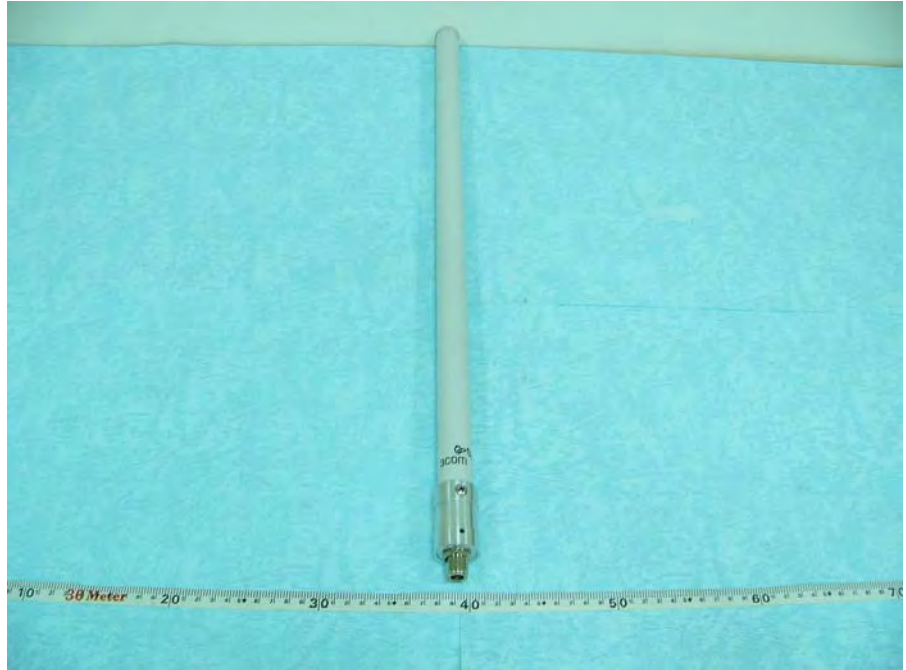
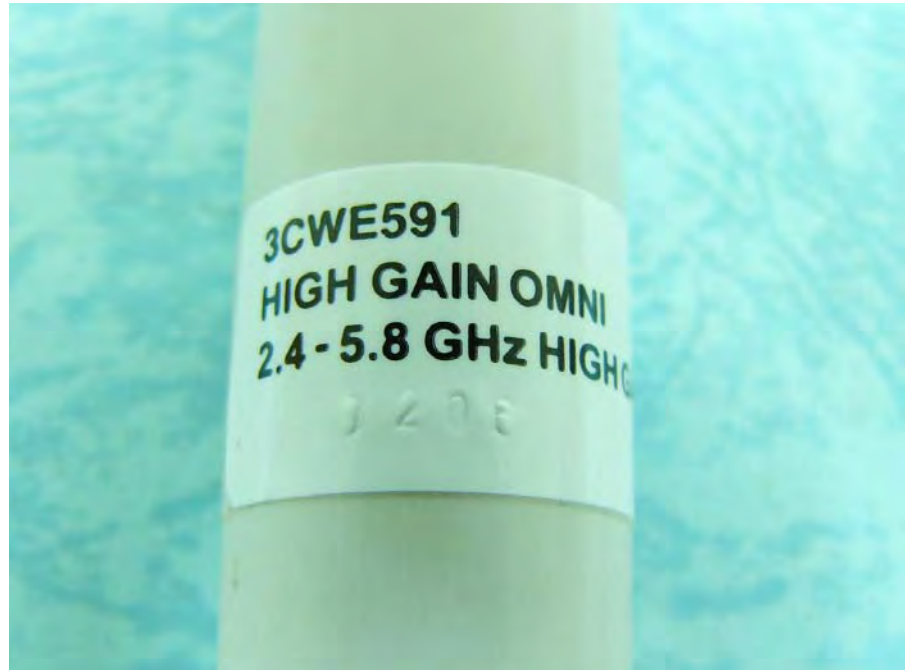


