

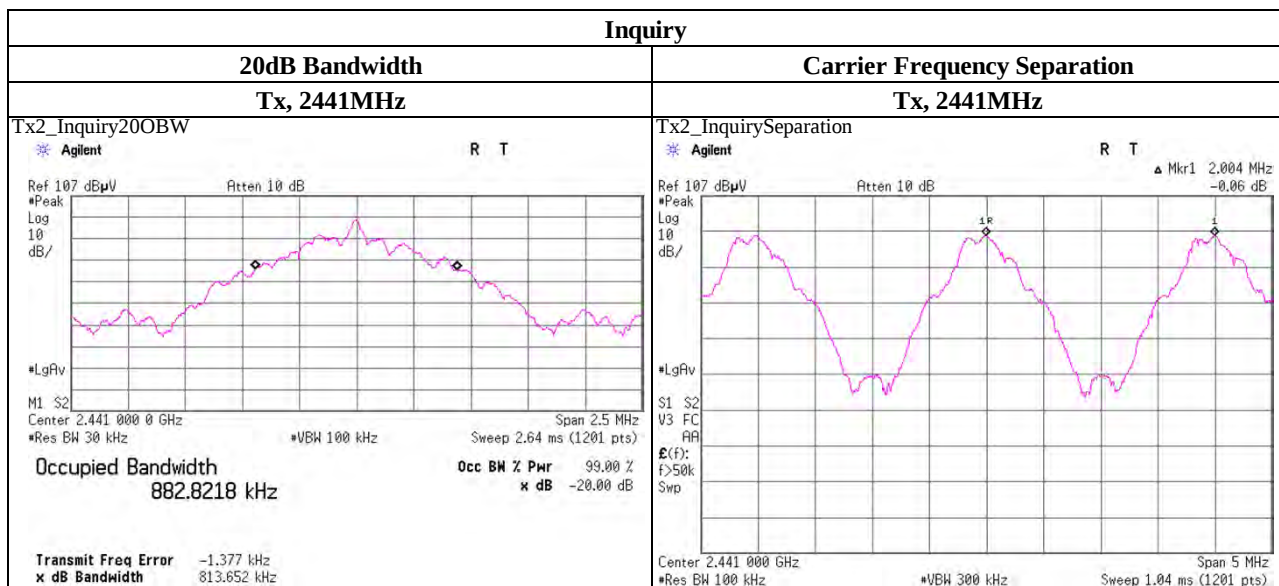
APPENDIX 1: Data of Radio tests**20dB Bandwidth and Carrier Frequency Separation**

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
 Date January 27, 2012
 Temperature / Humidity 23deg.C , 24%RH
 Engineer Hikaru Shirasawa
 Mode Tx, Bluetooth, BDR, PRBS9

Mode	Freq. [MHz]	20dB Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit for Carrier Frequency Separation [MHz]
DH5	2402.0	0.929	1.000	>= 0.619
DH5	2441.0	0.931	1.000	>= 0.621
DH5	2480.0	0.930	1.000	>= 0.620
Inquiry	2441.0	0.814	2.004	>= 0.542

Limit: Two-thirds of 20dB Bandwidth or 25kHz (whichever is greater).

No limit applies to 20dB Bandwidth.



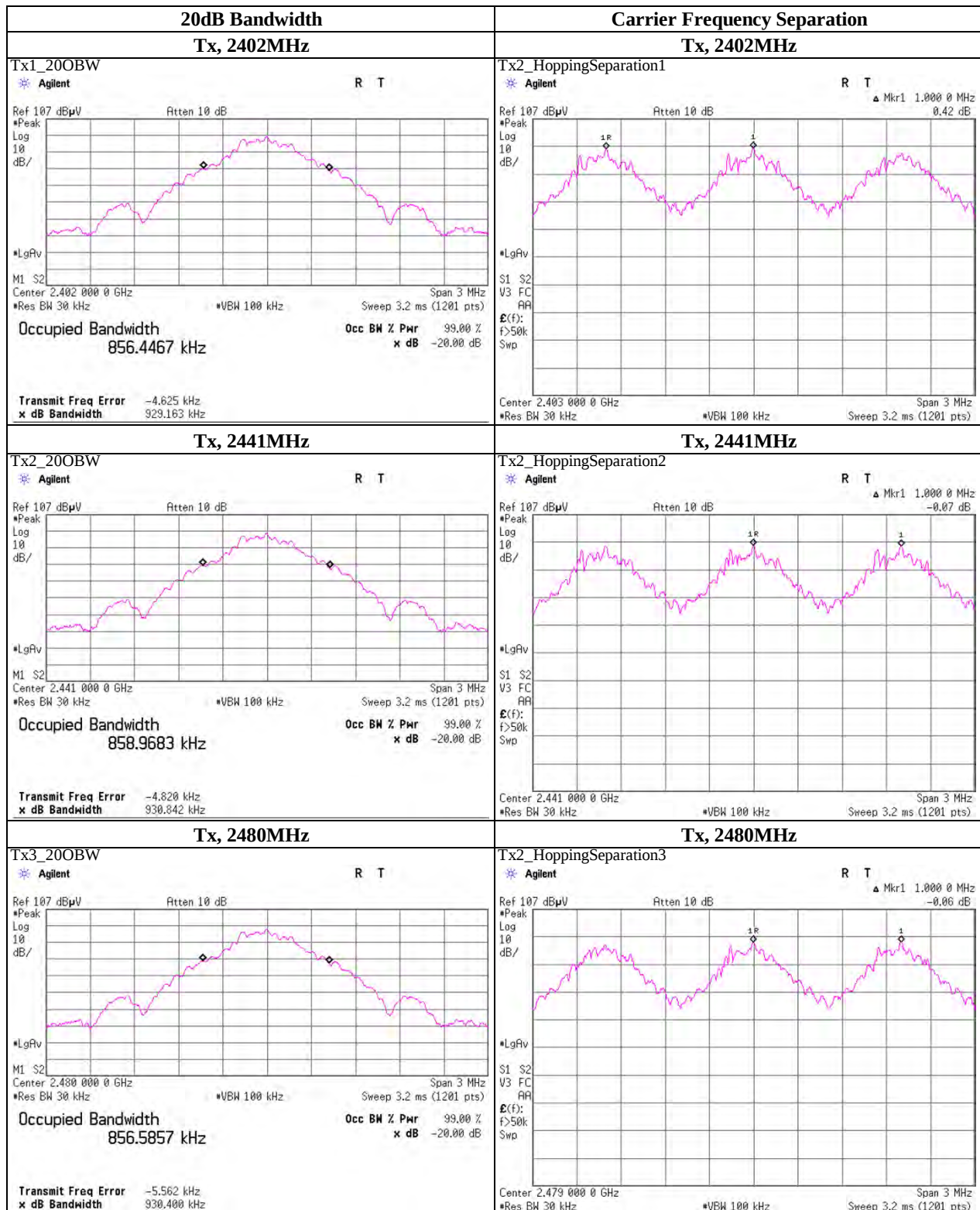
UL Japan, Inc.

Shonan EMC Lab.

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

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20dB Bandwidth and Carrier Frequency Separation**Tx, Bluetooth, BDR, PRBS9****UL Japan, Inc.****Shonan EMC Lab.**

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20dB Bandwidth and Carrier Frequency Separation

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
Date January 27, 2012
Temperature / Humidity 23deg.C , 24%RH
Engineer Hikaru Shirasawa
Mode Tx, Bluetooth, EDR, PRBS9

Mode	Freq. [MHz]	20dB Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit for Carrier Frequency Separation [MHz]
3-DH5	2402.0	1.304	1.005	>= 0.869
3-DH5	2441.0	1.277	1.003	>= 0.851
3-DH5	2480.0	1.280	1.000	>= 0.853

Limit: Two-thirds of 20dB Bandwidth or 25kHz (whichever is greater).

No limit applies to 20dB Bandwidth.

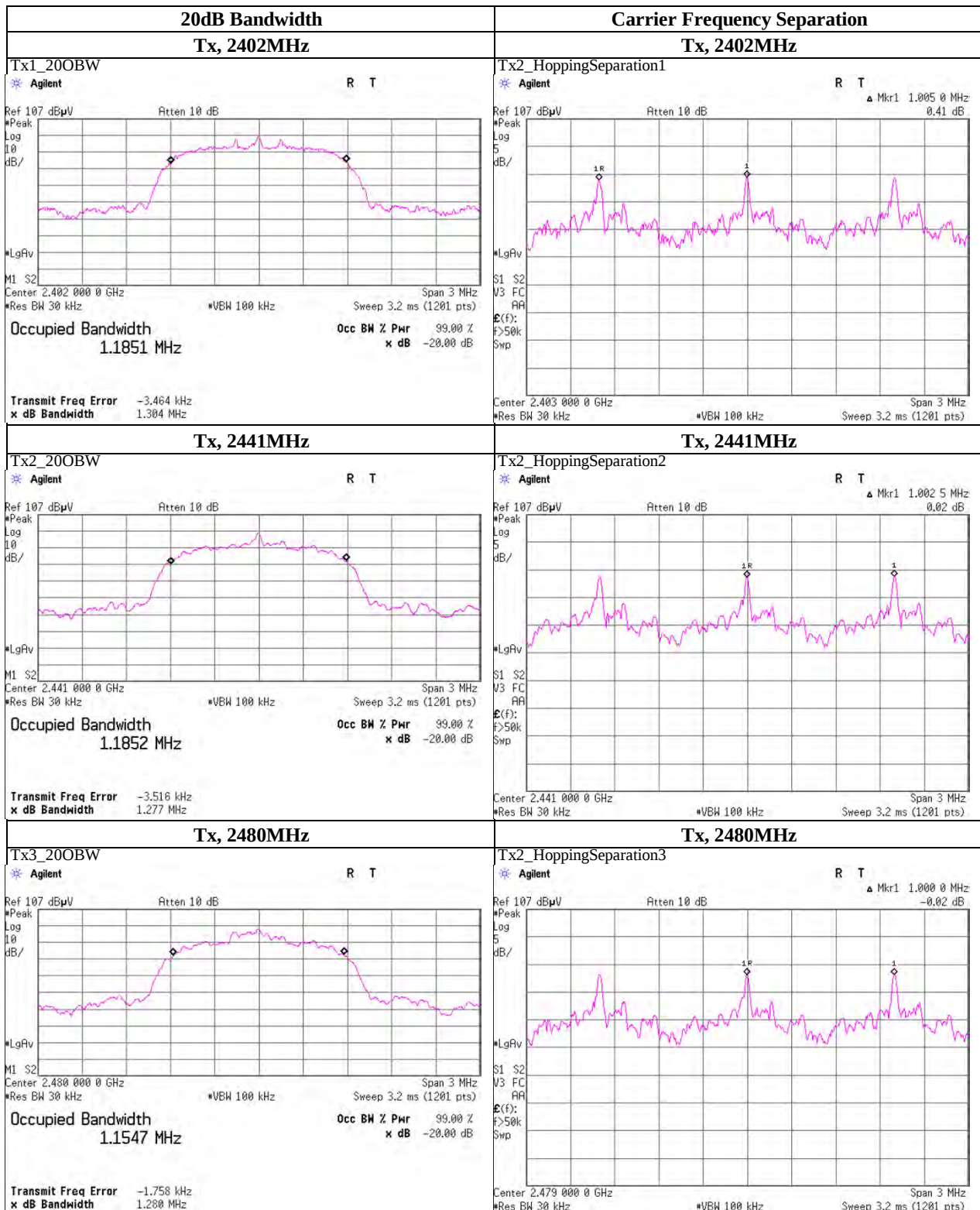
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20dB Bandwidth and Carrier Frequency Separation**Tx, Bluetooth, EDR, PRBS9****UL Japan, Inc.****Shonan EMC Lab.**

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

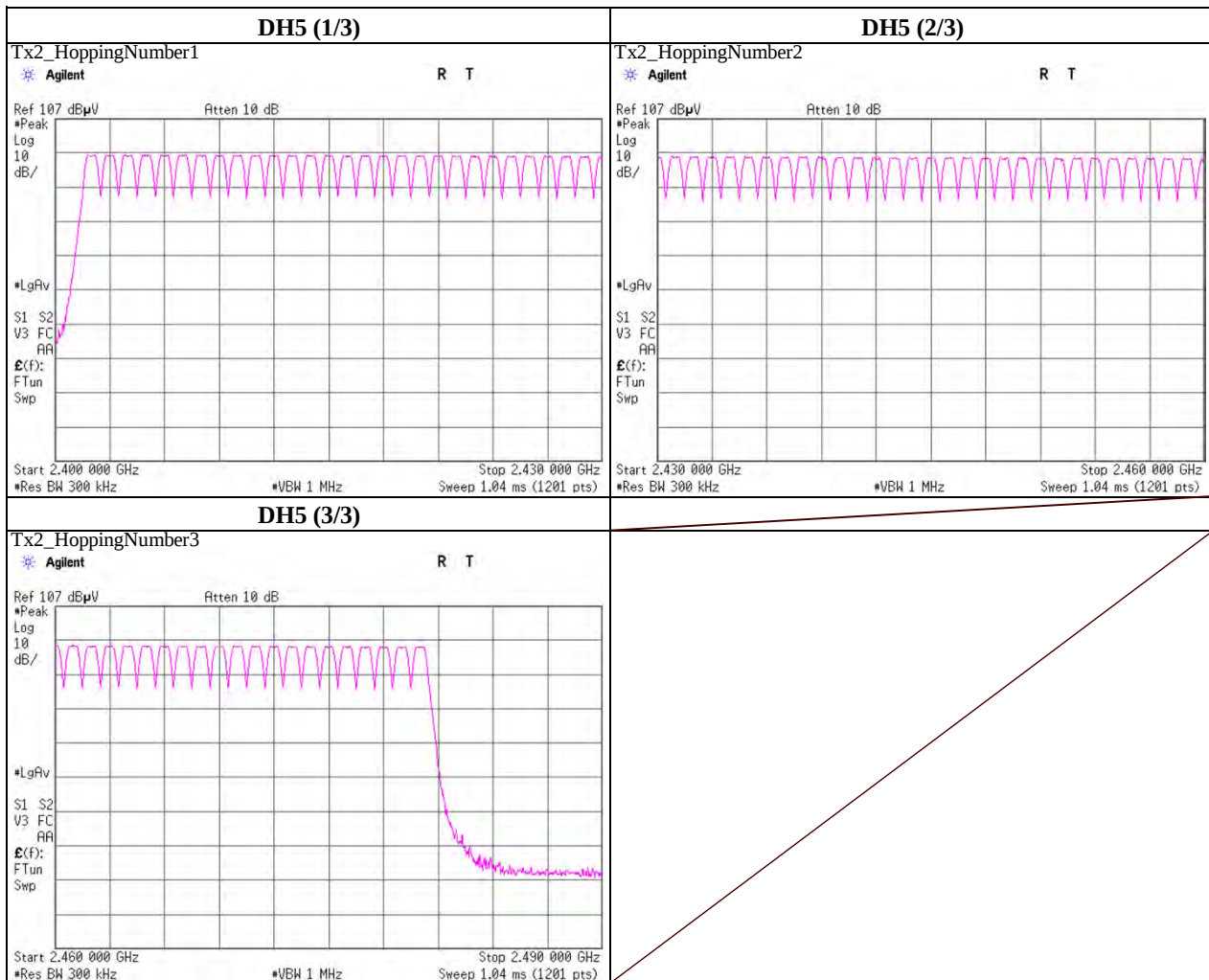
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Number of Hopping Frequency

