

## Radiated Emission

Test place                   UL Japan, Inc. Shonan EMC Lab.    No.1 and No.3 Semi Anechoic Chamber  
 Date                        June 7, 2011                            June 7, 2011  
 Temperature / Humidity   25deg.C , 55%RH                    26deg.C , 54%RH  
 Engineer                  Akio Hayashi and Tatsuya Arai  
 Mode                        Tx,                                        2402 MHz  
                                   Tx, Bluetooth, BDR(DH5), PRBS9

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	614.388	QP	42.4	18.5	9.9	31.9	38.9	46.0	7.1	100	214	
Hori.	860.150	QP	37.5	20.5	10.6	31.2	37.4	46.0	8.6	107	143	
Hori.	1086.608	PK	49.9	23.9	12.5	41.2	45.1	73.9	28.8	100	356	
Hori.	1474.533	PK	55.7	25.5	12.9	40.8	53.3	73.9	20.6	100	115	
Hori.	2390.000	PK	46.2	27.1	13.8	40.6	46.5	73.9	27.4	117	179	
Hori.	2400.000	PK	50.7	27.1	13.8	40.6	51.0	73.9	22.9	117	179	
Hori.	4804.000	PK	48.7	30.8	5.8	41.5	43.8	73.9	30.1	135	352	
Hori.	7206.000	PK	46.2	36.0	7.1	40.7	48.6	73.9	25.3	100	0	
Hori.	9608.000	PK	44.9	38.3	8.6	40.5	51.3	73.9	22.6	136	335	
Hori.	12010.000	PK	45.7	39.1	9.5	39.5	54.8	73.9	19.1	100	0	
Hori.	1086.608	AV	37.3	23.9	12.5	41.2	32.5	53.9	21.4	100	356	VBW:10Hz
Hori.	1474.533	AV	45.5	25.5	12.9	40.8	43.1	53.9	10.8	100	115	VBW:10Hz
Hori.	2390.000	AV	35.0	27.1	13.8	40.6	35.3	53.9	18.6	117	179	VBW:270Hz
Hori.	2400.000	AV	41.9	27.1	13.8	40.6	42.2	53.9	11.7	117	179	VBW:270Hz
Hori.	4804.000	AV	41.2	30.8	5.8	41.5	36.3	53.9	17.6	135	352	VBW:270Hz
Hori.	7206.000	AV	36.6	36.0	7.1	40.7	39.0	53.9	14.9	100	0	VBW:270Hz
Hori.	9608.000	AV	35.4	38.3	8.6	40.5	41.8	53.9	12.1	136	335	VBW:270Hz
Hori.	12010.000	AV	35.2	39.1	9.5	39.5	44.3	53.9	9.6	100	0	VBW:270Hz
Vert.	614.388	QP	44.5	18.5	9.9	31.9	41.0	46.0	5.0	100	335	
Vert.	860.150	QP	35.8	20.5	10.6	31.2	35.7	46.0	10.3	131	14	
Vert.	1086.608	PK	48.8	23.9	12.5	41.2	44.0	73.9	29.9	100	93	
Vert.	1474.533	PK	51.9	25.5	12.9	40.8	49.5	73.9	24.4	109	159	
Vert.	2390.000	PK	46.3	27.1	13.8	40.6	46.6	73.9	27.3	100	35	
Vert.	2400.000	PK	49.8	27.1	13.8	40.6	50.1	73.9	23.8	100	35	
Vert.	4804.000	PK	51.1	30.8	5.8	41.5	46.2	73.9	27.7	100	298	
Vert.	7206.000	PK	46.8	36.0	7.1	40.7	49.2	73.9	24.7	100	0	
Vert.	9608.000	PK	45.3	38.3	8.6	40.5	51.7	73.9	22.2	110	333	
Vert.	12010.000	PK	44.4	39.1	9.5	39.5	53.5	73.9	20.4	100	0	
Vert.	1086.608	AV	36.7	23.9	12.5	41.2	31.9	53.9	22.0	100	93	VBW:10Hz
Vert.	1474.533	AV	41.8	25.5	12.9	40.8	39.4	53.9	14.5	109	159	VBW:10Hz
Vert.	2390.000	AV	35.4	27.1	13.8	40.6	35.7	53.9	18.2	100	35	VBW:270Hz
Vert.	2400.000	AV	39.5	27.1	13.8	40.6	39.8	53.9	14.1	100	35	VBW:270Hz
Vert.	4804.000	AV	45.7	30.8	5.8	41.5	40.8	53.9	13.1	100	298	VBW:270Hz
Vert.	7206.000	AV	36.2	36.0	7.1	40.7	38.6	53.9	15.3	100	0	VBW:270Hz
Vert.	9608.000	AV	36.5	38.3	8.6	40.5	42.9	53.9	11.0	110	333	VBW:270Hz
Vert.	12010.000	AV	35.1	39.1	9.5	39.5	44.2	53.9	9.7	100	0	VBW:270Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

