
APPENDIX 2: Data of EMI test

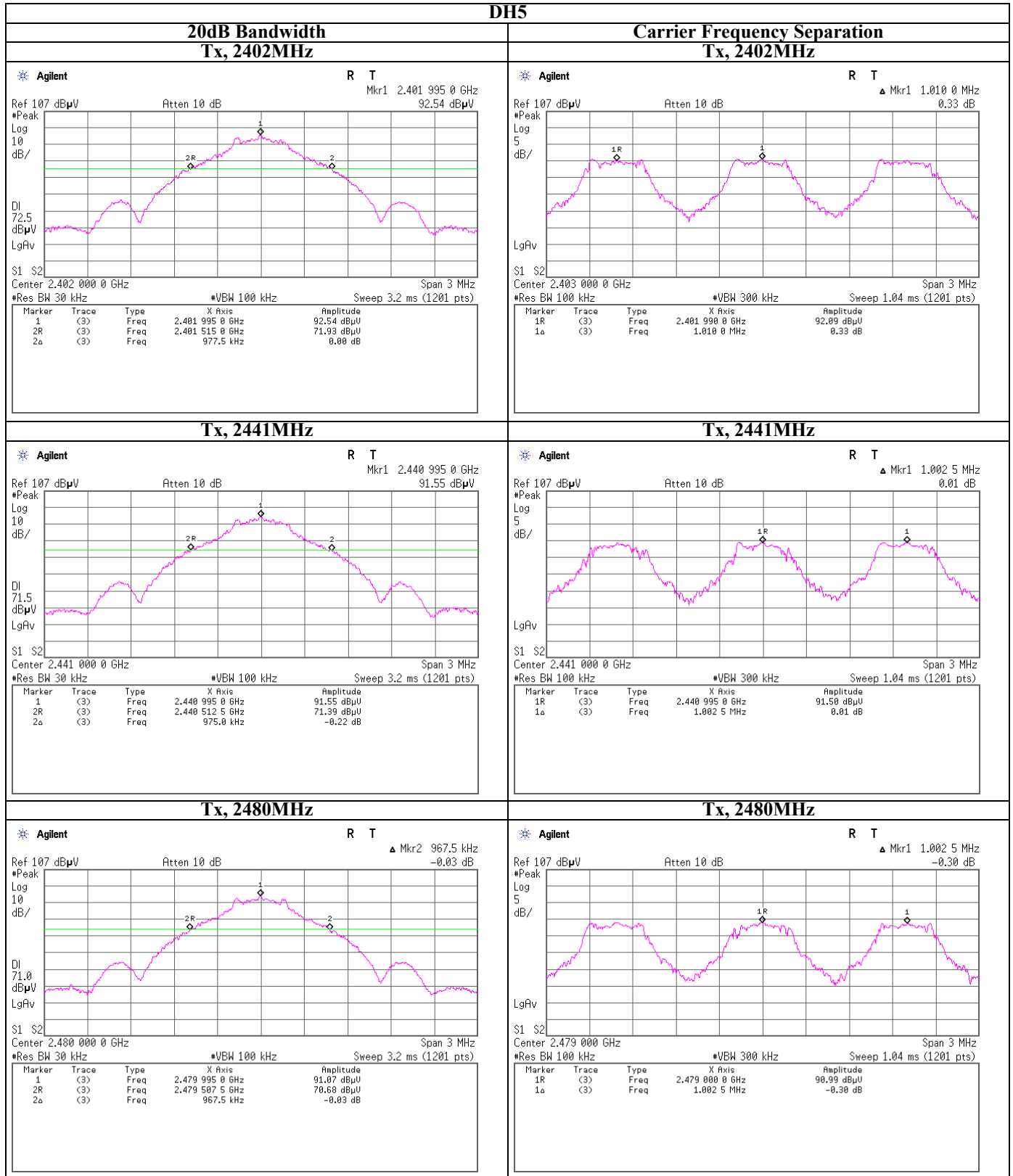
20dB Bandwidth and Carrier Frequency Separation

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
Date July 1,2010
Temperature / Humidity 26deg.C. , 52%
Engineer Shinichi Takano
Mode Tx,

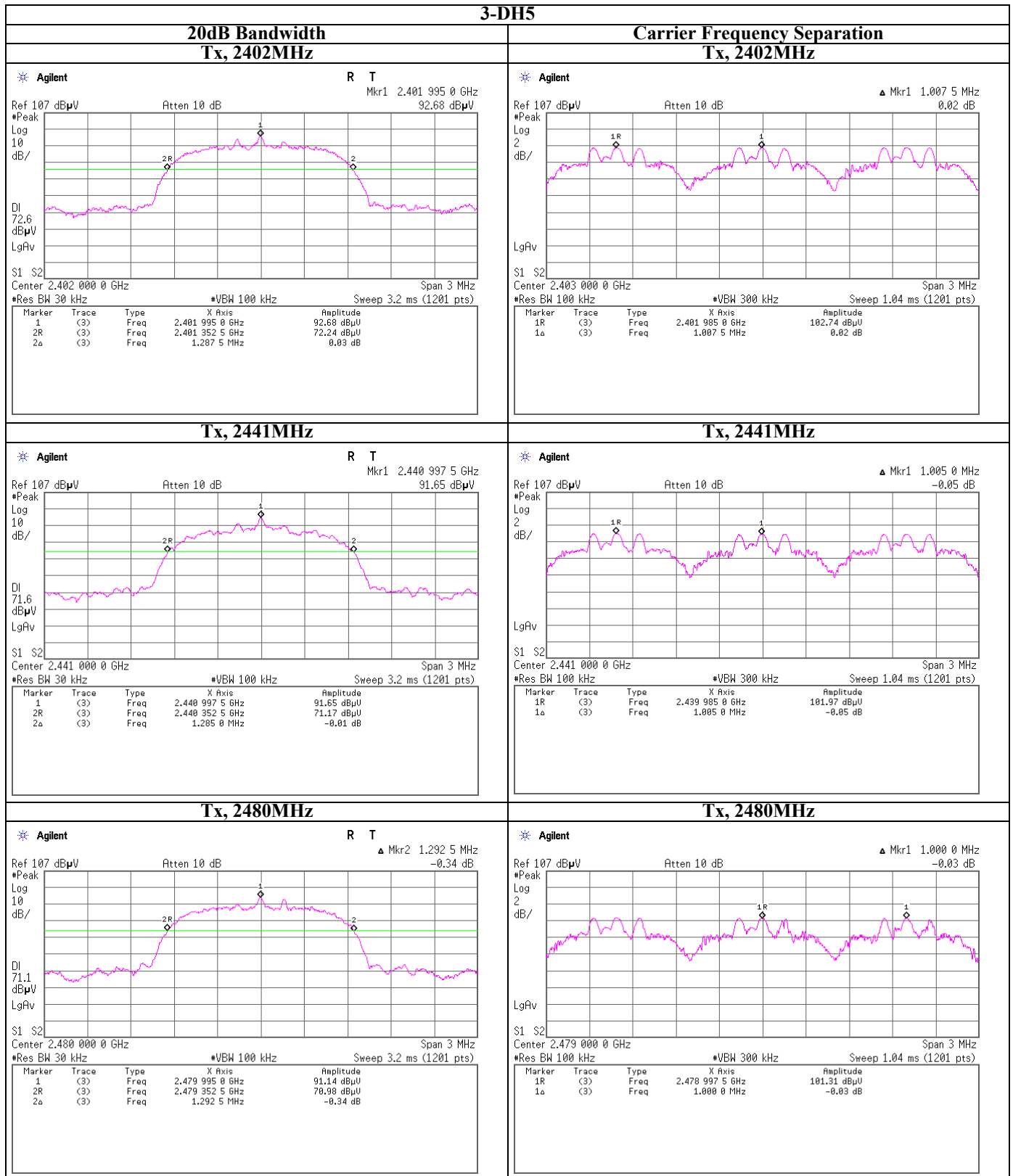
Mode	Freq. [MHz]	20dB Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit for Carrier Frequency Separation [MHz]
DH5	2402.0	0.978	1.010	≥ 0.652
DH5	2441.0	0.975	1.003	≥ 0.650
DH5	2480.0	0.968	1.003	≥ 0.645
3DH5	2402.0	1.288	1.008	≥ 0.858
3DH5	2441.0	1.285	1.005	≥ 0.857
3DH5	2480.0	1.293	1.000	≥ 0.862
Inquiry	2441.0	0.768	2.004	≥ 0.512

Limit: Two-thirds of 20dB Bandwidth or 25kHz (whichever is greater).
No limit applies to 20dB Bandwidth.

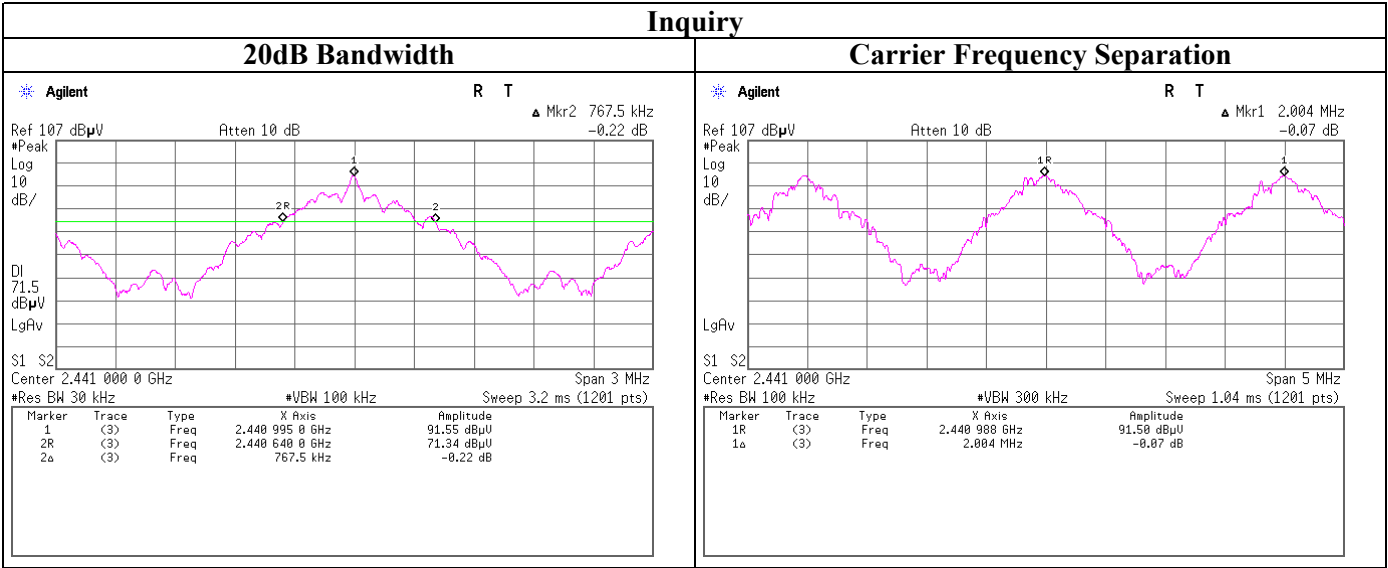
20dB Bandwidth and Carrier Frequency Separation



20dB Bandwidth and Carrier Frequency Separation



20dB Bandwidth and Carrier Frequency Separation



Number of Hopping Frequency (Conducted)

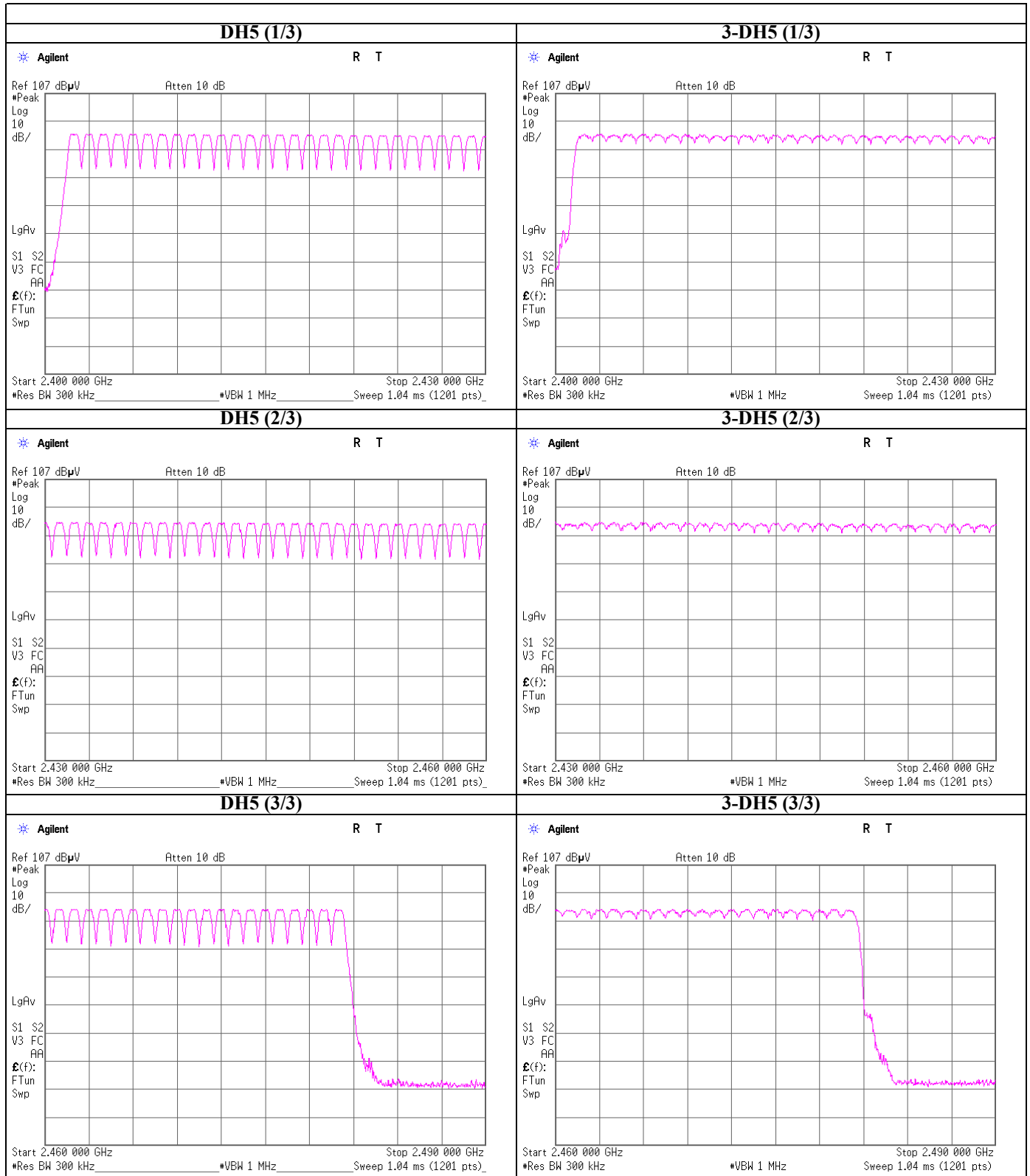
Test place UL Japan, Inc. Shonan EMC La No.5 Shielded Room
Date July 1,2010
Temperature / Humidity 26deg.C. , 52%
Engineer Shinichi Takano
Mode Tx,

