



EMI TEST REPORT

Test Report No. : 25IE0085-HO-1

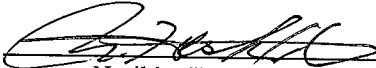
Applicant : CANON INC.
Type of Equipment : Bluetooth Unit
Model No. : BU-20
Test standard : FCC Part 15 Subpart C
Section 15.207, Section 15.247: 2005
FCC ID : AZDK30259
Test Result : Complied

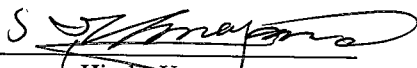
1. This test report shall not be reproduced in full or partial, without the written approval of UL Apex Co., Ltd.
2. The results in this report apply only to the sample tested.
3. This equipment is in compliance with the above regulation. We hereby certify that the data contain a true representation of the EMC profile.
4. The test results in this report are traceable to the national or international standards.

Date of test: May 21 to 31, 2005

Tested by:


Makoto Kosaka
EMC Service


Norihisa Hashimoto
EMC Service


Hiroka Uneyama
EMC Service

Approved by :


Naoki Sakamoto
Group Leader of
EMC Service

UL Apex Co., Ltd.

Head Office EMC Lab.

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SECTION 1: Client information

Company Name : CANON INC.
Address : 451, Tsukagoshi 3-chome, Saiwai-ku, Kawasaki-shi, Kanagawa
212-8530, Japan
Telephone Number : +81-44-542-0164
Facsimile Number : +81-44-542-7524
Contact Person : Keiji Kawata

SECTION 2: Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of Equipment : Bluetooth Unit
Model No. : BU-20
Serial No. : 0000855bb370(Spurious Emission(Radiated) and Conducted emission)
0000855bb2cc(Other tests)
Rating : DC5V
Country of Manufacture : Japan
Receipt Date of Sample : May 13, 2005
Condition of EUT : Production prototype
(Not for Sale: This sample is equivalent to mass-produced items.)

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2.2 Product Description

Model No: BU-20 (referred to as the EUT in this report) is the Bluetooth Unit.

	Bluetooth
Clock frequency in the system	16MHz

Equipment Type	Transceiver
Frequency band	Lower limit
	Upper limit
Bandwidth & Channel spacing	79MHz(Hopping On), 1MHz(Hopping Off) & 1MHz
Type of Modulation	FHSS
Antenna Type	PWB Pattern Antenna
Antenna Connector Type	Soldering
Antenna Gain	-1.54 dBi max
Mode of Operation	Duplex
ITU code	F1D
Power Supply	DC5.0V

FCC 15.31 (e)

This EUT provides stable voltage(DC5.0V) from Host, and it is constantly converted into and provided with DC3.3V for the Operational voltage within RF Module regardless of input voltage. Therefore, this EUT complies with the requirement.

FCC Part 15.203 Antenna requirement

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT. Therefore, the equipment complies with the antenna requirement of Section 15.203.

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SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification : FCC Part15 Subpart C : 2005

Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators
Section 15.207 Conducted limits : 2005
Section 15.247 Operation within the bands 902-928MHz,
2400-2483.5MHz, and 5725-5850MHz : 2005

3.2 Procedures and results

[FHSS]

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst Margin*0)	Results
1	Conducted emission	ANSI C63.4:2003 7. AC powerline conducted emission measurements	Section 15.207 RSS-210 6.6	-	N/A	8.8dB 0.2111MHz, AV, L	Complied
2	Carrier Frequency Separation	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(a)(1) RSS-210 6.2.2 (o)(a)(a1)	Conducted	N/A	*See data.	Complied
3	20dB Bandwidth	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(a)(1) RSS-210 6.2.2 (o)(a)(a1)	Conducted	N/A		Complied
4	Number of Hopping Frequency	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(a)(1)(iii) RSS-210 6.2.2 (o)(ii)	Conducted	N/A		Complied
5	Dwell time	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(a)(1)(iii) RSS-210 6.2.2 (o)(ii)	Conducted	N/A		Complied
6	Maximum Peak Output Power	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(b)(1) RSS-210 6.2.2(o)(iv)	Conducted	N/A		Complied
7	Band Edge Compliance	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(d) RSS-210 6.2.2(o)(e) and 6.3	Conducted	N/A		Complied
8	Spurious Emission	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(d) RSS-210 6.2.2(o)(e) and 6.3	Conducted/ Radiated	N/A	6.7dB 4882MHz Vertical AV	Complied

Note: UL Apex's EMI Work Procedures No.QPM05.

*0) The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

Conducted Emission

The measurement uncertainty (with a 95% confidence level) for this test is $\pm 1.3\text{dB}$.

The data listed in this test report has enough margin, more than the site margin.

Spurious Emission (Radiated)

The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is $\pm 4.5\text{dB}(3\text{m})/\pm 4.7\text{dB}(10\text{m})$.

The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is $\pm 5.2\text{dB}(3\text{m})/\pm 3.8\text{dB}(10\text{m})$.

The measurement uncertainty (with a 95% confidence level) for this test using Horn antenna is $\pm 6.6\text{dB}$.

The data listed in this test report has enough margin, more than the site margin.

Other test except Conducted Emission and Spurious Emission (Radiated)

The measurement uncertainty (with a 95% confidence level) for this test is $\pm 3.0\text{dB}$.

The data listed in this test report has enough margin, more than the site margin.

*These tests were also referred to FCC Public Notice DA 00-705 "Guidance on Measurement for Frequency Hopping Spread Spectrum Systems".

*These tests were performed without any deviations from test procedure except for additions or exclusions.

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3.3 Addition to standards

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst margin	Results
1	99% Occupied Band Width	RSS-210(issue 5): 2001 + Amendment:2002 + Amendment2:2003 + Amendment3:2004 + Amendment4: 2004	RSS-210(issue 5): 2001 + Amendment:2002 + Amendment2:2003 + Amendment3:2004 + Amendment4: 2004	Conducted	N/A	N/A	N/A

3.4 Test Location

UL Apex Co., Ltd. Head Office EMC Lab. *NVLAP Lab. code: 200572-0
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	FCC Registration Number	IC Registration Number	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms
No.1 semi-anechoic chamber	313583	IC4247	19.2 x 11.2 x 7.7m	7.0 x 6.0m	Preparation room
No.2 semi-anechoic chamber	846015	IC4247-2	7.5 x 5.8 x 5.2m	4.0 x 4.0m	-
No.3 shielded room	-	-	4.7 x 7.5 x 2.7m	4.7 x 7.5m	-
No.4 measurement room	-	-	3.1 x 5.0 x 2.7m	N/A	-

* Size of vertical conducting plane (for Conducted Emission test) : 2.0 x 2.0m for No.1 and No.2 semi-anechoic and No.3 shielded room.

3.5 Test set up, Test instruments and Data of EMI

Refer to APPENDIX 1 to 3.

SECTION 4: Operation of E.U.T. during testing

4.1 Operating Modes

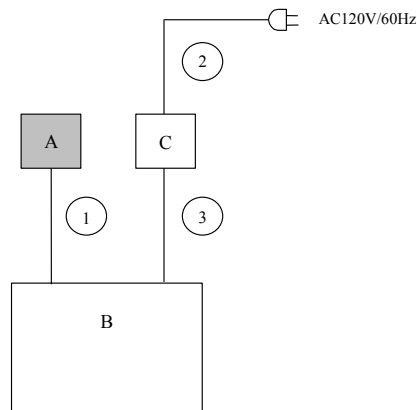
The mode is used : [FHSS:Bluetooth]
Transmitting mode(Packet size DH5)
Low Channel :2402MHz
Mid Channel :2441MHz
High channel :2480MHz
Inquiry and AFH Hopping

[Remarks]

Setting condition of AFH mode (Worst case setting)

- Set packet size to DH5
- Set the minimum hopping channels number to “20” and hopping on within the designated channels

4.2 Configuration and peripherals



* Cabling was taken into consideration and test data was taken under worse case conditions.

Description of EUT and Support equipment

No.	Item	Model number	Serial number	Manufacturer	FCC ID
A	Bluetooth Unit	BU-20	0000855bb370 0000855bb2cc *	CANON	AZDK30259
B	Note PC	NE6/650E	R1210393	FUJITSU	-
C	AC Adapter	FMV-AC304S	013000084A	FUJITSU	-

*0000855bb370(Spurious Emission(Radiated) and Conducted emission) / 0000855bb2cc(Other tests)

List of cables used

No.	Name	Length (m)	Shield	Backshell Material
1	USB Cable	1.0	Y	Polyvinyl chloride
2	AC Power Cable	2.0	N	Polyvinyl chloride
3	DC Power Cable	1.9	N	Polyvinyl chloride

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SECTION 5: Conducted Emission

Test Procedure and conditions

EUT was placed on a platform of nominal size, 1m by 0.5m, raised 80cm above the conducting ground plane. The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. EUT was located 80cm from a Line Impedance Stabilization Network (LISN)/ Artificial mains Network (AMN) and excess AC cable was bundled in center.

1) For the tests on EUT with other peripherals (as a whole system)

I/O cable and AC cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged at a 40cm height to the ground plane.

2) For the tests on EUT itself (as a stand alone equipment)

Each EUT current-carrying power lead, except the ground (safety) lead, was individually connected through a LISN/(AMN) to the input power source. All unused 50ohm connectors of the LISN(AMN) were resistivity terminated in 50ohm when not connected to the measuring equipment.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a Semi Anechoic Chamber or a Measurement Room.

The EUT was connected to a LISN (AMN).

An overview sweep with peak detection has been performed.

Detector	: CISPR quasi-peak and average detector (IF BW 9 kHz)
Measurement range	: 0.15-30MHz
Test data	: APPENDIX 3
Test result	: Pass

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SECTION 6: Spurious Emission

[Conducted]

Test Procedure

The Out of Band Emission was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3

Test result : Pass

[Radiated]

Test Procedure

EUT was placed on a platform of nominal size, 1.0m, raised 80cm above the conducting ground plane.

The Radiated Electric Field Strength intensity has been measured in a Semi Anechoic Chamber with a ground plane and at a distance of 3m(Below 10GHz) and 1m(Upper 10GHz).

The height of the measuring varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer (in linear mode).

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on a radiated measurement.

Test data : APPENDIX 3

Test result : Pass

20dBc was applied to the frequency over the limit of FCC 15.209 and outside the restricted band of 15.205.

