

Data of Conducted Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Shielded room
Report No. : 301E0014-YK-01-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Type of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 81
 Power : AC120V/60Hz
 Mode : Transmitting (11b 2437MHz)
 Remarks : -
 Date : 7/12/2010
 Phase : Single Phase
 Temperature : 22 °C
 Humidity : 63 %
 Limit : FCC Part15C § 15. 207. (CISPR Pub. 22)

Engineer : Takahiro Suzuki

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.1500	32.6	-	33.4	-	0.1	0.1	13.0	46.6	-	66.0	56.0	19.4	-
2.	0.1627	30.7	-	31.5	-	0.1	0.1	13.0	44.7	-	65.3	55.3	20.6	-
3.	0.4248	21.2	-	22.9	-	0.1	0.2	13.0	36.2	-	57.4	47.4	21.2	-
4.	0.5259	18.0	-	18.8	-	0.1	0.2	13.0	32.1	-	56.0	46.0	23.9	-
5.	4.9444	16.2	-	18.3	-	0.2	0.6	13.0	32.1	-	56.0	46.0	23.9	-
6.	6.2399	20.5	-	20.9	-	0.3	0.7	13.0	34.9	-	60.0	50.0	25.1	-

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

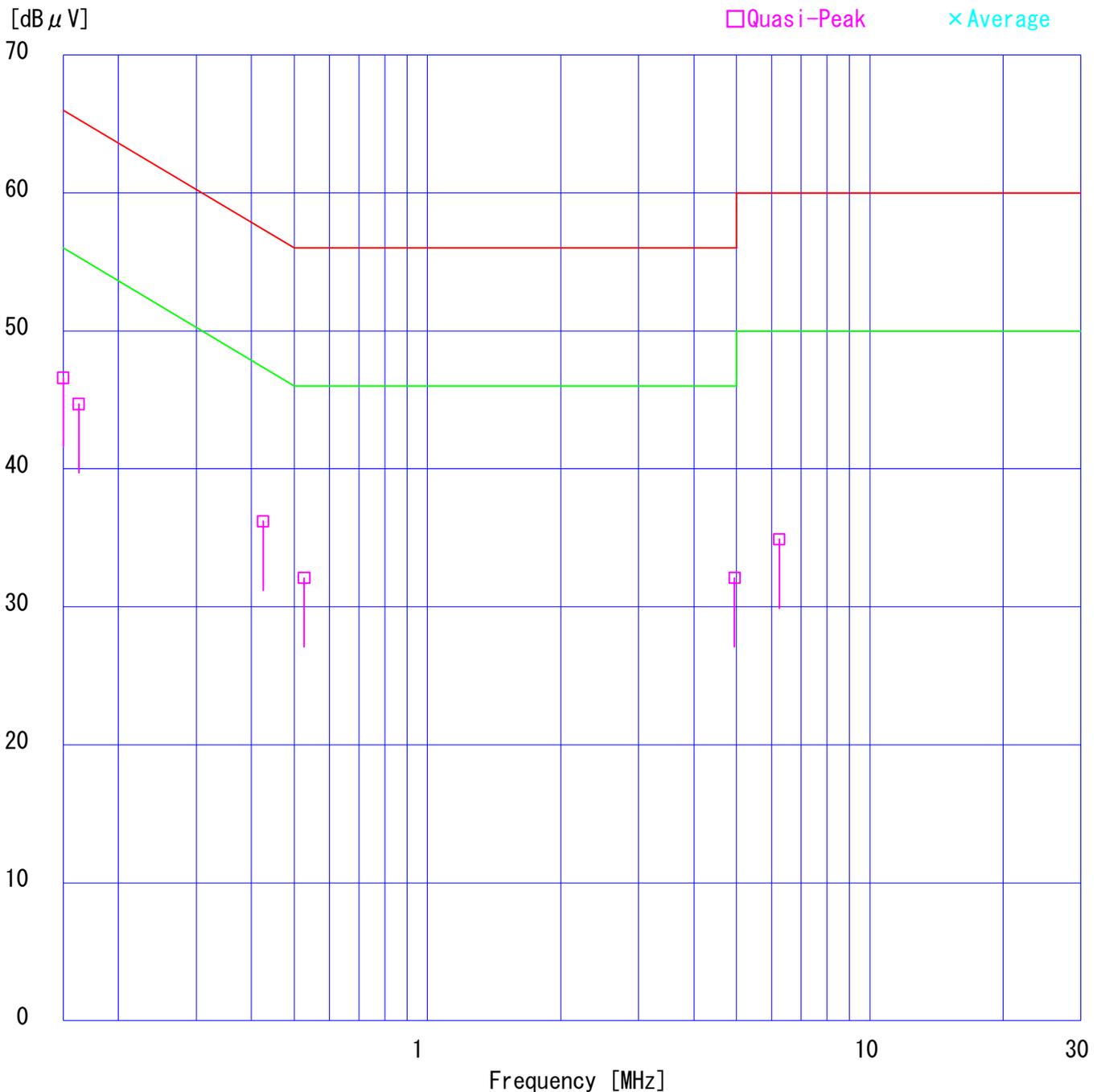
■ LISN: KLS-01 (NSLK8126) ■ COAXIAL CABLE: KCC-14/15/16/18
 ■ PULSE LIMITTER: KPL-01 ■ EMI RECEIVER: KTR-02

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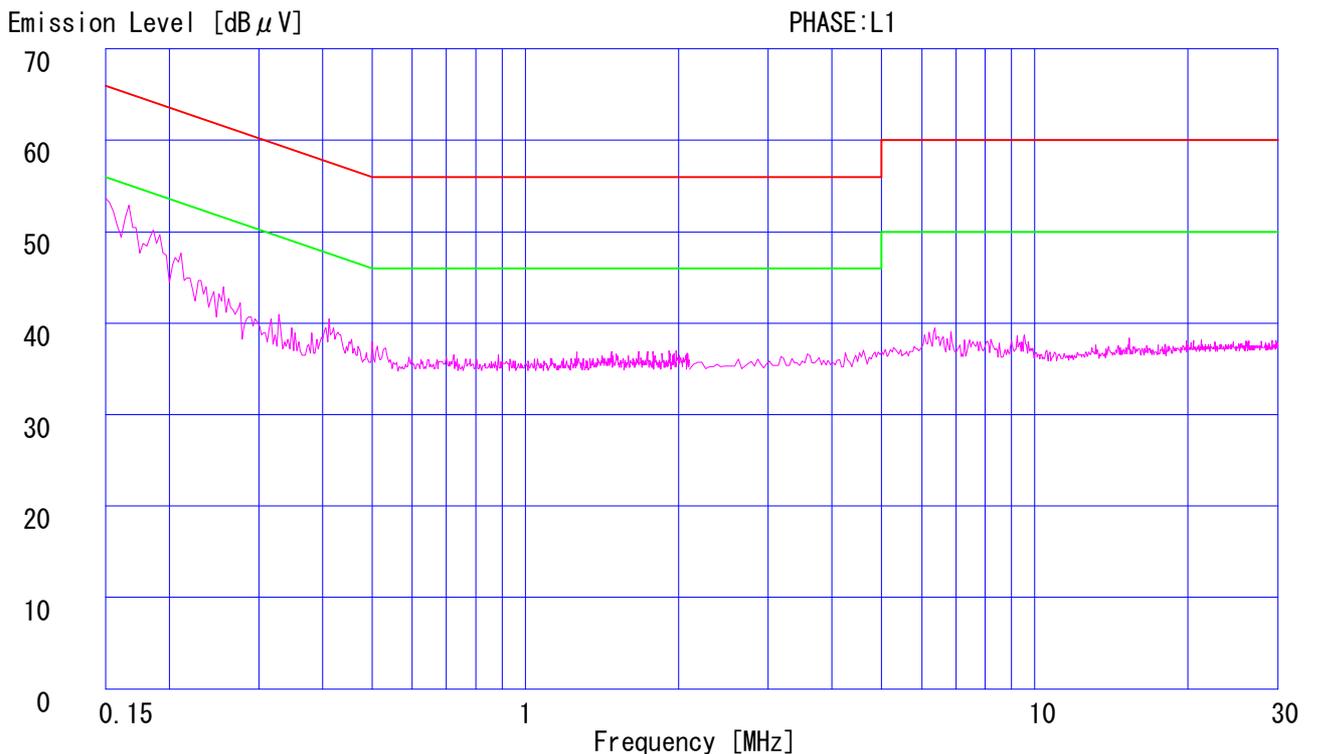
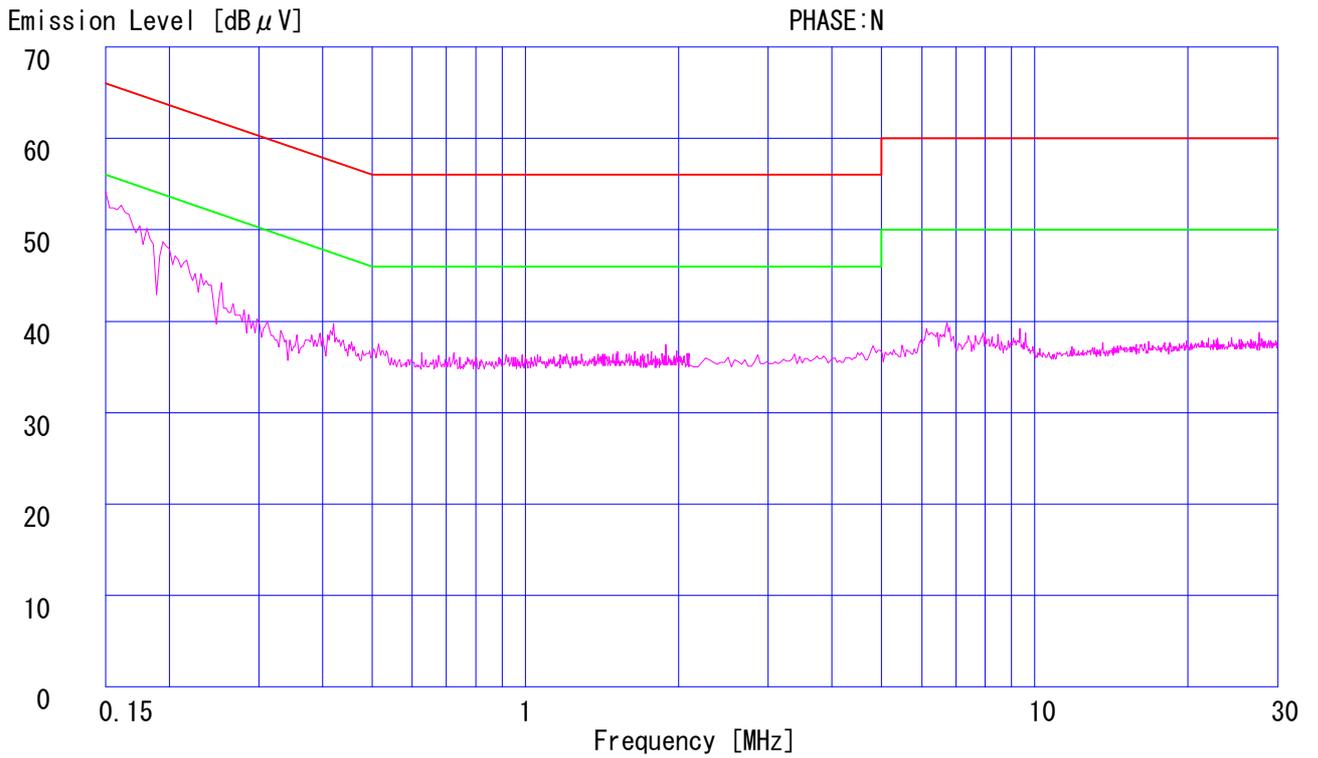
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Limit 2 : None

Engineer : Takahiro Suzuki



Data of Conducted Disturbance Test

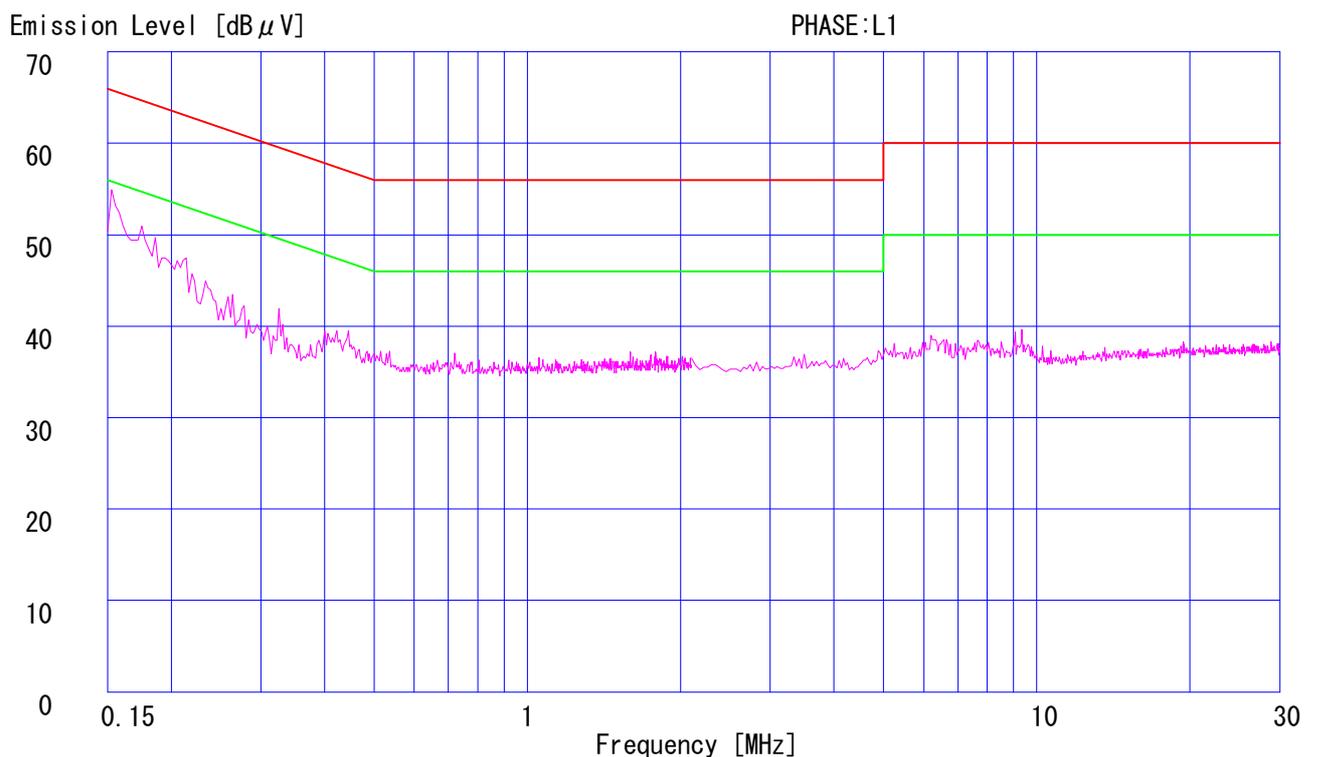
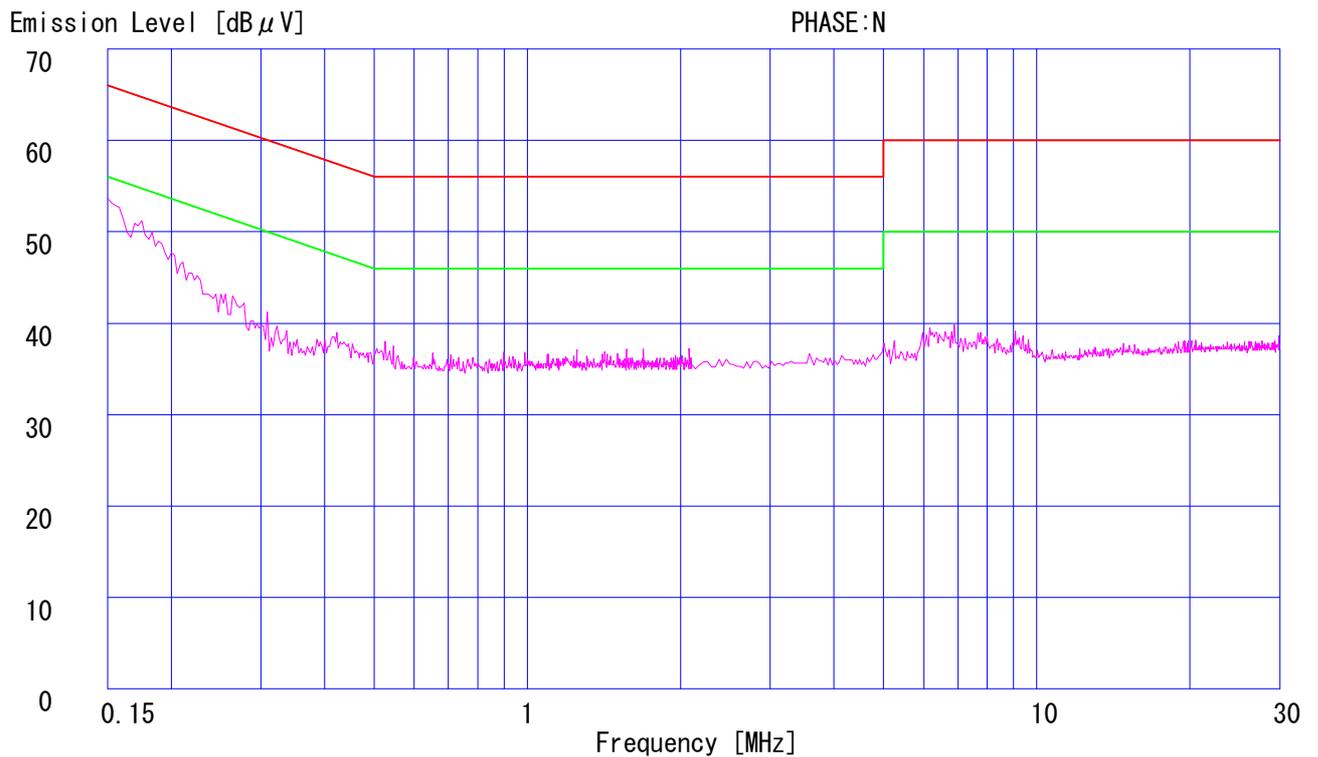
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Applicant : Sony EMCS Corporation Kisarazu TEC
Type of Equipment : Network Audio System/Server
Model No. : NAS-SV20i
Serial No. : 81
Power : AC120V/60Hz
Mode : Transmitting (11b 2412MHz)
Remarks : -
Date : 7/12/2010
Phase : Single Phase
Temperature : 22 °C
Humidity : 63 %
Limit 1 : FCC Part15C § 15.207. (CISPR Pub.22)
Limit 2 : None

