

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Shielded Room
Date : 2011/01/25

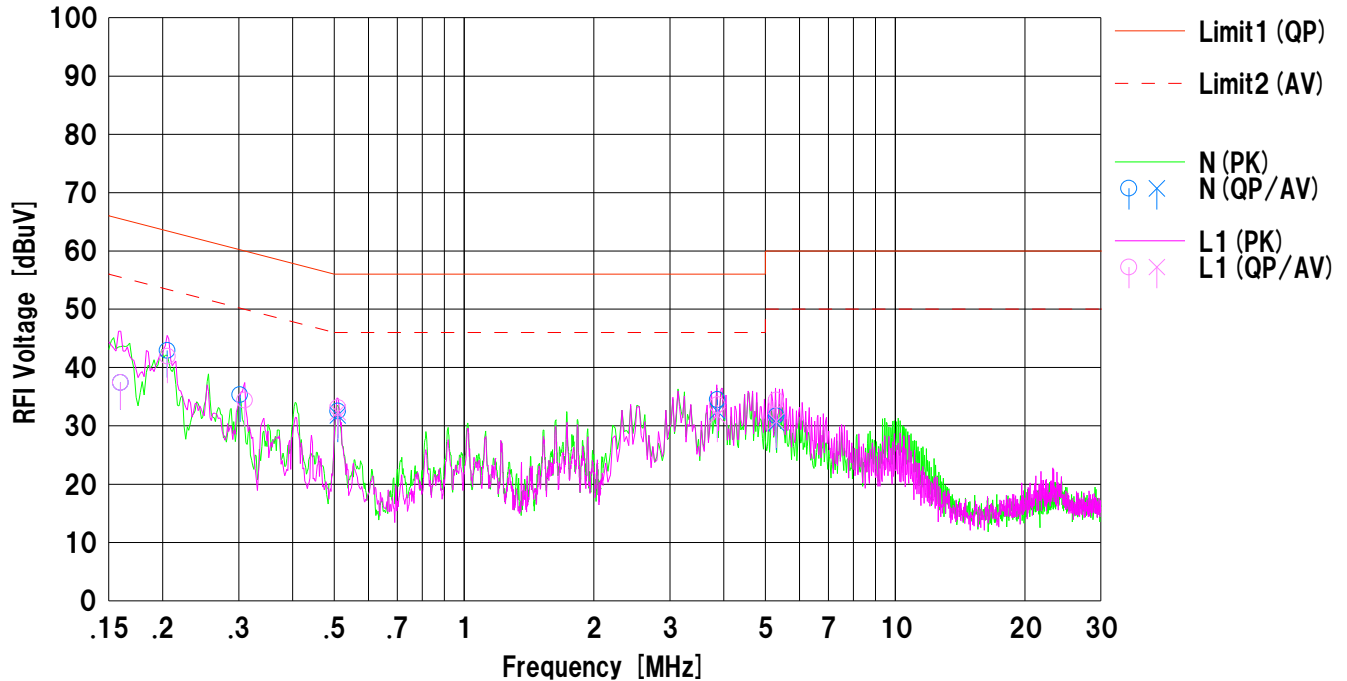
Company : Sony Corporation
Kind of EUT : Digital Surround Processor
Model No. : DP-RF6500
Serial No. : 21

Mode : Transmitting (2408MHz)
Report No. : 31DE0280-SH-01-A
Power : AC120V/60Hz SinglePhase
Temp./Humi. : 20deg.C./25%

Remarks : -

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

Engineer : Hikaru Shirasawa



No.	Freq. [MHz]	Reading		C.Fac	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.15945	24.2	---	13.2	37.4	---	65.4	55.4	28.0	---	N	
2	0.20460	29.7	---	13.2	42.9	---	63.4	53.4	20.5	---	N	
3	0.30210	22.1	---	13.2	35.3	---	60.1	50.1	24.8	---	N	
4	0.50925	19.3	18.6	13.2	32.5	31.8	56.0	46.0	23.5	14.2	N	
5	3.87055	21.0	19.0	13.5	34.5	32.5	56.0	46.0	21.5	13.5	N	
6	5.29727	18.1	16.9	13.6	31.7	30.5	60.0	50.0	28.3	19.5	N	
7	0.15958	24.2	---	13.2	37.4	---	65.4	55.4	28.0	---	L1	
8	0.20515	28.7	---	13.2	41.9	---	63.3	53.3	21.4	---	L1	
9	0.30990	21.2	---	13.2	34.4	---	59.9	49.9	25.5	---	L1	
10	0.50905	19.9	19.1	13.2	33.1	32.3	56.0	46.0	22.9	13.7	L1	
11	3.86785	20.1	18.3	13.5	33.6	31.8	56.0	46.0	22.4	14.2	L1	
12	5.29317	20.8	17.2	13.6	34.4	30.8	60.0	50.0	25.6	19.2	L1	

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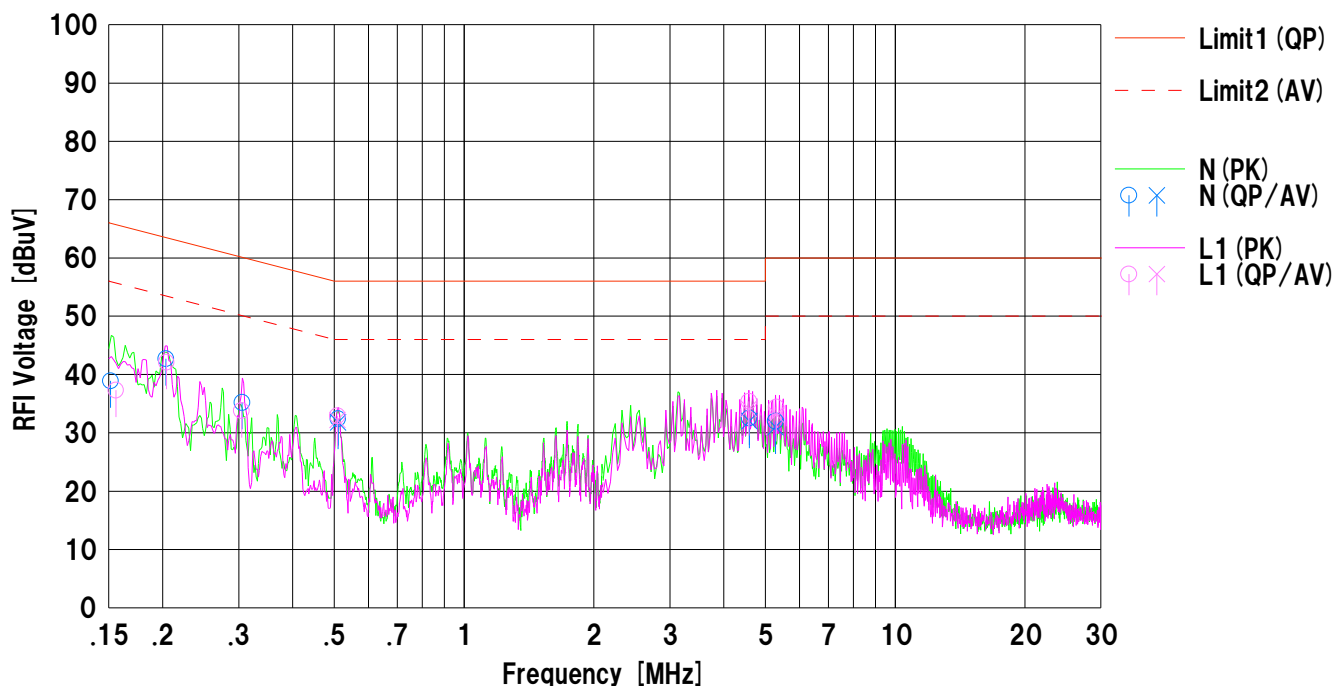
Company : Sony Corporation
Kind of EUT : Digital Surround Processor
Model No. : DP-RF6500
Serial No. : 21