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

## Radiated Emission

Test place                   UL Japan, Inc. Shonan EMC Lab.    No.1 and No.3 Semi Anechoic Chamber  
 Date                         June 7, 2011                             June 7, 2011  
 Temperature / Humidity   25deg.C , 55%RH                     26deg.C , 54%RH  
 Engineer                  Akio Hayashi and Tatsuya Arai  
 Mode                         Tx,   2441 MHz  
                                   Tx, Bluetooth, BDR(DH5), PRBS9

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	614.388	QP	42.6	18.5	9.9	31.9	39.1	46.0	6.9	166	214	
Hori.	860.150	QP	37.5	20.5	10.6	31.2	37.4	46.0	8.6	113	147	
Hori.	1086.608	PK	50.3	23.9	12.5	41.2	45.5	73.9	28.4	100	352	
Hori.	1474.533	PK	54.4	25.5	12.9	40.8	52.0	73.9	21.9	100	114	
Hori.	4882.000	PK	47.8	31.1	5.8	41.5	43.2	73.9	30.7	159	11	
Hori.	7323.000	PK	46.4	36.3	7.0	40.7	49.0	73.9	24.9	100	0	
Hori.	9764.000	PK	46.3	38.4	8.6	40.5	52.8	73.9	21.1	165	296	
Hori.	12205.000	PK	45.2	39.2	9.4	39.5	54.3	73.9	19.6	100	0	
Hori.	1086.608	AV	37.3	23.9	12.5	41.2	32.5	53.9	21.4	100	352	VBW:10Hz
Hori.	1474.533	AV	44.6	25.5	12.9	40.8	42.2	53.9	11.7	100	114	VBW:10Hz
Hori.	4882.000	AV	40.7	31.1	5.8	41.5	36.1	53.9	17.8	159	11	VBW:270Hz
Hori.	7323.000	AV	36.9	36.3	7.0	40.7	39.5	53.9	14.4	100	0	VBW:270Hz
Hori.	9764.000	AV	36.7	38.4	8.6	40.5	43.2	53.9	10.7	165	296	VBW:270Hz
Hori.	12205.000	AV	35.4	39.2	9.4	39.5	44.5	53.9	9.4	100	0	VBW:270Hz
Vert.	614.388	QP	44.8	18.5	9.9	31.9	41.3	46.0	4.7	100	336	
Vert.	860.150	QP	35.6	20.5	10.6	31.2	35.5	46.0	10.5	127	11	
Vert.	1086.608	PK	49.1	23.9	12.5	41.2	44.3	73.9	29.6	107	338	
Vert.	1474.533	PK	51.1	25.5	12.9	40.8	48.7	73.9	25.2	107	163	
Vert.	4882.000	PK	51.0	31.1	5.8	41.5	46.4	73.9	27.5	171	295	
Vert.	7323.000	PK	46.8	36.3	7.0	40.7	49.4	73.9	24.5	100	0	
Vert.	9764.000	PK	45.8	38.4	8.6	40.5	52.3	73.9	21.6	100	334	
Vert.	12205.000	PK	45.0	39.2	9.4	39.5	54.1	73.9	19.8	100	0	
Vert.	1086.608	AV	37.0	23.9	12.5	41.2	32.2	53.9	21.7	107	338	VBW:10Hz
Vert.	1474.533	AV	40.5	25.5	12.9	40.8	38.1	53.9	15.8	107	163	VBW:100Hz
Vert.	4882.000	AV	45.8	31.1	5.8	41.5	41.2	53.9	12.7	171	295	VBW:270Hz
Vert.	7323.000	AV	36.4	36.3	7.0	40.7	39.0	53.9	14.9	100	0	VBW:270Hz
Vert.	9764.000	AV	36.8	38.4	8.6	40.5	43.3	53.9	10.6	100	334	VBW:270Hz
Vert.	12205.000	AV	35.5	39.2	9.4	39.5	44.6	53.9	9.3	100	0	VBW:270Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