Engineer : Takahiro Suzuki



Data of Conducted Disturbance Test

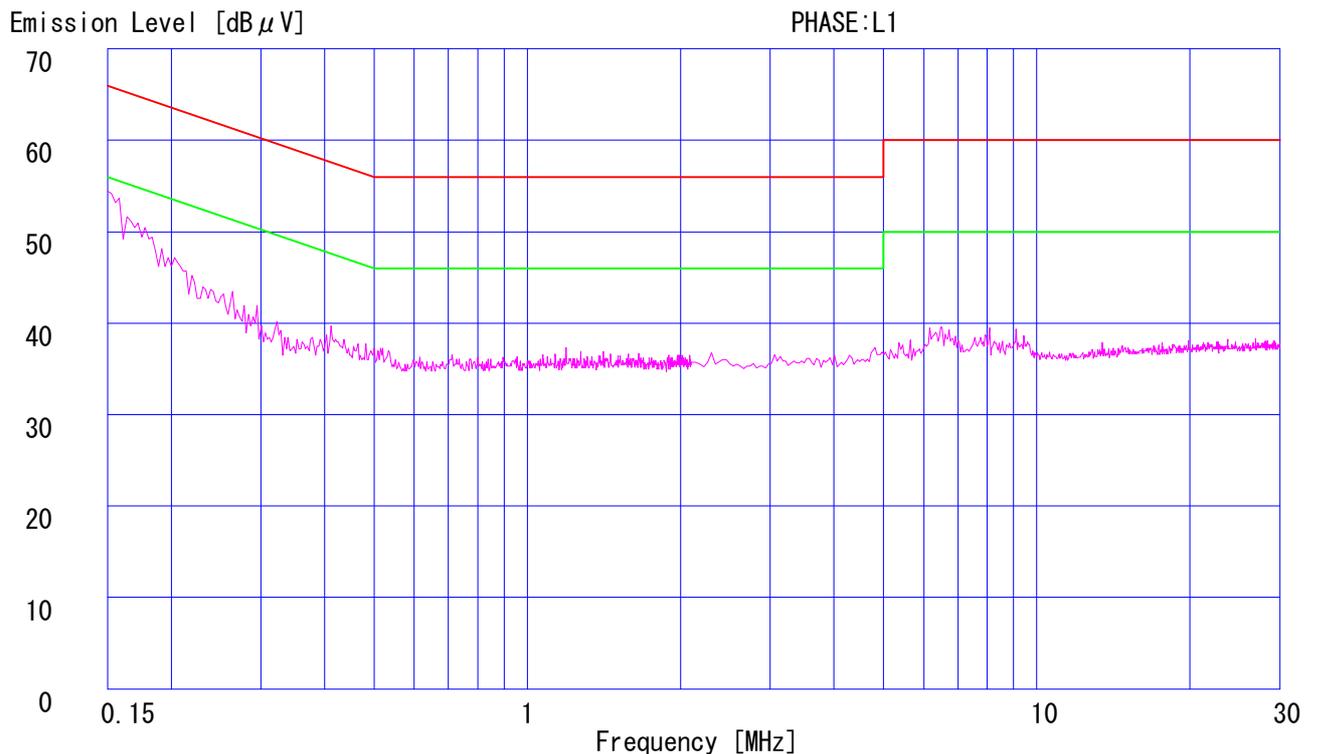
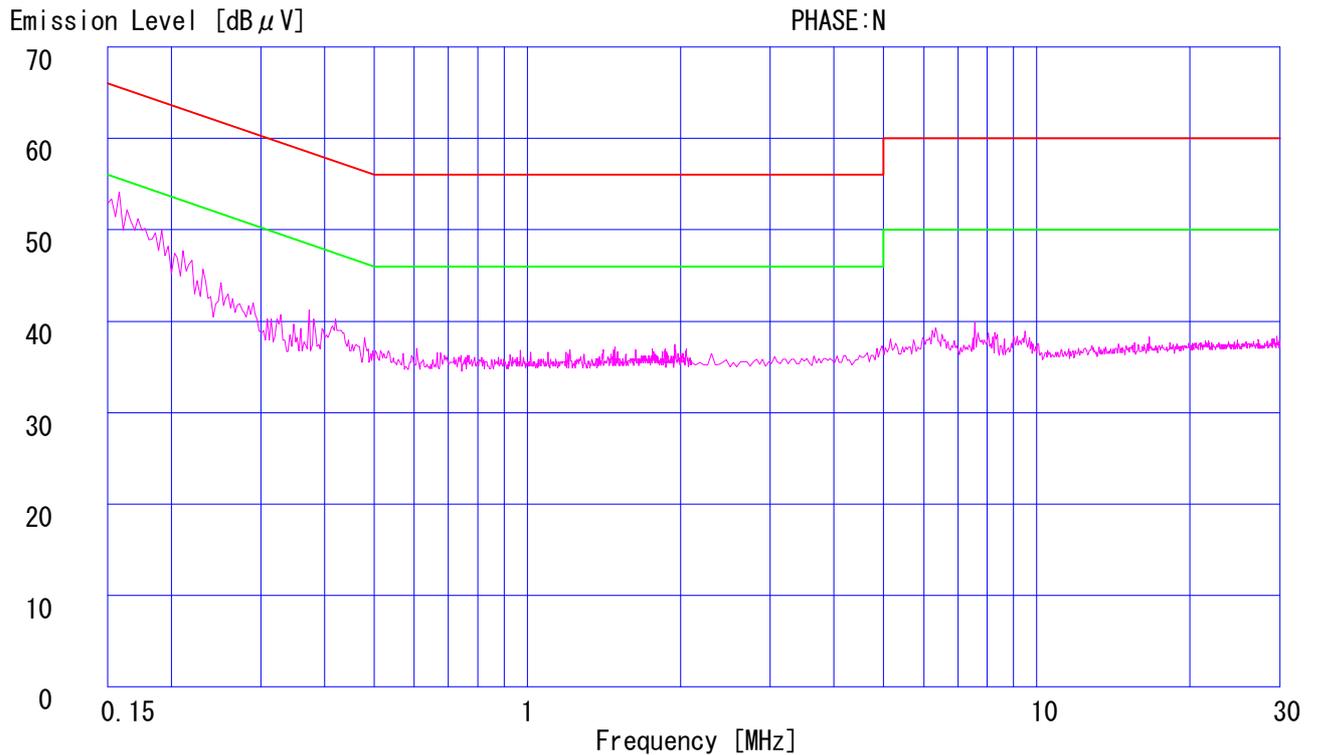
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Applicant : Sony EMCS Corporation Kisarazu TEC
Type of Equipment : Network Audio System/Server
Model No. : NAS-SV20i
Serial No. : 81
Power : AC120V/60Hz
Mode : Transmitting (11b 2462MHz)
Remarks : -
Date : 7/12/2010
Phase : Single Phase
Temperature : 22 °C
Humidity : 63 %
Limit 1 : FCC Part15C § 15.207. (CISPR Pub.22)
Limit 2 : None

Engineer : Takahiro Suzuki



Data of Conducted Disturbance Test

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Engineer : Takahiro Suzuki

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.1500	32.7	-	33.3	-	0.1	0.1	13.0	46.5	-	66.0	56.0	19.5	-
2.	0.1641	30.7	-	31.5	-	0.1	0.1	13.0	44.7	-	65.3	55.3	20.6	-
3.	0.4285	20.8	-	22.6	-	0.1	0.2	13.0	35.9	-	57.3	47.3	21.4	-
4.	0.5266	17.9	-	18.3	-	0.1	0.2	13.0	31.6	-	56.0	46.0	24.4	-
5.	4.9489	16.3	-	16.9	-	0.2	0.6	13.0	30.7	-	56.0	46.0	25.3	-
6.	6.3298	20.8	-	21.0	-	0.3	0.7	13.0	35.0	-	60.0	50.0	25.0	-

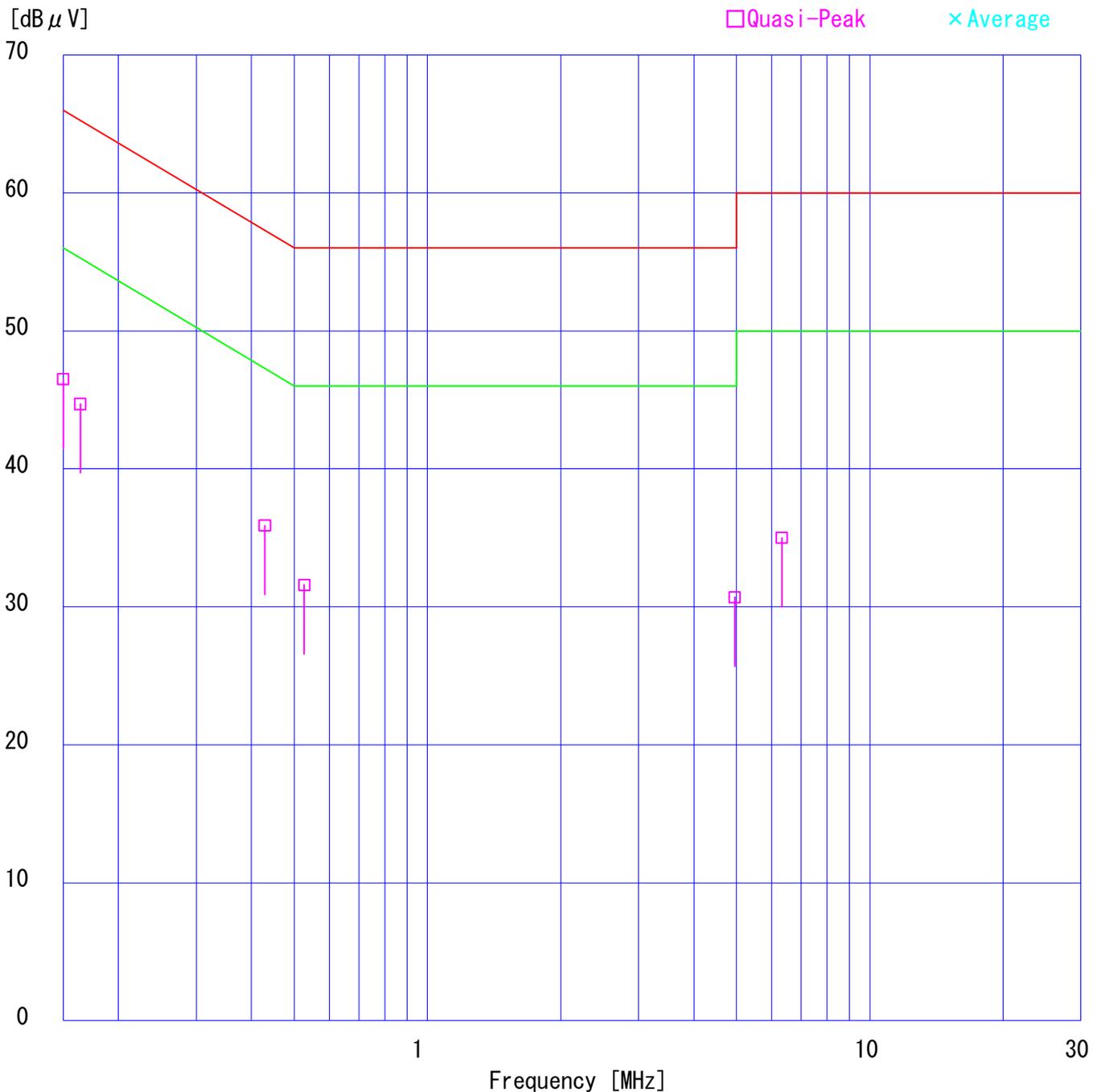
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