Frequency	Below 1GHz	Above 1GHz
Instrument used	Test Receiver / Spectrum Analyzer	Spectrum Analyzer
Detector	QP: BW 120kHz(T/R)	PK: RBW:1MHz/VBW: 1MHz
IF Bandwidth	20dBc : RBW: 100kHz VBW: 300kHz (S/A)	AV: RBW:1MHz/VBW:10Hz 20dBc : RBW:100kHz/VBW:300kHz

- The carrier level and noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

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SECTION 7: Bandwidth

Test Procedure

The bandwidth was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3
Test result : Pass

SECTION 8: Maximum Peak Output Power

Test Procedure

The test was made with the spectrum analyzer that has a function of channel-power measurements.
The Maximum Peak Output Power was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3
Test result : Pass

SECTION 9: Carrier Frequency Separation

Test Procedure

The carrier frequency separation was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3
Test result : Pass

SECTION 10: Number of Hopping Frequency

Test Procedure

The Number of Hopping Frequency was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3
Test result : Pass

SECTION 11: Dwell time

Test Procedure

The Dwell time was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3
Test result : Pass

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APPENDIX 1: Photographs of test setup

- ☐
- ☐
- ☐
- ☐
- ☐
- ☐

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Spurious Emission (Radiated)

- ☐
- ☐
- ☐
- ☐
- ☐
- ☐

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Worst Case Position (X-axis:Horizontal / Y-axis:Vertical)

- ☐
- ☐
- ☐
- ☐
- ☐
- ☐

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APPENDIX 2:Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE/CE	2004/11/13 * 12
MCC-01	Coaxial Cable 0.1-3000MHz	Suhner/storm/Agilent/TSJ	-	RE	2004/12/19 * 12
MCC-16	Microwave Cable	Suhner	SUCOFLEX104	RE	2005/02/03 * 12
MCC-26	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2004/08/26 * 12
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	RE	2004/10/14 * 12
MLA-01	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2004/10/14 * 12
MHA-02	Horn Antenna	EMCO	3160-09	RE	2005/01/10 * 12
MHA-05	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2005/01/10 * 12
MPA-04	Pre Amplifier	Agilent	8447D	RE	2005/05/24 * 12
MPA-05	Pre Amplifier	TSJ	TSJ 1-26.5GHz PreAmp	RE	2005/06/03 * 12
MHF-02	High Pass Filter	Tokimec	TF323DCA	RE	2004/09/18 * 12
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE/CE	2004/11/12 * 12
MAT-06	Attenuator(6dB)	Weinschel Corp	2	RE	2004/12/16 * 12
MLS-02	LISN(AMN)	Schwarzbeck	NSLK8127	CE	2004/11/10 * 12
MCC-03	Coaxial Cable	Fujikura/Suhner/Agilent/TSJ	-	CE	2004/12/24 * 12
MAT-23	Attenuator(10dB) (above1GHz)	Orient Microwave	BX10-0476-00	OT	2005/03/16 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	OT	2005/06/03 * 12

All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Test Item:

CE: Conducted emission,
RE: Radiated emission,
OT: Other

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APPENDIX 3: Data of EMI test

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

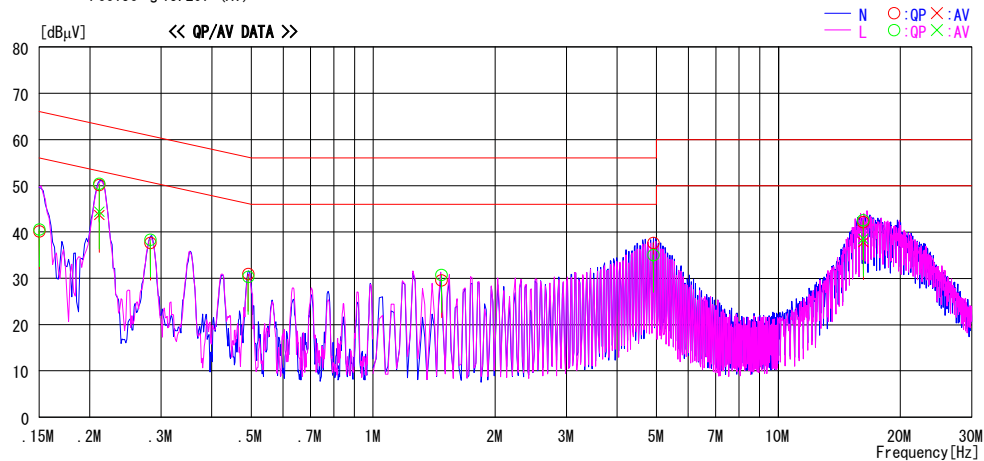
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/05/22 09:38:20

Applicant : CANON INC.
Kind of EUT : Bluetooth Unit
Model No. : BU-20
Serial No. : 0000855bb370

Report No. : 251E0085-HO
Power : DC5.0V (AC120V/60Hz)
Temp°C/Humi% : 23deg. C / 57%
Operator : Hiroka Umeyama

Mode / Remarks : Transmitting 2402MHz

LIMIT : FCC15C § 15.207 (QP)
FCC15C § 15.207 (AV)



NO	FREQ [MHz]	READING		C.F	RESULT		LIMIT		MARGIN		PHASE
		QP [dBμV]	AV [dBμV]		QP [dBμV]	AV [dBμV]	QP [dBμV]	AV [dBμV]	QP [dB]	AV [dB]	
1	0.1500	39.9	---	0.3	40.2	---	66.0	---	25.8	---	N
2	0.2111	49.6	43.1	0.6	50.2	43.7	63.2	53.2	13.0	9.5	N
3	0.2820	37.3	---	0.4	37.7	---	60.8	---	23.1	---	N
4	0.4919	30.6	---	0.4	31.0	---	56.1	---	25.1	---	N
5	1.4740	29.1	---	0.5	29.6	---	56.0	---	26.4	---	N
6	4.9150	36.7	---	1.0	37.7	---	56.0	---	18.3	---	N
7	16.2105	40.2	35.8	2.0	42.2	37.8	60.0	50.0	17.8	12.2	N
8	0.1500	40.3	---	0.3	40.6	---	66.0	---	25.4	---	L
9	0.2111	49.8	43.8	0.6	50.4	44.4	63.2	53.2	12.8	8.8	L
10	0.2820	38.0	---	0.4	38.4	---	60.8	---	22.4	---	L
11	0.4919	29.9	---	0.4	30.3	---	56.1	---	25.8	---	L
12	1.4740	30.2	---	0.5	30.7	---	56.0	---	25.3	---	L
13	4.9150	34.1	---	1.0	35.1	---	56.0	---	20.9	---	L
14	16.2105	40.6	36.5	2.0	42.6	38.5	60.0	50.0	17.4	11.5	L

CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/05/22 09:29:56

Applicant : CANON INC.
Kind of EUT : Bluetooth Unit
Model No. : BU-20
Serial No. : 0000855bb370

Report No. : 251E0085-HO
Power : DC5.0V (AC120V/60Hz)
Temp°C/Humi% : 23deg. C / 57%
Operator : Hiroka Umeyama

Mode / Remarks : Transmitting 2441MHz

LIMIT : FCC15C §15.207 (QP)
FCC15C §15.207 (AV)

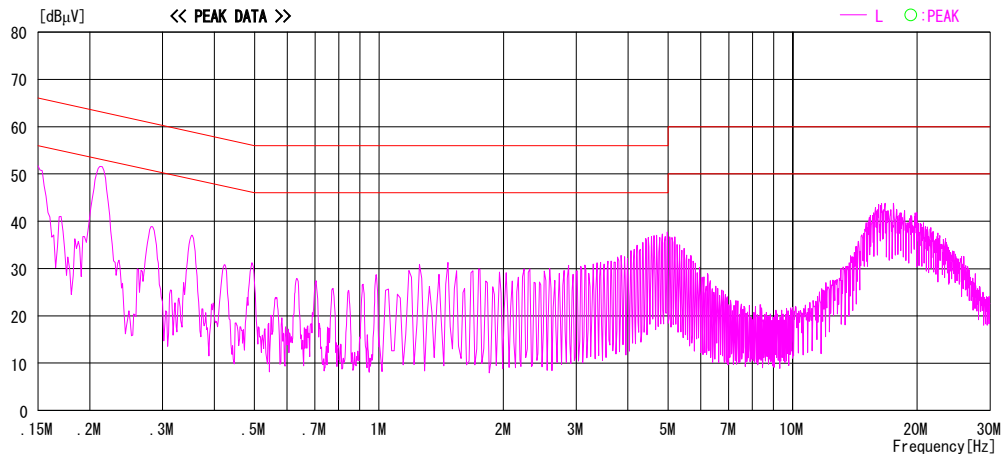
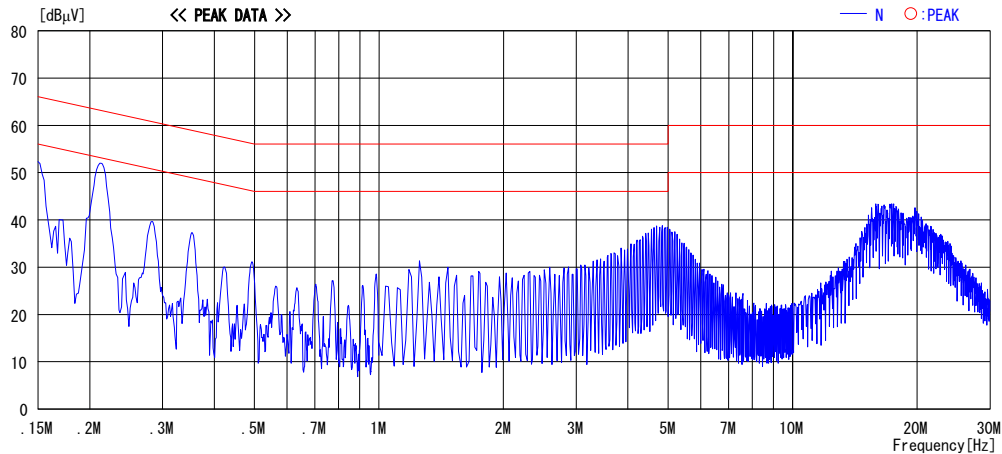


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/05/22 09:24:08

Applicant : CANON INC.
Kind of EUT : Bluetooth Unit
Model No. : BU-20
Serial No. : 0000855bb370

Report No. : 251E0085-HO
Power : DC5.0V (AC120V/60Hz)
Temp°C/Humi% : 23deg. C / 57%
Operator : Hiroka Umeyama

Mode / Remarks : Transmitting 2480MHz

LIMIT : FCC15C §15.207 (QP)
FCC15C §15.207 (AV)

