Test Report

Test Report Number	EOTEL083
Applied Standard(s)	FCC Part15 Subpart C, ANSI C63.4-2003
Date of Issue	20th, November 2014
Testing Laboratory Address	Astronaut Noborito Laboratory 294 Noborito, Tama-ku Kawasaki-shi, Kanagawa, 214-0014 Japan
Test Date(s)	4th November, 2014 - 10th Nobember, 2014
Product Name	Activity Tracker
Model Number	S1100AM00
Serial Number	-
Applicant (Client) Address	1-1, Shibaura 1-Chome, Minato-ku, Tokyo, 105-8001, Japan Toshiba Corporation Healthcare Company
Manufacturer Address	1975, 23-chome, Minami 5-jodori, Asahikawa, 078-8335, Japan Toshiba Hokuto Electronics Corporation.
FCC ID / IC	FCC ID：2ADLXS1100AM00

Test Result

The test result for the electromagnetic compatibility tests
as described in the section 1 to 2 and in this page was:

Pass

Tested by: Katsutoshi Hatanaka
Katsutoshi Hatanaka
Test Enginner

Approved by:
Koji Imai
Testing Group Leader

Checked 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 results of this report refer only to the EUT tested here.

Page

1. Summary

1.1 Terms and definitions

AV
Average

DoC
Declaration of Conformity

EUT
Equipment Under Test

PK
Peak

QP
Quasi-peak

1.2 Standard(s) and Result

Applied Standard(s)	Normative Reference(s)	Classification	Result	Note
FCC Part15 Subpart C	6dB Bandwidth	15.247(a)(2)	Pass	
	Maximum Peak Output Power	15.247(b)(3)	Pass	
	Band Edge of Compliance of RF Conducted Emissions	15.247(d)	Pass	
	Peak Power Spectral Density	15.247(e)	Pass	
	Line Conducted Measurement	15.207	Pass	
	Radiated emissions	15.209 15.205	Pass	
	Maximum Permissible Exposure	1.1310 Safety code6, 2.2.1	N/A	

1.3 Test Methodology

All mesurements contained in this report were conducted with ANSI C63.4-2003,American National Standard for Methods of Mesurement of Radio-Niose Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9kHz to 40GHz.
The KDB558074 for Revision to Compliance Measurement Guidance shall be performed also.

2. Equipment Under Test (EUT)

2.1 General Descriptions

Enret a brief description of the product being marketed.
Activity tracker is a wrist-worm device capable of measuring daily activities.

2.2 Detailed Descriptions

Product Name	Activity Tracker
Model Number	S1100AM00
Serial Number	-
Power Supply	3.7Vdc(Lithium-ion battery)
Dimension	16 mm × 41 mm × 12 mm
Operating Frequency	2402.000MHz – 2480.000MHz
Normal Placement	outdoor
Condition of the EUT	Prototype

2.3 WORST-CASE CONFIGURATION AND MODE

(a) EUT axes

The fundamental was measured in three different orientations X, Y and Z to find worst-case orientation, and it was found that Y orientation is worst-case; therefore final testing for radiated emissions was performed with EUT in X orientation with Cable.

2.4 Operation Mode(s) of the EUT for EMC during the Test(s)

Operation Mode Name	Description
BDR mode	Normal operationTx mode
LE mode	

2.5 Peripheral Devices

Mark	Description	Model Number	Serial Number	FCC ID Code or DoC status	Manufacturer
1	Personal Computer	S-10-3	QB02052841	DoC	lenovo
2	Personal Computer	Vostro 3360	32777795521	DoC	Dell

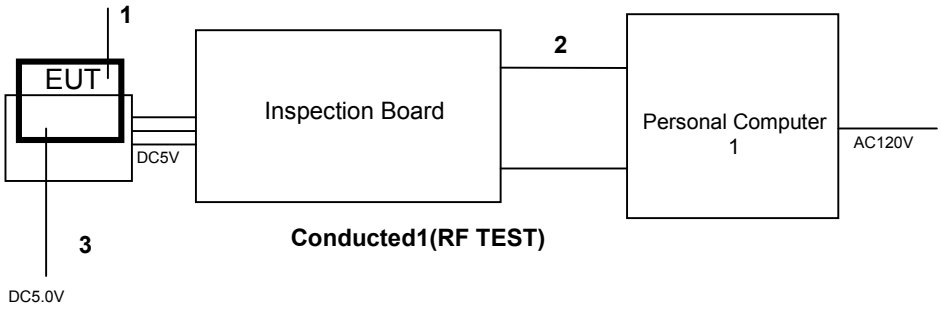
2.6 Interconnecting Cables

Mark	Description	Length (m)	Shielded		Tested Port(s) (Note:1)	
			Cable	Connector	Applicable	Interface
1	Antenna cable	0.05	Yes	Yes	No	RF cable
2	USBcable	0.80	Yes	Yes	No	I/O signal
3	Power cable	0.47	No	Yes	No	DC power
4	USBcable	0.80	Yes	Yes	No	DC power I/O signal

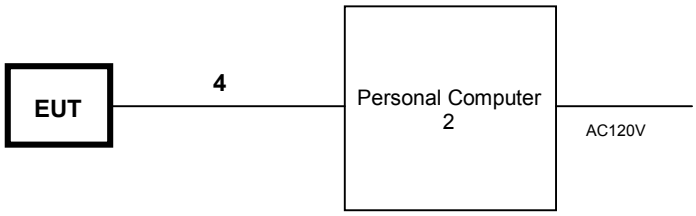
Remarks:

2.7 System Configuration

Unless otherwise specified in the following sections, the test configuration described here is applied for the tests. The configuration was choice by the applicant.



Conducted1(RF TEST)



Conducted2(15.207)

Radiated

2.8 Labeling Requirements

Per 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(b)(2).
Please see attachment for FCC ID label and label location

2.9 Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:
"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient t to comply with the provisions of this section."

The antennas of the Toshiba Corporation Healthcare Company are permanently attached.
There are no provisions for connection to an external antenna

Conclusion:

Toshiba Corporation Healthcare Company unit complies with the requirement of §15.203.

3. Test Data

3.1 Test specification

Standard	FCC Part15 Subpart C 15.205 115.209 15.247, ANSI C63.4-2003
Frequency Range	2402.000 MHz to 2480.000MHz
Test Date	4th November, 2014 - 10th November, 2014
Test Location	Astronaut Noborito Laboratory 294 Noborito, Tama-ku Kawasaki-shi, Kanagawa, 214-0014 Japan
Test Engineer	Katsutoshi Hatanaka
Temperature	17.5 °C – 21.2℃
Humidity	47%RH - 56% RH
Pressure	1005 hPa
Power Supply	3.7V dc(Lithium-ion battery)
Operation Mode Name	LE Mode
Modulation Type	GFSK
Tested channel	Lower ch 2402.000MHz Middle ch 2442.000MHz Higher ch 2480.000MHz

Remark: *1 : Equivalent isotropic radiated power and Frequency Range only.

3.2 6dB Bandwidth

3.2.1 Test Result

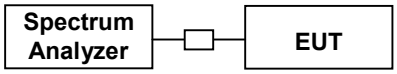
Mode	Cannel	Center Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)
LE	Lower	2402.000	553.106	>500.0
	Middle	2442.000	553.106	>500.0
	Higher	2480.000	553.106	>500.0

Table1 6dB Bandwidth

Result : Pass

3.2.2 Test Detail

1.The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
2.Set to the maximum power setting and enable the EUT transmit continuously.
3.Enable the EUT hopping function.
4.Use the following spectrum analyzer setting for 6dB Bandwidth measurement.
Span:approximately 2 to 3 times the 6dB Bandwidth
Frequency:Centered on a hopping Channel
RBW:≧1% of the 6dB bandwidth VBW:RBW≦VBW
Sweep:auto Detector function:peak Trace:max hold
5.Measure and record the results in the test report.



3.2.3 Test data

3.2.3.1 LE Mode

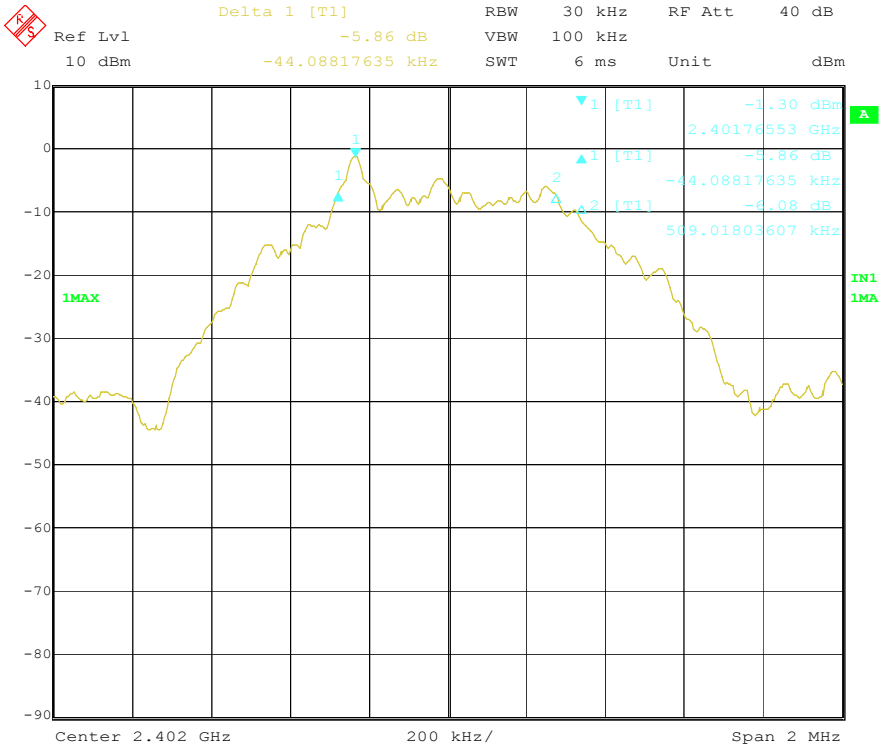


Figure 1 6dB Bandwidth(Lower ch_2402.000MHz)

