JAPAN QUALITY ASSURANCE ORGANIZATION
KITA-KANSAI TESTING CENTER
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EMC EMISSION - TEST REPORT

JQA APPLICATION No. : KL8080797

Model/Type No. : IC-R75

Name of Product : Communication Receiver

FCC ID : AFJ IC-R75

Applicant : ICOM Incorporated

Address : 1-6-19, Kuratsukuri, Kami, Hirano-ku, Osaka, Japan

Manufacturer : ICOM Incorporated

Address : 1-6-19, Kuratsukuri, Kami, Hirano-ku, Osaka, Japan

Final Judgement : **Passed**

TEST RESULTS IN THIS REPORT are obtained in use of equipment that is traceable to Electro-technical Lab. of MITI Japan and Comminications Research Lab. of PTT Japan.

THE TEST RESULTS only responds to the test sample. This test report shall not be reproduced except in full.

JAPAN QUALITY ASSURANCE ORGANIZATION (JQA)
KITA-KANSAI TESTING CENTER
EMC DIVISION

NVLAP®

LAB CODE: 200191-0

DIRECTORY

TEST REGULATION

FCC Rules and Regulations Part 15 Subpart A and B (April 17, 1997)

○ - Class A Digital Device
○ - Class B Digital Device
● - Scanning Receiver (employing tripple-superheterodyne techniques)

Test procedure:

Conducted emission, radiated emission and antenna conducted power test were performed according to the procedures in ANSI C63.4-1992.

GENERAL INFORMATION

Test facility:

1) Test Facility located at Kita-Kansai : 1st and 2nd Open Sites (3 m Site)
Test Facility located at Kameoka Open Site (3, 10 and 30 m, on common plane)
FCC filing No. : 31040/SIT 1300F2

2) KITA-KANSAI TESTING CENTER is recognized under the National Voluntary Lavoratory Accreditation Program for satisfactory compliance established in Title 15, Part 285 Code of Federal Regurations.
NAVLAP Lab Code: 200191-0

Description of the Equipment Under Test (EUT):

1) Name	:	Communication Receiver
2) Model/Type No.	:	IC-R75
3) Product Type	:	Pre-Production (S/N 0015)
4) Category	:	Scanning Receiver
5) EUT Authorization	:	○ - Verification ● - Certification ○ - D.o.C.
6) Highest frequency used/generated	:	129.011500 MHz
7) Power Rating	:	DC 13.8V (AC Adapter AD-55A : AC120V 60Hz)

Definitions for symbols used in this test report:

● - Black box indicates that the listed condition, standard or equipment is applicable for this Report.
○ - Blank box indicates that the listed condition, standard or equipment is not applicable for this Report.

TEST CONDITIONS

The measurement of the Conducted Emission (Disturbance Voltage)
was performed in the following test site.

Test location:

KITA-KANSAI Testing Center
7-7, Ishimaru, 1-Chome, Minoh-Shi, Osaka, 562-0027, Japan
● - Shielded room
KAMEOKA EMC Branch
9-1, Ozaki, Inukanno, Nishibetsuin-Cho, Kameoka-Shi, Kyoto, 621-0126, Japan
○ - Shielded room
○ - On metal plane of open site

Used test instruments and sites:

Model No.	Device I.D No.	Last Cal. Date	Cal. Interval
○ - ESH 3	A - 1		
● - ESH 2	A - 2	December, 1998	1 Year
○ - ESH 2	A - 3		
● - KNW-407	D - 6	February, 1999	1 Year
○ - KNW-408	D - 11		
○ - KNW-242	D - 7		
○ - ESH3-Z5	D - 12		
○ - KNW-341C	D - 13		
○ - KNW-408	D - 14		
○ - KNW-244C	D - 77		
○ - KNW-408	D - 78		
○ - ESH2-Z5	D - 10		
○ - ESH2-Z3	D - 17		
○ - 8568B	A - 10		
○ - 8566B	A - 13		
○ - 8593A	A - 15		
● - Cable	H - 8	February, 1999	1 Year

Environmental conditions:

Temperature: 24 °C Humidity: 42 %

The measurement of the Radiated Emission (Electric Field)
was performed in horizontal and vertical polarization, in the frequency range of 30 MHz - 1000 MHz, in the following test site.

Test location:

KITA-KANSAI Testing Center
7-7, Ishimaru, 1-Chome, Minoh-Shi, Osaka, 562-0027, Japan
● - 1st site (3 meters)
○ - 2nd site (3 meters)
KAMEOKA EMC Branch
9-1, Ozaki, Inukanno, Nishibetsuin-Cho, Kameoka-Shi, Kyoto, 621-0126, Japan
○ - 3 meters
○ - 10 meters

Validation of Site Attenuation:

1) Last Confirmed Date: November 27, 1998
2) Interval : 1 Year

Used test instruments:

Model No.	Device I.D No.	Last Cal. Date	Cal. Interval
● - ESV/ESV-Z3	A - 7 / A - 17	December, 1998	1 Year
○ - ESV/ESV-Z3	A - 6 / A - 18		
○ - ESV/ESV-Z3	A - 5 / A - 16		
○ - ESV/ESV-Z3	A - 4 / A - 20		
○ - ESV/ESV-Z3	A - 8 / A - 19		
● - KBA-511A	C - 12	November, 1998	1 Year
● - KBA-611	C - 22	November, 1998	1 Year
○ - KBA-511A	C - 13		
○ - KBA-611	C - 19		
○ - KBA-511A	C - 11		
○ - KBA-611	C - 21		
● - Cable	H - 5	November, 1998	1 Year

Environmental conditions:

Temperature: 10 °C Humidity: 66 %

The measurement of the Radiated Emission (Electric Field)
was performed in horizontal and vertical polarization, in the frequency range of 1000 MHz - 2000 MHz, in the following test site.