Mode : Transmitting (2438MHz)
Report No. : 31DE0280-SH-01-A
Power : AC120V/60Hz SinglePhase
Temp./Humi. : 20deg.C./25%

Remarks : -

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

Engineer : Hikaru Shirasawa



No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP>	<AV>		<QP>	<AV>	<QP>	<AV>	<QP>	<AV>		
		[dBuV]	[dBuV]		[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]		
1	0.15119	25.7	---	13.2	38.9	---	65.9	55.9	27.0	---	N	
2	0.20325	29.5	---	13.2	42.7	---	63.4	53.4	20.7	---	N	
3	0.30531	22.0	---	13.2	35.2	---	60.0	50.0	24.8	---	N	
4	0.50978	19.2	18.6	13.2	32.4	31.8	56.0	46.0	23.6	14.2	N	
5	4.58760	19.0	18.5	13.5	32.5	32.0	56.0	46.0	23.5	14.0	N	
6	5.28060	18.4	17.4	13.6	32.0	31.0	60.0	50.0	28.0	19.0	N	
7	0.15560	24.1	---	13.2	37.3	---	65.6	55.6	28.3	---	L1	
8	0.20395	28.9	---	13.2	42.1	---	63.4	53.4	21.3	---	L1	
9	0.30460	20.6	---	13.2	33.8	---	60.1	50.1	26.3	---	L1	
10	0.50875	19.7	19.0	13.2	32.9	32.2	56.0	46.0	23.1	13.8	L1	
11	4.58390	21.9	20.6	13.5	35.4	34.1	56.0	46.0	20.6	11.9	L1	
12	5.29695	20.8	19.5	13.6	34.4	33.1	60.0	50.0	25.6	16.9	L1	

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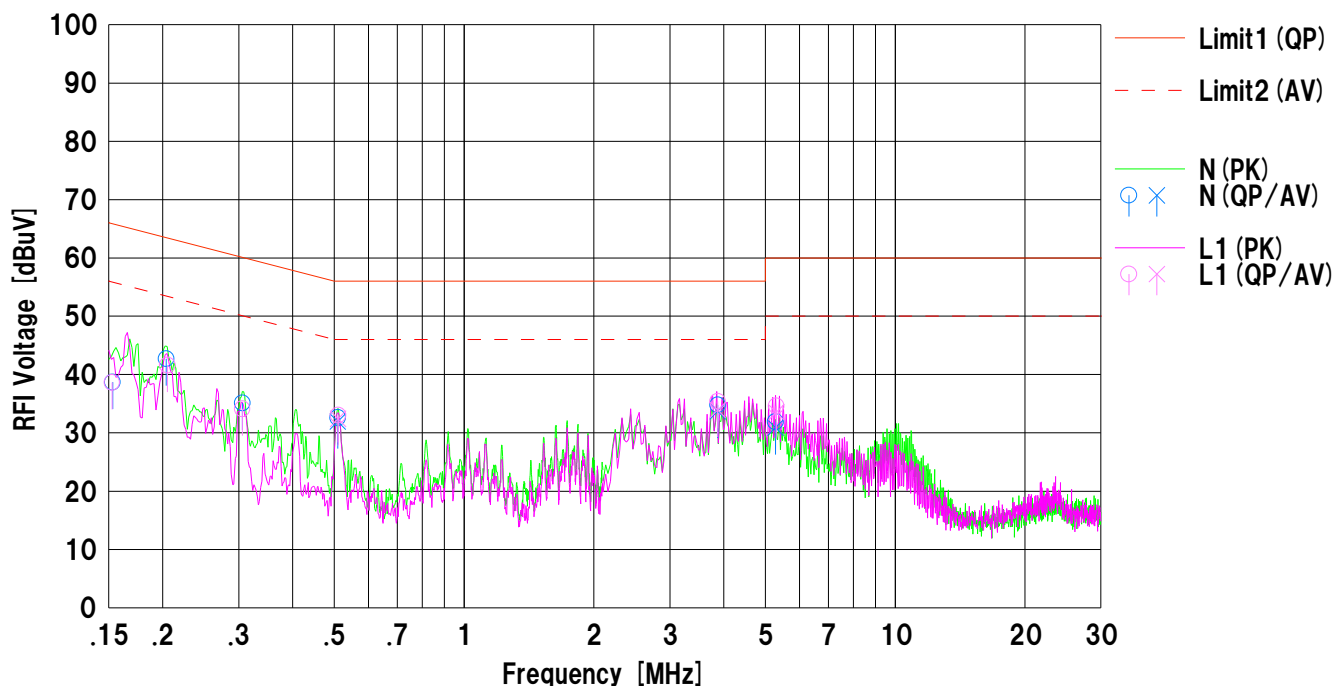
Company : Sony Corporation
Kind of EUT : Digital Surround Processor
Model No. : DP-RF6500
Serial No. : 21

Mode : Transmitting (2473MHz)
Report No. : 31DE0280-SH-01-A
Power : AC120V/60Hz SinglePhase
Temp./Humi. : 20deg.C./25%