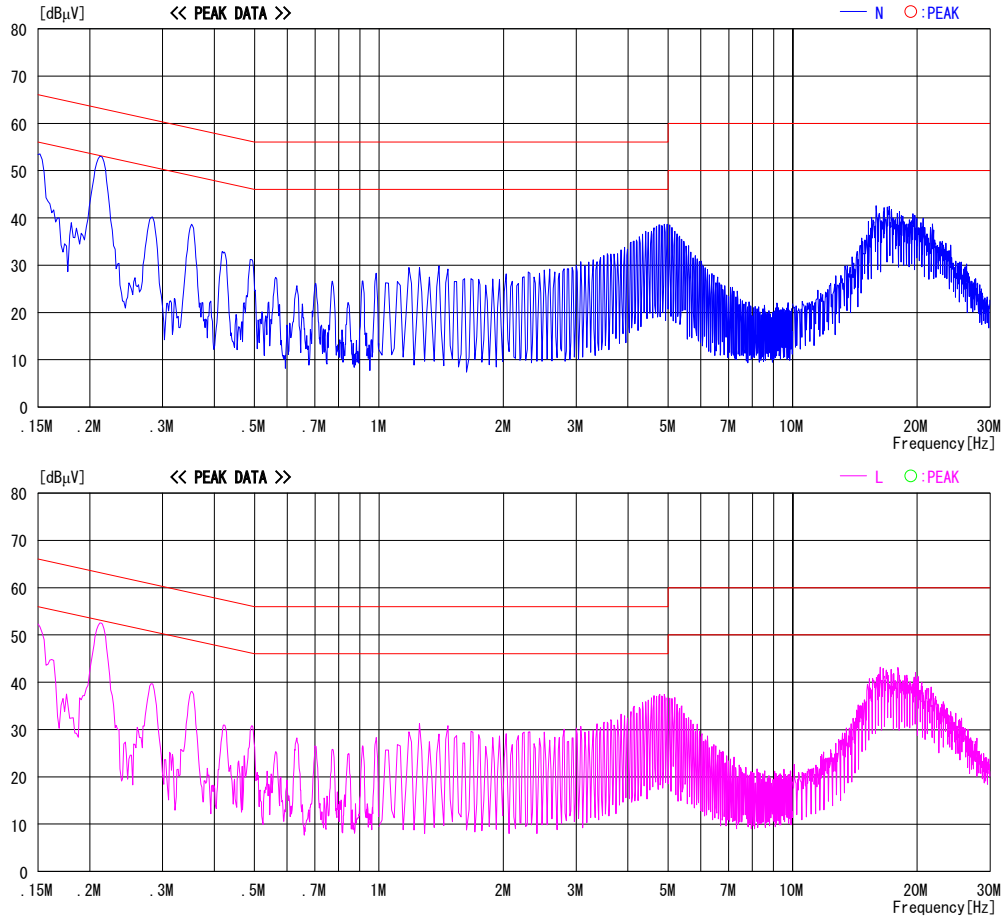


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

[FHSS]

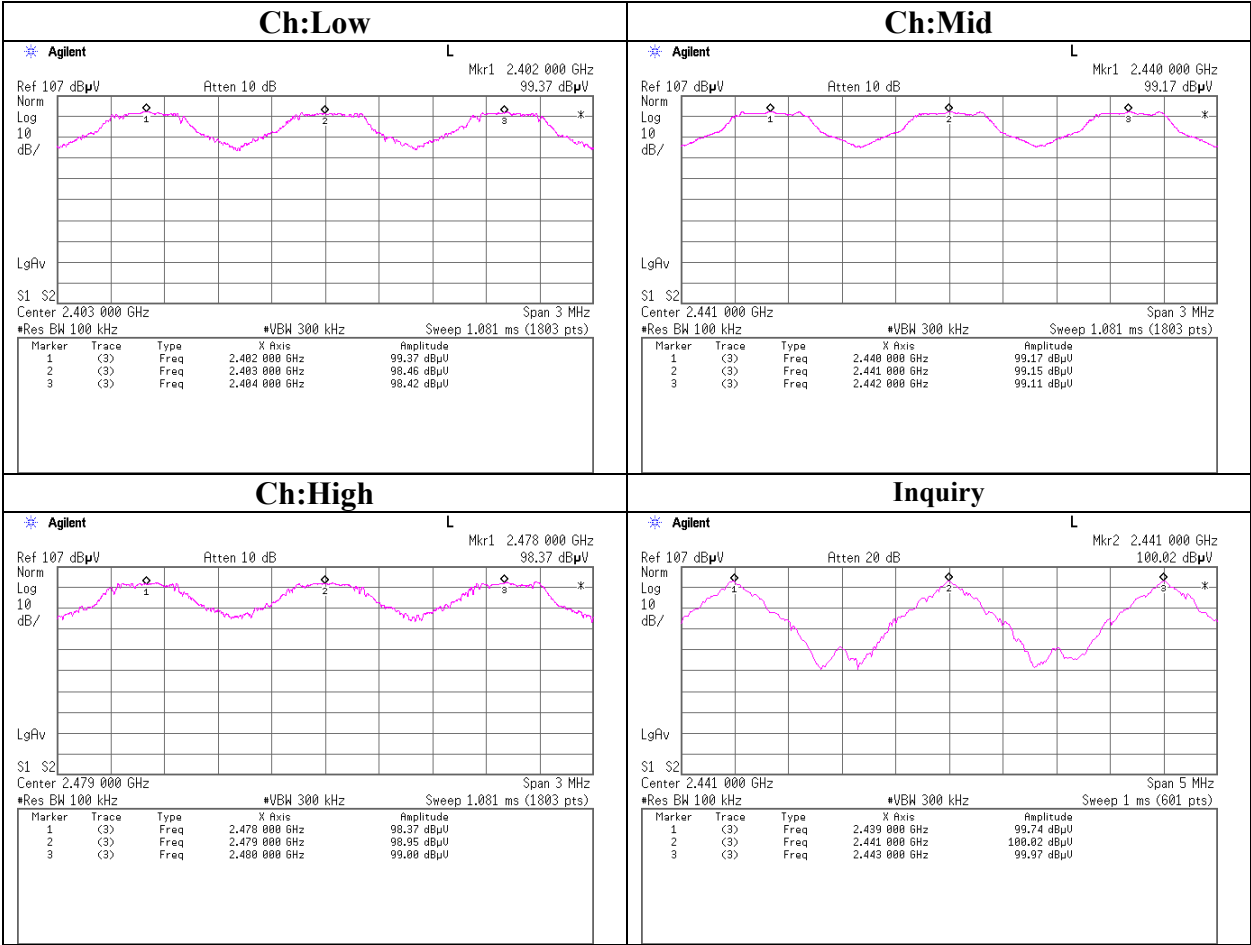
Carrier Frequency Separation(FHSS)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY	: CANON INC	REGULATION	: Fcc Part15 Subpart C 15.247(a)(1)
EQUIPMENT	: Bluetooth Unit	TEST DISTANCE	: -
MODEL	: BU-20	DATE	: 05/31/2005
S/ N	: 0000855bb2cc	TEMPERATURE	: 24deg.C
POWER	: DC 5.0V	HUMIDITY	: 50%
MODE	: Tx(Hopping on)/Inquiry	ENGINEER	: Makoto Kosaka

Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.000	>20dB Bandwidth and 25[kHz]
Mid	2441.0	1.000	>20dB Bandwidth and 25[kHz]
High	2480.0	1.000	>20dB Bandwidth and 25[kHz]
Inquiry	2441.0	2.000	>20dB Bandwidth and 25[kHz]

Carrier Frequency Separation(FHSS)



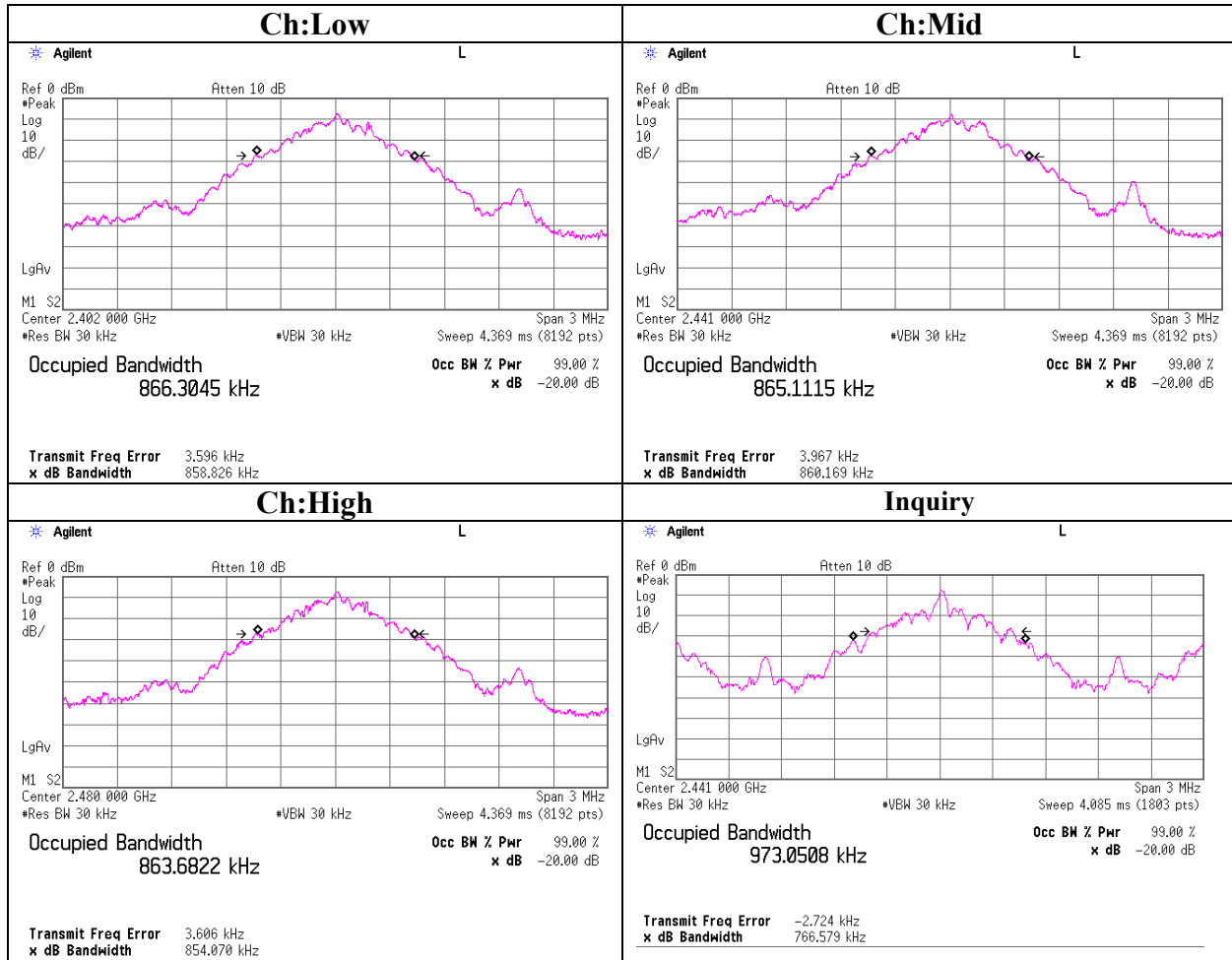
20dB Bandwidth(FHSS)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY	: CANON INC	REGULATION	: Fcc Part15 Subpart C 15.247(a)(1)
EQUIPMENT	: Bluetooth Unit	TEST DISTANCE	: -
MODEL	: BU-20	DATE	: 05/31/2005
S/N	: 0000855bb2cc	TEMPERATURE	: 24deg.C
POWER	: DC 5.0V	HUMIDITY	: 50%
MODE	: Tx (Hopping off) /Inquiry	ENGINEER	: Makoto Kosaka

Ch	Freq.	20dB Bandwidth	Limit
	[MHz]	[MHz]	[MHz]
Low	2402.0	0.859	-
Mid	2441.0	0.860	-
High	2480.0	0.854	-
Inquiry	2441.0	0.767	-

20dB Bandwidth(FHSS)



Number of Hopping Frequency(FHSS)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