Test location:

KITA-KANSAI Testing Center
7-7, Ishimaru, 1-Chome, Minoh-Shi, Osaka, 562-0027, Japan
○ - 1st site (3 meters)
○ - 2nd site (3 meters)
KAMEOKA EMC Branch
9-1, Ozaki, Inukanno, Nishibetsuin-Cho, Kameoka-Shi, Kyoto, 621-0126, Japan
○ - 3 meters
○ - 10 meters

Used test instruments:

Model No.	Device I.D No.	Last Cal. Date	Cal. Interval
○ - 8566B	A - 13		
○ - 8593A	A - 15		
○ - ESV	A - 5		
○ - 4T-10	D - 73		
○ - 4T-10	D - 74		
○ - WJ-6611-513	A - 23		
○ - WJ-6882-824	A - 21		
○ - DBL-0618N515	A - 33		
○ - 91888-2	C - 41 - 1		
○ - 91889-2	C - 41 - 2		
○ - 94613-1	C - 41 - 3		
○ - 91891-2	C - 41 - 4		
○ - 94614-1	C - 41 - 5		
○ - 3160-09	C - 48		
○ - TRA-603D	D - 24		
○ - 8494H/8595H	D - 76		
○ - MZ5010C	D - 81		
○ - Cable	C - 40 - 11		
○ - Cable	C - 40 - 12		

Setting of the spectrum analyzer:

RES B.W : Video B.W :
SCALE : Sweep Time:

Environmental conditions:

Temperature: ____ °C Humidity: ____ %

The measurement of the Antenna Conducted Power
was performed in the frequency range of 30 MHz - 1000 MHz, in the following test site.

Test location:

KITA-KANSAI Testing Center
7-7, Ishimaru, 1-Chome, Minoh-Shi, Osaka, 562-0027, Japan
● - Shielded Room
○ - Anechoic Chamber
KAMEOKA EMC Branch
9-1, Ozaki, Inukanno, Nishibetsuin-Cho, Kameoka-Shi, Kyoto, 621-0126, Japan
○ - Shielded Room

Used test instruments:

Model No.	Device I.D No.	Last Cal. Date	Cal. Interval
● - ESV	A - 5	December, 1998	1 Year
○ - 8568B	A - 10		
○ - 8566B	A - 13		
○ - 8593A	A - 15		
○ - LSG-221	B - 15		
○ - 216/1	B - 16		
○ - MP614A	D - 56		
○ - 12B50/75	D - 55		
○ - 12N50/75B	D - 72		
● - 2-10	D - 40	June, 1998	1 Year
○ - 1506A	D - 21		
● - Cable	C - 41 - 9	June, 1998	1 Year

Environmental conditions:

Temperature: 23 °C Humidity: 22 %

CONFIGURATION OF EUT

The Equipment Under Test (EUT) consists of:

Description	Applicant (Manufacturer)	Model No. (Serial No.)	FCC ID
Communication Receiver	ICOM Incorporated (ICOM Incorporated)	IC-R75 (0015)	AFJ IC-R75
AC Adapter	ICOM Incorporated (ICOM Incorporated)	AD-55A (--)	N/A

The measurement was carried out with the following equipment connected:

Description	Grantee/Distributor	Model No. (Serial No.)	FCC ID
CI-V Level Converter	ICOM Incorporated	CT-17 (0006)	N/A
External Speaker	ICOM Incorporated	SP-12 (--)	N/A
Stereo Headphone	Pioneer Electronic Corporation	SE-M300 (--)	N/A

Type of Interference Cable(s) and the AC Power Cord used with the EUT:

No.	Cable	Shielded	Ferrite Core	Length
1	EUT "REC REMOTE" / Termination cable	YES	NO	1.1m
2	EUT "REC" / Termination cable	YES	NO	1.1m
3	EUT "RS-232C" / Termination cable	YES	NO	1.7m
4	EUT "REMOTE" / CI-V Level Converter	YES	NO	1.2m
5	EUT "EXT SP" / External Speaker	NO	NO	2.2m
6	EUT "MUTE" / No termination cable	YES	NO	1.5m
7	EUT "PHONES" / Stereo Headphone	NO	NO	2.8m
8	EUT "ANT 1" / 50Ω termination	--	--	--
9	EUT "ANT 2" / No termination	--	--	--
10	DC Power Cord (EUT / AC Adapter)	NO	NO	1.9m
11	AC Power Cord (EUT / AC Adapter) with 2-pin plug	NO	NO	1.9m

Operation - mode of the EUT:

The EUT has some receiving mode shown as follows:

Receiving mode	1st IF [MHz]	2nd IF [MHz]	3rd IF [MHz]
LSB	69.0115	9.0115	0.4550
USB	69.0115	9.0115	0.4550
CW	69.0106	9.0106	0.4559
CW-R	69.0124	9.0124	0.4541
RTTY	69.0105	9.0105	0.4560
RTTY-R	69.0105	9.0105	0.4560
AM/S-AM	69.0100	9.0100	0.4500
FM	69.0115	9.0115	0.4500

The test was performed "FM receiving" mode.

Detailed receiver portion:

1) Relation between Receiving Frequency, Local Frequency and Intermediate Frequency

No.	Receiving Frequeny [MHz]	1st Local Frequency [MHz]	VCO Frequency [MHz]
1	0.030000 - 1.999999	69.041500 - 71.011499	69.041500 - 71.011499
2	2.000000 - 3.999999	71.011500 - 73.011499	71.011500 - 73.011499
3	4.000000 - 7.999999	73.011500 - 77.011499	73.011500 - 77.011499
4	8.000000 - 10.999999	77.011500 - 80.011499	77.011500 - 80.011499
5	11.000000 - 14.999999	80.011500 - 84.011499	80.011500 - 84.011499
6	15.000000 - 21.999999	84.011500 - 91.011499	84.011500 - 91.011499
7	22.000000 - 29.999999	91.011500 - 99.011499	91.011500 - 99.011499
8	30.000000 - 49.999999	99.011500 - 119.011499	99.011500 - 119.011499
9	50.000000 - 60.000000	119.011500 - 129.011500	119.011500 - 129.011500

2nd Local Frequency : 60.000000 MHz
3rd Local Frequency : 9.461500 MHz

2) Respective Intermediate Frequency : 1st IF / 69.0115 MHz (Upper)
2nd IF / 9.0115 MHz (Lower)
3rd IF / 0.4500 MHz (Upper)

3) The highest Local Frequency : 129.011500 MHz

4) Type of Antenna Terminal : M-Type connector / 50Ω (Unbalanced)

5) Receiving Mode : FM

Test system:

The EUT has two antenna (ANT 1 and ANT 2) terminal, a PHONES port, a DC IN port, a MUTE port, an EXT SP port, a REMOTE port, a REC port, a REC REMOTE port and a RS-232C port.

The RS-232C port can be connected to a personal computer equipped with RS-232C port, but the personal computer was not arranged during the test.

The ANT 1 (50Ω) and the ANT 2 (500Ω) are selected by the antenna selector switch "ANT/SET". The test was carried out using the ANT 1 terminal, when the ANT 2 terminal was floating on the circuit board.

