

TEST REPORT

Applicant : Sharp Corporation, Communication Systems Division
Address : 2-13-1, Iida Hachihonmatsu, Higashi-Hiroshima City, Hiroshima,
739-0192, JAPAN

Products : Smart Phone
Model No. : SH-03G
SERIAL NO. : 004401115391506
004401115391514

FCC ID : APYHRO00217

Test Standard : CFR 47 FCC Rules and Regulations Part 15

Test Results : **Passed**

Date of Test : March 11 ~ 23, 2015



A handwritten signature in black ink, appearing to read 'K. Shibata', is written over a horizontal line.

Kousei Shibata
Manager
Japan Quality Assurance Organization
KITA-KANSAI Testing Center
SAITO EMC Branch
7-3-10, Saito-asagi, Ibaraki-shi, Osaka 567-0085, Japan

- The measurement values stated in Test Report was made with traceable to National Institute of Advanced Industrial Science and Technology (AIST) of Japan and National Institute of Information and Communications Technology (NICT) of Japan.
- The applicable standard, testing condition and testing method which were used for the tests are based on the request of the applicant.
- The test results presented in this report relate only to the offered test sample.
- The contents of this test report cannot be used for the purposes, such as advertisement for consumers.
- This test report shall not be reproduced except in full without the written approval of JQA.
- VLAC does not approve, certify or warrant the product by this test report.

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DEFINITIONS FOR ABBREVIATION AND SYMBOLS USED IN THIS TEST REPORT**EUT** : Equipment Under Test**AE** : Associated Equipment**N/A** : Not Applicable**N/T** : Not Tested**EMC** : Electromagnetic Compatibility**EMI** : Electromagnetic Interference**EMS** : Electromagnetic Susceptibility - indicates that the listed condition, standard or equipment is applicable for this report. - indicates that the listed condition, standard or equipment is not applicable for this report.

1 Description of the Equipment Under Test

1. Manufacturer : Sharp Corporation, Communication Systems Division
2-13-1, Iida Hachihonmatsu, Higashi-Hiroshima City, Hiroshima,
739-0192, JAPAN
2. Products : Smart Phone
3. Model No. : SH-03G
4. Serial No. : 004401115391506
: 004401115391514
5. Product Type : Pre-production
6. Date of Manufacture : January, 2015
7. Power Rating : 4.0VDC (Lithium-ion Battery UBATIA258AFN1 3000mAh)
8. EUT Grounding : None
9. Transmitting Frequency : 2402.0 MHz(00CH) – 2480.0MHz(78CH)
10. Receiving Frequency : 2402.0 MHz(00CH) – 2480.0MHz(78CH)
11. Max. RF Output Power : 4.55dBm(Measure Value)
12. Antenna Type : Inverted-L Type Antenna (Integral)
13. Antenna Gain : 0 dBi
14. Category : Spread Spectrum Transmitter(FHSS)
15. EUT Authorization : Certification
16. Received Date of EUT : March 6, 2015

17. Channel Plan

The carrier spacing is 1 MHz.

The carrier frequency is designated by the absolute frequency channel number (ARFCN).

The carrier frequency is expressed in the equation shown as follows:

Normal Mode:

Transmitting Frequency (in MHz) = 2402.0 + n

Receiving Frequency (in MHz) = 2402.0 + n

where, n : channel number ($0 \leq n \leq 78$)

2 Summary of Test Results

Applied Standard : CFR 47 FCC Rules and Regulations Part 15
Subpart C – Intentional Radiators

The EUT described in clause 1 was tested according to the applied standard shown above.
Details of the test configuration is shown in clause 6.

The conclusion for the test items of which are required by the applied standard is indicated under the test result.

- The test result was **passed** for the test requirements of the applied standard.
- The test result was **failed** for the test requirements of the applied standard.
- The test result was **not judged** the test requirements of the applied standard.

In the approval of test results,

- Determining compliance with the limits in this report was based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- No deviations were employed from the applied standard.
- No modifications were conducted by JQA to achieve compliance to the limitations.

Reviewed by:

Tested by:



Shigeru Kinoshita
Assistant Manager
JQA KITA-KANSAI Testing Center
SAITO EMC Branch



Shigeru Osawa
Deputy Manager
JQA KITA-KANSAI Testing Center
SAITO EMC Branch

3 Test Procedure

Test Requirements : §15.247, §15.207 and §15.209

Test Procedure : ANSI C63.10–2009

The tests were performed with reference to the FCC Public Notice DA 00-705, released March 30, 2000.

4 Test Location

Japan Quality Assurance Organization (JQA)

KITA-KANSAI Testing Center

7-7, Ishimaru, 1-chome, Minoh-shi, Osaka, 562-0027, Japan

SAITO EMC Branch

7-3-10, Saito-asagi, Ibaraki-shi, Osaka 567-0085, Japan

5 Recognition of Test Laboratory

JQA KITA-KANSAI Testing Center SAITO EMC Branch is accredited under ISO/IEC 17025 by following accreditation bodies and the test facility is registered by the following bodies.

VLAC Accreditation No. : VLAC-001-2 (Expiry date : March 30, 2016)

VCCI Registration No. : A-0002 (Expiry date : March 30, 2016)

BSMI Registration No. : SL2-IS-E-6006, SL2-IN-E-6006, SL2-R1/R2-E-6006, SL2-A1-E-6006
(Expiry date : September 14, 2016)

IC Registration No. : 2079E-3, 2079E-4 (Expiry date : July 16, 2017)

Accredited as conformity assessment body for Japan electrical appliances and material law by METI.
(Expiry date : February 22, 2016)

6 Details of the Equipment Under Test

6.1 Operating Condition

Transmitting/Receiving

Bluetooth 4.0 + EDR + LE

Transmitting frequency : 2402.0 MHz(0CH) – 2480.0 MHz(78CH)

Receiver frequency : 2402.0 MHz(0CH) – 2480.0 MHz(78CH)

The test were carried under 2 mode shown as follows:

1) BDR

2) EDR

In Spurious Emissions(Conducted) and Radiated Emissions, the worst case is BDR mode.

Modulation Type

1. DH1/ DH3/ DH5 Packet (Modulation Type : GFSK)

2. 2DH1/ 2DH3/ 2DH5 Packet (Modulation Type : pi/4-DQPSK)

3. 3DH1/ 3DH3/ 3DH5 Packet (Modulation Type : 8DPSK)

Other Clock Frequency

19.2MHz, 48MHz, 12MHz, 27.12MHz

The EUT was rotated through three orthogonal axis (X, Y and Z axis) in radiated measurement.

The EUT with temporary antenna port was used in conducted measurement.

6.2 Test Configuration

The equipment under test (EUT) consists of :

	Item	Manufacturer	Model No.	Serial No.	FCC ID
A	Smart Phone	Sharp	SH-03G	004401115391506*1) 004401115391514*2)	APYHRO00217
B	AC Adapter	Fujitsu Corporation	05	XFA	N/A
C	Stereo Handsfree	Sharp	SHLDL1	--	N/A
D	DTV Antenna	Sharp	SH01	--	N/A

*1) Used for AC Powerline Conducted Emission and Field Strength of Spurious Emission

*2) Used for Antenna Conducted Emission

The auxiliary equipment used for testing :

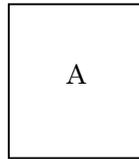
None

Type of Cable:

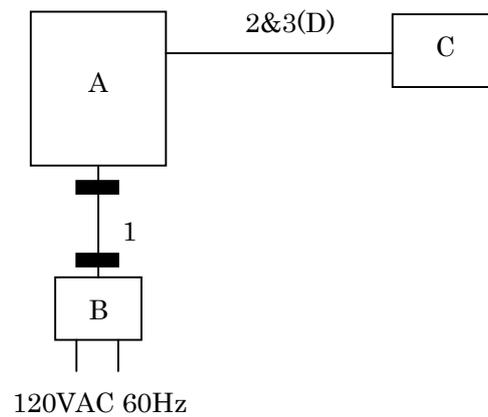
No.	Description	Identification (Manu. etc.)	Connector Shielded	Cable Shielded	Ferrite Core	Length (m)
1	USB conversion cable	--	--	NO	YES	1.2
2	Handsfree Cable	--	--	NO	NO	1.5
3	DTV Antenna Cable	--	--	NO	NO	0.3

6.3 Test Arrangement (Drawings)

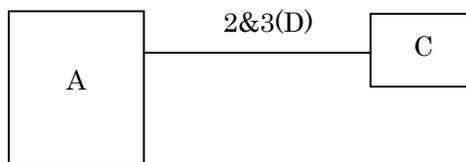
a) Single Unit



b) AC Adapter used



c) Earphone used

 : Ferrite Core

7 Details of the Test Item**7.0 Summary of the Test Results**

Test Item	FCC Specification	Reference of the Test Report	Results	Remarks
Antenna Requirement	Section 15.203	Section 1.12	Passed	-
Channel Separation	Section 15.247(a)(1)	Section 7.1	Passed	-
Minimum Hopping Channel	Section 15.247(a)(1)(iii)	Section 7.2	Passed	-
Occupied Bandwidth	Section 15.247(a)(1)	Section 7.3	Passed	-
Dwell Time	Section 15.247(a)(1)(iii)	Section 7.4	Passed	-
Peak Output Power (Conduction)	Section 15.247(b)(1)	Section 7.5	Passed	-
Peak Power Density (Conduction)	Section 15.247(e)	-	-	-
Spurious Emissions (Conduction)	Section 15.247(d)	Section 7.7	Passed	-
AC Powerline Conducted Emission	Section 15.207	Section 7.8	Passed	-
Radiated Emission	Section 15.247(d)	Section 7.9	Passed	-

7.1 Channel Separation

For the requirements, - Applicable - Tested. - Not tested by applicant request.]
 - Not Applicable

For the limits, - Passed - Failed - Not judged

7.1.1 Worst Point and Measurement Uncertainty

Channel Separation is 1.000 MHz
Channel Separation(Inquiry) is 2.000 MHz

Uncertainty of Measurement Results +/-0.9 %(2σ)

Remarks : _____

7.1.2 Test Site and Instruments**7.1.2.1 Test Site**

KITA-KANSAI Testing Center

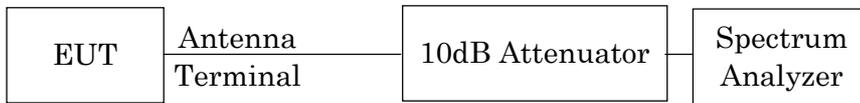
Test site : SAITO - Anechoic chamber (A1) - Measurement room (M1)
 - Measurement room (M2) - Measurement room (M3)
 - Shielded room (S1) - Shielded room (S2)
 - Shielded room (S3) - Shielded room (S4)

7.1.2.2 Test Instruments

Type	Model	Manufacturer	ID No.	Last Cal.	Interval
Spectrum Analyzer	E4446A	Agilent	A-39	2014/9	1 Year
Attenuator	54A-10	Weinschel	D-28	2014/9	1 Year
RF Cable	SUCOFLEX102	SUHNER	C-52	2014/8	1 Year

7.1.3 Test Method and Test Setup (Diagrammatic illustration)

The test system is shown as follows:



The setting of the spectrum analyzer are shown as follows:

Res. Bandwidth	100 kHz
Video Bandwidth	300 kHz
Span	3 MHz / 5 MHz
Sweep Time	AUTO
Trace	Maxhold

7.1.4 Test Data

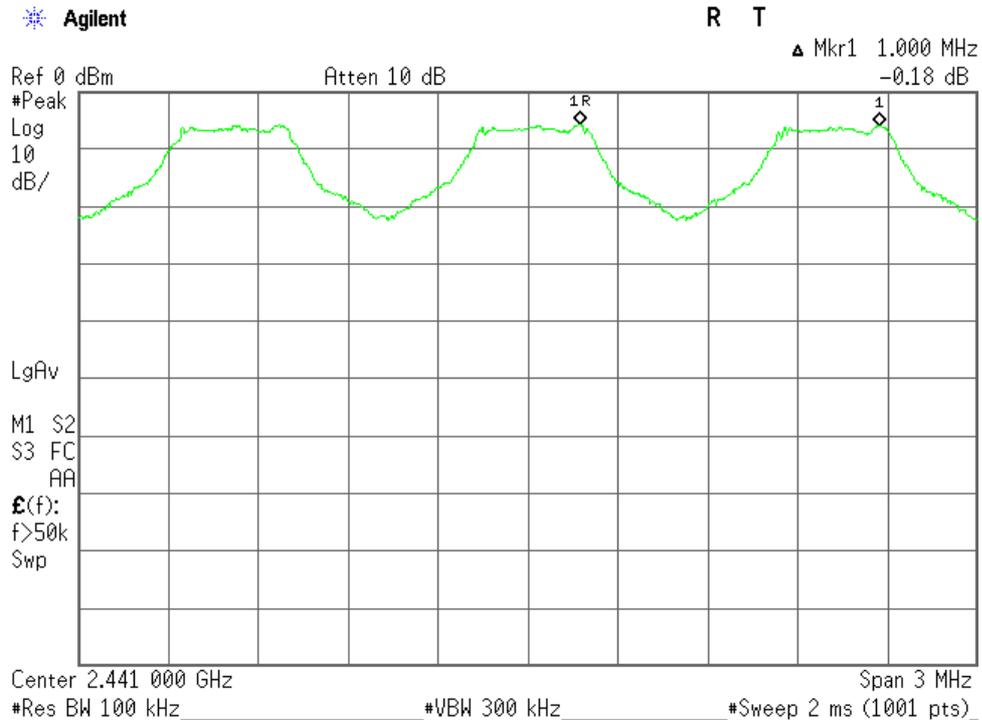
Test Date : March 11, 2015

Temp.:22°C, Humi:23%

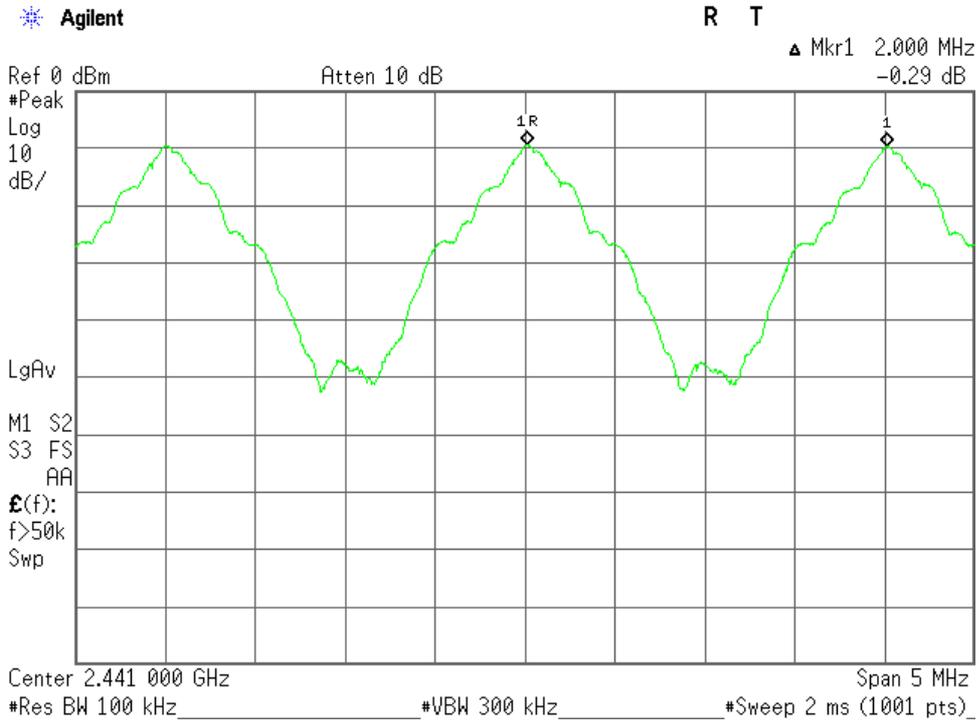
Mode of EUT	Channel Separation (MHz)	Limit* (MHz)
Hopping	1.000	0.878
Inquiry	2.000	0.553

Note: Two-thirds of the maximum 20 dB bandwidth of the hopping channel or 25 kHz (whichever is greater)

Mode of EUT : Hopping



Mode of EUT : Inquiry



7.2 Minimum Hopping Channel

For the requirements, - Applicable - Tested. - Not tested by applicant request.]
 - Not Applicable

For the limits, - Passed - Failed - Not judged

7.2.1 Worst Point and Measurement Uncertainty

Number of Channel is	<u>79</u>
Number of Channel (Inquiry) is	<u>32</u>
Number of Channel (AFH) is	<u>20</u>

Remarks : _____

7.2.2 Test Site and Instruments

7.2.2.1 Test Site

KITA-KANSAI Testing Center

Test site : SAITO

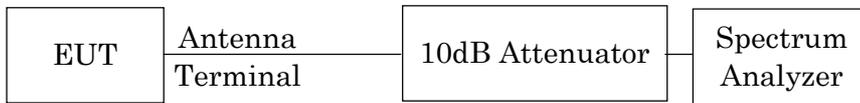
<input type="checkbox"/> - Anechoic chamber (A1)	<input type="checkbox"/> - Measurement room (M1)
<input type="checkbox"/> - Measurement room (M2)	<input type="checkbox"/> - Measurement room (M3)
<input type="checkbox"/> - Shielded room (S1)	<input type="checkbox"/> - Shielded room (S2)
<input type="checkbox"/> - Shielded room (S3)	<input checked="" type="checkbox"/> - Shielded room (S4)

7.2.2.2 Test Instruments

Type	Model	Manufacturer	ID No.	Last Cal.	Interval
Spectrum Analyzer	E4446A	Agilent	A-39	2014/9	1 Year
Attenuator	54A-10	Weinschel	D-28	2014/9	1 Year
RF Cable	SUCOFLEX102	SUHNER	C-52	2014/8	1 Year

7.2.3 Test Method and Test Setup (Diagrammatic illustration)

The test system is shown as follows:



The setting of the spectrum analyzer are shown as follows:

Res. Bandwidth	300 kHz
Video Bandwidth	300 kHz
Span	30 MHz
Sweep Time	AUTO
Trace	Maxhold