Remarks : -

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

Engineer : Hikaru Shirasawa

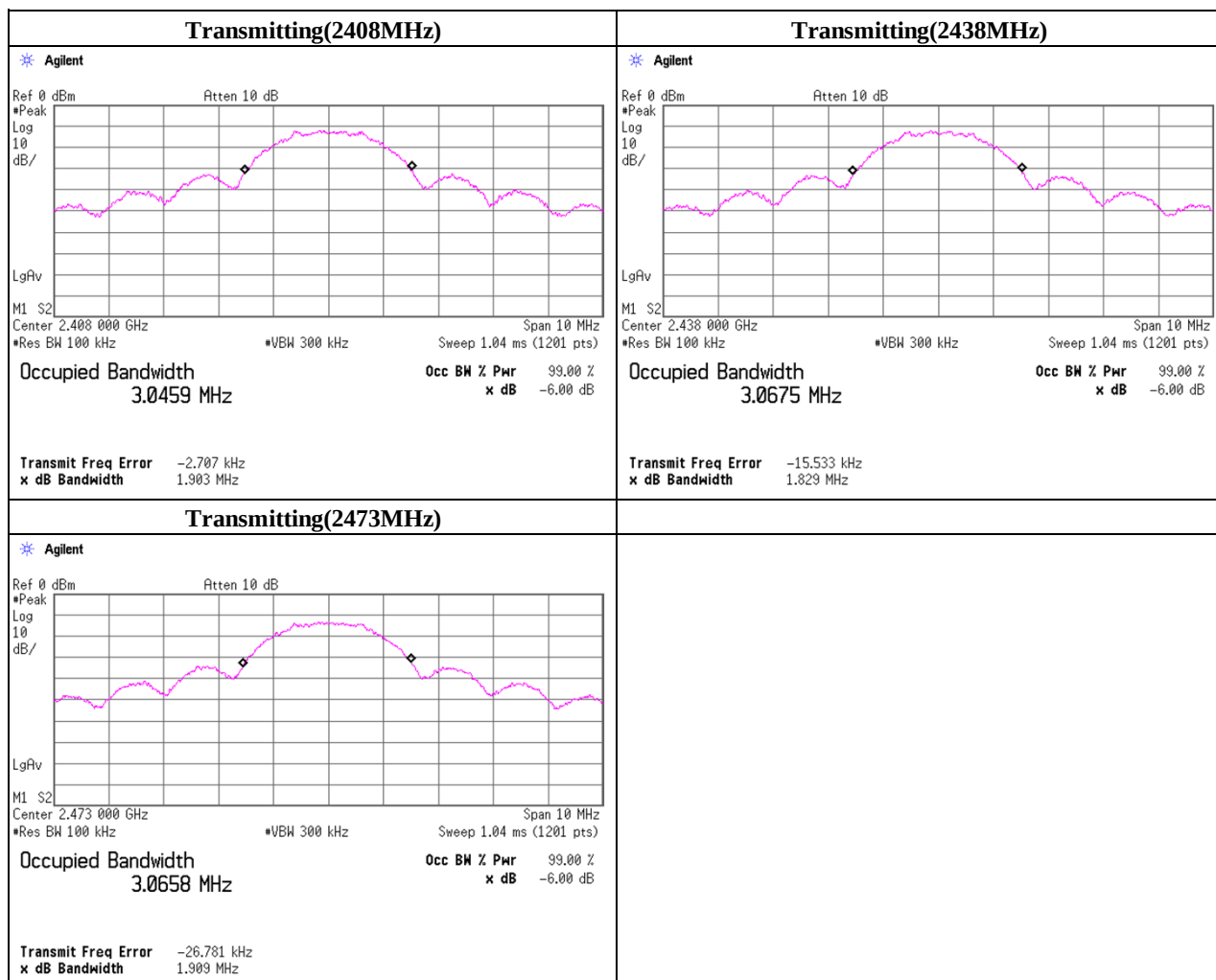


No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.15300	25.5	---	13.2	38.7	---	65.8	55.8	27.1	---	N	
2	0.20355	29.5	---	13.2	42.7	---	63.4	53.4	20.7	---	N	
3	0.30600	21.9	---	13.2	35.1	---	60.0	50.0	24.9	---	N	
4	0.50955	19.4	18.7	13.2	32.6	31.9	56.0	46.0	23.4	14.1	N	
5	3.87300	21.3	20.2	13.5	34.8	33.7	56.0	46.0	21.2	12.3	N	
6	5.28060	18.3	17.3	13.6	31.9	30.9	60.0	50.0	28.1	19.1	N	
7	0.15243	25.4	---	13.2	38.6	---	65.8	55.8	27.2	---	L1	
8	0.20505	28.4	---	13.2	41.6	---	63.4	53.4	21.8	---	L1	
9	0.30575	20.9	---	13.2	34.1	---	60.0	50.0	25.9	---	L1	
10	0.51010	19.8	19.2	13.2	33.0	32.4	56.0	46.0	23.0	13.6	L1	
11	3.87260	21.9	20.4	13.5	35.4	33.9	56.0	46.0	20.6	12.1	L1	
12	5.29930	21.0	19.9	13.6	34.6	33.5	60.0	50.0	25.4	16.5	L1	

-6dB Bandwidth

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	2011/1/27	
Temperature / Humidity	26deg.C. / 35 %	
Engineer	Hikaru Shirasawa	
Mode	Tx	

Freq. [MHz]	-6dB Bandwidth [MHz]	Limit [MHz]
2408.0000	1.903	> 0.500
2438.0000	1.829	> 0.500
2473.0000	1.909	> 0.500

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

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Peak Output Power (Conducted)

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
Date 2011/1/27
Temperature / Humidity 26deg.C. 35 %
Engineer Hikaru Shirasawa
Mode Tx

Ch	Freq.	P/M (PK) Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2408.0	-9.46	1.25	9.97	1.76	1.50	30.00	1000	28.24
Mid	2438.0	-9.76	1.26	9.97	1.47	1.40	30.00	1000	28.53
High	2473.0	-10.68	1.26	9.97	0.55	1.14	30.00	1000	29.45

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.2 Semi Anechoic Chamb	No.3 Semi Anechoic Chamber
Date	2011/1/23	2011/1/24	
Temperature / Humidity	20deg.C. , 25%	24deg.C. , 30%	
Engineer	Hikaru Shirasawa		
Mode	Tx, 2408 MHz		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	195.395	QP	21.7	16.4	8.8	31.7	15.2	43.5	28.3	113	68	
Hori.	722.267	QP	21.2	20.6	8.7	31.5	19.0	46.0	27.0	150	359	
Hori.	929.825	QP	20.1	22.3	9.6	30.6	21.4	46.0	24.6	142	358	
Hori.	2189.108	PK	48.1	27.3	13.2	40.3	48.3	73.9	25.6	100	144	
Hori.	2390.000	PK	46.4	27.5	13.3	40.2	47.0	73.9	26.9	100	0	
Hori.	2400.000	PK	52.6	27.5	13.3	40.2	53.2	73.9	20.7	100	49	
Hori.	2626.953	PK	50.1	27.9	13.5	40.3	51.2	73.9	22.7	100	203	
Hori.	4816.000	PK	53.3	31.6	5.6	40.1	50.4	73.9	23.5	100	207	
Hori.	7224.000	PK	48.0	36.5	6.8	38.3	53.0	73.9	20.9	100	223	
Hori.	9632.000	PK	46.3	37.9	8.0	37.3	54.9	73.9	19.0	100	219	
Hori.	12040.000	PK	45.5	39.4	9.2	38.4	55.7	73.9	18.2	100	0	
Hori.	2189.108	AV	37.9	27.3	13.2	40.3	38.1	53.9	15.8	100	144	
Hori.	2390.000	AV	33.1	27.5	13.3	40.2	33.7	53.9	20.2	100	0	
Hori.	2400.000	AV	39.9	27.5	13.3	40.2	40.5	53.9	13.4	100	49	
Hori.	2626.953	AV	41.6	27.9	13.5	40.3	42.7	53.9	11.2	100	203	
Hori.	4816.000	AV	43.8	31.6	5.6	40.1	40.9	53.9	13.0	100	207	
Hori.	7224.000	AV	35.8	36.5	6.8	38.3	40.8	53.9	13.1	100	223	
Hori.	9632.000	AV	34.5	37.9	8.0	37.3	43.1	53.9	10.8	100	219	
Hori.	12040.000	AV	32.2	39.4	9.2	38.4	42.4	53.9	11.5	100	0	
Vert.	41.805	QP	25.6	14.5	7.1	31.9	15.3	40.0	24.7	100	357	
Vert.	639.223	QP	21.2	19.6	8.4	31.6	17.6	46.0	28.4	100	115	
Vert.	907.368	QP	20.3	22.0	9.5	30.8	21.0	46.0	25.0	100	98	
Vert.	2189.108	PK	49.8	27.3	13.2	40.3	50.0	73.9	23.9	100	220	
Vert.	2390.000	PK	47.2	27.5	13.3	40.2	47.8	73.9	26.1	100	117	
Vert.	2400.000	PK	53.7	27.5	13.3	40.2	54.3	73.9	19.6	100	99	
Vert.	2626.942	PK	51.8	27.9	13.5	40.3	52.9	73.9	21.0	100	348	
Vert.	4816.000	PK	50.9	31.6	5.6	40.1	48.0	73.9	25.9	100	112	
Vert.	7224.000	PK	47.6	36.5	6.8	38.3	52.6	73.9	21.3	100	247	
Vert.	9632.000	PK	44.7	37.9	8.0	37.3	53.3	73.9	20.6	100	124	
Vert.	12040.000	PK	45.8	39.4	9.2	38.4	56.0	73.9	17.9	100	0	
Vert.	2189.108	AV	39.7	27.3	13.2	40.3	39.9	53.9	14.0	100	220	
Vert.	2390.000	AV	34.3	27.5	13.3	40.2	34.9	53.9	19.0	100	117	
Vert.	2400.000	AV	41.8	27.5	13.3	40.2	42.4	53.9	11.5	100	99	
Vert.	2626.942	AV	43.7	27.9	13.5	40.3	44.8	53.9	9.1	100	348	
Vert.	4816.000	AV	40.9	31.6	5.6	40.1	38.0	53.9	15.9	100	112	
Vert.	7224.000	AV	34.8	36.5	6.8	38.3	39.8	53.9	14.1	100	247	
Vert.	9632.000	AV	31.4	37.9	8.0	37.3	40.0	53.9	13.9	100	124	
Vert.	12040.000	AV	31.9	39.4	9.2	38.4	42.1	53.9	11.8	100	0	

