



TEST REPORT

REPORT NUMBER : ANKK-103253

APPLICANT : CANON INC.

MODEL NUMBER : Memory TAG 1

FCC ID : AZDMTG1

REGULATION : FCC Part15C Section 15.207
Section 15.209

Akzo Nobel K. K.
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Kashima Site

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ABBREVIATIONS

LISN = Line Impedance Stabilization Network

AMN = Artificial Mains Network

ISN = Impedance Stabilization Network

CDN = Coupling Decoupling Network

ANT = Antenna

BBA = Broadband Antenna

DIP = Dipole Antenna

AMP = Amplifier

ATT = Attenuator

EUT = Equipment Under Test

AE = Associated Equipment

Q-P = Quasi-peak

AVG = Average

SECTION 1. TEST CERTIFICATION**APPLICANT INFORMATION**

Company	: CANON INC.
Address	: 7-5-1, Hakusan, Toride-shi, Ibaraki-ken, 302-8501 Japan
Telephone number	: +81 297 77 2111
Fax number	: +81 297 74 2454

DESCRIPTION OF TEST ITEM

Kind of equipment	: RF Memory TAG System
Condition of equipment	: Pre production
Type	: Built - in (Copier / Printer)
Trademark	: Canon
FCC ID	: AZDMTG1
Model number	: Memory TAG 1
Serial number	: None

TEST PERFORMED

Location	: Kashima No. 3 Test Site
EUT received	: September 24, 2003
Test started	: September 25, 2003
Test completed	: November 18, 2003
Regulation	: RCC Part15 Subpart C Section 15.207 / 15.209 Intentional Radiators
Test setup	: ANSI C63.4-2001

Report issue date : November 18, 2003

Test engineer : Naoki Sagawa



Report approved by : Takeshi Yamanaka
[Site Manager]



On the basis of the measurements made, the equipment tested is capable of operation in compliance with the requirements of Part 15 of the FCC Rules under normal use and maintenance.

Note

- The test result of this report is effective for equipment under test itself and under the test configuration described on the report.
- This test report does not assure that whether the test result taken in other testing laboratory is compatible or reproducible to the test result on this report or not.
- This test report shall not be reproduced except in full, without issuer's permission.

SECTION 2. CONCLUSION

This test report clearly shows that the EUT is in compliance with the FCC Part15C Section15.207 & Section15.209 specification.

The minimum margins to the limits are as follows:

AC Conducted Emission (AV)	0.6 dB	at	0.6892 MHz
Spurious Emissions - Radiated Emission Test	15.2 dB	at	67.75 MHz

Note : See Section 9 for details.

SECTION 3. EQUIPMENT UNDER TEST

The equipment under test (EUT) consisted of the following equipment.
Indication in the following left side column corresponds to Section 6.

Symbol	Item	Model No.	Serial No.	FCC ID / DoC	Manufacturer	Remarks
A)	RF Memory TAG System	Memory TAG 1	None	AZDMTG1	Canon	Interface PCB
B)	RF Memory TAG System	Memory TAG 1	None	AZDMTG1	Canon	Coil PCB (RF Antenna)
C)	RF Memory TAG System	Memory TAG 1	None	AZDMTG1	Canon	Memory TAG

Power ratings of EUT : DC 5V, 24V

3.1 Overview of EUT :

Carrier Frequency : 13.56 MHz
 Modulation Method : Transmitting – Amplitude Shift Keying
 : Receiving – Bi-Phase Shift Keying
 RF Output Power : 31.7 dBuV/m (Measurement Distance : 3.0 m)

3.2 Port(s)/Connector(s) :

Port name	Connector type	Connector pin	Remarks
J041-408	Mini CT type	3 pin	for Antenna (×8)
J400	CZ type	14 pin	for Controller in Copier

3.3 RF Operation Frequency :

Oscillator	Operating	Board name	Remarks
13.56 MHz	13.56 MHz	Interface PCB	
13.56 MHz	13.56 MHz	Momory Tag	

SECTION 4. SUPPORT EQUIPMENT USED

The EUT was supported by the following equipment during the test.
Indication in the following left side column corresponds to Section 6.

Symbol	Item	Model No.	Serial No.	FCC ID / DoC	Manufacturer	Remarks
	D) Digital Copier	F142500	None	N.A.	Canon	

Power ratings of Digital Copier : AC 120V, 60 Hz, 11 A

SECTION 5. CABLE (S) USED

The following cable(s) was used for the test.

Indication number in the following left side column corresponds to Section 6.