Test place	UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
Date	January 27, 2012
Temperature / Humidity	23deg.C , 24%RH
Engineer	Hikaru Shirasawa
Mode	Tx, Bluetooth, BDR, PRBS9

Mode	Number of Channel [times]	Limit [times]
DH5	79	>= 15



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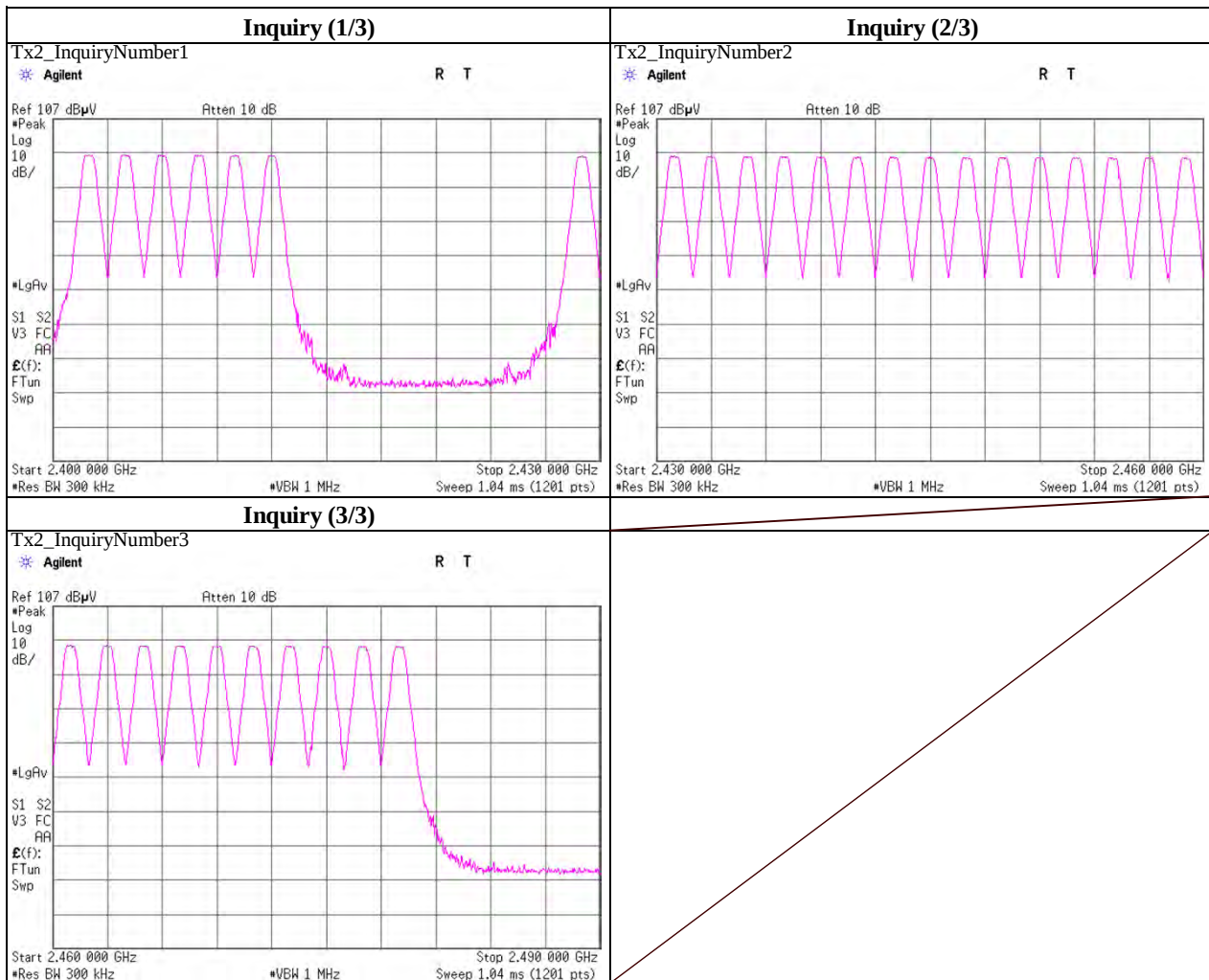
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Number of Hopping Frequency

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
Date January 27, 2012
Temperature / Humidity 23deg.C , 24%RH
Engineer Hikaru Shirasawa
Mode Tx, Bluetooth, Inquiry

Mode	Number of Channel [times]	Limit [times]
Inquiry	32	>= 15

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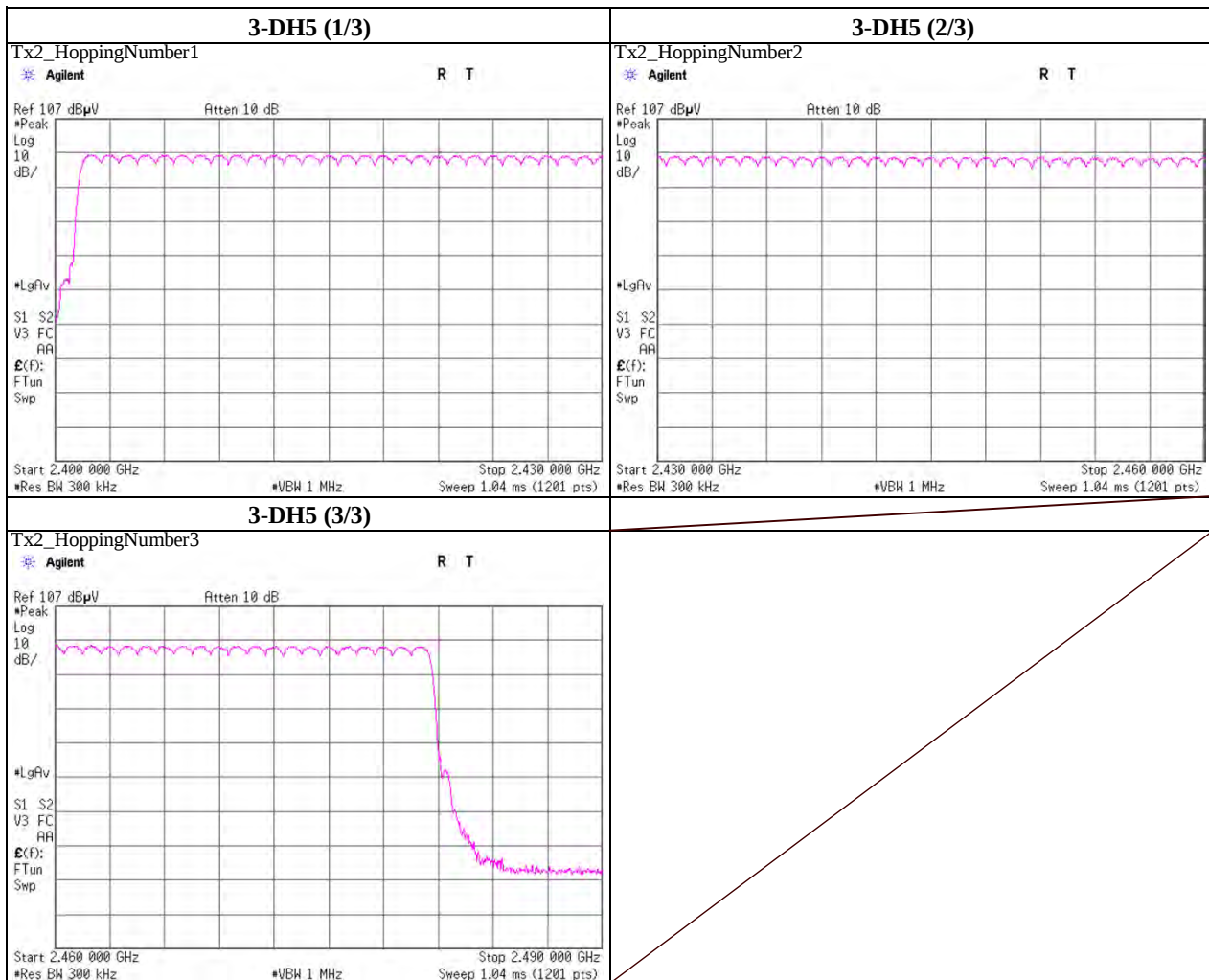
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Number of Hopping Frequency

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
Date January 27, 2012
Temperature / Humidity 23deg.C , 24%RH
Engineer Hikaru Shirasawa
Mode Tx, Bluetooth, EDR, PRBS9

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

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Dwell Time

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
 Date January 27, 2012
 Temperature / Humidity 23deg.C , 24%RH
 Engineer Hikaru Shirasawa
 Mode Tx, Bluetooth, BDR, PRBS9

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	49.6	/ 5.0 sec.	x 31.6 sec.	= 314 times	0.447	140	400
DH3	26.8	/ 5.0 sec.	x 31.6 sec.	= 170 times	1.707	290	400
DH5	20.4	/ 5.0 sec.	x 31.6 sec.	= 129 times	2.952	381	400
Inquiry	100.0	/ 1.0 sec.	x 12.8 sec.	= 1280 times	0.140	180	400

Sample Calculation

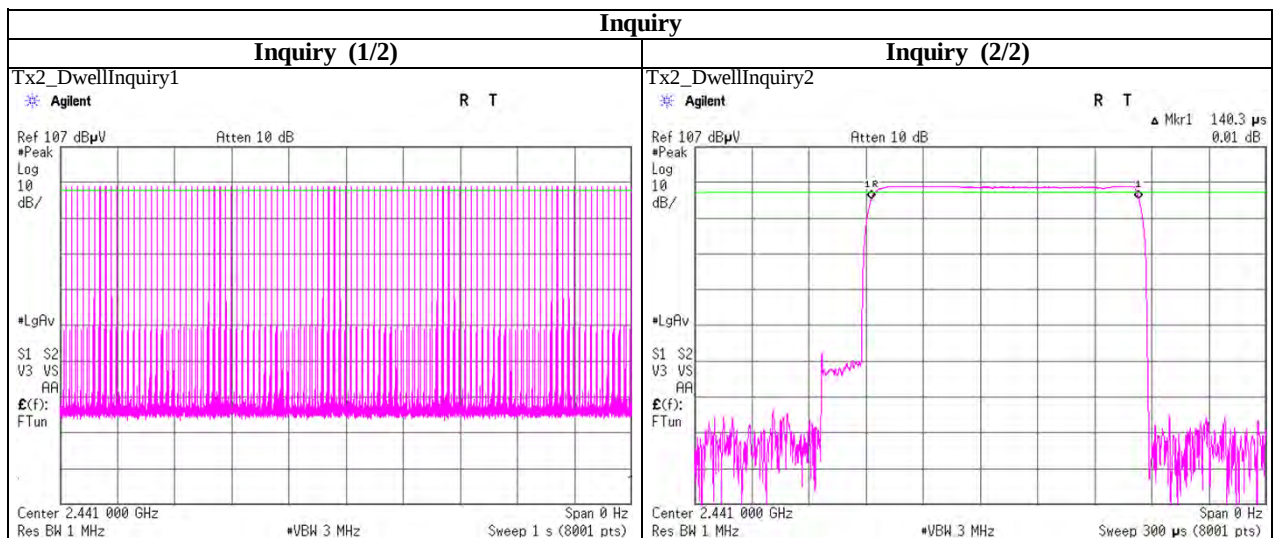
Result = Number of transmission x Length of transmission time

*Average data of 5 tests.(except Inquiry)

Mode	Sampling [times]					Average [times]
	1	2	3	4	5	
DH1	49	50	50	49	50	49.6
DH3	29	27	25	25	28	26.8
DH5	18	19	24	23	18	20.4
Inquiry	100	100	100	100	100	100.0