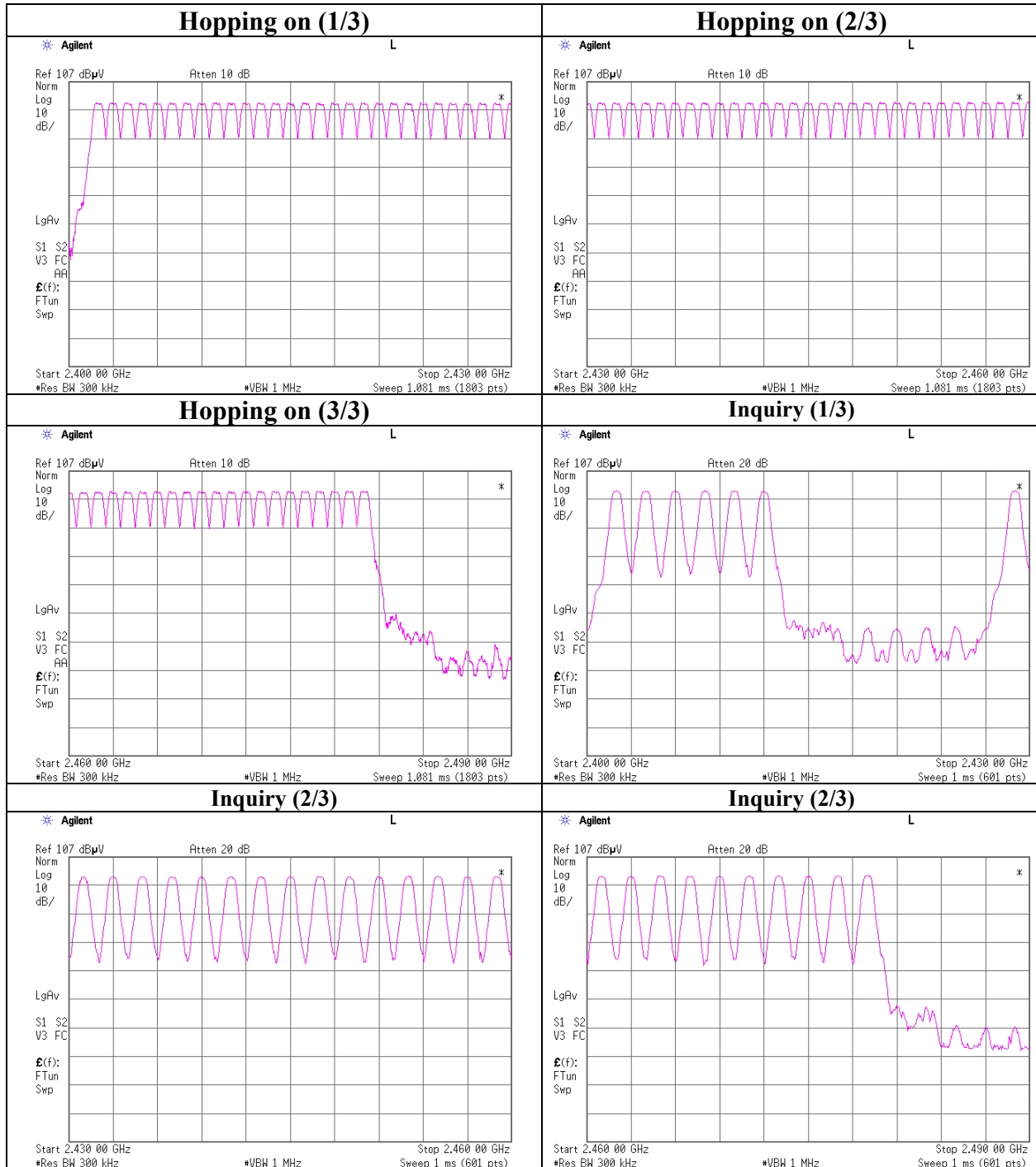
COMPANY	: CANON INC	REGULATION	: Fcc Part15 Subpart C 15.247(a)(1)(iii)
EQUIPMENT	: Bluetooth Unit	TEST DISTANCE	: -
MODEL	: BU-20	DATE	: 05/31/2005
S/ N	: 0000855bb2cc	TEMPERATURE	: 24deg.C
POWER	: DC 5.0V	HUMIDITY	: 50%
MODE	: Tx (Hopping on) /Inquiry	ENGINEER	: Makoto Kosaka

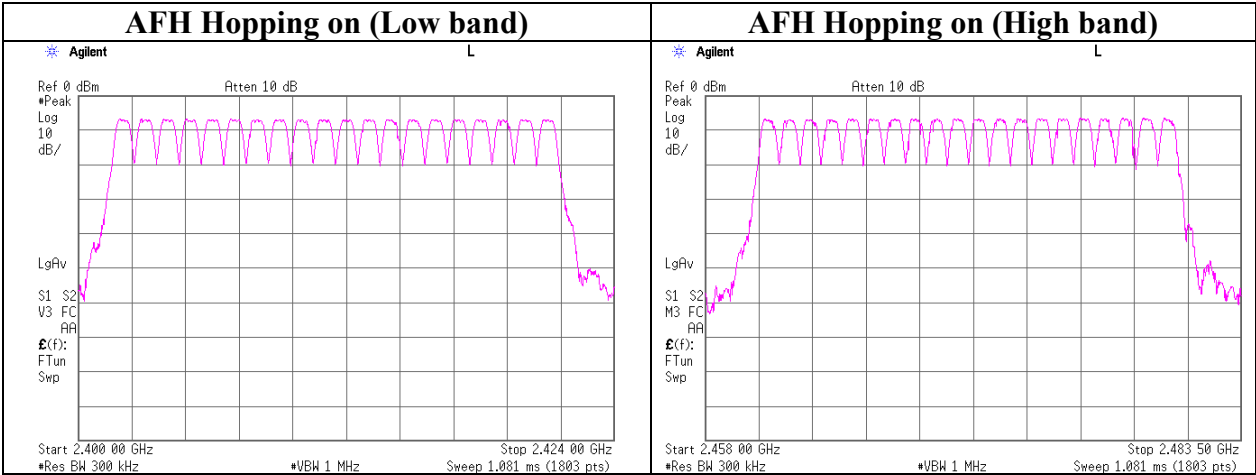
Mode	Number of channel	Limit
	[time]	[time]
Tx(Hoppng on)	79	≥ 15

Mode	Number of channel	Limit
	[time]	[time]
Inquiry	32	≥ 15

Mode	Number of channel	Limit
	[time]	[time]
AFH	20	≥ 15

Number of Hopping Frequency(FHSS)





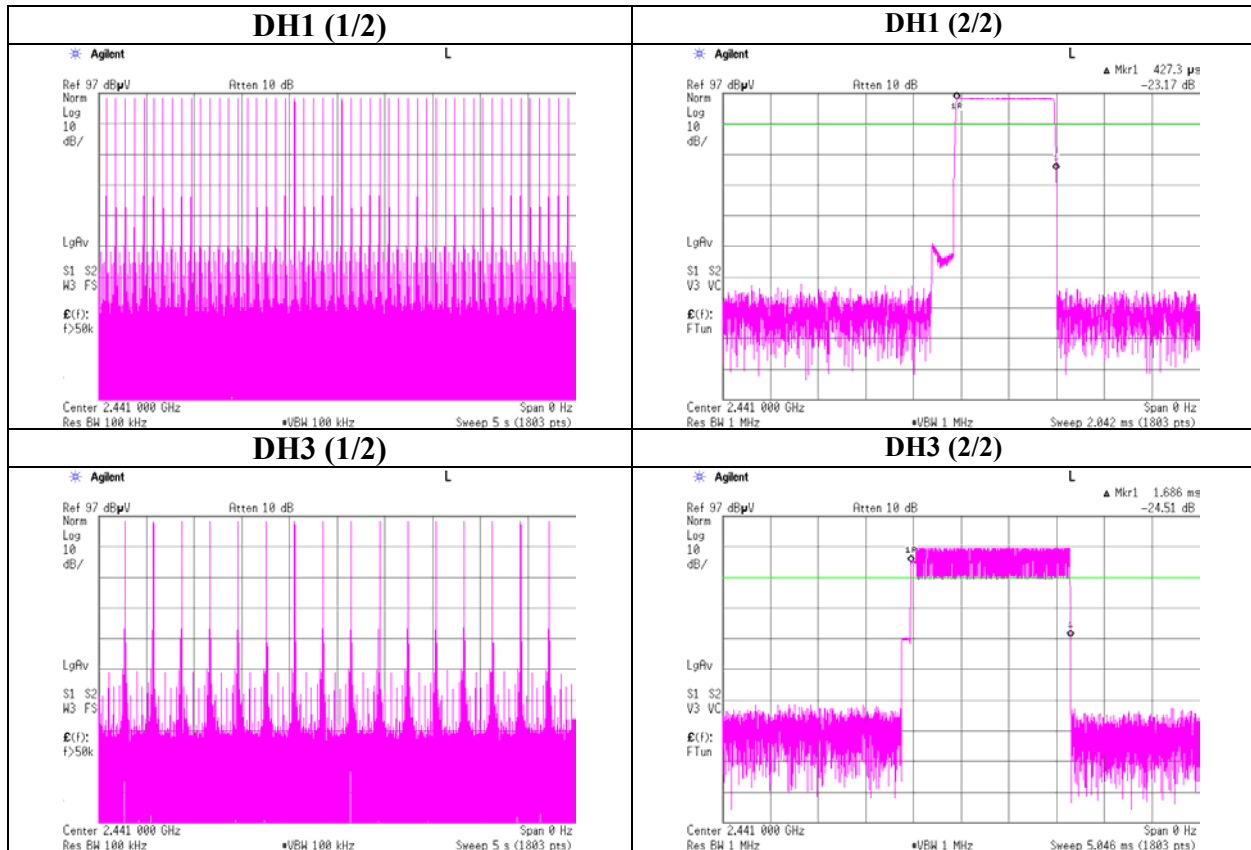
Dwell time(FHSS)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