Number	Name	Length	Shield	Connector	Core
1)	RF Antenna cable	0.10 m	None	Plastic	
2)	DC Upper Lead Wires	0.61 m	None	Plastic	
3)	Power cable for Digital Copier	2.50 m	None		

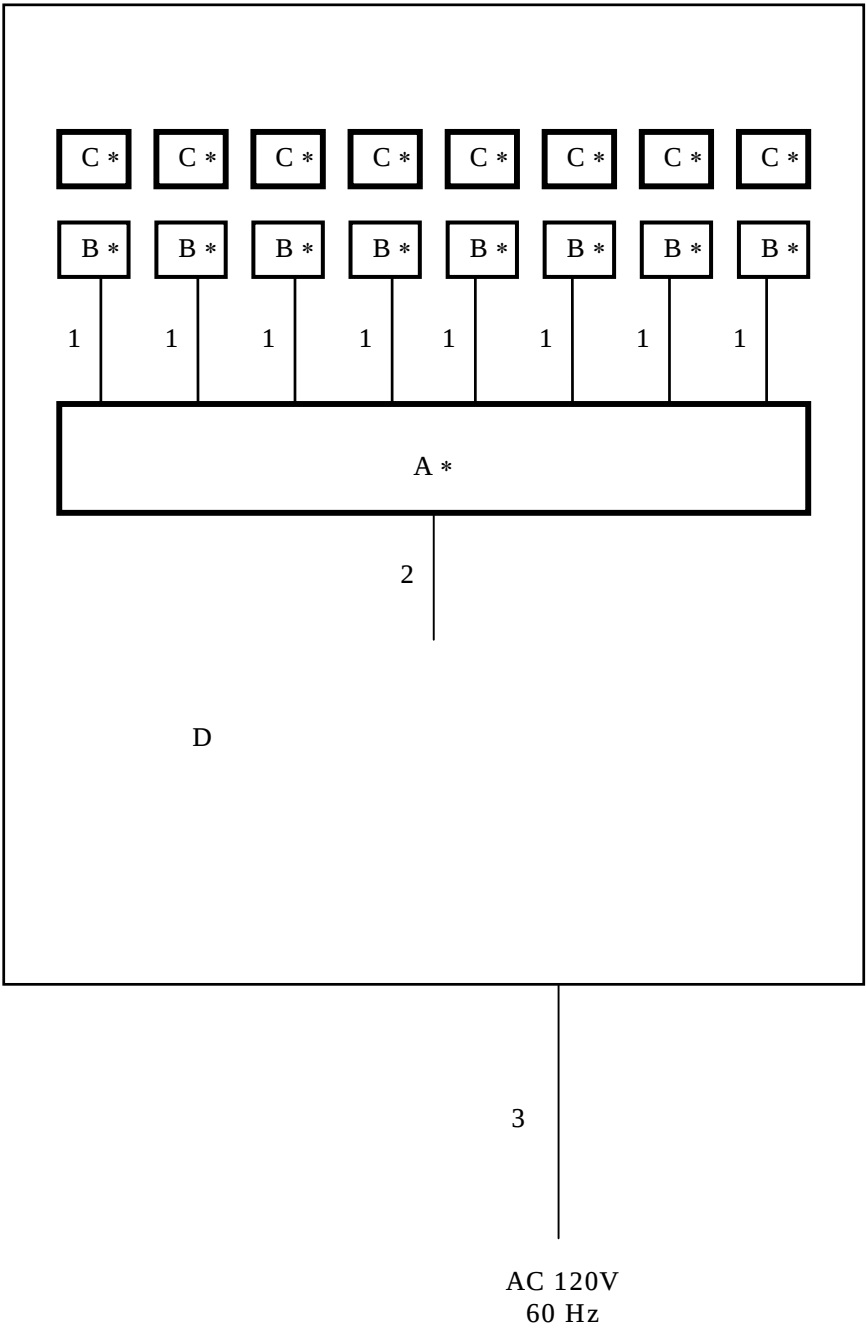
Note : a. No ferrite core is attached to the outer cables.

SECTION 6. CONSTRUCTION OF EQUIPMENT

The construction of EUT during the test was as follows.

System configuration

* : EUT



Symbols or numbers assigned to equipment or cables on this diagram are corresponded to the symbols or numbers assigned to equipment or cables on tables in Sections 3 to 5.

SECTION 7. OPERATING CONDITIONS

The EUT was operated under the following conditions during the test.