■ LISN: KLS-01 (NSLK8126) ■ COAXIAL CABLE: KCC-14/15/16/18
 ■ PULSE LIMITTER: KPL-01 ■ EMI RECEIVER: KTR-02

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Engineer : Takahiro Suzuki



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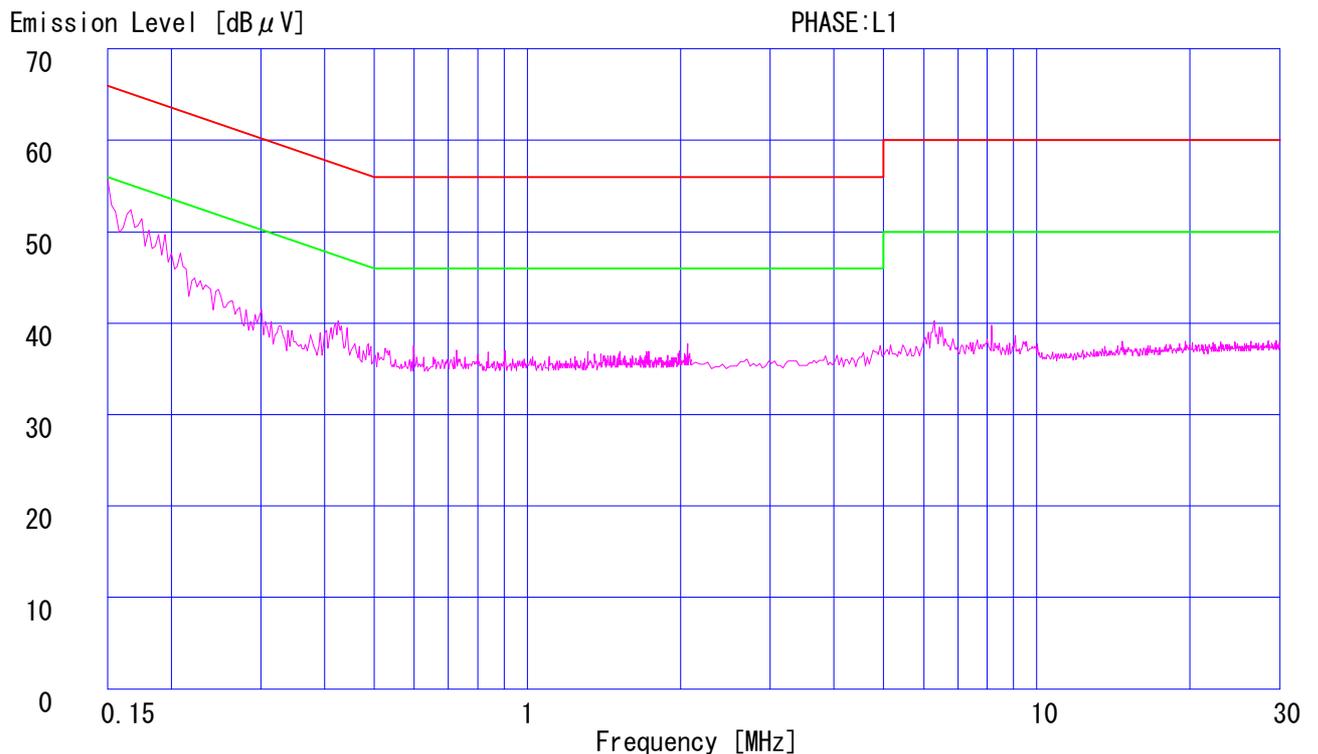
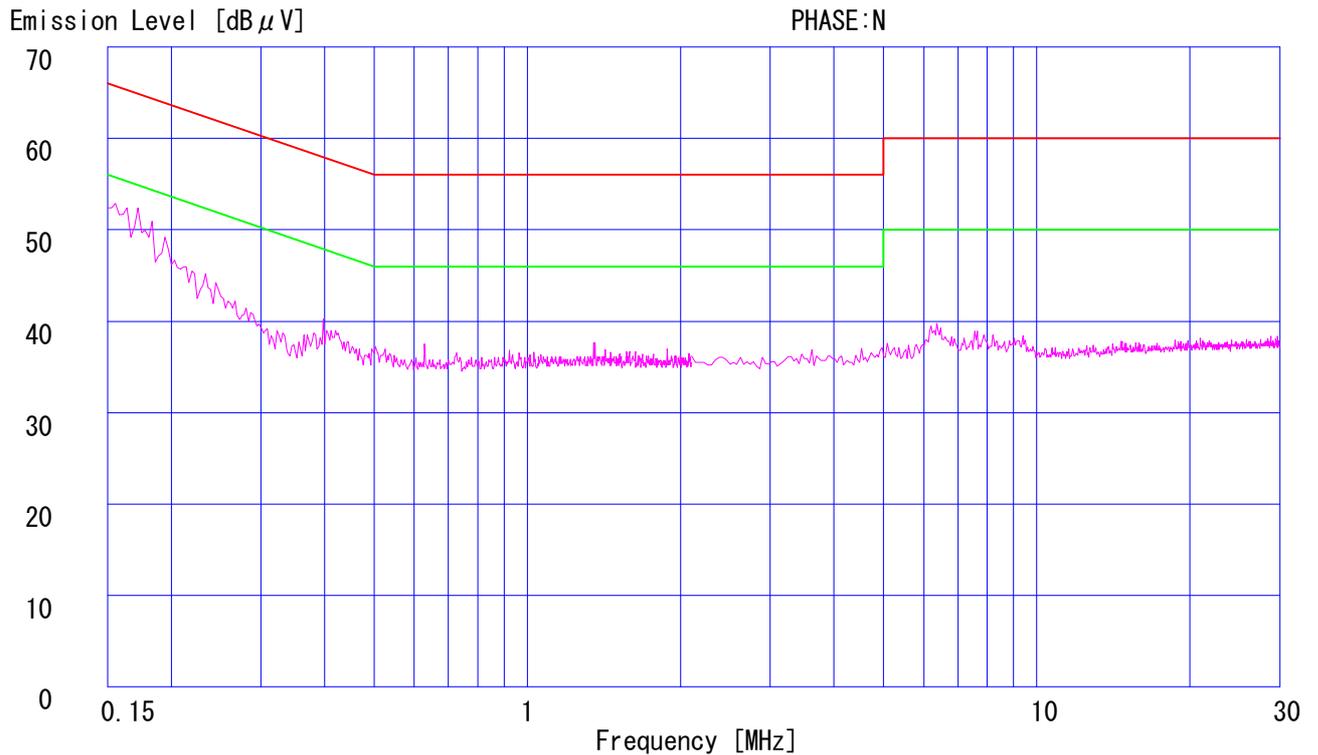
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Limit 2 : None

Engineer : Takahiro Suzuki



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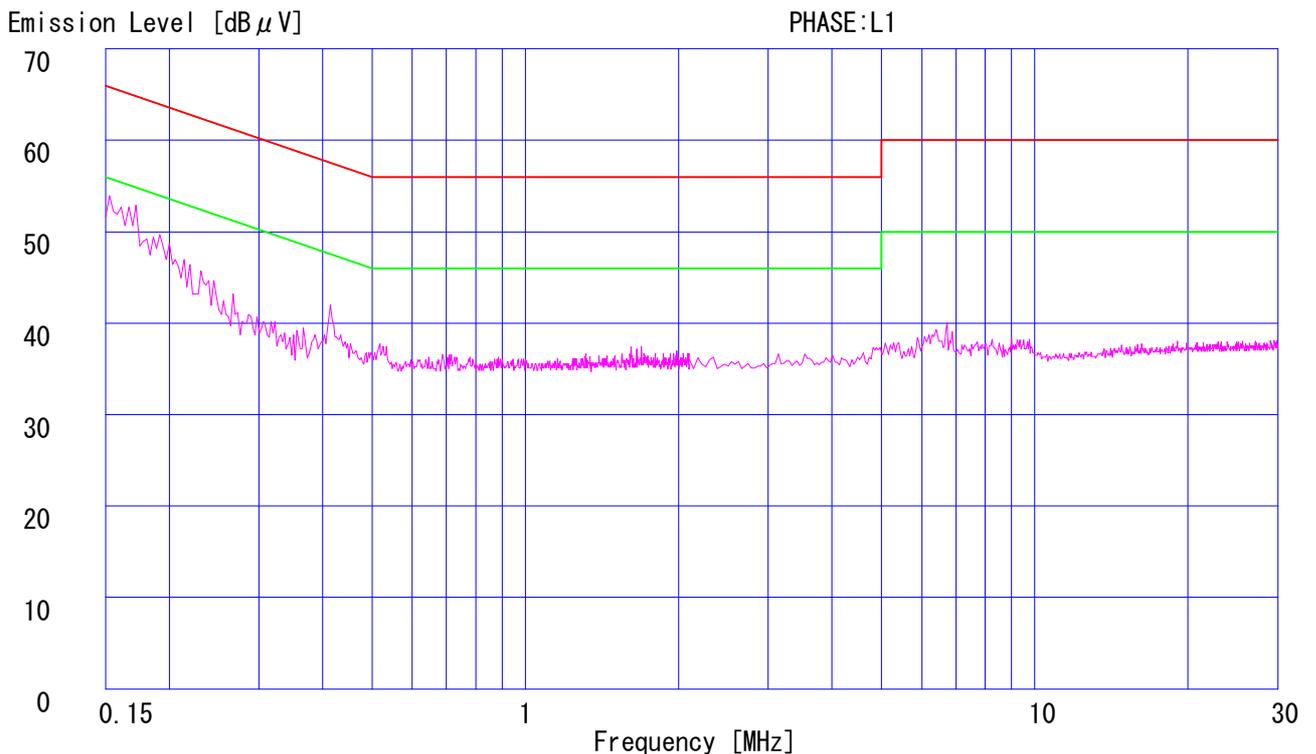
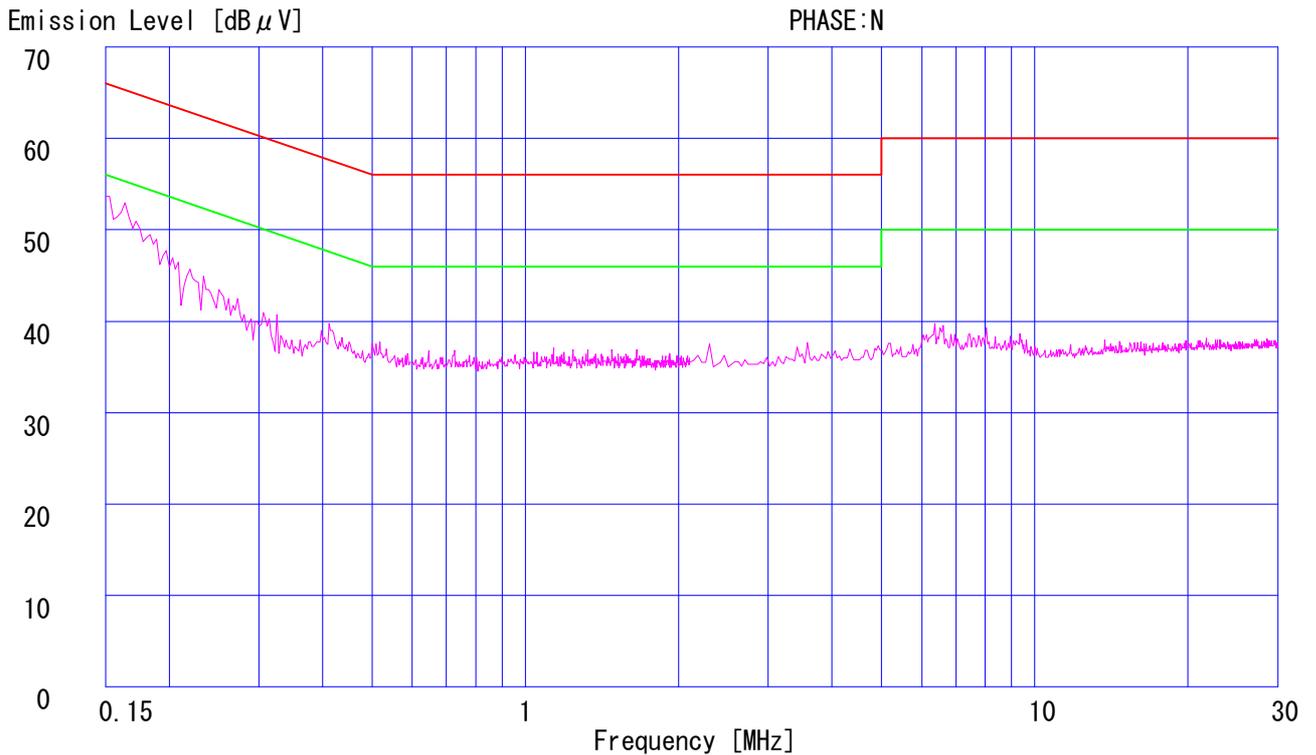
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Limit 2 : None

