

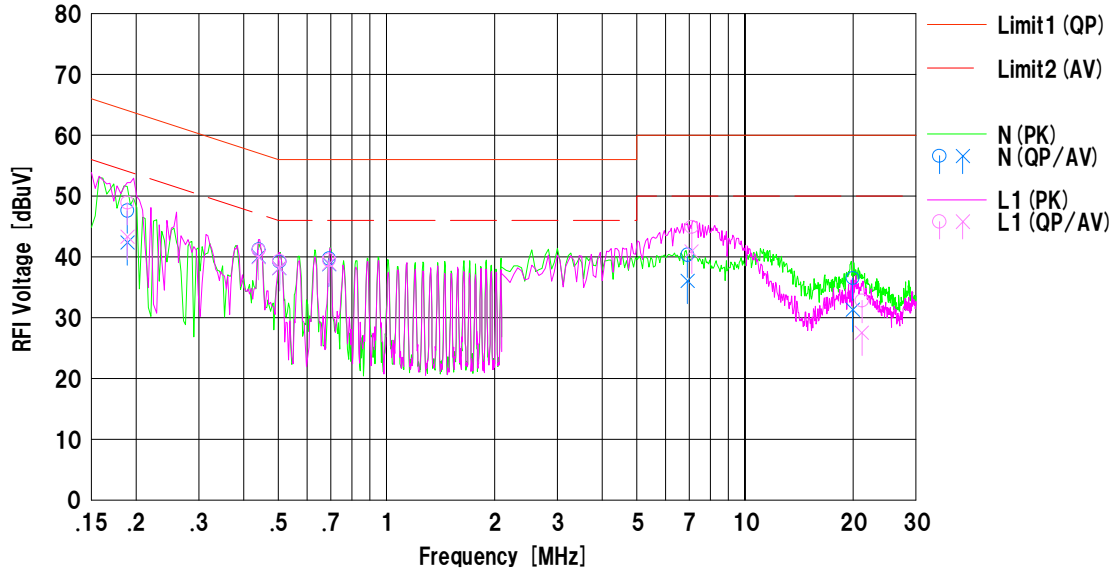
**APPENDIX 2: Data of EMI test**

**Conducted Emission**

Test place                   UL Japan, Inc. Shonan EMC Lab.                   No.3 Semi Anechoic Chamber  
 Date                         September 13, 2010  
 Temperature / Humidity   25 deg.C     , 42%  
 Engineer                    Kenichi Adachi  
 Mode                        Transmitting   1395.5125 MHz

Limit1 : FCC 15B (15.107) Class B, QP  
 Limit2 : FCC 15B (15.107) Class B, AV

Engineer                   : Kenichi Adachi



No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]	<QP> [dB]	<AV> [dB]		
1	0.18950	35.0	29.7	12.6	47.6	42.3	64.0	54.0	16.4	11.7	N	
2	0.43989	28.6	27.4	12.6	41.2	40.0	57.0	47.0	15.8	7.0	N	
3	0.50259	26.5	25.4	12.7	39.2	38.1	56.0	46.0	16.8	7.9	N	
4	0.69182	27.0	26.1	12.7	39.7	38.8	56.0	46.0	16.3	7.2	N	
5	6.91437	27.2	22.9	13.1	40.3	36.0	60.0	50.0	19.7	14.0	N	
6	19.98998	22.7	17.5	13.8	36.5	31.3	60.0	50.0	23.5	18.7	N	
7	0.18950	36.3	30.7	12.6	48.9	43.3	64.0	54.0	15.1	10.7	L1	
8	0.43989	28.5	27.3	12.6	41.1	39.9	57.0	47.0	15.9	7.1	L1	
9	0.50259	26.6	25.4	12.7	39.3	38.1	56.0	46.0	16.7	7.9	L1	
10	0.69182	26.8	26.2	12.7	39.5	38.9	56.0	46.0	16.5	7.1	L1	
11	7.10414	31.8	27.8	13.1	44.9	40.9	60.0	50.0	15.1	9.1	L1	
12	21.18712	18.9	13.6	13.9	32.8	27.5	60.0	50.0	27.2	22.5	L1	

Calculation:Result [dBuV] =Reading [dBuV] +C.Fac (LISN+Cable+ATT) [dB]



**Frequency Stability**

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room  
 Date July 9, 2010  
 Temperature / Humidity 23deg.C , 61%  
 Engineer Kenichi Adachi  
 Mode Transmitting