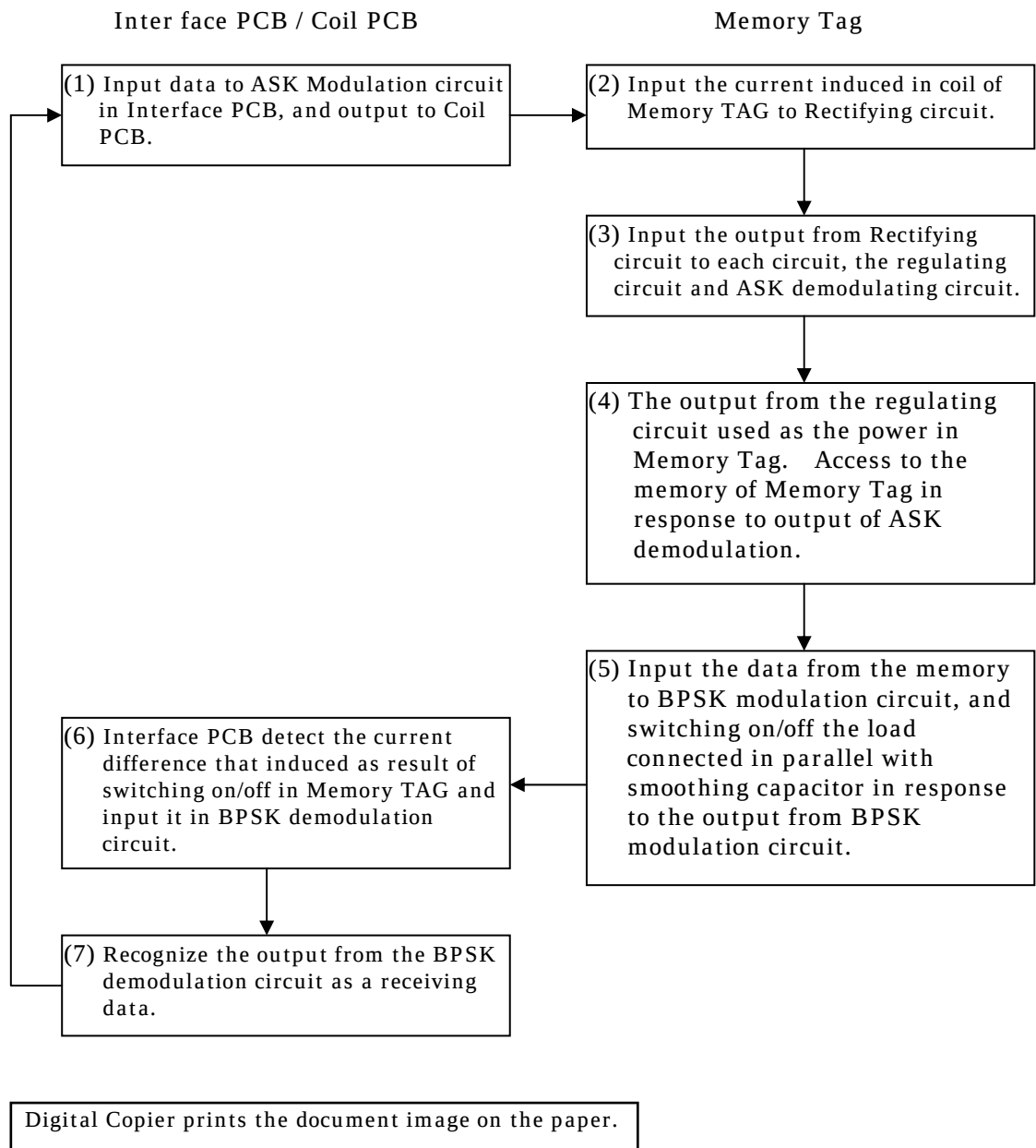
7.1 Operating condition

The test was carried out under TX / RX mode

EUT was examined in the operating conditions that had maximum emissions.

7.2 Operating flow [TX / RX mode]

Following operations were performed continuously.

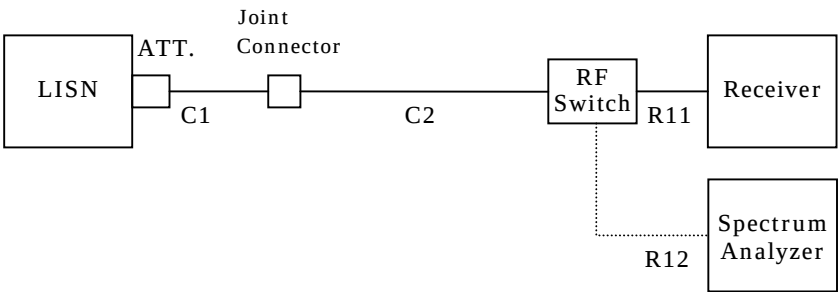


SECTION 8. TEST PROCEDURE(S)

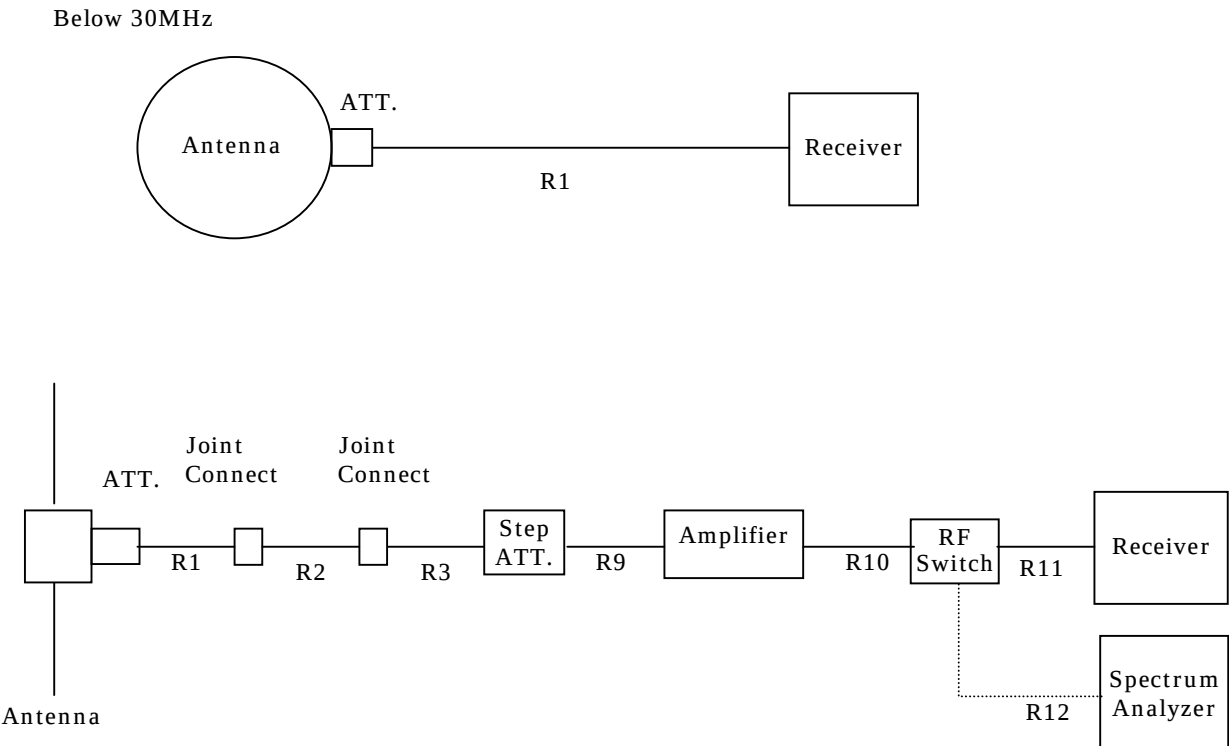
Test was carried out under the following conditions.
Test was carried out with no deviations from standards and test methods.