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

## Radiated Emission

Test place                   UL Japan, Inc. Shonan EMC Lab.    No.1 and No.3 Semi Anechoic Chamber  
 Date                         June 7, 2011                             June 7, 2011  
 Temperature / Humidity   25deg.C , 55%RH                     26deg.C , 54%RH  
 Engineer                   Akio Hayashi and Tatsuya Arai  
 Mode                         Tx,   2480 MHz  
                                   Tx, Bluetooth, BDR(DH5), PRBS9

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	614.387	QP	42.9	18.5	9.9	31.9	39.4	46.0	6.6	168	212	
Hori.	860.150	QP	37.4	20.5	10.6	31.2	37.3	46.0	8.7	110	143	
Hori.	1086.608	PK	50.3	23.9	12.5	41.2	45.5	73.9	28.4	100	352	
Hori.	1474.533	PK	54.3	25.5	12.9	40.8	51.9	73.9	22.0	100	113	
Hori.	2483.500	PK	45.2	27.1	13.8	40.5	45.6	73.9	28.3	118	228	
Hori.	4960.000	PK	49.9	31.3	5.8	41.5	45.5	73.9	28.4	156	10	
Hori.	7440.000	PK	46.5	36.5	7.0	40.8	49.2	73.9	24.7	100	0	
Hori.	9920.000	PK	46.9	38.4	8.5	40.5	53.3	73.9	20.6	296	163	
Hori.	12400.000	PK	46.0	39.2	9.4	39.4	55.2	73.9	18.7	100	0	
Hori.	1086.608	AV	37.4	23.9	12.5	41.2	32.6	53.9	21.3	100	352	VBW:10Hz
Hori.	1474.533	AV	44.4	25.5	12.9	40.8	42.0	53.9	11.9	100	113	VBW:10Hz
Hori.	2483.500	AV	34.8	27.1	13.8	40.5	35.2	53.9	18.7	118	228	VBW:270Hz
Hori.	4960.000	AV	41.7	31.3	5.8	41.5	37.3	53.9	16.6	156	10	VBW:270Hz
Hori.	7440.000	AV	37.1	36.5	7.0	40.8	39.8	53.9	14.1	100	0	VBW:270Hz
Hori.	9920.000	AV	37.2	38.4	8.5	40.5	43.6	53.9	10.3	296	163	VBW:270Hz
Hori.	12400.000	AV	35.1	39.2	9.4	39.4	44.3	53.9	9.6	100	0	VBW:270Hz
Vert.	614.387	QP	44.6	18.5	9.9	31.9	41.1	46.0	4.9	100	333	
Vert.	860.150	QP	35.4	20.5	10.6	31.2	35.3	46.0	10.7	126	14	
Vert.	1086.608	PK	49.9	23.9	12.5	41.2	45.1	73.9	28.8	121	335	
Vert.	1474.533	PK	50.5	25.5	12.9	40.8	48.1	73.9	25.8	110	137	
Vert.	2483.500	PK	46.5	27.1	13.8	40.5	46.9	73.9	27.0	100	93	
Vert.	4960.000	PK	49.2	31.3	5.8	41.5	44.8	73.9	29.1	100	222	
Vert.	7440.000	PK	47.4	36.5	7.0	40.8	50.1	73.9	23.8	100	0	
Vert.	9920.000	PK	45.6	38.4	8.5	40.5	52.0	73.9	21.9	114	329	
Vert.	12400.000	PK	43.6	39.2	9.4	39.4	52.8	73.9	21.1	100	0	
Vert.	1086.608	AV	37.1	23.9	12.5	41.2	32.3	53.9	21.6	121	335	VBW:10Hz
Vert.	1474.533	AV	42.0	25.5	12.9	40.8	39.6	53.9	14.3	110	137	VBW:10Hz
Vert.	2483.500	AV	35.2	27.1	13.8	40.5	35.6	53.9	18.3	100	93	VBW:270Hz
Vert.	4960.000	AV	42.6	31.3	5.8	41.5	38.2	53.9	15.7	100	222	VBW:270Hz
Vert.	7440.000	AV	36.8	36.5	7.0	40.8	39.5	53.9	14.4	100	0	VBW:270Hz
Vert.	9920.000	AV	36.2	38.4	8.5	40.5	42.6	53.9	11.3	114	329	VBW:270Hz
Vert.	12400.000	AV	34.4	39.2	9.4	39.4	43.6	53.9	10.3	100	0	VBW:270Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

