



RADIO TEST REPORT

Test Report No. : 27HE0358-HO-A-R1

Applicant : Sharp Corporation,
Communication Systems Group.

Type of Equipment : WCDMA & Tri-band GSM Dual mode
Mobile phone / Bluetooth Enable

Model No. : 816SH

FCC ID : APYHRO00059

Test standard : FCC Part 15 Subpart C
Section 15.207, Section 15.247: 2007

Test Result : Complied

1. This test report shall not be reproduced in full or partial, without the written approval of UL Japan, Inc.
2. The results in this report apply only to the sample tested.
3. This sample tested is in compliance with the above regulation.
4. The test results in this report are traceable to the national or international standards.
5. Original test report number of this report is 27HE0358-HO-A.

Date of test:

May 31 to June 12, 2007

Tested by:

T. Shimada

Takumi Shimada
EMC Services

H. Sato

Hisayoshi Sato
EMC Services

Approved by :

H. Shimoji

Hironobu Shimoji
Assistant Manager of EMC Services



NVLAP LAB CODE: 200572-0

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*As for the range of Accreditation in NVLAP, you may refer to the WEB address, <http://uljapan.co.jp/emc/nvlap.htm>

UL Japan, Inc.

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

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SECTION 1: Client information

Company Name : Sharp Corporation, Communication Systems Group.
Address : 2-13-1 Iida Hachihonmatsu Higashihiroshima-City, Hiroshima
739-0192 Japan
Telephone Number : +81-82-420-1837
Facsimile Number : +81-82-420-1654
Contact Person : Noboru Ueno

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

2.1 Identification of E.U.T.

Type of Equipment : WCDMA & Tri-band GSM Dual mode
Mobile phone / Bluetooth Enable
Model No. : 816SH
Serial No. : 004401/11/058204/2, 004401/11/058192/9
Rating : AC120V/60Hz
Country of Manufacture : Japan
Receipt Date of Sample : May 28, 2007
Condition of EUT : Production prototype
(Not for Sale: This sample is equivalent to mass-produced items.)
Modification of EUT : No modification by the test lab.

2.2 Product Description

Model No: 816SH (referred to as the EUT in this report) is the WCDMA & Tri-band GSM Dual mode
Mobile phone / Bluetooth Enable.
This test report covers only Bluetooth part of the EUT.

<Bluetooth Specification>

Clock frequency(ies) in the system : 26MHz
Equipment Type : Transceiver
Frequency of Operation : 2402-2480MHz
Bandwidth & Channel spacing : 1MHz & 1MHz / CH
Modulation : GFSK, FHSS
Power Supply (inner) : DC2.8V(BT Module only)
DC3.7 - 4.0V (Nominal Voltage)
Antenna Type : Internal antenna
Antenna Connector Type : Spring connector
Antenna Gain : 2.2dBi(max)

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SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification : FCC Part15 Subpart C : 2007
Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators
Section 15.207 Conducted limits : 2007
Section 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz : 2007

FCC 15.31 (e)

This EUT provides stable voltage (DC2.8V) constantly to 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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3.2 Procedures and results

[FHSS]

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst Margin	Results
1	Conducted emission	ANSI C63.4:2003 7. AC powerline conducted emission measurements	Section 15.207	-	N/A	9.7dB 0.18854MHz AV, N	Complied
2	Carrier Frequency Separation	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(a)(1)	Conducted	N/A	See data.	Complied
3	20dB Bandwidth	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(a)(1)	Conducted	N/A		Complied
4	Number of Hopping Frequency	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(a)(1)(iii)	Conducted	N/A		Complied
5	Dwell time	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(a)(1)(iii)	Conducted	N/A		Complied
6	Maximum Peak Output Power	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(b)(1)	Conducted	N/A		Complied
7	Band Edge Compliance	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(d)	Conducted	N/A		Complied
8	Spurious Emission	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247(d)	Conducted/ Radiated	N/A		12.0 dB 24800MHz, Hor/Ver, AV

Note: UL Japan, Inc.'s EMI Work Procedures No.QPM05 and QPM15.

*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.

3.3 Additions or deviations to standards

No addition, deviation, nor exclusion has been made from standards.

3.4 Uncertainty

The following uncertainties have been calculated to provide a confidence level of 95% using a coverage factor k=2.

Conducted Emission

The measurement uncertainty for this test is ± 2.66 dB.