Subject	Test procedure	Scanned frequency
AC Conducted Emission	Akzo Nobel Document number : 03-10-004	0.150 – 30 MHz
Spurious Emissions - Radiated Emission Test	Akzo Nobel Document number : 03-10-003	10 – 1000 MHz

Schema for the AC conducted emission measurement



Schema for the radiated emission measurement



Summary ;

8.1 AC Conducted Emission

8.1.1 Equipment Setup

System configuration and Equipment setup are shown on Section 6 and Annex A.

8.1.1.1 Floor standing Equipment

EUT is placed on the metal ground plane. A polyvinyl chloride sheet is spread on the turntable to keep isolation between EUT and metal ground plane.

8.1.1.2 Interconnecting Cables

If possible, excess part of the interconnecting cables are bundled. Bundling is not to exceed 40 cm.

8.1.1.3 AC Power Cable

AC power cable for EUT is connected to one LISN which is placed on the ground plane. The LISN is placed in 80 cm from the nearest part of EUT chassis.
The excess power cable is bundled in the center, or shortened to appropriate length.

8.1.2 Measuring Instruments

Measuring instruments list and their calibration schedule are shown on Section 11.
The brief description are as follows;

8.1.2.1 Spectrum Analyzer

The Spectrum analyzer is used for preliminary measurement.

8.1.2.2 EMI Test Receiver

The Quasi-peak detector (IF bandwidth : 10 kHz) and average detector (IF bandwidth : 10 kHz) built in test receiver is used for final measurement.
The test receiver is complied with the specification of the CISPR publication 16.

8.1.2.3 LISN

The 50 μ H//50 Ω LISN are used. The chassis of the LISN is bonded to the ground plane by the copper blade.
The LISN is connected to the EUT.

8.1.3 Test Procedure

8.1.3.1 Preliminary Measurement

EUT is tested on all operating conditions.
The spectrum analyzer is controlled by the computer program to sweep the frequency range to be measured, then spectrum chart are plotted out to find the worst emission conditions in operating mode and/or configuration decision for the final test.
All leads other than safety ground are tested.

8.1.3.2 Final Measurement

The EUT is operated in the worst emission condition found by the preliminary test. The equipment and cables are arranged or manipulated within the range of the test standard in the above condition.
At least six highest spectrum are measured in quasi-peak and average (if necessary) using the test receiver.

8.2 Radiated Emission Test

8.2.1 Equipment Setup

System configuration and Equipment setup are shown on Section 6 and Annex A.

8.2.1.1 Floor standing Equipment

EUT is placed on the turntable. A polyvinyl chloride sheet is spread on the turntable to keep isolation between EUT and metal ground plane.

8.2.1.2 Interconnecting Cables

If possible, the excess part of the interconnecting cables are bundled. Bundling is not exceed 40 cm long.

8.2.2 Measuring Instruments

Measuring instruments list and calibration schedule are shown on Section 11.
The brief description are as follows;

8.2.2.1 Antennas

The Loop antenna is used for Magnetic field measurements on the frequency range 0.009 – 30 MHz.

The broadband Tri-Log antenna is used for Electric field measurements on the frequency range 30 – 1000 MHz.

If uncertain result was obtained, the broadband antenna is replaced by the half wave length dipole, then measurement is carried out over again.

8.2.2.2 Pre-amplifier

The broadband pre-amplifier is used for Radiated Electric Field measurement.
The signal to noise ratio is improved by using pre-amplifier.

8.2.2.3 Spectrum Analyzer

The spectrum analyzer is used for preliminary measurement of frequency range 0.009 – 1000 MHz

8.2.2.4 EMI Test Receiver

The Quasi-peak detector (IF bandwidth : 10 kHz) built in test receiver is used for final measurement of the frequency 0.009 – 30 MHz.