Sample Calculation

Average= Summation(Sampling 1 to 5) / 5



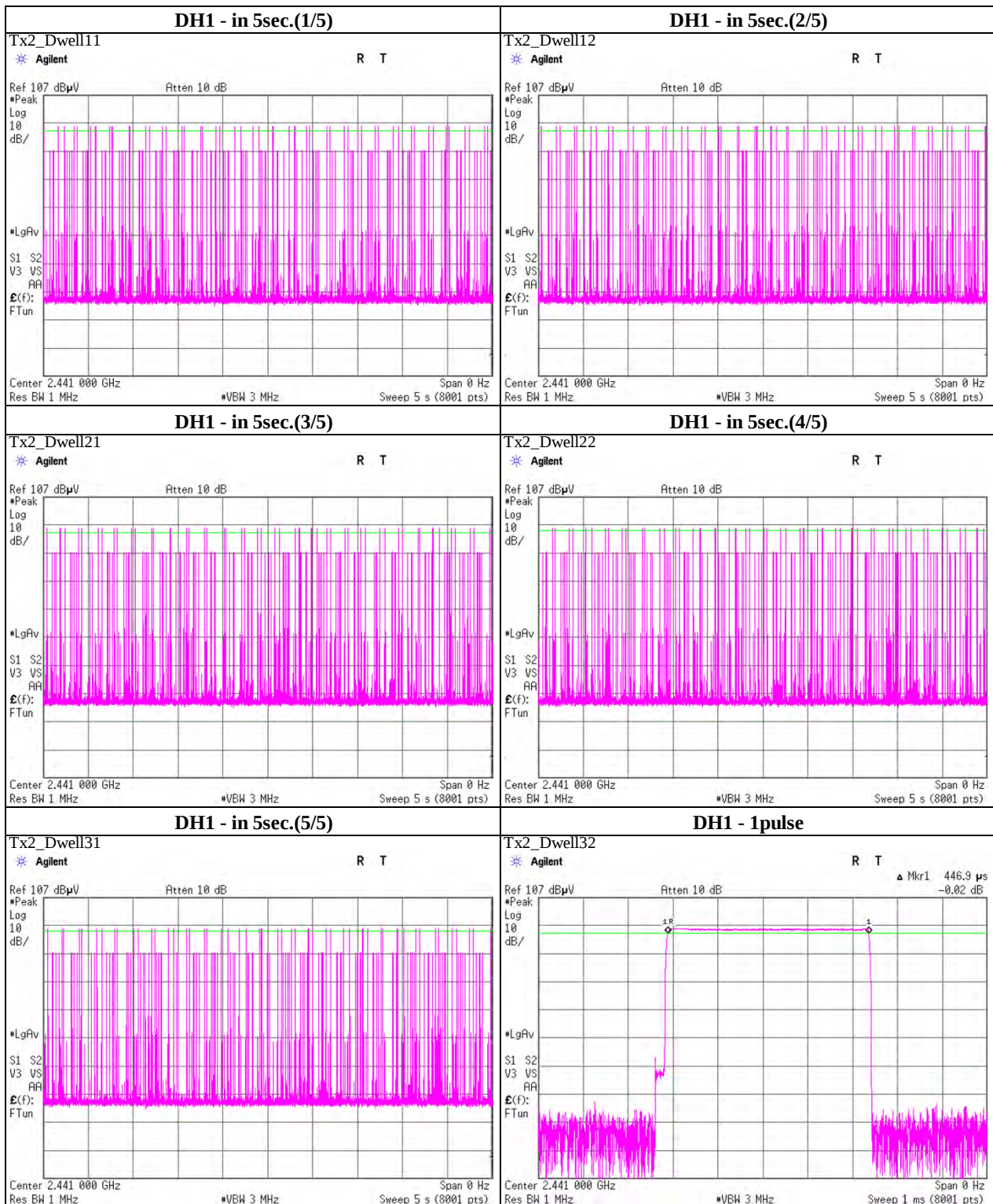
UL Japan, Inc.

Shonan EMC Lab.

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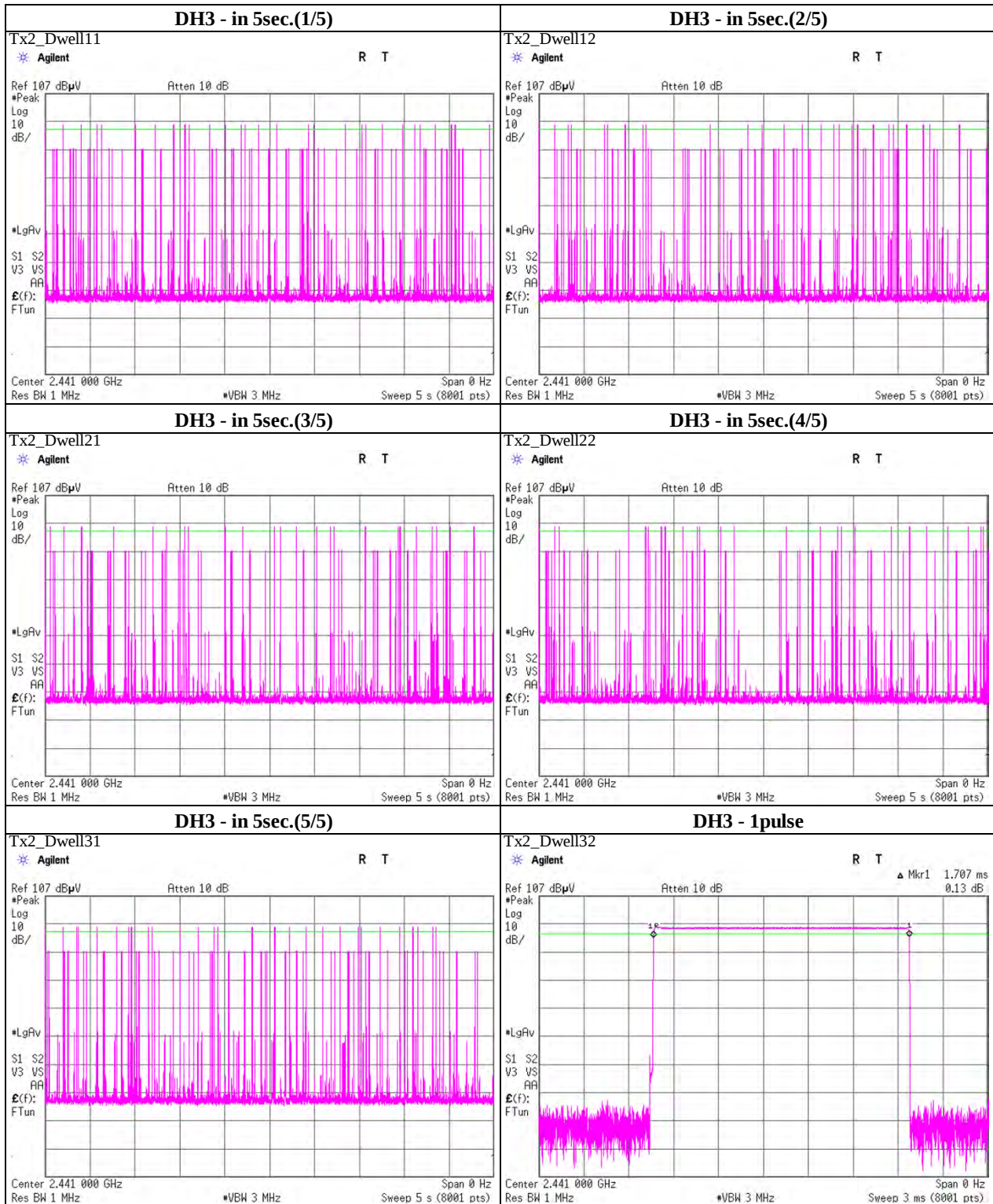
Facsimile : +81 463 50 6401

Dwell time**Tx, Bluetooth, BDR, PRBS9****UL Japan, Inc.****Shonan EMC Lab.**

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Dwell time**Tx, Bluetooth, BDR, PRBS9****UL Japan, Inc.****Shonan EMC Lab.**

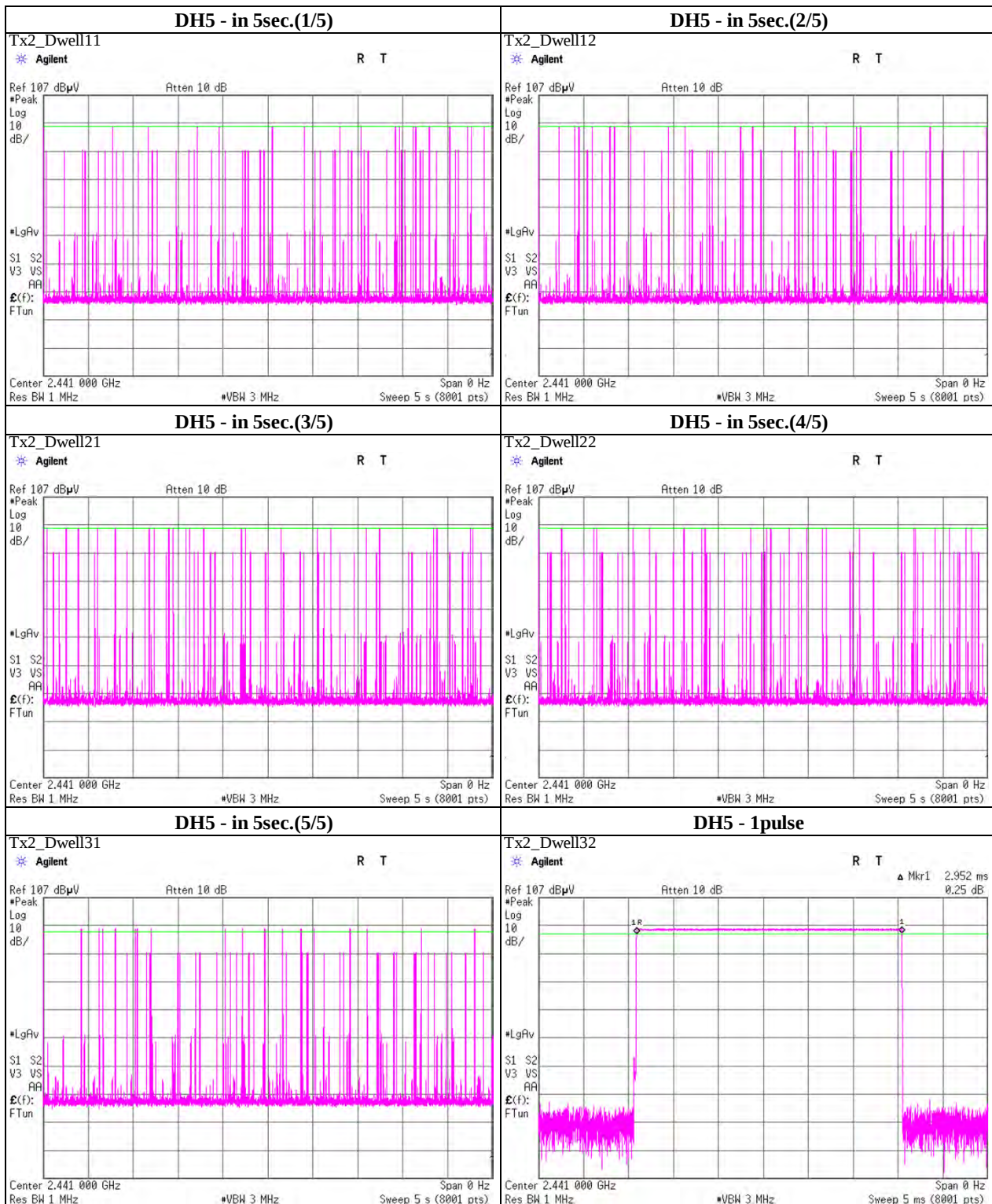
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

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Dwell time

Tx, Bluetooth, BDR, PRBS9



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Dwell Time

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
 Date January 27, 2012
 Temperature / Humidity 23deg.C , 24%RH
 Engineer Hikaru Shirasawa
 Mode Tx, Bluetooth, EDR, PRBS9

Mode	Number of transmission in a 31.6(79 Hopping x 0.4) second period					Length of transmission time [msec]	Result [msec]	Limit [msec]
3-DH1	49.8	/ 5.0 sec.	x	31.6 sec.	= 315 times	0.444	140	400
3-DH3	26.2	/ 5.0 sec.	x	31.6 sec.	= 166 times	1.697	282	400
3-DH5	18.6	/ 5.0 sec.	x	31.6 sec.	= 118 times	2.947	348	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	
3-DH1	49	49	50	50	51	49.8
3-DH3	23	25	25	28	30	26.2
3-DH5	21	19	21	17	15	18.6

Sample Calculation

Average= Summation(Sampling 1 to 5) / 5

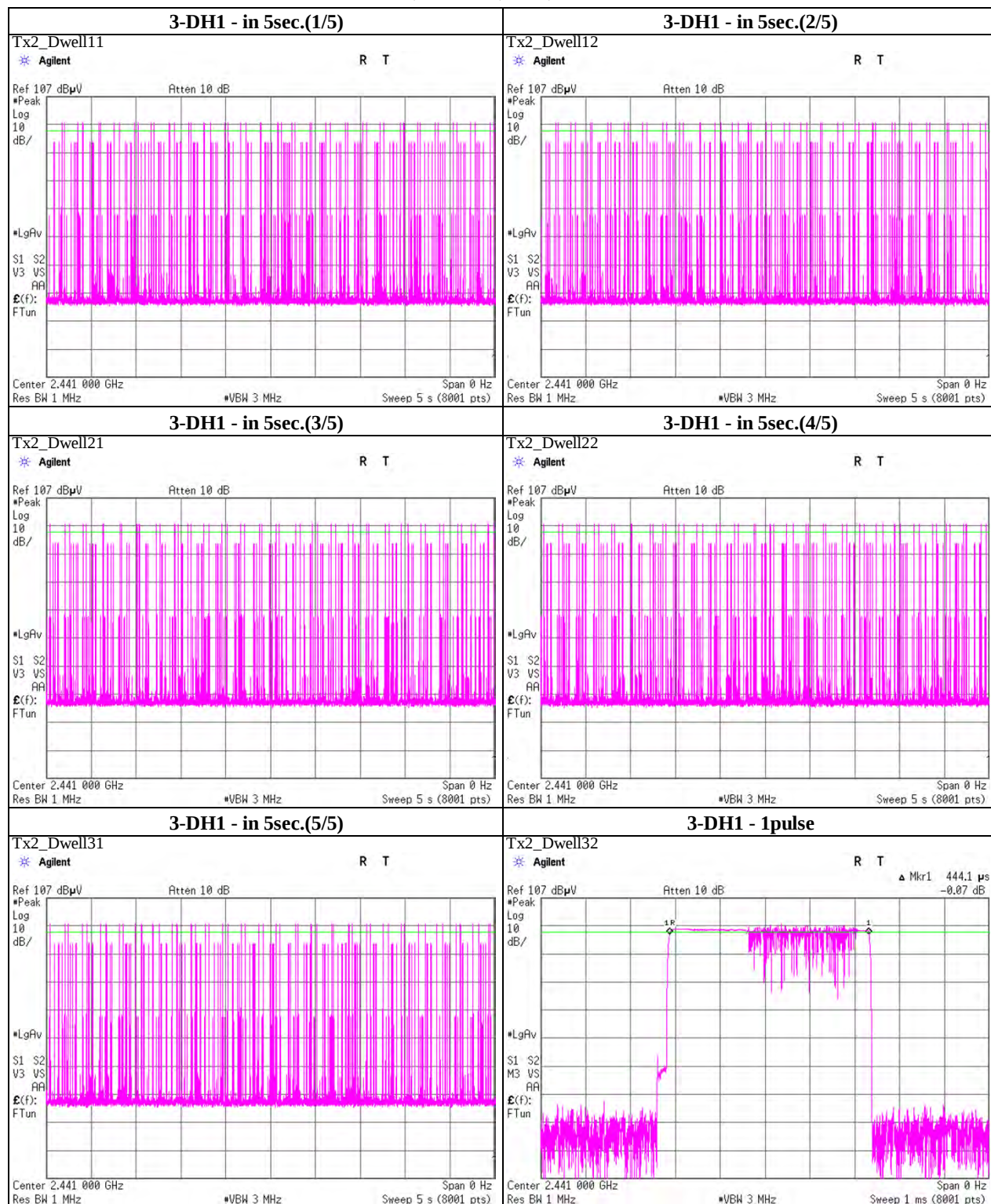
UL Japan, Inc.