Antenna 1

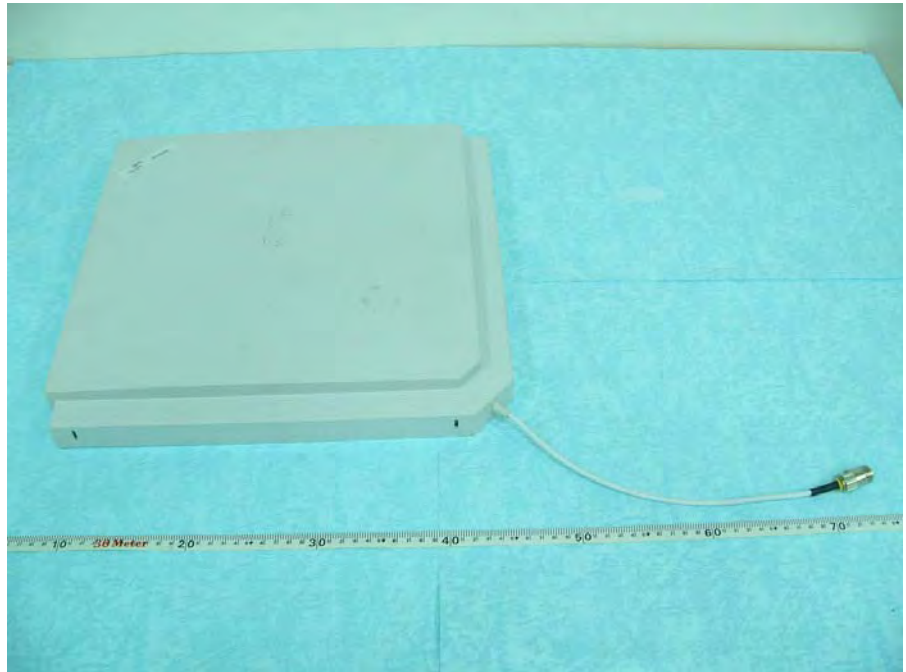


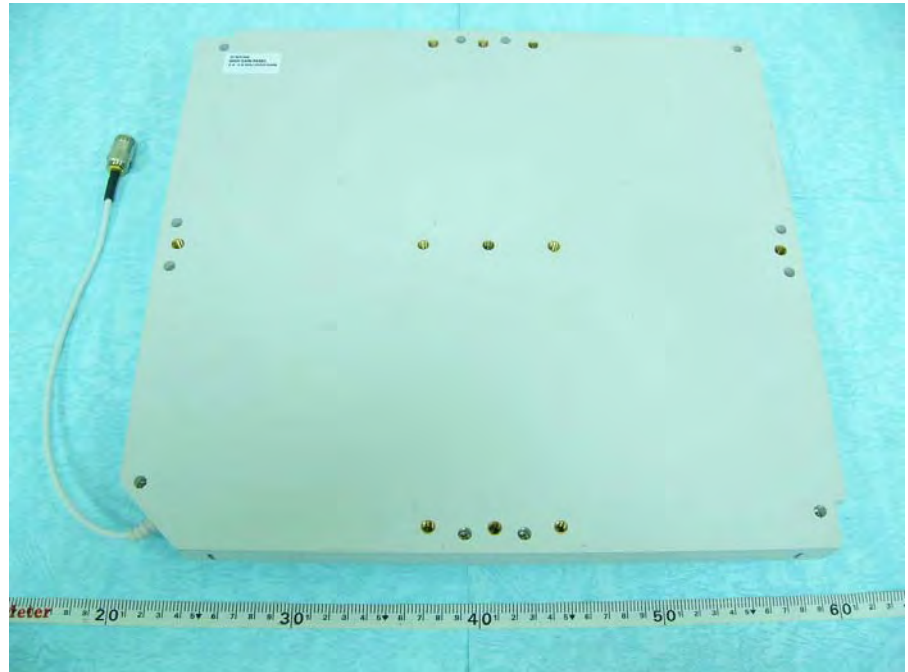




Antenna 2



