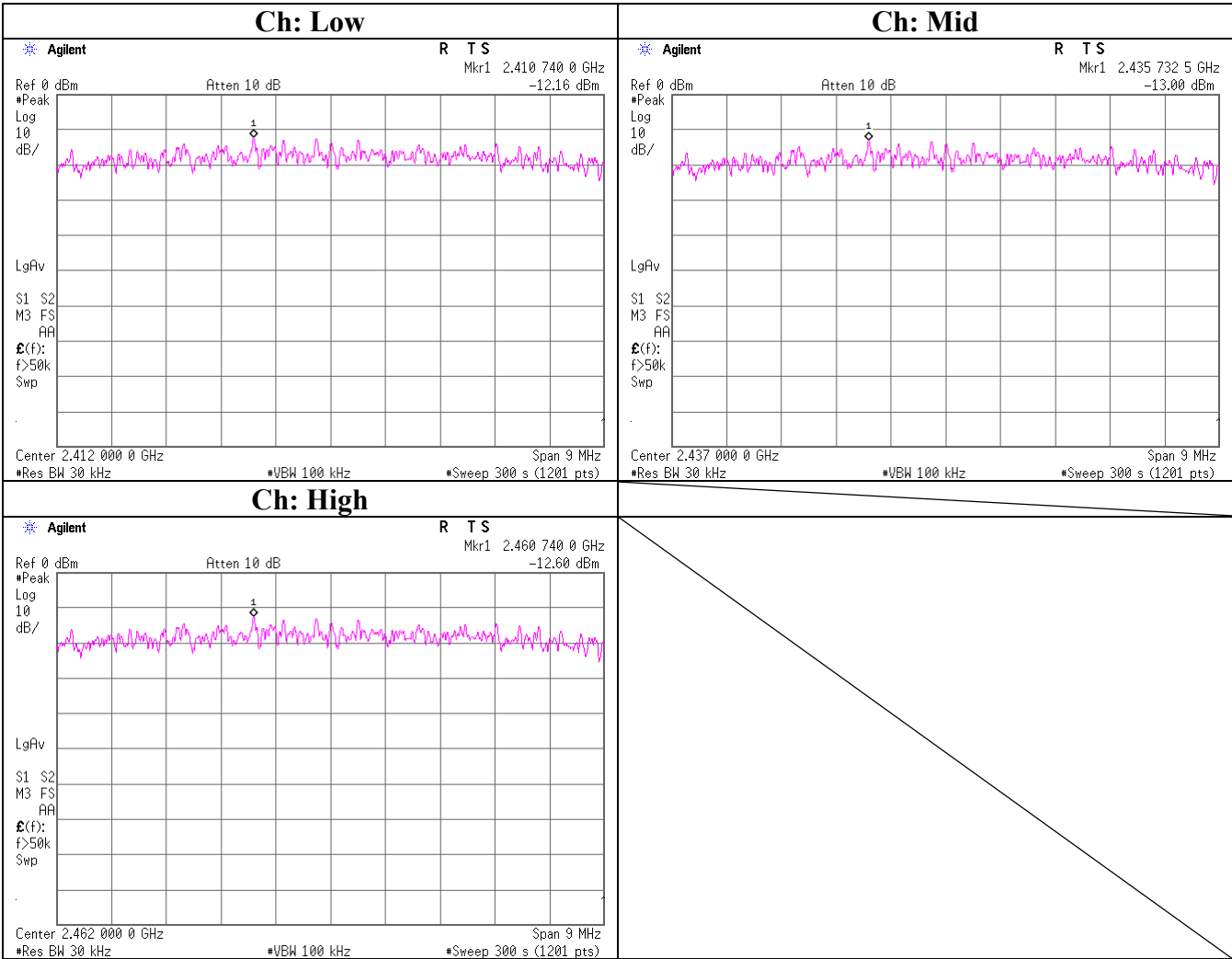
Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2407.7	-16.18	1.67	10.02	-4.49	8.00	12.49
Mid	2432.7	-17.29	1.68	10.02	-5.59	8.00	13.59
High	2457.7	-17.49	1.68	10.02	-5.79	8.00	13.79