Special accessories:

None

The used (generated) frequencies in the EUT:

*1st Local Frequency	:	69.041500 MHz + [A] ~ 99.011499 MHz + [A]
(VCO Frequency)		99.011500 MHz + [A] ~ 129.011500 MHz + [A]
2nd Local Frequency	:	60.0000 MHz
3rd Local Frequency	:	9.4665 MHz (LSB/USB/CW/CW-R/RTTY/RTTY-R) 9.4600 MHz (AM/S-AM) 9.4615 MHz (FM)
Intermedate Frequency	:	Refer to Page 10
Other	:	39.98 MHz, 32.768 MHz, 30 MHz, 15.99 MHz, 9.8304 MHz, 3.60 MHz, 800 kHz

*) [A] is deferent for the each receiving mode.

Receiving mode	[A]
LSB	-1500 Hz
USB	+1500 Hz
CW	- 900 Hz
CW-R	+ 900 Hz
RTTY	-1000 Hz
RTTY-R	-1000 Hz
AM/S-AM	-1500 Hz
FM	0 Hz

EUT Modification

● - No modifications were conducted by JQA to achive compliance to applied levels.

○ - To achieve compliance to applied levels, the following change(s) were made by JQA during the compliance test.

The modification(s) will be implemented in all production models of this equipment.

Applicant : N/A Date : N/A

Typed Name : N/A Position : N/A

Responsible Party

Responsible Party of Test Item(Product)

Responsibe party :

Contact Person :

Signatory

TEST RESULTS

Conducted Emission 450 kHz - 30 MHz

The requirements are ● - KEPT ○ - NOT KEPT

Min. limit margin More than +37.1 dB at 29.50 MHz

Max. limit exceeding _____ dB at _____ MHz

Uncertainty of measurement results + 2.1 dB(2σ) - 2.1 dB(2σ)

Remarks: _____

Radiated Emission (Electric Field) 30 MHz - 1000 MHz

The requirements are ● - KEPT ○ - NOT KEPT

Min. limit margin + 3.6 dB at 91.011499 MHz
and 91.011500 MHz

Max. limit exceeding _____ dB at _____ MHz

Uncertainty of measurement results + 4.1 dB(2σ) - 4.2 dB(2σ)

Remarks: _____

Antenna Conducted Power 30 MHz - 1000 MHz

The requirements are ● - KEPT ○ - NOT KEPT

Min. limit margin +11.0 dB at 476.045996 MHz

Max. limit exceeding _____ dB at _____ MHz

Uncertainty of measurement results + 2.3 dB(2σ) - 2.3 dB(2σ)

Remarks: _____

SUMMARY

GENERAL REMARKS :

The EUT was tested according to the requirements of FCC Rules and Regulations Part 15 Subpart A and B (April 17, 1997) under the test configuration, as shown in page 15.

The conclusion for the test items of which are required by the applied regulation is indicated under the final judgement.

FINAL JUDGEMENT :

The "as received" sample;

● - fulfill the test requirements of the regulation mentioned on page 3.

○ - fulfill the test requirements of the regulation mentioned on page 3, but with certain qualifications.

○ - doesn't fulfill the test regulation mentioned on page 3.

Begin of testing : March 12, 1999

End of testing : March 16, 1999

- JAPAN QUALITY ASSURANCE ORGANIZATION -

Takashi Yamanaka
Manager
EMC Div.
JQA KITA-KANSAI Testing Center

Approved Signatory :

Akio Hosoda
Project Manager
EMC Div.
JQA KITA-KANSAI Testing Center

Mains terminal Disturbance Measurement

Scanning Receiver

Test Date: March 16, 1999

Tuning Frequency : 30.000000 MHz

Temp.: 24 °C ; Humi.: 42 %

Frequency [MHz]	Correction Factor [dB]	Meter Readings [dB(μV)] VA-QP	VA-AV	VB-QP	VB-AV	Limits [dB(μV)]	Results [dB(μV)] QP	AV	Margin [dB]	Remarks (Note 2)
0.45	0.1	< 10.0	-	< 10.0	-	48.0	< 10.1	-	>+37.9	A
1.00	0.1	< 10.0	-	< 10.0	-	48.0	< 10.1	-	>+37.9	A
2.00	0.2	< 10.0	-	< 10.0	-	48.0	< 10.2	-	>+37.8	A
5.00	0.4	< 10.0	-	< 10.0	-	48.0	< 10.4	-	>+37.6	A
9.80	0.5	< 10.0	-	< 10.0	-	48.0	< 10.5	-	>+37.5	A
13.30	0.6	< 10.0	-	< 10.0	-	48.0	< 10.6	-	>+37.4	A
15.00	0.7	< 10.0	-	< 10.0	-	48.0	< 10.7	-	>+37.3	A
19.70	0.8	< 10.0	-	< 10.0	-	48.0	< 10.8	-	>+37.2	A
22.00	0.8	< 10.0	-	< 10.0	-	48.0	< 10.8	-	>+37.2	A
29.50	0.9	< 10.0	-	< 10.0	-	48.0	< 10.9	-	>+37.1	A

Sample of calculated result at 29.50 MHz, as the Minimum Margin point:

Correction Factor = 0.9 dB
+)Meter Reading = <10.0 dB(μV)
Result = <10.9 dB(μV)

Minimum Margin : 48.0 - <10.9 = >37.1(dB)

The point shown on "___ " is the Minimum Margin Point.

Note 1:

1.The correction factors includes the LISN insertion loss and the cable loss.

Remarks:

Note 2	Detector Function	IF Bandwidth
A	CISPR QP	9 kHz
B	Average	10 kHz

Tester Signature : A. Hosoda

Type Name : Akio Hosoda

Electromagnetic Radiation Disturbance Measurement

Scanning Receiver

Test Date: March 16, 1999
Temp.: 10 °C ; Humi.: 66 %

Tuning range : 0.030000 MHz - 1.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV)]	Polarity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Margin [dB]	Remarks (Note 2)
0.030000	69.041500	7.3	21.0	H	40.0	28.3	+11.7	A
	138.083000	14.0	9.0	H	43.5	23.0	+20.5	A
	207.124500	18.1	1.0	H	43.5	19.1	+24.4	A
	276.166000	21.1	< 0.0	-	46.0	< 21.1	>+24.9	A
	345.207500	23.6	< -5.0	-	46.0	< 18.6	>+27.4	A
	414.249000	25.8	< -5.0	-	46.0	< 20.8	>+25.2	A
	483.290500	27.6	< -5.0	-	46.0	< 22.6	>+23.4	A
	552.332000	29.2	< -5.0	-	46.0	< 24.2	>+21.8	A
	621.373500	30.7	< -5.0	-	46.0	< 25.7	>+20.3	A
	690.415000	32.0	< -5.0	-	46.0	< 27.0	>+19.0	A
	759.456500	33.3	<-10.0	-	46.0	< 23.3	>+22.7	A
	828.498000	34.4	<-10.0	-	46.0	< 24.4	>+21.6	A
	897.539500	35.6	<-10.0	-	46.0	< 25.6	>+20.4	A
	966.581000	36.7	<-10.0	-	54.0	< 26.7	>+27.3	A
1.999999	71.011499	7.5	21.0	H	40.0	28.5	+11.5	A
	142.022998	14.2	9.0	H	43.5	23.2	+20.3	A
	213.034497	18.4	1.0	H	43.5	19.4	+24.1	A
	284.045996	21.4	< 0.0	-	46.0	< 21.4	>+24.6	A
	355.057495	23.9	< -5.0	-	46.0	< 18.9	>+27.1	A
	426.068994	26.0	< -5.0	-	46.0	< 21.0	>+25.0	A
	497.080493	27.9	< -5.0	-	46.0	< 22.9	>+23.1	A
	568.091992	29.6	< -5.0	-	46.0	< 24.6	>+21.4	A
	639.103491	31.0	< -5.0	-	46.0	< 26.0	>+20.0	A
	710.114990	32.3	<-10.0	-	46.0	< 22.3	>+23.7	A
	781.126489	33.6	<-10.0	-	46.0	< 23.6	>+22.4	A
	852.137988	34.8	<-10.0	-	46.0	< 24.8	>+21.2	A
	923.149487	35.9	<-10.0	-	46.0	< 25.9	>+20.1	A
	994.160986	37.1	<-10.0	-	54.0	< 27.1	>+26.9	A

Tuning range : 2.000000 MHz - 3.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV)]	Polarity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Margin [dB]	Remarks (Note 2)
2.000000	71.011500	7.5	18.0	H	40.0	25.5	+14.5	A
	142.023000	14.2	11.0	H	43.5	25.2	+18.3	A
	213.034500	18.4	0.0	H	43.5	18.4	+25.1	A
	284.046000	21.4	< 7.0	-	46.0	< 28.4	>+17.6	A
	355.057500	23.9	< -5.0	-	46.0	< 18.9	>+27.1	A
	426.069000	26.0	< -5.0	-	46.0	< 21.0	>+25.0	A
	497.080500	27.9	< -5.0	-	46.0	< 22.9	>+23.1	A
	568.092000	29.6	< -5.0	-	46.0	< 24.6	>+21.4	A
	639.103500	31.0	< -5.0	-	46.0	< 26.0	>+20.0	A
	710.115000	32.3	<-10.0	-	46.0	< 22.3	>+23.7	A
	781.126500	33.6	<-10.0	-	46.0	< 23.6	>+22.4	A
	852.138000	34.8	<-10.0	-	46.0	< 24.8	>+21.2	A
	923.149500	35.9	<-10.0	-	46.0	< 25.9	>+20.1	A
	994.161000	37.1	<-10.0	-	54.0	< 27.1	>+26.9	A
3.999999	73.011499	7.8	14.0	H	40.0	21.8	+18.2	A
	146.022998	14.5	12.0	H	43.5	26.5	+17.0	A
	219.034497	18.7	< 8.0	-	46.0	< 26.7	>+19.3	A
	292.045996	21.7	< 0.0	-	46.0	< 21.7	>+24.3	A
	365.057495	24.3	< -5.0	-	46.0	< 19.3	>+26.7	A
	438.068994	26.4	< -5.0	-	46.0	< 21.4	>+24.6	A
	511.080493	28.3	< -5.0	-	46.0	< 23.3	>+22.7	A
	584.091992	29.9	< -5.0	-	46.0	< 24.9	>+21.1	A
	657.103491	31.4	< -5.0	-	46.0	< 26.4	>+19.6	A
	730.114990	32.7	<-10.0	-	46.0	< 22.7	>+23.3	A
	803.126489	34.0	<-10.0	-	46.0	< 24.0	>+22.0	A
	876.137988	35.2	<-10.0	-	46.0	< 25.2	>+20.8	A
	949.149487	36.4	<-10.0	-	46.0	< 26.4	>+19.6	A

Tuning range : 4.000000 MHz - 7.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV)]	Polarity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Margin [dB]	Remarks (Note 2)
4.000000	73.011500	7.8	14.0	H	40.0	21.8	+18.2	A
	146.023000	14.5	12.0	H	43.5	26.5	+17.0	A
	219.034500	18.7	< 8.0	-	46.0	< 26.7	>+19.3	A
	292.046000	21.7	< 0.0	-	46.0	< 21.7	>+24.3	A
	365.057500	24.3	< -5.0	-	46.0	< 19.3	>+26.7	A
	438.069000	26.4	< -5.0	-	46.0	< 21.4	>+24.6	A
	511.080500	28.3	< -5.0	-	46.0	< 23.3	>+22.7	A
	584.092000	29.9	< -5.0	-	46.0	< 24.9	>+21.1	A
	657.103500	31.4	< -5.0	-	46.0	< 26.4	>+19.6	A
	730.115000	32.7	<-10.0	-	46.0	< 22.7	>+23.3	A
	803.126500	34.0	<-10.0	-	46.0	< 24.0	>+22.0	A
	876.138000	35.2	<-10.0	-	46.0	< 25.2	>+20.8	A
	949.149500	36.4	<-10.0	-	46.0	< 26.4	>+19.6	A
7.999999	77.011499	8.3	15.0	H	40.0	23.3	+16.7	A
	154.022998	15.1	9.0	H	43.5	24.1	+19.4	A
	231.034497	19.2	6.0	H	46.0	25.2	+20.8	A
	308.045996	22.2	< -5.0	-	46.0	< 17.2	>+28.8	A
	385.057495	24.9	< -5.0	-	46.0	< 19.9	>+26.1	A
	462.068994	27.0	< -5.0	-	46.0	< 22.0	>+24.0	A
	539.080493	28.9	< -5.0	-	46.0	< 23.9	>+22.1	A
	616.091992	30.6	< -5.0	-	46.0	< 25.6	>+20.4	A
	693.103491	32.0	< -5.0	-	46.0	< 27.0	>+19.0	A
	770.114990	33.4	<-10.0	-	46.0	< 23.4	>+22.6	A
	847.126489	34.7	<-10.0	-	46.0	< 24.7	>+21.3	A
	924.137988	35.9	<-10.0	-	46.0	< 25.9	>+20.1	A