Test Condition deg.C	Volts	Test Timing	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit [+/- ppm]	Margin [ppm]
20deg.C	4.5V (Vmin)	Power on	1395.511424	-0.001076	-0.77	2.50	1.73
		on 2min.	1395.511427	-0.001073	-0.77	2.50	1.73
		on 5min.	1395.511432	-0.001068	-0.77	2.50	1.73
		on 10min.	1395.511442	-0.001058	-0.76	2.50	1.74
	5V (Vnom)	Power on	1395.511445	-0.001055	-0.76	2.50	1.74
		on 2min.	1395.511443	-0.001057	-0.76	2.50	1.74
		on 5min.	1395.511436	-0.001064	-0.76	2.50	1.74
		on 10min.	1395.511424	-0.001076	-0.77	2.50	1.73
	5.5V (Vmax)	Power on	1395.511393	-0.001107	-0.79	2.50	1.71
		on 2min.	1395.511392	-0.001108	-0.79	2.50	1.71
		on 5min.	1395.511391	-0.001109	-0.79	2.50	1.71
		on 10min.	1395.511387	-0.001113	-0.80	2.50	1.70
50deg.C.	5V	Power on	1395.510898	-0.001602	-1.15	2.50	1.35
		on 2min.	1395.510897	-0.001603	-1.15	2.50	1.35
		on 5min.	1395.510894	-0.001606	-1.15	2.50	1.35
		on 10min.	1395.510891	-0.001609	-1.15	2.50	1.35
40deg.C.		Power on	1395.510976	-0.001524	-1.09	2.50	1.41
		on 2min.	1395.510978	-0.001522	-1.09	2.50	1.41
		on 5min.	1395.510980	-0.001520	-1.09	2.50	1.41
		on 10min.	1395.510973	-0.001527	-1.09	2.50	1.41
30deg.C.		Power on	1395.511173	-0.001327	-0.95	2.50	1.55
		on 2min.	1395.511158	-0.001342	-0.96	2.50	1.54
		on 5min.	1395.511153	-0.001347	-0.97	2.50	1.53
		on 10min.	1395.511137	-0.001363	-0.98	2.50	1.52
20deg.C.	Power on	1395.511445	-0.001055	-0.76	2.50	1.74	
	on 2min.	1395.511443	-0.001057	-0.76	2.50	1.74	
	on 5min.	1395.511436	-0.001064	-0.76	2.50	1.74	
	on 10min.	1395.511424	-0.001076	-0.77	2.50	1.73	
10deg.C.	Power on	1395.511579	-0.000921	-0.66	2.50	1.84	
	on 2min.	1395.511581	-0.000919	-0.66	2.50	1.84	
	on 5min.	1395.511583	-0.000917	-0.66	2.50	1.84	
	on 10min.	1395.511599	-0.000901	-0.65	2.50	1.85	
0deg.C.	Power on	1395.511710	-0.000790	-0.57	2.50	1.93	
	on 2min.	1395.511712	-0.000788	-0.56	2.50	1.94	
	on 5min.	1395.511713	-0.000787	-0.56	2.50	1.94	
	on 10min.	1395.511714	-0.000786	-0.56	2.50	1.94	
-10deg.C.	Power on	1395.511741	-0.000759	-0.54	2.50	1.96	
	on 2min.	1395.511744	-0.000756	-0.54	2.50	1.96	
	on 5min.	1395.511746	-0.000754	-0.54	2.50	1.96	
	on 10min.	1395.511747	-0.000753	-0.54	2.50	1.96	
-20deg.C	Power on	1395.511781	-0.000719	-0.52	2.50	1.98	
	on 2min.	1395.511795	-0.000705	-0.51	2.50	1.99	
	on 5min.	1395.511809	-0.000691	-0.50	2.50	2.00	
	on 10min.	1395.511812	-0.000688	-0.49	2.50	2.01	

Limit : 1395.5125 MHz +/-0.00025 % (+/- 2.5ppm) = +/- 0.003489 MHz

**UL Japan, Inc.**

**Shonan EMC Lab.**

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**Frequency Stability**

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room  
 Date July 9, 2010  
 Temperature / Humidity 23deg.C , 61%  
 Engineer Kenichi Adachi  
 Mode Transmitting