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

## Radiated Emission

Test place                   UL Japan, Inc. Shonan EMC Lab.    No.1 and No.3 Semi Anechoic Chamber  
 Date                         June 7, 2011                             June 7, 2011  
 Temperature / Humidity   25deg.C , 55%RH                     26deg.C , 54%RH  
 Engineer                  Akio Hayashi and Tatsuya Arai  
 Mode                         Tx,   2402 MHz  
                                   Tx, Bluetooth, EDR(3DH5), PRBS9

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	614.388	QP	43.2	18.5	9.9	31.9	39.7	46.0	6.3	170	211	
Hori.	860.147	QP	37.4	20.5	10.6	31.2	37.3	46.0	8.7	114	146	
Hori.	1086.608	PK	50.6	23.9	12.5	41.2	45.8	73.9	28.1	100	354	
Hori.	1474.533	PK	54.7	25.5	12.9	40.8	52.3	73.9	21.6	100	118	
Hori.	2390.000	PK	46.8	27.1	13.8	40.6	47.1	73.9	26.8	119	277	
Hori.	2400.000	PK	61.1	27.1	13.8	40.6	61.4	73.9	12.5	119	277	
Hori.	4804.000	PK	48.3	30.8	5.8	41.5	43.4	73.9	30.5	163	12	
Hori.	7206.000	PK	46.1	36.0	7.1	40.7	48.5	73.9	25.4	100	0	
Hori.	9608.000	PK	45.6	38.3	8.6	40.5	52.0	73.9	21.9	100	309	
Hori.	12010.000	PK	44.7	39.1	9.5	39.5	53.8	73.9	20.1	100	0	
Hori.	1086.608	AV	37.4	23.9	12.5	41.2	32.6	53.9	21.3	100	354	VBW:10Hz
Hori.	1474.533	AV	44.6	25.5	12.9	40.8	42.2	53.9	11.7	100	118	VBW:10Hz
Hori.	2390.000	AV	34.6	27.1	13.8	40.6	34.9	53.9	19.0	119	277	VBW:270Hz
Hori.	2400.000	AV	51.0	27.1	13.8	40.6	51.3	53.9	2.6	119	277	VBW:270Hz
Hori.	4804.000	AV	41.9	30.8	5.8	41.5	37.0	53.9	16.9	163	12	VBW:270Hz
Hori.	7206.000	AV	36.5	36.0	7.1	40.7	38.9	53.9	15.0	100	0	VBW:270Hz
Hori.	9608.000	AV	34.4	38.3	8.6	40.5	40.8	53.9	13.1	100	309	VBW:270Hz
Hori.	12010.000	AV	34.8	39.1	9.5	39.5	43.9	53.9	10.0	100	0	VBW:270Hz
Vert.	614.388	QP	45.0	18.5	9.9	31.9	41.5	46.0	4.5	100	334	
Vert.	860.147	QP	35.5	20.5	10.6	31.2	35.4	46.0	10.6	128	9	
Vert.	1086.608	PK	48.4	23.9	12.5	41.2	43.6	73.9	30.3	137	352	
Vert.	1474.533	PK	49.7	25.5	12.9	40.8	47.3	73.9	26.6	100	351	
Vert.	2390.000	PK	45.6	27.1	13.8	40.6	45.9	73.9	28.0	100	37	
Vert.	2400.000	PK	56.7	27.1	13.8	40.6	57.0	73.9	16.9	100	37	
Vert.	4804.000	PK	50.6	30.8	5.8	41.5	45.7	73.9	28.2	100	290	
Vert.	7206.000	PK	45.8	36.0	7.1	40.7	48.2	73.9	25.7	100	0	
Vert.	9608.000	PK	45.6	38.3	8.6	40.5	52.0	73.9	21.9	103	315	
Vert.	12010.000	PK	43.3	39.1	9.5	39.5	52.4	73.9	21.5	100	0	
Vert.	1086.608	AV	37.0	23.9	12.5	41.2	32.2	53.9	21.7	137	352	VBW:10Hz
Vert.	1474.533	AV	42.3	25.5	12.9	40.8	39.9	53.9	14.0	100	351	VBW:10Hz
Vert.	2390.000	AV	35.1	27.1	13.8	40.6	35.4	53.9	18.5	100	37	VBW:270Hz
Vert.	2400.000	AV	48.4	27.1	13.8	40.6	48.7	53.9	5.2	100	37	VBW:270Hz
Vert.	4804.000	AV	45.4	30.8	5.8	41.5	40.5	53.9	13.4	100	290	VBW:270Hz
Vert.	7206.000	AV	36.5	36.0	7.1	40.7	38.9	53.9	15.0	100	0	VBW:270Hz
Vert.	9608.000	AV	35.2	38.3	8.6	40.5	41.6	53.9	12.3	103	315	VBW:270Hz
Vert.	12010.000	AV	33.6	39.1	9.5	39.5	42.7	53.9	11.2	100	0	VBW:270Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