Tuning range : 8.000000 MHz - 10.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV)]	Polarity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Margin [dB]	Remarks (Note 2)
8.000000	77.011500	8.3	15.0	H	40.0	23.3	+16.7	A
	154.023000	15.1	9.0	H	43.5	24.1	+19.4	A
	231.034500	19.2	6.0	H	46.0	25.2	+20.8	A
	308.046000	22.2	< -5.0	-	46.0	< 17.2	>+28.8	A
	385.057500	24.9	< -5.0	-	46.0	< 19.9	>+26.1	A
	462.069000	27.0	< -5.0	-	46.0	< 22.0	>+24.0	A
	539.080500	28.9	< -5.0	-	46.0	< 23.9	>+22.1	A
	616.092000	30.6	< -5.0	-	46.0	< 25.6	>+20.4	A
	693.103500	32.0	< -5.0	-	46.0	< 27.0	>+19.0	A
	770.115000	33.4	<-10.0	-	46.0	< 23.4	>+22.6	A
	847.126500	34.7	<-10.0	-	46.0	< 24.7	>+21.3	A
	924.138000	35.9	<-10.0	-	46.0	< 25.9	>+20.1	A
10.999999	80.011499	8.7	19.0	H	40.0	27.7	+12.3	A
	160.022998	15.5	9.0	H	43.5	24.5	+19.0	A
	240.034497	19.6	9.0	H	46.0	28.6	+17.4	A
	320.045996	22.7	4.0	H	46.0	26.7	+19.3	A
	400.057495	25.3	3.0	H	46.0	28.3	+17.7	A
	480.068994	27.5	< -5.0	-	46.0	< 22.5	>+23.5	A
	560.080493	29.4	< -5.0	-	46.0	< 24.4	>+21.6	A
	640.091992	31.0	< -5.0	-	46.0	< 26.0	>+20.0	A
	720.103491	32.6	<-10.0	-	46.0	< 22.6	>+23.4	A
	800.114990	34.0	<-10.0	-	46.0	< 24.0	>+22.0	A
	880.126489	35.3	<-10.0	-	46.0	< 25.3	>+20.7	A
	960.137988	36.5	<-10.0	-	54.0	< 26.5	>+27.5	A

Tuning range : 11.000000 MHz - 14.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV)]	Polarity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Margin [dB]	Remarks (Note 2)
11.000000	80.011500	8.7	16.0	H	40.0	24.7	+15.3	A
	160.023000	15.5	9.0	H	43.5	24.5	+19.0	A
	240.034500	19.6	9.0	H	46.0	28.6	+17.4	A
	320.046000	22.7	4.0	H	46.0	26.7	+19.3	A
	400.057500	25.3	3.0	H	46.0	28.3	+17.7	A
	480.069000	27.5	< -5.0	-	46.0	< 22.5	>+23.5	A
	560.080500	29.4	< -5.0	-	46.0	< 24.4	>+21.6	A
	640.092000	31.0	< -5.0	-	46.0	< 26.0	>+20.0	A
	720.103500	32.6	<-10.0	-	46.0	< 22.6	>+23.4	A
	800.115000	34.0	<-10.0	-	46.0	< 24.0	>+22.0	A
	880.126500	35.3	<-10.0	-	46.0	< 25.3	>+20.7	A
	960.138000	36.5	<-10.0	-	54.0	< 26.5	>+27.5	A
14.999999	84.011499	9.1	18.0	H	40.0	27.1	+12.9	A
	168.022998	15.9	14.0	H	43.5	29.9	+13.6	A
	252.034497	20.1	10.0	H	46.0	30.1	+15.9	A
	336.045996	23.3	5.0	H	46.0	28.3	+17.7	A
	420.057495	25.9	< -5.0	-	46.0	< 20.9	>+25.1	A
	504.068994	28.1	< -5.0	-	46.0	< 23.1	>+22.9	A
	588.080493	30.0	< -5.0	-	46.0	< 25.0	>+21.0	A
	672.091992	31.7	< -5.0	-	46.0	< 26.7	>+19.3	A
	756.103491	33.1	<-10.0	-	46.0	< 23.1	>+22.9	A
	840.114990	34.6	<-10.0	-	46.0	< 24.6	>+21.4	A
	924.126489	35.9	<-10.0	-	46.0	< 25.9	>+20.1	A

Tuning range : 15.000000 MHz - 21.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV)]	Polarity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Margin [dB]	Remarks (Note 2)
15.000000	84.011500	9.1	19.0	H	40.0	28.1	+11.9	A
	168.023000	15.9	14.0	H	43.5	29.9	+13.6	A
	252.034500	20.1	10.0	H	46.0	30.1	+15.9	A
	336.046000	23.3	5.0	H	46.0	28.3	+17.7	A
	420.057500	25.9	< -5.0	-	46.0	< 20.9	>+25.1	A
	504.069000	28.1	< -5.0	-	46.0	< 23.1	>+22.9	A
	588.080500	30.0	< -5.0	-	46.0	< 25.0	>+21.0	A
	672.092000	31.7	< -5.0	-	46.0	< 26.7	>+19.3	A
	756.103500	33.1	<-10.0	-	46.0	< 23.1	>+22.9	A
	840.115000	34.6	<-10.0	-	46.0	< 24.6	>+21.4	A
	924.126500	35.9	<-10.0	-	46.0	< 25.9	>+20.1	A
21.999999	91.011499	9.9	30.0	H	43.5	39.9	+ 3.6	A
	182.022998	16.8	18.0	H	43.5	34.8	+ 8.7	A
	273.034497	21.0	1.0	H	46.0	22.0	+24.0	A
	364.045996	24.2	3.0	H	46.0	27.2	+18.8	A
	455.057495	26.9	< -5.0	-	46.0	< 21.9	>+24.1	A
	546.068994	29.1	< -5.0	-	46.0	< 24.1	>+21.9	A
	637.080493	31.0	< -5.0	-	46.0	< 26.0	>+20.0	A
	728.091992	32.7	<-10.0	-	46.0	< 22.7	>+23.3	A
	819.103491	34.3	<-10.0	-	46.0	< 24.3	>+21.7	A
	910.114990	35.7	<-10.0	-	46.0	< 25.7	>+20.3	A