Test Condition		Test Timing	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit [+/- ppm]	Margin [ppm]
deg.C	Volts						
20deg.C	4.5V (Vmin)	Power on	1396.261443	-0.001057	-0.76	2.50	1.74
		on 2min.	1396.261444	-0.001056	-0.76	2.50	1.74
		on 5min.	1396.261446	-0.001054	-0.75	2.50	1.75
		on 10min.	1396.261448	-0.001052	-0.75	2.50	1.75
	5V (Vnom)	Power on	1396.261455	-0.001045	-0.75	2.50	1.75
		on 2min.	1396.261453	-0.001047	-0.75	2.50	1.75
		on 5min.	1396.261450	-0.001050	-0.75	2.50	1.75
		on 10min.	1396.261447	-0.001053	-0.75	2.50	1.75
	5.5V (Vmax)	Power on	1396.261399	-0.001101	-0.79	2.50	1.71
		on 2min.	1396.261395	-0.001105	-0.79	2.50	1.71
		on 5min.	1396.261393	-0.001107	-0.79	2.50	1.71
		on 10min.	1396.261390	-0.001110	-0.79	2.50	1.71
50deg.C.	5V	Power on	1396.260889	-0.001611	-1.15	2.50	1.35
		on 2min.	1396.260888	-0.001612	-1.15	2.50	1.35
		on 5min.	1396.260886	-0.001614	-1.16	2.50	1.34
		on 10min.	1396.260879	-0.001621	-1.16	2.50	1.34
40deg.C.		Power on	1396.260968	-0.001532	-1.10	2.50	1.40
		on 2min.	1396.260966	-0.001534	-1.10	2.50	1.40
		on 5min.	1396.260963	-0.001537	-1.10	2.50	1.40
		on 10min.	1396.260958	-0.001542	-1.10	2.50	1.40
30deg.C.		Power on	1396.261133	-0.001367	-0.98	2.50	1.52
		on 2min.	1396.261129	-0.001371	-0.98	2.50	1.52
		on 5min.	1396.261124	-0.001376	-0.99	2.50	1.51
		on 10min.	1396.261114	-0.001386	-0.99	2.50	1.51
20deg.C.	Power on	1396.261455	-0.001045	-0.75	2.50	1.75	
	on 2min.	1396.261453	-0.001047	-0.75	2.50	1.75	
	on 5min.	1396.261450	-0.001050	-0.75	2.50	1.75	
	on 10min.	1396.261447	-0.001053	-0.75	2.50	1.75	
10deg.C.	Power on	1396.261605	-0.000895	-0.64	2.50	1.86	
	on 2min.	1396.261608	-0.000892	-0.64	2.50	1.86	
	on 5min.	1396.261613	-0.000887	-0.64	2.50	1.86	
	on 10min.	1396.261618	-0.000882	-0.63	2.50	1.87	
0deg.C.	Power on	1396.261711	-0.000789	-0.57	2.50	1.93	
	on 2min.	1396.261714	-0.000786	-0.56	2.50	1.94	
	on 5min.	1396.261715	-0.000785	-0.56	2.50	1.94	
	on 10min.	1396.261715	-0.000785	-0.56	2.50	1.94	
-10deg.C.	Power on	1396.261748	-0.000752	-0.54	2.50	1.96	
	on 2min.	1396.261750	-0.000750	-0.54	2.50	1.96	
	on 5min.	1396.261751	-0.000749	-0.54	2.50	1.96	
	on 10min.	1396.261752	-0.000748	-0.54	2.50	1.96	
-20deg.C	Power on	1396.261816	-0.000684	-0.49	2.50	2.01	
	on 2min.	1396.261832	-0.000668	-0.48	2.50	2.02	
	on 5min.	1396.261838	-0.000662	-0.47	2.50	2.03	
	on 10min.	1396.261842	-0.000658	-0.47	2.50	2.03	

Limit : 1396.2625 MHz +/-0.00025 % (+/- 2.5ppm) = +/- 0.003491 MHz

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**Frequency Stability**

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room  
 Date July 9, 2010  
 Temperature / Humidity 23deg.C , 61%  
 Engineer Kenichi Adachi  
 Mode Transmitting

Test Condition deg.C	Volts	Test Timing	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit [+/- ppm]	Margin [ppm]
20deg.C	4.5V (Vmin)	Power on	1396.986445	-0.001055	-0.76	2.50	1.74
		on 2min.	1396.986446	-0.001054	-0.75	2.50	1.75
		on 5min.	1396.986448	-0.001052	-0.75	2.50	1.75
		on 10min.	1396.986450	-0.001050	-0.75	2.50	1.75
	5V (Vnom)	Power on	1396.986444	-0.001056	-0.76	2.50	1.74
		on 2min.	1396.986443	-0.001057	-0.76	2.50	1.74
		on 5min.	1396.986440	-0.001060	-0.76	2.50	1.74
		on 10min.	1396.986436	-0.001064	-0.76	2.50	1.74
	5.5V (Vmax)	Power on	1396.986445	-0.001055	-0.76	2.50	1.74
		on 2min.	1396.986430	-0.001070	-0.77	2.50	1.73
		on 5min.	1396.986421	-0.001079	-0.77	2.50	1.73
		on 10min.	1396.986402	-0.001098	-0.79	2.50	1.71
50deg.C.	5V	Power on	1396.985875	-0.001625	-1.16	2.50	1.34
		on 2min.	1396.985875	-0.001625	-1.16	2.50	1.34
		on 5min.	1396.985874	-0.001626	-1.16	2.50	1.34
		on 10min.	1396.985869	-0.001631	-1.17	2.50	1.33
40deg.C.		Power on	1396.985952	-0.001548	-1.11	2.50	1.39
		on 2min.	1396.985951	-0.001549	-1.11	2.50	1.39
		on 5min.	1396.985950	-0.001550	-1.11	2.50	1.39
		on 10min.	1396.985946	-0.001554	-1.11	2.50	1.39
30deg.C.		Power on	1396.986110	-0.001390	-0.99	2.50	1.51
		on 2min.	1396.986109	-0.001391	-1.00	2.50	1.50
		on 5min.	1396.986106	-0.001394	-1.00	2.50	1.50
		on 10min.	1396.986102	-0.001398	-1.00	2.50	1.50
20deg.C.	Power on	1396.986444	-0.001056	-0.76	2.50	1.74	
	on 2min.	1396.986443	-0.001057	-0.76	2.50	1.74	
	on 5min.	1396.986440	-0.001060	-0.76	2.50	1.74	
	on 10min.	1396.986436	-0.001064	-0.76	2.50	1.74	
10deg.C.	Power on	1396.986616	-0.000884	-0.63	2.50	1.87	
	on 2min.	1396.986619	-0.000881	-0.63	2.50	1.87	
	on 5min.	1396.986621	-0.000879	-0.63	2.50	1.87	
	on 10min.	1396.986625	-0.000875	-0.63	2.50	1.87	
0deg.C.	Power on	1396.986713	-0.000787	-0.56	2.50	1.94	
	on 2min.	1396.986714	-0.000786	-0.56	2.50	1.94	
	on 5min.	1396.986715	-0.000785	-0.56	2.50	1.94	
	on 10min.	1396.986715	-0.000785	-0.56	2.50	1.94	
-10deg.C.	Power on	1396.986748	-0.000752	-0.54	2.50	1.96	
	on 2min.	1396.986751	-0.000749	-0.54	2.50	1.96	
	on 5min.	1396.986752	-0.000748	-0.54	2.50	1.96	
	on 10min.	1396.986753	-0.000747	-0.53	2.50	1.97	
-20deg.C	Power on	1396.986838	-0.000662	-0.47	2.50	2.03	
	on 2min.	1396.986951	-0.000549	-0.39	2.50	2.11	
	on 5min.	1396.986958	-0.000542	-0.39	2.50	2.11	
	on 10min.	1396.986963	-0.000537	-0.38	2.50	2.12	

