
APPENDIX 2: Data of EMI test

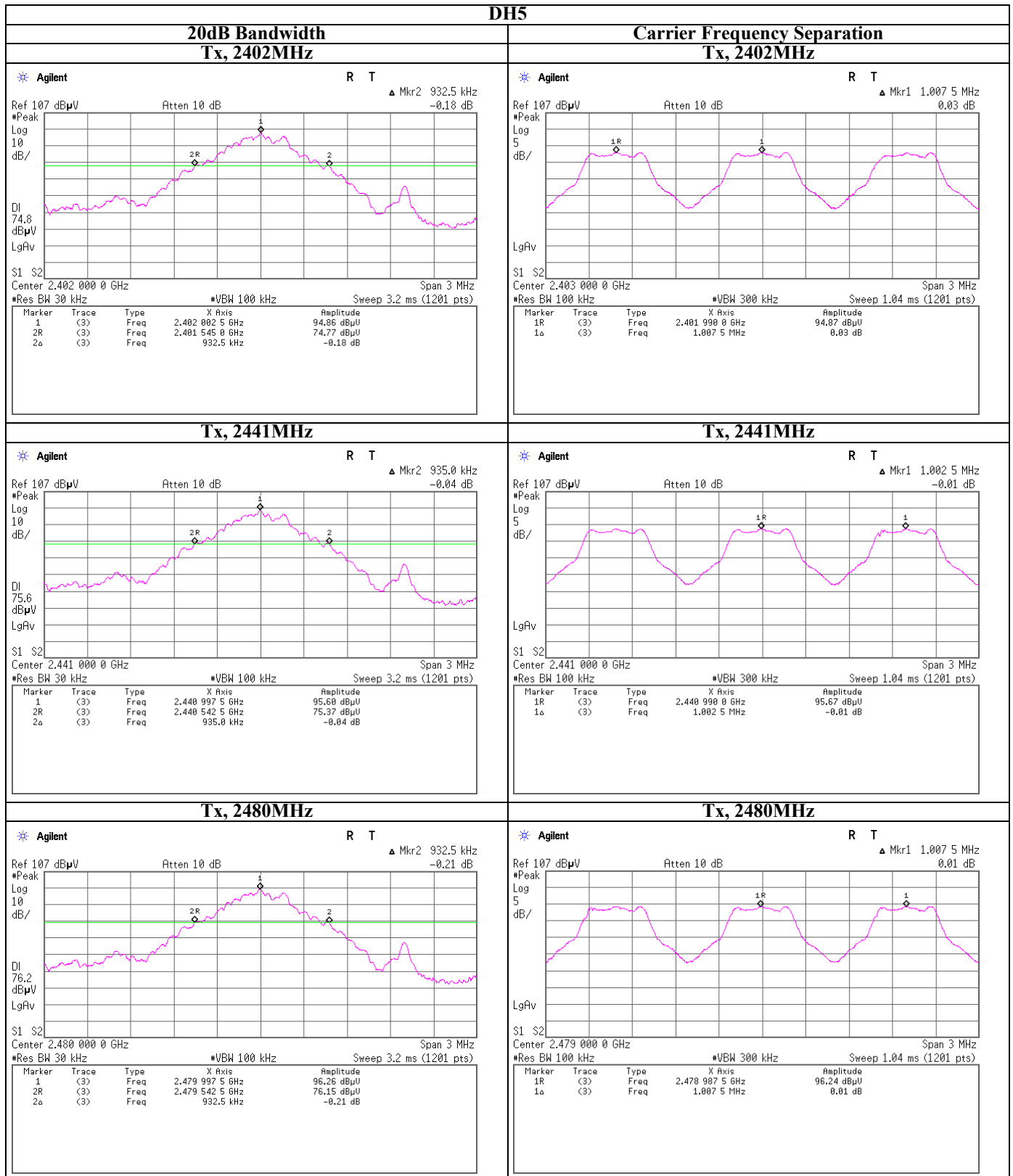
20dB Bandwidth and Carrier Frequency Separation

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
Date August 25,2010
Temperature / Humidity 23deg.C. , 51%
Engineer Shinichi Takano
Mode Tx,

Mode	Freq. [MHz]	20dB Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit for Carrier Frequency Separation [MHz]
DH5	2402.0	0.933	1.008	>= 0.622
DH5	2441.0	0.935	1.003	>= 0.623
DH5	2480.0	0.933	1.008	>= 0.622
3DH5	2402.0	1.288	1.008	>= 0.858
3DH5	2441.0	1.285	1.008	>= 0.857
3DH5	2480.0	1.288	1.005	>= 0.858
Inquiry	2441.0	0.820	2.008	>= 0.547

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

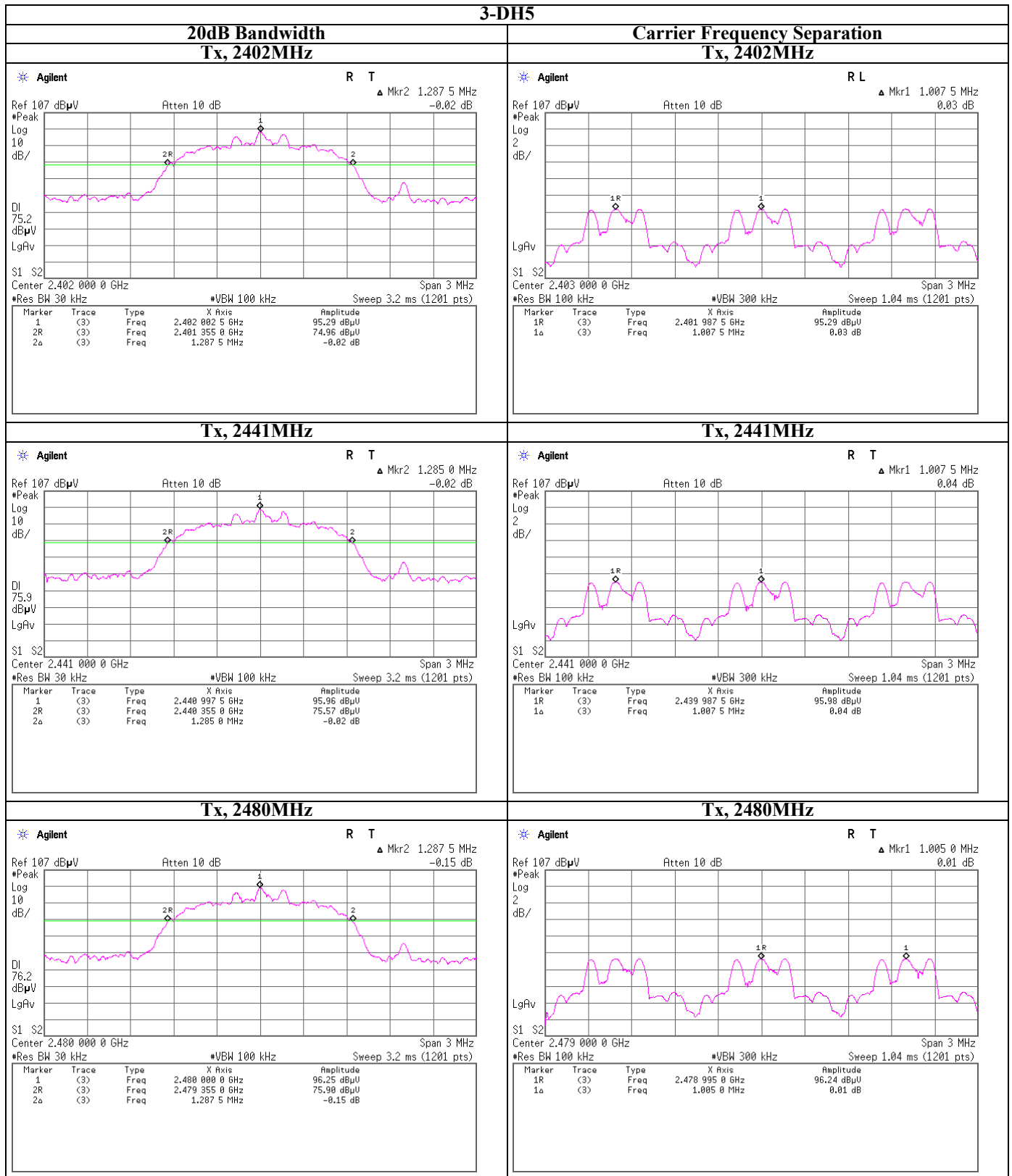
20dB Bandwidth and Carrier Frequency Separation



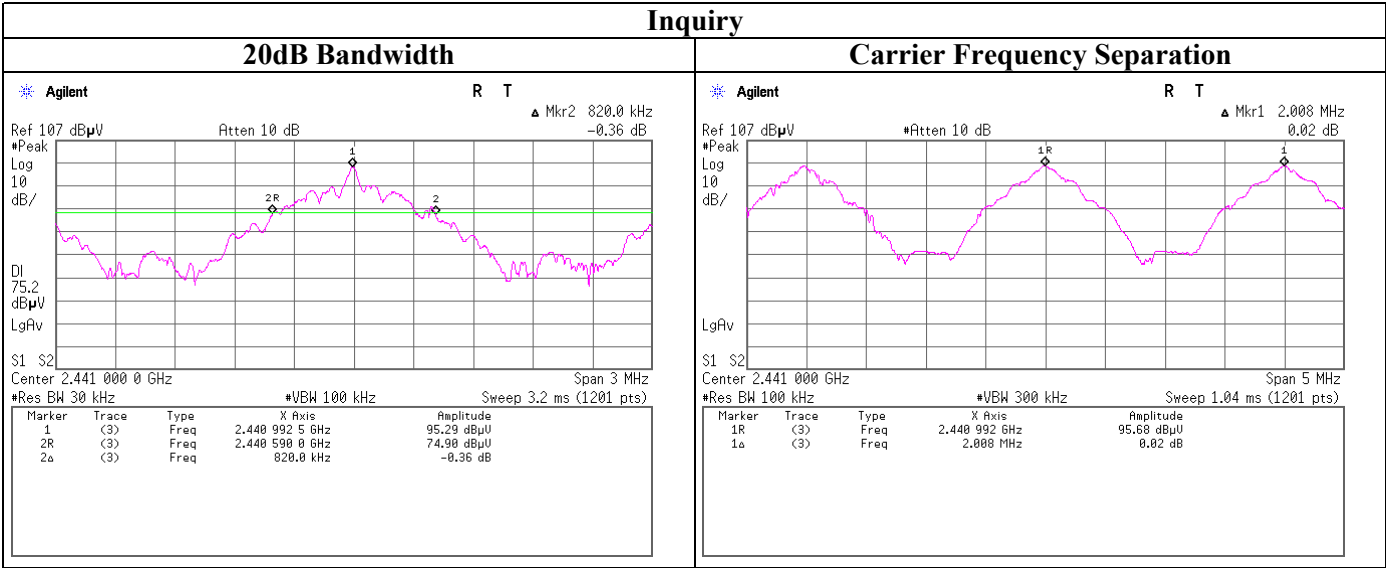
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20dB Bandwidth and Carrier Frequency Separation



20dB Bandwidth and Carrier Frequency Separation



Number of Hopping Frequency (Conducted)

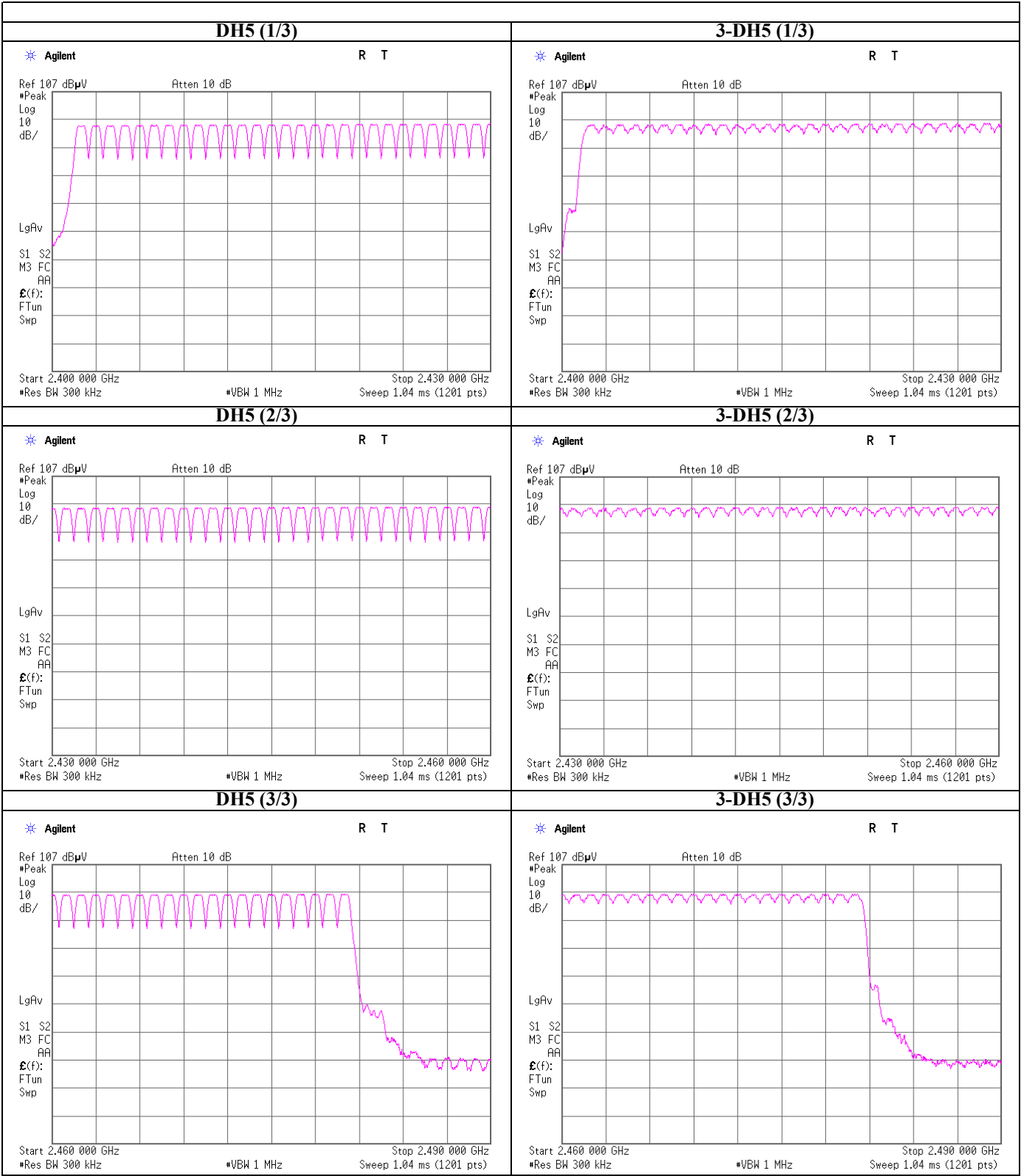
Test place UL Japan, Inc. Shonan EMC La No.5 Shielded Room
Date August 26,2010
Temperature / Humidity 22deg.C. , 51%
Engineer Wataru Kojima
Mode Tx,