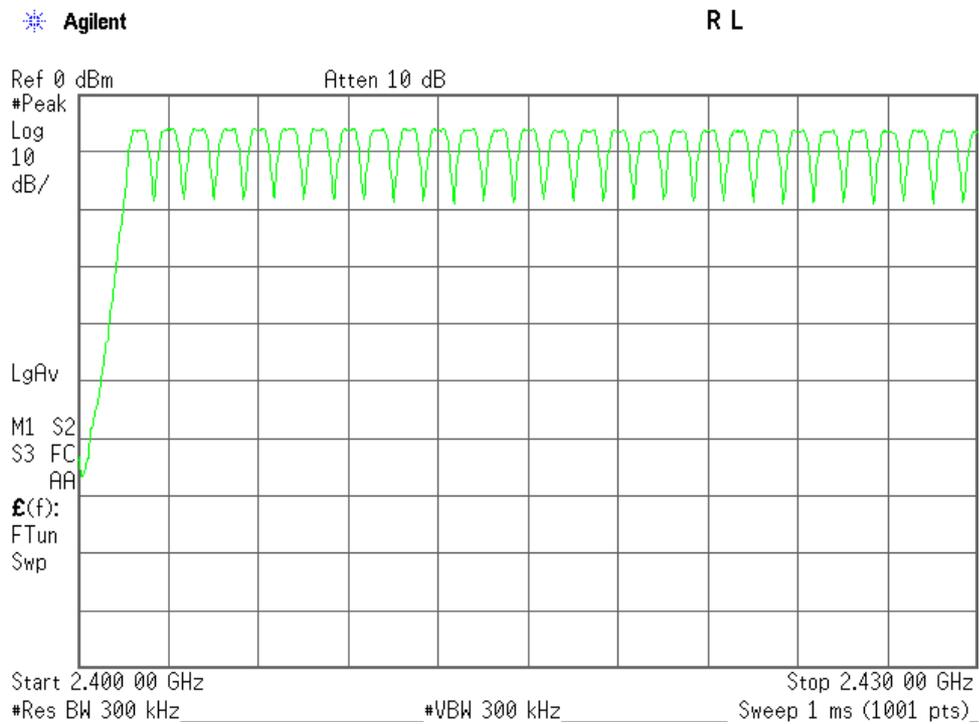
7.2.4 Test Data

Test Date : March 11, 2015

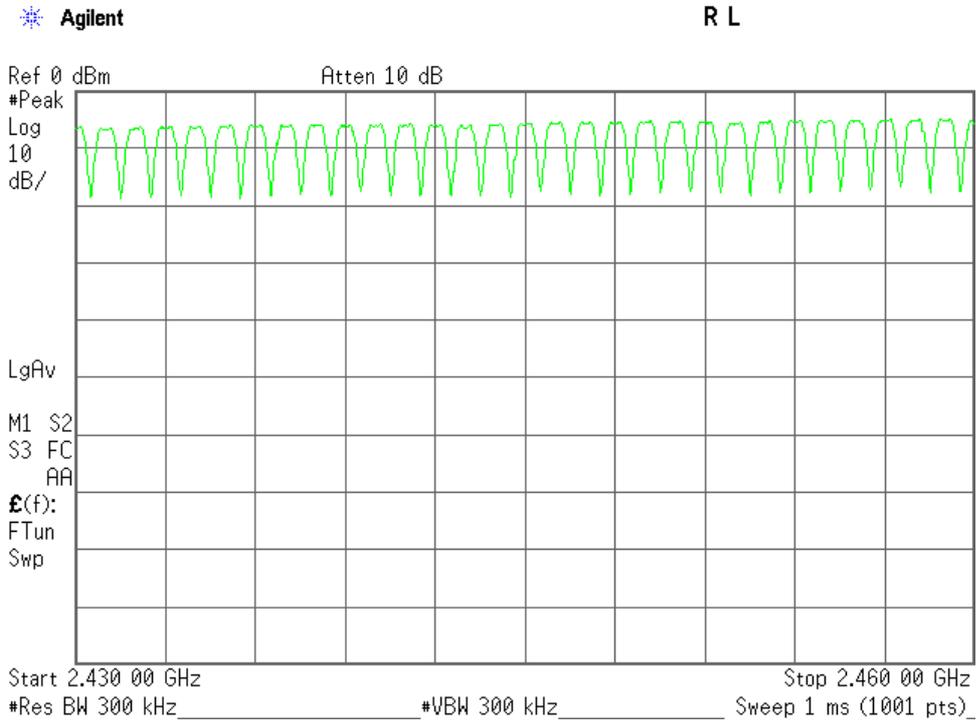
Temp.:22°C, Humi:23%

Mode of EUT	Minimum Hopping Channel	Limit
Hopping	79	15
Inquiry	32	15
AFH(minimum)	20	15

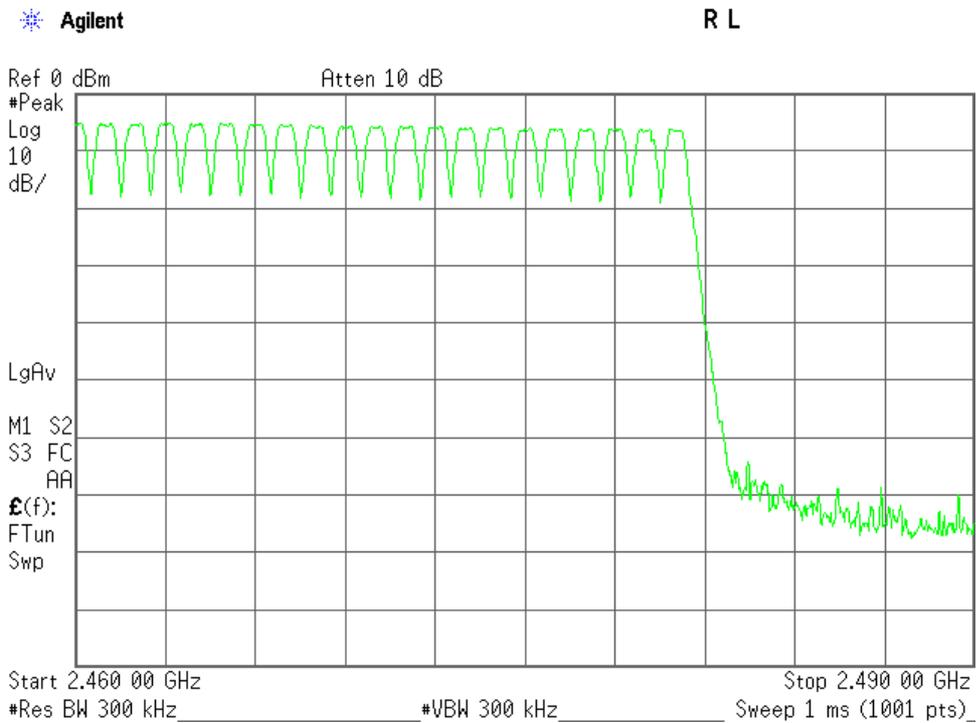
Mode of EUT : Hopping(1/3)



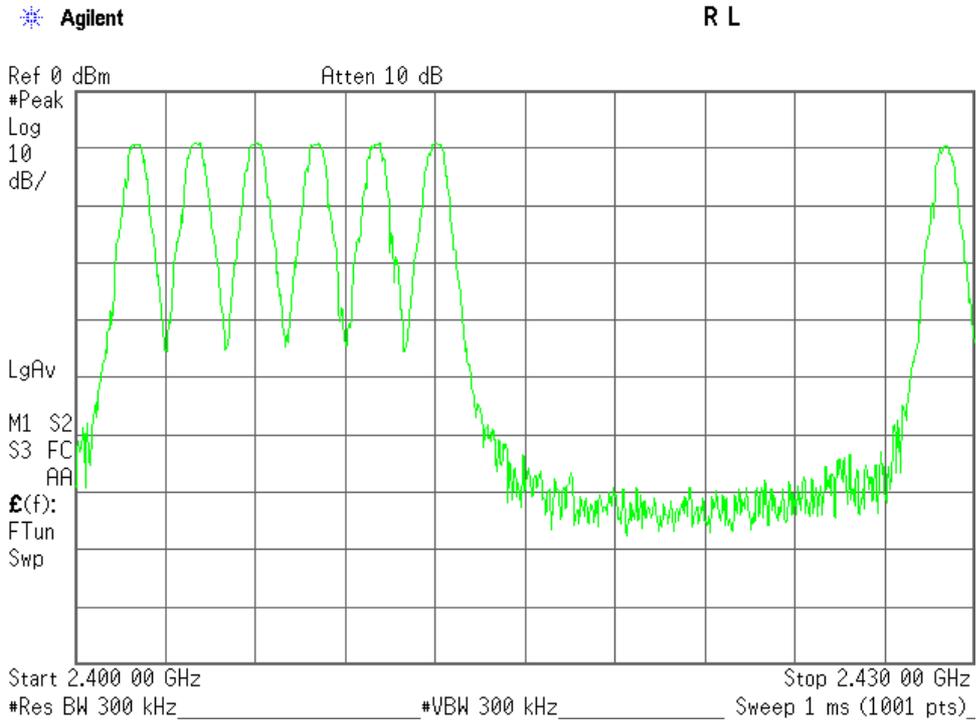
Mode of EUT : Hopping(2/3)



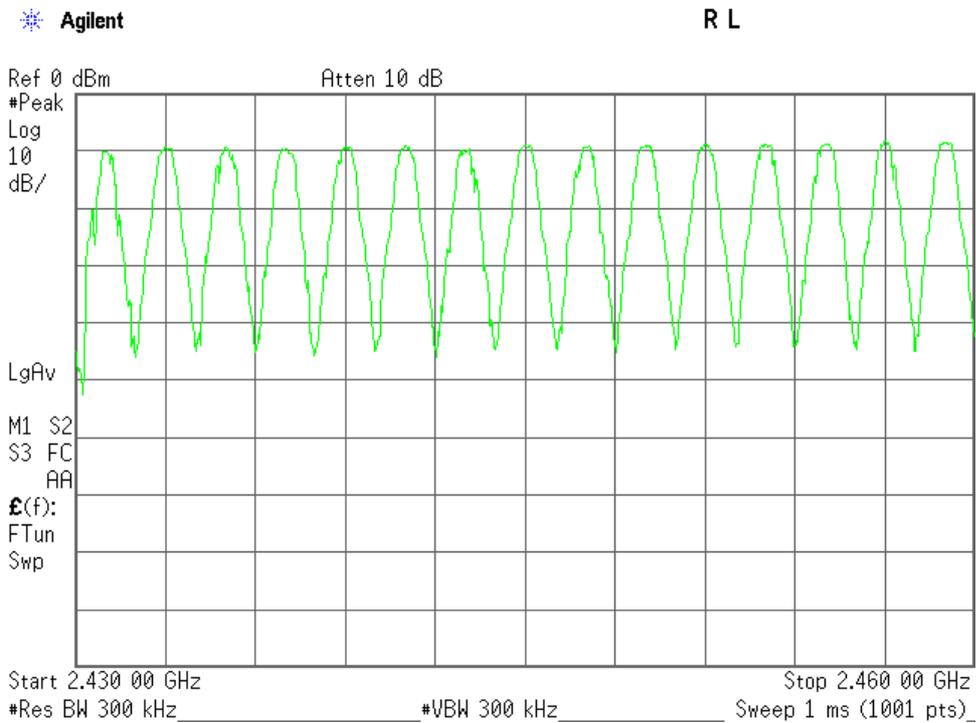
Mode of EUT : Hopping(3/3)



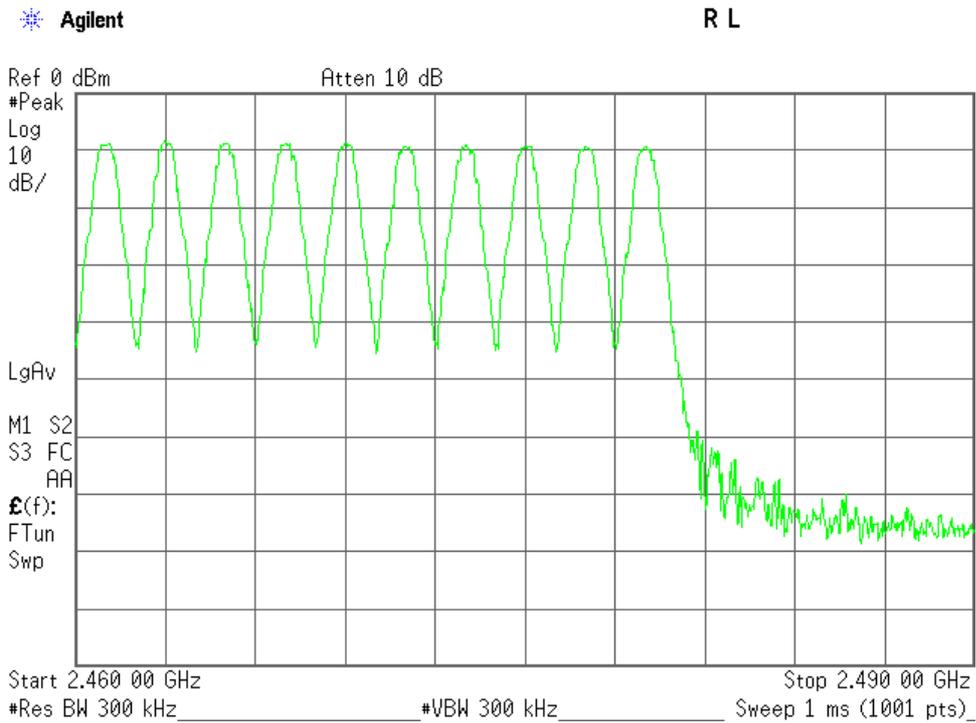
Mode of EUT : Inquiry(1/3)



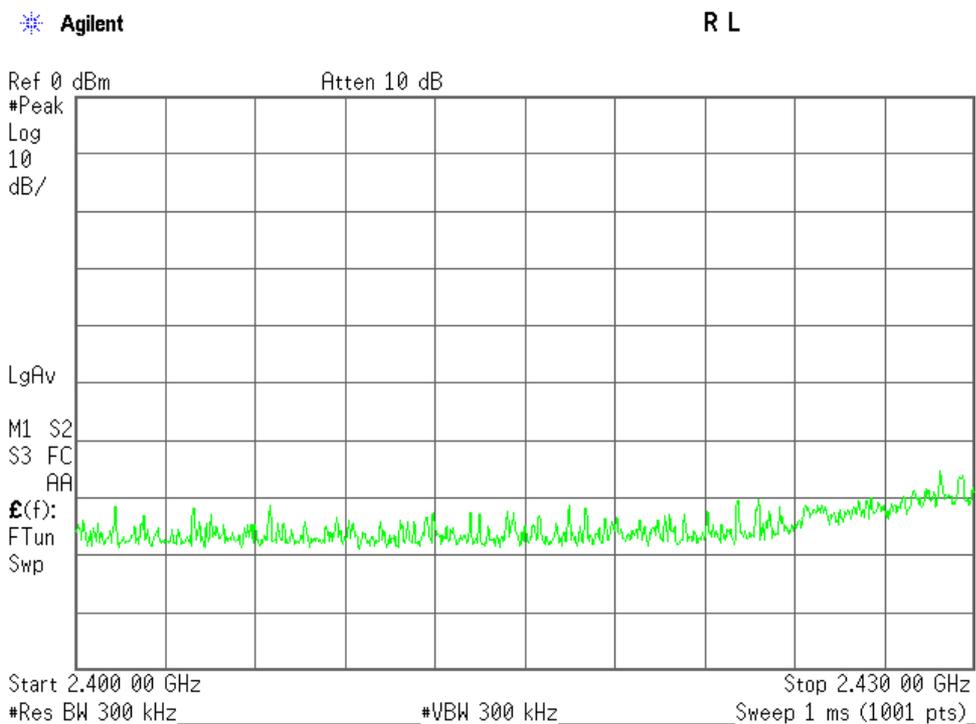
Mode of EUT : Inquiry(2/3)



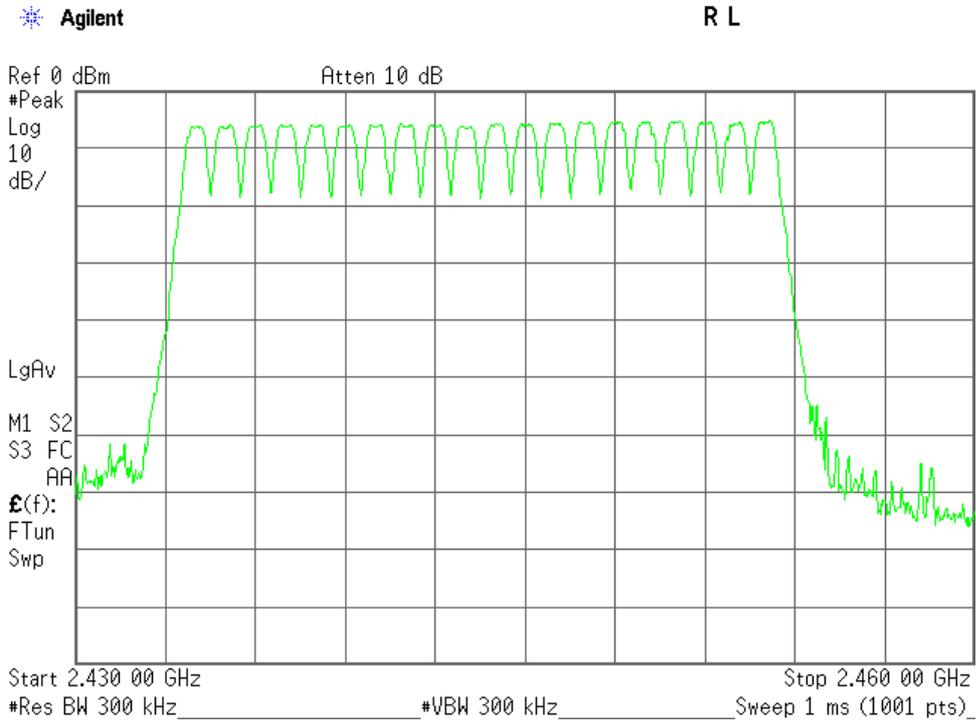
Mode of EUT : Inquiry(3/3)



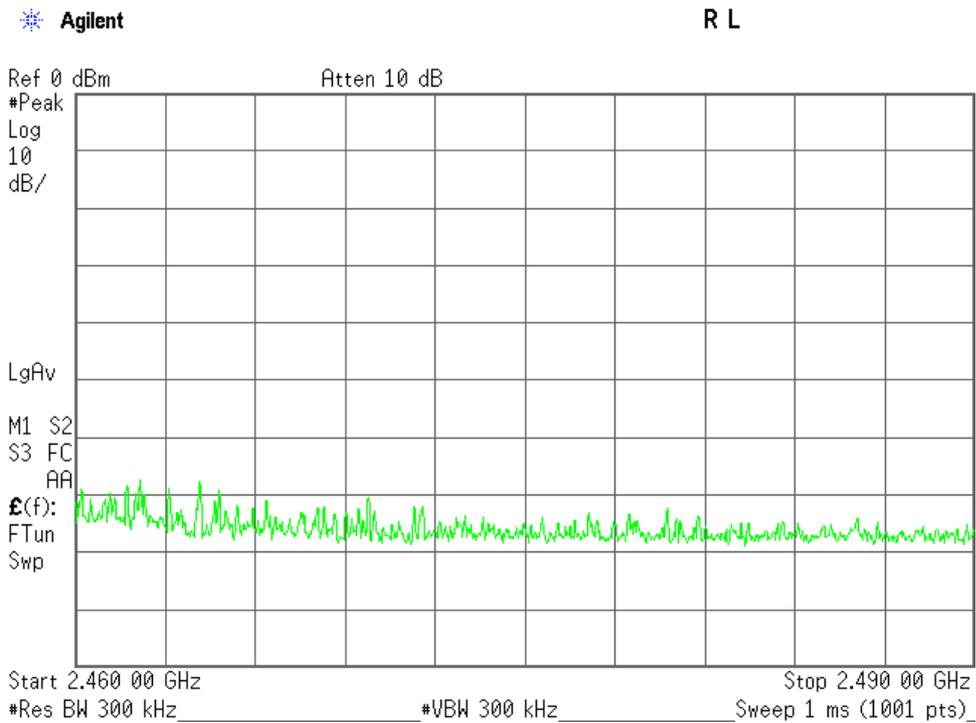
Mode of EUT : AFH(minimum)(1/3)



Mode of EUT : AFH(minimum) (2/3)



Mode of EUT : AFH(minimum) (3/3)



7.3 Occupied Bandwidth

For the requirements, - Applicable - Tested. - Not tested by applicant request.]
 - Not Applicable

For the limits, - Passed - Failed - Not judged

7.3.1 Worst Point and Measurement Uncertainty

The 99% Bandwidth is 1182.2 kHz at 2480.0 MHz
The 20dB Bandwidth is 1317.0 kHz at 2402.0 MHz

Uncertainty of Measurement Results +/-0.9 %(2σ)

Remarks : _____

7.3.2 Test Site and Instruments

7.3.2.1 Test Site

KITA-KANSAI Testing Center

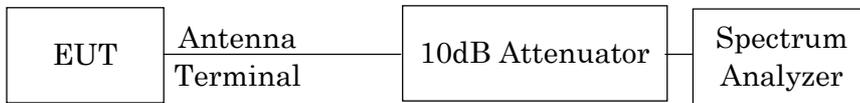
Test site : SAITO - Anechoic chamber (A1) - Measurement room (M1)
 - Measurement room (M2) - Measurement room (M3)
 - Shielded room (S1) - Shielded room (S2)
 - Shielded room (S3) - Shielded room (S4)

7.3.2.2 Test Instruments

Type	Model	Manufacturer	ID No.	Last Cal.	Interval
Spectrum Analyzer	E4446A	Agilent	A-39	2014/9	1 Year
Attenuator	54A-10	Weinschel	D-28	2014/9	1 Year
RF Cable	SUCOFLEX102	SUHNER	C-52	2014/8	1 Year

7.3.3 Test Method and Test Setup (Diagrammatic illustration)

The test system is shown as follows:



The setting of the spectrum analyzer are shown as follows:

Res. Bandwidth	30 kHz
Video Bandwidth	100 kHz
Span	3 MHz
Sweep Time	AUTO
Trace	Maxhold

7.3.4 Test Data

Mode of EUT : BDR+EDR

Test Date : March 11, 2015

Temp.:22°C, Humi:23%

The resolution bandwidth was set to about 1% of emission bandwidth, -20dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

1)Packet Setting : DH5(Modulation type : GFSK)