Limit : 1396.9875 MHz +/-0.00025 % (+/- 2.5ppm) = +/- 0.003492 MHz

**UL Japan, Inc.**

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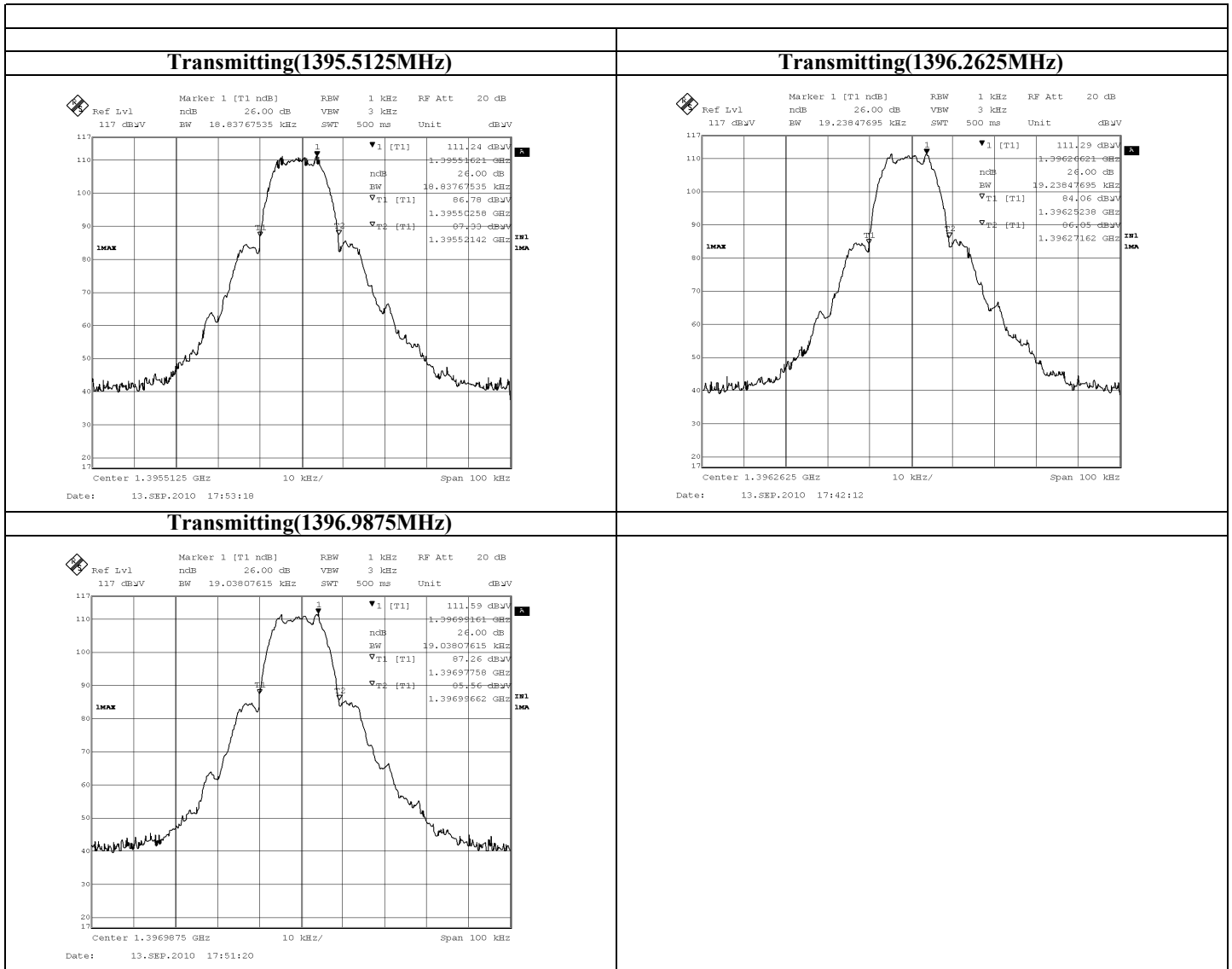
**-26dB Bandwidth**

Test place                      UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room  
Date                               September 13, 2010  
Temperature / Humidity       26 deg.C , 57%  
Engineer                        Kenichi Adachi  
Mode                              Transmitting

Freq. [MHz]	-26dB Bandwidth [kHz]
1395.5125	18.838
1396.2625	19.238
1396.9875	19.038

No limit applies to -26dB Bandwidth.