Shonan EMC Lab.

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Dwell time**Tx, Bluetooth, EDR, PRBS9****UL Japan, Inc.****Shonan EMC Lab.**

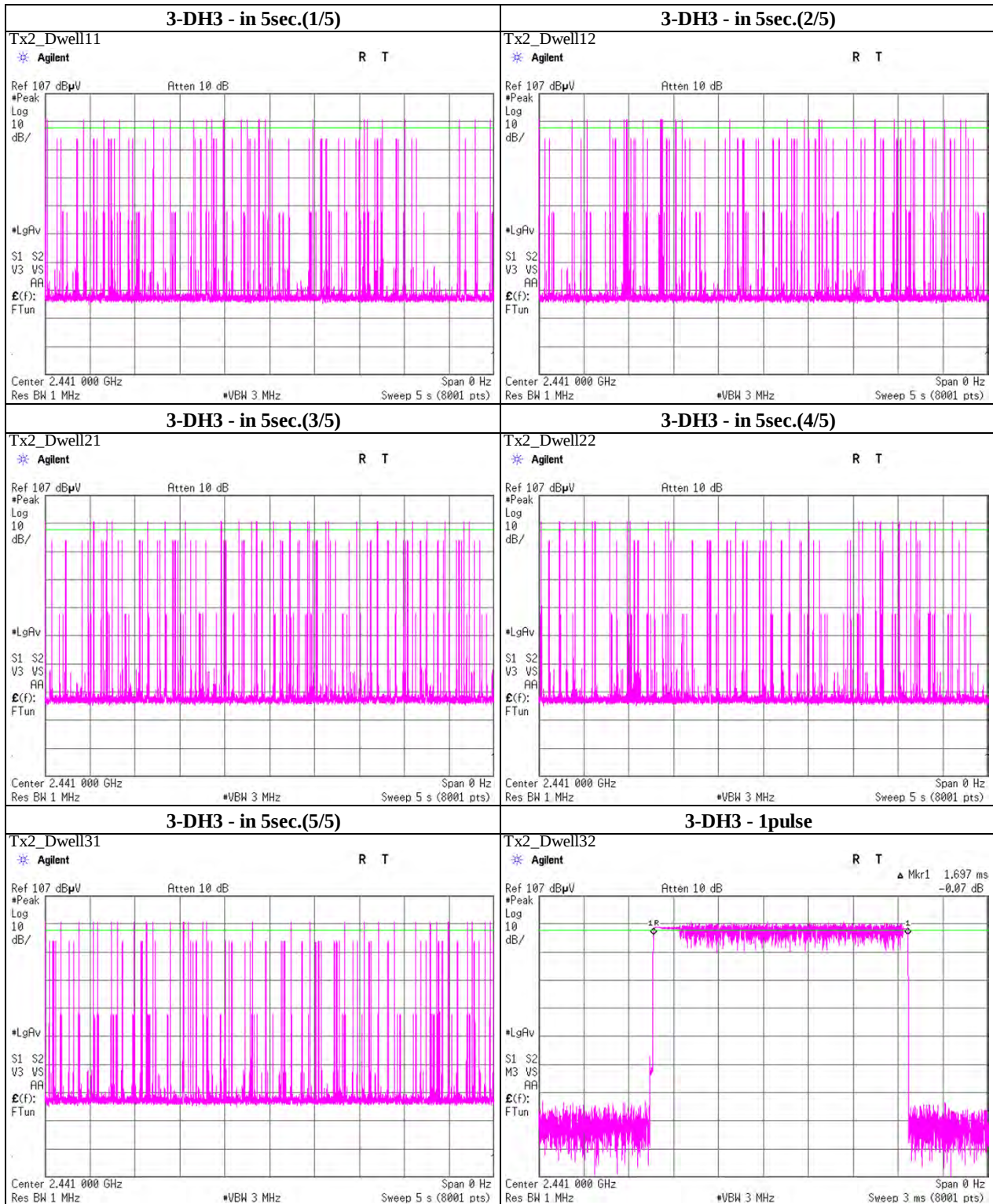
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

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Dwell time

Tx, Bluetooth, EDR, PRBS9



UL Japan, Inc.

Shonan EMC Lab.

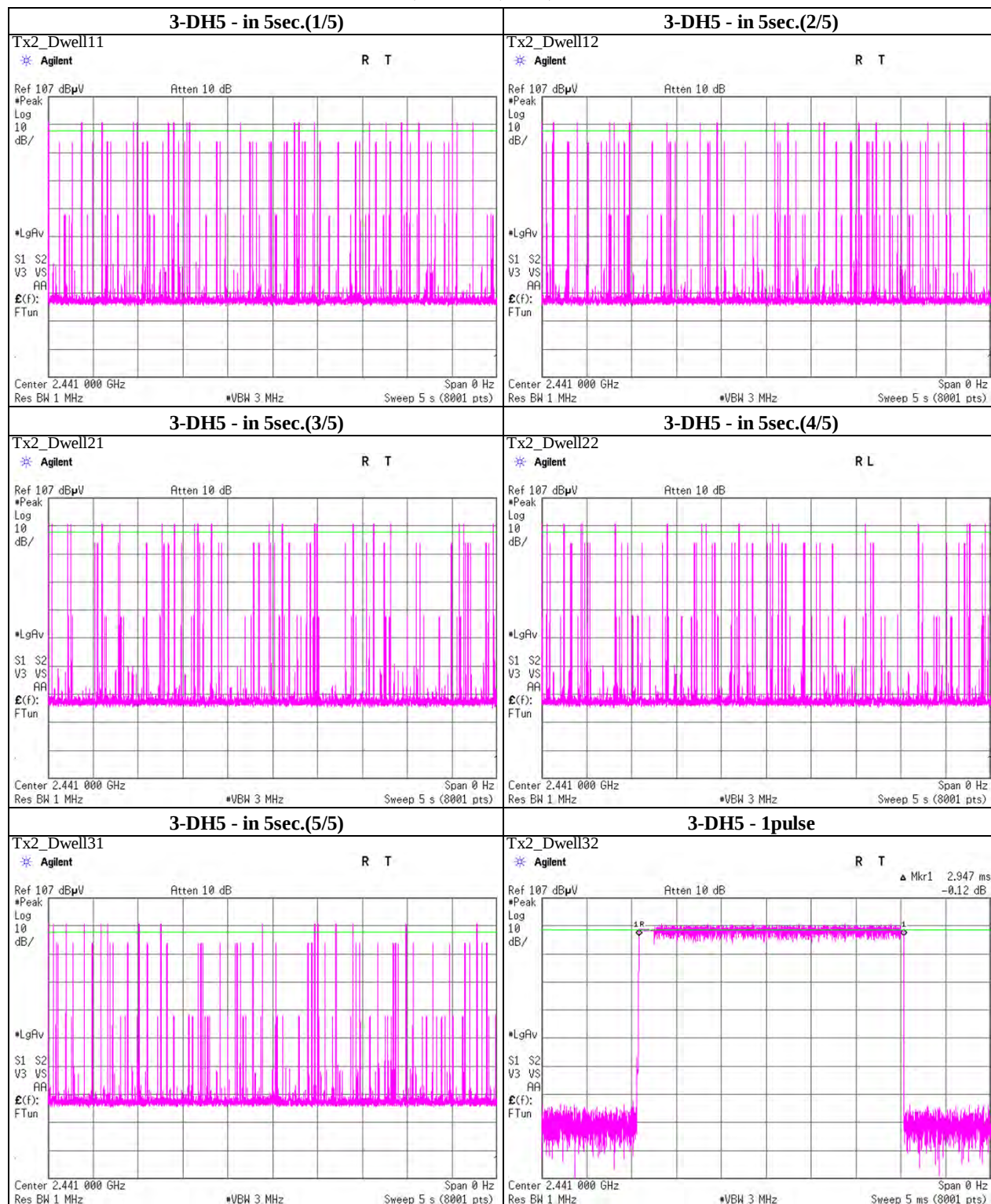
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

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Dwell time

Tx, Bluetooth, EDR, PRBS9



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Peak Output Power (Conducted)

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
 Date January 26 2012
 Temperature / Humidity 20deg.C , 24%RH
 Engineer Hikaru Shirasawa
 Mode Tx, Bluetooth

(* P/M: Power Meter with power sensor)

	Freq. [MHz]	P/M (Peak) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
DH5	2402.0	-10.52	2.18	9.57	1.23	1.33	20.97	125	19.74
DH5	2441.0	-11.09	2.19	9.57	0.67	1.17	20.97	125	20.30
DH5	2480.0	-11.73	2.20	9.57	0.04	1.01	20.97	125	20.93
2-DH5	2402.0	-8.85	2.18	9.57	2.90	1.95	20.97	125	18.07
2-DH5	2441.0	-9.47	2.19	9.57	2.29	1.69	20.97	125	18.68
2-DH5	2480.0	-10.08	2.20	9.57	1.69	1.48	20.97	125	19.28
3-DH5	2402.0	-8.47	2.18	9.57	3.28	2.13	20.97	125	17.69
3-DH5	2441.0	-9.08	2.19	9.57	2.68	1.85	20.97	125	18.29
3-DH5	2480.0	-9.67	2.20	9.57	2.10	1.62	20.97	125	18.87

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

UL Japan, Inc.
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1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab.

No.3 Semi Anechoic Chamber No.2 Semi Anechoic Chamber

Date January 26, 2012

January 27, 2012

Temperature / Humidity 21deg.C , 33%RH

20deg.C , 32%RH

Engineer Wataru Kojima

Wataru Kojima

Mode Tx, 2402 MHz

S/N: AABB000001CS

Tx, Bluetooth, BDR, PRBS9

(* PK: Peak, AV: Average, QP: Quasi-Peak)

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.	264.014	QP	35.6	17.6	10.0	31.7	31.5	46.0	14.5	124	76	
Hori.	360.020	QP	39.6	15.5	7.3	31.7	30.7	46.0	15.3	103	179	
Hori.	1439.987	PK	50.6	25.0	12.9	40.8	47.7	73.9	26.2	100	155	
Hori.	2390.000	PK	45.9	27.2	13.8	41.1	45.8	73.9	28.1	100	358	
Hori.	2397.933	PK	51.6	27.3	13.8	41.1	51.6	73.9	22.3	100	150	
Hori.	2400.000	PK	51.9	27.3	13.8	41.1	51.9	73.9	22.0	100	358	
Hori.	3360.143	PK	49.6	29.2	5.4	41.6	42.6	73.9	31.3	100	151	
Hori.	4804.000	PK	48.8	31.1	5.9	41.1	44.7	73.9	29.2	100	315	
Hori.	7206.000	PK	44.3	36.5	7.4	41.3	46.9	73.9	27.0	100	0	
Hori.	9608.000	PK	44.6	38.2	8.6	38.8	52.6	73.9	21.3	100	0	
Hori.	12010.000	PK	44.9	39.3	10.2	39.2	55.2	73.9	18.7	100	0	
Hori.	1439.987	AV	47.2	25.0	12.9	40.8	44.3	53.9	9.6	100	155	
Hori.	2390.000	AV	34.1	27.2	13.8	41.1	34.0	53.9	19.9	100	358	
Hori.	2397.933	AV	47.3	27.3	13.8	41.1	47.3	53.9	6.6	100	150	
Hori.	2400.000	AV	39.5	27.3	13.8	41.1	39.5	53.9	14.4	100	358	
Hori.	3360.143	AV	43.2	29.2	5.4	41.6	36.2	53.9	17.7	100	151	
Hori.	4804.000	AV	36.8	31.1	5.9	41.1	32.7	53.9	21.2	100	315	
Hori.	7206.000	AV	31.8	36.5	7.4	41.3	34.4	53.9	19.5	100	0	
Hori.	9608.000	AV	29.5	38.2	8.6	38.8	37.5	53.9	16.4	100	0	
Hori.	12010.000	AV	30.6	39.3	10.2	39.2	40.9	53.9	13.0	100	0	
Vert.	576.011	QP	39.9	18.8	8.5	31.6	35.6	46.0	10.4	100	199	
Vert.	768.016	QP	32.4	20.6	9.4	31.4	31.0	46.0	15.0	100	43	
Vert.	960.000	QP	31.1	22.6	10.3	30.5	33.5	46.0	12.5	100	29	
Vert.	1439.987	PK	47.1	25.0	12.9	40.8	44.2	73.9	29.7	100	205	
Vert.	2390.000	PK	46.5	27.2	13.8	41.1	46.4	73.9	27.5	100	72	
Vert.	2397.933	PK	47.9	27.3	13.8	41.1	47.9	73.9	26.0	100	67	
Vert.	2400.000	PK	48.1	27.3	13.8	41.1	48.1	73.9	25.8	100	0	
Vert.	4804.000	PK	49.2	31.1	5.9	41.1	45.1	73.9	28.8	100	10	
Vert.	7206.000	PK	41.4	36.5	7.4	41.3	44.0	73.9	29.9	100	0	
Vert.	9608.000	PK	43.8	38.2	8.6	38.8	51.8	73.9	22.1	100	0	
Vert.	12010.000	PK	44.5	39.3	10.2	39.2	54.8	73.9	19.1	100	0	
Vert.	1439.987	AV	42.8	25.0	12.9	40.8	39.9	53.9	14.0	100	205	
Vert.	2390.000	AV	34.1	27.2	13.8	41.1	34.0	53.9	19.9	100	72	
Vert.	2397.933	AV	38.9	27.3	13.8	41.1	38.9	53.9	15.0	100	67	
Vert.	2400.000	AV	35.5	27.3	13.8	41.1	35.5	53.9	18.4	100	0	
Vert.	4804.000	AV	37.5	31.1	5.9	41.1	33.4	53.9	20.5	100	10	
Vert.	7206.000	AV	31.8	36.5	7.4	41.3	34.4	53.9	19.5	100	0	
Vert.	9608.000	AV	29.4	38.2	8.6	38.8	37.4	53.9	16.5	100	0	
Vert.	12010.000	AV	30.6	39.3	10.2	39.2	40.9	53.9	13.0	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)

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

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

Telephone : +81 463 50 6400

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab.