Channel	Frequency (MHz)	99% Bandwidth (kHz)	-20dBc Bandwidth (kHz)	Two-thirds of the 20 dB bandwidth (kHz)
00	2402.0	912.9	980.8	653.9
39	2441.0	906.6	944.8	629.9
78	2480.0	911.0	972.6	648.4

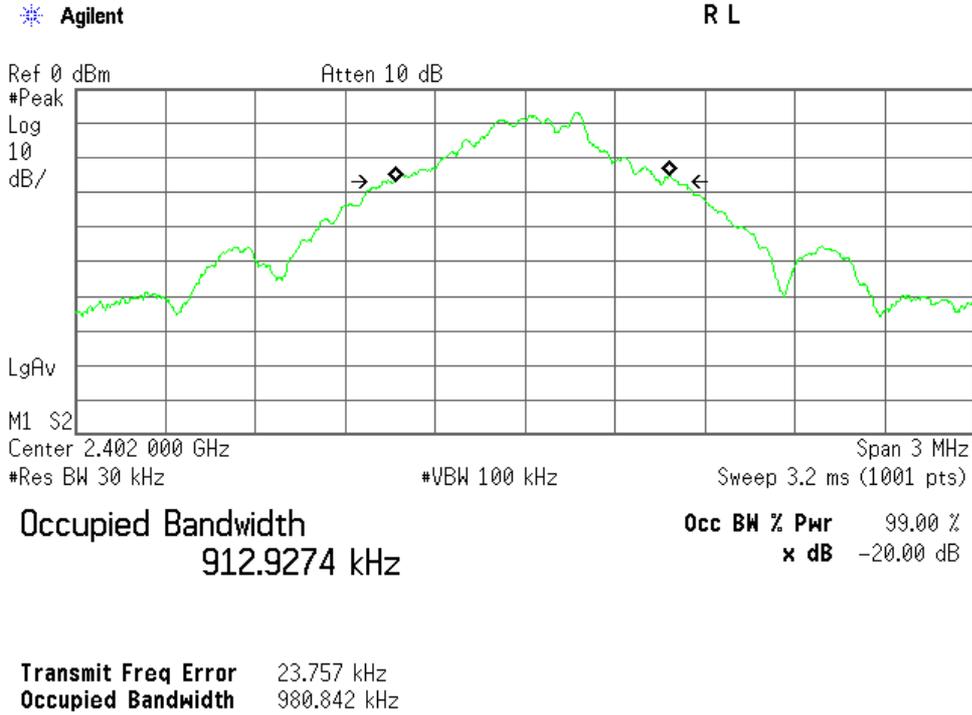
2)Packet Setting : 2DH5(Modulation type : pi/4-DQPSK)

Channel	Frequency (MHz)	99% Bandwidth (kHz)	-20dBc Bandwidth (kHz)	Two-thirds of the 20 dB bandwidth (kHz)
00	2402.0	1177.3	1317.0	878.0
39	2441.0	1174.9	1283.0	855.3
78	2480.0	1178.6	1281.0	854.0

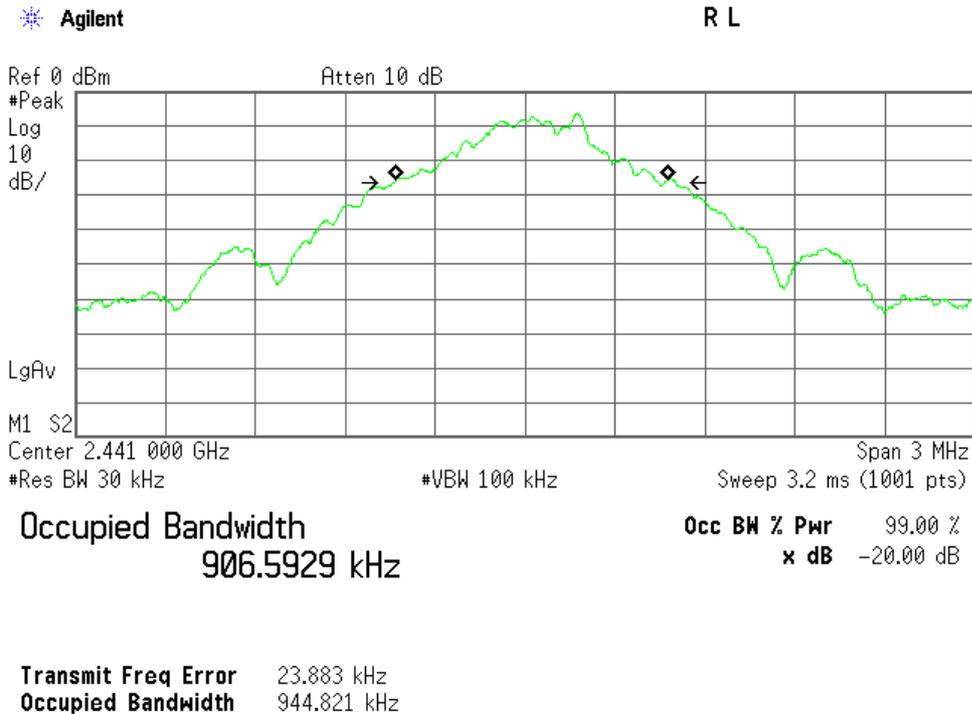
3)Packet Setting : 3DH5(Modulation type : 8DPSK)

Channel	Frequency (MHz)	99% Bandwidth (kHz)	-20dBc Bandwidth (kHz)	Two-thirds of the 20 dB bandwidth (kHz)
00	2402.0	1175.9	1286.0	857.3
39	2441.0	1174.9	1286.0	857.3
78	2480.0	1182.2	1291.0	860.7

1)Packet Setting : DH5(Modulation type : GFSK)
Low Channel



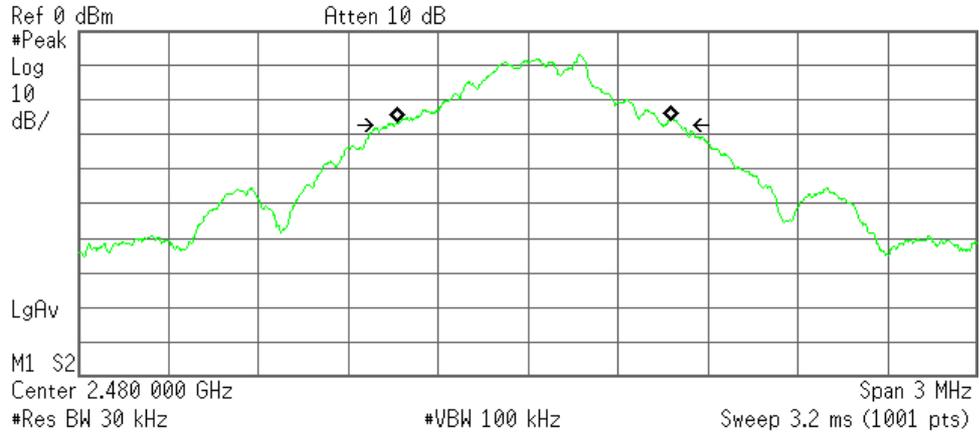
Middle Channel



High Channel

Agilent

R T

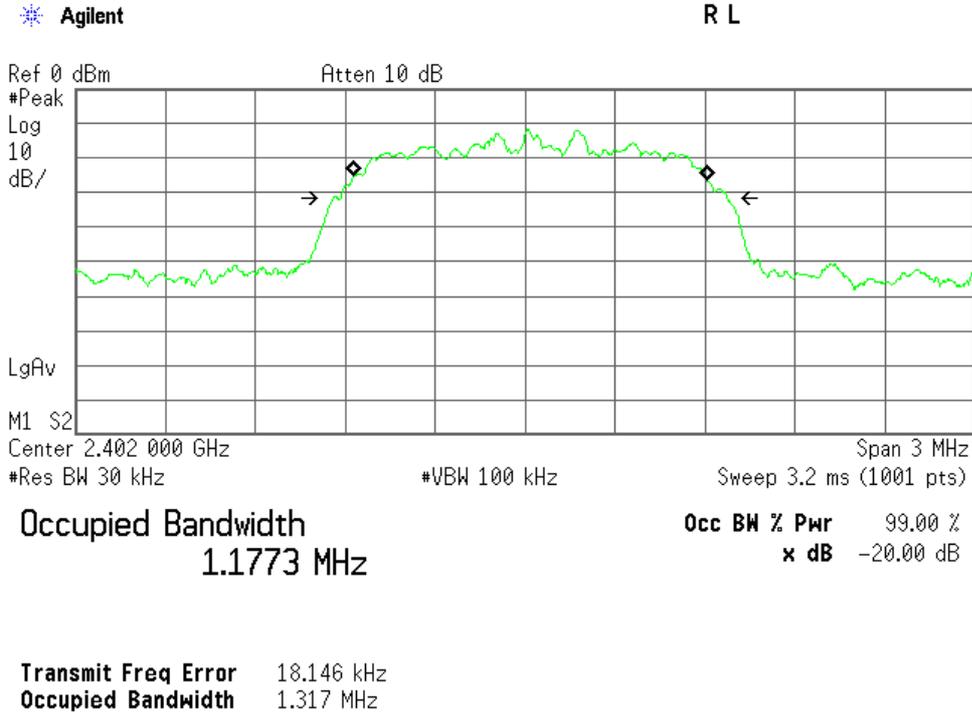


Occupied Bandwidth
911.0172 kHz

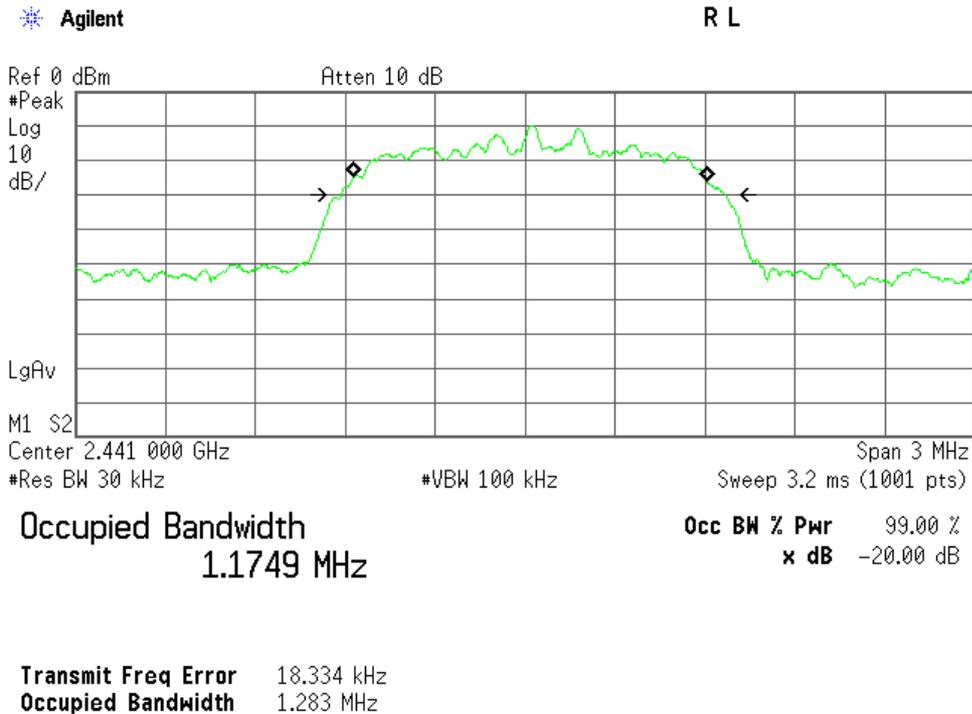
Occ BW % Pwr 99.00 %
x dB -20.00 dB

Transmit Freq Error 20.651 kHz
Occupied Bandwidth 972.589 kHz

2)Packet Setting : 2DH5(Modulation type : pi/4-DQPSK)
 Low Channel



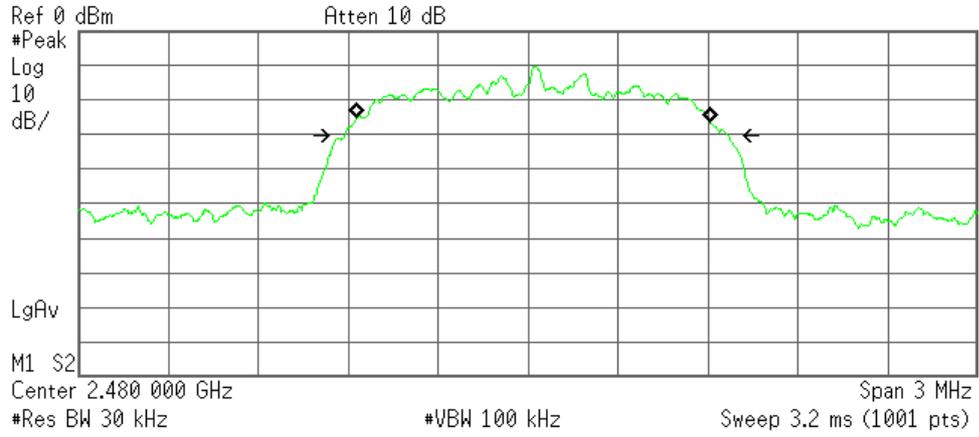
Middle Channel



High Channel

Agilent

R T

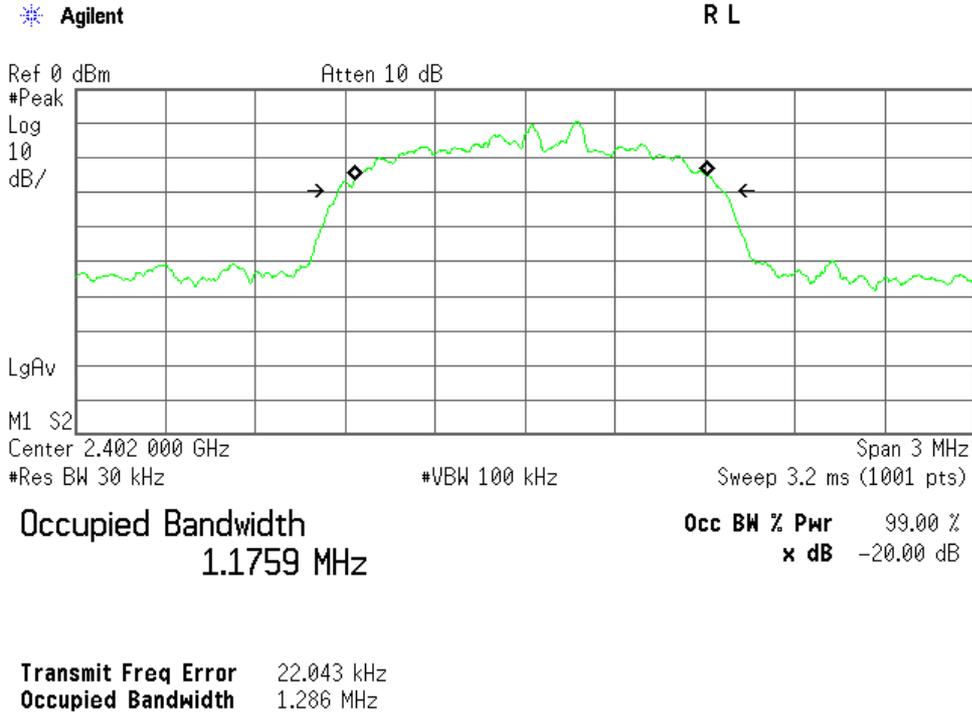


Occupied Bandwidth
1.1786 MHz

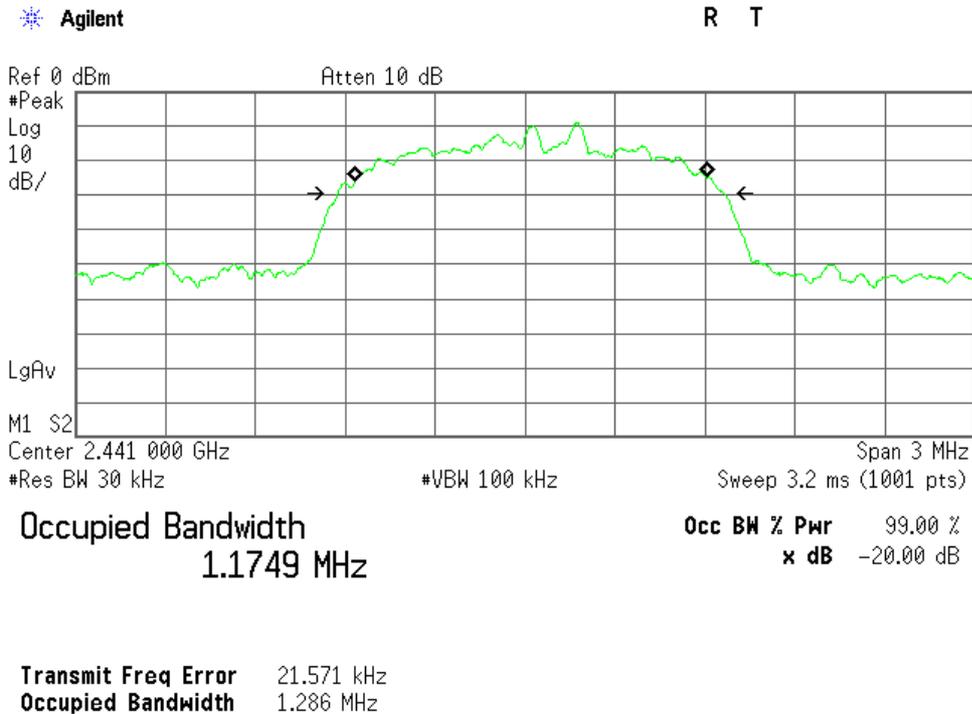
Occ BW % Pwr 99.00 %
x dB -20.00 dB

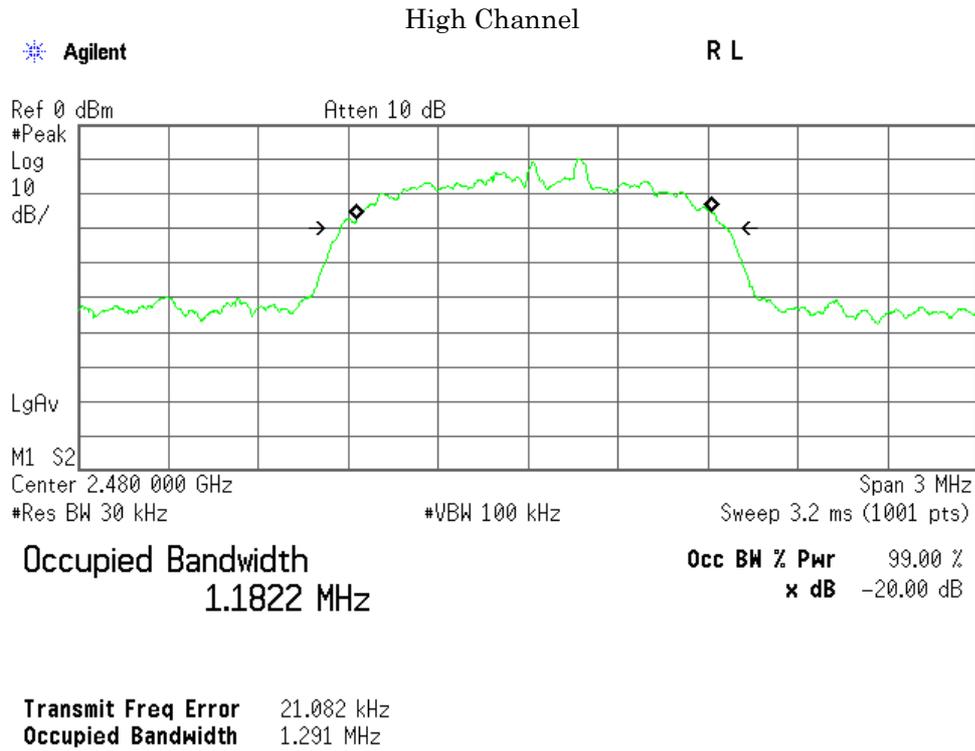
Transmit Freq Error 18.301 kHz
Occupied Bandwidth 1.281 MHz