Engineer : Takahiro Suzuki



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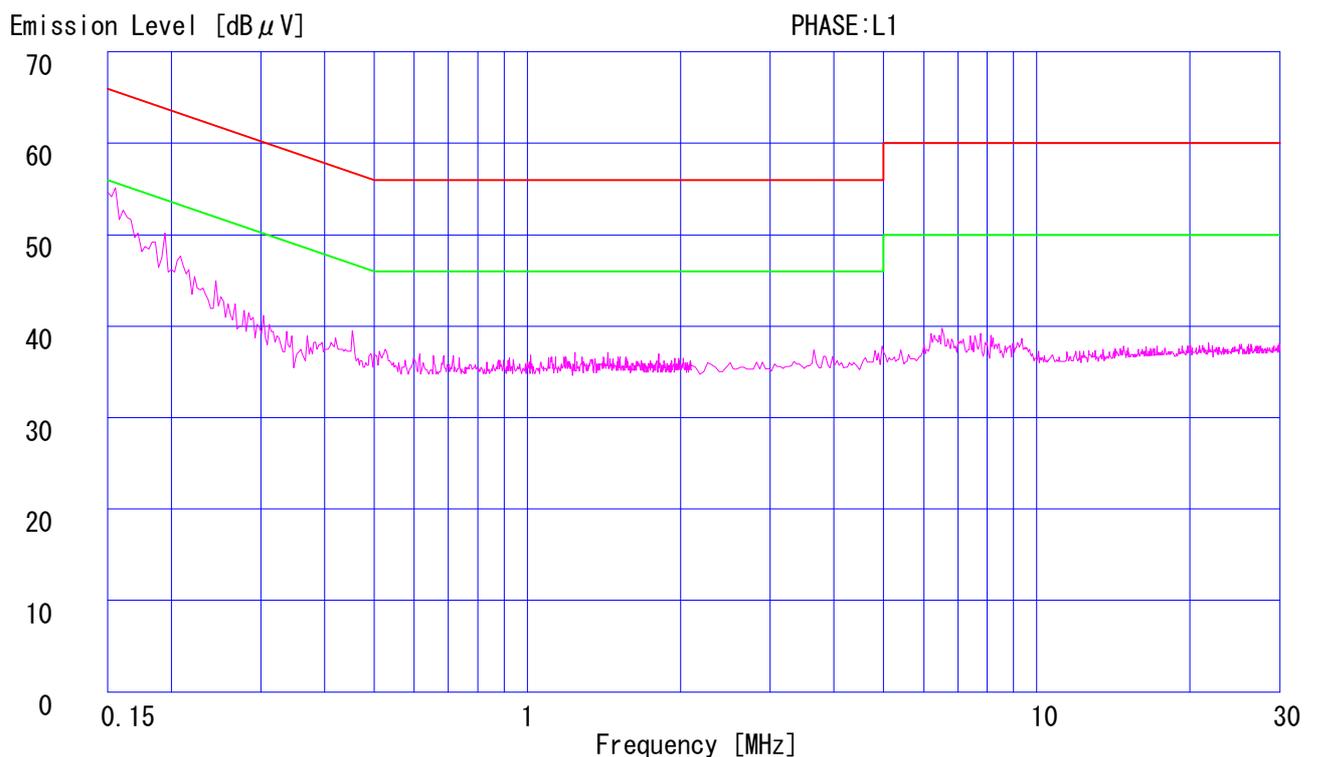
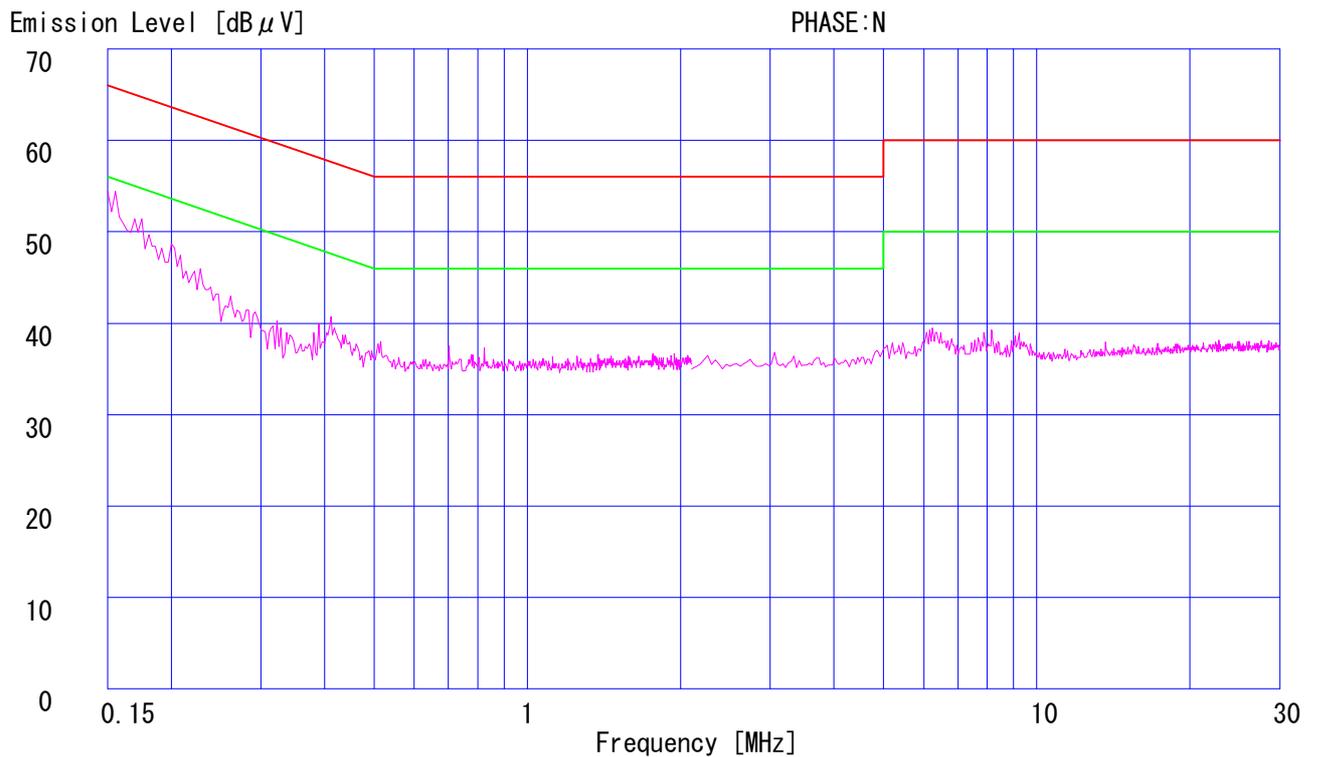
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Remarks : -
Date : 7/12/2010
Phase : Single Phase
Temperature : 22 °C
Humidity : 63 %
Limit 1 : FCC Part15C § 15.207. (CISPR Pub.22)
Limit 2 : None

Engineer : Takahiro Suzuki



6dB Bandwidth (Regulation: FCC 15.247(a)(2))

UL Japan, Inc. Yamakita EMC lab.	No.2 shielded room
Date:	2010/4/21
Temp./Humid.:	21 deg. C. / 34 %
Engineer:	Akira Sato
Test mode:	Transmitting, IEEE802.11b, 11Mbps / IEEE802.11g, 36Mbps
Remarks:	-

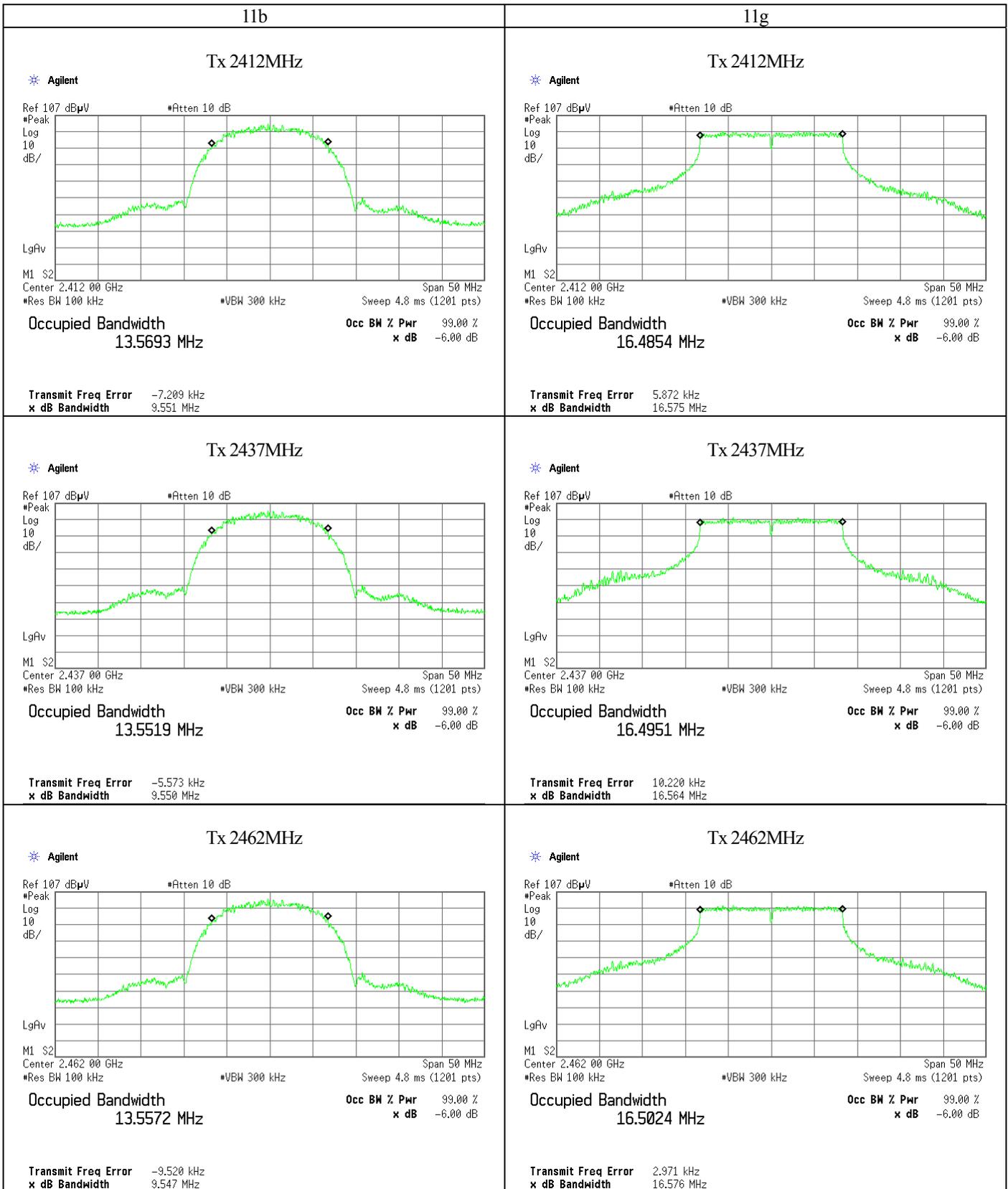
11b

Frequency [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
2412	9.551	>500
2437	9.550	>500
2462	9.547	>500

11g

Frequency [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
2412	16.575	>500
2437	16.564	>500
2462	16.576	>500

6dB Bandwidth (Regulation: FCC 15.247(a)(2))



Maximum Peak Conducted Output Power (Regulation: FCC 15.247(b)(3))

UL Japan, Inc. Yamakita EMC lab.
No.2 Shielded Room

Date: 2010/4/21
Temp./Humid.: 21 deg.C / 34 %
Test mode: Transmitting
IEEE802.11b, 11Mbps
Engineer: Akira Sato
Remarks: -

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2412.0	6.94	1.00	10.03	17.97	62.66	30.00	1000	12.03
Mid	2437.0	7.22	1.00	10.03	18.25	66.83	30.00	1000	11.75
High	2462.0	7.55	1.00	10.03	18.58	72.11	30.00	1000	11.42

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.

[Pre check]

Data Rate [Mbps]	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
1	2437.0	7.17	1.00	10.03	18.20	66.07	30.00	1000	11.80
2	2437.0	6.91	1.00	10.03	17.94	62.23	30.00	1000	12.06
5.5	2437.0	6.67	1.00	10.03	17.70	58.88	30.00	1000	12.30
11	2437.0	7.22	1.00	10.03	18.25	66.83	30.00	1000	11.75

Maximum Peak Conducted Output Power (Regulation: FCC 15.247(b)(3))

UL Japan, Inc. Yamakita EMC lab.
No.2 Shielded Room

Date: 2010/4/21
Temp./Humid.: 21 deg.C / 34 %
Test mode: Transmitting
IEEE802.11g, 36Mbps
Engineer: Akira Sato
Remarks: -

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2412.0	11.51	1.00	10.03	22.54	179.47	30.00	1000	7.46
Mid	2437.0	11.89	1.00	10.03	22.92	195.88	30.00	1000	7.08
High	2462.0	12.16	1.00	10.03	23.19	208.45	30.00	1000	6.81

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.

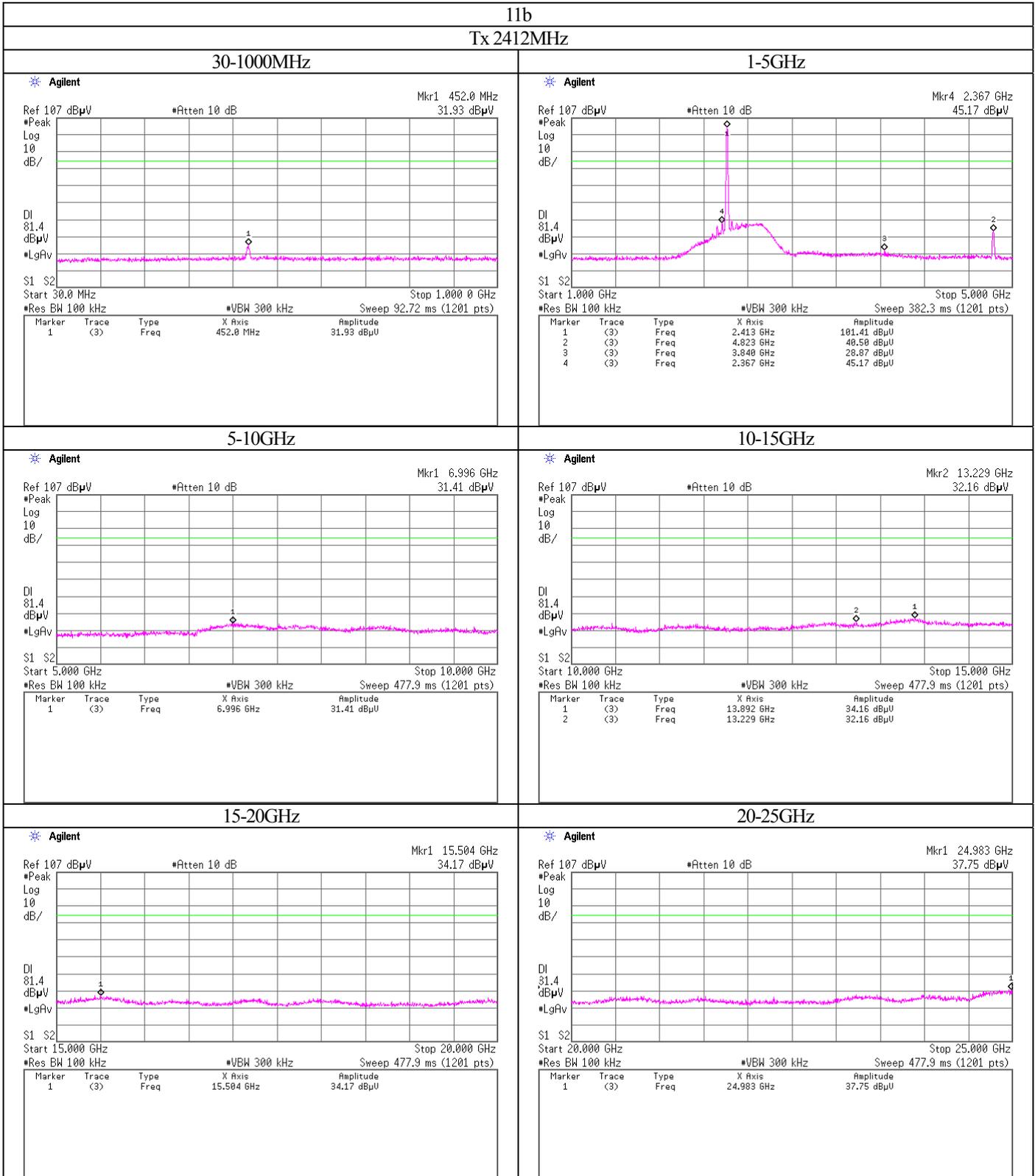
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[Pre check]

