

# DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No. Shielded Room  
Date : 2011/07/15

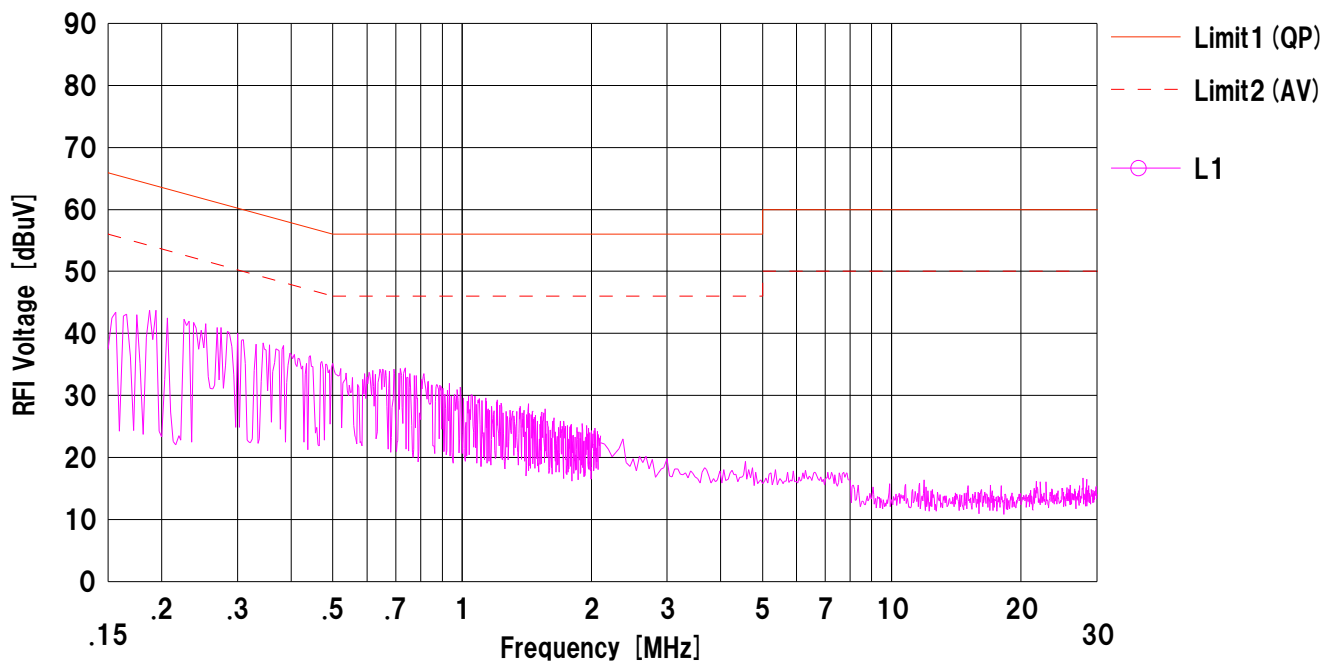
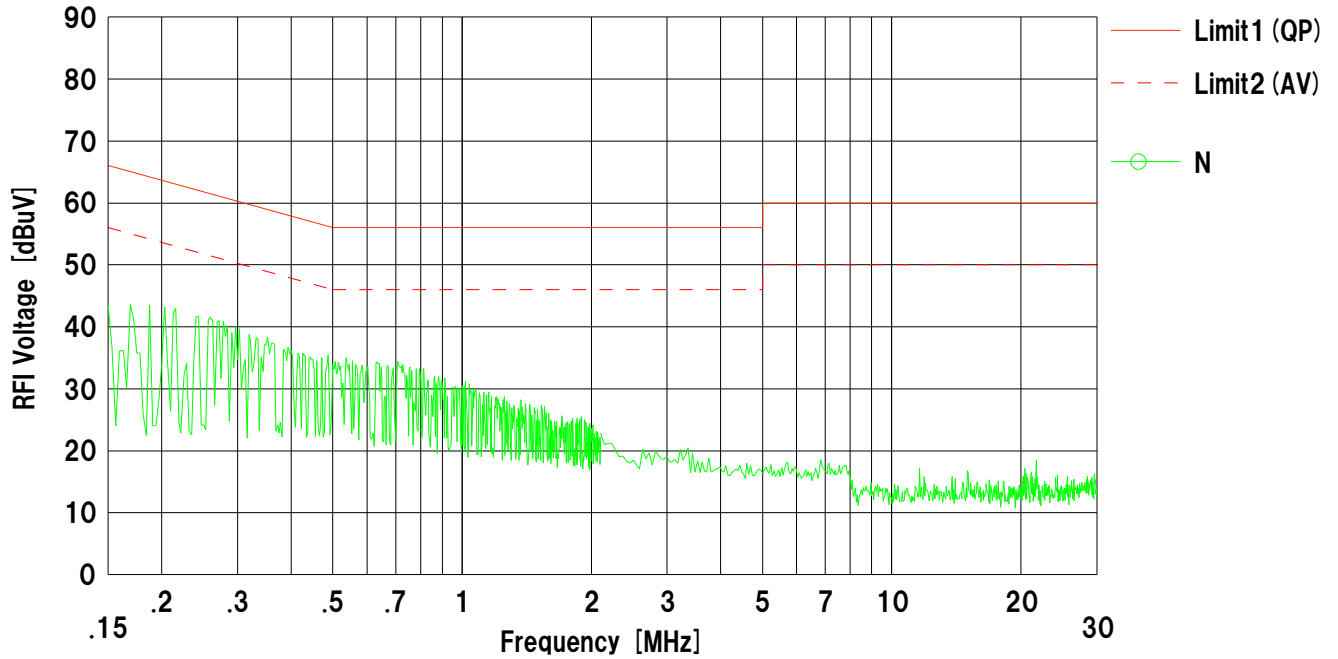
Company : CANON INC.  
Kind of EUT : Wireless Module  
Model No. : CH9-1216  
Serial No. : T029B

Mode : Tx 2405MHz  
Report No. : 31EE0027-H0-01-A  
Power : DC3.2V  
Temp./Humi. : 27deg.C. / 68%RH

Remarks : -

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Tatsuya Arai



Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+ATT) [dB]  
LISN:SLS-01

# DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.1 Shielded Room  
Date : 2011/07/15

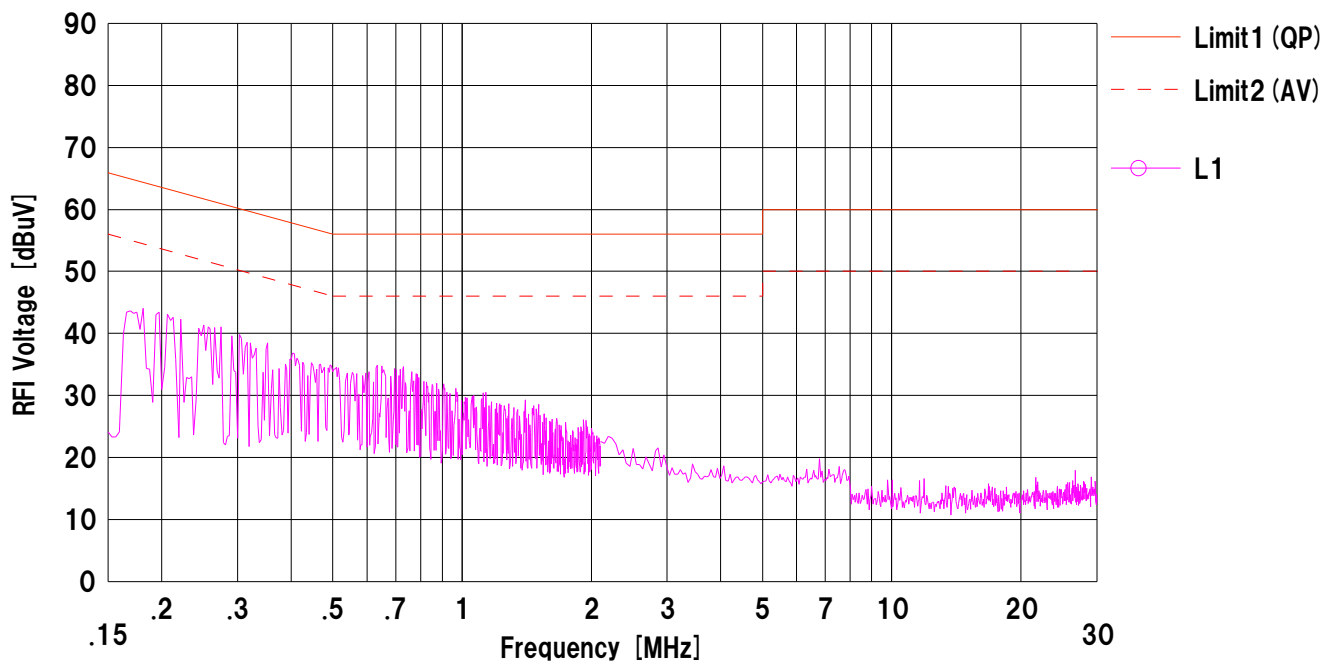
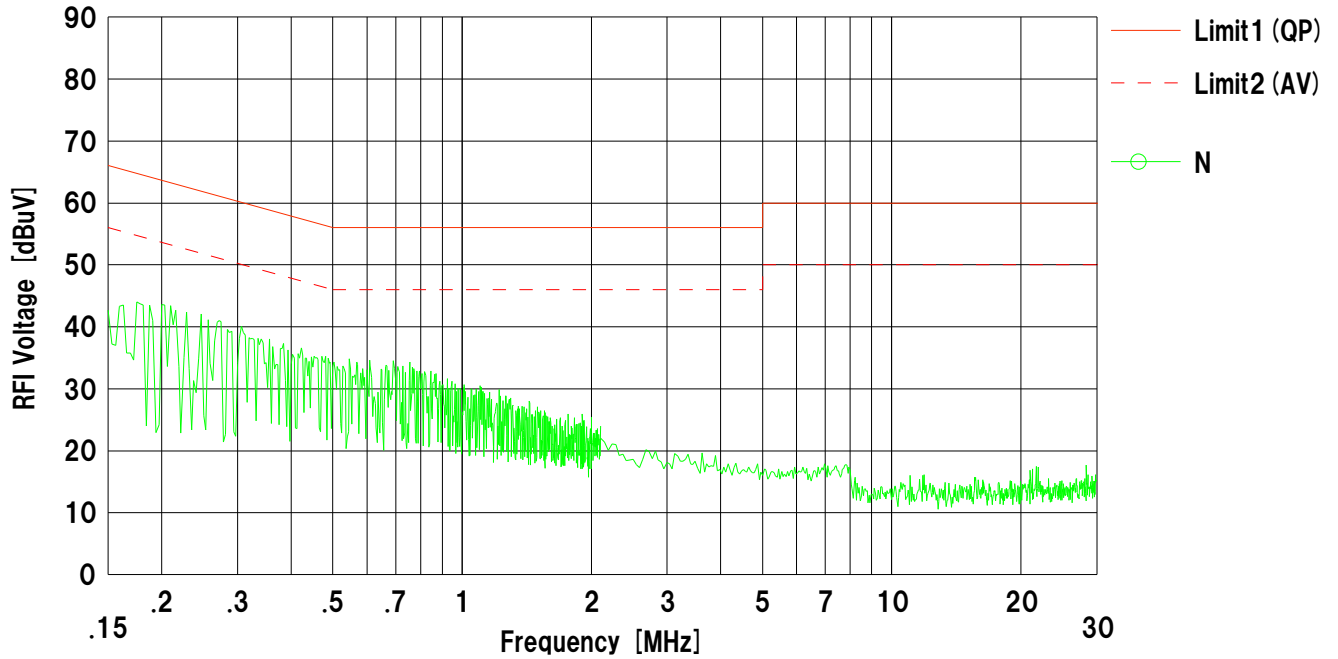
Company : CANON INC.  
Kind of EUT : Wireless Module  
Model No. : CH9-1216  
Serial No. : T029B