3)Packet Setting : 3 DH5(Modulation type : 8DPSK)
Low Channel



Middle Channel





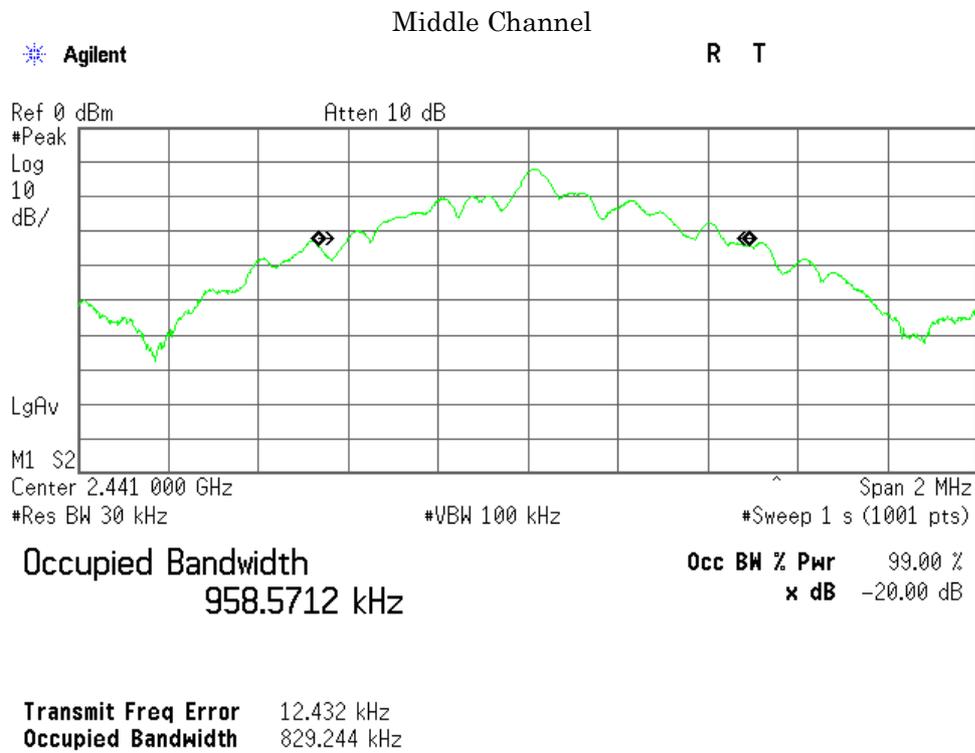
Mode of EUT : Inquiry

Test Date : March 11, 2015

Temp.:22°C, Humi:23%

The resolution bandwidth was set to about 1% of emission bandwidth, -20dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

Frequency (MHz)	99% Bandwidth (kHz)	-20dBc Bandwidth (kHz)	Two-thirds of the 20 dB bandwidth (kHz)
2441.0	958.6	829.2	552.8



7.4 Dwell Time

For the requirements, - Applicable - Tested. - Not tested by applicant request.]
 - Not Applicable

For the limits, - Passed - Failed - Not judged

7.4.1 Worst Point and Measurement Uncertainty

Dwell Time is 307.8 msec
Dwell Time (Inquiry) is 63.7 msec
Dwell Time (AFH) is 307.8 msec

Uncertainty of Measurement Results +/-0.6 %(2σ)

Remarks : _____

7.4.2 Test Site and Instruments**7.4.2.1 Test Site**

KITA-KANSAI Testing Center

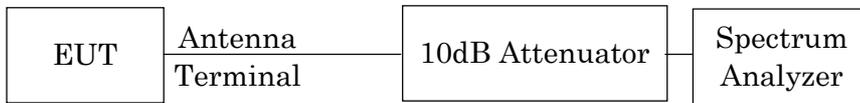
Test site : SAITO - Anechoic chamber (A1) - Measurement room (M1)
 - Measurement room (M2) - Measurement room (M3)
 - Shielded room (S1) - Shielded room (S2)
 - Shielded room (S3) - Shielded room (S4)

7.4.2.2 Test Instruments

Type	Model	Manufacturer	ID No.	Last Cal.	Interval
Spectrum Analyzer	E4446A	Agilent	A-39	2014/9	1 Year
Attenuator	54A-10	Weinschel	D-28	2014/9	1 Year
RF Cable	SUCOFLEX102	SUHNER	C-52	2014/8	1 Year

7.4.3 Test Method and Test Setup (Diagrammatic illustration)

The test system is shown as follows:



The setting of the spectrum analyzer are shown as follows:

Res. Bandwidth	1 MHz
Video Bandwidth	1 MHz
Span	Zero Span

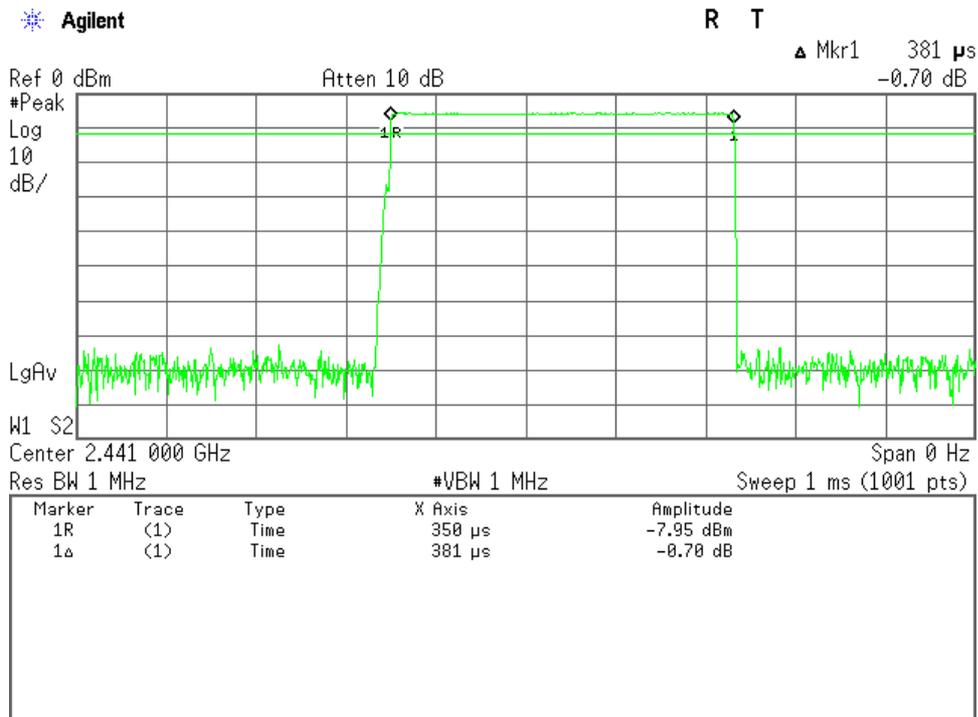
7.4.4 Test Data

Test Date : March 11, 2015

Temp.:22°C, Humi:23%

Mode of EUT	Dwell Time (msec)	Limit (msec)
DH1	121.9	400
DH3	262.1	400
DH5	307.8	400
Inquiry	63.7	400

DH1(Modulation type : GFSK)

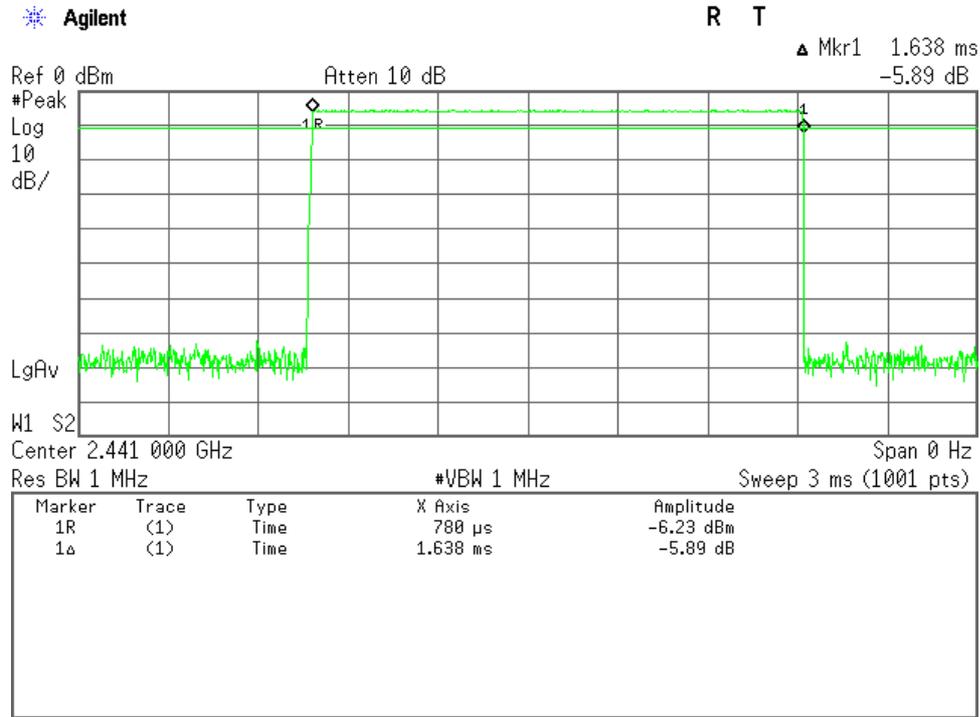


Note : The system makes worst case 1600 hops per second or 1 time slot has a length of 625 μs with 79 channels. A DH1 Packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 800 hops per second with 79 channels. So the system has each channel 10.1266 times per second and so for 31.6 seconds the system have 320.0 times of appearance.

Each tx-time per appearance is 0.381 ms.

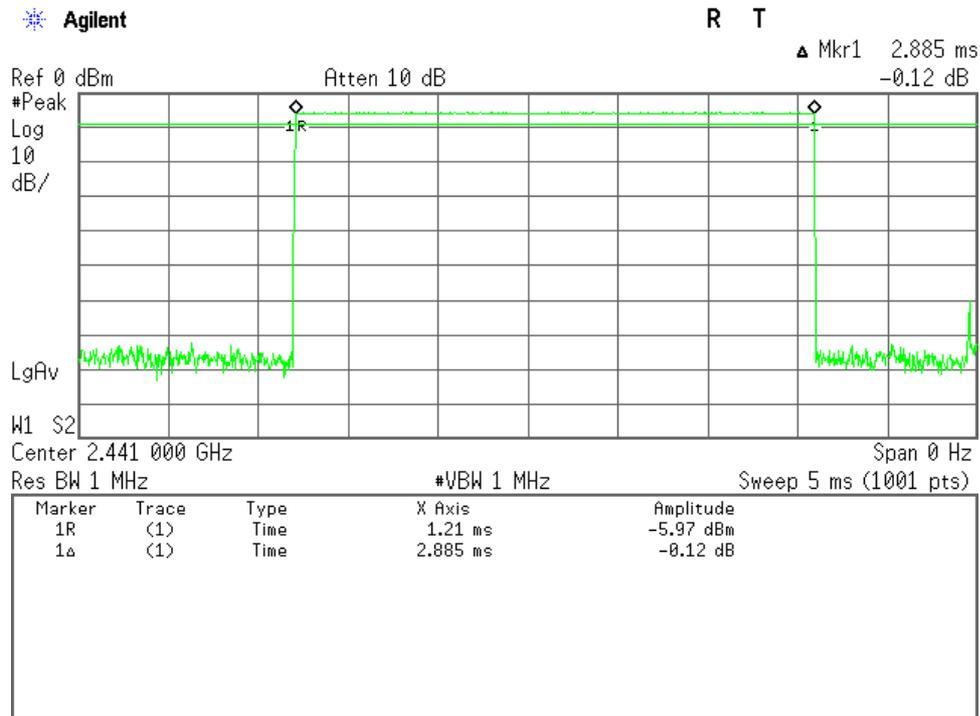
Dwell time = 320.0 * 0.381 = 121.9 ms

DH3(Modulation type : GFSK)



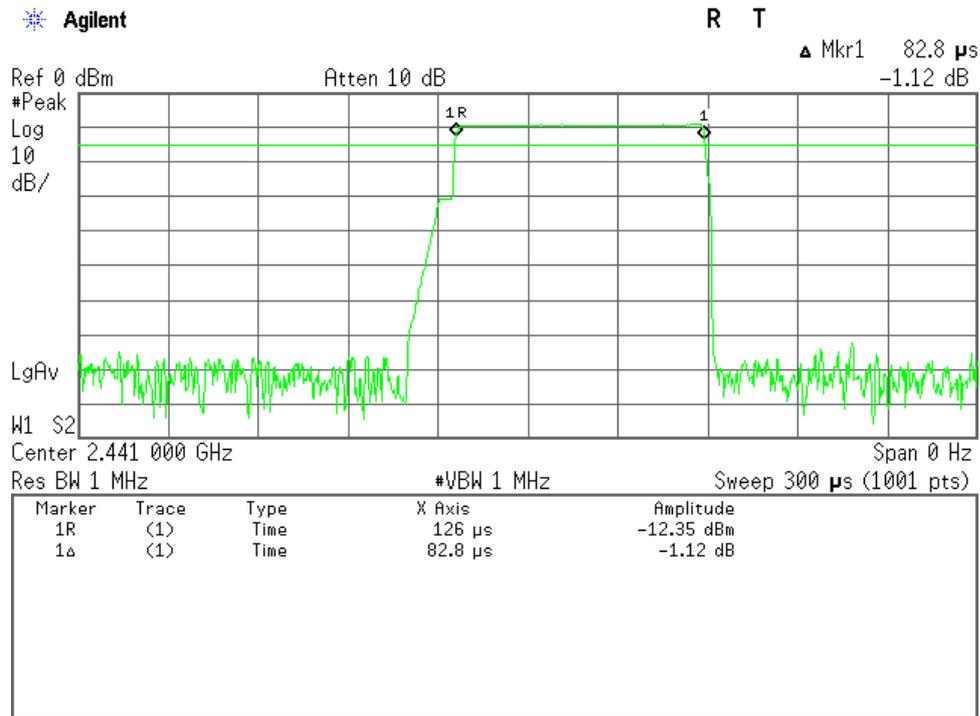
Note : A DH3 Packet need 3 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 400 hops per second with 79 channels. So the system have each channel 5.063 times per second and so for 31.6 seconds the system have 160.0 times of appearance. Each tx-time per appearance is 1.638 ms.
 Dwell time = 160.0 * 1.638 = 262.1 ms

DH5(Modulation type : GFSK)



Note : A DH5 Packet need 5 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 266.667 hops per second with 79 channels. So the system have each channel 3.3755 times per second and so for 31.6 seconds the system have 106.7 times of appearance. Each tx-time per appearance is 2.885 ms.
Dwell time = 106.7 * 2.885 = 307.8 ms

Inquiry



Note : The system have 32 hopping channel in Inquiry mode.

The time period = $32 * 0.4 = 12.8$ seconds

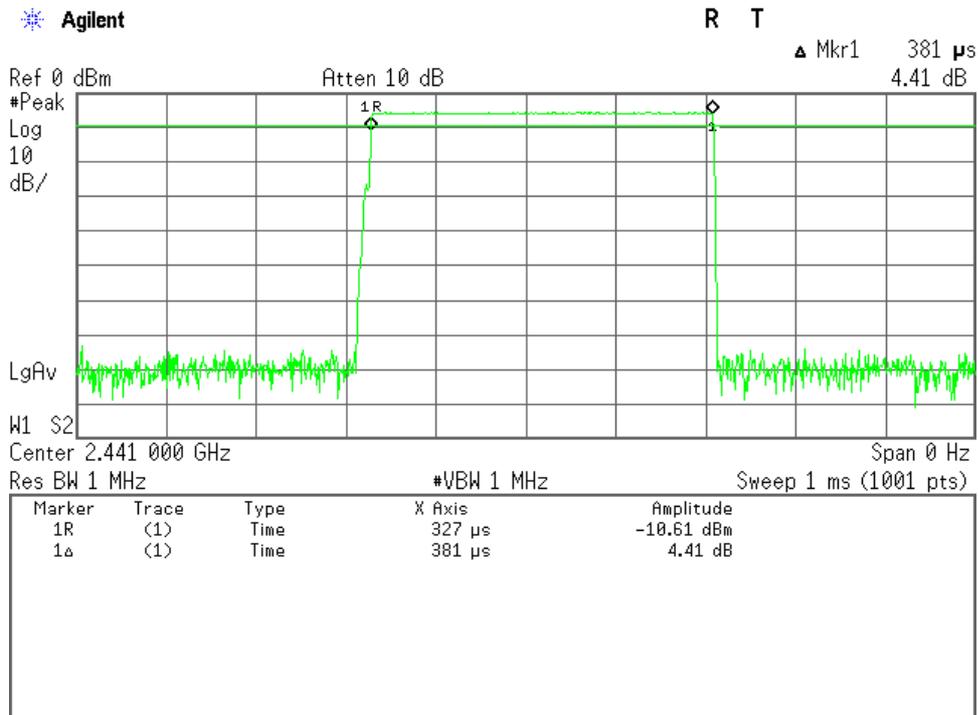
In maximum case the Bluetooth system have three blocks of 2560 ms in 12.8 s period. One block has 256 burst at each hopping channel.

Each tx-time per appearance is 0.083 ms.

Dwell time = $0.083 * 256 * 3 = 63.7$ ms

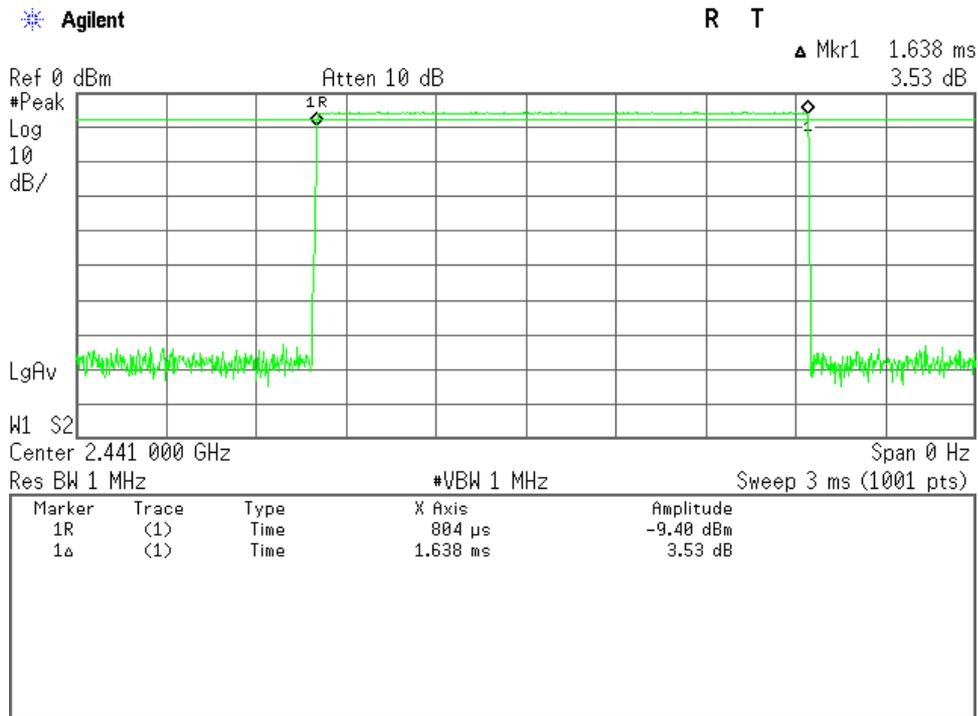
Mode of EUT	Dwell Time (msec)	Limit (msec)
DH1(AFH)	121.9	400
DH3(AFH)	262.1	400
DH5(AFH)	307.8	400

DH1(AFH mode, Modulation type : GFSK)