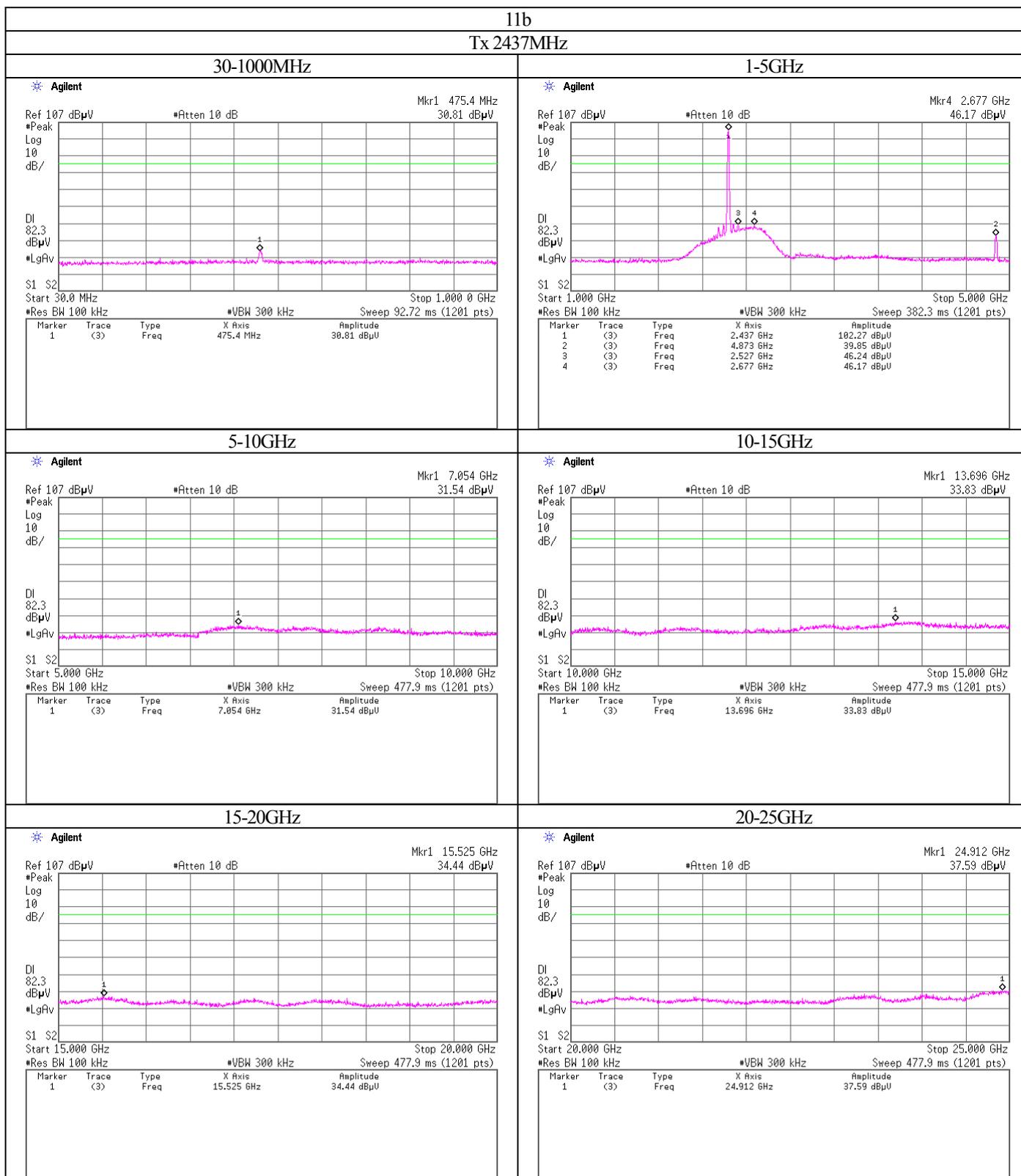
Data Rate [Mbps]	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
6	2437.0	11.74	1.00	10.03	22.77	189.23	30.00	1000	7.23
9	2437.0	11.60	1.00	10.03	22.63	183.23	30.00	1000	7.37
12	2437.0	11.52	1.00	10.03	22.55	179.89	30.00	1000	7.45
18	2437.0	11.65	1.00	10.03	22.68	185.35	30.00	1000	7.32
24	2437.0	11.85	1.00	10.03	22.88	194.09	30.00	1000	7.12
36	2437.0	11.89	1.00	10.03	22.92	195.88	30.00	1000	7.08
48	2437.0	11.70	1.00	10.03	22.73	187.50	30.00	1000	7.27
54	2437.0	11.51	1.00	10.03	22.54	179.47	30.00	1000	7.46

Out of Band Emission (Antenna Terminal Conducted) (Regulation: FCC 15.247(d))

UL Japan, Inc. Yamakita EMC lab. No.2 shielded room
 Date: 2010/4/21
 Temp/Humid: 21 deg. C. / 34 %
 Engineer: Akira Sato
 Test mode: Transmitting, IEEE802.11b, 11Mbps
 Remarks: -



Out of Band Emission (Antenna Terminal Conducted) (Regulation: FCC 15.247(d))



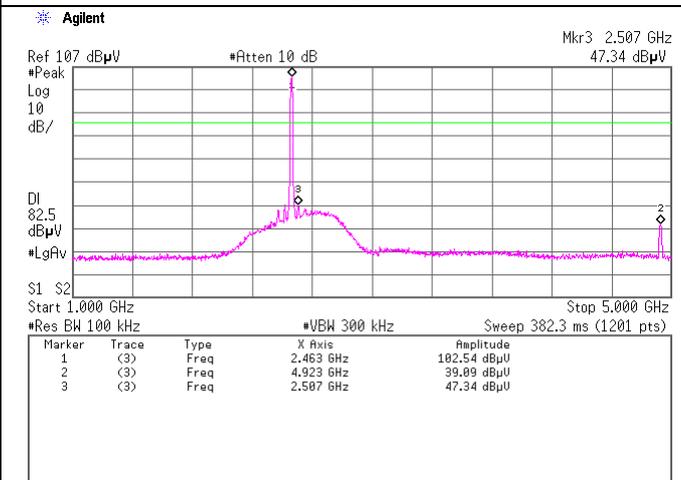
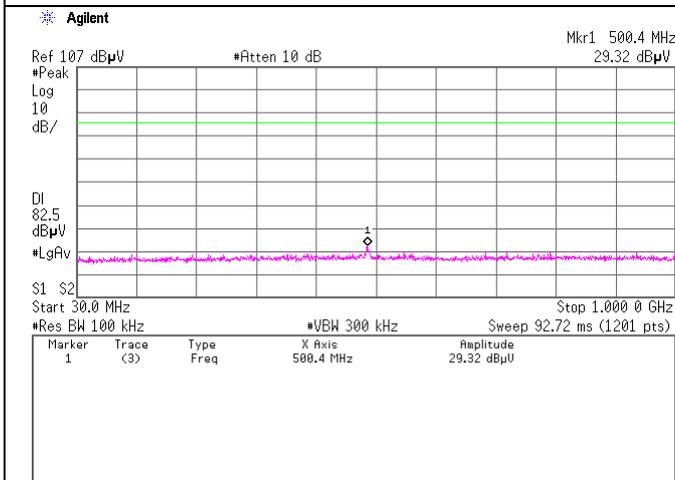
Out of Band Emission (Antenna Terminal Conducted) (Regulation: FCC 15.247(d))

11b

Tx 2462MHz

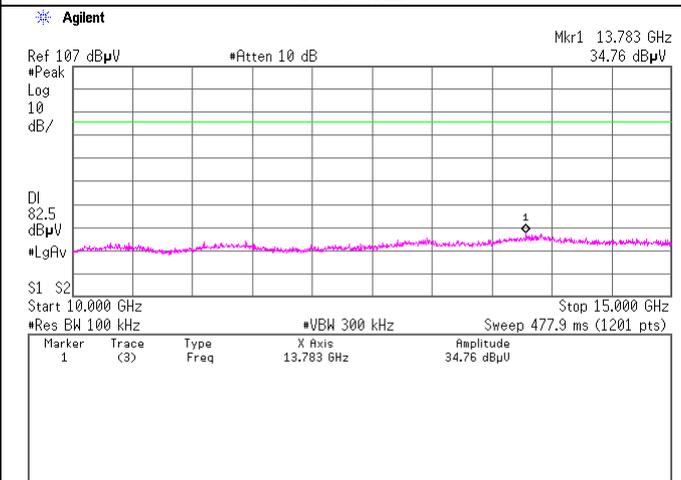
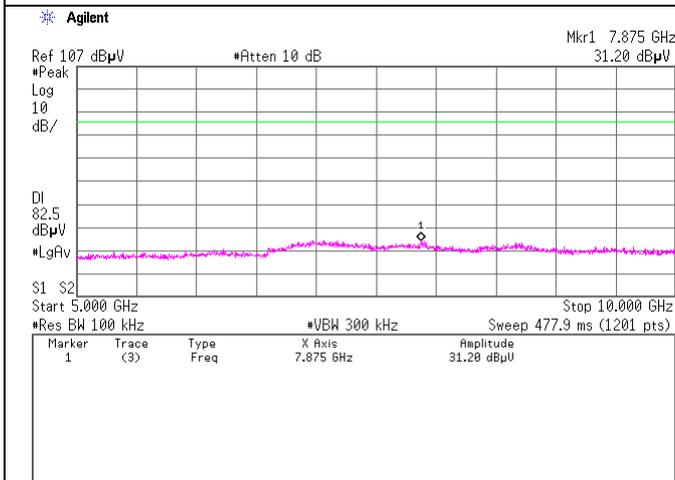
30-1000MHz

1-5GHz



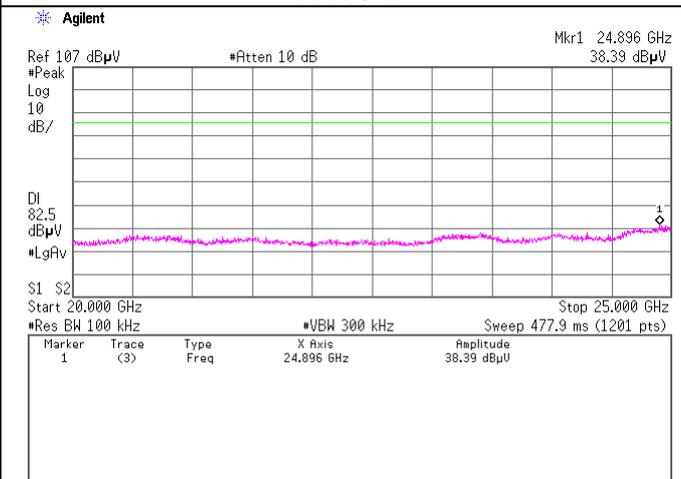
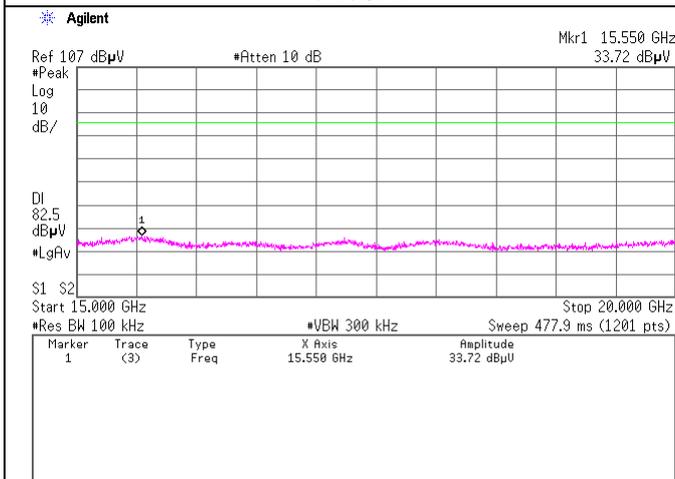
5-10GHz