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

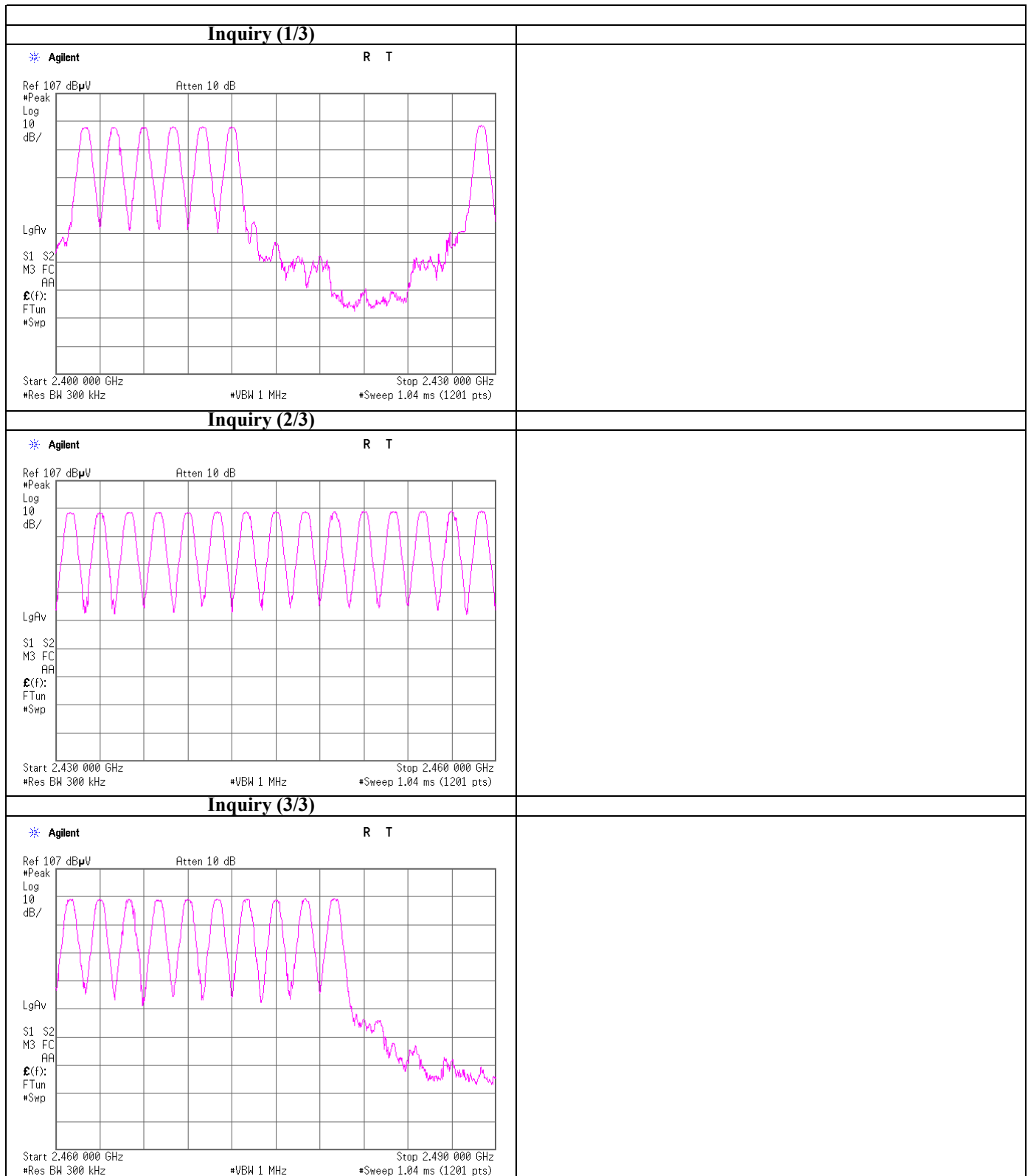
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Number of Hopping Frequency



Number of Hopping Frequency



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Dwell Time (Conducted)

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
Date August 26,2010
Temperature / Humidity 22deg.C , 51%
Engineer Wataru Kojima
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	51.0 times / 5 sec. x 31.6 sec. = 323 times	0.403	130	400
DH3	25.4 times / 5 sec. x 31.6 sec. = 161 times	1.660	267	400
DH5	16.4 times / 5 sec. x 31.6 sec. = 104 times	2.910	303	400
3DH1	50.6 times / 5 sec. x 31.6 sec. = 320 times	0.415	133	400
3DH3	25.2 times / 5 sec. x 31.6 sec. = 160 times	1.667	267	400
3DH5	17.0 times / 5 sec. x 31.6 sec. = 108 times	2.920	315	400
Inquiry	100.0 times / 1 sec. x 12.8 sec. = 1280 times	0.102	130	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	51	51	50	52	51
DH3	25	26	25	25	26	25.4
DH5	16	17	16	16	17	16.4
3DH1	51	51	50	50	51	50.6
3DH3	25	25	26	25	25	25.2
3DH5	17	17	17	18	16	17

Sample Calculation

Average= Summation(Sampling 1 to 5) / 5

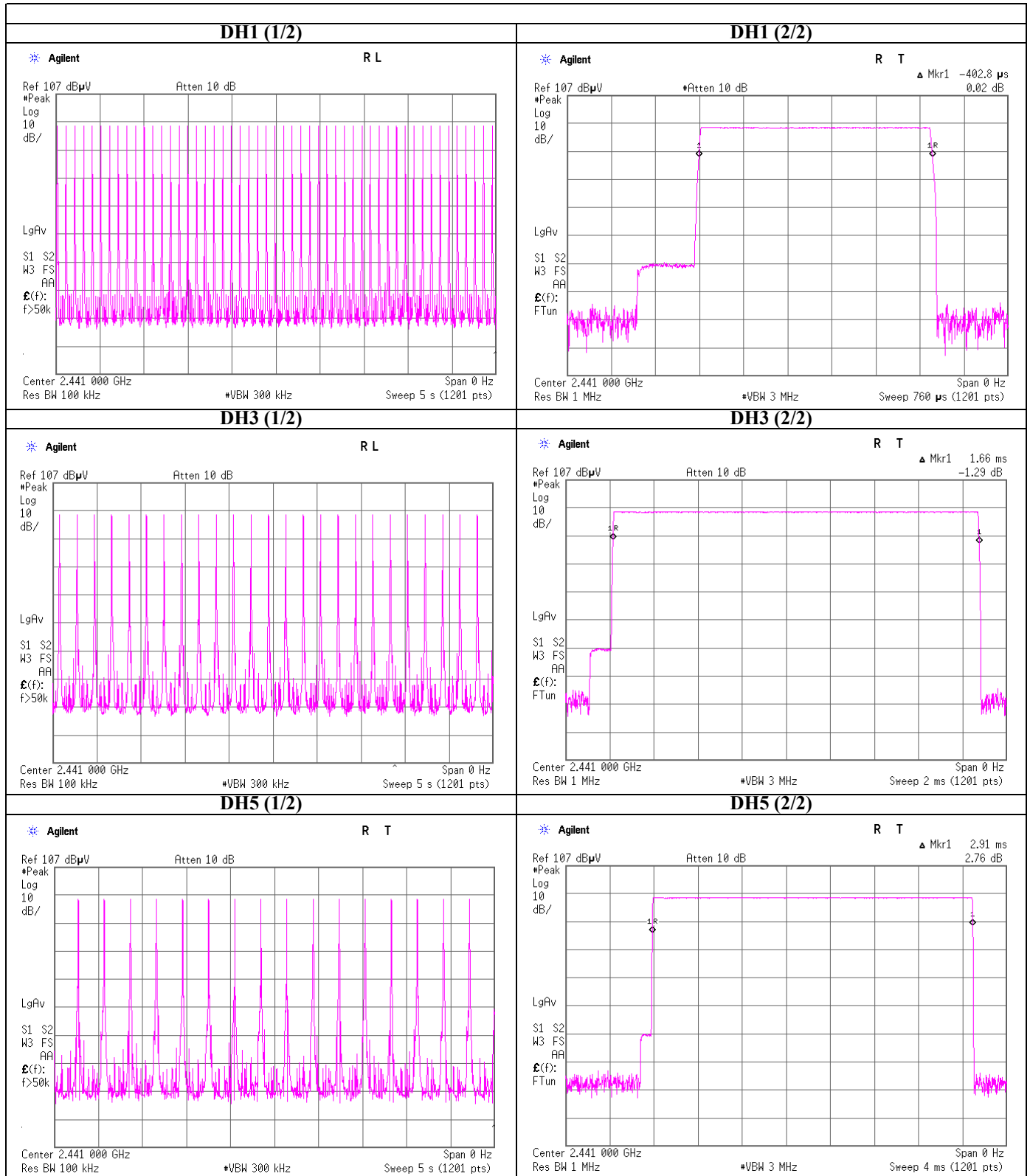
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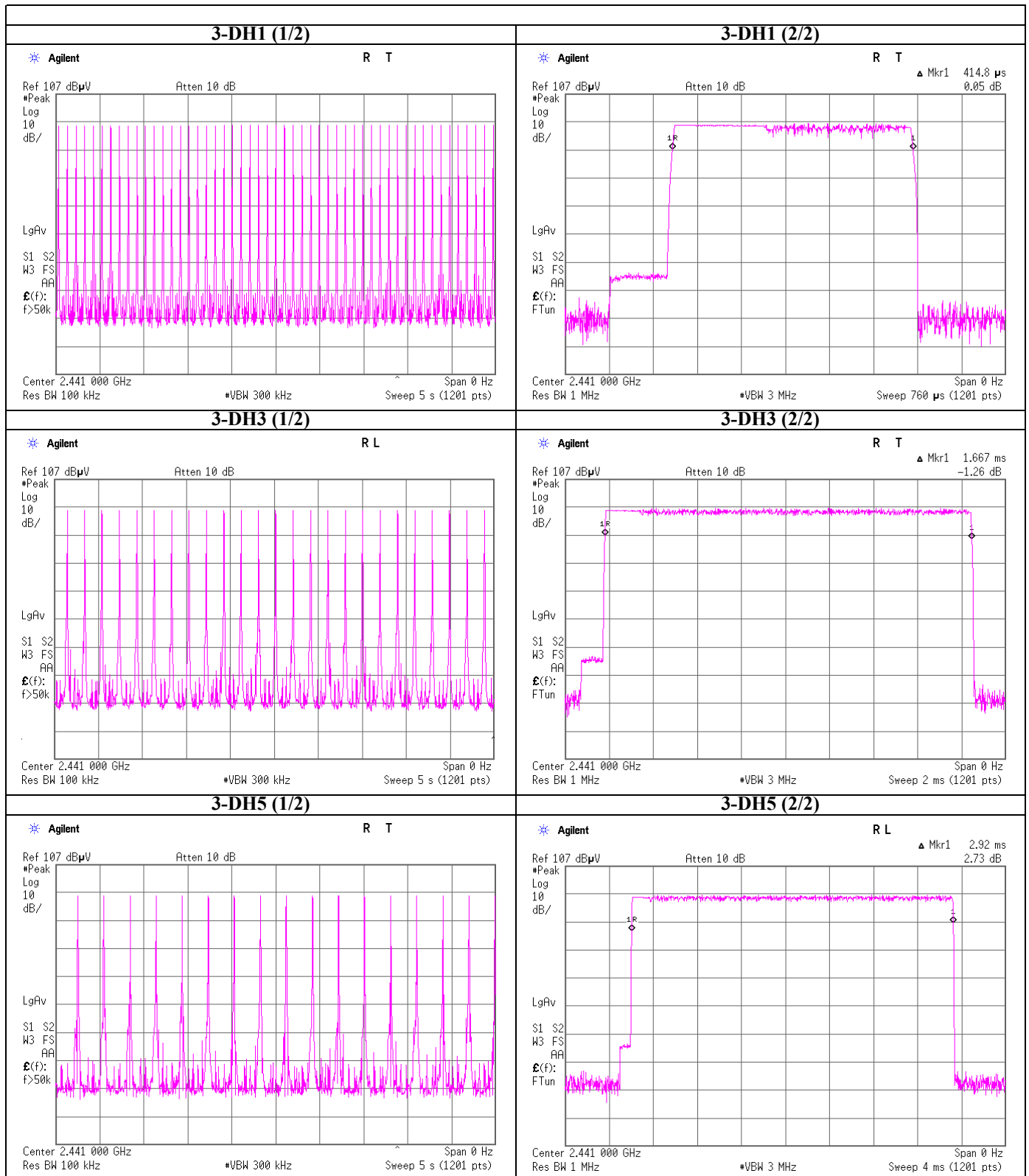
Dwell time



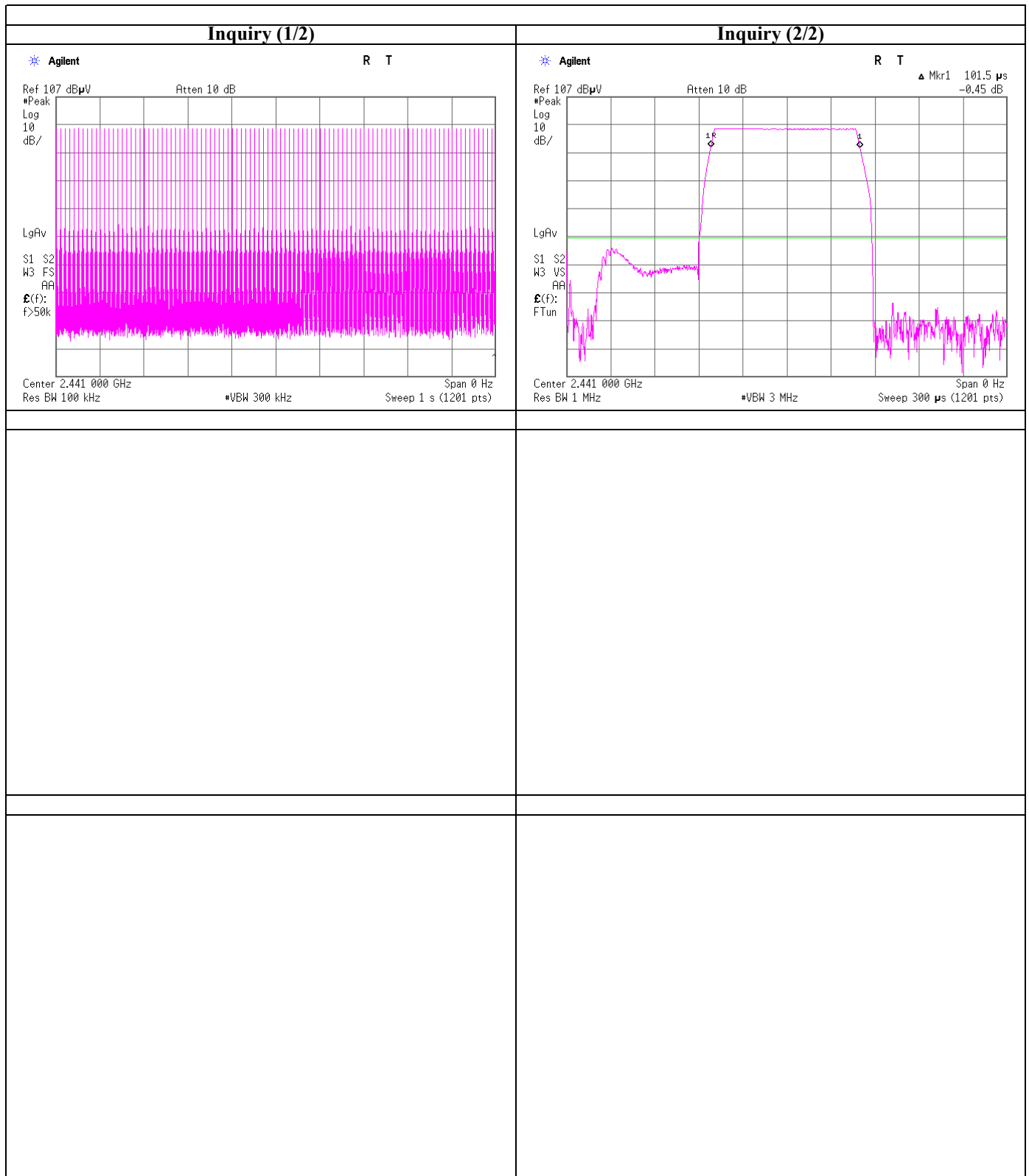
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Dwell time



Dwell time



Peak Output Power (Conducted)

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
Date August 26,2010
Temperature / Humidity 22deg.C. , 51%
Engineer Wataru Kojima
Mode Tx,

BDR (DH5)

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	-11.67	1.56	9.98	-0.13	0.97	20.97	125	21.10
Mid	2441.0	-10.85	1.52	9.98	0.65	1.16	20.97	125	20.32
High	2480.0	-10.45	1.53	9.98	1.06	1.28	20.97	125	19.91

EDR (2-DH5)

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	-10.55	1.56	9.98	0.99	1.26	20.97	125	19.98
Mid	2441.0	-9.80	1.52	9.98	1.70	1.48	20.97	125	19.27
High	2480.0	-9.77	1.53	9.98	1.74	1.49	20.97	125	19.23

EDR (3-DH5)

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	-10.47	1.56	9.98	1.07	1.28	20.97	125	19.90
Mid	2441.0	-9.77	1.52	9.98	1.73	1.49	20.97	125	19.24
High	2480.0	-9.60	1.53	9.98	1.91	1.55	20.97	125	19.06

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.