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

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 Engineer                  Akio Hayashi and Tatsuya Arai  
 Mode                        Tx,                                        2441 MHz  
                                   Tx, Bluetooth, EDR(3DH5), PRBS9

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	614.386	QP	43.4	18.5	9.9	31.9	39.9	46.0	6.1	172	211	
Hori.	860.143	QP	37.7	20.5	10.6	31.2	37.6	46.0	8.4	107	146	
Hori.	1086.608	PK	50.0	23.9	12.5	41.2	45.2	73.9	28.7	100	354	
Hori.	1474.533	PK	52.7	25.5	12.9	40.8	50.3	73.9	23.6	100	111	
Hori.	4882.000	PK	48.7	31.1	5.8	41.5	44.1	73.9	29.8	159	10	
Hori.	7323.000	PK	46.2	36.3	7.0	40.7	48.8	73.9	25.1	100	0	
Hori.	9764.000	PK	45.1	38.4	8.6	40.5	51.6	73.9	22.3	165	294	
Hori.	12205.000	PK	43.2	39.2	9.4	39.5	52.3	73.9	21.6	100	0	
Hori.	1086.608	AV	37.3	23.9	12.5	41.2	32.5	53.9	21.4	100	354	VBW:10Hz
Hori.	1474.533	AV	44.2	25.5	12.9	40.8	41.8	53.9	12.1	100	111	VBW:10Hz
Hori.	4882.000	AV	41.2	31.1	5.8	41.5	36.6	53.9	17.3	159	10	VBW:270Hz
Hori.	7323.000	AV	36.4	36.3	7.0	40.7	39.0	53.9	14.9	100	0	VBW:270Hz
Hori.	9764.000	AV	36.1	38.4	8.6	40.5	42.6	53.9	11.3	165	294	VBW:270Hz
Hori.	12205.000	AV	32.9	39.2	9.4	39.5	42.0	53.9	11.9	100	0	VBW:270Hz
Vert.	614.386	QP	44.9	18.5	9.9	31.9	41.4	46.0	4.6	100	339	
Vert.	860.143	QP	35.6	20.5	10.6	31.2	35.5	46.0	10.5	129	9	
Vert.	1086.608	PK	49.0	23.9	12.5	41.2	44.2	73.9	29.7	126	351	
Vert.	1474.533	PK	51.5	25.5	12.9	40.8	49.1	73.9	24.8	100	353	
Vert.	4882.000	PK	50.8	31.1	5.8	41.5	46.2	73.9	27.7	171	296	
Vert.	7323.000	PK	46.6	36.3	7.0	40.7	49.2	73.9	24.7	100	0	
Vert.	9764.000	PK	45.4	38.4	8.6	40.5	51.9	73.9	22.0	120	288	
Vert.	12205.000	PK	44.2	39.2	9.4	39.5	53.3	73.9	20.6	100	0	
Vert.	1086.608	AV	37.0	23.9	12.5	41.2	32.2	53.9	21.7	126	351	VBW:10Hz
Vert.	1474.533	AV	42.0	25.5	12.9	40.8	39.6	53.9	14.3	100	353	VBW:10Hz
Vert.	4882.000	AV	46.1	31.1	5.8	41.5	41.5	53.9	12.4	171	296	VBW:270Hz
Vert.	7323.000	AV	36.1	36.3	7.0	40.7	38.7	53.9	15.2	100	0	VBW:270Hz
Vert.	9764.000	AV	36.5	38.4	8.6	40.5	43.0	53.9	10.9	120	288	VBW:270Hz
Vert.	12205.000	AV	34.7	39.2	9.4	39.5	43.8	53.9	10.1	100	0	VBW:270Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