No.3 Semi Anechoic Chamber No.2 Semi Anechoic Chamber

Date January 26, 2012

January 27, 2012

Temperature / Humidity 21deg.C , 33%RH

20deg.C , 32%RH

Engineer Wataru Kojima

Wataru Kojima

Mode Tx, 2441 MHz

S/N: AAB000001CS

Tx, Bluetooth, BDR, PRBS9

(* PK: Peak, AV: Average, QP: Quasi-Peak)

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.	264.014	QP	35.9	17.6	10.0	31.7	31.8	46.0	14.2	150	69	
Hori.	360.192	QP	34.6	15.5	7.3	31.7	25.7	46.0	20.3	100	182	
Hori.	1440.182	PK	51.8	25.0	12.9	40.8	48.9	73.9	25.0	100	155	
Hori.	3360.143	PK	50.2	29.2	5.4	41.6	43.2	73.9	30.7	100	152	
Hori.	4882.000	PK	46.3	31.2	5.9	40.9	42.5	73.9	31.4	100	310	
Hori.	7323.000	PK	44.8	36.8	7.5	41.4	47.7	73.9	26.2	100	0	
Hori.	9764.000	PK	42.8	38.5	8.6	38.8	51.1	73.9	22.8	100	0	
Hori.	12205.000	PK	43.5	39.3	10.2	39.2	53.8	73.9	20.1	100	0	
Hori.	1440.182	AV	48.3	25.0	12.9	40.8	45.4	53.9	8.5	100	155	
Hori.	3360.143	AV	42.0	29.2	5.4	41.6	35.0	53.9	18.9	100	152	
Hori.	4882.000	AV	36.8	31.2	5.9	40.9	33.0	53.9	20.9	100	310	
Hori.	7323.000	AV	31.9	36.8	7.5	41.4	34.8	53.9	19.1	100	0	
Hori.	9764.000	AV	29.9	38.5	8.6	38.8	38.2	53.9	15.7	100	0	
Hori.	12205.000	AV	30.8	39.3	10.2	39.2	41.1	53.9	12.8	100	0	
Vert.	576.009	QP	40.0	18.8	8.5	31.6	35.7	46.0	10.3	100	205	
Vert.	768.012	QP	32.5	20.6	9.4	31.4	31.1	46.0	14.9	100	72	
Vert.	960.000	QP	30.5	22.6	10.3	30.5	32.9	46.0	13.1	100	12	
Vert.	1440.182	PK	49.7	25.0	12.9	40.8	46.8	73.9	27.1	100	207	
Vert.	4882.000	PK	46.2	31.2	5.9	40.9	42.4	73.9	31.5	100	5	
Vert.	7323.000	PK	44.6	36.8	7.5	41.4	47.5	73.9	26.4	100	0	
Vert.	9764.000	PK	43.2	38.5	8.6	38.8	51.5	73.9	22.4	100	0	
Vert.	12205.000	PK	43.7	39.3	10.2	39.2	54.0	73.9	19.9	100	0	
Vert.	1440.182	AV	44.2	25.0	12.9	40.8	41.3	53.9	12.6	100	207	
Vert.	4882.000	AV	34.6	31.2	5.9	40.9	30.8	53.9	23.1	100	5	
Vert.	7323.000	AV	31.9	36.8	7.5	41.4	34.8	53.9	19.1	100	0	
Vert.	9764.000	AV	29.8	38.5	8.6	38.8	38.1	53.9	15.8	100	0	
Vert.	12205.000	AV	30.8	39.3	10.2	39.2	41.1	53.9	12.8	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)

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

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab.
 No.3 Semi Anechoic Chamber No.2 Semi Anechoic Chamber
 Date January 26, 2012 January 27, 2012
 Temperature / Humidity 21deg.C , 33%RH 20deg.C , 32%RH
 Engineer Wataru Kojima Wataru Kojima
 Mode Tx, 2480 MHz S/N: AABB000001CS
 Tx, Bluetooth, BDR, PRBS9

(* PK: Peak, AV: Average, QP: Quasi-Peak)

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.	264.085	QP	35.5	17.6	10.0	31.7	31.4	46.0	14.6	150	66	
Hori.	360.024	QP	38.8	15.5	7.3	31.7	29.9	46.0	16.1	100	68	
Hori.	1439.973	PK	53.1	25.0	12.9	40.8	50.2	73.9	23.7	100	158	
Hori.	2483.500	PK	47.5	27.5	13.8	41.1	47.7	73.9	26.2	100	355	
Hori.	2483.942	PK	51.1	27.5	13.8	41.1	51.3	73.9	22.6	100	355	
Hori.	3359.969	PK	49.6	29.2	5.4	41.6	42.6	73.9	31.3	100	151	
Hori.	4960.000	PK	47.5	31.4	5.9	40.8	44.0	73.9	29.9	100	316	
Hori.	7440.000	PK	47.9	37.0	7.5	41.5	50.9	73.9	23.0	100	0	
Hori.	9920.000	PK	43.5	38.8	8.6	38.8	52.1	73.9	21.8	100	0	
Hori.	12400.000	PK	44.7	39.4	10.1	39.2	55.0	73.9	18.9	100	0	
Hori.	1439.973	AV	48.5	25.0	12.9	40.8	45.6	53.9	8.3	100	158	
Hori.	2483.500	AV	35.5	27.5	13.8	41.1	35.7	53.9	18.2	100	355	
Hori.	2483.942	AV	39.3	27.5	13.8	41.1	39.5	53.9	14.4	100	355	
Hori.	3359.969	AV	44.6	29.2	5.4	41.6	37.6	53.9	16.3	100	151	
Hori.	4960.000	AV	36.7	31.4	5.9	40.8	33.2	53.9	20.7	100	316	
Hori.	7440.000	AV	34.0	37.0	7.5	41.5	37.0	53.9	16.9	100	0	
Hori.	9920.000	AV	31.0	38.8	8.6	38.8	39.6	53.9	14.3	100	0	
Hori.	12400.000	AV	31.1	39.4	10.1	39.2	41.4	53.9	12.5	100	0	
Vert.	576.013	QP	40.3	18.8	8.5	31.6	36.0	46.0	10.0	100	209	
Vert.	768.014	QP	32.7	20.6	9.4	31.4	31.3	46.0	14.7	100	48	
Vert.	960.000	QP	30.9	22.6	10.3	30.5	33.3	46.0	12.7	100	29	
Vert.	1439.973	PK	51.0	25.0	12.9	40.8	48.1	73.9	25.8	100	208	
Vert.	2483.500	PK	47.7	27.5	13.8	41.1	47.9	73.9	26.0	100	0	
Vert.	2483.942	PK	51.0	27.5	13.8	41.1	51.2	73.9	22.7	100	0	
Vert.	4960.000	PK	48.2	31.4	5.9	40.8	44.7	73.9	29.2	100	11	
Vert.	7440.000	PK	46.5	37.0	7.5	41.5	49.5	73.9	24.4	100	0	
Vert.	9920.000	PK	43.6	38.8	8.6	38.8	52.2	73.9	21.7	100	0	
Vert.	12400.000	PK	46.2	39.4	10.1	39.2	56.5	73.9	17.4	100	0	
Vert.	1439.973	AV	44.5	25.0	12.9	40.8	41.6	53.9	12.3	100	208	
Vert.	2483.500	AV	35.4	27.5	13.8	41.1	35.6	53.9	18.3	100	0	
Vert.	2483.942	AV	39.2	27.5	13.8	41.1	39.4	53.9	14.5	100	0	
Vert.	4960.000	AV	36.9	31.4	5.9	40.8	33.4	53.9	20.5	100	11	
Vert.	7440.000	AV	33.0	37.0	7.5	41.5	36.0	53.9	17.9	100	0	
Vert.	9920.000	AV	30.0	38.8	8.6	38.8	38.6	53.9	15.3	100	0	
Vert.	12400.000	AV	31.1	39.4	10.1	39.2	41.4	53.9	12.5	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)

Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab.

No.3 Semi Anechoic Chamber No.2 Semi Anechoic Chamber

Date January 26, 2012

January 27, 2012

Temperature / Humidity 21deg.C , 33%RH

20deg.C , 32%RH

Engineer Wataru Kojima

Wataru Kojima

Mode Tx, 2402 MHz

S/N: AAB000001CS

Tx, Bluetooth, EDR, PRBS9

(* PK: Peak, AV: Average, QP: Quasi-Peak)

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.	264.018	QP	34.7	17.6	10.0	31.7	30.6	46.0	15.4	131	180	
Hori.	360.028	QP	38.9	15.5	7.3	31.7	30.0	46.0	16.0	100	177	
Hori.	1439.989	PK	51.6	25.0	12.9	40.8	48.7	73.9	25.2	100	155	
Hori.	2390.000	PK	46.2	27.2	13.8	41.1	46.1	73.9	27.8	100	355	
Hori.	2399.400	PK	53.7	27.3	13.8	41.1	53.7	73.9	20.2	100	150	
Hori.	2400.000	PK	56.2	27.3	13.8	41.1	56.2	73.9	17.7	100	355	
Hori.	3359.958	PK	48.8	29.2	5.4	41.6	41.8	73.9	32.1	100	152	
Hori.	4804.000	PK	48.4	31.1	5.9	41.1	44.3	73.9	29.6	100	314	
Hori.	7206.000	PK	45.4	36.5	7.4	41.3	48.0	73.9	25.9	100	0	
Hori.	9608.000	PK	44.5	38.2	8.6	38.8	52.5	73.9	21.4	100	0	
Hori.	12010.000	PK	43.7	39.3	10.2	39.2	54.0	73.9	19.9	100	0	
Hori.	1439.989	AV	47.4	25.0	12.9	40.8	44.5	53.9	9.4	100	155	
Hori.	2390.000	AV	34.6	27.2	13.8	41.1	34.5	53.9	19.4	100	355	
Hori.	2399.400	AV	47.8	27.3	13.8	41.1	47.8	53.9	6.1	100	150	
Hori.	2400.000	AV	42.0	27.3	13.8	41.1	42.0	53.9	11.9	100	355	
Hori.	3359.958	AV	40.7	29.2	5.4	41.6	33.7	53.9	20.2	100	152	
Hori.	4804.000	AV	37.5	31.1	5.9	41.1	33.4	53.9	20.5	100	314	
Hori.	7206.000	AV	31.7	36.5	7.4	41.3	34.3	53.9	19.6	100	0	
Hori.	9608.000	AV	30.2	38.2	8.6	38.8	38.2	53.9	15.7	100	0	
Hori.	12010.000	AV	30.6	39.3	10.2	39.2	40.9	53.9	13.0	100	0	
Vert.	576.010	QP	40.4	18.8	8.5	31.6	36.1	46.0	9.9	100	205	
Vert.	768.016	QP	32.7	20.6	9.4	31.4	31.3	46.0	14.7	100	52	
Vert.	960.000	QP	30.8	22.6	10.3	30.5	33.2	46.0	12.8	103	18	
Vert.	1439.989	PK	50.3	25.0	12.9	40.8	47.4	73.9	26.5	100	205	
Vert.	2390.000	PK	47.4	27.2	13.8	41.1	47.3	73.9	26.6	100	69	
Vert.	2399.400	PK	51.6	27.3	13.8	41.1	51.6	73.9	22.3	100	75	
Vert.	2400.000	PK	50.4	27.3	13.8	41.1	50.4	73.9	23.5	100	0	
Vert.	4804.000	PK	49.1	31.1	5.9	41.1	45.0	73.9	28.9	100	14	
Vert.	7206.000	PK	45.5	36.5	7.4	41.3	48.1	73.9	25.8	100	0	
Vert.	9608.000	PK	44.2	38.2	8.6	38.8	52.2	73.9	21.7	100	0	
Vert.	12010.000	PK	45.3	39.3	10.2	39.2	55.6	73.9	18.3	100	0	
Vert.	1439.989	AV	44.9	25.0	12.9	40.8	42.0	53.9	11.9	100	205	
Vert.	2390.000	AV	34.6	27.2	13.8	41.1	34.5	53.9	19.4	100	69	
Vert.	2399.400	AV	39.2	27.3	13.8	41.1	39.2	53.9	14.7	100	75	
Vert.	2400.000	AV	36.9	27.3	13.8	41.1	36.9	53.9	17.0	100	0	
Vert.	4804.000	AV	38.6	31.1	5.9	41.1	34.5	53.9	19.4	100	14	
Vert.	7206.000	AV	31.8	36.5	7.4	41.3	34.4	53.9	19.5	100	0	
Vert.	9608.000	AV	30.2	38.2	8.6	38.8	38.2	53.9	15.7	100	0	
Vert.	12010.000	AV	30.6	39.3	10.2	39.2	40.9	53.9	13.0	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)

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

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Facsimile : +81 463 50 6401

Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab.