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

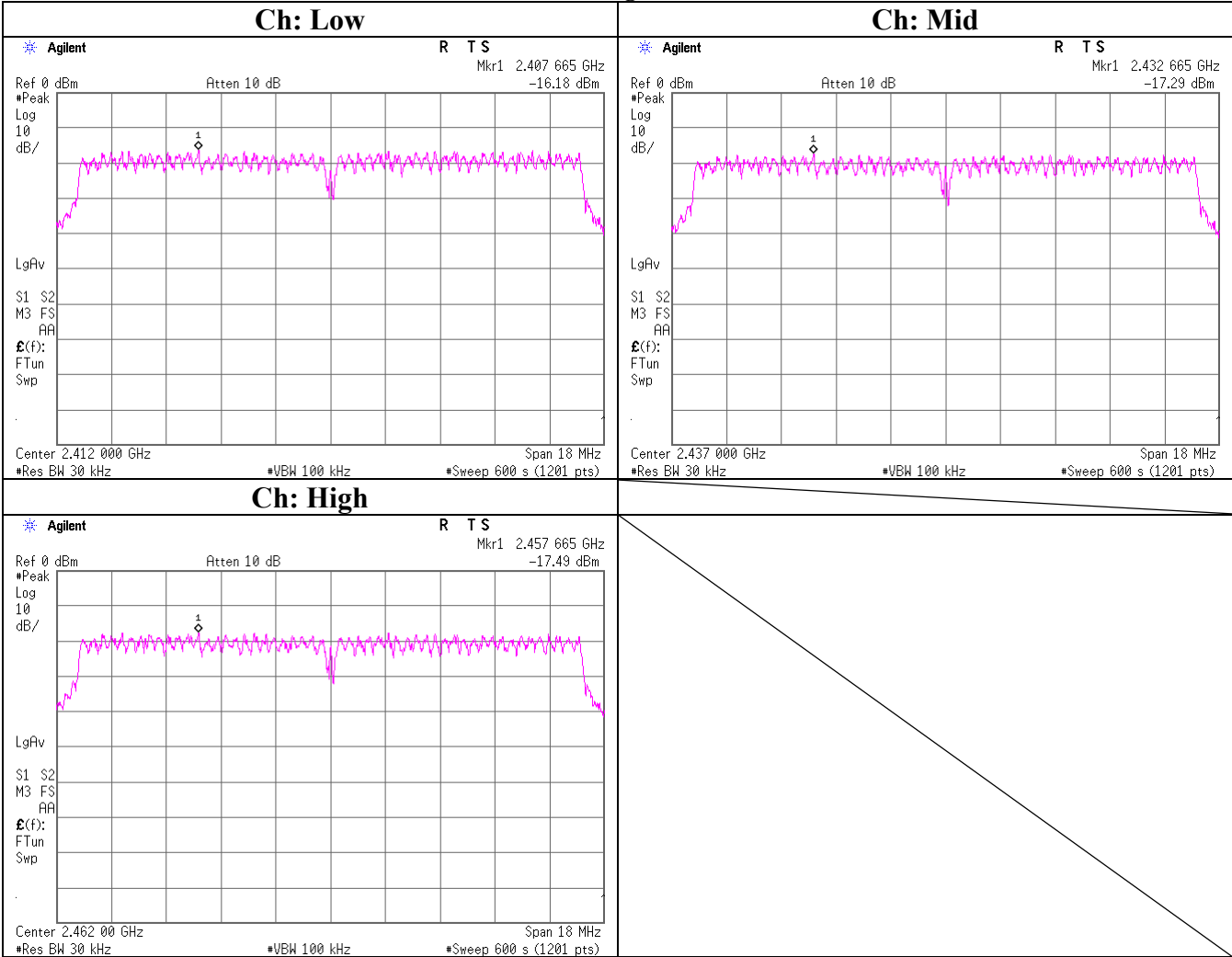
Power Density

11b



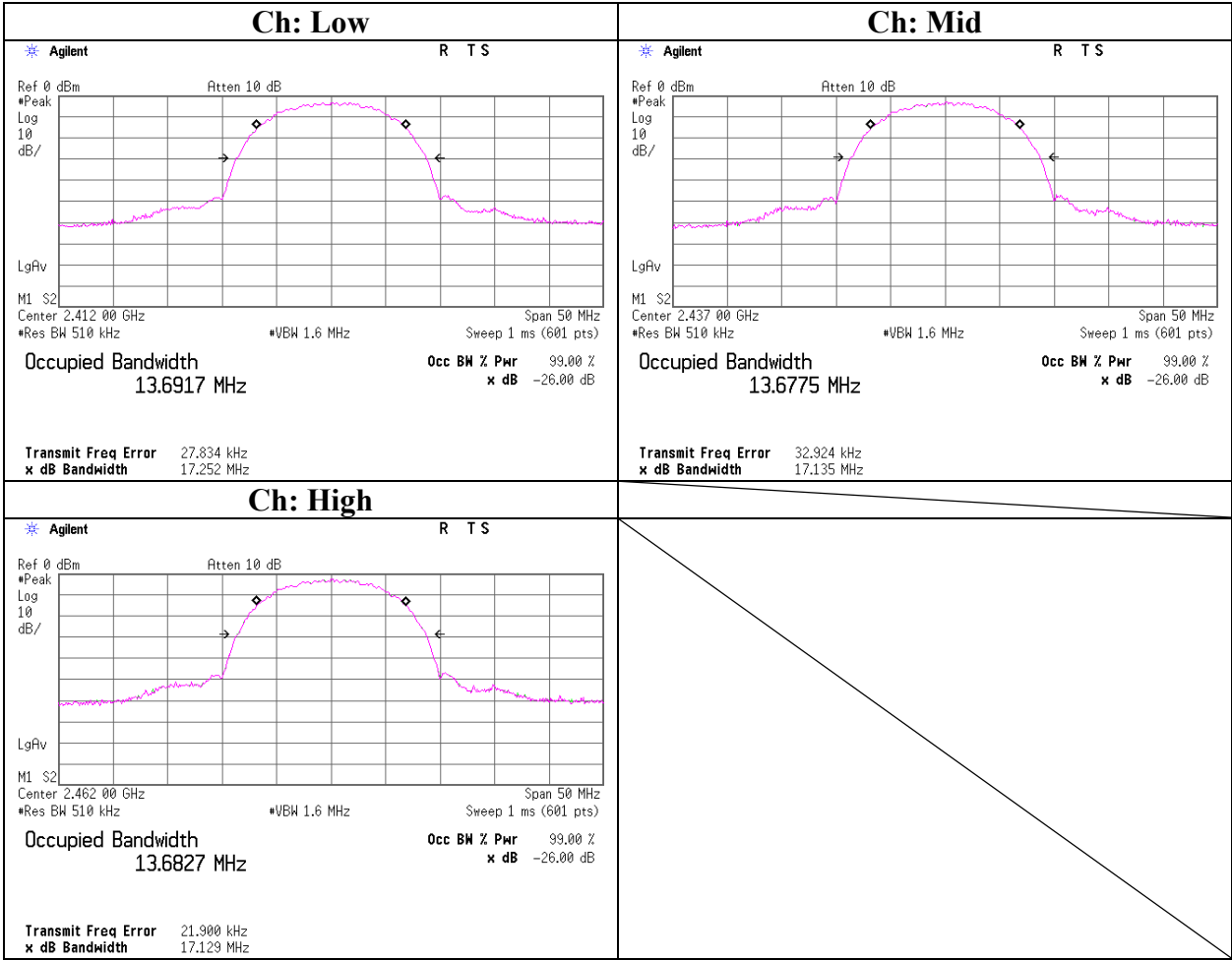
Power Density

11g



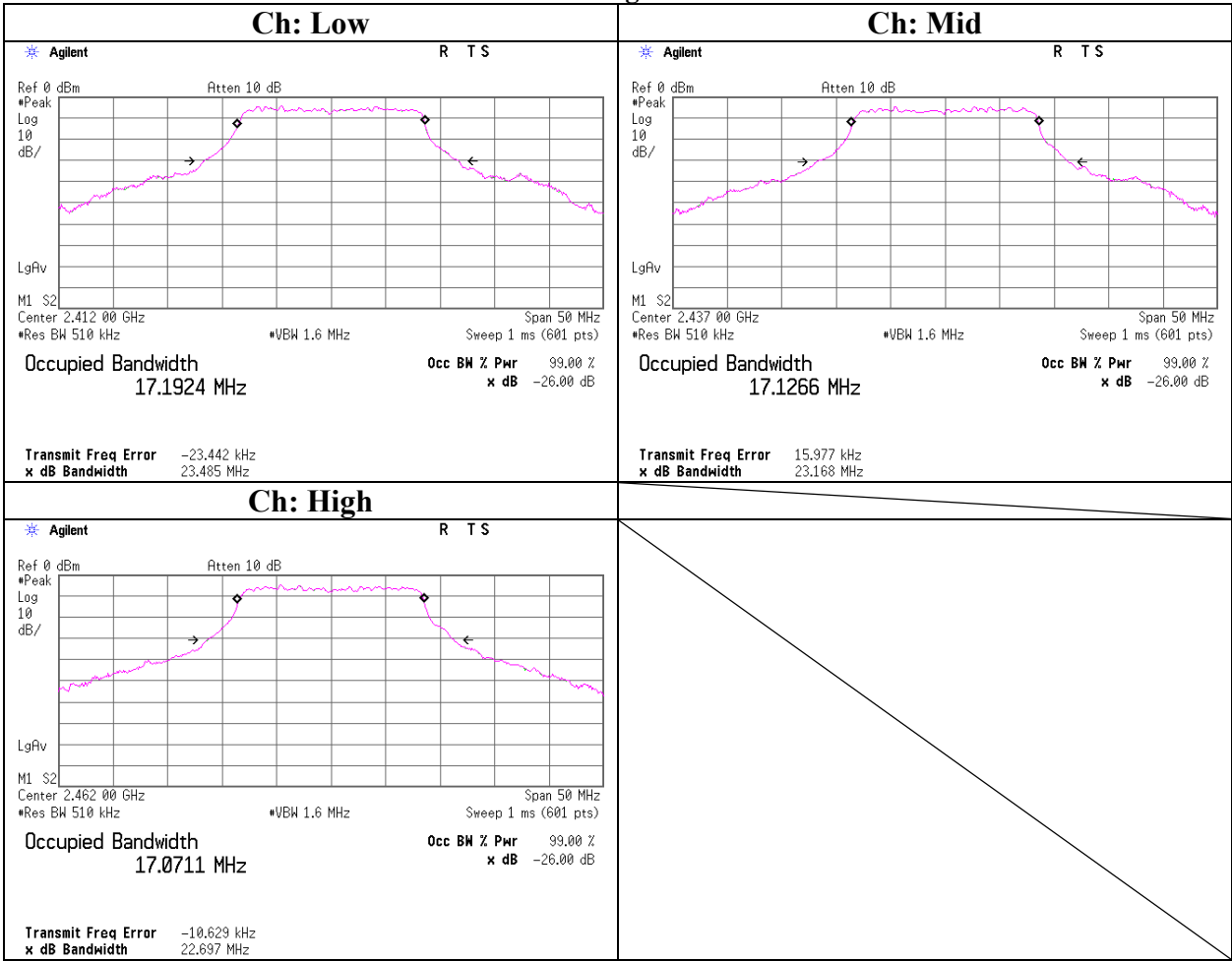
99%Occupied Bandwidth

11b



99%Occupied Bandwidth

11g



APPENDIX 3: Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MOS-14	Thermo-Hygrometer	Custom	CTH-180	-	AT	2009/02/04 * 12
MCC-36	Microwave Cable	Hirose Electric	U.FL-2LP-066-A-(200)	-	AT	2008/11/18 * 12
MCC-114	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	290212/4	AT	2008/08/01 * 12
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	-	AT/RE	2009/03/24 * 12
MPM-12	Power Meter	Anritsu	ML2495A	0825002	AT	2008/08/13 * 12