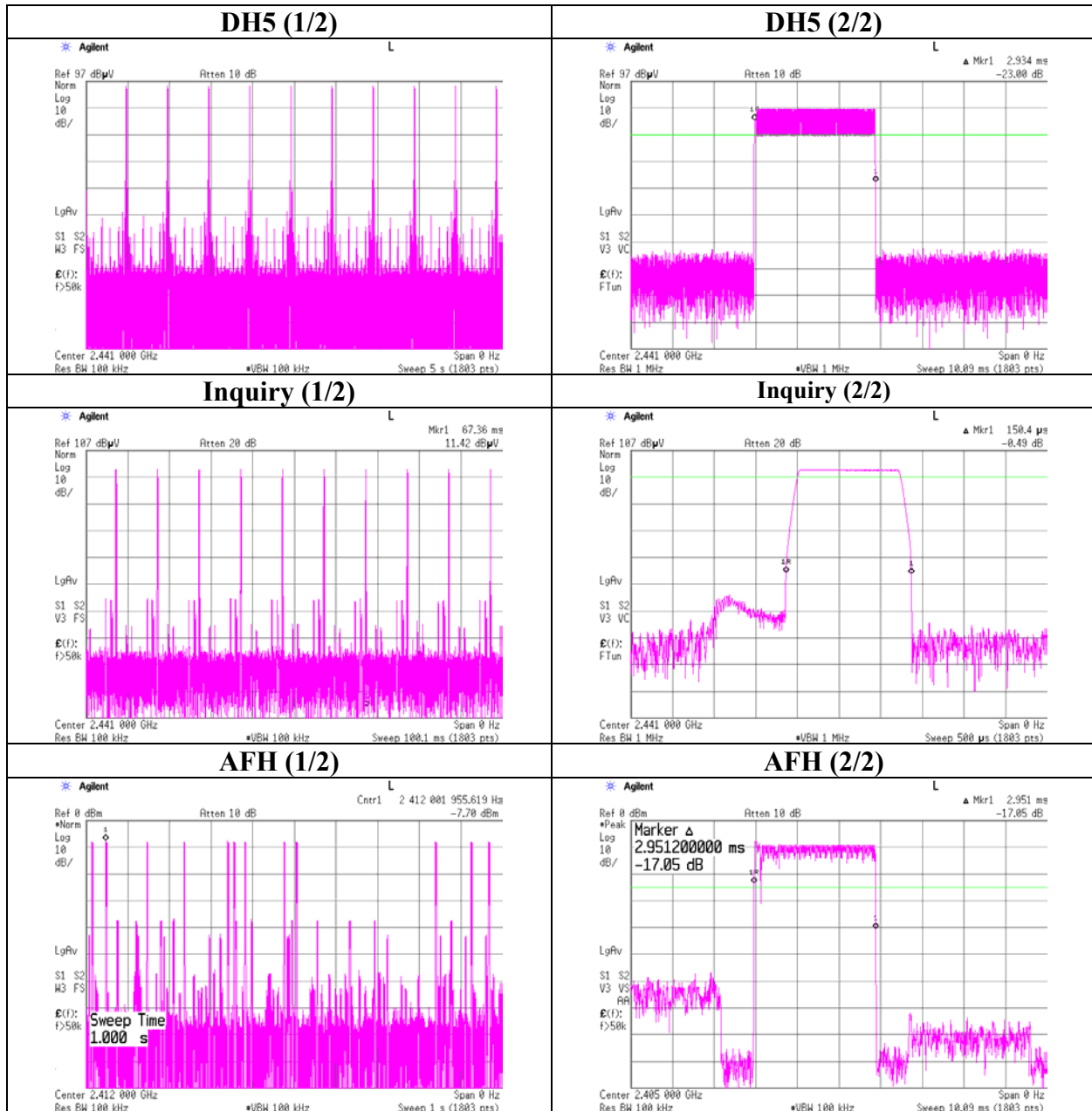
COMPANY	: CANON INC	REGULATION	: Fcc Part15 Subpart C 15.247(a)(1)
EQUIPMENT	: Bluetooth Unit	TEST DISTANCE	: -
MODEL	: BU-20	DATE	: 05/31/2005
S/N	: 0000855bb2cc	TEMPERATURE	: 24deg.C
POWER	: DC 5.0V	HUMIDITY	: 50%
MODE	: Tx (Hopping on) /Inquiry	ENGINEER	: Makoto Kosaka

Mode	Number of transmission in a 31.6(79 Hopping x 0.4) / 12.8(32 Hopping x 0.4)second period	Length of transmission time [msec]	Result [msec]	Limit [msec]
DH1	50 times /5sec. x 31.6 = 316 times	0.427	135	400
DH3	16 times / 5sec. x 31.6 = 101 times	1.686	170	400
DH5	10 times / 5 sec. x 31.6 = 63 times	2.934	185	400
Inquiry	10 times / 0.1sec. x 12.8 = 1280 times	0.150	192	400
AFH	14.2times(AV) / 1sec. x 8 = 113.6 times	2.951	335	400

Dwell time(FHSS)



Dwell time(FHSS)



Maximum Peak Output Power(FHSS)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

COMPANY	: CANON INC	REGULATION	: Fcc Part15 Subpart C 15.247(b)(1)
EQUIPMENT	: Bluetooth Unit	TEST DISTANCE	: -
MODEL	: BU-20	DATE	: 05/31/2005
S/N	: 0000855bb2cc	TEMPERATURE	: 24deg.C
POWER	: DC 5.0V	HUMIDITY	: 50%
MODE	: Tx(Hopping off)/Inquiry	ENGINEER	: Makoto Kosaka

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit (1W) [dBm]	Margin [dB]
Low	2402.0	-7.35	0.10	10.00	2.75	30.00	27.25
Mid	2441.0	-7.56	0.10	10.00	2.54	30.00	27.46
High	2480.0	-7.09	0.10	10.00	3.01	30.00	26.99
Inquiry	2441.0	-7.13	0.10	10.00	2.97	20.96	17.99
AFH	2441.0	-7.23	0.10	10.00	2.87	20.96	18.09

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer)+ Attenuator

* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

*The test result applied to the most strictest limit of 0.125W.

UL Apex Co., Ltd.

Head Office EMC Lab.

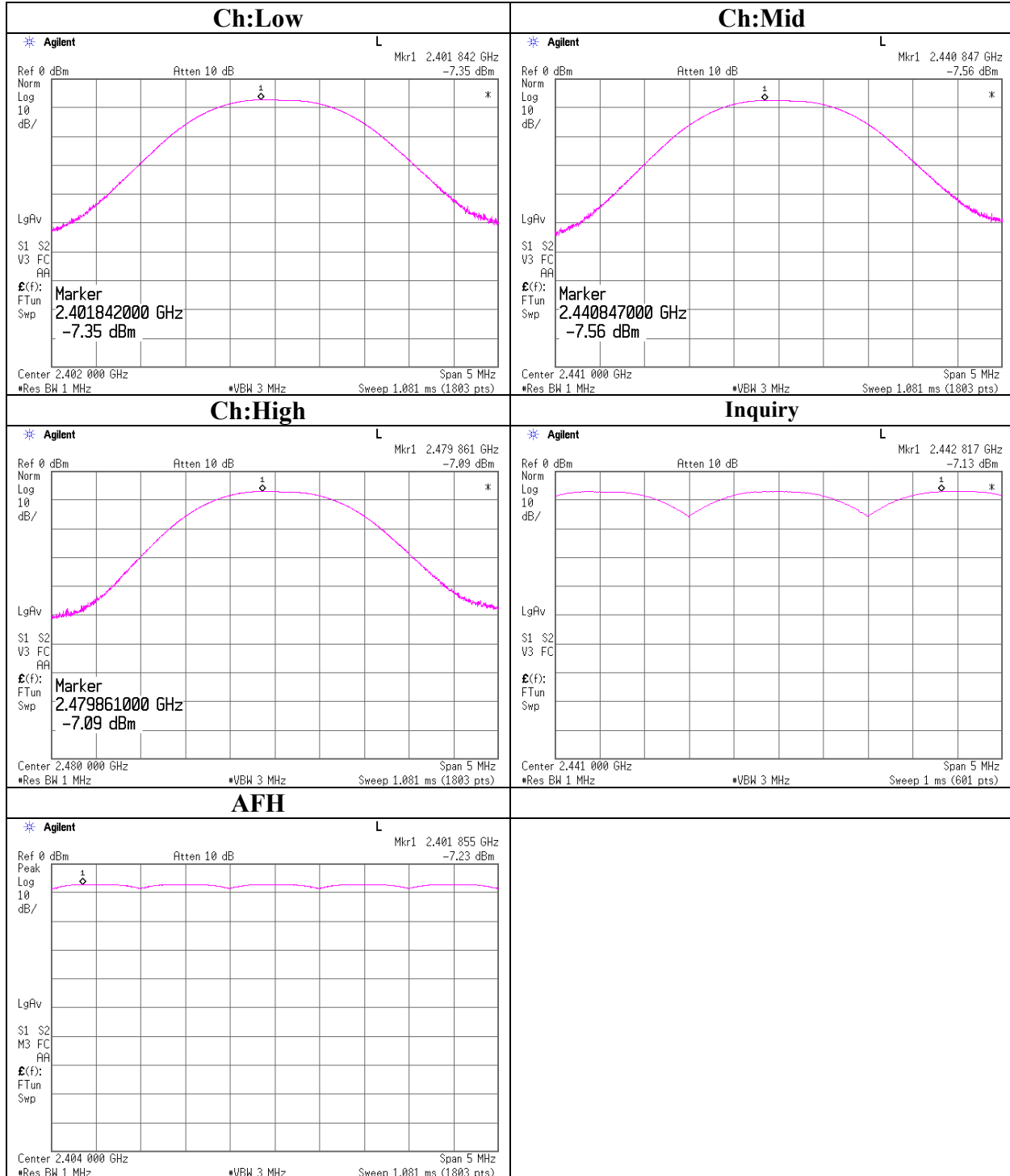
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(01.06.05)

Maximum Peak Output Power(FHSS)



Radiated Spurious Emission(FHSS)

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

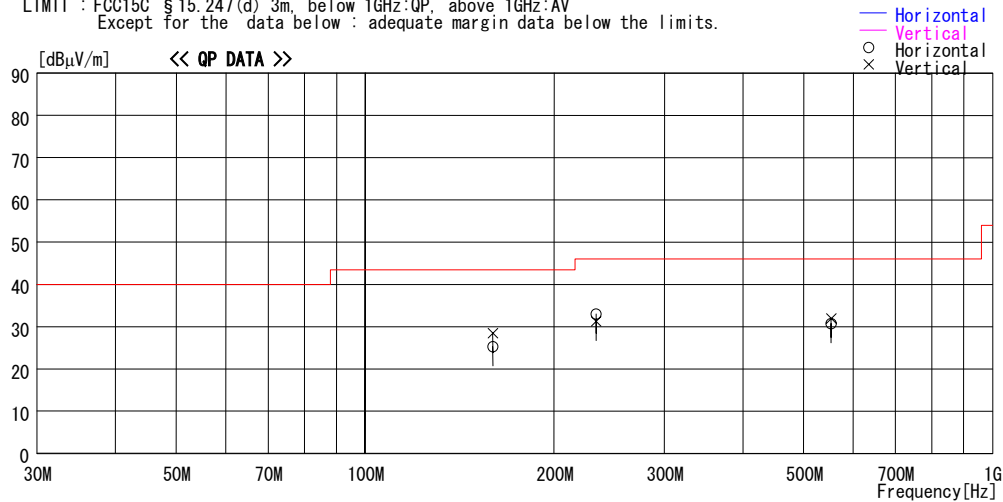
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber

Applicant : CANON INC.
Kind of EUT : Bluetooth Unit
Model No. : BU-20
Serial No. : 0000855bb370

Report No. : 251E0085-H0
Power : DC5.0V (AC120V/60Hz)
Temp/C/Humi% : 24deg. C / 42%
Operator : Norihisa Hashimoto

Mode / Remarks : Transmittig 2402MHz / Max-axis(Hor:X Ver:Y)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dBμV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBμV/m]	LIMIT [dBμV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	159.745	28.7	15.7	8.8	27.9	25.3	43.5	18.2	327	262
2	233.486	33.5	17.3	9.5	27.3	33.0	46.0	13.0	374	76
3	552.990	28.3	19.3	11.5	28.4	30.7	46.0	15.3	100	124
----- Vertical -----										
4	159.755	31.8	15.7	8.8	27.9	28.4	43.5	15.1	100	201
5	233.482	31.7	17.3	9.5	27.3	31.2	46.0	14.8	157	144
6	552.992	29.6	19.3	11.5	28.4	32.0	46.0	14.0	100	186

CHART:WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN

UL Apex Co., Ltd.