Mode	Number of Channel [times]	Limit [times]
DH5	79	>=15
3-DH5	79	>=15
Inquiry	32	>=15

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

Number of Hopping Frequency



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

Dwell Time (Conducted)

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
 Date July 1,2010
 Temperature / Humidity 26deg.C. , 52%
 Engineer Shinichi Takano
 Mode Tx,

Mode	Number of transmission in a 31.6(79 Hopping x 0.4) / 12.8(32 Hopping x 0.4)second period	Length of transmission time [msec]	Result [msec]	Limit [msec]
DH1	51.2 times / 5 sec. x 31.6 sec. = 324 times	0.454	147	400
DH3	25.4 times / 5 sec. x 31.6 sec. = 161 times	1.712	276	400
DH5	17.4 times / 5 sec. x 31.6 sec. = 110 times	2.960	326	400
3DH1	50.4 times / 5 sec. x 31.6 sec. = 319 times	0.450	143	400
3DH3	27.4 times / 5 sec. x 31.6 sec. = 174 times	1.705	297	400
3DH5	17.2 times / 5 sec. x 31.6 sec. = 109 times	2.957	322	400
Inquiry	100.0 times / 1 sec. x 12.8 sec. = 1280 times	0.142	182	400

Sample Calculation

Result = Number of transmission x Length of transmission time

*Average data of 5 tests.(except Inquiry)

Mode	Sampling [times]					Average [times]
	1	2	3	4	5	
DH1	51	50	51	52	52	51.2
DH3	28	26	23	25	25	25.4
DH5	18	21	14	15	19	17.4
3DH1	51	50	51	50	50	50.4
3DH3	28	28	27	27	27	27.4
3DH5	15	18	16	20	17	17.2

Sample Calculation

Average= Summation(Sampling 1 to 5) / 5

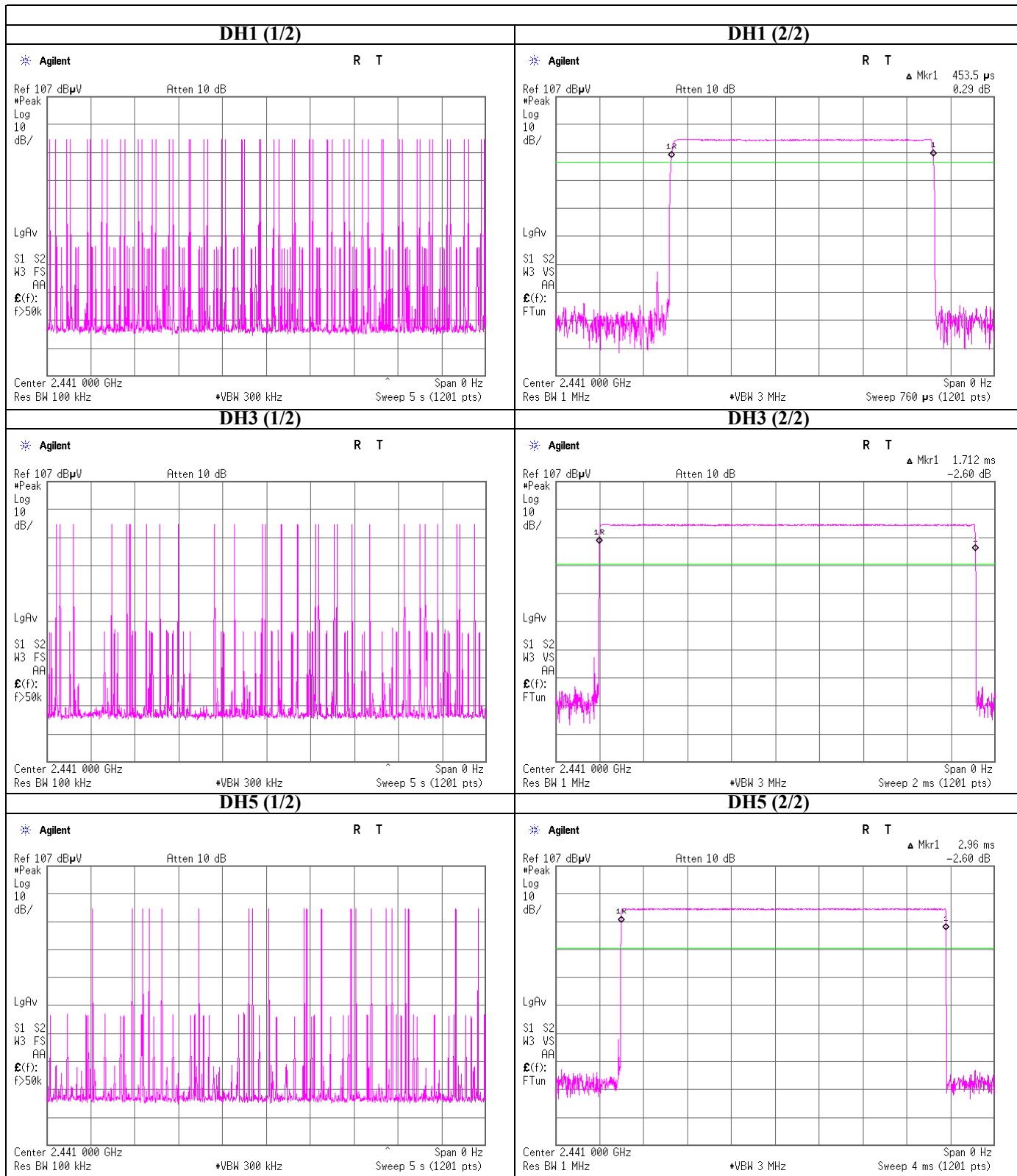
UL Japan, Inc.
Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

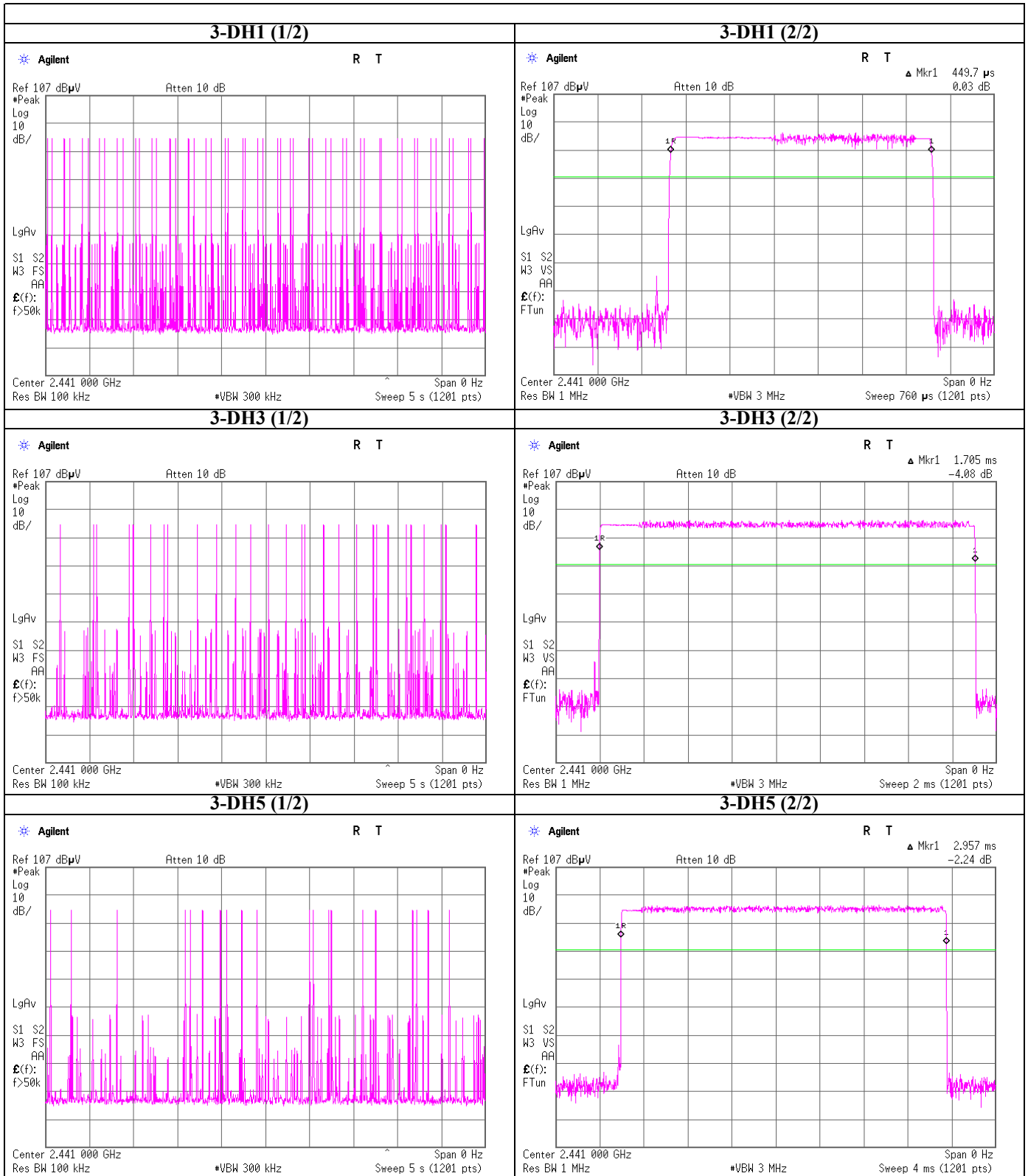
Dwell time



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

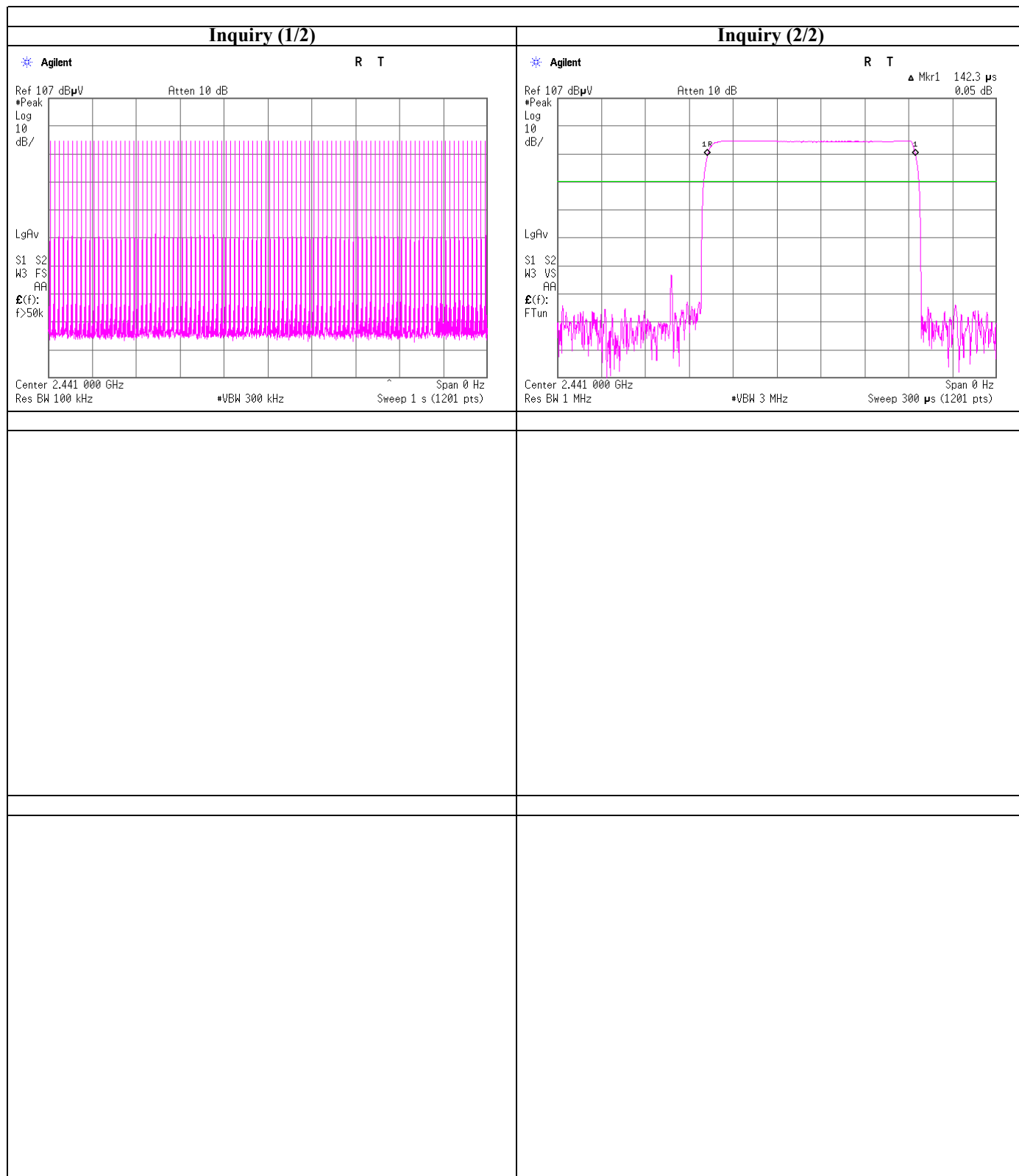
Dwell time



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

Dwell time



Peak Output Power (Conducted)