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
Date August 21, 2010 August 22, 2010
Temperature / Humidity 23deg.C. , 61% 25deg.C. , 64%
Engineer Tatsuya Arai Tatsuya Arai
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.	360.012	QP	44.1	15.5	8.7	31.9	36.4	46.0	9.6	100	224	
Hori.	480.011	QP	43.3	17.0	9.2	31.9	37.6	46.0	8.4	100	148	
Hori.	960.031	QP	35.3	22.4	10.8	30.5	38.0	53.9	15.9	100	280	
Hori.	1602.000	PK	51.3	25.5	12.7	40.1	49.4	73.9	24.5	100	286	
Hori.	2390.000	PK	48.6	27.5	13.3	40.2	49.2	73.9	24.7	100	45	
Hori.	2400.000	PK	53.6	27.5	13.3	40.2	54.2	73.9	19.7	100	45	
Hori.	3204.000	PK	48.1	29.2	4.9	41.1	41.1	73.9	32.8	100	0	
Hori.	4007.000	PK	47.9	30.1	5.0	40.7	42.3	73.9	31.6	100	0	
Hori.	4808.000	PK	55.9	31.5	5.5	40.1	52.8	73.9	21.1	100	140	
Hori.	7206.000	PK	48.2	36.4	6.7	38.3	53.0	73.9	20.9	100	0	
Hori.	9608.000	PK	47.2	37.9	7.8	37.3	55.6	73.9	18.3	100	0	
Hori.	12010.000	PK	49.8	39.4	9.0	38.4	59.8	73.9	14.1	100	0	
Hori.	1602.000	AV	44.6	25.5	12.7	40.1	42.7	53.9	11.2	100	286	VBW = 10Hz
Hori.	3204.000	AV	37.9	29.2	4.9	41.1	30.9	53.9	23.0	100	0	VBW = 10Hz
Hori.	4007.000	AV	37.8	30.1	5.0	40.7	32.2	53.9	21.7	100	0	VBW = 10Hz
Vert.	360.012	QP	36.5	15.5	8.7	31.9	28.8	46.0	17.2	100	266	
Vert.	480.011	QP	37.8	17.0	9.2	31.9	32.1	46.0	13.9	100	115	
Vert.	960.031	QP	34.4	22.4	10.8	30.5	37.1	53.9	16.8	100	217	
Vert.	1603.000	PK	52.1	25.5	12.7	40.1	50.2	73.9	23.7	100	338	
Vert.	2390.000	PK	48.7	27.5	13.3	40.2	49.3	73.9	24.6	123	345	
Vert.	2400.000	PK	54.8	27.5	13.3	40.2	55.4	73.9	18.5	123	345	
Vert.	3204.000	PK	48.1	29.2	4.9	41.1	41.1	73.9	32.8	100	0	
Vert.	4007.000	PK	48.6	30.1	5.0	40.7	43.0	73.9	30.9	100	0	
Vert.	4804.000	PK	56.7	31.5	5.5	40.1	53.6	73.9	20.3	100	240	
Vert.	7206.000	PK	48.7	36.4	6.7	38.3	53.5	73.9	20.4	100	0	
Vert.	9608.000	PK	46.5	37.9	7.8	37.3	54.9	73.9	19.0	100	0	
Vert.	12010.000	PK	49.1	39.4	9.0	38.4	59.1	73.9	14.8	100	0	
Vert.	1603.000	AV	46.3	25.5	12.7	40.1	44.4	53.9	9.5	100	338	VBW = 10Hz
Vert.	3204.000	AV	37.9	29.2	4.9	41.1	30.9	53.9	23.0	100	0	VBW = 10Hz
Vert.	4007.000	AV	37.8	30.1	5.0	40.7	32.2	53.9	21.7	100	0	VBW = 10Hz

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	37.7	27.5	13.3	40.2	-30.7	7.6	54.0	46.4	VBW = 300Hz
Hori.	2400.000	AV	45.1	27.5	13.3	40.2	-30.7	15.0	54.0	39.0	VBW = 300Hz
Hori.	4808.000	AV	51.8	31.5	5.5	40.1	-30.7	18.0	54.0	36.0	VBW = 300Hz
Hori.	7206.000	AV	38.2	36.4	6.7	38.3	-30.7	12.3	54.0	41.7	VBW = 300Hz
Hori.	9608.000	AV	36.4	37.9	7.8	37.3	-30.7	14.1	54.0	39.9	VBW = 300Hz
Hori.	12010.000	AV	38.5	39.4	9.0	38.4	-30.7	17.8	54.0	36.2	VBW = 300Hz
Vert.	2390.000	AV	37.6	27.5	13.3	40.2	-30.7	7.5	54.0	46.5	VBW = 300Hz
Vert.	2400.000	AV	46.4	27.5	13.3	40.2	-30.7	16.3	54.0	37.7	VBW = 300Hz
Vert.	4804.000	AV	53.1	31.5	5.5	40.1	-30.7	19.3	54.0	34.7	VBW = 300Hz
Vert.	7206.000	AV	38.3	36.4	6.7	38.3	-30.7	12.4	54.0	41.6	VBW = 300Hz
Vert.	9608.000	AV	36.3	37.9	7.8	37.3	-30.7	14.0	54.0	40.0	VBW = 300Hz
Vert.	12010.000	AV	38.5	39.4	9.0	38.4	-30.7	17.8	54.0	36.2	VBW = 300Hz

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.

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
Date August 21, 2010 August 22, 2010
Temperature / Humidity 23deg.C. , 61% 25deg.C. , 64%
Engineer Tatsuya Arai Tatsuya Arai
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.	360.007	QP	44.0	15.5	8.7	31.9	36.3	46.0	9.7	100	224	
Hori.	480.011	QP	42.9	17.0	9.2	31.9	37.2	46.0	8.8	100	147	
Hori.	960.026	QP	35.5	22.4	10.9	30.5	38.3	53.9	15.6	115	283	
Hori.	1626.670	PK	52.5	25.6	12.7	40.1	50.7	73.9	23.2	100	47	
Hori.	2400.061	PK	53.8	27.5	13.3	40.2	54.4	73.9	19.5	100	275	
Hori.	3253.340	PK	49.3	29.3	4.8	41.1	42.3	73.9	31.6	100	0	
Hori.	4070.000	PK	48.9	30.1	5.0	40.7	43.3	73.9	30.6	100	0	
Hori.	4882.000	PK	55.8	31.7	5.6	40.0	53.1	73.9	20.8	100	62	
Hori.	7323.000	PK	47.5	36.7	6.9	38.5	52.6	73.9	21.3	100	0	
Hori.	9764.000	PK	45.8	38.2	7.8	37.4	54.4	73.9	19.5	100	0	
Hori.	12205.000	PK	47.5	39.2	9.1	38.1	57.7	73.9	16.2	100	0	
Hori.	1626.670	AV	46.8	25.6	12.7	40.1	45.0	53.9	8.9	100	47	VBW = 10Hz
Hori.	2400.061	AV	48.6	27.5	13.3	40.2	49.2	53.9	4.7	100	275	VBW = 10Hz
Hori.	3253.340	AV	38.3	29.3	4.8	41.1	31.3	53.9	22.6	100	0	VBW = 10Hz
Hori.	4070.000	AV	37.7	30.1	5.0	40.7	32.1	53.9	21.8	100	0	VBW = 10Hz
Vert.	360.007	QP	35.1	15.5	8.7	31.9	27.4	46.0	18.6	100	275	
Vert.	480.011	QP	37.0	17.0	9.2	31.9	31.3	46.0	14.7	100	110	
Vert.	960.031	QP	34.2	22.4	10.9	30.5	37.0	53.9	16.9	100	220	
Vert.	1626.670	PK	52.8	25.6	12.7	40.1	51.0	73.9	22.9	100	331	
Vert.	2400.061	PK	51.1	27.5	13.3	40.2	51.7	73.9	22.2	100	303	
Vert.	3253.340	PK	48.8	29.3	4.8	41.1	41.8	73.9	32.1	100	0	
Vert.	4070.000	PK	48.0	30.1	5.0	40.7	42.4	73.9	31.5	100	0	
Vert.	4882.000	PK	56.3	31.7	5.6	40.0	53.6	73.9	20.3	100	241	
Vert.	7323.000	PK	48.0	36.7	6.9	38.5	53.1	73.9	20.8	100	0	
Vert.	9764.000	PK	46.4	38.2	7.8	37.4	55.0	73.9	18.9	100	0	
Vert.	12205.000	PK	47.5	39.2	9.1	38.1	57.7	73.9	16.2	100	0	
Vert.	1626.670	AV	47.5	25.6	12.7	40.1	45.7	53.9	8.2	100	331	VBW = 10Hz
Vert.	2400.061	AV	42.2	27.5	13.3	40.2	42.8	53.9	11.1	100	303	VBW = 10Hz
Vert.	3253.340	AV	37.9	29.3	4.8	41.1	30.9	53.9	23.0	100	0	VBW = 10Hz
Vert.	4070.000	AV	37.7	30.1	5.0	40.7	32.1	53.9	21.8	100	0	VBW = 10Hz

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	51.8	31.7	5.6	40.0	-30.7	18.4	54.0	35.6	VBW = 300Hz
Hori.	7323.000	AV	37.7	36.7	6.9	38.5	-30.7	12.1	54.0	41.9	VBW = 300Hz
Hori.	9764.000	AV	36.0	38.2	7.8	37.4	-30.7	13.9	54.0	40.1	VBW = 300Hz
Hori.	12205.000	AV	37.0	39.2	9.1	38.1	-30.7	16.5	54.0	37.5	VBW = 300Hz
Vert.	4882.000	AV	52.7	31.7	5.6	40.0	-30.7	19.3	54.0	34.7	VBW = 300Hz
Vert.	7323.000	AV	37.2	36.7	6.9	38.5	-30.7	11.6	54.0	42.4	VBW = 300Hz
Vert.	9764.000	AV	36.0	38.2	7.8	37.4	-30.7	13.9	54.0	40.1	VBW = 300Hz
Vert.	12205.000	AV	37.2	39.2	9.1	38.1	-30.7	16.7	54.0	37.3	VBW = 300Hz

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.

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
Date August 21, 2010 August 22, 2010
Temperature / Humidity 23deg.C. , 61% 25deg.C. , 64%
Engineer Tatsuya Arai Tatsuya Arai
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.	360.007	QP	44.1	15.5	8.7	31.9	36.4	46.0	9.6	100	221	
Hori.	480.006	QP	42.7	17.0	9.2	31.9	37.0	46.0	9.0	100	149	
Hori.	960.026	QP	35.2	22.4	10.9	30.5	38.0	53.9	15.9	109	286	
Hori.	1654.000	PK	53.8	25.7	12.8	40.2	52.1	73.9	21.8	100	48	
Hori.	2400.055	PK	53.1	27.5	13.3	40.2	53.7	73.9	20.2	100	274	
Hori.	2483.500	PK	51.4	27.6	13.4	40.1	52.3	73.9	21.6	100	44	
Hori.	3308.000	PK	48.6	29.3	4.9	41.1	41.7	73.9	32.2	100	0	
Hori.	4137.000	PK	49.0	30.2	5.1	40.6	43.7	73.9	30.2	100	0	
Hori.	4960.000	PK	54.9	31.9	5.6	40.0	52.4	73.9	21.5	100	167	
Hori.	7440.000	PK	47.6	36.9	7.1	38.7	52.9	73.9	21.0	100	0	
Hori.	9920.000	PK	44.8	38.4	8.0	37.5	53.7	73.9	20.2	100	0	
Hori.	12400.000	PK	44.8	39.1	9.4	37.9	55.4	73.9	18.5	100	0	
Hori.	1654.000	AV	47.6	25.7	12.8	40.2	45.9	53.9	8.0	100	48	VBW = 10Hz
Hori.	2400.055	AV	48.5	27.5	13.3	40.2	49.1	53.9	4.8	100	274	VBW = 10Hz
Hori.	3308.000	AV	38.2	29.3	4.9	41.1	31.3	53.9	22.6	100	0	VBW = 10Hz
Hori.	4137.000	AV	37.9	30.2	5.1	40.6	32.6	53.9	21.3	100	0	VBW = 10Hz
Vert.	360.007	QP	35.4	15.5	8.7	31.9	27.7	46.0	18.3	100	262	
Vert.	480.006	QP	37.1	17.0	9.2	31.9	31.4	46.0	14.6	100	109	
Vert.	960.031	QP	34.2	22.4	10.9	30.5	37.0	53.9	16.9	100	217	
Vert.	1654.000	PK	51.7	25.7	12.8	40.2	50.0	73.9	23.9	100	323	
Vert.	2400.055	PK	51.0	27.5	13.3	40.2	51.6	73.9	22.3	100	302	
Vert.	2483.500	PK	50.7	27.6	13.4	40.1	51.6	73.9	22.3	111	321	
Vert.	3308.000	PK	48.4	29.3	4.9	41.1	41.5	73.9	32.4	100	0	
Vert.	4137.000	PK	48.8	30.2	5.1	40.6	43.5	73.9	30.4	100	0	
Vert.	4960.000	PK	57.3	31.9	5.6	40.0	54.8	73.9	19.1	100	343	
Vert.	7440.000	PK	47.5	36.9	7.1	38.7	52.8	73.9	21.1	100	0	
Vert.	9920.000	PK	45.6	38.4	8.0	37.5	54.5	73.9	19.4	100	0	
Vert.	12400.000	PK	45.7	39.1	9.4	37.9	56.3	73.9	17.6	100	0	
Vert.	1654.000	AV	45.8	25.7	12.8	40.2	44.1	53.9	9.8	100	323	VBW = 10Hz
Vert.	2400.055	AV	42.6	27.5	13.3	40.2	43.2	53.9	10.7	100	302	VBW = 10Hz
Vert.	3308.000	AV	38.5	29.3	4.9	41.1	31.6	53.9	22.3	100	0	VBW = 10Hz
Vert.	4137.000	AV	37.9	30.2	5.1	40.6	32.6	53.9	21.3	100	0	VBW = 10Hz

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

*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	41.7	27.6	13.4	40.1	-30.7	11.9	54.0	42.1	VBW = 300Hz
Hori.	4960.000	AV	51.1	31.9	5.6	40.0	-30.7	17.9	54.0	36.1	VBW = 300Hz
Hori.	7440.000	AV	37.5	36.9	7.1	38.7	-30.7	12.1	54.0	41.9	VBW = 300Hz
Hori.	9920.000	AV	35.0	38.4	8.0	37.5	-30.7	13.2	54.0	40.8	VBW = 300Hz
Hori.	12400.000	AV	35.4	39.1	9.4	37.9	-30.7	15.3	54.0	38.7	VBW = 300Hz
Vert.	2483.500	AV	41.3	27.6	13.4	40.1	-30.7	11.5	54.0	42.5	VBW = 300Hz
Vert.	4960.000	AV	53.4	31.9	5.6	40.0	-30.7	20.2	54.0	33.8	VBW = 300Hz
Vert.	7440.000	AV	37.1	36.9	7.1	38.7	-30.7	11.7	54.0	42.3	VBW = 300Hz
Vert.	9920.000	AV	34.9	38.4	8.0	37.5	-30.7	13.1	54.0	40.9	VBW = 300Hz
Vert.	12400.000	AV	35.3	39.1	9.4	37.9	-30.7	15.2	54.0	38.8	VBW = 300Hz