10-15GHz

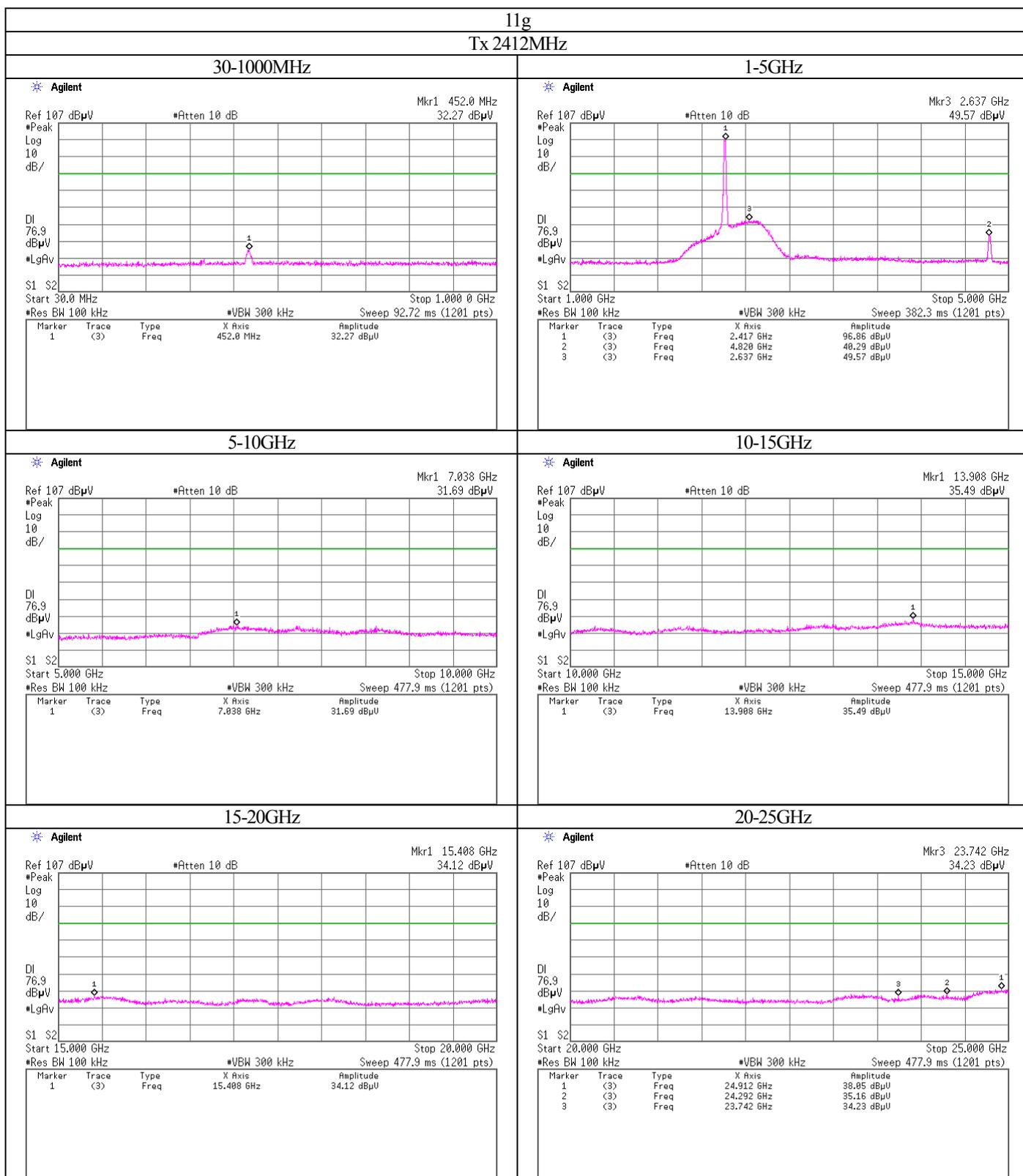


15-20GHz

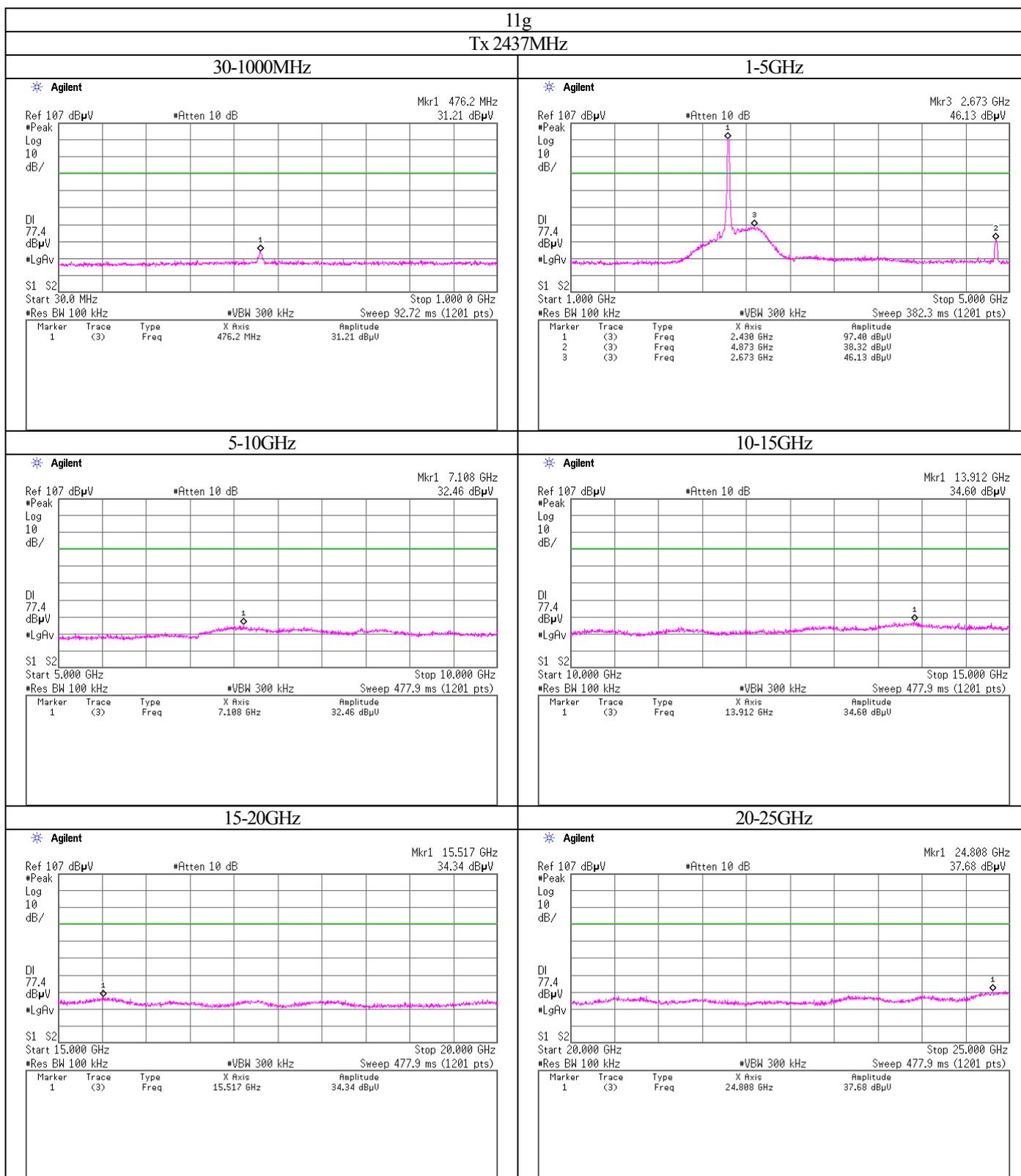
20-25GHz



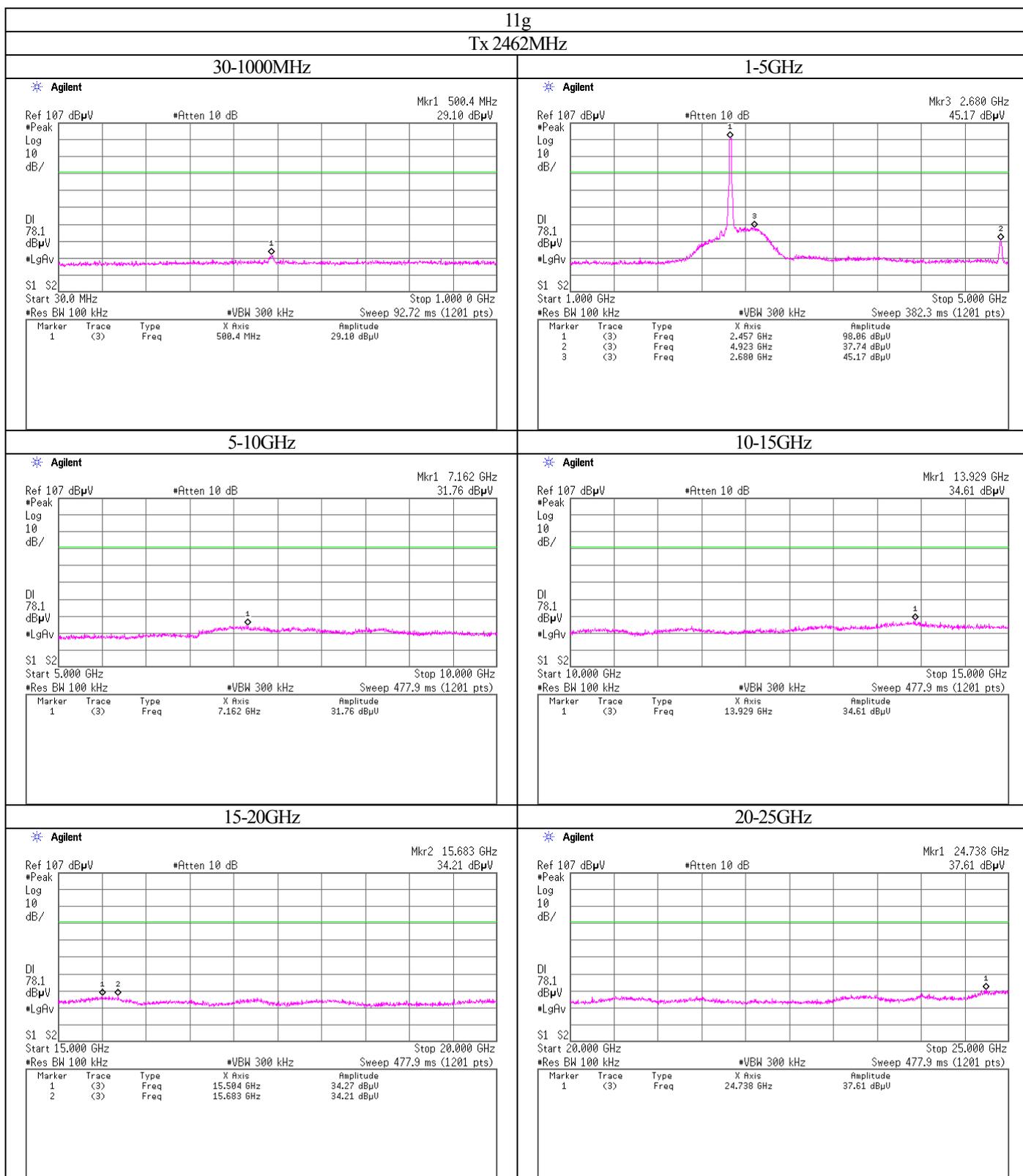
Out of Band Emission (Antenna Terminal Conducted) (Regulation: FCC 15.247(d))



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Out of Band Emission (Antenna Terminal Conducted) (Regulation: FCC 15.247(d))



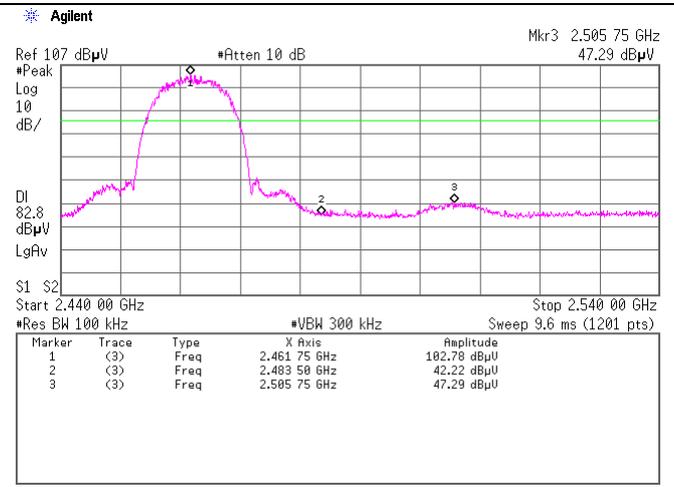
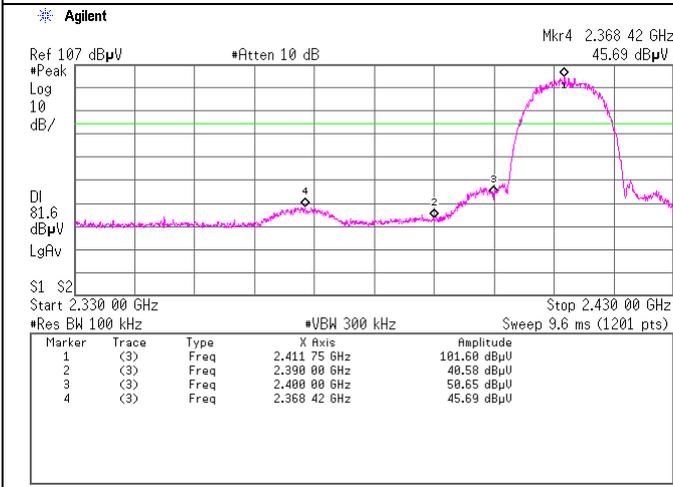
Out of Band Emission (Antenna Terminal Conducted) (Regulation: FCC 15.247(d))

Band edge compliance

11b

Tx 2412MHz

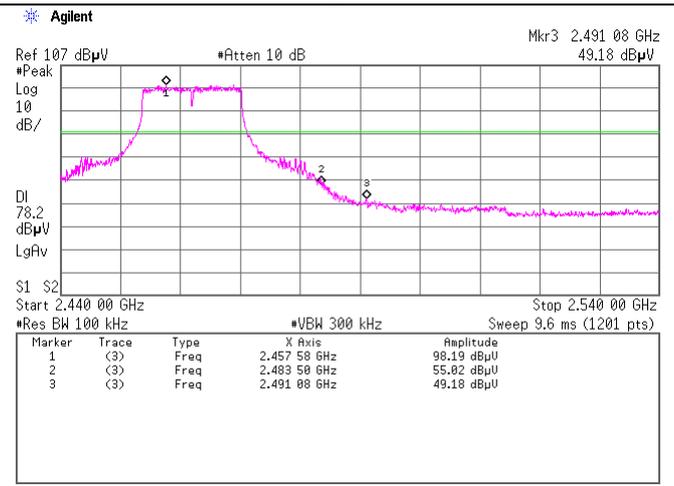
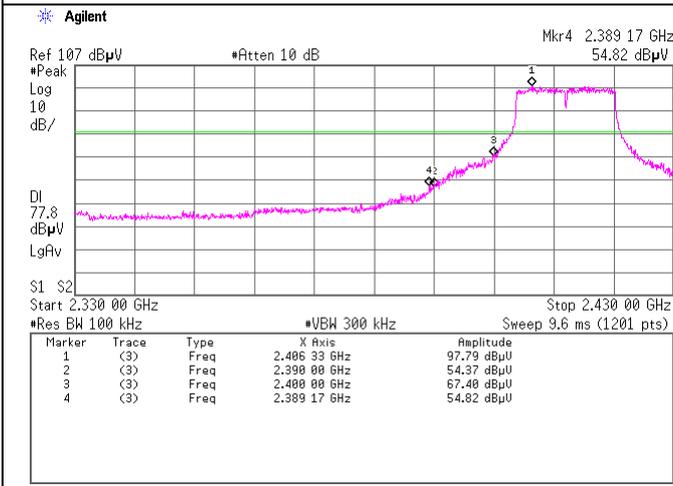
Tx 2462MHz



11g

Tx 2412MHz

Tx 2462MHz



Data of Radiated Disturbance Test

UL Japan, Inc.

YAMAKITA No.1 Semi-anechoic chamber

Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 81
 Power : AC120V/60Hz
 Mode : Transmitting (11b 2412MHz)
 Remarks : -
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 42 %
 Regulation : FCC Part15C § 15.209

Engineer : Yasumasa Owaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB μ V/m]	VER	HOR [dB]	VER
1.	86.03	BB	33.5	46.1	7.5	28.6	1.9	6.1	20.4	33.0	40.0	19.6	7.0	
2.	98.32	BB	38.1	47.8	9.9	28.4	2.1	6.1	27.8	37.5	43.5	15.7	6.0	
3.	152.42	BB	36.4	41.2	15.1	28.3	2.7	6.0	31.9	36.7	43.5	11.6	6.8	
4.	158.07	BB	32.6	39.7	15.4	28.2	2.8	6.0	28.6	35.7	43.5	14.9	7.8	
5.	250.01	BB	35.4	38.0	17.6	27.7	3.6	6.0	34.9	37.5	46.0	11.1	8.5	
6.	318.94	BB	44.2	38.8	15.2	27.7	4.2	3.0	38.9	33.5	46.0	7.1	12.5	
7.	496.75	BB	38.0	40.2	17.8	29.1	5.9	3.0	35.6	37.8	46.0	10.4	8.2	
8.	960.05	BB	43.8	36.0	23.0	28.7	8.0	3.0	49.1	41.3	54.0	4.9	12.7	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table : adequate margin data below the limits.

■ ANT:KBA-03 (<300MHz)/KLA-03 ■ AMP:KAF-05 ■ RECEIVER:MTR-06

** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.

YAMAKITA No.1 Semi-anechoic chamber

Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 81
 Power : AC120V/60Hz
 Mode : Transmitting (11b 2437MHz)
 Remarks : -
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 42 %
 Regulation : FCC Part15C § 15. 209

Engineer : Yasumasa Owaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	86.03	BB	33.6	45.6	7.5	28.6	1.9	6.1	20.5	32.5	40.0	19.5	7.5	
2.	98.32	BB	37.8	47.4	9.9	28.4	2.1	6.1	27.5	37.1	43.5	16.0	6.4	
3.	152.42	BB	36.7	42.0	15.1	28.3	2.7	6.0	32.2	37.5	43.5	11.3	6.0	
4.	158.07	BB	32.6	39.3	15.4	28.2	2.8	6.0	28.6	35.3	43.5	14.9	8.2	
5.	250.01	BB	35.4	37.2	17.6	27.7	3.6	6.0	34.9	36.7	46.0	11.1	9.3	
6.	318.94	BB	44.2	38.9	15.2	27.7	4.2	3.0	38.9	33.6	46.0	7.1	12.4	
7.	496.75	BB	37.2	40.2	17.8	29.1	5.9	3.0	34.8	37.8	46.0	11.2	8.2	
8.	960.05	BB	44.1	36.3	23.0	28.7	8.0	3.0	49.4	41.6	54.0	4.6	12.4	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

Except for the above table : adequate margin data below the limits.