Tuning range : 22.000000 MHz - 29.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV)]	Polarity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Margin [dB]	Remarks (Note 2)
22.000000	91.011500	9.9	30.0	H	43.5	39.9	+ 3.6	A
	182.023000	16.8	18.0	H	43.5	34.8	+ 8.7	A
	273.034500	21.0	1.0	H	46.0	22.0	+24.0	A
	364.046000	24.2	3.0	H	46.0	27.2	+18.8	A
	455.057500	26.9	< -5.0	-	46.0	< 21.9	>+24.1	A
	546.069000	29.1	< -5.0	-	46.0	< 24.1	>+21.9	A
	637.080500	31.0	< -5.0	-	46.0	< 26.0	>+20.0	A
	728.092000	32.7	<-10.0	-	46.0	< 22.7	>+23.3	A
	819.103500	34.3	<-10.0	-	46.0	< 24.3	>+21.7	A
	910.115000	35.7	<-10.0	-	46.0	< 25.7	>+20.3	A
29.999999	99.011499	10.7	25.0	H	43.5	35.7	+ 7.8	A
	198.022998	17.6	18.0	H	43.5	35.6	+ 7.9	A
	297.034497	21.9	3.0	H	46.0	24.9	+21.1	A
	396.045996	25.3	6.0	H	46.0	31.3	+14.7	A
	495.057495	27.9	< -5.0	-	46.0	< 22.9	>+23.1	A
	594.068994	30.1	< -5.0	-	46.0	< 25.1	>+20.9	A
	693.080493	32.0	< -5.0	-	46.0	< 27.0	>+19.0	A
	792.091992	33.8	<-10.0	-	46.0	< 23.8	>+22.2	A
	891.103491	35.4	<-10.0	-	46.0	< 25.4	>+20.6	A
	990.114990	37.0	<-10.0	-	54.0	< 27.0	>+27.0	A

Tuning range : 30.000000 MHz - 49.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV)]	Polarity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Margin [dB]	Remarks (Note 2)
30.000000	99.011500	10.7	25.0	H	43.5	35.7	+ 7.8	A
	198.023000	17.6	16.0	H	43.5	33.6	+ 9.9	A
	297.034500	21.9	3.0	H	46.0	24.9	+21.1	A
	396.046000	25.3	5.0	H	46.0	30.3	+15.7	A
	495.057500	27.9	< -5.0	-	46.0	< 22.9	>+23.1	A
	594.069000	30.1	< -5.0	-	46.0	< 25.1	>+20.9	A
	693.080500	32.0	< -5.0	-	46.0	< 27.0	>+19.0	A
	792.092000	33.8	<-10.0	-	46.0	< 23.8	>+22.2	A
	891.103500	35.4	<-10.0	-	46.0	< 25.4	>+20.6	A
	990.115000	37.0	<-10.0	-	54.0	< 27.0	>+27.0	A
40.000000	109.011500	11.6	18.0	H	43.5	29.6	+13.9	A
	218.023000	18.6	21.0	H	46.0	39.6	+ 6.4	A
	327.034500	22.9	4.0	H	46.0	26.9	+19.1	A
	436.046000	26.4	< -5.0	-	46.0	< 21.4	>+24.6	A
	545.057500	29.0	< -5.0	-	46.0	< 24.0	>+22.0	A
	654.069000	31.3	< -5.0	-	46.0	< 26.3	>+19.7	A
	763.080500	33.3	<-10.0	-	46.0	< 23.3	>+22.7	A
	872.092000	35.1	<-10.0	-	46.0	< 25.1	>+20.9	A
	981.103500	36.9	<-10.0	-	54.0	< 26.9	>+27.1	A
49.999999	119.011499	12.5	20.0	H	43.5	32.5	+11.0	A
	238.022998	19.5	20.0	H	46.0	39.5	+ 6.5	A
	357.034497	24.0	11.0	H	46.0	35.0	+11.0	A
	476.045996	27.4	< -5.0	-	46.0	< 22.4	>+23.6	A
	595.057495	30.1	< -5.0	-	46.0	< 25.1	>+20.9	A
	714.068994	32.4	<-10.0	-	46.0	< 22.4	>+23.6	A
	833.080493	34.5	<-10.0	-	46.0	< 24.5	>+21.5	A
	952.091992	36.4	<-10.0	-	46.0	< 26.4	>+19.6	A

Tuning range : 50.000000 MHz - 60.000000 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV)]	Polarity	Limits [dB(μV/m)]	Results [dB(μV/m)]	Margin [dB]	Remarks (Note 2)
50.000000	119.011500	12.5	20.0	H	43.5	32.5	+11.0	A
	238.023000	19.5	20.0	H	46.0	39.5	+ 6.5	A
	357.034500	24.0	11.0	H	46.0	35.0	+11.0	A
	476.046000	27.4	< -5.0	-	46.0	< 22.4	>+23.6	A
	595.057500	30.1	< -5.0	-	46.0	< 25.1	>+20.9	A
	714.069000	32.4	<-10.0	-	46.0	< 22.4	>+23.6	A
	833.080500	34.5	<-10.0	-	46.0	< 24.5	>+21.5	A
	952.092000	36.4	<-10.0	-	46.0	< 26.4	>+19.6	A
60.000000	129.011500	13.3	19.0	H	43.5	32.3	+11.2	A
	258.023000	20.4	5.0	H	46.0	25.4	+20.6	A
	387.034500	24.9	10.0	H	46.0	34.9	+11.1	A
	516.046000	28.4	< -5.0	-	46.0	< 23.4	>+22.6	A
	645.057500	31.1	< -5.0	-	46.0	< 26.1	>+19.9	A
	774.069000	33.5	<-10.0	-	46.0	< 23.5	>+22.5	A
	903.080500	35.6	<-10.0	-	46.0	< 25.6	>+20.4	A

Other Disturbance Frequency

Frequency [MHz]	Correction Factor [dB(1/m)]	Meter Readings [dB(μV)] Hori.	Meter Readings [dB(μV)] Vert.	Limits [dB(μV/m)]	Results [dB(μV/m)] Hori.	Results [dB(μV/m)] Vert.	Margin [dB]	Remarks (Note 2)
32.0	0.7	< 18.0	< 20.0	40.0	< 18.7	< 20.7	>+19.3	A
75.2	8.0	< 12.0	< 4.0	40.0	< 20.0	< 12.0	>+20.0	A
120.0	12.6	14.0	12.0	43.5	26.6	24.6	+16.9	A
150.0	14.8	9.0	3.0	43.5	23.8	17.8	+19.7	A
199.9	17.7	< 0.0	< 0.0	43.5	< 17.7	< 17.7	>+25.8	A
239.8	19.6	< 0.0	< 0.0	46.0	< 19.6	< 19.6	>+26.4	A
303.8	22.1	< -1.0	< -5.0	46.0	< 21.1	< 17.1	>+24.9	A
359.9	24.0	< -5.0	< -5.0	46.0	< 19.0	< 19.0	>+27.0	A
469.8	27.3	< -5.0	< -5.0	46.0	< 22.3	< 22.3	>+23.7	A

Sample of calculated result at 91.011500 MHz, as the Minimum Margin point:

Corretion Factor	=	9.9 dB(1/m)
+)Meter Reading	=	30.0 dB(μV)
Result	=	39.9 dB(μV/m)

Minimum Margin : 43.5 - 39.9 = 3.6(dB)
The point shown on "____ " is the Minimum Margin Point.