No.3 Semi Anechoic Chamber No.2 Semi Anechoic Chamber

Date January 26, 2012

January 27, 2012

Temperature / Humidity 21deg.C , 33%RH

20deg.C , 32%RH

Engineer Wataru Kojima

Wataru Kojima

Mode Tx, 2441 MHz

S/N: AAB000001CS

Tx, Bluetooth, EDR, PRBS9

(* PK: Peak, AV: Average, QP: Quasi-Peak)

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.	264.018	QP	36.1	17.6	10.0	31.7	32.0	46.0	14.0	127	72	
Hori.	360.023	QP	39.1	15.5	7.3	31.7	30.2	46.0	15.8	100	175	
Hori.	1439.997	PK	52.0	25.0	12.9	40.8	49.1	73.9	24.8	100	157	
Hori.	3359.989	PK	49.9	29.2	5.4	41.6	42.9	73.9	31.0	100	154	
Hori.	4882.000	PK	47.8	31.2	5.9	40.9	44.0	73.9	29.9	100	315	
Hori.	7323.000	PK	46.2	36.8	7.5	41.4	49.1	73.9	24.8	100	0	
Hori.	9764.000	PK	41.9	38.5	8.6	38.8	50.2	73.9	23.7	100	0	
Hori.	12205.000	PK	43.4	39.3	10.2	39.2	53.7	73.9	20.2	100	0	
Hori.	1439.997	AV	47.7	25.0	12.9	40.8	44.8	53.9	9.1	100	157	
Hori.	3359.989	AV	41.3	29.2	5.4	41.6	34.3	53.9	19.6	100	154	
Hori.	4882.000	AV	37.9	31.2	5.9	40.9	34.1	53.9	19.8	100	315	
Hori.	7323.000	AV	33.2	36.8	7.5	41.4	36.1	53.9	17.8	100	0	
Hori.	9764.000	AV	31.3	38.5	8.6	38.8	39.6	53.9	14.3	100	0	
Hori.	12205.000	AV	30.8	39.3	10.2	39.2	41.1	53.9	12.8	100	0	
Vert.	576.012	QP	40.4	18.8	8.5	31.6	36.1	46.0	9.9	103	204	
Vert.	768.288	QP	32.7	20.6	9.4	31.4	31.3	46.0	14.7	100	51	
Vert.	960.000	QP	30.7	22.6	10.3	30.5	33.1	46.0	12.9	100	26	
Vert.	1439.997	PK	51.1	25.0	12.9	40.8	48.2	73.9	25.7	100	208	
Vert.	4882.000	PK	46.9	31.2	5.9	40.9	43.1	73.9	30.8	100	4	
Vert.	7323.000	PK	44.6	36.8	7.5	41.4	47.5	73.9	26.4	100	0	
Vert.	9764.000	PK	41.9	38.5	8.6	38.8	50.2	73.9	23.7	100	0	
Vert.	12205.000	PK	43.0	39.3	10.2	39.2	53.3	73.9	20.6	100	0	
Vert.	1439.997	AV	44.3	25.0	12.9	40.8	41.4	53.9	12.5	100	208	
Vert.	4882.000	AV	36.2	31.2	5.9	40.9	32.4	53.9	21.5	100	4	
Vert.	7323.000	AV	33.3	36.8	7.5	41.4	36.2	53.9	17.7	100	0	
Vert.	9764.000	AV	31.2	38.5	8.6	38.8	39.5	53.9	14.4	100	0	
Vert.	12205.000	AV	30.7	39.3	10.2	39.2	41.0	53.9	12.9	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)

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab.

No.3 Semi Anechoic Chamber No.2 Semi Anechoic Chamber

Date January 26, 2012

January 27, 2012

Temperature / Humidity 21deg.C , 33%RH

20deg.C , 32%RH

Engineer Wataru Kojima

Wataru Kojima

Mode Tx, 2480 MHz

S/N: AAB000001CS

Tx, Bluetooth, EDR, PRBS9

(* PK: Peak, AV: Average, QP: Quasi-Peak)

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.	264.018	QP	36.2	17.6	10.0	31.7	32.1	46.0	13.9	126	75	
Hori.	360.021	QP	38.7	15.5	7.3	31.7	29.8	46.0	16.2	100	178	
Hori.	1439.997	PK	51.9	25.0	12.9	40.8	49.0	73.9	24.9	100	156	
Hori.	2483.500	PK	46.0	27.5	13.8	41.1	46.2	73.9	27.7	100	63	
Hori.	2484.025	PK	46.4	27.5	13.8	41.1	46.6	73.9	27.3	100	63	
Hori.	3359.963	PK	50.0	29.2	5.4	41.6	43.0	73.9	30.9	100	154	
Hori.	4960.000	PK	46.8	31.4	5.9	40.8	43.3	73.9	30.6	100	313	
Hori.	7440.000	PK	45.8	37.0	7.5	41.5	48.8	73.9	25.1	100	0	
Hori.	9920.000	PK	42.4	38.8	8.6	38.8	51.0	73.9	22.9	100	0	
Hori.	12400.000	PK	44.2	39.4	10.1	39.2	54.5	73.9	19.4	100	0	
Hori.	1439.997	AV	47.7	25.0	12.9	40.8	44.8	53.9	9.1	100	156	
Hori.	2483.500	AV	32.3	27.5	13.8	41.1	32.5	53.9	21.4	100	63	
Hori.	2484.025	AV	33.2	27.5	13.8	41.1	33.4	53.9	20.5	100	63	
Hori.	3359.963	AV	40.7	29.2	5.4	41.6	33.7	53.9	20.2	100	154	
Hori.	4960.000	AV	35.4	31.4	5.9	40.8	31.9	53.9	22.0	100	313	
Hori.	7440.000	AV	32.3	37.0	7.5	41.5	35.3	53.9	18.6	100	0	
Hori.	9920.000	AV	29.0	38.8	8.6	38.8	37.6	53.9	16.3	100	0	
Hori.	12400.000	AV	31.0	39.4	10.1	39.2	41.3	53.9	12.6	100	0	
Vert.	576.013	QP	40.5	18.8	8.5	31.6	36.2	46.0	9.8	100	206	
Vert.	768.014	QP	32.9	20.6	9.4	31.4	31.5	46.0	14.5	100	43	
Vert.	960.000	QP	30.5	22.6	10.3	30.5	32.9	46.0	13.1	100	29	
Vert.	1439.997	PK	49.4	25.0	12.9	40.8	46.5	73.9	27.4	100	208	
Vert.	2483.500	PK	47.0	27.5	13.8	41.1	47.2	73.9	26.7	100	115	
Vert.	2484.025	PK	45.8	27.5	13.8	41.1	46.0	73.9	27.9	100	115	
Vert.	4960.000	PK	47.4	31.4	5.9	40.8	43.9	73.9	30.0	100	118	
Vert.	7440.000	PK	45.6	37.0	7.5	41.5	48.6	73.9	25.3	100	0	
Vert.	9920.000	PK	42.3	38.8	8.6	38.8	50.9	73.9	23.0	100	0	
Vert.	12400.000	PK	45.4	39.4	10.1	39.2	55.7	73.9	18.2	100	0	
Vert.	1439.997	AV	44.2	25.0	12.9	40.8	41.3	53.9	12.6	100	208	
Vert.	2483.500	AV	34.0	27.5	13.8	41.1	34.2	53.9	19.7	100	115	
Vert.	2484.025	AV	33.3	27.5	13.8	41.1	33.5	53.9	20.4	100	115	
Vert.	4960.000	AV	38.0	31.4	5.9	40.8	34.5	53.9	19.4	100	118	
Vert.	7440.000	AV	32.2	37.0	7.5	41.5	35.2	53.9	18.7	100	0	
Vert.	9920.000	AV	29.0	38.8	8.6	38.8	37.6	53.9	16.3	100	0	
Vert.	12400.000	AV	31.0	39.4	10.1	39.2	41.3	53.9	12.6	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)

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Spurious emission (Conducted)

Tx, Bluetooth, BDR, PRBS9

Tx, 2402MHz (1/2)



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Spurious emission (Conducted)**Tx, Bluetooth, BDR, PRBS9****Tx, 2402MHz (2/2)****UL Japan, Inc.****Shonan EMC Lab.**

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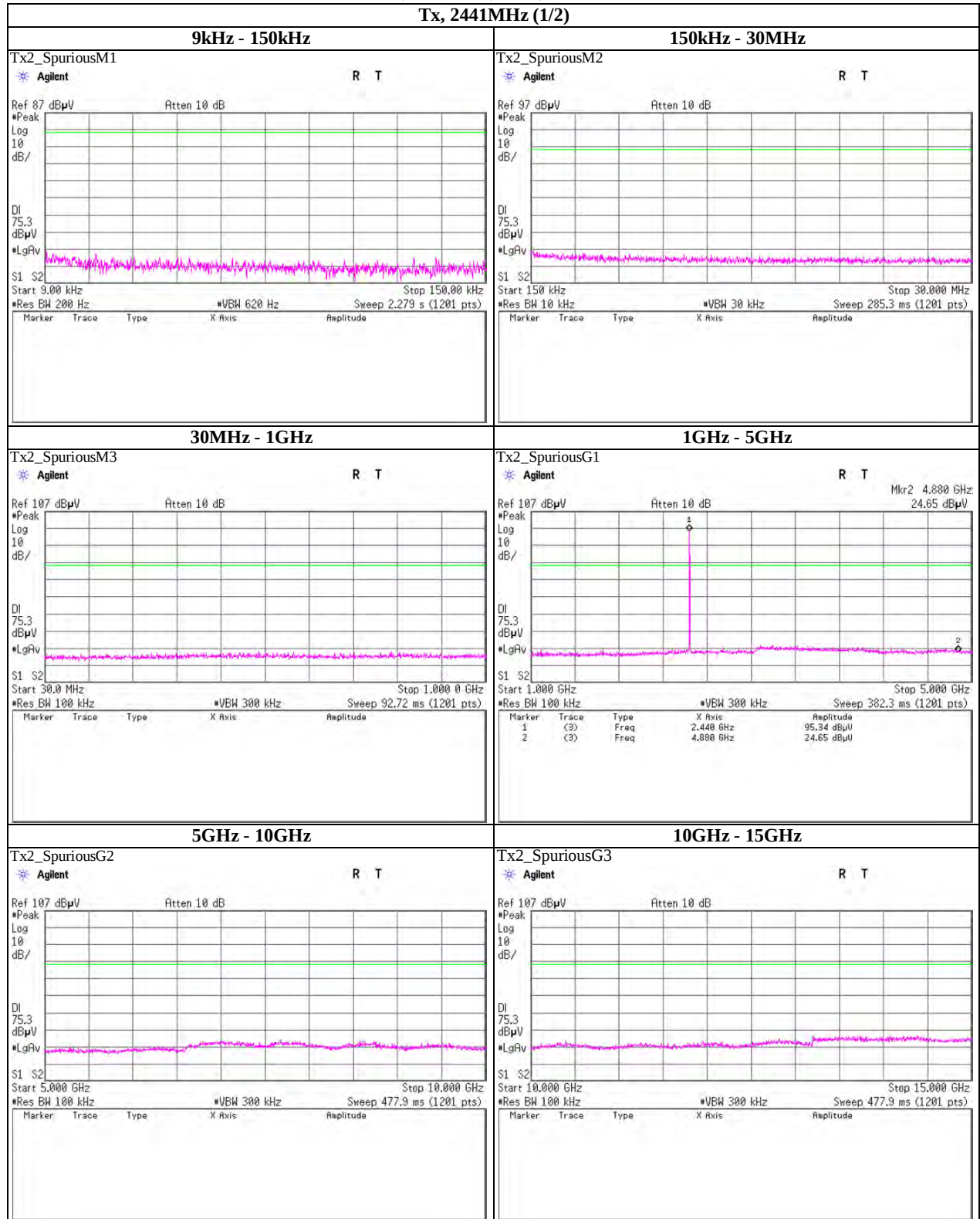
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Spurious emission (Conducted)

Tx, Bluetooth, BDR, PRBS9

Tx, 2441MHz (1/2)



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Tx, Bluetooth, BDR, PRBS9

Tx, 2441MHz (2/2)