$$\text{Result} = \text{Reading} + \text{Ant Factor} + \text{Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz))} - \text{Gain(Amprifier)}$$

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

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

Distance factor: 13GHz-40GHz $20\log(3.0\text{m}/1.0\text{m})= 9.5\text{dB}$

Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.2 Semi Anechoic Chamb No.3 Semi Anechoic Chamber
 Date 2011/1/27 2011/1/24
 Temperature / Humidity 20deg.C. , 25% 24deg.C. , 30%
 Engineer Hikaru Shirasawa
 Mode Tx, 2438 MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	30.536	QP	25.5	17.6	6.9	31.9	18.1	40.0	21.9	290	106	
Hori.	217.135	QP	21.2	16.8	9.0	31.7	15.3	46.0	30.7	161	358	
Hori.	826.150	QP	21.0	21.3	9.2	31.2	20.3	46.0	25.7	150	192	
Hori.	2216.439	PK	50.8	27.4	13.2	40.3	51.1	73.9	22.8	100	238	
Hori.	2659.650	PK	50.6	28.0	13.6	40.4	51.8	73.9	22.1	100	206	
Hori.	4876.000	PK	53.1	31.7	5.7	40.0	50.5	73.9	23.4	100	208	
Hori.	7314.000	PK	47.2	36.7	6.9	38.5	52.3	73.9	21.6	100	205	
Hori.	9752.000	PK	46.8	38.1	8.0	37.4	55.5	73.9	18.4	100	215	
Hori.	12190.000	PK	46.0	39.2	9.2	38.2	56.2	73.9	17.7	100	0	
Hori.	2216.439	AV	41.0	27.4	13.2	40.3	41.3	53.9	12.6	100	238	
Hori.	2659.650	AV	41.7	28.0	13.6	40.4	42.9	53.9	11.0	100	206	
Hori.	4876.000	AV	43.9	31.7	5.7	40.0	41.3	53.9	12.6	100	208	
Hori.	7314.000	AV	34.7	36.7	6.9	38.5	39.8	53.9	14.1	100	205	
Hori.	9752.000	AV	34.4	38.1	8.0	37.4	43.1	53.9	10.8	100	215	
Hori.	12190.000	AV	32.7	39.2	9.2	38.2	42.9	53.9	11.0	100	0	
Vert.	42.055	QP	25.2	14.3	7.1	31.9	14.7	40.0	25.3	102	357	
Vert.	654.275	QP	21.0	19.8	8.4	31.6	17.6	46.0	28.4	100	218	
Vert.	948.786	QP	20.4	22.5	9.7	30.5	22.1	46.0	23.9	100	219	
Vert.	2216.439	PK	51.5	27.4	13.2	40.3	51.8	73.9	22.1	158	232	
Vert.	2659.319	PK	50.5	28.0	13.6	40.4	51.7	73.9	22.2	100	0	
Vert.	4876.000	PK	49.2	31.7	5.7	40.0	46.6	73.9	27.3	100	249	
Vert.	7314.000	PK	47.1	36.7	6.9	38.5	52.2	73.9	21.7	100	73	
Vert.	9752.000	PK	45.4	38.1	8.0	37.4	54.1	73.9	19.8	100	121	
Vert.	12190.000	PK	45.9	39.2	9.2	38.2	56.1	73.9	17.8	100	0	
Vert.	2216.439	AV	43.4	27.4	13.2	40.3	43.7	53.9	10.2	158	232	
Vert.	2659.319	AV	42.1	28.0	13.6	40.4	43.3	53.9	10.6	100	0	
Vert.	4876.000	AV	38.9	31.7	5.7	40.0	36.3	53.9	17.6	100	249	
Vert.	7314.000	AV	33.9	36.7	6.9	38.5	39.0	53.9	14.9	100	73	
Vert.	9752.000	AV	32.1	38.1	8.0	37.4	40.8	53.9	13.1	100	121	
Vert.	12190.000	AV	32.5	39.2	9.2	38.2	42.7	53.9	11.2	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).

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

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

UL Japan, Inc.

Shonan EMC Lab.

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.2 Semi Anechoic Chamb No.3 Semi Anechoic Chamber
 Date 2011/1/27 2011/1/24
 Temperature / Humidity 20deg.C. , 25% 24deg.C. , 30%
 Engineer Hikaru Shirasawa
 Mode Tx, 2473 MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	30.622	QP	25.4	17.6	6.9	31.9	18.0	40.0	22.0	300	28	
Hori.	291.090	QP	21.3	19.3	9.6	31.7	18.5	46.0	27.5	133	187	
Hori.	913.899	QP	20.4	22.1	9.6	30.7	21.4	46.0	24.6	100	49	
Hori.	2248.215	PK	51.5	27.4	13.2	40.3	51.8	73.9	22.1	100	298	
Hori.	2483.500	PK	48.4	27.6	13.3	40.1	49.2	73.9	24.7	100	208	
Hori.	2697.905	PK	48.6	28.1	13.6	40.4	49.9	73.9	24.0	100	228	
Hori.	4946.000	PK	52.0	31.9	5.7	40.0	49.6	73.9	24.3	100	230	
Hori.	7419.000	PK	47.6	36.9	6.9	38.6	52.8	73.9	21.1	100	228	
Hori.	9892.000	PK	45.8	38.4	8.1	37.5	54.8	73.9	19.1	100	216	
Hori.	12365.000	PK	46.4	39.1	9.3	37.9	56.9	73.9	17.0	100	0	
Hori.	2248.215	AV	43.5	27.4	13.2	40.3	43.8	53.9	10.1	100	298	
Hori.	2483.500	AV	34.6	27.6	13.3	40.1	35.4	53.9	18.5	100	208	
Hori.	2697.905	AV	38.7	28.1	13.6	40.4	40.0	53.9	13.9	100	228	
Hori.	4946.000	AV	42.4	31.9	5.7	40.0	40.0	53.9	13.9	100	230	
Hori.	7419.000	AV	35.2	36.9	6.9	38.6	40.4	53.9	13.5	100	228	
Hori.	9892.000	AV	32.8	38.4	8.1	37.5	41.8	53.9	12.1	100	216	
Hori.	12365.000	AV	32.7	39.1	9.3	37.9	43.2	53.9	10.7	100	0	
Vert.	41.521	QP	25.2	14.5	7.1	31.9	14.9	40.0	25.1	100	347	
Vert.	282.234	QP	21.6	18.9	9.6	31.7	18.4	46.0	27.6	181	35	
Vert.	875.663	QP	20.7	21.7	9.4	30.9	20.9	46.0	25.1	100	201	
Vert.	2248.096	PK	47.3	27.4	13.2	40.3	47.6	73.9	26.3	100	192	
Vert.	2483.500	PK	47.3	27.6	13.3	40.1	48.1	73.9	25.8	100	71	
Vert.	2697.830	PK	49.0	28.1	13.6	40.4	50.3	73.9	23.6	154	1	
Vert.	4946.000	PK	48.8	31.9	5.7	40.0	46.4	73.9	27.5	100	249	
Vert.	7419.000	PK	47.3	36.9	6.9	38.6	52.5	73.9	21.4	100	74	
Vert.	9892.000	PK	45.4	38.4	8.1	37.5	54.4	73.9	19.5	100	215	
Vert.	12365.000	PK	45.1	39.1	9.3	37.9	55.6	73.9	18.3	100	0	
Vert.	2248.096	AV	44.8	27.4	13.2	40.3	45.1	53.9	8.8	100	192	
Vert.	2483.500	AV	35.5	27.6	13.3	40.1	36.3	53.9	17.6	100	71	
Vert.	2697.830	AV	39.8	28.1	13.6	40.4	41.1	53.9	12.8	154	1	
Vert.	4946.000	AV	37.0	31.9	5.7	40.0	34.6	53.9	19.3	100	249	
Vert.	7419.000	AV	34.3	36.9	6.9	38.6	39.5	53.9	14.4	100	74	
Vert.	9892.000	AV	32.3	38.4	8.1	37.5	41.3	53.9	12.6	100	215	
Vert.	12365.000	AV	32.6	39.1	9.3	37.9	43.1	53.9	10.8	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).