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

- Gain(Ampriifier) + 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

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
Date August 21, 2010 August 22, 2010
Temperature / Humidity 23deg.C. , 61% 25deg.C. , 64%
Engineer Tatsuya Arai Tatsuya Arai
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.	360.010	QP	44.1	15.5	8.7	31.9	36.4	46.0	9.6	100	223	
Hori.	480.011	QP	42.7	17.0	9.2	31.9	37.0	46.0	9.0	100	148	
Hori.	960.027	QP	35.7	22.5	10.9	30.5	38.6	53.9	15.3	110	284	
Hori.	1602.000	PK	51.5	25.5	12.7	40.1	49.6	73.9	24.3	100	49	
Hori.	2390.000	PK	48.6	27.5	13.3	40.2	49.2	73.9	24.7	100	45	
Hori.	2400.000	PK	58.8	27.5	13.3	40.2	59.4	73.9	14.5	100	45	
Hori.	3204.000	PK	49.1	29.2	4.9	41.1	42.1	73.9	31.8	100	0	
Hori.	4804.000	PK	52.4	31.5	5.5	40.1	49.3	73.9	24.6	104	130	
Hori.	7206.000	PK	48.2	36.4	6.7	38.3	53.0	73.9	20.9	100	0	
Hori.	9608.000	PK	46.7	37.9	7.8	37.3	55.1	73.9	18.8	100	0	
Hori.	12010.000	PK	49.0	39.4	9.0	38.4	59.0	73.9	14.9	100	0	
Hori.	1602.000	AV	45.2	25.5	12.7	40.1	43.3	53.9	10.6	100	49	VBW = 10Hz
Hori.	3204.000	AV	37.8	29.2	4.9	41.1	30.8	53.9	23.1	100	0	VBW = 10Hz
Vert.	360.010	QP	35.5	15.5	8.7	31.9	27.8	46.0	18.2	100	272	
Vert.	480.011	QP	37.9	17.0	9.2	31.9	32.2	46.0	13.8	124	93	
Vert.	960.027	QP	34.4	22.5	10.9	30.5	37.3	53.9	16.6	100	218	
Vert.	1602.000	PK	52.1	25.5	12.7	40.1	50.2	73.9	23.7	100	332	
Vert.	2390.000	PK	49.2	27.5	13.3	40.2	49.8	73.9	24.1	182	326	
Vert.	2400.000	PK	59.2	27.5	13.3	40.2	59.8	73.9	14.1	182	326	
Vert.	3204.000	PK	48.3	29.2	4.9	41.1	41.3	73.9	32.6	100	0	
Vert.	4804.000	PK	51.8	31.5	5.5	40.1	48.7	73.9	25.2	100	241	
Vert.	7206.000	PK	48.9	36.4	6.7	38.3	53.7	73.9	20.2	100	0	
Vert.	9608.000	PK	47.0	37.9	7.8	37.3	55.4	73.9	18.5	100	0	
Vert.	12010.000	PK	49.3	39.4	9.0	38.4	59.3	73.9	14.6	100	0	
Vert.	1602.000	AV	46.3	25.5	12.7	40.1	44.4	53.9	9.5	100	332	VBW = 10Hz
Vert.	3204.000	AV	38.3	29.2	4.9	41.1	31.3	53.9	22.6	100	0	VBW = 10Hz

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	37.6	27.5	13.3	40.2	-30.7	7.5	54.0	46.5	VBW = 300Hz
Hori.	2400.000	AV	46.7	27.5	13.3	40.2	-30.7	16.6	54.0	37.4	VBW = 300Hz
Hori.	4804.000	AV	44.4	31.5	5.5	40.1	-30.7	10.6	54.0	43.4	VBW = 300Hz
Hori.	7206.000	AV	38.3	36.4	6.7	38.3	-30.7	12.4	54.0	41.6	VBW = 300Hz
Hori.	9608.000	AV	36.3	37.9	7.8	37.3	-30.7	14.0	54.0	40.0	VBW = 300Hz
Hori.	12010.000	AV	38.4	39.4	9.0	38.4	-30.7	17.7	54.0	36.3	VBW = 300Hz
Vert.	2390.000	AV	37.1	27.5	13.3	40.2	-30.7	7.0	54.0	47.0	VBW = 300Hz
Vert.	2400.000	AV	47.1	27.5	13.3	40.2	-30.7	17.0	54.0	37.0	VBW = 300Hz
Vert.	4804.000	AV	44.5	31.5	5.5	40.1	-30.7	10.7	54.0	43.3	VBW = 300Hz
Vert.	7206.000	AV	38.4	36.4	6.7	38.3	-30.7	12.5	54.0	41.5	VBW = 300Hz
Vert.	9608.000	AV	36.3	37.9	7.8	37.3	-30.7	14.0	54.0	40.0	VBW = 300Hz
Vert.	12010.000	AV	38.6	39.4	9.0	38.4	-30.7	17.9	54.0	36.1	VBW = 300Hz

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

- Gain(Amplifier) + Dwell time factor (Refer to page 34)

*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

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Facsimile : +81 463 50 6401

Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
Date August 21, 2010 August 22, 2010
Temperature / Humidity 23deg.C. , 61% 25deg.C. , 64%
Engineer Tatsuya Arai Tatsuya Arai
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.	360.010	QP	44.2	15.5	8.7	31.9	36.5	46.0	9.5	100	222	
Hori.	480.016	QP	42.8	17.0	9.2	31.9	37.1	46.0	8.9	100	145	
Hori.	960.027	QP	35.4	22.4	10.9	30.5	38.2	53.9	15.7	113	284	
Hori.	1628.000	PK	52.5	25.6	12.7	40.1	50.7	73.9	23.2	100	48	
Hori.	2400.055	PK	53.6	27.5	13.3	40.2	54.2	73.9	19.7	100	275	
Hori.	3256.000	PK	48.6	29.3	4.8	41.1	41.6	73.9	32.3	100	0	
Hori.	4882.000	PK	51.7	31.7	5.6	40.0	49.0	73.9	24.9	100	60	
Hori.	7323.000	PK	48.3	36.7	6.9	38.5	53.4	73.9	20.5	100	0	
Hori.	9764.000	PK	46.3	38.2	7.8	37.4	54.9	73.9	19.0	100	0	
Hori.	12205.000	PK	47.6	39.2	9.1	38.1	57.8	73.9	16.1	100	0	
Hori.	1628.000	AV	47.2	25.6	12.7	40.1	45.4	53.9	8.5	100	48	VBW = 10Hz
Hori.	2400.055	AV	48.5	27.5	13.3	40.2	49.1	53.9	4.8	100	275	VBW = 10Hz
Hori.	3256.000	AV	38.2	29.3	4.8	41.1	31.2	53.9	22.7	100	0	VBW = 10Hz
Vert.	360.010	QP	35.8	15.5	8.7	31.9	28.1	46.0	17.9	100	357	
Vert.	480.016	QP	37.2	17.0	9.2	31.9	31.5	46.0	14.5	100	116	
Vert.	960.027	QP	34.3	22.4	10.9	30.5	37.1	53.9	16.8	100	215	
Vert.	1628.000	PK	52.8	25.6	12.7	40.1	51.0	73.9	22.9	100	330	
Vert.	2400.055	PK	50.5	27.5	13.3	40.2	51.1	73.9	22.8	100	302	
Vert.	3256.000	PK	49.1	29.3	4.8	41.1	42.1	73.9	31.8	100	0	
Vert.	4882.000	PK	52.2	31.7	5.6	40.0	49.5	73.9	24.4	100	241	
Vert.	7323.000	PK	47.3	36.7	6.9	38.5	52.4	73.9	21.5	100	0	
Vert.	9764.000	PK	46.4	38.2	7.8	37.4	55.0	73.9	18.9	100	0	
Vert.	12205.000	PK	47.5	39.2	9.1	38.1	57.7	73.9	16.2	100	0	
Vert.	1628.000	AV	47.5	25.6	12.7	40.1	45.7	53.9	8.2	100	330	VBW = 10Hz
Vert.	2400.055	AV	42.7	27.5	13.3	40.2	43.3	53.9	10.6	100	302	VBW = 10Hz
Vert.	3256.000	AV	38.6	29.3	4.8	41.1	31.6	53.9	22.3	100	0	VBW = 10Hz

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	42.7	31.7	5.6	40.0	-30.7	9.3	54.0	44.7	VBW = 300Hz
Hori.	7323.000	AV	37.4	36.7	6.9	38.5	-30.7	11.8	54.0	42.2	VBW = 300Hz
Hori.	9764.000	AV	35.9	38.2	7.8	37.4	-30.7	13.8	54.0	40.2	VBW = 300Hz
Hori.	12205.000	AV	37.1	39.2	9.1	38.1	-30.7	16.6	54.0	37.4	VBW = 300Hz
Vert.	4882.000	AV	44.1	31.7	5.6	40.0	-30.7	10.7	54.0	43.3	VBW = 300Hz
Vert.	7323.000	AV	37.4	36.7	6.9	38.5	-30.7	11.8	54.0	42.2	VBW = 300Hz
Vert.	9764.000	AV	35.9	38.2	7.8	37.4	-30.7	13.8	54.0	40.2	VBW = 300Hz
Vert.	12205.000	AV	37.1	39.2	9.1	38.1	-30.7	16.6	54.0	37.4	VBW = 300Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter)
- Gain(Amplifier) + Dwell time factor (Refer to page 34)

*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.

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
Date August 21, 2010 August 22, 2010
Temperature / Humidity 23deg.C. , 61% 25deg.C. , 64%
Engineer Tatsuya Arai Tatsuya Arai
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.	360.010	QP	43.9	15.5	8.7	31.9	36.2	46.0	9.8	100	223	
Hori.	480.011	QP	42.7	17.0	9.2	31.9	37.0	46.0	9.0	100	151	
Hori.	960.022	QP	35.4	22.4	10.9	30.5	38.2	53.9	15.7	114	283	
Hori.	1654.000	PK	53.0	25.7	12.8	40.2	51.3	73.9	22.6	100	48	
Hori.	2400.055	PK	53.0	27.5	13.3	40.2	53.6	73.9	20.3	100	275	
Hori.	2483.500	PK	56.4	27.6	13.4	40.1	57.3	73.9	16.6	100	46	
Hori.	3308.000	PK	48.5	29.3	4.9	41.1	41.6	73.9	32.3	100	0	
Hori.	4960.000	PK	50.8	31.9	5.6	40.0	48.3	73.9	25.6	100	167	
Hori.	7440.000	PK	46.9	36.9	7.1	38.7	52.2	73.9	21.7	100	0	
Hori.	9920.000	PK	44.8	38.4	8.0	37.5	53.7	73.9	20.2	100	0	
Hori.	12400.000	PK	44.9	39.1	9.4	37.9	55.5	73.9	18.4	100	0	
Hori.	1654.000	AV	48.0	25.7	12.8	40.2	46.3	53.9	7.6	100	48	VBW = 10Hz
Hori.	2400.055	AV	48.6	27.5	13.3	40.2	49.2	53.9	4.7	100	275	VBW = 10Hz
Hori.	3308.000	AV	38.3	29.3	4.9	41.1	31.4	53.9	22.5	100	0	VBW = 10Hz
Vert.	360.010	QP	35.5	15.5	8.7	31.9	27.8	46.0	18.2	100	356	
Vert.	480.011	QP	37.7	17.0	9.2	31.9	32.0	46.0	14.0	119	89	
Vert.	960.027	QP	34.2	22.4	10.9	30.5	37.0	53.9	16.9	100	219	
Vert.	1654.000	PK	51.9	25.7	12.8	40.2	50.2	73.9	23.7	100	322	
Vert.	2400.055	PK	50.8	27.5	13.3	40.2	51.4	73.9	22.5	100	302	
Vert.	2483.500	PK	53.4	27.6	13.4	40.1	54.3	73.9	19.6	109	320	
Vert.	3308.000	PK	48.7	29.3	4.9	41.1	41.8	73.9	32.1	100	0	
Vert.	4960.000	PK	52.2	31.9	5.6	40.0	49.7	73.9	24.2	100	334	
Vert.	7440.000	PK	47.6	36.9	7.1	38.7	52.9	73.9	21.0	100	0	
Vert.	9920.000	PK	45.9	38.4	8.0	37.5	54.8	73.9	19.1	100	0	
Vert.	12400.000	PK	45.9	39.1	9.4	37.9	56.5	73.9	17.4	100	0	
Vert.	1654.000	AV	45.7	25.7	12.8	40.2	44.0	53.9	9.9	100	322	VBW = 10Hz
Vert.	2400.055	AV	42.7	27.5	13.3	40.2	43.3	53.9	10.6	100	302	VBW = 10Hz
Vert.	3308.000	AV	38.7	29.3	4.9	41.1	31.8	53.9	22.1	100	0	VBW = 10Hz

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	46.3	27.6	13.4	40.1	-30.7	16.5	54.0	37.5	VBW = 300Hz
Hori.	4960.000	AV	42.0	31.9	5.6	40.0	-30.7	8.8	54.0	45.2	VBW = 300Hz
Hori.	7440.000	AV	37.1	36.9	7.1	38.7	-30.7	11.7	54.0	42.3	VBW = 300Hz
Hori.	9920.000	AV	35.0	38.4	8.0	37.5	-30.7	13.2	54.0	40.8	VBW = 300Hz
Hori.	12400.000	AV	35.4	39.1	9.4	37.9	-30.7	15.3	54.0	38.7	VBW = 300Hz
Vert.	2483.500	AV	43.1	27.6	13.4	40.1	-30.7	13.3	54.0	40.7	VBW = 300Hz
Vert.	4960.000	AV	44.1	31.9	5.6	40.0	-30.7	10.9	54.0	43.1	VBW = 300Hz
Vert.	7440.000	AV	37.1	36.9	7.1	38.7	-30.7	11.7	54.0	42.3	VBW = 300Hz
Vert.	9920.000	AV	35.0	38.4	8.0	37.5	-30.7	13.2	54.0	40.8	VBW = 300Hz
Vert.	12400.000	AV	35.5	39.1	9.4	37.9	-30.7	15.4	54.0	38.6	VBW = 300Hz

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter)
- Gain(Amplifier) + Dwell time factor (Refer to page 34)

*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.