Note 1:
1)The highest frequency generated or used in the EUT: 129.011500 MHz
2)The upper frequency of measurement range : 1000 MHz
3)The spectrum was scanned 30 MHz to 1000 MHz and all emissions not reported were more than 20dB below the applied limits.
4)Correction Factor : Antenna Factor[dB(1/m)] + Cable Loss[dB]

Remarks:

Note 2	Detector Function	IF Bandwidth
A	CISPR QP	120 kHz
B	Average	120 kHz
C	Average	12 kHz
D	Average	7.5 kHz

Tester Signature : A. Hosoda

Type Name : Akio Hosoda

Antenna Terminal Disturbance Voltage Measurement

Scanning Receiver

Test Date: March 12, 1999
Temp.: 23 ℃ ; Humi.: 22 %

Tuning range : 0.030000 MHz - 1.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
0.030000	69.041500	10.0	10.0	50.0	20.0	+30.0	A
	138.083000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	207.124500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	276.166000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	345.207500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	414.249000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	483.290500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	552.332000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	621.373500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	690.415000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	759.456500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	828.498000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	897.539500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	966.581000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
1.999999	71.011499	10.0	11.0	50.0	21.0	+29.0	A
	142.022998	10.0	11.0	50.0	21.0	+29.0	A
	213.034497	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	284.045996	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	355.057495	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	426.068994	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	497.080493	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	568.091992	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	639.103491	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	710.114990	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	781.126489	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	852.137988	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	923.149487	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	994.160986	10.0	< 10.0	50.0	< 20.0	>+30.0	A

Tuning range : 2.000000 MHz - 3.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
2.000000	71.011500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	142.023000	10.0	10.0	50.0	20.0	+30.0	A
	213.034500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	284.046000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	355.057500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	426.069000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	497.080500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	568.092000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	639.103500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	710.115000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	781.126500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	852.138000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	923.149500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	994.161000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
3.999999	73.011499	10.0	12.0	50.0	22.0	+28.0	A
	146.022998	10.0	13.0	50.0	23.0	+27.0	A
	219.034497	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	292.045996	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	365.057495	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	438.068994	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	511.080493	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	584.091992	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	657.103491	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	730.114990	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	803.126489	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	876.137988	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	949.149487	10.0	< 10.0	50.0	< 20.0	>+30.0	A

Tuning range : 4.000000 MHz - 7.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
4.000000	73.011500	10.0	12.0	50.0	22.0	+28.0	A
	146.023000	10.0	13.0	50.0	23.0	+27.0	A
	219.034500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	292.046000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	365.057500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	438.069000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	511.080500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	584.092000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	657.103500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	730.115000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	803.126500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	876.138000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	949.149500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
7.999999	77.011499	10.0	14.0	50.0	24.0	+26.0	A
	154.022998	10.0	15.0	50.0	25.0	+25.0	A
	231.034497	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	308.045996	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	385.057495	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	462.068994	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	539.080493	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	616.091992	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	693.103491	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	770.114990	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	847.126489	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	924.137988	10.0	< 10.0	50.0	< 20.0	>+30.0	A

Tuning range : 8.000000 MHz - 10.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
8.000000	77.011500	10.0	14.0	50.0	24.0	+26.0	A
	154.023000	10.0	15.0	50.0	25.0	+25.0	A
	231.034500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	308.046000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	385.057500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	462.069000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	539.080500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	616.092000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	693.103500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	770.115000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	847.126500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	924.138000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
10.999999	80.011499	10.0	14.0	50.0	24.0	+26.0	A
	160.022998	10.0	18.0	50.0	28.0	+22.0	A
	240.034497	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	320.045996	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	400.057495	10.0	12.0	50.0	22.0	+28.0	A
	480.068994	10.0	11.0	50.0	21.0	+29.0	A
	560.080493	10.0	11.0	50.0	21.0	+29.0	A
	640.091992	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	720.103491	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	800.114990	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	880.126489	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	960.137988	10.0	< 10.0	50.0	< 20.0	>+30.0	A

Tuning range : 11.000000 MHz - 14.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
11.000000	80.011500	10.0	14.0	50.0	24.0	+26.0	A
	160.023000	10.0	18.0	50.0	28.0	+22.0	A
	240.034500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	320.046000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	400.057500	10.0	12.0	50.0	22.0	+28.0	A
	480.069000	10.0	11.0	50.0	21.0	+29.0	A
	560.080500	10.0	11.0	50.0	21.0	+29.0	A
	640.092000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	720.103500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	800.115000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	880.126500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	960.138000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
14.999999	84.011499	10.0	15.0	50.0	25.0	+25.0	A
	168.022998	10.0	20.0	50.0	30.0	+20.0	A
	252.034497	10.0	10.0	50.0	20.0	+30.0	A
	336.045996	10.0	11.0	50.0	21.0	+29.0	A
	420.057495	10.0	13.0	50.0	23.0	+27.0	A
	504.068994	10.0	11.0	50.0	21.0	+29.0	A
	588.080493	10.0	12.0	50.0	22.0	+28.0	A
	672.091992	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	756.103491	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	840.114990	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	924.126489	10.0	< 10.0	50.0	< 20.0	>+30.0	A

Tuning range : 15.000000 MHz - 21.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
15.000000	84.011500	10.0	15.0	50.0	25.0	+25.0	A
	168.023000	10.0	20.0	50.0	30.0	+20.0	A
	252.034500	10.0	10.0	50.0	20.0	+30.0	A
	336.046000	10.0	10.0	50.0	20.0	+30.0	A
	420.057500	10.0	14.0	50.0	24.0	+26.0	A
	504.069000	10.0	12.0	50.0	22.0	+28.0	A
	588.080500	10.0	12.0	50.0	22.0	+28.0	A
	672.092000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	756.103500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	840.115000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	924.126500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
21.999999	91.011499	10.0	21.0	50.0	31.0	+19.0	A
	182.022998	10.0	21.0	50.0	31.0	+19.0	A
	273.034497	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	364.045996	10.0	14.0	50.0	24.0	+26.0	A
	455.057495	10.0	12.0	50.0	22.0	+28.0	A
	546.068994	10.0	12.0	50.0	22.0	+28.0	A
	637.080493	10.0	13.0	50.0	23.0	+27.0	A
	728.091992	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	819.103491	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	910.114990	10.0	< 10.0	50.0	< 20.0	>+30.0	A