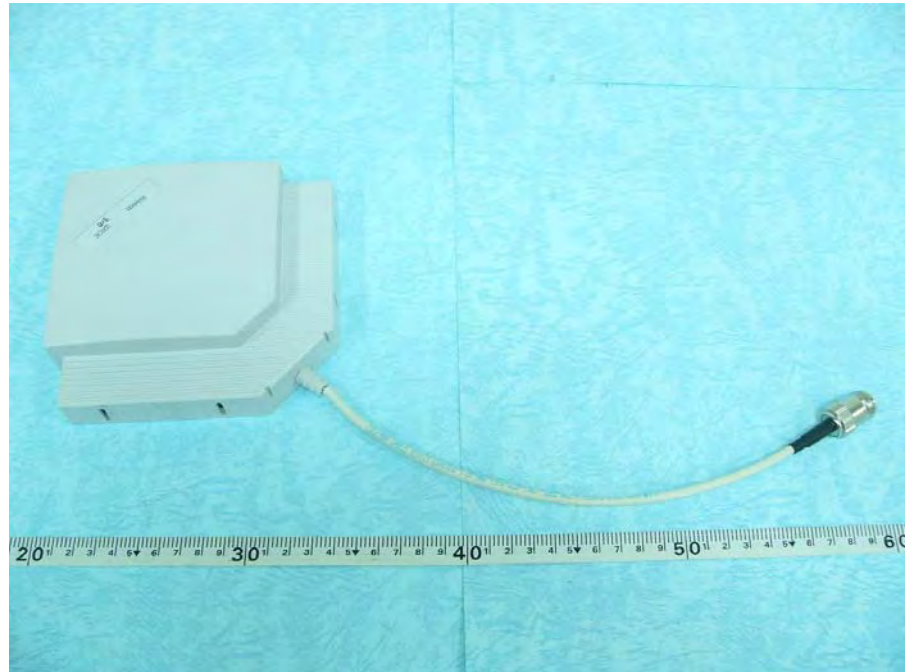


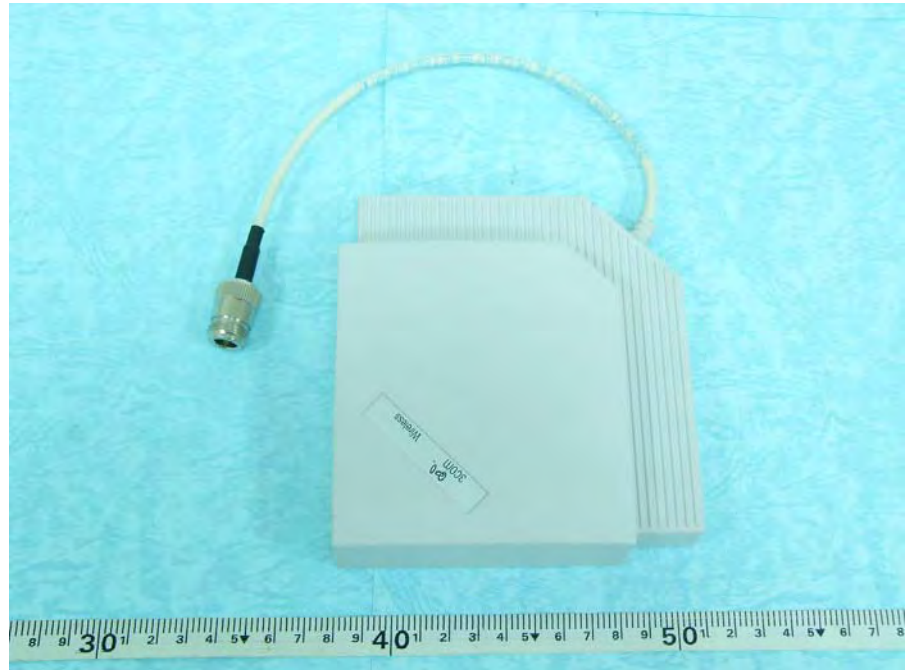


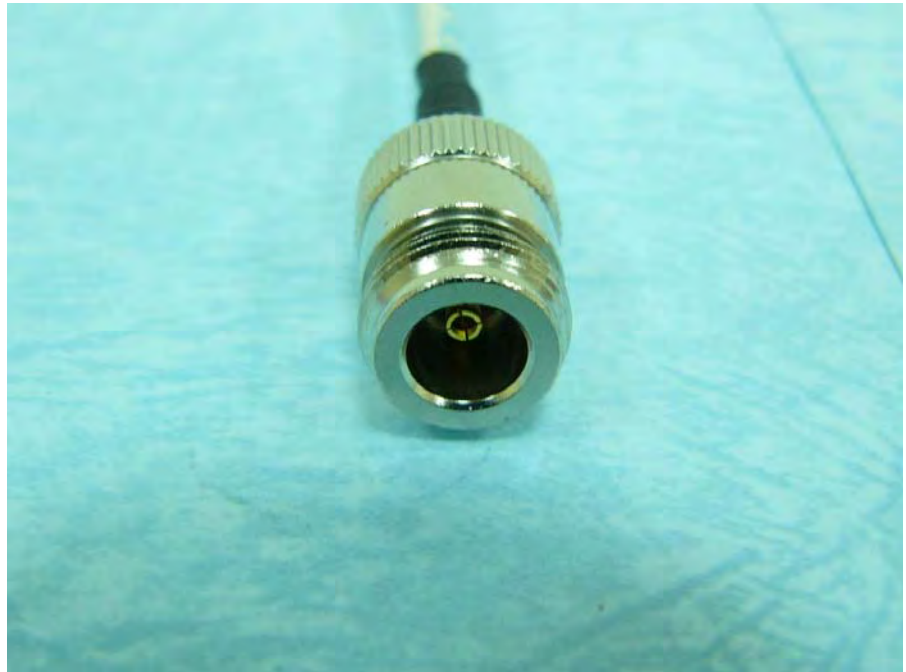


Antenna 3