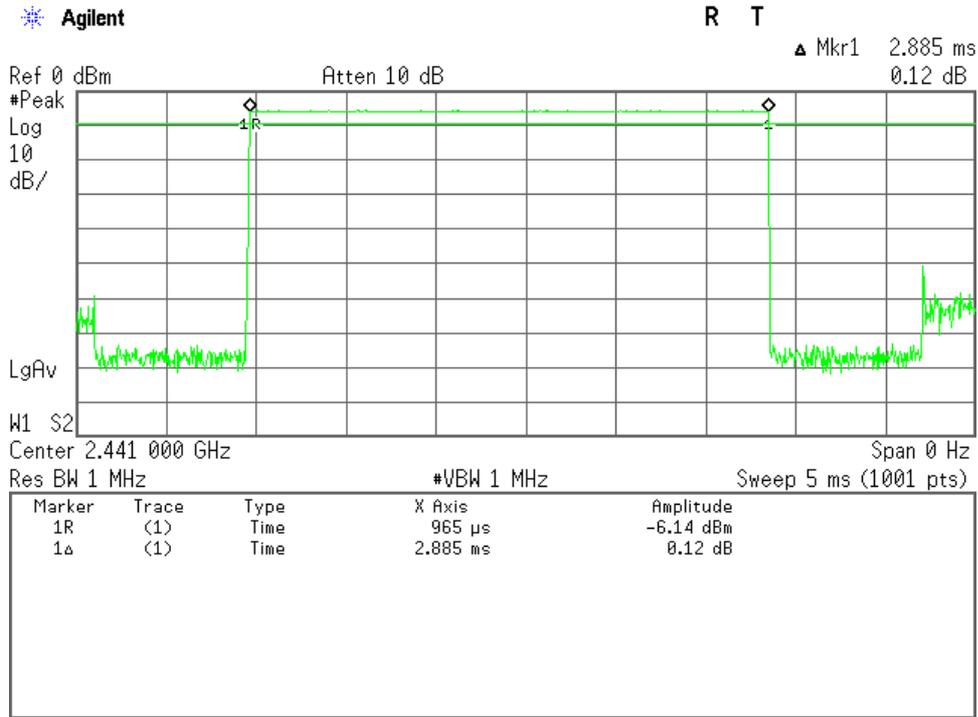
Note : The system makes worst case 1600 hops per second or 1 time slot has a length of 625 μs with 79 channels. A DH1 Packet need 1 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 800 hops per second with 20 channels. So the system has each channel 40 times per second and so for 8 seconds the system have 320.0 times of appearance. Each tx-time per appearance is 0.381 ms.
Dwell time = 320.0 * 0.381 = 121.9 ms

DH3(AFH mode, Modulation type : GFSK)



Note : A DH3 Packet need 3 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 400 hops per second with 20 channels. So the system have each channel 20 times per second and so for 8 seconds the system have 160.0 times of appearance. Each tx-time per appearance is 1.638 ms.
 Dwell time = 160.0 * 1.638 = 262.1 ms

DH5(AFH mode, Modulation type : GFSK)



Note : A DH5 Packet need 5 time slot for transmitting and 1 time slot for receiving. Then the system makes worst case 266.667 hops per second with 20 channels. So the system have each channel 13.33335 times per second and so for 8 seconds the system have 106.7 times of appearance. Each tx-time per appearance is 2.885 ms.
 Dwell time = 106.7 * 2.885 = 307.8 ms

7.5 Peak Output Power(Conduction)

For the requirements, - Applicable - Tested. - Not tested by applicant request.]
 - Not Applicable

For the limits, - Passed - Failed - Not judged

7.5.1 Worst Point and Measurement Uncertainty

Peak Output Power is 4.55 dBm at 2441.0 MHz

Uncertainty of Measurement Results at Amplitude +/-0.9 dB(2 σ)

Remarks : _____

7.5.2 Test Site and Instruments**7.5.2.1 Test Site**

KITA-KANSAI Testing Center

Test site : SAITO

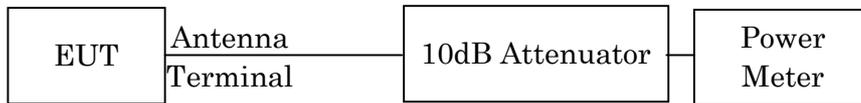
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<input type="checkbox"/> - Measurement room (M2)	<input type="checkbox"/> - Measurement room (M3)
<input type="checkbox"/> - Shielded room (S1)	<input type="checkbox"/> - Shielded room (S2)
<input type="checkbox"/> - Shielded room (S3)	<input checked="" type="checkbox"/> - Shielded room (S4)

7.5.2.2 Test Instruments

Type	Model	Manufacturer	ID No.	Last Cal.	Interval
Power Meter	N1911A	Agilent	B-63	2014/7	1 Year
Power Sensor	N1921A	Agilent	B-64	2014/7	1 Year
Attenuator	54A-10	Weinschel	D-28	2014/9	1 Year
RF Cable	SUCOFLEX102	SUHNER	C-52	2014/8	1 Year

7.5.3 Test Method and Test Setup (Diagrammatic illustration)

The Conducted RF Power Output was measured with a power meter, one 10dB attenuator and a short, low loss cable.



7.5.4 Test Data

1)DH5(Modulation type : GFSK)

Test Date: March 11, 2015
Temp.: 22 °C, Humi: 23 %

CH	Transmitting Frequency	Correction Factor	Meter Reading	Conducted		Limits	Margin
	[MHz]			Peak Output Power	[mW]		
		[dB]	[dBm]	[dBm]		[dBm]	[dB]
00	2402	10.34	-6.06	4.28	2.68	20.97	+16.69
39	2441	10.35	-5.80	4.55	2.85	20.97	+16.42
78	2480	10.36	-6.22	4.14	2.59	20.97	+16.83

Calculated result at 2441.000 MHz, as the worst point shown on underline:

Correction Factor	=	10.35 dB
+) Meter Reading	=	-5.80 dBm
Result	=	4.55 dBm = 2.85 mW

Minimum Margin: 20.97 - 4.55 = 16.42 (dB)

NOTES

1. The correction factor shows the attenuation pad loss including the short, low loss cable or adapter.
2. Setting of measuring instrument(s) :

Detector Function	Video B.W.
Peak	Off

2)2DH5(Modulation type : pi/4-DQPSK)

Test Date: March 11, 2015
Temp.: 22 °C, Humi: 23 %

CH	Transmitting Frequency		Correction Factor [dB]	Meter Reading [dBm]	Conducted Peak Output Power		Limits [dBm]	Margin [dB]
	[MHz]				[dBm]	[mW]		
00	2402		10.34	-6.87	3.47	2.22	20.97	+17.50
39	2441		10.35	-6.55	3.80	2.40	20.97	+17.17
78	2480		10.36	-6.96	3.40	2.19	20.97	+17.57

Calculated result at 2441.000 MHz, as the worst point shown on underline:

Correction Factor	=	10.35 dB
+) Meter Reading	=	-6.55 dBm
Result	=	3.80 dBm = 2.40 mW

Minimum Margin: 20.97 - 3.80 = 17.17 (dB)

NOTES

1. The correction factor shows the attenuation pad loss including the short, low loss cable or adapter.
2. Setting of measuring instrument(s) :

Detector Function	Video B.W.
Peak	Off

3)3DH5(Modulation type : 8DPSK)

Test Date: March 11, 2015
Temp.: 22 °C, Humi: 23 %

CH	Transmitting Frequency		Correction Factor [dB]	Meter Reading [dBm]	Conducted Peak Output Power		Limits [dBm]	Margin [dB]
	[MHz]				[dBm]	[mW]		
00	2402		10.34	-6.50	3.84	2.42	20.97	+17.13
39	2441		10.35	-6.19	4.16	2.61	20.97	+16.81
78	2480		10.36	-6.60	3.76	2.38	20.97	+17.21

Calculated result at 2441.000 MHz, as the worst point shown on underline:

Correction Factor	=	10.35 dB
+) Meter Reading	=	-6.19 dBm
Result	=	4.16 dBm = 2.61 mW

Minimum Margin: 20.97 - 4.16 = 16.81 (dB)

NOTES

- The correction factor shows the attenuation pad loss including the short, low loss cable or adapter.
- Setting of measuring instrument(s) :

Detector Function	Video B.W.
Peak	Off

7.6 Peak Power Density(Conduction)

For the requirements, - Applicable - Tested. - Not tested by applicant request.]
 - Not Applicable

For the limits, - Passed - Failed - Not judged

7.7 Spurious Emissions(Conduction)

For the requirements, - Applicable - Tested. - Not tested by applicant request.]
 - Not Applicable

For the limits, - Passed - Failed - Not judged

7.7.1 Worst Point and Measurement Uncertainty

Uncertainty of Measurement Results	9 kHz – 1GHz	<u>+/-1.4</u>	dB(2σ)
	1GHz – 18GHz	<u>+/-1.7</u>	dB(2σ)
	18GHz – 40GHz	<u>+/-2.3</u>	dB(2σ)

Remarks : _____

7.7.2 Test Site and Instruments**7.7.2.1 Test Site**

KITA-KANSAI Testing Center

Test site : SAITO

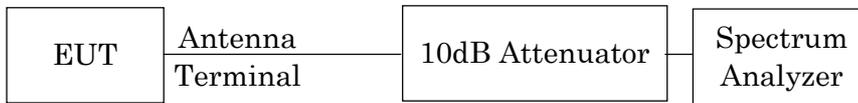
<input type="checkbox"/> - Anechoic chamber (A1)	<input type="checkbox"/> - Measurement room (M1)
<input type="checkbox"/> - Measurement room (M2)	<input type="checkbox"/> - Measurement room (M3)
<input type="checkbox"/> - Shielded room (S1)	<input type="checkbox"/> - Shielded room (S2)
<input type="checkbox"/> - Shielded room (S3)	<input checked="" type="checkbox"/> - Shielded room (S4)

7.7.2.2 Test Instruments

Type	Model	Manufacturer	ID No.	Last Cal.	Interval
Spectrum Analyzer	E4446A	Agilent	A-39	2014/9	1 Year
Attenuator	54A-10	Weinschel	D-28	2014/9	1 Year
RF Cable	SUCOFLEX102	SUHNER	C-52	2014/8	1 Year

7.7.3 Test Method and Test Setup (Diagrammatic illustration)

The test system is shown as follows:



The setting of the spectrum analyzer are shown as follows:

Frequency Range	30 MHz - 25 GHz	Band-Edge
Res. Bandwidth	100 kHz	100 kHz
Video Bandwidth	300 kHz	300 kHz
Sweep Time	AUTO	AUTO
Trace	Maxhold	Maxhold

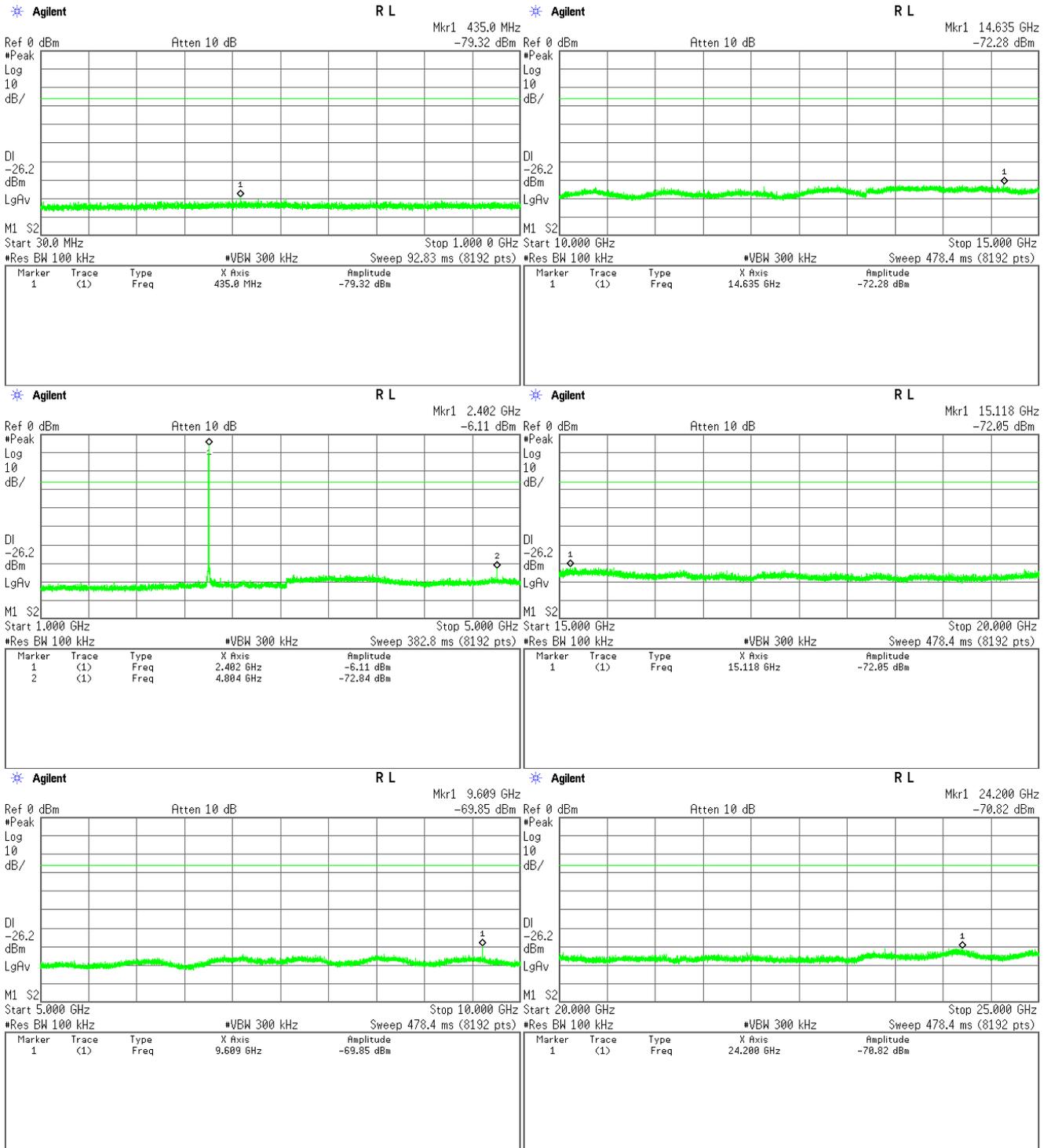
7.7.4 Test Data

Test Date : March 11, 2015

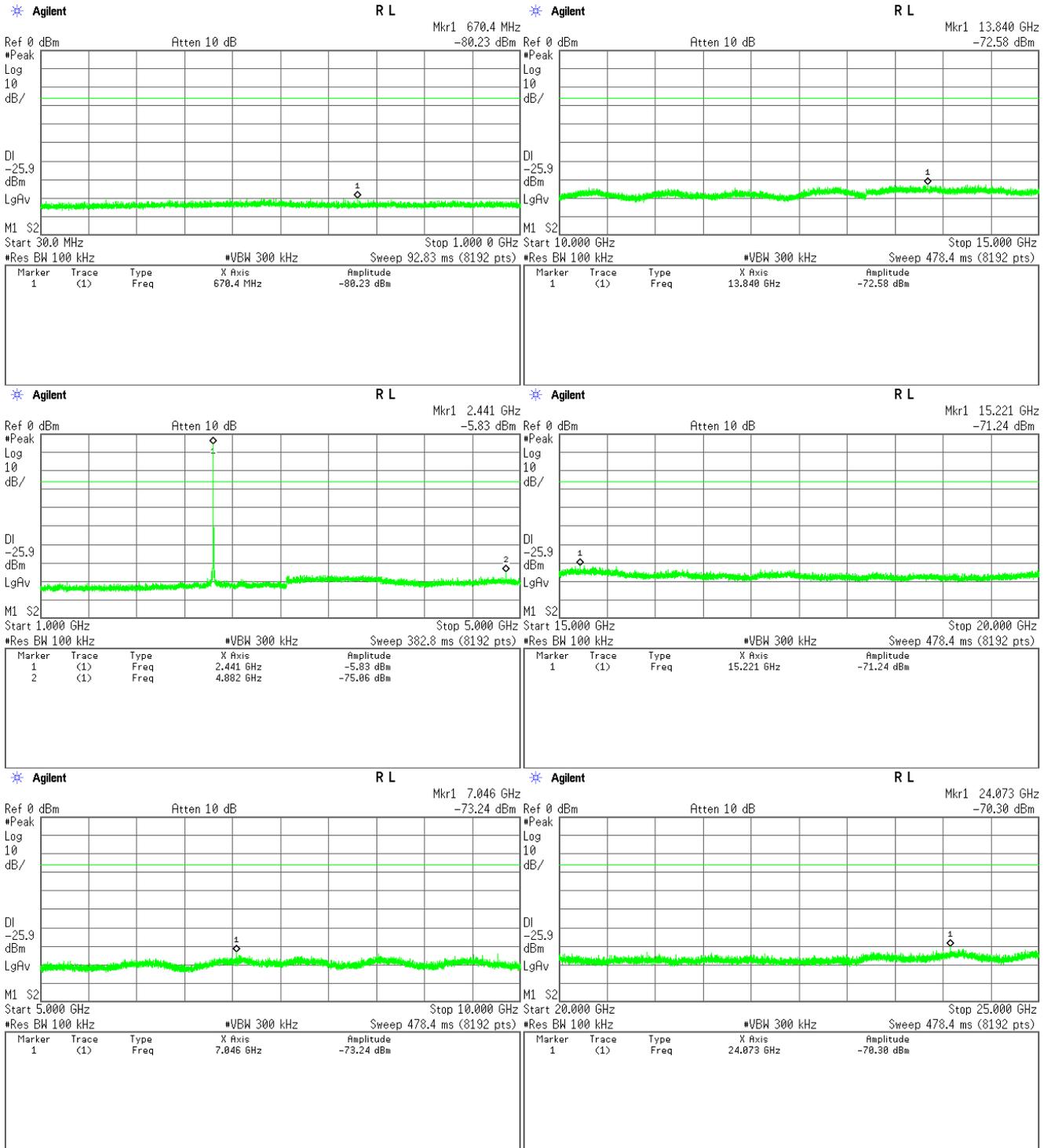
Temp.:22°C, Humi:23%

Mode of EUT : BDR (worst case)