Tuning range : 22.000000 MHz - 29.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
22.000000	91.011500	10.0	21.0	50.0	31.0	+19.0	A
	182.023000	10.0	21.0	50.0	31.0	+19.0	A
	273.034500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	364.046000	10.0	15.0	50.0	25.0	+25.0	A
	455.057500	10.0	20.0	50.0	30.0	+20.0	A
	546.069000	10.0	14.0	50.0	24.0	+26.0	A
	637.080500	10.0	13.0	50.0	23.0	+27.0	A
	728.092000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	819.103500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	910.115000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
29.999999	99.011499	10.0	20.0	50.0	30.0	+20.0	A
	198.022998	10.0	18.0	50.0	28.0	+22.0	A
	297.034497	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	396.045996	10.0	14.0	50.0	24.0	+26.0	A
	495.057495	10.0	23.0	50.0	33.0	+17.0	A
	594.068994	10.0	13.0	50.0	23.0	+27.0	A
	693.080493	10.0	11.0	50.0	21.0	+29.0	A
	792.091992	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	891.103491	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	990.114990	10.0	< 10.0	50.0	< 20.0	>+30.0	A

Tuning range : 30.000000 MHz - 49.999999 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
30.000000	99.011500	10.0	20.0	50.0	30.0	+20.0	A
	198.023000	10.0	17.0	50.0	27.0	+23.0	A
	297.034500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	396.046000	10.0	14.0	50.0	24.0	+26.0	A
	495.057500	10.0	17.0	50.0	27.0	+23.0	A
	594.069000	10.0	13.0	50.0	23.0	+27.0	A
	693.080500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	792.092000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	891.103500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	990.115000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
40.000000	109.011500	10.0	20.0	50.0	30.0	+20.0	A
	218.023000	10.0	18.0	50.0	28.0	+22.0	A
	327.034500	10.0	12.0	50.0	22.0	+28.0	A
	436.046000	10.0	21.0	50.0	31.0	+19.0	A
	545.057500	10.0	14.0	50.0	24.0	+26.0	A
	654.069000	10.0	17.0	50.0	27.0	+23.0	A
	763.080500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	872.092000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	981.103500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
49.999999	119.011499	10.0	23.0	50.0	33.0	+17.0	A
	238.022998	10.0	19.0	50.0	29.0	+21.0	A
	357.034497	10.0	21.0	50.0	31.0	+19.0	A
	476.045996	10.0	29.0	50.0	39.0	+11.0	A
	595.057495	10.0	14.0	50.0	24.0	+26.0	A
	714.068994	10.0	13.0	50.0	23.0	+27.0	A
	833.080493	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	952.091992	10.0	< 10.0	50.0	< 20.0	>+30.0	A

Tuning range : 50.000000 MHz - 60.000000 MHz

Frequency to which tuned [MHz]	Measured Frequency [MHz]	Correction Factor [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
50.000000	119.011500	10.0	22.0	50.0	32.0	+18.0	A
	238.023000	10.0	19.0	50.0	29.0	+21.0	A
	357.034500	10.0	21.0	50.0	31.0	+19.0	A
	476.046000	10.0	18.0	50.0	28.0	+22.0	A
	595.057500	10.0	13.0	50.0	23.0	+27.0	A
	714.069000	10.0	13.0	50.0	23.0	+27.0	A
	833.080500	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	952.092000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
60.000000	129.011500	10.0	25.0	50.0	35.0	+15.0	A
	258.023000	10.0	15.0	50.0	25.0	+25.0	A
	387.034500	10.0	19.0	50.0	29.0	+21.0	A
	516.046000	10.0	< 10.0	50.0	< 20.0	>+30.0	A
	645.057500	10.0	13.0	50.0	23.0	+27.0	A
	774.069000	10.0	10.0	50.0	20.0	+30.0	A
	903.080500	10.0	< 10.0	50.0	< 20.0	>+30.0	A

Other Disturbance Frequency

Frequency [MHz]	Correction Factor [dB]	Meter Readings [dB(μV)]	Limits at 50Ω [dB(μV)]	Results [dB(μV)]	Margin [dB]	Remarks (Note 2)
40.0	10.0	< 10.0	50.0	< 20.0	>+30.0	A
60.0	10.0	< 10.0	50.0	< 20.0	>+30.0	A
120.0	10.0	< 10.0	50.0	< 20.0	>+30.0	A
469.9	10.0	< 10.0	50.0	< 20.0	>+30.0	A
479.8	10.0	< 10.0	50.0	< 20.0	>+30.0	A
489.8	10.0	< 10.0	50.0	< 20.0	>+30.0	A
509.8	10.0	< 10.0	50.0	< 20.0	>+30.0	A
549.8	10.0	< 10.0	50.0	< 20.0	>+30.0	A
660.0	10.0	< 10.0	50.0	< 20.0	>+30.0	A
840.0	10.0	< 10.0	50.0	< 20.0	>+30.0	A
900.0	10.0	< 10.0	50.0	< 20.0	>+30.0	A

Sample of calculated result at 476.045996 MHz, as the Minimum Margin point:

Correction Factor	=	10.0 dB
+)Meter Reading	=	29.0 dB(μV)
Result	=	39.0 dB(μV)

Minimum Margin : 50.0 - 39.0 = 11.0(dB)
The point shown on "___ " is the Minimum Margin Point.

Conversion of applied limits (refer to § 15.111(a))
$50.0\ [dB(\mu V)] = 20\log\{\sqrt{2[nW]\times10^{-9}\times50[\Omega]}\times10^{6}\}$

Note 1:
1)The highest frequency generated or used in the EUT: 129.011500 MHz
2)The upper frequency of measurement range : 1000 MHz
3)The spectrum was scanned 30 MHz to 1000 MHz and all emissions not reported were more than 20dB below the applied limits.
4)Correction Factor = 10dB Pad Attenuator (dB)

Remarks:

Note 2	Detector Function	IF Bandwidth
A	CISPR QP	120 kHz
B	Average	120 kHz
C	Average	12 kHz
D	Average	7.5 kHz

Tester Signature : A. Hosoda

Type Name : Akio Hosoda