### -26dB Bandwidth



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**Shonan EMC Lab.**

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**Field Strength(Electric Field Strength of Fundamental Emission ,  
Spurious Emission and Band Edge Compliance)**

Test place                   UL Japan, Inc. Shonan EMC Lab.                   No.3 Semi Anechoic Chamber  
Date                           September 13, 2010  
Temperature / Humidity    26 deg.C , 57%  
Engineer                    Kenichi Adachi  
Mode                         Tx,                    1395.5125 MHz

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.	84.002	QP	45.8	7.2	7.1	32.1	28.0	46.0	18.0	221	239	
Hori.	100.003	QP	40.6	10.2	7.2	32.1	25.9	46.0	20.1	299	241	
Hori.	117.598	QP	46.4	13.0	7.3	32.1	34.6	46.0	11.4	281	240	
Hori.	130.056	QP	32.4	14.0	7.4	32.1	21.7	46.0	24.3	206	225	
Hori.	579.249	QP	32.1	18.6	9.6	31.9	28.4	46.0	17.6	100	46	
Hori.	910.344	QP	35.8	21.9	10.7	30.9	37.5	46.0	8.5	100	86	
Hori.	1395.000	AV	106.1	24.7	12.5	40.0	103.3	53.9	-	100	70	(Refer to Marker Delta Method table)
Hori.	1395.5125	AV	112.7	24.7	12.5	40.0	109.9	117.3	7.4	100	70	Carrier
Hori.	2791.025	AV	45.4	28.3	6.1	40.6	39.2	53.9	14.7	100	105	
Hori.	4186.538	AV	49.5	30.3	5.1	40.6	44.3	53.9	9.6	121	279	
Hori.	4681.795	AV	51.9	31.2	5.4	40.2	48.3	53.9	5.6	108	276	
Hori.	13955.120	AV	32.3	40.5	9.4	37.5	44.7	53.9	9.2	100	0	
Vert.	84.108	QP	35.9	7.2	7.1	32.1	18.1	46.0	27.9	100	99	
Vert.	100.003	QP	35.6	10.2	7.2	32.1	20.9	46.0	25.1	100	72	
Vert.	117.598	QP	41.3	13.0	7.3	32.1	29.5	46.0	16.5	228	156	
Vert.	130.056	QP	35.6	14.0	7.4	32.1	24.9	46.0	21.1	100	110	
Vert.	579.249	QP	31.5	18.6	9.6	31.9	27.8	46.0	18.2	237	27	
Vert.	910.344	QP	33.2	21.9	10.7	30.9	34.9	46.0	11.1	100	118	
Vert.	1395.000	AV	106.8	24.7	12.5	40.0	104.0	53.9	-	108	353	(Refer to Marker Delta Method table)
Vert.	1395.5125	AV	113.4	24.7	12.5	40.0	110.6	117.3	6.7	108	353	Carrier
Vert.	2791.025	AV	42.2	28.3	6.1	40.6	36.0	53.9	17.9	100	277	
Vert.	4186.538	AV	47.0	30.3	5.1	40.6	41.8	53.9	12.1	103	355	
Vert.	4681.795	AV	45.1	31.2	5.4	40.2	41.5	53.9	12.4	105	275	
Vert.	13955.120	AV	32.3	40.5	9.4	37.5	44.7	53.9	9.2	100	0	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amplifier)

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

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

**Marker Delta Method(Test distance 3meters)**

	Polarity	AV					
		Hor.		Ver.			
		[dBuV]	[dBuV/m]	[dBuV]	[dBuV/m]		
Step	RBW	VBW	Reading	Result	Reading	Result	
Step1	Fundamental(1395.5125MHz)	1M / 3M of 10Hz	-	112.7	109.9	113.4	110.6
Step2	Fundamental(1395.5125MHz)	20k/100k	-	112.9	110.1	113.3	110.5
	Band-edge(1395MHz)	20k/100k	-	35.2	32.4	36.6	33.8
Step3	Amplitude delta	-	-	77.8	77.8	76.7	76.7
	Field strength of band-edge	-	-	-	32.1	-	33.9
	Limit	-	-	-	53.9	-	53.9
	Margin	-	-	-	21.8	-	20.0

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amplifier)

\*1 Amplitude delta = Fundamental(RBW:20kHz,VBW:100kHz) - Band-edge(RBW:20kHz,VBW:100kHz)

\*2 Field strength of band-edge = Fundamental(AV) - Amplitude delta



**Field Strength(Electric Field Strength of Fundamental Emission ,  
Spurious Emission and Band Edge Compliance)**

Test place                   UL Japan, Inc. Shonan EMC Lab.                   No.3 Semi Anechoic Chamber  
Date                           September 13, 2010  
Temperature / Humidity    26 deg.C , 57%  
Engineer                    Kenichi Adachi  
Mode                         Tx,                    1396.2625 MHz