■ ANT:KBA-03 (<300MHz)/KLA-03 ■ AMP:KAF-05 ■ RECEIVER:MTR-06

** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.

YAMAKITA No.1 Semi-anechoic chamber

Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 81
 Power : AC120V/60Hz
 Mode : Transmitting (11b 2462MHz)
 Remarks : -
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 42 %
 Regulation : FCC Part15C § 15. 209

Engineer : Yasumasa Owaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB μ V/m]	VER	HOR [dB]	VER
1.	86.03	BB	33.3	45.5	7.5	28.6	1.9	6.1	20.2	32.4	40.0	19.8	7.6	
2.	98.32	BB	38.0	47.3	9.9	28.4	2.1	6.1	27.7	37.0	43.5	15.8	6.5	
3.	152.42	BB	36.5	42.2	15.1	28.3	2.7	6.0	32.0	37.7	43.5	11.5	5.8	
4.	158.07	BB	32.3	39.2	15.4	28.2	2.8	6.0	28.3	35.2	43.5	15.2	8.3	
5.	250.01	BB	35.4	37.3	17.6	27.7	3.6	6.0	34.9	36.8	46.0	11.1	9.2	
6.	318.94	BB	44.2	38.9	15.2	27.7	4.2	3.0	38.9	33.6	46.0	7.1	12.4	
7.	496.75	BB	37.2	40.3	17.8	29.1	5.9	3.0	34.8	37.9	46.0	11.2	8.1	
8.	960.05	BB	44.1	36.3	23.0	28.7	8.0	3.0	49.4	41.6	54.0	4.6	12.4	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KBA-03 (<300MHz)/KLA-03 ■ AMP:KAF-05 ■ RECEIVER:MTR-06
 **: enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 81
 Power : AC120V/60Hz
 Mode : Transmitting (11g 2412MHz)
 Remarks : -
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 42 %
 Regulation : FCC Part15C § 15. 209

Engineer : Yasumasa Owaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	86.03	BB	33.6	45.5	7.5	28.6	1.9	6.1	20.5	32.4	40.0	19.5	7.6	
2.	98.32	BB	37.7	47.2	9.9	28.4	2.1	6.1	27.4	36.9	43.5	16.1	6.6	
3.	152.42	BB	36.8	42.1	15.1	28.3	2.7	6.0	32.3	37.6	43.5	11.2	5.9	
4.	158.07	BB	31.2	37.8	15.4	28.2	2.8	6.0	27.2	33.8	43.5	16.3	9.7	
5.	250.01	BB	35.6	37.4	17.6	27.7	3.6	6.0	35.1	36.9	46.0	10.9	9.1	
6.	318.94	BB	44.1	38.9	15.2	27.7	4.2	3.0	38.8	33.6	46.0	7.2	12.4	
7.	496.75	BB	37.2	40.2	17.8	29.1	5.9	3.0	34.8	37.8	46.0	11.2	8.2	
8.	960.05	BB	44.0	36.3	23.0	28.7	8.0	3.0	49.3	41.6	54.0	4.7	12.4	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KBA-03 (<300MHz)/KLA-03 ■ AMP:KAF-05 ■ RECEIVER:MTR-06
 ** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 81
 Power : AC120V/60Hz
 Mode : Transmitting (11g 2437MHz)
 Remarks : -
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 42 %
 Regulation : FCC Part15C § 15.209

Engineer : Yasumasa Owaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB μ V/m]	VER	HOR [dB]	VER
1.	86.03	BB	33.6	45.9	7.5	28.6	1.9	6.1	20.5	32.8	40.0	19.5	7.2	
2.	98.32	BB	37.6	47.1	9.9	28.4	2.1	6.1	27.3	36.8	43.5	16.2	6.7	
3.	152.42	BB	36.7	42.0	15.1	28.3	2.7	6.0	32.2	37.5	43.5	11.3	6.0	
4.	158.07	BB	31.7	37.9	15.4	28.2	2.8	6.0	27.7	33.9	43.5	15.8	9.6	
5.	250.01	BB	35.6	37.4	17.6	27.7	3.6	6.0	35.1	36.9	46.0	10.9	9.1	
6.	318.94	BB	44.1	38.8	15.2	27.7	4.2	3.0	38.8	33.5	46.0	7.2	12.5	
7.	496.75	BB	37.1	39.9	17.8	29.1	5.9	3.0	34.7	37.5	46.0	11.3	8.5	
8.	960.05	BB	43.8	36.1	23.0	28.7	8.0	3.0	49.1	41.4	54.0	4.9	12.6	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KBA-03 (<300MHz)/KLA-03 ■ AMP:KAF-05 ■ RECEIVER:MTR-06
 **: enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 81
 Power : AC120V/60Hz
 Mode : Transmitting (11g 2462MHz)
 Remarks : -
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 42 %
 Regulation : FCC Part15C § 15.209

Engineer : Yasumasa Owaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	86.03	BB	33.6	45.4	7.5	28.6	1.9	6.1	20.5	32.3	40.0	19.5	7.7	
2.	98.32	BB	37.6	46.9	9.9	28.4	2.1	6.1	27.3	36.6	43.5	16.2	6.9	
3.	152.42	BB	36.9	42.1	15.1	28.3	2.7	6.0	32.4	37.6	43.5	11.1	5.9	
4.	158.07	BB	31.4	38.4	15.4	28.2	2.8	6.0	27.4	34.4	43.5	16.1	9.1	
5.	250.01	BB	35.7	37.5	17.6	27.7	3.6	6.0	35.2	37.0	46.0	10.8	9.0	
6.	318.94	BB	44.1	38.9	15.2	27.7	4.2	3.0	38.8	33.6	46.0	7.2	12.4	
7.	496.75	BB	37.2	40.0	17.8	29.1	5.9	3.0	34.8	37.6	46.0	11.2	8.4	
8.	960.05	BB	44.0	36.4	23.0	28.7	8.0	3.0	49.3	41.7	54.0	4.7	12.3	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KBA-03 (<300MHz)/KLA-03 ■ AMP:KAF-05 ■ RECEIVER:MTR-06
 ** : enough margin compared to another polarized wave data.

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 15
 Power : AC120V/60Hz
 Mode : Transmitting (11b 2412MHz)
 Remarks : PK (RBW:1MHz, VBW:3MHz)
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 46 %
 Regulation : FCC Part15C § 15.209(PK Detection)

Engineer : Minoru Nakatake

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	2390.00	BB	46.5	46.0	28.0	36.5	4.2	9.9	52.1	51.6	74.0	21.9	22.4	
2.	4824.00	BB	42.1	42.0	32.2	36.2	5.9	0.0	44.0	43.9	74.0	30.0	30.1	
3.	7236.00	BB	42.3	42.2	36.7	36.2	7.3	0.3	50.4	50.3	74.0	23.6	23.7	
4.	9648.00	BB	45.3	45.4	38.8	36.3	8.6	0.8	57.2	57.3	74.0	16.8	16.7	
5.	12060.00	BB	44.3	44.6	38.8	35.5	9.6	0.2	57.4	57.7	74.0	16.6	16.3	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KHA-02 ■ CABLE:KCC-D24/D25 ■ AMP:KAF-02 ■ SPECTRUM ANALYZER:KSA-04

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 15
 Power : AC120V/60Hz
 Mode : Transmitting (11b 2412MHz)
 Remarks : AV (RBW:1MHz, VBW:10Hz)
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 46 %
 Regulation : FCC Part15C § 15. 209 (AV Detection)
 Engineer : Minoru Nakatake

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	2390.00	BB	36.5	35.8	28.0	36.5	4.2	9.9	42.1	41.4	54.0	11.9	12.6	
2.	4824.00	BB	30.7	30.8	32.2	36.2	5.9	0.0	32.6	32.7	54.0	21.4	21.3	
3.	7236.00	BB	30.3	30.0	36.7	36.2	7.3	0.3	38.4	38.1	54.0	15.6	15.9	
4.	9648.00	BB	30.6	30.8	38.8	36.3	8.6	0.8	42.5	42.7	54.0	11.5	11.3	
5.	12060.00	BB	31.9	32.2	38.8	35.5	9.6	0.2	45.0	45.3	54.0	9.0	8.7	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KHA-02 ■ CABLE:KCC-D24/D25 ■ AMP:KAF-02 ■ SPECTRUM ANALYZER:KSA-04

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30IE0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 15
 Power : AC120V/60Hz
 Mode : Transmitting (11b 2437MHz)
 Remarks : PK (RBW:1MHz, VBW:3MHz)
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C Engineer : Minoru Nakatake
 Humidity : 46 %
 Regulation : FCC Part15C § 15.209(PK Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	4874.00	BB	42.3	42.5	32.2	36.2	6.0	0.5	44.8	45.0	74.0	29.2	29.0	
2.	7311.00	BB	42.3	42.8	36.9	36.3	7.4	0.4	50.7	51.2	74.0	23.3	22.8	
3.	9748.00	BB	46.0	45.8	38.9	36.3	8.6	0.7	57.9	57.7	74.0	16.1	16.3	
4.	12185.00	BB	44.5	44.6	39.0	35.3	9.6	0.3	58.1	58.2	74.0	15.9	15.8	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT : KHA-02 ■ CABLE : KCC-D24/D25 ■ AMP : KAF-02 ■ SPECTRUM ANALYZER : KSA-04

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 15
 Power : AC120V/60Hz
 Mode : Transmitting (11b 2437MHz)
 Remarks : AV (RBW:1MHz, VBW:10Hz)
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C Engineer : Minoru Nakatake
 Humidity : 46 %
 Regulation : FCC Part15C § 15. 209(AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	4874.00	BB	40.4	30.7	32.2	36.2	6.0	0.5	42.9	33.2	54.0	11.1	20.8	
2.	7311.00	BB	30.1	30.1	36.9	36.3	7.4	0.4	38.5	38.5	54.0	15.5	15.5	
3.	9748.00	BB	30.2	30.2	38.9	36.3	8.6	0.7	42.1	42.1	54.0	11.9	11.9	
4.	12185.00	BB	32.2	32.2	39.0	35.3	9.6	0.3	45.8	45.8	54.0	8.2	8.2	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT : KHA-02 ■ CABLE : KCC-D24/D25 ■ AMP : KAF-02 ■ SPECTRUM ANALYZER : KSA-04

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 15
 Power : AC120V/60Hz
 Mode : Transmitting (11b 2462MHz)
 Remarks : PK (RBW:1MHz, VBW:3MHz)
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C Engineer : Minoru Nakatake
 Humidity : 46 %
 Regulation : FCC Part15C § 15.209(PK Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	2483.50	BB	45.3	44.1	28.0	36.5	4.2	9.9	50.9	49.7	74.0	23.1	24.3	
2.	4924.00	BB	42.4	42.5	32.2	36.1	6.0	0.5	45.0	45.1	74.0	29.0	28.9	
3.	7386.00	BB	41.9	42.3	37.1	36.3	7.4	0.4	50.5	50.9	74.0	23.5	23.1	
4.	9848.00	BB	45.9	45.4	39.0	36.2	8.6	0.7	58.0	57.5	74.0	16.0	16.5	
5.	12310.00	BB	44.3	44.5	39.2	35.0	9.7	0.4	58.6	58.8	74.0	15.4	15.2	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KHA-02 ■ CABLE:KCC-D24/D25 ■ AMP:KAF-02 ■ SPECTRUM ANALYZER:KSA-04

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 15
 Power : AC120V/60Hz
 Mode : Transmitting (11b 2462MHz)
 Remarks : AV (RBW:1MHz, VBW:10Hz)
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C Engineer : Minoru Nakatake
 Humidity : 46 %
 Regulation : FCC Part15C § 15.209(AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	2483.50	BB	36.2	34.6	28.0	36.5	4.2	9.9	41.8	40.2	54.0	12.2	13.8	
2.	4924.00	BB	30.3	30.5	32.2	36.1	6.0	0.5	32.9	33.1	54.0	21.1	20.9	
3.	7386.00	BB	30.5	30.0	37.1	36.3	7.4	0.4	39.1	38.6	54.0	14.9	15.4	
4.	9848.00	BB	30.3	30.2	39.0	36.2	8.6	0.7	42.4	42.3	54.0	11.6	11.7	
5.	12310.00	BB	32.2	32.3	39.2	35.0	9.7	0.4	46.5	46.6	54.0	7.5	7.4	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KHA-02 ■ CABLE:KCC-D24/D25 ■ AMP:KAF-02 ■ SPECTRUM ANALYZER:KSA-04

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 15
 Power : AC120V/60Hz
 Mode : Transmitting (11g 2412MHz)
 Remarks : PK (RBW:1MHz, VBW:3MHz)
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 46 %
 Regulation : FCC Part15C § 15. 209(PK Detection)
 Engineer : Minoru Nakatake

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	2390.00	BB	45.7	56.8	28.0	36.5	4.2	9.9	51.3	62.4	74.0	22.7	11.6	
2.	4824.00	BB	42.5	42.6	32.2	36.2	5.9	0.5	44.9	45.0	74.0	29.1	29.0	
3.	7236.00	BB	42.1	42.1	36.7	36.2	7.3	0.3	50.2	50.2	74.0	23.8	23.8	
4.	9648.00	BB	45.2	45.8	38.8	36.3	8.6	0.8	57.1	57.7	74.0	16.9	16.3	
5.	12060.00	BB	45.0	45.1	38.8	35.5	9.6	0.2	58.1	58.2	74.0	15.9	15.8	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KHA-02 ■ CABLE:KCC-D24/D25 ■ AMP:KAF-02 ■ SPECTRUM ANALYZER:KSA-04

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 15
 Power : AC120V/60Hz
 Mode : Transmitting (11g 2412MHz)
 Remarks : AV (RBW:1MHz, VBW:10Hz)
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C Engineer : Minoru Nakatake
 Humidity : 46 %
 Regulation : FCC Part15C § 15. 209 (AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	2390.00	BB	45.0	44.8	28.0	36.5	4.2	9.9	50.6	50.4	54.0	3.4	3.6	
2.	4824.00	BB	30.5	30.7	32.2	36.2	5.9	0.5	32.9	33.1	54.0	21.1	20.9	
3.	7236.00	BB	30.5	30.5	36.7	36.2	7.3	0.3	38.6	38.6	54.0	15.4	15.4	
4.	9648.00	BB	30.8	30.9	38.8	36.3	8.6	0.8	42.7	42.8	54.0	11.3	11.2	
5.	12060.00	BB	32.3	32.4	38.8	35.5	9.6	0.2	45.4	45.5	54.0	8.6	8.5	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KHA-02 ■ CABLE:KCC-D24/D25 ■ AMP:KAF-02 ■ SPECTRUM ANALYZER:KSA-04

Data of Radiated Disturbance Test

UL Japan, Inc.

YAMAKITA No.1 Semi-anechoic chamber

Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 15
 Power : AC120V/60Hz
 Mode : Transmitting (11g 2437MHz)
 Remarks : PK (RBW:1MHz, VBW:3MHz)
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 46 %
 Regulation : FCC Part15C § 15. 209(PK Detection)

Engineer : Minoru Nakatake

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	4874.00	BB	42.6	42.6	32.2	36.2	6.0	0.5	45.1	45.1	74.0	28.9	28.9	
2.	7311.00	BB	42.1	42.2	36.9	36.3	7.4	0.4	50.5	50.6	74.0	23.5	23.4	
3.	9748.00	BB	46.3	45.8	38.9	36.3	8.6	0.7	58.2	57.7	74.0	15.8	16.3	
4.	12185.00	BB	44.9	44.8	39.0	35.3	9.6	0.3	58.5	58.4	74.0	15.5	15.6	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT : KHA-02 ■ CABLE : KCC-D24/D25 ■ AMP : KAF-02 ■ SPECTRUM ANALYZER : KSA-04

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 30IE0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 15
 Power : AC120V/60Hz
 Mode : Transmitting (11g 2437MHz)
 Remarks : AV (RBW:1MHz, VBW:10Hz)
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C Engineer : Minoru Nakatake
 Humidity : 46 %
 Regulation : FCC Part15C § 15.209(AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	4874.00	BB	30.7	30.8	32.2	36.2	6.0	0.5	33.2	33.3	54.0	20.8	20.7	
2.	7311.00	BB	30.3	30.5	36.9	36.3	7.4	0.4	38.7	38.9	54.0	15.3	15.1	
3.	9748.00	BB	30.6	30.7	38.9	36.3	8.6	0.7	42.5	42.6	54.0	11.5	11.4	
4.	12185.00	BB	32.5	32.4	39.0	35.3	9.6	0.3	46.1	46.0	54.0	7.9	8.0	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KHA-02 ■ CABLE:KCC-D24/D25 ■ AMP:KAF-02 ■ SPECTRUM ANALYZER:KSA-04

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 15
 Power : AC120V/60Hz
 Mode : Transmitting (11g 2462MHz)
 Remarks : PK (RBW:1MHz, VBW:3MHz)
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C
 Humidity : 46 %
 Regulation : FCC Part15C § 15.209(PK Detection)

Engineer : Minoru Nakatake

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	2483.50	BB	58.0	55.0	28.0	36.5	4.2	9.9	63.6	60.6	74.0	10.4	13.4	
2.	4924.00	BB	42.4	42.4	32.2	36.1	6.0	0.5	45.0	45.0	74.0	29.0	29.0	
3.	7386.00	BB	41.8	42.3	37.1	36.3	7.4	0.4	50.4	50.9	74.0	23.6	23.1	
4.	9848.00	BB	46.0	45.9	39.0	36.2	8.6	0.7	58.1	58.0	74.0	15.9	16.0	
5.	12310.00	BB	44.9	44.3	39.2	35.0	9.7	0.4	59.2	58.6	74.0	14.8	15.4	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KHA-02 ■ CABLE:KCC-D24/D25 ■ AMP:KAF-02 ■ SPECTRUM ANALYZER:KSA-04

Data of Radiated Disturbance Test

UL Japan, Inc.
YAMAKITA No.1 Semi-anechoic chamber
Report No. : 301E0014-YK-01-B-R2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Network Audio System/Server
 Model No. : NAS-SV20i
 Serial No. : 15
 Power : AC120V/60Hz
 Mode : Transmitting (11g 2462MHz)
 Remarks : AV (RBW:1MHz, VBW:10Hz)
 Date : 4/15/2010
 Test Distance : 3 m
 Temperature : 20 °C Engineer : Minoru Nakatake
 Humidity : 46 %
 Regulation : FCC Part15C § 15. 209 (AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	2483.50	BB	45.1	42.3	28.0	36.5	4.2	9.9	50.7	47.9	54.0	3.3	6.1	
2.	4924.00	BB	30.4	30.4	32.2	36.1	6.0	0.5	33.0	33.0	54.0	21.0	21.0	
3.	7386.00	BB	29.8	30.5	37.1	36.3	7.4	0.4	38.4	39.1	54.0	15.6	14.9	
4.	9848.00	BB	30.2	30.2	39.0	36.2	8.6	0.7	42.3	42.3	54.0	11.7	11.7	
5.	12310.00	BB	32.3	32.3	39.2	35.0	9.7	0.4	46.6	46.6	54.0	7.4	7.4	

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.
 Except for the above table : adequate margin data below the limits.