Mode : Tx 2440MHz  
Report No. : 31EE0027-H0-01-A  
Power : DC3.2V  
Temp./Humi. : 27deg.C. / 68%RH

Remarks : -

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Tatsuya Arai



Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+ATT) [dB]  
LISN:SLS-01

# DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No. Shielded Room  
Date : 2011/07/15

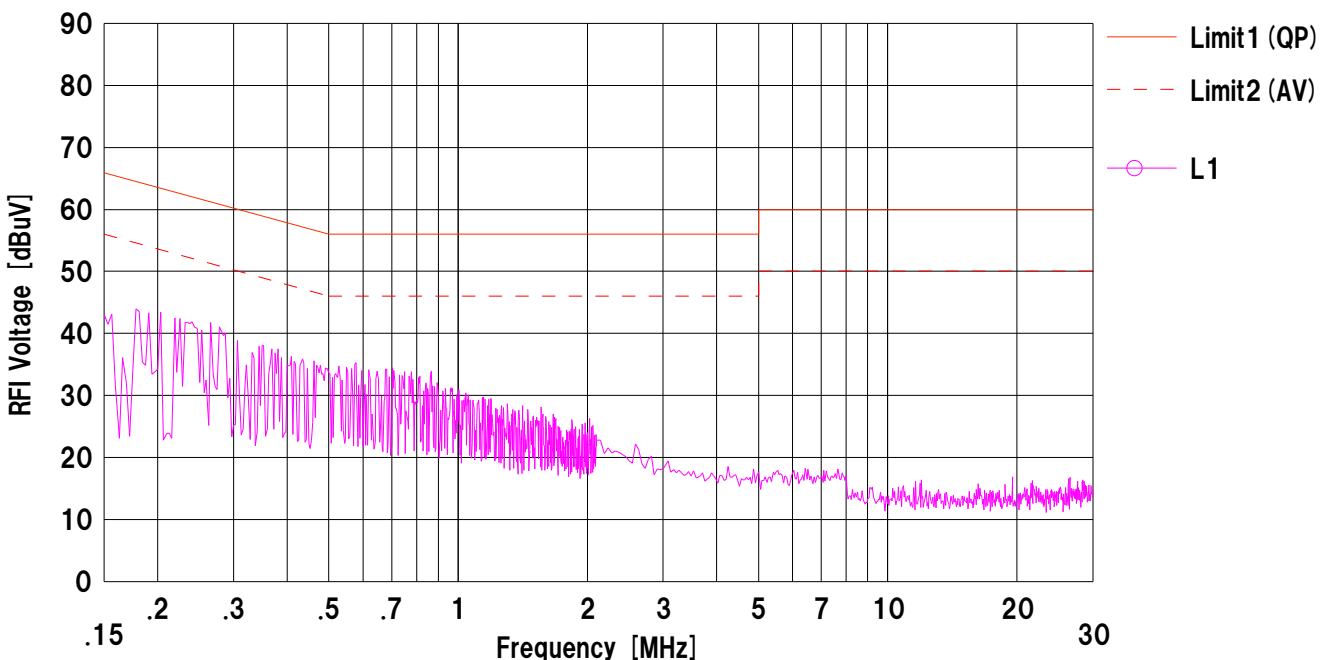
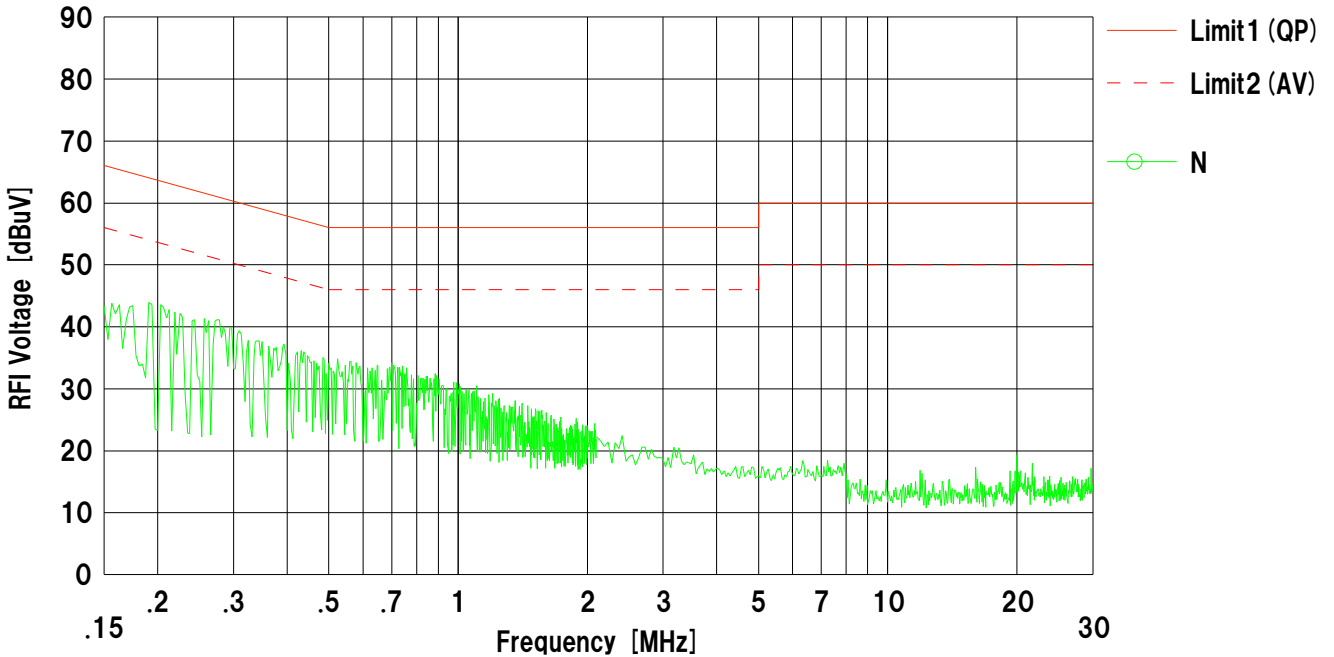
Company : CANON INC.  
Kind of EUT : Wireless Module  
Model No. : CH9-1216  
Serial No. : T029B

Mode : Tx 2475MHz  
Report No. : 31EE0027-H0-01-A  
Power : DC3.2V  
Temp./Humi. : 27deg.C. / 68%RH

Remarks : -

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Tatsuya Arai



Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+ATT) [dB]  
LISN:SLS-01

# DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No. Shielded Room  
Date : 2011/07/15

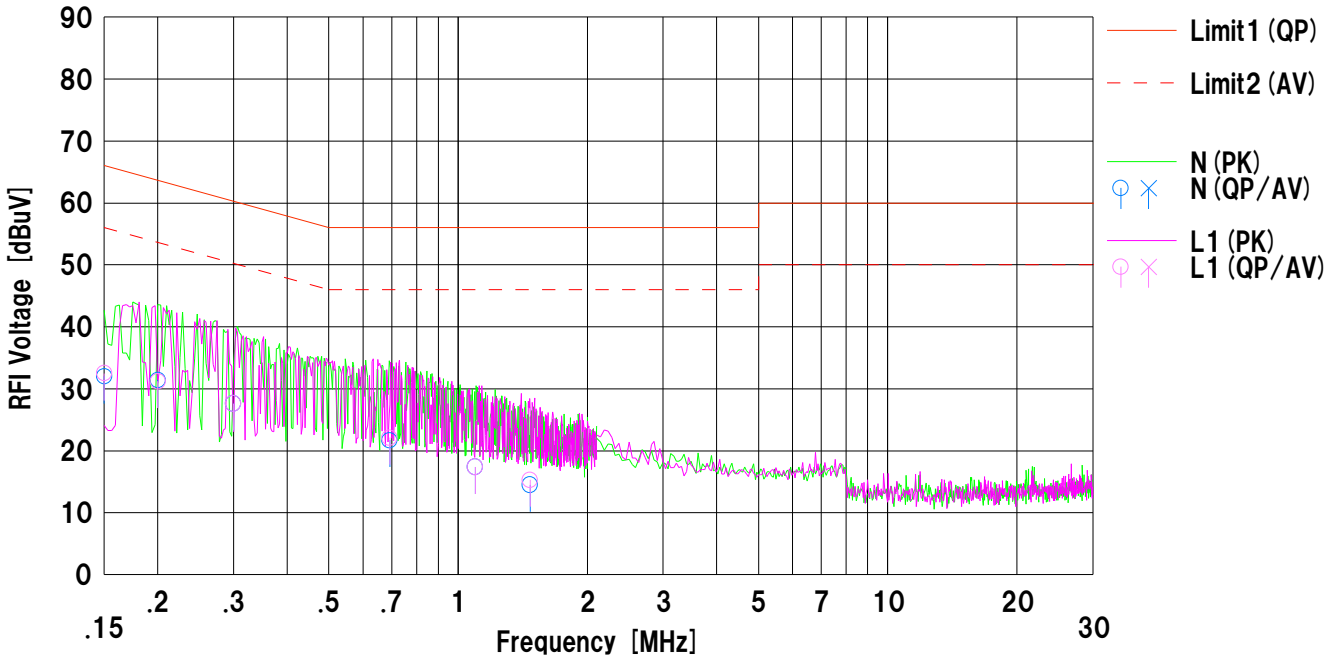
Company : CANON INC.  
Kind of EUT : Wireless Module  
Model No. : CH9-1216  
Serial No. : T029B