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

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

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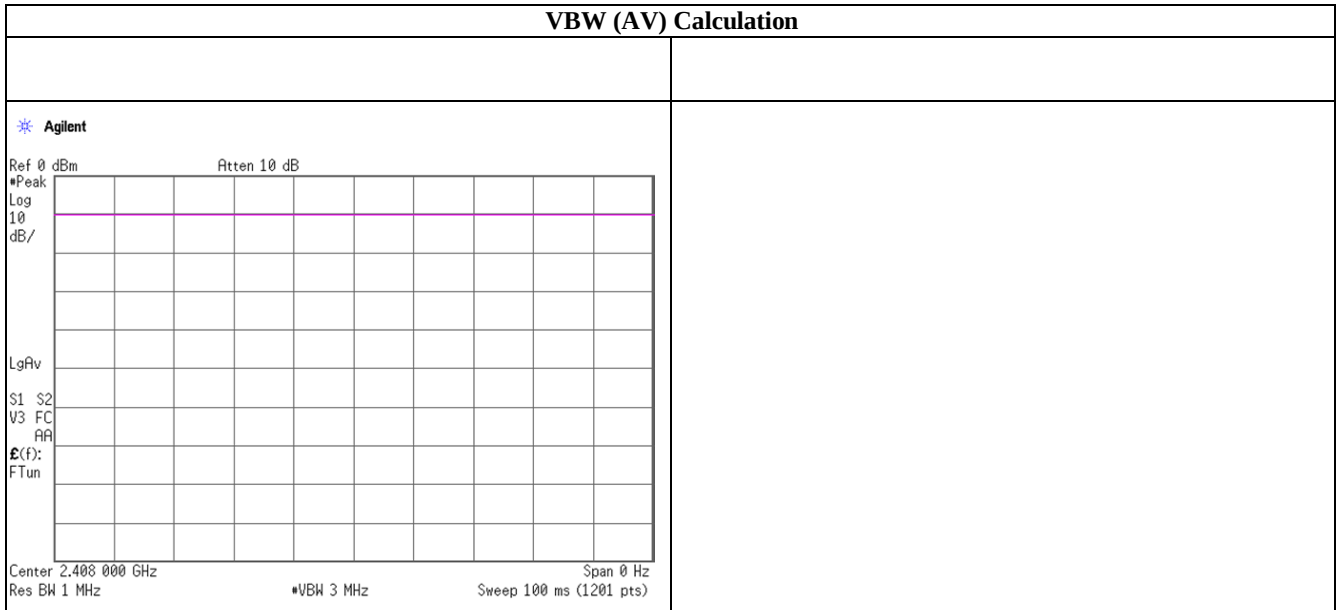
Shonan EMC Lab.

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

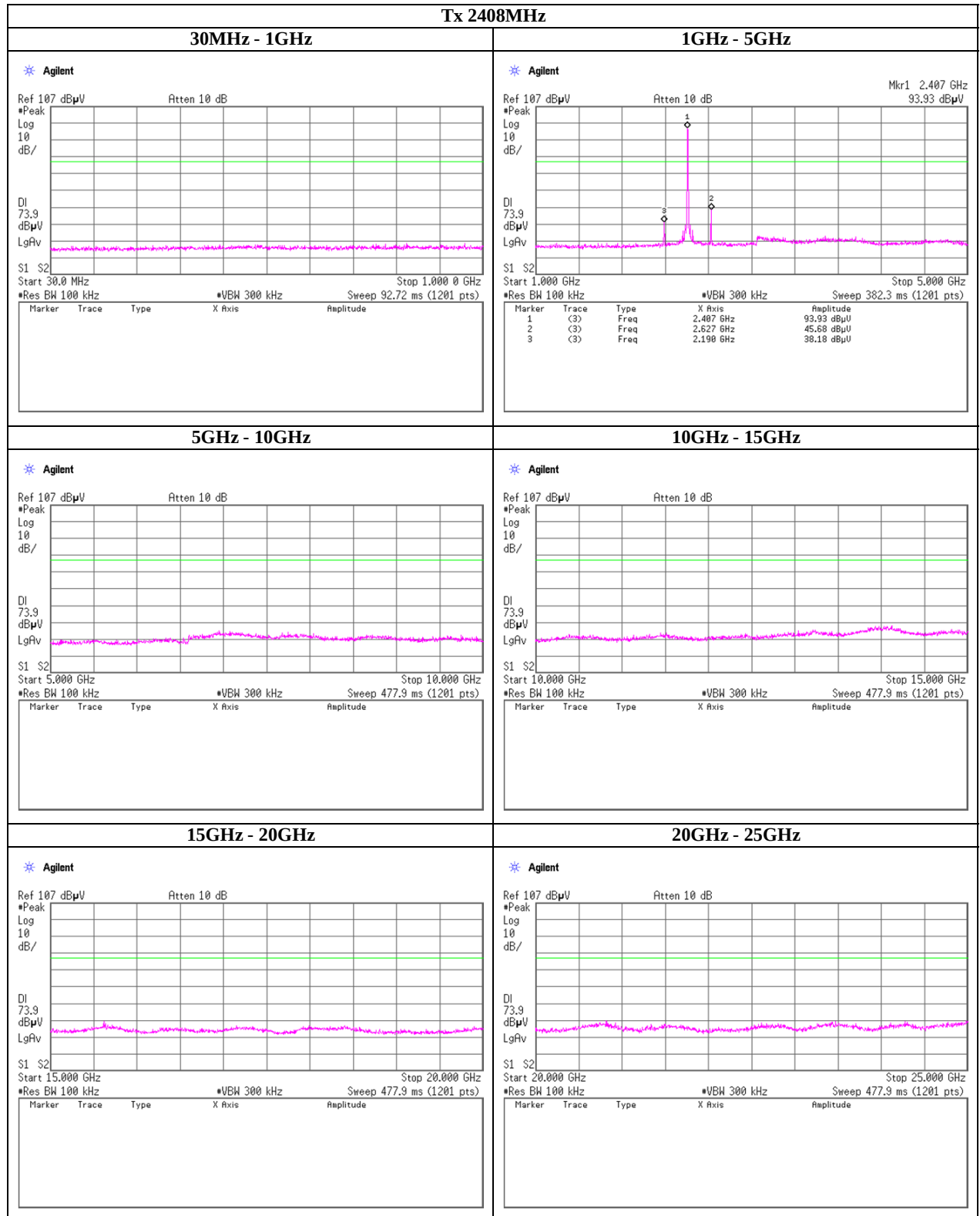
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Spurious emission (Radiated)