The Quasi-peak detector (IF bandwidth : 120 kHz) built in test receiver is used for final measurement of the frequency 30 – 1000 MHz.

The test receiver is complied with the specification of the CISPR publication 16.

8.2.2.5 Turntable

The turntable is capable for EUT weight and rotatable 0 to 360 degree horizontally by remote control in the test room.

8.2.2.6 Antenna Mast

< Magnetic field >

The antenna mast is attachable to the Loop antenna and antenna's center height is adjustable 1 meter above the ground. Antenna position is changed vertically and horizontally.

< Electric field >

The antenna mast is attachable to The broadband Tri-Log and antenna height is adjustable 1 to 4 meters continuously by remotecontrol at the test room, and antenna polarization is also changed by the remote control.

8.2.3 Test Procedure

8.2.3.1 Preliminary Measurement

EUT is tested on all operating conditions.

The spectrum analyzer is set max-hold mode and swept during turntable was rotated 0 to 360 degree. Then spectrum chart are plotted out to find the worst emission conditions in configuration, operating mode, or ambient noise notation.

8.2.3.2 Final Measurement

The EUT operated in the worst emission condition found by the preliminary test.

The turntable azimuth (EUT direction) and antenna height are adjusted the position so that maximum field strength is obtained for each frequency spectrum to be measured. The equipment and cables are arranged or manipulated within the range of the test standard in the above condition.

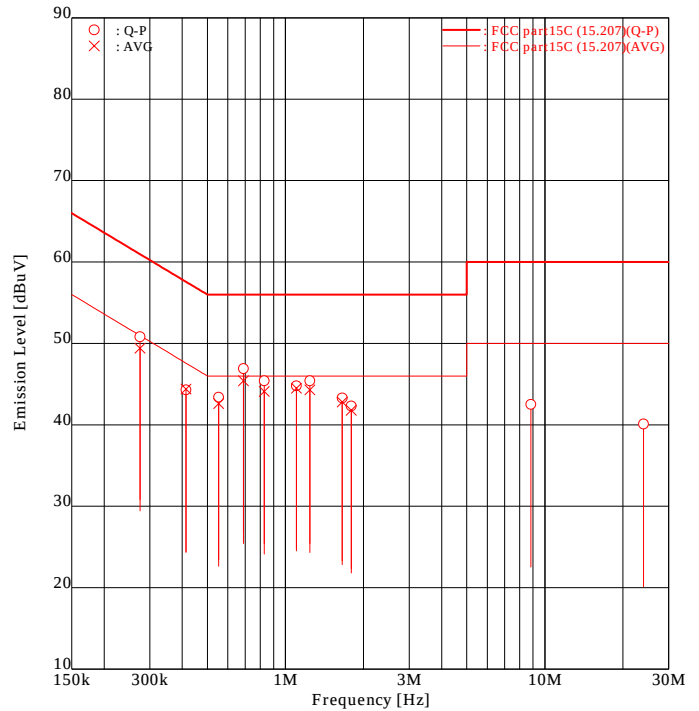
When the uncertain result was obtained, the measurement is retried by using the half wave dipole antenna instead of the broadband antenna.

SECTION 9. EVALUATION OF TEST RESULTS

9.1 AC Conducted Emission (Section15.207)

Akzo Nobel K. K. Kashima No.3 Test Site AC Conducted Emission Test

APPLICANT : CANON INC.
 EUT NAME : RF Memory Tag System
 MODEL NO. : Memory Tag 1
 SERIAL NO. : None
 TEST MODE : TX (ASK) / RX (BPSK) : 13.56MHz
 POWER SOURCE : DC 5V , 24V
 DATE TESTED : Oct 29 2003
 FILE NO. : ANKK-103253
 REGULATION : FCC part15C (15.207)
 TEST METHOD : ANSI C63.4-2001
 TEMPERATURE : 21.0 [degC]
 HUMIDITY : 62.0 [%]
 NOTE :