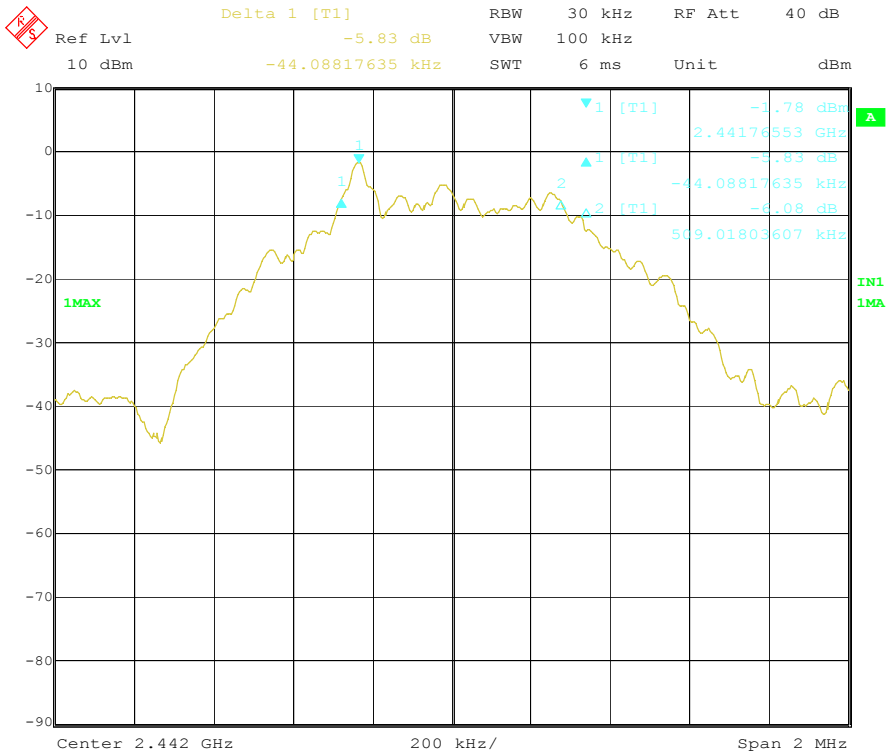


Figure 2 6dB Bandwidth(Middle ch_2442.000MHz)

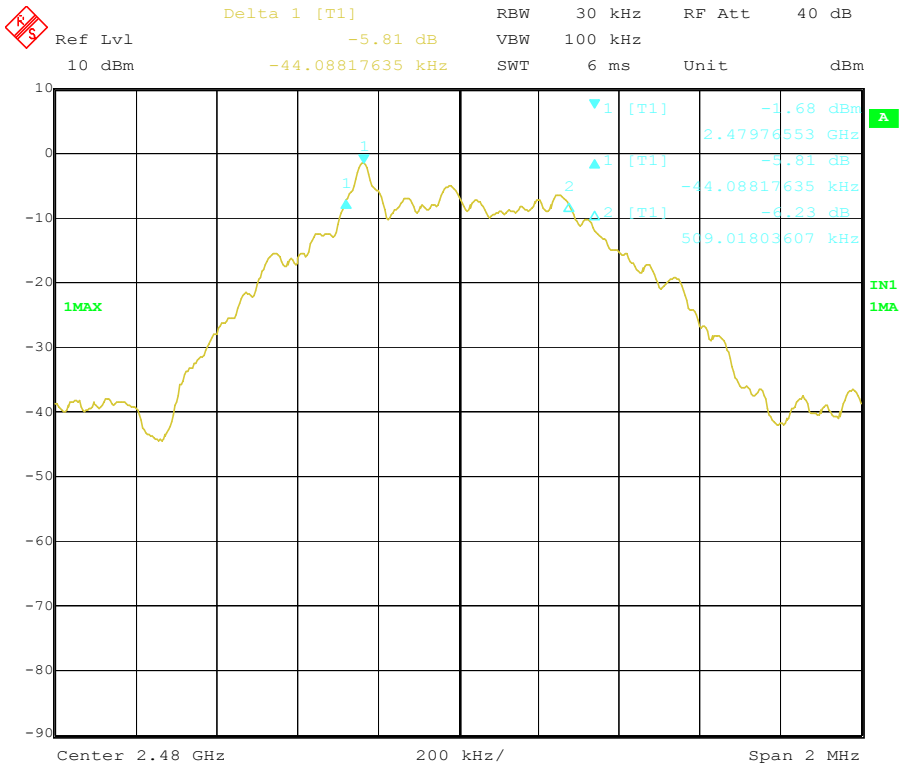


Figure 3 6dB Bandwidth(Higher ch_2480.000MHz)

3.3 Maximum Peak Output Power

3.3.1 Test Result

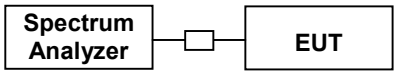
Mode	Channel	Frequency (MHz)	S/A Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)
LE	Lower	2402.000	−0.17	1.15	0.98	30.0	29.02
	Middle	2442.000	−0.69	1.15	0.46	30.0	29.54
	Higher	2480.000	−0.53	1.15	0.62	30.0	29.38

Table2　Maximum Peak Output Power

Result : Pass

3.3.2　Test Detail

1.The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
2.Set to the maximum power setting and enable the EUT transmit continuously.
3.Enable the EUT hopping function.
4.Measure the conducted output power with cable loss and record the result in the test report.
5.Measure and record the results in the test report.



3.3.3 Test data

3.3.3.1 LE Mode

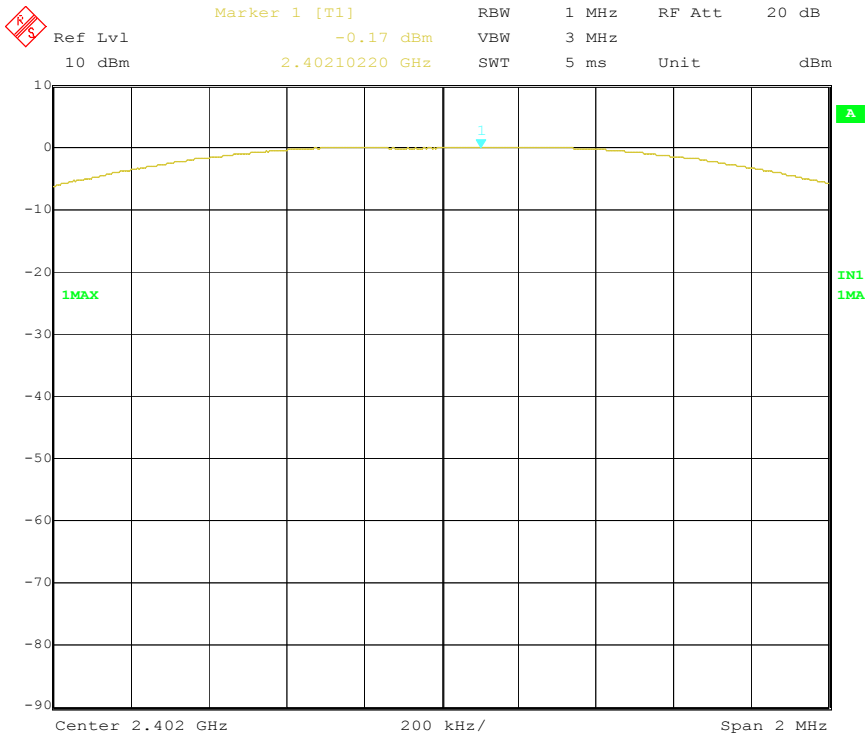


Figure 4 Maximum Peak Output Power(Lower ch_2402.000MHz)

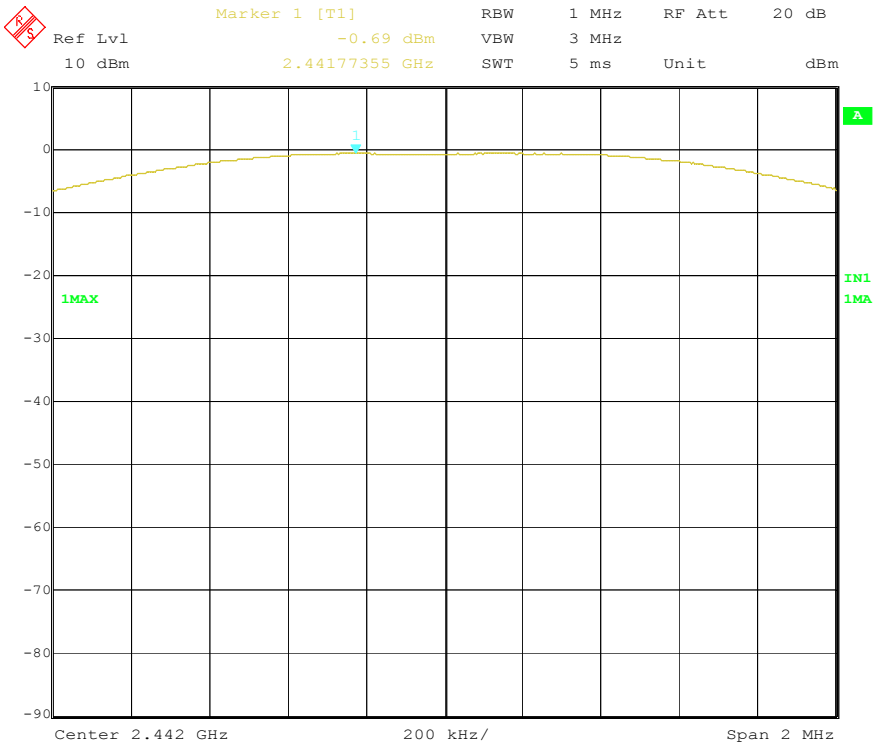


Figure 5 Maximum Peak Output Power(Middle ch_2442.000MHz)