Mode : Tx 2440MHz  
Report No. : 31EE0027-H0-01-A  
Power : DC3.2V  
Temp./Humi. : 27deg.C. / 68%RH

Remarks : -

Limit1 : FCC 15C (15.207) QP  
Limit2 : FCC 15C (15.207) AV

Engineer : Tatsuya Arai



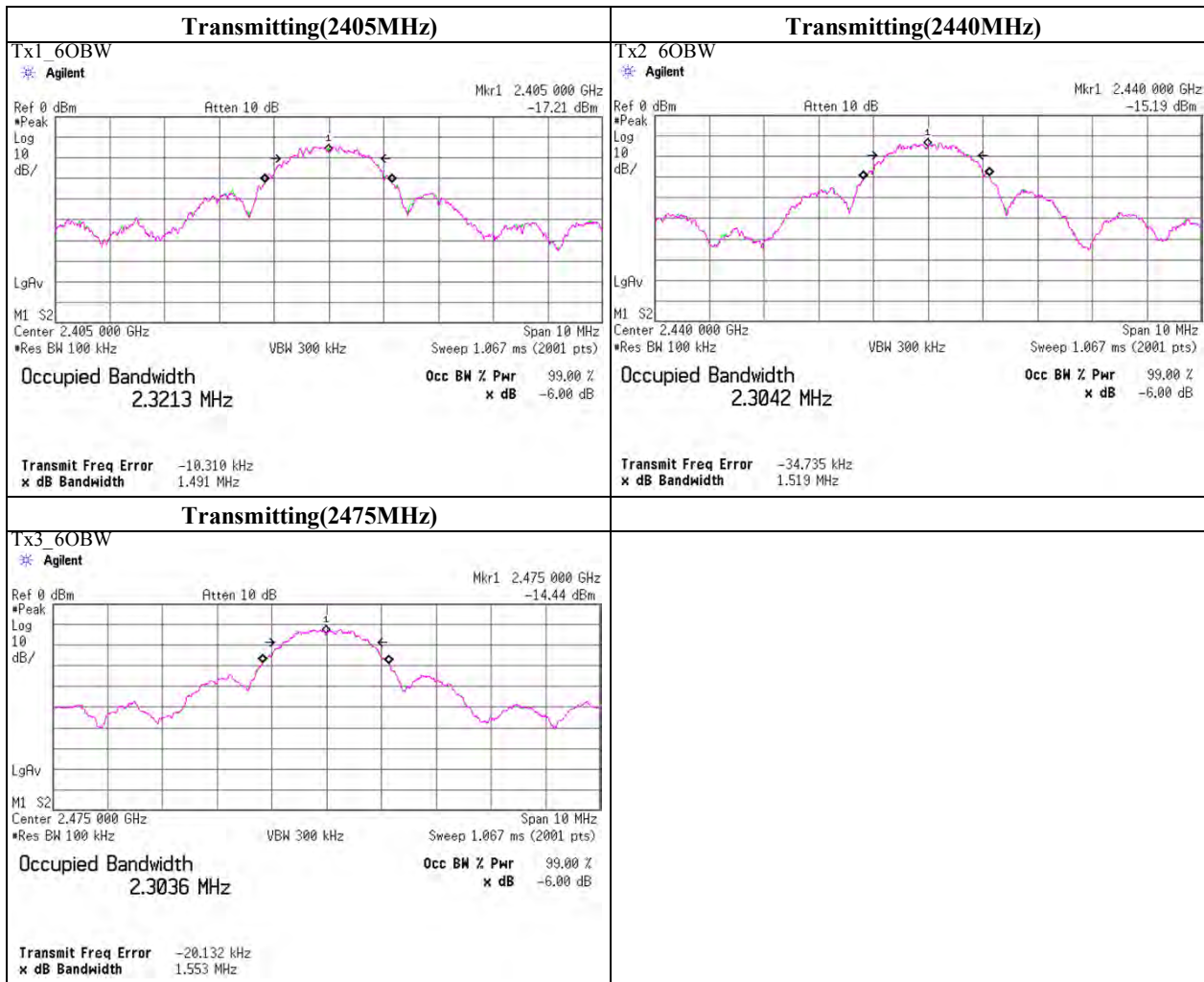
No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.15000	19.3	---	12.7	32.0	---	66.0	56.0	34.0	---	N	
2	0.20000	18.7	---	12.7	31.4	---	63.6	53.6	32.2	---	N	
3	0.30000	14.9	---	12.7	27.6	---	60.2	50.2	32.6	---	N	
4	0.69350	9.0	---	12.7	21.7	---	56.0	46.0	34.3	---	N	
5	1.09680	4.6	---	12.8	17.4	---	56.0	46.0	38.6	---	N	
6	1.46955	1.7	---	12.8	14.5	---	56.0	46.0	41.5	---	N	
7	0.15000	19.8	---	12.7	32.5	---	66.0	56.0	33.5	---	L1	
8	0.20000	18.5	---	12.7	31.2	---	63.6	53.6	32.4	---	L1	
9	0.30000	14.9	---	12.7	27.6	---	60.2	50.2	32.6	---	L1	
10	0.69350	9.4	---	12.7	22.1	---	56.0	46.0	33.9	---	L1	
11	1.09680	4.6	---	12.8	17.4	---	56.0	46.0	38.6	---	L1	
12	1.46955	2.5	---	12.8	15.3	---	56.0	46.0	40.7	---	L1	

Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+ATT) [dB]  
LISN:SLS-01

### -6dB Bandwidth

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	July 19, 2011	
Temperature / Humidity	26deg.C , 65%RH	
Engineer	Kenichi Adachi	
Mode	Tx, PN9	

Freq. [MHz]	-6dB Bandwidth [MHz]	Limit [MHz]
2405.0000	1.491	> 0.500
2440.0000	1.519	> 0.500
2475.0000	1.553	> 0.500



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## Peak Output Power (Conducted)

Test place                   UL Japan, Inc. Shonan EMC Lab.       No.5 Shielded Room  
 Date                         July 19, 2011  
 Temperature / Humidity    26deg.C       , 65%RH  
 Engineer                  Kenichi Adachi  
 Mode                        Tx, PN9

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2405.0	-9.80	1.46	9.57	1.23	1.33	30.00	1000	28.77
Mid	2440.0	-9.34	1.43	9.57	1.66	1.47	30.00	1000	28.34
High	2475.0	-8.49	1.43	9.57	2.51	1.78	30.00	1000	27.49

Sample Calculation:

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

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## Radiated Emission

Test place                    UL Japan, Inc. Shonan EMC Lab.    No.3 Semi Anechoic Chamber  
 Date                            July 14, 2011                    July 15, 2011  
 Temperature / Humidity    26deg.C , 59%RH    24deg.C , 66%RH  
 Engineer                      Tatsuya Arai                      Tatsuya Arai  
 Mode                            Tx, 2405                          MHz  
    Tx, PN9

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.	144.050	QP	39.3	13.9	7.6	32.1	28.7	43.5	14.8	200	106	
Hori.	320.001	QP	44.0	14.4	8.8	31.9	35.3	46.0	10.7	100	222	
Hori.	576.010	QP	41.3	18.0	9.7	31.9	37.1	46.0	8.9	158	303	
Hori.	608.006	QP	40.4	18.4	9.8	31.9	36.7	46.0	9.3	151	290	
Hori.	2063.920	PK	47.6	27.2	13.5	40.8	47.5	73.9	26.4	100	167	
Hori.	2373.033	PK	54.1	27.5	13.8	40.6	54.8	73.9	19.1	100	133	
Hori.	2388.467	PK	52.8	27.5	13.8	40.6	53.5	73.9	20.4	100	133	
Hori.	2390.000	PK	48.1	27.5	13.8	40.6	48.8	73.9	25.1	100	133	
Hori.	4810.000	PK	52.4	31.5	6.0	41.5	48.4	73.9	25.5	100	89	
Hori.	7215.000	PK	47.7	36.4	7.4	40.7	50.8	73.9	23.1	100	0	
Hori.	9620.000	PK	46.0	37.9	8.7	40.5	52.1	73.9	21.8	100	0	
Hori.	12025.000	PK	45.7	39.4	10.2	39.5	55.8	73.9	18.1	100	0	
Hori.	2063.920	AV	37.6	27.2	13.5	40.8	37.5	53.9	16.4	100	167	
Hori.	2373.033	AV	47.4	27.5	13.8	40.6	48.1	53.9	5.8	100	133	
Hori.	2388.467	AV	42.8	27.5	13.8	40.6	43.5	53.9	10.4	100	133	
Hori.	2390.000	AV	40.7	27.5	13.8	40.6	41.4	53.9	12.5	100	133	
Hori.	4810.000	AV	46.8	31.5	6.0	41.5	42.8	53.9	11.1	100	89	
Hori.	7215.000	AV	36.5	36.4	7.4	40.7	39.6	53.9	14.3	100	0	
Hori.	9620.000	AV	35.5	37.9	8.7	40.5	41.6	53.9	12.3	100	0	
Hori.	12025.000	AV	35.7	39.4	10.2	39.5	45.8	53.9	8.1	100	0	
Vert.	320.001	QP	40.1	14.4	8.8	31.9	31.4	46.0	14.6	100	95	
Vert.	2063.920	PK	47.4	27.2	13.5	40.8	47.3	73.9	26.6	100	0	
Vert.	2372.867	PK	52.4	27.5	13.8	40.6	53.1	73.9	20.8	103	253	
Vert.	2388.450	PK	51.9	27.5	13.8	40.6	52.6	73.9	21.3	103	253	
Vert.	2390.000	PK	47.8	27.5	13.8	40.6	48.5	73.9	25.4	103	253	
Vert.	4810.000	PK	49.8	31.5	6.0	41.5	45.8	73.9	28.1	103	45	
Vert.	7215.000	PK	48.7	36.4	7.4	40.7	51.8	73.9	22.1	100	0	
Vert.	9620.000	PK	47.4	37.9	8.7	40.5	53.5	73.9	20.4	100	0	
Vert.	12025.000	PK	47.4	39.4	10.2	39.5	57.5	73.9	16.4	100	0	
Vert.	2063.920	AV	35.6	27.2	13.5	40.8	35.5	53.9	18.4	100	0	
Vert.	2372.867	AV	45.2	27.5	13.8	40.6	45.9	53.9	8.0	103	253	
Vert.	2388.450	AV	42.2	27.5	13.8	40.6	42.9	53.9	11.0	103	253	
Vert.	2390.000	AV	39.9	27.5	13.8	40.6	40.6	53.9	13.3	103	253	
Vert.	4810.000	AV	42.5	31.5	6.0	41.5	38.5	53.9	15.4	103	45	
Vert.	7215.000	AV	37.1	36.4	7.4	40.7	40.2	53.9	13.7	100	0	
Vert.	9620.000	AV	35.9	37.9	8.7	40.5	42.0	53.9	11.9	100	0	
Vert.	12025.000	AV	35.8	39.4	10.2	39.5	45.9	53.9	8.0	100	0	

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).