ENGINEER : Naoki Sagawa

FREQUENCY [No]	MODE [MHz]		READING [dBuV]		FACTOR [dB]		EMISSION [dBuV]		LIMIT [dBuV]	MARGIN [dB]	
			Line1	Line2	Line1	Line2	Line1	Line2		Line1	Line2
1	0.2749	Q-P	42.2	44.2	6.6	6.6	48.8	50.8	61.0	12.2	10.2
2	0.2749	AVG	41.7	<u>42.8</u>	6.6	6.6	48.3	<u>49.4</u>	51.0	2.7	<u>1.6</u>
3	0.4137	Q-P	37.3	37.6	6.6	6.7	43.9	44.3	57.6	13.7	13.3
4	0.4137	AVG	<u>37.8</u>	36.4	6.6	6.7	<u>44.4</u>	43.1	47.6	<u>3.2</u>	4.5
5	0.5525	Q-P	36.8	36.5	6.6	6.7	43.4	43.2	56.0	12.6	12.8
6	0.5525	AVG	36.0	35.3	6.6	6.7	42.6	42.0	46.0	3.4	4.0
7	0.6892	Q-P	40.2	40.2	6.6	6.7	46.8	46.9	56.0	9.2	9.1
8	0.6892	AVG	38.7	<u>38.7</u>	6.6	6.7	45.3	<u>45.4</u>	46.0	0.7	<u>0.6</u>
9	0.8279	Q-P	38.8	38.0	6.6	6.7	45.4	44.7	56.0	10.6	11.3
10	0.8279	AVG	<u>37.5</u>	37.0	6.6	6.7	<u>44.1</u>	43.7	46.0	<u>1.9</u>	2.3
11	1.1036	Q-P	38.1	37.9	6.7	6.8	44.8	44.7	56.0	11.2	11.3
12	1.1036	AVG	37.5	<u>37.7</u>	6.7	6.8	44.2	<u>44.5</u>	46.0	1.8	<u>1.5</u>
13	1.2413	Q-P	38.7	38.1	6.7	6.8	45.4	44.9	56.0	10.6	11.1
14	1.2413	AVG	37.5	<u>37.5</u>	6.7	6.8	44.2	<u>44.3</u>	46.0	1.8	<u>1.7</u>
15	1.6548	Q-P	36.5	36.5	6.7	6.8	43.2	43.3	56.0	12.8	12.7
16	1.6548	AVG	36.0	<u>36.0</u>	6.7	6.8	42.7	<u>42.8</u>	46.0	3.3	<u>3.2</u>
17	1.7922	Q-P	34.5	35.5	6.7	6.8	41.2	42.3	56.0	14.8	13.7
18	1.7922	AVG	33.8	35.0	6.7	6.8	40.5	41.8	46.0	5.5	4.2
19	8.8312	Q-P	35.5	30.0	7.0	7.1	42.5	37.1	60.0	17.5	22.9
20	23.9921	Q-P	32.9	30.8	7.2	7.6	40.1	38.4	60.0	19.9	21.6

Higher six points are underlined.
 Other frequencies : Below the FCC part15C (15.207) limit
 Emission Level = Read + Factor(LISN,Pad,Cable)

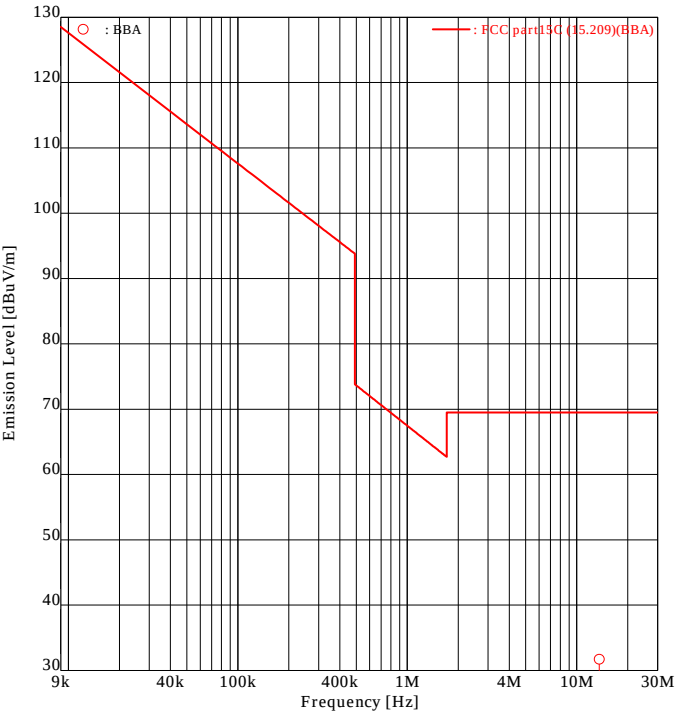
9.2 Spurious Emissions - Radiated (Section15.209)

9.2.1 9 kHz - 30 MHz

Akzo Nobel K. K.
Kashima No.3 Test Site
Spurious Emission - Radiated Test

APPLICANT : CANON INC.
EUT NAME : RF Memory Tag System
MODEL NO. : Memory Tag1
SERIAL NO. : None
TEST MODE : TX (ASK) / RX (BPSK) : 13.56MHz
POWER SOURCE : DC 5V , 24V
DATE TESTED : Nov 18 2003
FILE NO. : ANKK-103253
REGULATION : FCC part15C (15.209)
TEST METHOD : ANSI C63.4:2001
DISTANCE : 3.0 [m]
TEMPERATURE : 20.0 [degC]
HUMIDITY : 61.0 [%]
NOTE :

ENGINEER : Naoki Sagawa



FREQUENCY		READING		FACTOR		EMISSION		LIMIT		MARGIN	
[No]	[MHz]	[dBuV]		[dB]		[dBuV/m]		[dBuV/m]		[dB]	
		Hori	Vert	Hori	Vert	Hori	Vert	Hori	Vert	Hori	Vert
1	13.5646	46.5	<u>53.0</u>	-21.3	-21.3	25.2	<u>31.7</u>	69.5	44.3	<u>37.8</u>	
2	27.1190	41.5	<u>43.0</u>	-19.0	-19.0	22.5	<u>24.0</u>	69.5	47.0	<u>45.5</u>	