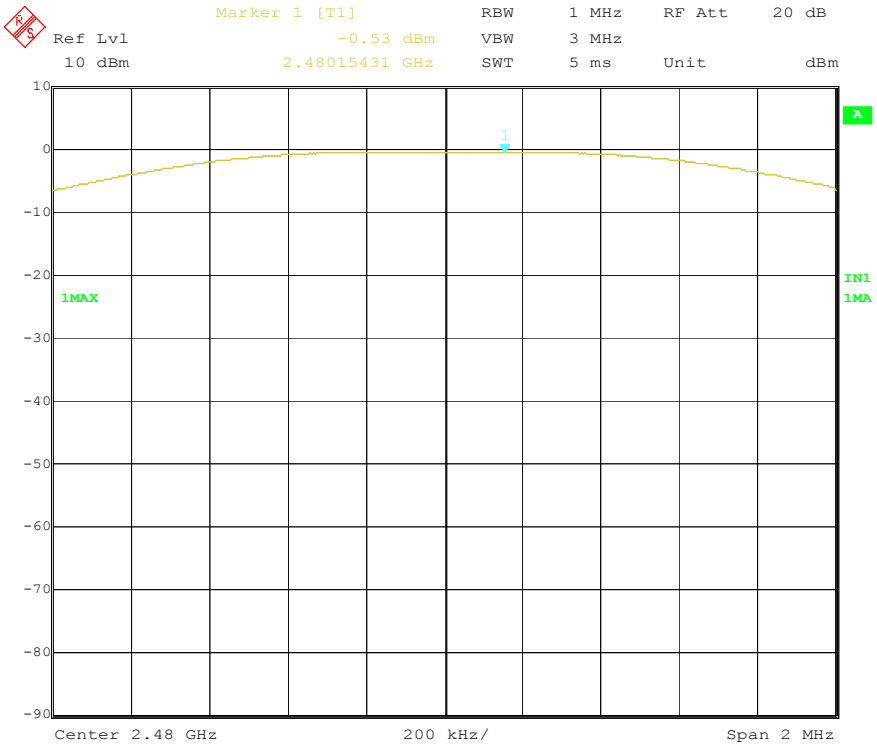


Figure 6 Maximum Peak Output Power(Higher ch_2480.000MHz)

3.4 Band Edge of Compliance of RF Conducted Emissions

3.4.1 Test Result

Mode	Edge	Deference (dB)	Limit (dB)	Margin (dB)
LE	Lower	34.12	>20	14.12
	Higher	32.95	>20	12.95

Table3 Band Edge of Compliance of RF Conducted Emissions

Result：Pass

3.4.2 Test Detail

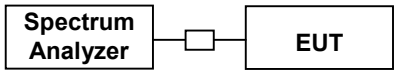
1.Set to the maximum power setting and enable the EUT transmit continuously.

2.Set RBW=300kHz(≧1% Span=30MHz) VBW = 300kHz(≧RBW)

Bandefge emissions must be at least 20dB down from the highest emission level within the authorize Band as measure with a 300kHz RBW.The attenuation shall be 30dB instead of 20dB when RMS conducted output power procedure is used.

4.Enable hopping function of the EUT and then repeat step 2. And 3.

5.Measure and record the results in the test report.



3.4.3 Test data

3.4.3.1 Conducted Band Edges

3.4.3.1.1 LE Mode

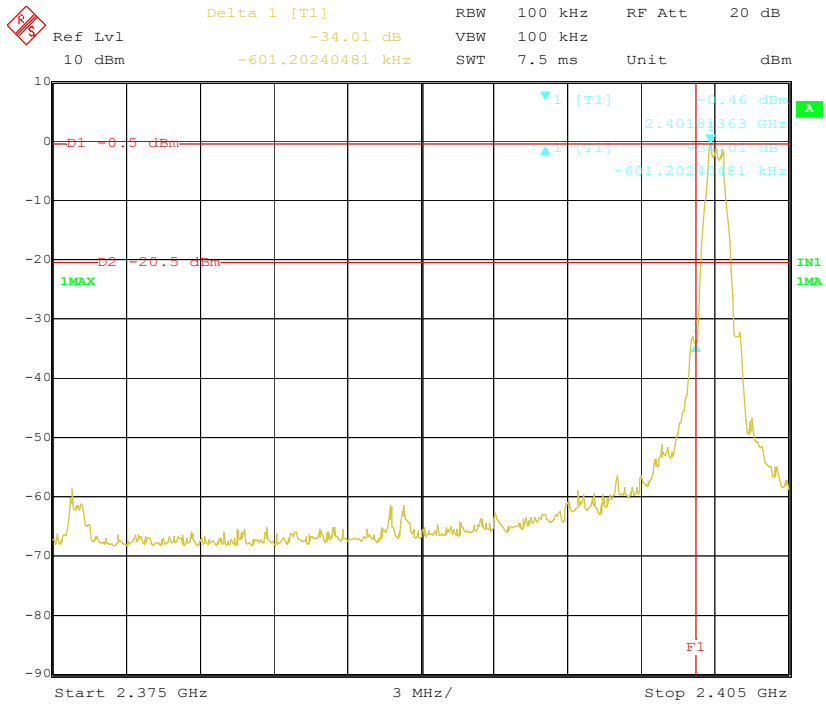


Figure 7 Low Band Edge Plot on Channel 00_2402.000MHz

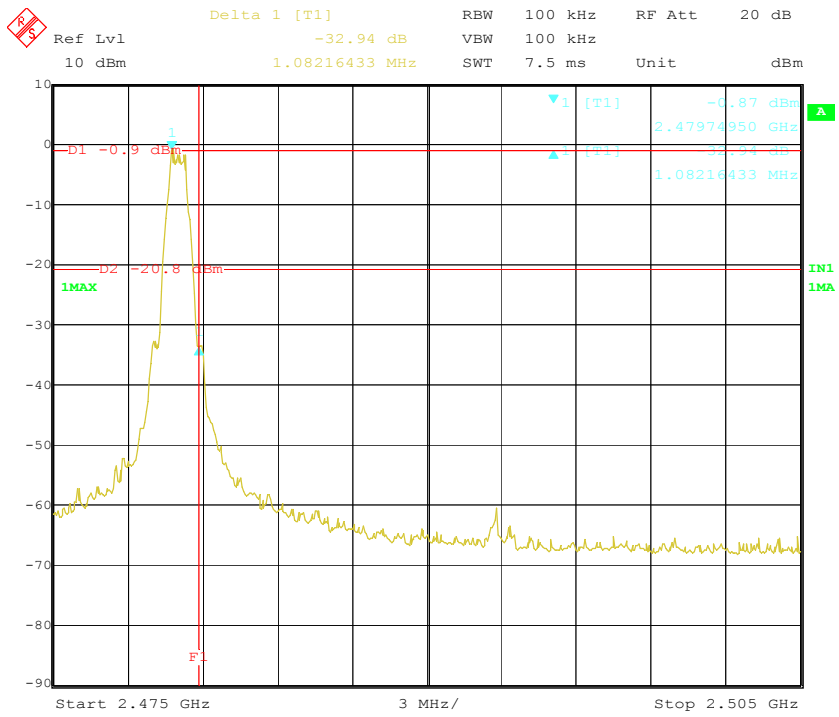


Figure 8 High Band Edge Plot on Channel 39_2480.000MHz

3.5 Peak Power Spectral Density

3.5.1 Test Result

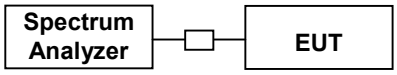
Mode	Channel	Frequency (MHz)	S/A Reading (dBm)	Factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)
LE	Lower	2402.000	−15.58	1.15	−14.43	8.0	22.43
	Middle	2442.000	−16.18	1.15	−15.03	8.0	23.03
	Higher	2480.000	−15.91	1.15	−14.76	8.0	22.76

Table4 Peak Power Spectral Density

Result : Pass

3.5.2 Test Detail

1.The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
2.Set RBW of spectrum analyzer to 3kHz and VBW 30kHz.Set Detector to Peak,Trace to Max Hold.
3.Mark the frequency with maximum peak power as the center of the display of spectrum.
4.Set the span 1.5MHz and the sweep time to 500s and record the maximum peak value.