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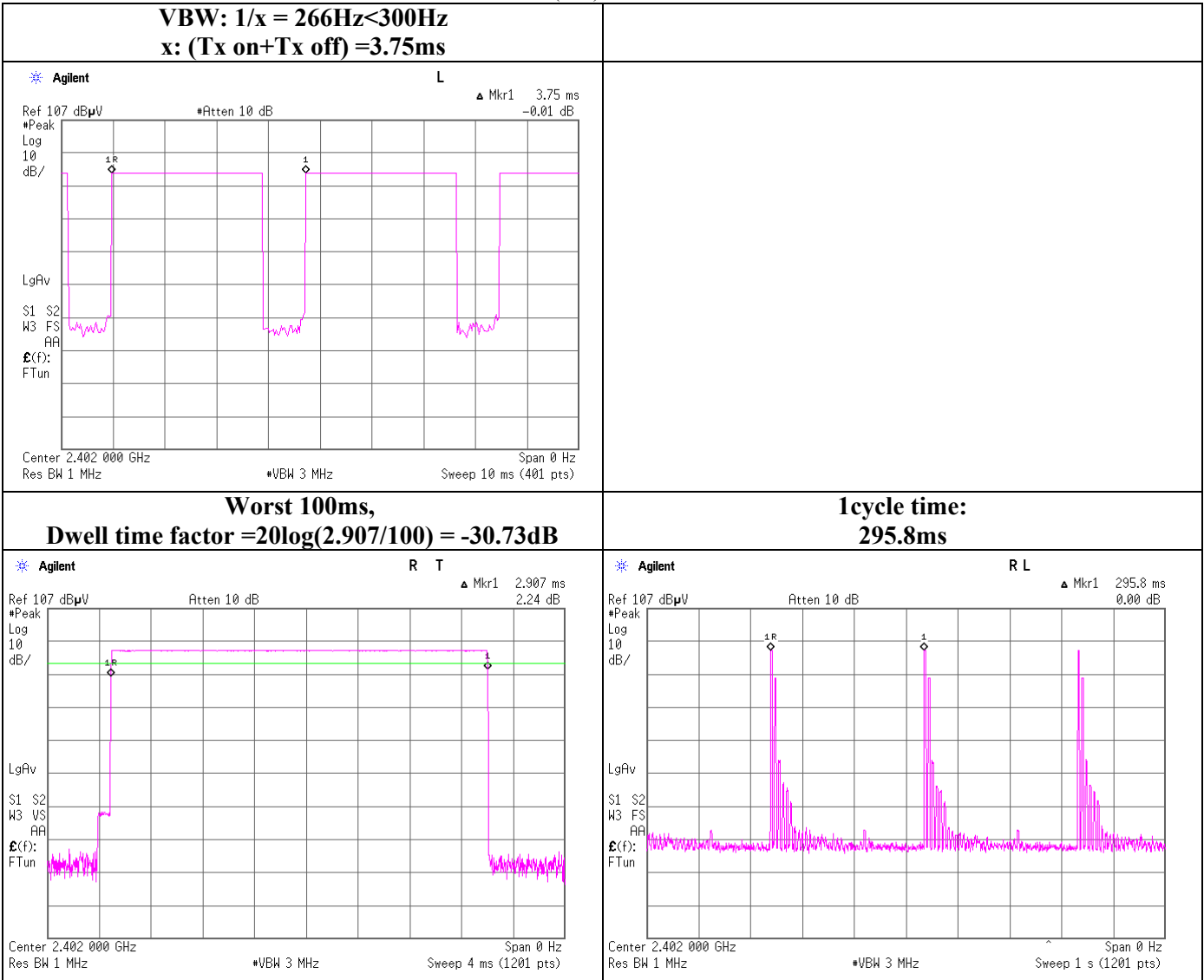
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Spurious emission (Radiated)

DH5,

VBW (AV) Calculation

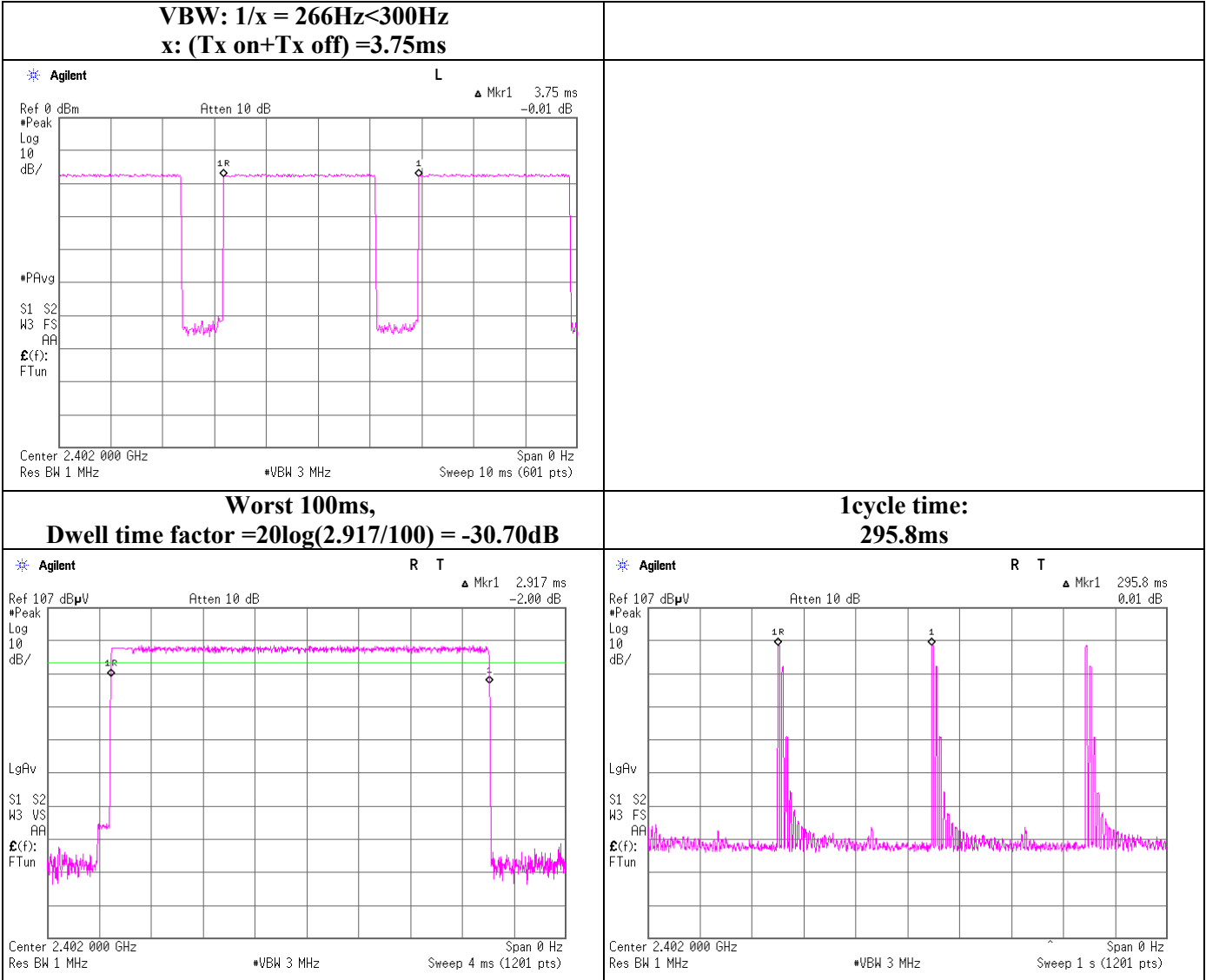


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Spurious emission (Radiated)

3-DH5,
VBW (AV) Calculation



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Spurious emission (Conducted)

DH5,
Tx, 2402MHz



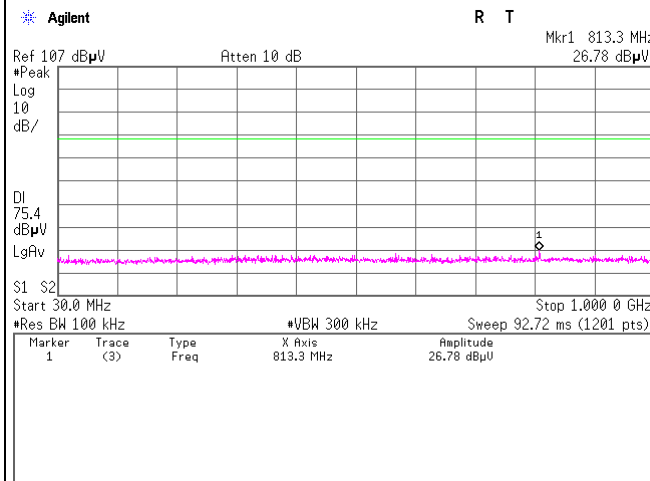
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Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

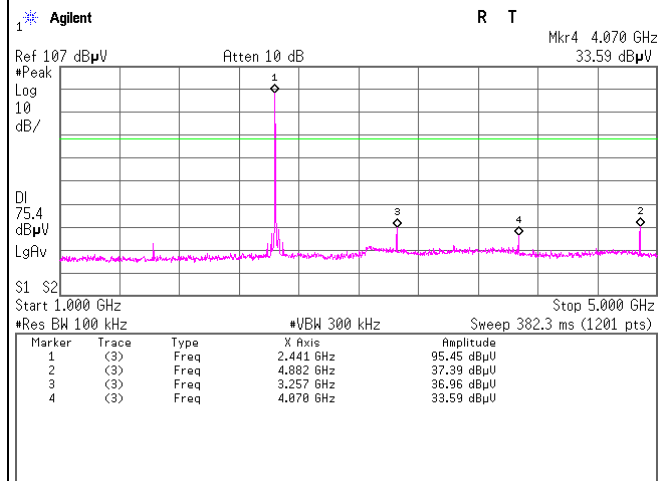
Spurious emission (Conducted)

DH5,
Tx, 2441MHz

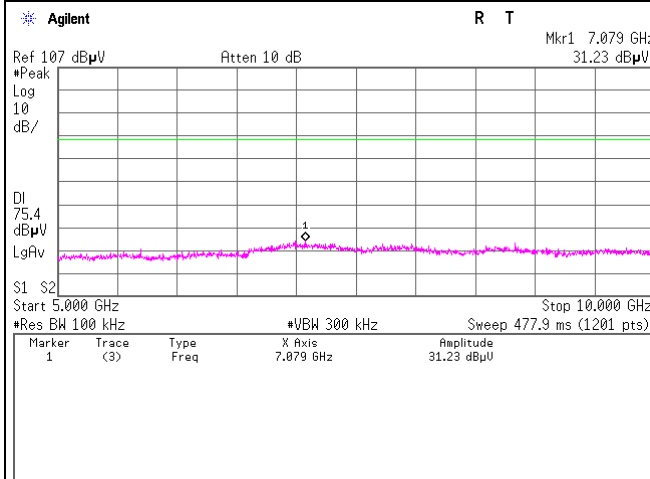
30MHz - 1GHz



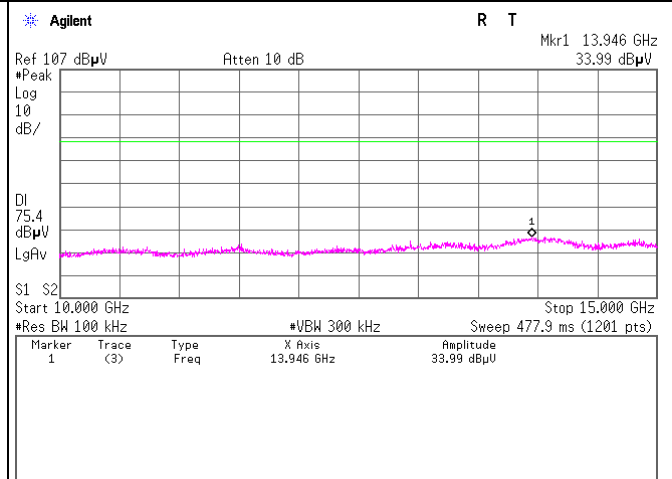
1GHz - 5GHz



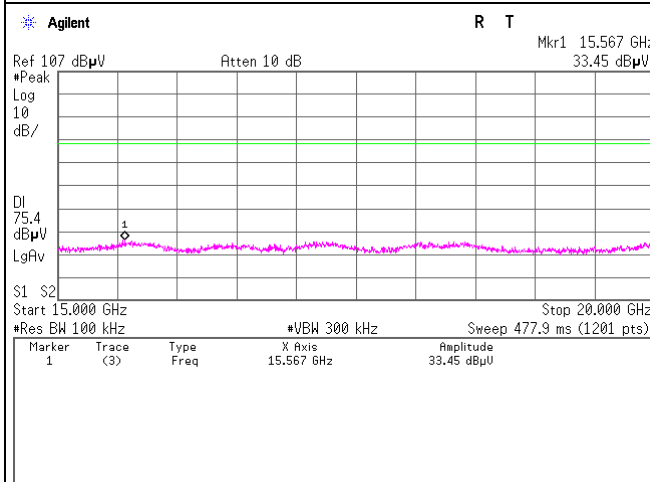
5GHz - 10GHz



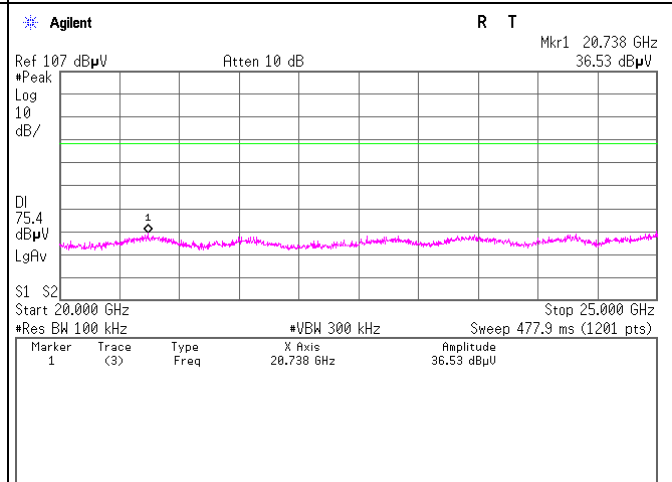
10GHz - 15GHz



15GHz - 20GHz



20GHz - 25GHz



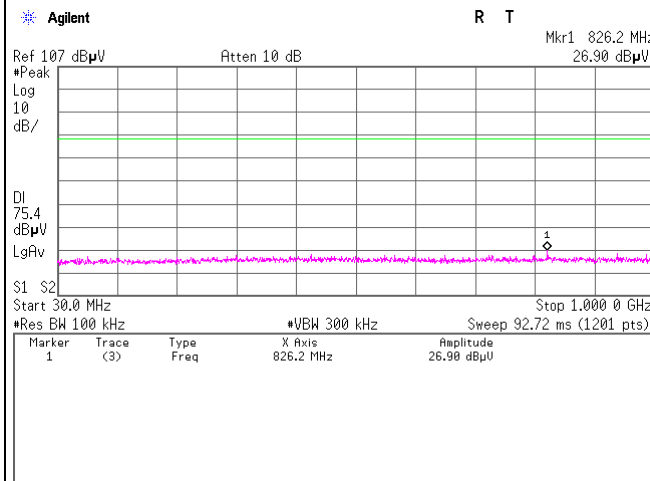
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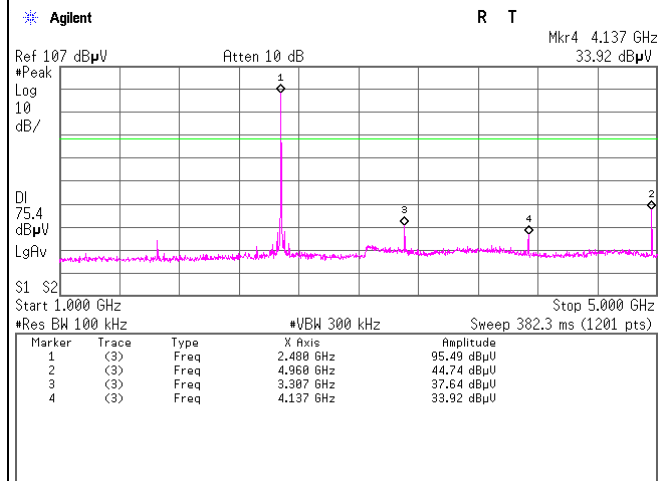
Spurious emission (Conducted)