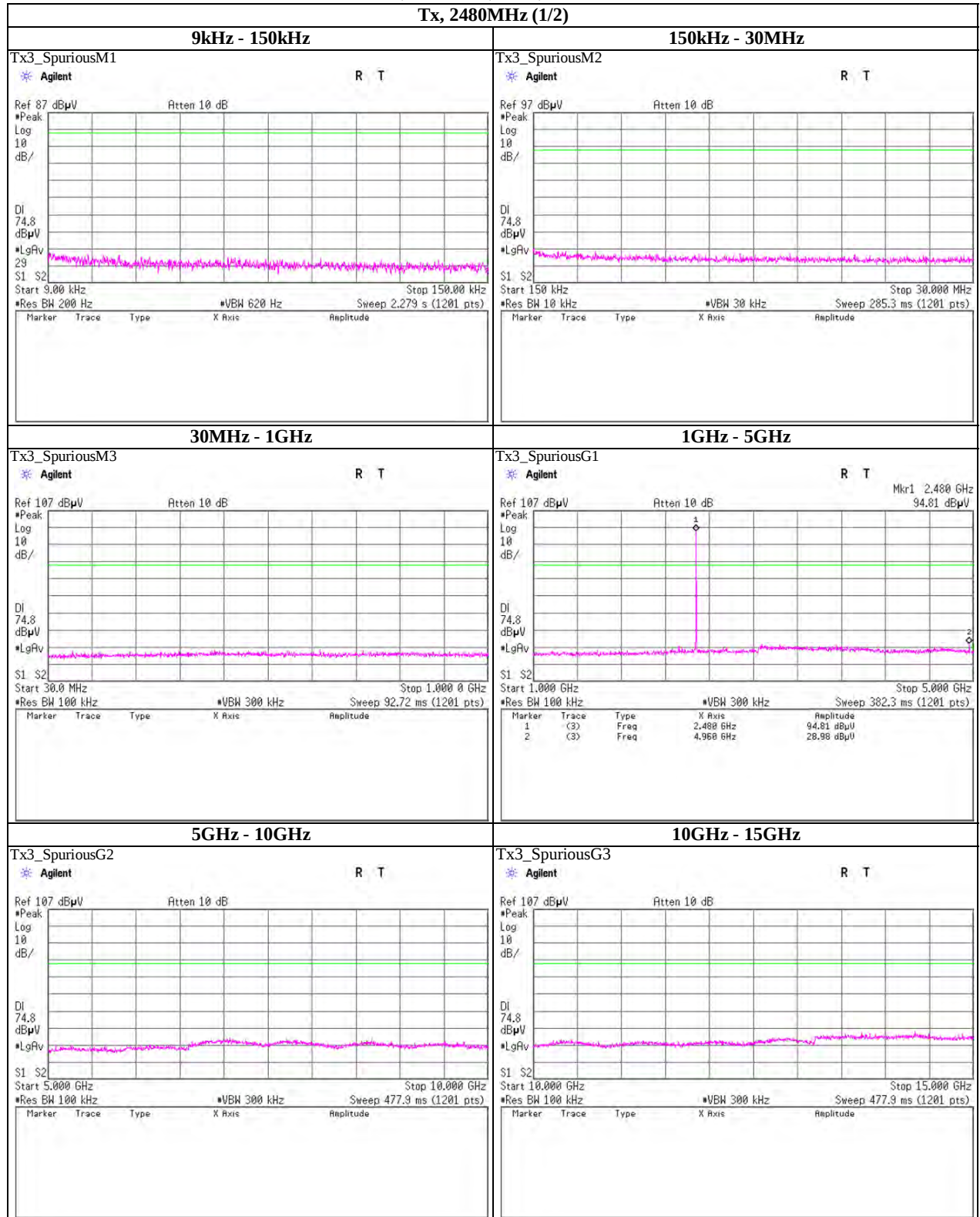


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Spurious emission (Conducted)

Tx, Bluetooth, BDR, PRBS9

Tx, 2480MHz (1/2)

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Spurious emission (Conducted)**Tx, Bluetooth, BDR, PRBS9****Tx, 2480MHz (2/2)****UL Japan, Inc.****Shonan EMC Lab.**

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Spurious emission (Conducted)**Tx, Bluetooth, EDR, PRBS9****Tx, 2402MHz (1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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Tx, Bluetooth, EDR, PRBS9

Tx, 2402MHz (2/2)



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Spurious emission (Conducted)**Tx, Bluetooth, EDR, PRBS9****Tx, 2441MHz (1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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Tx, Bluetooth, EDR, PRBS9

Tx, 2441MHz (2/2)	
15GHz - 20GHz	20GHz - 25GHz
Tx2_SpuriousG4 Agilent R T Ref 107 dBμV Atten 10 dB #Peak Log 10 dB/ DI 75.6 dBμV #LgRv S1 S2 Start 15.000 GHz Stop 20.000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 477.9 ms (1201 pts) Marker Trace Type X Axis Amplitude	Tx2_SpuriousG5 Agilent R T Ref 107 dBμV Atten 10 dB #Peak Log 10 dB/ DI 75.6 dBμV #LgRv S1 S2 Start 20.000 GHz Stop 25.000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 477.9 ms (1201 pts) Marker Trace Type X Axis Amplitude
Tx2_SpuriousG6	Tx2_SpuriousG7
Tx2_SpuriousG8	

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Spurious emission (Conducted)

Tx, Bluetooth, EDR, PRBS9

Tx, 2480MHz (1/2)



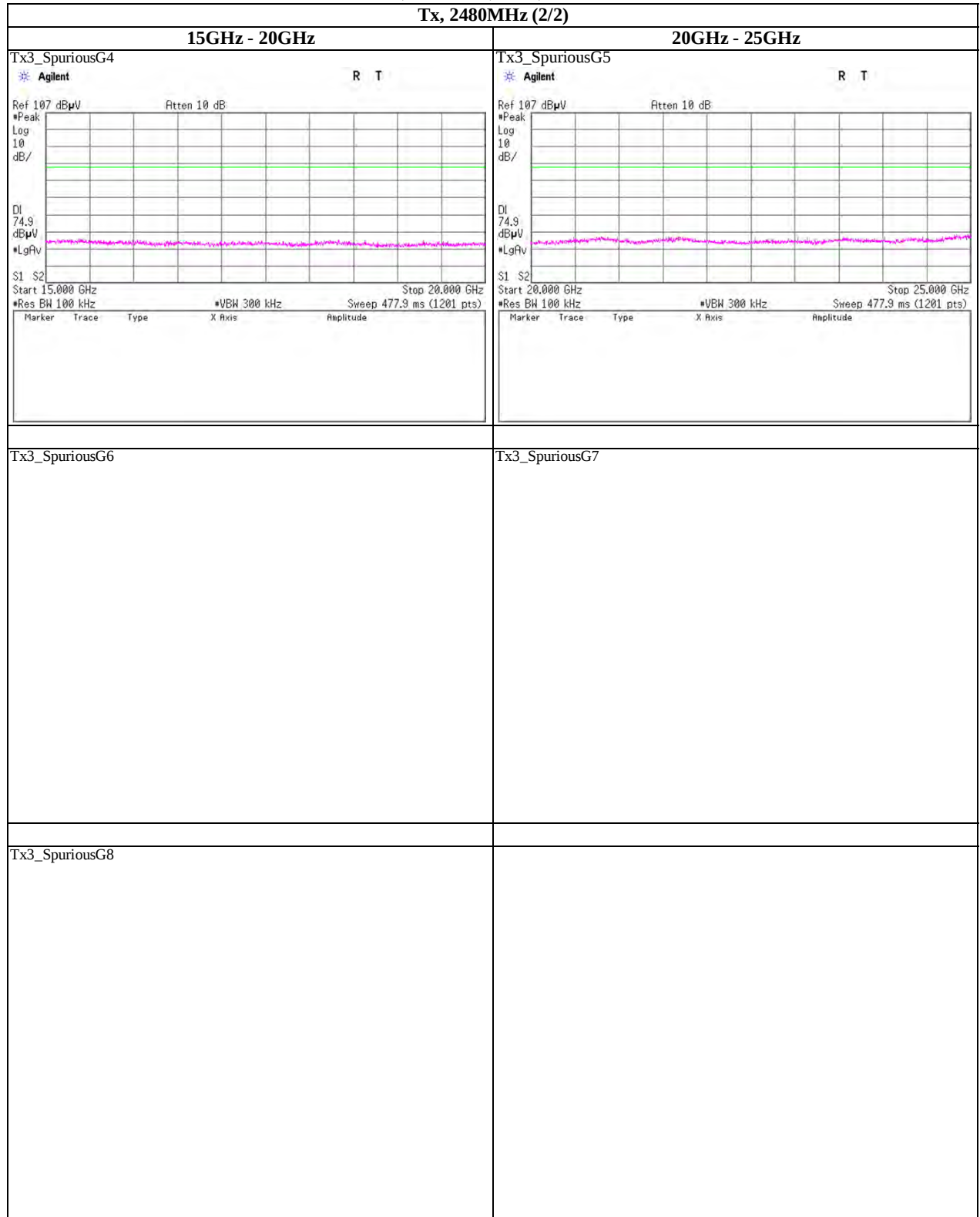
UL Japan, Inc.

Shonan EMC Lab.

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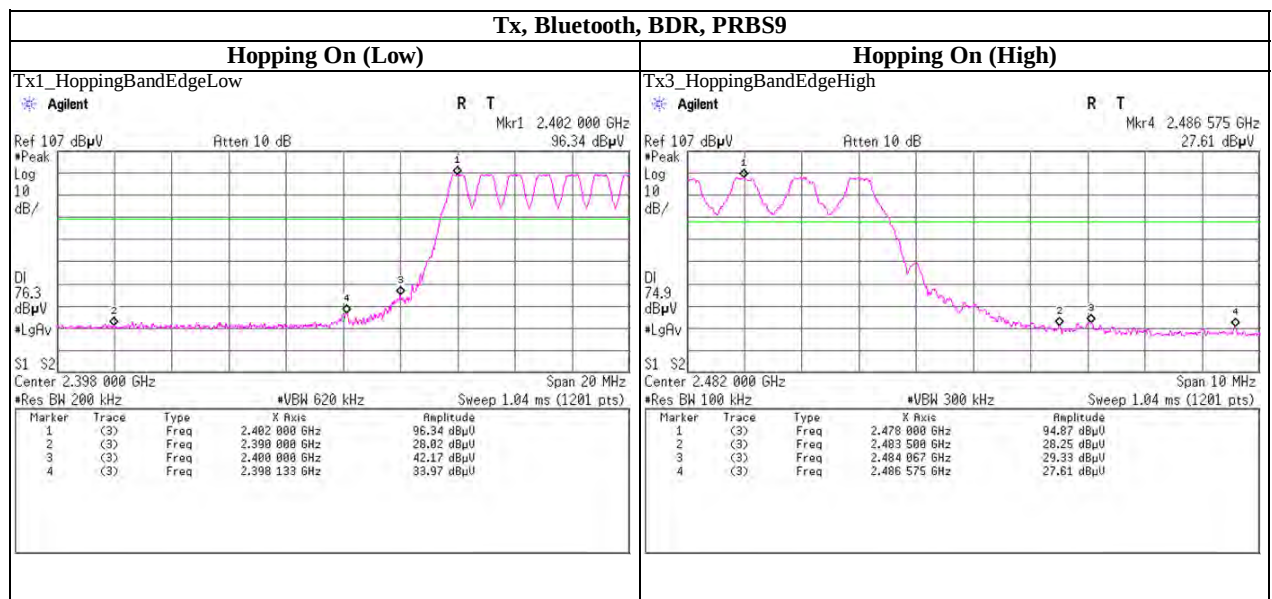
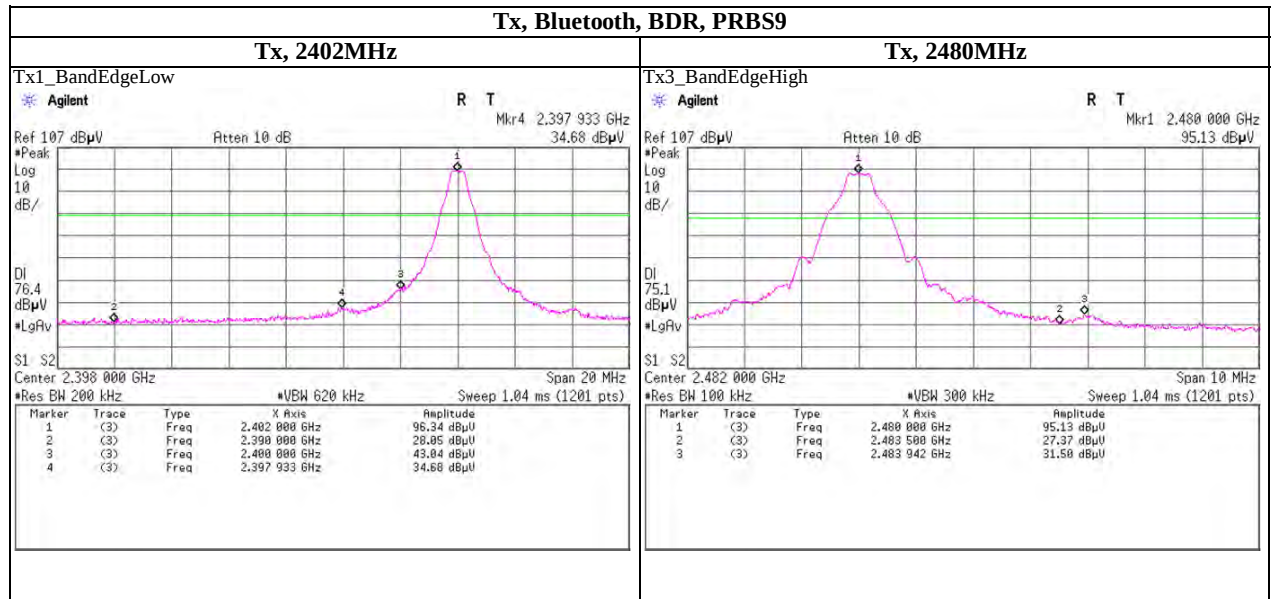
Facsimile : +81 463 50 6401

Spurious emission (Conducted)**Tx, Bluetooth, EDR, PRBS9****Tx, 2480MHz (2/2)****UL Japan, Inc.****Shonan EMC Lab.**