3.5.3 Test data

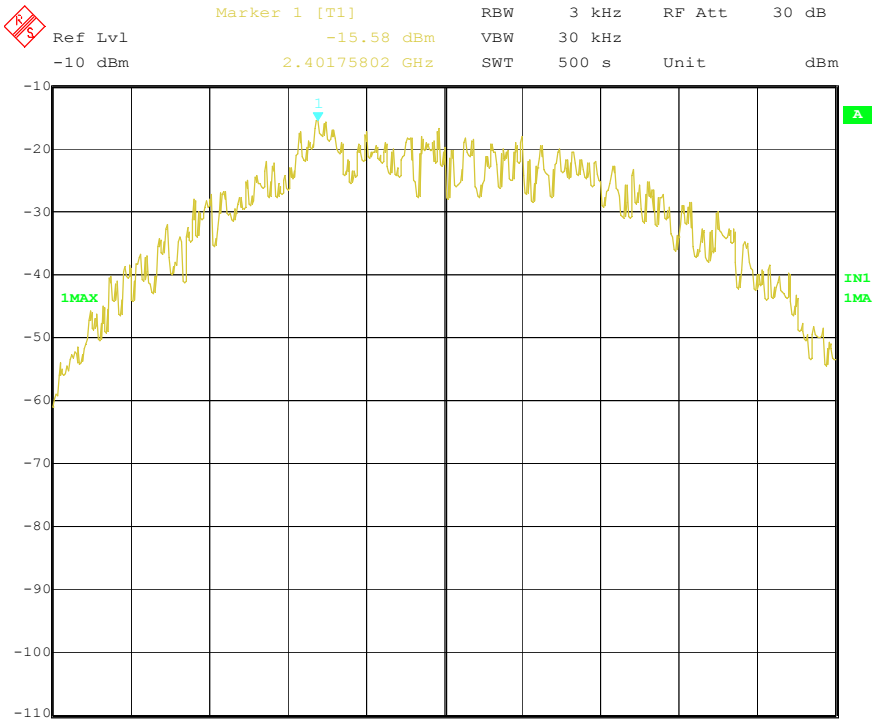


Figure 9 Peak Power Spectral Density(Lower ch_2402.000MHz)

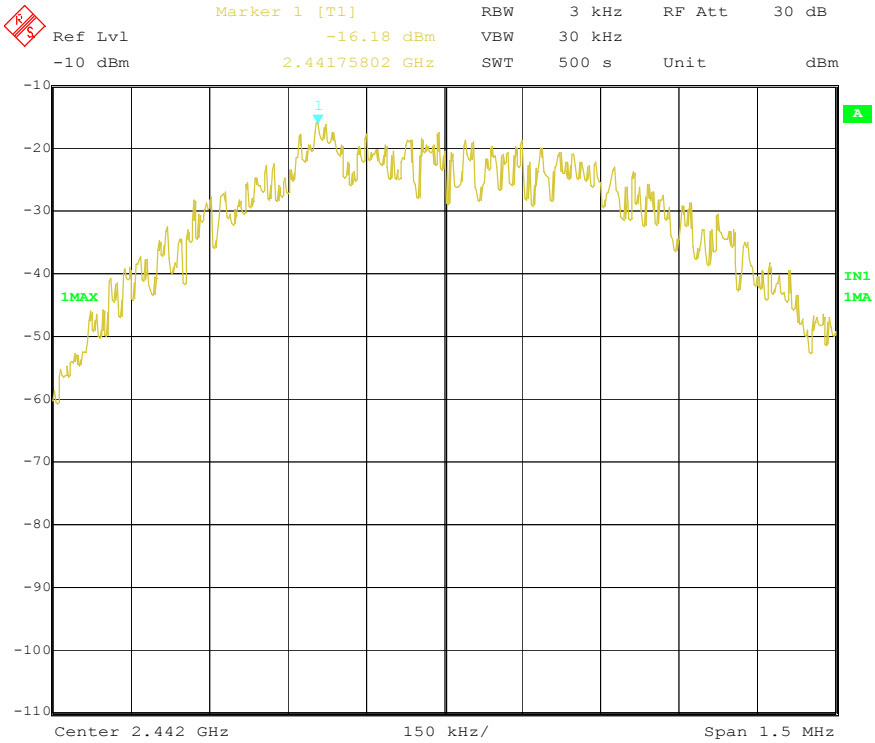


Figure 10 Peak Power Spectral Density(Middle ch_2442.000MHz)

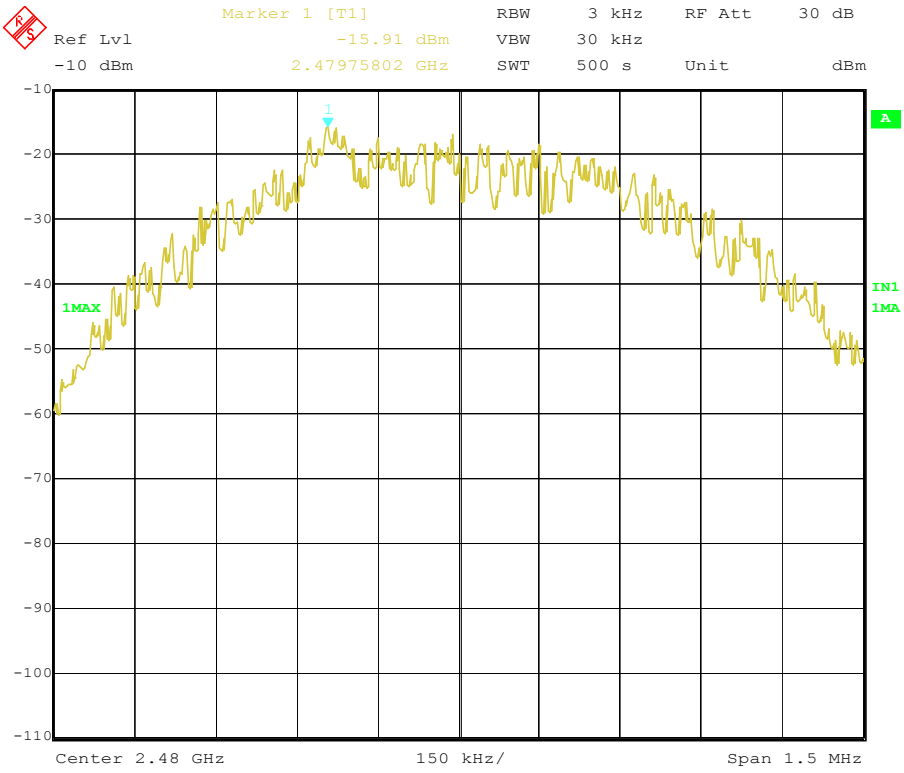


Figure 11 Peak Power Spectral Density(Higher ch_2480.000MHz)

3.6 Line Conducted Measurement

3.6.1 Test Result

Frequency [MHz]	Line [A/B]	Factor [dB]	Level[dBμV]		Result[dBμV]		Limit[dBμV]		Margin[dB]	
			QP	AV	QP	AV	QP	AV	QP	AV
0.15430	A	9.9	43.3	30.1	53.2	40.0	65.8	55.8	12.6	15.8
0.16314	A	10.1	36.0	22.2	46.1	32.3	65.3	55.3	19.2	23.0
0.20663	A	9.9	29.1	14.9	39.0	24.8	63.3	53.3	24.3	28.5
0.22085	A	9.9	26.7	17.4	36.6	27.3	62.8	52.8	26.2	25.5
0.24537	A	9.9	24.9	16.1	34.8	26.0	61.9	51.9	27.1	25.9
0.31325	A	10.0	18.1	9.9	28.1	19.9	59.9	49.9	31.8	30.0
0.44063	A	10.2	20.6	14.5	30.8	24.7	57.0	47.0	26.2	22.3
0.18648	B	10.1	29.1	16.0	39.2	26.1	64.2	54.2	25.0	28.1
0.43528	B	10.2	20.0	13.5	30.2	23.7	57.2	47.2	27.0	23.5

Table5 Line Conducted Measurement

Result：Pass

3.6.2 Test Detail

Onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).

3.6.3 Test data

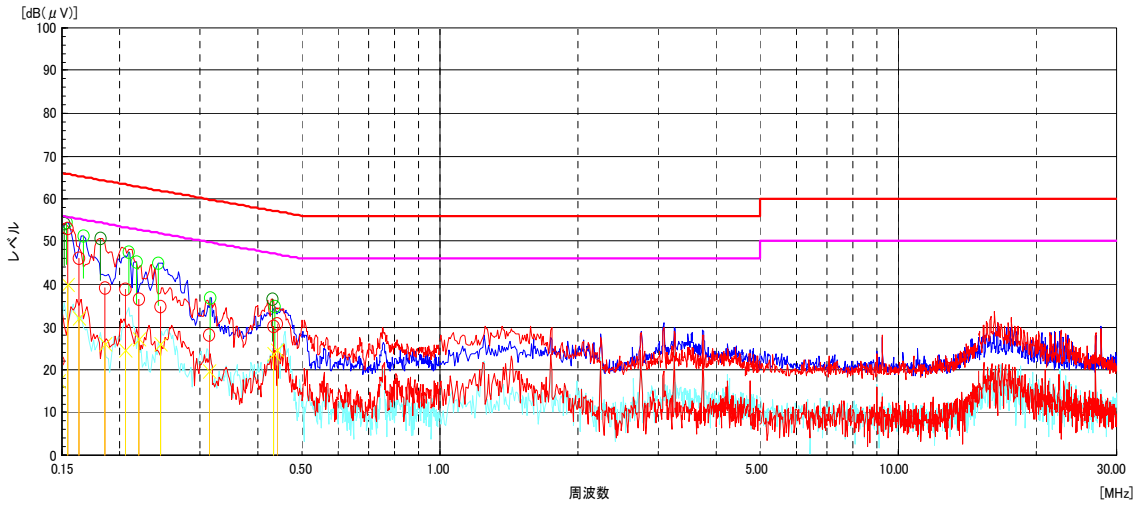


Figure 12 Line Conducted Measurement

3.7 Radiated emission

3.7.1 Test Result

3.7.1.1 9kHz to 1000MHz

Mode	Measurement Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Noise level (dBμV/m)	Ant height (m)	Ant Pol (H/V)	Turn table angle (digree)	Limit (dBμV/m)	Margin (dB)
Hopping	0.253	37.8	-25.7	12.1	113	H	112	19.5	7.4
	40.722	-3.9	-5.2	-9.1	101	V	134	40	49.1
	143.468	-2.6	-2.9	-5.5	103	V	273	43.5	49.0
	220.761	-3.4	19.6	16.2	391	V	113	46	29.8
	552.516	-1.9	21.8	19.9	358	V	186	46	26.1
	902.249	-1.4	26.6	25.2	103	V	128	46	20.8
	989.174	-1.3	27.7	26.4	115	V	300	54	27.6