MPSE-17	Power sensor	Anritsu	MA2411B	0738285	AT	2008/08/13 * 12
MCC-37	Microwave Cable	Hirose Electric	U.FL-2LP-066-A-(200)	-	AT	2008/11/18 * 12
MSA-10	Spectrum Analyzer	Agilent	E4448A	MY46180655	AT	2009/02/25 * 12
MAT-22	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	-	AT	2009/03/24 * 12
MAEC-01	Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 10m	DA-06881	RE	2008/10/29 * 12
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	VHA91032007	RE	2008/11/12 * 12
MLA-09	Logperiodic Antenna	Schwarzbeck	USLP9143B	9143B006	RE	2008/11/12 * 12
MAT-06	Attenuator(6dB)	Weinschel Corp	2	BL1069	RE	2008/11/14 * 12
MCC-01	Coaxial Cable 0.1-3000MHz	Suhner/storm/Agilent/ TSJ	-	-	RE	2008/10/02 * 12
MPA-04	Pre Amplifier	Agilent	8447D	2944A09965	RE	2008/07/23 * 12
MTR-01	Test Receiver	Rohde & Schwarz	ES140	100084	RE	2008/12/01 * 12
CUST- MSTW-14	EMI measurement program	TSJ	TEPTO-DV	-	RE/CE	-
MOS-01	Digital Humidity Indicator	N.T	NT-1800	MOS01	RE	2009/02/06 * 12
MJM-01	Measure	KDS	ES19-55	-	RE	-
MHA-05	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	253	RE	2009/01/31 * 12
MHA-01	Horn Antenna 18-26.5GHz	EMCO	3160-09	1266	RE	2009/01/31 * 12
MCC-18	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	233010(1m) / 292410(5m)	RE	2008/09/09 * 12
MPA-01	Pre Amplifier	Agilent	8449B	3008A01671	RE	2009/02/12 * 12
MHF-17	High Pass Filter 3.5-18.0GHz	TOKIMEC	TF323DCA	7001	RE	2008/12/15 * 12
MCC-76	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	278967/4	RE	2008/12/17 * 12
MAEC-03	Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	CE	2009/02/02 * 12
MOS-13	Thermo-Hygrometer	Custom	CTH-180	-	CE	2009/02/06 * 12
MJM-06	Measure	PROMART	SEN1955	-	CE	-
MSA-09	Spectrum Analyzer	Advantest	R3273	95090115	CE	2008/12/24 * 12
MTR-08	Test Receiver	Rohde & Schwarz	ESCI	100767	CE	2008/06/12 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	8127363	CE(EUT)	2009/02/18 * 12
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	8127364	CE(AE)	2009/02/18 * 12
MTA-07	Terminator	MCL	BTRM-50	1 9944	CE	2009/02/17 * 12
MCC-112	Coaxial cable	Fujikura/Suhner/TSJ	-	-	CE	2008/07/03 * 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
AT: Antenna Terminal Conducted test

UL Japan, Inc.

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