Test place : UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
 Date : July 1, 2010
 Temperature / Humidity : 26deg.C. , 52%
 Engineer : Shinichi Takano
 Mode : Tx,

BDR (DH5)

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2402.0	-4.21	0.98	0.00	-3.23	0.48	20.97	125	24.20
Mid	2441.0	-5.45	0.98	0.00	-4.47	0.36	20.97	125	25.44
High	2480.0	-5.81	0.99	0.00	-4.82	0.33	20.97	125	25.79

EDR (2-DH5)

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2402.0	-2.46	0.98	0.00	-1.48	0.71	20.97	125	22.45
Mid	2441.0	-3.74	0.98	0.00	-2.76	0.53	20.97	125	23.73
High	2480.0	-4.05	0.99	0.00	-3.06	0.49	20.97	125	24.03

EDR (3-DH5)

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2402.0	-2.08	0.98	0.00	-1.10	0.78	20.97	125	22.07
Mid	2441.0	-3.38	0.98	0.00	-2.40	0.58	20.97	125	23.37
High	2480.0	-3.68	0.99	0.00	-2.69	0.54	20.97	125	23.66

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Atten. Loss

* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

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

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

Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date Jun 28, 2010 Jun 30, 2010
 Temperature / Humidity 27deg.C. , 45% 25deg.C. , 52%
 Engineer Shinichi Takano Shinichi Takano
 Mode Tx, 2402 MHz
 Bluetooth, DH5,

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.	57.288	QP	55.8	8.7	6.8	32.1	39.2	40.0	0.8	372	35	
Hori.	60.001	QP	56.9	7.8	6.8	32.1	39.4	40.0	0.6	338	185	
Hori.	85.924	QP	52.2	7.5	7.1	32.1	34.7	40.0	5.3	232	30	
Hori.	182.111	QP	49.9	16.2	7.8	32.0	41.9	43.5	1.6	181	329	
Hori.	185.017	QP	50.9	16.3	7.8	32.0	43.0	43.5	0.5	181	318	
Hori.	240.004	QP	49.9	17.3	8.1	32.0	43.3	46.0	2.7	141	142	
Hori.	323.581	QP	45.7	14.5	8.5	31.9	36.8	46.0	9.2	100	266	
Hori.	1631.980	PK	50.9	25.3	12.7	40.1	48.8	74.0	25.2	100	121	
Hori.	2390.000	PK	47.1	27.6	13.3	40.2	47.8	74.0	26.2	100	352	
Hori.	2400.000	PK	50.0	27.6	13.3	40.2	50.7	74.0	23.3	100	352	
Hori.	4804.000	PK	51.4	30.6	5.5	40.1	47.4	74.0	26.6	115	58	
Hori.	7206.000	PK	47.3	36.0	6.7	38.3	51.7	74.0	22.3	100	0	
Hori.	9608.000	PK	45.2	38.4	7.8	37.3	54.1	74.0	19.9	100	0	
Hori.	12010.000	PK	45.6	39.7	9.0	38.4	55.9	74.0	18.1	100	0	
Hori.	1631.980	AV	44.2	25.3	12.7	40.1	42.1	54.0	11.9	100	121	
Vert.	32.281	QP	40.8	17.2	6.6	32.1	32.5	40.0	7.5	100	257	
Vert.	38.706	QP	44.2	15.1	6.6	32.1	33.8	40.0	6.2	100	257	
Vert.	48.003	QP	49.6	11.7	6.7	32.1	35.9	40.0	4.1	100	282	
Vert.	50.008	QP	48.2	11.0	6.8	32.1	33.9	40.0	6.1	100	279	
Vert.	60.001	QP	56.0	7.8	6.8	32.1	38.5	40.0	1.5	100	254	
Vert.	171.845	QP	49.3	15.8	7.7	32.0	40.8	43.5	2.7	100	43	
Vert.	185.017	QP	46.5	16.3	7.8	32.0	38.6	43.5	4.9	100	26	
Vert.	240.004	QP	45.2	17.3	8.1	32.0	38.6	46.0	7.4	100	143	
Vert.	323.581	QP	48.0	14.5	8.5	31.9	39.1	46.0	6.9	133	301	
Vert.	458.395	QP	43.0	16.9	9.1	31.9	37.1	46.0	8.9	100	337	
Vert.	1631.980	PK	51.4	25.3	12.7	40.1	49.3	74.0	24.7	100	124	
Vert.	2390.000	PK	47.0	27.6	13.3	40.2	47.7	74.0	26.3	100	301	
Vert.	2400.000	PK	53.1	27.6	13.3	40.2	53.8	74.0	20.2	100	301	
Vert.	4804.000	PK	49.6	30.6	5.5	40.1	45.6	74.0	28.4	100	270	
Vert.	7206.000	PK	47.3	36.0	6.7	38.3	51.7	74.0	22.3	100	0	
Vert.	9608.000	PK	45.5	38.4	7.8	37.3	54.4	74.0	19.6	100	0	
Vert.	12010.000	PK	46.0	39.7	9.0	38.4	56.3	74.0	17.7	100	0	
Vert.	1631.980	AV	44.5	25.3	12.7	40.1	42.4	54.0	11.6	100	124	

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).

Dwell time factor relaxation

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2390.000	AV	35.3	27.6	13.3	40.2	-24.7	11.3	54.0	42.7	
Hori.	2400.000	AV	37.2	27.6	13.3	40.2	-24.7	13.2	54.0	40.8	
Hori.	4804.000	AV	44.9	30.6	5.5	40.1	-24.7	16.2	54.0	37.8	
Hori.	7206.000	AV	35.8	36.0	6.7	38.3	-24.7	15.5	54.0	38.5	
Hori.	9608.000	AV	34.1	38.4	7.8	37.3	-24.7	18.3	54.0	35.7	
Hori.	12010.000	AV	34.5	39.7	9.0	38.4	-24.7	20.1	54.0	33.9	
Vert.	2390.000	AV	35.2	27.6	13.3	40.2	-24.7	11.2	54.0	42.8	
Vert.	2400.000	AV	39.1	27.6	13.3	40.2	-24.7	15.1	54.0	38.9	
Vert.	4804.000	AV	41.7	30.6	5.5	40.1	-24.7	13.0	54.0	41.0	
Vert.	7206.000	AV	35.9	36.0	6.7	38.3	-24.7	15.6	54.0	38.4	
Vert.	9608.000	AV	34.2	38.4	7.8	37.3	-24.7	18.4	54.0	35.6	
Vert.	12010.000	AV	34.7	39.7	9.0	38.4	-24.7	20.3	54.0	33.7	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter)
 - Gain(Amplifier) + Dwell time factor (Refer to page 33)

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

*No noise was detected above the 5th order harmonics.

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

Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
Date Jun 29, 2010 Jun 30, 2010
Temperature / Humidity 22deg.C. , 61% 25deg.C. , 52%
Engineer Shinichi Takano Shinichi Takano
Mode Tx, 2441 MHz
 Bluetooth, DH5,

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.	57.286	QP	56.1	8.7	6.8	32.1	39.5	40.0	0.5	349	29	
Hori.	60.004	QP	56.6	7.8	6.8	32.1	39.1	40.0	0.9	352	189	
Hori.	85.931	QP	51.8	7.5	7.1	32.1	34.3	40.0	5.7	218	30	
Hori.	182.112	QP	49.5	16.2	7.8	32.0	41.5	43.5	2.0	180	323	
Hori.	185.014	QP	51.0	16.3	7.8	32.0	43.1	43.5	0.4	166	324	
Hori.	239.994	QP	50.7	17.3	8.1	32.0	44.1	46.0	1.9	149	141	
Hori.	323.576	QP	45.4	14.5	8.5	31.9	36.5	46.0	9.5	100	276	
Hori.	1631.996	PK	54.0	25.3	12.7	40.1	51.9	74.0	22.1	105	217	
Hori.	4882.000	PK	49.7	30.9	5.6	40.0	46.2	74.0	27.8	100	56	
Hori.	7323.000	PK	45.5	36.0	6.9	38.5	49.9	74.0	24.1	100	0	
Hori.	9764.000	PK	43.7	38.4	7.8	37.4	52.5	74.0	21.5	100	0	
Hori.	12205.000	PK	44.2	39.7	9.1	38.1	54.9	74.0	19.1	100	0	
Hori.	1631.996	AV	46.2	25.3	12.7	40.1	44.1	54.0	9.9	105	217	
Vert.	32.810	QP	41.2	17.1	6.6	32.1	32.8	40.0	7.2	100	335	
Vert.	38.714	QP	44.1	15.1	6.6	32.1	33.7	40.0	6.3	100	228	
Vert.	48.005	QP	48.0	11.7	6.7	32.1	34.3	40.0	5.7	100	283	
Vert.	50.005	QP	46.9	11.0	6.8	32.1	32.6	40.0	7.4	100	284	
Vert.	60.003	QP	55.5	7.8	6.8	32.1	38.0	40.0	2.0	100	239	
Vert.	171.844	QP	49.4	15.8	7.7	32.0	40.9	43.5	2.6	100	57	
Vert.	185.017	QP	46.0	16.3	7.8	32.0	38.1	43.5	5.4	100	16	
Vert.	240.002	QP	44.1	17.3	8.1	32.0	37.5	46.0	8.5	100	128	
Vert.	323.576	QP	47.5	14.5	8.5	31.9	38.6	46.0	7.4	129	304	
Vert.	458.394	QP	42.5	16.9	9.1	31.9	36.6	46.0	9.4	100	332	
Vert.	1631.996	PK	51.1	25.3	12.7	40.1	49.0	74.0	25.0	100	134	
Vert.	4882.000	PK	49.2	30.9	5.6	40.0	45.7	74.0	28.3	100	235	
Vert.	7323.000	PK	44.6	36.0	6.9	38.5	49.0	74.0	25.0	100	0	
Vert.	9764.000	PK	43.5	38.4	7.8	37.4	52.3	74.0	21.7	100	0	
Vert.	12205.000	PK	44.8	39.7	9.1	38.1	55.5	74.0	18.5	100	0	
Vert.	1631.996	AV	44.8	25.3	12.7	40.1	42.7	54.0	11.3	100	134	

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).

Dwell time factor relaxation

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	4882.000	AV	43.4	30.9	5.6	40.0	-24.7	15.2	54.0	38.8	
Hori.	7323.000	AV	33.4	36.0	6.9	38.5	-24.7	13.1	54.0	40.9	
Hori.	9764.000	AV	32.2	38.4	7.8	37.4	-24.7	16.3	54.0	37.7	
Hori.	12205.000	AV	33.4	39.7	9.1	38.1	-24.7	19.4	54.0	34.6	
Vert.	4882.000	AV	42.8	30.9	5.6	40.0	-24.7	14.6	54.0	39.4	
Vert.	7323.000	AV	33.6	36.0	6.9	38.5	-24.7	13.3	54.0	40.7	
Vert.	9764.000	AV	32.3	38.4	7.8	37.4	-24.7	16.4	54.0	37.6	
Vert.	12205.000	AV	33.5	39.7	9.1	38.1	-24.7	19.5	54.0	34.5	

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

- Gain(Amplifier) + Dwell time factor (Refer to page 33)

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

*No noise was detected above the 5th order harmonics.

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

Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date Jun 29, 2010 Jun 30, 2010
 Temperature / Humidity 22deg.C. , 61% 25deg.C. , 52%
 Engineer Shinichi Takano Shinichi Takano
 Mode Tx, 2480 MHz
 Bluetooth, DH5,

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.	57.286	QP	56.0	8.7	6.8	32.1	39.4	40.0	0.6	366	27	
Hori.	60.007	QP	57.0	7.8	6.8	32.1	39.5	40.0	0.5	335	184	
Hori.	85.927	QP	51.7	7.5	7.1	32.1	34.2	40.0	5.8	224	31	
Hori.	182.112	QP	49.1	16.2	7.8	32.0	41.1	43.5	2.4	181	320	
Hori.	185.022	QP	50.7	16.3	7.8	32.0	42.8	43.5	0.7	166	324	
Hori.	239.997	QP	51.0	17.3	8.1	32.0	44.4	46.0	1.6	149	146	
Hori.	323.576	QP	45.0	14.5	8.5	31.9	36.1	46.0	9.9	100	266	
Hori.	1632.000	PK	52.2	25.3	12.7	40.1	50.1	74.0	23.9	107	216	
Hori.	2483.500	PK	45.8	27.9	13.4	40.1	47.0	74.0	27.0	103	112	
Hori.	2483.833	PK	49.2	27.9	13.4	40.1	50.4	74.0	23.6	103	112	
Hori.	4960.000	PK	49.9	31.1	5.6	40.0	46.6	74.0	27.4	100	311	
Hori.	7440.000	PK	45.5	35.9	7.1	38.7	49.8	74.0	24.2	100	0	
Hori.	9920.000	PK	43.1	38.3	8.0	37.5	51.9	74.0	22.1	100	0	
Hori.	12400.000	PK	45.4	39.7	9.4	37.9	56.6	74.0	17.4	100	0	
Hori.	1632.000	AV	46.4	25.3	12.7	40.1	44.3	54.0	9.7	107	216	
Vert.	32.760	QP	41.0	17.1	6.6	32.1	32.6	40.0	7.4	100	338	
Vert.	38.689	QP	44.1	15.2	6.6	32.1	33.8	40.0	6.2	100	228	
Vert.	48.002	QP	48.5	11.7	6.7	32.1	34.8	40.0	5.2	100	279	
Vert.	50.001	QP	47.8	11.0	6.8	32.1	33.5	40.0	6.5	100	286	
Vert.	60.007	QP	55.5	7.8	6.8	32.1	38.0	40.0	2.0	100	233	
Vert.	171.861	QP	49.2	15.8	7.7	32.0	40.7	43.5	2.8	100	62	
Vert.	185.026	QP	45.8	16.3	7.8	32.0	37.9	43.5	5.6	100	22	
Vert.	240.003	QP	44.2	17.3	8.1	32.0	37.6	46.0	8.4	100	119	
Vert.	323.566	QP	47.4	14.5	8.5	31.9	38.5	46.0	7.5	129	304	
Vert.	458.388	QP	42.1	16.9	9.1	31.9	36.2	46.0	9.8	100	329	
Vert.	1632.000	PK	50.7	25.3	12.7	40.1	48.6	74.0	25.4	100	137	
Vert.	2483.500	PK	46.7	27.9	13.4	40.1	47.9	74.0	26.1	100	310	
Vert.	2483.833	PK	50.1	27.9	13.4	40.1	51.3	74.0	22.7	100	310	
Vert.	4960.000	PK	49.2	31.1	5.6	40.0	45.9	74.0	28.1	100	235	
Vert.	7440.000	PK	46.0	35.9	7.1	38.7	50.3	74.0	23.7	100	0	
Vert.	9920.000	PK	42.9	38.3	8.0	37.5	51.7	74.0	22.3	100	0	
Vert.	12400.000	PK	44.2	39.7	9.4	37.9	55.4	74.0	18.6	100	0	
Vert.	1632.000	AV	45.0	25.3	12.7	40.1	42.9	54.0	11.1	100	137	

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).