Table6 Radiated Emission (9kHz-1000MHz)

Result：Pass

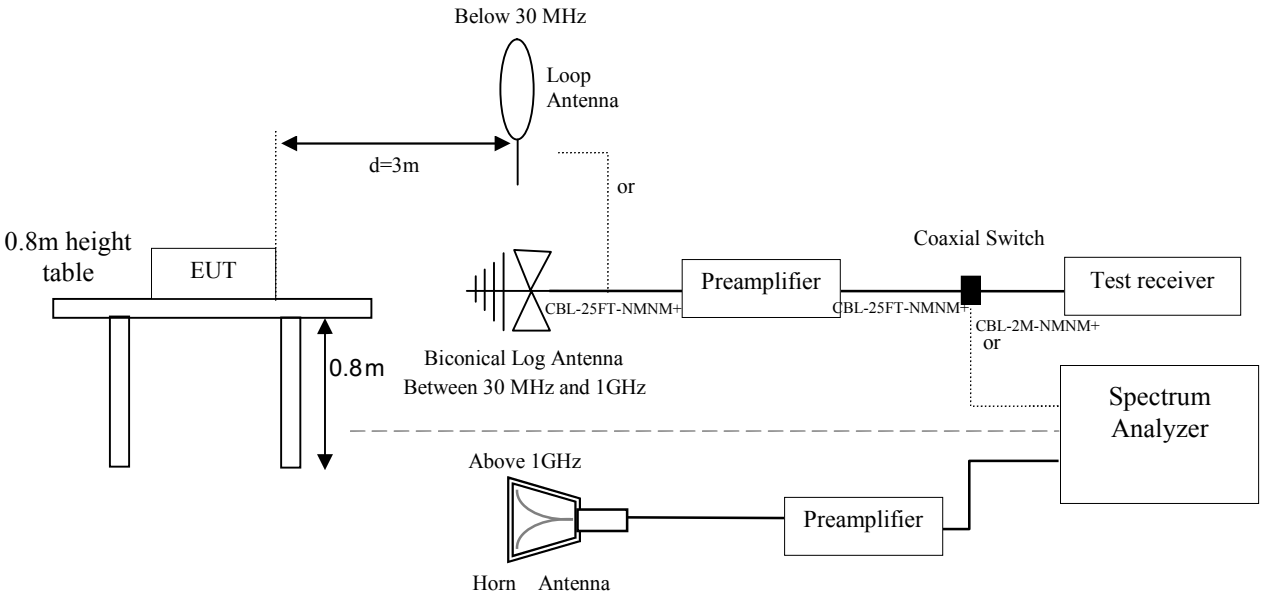
3.7.1.2 1GHz to 25GHz

Mode	Measurement Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Noise level (dBμV/m)	Ant height (m)	Ant Pol (H/V)	Turn table angle (digree)	Limit (dBμV/m)	Margin (dB)
Hopping	2009.66	42	-27.5	14.5	217	V	95	54	39.5
	3583.969	40.9	-19.0	21.9	104	V	125	54	32.1
	4717.116	40.3	-14.5	25.8	105	V	28	54	28.2
	6778.638	41.4	-7.5	33.9	118	V	190	54	20.1
	7842.204	41.7	-5.1	36.6	207	V	155	54	17.4
	17582.36	33.5	19.4	52.9	110	V	140	54	1.1

Table 7 Radiated Emission (1GHz-25GHz)

Result：Pass

3.7.2 Test Detail



1. The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4:2003. The EUT is set to transmit in a continuous mode.
2. For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.
3. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.
4. The spectrum from 30 MHz to 25 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.
5. The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

3.7.3 Test data

3.7.3.1 9kHz to 1000MHz

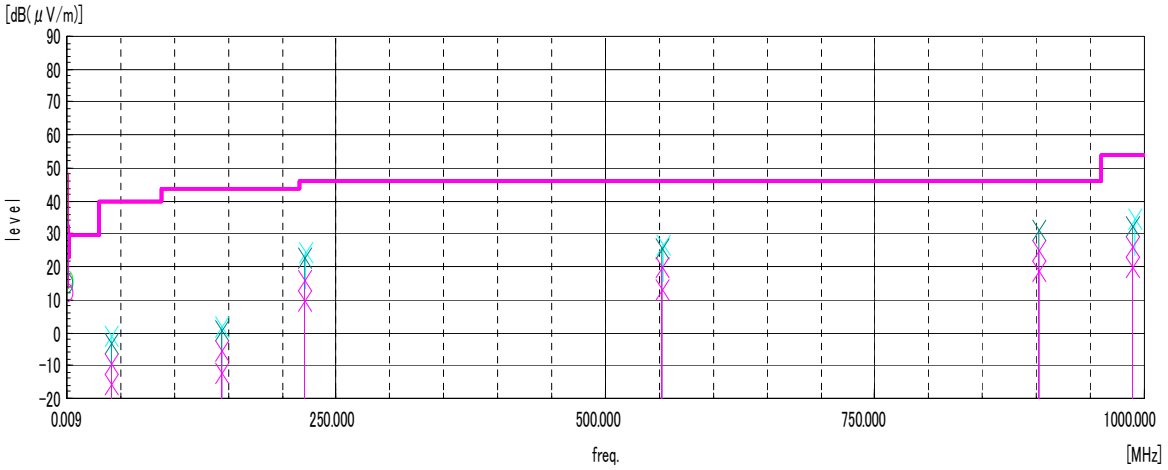


Figure 13 Radiated Emission (9kHz-1000MHz)

3.7.3.2 1GHz to 25GHz

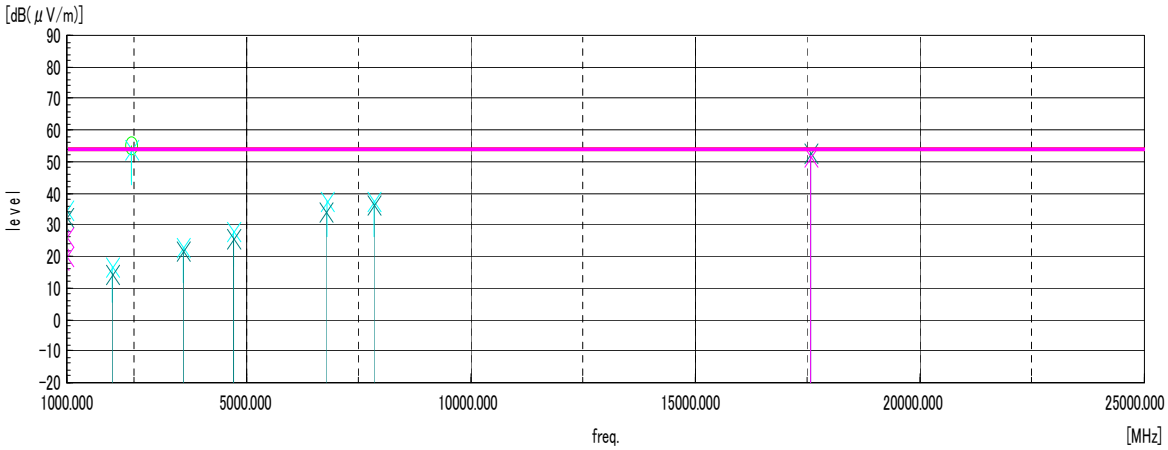


Figure 14 Radiated Emission (1-25GHz)

3.7.4 Remarks

1. All measurements were performed using a loop antenna. The antenna was positioned in three orthogonal positions
   (X front, Y side, Z top) and the position with the highest emission level was recorded.
2. The EUT was positioned in three orthogonal planes to determine the orientation resulting in the worst case emissions.
3. Measurements were performed at 3m and the data was extrapolated to the specified measurement distance of 10m. to 300m.
4. All measurements were recorded using a spectrum analyzer employing a quasi-peak detector.
5. Field Strength Level $_{[dB\mu V/m]}$= Analyzer Level $_{[dB\mu V]}$ + AFCL $_{[dB/m]}$.
6. AFCL $_{[dB/m]}$ = Antenna Factor $_{[dBm]}$ + Cable Loss $_{[dB]}$
   Margin $_{[dB]}$= Field Strength Level $_{[dB\mu V/m]}$ - Limit $_{[dB\mu V/m]}$

3.8 RF Exposure Requirements

3.8.1 Calculation

Power density is given by:

$S = EIRP / (4 * Pi * D^2)$

where

S = Power density in W/m^2

EIRP = Equivalent Isotropic Radiated Power in W

D = Separation distance in m

Power density in units of W/m^2 is converted to units of mWc/m^2 by dividing by 10.

Distance is given by:

$D = SQRT (EIRP / (4 * Pi * S))$

where

D = Separation distance in m

EIRP = Equivalent Isotropic Radiated Power in W

S = Power density in W/m^2

In the table(s) below, Power and Gain are entered in units of dBm and dBi respectively and conversions to linear forms are used for the calculations.