Head Office EMC Lab.

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MF060b(01.06.05)

Radiated Spurious Emission(FHSS)

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

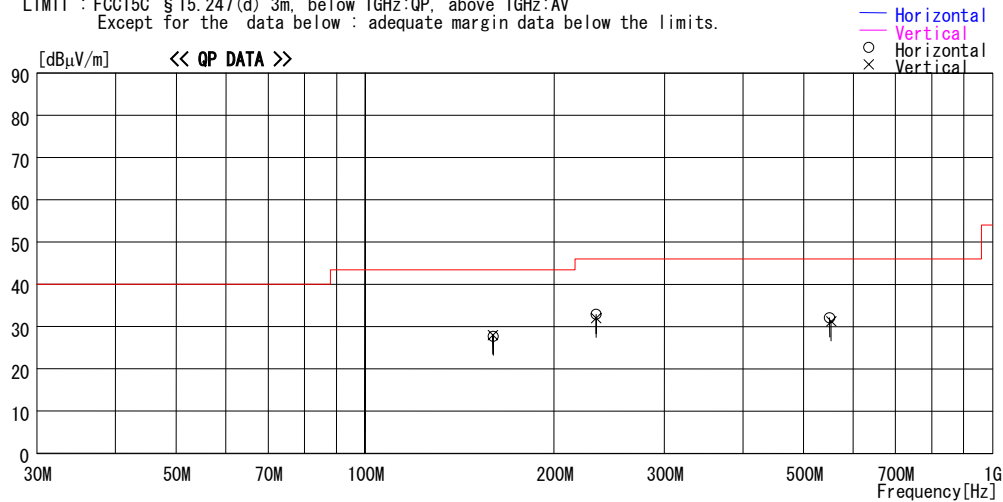
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber

Applicant : CANON INC.
Kind of EUT : Bluetooth Unit
Model No. : BU-20
Serial No. : 0000855bb370

Report No. : 251E0085-H0
Power : DC5.0V (AC120V/60Hz)
Temp°C/Humi% : 24deg. C / 42%
Operator : Norihisa Hashimoto

Mode / Remarks : Transmittig 2441MHz / Max-axis(Hor:X Ver:Y)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dBμV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBμV/m]	LIMIT [dBμV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	159.929	31.1	15.7	8.8	27.9	27.7	43.5	15.8	213	253
2	233.493	33.4	17.3	9.5	27.3	32.9	46.0	13.1	356	83
3	549.725	29.8	19.2	11.5	28.4	32.1	46.0	13.9	100	167
----- Vertical -----										
4	159.758	31.4	15.7	8.8	27.9	28.0	43.5	15.5	100	122
5	233.490	32.5	17.3	9.5	27.3	32.0	46.0	14.0	100	166
6	552.991	28.8	19.3	11.5	28.4	31.2	46.0	14.8	100	190

CHART:WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN

UL Apex Co., Ltd.

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Radiated Spurious Emission(FHSS)

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

DATA OF RADIATED EMISSION TEST

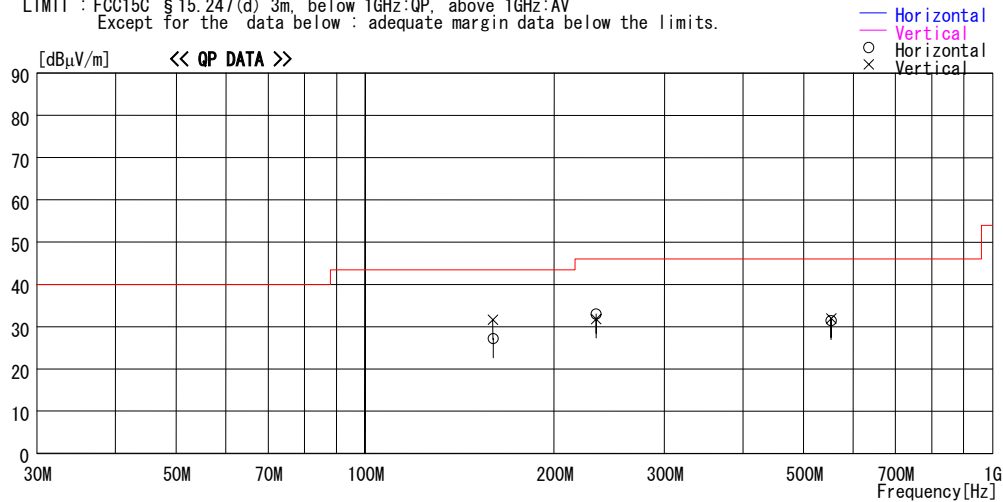
UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber

Applicant : CANON INC.
Kind of EUT : Bluetooth Unit
Model No. : BU-20
Serial No. : 0000855bb370

Report No. : 251E0085-H0
Power : DC5.0V (AC120V/60Hz)
Temp°C/Humi% : 24deg. C / 42%
Operator : Norihisa Hashimoto

Mode / Remarks : Transmittig 2480MHz / Max-axis(Hor:X Ver:Y)

LIMIT : FCC15C § 15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dBμV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBμV/m]	LIMIT [dBμV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	159.929	30.6	15.7	8.8	27.9	27.2	43.5	16.3	191	248
2	233.494	33.5	17.3	9.5	27.3	33.0	46.0	13.0	343	74
3	552.991	29.1	19.3	11.5	28.4	31.5	46.0	14.5	100	191
----- Vertical -----										
4	159.757	35.0	15.7	8.8	27.9	31.6	43.5	11.9	100	47
5	233.490	32.3	17.3	9.5	27.3	31.8	46.0	14.2	100	200
6	552.989	29.6	19.3	11.5	28.4	32.0	46.0	14.0	100	186

CHART:WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - AMP. GAIN

UL Apex Co., Ltd.

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MF060b(01.06.05)

Radiated Spurious Emission (FHSS)

Company : CANON INC Equipment : Bluetooth Unit Model : BU-20 Sample No. : 0000855bb370 Power : DC5.0V (AC120V/60Hz) Mode : Transmitting 2402MHz Remarks : Hor X, Ver Y-axis PK DETECT (RBW: 1MHz, VBW: 1MHz)	UL Apex Co., Ltd. REPORT NO : 25IE0085-HO REGULATION : Fcc Part15 Subpart C 15.247(d) TEST DISTANCE : 3/1m DATE : 05/21/2005 TEMPERATURE : 24deg.C HUMIDITY : 36% ENGINEER : Norihisa Hashimoto	Head Office EMC Lab. No.1Semi Anechoic Chamber : 25IE0085-HO : Fcc Part15 Subpart C 15.247(d) : 3/1m : 05/21/2005 : 24deg.C : 36% : Norihisa Hashimoto
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No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1090.5	66.0	64.6	22.8	39.9	1.7	0.0	50.6	49.2	74.0	23.4	24.8
2	1299.8	62.6	62.1	23.2	39.8	1.8	0.0	47.8	47.3	74.0	26.2	26.7
3	1720.4	58.6	59.1	27.0	39.5	2.1	0.0	48.2	48.7	74.0	25.8	25.3
4	2386.0	60.5	61.5	31.0	39.9	2.6	0.0	54.2	55.2	74.0	19.8	18.8
5	4804.0	60.8	63.5	34.9	41.2	3.9	1.0	59.4	62.1	74.0	14.6	11.9
6	7206.0	48.5	48.9	37.6	40.4	4.8	0.4	50.9	51.3	74.0	23.1	22.7
7	9608.0	46.0	46.5	36.3	39.5	5.6	0.2	48.6	49.1	74.0	25.5	25.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	12010.0	48.8	49.2	41.4	39.6	6.6	0.1	47.8	48.2	74.0	26.2	25.8
9	14412.0	48.6	48.3	41.7	41.0	6.7	0.2	46.7	46.4	74.0	27.3	27.6
10	16814.0	48.7	48.1	44.7	41.7	7.1	1.1	50.4	49.8	74.0	23.6	24.2
11	19216.0	45.2	46.2	40.1	40.3	7.6	2.0	45.1	46.1	74.0	28.9	27.9
12	21618.0	46.1	45.4	39.8	35.4	8.2	2.4	51.6	50.9	74.0	22.4	23.1
13	24020.0	45.3	45.6	40.4	32.9	8.2	0.1	51.6	51.9	74.0	22.4	22.1

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1090.5	44.7	44.0	22.8	39.9	1.7	0.0	29.3	28.6	54.0	24.7	25.4
2	1299.8	42.4	42.0	23.2	39.8	1.8	0.0	27.6	27.2	54.0	26.4	26.8
3	1720.4	55.4	56.1	27.0	39.5	2.1	0.0	45.0	45.7	54.0	9.0	8.3
4	2386.0	44.3	45.3	31.0	39.9	2.6	0.0	38.0	39.0	54.0	16.0	15.0
5	4804.0	46.0	47.6	34.9	41.2	3.9	1.0	44.6	46.2	54.0	9.4	7.8
6	7206.0	35.5	35.3	37.6	40.4	4.8	0.4	37.9	37.7	54.0	16.1	16.3
7	9608.0	33.4	33.3	36.3	39.5	5.6	0.2	36.0	35.9	54.0	18.1	18.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	12010.0	35.4	35.5	41.4	39.6	6.6	0.1	34.4	34.5	54.0	19.6	19.5
9	14412.0	35.3	35.3	41.7	41.0	6.7	0.2	33.4	33.4	54.0	20.6	20.6
10	16814.0	35.1	35.0	44.7	41.7	7.1	1.1	36.8	36.7	54.0	17.2	17.3
11	19216.0	32.1	32.2	40.1	40.3	7.6	2.0	32.0	32.1	54.0	22.0	21.9
12	21618.0	32.5	32.5	39.8	35.4	8.2	2.4	38.0	38.0	54.0	16.0	16.0
13	24020.0	32.0	32.0	40.4	32.9	8.2	0.1	38.3	38.3	54.0	15.7	15.7

204dBc(Fundamental 2402MHz) (RBW: 100kHz, VBW: 300kHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2402.0	111.2	111.5	30.9	39.9	2.7	0.0	104.9	105.2	-	-	-
2	2400.0	63.8	66.6	30.9	39.9	2.6	0.0	57.4	60.2	Funda-20dB	27.5	25.0

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.
*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.
*Hi-Pass Filter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission (FHSS)

UL Apex Co., Ltd.
Head Office EMC Lab. No.1Semi Anechoic Chamber

Company : CANON INC	REPORT NO : 25IE0085-HO
Equipment : Bluetooth Unit	REGULATION : Fcc Part15 Subpart C 15.247(d)
Model : BU-20	TEST DISTANCE : 3/1m
Sample No. : 0000855bb370	DATE : 05/21/2005
Power : DC5.0V (AC120V/60Hz)	TEMPERATURE : 24deg.C
Mode : Transmitting 2441MHz	HUMIDITY : 36%
Remarks : Hor X , Ver Y-axis	ENGINEER : Norihisa Hashimoto