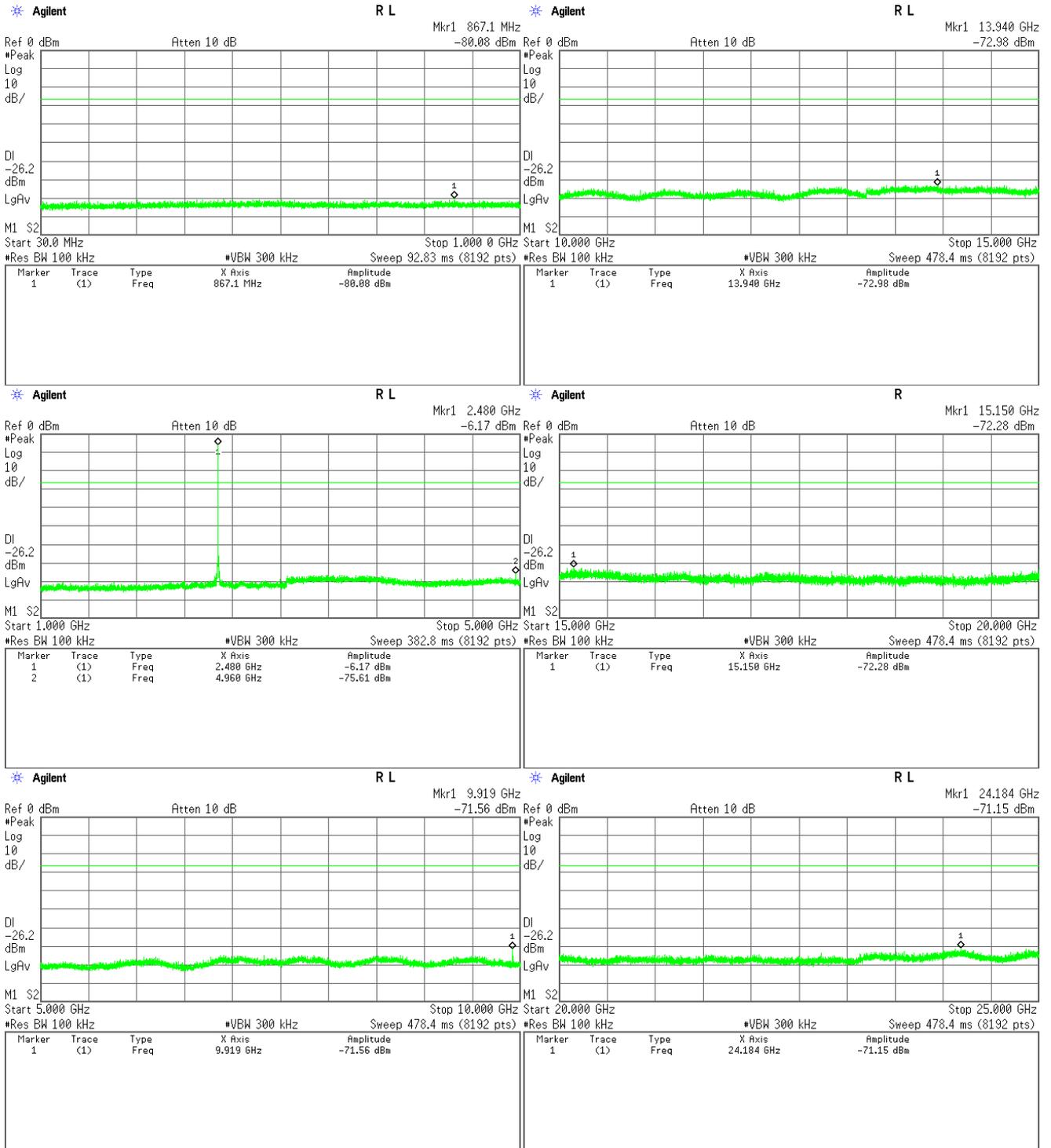
Low Channel



Middle Channel

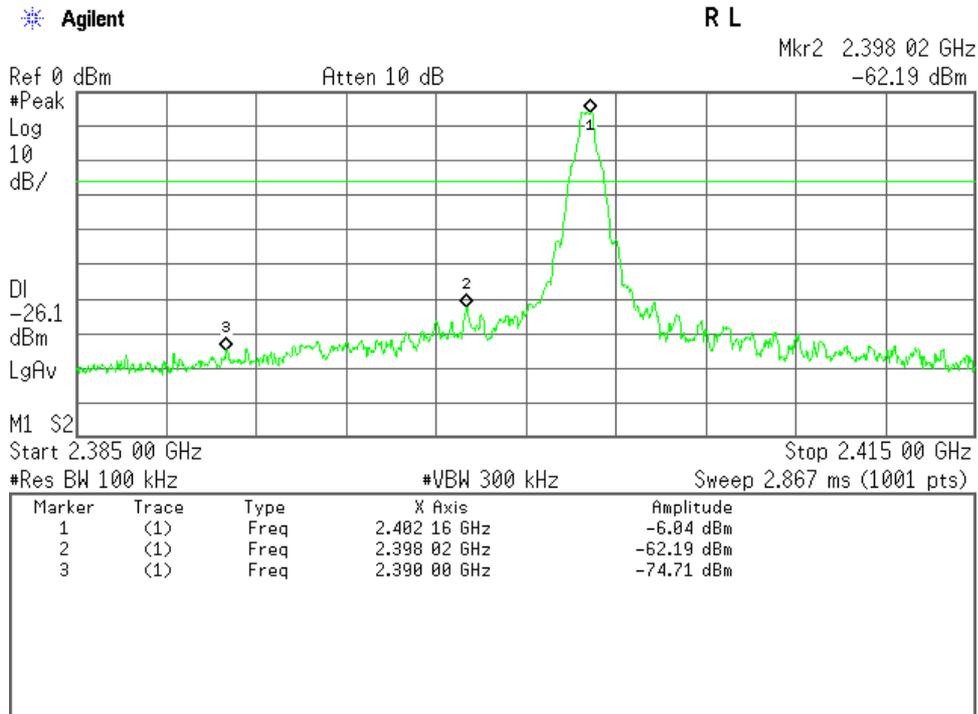


High Channel

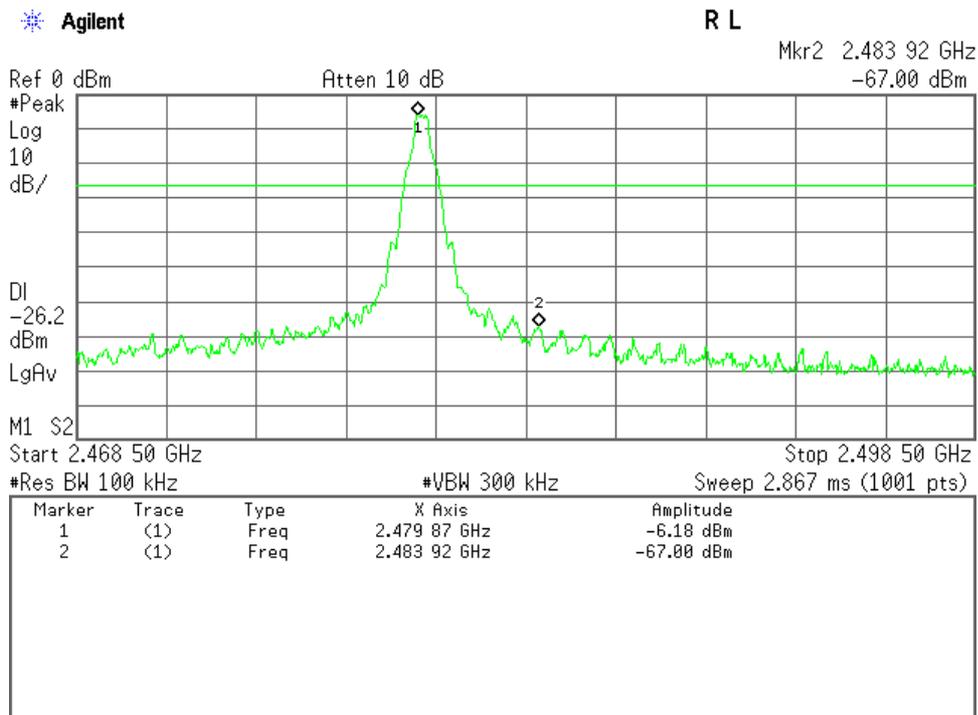


Band-Edge Emission

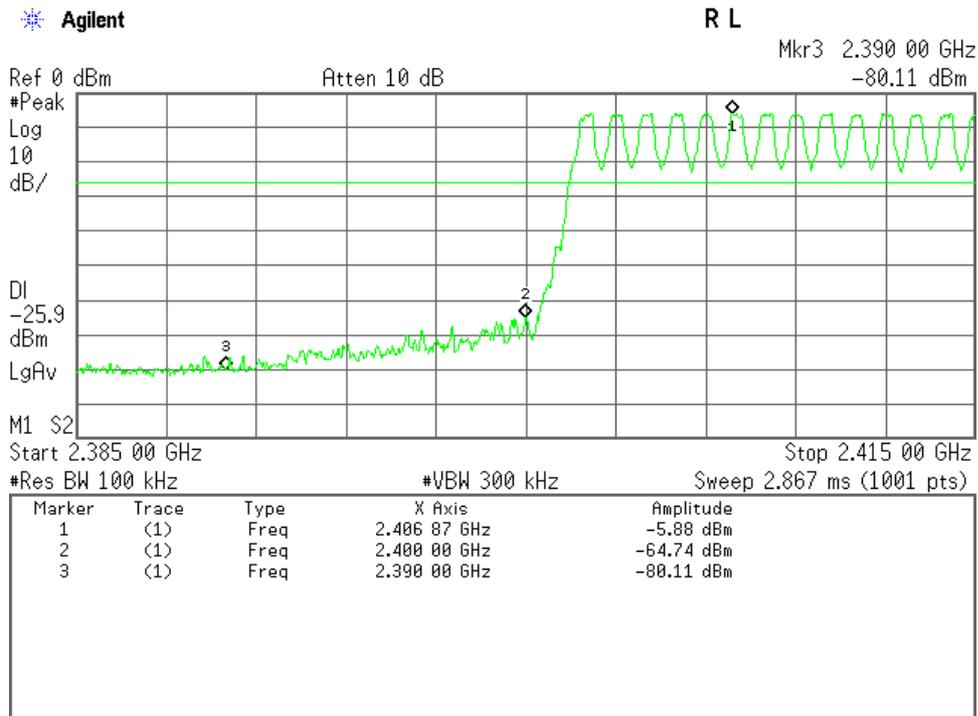
Low Channel(Hopping off), Band-Edge Emission



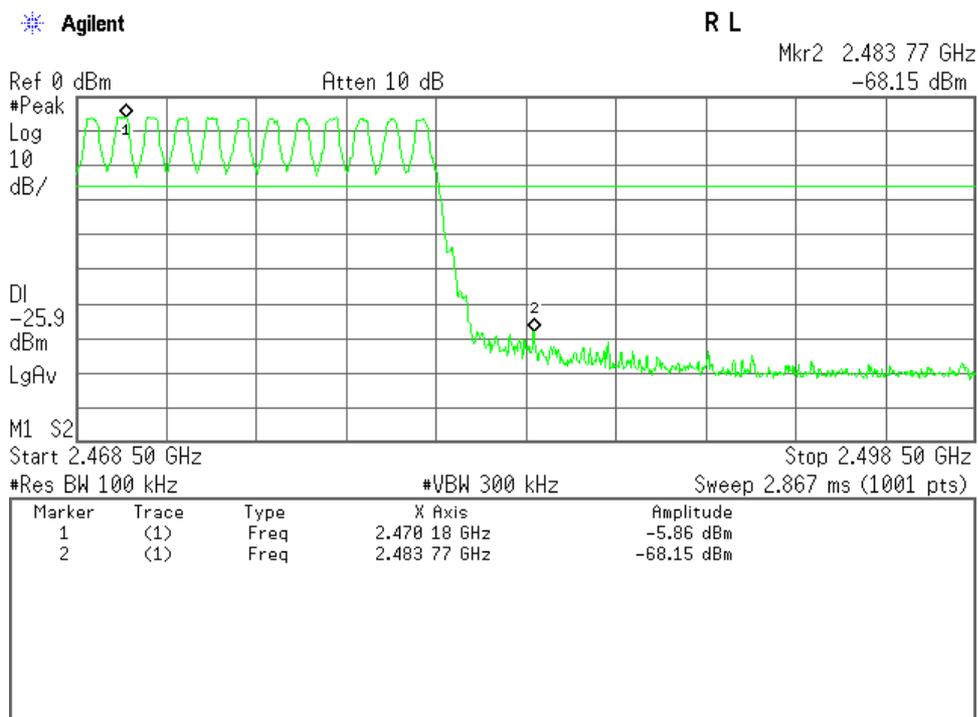
High Channel(Hopping off), Band-Edge Emission



Low Channel(Hopping on), Band-Edge Emission



High Channel(Hopping on), Band-Edge Emission



7.8 AC Powerline Conducted Emission

For the requirements, - Applicable - Tested. - Not tested by applicant request.]
 - Not Applicable

For the limits, - Passed - Failed - Not judged

7.8.1 Worst Point and Measurement Uncertainty

Min. Limit Margin (Quasi-Peak) 11.5 dB at 0.55 MHz

Uncertainty of Measurement Results +/-2.6 dB(2σ)

Remarks : _____

7.8.2 Test Site and Instruments

7.8.2.1 Test Site

KITA-KANSAI Testing Center

Test site : SAITO - Anechoic chamber (A1) - Measurement room (M1)
 - Measurement room (M2) - Measurement room (M3)
 - Shielded room (S1) - Shielded room (S2)
 - Shielded room (S3) - Shielded room (S4)

7.8.2.2 Test Instruments

Measurement Room M2					
Type	Model	Manufacturer	ID No.	Last Cal.	Interval
Test Receiver	ESU 26	Rohde & Schwarz	A-6	2014/5	1 Year
AMN (main)	KNW-407FR	Kyoritsu	D-103	2014/10	1 Year
RF Cable	RG223/U	SUHNER	H-34	2014/6	1 Year

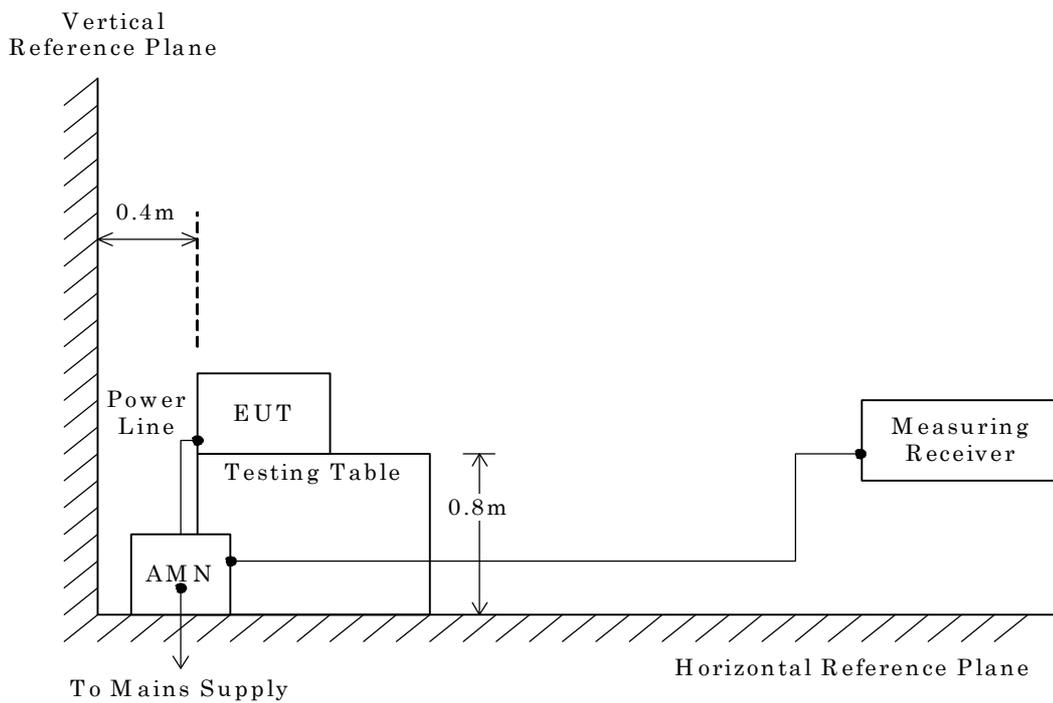
7.8.3 Test Method and Test Setup (Diagrammatic illustration)

The preliminary tests were performed using the scan mode of test receiver or spectrum analyzer to observe the emissions characteristics of the EUT.

The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions.

This configurations was used for final tests.

– Side View –



NOTE

AMN : Artificial Mains Network

7.8.4 Test Data

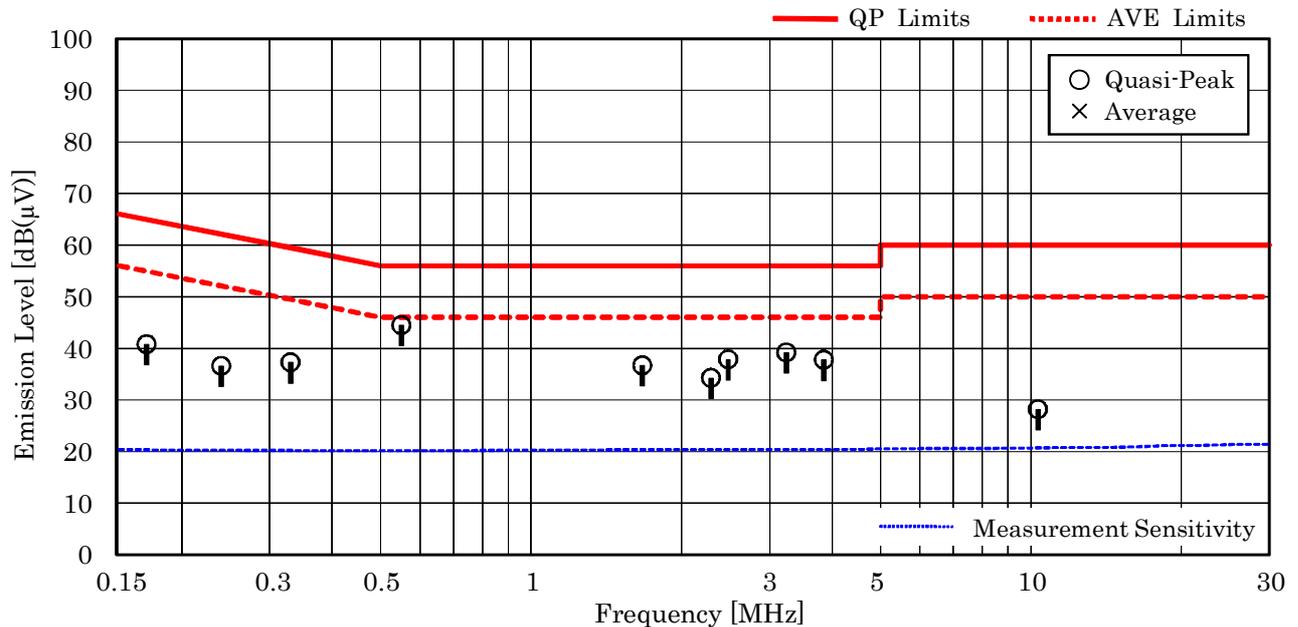
Mode of EUT : All modes have been investigated and the worst case mode for channel (39ch: 2441MHz) has been listed.

Test voltage : 120VAC 60Hz

Test Date: March 23, 2015
Temp.: 23 °C, Humi.: 30 %

Measured phase : L1

Frequency [MHz]	Corr. Factor [dB]	Meter Readings [dB(μV)]		Limits [dB(μV)]		Results [dB(μV)]		Margin [dB]		Remarks
		QP	AVE	QP	AVE	QP	AVE	QP	AVE	
0.170	10.3	30.5	--	65.0	55.0	40.8	--	+24.2	--	-
0.240	10.2	26.4	--	62.1	52.1	36.6	--	+25.5	--	-
0.330	10.2	27.1	--	59.5	49.5	37.3	--	+22.2	--	-
0.550	10.2	34.3	--	56.0	46.0	44.5	--	+11.5	--	-
1.670	10.3	26.4	--	56.0	46.0	36.7	--	+19.3	--	-
2.290	10.4	23.9	--	56.0	46.0	34.3	--	+21.7	--	-
2.480	10.4	27.5	--	56.0	46.0	37.9	--	+18.1	--	-
3.240	10.4	28.8	--	56.0	46.0	39.2	--	+16.8	--	-
3.850	10.4	27.4	--	56.0	46.0	37.8	--	+18.2	--	-
10.330	10.7	17.5	--	60.0	50.0	28.2	--	+31.8	--	-



NOTES

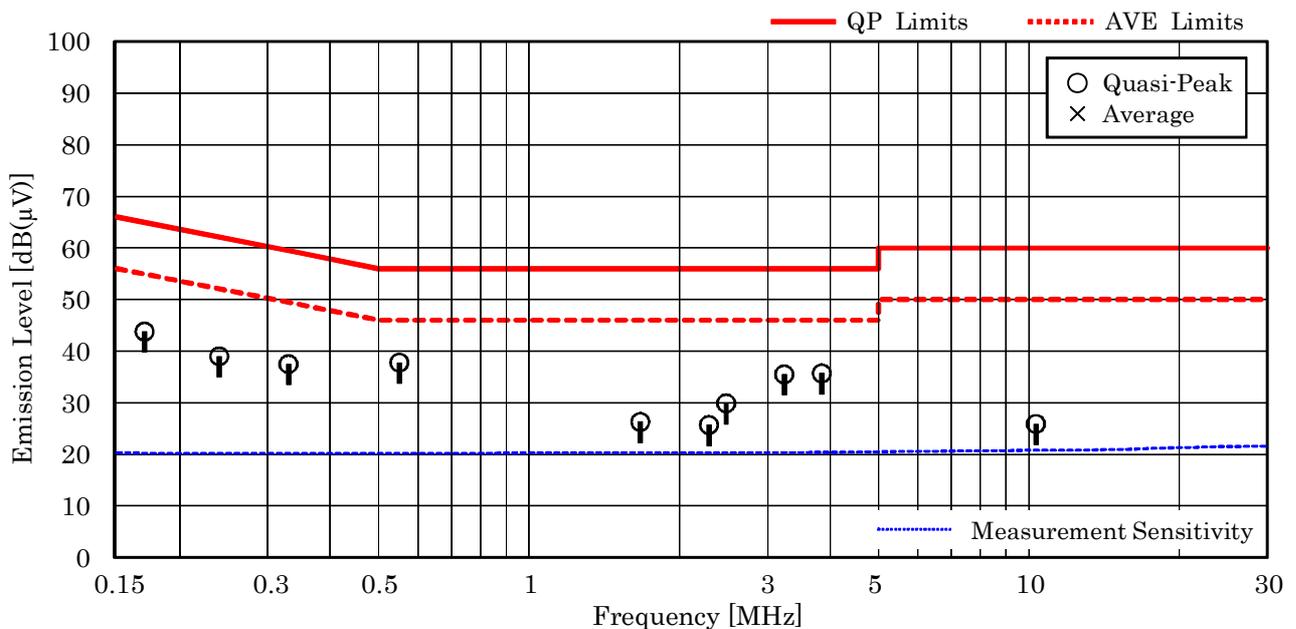
1. The spectrum was checked from 0.15 MHz to 30 MHz.
2. The correction factor includes the AMN insertion loss and the cable loss.
3. The symbol of "<" means "or less".
4. The symbol of ">" means "more than".
5. The symbol of "--" means "not applicable".
6. Calculated result at 0.550 MHz, as the worst point shown on underline:
 Correction Factor + Meter Reading (QP) = 10.2 + 34.3 = 44.5 dB(μV)
7. QP : Quasi-Peak Detector / AVE : Average Detector
8. Test receiver setting(s) : CISPR QP 9 kHz / Average 9 kHz