Distance factor:            13GHz-40GHz            20log(3.0m/1.0m)= 9.5dB

**20dBc Data Sheet (RBW 100kHz, VBW 300kHz)**

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2405.000	PK	92.6	27.5	13.8	40.6	93.3	-	-	Carrier
Hori.	2400.000	PK	52.8	27.5	13.8	40.6	53.5	73.3	19.8	
Vert.	2405.000	PK	93.5	27.5	13.8	40.6	94.2	-	-	Carrier
Vert.	2400.000	PK	60.9	27.5	13.8	40.6	61.6	74.2	12.6	

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

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**Radiated Emission**

Test place                   UL Japan, Inc. Shonan EMC Lab.    No.3 Semi Anechoic Chamber  
 Date                        July 14, 2011                    July 15, 2011  
 Temperature / Humidity   26deg.C , 59%RH   24deg.C , 66%RH  
 Engineer                  Tatsuya Arai                    Tatsuya Arai  
 Mode                        Tx, 2440                         MHz  
                               Tx, PN9

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.	144.053	QP	39.5	13.9	7.6	32.1	28.9	43.5	14.6	234	102	
Hori.	320.009	QP	44.4	14.4	8.8	31.9	35.7	46.0	10.3	100	221	
Hori.	576.005	QP	41.7	18.0	9.7	31.9	37.5	46.0	8.5	166	301	
Hori.	608.011	QP	40.5	18.4	9.8	31.9	36.8	46.0	9.2	152	292	
Hori.	2000.000	PK	46.4	27.1	13.5	40.8	46.2	73.9	27.7	105	168	
Hori.	4880.000	PK	53.0	31.7	6.0	41.5	49.2	73.9	24.7	100	266	
Hori.	7320.000	PK	45.8	36.7	7.4	40.7	49.2	73.9	24.7	100	0	
Hori.	9760.000	PK	44.9	38.1	8.7	40.5	51.2	73.9	22.7	100	0	
Hori.	12200.000	PK	46.0	39.2	10.3	39.5	56.0	73.9	17.9	100	0	
Hori.	2000.000	AV	37.6	27.1	13.5	40.8	37.4	53.9	16.5	105	168	
Hori.	4880.000	AV	48.1	31.7	6.0	41.5	44.3	53.9	9.6	100	266	
Hori.	7320.000	AV	35.2	36.7	7.4	40.7	38.6	53.9	15.3	100	0	
Hori.	9760.000	AV	34.6	38.1	8.7	40.5	40.9	53.9	13.0	100	0	
Hori.	12200.000	AV	33.8	39.2	10.3	39.5	43.8	53.9	10.1	100	0	
Vert.	320.009	QP	40.4	14.4	8.8	31.9	31.7	46.0	14.3	100	99	
Vert.	2000.000	PK	46.0	27.1	13.5	40.8	45.8	73.9	28.1	100	283	
Vert.	4880.000	PK	50.6	31.7	6.0	41.5	46.8	73.9	27.1	100	274	
Vert.	7320.000	PK	45.5	36.7	7.4	40.7	48.9	73.9	25.0	100	0	
Vert.	9760.000	PK	44.5	38.1	8.7	40.5	50.8	73.9	23.1	100	0	
Vert.	12200.000	PK	44.5	39.2	10.3	39.5	54.5	73.9	19.4	100	0	
Vert.	2000.000	AV	36.1	27.1	13.5	40.8	35.9	53.9	18.0	100	283	
Vert.	4880.000	AV	43.1	31.7	6.0	41.5	39.3	53.9	14.6	100	274	
Vert.	7320.000	AV	35.2	36.7	7.4	40.7	38.6	53.9	15.3	100	0	
Vert.	9760.000	AV	34.4	38.1	8.7	40.5	40.7	53.9	13.2	100	0	
Vert.	12200.000	AV	34.0	39.2	10.3	39.5	44.0	53.9	9.9	100	0	

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).

Distance factor:           13GHz-40GHz           20log(3.0m/1.0m)= 9.5dB



## Radiated Emission

Test place                   UL Japan, Inc. Shonan EMC Lab.    No.3 Semi Anechoic Chamber  
 Date                         July 14, 2011                   July 15, 2011  
 Temperature / Humidity   26deg.C , 59%RH   24deg.C , 66%RH  
 Engineer                  Tatsuya Arai                 Tatsuya Arai  
 Mode                       Tx, 2475                     MHz  
                               Tx, PN9

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.	144.023	QP	41.7	13.9	7.6	32.1	31.1	43.5	12.4	230	106	
Hori.	320.000	QP	44.0	14.4	8.8	31.9	35.3	46.0	10.7	100	219	
Hori.	576.006	QP	38.2	18.0	9.7	31.9	34.0	46.0	12.0	159	295	
Hori.	608.002	QP	39.3	18.4	9.8	31.9	35.6	46.0	10.4	153	286	
Hori.	2000.000	PK	47.8	27.1	13.5	40.8	47.6	73.9	26.3	102	173	
Hori.	2483.500	PK	48.5	27.6	13.7	40.5	49.3	73.9	24.6	121	136	
Hori.	2483.903	PK	51.2	27.6	13.7	40.5	52.0	73.9	21.9	121	136	
Hori.	2490.385	PK	50.2	27.6	13.7	40.5	51.0	73.9	22.9	121	236	
Hori.	2506.885	PK	50.9	27.7	13.9	40.5	52.0	73.9	21.9	121	136	
Hori.	4950.000	PK	54.7	31.9	6.0	41.5	51.1	73.9	22.8	100	275	
Hori.	7425.000	PK	46.3	36.9	7.3	40.7	49.8	73.9	24.1	100	0	
Hori.	9900.000	PK	45.1	38.4	8.8	40.5	51.8	73.9	22.1	100	0	
Hori.	12375.000	PK	44.1	39.1	10.3	39.4	54.1	73.9	19.8	100	0	
Hori.	2000.000	AV	34.7	27.1	13.5	40.8	34.5	53.9	19.4	102	173	
Hori.	2483.500	AV	40.3	27.6	13.7	40.5	41.1	53.9	12.8	121	136	
Hori.	2483.903	AV	40.7	27.6	13.7	40.5	41.5	53.9	12.4	121	136	
Hori.	2490.385	AV	41.5	27.6	13.7	40.5	42.3	53.9	11.6	121	236	
Hori.	2506.885	AV	42.8	27.7	13.9	40.5	43.9	53.9	10.0	121	136	
Hori.	4950.000	AV	47.9	31.9	6.0	41.5	44.3	53.9	9.6	100	275	
Hori.	7425.000	AV	33.4	36.9	7.3	40.7	36.9	53.9	17.0	100	0	
Hori.	9900.000	AV	32.2	38.4	8.8	40.5	38.9	53.9	15.0	100	0	
Hori.	12375.000	AV	30.6	39.1	10.3	39.4	40.6	53.9	13.3	100	0	
Vert.	320.000	QP	39.8	14.4	8.8	31.9	31.1	46.0	14.9	100	104	
Vert.	2000.000	PK	46.3	27.1	13.5	40.8	46.1	73.9	27.8	100	0	
Vert.	2483.500	PK	50.5	27.6	13.7	40.5	51.3	73.9	22.6	100	247	
Vert.	2483.893	PK	52.8	27.6	13.7	40.5	53.6	73.9	20.3	100	247	
Vert.	2490.385	PK	51.9	27.6	13.7	40.5	52.7	73.9	21.2	100	247	
Vert.	2506.985	PK	51.2	27.7	13.9	40.5	52.3	73.9	21.6	100	247	
Vert.	4950.000	PK	52.1	31.9	6.0	41.5	48.5	73.9	25.4	102	343	
Vert.	7425.000	PK	46.3	36.9	7.3	40.7	49.8	73.9	24.1	100	0	
Vert.	9900.000	PK	45.0	38.4	8.8	40.5	51.7	73.9	22.2	100	0	
Vert.	12375.000	PK	44.4	39.1	10.3	39.4	54.4	73.9	19.5	100	0	
Vert.	2000.000	AV	33.3	27.1	13.5	40.8	33.1	53.9	20.8	100	0	
Vert.	2483.500	AV	42.2	27.6	13.7	40.5	43.0	53.9	10.9	100	247	
Vert.	2483.893	AV	42.7	27.6	13.7	40.5	43.5	53.9	10.4	100	247	
Vert.	2490.385	AV	42.4	27.6	13.7	40.5	43.2	53.9	10.7	100	247	
Vert.	2506.985	AV	43.6	27.7	13.9	40.5	44.7	53.9	9.2	100	247	
Vert.	4950.000	AV	45.6	31.9	6.0	41.5	42.0	53.9	11.9	102	343	
Vert.	7425.000	AV	33.4	36.9	7.3	40.7	36.9	53.9	17.0	100	0	
Vert.	9900.000	AV	32.2	38.4	8.8	40.5	38.9	53.9	15.0	100	0	
Vert.	12375.000	AV	30.6	39.1	10.3	39.4	40.6	53.9	13.3	100	0	