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

## Radiated Emission

Test place                   UL Japan, Inc. Shonan EMC Lab.    No.1 and No.3 Semi Anechoic Chamber  
 Date                         June 7, 2011                             June 7, 2011  
 Temperature / Humidity   25deg.C , 55%RH                     26deg.C , 54%RH  
 Engineer                  Akio Hayashi and Tatsuya Arai  
 Mode                         Tx,   2480 MHz  
                                   Tx, Bluetooth, EDR(3DH5), PRBS9

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	614.393	QP	43.3	18.5	9.9	31.9	39.8	46.0	6.2	100	217	
Hori.	860.148	QP	37.8	20.5	10.6	31.2	37.7	46.0	8.3	110	144	
Hori.	1086.608	PK	49.1	23.9	12.5	41.2	44.3	73.9	29.6	100	0	
Hori.	1474.533	PK	54.9	25.5	12.9	40.8	52.5	73.9	21.4	100	113	
Hori.	2483.500	PK	47.6	27.1	13.8	40.5	48.0	73.9	25.9	119	230	
Hori.	4960.000	PK	48.8	31.3	5.8	41.5	44.4	73.9	29.5	159	14	
Hori.	7440.000	PK	46.6	36.5	7.0	40.8	49.3	73.9	24.6	100	0	
Hori.	9920.000	PK	45.6	38.4	8.5	40.5	52.0	73.9	21.9	165	295	
Hori.	12400.000	PK	44.6	39.2	9.4	39.4	53.8	73.9	20.1	100	0	
Hori.	1086.608	AV	37.4	23.9	12.5	41.2	32.6	53.9	21.3	100	0	VBW:10Hz
Hori.	1474.533	AV	44.3	25.5	12.9	40.8	41.9	53.9	12.0	100	113	VBW:10Hz
Hori.	2483.500	AV	34.9	27.1	13.8	40.5	35.3	53.9	18.6	119	230	VBW:270Hz
Hori.	4960.000	AV	41.6	31.3	5.8	41.5	37.2	53.9	16.7	159	14	VBW:270Hz
Hori.	7440.000	AV	36.9	36.5	7.0	40.8	39.6	53.9	14.3	100	0	VBW:270Hz
Hori.	9920.000	AV	36.9	38.4	8.5	40.5	43.3	53.9	10.6	165	295	VBW:270Hz
Hori.	12400.000	AV	33.7	39.2	9.4	39.4	42.9	53.9	11.0	100	0	VBW:270Hz
Vert.	614.393	QP	45.1	18.5	9.9	31.9	41.6	46.0	4.4	100	337	
Vert.	860.148	QP	35.7	20.5	10.6	31.2	35.6	46.0	10.4	130	13	
Vert.	1086.608	PK	49.3	23.9	12.5	41.2	44.5	73.9	29.4	104	342	
Vert.	1474.533	PK	52.0	25.5	12.9	40.8	49.6	73.9	24.3	113	151	
Vert.	2483.500	PK	47.3	27.1	13.8	40.5	47.7	73.9	26.2	100	91	
Vert.	4960.000	PK	48.7	31.3	5.8	41.5	44.3	73.9	29.6	100	226	
Vert.	7440.000	PK	46.8	36.5	7.0	40.8	49.5	73.9	24.4	100	0	
Vert.	9920.000	PK	46.1	38.4	8.5	40.5	52.5	73.9	21.4	106	332	
Vert.	12400.000	PK	43.0	39.2	9.4	39.4	52.2	73.9	21.7	100	0	
Vert.	1086.608	AV	36.9	23.9	12.5	41.2	32.1	53.9	21.8	104	342	VBW:10Hz
Vert.	1474.533	AV	41.8	25.5	12.9	40.8	39.4	53.9	14.5	113	151	VBW:10Hz
Vert.	2483.500	AV	35.5	27.1	13.8	40.5	35.9	53.9	18.0	100	91	VBW:270Hz
Vert.	4960.000	AV	42.1	31.3	5.8	41.5	37.7	53.9	16.2	100	226	VBW:270Hz
Vert.	7440.000	AV	36.9	36.5	7.0	40.8	39.6	53.9	14.3	100	0	VBW:270Hz
Vert.	9920.000	AV	36.7	38.4	8.5	40.5	43.1	53.9	10.8	106	332	VBW:270Hz
Vert.	12400.000	AV	33.8	39.2	9.4	39.4	43.0	53.9	10.9	100	0	VBW:270Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