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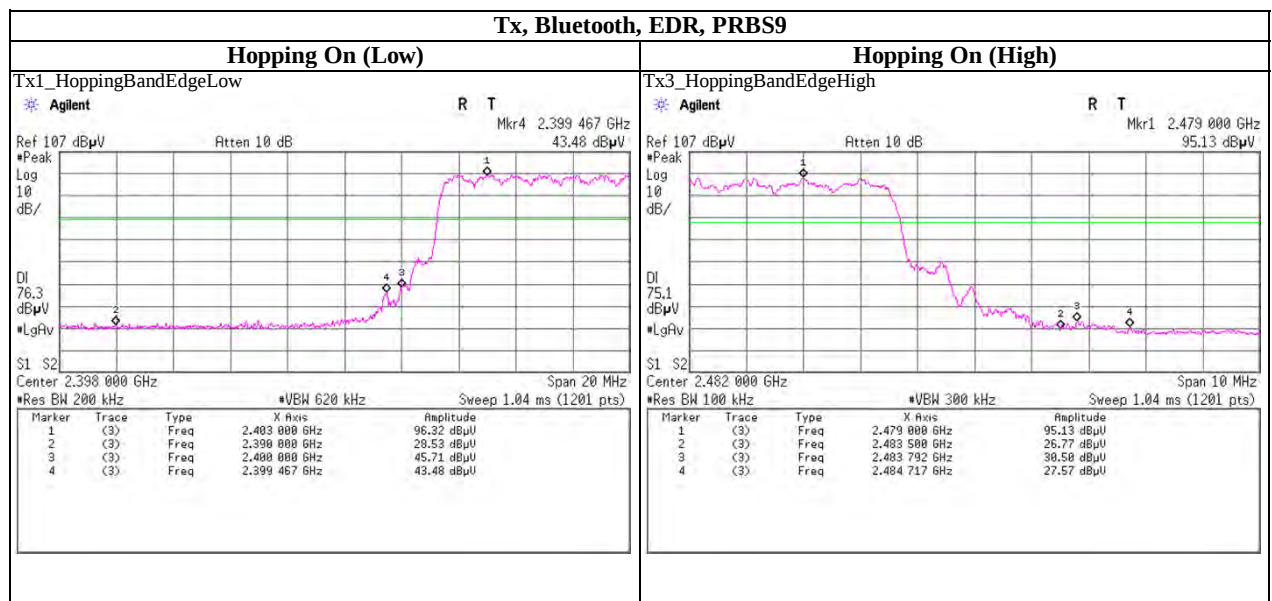
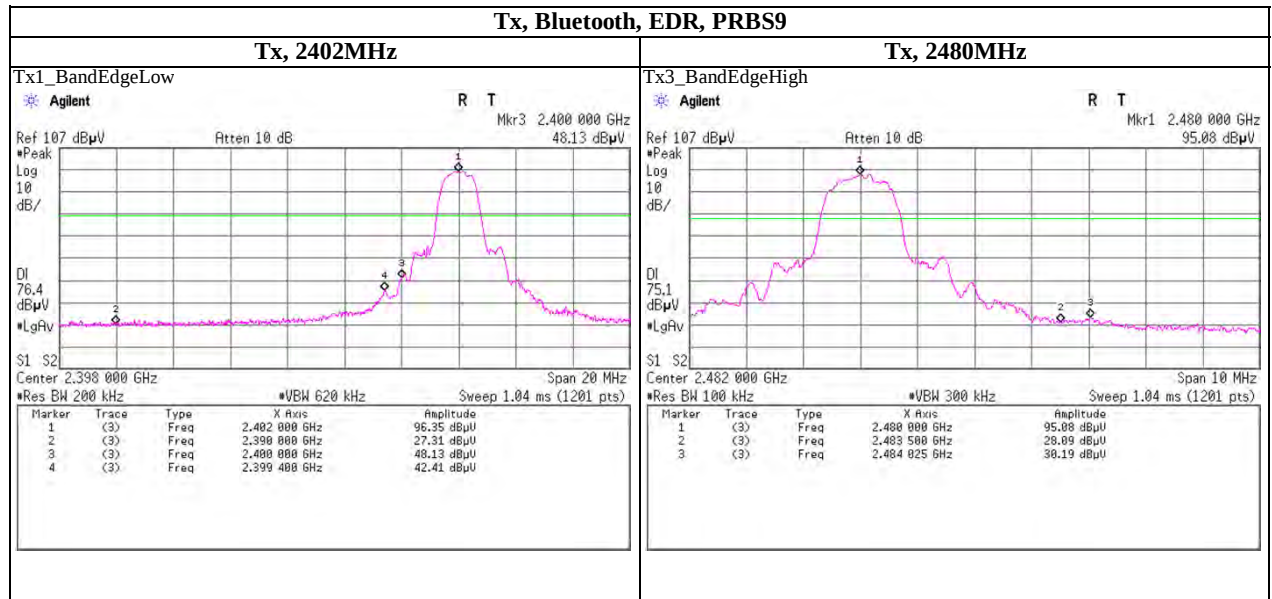
Facsimile : +81 463 50 6401

Spurious emission (Conducted)**Band Edge compliance****UL Japan, Inc.****Shonan EMC Lab.**

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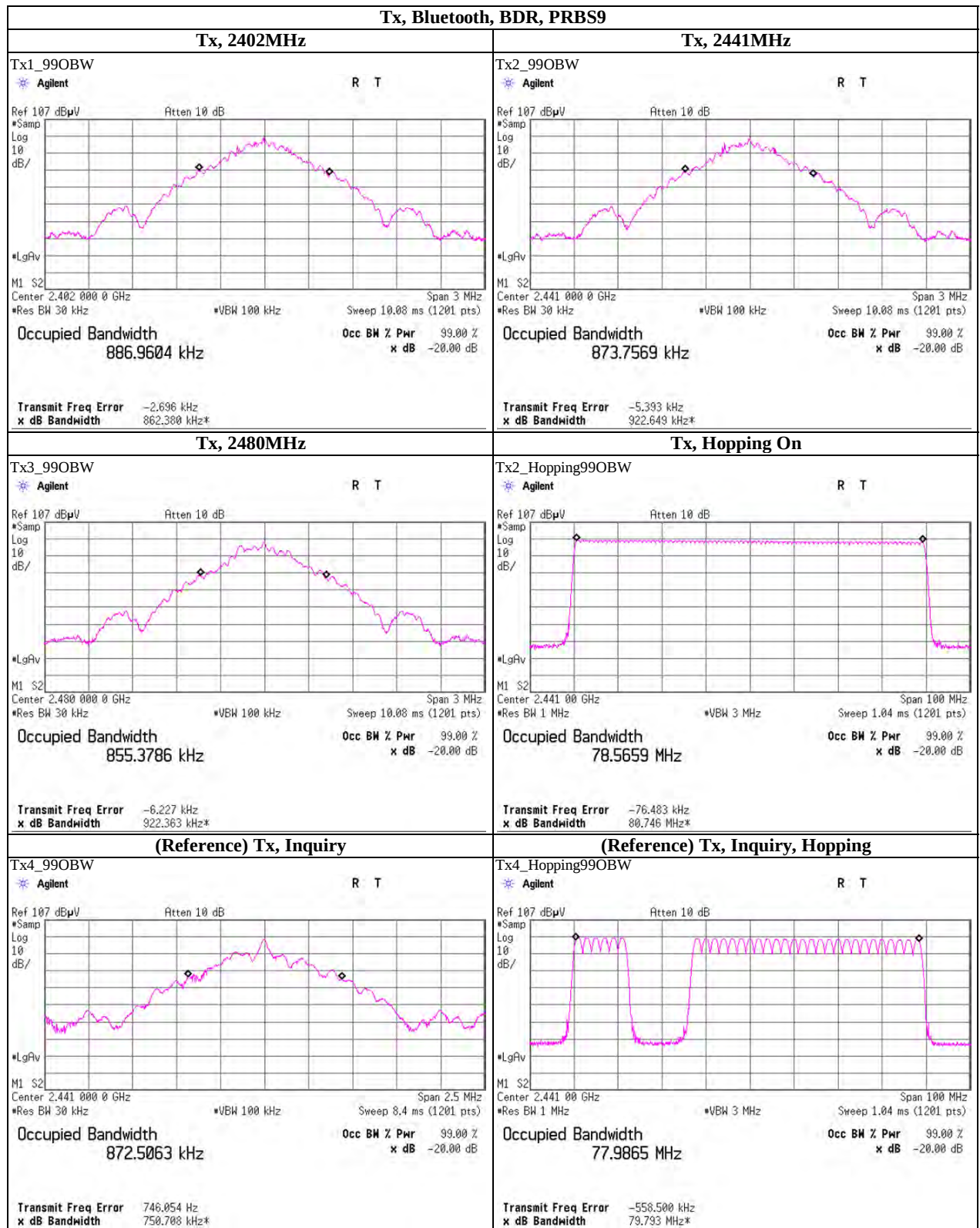
Facsimile : +81 463 50 6401

Spurious emission (Conducted)**Band Edge compliance****UL Japan, Inc.****Shonan EMC Lab.**

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99% Occupied Bandwidth**UL Japan, Inc.****Shonan EMC Lab.**

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99% Occupied Bandwidth

Tx, Bluetooth, EDR, PRBS9	
Tx, 2402MHz	Tx, 2441MHz
Tx1_99OBW Agilent R T Ref 107 dBμV Atten 10 dB *Samp Log 10 dB/ *LgRv M1 S2 Center 2.402 000 0 GHz *Res BW 30 kHz *VBW 100 kHz Span 3 MHz Sweep 10.08 ms (1201 pts) Occupied Bandwidth 1.1865 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -2.788 kHz x dB Bandwidth 1.254 MHz*	Tx2_99OBW Agilent R T Ref 107 dBμV Atten 10 dB *Samp Log 10 dB/ *LgRv M1 S2 Center 2.441 000 0 GHz *Res BW 30 kHz *VBW 100 kHz Span 3 MHz Sweep 10.08 ms (1201 pts) Occupied Bandwidth 1.1811 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -2.360 kHz x dB Bandwidth 1.258 MHz*
Tx, 2480MHz	Tx, Hopping On
Tx3_99OBW Agilent R T Ref 107 dBμV Atten 10 dB *Samp Log 10 dB/ *LgRv M1 S2 Center 2.480 000 0 GHz *Res BW 30 kHz *VBW 100 kHz Span 3 MHz Sweep 10.08 ms (1201 pts) Occupied Bandwidth 1.1801 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -2.368 kHz x dB Bandwidth 1.257 MHz*	Tx2_Hopping99OBW Agilent R T Ref 107 dBμV Atten 10 dB *Samp Log 10 dB/ *LgRv M1 S2 Center 2.441 00 GHz *Res BW 1 MHz *VBW 3 MHz Span 100 MHz Sweep 1.04 ms (1201 pts) Occupied Bandwidth 78.7034 MHz Occ BW % Pwr 99.00 % x dB -20.00 dB Transmit Freq Error -63.418 kHz x dB Bandwidth 81.031 MHz*
Tx2_Inquiry99OBW	Tx2_InqHopping99OBW

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

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APPENDIX 2

Test Instruments

Page : 53 of 55
 Issued date : February 3, 2012
 FCC ID : AJDK050

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
SSA-02	Spectrum Analyzer	Agilent	E4448A	MY48250106	AT	03/07/2011 * 12
SPM-06	Power Meter	Anritsu	ML2495A	0850009	AT	04/12/2011 * 12
SPSS-03	Power sensor	Anritsu	MA2411B	0917063	AT	04/12/2011 * 12
SAT10-09	Attenuator	Weinschel Corp.	54A-10	W5692	AT	11/09/2011 * 12
SCC-G12	Coaxial Cable	Suhner	SUCOFLEX 102	30790/2	AT	03/23/2011 * 12
SOS-09	Humidity Indicator	A&D	AD-5681	4061484	AT	03/02/2011 * 12
SAF-06	Pre Amplifier	TOYO Corporation	TPA0118-36	1440491	RE	07/19/2011 * 12
SCC-G03	Coaxial Cable	Suhner	SUCOFLEX 104A	46499/4A	RE	04/28/2011 * 12
SCC-G23	Coaxial Cable	Suhner	SUCOFLEX 104	297342/4	RE	05/27/2011 * 12
SHA-03	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-739	RE	08/28/2011 * 12
SOS-05	Humidity Indicator	A&D	AD-5681	4062518	RE	02/23/2011 * 12
SSA-03	Spectrum Analyzer	Agilent	E4448A	MY48250152	RE	12/05/2011 * 12
SJM-10	Measure	PROMART	SEN1935	-	RE	-
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV(RE,CE, RFLMF)	-	RE	-
SFL-02	Highpass Filter	MICRO-TRONICS	HPM50111	051	RE	12/27/2011 * 12
SAT10-05	Attenuator(above1GHz)	Agilent	8493C-010	74864	RE	12/27/2011 * 12
SAF-02	Pre Amplifier	SONOMA	310N	290212	RE	02/17/2011 * 12
SAT6-02	Attenuator	JFW	50HF-006N	-	RE	02/17/2011 * 12
SAT3-02	Attenuator	JFW	50HF-003N	-	RE	02/17/2011 * 12
SBA-02	Biconical Antenna	Schwarzbeck	BBA9106	91032665	RE	11/16/2011 * 12
SCC-B1/B3/B5/B7/B8/B13/SRSE-02	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-270(RF Selector)	RE	04/28/2011 * 12
SCC-B2/B4/B6/B7/B8/B13/SRSE-02	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-270(RF Selector)	RE	04/28/2011 * 12
SLA-02	Logperiodic Antenna	Schwarzbeck	UHALP9108A	UHALP 9108-A 0893	RE	11/16/2011 * 12
SOS-03	Humidity Indicator	A&D	AD-5681	4063325	RE	02/23/2011 * 12
STR-02	Test Receiver	Rohde & Schwarz	ESCI	100575	RE	08/04/2011 * 12
SJM-02	Measure	KOMELON	KMC-36	-	RE	-
SAEC-02(NSA)	Semi-Anechoic Chamber	TDK	SAEC-02(NSA)	2	RE	09/25/2011 * 12
SSA-02	Spectrum Analyzer	Agilent	E4448A	MY48250106	RE	03/07/2011 * 12
SAF-08	Pre Amplifier	TOYO Corporation	HAP18-26W	00000019	RE	03/16/2011 * 12
SCC-G17	Coaxial Cable	Suhner	SUCOFLEX 104A	46291/4A	RE	03/16/2011 * 12
SHA-04	Horn Antenna	ETS LINDGREN	3160-09	LM3640	RE	03/15/2011 * 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 valid calibrations . Each measurement data is traceable to the national or international standards .

Test Item :

RE: Radiated emission ,
 AT: Antenna terminal disturbance voltage