Dwell time factor relaxation

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2483.500	AV	35.1	27.9	13.4	40.1	-24.7	11.6	54.0	42.4	
Hori.	2483.833	AV	38.5	27.9	13.4	40.1	-24.7	15.0	54.0	39.0	
Hori.	4960.000	AV	43.7	31.1	5.6	40.0	-24.7	15.7	54.0	38.3	
Hori.	7440.000	AV	33.7	35.9	7.1	38.7	-24.7	13.3	54.0	40.7	
Hori.	9920.000	AV	31.9	38.3	8.0	37.5	-24.7	16.0	54.0	38.0	
Hori.	12400.000	AV	33.0	39.7	9.4	37.9	-24.7	19.5	54.0	34.5	
Vert.	2483.500	AV	35.2	27.9	13.4	40.1	-24.7	11.7	54.0	42.3	
Vert.	2483.833	AV	38.6	27.9	13.4	40.1	-24.7	15.1	54.0	38.9	
Vert.	4960.000	AV	43.0	31.1	5.6	40.0	-24.7	15.0	54.0	39.0	
Vert.	7440.000	AV	33.5	35.9	7.1	38.7	-24.7	13.1	54.0	40.9	
Vert.	9920.000	AV	32.0	38.3	8.0	37.5	-24.7	16.1	54.0	37.9	
Vert.	12400.000	AV	33.2	39.7	9.4	37.9	-24.7	19.7	54.0	34.3	

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

- Gain(Amplifier) + Dwell time factor (Refer to page 33)

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

*No noise was detected above the 5th order harmonics.

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

Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date Jun 29, 2010 Jun 30, 2010
 Temperature / Humidity 22deg.C. , 61% 25deg.C. , 52%
 Engineer Shinichi Takano Shinichi Takano
 Mode Tx, 2402 MHz
 Bluetooth, 3-DH5,

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.	57.289	QP	55.9	8.7	6.8	32.1	39.3	40.0	0.7	344	32	
Hori.	60.002	QP	56.7	7.8	6.8	32.1	39.2	40.0	0.8	348	186	
Hori.	85.942	QP	51.3	7.5	7.1	32.1	33.8	40.0	6.2	214	39	
Hori.	182.115	QP	49.0	16.2	7.8	32.0	41.0	43.5	2.5	188	320	
Hori.	185.022	QP	50.8	16.3	7.8	32.0	42.9	43.5	0.6	163	327	
Hori.	240.002	QP	50.4	17.3	8.1	32.0	43.8	46.0	2.2	147	142	
Hori.	323.588	QP	45.2	14.5	8.5	31.9	36.3	46.0	9.7	100	273	
Hori.	1631.988	PK	52.7	25.3	12.7	40.1	50.6	74.0	23.4	106	218	
Hori.	2390.000	PK	45.8	27.6	13.3	40.2	46.5	74.0	27.5	106	113	
Hori.	2400.000	PK	53.3	27.6	13.3	40.2	54.0	74.0	20.0	106	113	
Hori.	4804.000	PK	49.5	30.6	5.5	40.1	45.5	74.0	28.5	114	59	
Hori.	7206.000	PK	44.7	36.0	6.7	38.3	49.1	74.0	24.9	100	0	
Hori.	9608.000	PK	43.5	38.4	7.8	37.3	52.4	74.0	21.6	100	0	
Hori.	12010.000	PK	45.6	39.7	9.0	38.4	55.9	74.0	18.1	100	0	
Hori.	1631.988	AV	46.4	25.3	12.7	40.1	44.3	54.0	9.7	106	218	
Vert.	32.818	QP	41.0	17.1	6.6	32.1	32.6	40.0	7.4	100	336	
Vert.	38.713	QP	43.6	15.1	6.6	32.1	33.2	40.0	6.8	100	224	
Vert.	48.002	QP	47.3	11.7	6.7	32.1	33.6	40.0	6.4	100	279	
Vert.	50.001	QP	46.7	11.0	6.8	32.1	32.4	40.0	7.6	100	288	
Vert.	60.005	QP	55.2	7.8	6.8	32.1	37.7	40.0	2.3	100	230	
Vert.	171.842	QP	49.7	15.8	7.7	32.0	41.2	43.5	2.3	100	56	
Vert.	185.015	QP	46.1	16.3	7.8	32.0	38.2	43.5	5.3	100	13	
Vert.	240.002	QP	44.2	17.3	8.1	32.0	37.6	46.0	8.4	100	127	
Vert.	323.564	QP	47.9	14.5	8.5	31.9	39.0	46.0	7.0	125	305	
Vert.	458.402	QP	42.7	16.9	9.1	31.9	36.8	46.0	9.2	100	329	
Vert.	1631.988	PK	51.1	25.3	12.7	40.1	49.0	74.0	25.0	123	133	
Vert.	2390.000	PK	46.3	27.6	13.3	40.2	47.0	74.0	27.0	128	305	
Vert.	2400.000	PK	56.8	27.6	13.3	40.2	57.5	74.0	16.5	128	305	
Vert.	4804.000	PK	48.1	30.6	5.5	40.1	44.1	74.0	29.9	100	4	
Vert.	7206.000	PK	44.7	36.0	6.7	38.3	49.1	74.0	24.9	100	0	
Vert.	9608.000	PK	43.1	38.4	7.8	37.3	52.0	74.0	22.0	100	0	
Vert.	12010.000	PK	44.9	39.7	9.0	38.4	55.2	74.0	18.8	100	0	
Vert.	1631.988	AV	44.7	25.3	12.7	40.1	42.6	54.0	11.4	123	133	

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).

Dwell time factor relaxation

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2390.000	AV	34.4	27.6	13.3	40.2	-24.7	10.4	54.0	43.6	
Hori.	2400.000	AV	40.2	27.6	13.3	40.2	-24.7	16.2	54.0	37.8	
Hori.	4804.000	AV	44.4	30.6	5.5	40.1	-24.7	15.7	54.0	38.3	
Hori.	7206.000	AV	33.6	36.0	6.7	38.3	-24.7	13.3	54.0	40.7	
Hori.	9608.000	AV	32.4	38.4	7.8	37.3	-24.7	16.6	54.0	37.4	
Hori.	12010.000	AV	34.1	39.7	9.0	38.4	-24.7	19.7	54.0	34.3	
Vert.	2390.000	AV	34.4	27.6	13.3	40.2	-24.7	10.4	54.0	43.6	
Vert.	2400.000	AV	43.4	27.6	13.3	40.2	-24.7	19.4	54.0	34.6	
Vert.	4804.000	AV	41.5	30.6	5.5	40.1	-24.7	12.8	54.0	41.2	
Vert.	7206.000	AV	33.7	36.0	6.7	38.3	-24.7	13.4	54.0	40.6	
Vert.	9608.000	AV	32.5	38.4	7.8	37.3	-24.7	16.7	54.0	37.3	
Vert.	12010.000	AV	34.1	39.7	9.0	38.4	-24.7	19.7	54.0	34.3	

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

- Gain(Amplifier) + Dwell time factor (Refer to page 33)

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

*No noise was detected above the 5th order harmonics.

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

Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
Date Jun 29, 2010 Jun 30, 2010
Temperature / Humidity 22deg.C. , 61% 25deg.C. , 52%
Engineer Shinichi Takano Shinichi Takano
Mode Tx, 2441 MHz
 Bluetooth, 3-DH5,

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.	57.288	QP	55.8	8.7	6.8	32.1	39.2	40.0	0.8	344	26	
Hori.	60.001	QP	56.4	7.8	6.8	32.1	38.9	40.0	1.1	347	182	
Hori.	85.927	QP	51.3	7.5	7.1	32.1	33.8	40.0	6.2	219	34	
Hori.	182.116	QP	49.2	16.2	7.8	32.0	41.2	43.5	2.3	182	329	
Hori.	185.023	QP	50.8	16.3	7.8	32.0	42.9	43.5	0.6	168	326	
Hori.	240.003	QP	50.9	17.3	8.1	32.0	44.3	46.0	1.7	144	142	
Hori.	323.587	QP	45.0	14.5	8.5	31.9	36.1	46.0	9.9	100	278	
Hori.	1631.960	PK	51.7	25.3	12.7	40.1	49.6	74.0	24.4	106	218	
Hori.	4882.000	PK	49.7	30.9	5.6	40.0	46.2	74.0	27.8	118	279	
Hori.	7323.000	PK	45.2	36.0	6.9	38.5	49.6	74.0	24.4	100	0	
Hori.	9764.000	PK	43.9	38.4	7.8	37.4	52.7	74.0	21.3	100	0	
Hori.	12205.000	PK	44.4	39.7	9.1	38.1	55.1	74.0	18.9	100	0	
Hori.	1631.960	AV	46.3	25.3	12.7	40.1	44.2	54.0	9.8	106	218	
Vert.	32.815	QP	41.4	17.1	6.6	32.1	33.0	40.0	7.0	100	341	
Vert.	38.723	QP	44.2	15.1	6.6	32.1	33.8	40.0	6.2	100	230	
Vert.	48.009	QP	47.7	11.7	6.7	32.1	34.0	40.0	6.0	100	281	
Vert.	50.003	QP	46.9	11.0	6.8	32.1	32.6	40.0	7.4	100	283	
Vert.	60.002	QP	55.2	7.8	6.8	32.1	37.7	40.0	2.3	100	238	
Vert.	171.852	QP	49.2	15.8	7.7	32.0	40.7	43.5	2.8	100	52	
Vert.	185.024	QP	46.1	16.3	7.8	32.0	38.2	43.5	5.3	100	19	
Vert.	240.005	QP	43.8	17.3	8.1	32.0	37.2	46.0	8.8	100	127	
Vert.	323.582	QP	47.1	14.5	8.5	31.9	38.2	46.0	7.8	124	310	
Vert.	458.403	QP	42.2	16.9	9.1	31.9	36.3	46.0	9.7	100	335	
Vert.	1631.960	PK	51.1	25.3	12.7	40.1	49.0	74.0	25.0	124	127	
Vert.	4882.000	PK	49.7	30.9	5.6	40.0	46.2	74.0	27.8	127	19	
Vert.	7323.000	PK	44.5	36.0	6.9	38.5	48.9	74.0	25.1	100	0	
Vert.	9764.000	PK	43.7	38.4	7.8	37.4	52.5	74.0	21.5	100	0	
Vert.	12205.000	PK	44.6	39.7	9.1	38.1	55.3	74.0	18.7	100	0	
Vert.	1631.960	AV	44.6	25.3	12.7	40.1	42.5	54.0	11.5	124	127	

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).

Dwell time factor relaxation

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	4882.000	AV	44.1	30.9	5.6	40.0	-24.7	15.9	54.0	38.1	
Hori.	7323.000	AV	33.4	36.0	6.9	38.5	-24.7	13.1	54.0	40.9	
Hori.	9764.000	AV	32.1	38.4	7.8	37.4	-24.7	16.2	54.0	37.8	
Hori.	12205.000	AV	33.2	39.7	9.1	38.1	-24.7	19.2	54.0	34.8	
Vert.	4882.000	AV	43.4	30.9	5.6	40.0	-24.7	15.2	54.0	38.8	
Vert.	7323.000	AV	33.3	36.0	6.9	38.5	-24.7	13.0	54.0	41.0	
Vert.	9764.000	AV	32.0	38.4	7.8	37.4	-24.7	16.1	54.0	37.9	
Vert.	12205.000	AV	33.4	39.7	9.1	38.1	-24.7	19.4	54.0	34.6	

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

- Gain(Amplifier) + Dwell time factor (Refer to page 33)

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

*No noise was detected above the 5th order harmonics.

Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
Date Jun 29, 2010 Jun 30, 2010
Temperature / Humidity 22deg.C. , 61% 25deg.C. , 52%
Engineer Shinichi Takano Shinichi Takano
Mode Tx, 2480 MHz
 Bluetooth, 3-DH5,

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.	57.288	QP	55.7	8.7	6.8	32.1	39.1	40.0	0.9	355	32	
Hori.	60.006	QP	56.4	7.8	6.8	32.1	38.9	40.0	1.1	349	181	
Hori.	85.937	QP	51.7	7.5	7.1	32.1	34.2	40.0	5.8	215	39	
Hori.	182.115	QP	49.6	16.2	7.8	32.0	41.6	43.5	1.9	172	327	
Hori.	185.021	QP	50.8	16.3	7.8	32.0	42.9	43.5	0.6	173	325	
Hori.	239.998	QP	50.8	17.3	8.1	32.0	44.2	46.0	1.8	144	143	
Hori.	323.574	QP	45.5	14.5	8.5	31.9	36.6	46.0	9.4	100	274	
Hori.	1631.993	PK	52.1	25.3	12.7	40.1	50.0	74.0	24.0	105	215	
Hori.	2483.500	PK	46.5	27.9	13.4	40.1	47.7	74.0	26.3	153	111	
Hori.	2483.867	PK	47.7	27.9	13.4	40.1	48.9	74.0	25.1	153	111	
Hori.	4960.000	PK	49.7	31.1	5.6	40.0	46.4	74.0	27.6	100	311	
Hori.	7440.000	PK	45.1	35.9	7.1	38.7	49.4	74.0	24.6	100	0	
Hori.	9920.000	PK	43.2	38.3	8.0	37.5	52.0	74.0	22.0	100	0	
Hori.	12400.000	PK	44.5	39.7	9.4	37.9	55.7	74.0	18.3	100	0	
Hori.	1631.993	AV	46.2	25.3	12.7	40.1	44.1	54.0	9.9	105	215	
Vert.	32.817	QP	41.9	17.1	6.6	32.1	33.5	40.0	6.5	100	341	
Vert.	38.724	QP	44.2	15.1	6.6	32.1	33.8	40.0	6.2	100	231	
Vert.	48.008	QP	48.2	11.7	6.7	32.1	34.5	40.0	5.5	100	284	
Vert.	50.009	QP	47.3	11.0	6.8	32.1	33.0	40.0	7.0	100	284	
Vert.	60.000	QP	55.2	7.8	6.8	32.1	37.7	40.0	2.3	100	235	
Vert.	171.836	QP	49.1	15.8	7.7	32.0	40.6	43.5	2.9	100	56	
Vert.	185.024	QP	45.8	16.3	7.8	32.0	37.9	43.5	5.6	100	23	
Vert.	240.003	QP	43.2	17.3	8.1	32.0	36.6	46.0	9.4	100	133	
Vert.	323.577	QP	47.5	14.5	8.5	31.9	38.6	46.0	7.4	128	311	
Vert.	458.407	QP	43.3	16.9	9.1	31.9	37.4	46.0	8.6	100	328	
Vert.	1631.993	PK	51.2	25.3	12.7	40.1	49.1	74.0	24.9	123	132	
Vert.	2483.500	PK	46.3	27.9	13.4	40.1	47.5	74.0	26.5	100	310	
Vert.	2483.867	PK	47.5	27.9	13.4	40.1	48.7	74.0	25.3	100	310	
Vert.	4960.000	PK	49.8	31.1	5.6	40.0	46.5	74.0	27.5	100	235	
Vert.	7440.000	PK	45.4	35.9	7.1	38.7	49.7	74.0	24.3	100	0	
Vert.	9920.000	PK	43.4	38.3	8.0	37.5	52.2	74.0	21.8	100	0	
Vert.	12400.000	PK	45.4	39.7	9.4	37.9	56.6	74.0	17.4	100	0	
Vert.	1631.993	AV	44.9	25.3	12.7	40.1	42.8	54.0	11.2	123	132	

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).

Dwell time factor relaxation

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2483.500	AV	35.1	27.9	13.4	40.1	-24.7	11.6	54.0	42.4	
Hori.	2483.867	AV	36.3	27.9	13.4	40.1	-24.7	12.8	54.0	41.2	
Hori.	4960.000	AV	43.4	31.1	5.6	40.0	-24.7	15.4	54.0	38.6	
Hori.	7440.000	AV	33.5	35.9	7.1	38.7	-24.7	13.1	54.0	40.9	
Hori.	9920.000	AV	32.0	38.3	8.0	37.5	-24.7	16.1	54.0	37.9	
Hori.	12400.000	AV	32.9	39.7	9.4	37.9	-24.7	19.4	54.0	34.6	
Vert.	2483.500	AV	34.7	27.9	13.4	40.1	-24.7	11.2	54.0	42.8	
Vert.	2483.867	AV	35.9	27.9	13.4	40.1	-24.7	12.4	54.0	41.6	
Vert.	4960.000	AV	43.0	31.1	5.6	40.0	-24.7	15.0	54.0	39.0	
Vert.	7440.000	AV	33.4	35.9	7.1	38.7	-24.7	13.0	54.0	41.0	
Vert.	9920.000	AV	31.9	38.3	8.0	37.5	-24.7	16.0	54.0	38.0	
Vert.	12400.000	AV	33.1	39.7	9.4	37.9	-24.7	19.6	54.0	34.4	

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

- Gain(Amplifier) + Dwell time factor (Refer to page 33)

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

*No noise was detected above the 5th order harmonics.

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

Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
Date Jun 29, 2010 Jun 30, 2010
Temperature / Humidity 22deg.C. , 61% 25deg.C. , 52%
Engineer Shinichi Takano Shinichi Takano
Mode Rx, 2441 MHz
 Bluetooth, DH5,

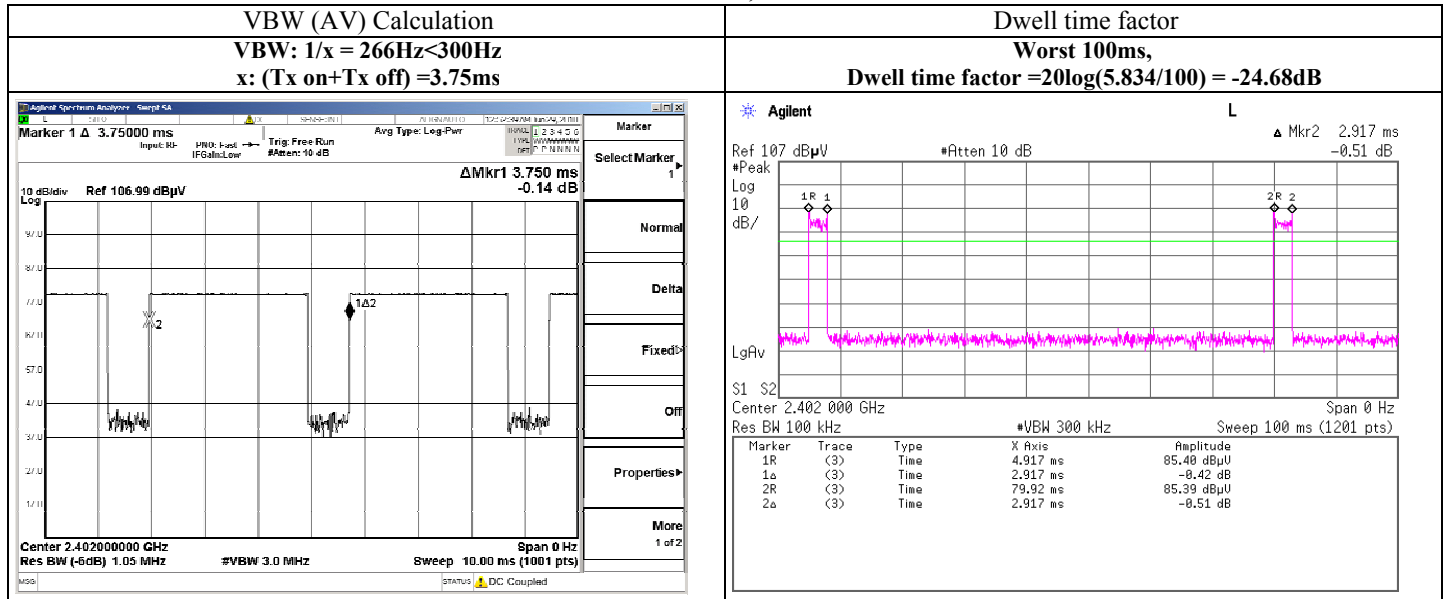
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	57.293	QP	55.9	8.7	6.8	32.1	39.3	40.0	0.7	341	27	
Hori.	60.003	QP	56.3	7.8	6.8	32.1	38.8	40.0	1.2	344	182	
Hori.	85.927	QP	51.6	7.5	7.1	32.1	34.1	40.0	5.9	217	32	
Hori.	182.115	QP	49.3	16.2	7.8	32.0	41.3	43.5	2.2	185	327	
Hori.	185.022	QP	50.7	16.3	7.8	32.0	42.8	43.5	0.7	173	328	
Hori.	239.998	QP	50.9	17.3	8.1	32.0	44.3	46.0	1.7	145	140	
Hori.	323.581	QP	45.3	14.5	8.5	31.9	36.4	46.0	9.6	100	278	
Hori.	1630.003	PK	60.4	25.3	2.7	40.1	48.3	74.0	25.7	106	216	
Hori.	1823.978	PK	63.1	25.9	2.9	40.3	51.6	74.0	22.4	100	213	
Hori.	4884.940	PK	49.6	30.9	5.0	40.0	45.5	74.0	28.5	100	56	
Hori.	1630.003	AV	56.1	25.3	2.7	40.1	44.0	54.0	10.0	106	216	
Hori.	1823.978	AV	54.2	25.9	2.9	40.3	42.7	54.0	11.3	100	213	
Hori.	4884.940	AV	43.7	30.9	5.0	40.0	39.6	54.0	14.4	100	56	
Vert.	32.818	QP	41.3	17.1	6.6	32.1	32.9	40.0	7.1	100	339	
Vert.	38.724	QP	44.3	15.1	6.6	32.1	33.9	40.0	6.1	100	229	
Vert.	48.009	QP	48.2	11.7	6.7	32.1	34.5	40.0	5.5	100	287	
Vert.	50.002	QP	46.8	11.0	6.8	32.1	32.5	40.0	7.5	100	285	
Vert.	60.002	QP	55.3	7.8	6.8	32.1	37.8	40.0	2.2	100	242	
Vert.	171.846	QP	49.1	15.8	7.7	32.0	40.6	43.5	2.9	100	54	
Vert.	185.018	QP	46.2	16.3	7.8	32.0	38.3	43.5	5.2	100	23	
Vert.	240.003	QP	44.3	17.3	8.1	32.0	37.7	46.0	8.3	100	128	
Vert.	323.577	QP	46.9	14.5	8.5	31.9	38.0	46.0	8.0	123	302	
Vert.	458.398	QP	42.3	16.9	9.1	31.9	36.4	46.0	9.6	100	335	
Vert.	1630.003	PK	57.8	25.3	2.7	40.1	45.7	74.0	28.3	126	132	
Vert.	1823.978	PK	62.4	25.9	2.9	40.3	50.9	74.0	23.1	131	219	
Vert.	4884.940	PK	49.8	30.9	5.0	40.0	45.7	74.0	28.3	127	19	
Vert.	1630.003	AV	54.3	25.3	2.7	40.1	42.2	54.0	11.8	126	132	
Vert.	1823.978	AV	53.4	25.9	2.9	40.3	41.9	54.0	12.1	131	219	
Vert.	4884.940	AV	44.0	30.9	5.0	40.0	39.9	54.0	14.1	127	19	

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

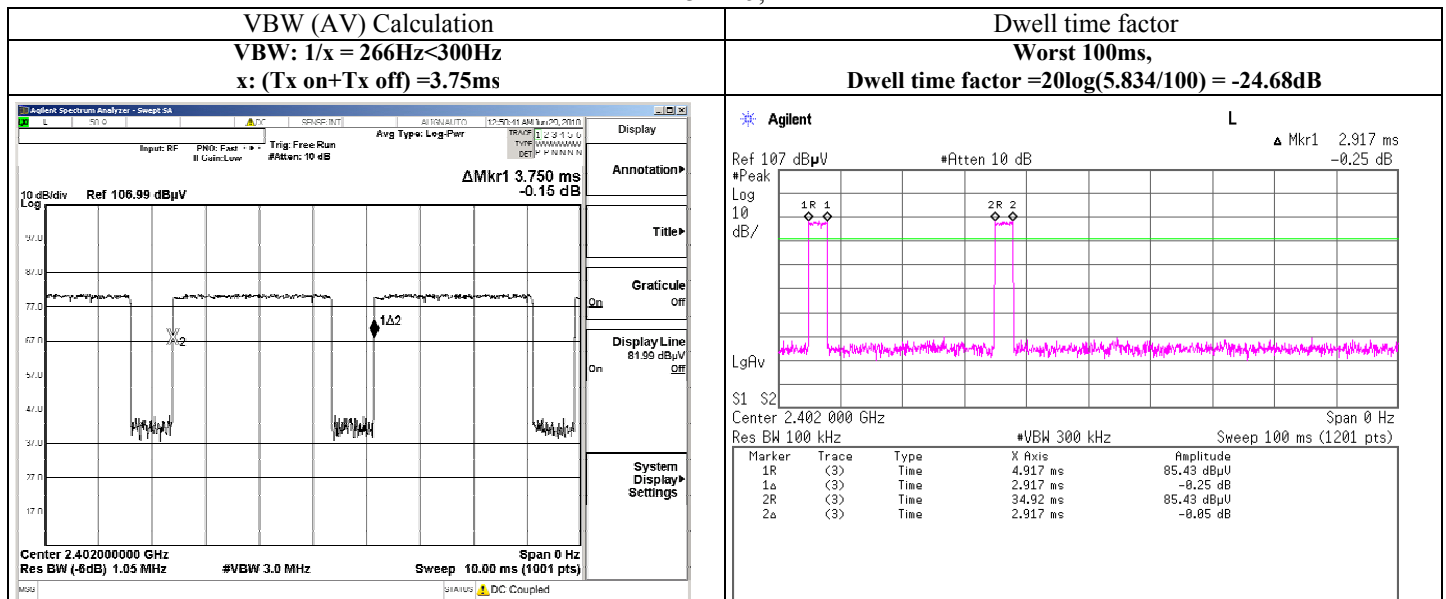
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

Spurious emission (Radiated)

DH5,



3-DH5,



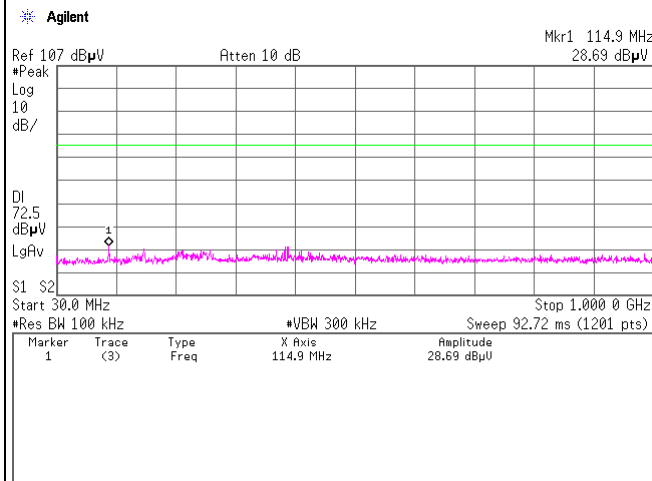
UL Japan, Inc.
Shonan EMC Lab.