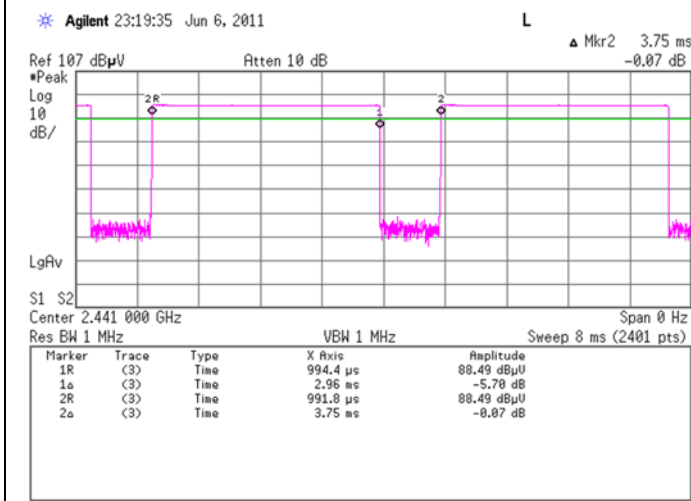
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

## Spurious emission (Radiated)

DH5,

VBW (AV) Calculation

**VBW:  $1/x = 267\text{Hz} < 300\text{Hz}$**   
**x: (Tx on+Tx off) = 3.75ms**



**UL Japan, Inc.**  
**Shonan EMC Lab.**

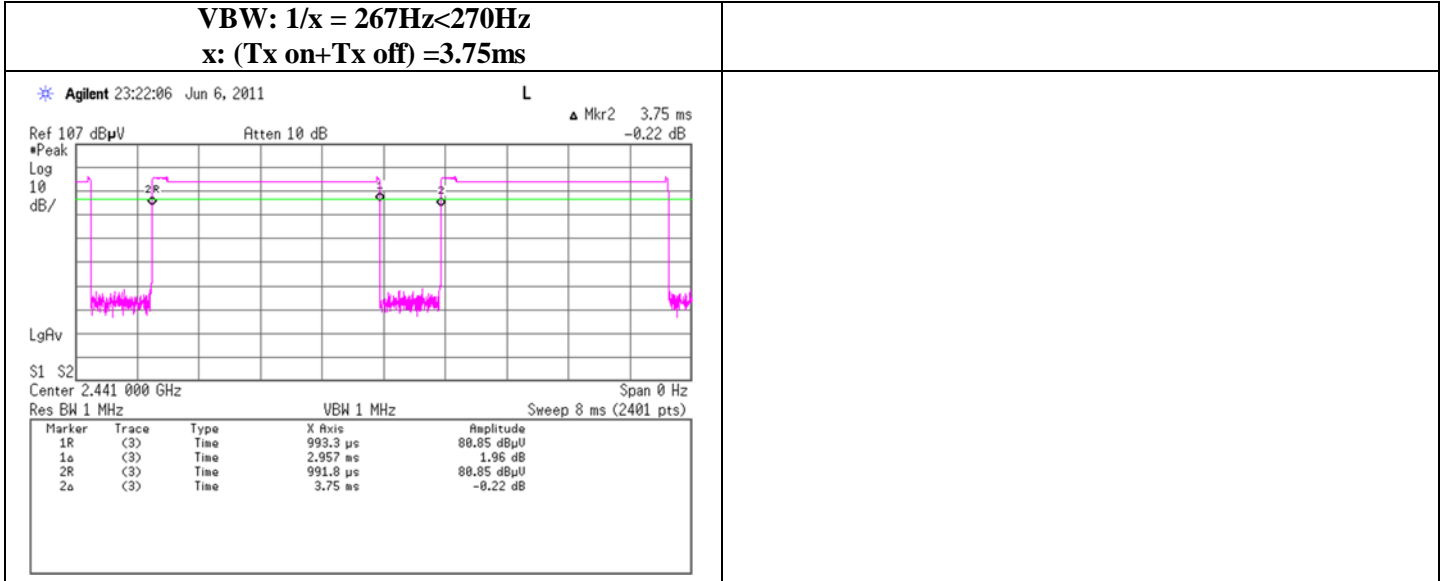
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
 Telephone : +81 463 50 6400  
 Facsimile : +81 463 50 6401