LIMITS

From FCC §1.1310 Table 1 (B), the maximum value of S = 1.0 mW/cm^2

3.8.2 RESULTS

Band	Mode	Output Power (dBm)	Antenna Gain (dBi)	Separation Distance (m)	Limit (mW/cm^2)
2400MHz	Bluetooth	0.98	0.00	0.005	1.00

Table 8 RF Exposure Requirements

4.Test setup Photographs

4.1 EUT

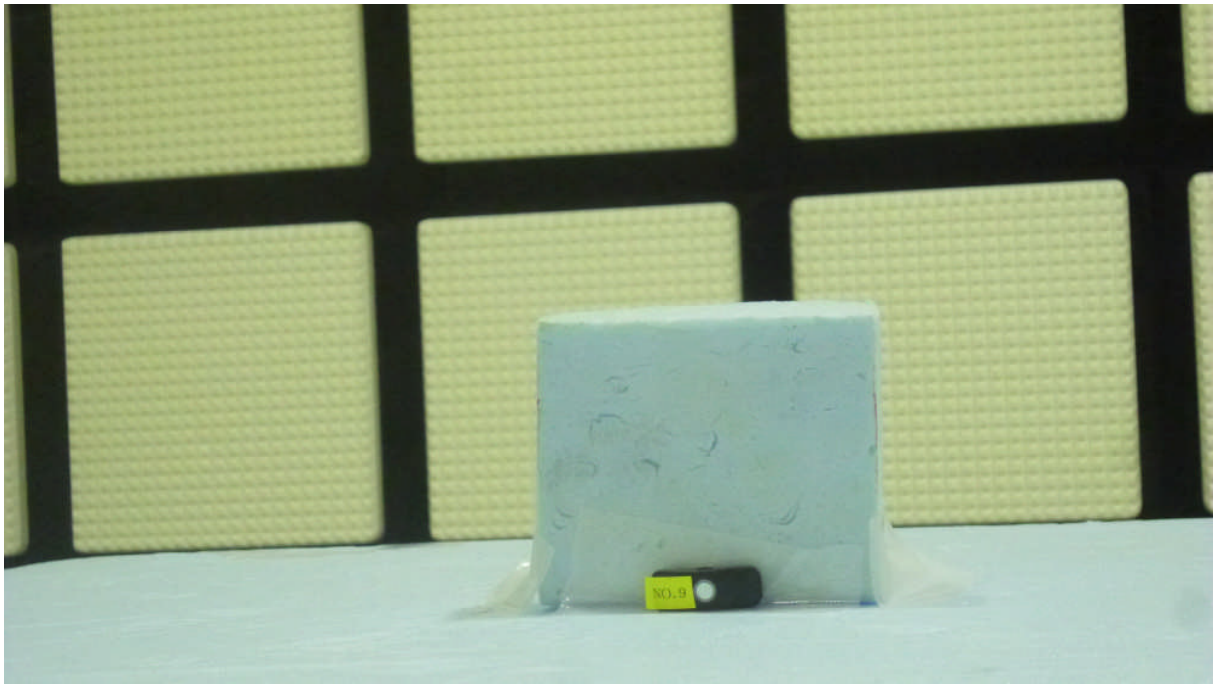


Photo1　EUT setup for radiated

4.2 Radiated

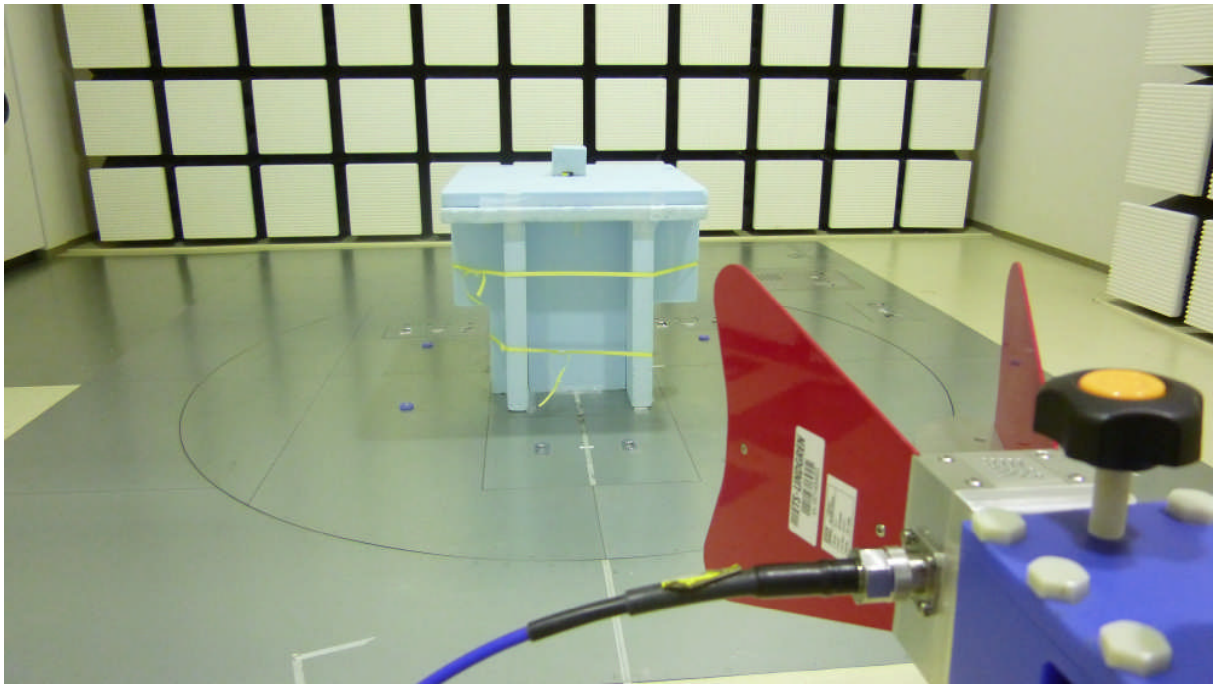


Photo2 Test setup for radiated (above 1GHz)

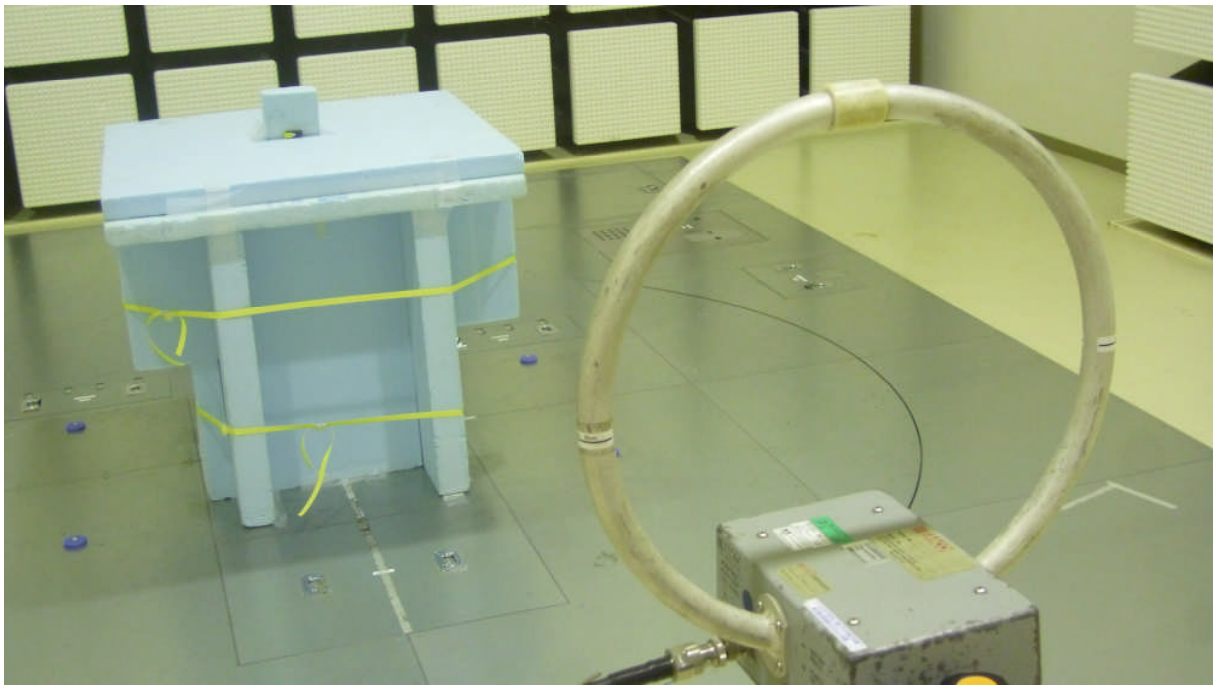


Photo3 Test setup for radiated (9kHz-30MHz)