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

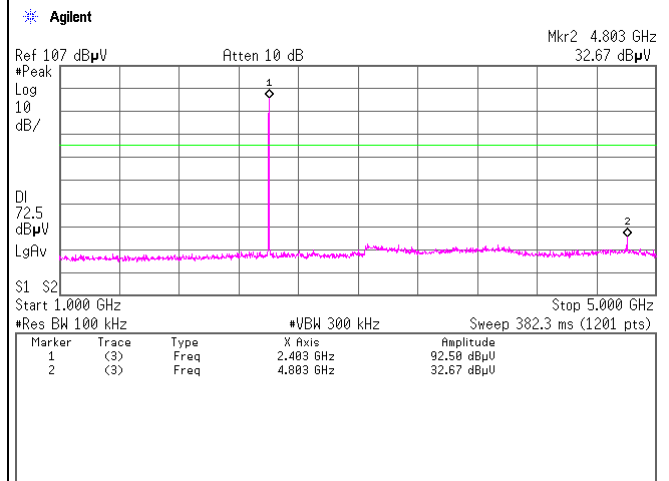
Spurious emission (Conducted)

DH5,
Tx, 2402MHz

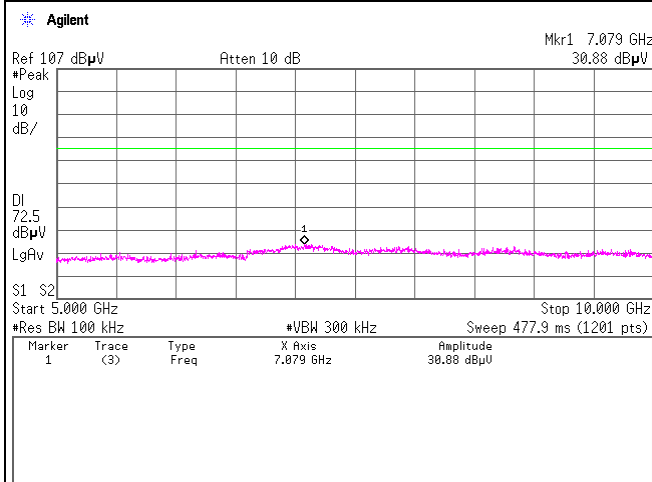
30MHz - 1GHz



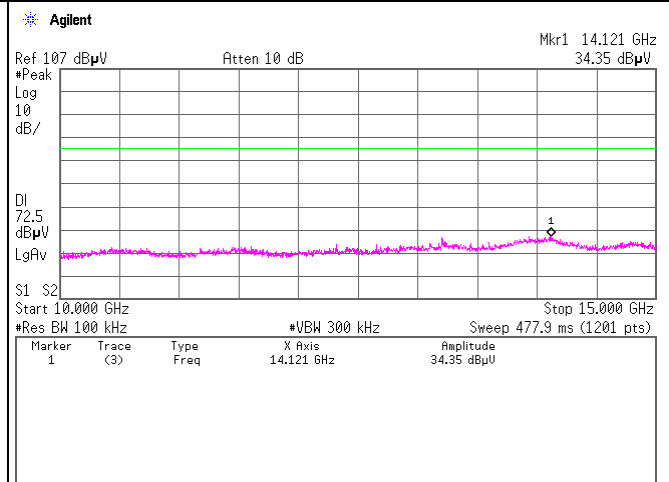
1GHz - 5GHz



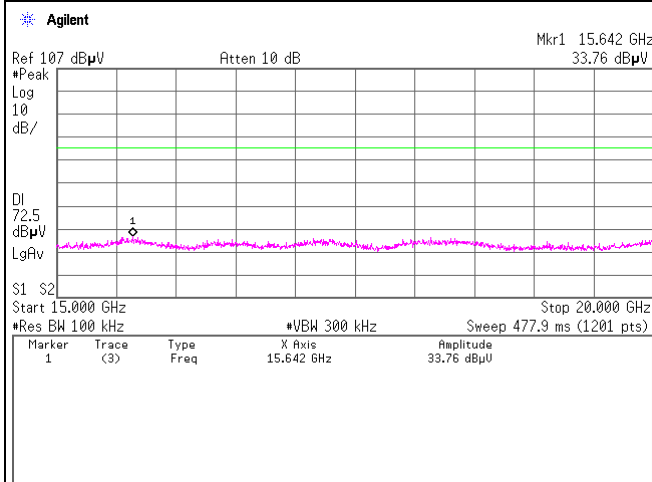
5GHz - 10GHz



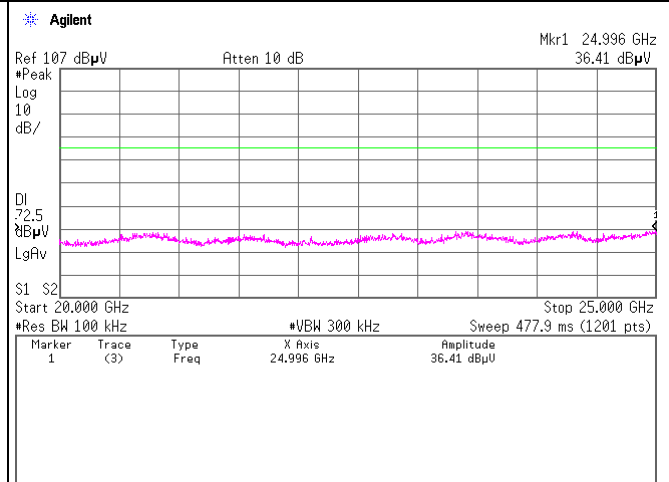
10GHz - 15GHz



15GHz - 20GHz



20GHz - 25GHz



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 (Conducted)

DH5,
Tx, 2441MHz



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 (Conducted)

DH5,
Tx, 2480MHz

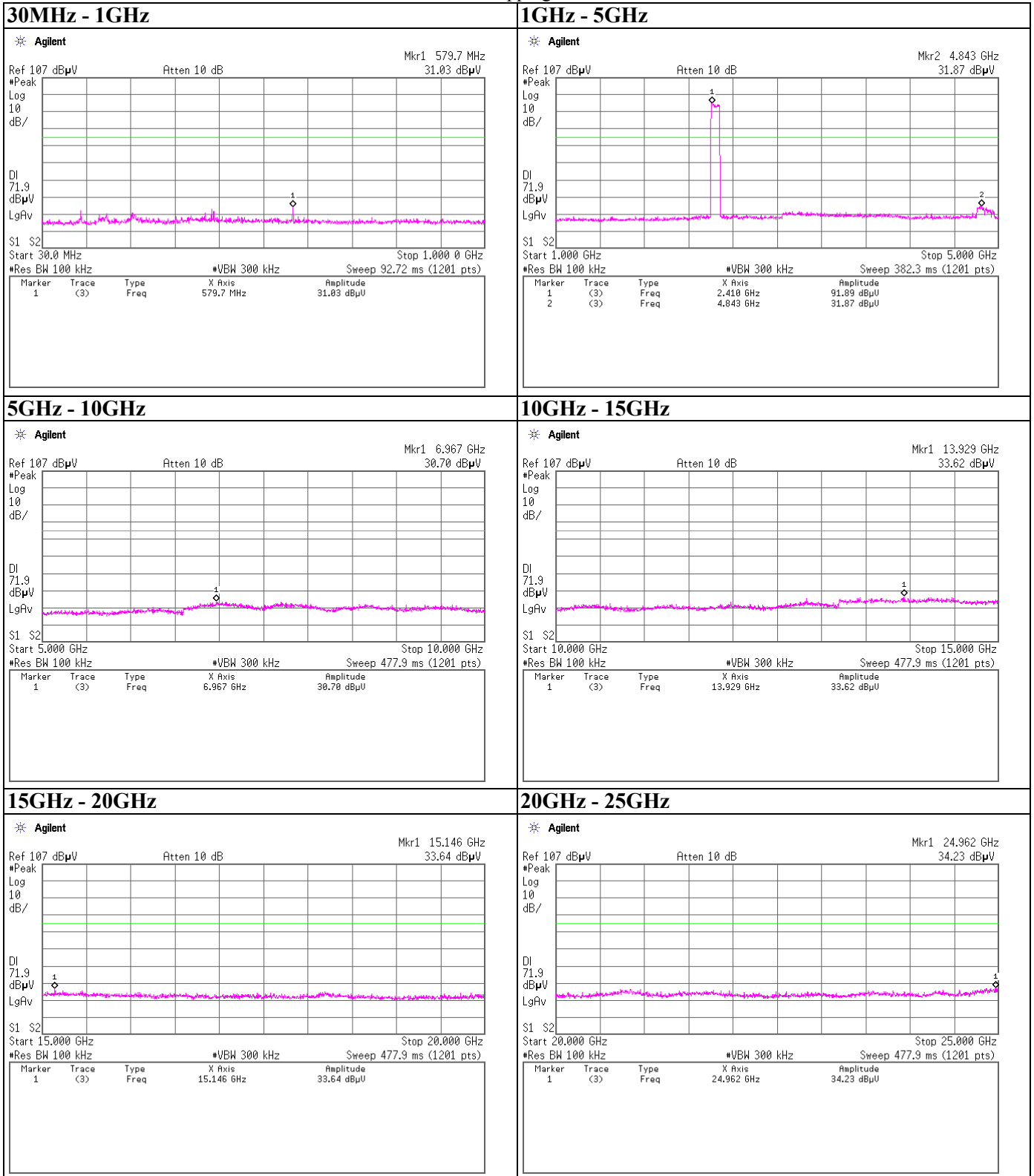


UL Japan, Inc.
Shonan EMC Lab.

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

Spurious emission (Conducted)

DH5,
Hopping



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 (Conducted)

3-DH5,

Tx, 2402MHz



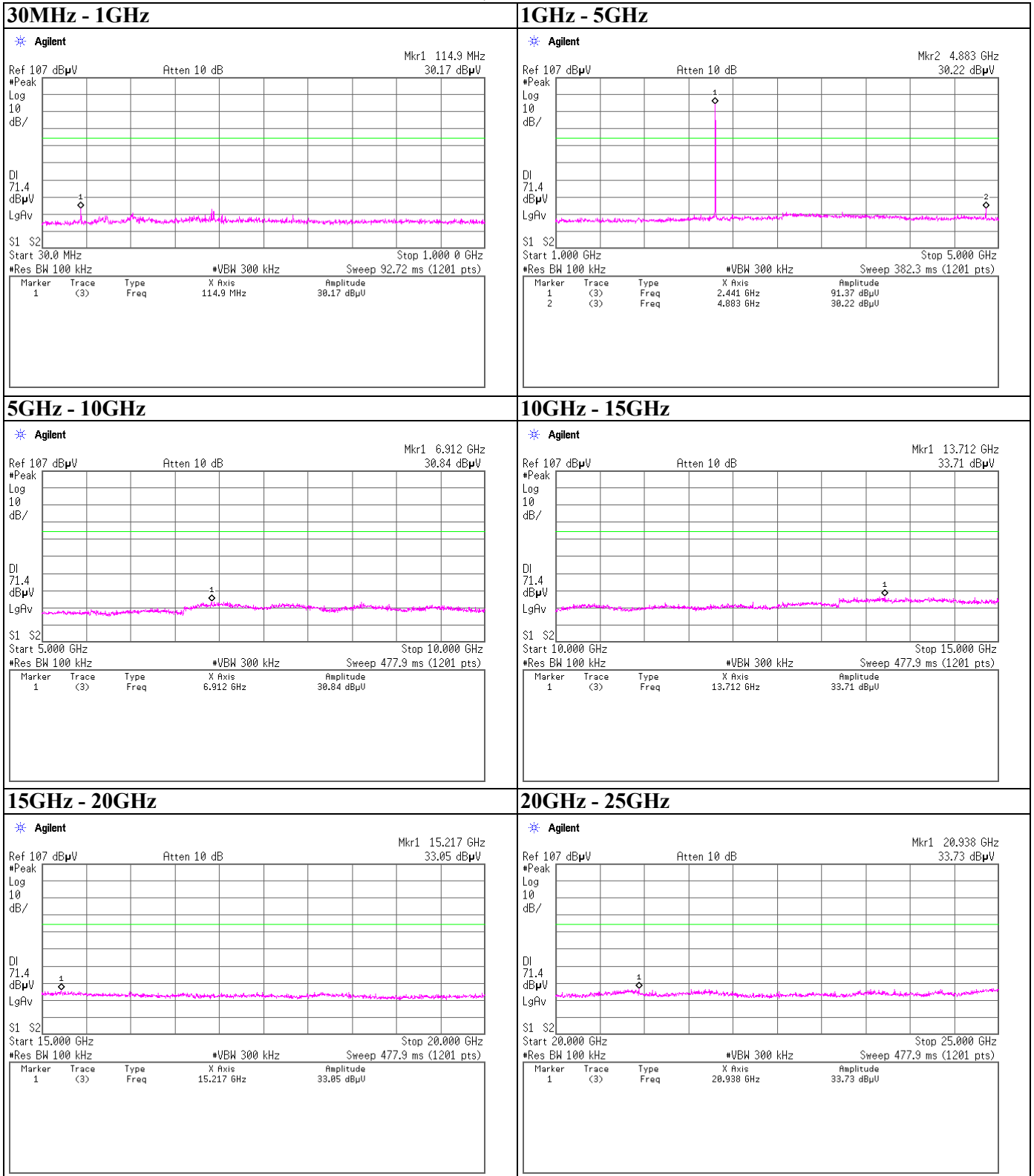
UL Japan, Inc.
Shonan EMC Lab.

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

Spurious emission (Conducted)

3-DH5,

Tx, 2441MHz



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 (Conducted)

3-DH5,

Tx, 2480MHz



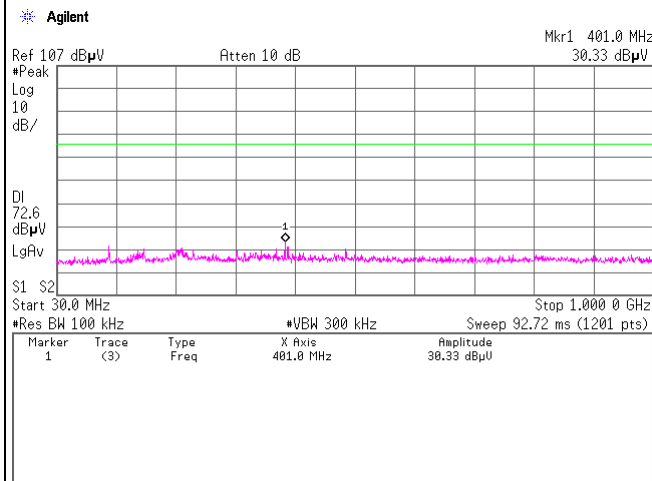
UL Japan, Inc.
Shonan EMC Lab.