DH5,
Tx, 2480MHz

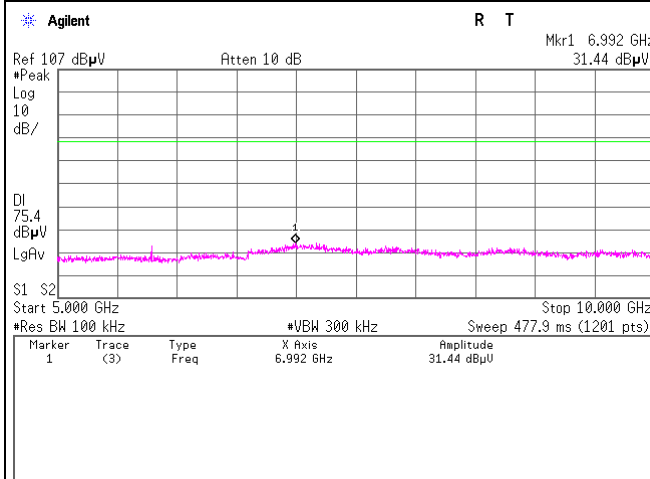
30MHz - 1GHz



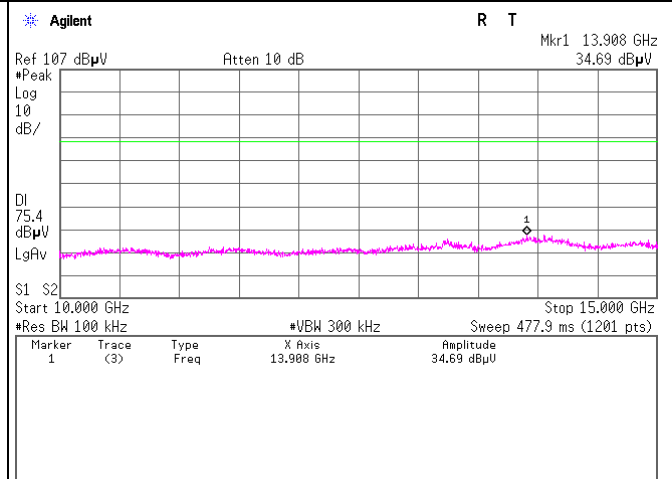
1GHz - 5GHz



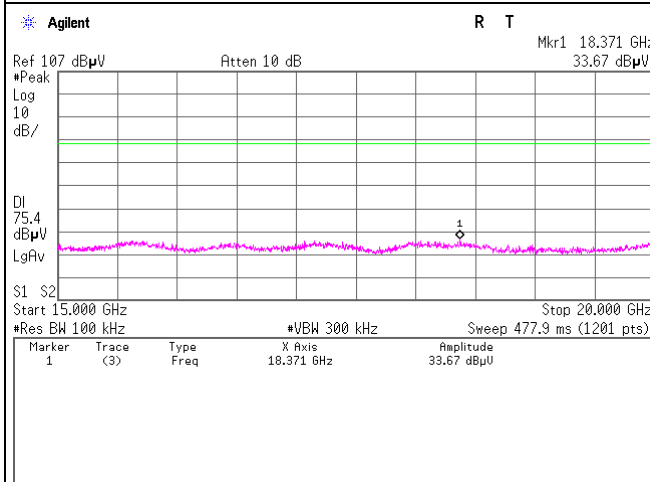
5GHz - 10GHz



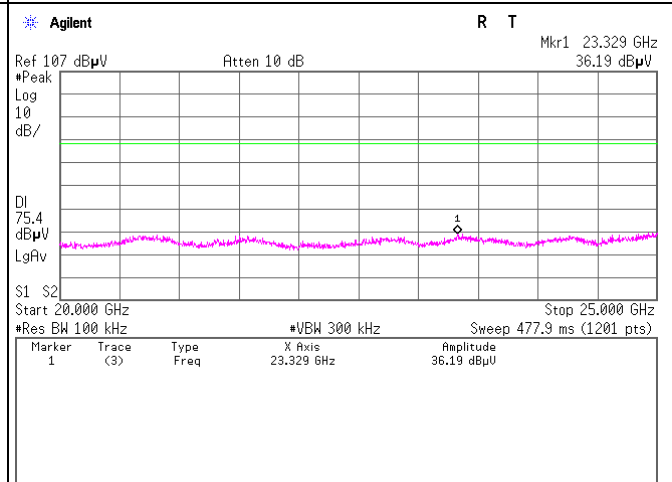
10GHz - 15GHz



15GHz - 20GHz



20GHz - 25GHz



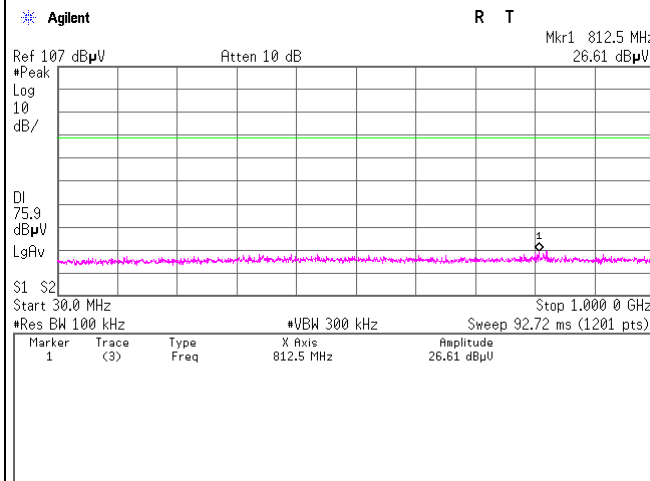
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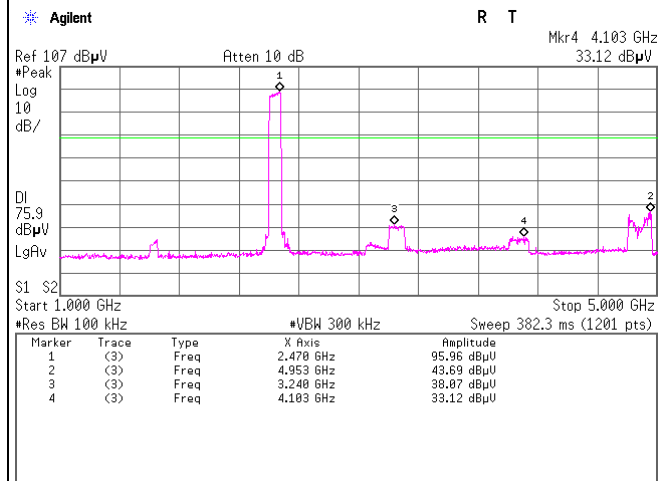
Spurious emission (Conducted)

DH5,
Hopping

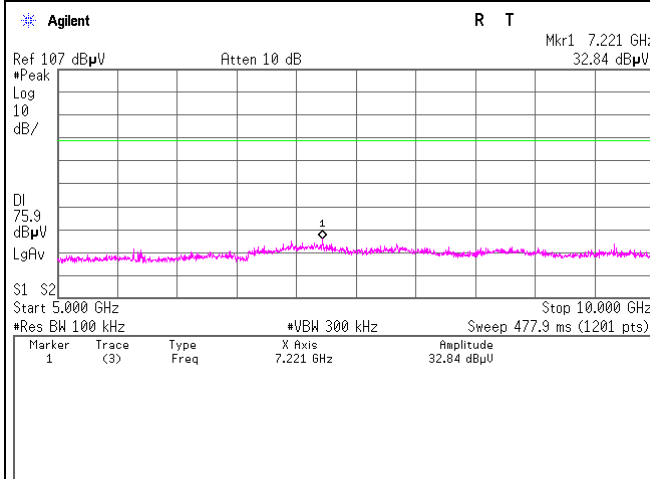
30MHz - 1GHz



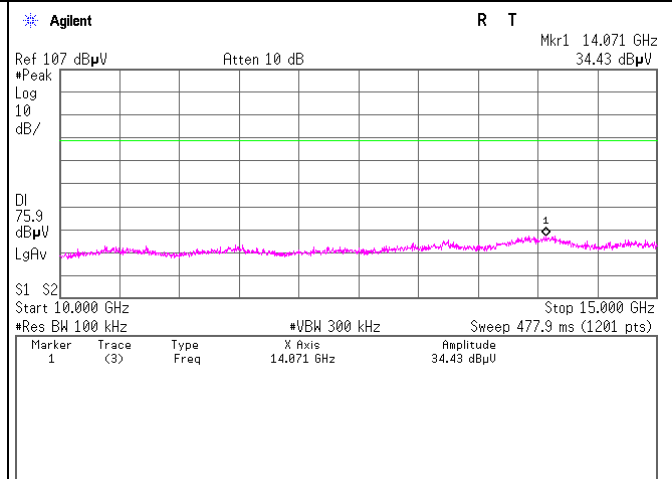
1GHz - 5GHz



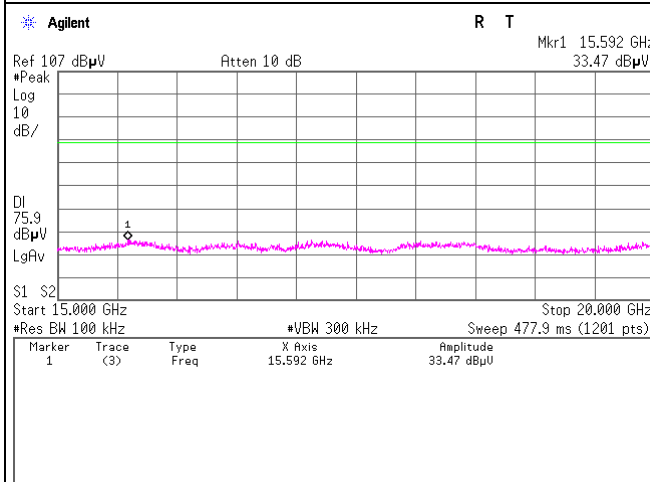
5GHz - 10GHz



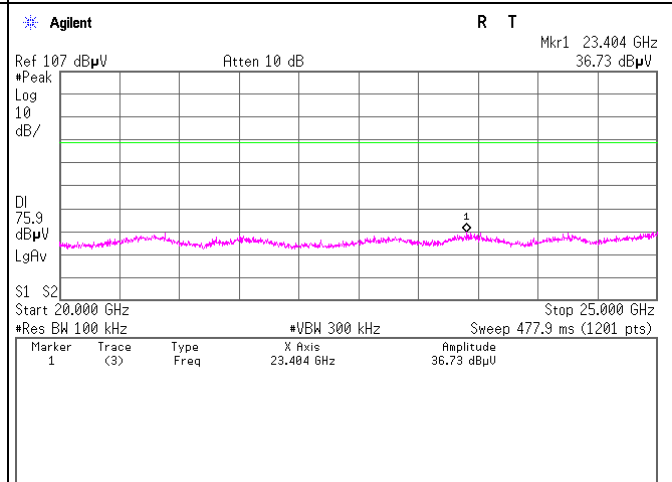
10GHz - 15GHz



15GHz - 20GHz



20GHz - 25GHz



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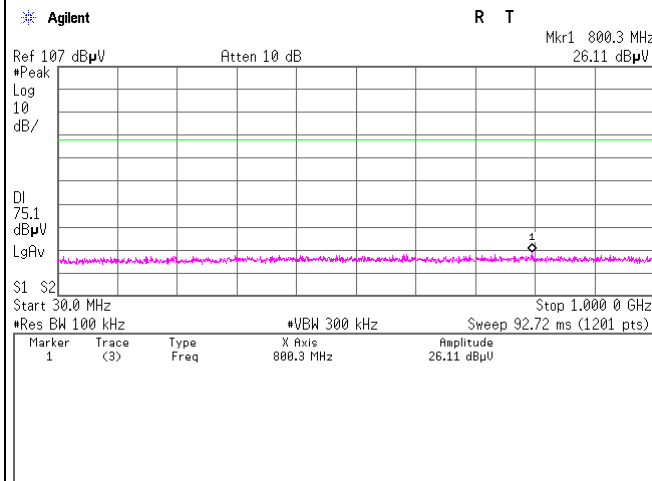
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

Spurious emission (Conducted)

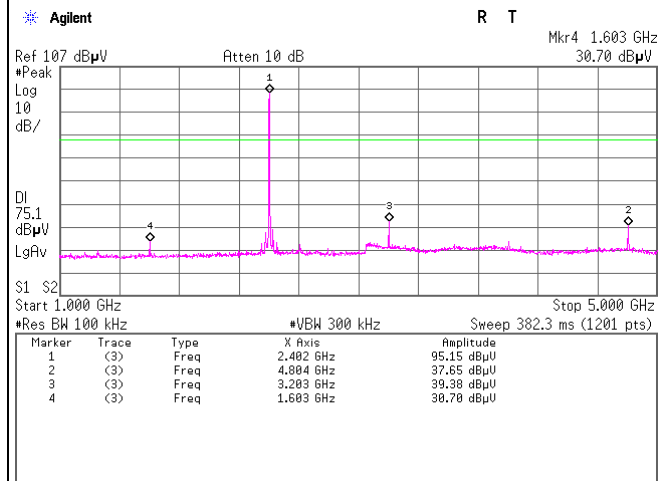
3-DH5,

Tx, 2402MHz

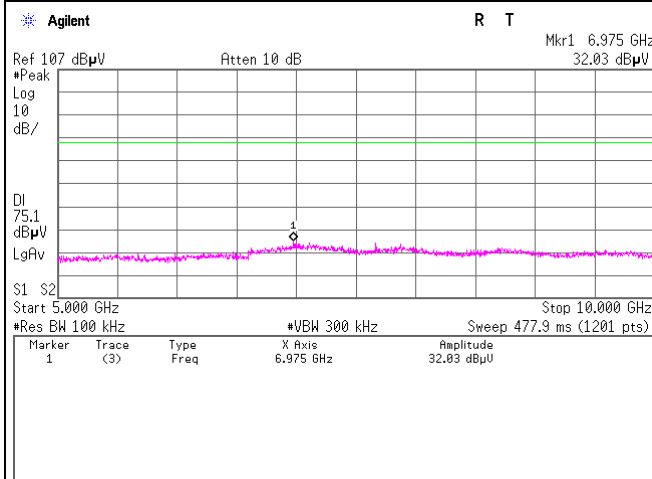
30MHz - 1GHz



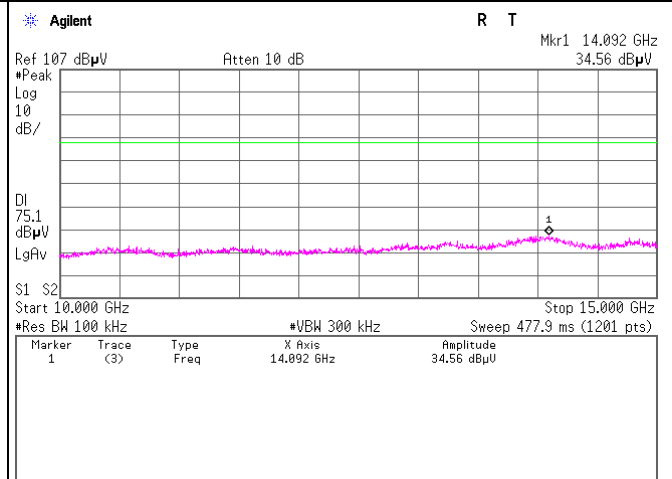
1GHz - 5GHz



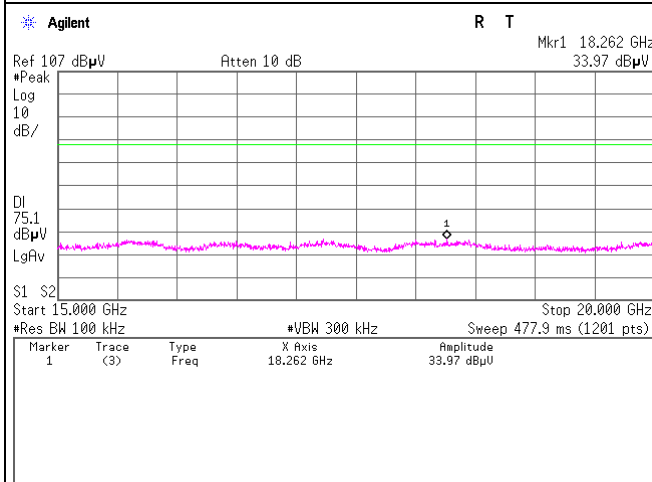
5GHz - 10GHz



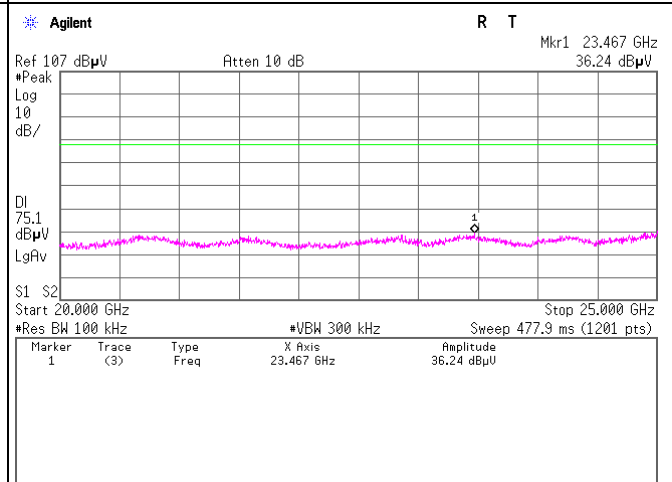
10GHz - 15GHz



15GHz - 20GHz



20GHz - 25GHz



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Spurious emission (Conducted)