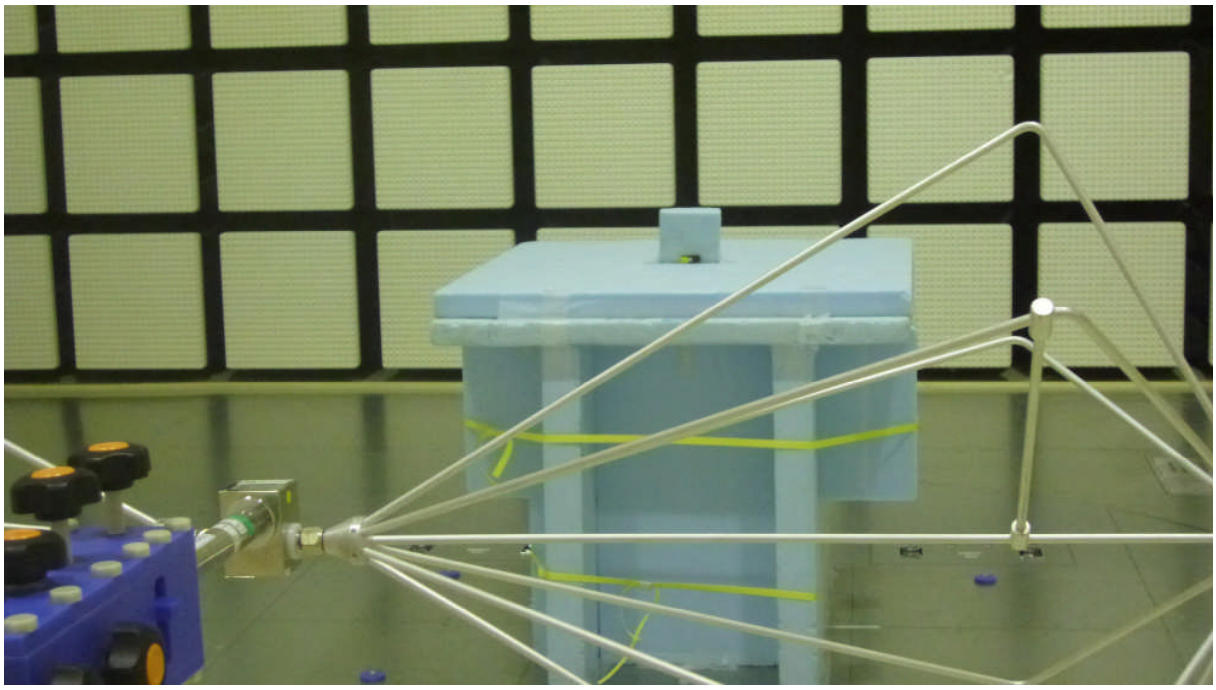


Photo4　Test setup for radiated (30-300MHz)

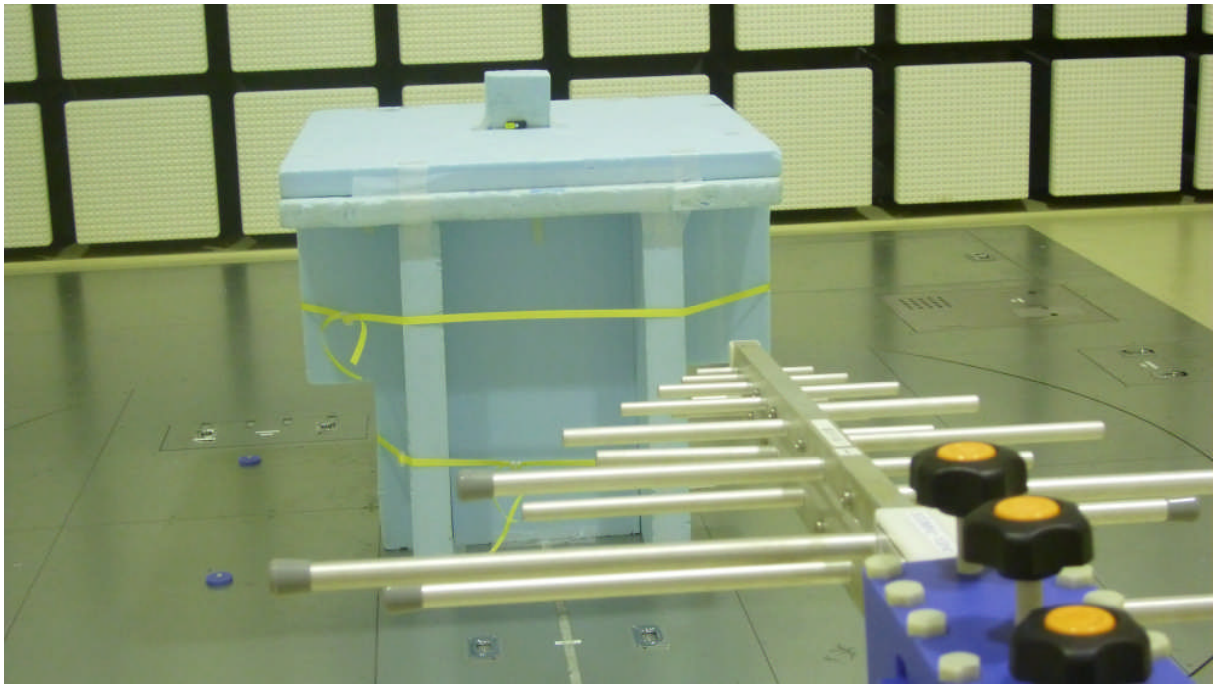


Photo5　Test setup for radiated (300-1000MHz)

4.3 Conducted

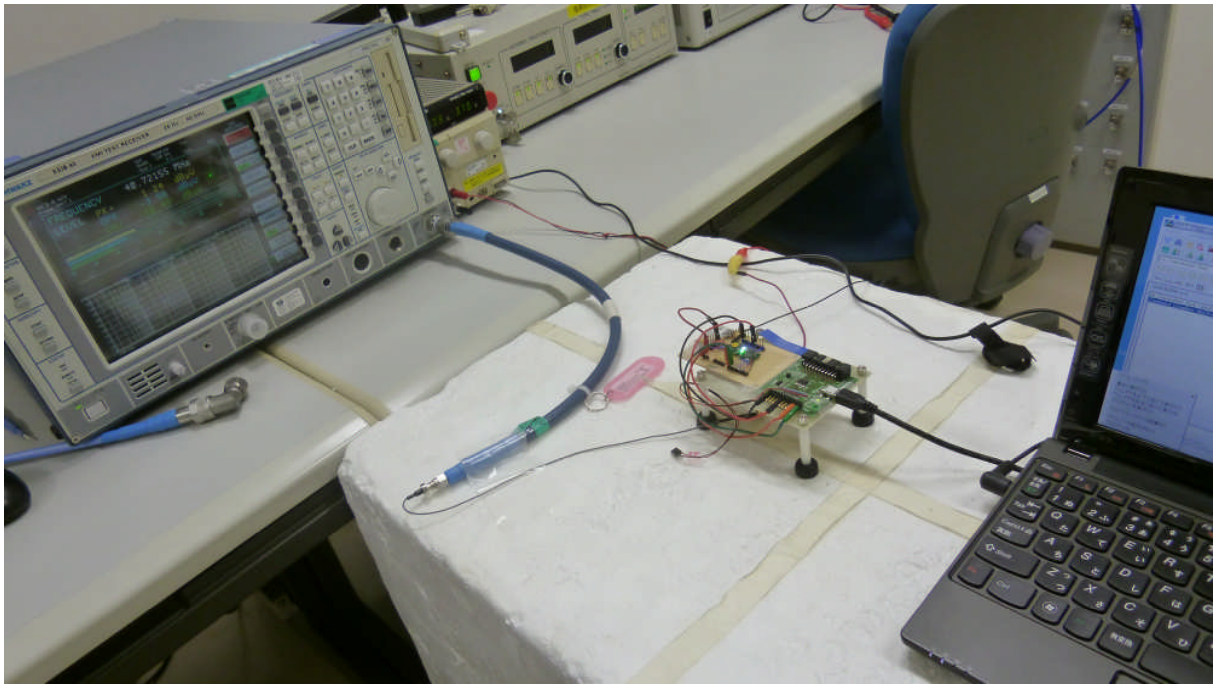


Photo6 Test setup for conducted(RF Test)

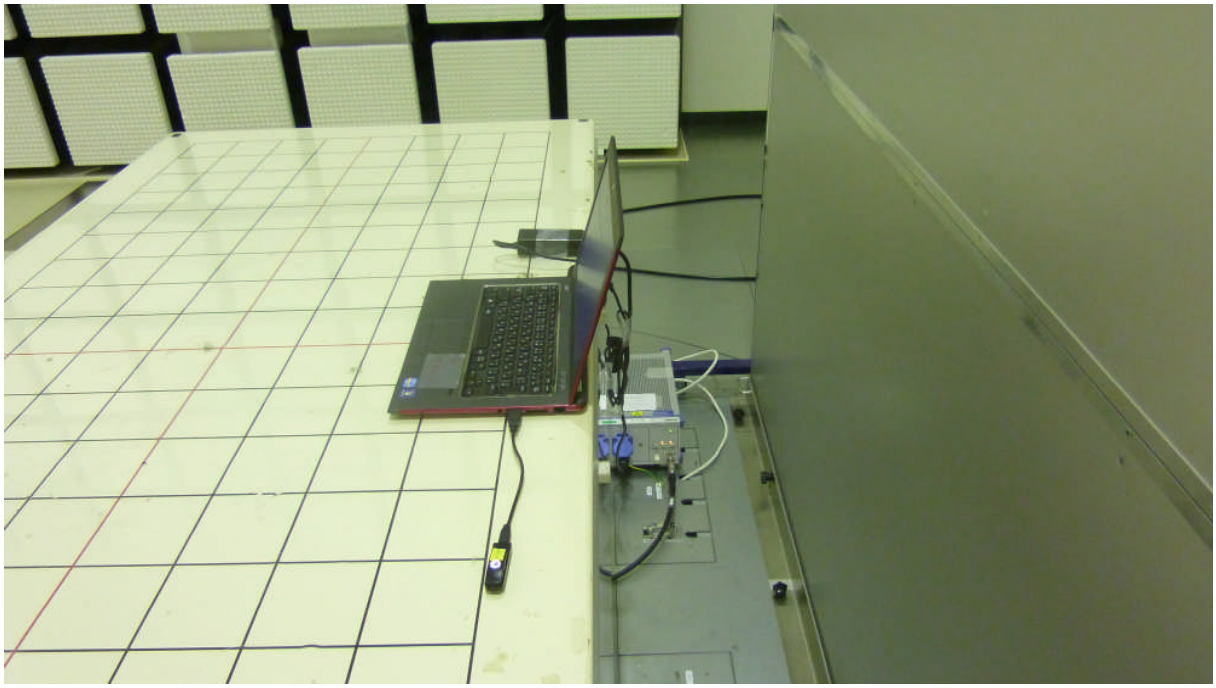


Photo7 Test setup for conducted(AC Line)