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

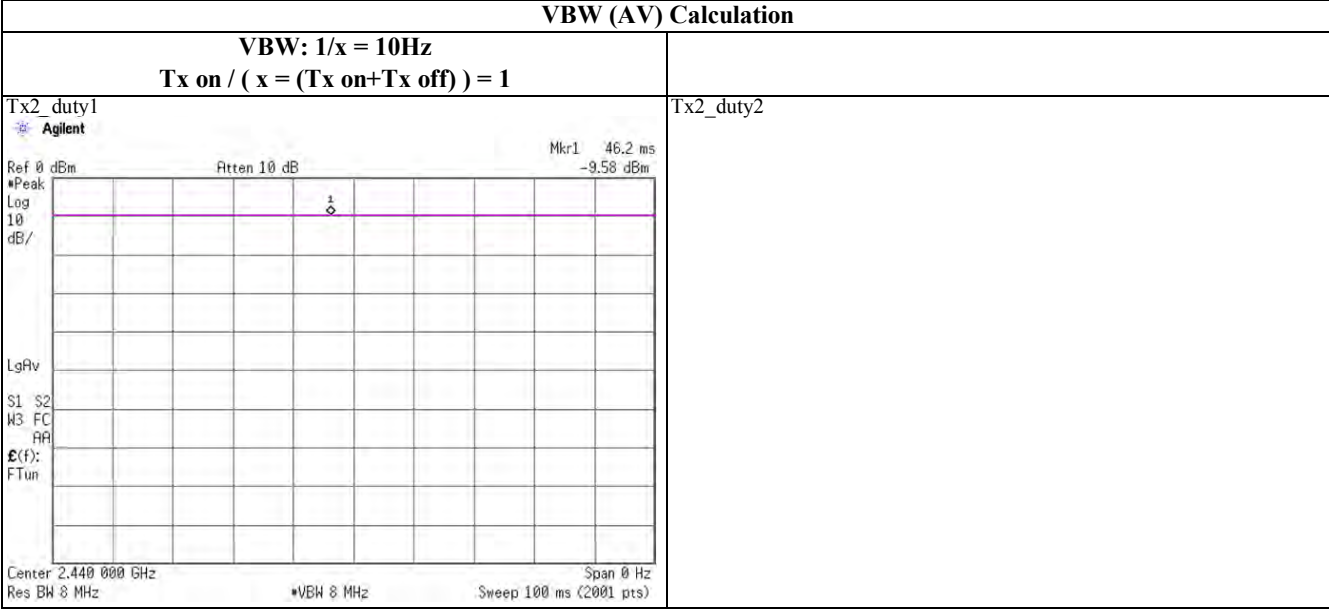
\*Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

Distance factor:           13GHz-40GHz           20log(3.0m/1.0m)= 9.5dB

**Spurious emission (Radiated)**

Tx, PN9

**VBW (AV) Calculation**

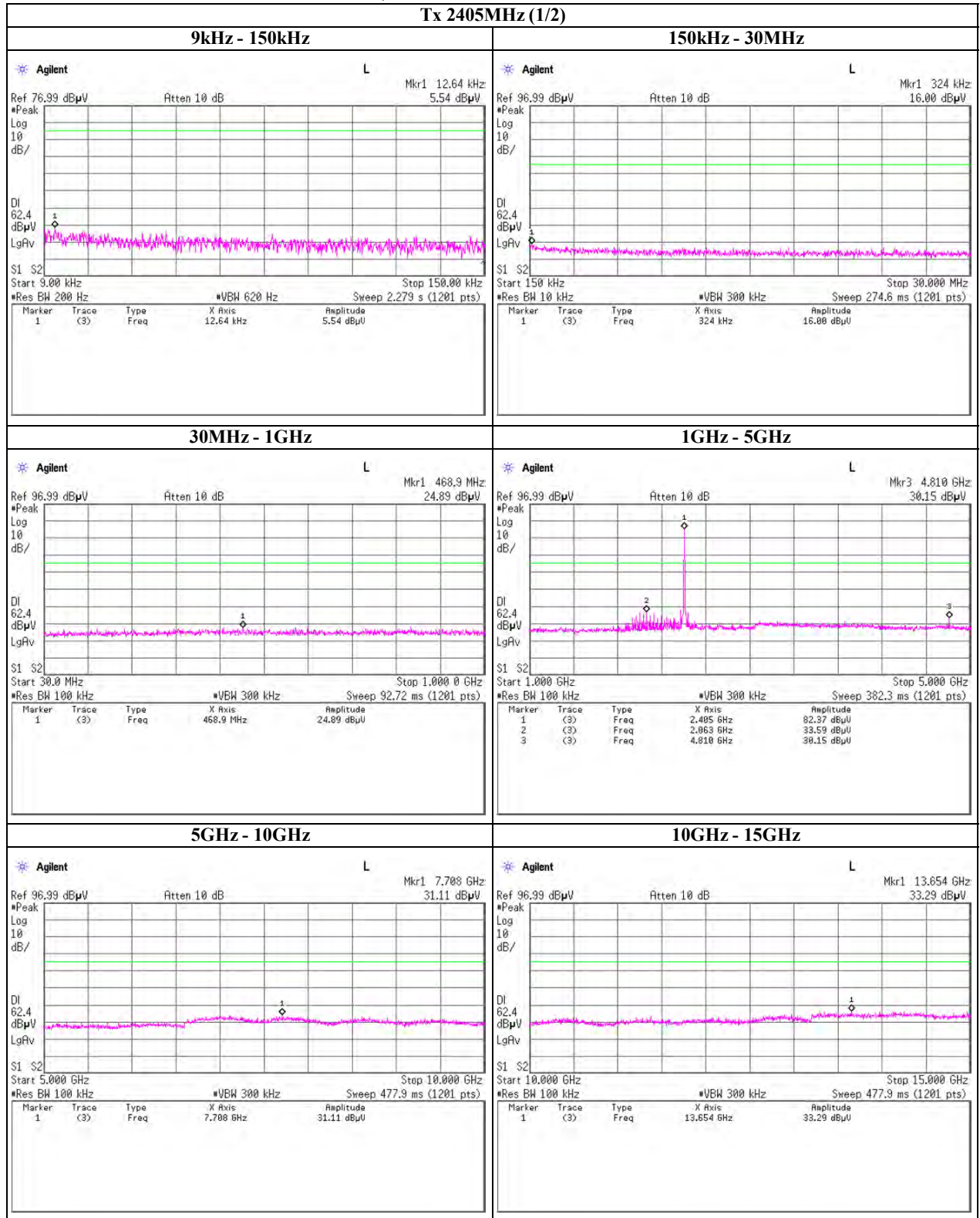


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### Spurious emission (Conducted)

Tx, PN9



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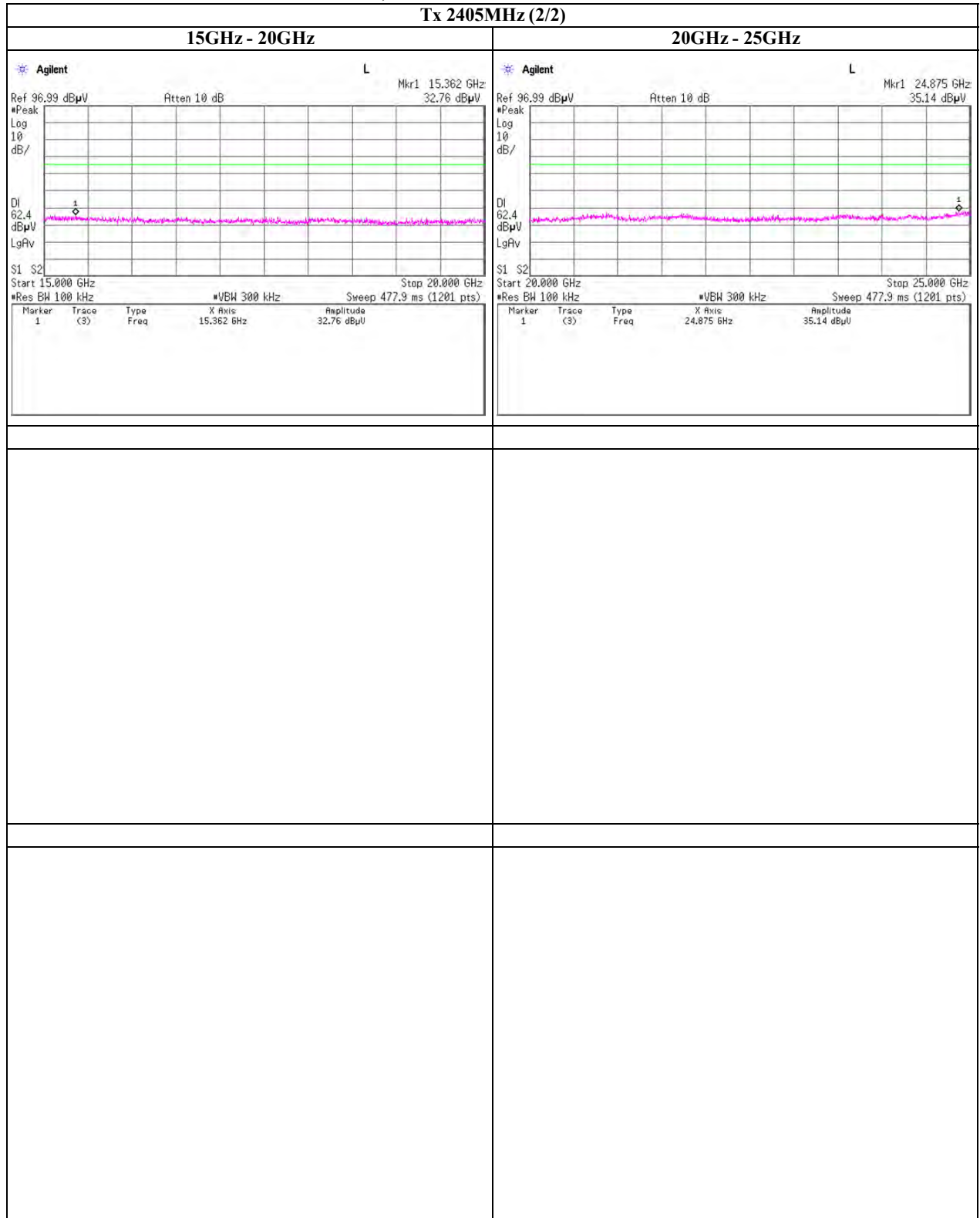
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

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## Spurious emission (Conducted)