Spurious emission (Conducted)



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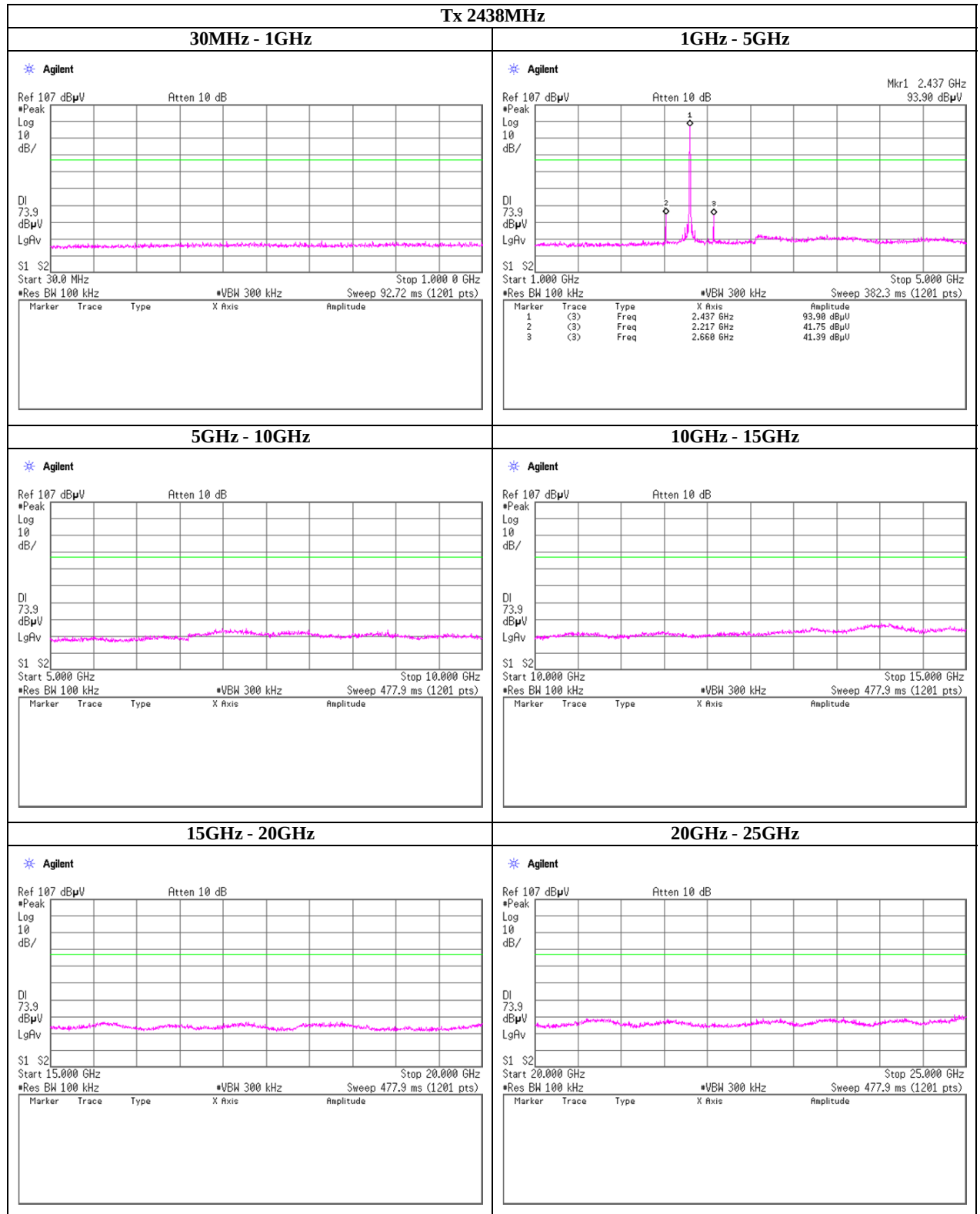
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Spurious emission (Conducted)



UL Japan, Inc.

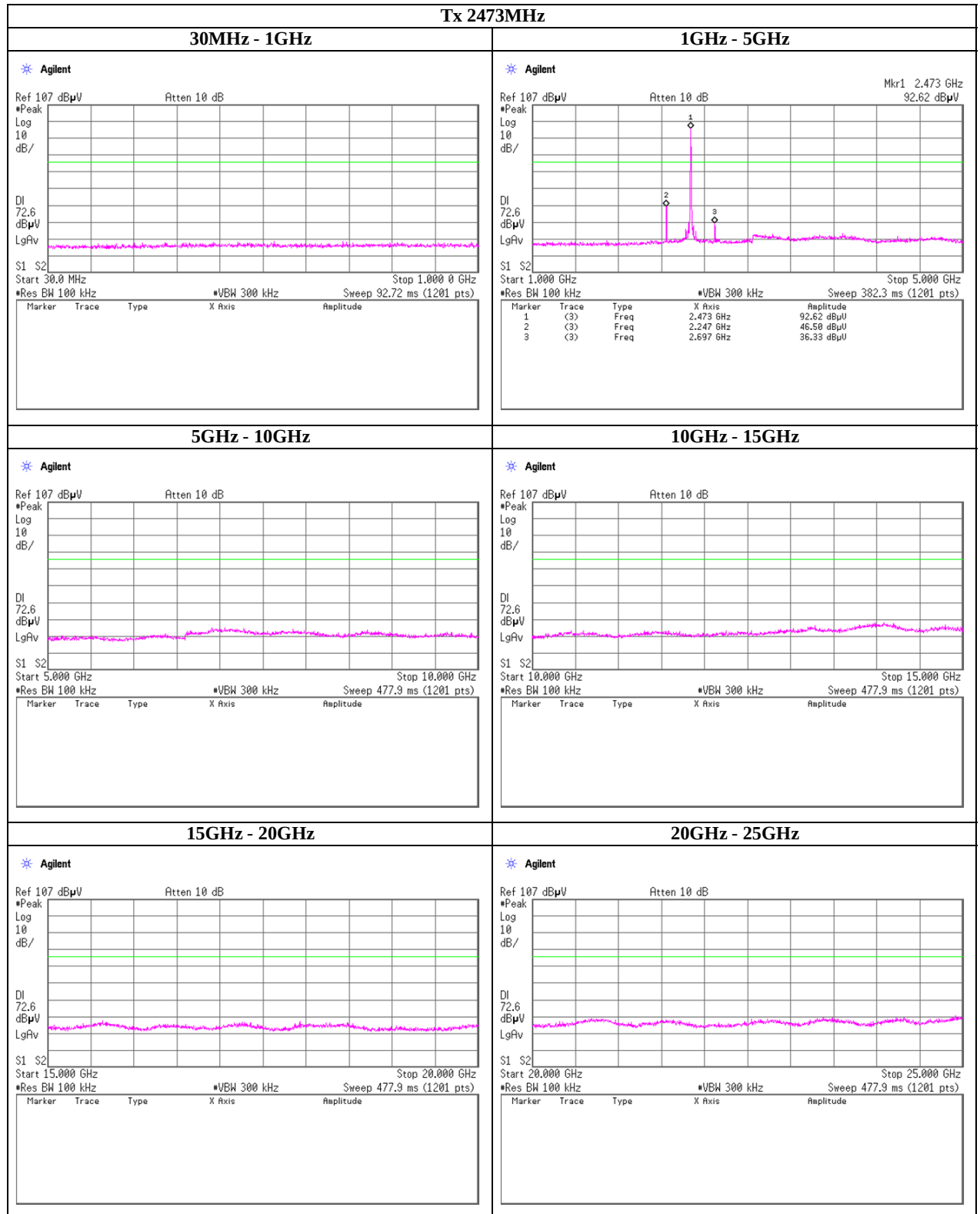
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Spurious emission (Conducted)