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

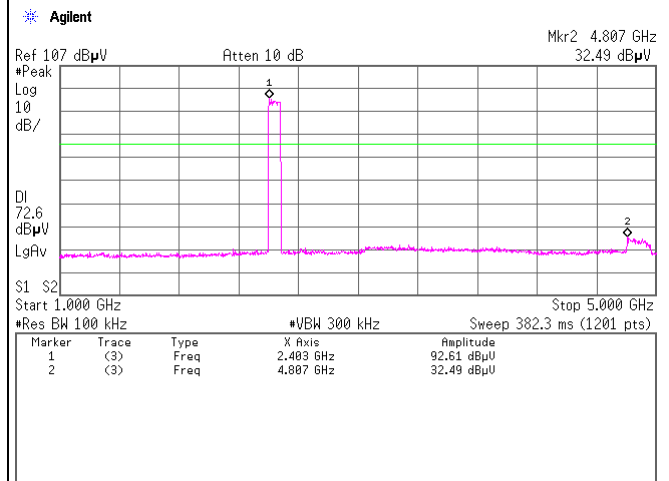
Spurious emission (Conducted)

3-DH5,
Hopping

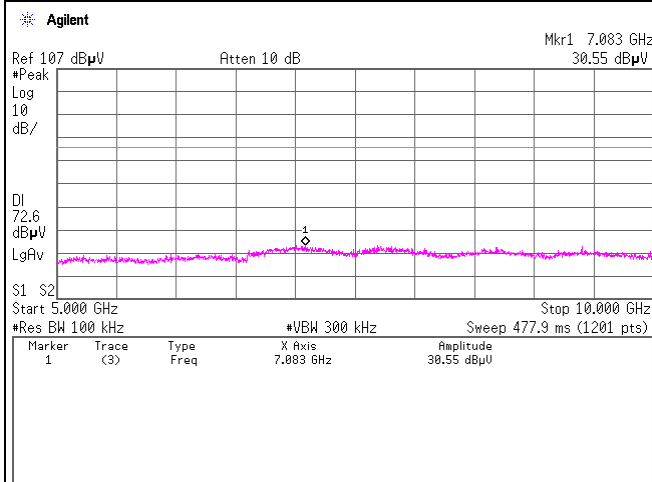
30MHz - 1GHz



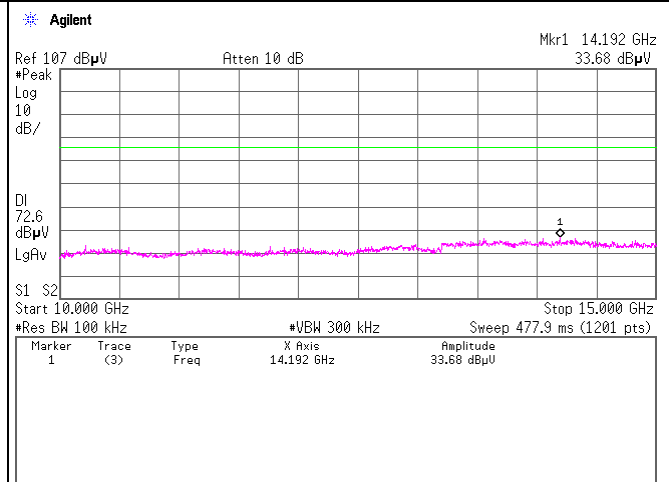
1GHz - 5GHz



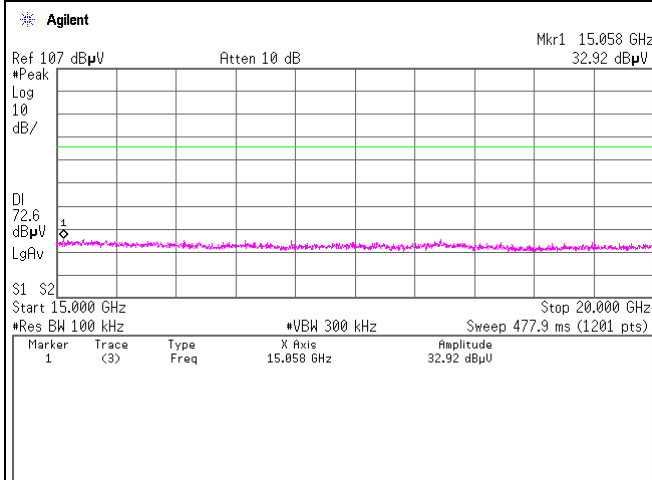
5GHz - 10GHz



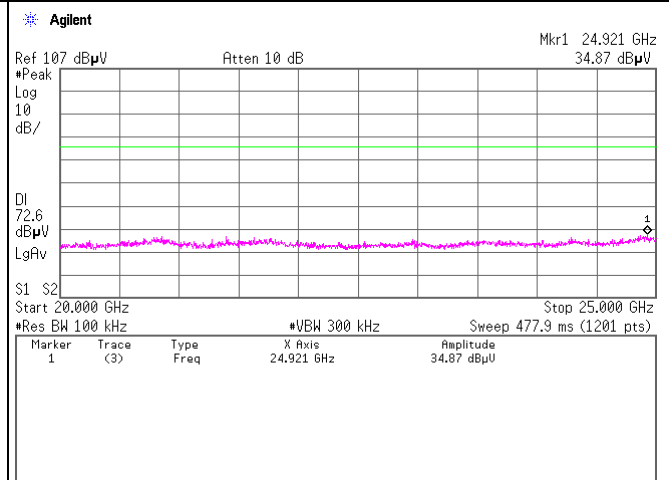
10GHz - 15GHz



15GHz - 20GHz



20GHz - 25GHz



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 (Conducted)

Rx, 2441MHz



UL Japan, Inc.
Shonan EMC Lab.

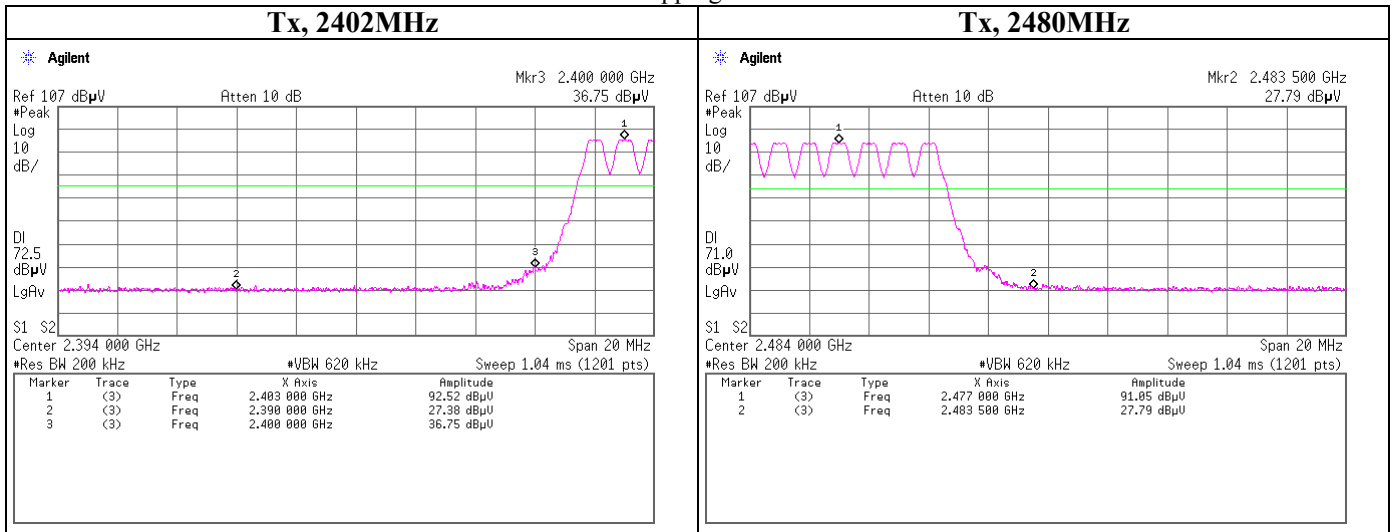
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

Spurious emission (Conducted)

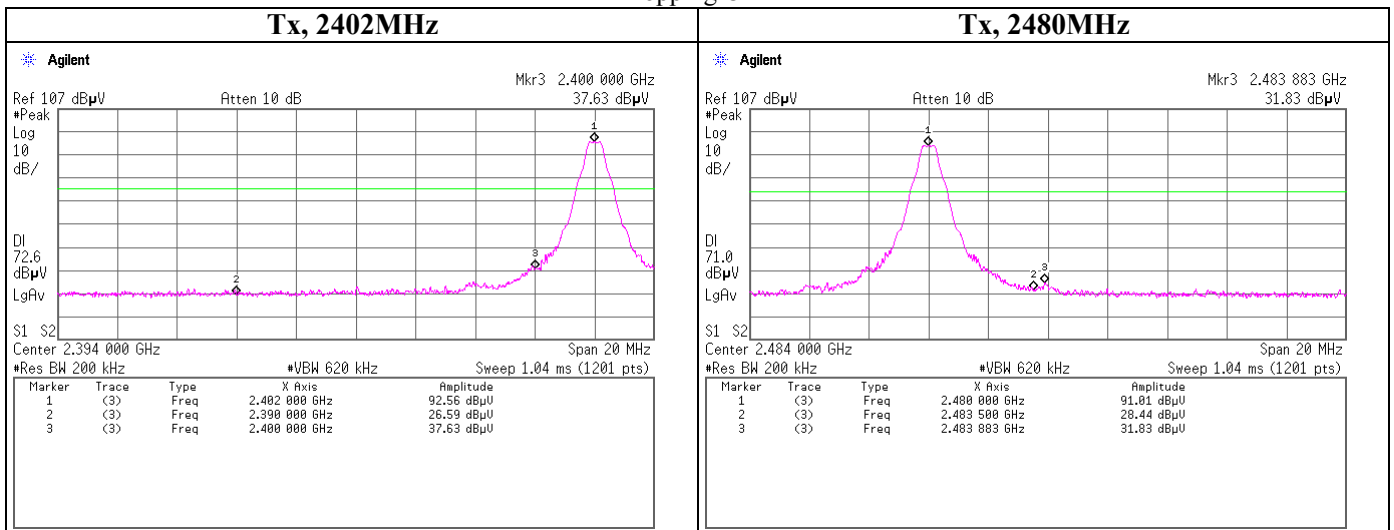
Band Edge compliance

DH5,

Hopping ON



Hopping OFF



UL Japan, Inc.
Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

Telephone : +81 463 50 6400

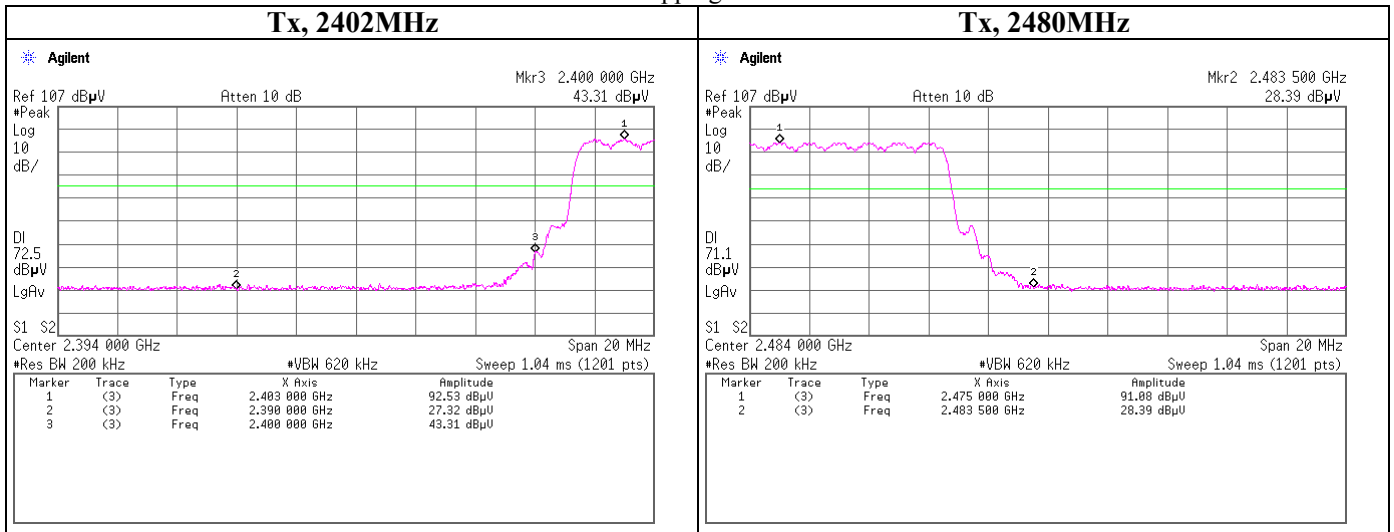
Facsimile : +81 463 50 6401

Spurious emission (Conducted)