Tx, PN9



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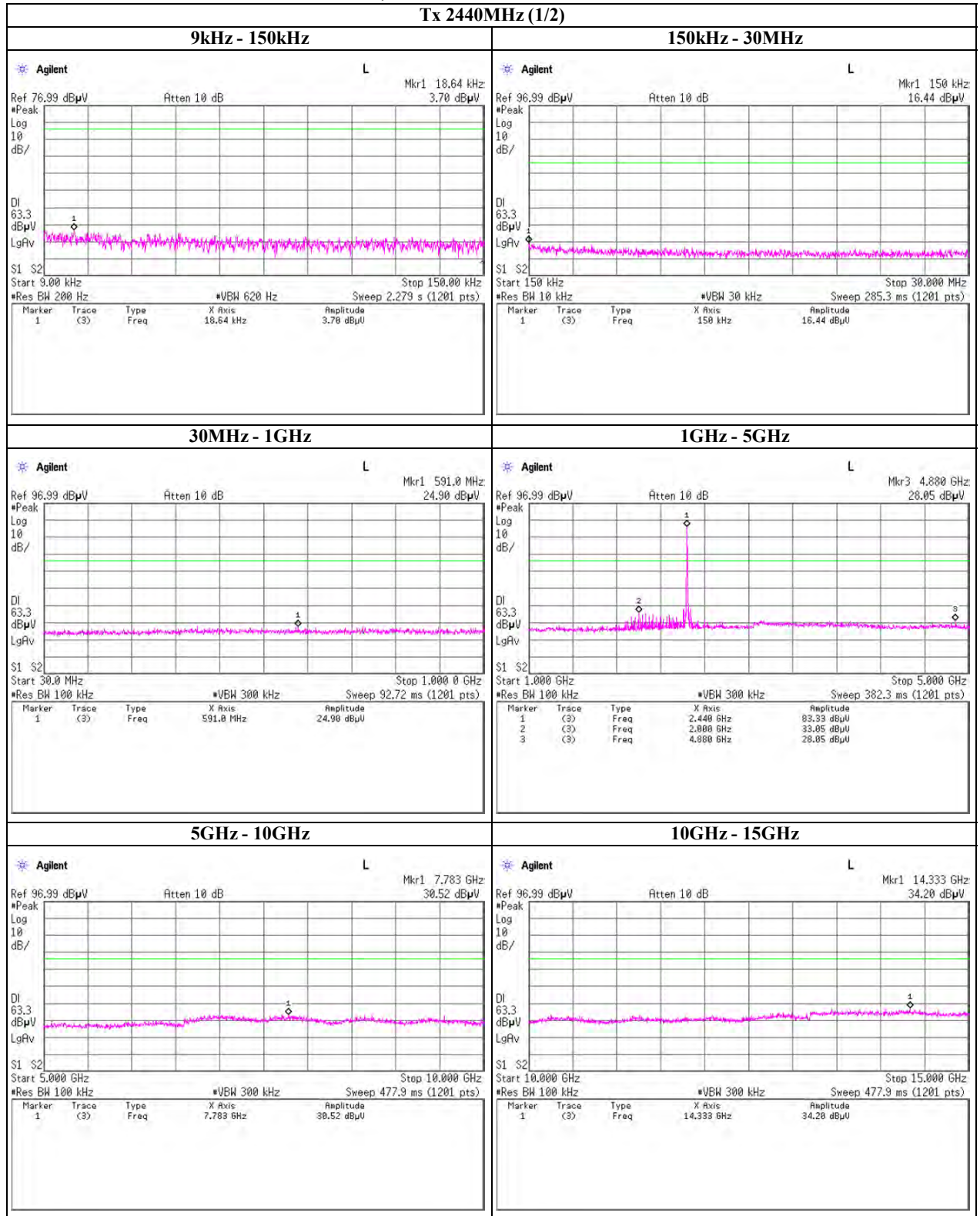
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

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### Spurious emission (Conducted)

Tx, PN9



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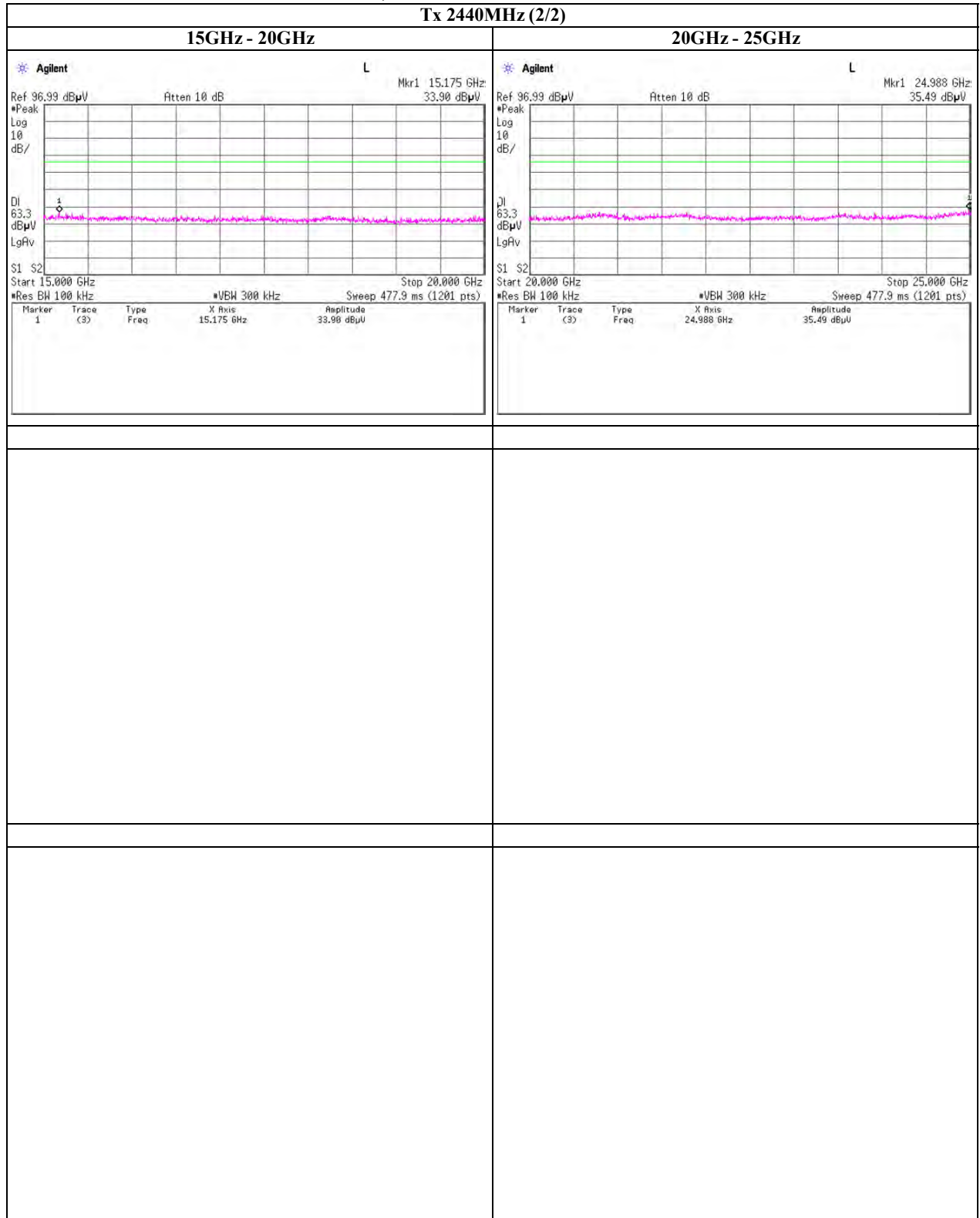
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

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### Spurious emission (Conducted)

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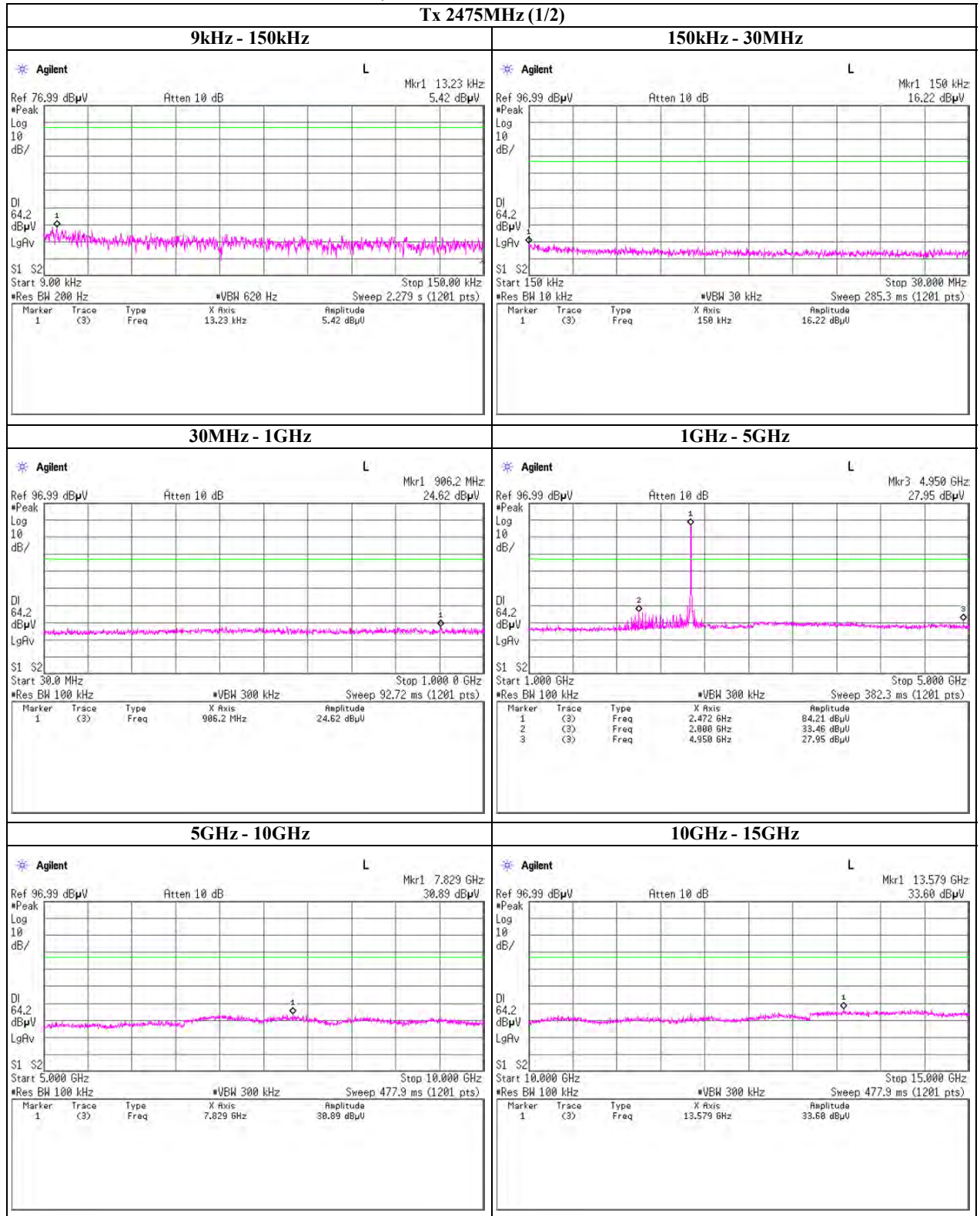
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

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### Spurious emission (Conducted)