Test voltage : 120VAC 60Hz

Test Date: March 23, 2015
Temp.: 23 °C, Humi.: 30 %

Measured phase : L2

Frequency [MHz]	Corr. Factor [dB]	Meter Readings [dB(μV)]		Limits [dB(μV)]		Results [dB(μV)]		Margin [dB]		Remarks
		QP	AVE	QP	AVE	QP	AVE	QP	AVE	
0.170	10.3	33.5	--	65.0	55.0	43.8	--	+21.2	--	-
0.240	10.2	28.8	--	62.1	52.1	39.0	--	+23.1	--	-
0.330	10.2	27.3	--	59.5	49.5	37.5	--	+22.0	--	-
0.550	10.2	27.6	--	56.0	46.0	37.8	--	+18.2	--	-
1.670	10.3	16.0	--	56.0	46.0	26.3	--	+29.7	--	-
2.290	10.4	15.3	--	56.0	46.0	25.7	--	+30.3	--	-
2.480	10.4	19.5	--	56.0	46.0	29.9	--	+26.1	--	-
3.240	10.4	25.1	--	56.0	46.0	35.5	--	+20.5	--	-
3.850	10.4	25.3	--	56.0	46.0	35.7	--	+20.3	--	-
10.330	10.8	15.1	--	60.0	50.0	25.9	--	+34.1	--	-



NOTES

1. The spectrum was checked from 0.15 MHz to 30 MHz.
2. The correction factor includes the AMN insertion loss and the cable loss.
3. The symbol of "<" means "or less".
4. The symbol of ">" means "more than".
5. The symbol of "--" means "not applicable".
6. Calculated result at 0.550 MHz, as the worst point shown on underline:
 Correction Factor + Meter Reading (QP) = 10.2 + 27.6 = 37.8 dB(μV)
7. QP : Quasi-Peak Detector / AVE : Average Detector
8. Test receiver setting(s) : CISPR QP 9 kHz / Average 9 kHz

7.9 Radiated Emission

The requirements are - Applicable - Tested. - Not tested by applicant request.]
 - Not Applicable

- Passed - Failed - Not judged

7.9.1 Worst Point and Measurement Uncertainty

Min. Limit Margin (Quasi-Peak) 15.2 dB at 45.65 MHz

Uncertainty of Measurement Results	9 kHz – 30 MHz	<u>+/-3.0</u> dB(2 σ)
	30 MHz – 300 MHz	<u>+/-3.8</u> dB(2 σ)
	300 MHz – 1000 MHz	<u>+/-4.8</u> dB(2 σ)
	1 GHz – 6 GHz	<u>+/-4.7</u> dB(2 σ)
	6 GHz – 18 GHz	<u>+/-4.6</u> dB(2 σ)
	18 GHz – 40 GHz	<u>+/-5.5</u> dB(2 σ)

Remarks : X axis Position

7.9.2 Test Site and Instruments

7.9.2.1 Test Site

KITA-KANSAI Testing Center SAITO EMC Branch

- Anechoic chamber A1

- Anechoic chamber A2

7.9.2.2 Test Instruments

Type	Model	Manufacturer	ID No.	Last Cal.	Interval
Test Receiver	ESU 26	Rohde & Schwarz	A-6	2014/5	1 Year
Loop Antenna	HFH2-Z2	Rohde & Schwarz	C-2	2014/8	1 Year
RF Cable	RG213/U	SUHNER	H-28	2014/8	1 Year
Biconical Antenna	VHA9103/BBA9106	Schwarzbeck	C-30	2014/5	1 Year
Log-periodic Antenna	UHALP9108-A1	Schwarzbeck	C-31	2014/5	1 Year
RF Cable	S 10162 B-11 etc.	SUHNER	H-4	2014/4	1 Year
Site Attenuation	--	----	H-15	2015/1	1 Year
Pre-Amplifier	TPA0118-36	TOYO	A-37	2014/5	1 Year
Pre-Amplifier	RP1826G-45H	EMCS	A-53	2014/7	1 Year
Horn Antenna	91888-2	EATON	C-41-1	2014/7	1 Year
Horn Antenna	91889-2	EATON	C-41-2	2014/7	1 Year
Horn Antenna	3160-04	EMCO	C-55	2014/6	1 Year
Horn Antenna	3160-05	EMCO	C-56	2014/6	1 Year
Horn Antenna	3160-06	EMCO	C-57	2014/6	1 Year
Horn Antenna	3160-07	EMCO	C-58	2014/6	1 Year
Horn Antenna	3160-08	EMCO	C-59	2014/6	1 Year
Horn Antenna	3160-09	EMCO	C-48	2014/7	1 Year
Attenuator	54A-10	Weinschel	D-29	2014/9	1 Year
Attenuator	2-10	Weinschel	D-79	2014/11	1 Year
Band Rejection Filter	BRM50701	MICRO-TRONICS	D-93	2015/2	1 Year
RF Cable	SUCOFLEX104	SUHNER	C-66	2015/1	1 Year
RF Cable	SUCOFLEX104	SUHNER	C-67	2015/1	1 Year
RF Cable	SUCOFLEX102EA	SUHNER	C-69	2015/2	1 Year
SVSWR	--	----	H-19	2015/2	1 Year
Pre-Amplifier	310N	SONOMA	A-17	2014/4	1 Year

7.9.3 Test Method and Test Setup (Diagrammatic illustration)

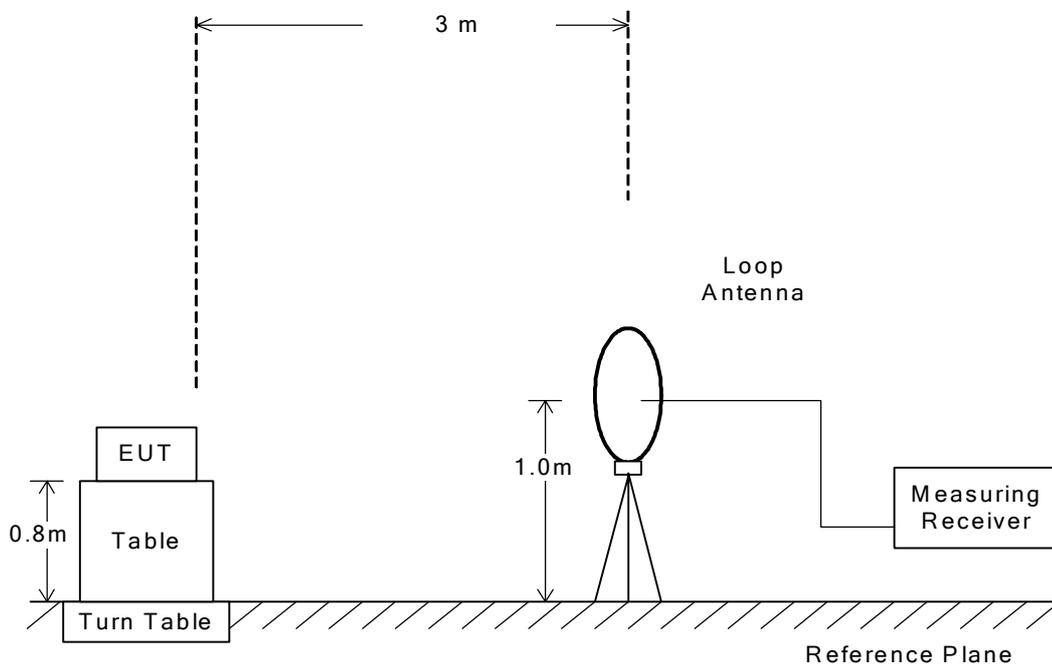
7.9.3.1 Radiated Emission 9 kHz – 30 MHz

The preliminary tests were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.

The EUT configuration(in X, Y and Z axis), cable configuration and mode of operation were determined for producing the maximum level of emissions.

This configurations was used for the final tests.

– Side View –



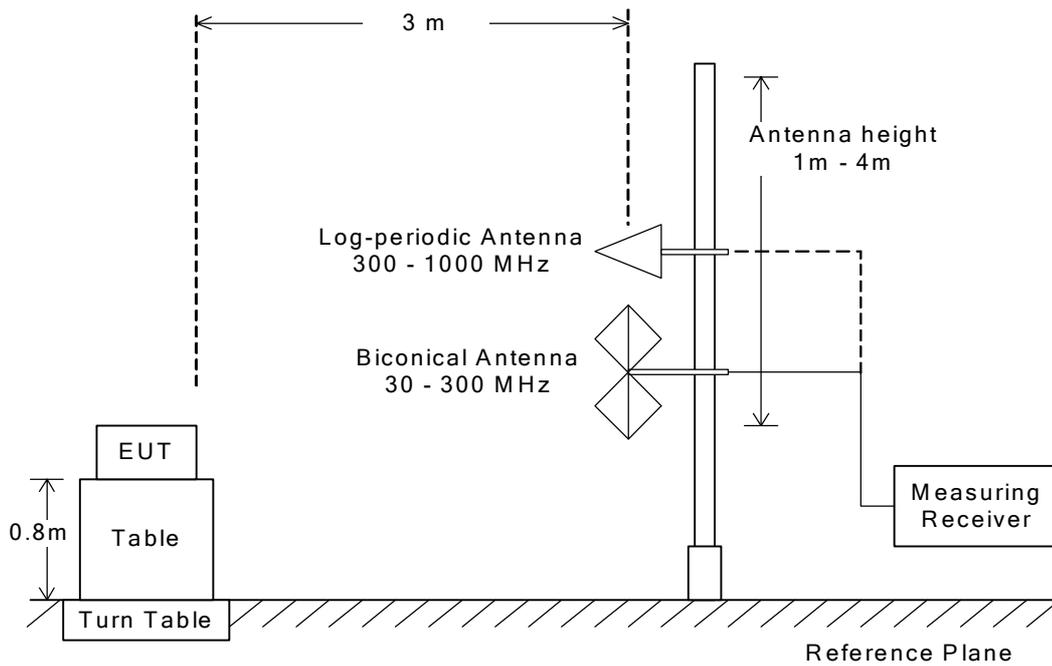
7.9.3.2 Radiated Emission 30 MHz – 1000 MHz

The preliminary tests were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.

The EUT configuration(in X, Y and Z axis), cable configuration and mode of operation were determined for producing the maximum level of emissions.

This configurations was used for the final tests.

– Side View –



7.9.3.3 Radiated Emission above 1 GHz

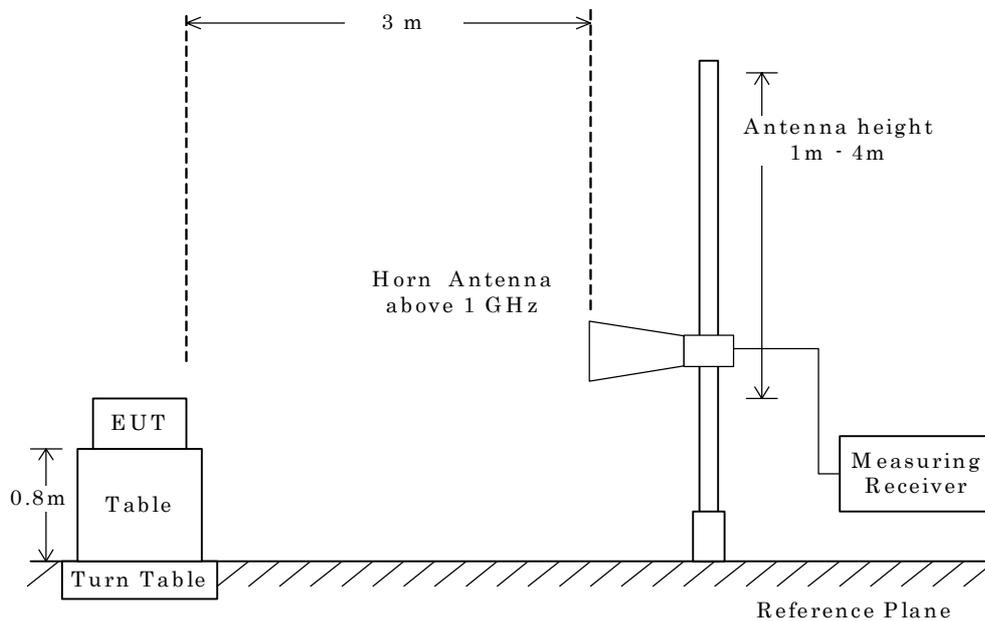
The preliminary tests were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT.
 The EUT configuration(in X, Y and Z axis), cable configuration and mode of operation were determined for producing the maximum level of emissions.
 This configurations was used for the final tests.

The setting of the measuring instruments are shown as follows:

Type	Peak	Average
Detector Function	Peak	Peak
Res. Bandwidth	1 MHz	1 MHz
Video Bandwidth	3 MHz	$\geq 1/T * 1$)
Video Filtering	Linear Voltage	Linear Voltage
Sweep Time	AUTO	AUTO
Trace	Max Hold	Max Hold

Note: 1. T: Minimum transmission duration

– Side View –



NOTE

The antenna height is scanned depending on the EUT's size and mounting height.

7.9.4 Test Data

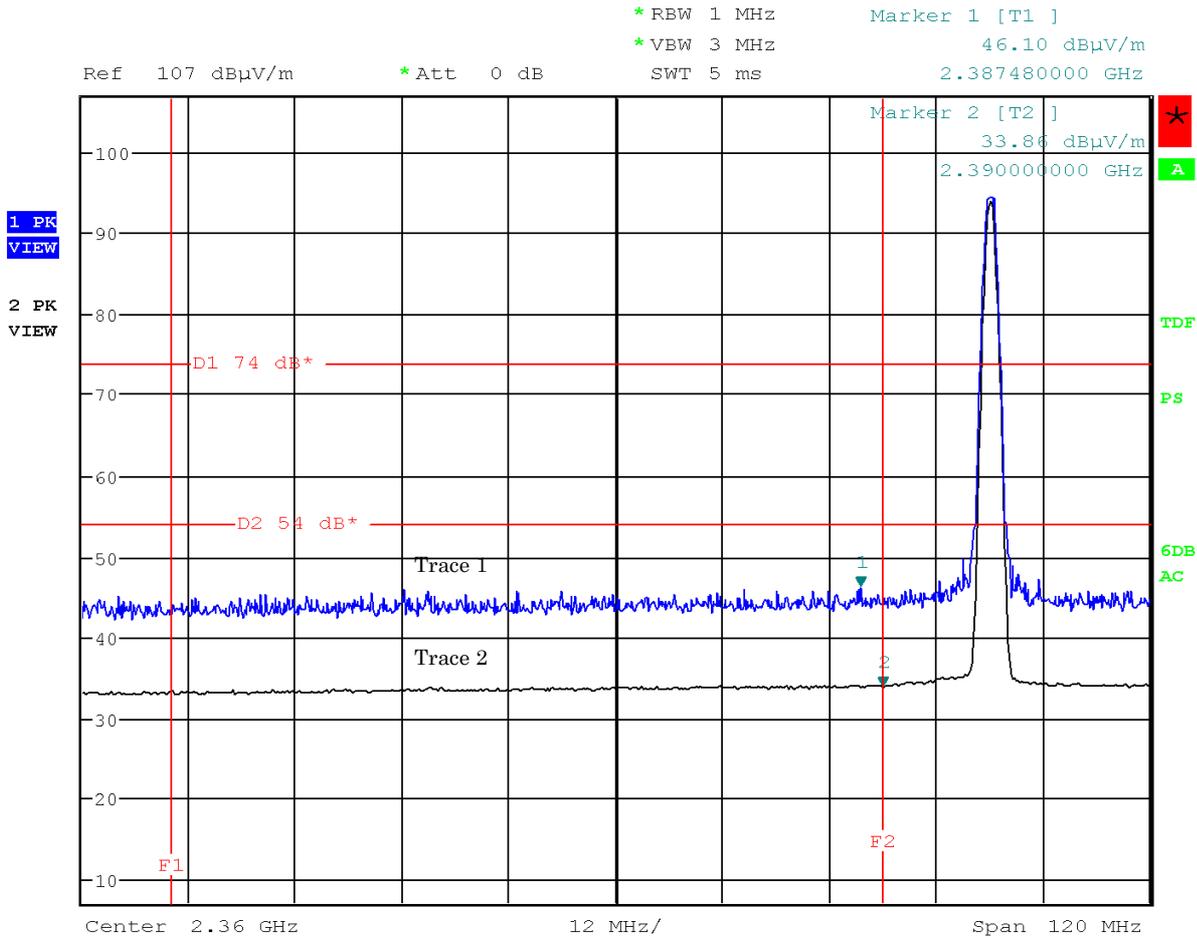
7.9.4.1 Band-edge Compliance

Test Date : March 13, 2015

Temp.:22°C, Humi:32%

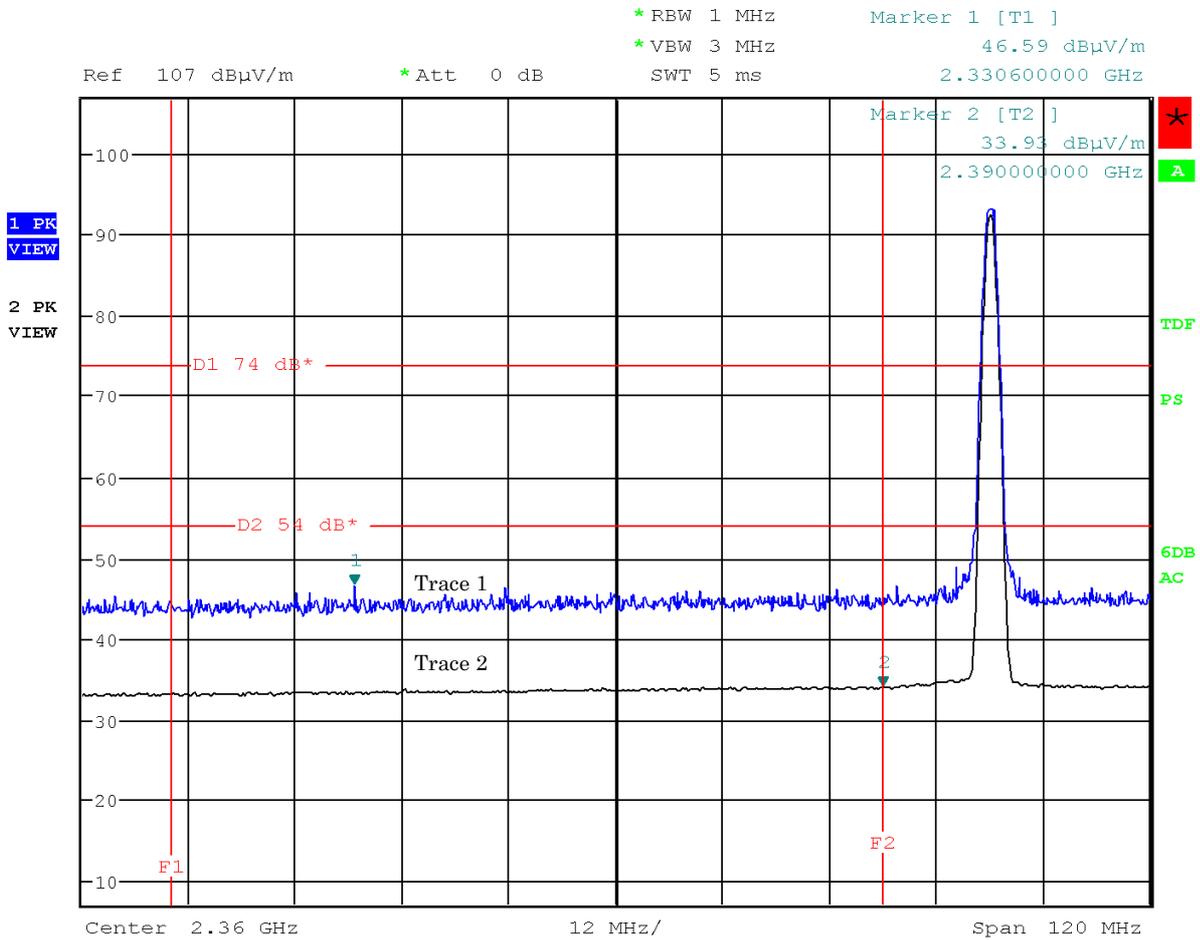
Mode of EUT : BDR, Hopping off (0ch: 2402 MHz) (worst case)