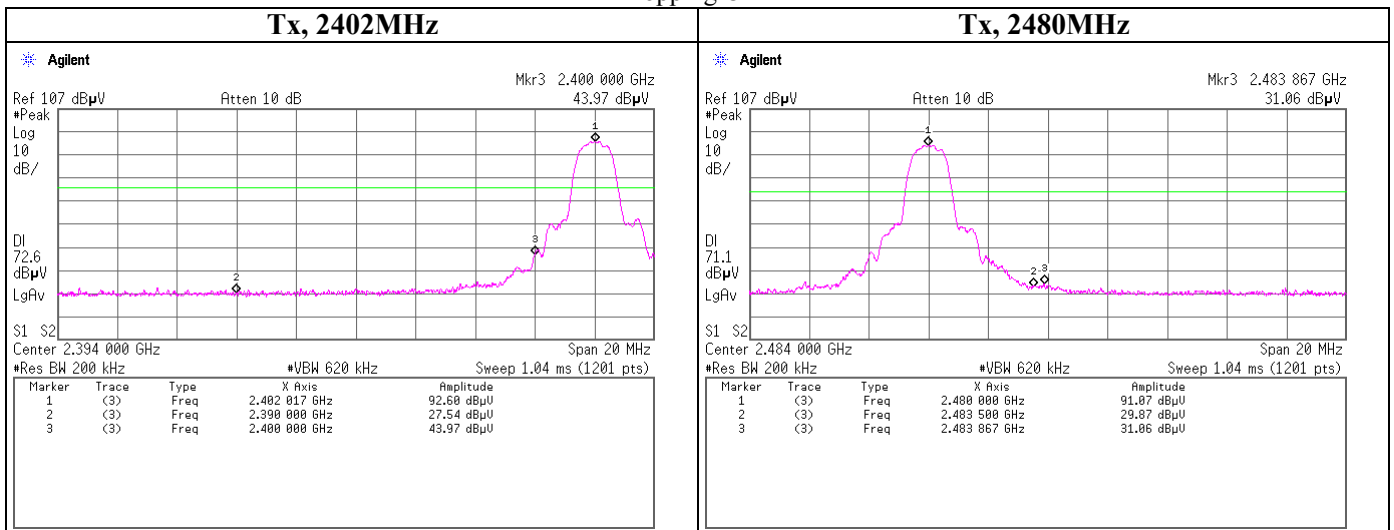
Band Edge compliance

3-DH5,

Hopping ON



Hopping OFF

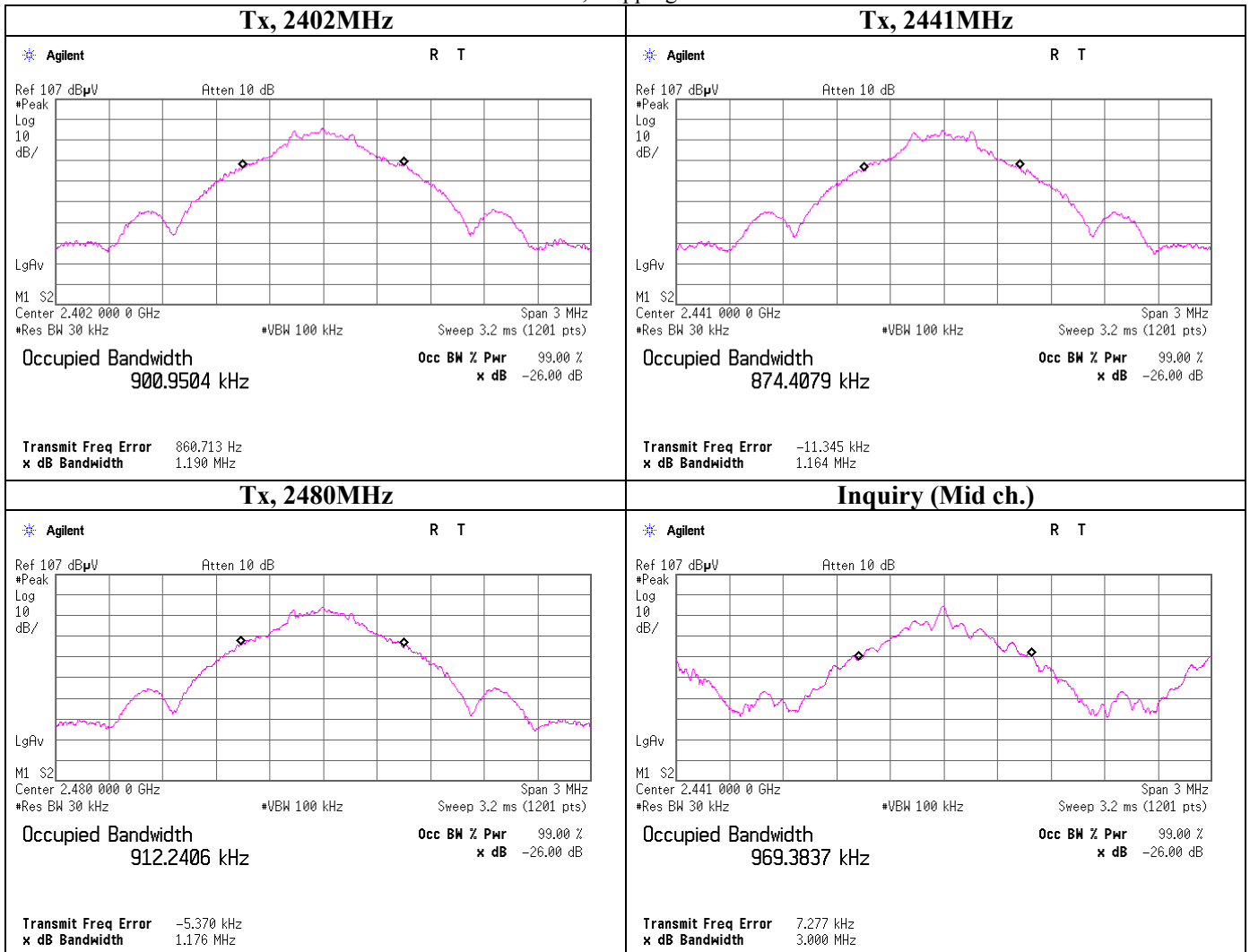


UL Japan, Inc.
Shonan EMC Lab.

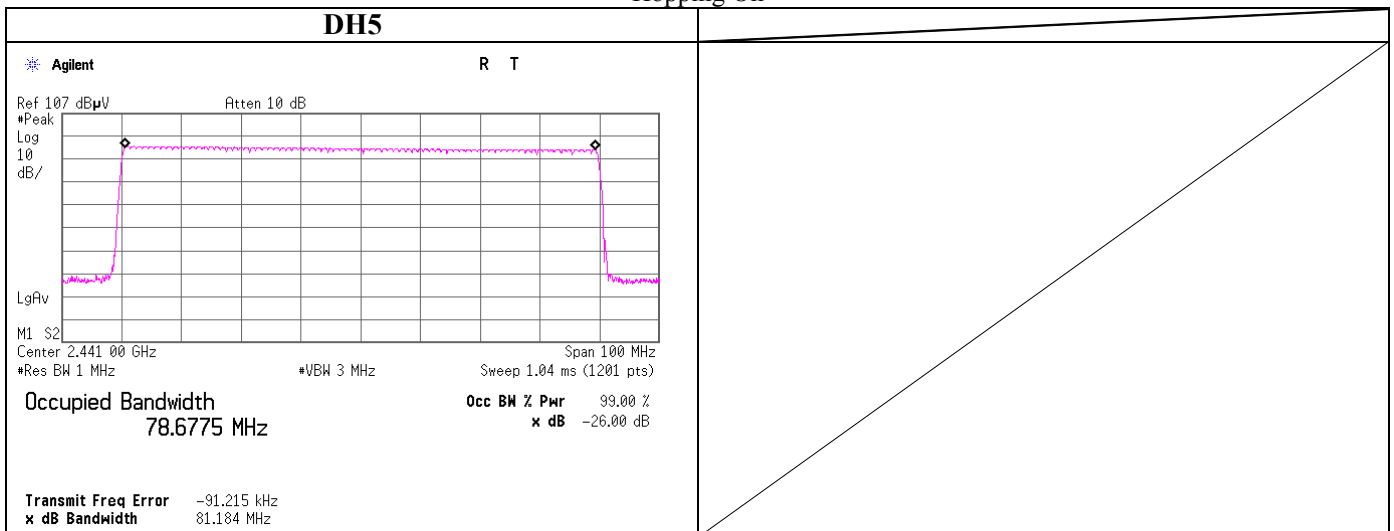
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

99% Occupied Bandwidth

DH5, Hopping Off



Hopping On

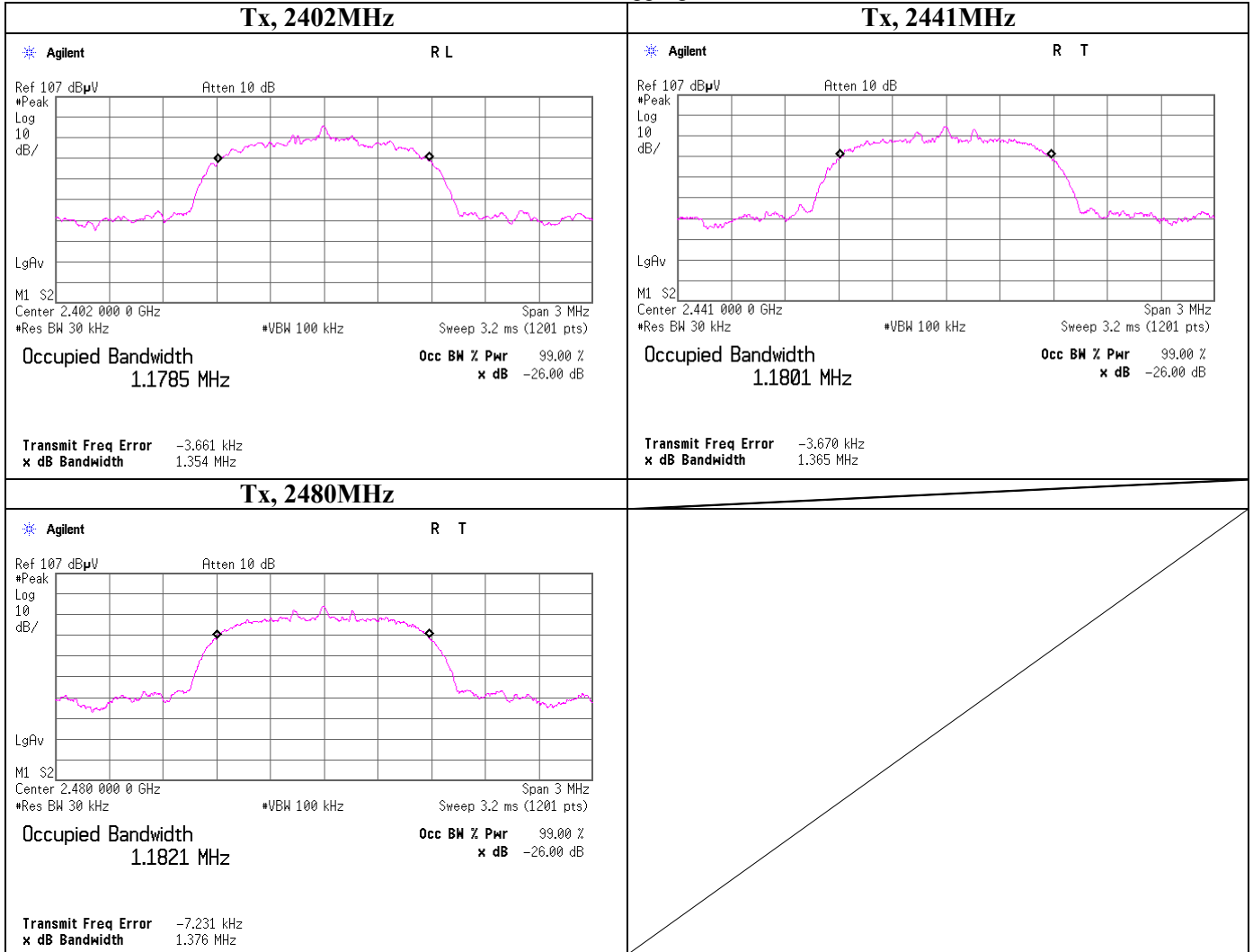


UL Japan, Inc.
Shonan EMC Lab.

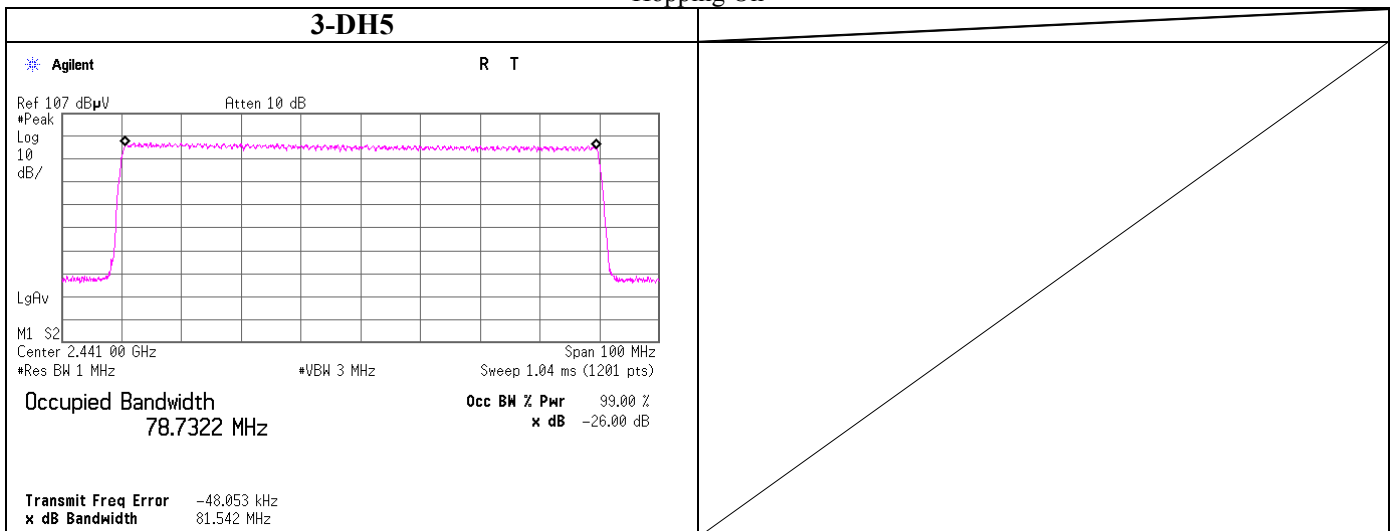
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

99% Occupied Bandwidth

3-DH5, Hopping Off



Hopping On



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

APPENDIX 3:Test instruments

EMI test equipment

[illegible]

The expiration date of the calibration is the end of the expired month.

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

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

Test Item:

RE: Spurious Emission (Radiated)
AT: Antenna terminal conducted test

- 1: Carrier Frequency Separation
- 2: 20dB Bandwidth
- 3: Number of Hopping Frequency
- 4: Dwell time
- 5: Maximum Peak Output Power
- 6: Spurious Emission (Conducted)

UL Japan, Inc.

Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa, Japan 259-1220

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401