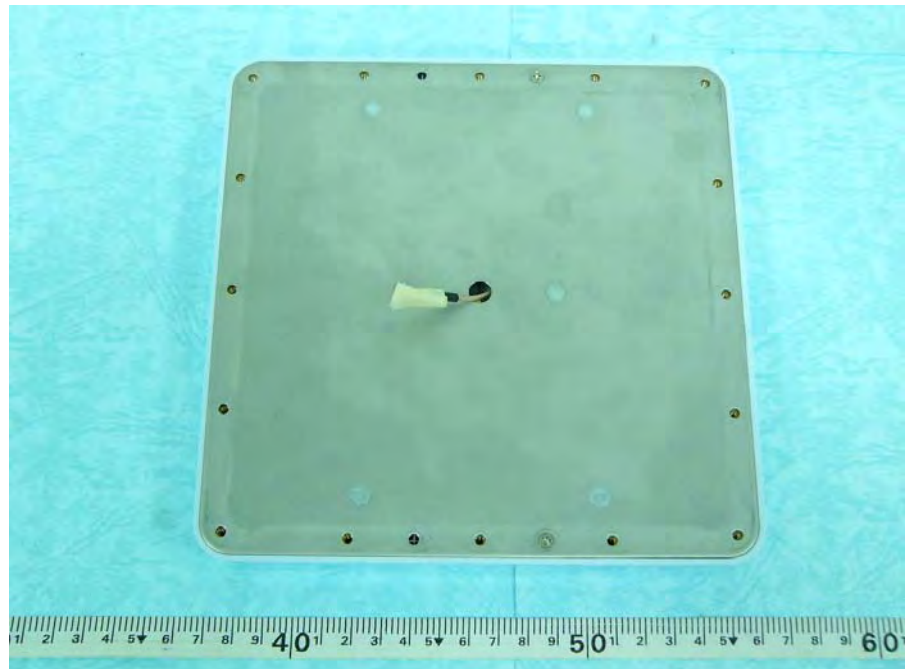


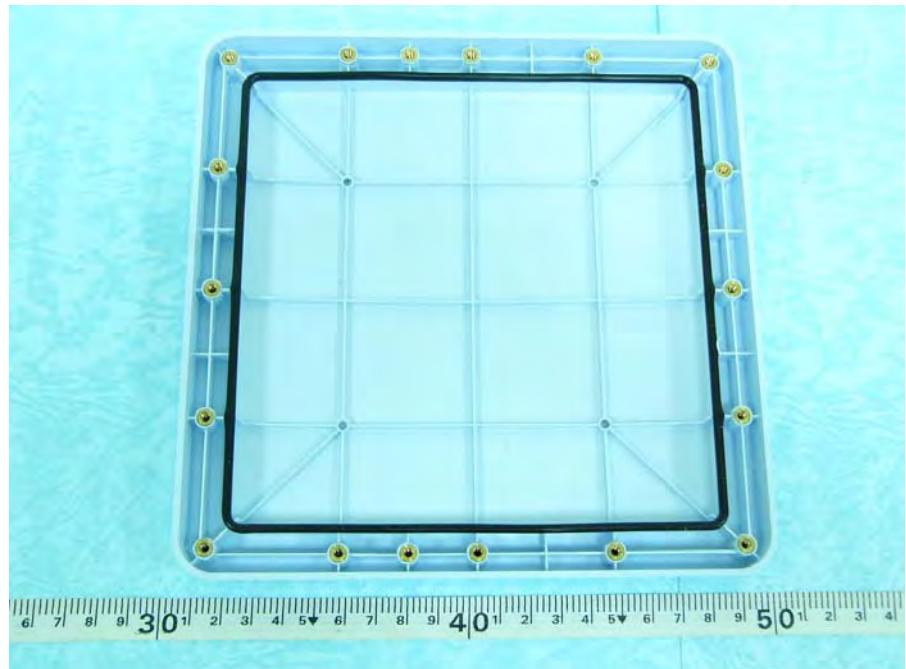
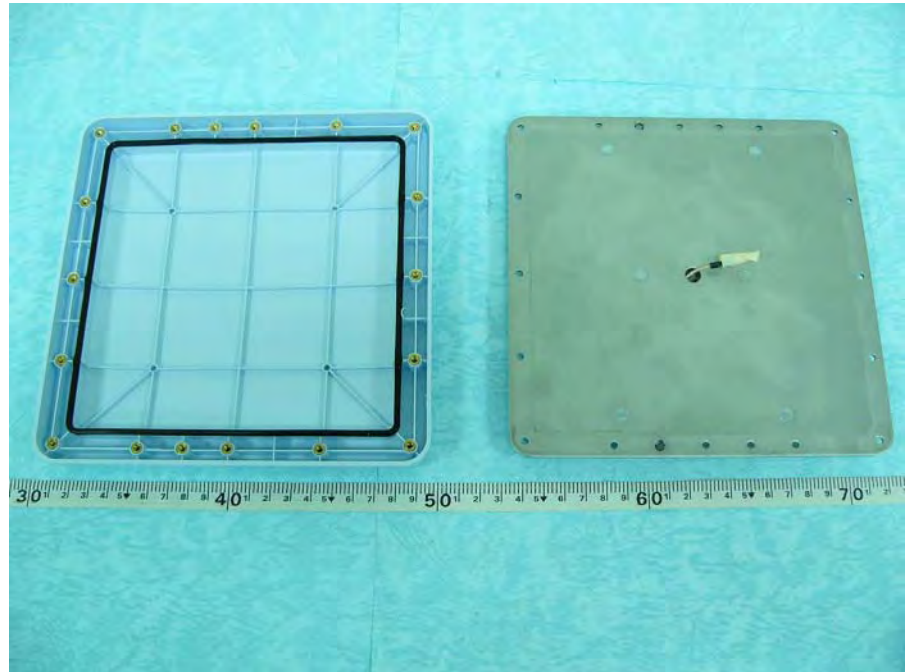