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1096.2	65.2	63.6	22.9	39.9	1.8	0.0	50.0	48.4	74.0	24.0	25.6
2	1301.1	59.6	58.5	23.2	39.8	1.8	0.0	44.8	43.7	74.0	29.2	30.3
3	1720.6	55.9	59.2	27.0	39.5	2.1	0.0	45.5	48.8	74.0	28.5	25.2
4	4882.0	63.2	67.1	35.3	41.2	3.9	1.0	62.2	66.1	74.0	11.8	7.9
5	7323.0	47.5	47.8	37.8	40.4	4.8	0.5	50.2	50.5	74.0	23.8	23.5
6	9764.0	45.6	44.7	36.2	39.6	5.6	0.2	48.0	47.1	74.0	26.0	26.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12205.0	49.3	49.0	41.5	39.8	6.6	0.3	48.4	48.1	74.0	25.6	25.9
8	14646.0	48.6	48.2	42.2	40.9	6.7	0.3	47.4	47.0	74.0	26.7	27.1
9	17087.0	47.9	48.0	44.5	41.8	7.1	1.1	49.3	49.4	74.0	24.7	24.6
10	19528.0	44.6	45.5	40.3	39.8	7.9	2.2	45.7	46.6	74.0	28.3	27.4
11	21969.0	48.0	47.9	39.8	35.9	8.2	1.0	51.6	51.5	74.0	22.5	22.6
12	24410.0	44.4	46.5	40.4	33.8	8.4	0.6	50.5	52.6	74.0	23.5	21.4

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1096.2	43.2	44.0	22.9	39.9	1.8	0.0	28.0	28.8	54.0	26.0	25.2
2	1301.1	39.4	39.0	23.2	39.8	1.8	0.0	24.6	24.2	54.0	29.4	29.8
3	1720.6	51.5	55.8	27.0	39.5	2.1	0.0	41.1	45.4	54.0	12.9	8.6
4	4882.0	46.4	48.3	35.3	41.2	3.9	1.0	45.4	47.3	54.0	8.6	6.7
5	7323.0	33.8	33.8	37.8	40.4	4.8	0.5	36.5	36.5	54.0	17.5	17.5
6	9764.0	31.6	31.6	36.2	39.6	5.6	0.2	34.0	34.0	54.0	20.0	20.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12205.0	35.8	35.7	41.5	39.8	6.6	0.3	34.9	34.8	54.0	19.1	19.2
8	14646.0	34.5	34.5	42.2	40.9	6.7	0.3	33.3	33.3	54.0	20.8	20.8
9	17087.0	35.0	35.1	44.5	41.8	7.1	1.1	36.4	36.5	54.0	17.6	17.5
10	19528.0	31.7	31.7	40.3	39.8	7.9	2.2	32.8	32.8	54.0	21.2	21.2
11	21969.0	34.4	34.4	39.8	35.9	8.2	1.0	38.0	38.0	54.0	16.1	16.1
12	24410.0	31.6	31.7	40.4	33.8	8.4	0.6	37.7	37.8	54.0	16.3	16.2

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*Hi-Pass Filter was not used for factor 0.0dB of the above table.

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MF060b(01.06.05)

Radiated Spurious Emission (FHSS)

UL Apex Co., Ltd.
Head Office EMC Lab. No.1Semi Anechoic Chamber

Company : CANON INC Equipment : Bluetooth Unit Model : BU-20 Sample No. : 0000855bb370 Power : DC5.0V (AC120V/60Hz) Mode : Transmitting 2480MHz Remarks : Hor X , Ver Y-axis	REPORT NO : 25IE0085-HO REGULATION : Fcc Part15 Subpart C 15.247(d) TEST DISTANCE : 3/1m DATE : 05/21/2005 TEMPERATURE : 24deg.C HUMIDITY : 36% ENGINEER : Norihisa Hashimoto
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PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1099.9	64.2	65.6	22.9	39.9	1.8	0.0	49.0	50.4	74.0	25.0	23.6
2	1320.6	60.9	61.2	23.2	39.8	1.9	0.0	46.2	46.5	74.0	27.8	27.5
3	1720.6	55.8	56.1	27.0	39.5	2.1	0.0	45.4	45.7	74.0	28.6	28.3
4	2483.5	71.1	70.9	30.8	40.0	2.5	0.0	64.4	64.2	74.0	9.6	9.8
5	4960.1	60.2	60.8	35.8	41.3	3.9	1.1	59.7	60.3	74.0	14.4	13.8
6	7440.0	48.3	48.5	37.9	40.3	4.8	0.7	51.4	51.6	74.0	22.6	22.4
7	9920.0	47.8	47.5	36.2	39.6	5.8	0.3	50.5	50.2	74.0	23.5	23.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	12400.0	49.8	49.5	41.6	40.0	6.6	0.4	48.9	48.6	74.0	25.1	25.4
9	14880.0	47.5	47.6	42.6	40.9	6.9	0.5	47.1	47.2	74.0	26.9	26.8
10	17360.0	48.8	48.9	44.4	41.6	7.1	1.0	50.2	50.3	74.0	23.9	23.8
11	19840.0	43.9	45.2	40.4	39.4	8.0	1.5	44.9	46.2	74.0	29.2	27.9
12	22320.0	47.8	46.8	39.8	35.3	8.2	1.0	52.0	51.0	74.0	22.0	23.0
13	24800.0	46.2	45.4	40.7	34.6	8.6	1.3	52.7	51.9	74.0	21.3	22.1

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1099.9	43.6	44.0	22.9	39.9	1.8	0.0	28.4	28.8	54.0	25.6	25.2
2	1320.6	41.5	40.8	23.2	39.8	1.9	0.0	26.8	26.1	54.0	27.2	27.9
3	1720.6	49.2	52.9	27.0	39.5	2.1	0.0	38.8	42.5	54.0	15.2	11.5
4	2483.5	50.4	50.0	30.8	40.0	2.5	0.0	43.7	43.3	54.0	10.3	10.7
5	4960.1	44.0	44.7	35.8	41.3	3.9	1.1	43.5	44.2	54.0	10.6	9.9
6	7440.0	35.3	35.2	37.9	40.3	4.8	0.7	38.4	38.3	54.0	15.6	15.7
7	9920.0	34.2	34.6	36.2	39.6	5.8	0.3	36.9	37.3	54.0	17.1	16.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	12400.0	36.2	36.0	41.6	40.0	6.6	0.4	35.3	35.1	54.0	18.7	18.9
9	14880.0	34.2	34.3	42.6	40.9	6.9	0.5	33.8	33.9	54.0	20.2	20.1
10	17360.0	35.1	35.2	44.4	41.6	7.1	1.0	36.5	36.6	54.0	17.6	17.5
11	19840.0	31.6	31.6	40.4	39.4	8.0	1.5	32.6	32.6	54.0	21.5	21.5
12	22320.0	33.8	33.9	39.8	35.3	8.2	1.0	38.0	38.1	54.0	16.0	15.9
13	24800.0	32.9	33.0	40.7	34.6	8.6	1.3	39.4	39.5	54.0	14.6	14.5

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

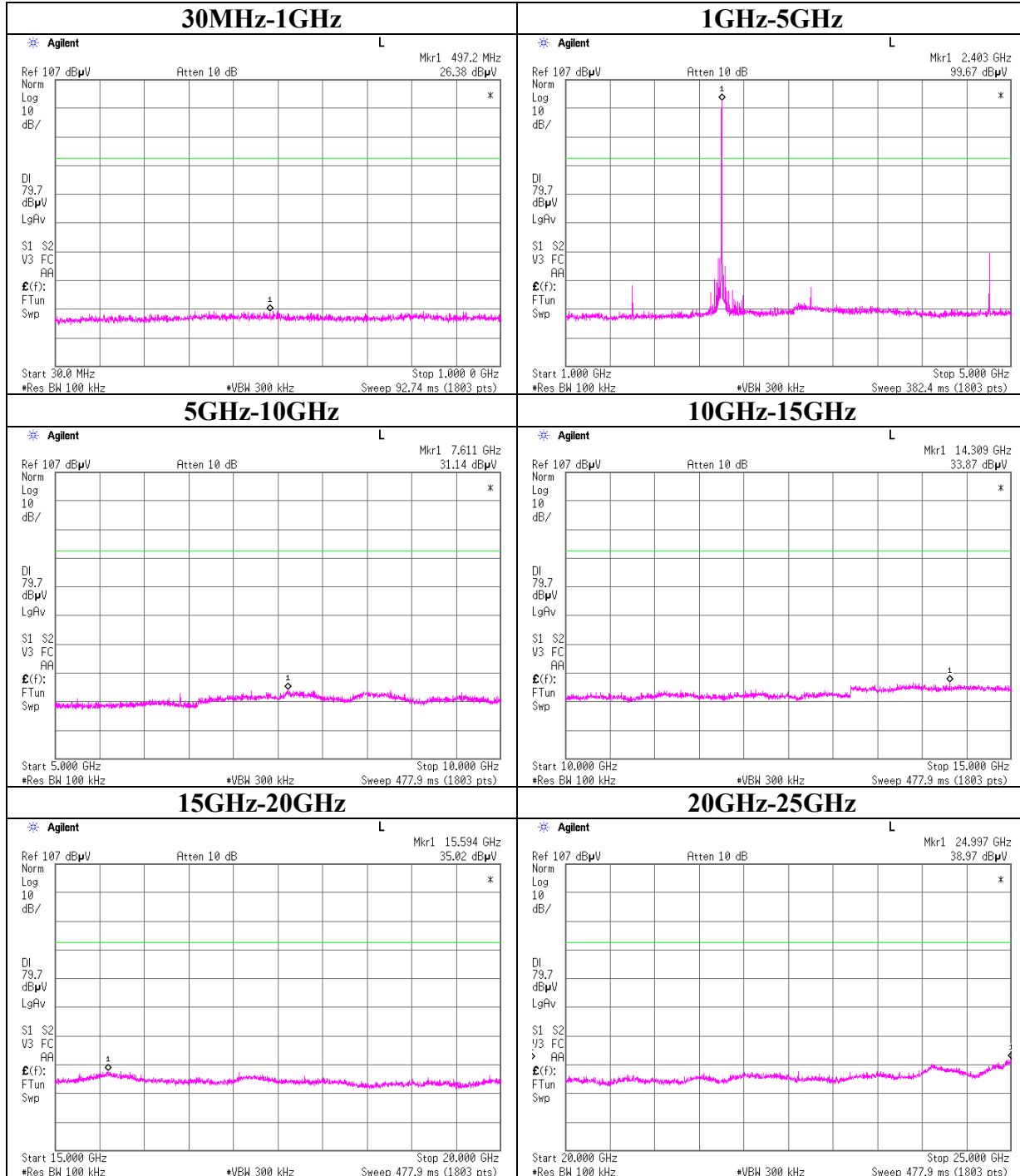
*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