Higher six points are underlined.
Other frequencies : Below the FCC part15C (15.209) limit
Emission Level = Read + Factor(Antenna,Pad,Cable,Preamplifier)

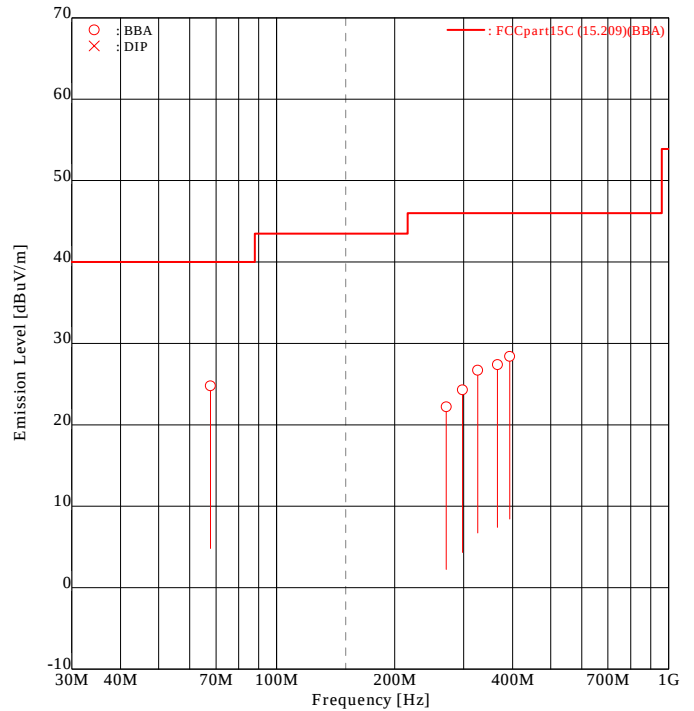
9.2.2 30 MHz - 1000 MHz

Akzo Nobel K. K.

Kashima No.3 Test Site

Spurious Emissions - Radiated Test

APPLICANT : CANON INC.
 EUT NAME : RF Memory Tag System
 MODEL NO. : Memory Tag 1
 SERIAL NO. : None
 TEST MODE : TX (ASK) / RX (BPSK) : 13.56MHz
 POWER SOURCE : DC 5V , 24V
 DATE TESTED : Sep 25 2003
 FILE NO. : ANKK-103253
 REGULATION : FCCpart15C (15.209)
 TEST METHOD : ANSI C63.4:2001
 DISTANCE : 3.0 [m]
 TEMPERATURE : 21.0 [degC]
 HUMIDITY : 62.0 [%]
 NOTE :



ENGINEER : Naoki Sagawa

FREQUENCY [No]	ANT. [MHz]		READING [dBuV]		FACTOR [dB/m]		EMISSION [dBuV/m]		LIMIT [dBuV/m]	MARGIN [dB]	
			Hori	Vert	Hori	Vert	Hori	Vert		Hori	Vert
1	67.75	BBA	-	<u>34.1</u>	-9.3	-9.3	-	<u>24.8</u>	40.0	-	<u>15.2</u>
2	270.99	BBA	-	<u>29.0</u>	-6.8	-6.8	-	<u>22.2</u>	46.0	-	<u>23.8</u>
3	298.03	BBA	<u>29.8</u>	-	-5.5	-5.5	<u>24.3</u>	-	46.0	<u>21.7</u>	-
4	325.62	BBA	<u>31.5</u>	-	-4.8	-4.8	<u>26.7</u>	-	46.0	<u>19.3</u>	-
5	365.85	BBA	<u>31.0</u>	30.2	-3.6	-3.6	<u>27.4</u>	26.6	46.0	<u>18.6</u>	19.4
6	392.92	BBA	<u>31.0</u>	-	-2.6	-2.6	<u>28.4</u>	-	46.0	<u>17.6</u>	-

Higher six points are underlined.

Other frequencies : Below the FCCpart15C (15.209) limit

Emission Level = Read + Factor(Antenna,Antenna Pad,Cable,Preamp)

ANT. : Used antenna(BBA = Broadband antenna, DIP = Dipole antenna)

9.3 Sample Calculations

9.3.1 AC Conducted Emission (Section 15.207)

Example @ 0.6892 MHz (AV)

Emission Level	=	Meter Reading		38.7	dBuV
	+	Factor		6.7	dB
			=	45.4	dBuV
Margin	=	Limit		46.0	dBuV
	-	Emission Level		45.4	dBuV
			=	0.6	dB

Factor = LISN Factor + Cable Loss + Pad Loss

9.3.2 Spurious Emission – Radiated (Section 15.209)

Example @ 67.75 MHz

Emission Level	=	Meter Reading		34.1	dBuV
	+	Factor		-9.3	dB/m
			=	24.8	dBuV/m
Margin	=	Limit		40.0	dBuV/m
	-	Emission Level		24.8	dBuV/m
			=	15.2	dB