UL Japan, Inc.

Shonan EMC Lab.

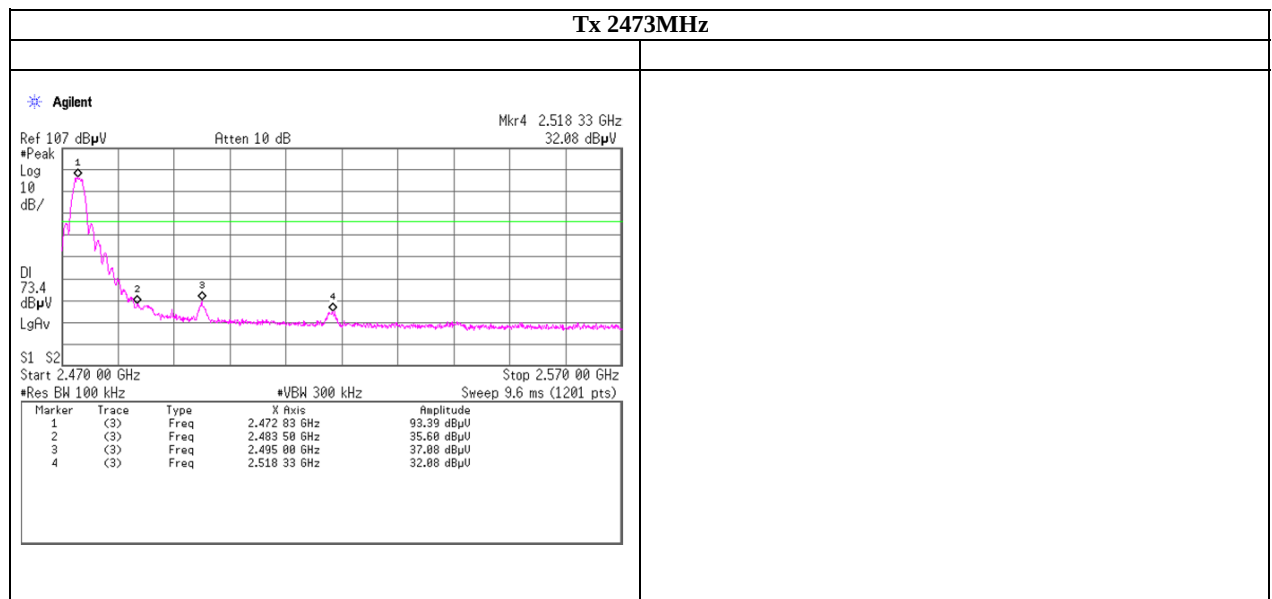
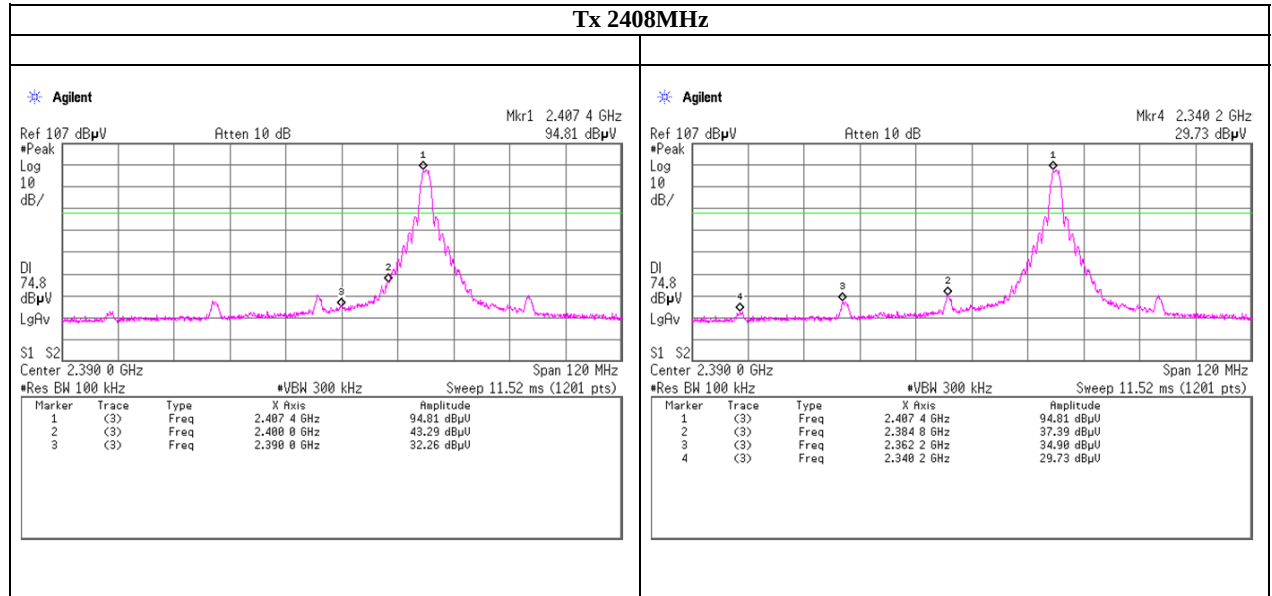
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Telephone : +81 463 50 6400

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Spurious emission (Conducted)

Band Edge compliance



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Power Density

Test place UL Japan, Inc. Shonan EM No.5 Shielded Room
Date 2011/1/27
Temperature / Humidity 26deg.C. 35 %
Engineer Hikaru Shirasawa
Mode Tx

Ch. Freq.	Freq.	Reading	Cable Loss	Atten.	Result	Limit	Margin
[MHz]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[dBm]	[dB]
2408	2408.00	-18.98	1.25	9.97	-7.76	8.00	15.76
2438	2438.03	-18.90	1.25	9.97	-7.68	8.00	15.68
2473	2473.13	-19.29	1.26	9.97	-8.06	8.00	16.06