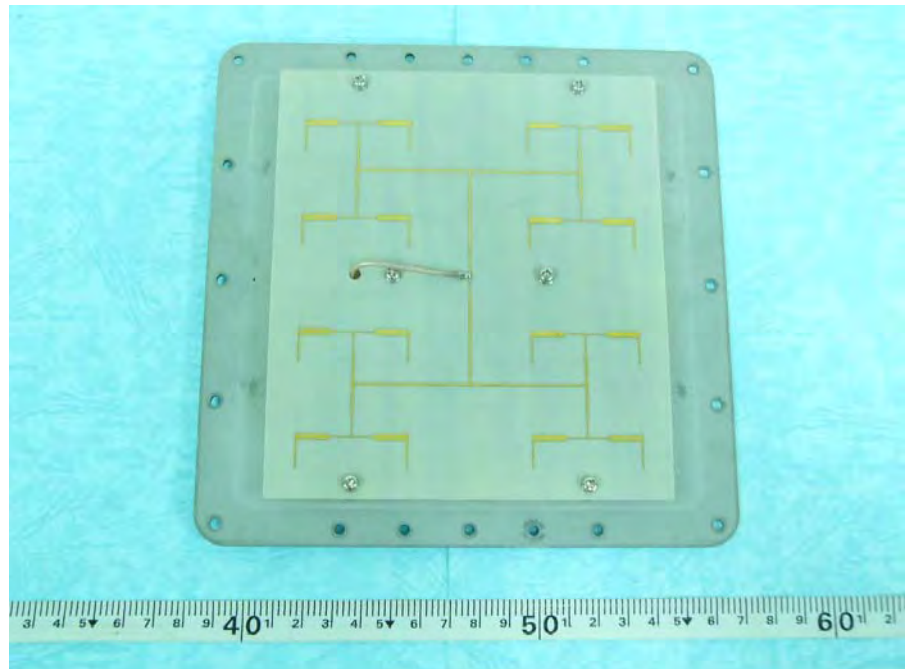
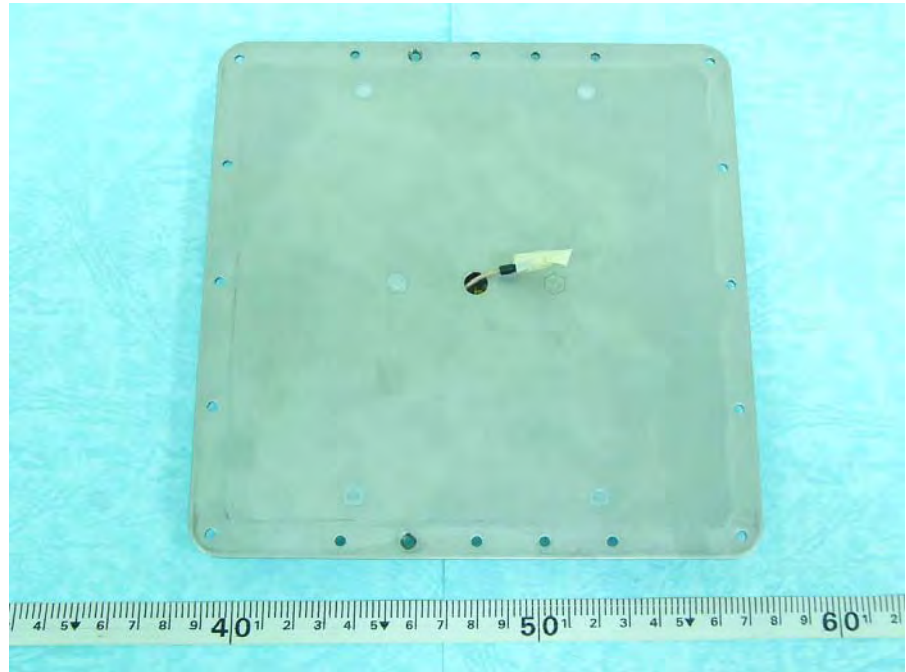