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.	84.003	QP	45.7	7.2	7.1	32.1	27.9	46.0	18.1	218	233	
Hori.	100.004	QP	40.3	10.2	7.2	32.1	25.6	46.0	20.4	302	238	
Hori.	117.599	QP	46.6	13.0	7.3	32.1	34.8	46.0	11.2	276	231	
Hori.	579.247	QP	32.9	18.6	9.6	31.9	29.2	46.0	16.8	105	51	
Hori.	910.343	QP	35.9	21.9	10.7	30.9	37.6	46.0	8.4	100	89	
Hori.	1396.2625	AV	113.0	24.7	12.5	40.0	110.2	117.3	7.1	102	72	Carrier
Hori.	2792.525	AV	45.5	28.3	6.1	40.6	39.3	53.9	14.6	101	103	
Hori.	4188.788	AV	49.1	30.3	5.1	40.6	43.9	53.9	10.0	115	278	
Hori.	4681.821	AV	48.9	31.2	5.4	40.2	45.3	53.9	8.6	108	276	
Hori.	13962.630	AV	32.4	40.6	9.4	37.5	44.9	53.9	9.0	108	276	
Vert.	84.003	QP	35.6	7.2	7.1	32.1	17.8	46.0	28.2	100	101	
Vert.	100.004	QP	35.4	10.2	7.2	32.1	20.7	46.0	25.3	100	70	
Vert.	117.599	QP	40.2	13.0	7.3	32.1	28.4	46.0	17.6	224	161	
Vert.	579.247	QP	31.3	18.6	9.6	31.9	27.6	46.0	18.4	233	22	
Vert.	910.343	QP	33.0	21.9	10.7	30.9	34.7	46.0	11.3	100	121	
Vert.	1396.2625	AV	113.4	24.7	12.5	40.0	110.6	117.3	6.7	107	357	Carrier
Vert.	2792.525	AV	42.3	28.3	6.1	40.6	36.1	53.9	17.8	102	277	
Vert.	4188.788	AV	47.5	30.3	5.1	40.6	42.3	53.9	11.6	102	349	
Vert.	4681.821	AV	45.2	31.2	5.4	40.2	41.6	53.9	12.3	101	274	
Vert.	13962.630	AV	32.5	40.6	9.4	37.5	45.0	53.9	8.9	101	274	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amplifier)

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

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

**Field Strength(Electric Field Strength of Fundamental Emission ,  
Spurious Emission and Band Edge Compliance)**

Test place                   UL Japan, Inc. Shonan EMC Lab.                   No.3 Semi Anechoic Chamber  
Date                           September 13, 2010  
Temperature / Humidity    26 deg.C , 57%  
Engineer                    Kenichi Adachi  
Mode                         Tx,                   1396.9875 MHz

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.	84.002	QP	45.5	7.2	7.1	32.1	27.7	46.0	18.3	222	235	
Hori.	100.002	QP	40.2	10.2	7.2	32.1	25.5	46.0	20.5	303	242	
Hori.	117.601	QP	46.3	13.0	7.3	32.1	34.5	46.0	11.5	271	243	
Hori.	579.248	QP	32.5	18.6	9.6	31.9	28.8	46.0	17.2	100	43	
Hori.	910.342	QP	35.5	21.9	10.7	30.9	37.2	46.0	8.8	100	91	
Hori.	1396.9875	AV	113.2	24.7	12.5	40.0	110.4	117.3	6.9	101	69	Carrier
Hori.	1400.000	AV	39.9	24.8	12.5	40.0	37.2	53.9	16.7	101	69	
Hori.	2793.375	AV	45.5	28.3	6.1	40.6	39.3	53.9	14.6	102	100	
Hori.	4190.063	AV	49.3	30.3	5.1	40.6	44.1	53.9	9.8	118	281	
Hori.	4681.191	AV	49.9	31.2	5.4	40.2	46.3	53.9	7.6	109	274	
Hori.	13969.875	AV	32.4	40.6	9.4	37.5	44.9	53.9	9.0	100	0	
Vert.	84.002	QP	35.7	7.2	7.1	32.1	17.9	46.0	28.1	100	93	
Vert.	100.002	QP	35.5	10.2	7.2	32.1	20.8	46.0	25.2	100	81	
Vert.	117.601	QP	40.8	13.0	7.3	32.1	29.0	46.0	17.0	222	153	
Vert.	579.248	QP	31.1	18.6	9.6	31.9	27.4	46.0	18.6	231	19	
Vert.	910.342	QP	32.9	21.9	10.7	30.9	34.6	46.0	11.4	100	116	
Vert.	1396.9875	AV	113.5	24.7	12.5	40.0	110.7	117.3	6.6	110	355	Carrier
Vert.	1400.000	AV	40.1	24.8	12.5	40.0	37.4	53.9	16.5	110	355	
Vert.	2793.375	AV	42.4	28.3	6.1	40.6	36.2	53.9	17.7	104	279	
Vert.	4190.063	AV	47.4	30.3	5.1	40.6	42.2	53.9	11.7	102	354	
Vert.	4681.191	AV	45.1	31.2	5.4	40.2	41.5	53.9	12.4	100	277	
Vert.	13969.875	AV	32.3	40.6	9.4	37.5	44.8	53.9	9.1	100	0	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amplifier)