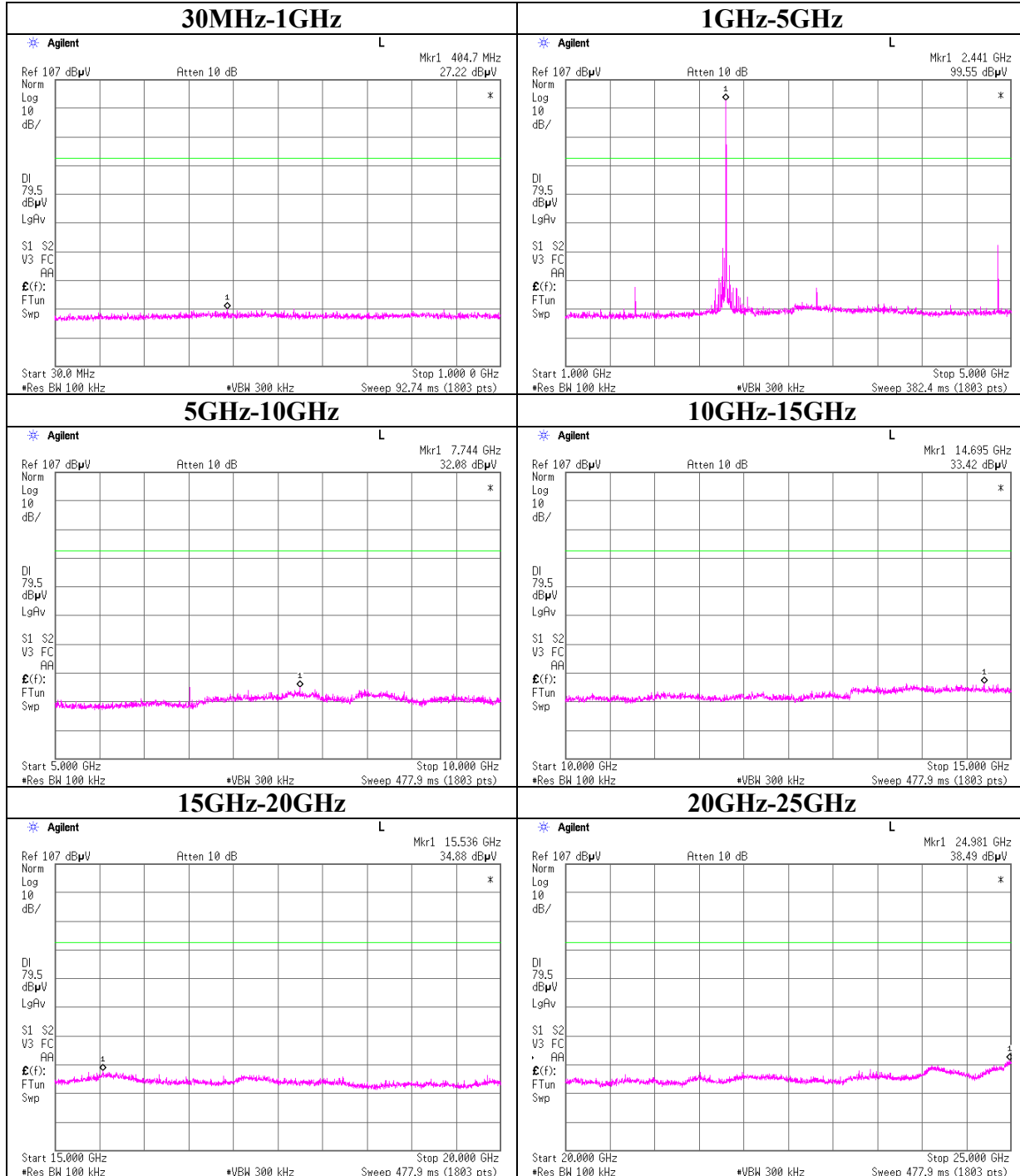
*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

Conducted Spurious Emission (FHSS)

Ch:Low

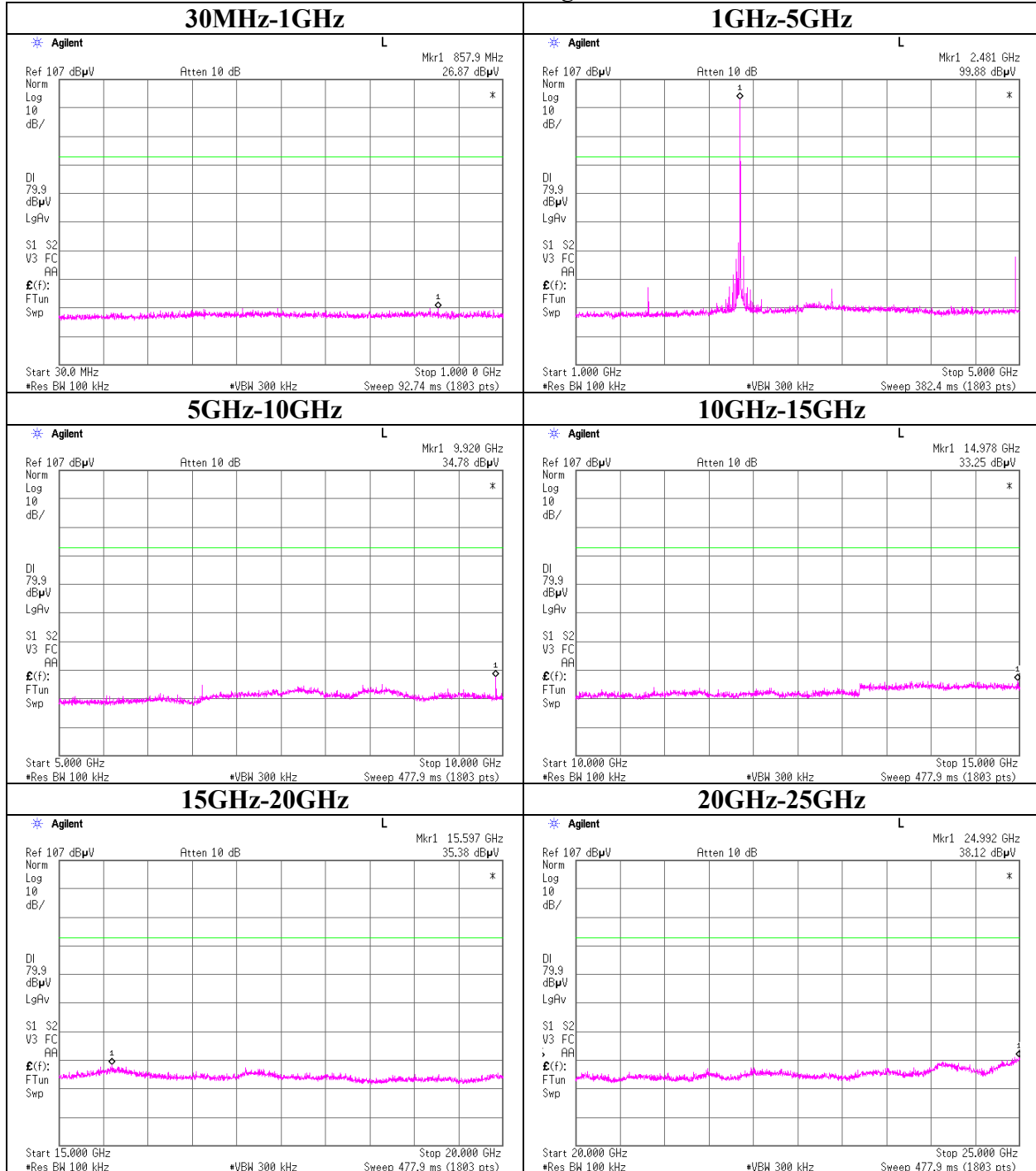


Conducted Spurious Emission (FHSS)
Ch:Mid

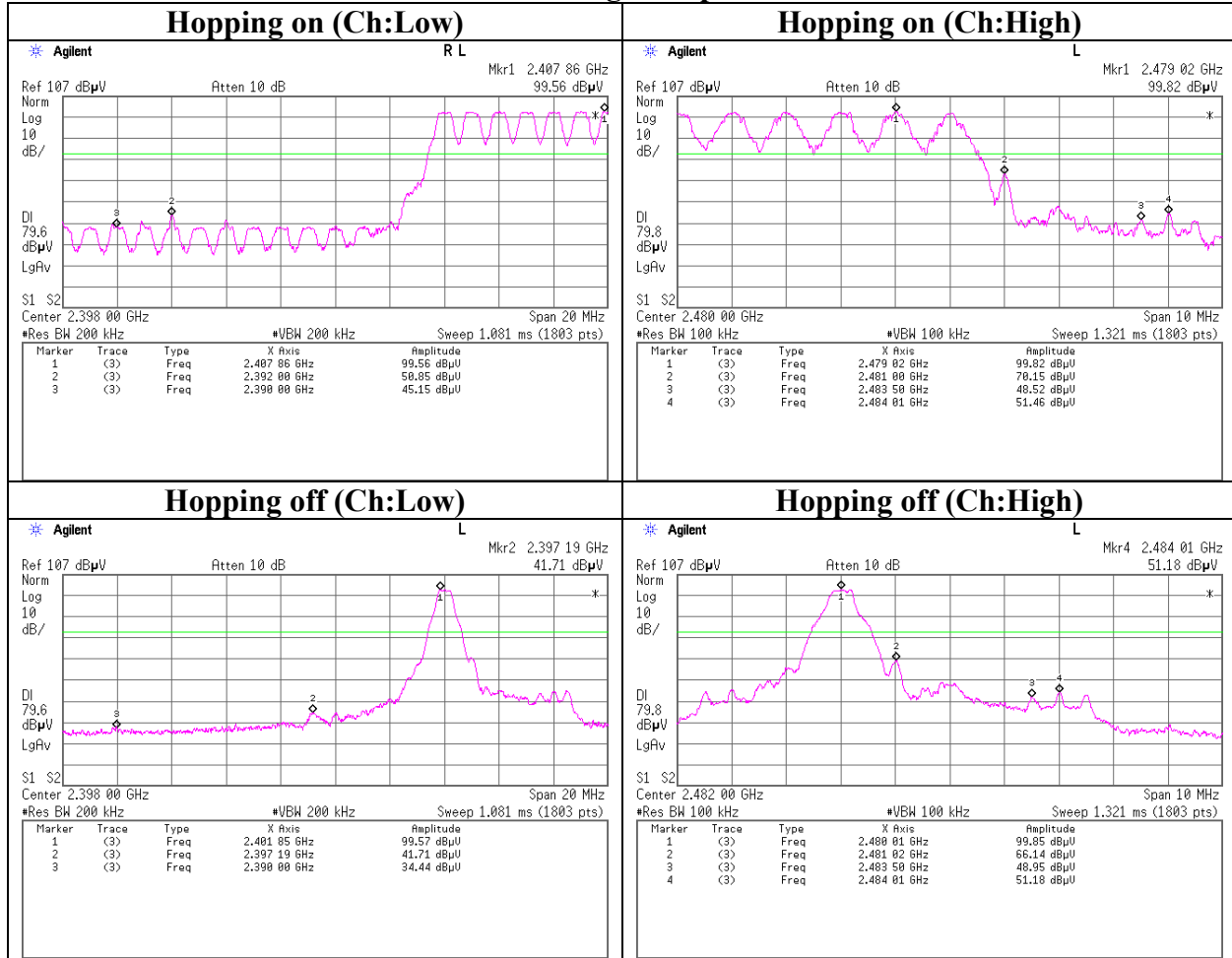


Conducted Spurious Emission (FHSS)

Ch:High



Conducted Spurious Emission (FHSS)
Band Edge compliance



99% Occupied Bandwidth(FHSS)