Antenna 4















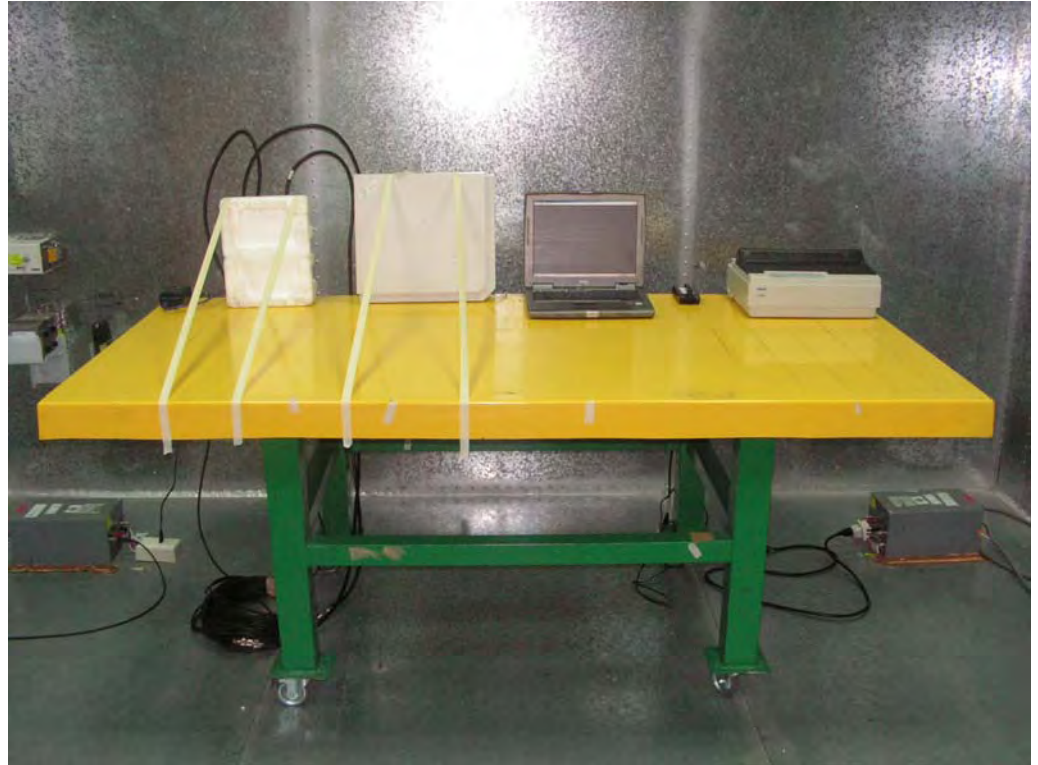


Appendix B. Test Photos

1. Photographs of Conducted Emissions Test Configuration

Ant. 2

FRONT VIEW



REAR VIEW



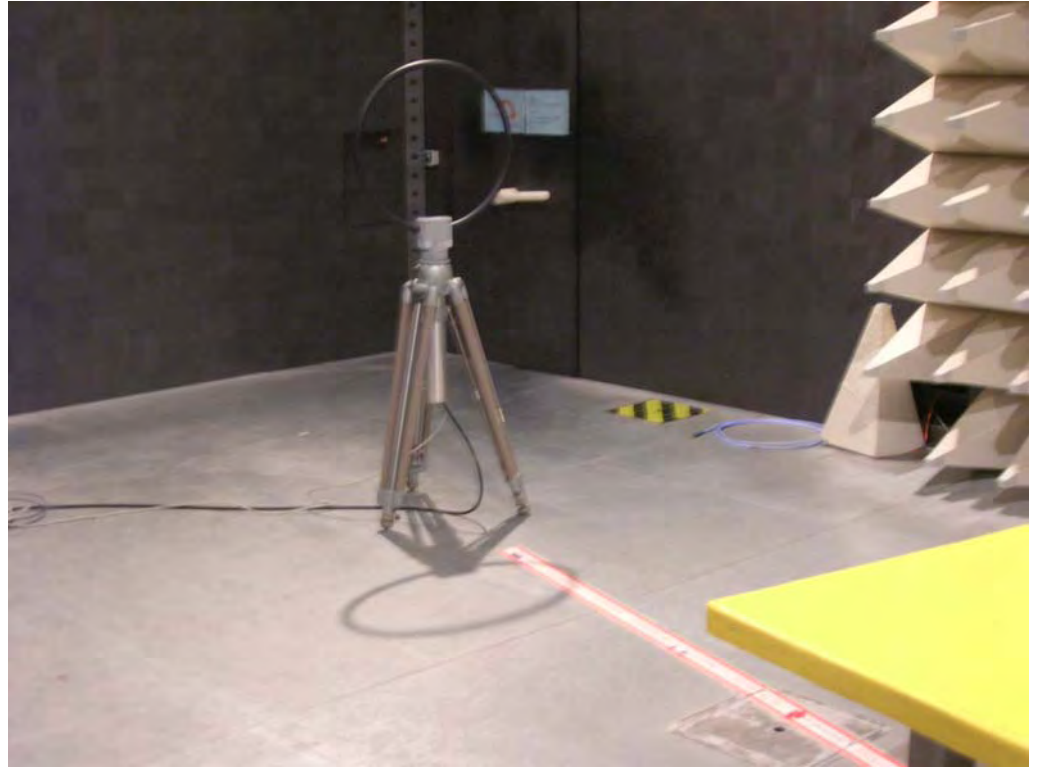
SIDE VIEW



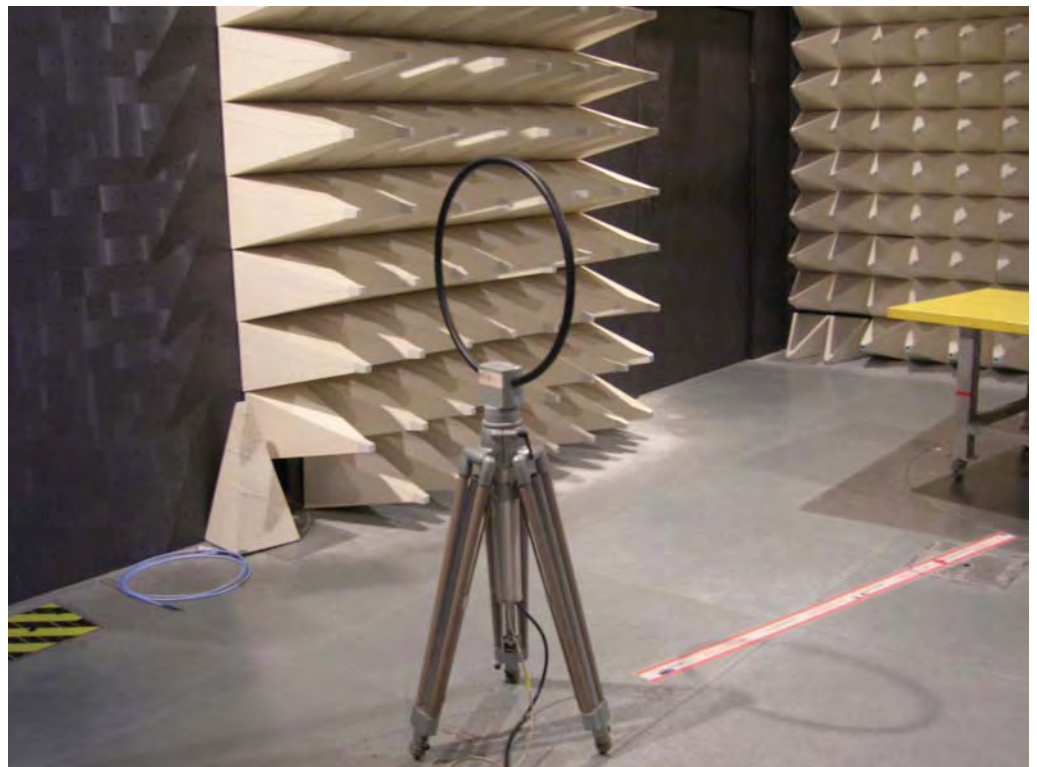
2. Photographs of Radiated Emissions Test Configuration