5.Test facility

5.1Test Instruments

5.1.1Conducted Emissions

Product Name	Manufacturer	Model Number	Serial Number	Calibration Date	Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB40	100263	2014/10/16	2015/10/31
Cable	Pasternack	PE315-24	-	2014/06/25	2015/06/30
LISN	Rohde & Schwarz	ENV216	100466	2014/07/22	2015/07/31

5.1.2 Radiated Electric-Field Emissions

Product Name	Manufacturer	Model Number	Serial Number	Calibration Date	Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB40	100263	2014/10/16	2015/10/31
Pre amplifier	SONOMA INSTRUMENT	310N	2805A03194	2014/07/29	2015/07/31
Pre amplifier	Hewlett Packard	8449B	3008A2309	2014/01/22	2015/01/31
Cable	Mini-Circuits	CBL-25FT-NMNM+	83148	2013/12/20	2014/12/31
Cable	Mini-Circuits	CBL-25FT-NMNM+	83145	2013/12/20	2014/12/31
Cable	Mini-Circuits	CBL-2M-NMNM+	71548	2013/12/20	2014/12/31
Cable	Mini-Circuits	CBL-1M-NMNM+	104547/4	2013/12/20	2014/12/31
Loop Antenna	EMCO	6507	9108-1268	2014/10/07	2015/10/31
Biconical Antenna	Schwarzbeck	VHA9103B	91032542	2014/08/21	2015/08/31
Logperidic antenna	Schwarzbeck	UHALP9108A	0779	2014/08/21	2015/08/31
Horn Antenna	ETS-LINDGREN	3117	00146463	2014/05/26	2015/05/31
Horn Antenna	ETS-LINDGREN	3116C	00146359	2014/01/28	2015/01/31

5.2 Test equipment

Dimension	Material	Measurement
1.5m(W) X 0.8m(H) X 1.0m(D)	Polystyrene	Radiated Emissions
0.4m(W) X 0.7m(H) X 0.4m(D)	Polystyrene	Conducted Emissions

Annex A (Miscellaneous Information)

A.1 Test Locations

Unless otherwise described in this report, the tests were carried out at the following locations:

Astronouts Noborito Laboratory
294 NoboritoTama-ku Kawasaki-shi, Kanagawa, Japan
TEL: +81-44-819-8601
FAX: +81-44-819-8603

Annex B (Description of Test Method)

Unless otherwise described in this report, tests are carried out using the methods which are described in the applied standards and summarized in this section.

Specifically for 47 CFR 15 Subpart B, section 6 of ANSI C63.4-2003 is to be used for EUT arrangements and operations, and section 8 of the standard is to be used for radiated emissions measurement procedures.

B.1 Conducted Emissions (AC Main and Other Terminals)

Table-top EUT is placed on a wooden table so that one side (rear or bottom) of the EUT is separated 0.4 m from the reference plane (metallic wall or ground plane), and floor-standing EUT is placed on the ground plane.
Mains to the EUT is supplied through a LISN, and mains to non-EUT components, if any, are supplied through yet another LISN(s).
If LISN is not applicable, mains would be supplied directly and a voltage probe would be used instead for the measurement.
For each current-carrying conductors or terminals to be measured, a spectrum analyzer is used to pre-scan the emissions.
For each of the significant emissions detected, the maximum signal level is read using a measuring receiver having CISPR 16 quasi-peak (QP) and average (AV) detector function and 9 kHz nominal bandwidth.
Then, appropriate correction factor —consists of transducer (LISN or voltage probe) factor and transmission loss (due to the attenuator, filter and/or transient suppressor, if any, and the cable) in the system— is applied to the receiver reading to calculate the corresponding emission level.
For example, if reading on the receiver is 33.0 dBµV, the transducer factor is 0.5 dB, and transmission loss (attenuation) in the coaxial cable and the attenuator is 10.5 dB, the emission level is calculated as:
33.0 dBµV + 0.5 dB + 10.5 dB = 44.0 dBµV.
Finally, the calculated emission level is compared with the upper limit specified in the standard.
Actual measurement will be carried out according to the appropriate edition of CISPR 16-2-1, CISPR 22, and ANSI C63.4 and/or other standards whichever applicable.
Specifically for 47 CFR 15 Subpart B, section 6 of ANSI C63.4-2003 is to be used for EUT arrangements and operations, and section 8 of the standard is to be used for radiated emissions measurement procedures.

B.2 Radiated Electric-Field Emissions (30 MHz to 1000MHz)

EUT is placed on a turn-table in a test site, on a table (styrene form) 0.8 m height or on the floor unless otherwise specified in the standard.
Receiving antenna ---usually biconical, log-periodic or biconical/log-periodic hybrid---is positioned at the specified distance from the EUT.
For each polarization (horizontal and vertical), a spectrum analyzer is used to pre-scan the emissions while rotating the turn-table.
For each of the significant electromagnetic field detected, the test personnel discriminates EUT's emissions from the ambient noises.
For each of the significant emissions, maximum level of the emission is searched while rotating the turn-table and varying the antenna height between 1 m and 4 m, and the maximum signal level is read using a measuring receiver having CISPR 16 quasi-peak (QP) detector function and 120 kHz nominal bandwidth.
Then, appropriate correction factor —consists of antenna factor, amplifier gain and transmission loss (due to the attenuator and the cable loss) in the system— is applied to the receiver reading to calculate the corresponding field strength.
For example, if reading on the receiver is 33.0 dBµV, the antenna factor is 9.4 dB (1/m), the amplifier gain is 25.6 dB, and transmission loss (attenuation) in the coaxial cable and the attenuator is 6.5 dB, the field strength is calculated as: 33.0 dBµV + 9.4 dB (1/m) - 25.6 dB + 6.5 dB = 23.3 dBµV/m.
Finally, the calculated field strength is compared with the upper limit specified in the standard.
Actual measurement will be carried out according to the appropriate edition of CISPR 16-2-3, CISPR 22, and ANSI C63.4 and/or other standards whichever applicable.
Specifically for 47 CFR 15 Subpart B, section 6 of ANSI C63.4-2003 is to be used for EUT arrangements and operations, and section 8 of the standard is to be used for radiated emissions measurement procedures.

B.3 Radiated Electric-Field Emissions above 1000MHz

EUT is placed on a turn-table in a test site, on a table (styrene foam) 0.8 m height or on the floor unless otherwise specified in the standard.
Receiving antenna ---usually double ridge waveguide horn or standard horn--- is positioned at the specified distance from the EUT.
For each polarization (horizontal and vertical), a spectrum analyzer is used to pre-scan the emissions while rotating the turn-table.
For each of the significant electromagnetic field detected, the test personnel discriminates EUT's emissions from the ambient noises.
For each of the significant emissions, maximum level of the emission is searched while rotating the turn-table and varying the antenna height if it is required, and the maximum signal level is read using a spectrum analyzer or a measuring receiver having peak detector function and 1 MHz nominal bandwidth, unless otherwise specified in the standard. To obtain average readings with spectrum analyzers, video averaging (usually with VBW = 10 Hz) may be used.
As specified in the applicable standard, the antenna height would be (1) varied between 1 m and 4 m, or (2) varied so that the whole height of the EUT is covered by the main lobe of the receiving antenna, or (3) fixed to the approximate radiation center of the EUT.
Then, appropriate correction factor ---consists of antenna factor, amplifier gain and transmission loss (due to the attenuator and the cable loss) in the system--- is applied to the spectrum analyzer/receiver reading to calculate the corresponding field strength, and the result is compared with the upper limit specified in the standard.
Actual measurement will be carried out according to the appropriate edition of CISPR 16-2-3, CISPR 22, ANSI C63.4 and/or other standards whichever applicable.
Specifically for 47 CFR 15 Subpart B, section 6 of ANSI C63.4-2003 is to be used for EUT arrangements and operations, and section 8 of the standard is to be used for radiated emissions measurement procedures.

B.4 Radiated Magnetic-Field Emissions

EUT is placed on a turn-table in a test site, on a (styrene foam) table 0.8 m height or on the floor unless otherwise specified in the standard.
Receiving antenna ---loop antenna (active or passive) --- is positioned at the specified distance from the EUT.
A spectrum analyzer is used to pre-scan the emissions while rotating the turn-table.
For each of the significant electromagnetic field detected, the test personnel discriminates EUT's emissions from the ambient noises.
For each of the significant emissions, maximum level of the emission is searched while rotating the turn-table and rotating the receiving antenna about its center, and the maximum signal level is read using a measuring receiver having CISPR 16 quasi-peak (QP) detector function and 120 kHz nominal bandwidth.
Then, appropriate correction factor ---consists of antenna factor, and transmission loss (cable loss) in the system--- is applied to the receiver reading to calculate the corresponding field strength, and the result is compared with the upper limit specified in the standard.
In general, it is assumed that magnetic field strength can be converted to electric field strength by applying the free space impedance of approximately 377 ohms, and vice versa.
Actual measurement will be carried out according to the appropriate edition of CISPR 16-2-3, ANSI C63.4 and/or other standards whichever applicable.