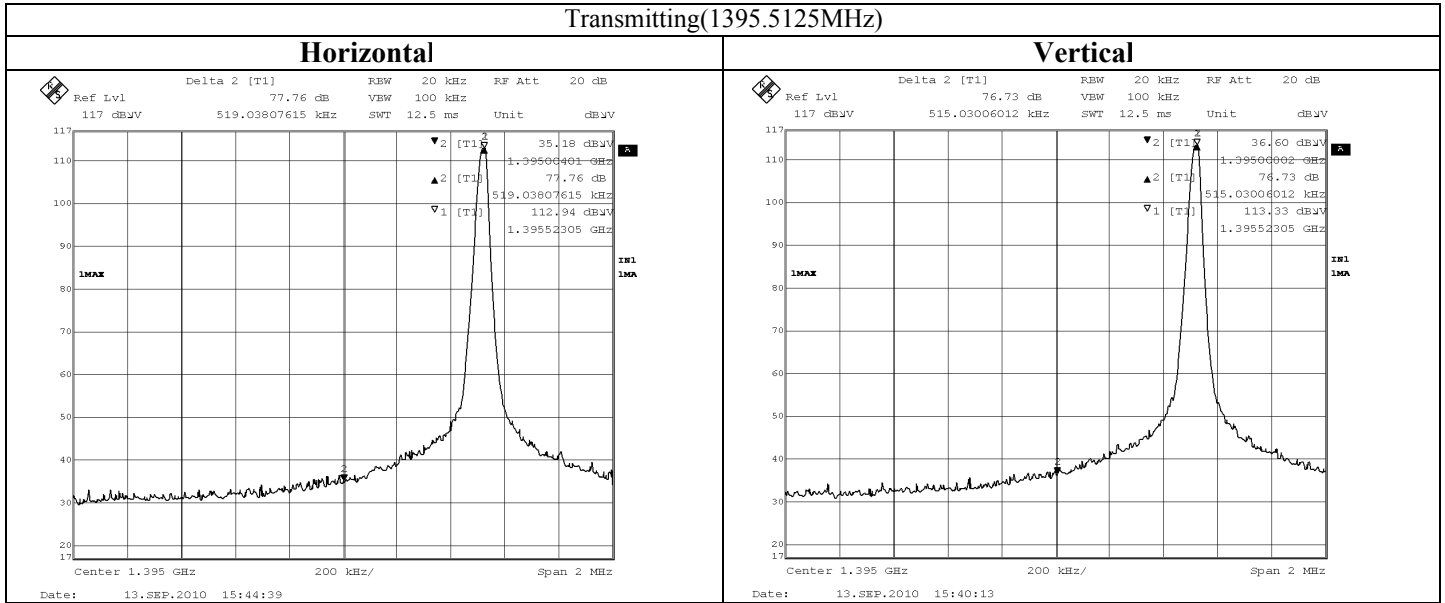
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

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

**Field Strength(Electric Field Strength of Fundamental Emission ,  
Spurious Emission and Band Edge Compliance)**

Band Edge compliance(for Marker Delta Method)