**Spurious emission (Radiated)**

3-DH5,

VBW (AV) Calculation

**VBW:  $1/x = 267\text{Hz} < 270\text{Hz}$**   
**x: (Tx on+Tx off) = 3.75ms**



**UL Japan, Inc.**  
**Shonan EMC Lab.**

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
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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)
SAF-04	Pre Amplifier	TOYO Corporation	TPA0118-36	1440489	RE	2011/03/23 * 12
SCC-G01	Coaxial Cable	Suhner	SUCOFLEX 104A	46497/4A	RE	2011/04/28 * 12
SCC-G21	Coaxial Cable	Suhner	SUCOFLEX 104	296169/4	RE	2011/05/27 * 12
SHA-01	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-725	RE	2010/08/08 * 12
SOS-01	Humidity Indicator	A&D	AD-5681	4062555	RE	2011/02/23 * 12
KSA-08	Spectrum Analyzer	Agilent	E4446A	MY46180525	RE	2011/02/02 * 12
SJM-12	Measure	PROMART	SEN1935	-	RE	-
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV(RE,CE, RF,LF)	-	RE	-
KFL-01	Highpass Filter	Hewlett Packard	84300 80038	004	RE	2011/04/21 * 12
SAT10-06	Attenuator	Agilent	8493C-010	74865	RE	2011/03/23 * 12
SHA-04	Horn Antenna	ETS LINDGREN	3160-09	LM3640	RE	2011/03/15 * 12
SCC-G17	Coaxial Cable	Suhner	SUCOFLEX 104A	46291/4A	RE	2011/03/16 * 12
SAF-08	Pre Amplifier	TOYO Corporation	HAP18-26W	00000019	RE	2011/03/16 * 12
SAF-03	Pre Amplifier	SONOMA	310N	290213	RE	2011/02/17 * 12
SAT6-03	Attenuator	JFW	50HF-006N	-	RE	2011/02/17 * 12
SBA-03	Biconical Antenna	Schwarzbeck	BBA9106	91032666	RE	2010/10/15 * 12
SCC-C1/C2/C3/C4/C5/C10/SRSE-03	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-271(RF Selector)	RE	2011/04/28 * 12
SLA-03	Logperiodic Antenna	Schwarzbeck	UHALP9108A	UHALP 9108-A 0901	RE	2010/10/15 * 12
SOS-05	Humidity Indicator	A&D	AD-5681	4062518	RE	2011/02/23 * 12
STR-03	Test Receiver	Rohde & Schwarz	ES140	100054/040	RE	2010/07/21 * 12
SJM-10	Measure	PROMART	SEN1935	-	RE	-
SAEC-03(NSA)	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	RE	2010/09/13 * 12
SLP-02	Loop Antenna	Rohde & Schwarz	HFH2-Z2	100218	RE	2010/10/15 * 12

The expiration date of the calibration is the end of the expired month .  
As for some calibrations performed after the tested dates , those test equipment have been controlled by means of an unbroken chains of calibrations .

All equipment is calibrated with traceable calibrations . Each calibration is traceable to the national or international standards .

Test Item :

RE: Radiated emission