Antenna Polarization : Horizontal



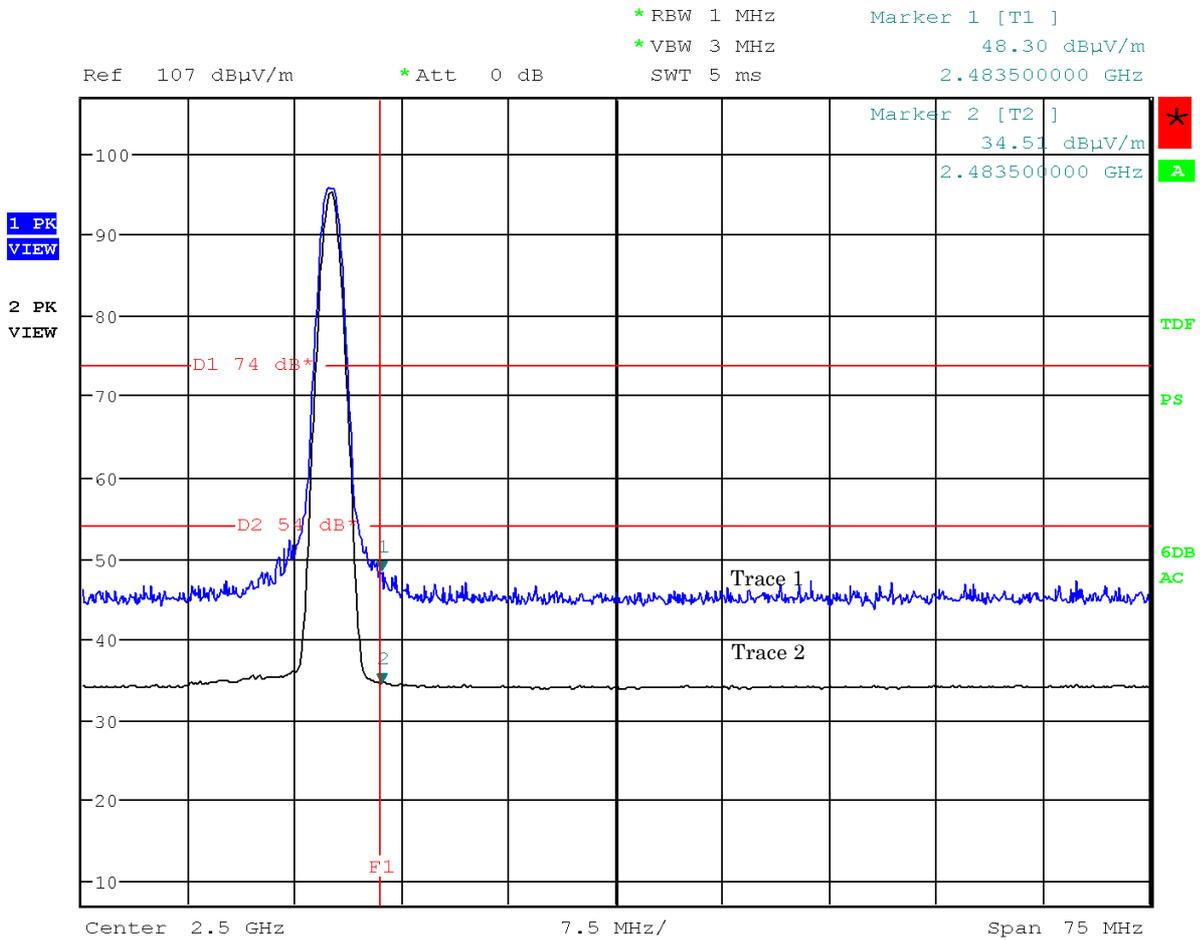
Note: The trace 1 is Peak . The trace 2 is Average.

Mode of EUT : BDR, Hopping off (0ch: 2402 MHz) (worst case)
 Antenna Polarization : Vertical



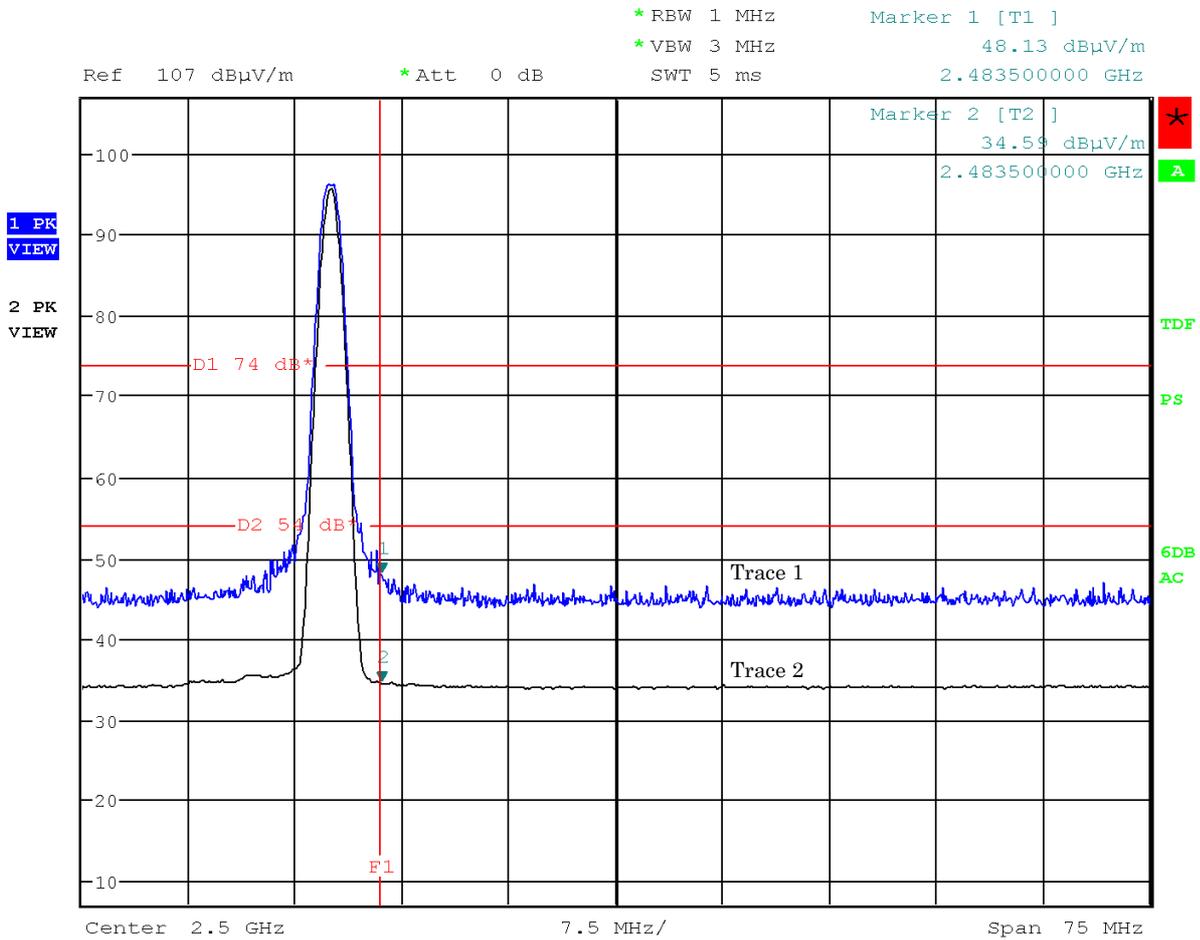
Note: The trace 1 is Peak . The trace 2 is Average.

Mode of EUT : BDR, Hopping off (78ch: 2480 MHz) (worst case)
 Antenna Polarization : Horizontal



Note: The trace 1 is Peak . The trace 2 is Average.

Mode of EUT : BDR, Hopping off (78ch: 2480 MHz) (worst case)
 Antenna Polarization : Vertical



Note: The trace 1 is Peak . The trace 2 is Average.

7.9.4.2 Other Spurious Emission (9kHz – 30MHz)

Test Date : March 23, 2015

Temp.:20°C, Humi:34%

Mode of EUT : All modes have been investigated and the worst case mode has been listed.

Results : No spurious emissions in the range 20dB below the limit.

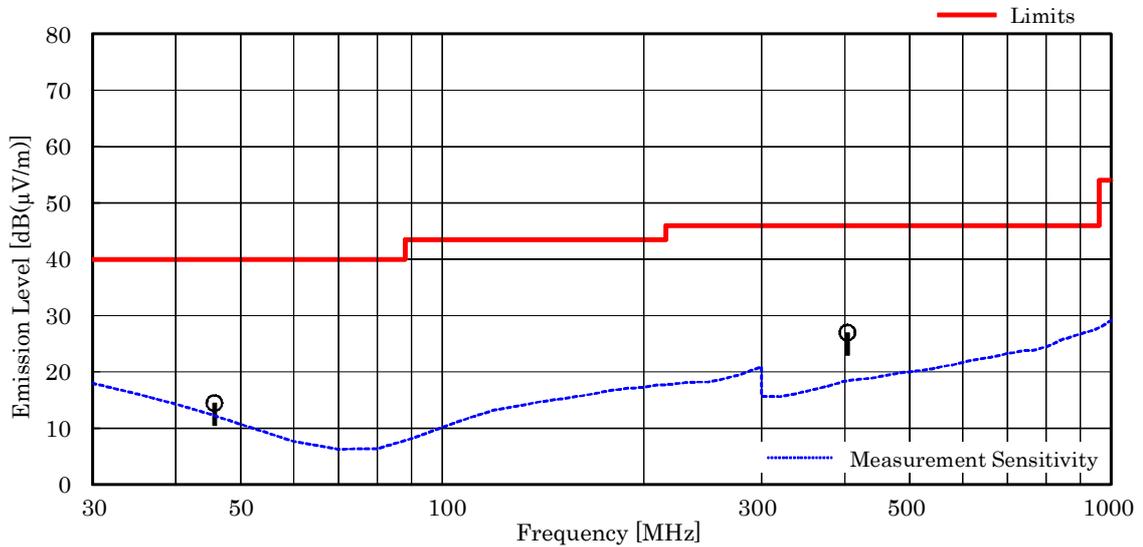
7.9.4.3 Other Spurious Emission (30MHz – 1000MHz)

Mode of EUT : All modes have been investigated and the worst case mode has been listed.

Test Date: March 23, 2015
 Temp.: 20 °C, Humi: 34 %

Antenna pole : Horizontal

Frequency [MHz]	Antenna Factor [dB(1/m)]	Corr. Factor [dB]	Meter Readings [dB(μV)]	Limits [dB(μV/m)]	Results [dB(μV/m)]	Margin [dB]	Remarks
45.65	12.8	-27.5	29.2	40.0	14.5	+25.5	-
403.35	16.4	-25.0	35.6	46.0	27.0	+19.0	-



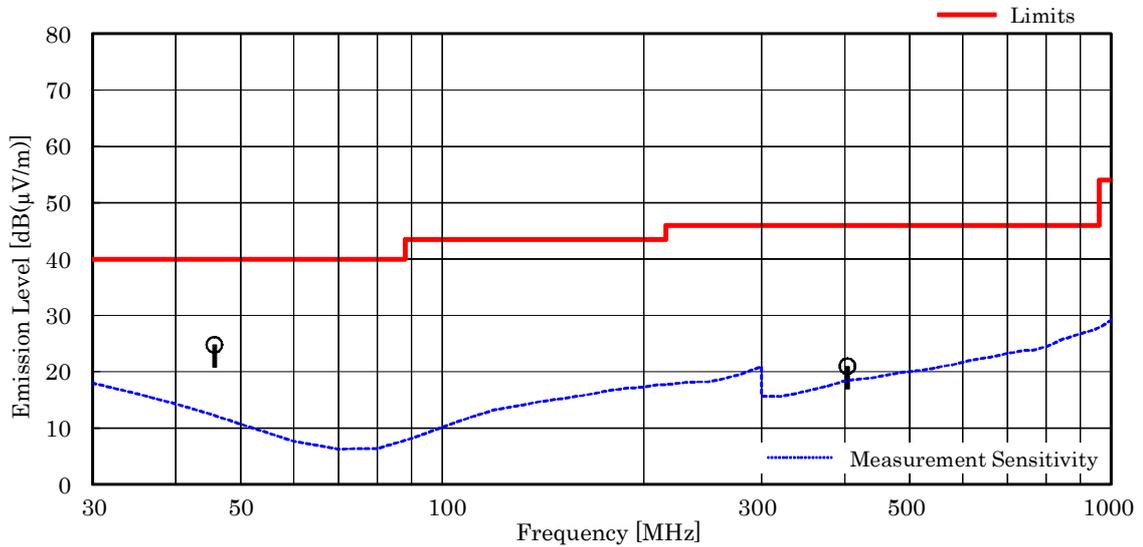
NOTES

1. Test Distance : 3 m
2. The spectrum was checked from 30 MHz to 1000 MHz.
3. The correction factor is composed of cable loss, pad attenuation and/or amplifier gain.
4. The symbol of “<” means “or less”.
5. The symbol of “>” means “more than”.
6. Calculated result at 403.35 MHz, as the worst point shown on underline:
 Antenna Factor + Coorection Factor + Meter Reading = 16.4 + (-25.0) + 35.6 = 27.0 dB(μV/m)
 Antenna Height : 1.00 m, Turntable Angle : 195 °
7. Test receiver setting(s) : CISPR QP 120 kHz (QP : Quasi-Peak)

Test Date: March 23, 2015
Temp.: 20 °C, Humi: 34 %

Antenna pole : Vertical

Frequency [MHz]	Antenna Factor [dB(1/m)]	Corr. Factor [dB]	Meter Readings [dB(μV)]	Limits [dB(μV/m)]	Results [dB(μV/m)]	Margin [dB]	Remarks
<u>45.65</u>	12.8	-27.5	39.5	40.0	24.8	+15.2	-
403.35	16.4	-25.0	29.6	46.0	21.0	+25.0	-



NOTES

1. Test Distance : 3 m
2. The spectrum was checked from 30 MHz to 1000 MHz.
3. The correction factor is composed of cable loss, pad attenuation and/or amplifier gain.
4. The symbol of "<" means "or less".
5. The symbol of ">" means "more than".
6. Calculated result at 45.65 MHz, as the worst point shown on underline:
Antenna Factor + Coorection Factor + Meter Reading = 12.8 + (-27.5) + 39.5 = 24.8 dB(μV/m)
Antenna Height : 1.00 m, Turntable Angle : 172 °
7. Test receiver setting(s) : CISPR QP 120 kHz (QP : Quasi-Peak)

7.9.4.4 Other Spurious Emission (Above 1000MHz)

Mode of EUT : BDR (worst case)

Test Date: March 18, 2015
Temp.: 21 °C, Humi: 60 %

Frequency [MHz]	Antenna Factor [dB(1/m)]	Corr. Factor [dB]	Meter Readings [dB(μV)]				Limits [dB(μV/m)]		Results [dB(μV/m)]		Margin [dB]	Remarks
			Horizontal		Vertical		PK	AVE	PK	AVE		
			PK	AVE	PK	AVE	PK	AVE	PK	AVE		
Test condition : Tx Low Ch												
4804.0	27.3	-16.1	< 38.0	< 28.0	< 38.0	< 28.0	74.0	54.0	< 49.2	< 39.2	> +14.8	
12010.0	33.7	-25.8	< 38.0	< 28.0	< 38.0	< 28.0	74.0	54.0	< 45.9	< 35.9	> +18.1	
19216.0	40.5	-42.9	< 50.0	< 40.0	< 50.0	< 40.0	74.0	54.0	< 47.6	< 37.6	> +16.4	
Test condition : TX Middle Ch												
4882.0	27.3	-16.0	< 38.0	< 28.0	< 38.0	< 28.0	74.0	54.0	< 49.3	< 39.3	> +14.7	
7323.0	29.8	-16.8	< 38.0	< 28.0	< 38.0	< 28.0	74.0	54.0	< 51.0	< 41.0	> +13.0	
12205.0	33.5	-26.3	< 38.0	< 28.0	< 38.0	< 28.0	74.0	54.0	< 45.2	< 35.2	> +18.8	
19528.0	40.4	-42.8	< 50.0	< 40.0	< 50.0	< 40.0	74.0	54.0	< 47.6	< 37.6	> +16.4	
Test condition : TX High Ch												
4960.0	27.3	-16.0	< 38.0	< 28.0	< 38.0	< 28.0	74.0	54.0	< 49.3	< 39.3	> +14.7	
7440.0	29.8	-17.0	< 38.0	< 28.0	< 38.0	< 28.0	74.0	54.0	< 50.8	< 40.8	> +13.2	
12400.0	33.5	-26.8	< 38.0	< 28.0	< 38.0	< 28.0	74.0	54.0	< 44.7	< 34.7	> +19.3	
19840.0	40.4	-43.0	< 50.0	< 40.0	< 50.0	< 40.0	74.0	54.0	< 47.4	< 37.4	> +16.6	
22320.0	40.6	-43.4	< 50.0	< 40.0	< 50.0	< 40.0	74.0	54.0	< 47.2	< 37.2	> +16.8	

Calculated result at 7323.0 MHz, as the worst point shown on underline:

Antenna Factor	=	29.8 dB(1/m)
Corr. Factor	=	-16.8 dB
+) Meter Reading	=	<28.0 dB(μV)
Result	=	<41.0 dB(μV/m)

Minimum Margin: 54.0 - <41.0 =>13.0 (dB)

NOTES

1. Test Distance : 3 m
2. The spectrum was checked from 1 GHz to 25 GHz (10th harmonic of the highest fundamental frequency).
3. The correction factor is shown as follows:
 - Corr. Factor [dB] = Cable Loss + 20dB Pad Att. - Pre-Amp. Gain [dB] (1.0 - 7.6GHz)
 - Corr. Factor [dB] = Cable Loss + 10dB Pad Att. - Pre-Amp. Gain [dB] (7.6 - 18.0GHz)
 - Corr. Factor [dB] = Cable Loss - Pre-Amp. Gain [dB] (over 18 GHz)
4. The symbol of "<" means "or less".
5. The symbol of ">" means "more than".
6. PK : Peak / AVE : Average

Mode of EUT : BDR (worst case)

Test Date: March 18, 2015

Temp: 21 °C, Humi: 60 %

Frequency [MHz]	Antenna Factor [dB(1/m)]	Corr. Factor [dB]	Meter Readings [dB(μV)]				Limits [dB(μV/m)]		Results [dB(μV/m)]		Margin [dB]	Remarks
			Horizontal		Vertical		PK	AVE	PK	AVE		
Test condition : RX Middle Ch												
2441.0	21.5	-18.8	< 38.0	< 28.0	< 38.0	< 28.0	74.0	54.0	< 40.7	< 30.7	> +23.3	
4882.0	27.3	-16.3	< 38.0	< 28.0	< 38.0	< 28.0	74.0	54.0	< 49.0	< 39.0	> +15.0	
7323.0	29.8	-17.1	< 38.0	< 28.0	< 38.0	< 28.0	74.0	54.0	< 50.7	< 40.7	> +13.3	

Calculated result at 7323.0 MHz, as the worst point shown on underline:

Antenna Factor	=	29.8 dB(1/m)
Corr. Factor	=	-17.1 dB
+) Meter Reading	=	<28.0 dB(μV)
Result	=	<40.7 dB(μV/m)

Minimum Margin: 54.0 - <40.7 = >13.3 (dB)

NOTES

1. Test Distance : 3 m
2. The spectrum was checked from 1 GHz to 7.5 GHz .
3. The correction factor is shown as follows:
Corr. Factor [dB] = Cable Loss + 20dB Pad Att. - Pre-Amp. Gain [dB] (1.0 - 7.6GHz)
4. The symbol of "<" means "or less".
5. The symbol of ">" means "more than".
6. PK : Peak / AVE : Average