3-DH5,

Tx, 2441MHz

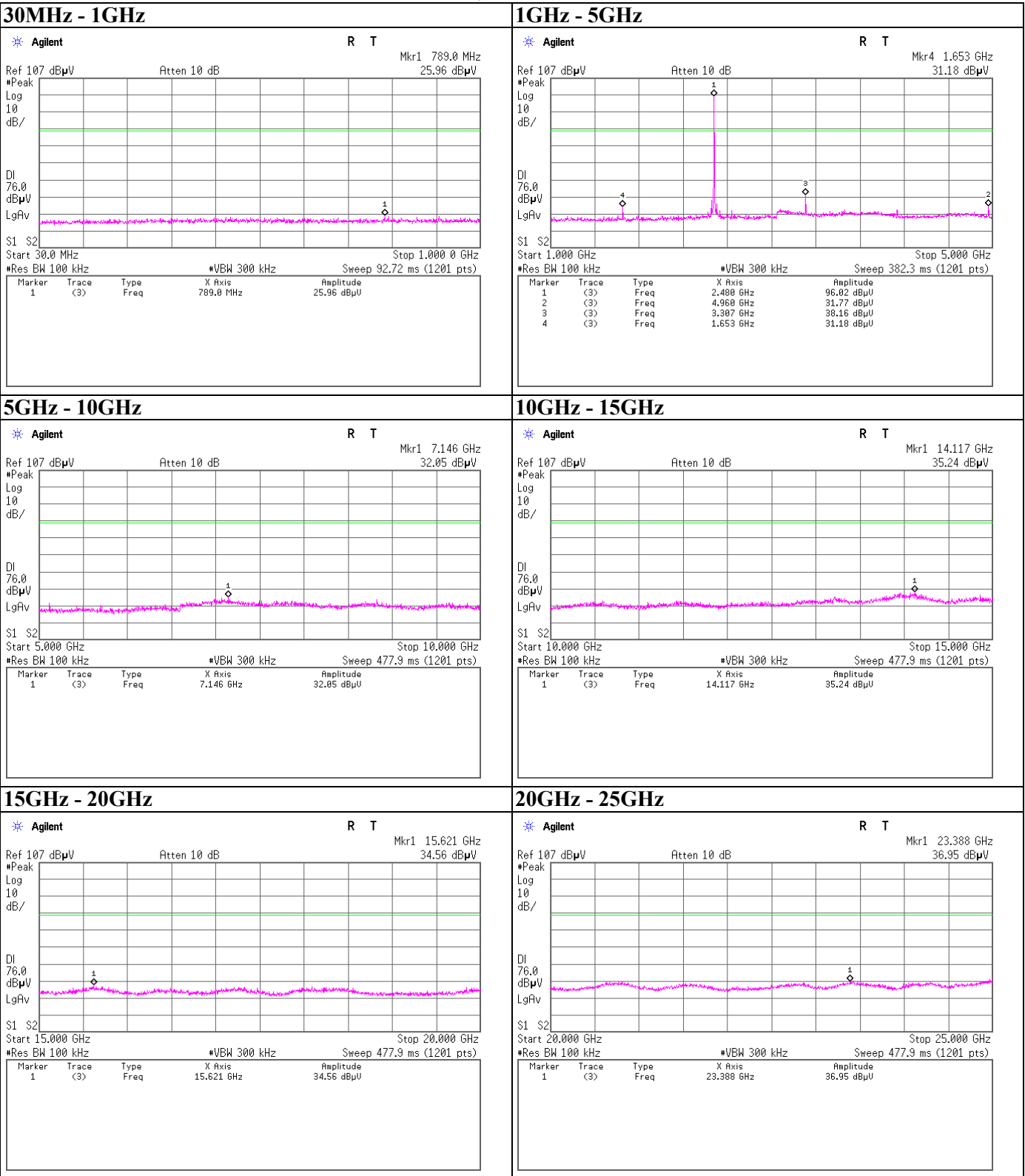


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Spurious emission (Conducted)

3-DH5,
Tx, 2480MHz



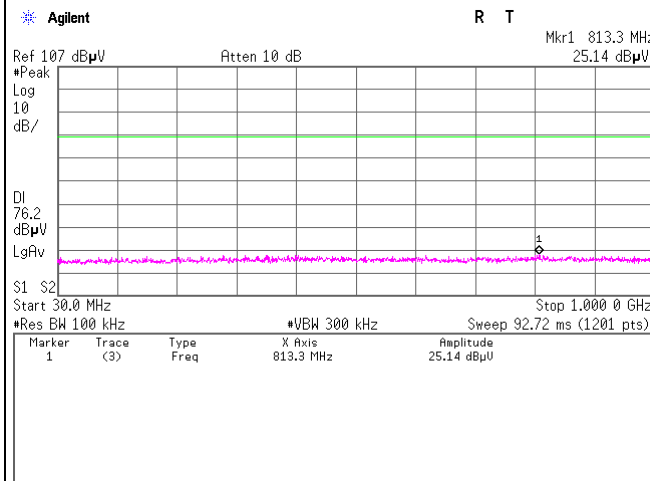
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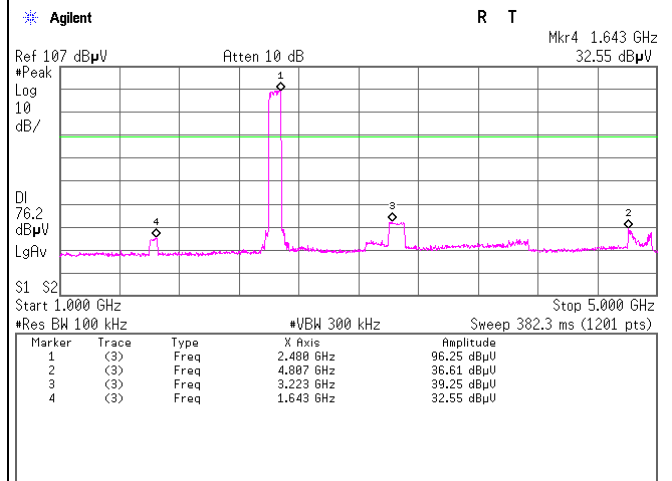
Spurious emission (Conducted)

3-DH5,
Hopping

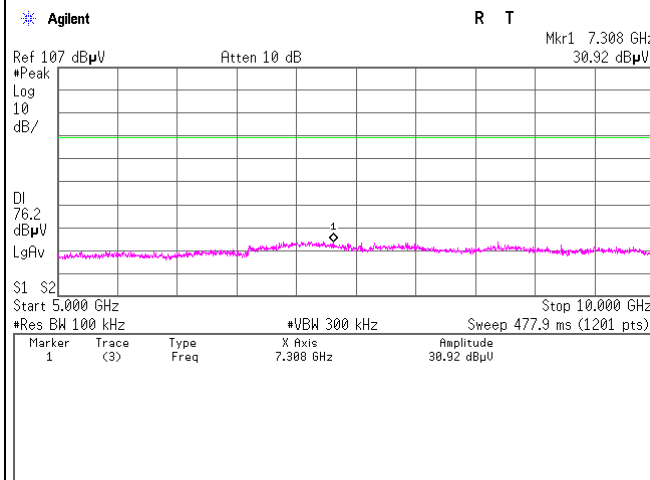
30MHz - 1GHz



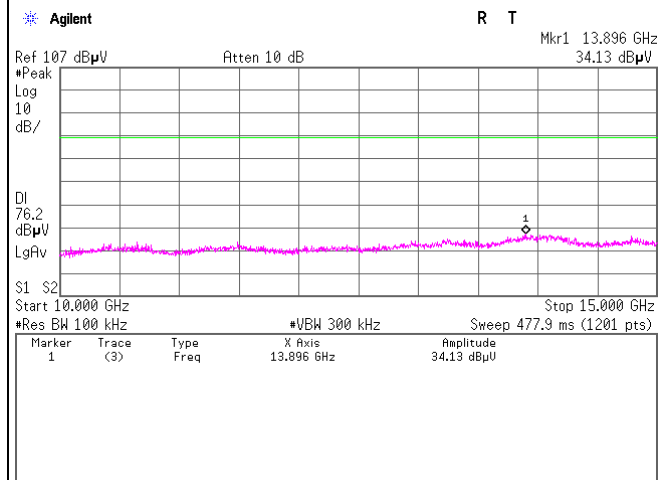
1GHz - 5GHz



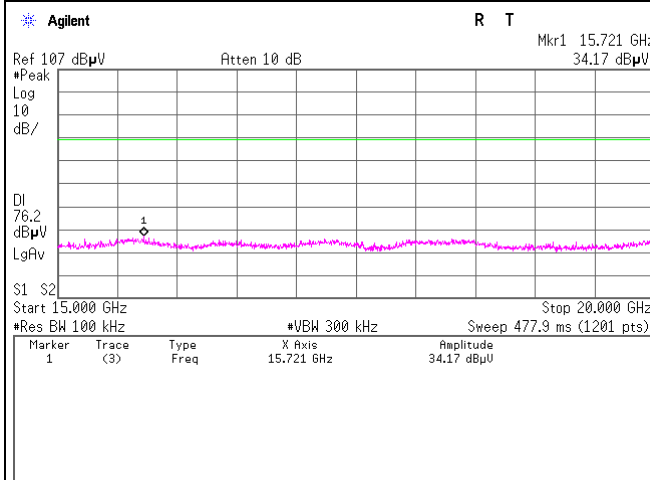
5GHz - 10GHz



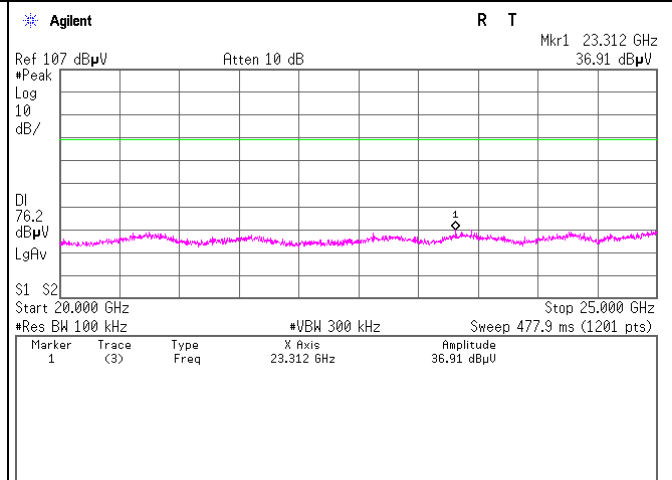
10GHz - 15GHz



15GHz - 20GHz



20GHz - 25GHz



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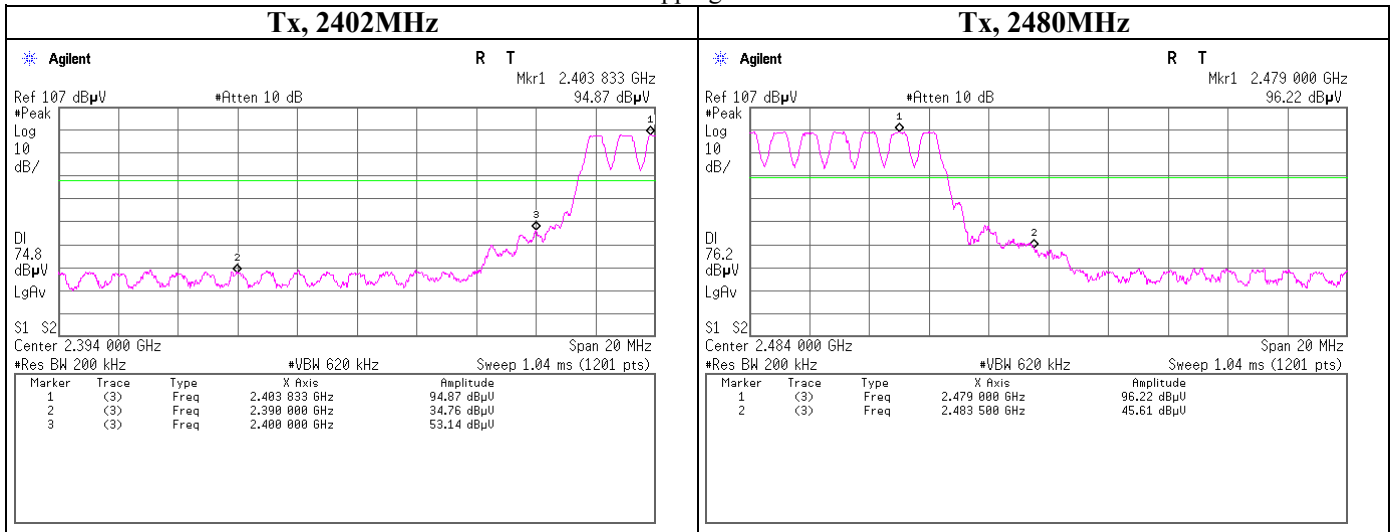
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

Spurious emission (Conducted)

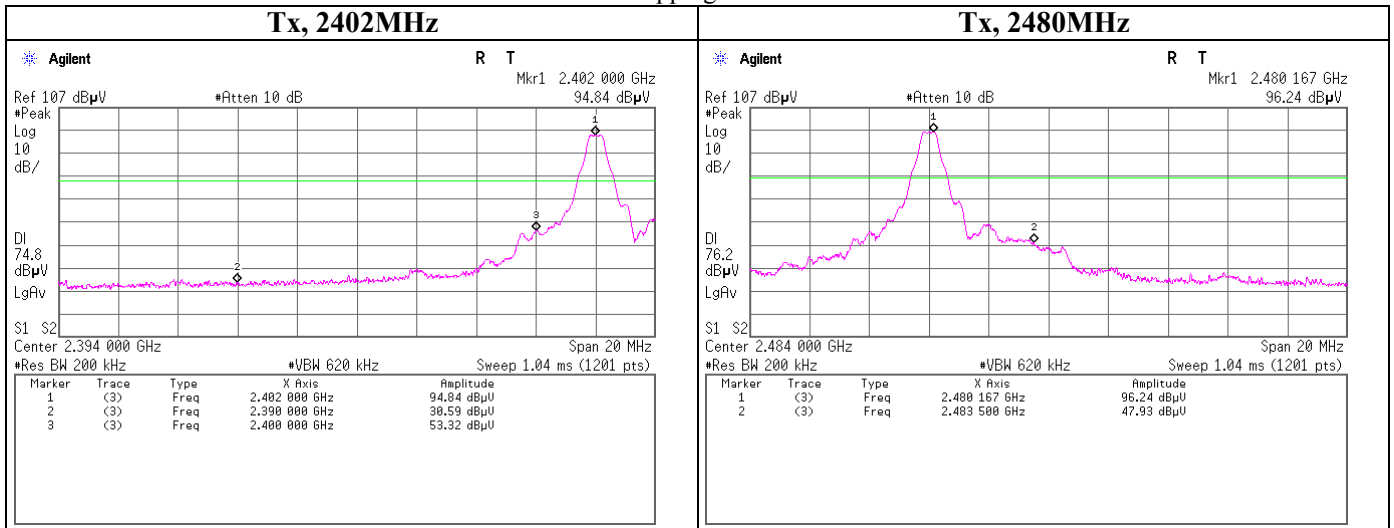
Band Edge compliance

DH5,

Hopping ON



Hopping OFF



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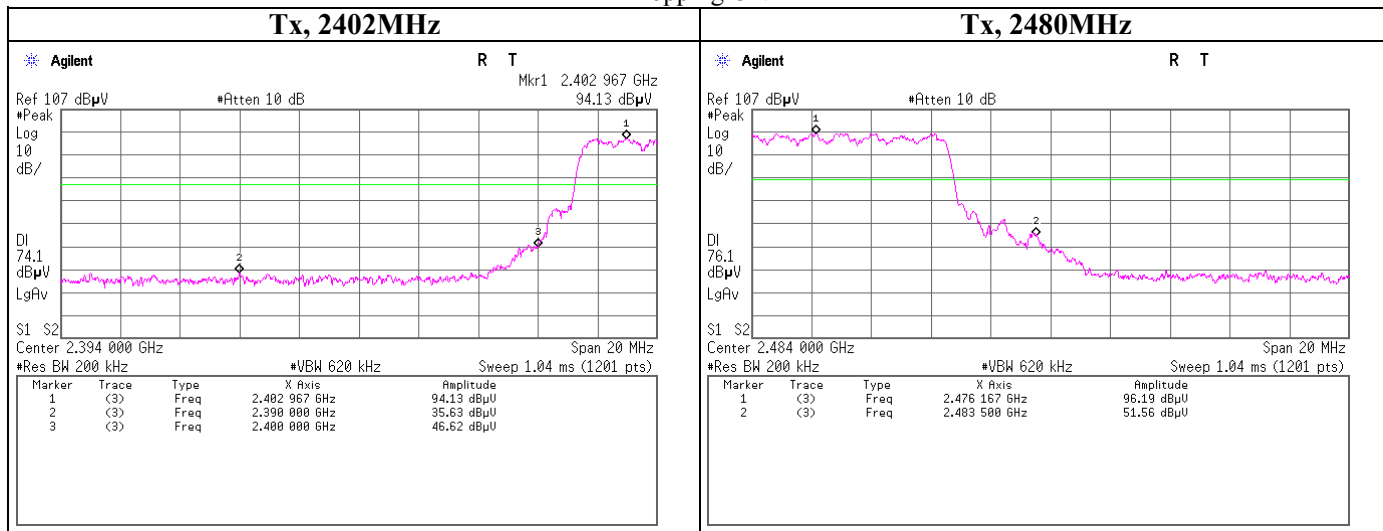
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