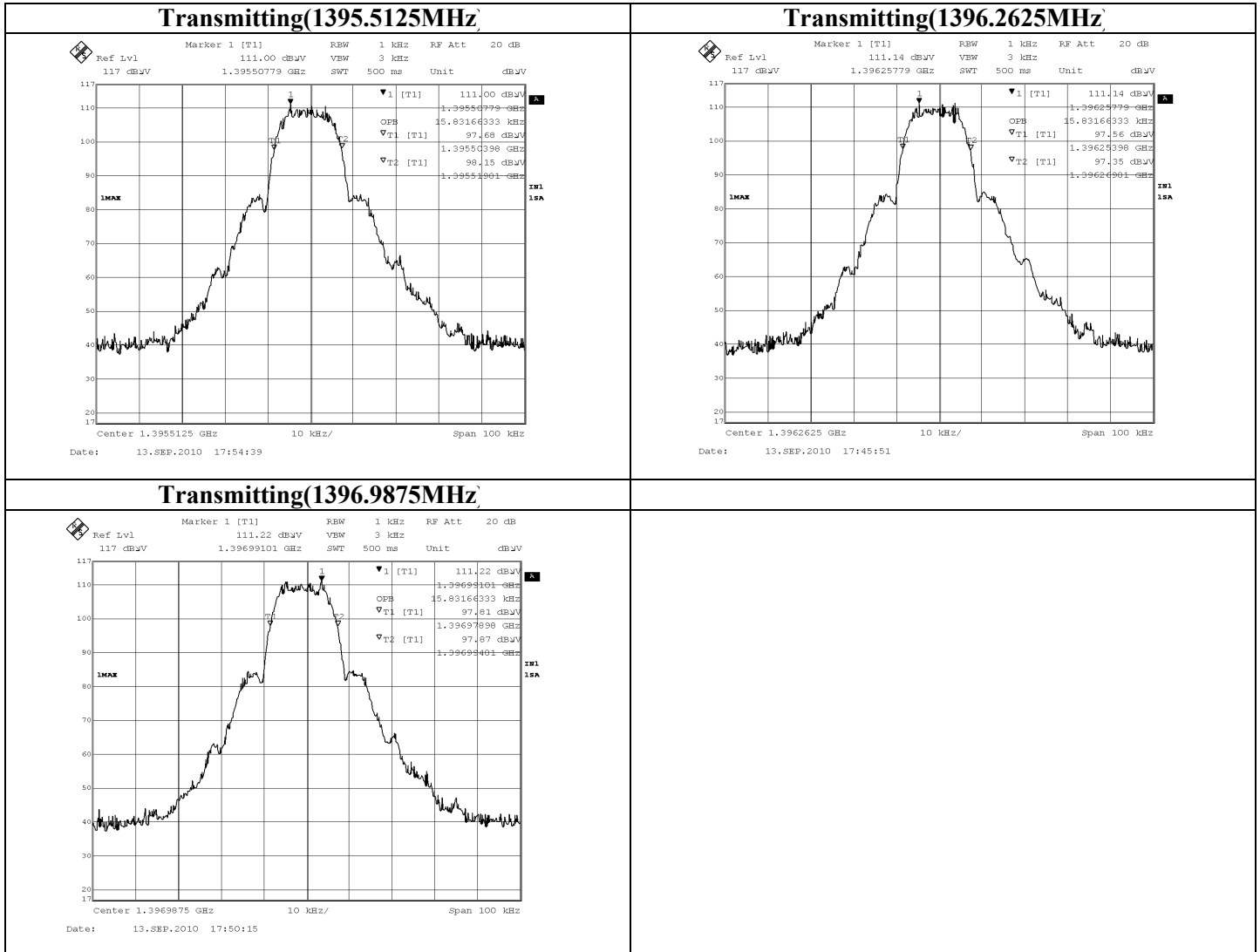
Transmitting(1395.5125MHz)



**UL Japan, Inc.**  
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**99% Occupied Bandwidth**



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Test Report No :30KE0222-SH-A

**APPENDIX 3  
Test Instruments**

**EMI test equipment**

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
SFC-01	Microwave Counter	Agilent	53151A	US40511493	Freq	2010/02/18 * 12
SSCA-01	Search coil	LANGER	RF-R 400-1	02-0634	Freq	Pre Check
SCH-01	Temperature and Humidity Chamber	Espec	PL-1KT	14020837	Freq	2010/04/24 * 12
SOS-09	Humidity Indicator	A&D	AD-5681	4061484	Freq	2010/02/17 * 12
STS-05	Digital Hitester	Hioki	3805-50	080997828	Freq	2010/03/26 * 12
SAF-06	Pre Amplifier	TOYO Corporation	TPA0118-36	1440491	RE	2010/03/09 * 12
SCC-G03	Coaxial Cable	Suhner	SUCOFLEX 104A	46499/4A	RE	2010/04/16 * 12
SCC-G23	Coaxial Cable	Suhner	SUCOFLEX 104	297342/4	RE	2010/05/27 * 12
SAT10-04	Attenuator(above1GHz)	Agilent	8493C-010	74863	RE	2010/03/05 * 12
SFL-02	Highpass Filter	MICRO-TRONICS	HPM50111	051	RE	2009/12/04 * 12
SHA-03	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-739	RE	2010/08/17 * 12
SOS-05	Humidity Indicator	A&D	AD-5681	4062518	RE	2010/02/09 * 12
STR-03	Test Receiver	Rohde & Schwarz	ES140	100054/040	RE, CE	2010/07/21 * 12
SJM-10	Measure	PROMART	SEN1935	-	RE, CE	-
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV	-	RE, CE	-
SAF-03	Pre Amplifier	SONOMA	310N	290213	RE	2010/02/06 * 12
SAT6-03	Attenuator	JFW	50HF-006N	-	RE	2010/02/06 * 12
SBA-03	Biconical Antenna	Schwarzbeck	BBA9106	91032666	RE	2010/03/22 * 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	2010/04/02 * 12
SLA-03	Logperiodic Antenna	Schwarzbeck	UHALP9108A	UHALP 9108-A 0901	RE	2010/03/22 * 12
SAEC-03(NSA)	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	RE	2009/09/18 * 12
SCC-C9/C10/SRSE-03	Coaxial Cable&RF Selector	Suhner/Suhner/TOYO	RG223U/141PE/NS4906	-/0901-271(RF Selector)	CE	2010/04/02 * 12
SLS-05	LISN	Rohde & Schwarz	ENV216	100516	CE	2010/02/19 * 12
SAT3-06	Attenuator	JFW	50HF-003N	-	CE	2010/02/06 * 12
SOS-06	Humidity Indicator	A&D	AD-5681	4062118	CE	2010/02/17 * 12
STM-05	Terminator	TME	CT-01 BP	-	CE	2010/01/08 * 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 :

- CE: Conducted emission ,
- RE: Radiated emission ,
- Freq: Frequency Stability ,