■ ANT:KHA-02 ■ CABLE:KCC-D24/D25 ■ AMP:KAF-02 ■ SPECTRUM ANALYZER:KSA-04

Power Density (Regulation: FCC 15.247(e))

UL Japan, Inc. Yamakita EMC lab.
No.2 Shielded Room

Date: 2010/4/21

Temp./Humid.: 21 deg.C / 34%

Test mode: Transmitting,
IEEE802.11b, 11Mbps
/ IEEE802.11g, 36Mbps

Engineer: Akira Sato

Remarks: -

11b

Ch. Freq. [MHz]	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2412	2410.73	-10.48	1.40	10.03	0.95	8.00	7.05
2437	2435.73	-10.13	1.41	10.03	1.31	8.00	6.69
2462	2460.73	-9.15	1.41	10.03	2.29	8.00	5.71

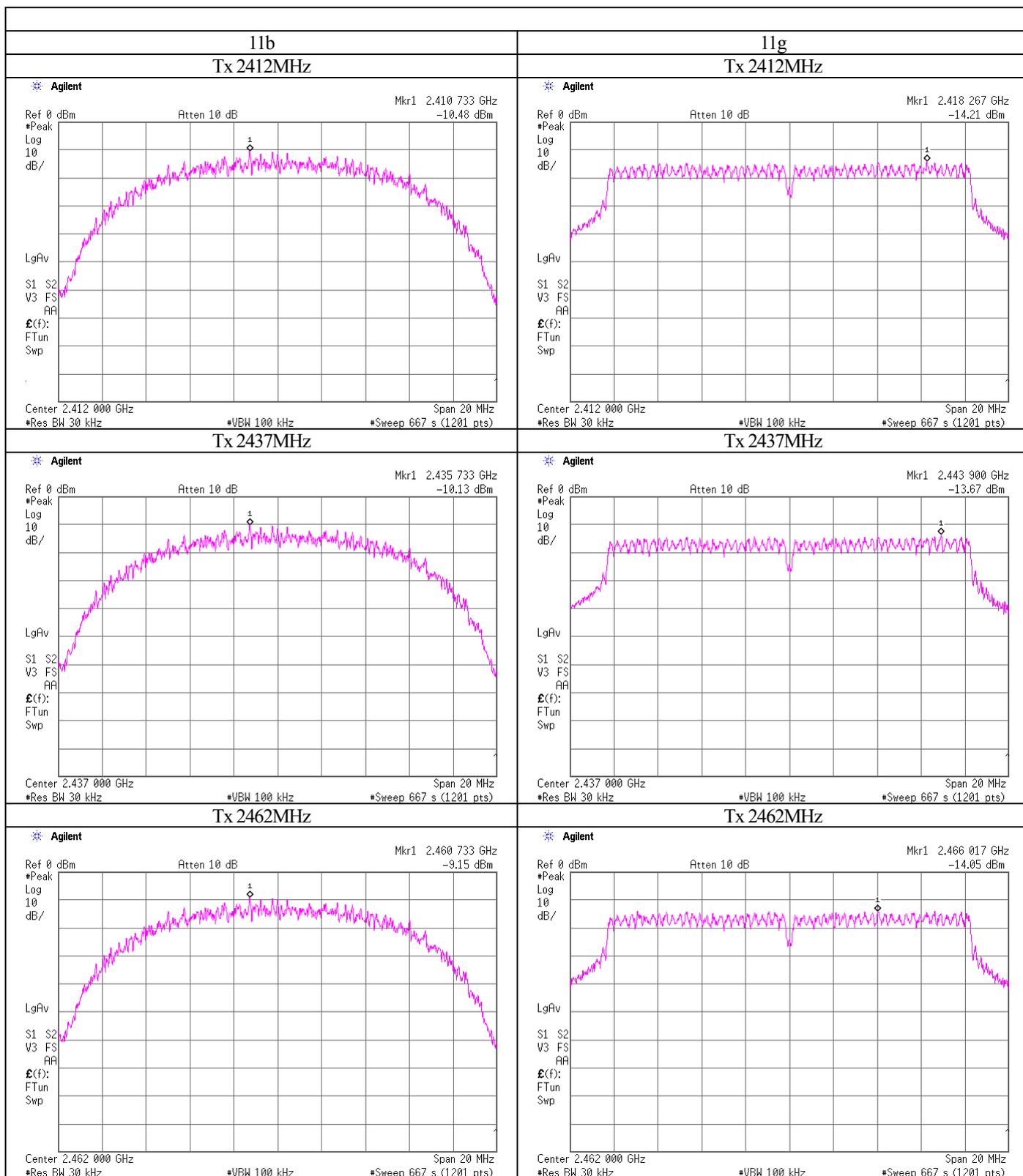
11g,

Ch. Freq. [MHz]	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2412	2418.27	-14.21	1.40	10.03	-2.78	8.00	10.78
2437	2443.90	-13.67	1.41	10.03	-2.23	8.00	10.23
2462	2466.02	-14.05	1.41	10.03	-2.61	8.00	10.61

Sample Calculation:

Result = Reading + Cable Loss (Including customer's cable loss)+ Attenuator

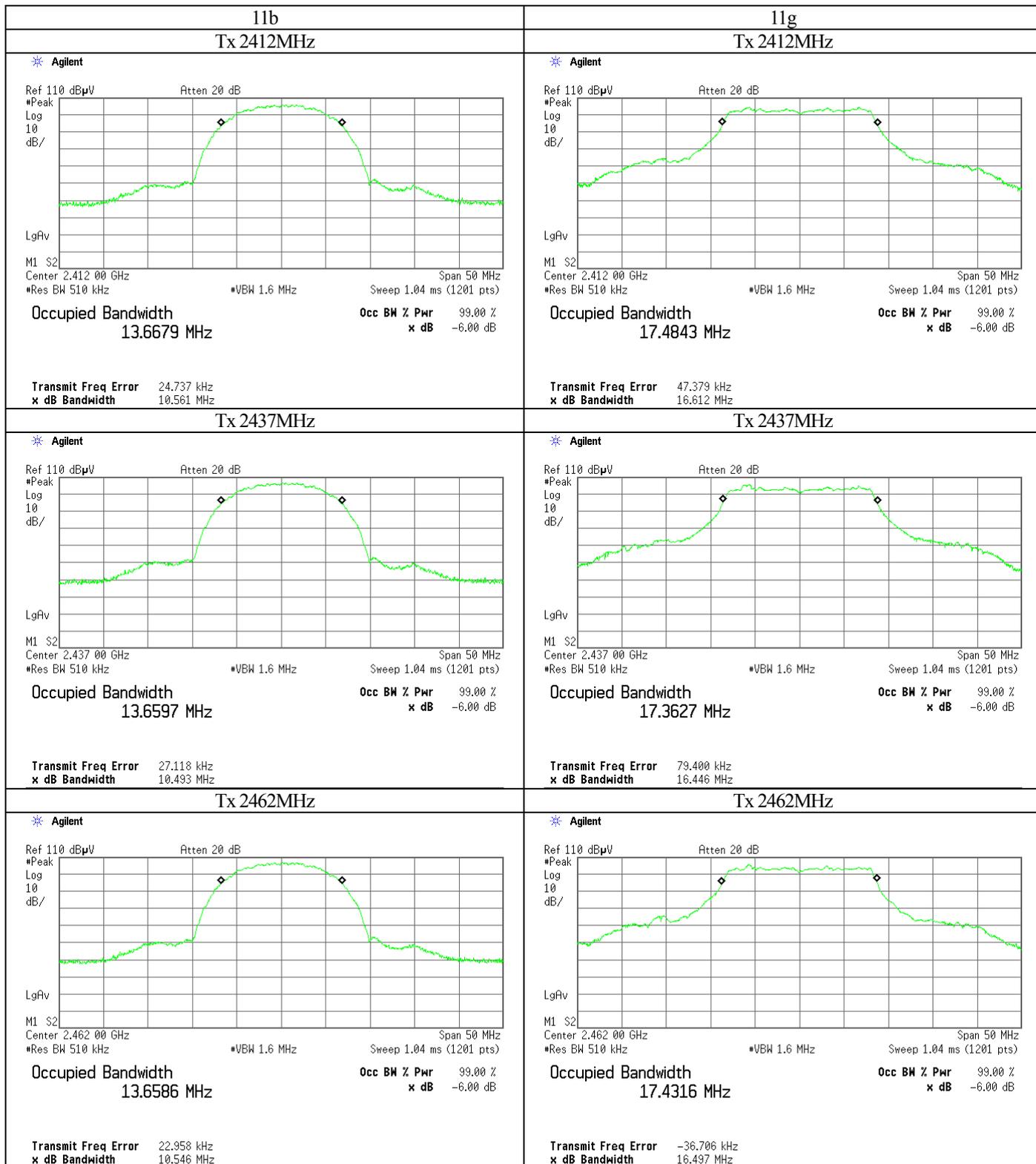
Power Density (Regulation: FCC 15.247(e))



Occupied Bandwidth (99%) (Regulation: RSS-Gen 4.6.1)

UL Japan, Inc. Yamakita EMC lab. No.2 shielded room
 Date: 2010/4/22
 Temp/Humid: 21 deg. C. / 34 %
 Engineer: Akira Sato
 Test mode: Transmitting, IEEE802.11b, 11Mbps / IEEE802.11g, 36Mbps

Remarks: -



APPENDIX 3
Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
CUST-YA-CE	Conducted emission(software)	UL Japan	CE(Ver.2.0)	-	CE	-
KLS-01	LISN(AMN)	Schwarzbeck	NSLK8126	8126354	CE (EUT)	2010/02/25 * 12
KLS-02	LISN(AMN)	Schwarzbeck	NSLK8127	8127344	CE	2009/08/18 * 12
KTM-01	Terminator	TME	CT-01BP	-	CE	2009/10/05 * 12
KCC-14/15/16 /18/KPL-01/KRM-01	Coaxial Cable/Pulse Limitter/RF Relay Matrix	Fujikura/Suhner/PMM/TSJ	5D-2W(10m)/8D-2W(10m)/S04272B(2m)/S04272B(2m)/PL01/-	-/9909017	CE	2010/05/18 * 12
KSA-02	Spectrum Analyzer	Advantest	R3265A	55060826	CE	2010/02/15 * 12
KTR-02	Test Receiver	Rohde & Schwarz	ESCS30	830986/017	CE	2009/09/16 * 12
KJM-10	Measure	KOMELON	KMC-36	-	CE	-
KOS-04	Humidity Indicator	SATO	PC-5000TRH	B-08	CE	2009/07/23 * 12
CUST-YA-RE	Radiated emission(software)	UL Japan	RE(Ver.2.0)	-	RE	-
KAEC-01(NSA)	Anechoic Chamber	JSE	Semi 3m	1	RE	2009/08/20 * 12
KAF-05	Pre Amplifier	Agilent	8447D	2944A10150	RE	2010/03/29 * 12
KAT3-08	Attenuator	JFW IND. INC.	50HF-003N	-	RE	2009/08/18 * 12
KAT6-01	Attenuator	INMET	18N-6dB	-	RE	2010/03/29 * 12
KBA-03	Biconical Antenna	Schwarzbeck	BBA9106	1926	RE	2009/12/28 * 12
KLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	170	RE	2009/12/28 * 12
KCC-30/31/32 /34/37/KRM-03	Coaxial Cable/RF Relay Matrix	Fujikura/Suhner/TSJ	5D-2W/S04272B/RFM-E421	-/01055	RE	2009/10/27 * 12
KAF-02	Pre Amplifier	Hewlett Packard	8449B	3008A01268	RE	2010/04/23 * 12
KHA-02	Horn Antenna	Schwarzbeck	BBHA9120D	230	RE	2010/04/05 * 12
KHA-04	Horn Antenna	EMCO	3160-09	1278	RE	2010/04/05 * 12
KCC-D14/D15	Coaxial cable	Suhner	SUCOFLEX 104(13m)/SUCOFLEX 104(0.6m)	232321/4 / 232365/4	RE	2009/12/17 * 12
KSA-04	Spectrum Analyzer	Advantest	R3271A	95060087	RE	2010/01/12 * 12
KCC-D24/D25	Coaxial Cable	Suhner	SUCOFLEX 102	32718/2 / 32709/2	RE	2010/04/20 * 12
MTR-06	Test Receiver	Rohde & Schwarz	ESCS30	830245/011	RE	2009/11/18 * 12
KJM-07	Measure	KOMELON	KMC-36	-	RE	-
KOS-02	Humidity Indicator	Custom	CTH-190	K-02	RE	2009/07/23 * 12
KAT10-S3	Attenuator	Agilent	8490D 010	50924	RE	2009/07/30 * 12
KCC-D20	Coaxial Cable	SUHNER	SUCOFLEX102	31110/2	AT 1,3,4	2009/07/30 * 12
KFL-01	Highpass Filter	Hewlett Packard	84300 80038	004	RE	2010/04/22 * 12
KPM-08	Power meter	Anritsu	ML2495A	6K00003356	AT 2	2009/10/30 * 12
KPSS-04	Power sensor	Anritsu	MA2411B	012088	AT 2	2009/10/30 * 12
KSA-08	Spectrum Analyzer	Agilent	E4446A	MY46180525	AT 1,3,4	2010/01/27 * 12
KOS-01	Humidity Indicator	Custom	CTH-190	K-01	AT all	2009/07/29 * 12
KAT10-S2	Attenuator	Agilent	8490D 010	06036	AT all	2009/12/17 * 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 traceable calibrations . Each calibration is traceable to the national or international standards.

Test Item :

- CE: Conducted emission
- RE: Out of band emission (Radiated)
- AT: Antenna terminal conducted test
 - 1: Bandwidth
 - 2: Maximum peak output power
 - 3: Out of band emission (Conducted)
 - 4: Peak power density