Factor = Antenna Factor + Cable Loss – Amplifier Gain + Pad Loss

SECTION 10. INSTRUMENTS USED FOR FINAL TEST

Instrument	Model No.	Serial No.	Manufacturer	Last cal. date	Period
LISN (EUT)	ESH2-Z5	879675/014	ROHDE & SCHWARZ	Jun. 19, 03	1 Year
6dB Attenuator	CFA-01	None	TME	Jan. 15, 03	1 Year
Coaxial cable	RG-5A/U(7.2 m)	C1	AKZO	Jan. 15, 03	1 Year
	RG-5A/U(4.0 m)	C2	AKZO	Jan. 15, 03	1 Year
	RG-5A/U(1.1 m)	R11	AKZO	Jan. 15, 03	1 Year
	RG-5A/U(1.0 m)	R12	AKZO	Jan. 15, 03	1 Year
Broad Band antenna	VULB9168	107	Schwarzbeck	Jul. 15, 03	1 Year
Loop antenna	HFH2-Z2	882964/29	ROHDE & SCHWARZ	Jul. 22, 03	1 Year
6dB Attenuator	MP721B	M56993	ANRITSU	Jan. 15, 03	1 Year
Step Attenuator	8494B	2406A09036	HEWLETT PACKARD	Jan. 15, 03	1 Year
Amplifier	8447D	2443A03849	HEWLETT PACKARD	Jan. 15, 03	1 Year
Coaxial cable	RG-5A/U(12.3 m)	R1	AKZO	Jan. 15, 03	1 Year
	23D-4AF(10.0 m)	R2	AKZO	Jan. 15, 03	1 Year
	RG-5A/U(1.8 m)	R3	AKZO	Jan. 15, 03	1 Year
	RG-5A/U(0.2 m)	R9	AKZO	Jan. 15, 03	1 Year
	RG-5A/U(0.4 m)	R10	AKZO	Jan. 15, 03	1 Year
	RG-5A/U(1.1 m)	R11	AKZO	Jan. 15, 03	1 Year
Test receiver	ESH2	891678/010	ROHDE & SCHWARZ	Jul. 11, 03	1 Year
	ESS (Firmware Version 1.08)	842886/011	ROHDE & SCHWARZ	Mar. 19, 03	1 Year
RF Switch	ACX-150	None	AKZO	Jan. 15, 03	1 Year
Site Attenuation				Jun. 03, 03	1 Year

Note : Test instruments are calibrated according to Quality Manual and Calibration Rules of EMC division.

SECTION 11. MEASUREMENT UNCERTAINTY

The uncertainty of the measurements performed for this report lies:

Spurious Emission - Radiated at 3m		
0.01 MHz – 30 MHz	+/-	2.50 dB
30 MHz – 1000 MHz	+/-	4.07 dB
AC Conducted Emission		
9 kHz – 30 MHz	+/-	2.45 dB

Note on Radiated Electric Field measurement uncertainty

The following items are not included in the calculations in spite of their own uncertainty components because it is impracticable to find the value.

It is our problem awaiting solution in future.

(1) Repeatability of measurement

It is not possible to calculate repeatability since the measurement was carried out only one time.

(2) Antenna factor variation

The definition of measured (radiated electric field strength) is not completed on the referred standard(s).

(3) Loss of EUT radiation propagation

It is certainly one of the uncertainty components, however is not able to calculate.

Please note that these uncertainties are not reflected to the compliance judgement of the test results in this report.

SECTION 12. DESCRIPTION OF TEST LABORATORY

12.1 Outline of Akzo Nobel K. K. (formerly Akzo Kashima Limited), EMC Division

Akzo Nobel K. K., the country organization in Japan for Akzo Nobel NV, was established in 1968. The shares are owned by Akzo Nobel NV (100%). Akzo Nobel NV, headquartered in the Netherlands, is one of the world's leading companies in selected areas of chemicals, coatings, healthcare products and fibers with work force of approximately 70,000 people in over 50 countries.

In 1984, in order to respond to the growing testing demand, in particular, for FCC filing, Akzo Nobel K. K. started EMI testing business, installing the first open air test site in Kashima, Ibaraki prefecture. Further the business has been expanded by installing additional testing facilities not only in Ibaraki but also in other areas such as Shizuoka, Nagano, Kanagawa and Tochigi. As results, Akzo Nobel K. K. has now 16 open air test sites and 4 anechoic chambers for EMI/EMC testing. As the largest EMC testing laboratory in number of testing facilities and staffs, EMC Division has been organized separately in the company and independently operated in conformity with the requirements of ISO/IEC17025 for its competency as a testing laboratory.

Akzo Nobel K. K. EMC Division is the first foreign private laboratory accredited by NVLAP, National Voluntary Laboratory Accreditation Program-NIST, USA. The division has been certified, authorized and/or filed as a competent testing laboratory by various testing organizations/authorities as described below.

12.2 Filing, certification, authorization and accreditation list

EMI/EMC testing

FCC	(USA)
NVLAP	(USA)
NEMKO	(Norway)
VCCI	(Japan)
VLAC	(Japan)
ETL SEMKO	(Sweden)
TÜV PRODUCT SERVICE	(Germany)
BSMI	(Taiwan)

Telecommunications terminal testing

FCC	(USA)
NVLAP	(USA)
NATA	(Australia)
IC	(Canada)

Note 1 : NVLAP accreditation does not constitute any product endorsement by NVLAP or any agent of the U.S. Government.