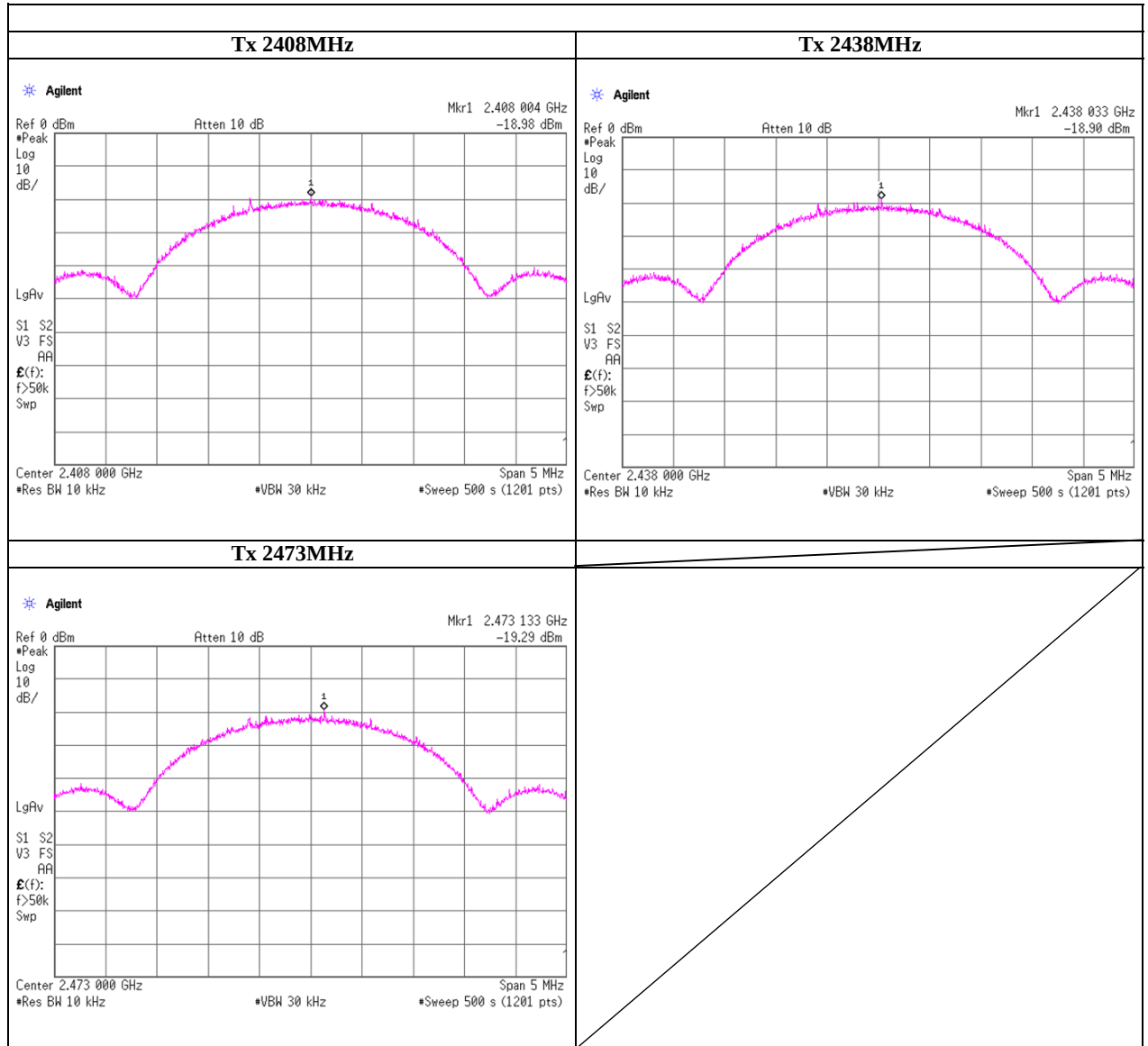
Sample Calculation:

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

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Power Density



UL Japan, Inc.

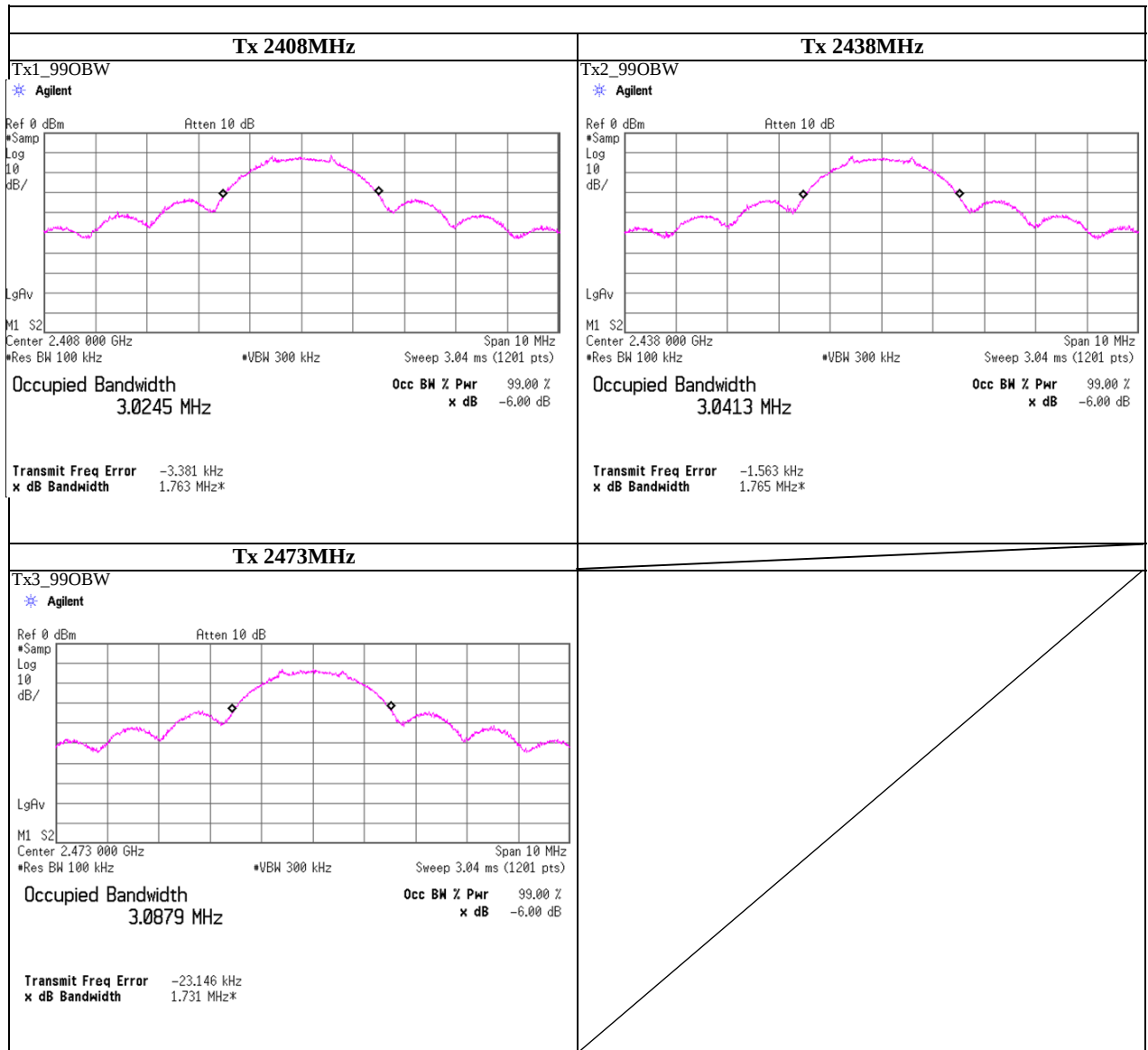
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99% Occupied Bandwidth



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:

CE: Conducted Emission

RE: Radiated Emission

AT: Antenna Terminal Conducted test

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