Tx, PN9



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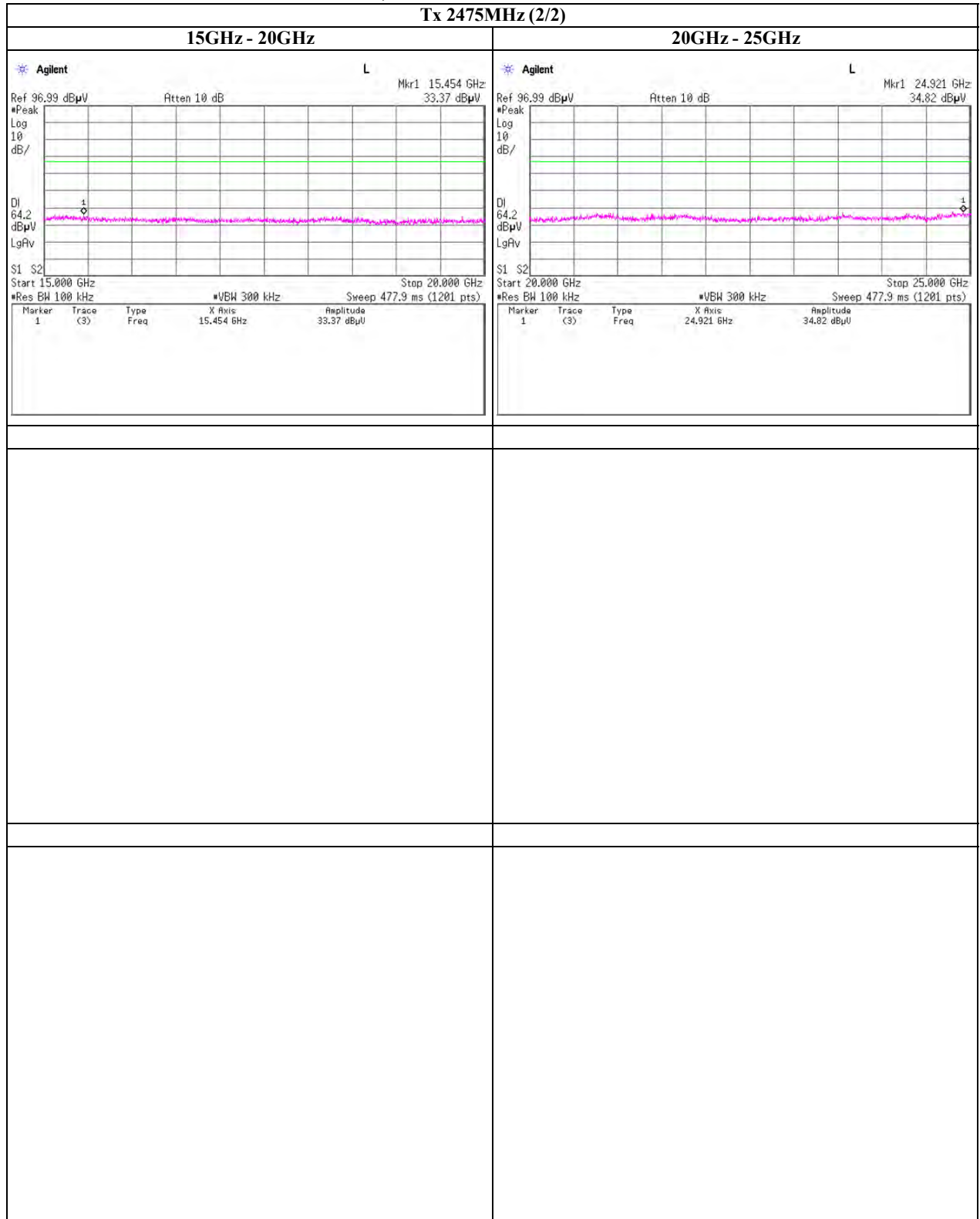
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

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### Spurious emission (Conducted)

Tx, PN9



**UL Japan, Inc.**

**Shonan EMC Lab.**

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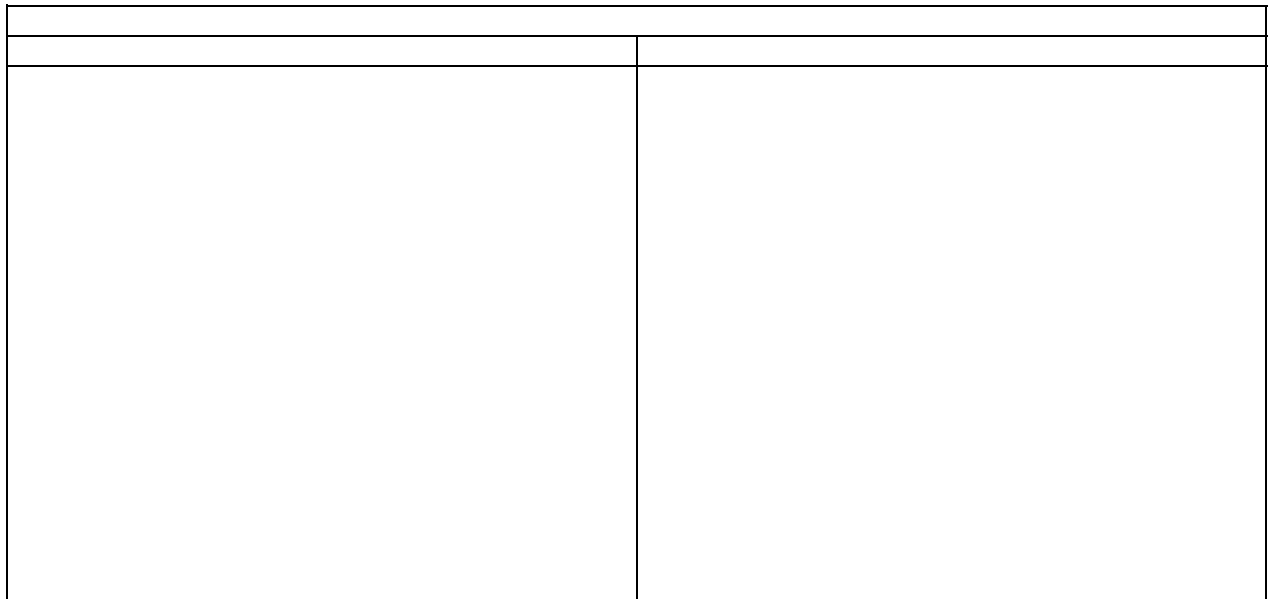
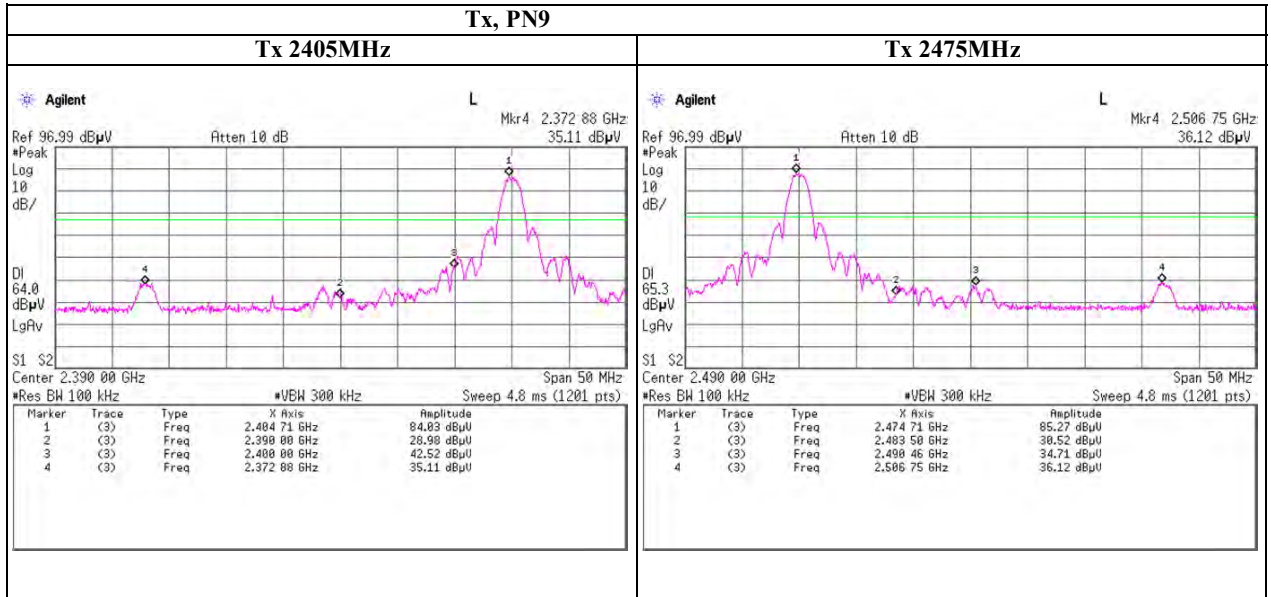
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## Spurious emission (Conducted)