Below 30MHz

FRONT VIEW



REAR VIEW

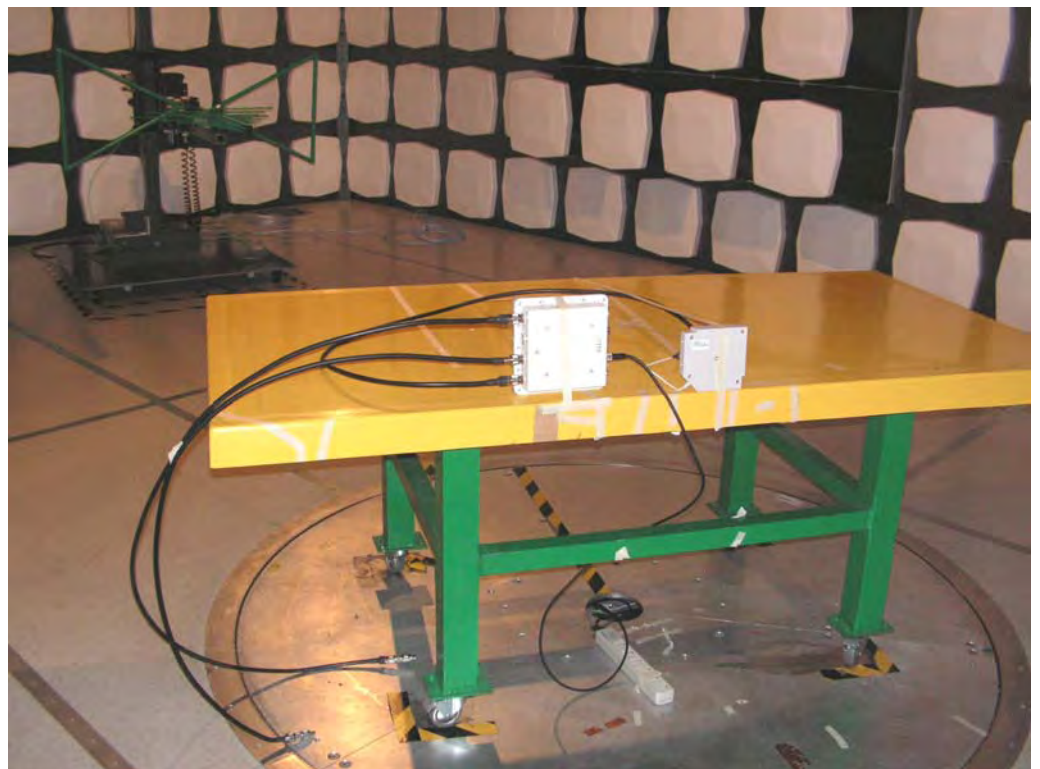


Ant. 1 for Test Configuration: 9KHz~1GHz

FRONT VIEW



REAR VIEW



Ant. 1 for Test Configuration: above 1GHz

FRONT VIEW



REAR VIEW



Ant. 2 for Test Configuration: 9KHz~1GHz

FRONT VIEW



REAR VIEW



Ant. 2 for Test Configuration: above 1GHz

FRONT VIEW



REAR VIEW

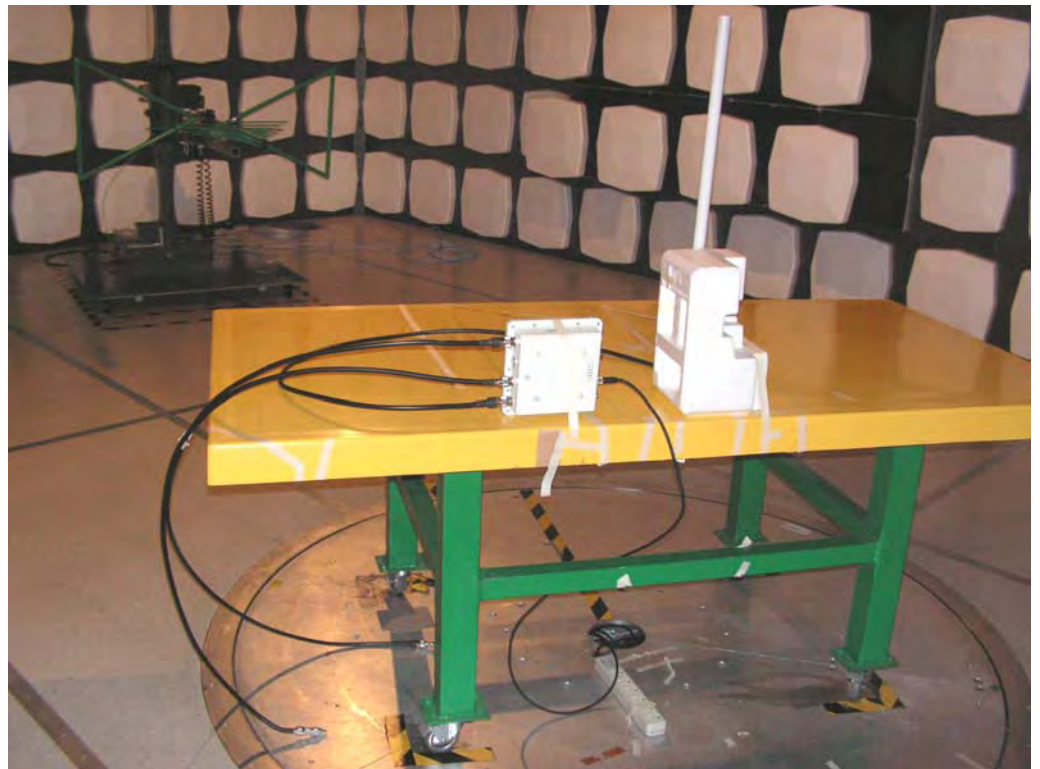


Ant. 3 for Test Configuration: 9KHz~1GHz

FRONT VIEW



REAR VIEW

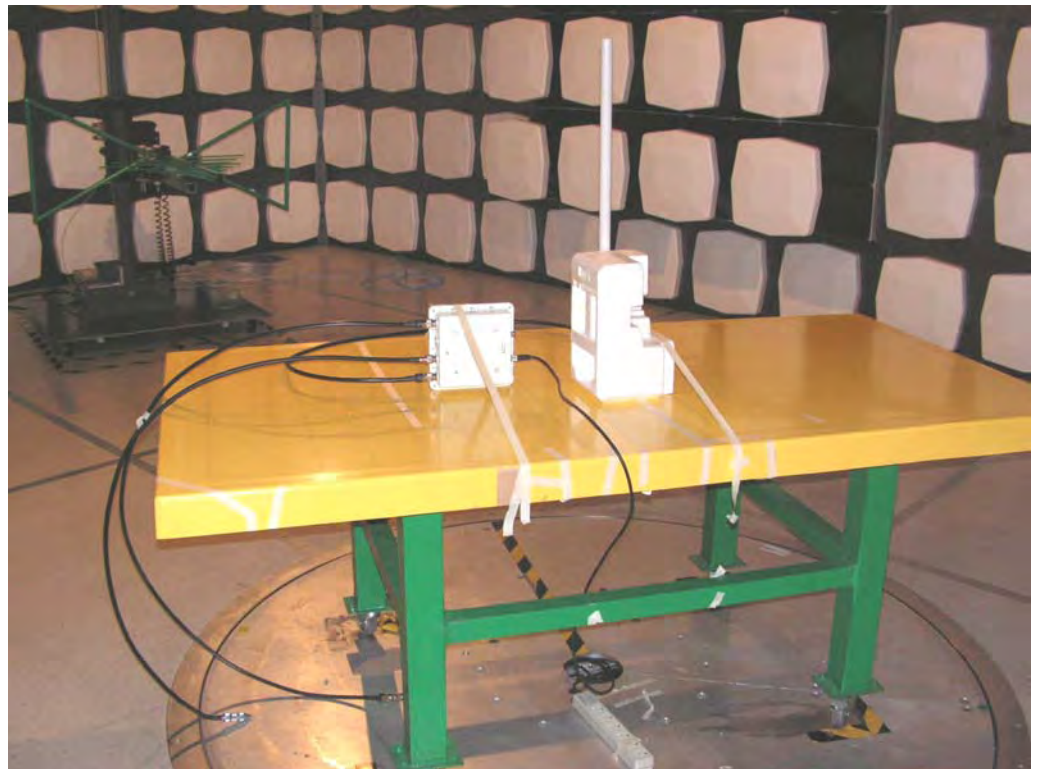


Ant. 3 for Test Configuration: above 1GHz

FRONT VIEW



REAR VIEW



Ant. 4 for Test Configuration: 9KHz~1GHz

FRONT VIEW



REAR VIEW



Ant. 4 for Test Configuration: above 1GHz

FRONT VIEW



REAR VIEW



Appendix C. Maximum Permissible Exposure

1. Maximum Permissible Exposure

1.1. Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

1.2. MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

1.3. Calculated Result and Limit

Ant. 1

Antenna Type : Omni directional Antenna

Max Conducted Power for IEEE 802.11b/g : 21.56dBm

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
6	3.9811	21.5600	143.2188	0.113488	1	Complies

Antenna Type : Omni directional Antenna

Max Conducted Power for IEEE 802.11a : 22.96dBm

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
8	6.3096	22.9600	197.6970	0.248285	1	Complies

Ant. 2

Antenna Type : Panel Antenna

Max Conducted Power for IEEE 802.11b/g : 10.11dBm

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
18	63.0957	10.1100	10.2565	0.128810	1	Complies

Antenna Type : Panel Antenna

Max Conducted Power for IEEE 802.11a : 16.96dBm

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
20	100.0000	16.9600	49.6592	0.988440	1	Complies

Ant. 3

Antenna Type : Panel Antenna

Max Conducted Power for IEEE 802.11b/g : 21.56dBm

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
8	6.3096	21.5600	143.2188	0.179867	1	Complies

Antenna Type : Panel Antenna

Max Conducted Power for IEEE 802.11a : 22.96dBm

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
10	10.0000	22.9600	197.6970	0.393505	1	Complies

Ant. 4

Antenna Type : Printed Antenna

Max Conducted Power for IEEE 802.11a : 18.52dBm

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
17	50.1187	18.5200	71.1214	0.709497	1	Complies