Spurious emission (Conducted)

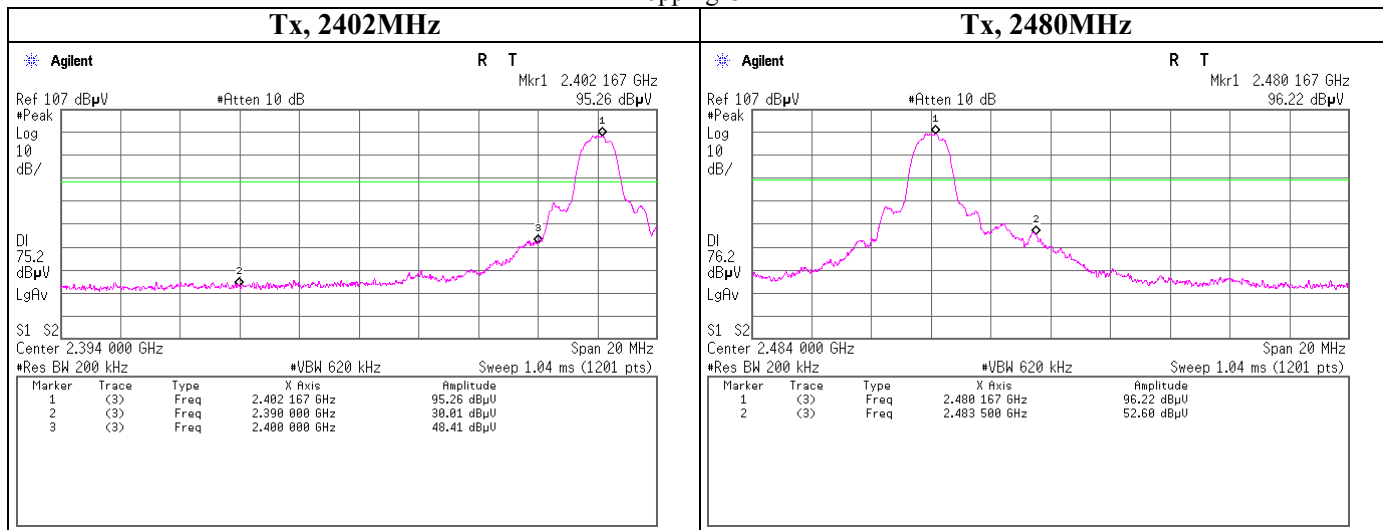
Band Edge compliance

3-DH5,

Hopping ON



Hopping OFF

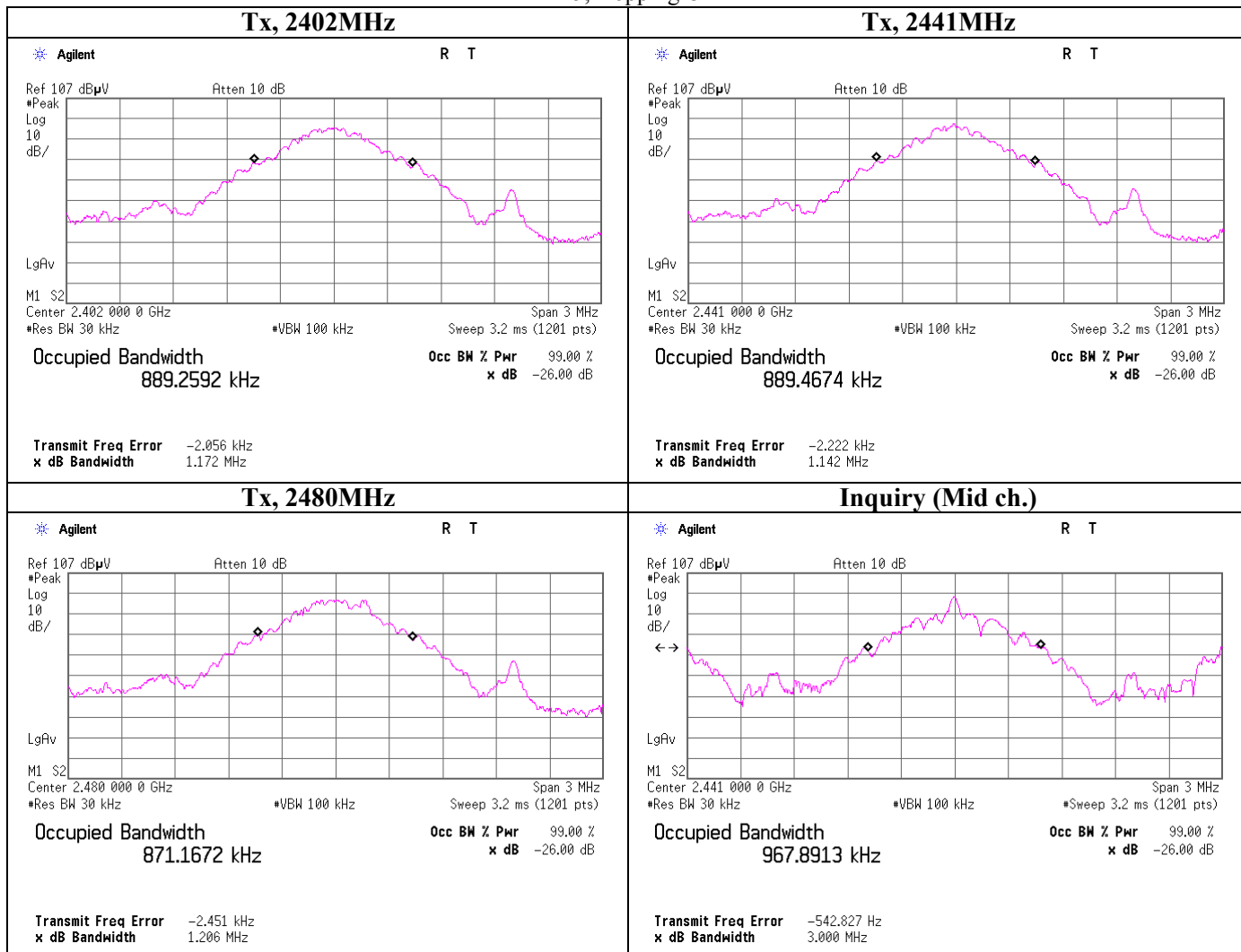


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Shonan EMC Lab.

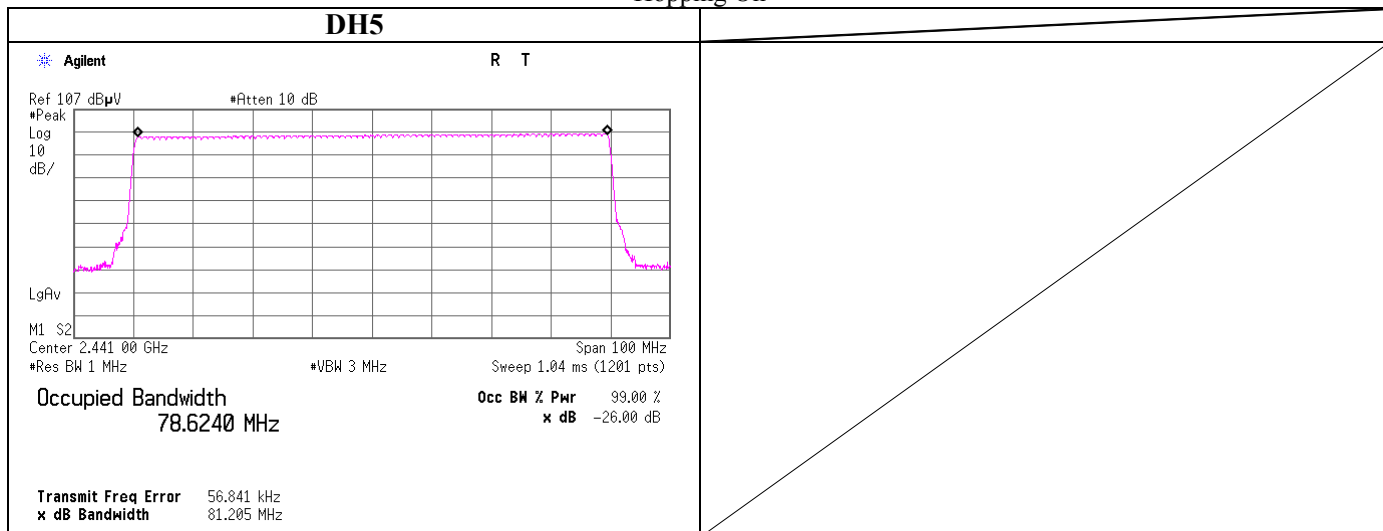
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
Telephone : +81 463 50 6400
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99% Occupied Bandwidth

DH5, Hopping Off



Hopping On

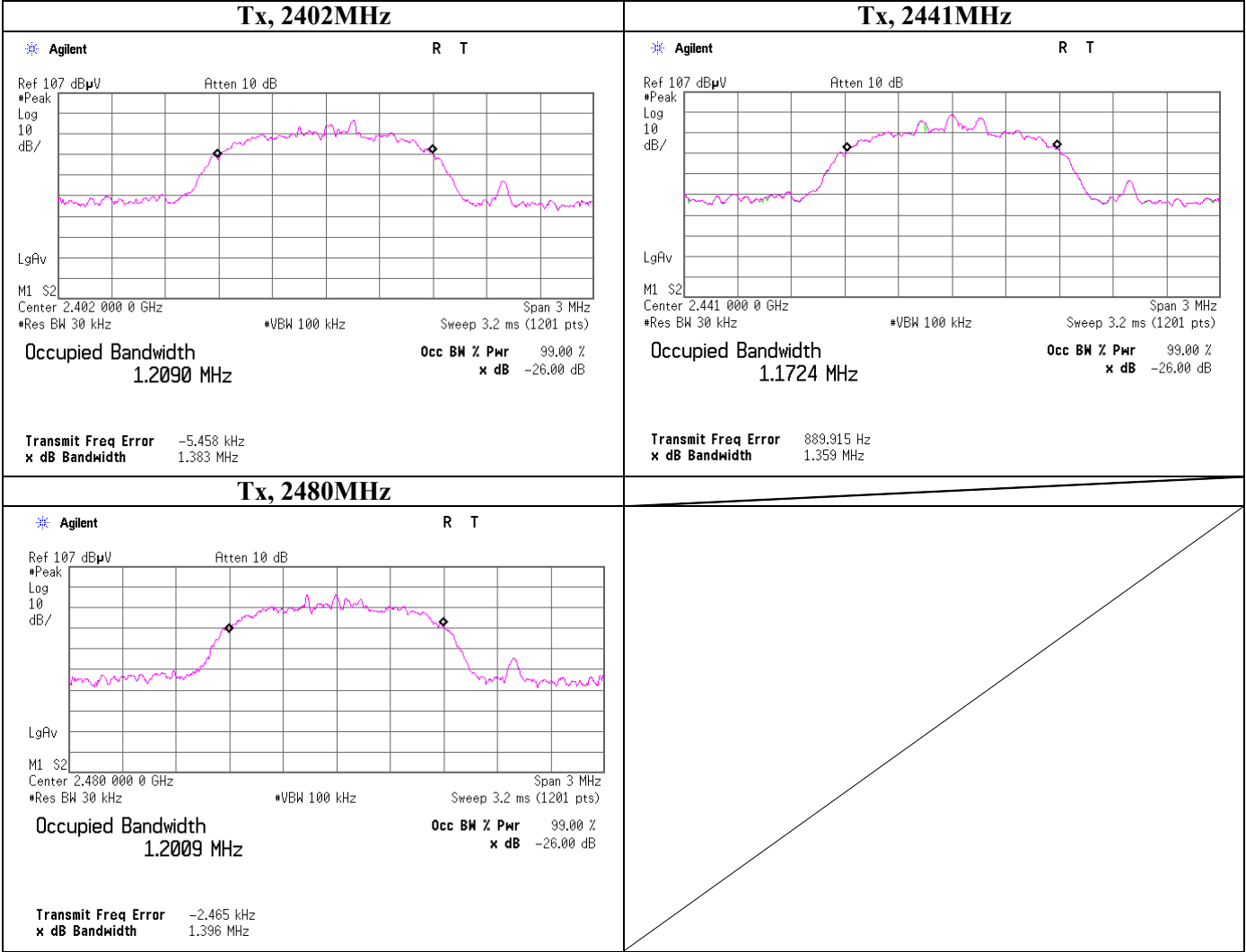


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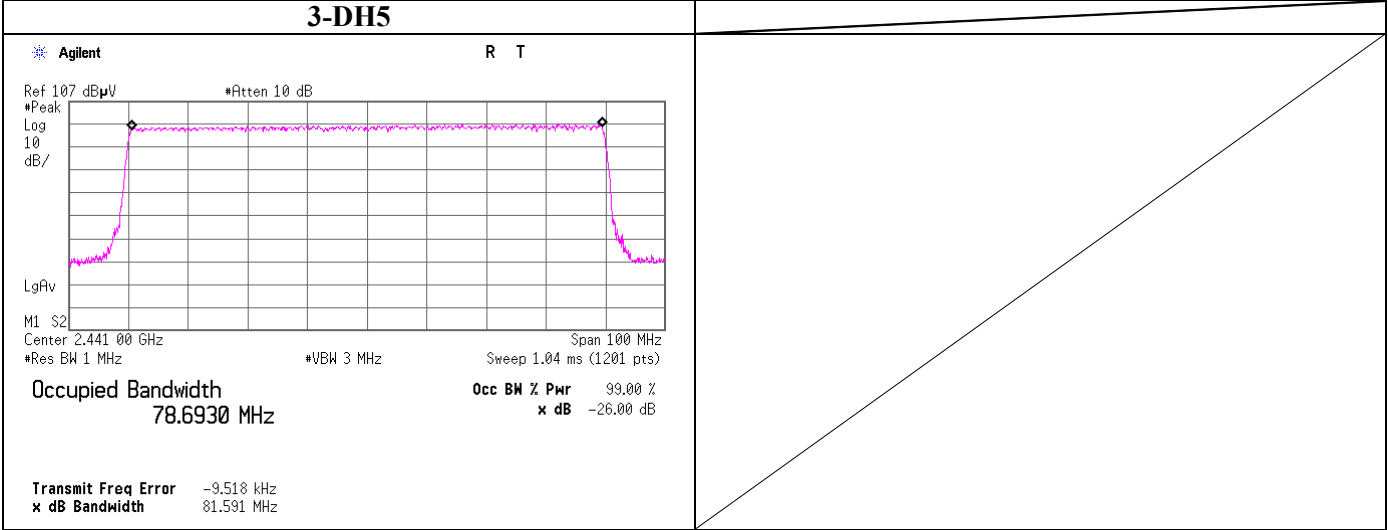
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Telephone : +81 463 50 6400
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99% Occupied Bandwidth

3-DH5, Hopping Off



Hopping On



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)

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