### Band Edge compliance



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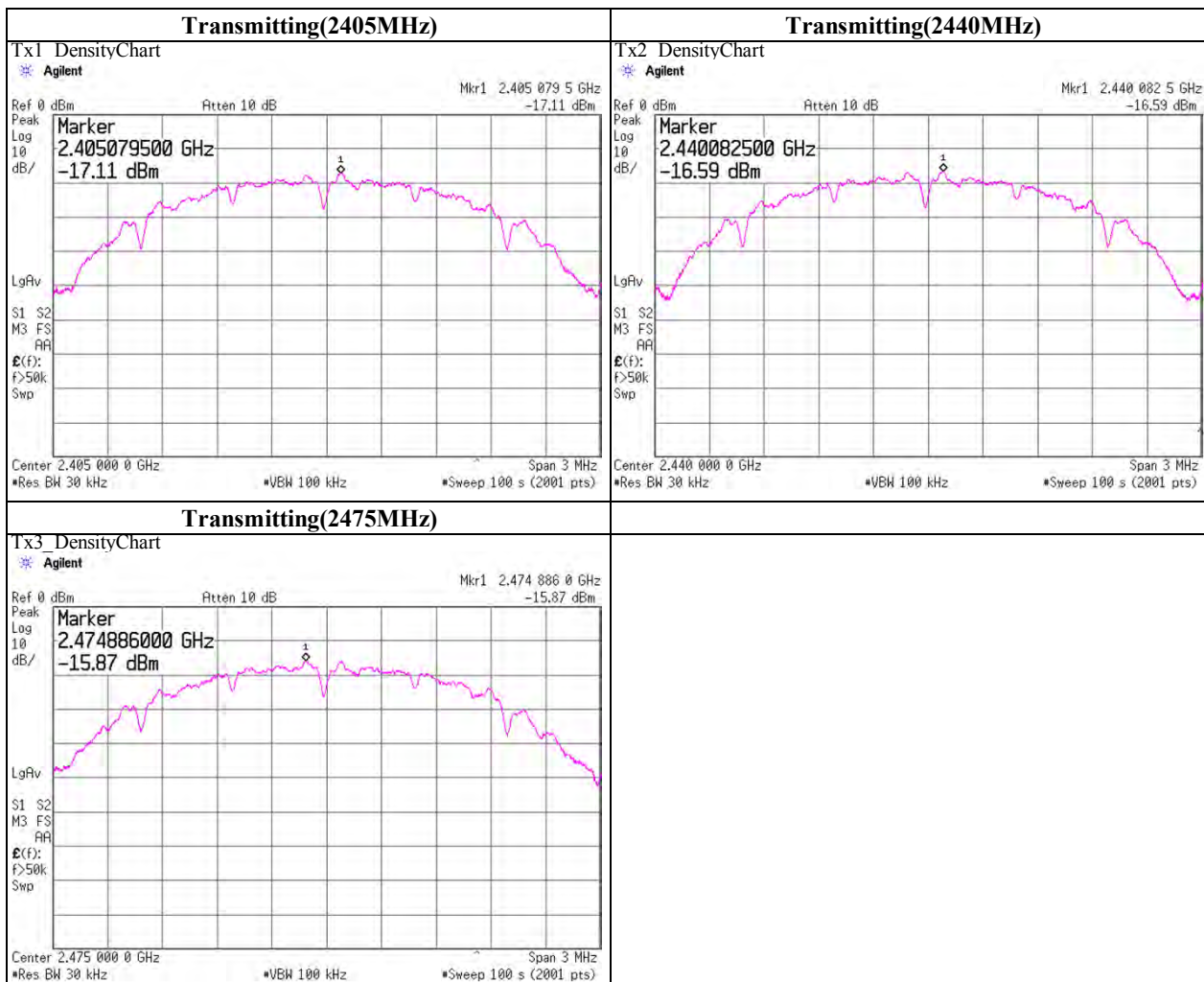
### Power Density

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	July 19, 2011	
Temperature / Humidity	26deg.C , 65%RH	
Engineer	Kenichi Adachi	
Mode	Tx, PN9	

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2405.0000	2405.0795	-17.11	1.46	9.57	-6.08	8.00	14.08
2440.0000	2440.0825	-16.59	1.43	9.57	-5.59	8.00	13.59
2475.0000	2474.8860	-15.87	1.43	9.57	-4.87	8.00	12.87

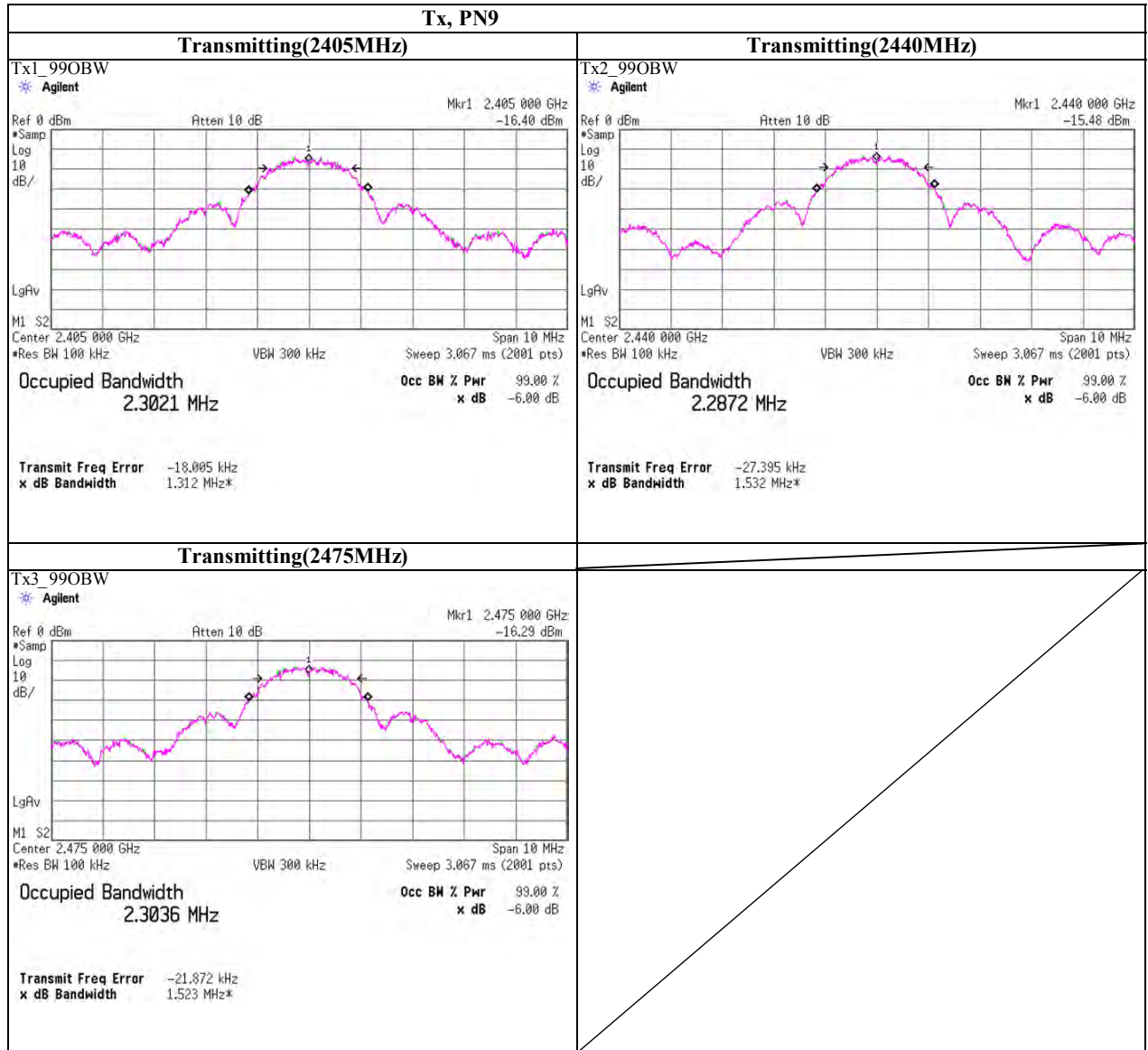
Sample Calculation:

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



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**99% Occupied Bandwidth**



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**APPENDIX 3**  
**Test Instruments**

**EMI test equipment (1/2)**

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
SAF-04	Pre Amplifier	TOYO Corporation	TPA0118-36	1440489	RE	2011/03/23 * 12
SCC-G03	Coaxial Cable	Suhner	SUCOFLEX 104A	46499/4 A	RE	2011/04/28 * 12
SCC-G23	Coaxial Cable	Suhner	SUCOFLEX 104	297342/4	RE	2011/05/27 * 12
SHA-03	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-739	RE	2010/08/17 * 12
SOS-05	Humidity Indicator	A&D	AD-5681	4062518	RE	2011/02/23 * 12
SSA-02	Spectrum Analyzer	Agilent	E4448 A	MY48250106	RE/AT	2011/03/07 * 12
SJM-10	Measure	PROMART	SEN1935	-	RE	-
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV(RE,CE, RFLMF)	-	RE/CE	-
SFL-02	Highpass Filter	MICRO-TRONICS	HPM50111	051	RE	2010/12/15 * 12
SAT10-04	Attenuator(above 1GHz)	Agilent	8493C-010	74863	AT	2010/12/15 * 12
SCC-G12	Coaxial Cable	Suhner	SUCOFLEX 102	30790/2	AT	2011/03/23 * 12
SAT20-02	Attenuator	Agilent	8493C-020	74890	AT	2011/03/23 * 12
SCC-A12/A13/SRSE-01	Coaxial Cable&RF Selector	Suhner/Suhner/TOYO	RG223U/141PE/N S4906	-/0901-269 (RF Selector)	CE	2011/04/28 * 12
SLS-01	LISN	Rohde & Schwarz	ENV216	100511	CE	2011/02/22 * 12
SAT3-03	Attenuator	JFW	50HF-003N	-	CE	2011/02/17 * 12
SOS-02	Humidity Indicator	A&D	AD-5681	4063343	CE	2011/03/02 * 12
STR-01	Test Receiver	Rohde & Schwarz	ESU40	100093	CE	2010/10/29 * 12
SJM-12	Measure	PROMART	SEN1935	-	CE	-
SFL-03	Highpass Filter	MICRO-TRONICS	HPM50112	028	RE	2010/12/15 * 12
SHA-05	Horn Antenna	ETS LINDGREN	3160-09	LM4210	RE	2011/03/15 * 12
SAF-09	Pre Amplifier	TOYO Corporation	HAP18-26W	00000018	RE	2011/03/16 * 12
SCC-G18	Coaxial Cable	Suhner	SUCOFLEX 104A	46292/4 A	RE	2011/03/16 * 12
SAF-03	Pre Amplifier	SONOMA	310N	290213	RE	2011/02/17 * 12
SAT6-03	Attenuator	JFW	50HF-006N	-	RE	2011/02/17 * 12
SBA-03	Biconical Antenna	Schwarzbeck	BBA9106	91032666	RE	2010/10/15 * 12
SCC-C1/C2/C3/C4/C5/C10/SRSE-03	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-271 (RF Selector)	RE	2011/04/28 * 12
SLA-03	Logperiodic Antenna	Schwarzbeck	UHALP9108A	UHALP 9108-A 0901	RE	2010/10/15 * 12
STR-03	Test Receiver	Rohde & Schwarz	ESI40	100054/040	RE	2010/07/21 * 12
SAEC-03(NSA)	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	RE	2010/09/13 * 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 :  
CE: Conducted emission ,  
RE: Radiated emission ,  
AT: Antenna terminal conducted test

**APPENDIX 3**  
**Test Instruments**

**EMI test equipment (2/2)**

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
SPM-06	Power Meter	Anritsu	ML2495 A	0850009	AT	2011/04/12 * 12
SPSS-03	Power sensor	Anritsu	MA2411 B	0917063	AT	2011/04/12 * 12
SAT10-09	Attenuator	Weinschel Corp.	54A-10	W5692	AT	2010/11/24 * 12
SCC-H1	Microwave cable	Hirose Electric	U.FL-2LP-066J1-A-(200)	-	AT	Pre Check
SSA-03	Spectrum Analyzer	Agilent	E4448 A	MY48250152	AT	2010/11/16 * 12
SOS-09	Humidity Indicator	A&D	AD-5681	4061484	AT	2011/03/02 * 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 :  
 CE: Conducted emission ,  
 RE: Radiated emission ,  
 AT: Antenna terminal conducted test