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

Spurious Emission (Radiated)

The measurement uncertainty for this test using Biconical antenna is ± 4.59 dB(3m).

The measurement uncertainty for this test using Logperiodic antenna is ± 4.62 dB(3m).

The measurement uncertainty for this test using Horn antenna is ± 5.27 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 for this test is ± 3.0 dB.

3.5 Test Location

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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	IC4247A	19.2 x 11.2 x 7.7m	7.0 x 6.0m	Preparation room
No.2 semi-anechoic chamber	655103	IC4247A-2	7.5 x 5.8 x 5.2m	4.0 x 4.0m	-
No.3 semi-anechoic chamber	148738	IC4247A-3	12.0 x 8.5 x 5.9m	6.8 x 5.75m	
No.3 shielded room	-	-	4.0 x 6.0 x 2.7m	N/A	-
No.4 semi-anechoic chamber	134570	IC4247A-4	12.0 x 8.5 x 5.9m	6.8 x 5.75m	-
No.4 shielded room	-	-	4.0 x 6.0 x 2.7m	N/A	-
No.5 semi-anechoic chamber	-	-	6.0 x 6.0 x 3.9m	N/A	-
No.6 shielded room	-	-	4.0 x 4.5 x 2.7m	4.75 x 5.4 m	-
No.6 measurement room	-	-	4.75 x 5.4 x 3.0m	4.75 x 4.15 m	-
No.7 shielded room	-	-	4.7 x 7.5 x 2.7m	4.7 x 7.5m	-
No.8 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, No.2, No.3, and No.4 semi-anechoic chambers and No.3 and No.4 shielded rooms.

3.6 Test set up, Test instruments and Data of EMI

Refer to APPENDIX 1 to 3.

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

4.1 Operating Modes

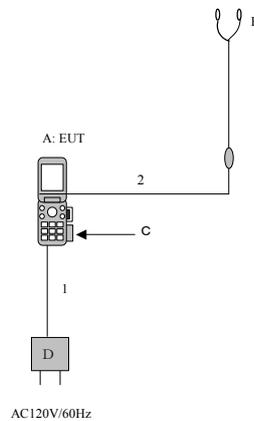
The mode used for test : Transmitting mode (Packet size DH5, Payload: PRBS9)

- Low Channel : 2402MHz
- Mid Channel : 2441MHz
- High Channel : 2480MHz

Inquiry mode

Remarks: Test was not performed at AFH mode, because the decrease of number of channel (min: 20ch) at AFH mode does not influence on the output power and bandwidth of the EUT. However, the limit level 125mWof AFH mode was used for the test.

4.2 Configuration and peripherals



Description of Support equipment

No.	Item	Model number	Serial number	Manufacturer	Remarks
A	WCDMA & Tri-band GSM Dual mode Mobile phone / Bluetooth Enable	816SH	004401/11/058204/2 *1), 004401/11/058192/9 *2)	Sharp Corporation	EUT
B	Stereo Handsfree	RPHOHA018AF	1	HOSIDEN	EUT
C	Rechargeable Lithium-Ion Battery	SHBBE1	QEA	SANYO	EUT
D	AC Charger	XN-1QC83	QDA	HOSIDEN	EUT

*1) Used for Antenna Terminal tests

*2) Used for Conducted and Radiated emission tests

List of cables used

No.	Name	Length (m)	Shield	
			Cable	Connector
1	Cable for AC Charger	1.8	Unshielded	Unshielded
2	Cable for Stereo Handsfree	1.7	Unshielded	Unshielded

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Facsimile : +81 596 24 8124

SECTION 5: Conducted Emission

Test Procedure and conditions

EUT was placed on a urethane platform of nominal size, 1.0m by 1.0m, 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.

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.

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

The EUT was connected to a LISN (AMN).

An overview sweep with peak detection has been performed.

Detector : quasi-peak and average detector (IF BW 9 kHz)
Measurement range : 0.15-30MHz
Test data : APPENDIX 2
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 2

Test result : Pass

[Radiated]

Test Procedure

EUT was placed on a urethane platform of nominal size, 1.0m by 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 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.

20dBc was applied to the frequency over the limit of FCC 15.209 and outside the restricted band of FCC15.205.

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.

Test data : APPENDIX 2

Test result : Pass

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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 2
Test result : Pass

SECTION 8: Maximum Peak Output Power

Test Procedure

The Maximum Peak Output Power was measured with a power meter (tested bandwidth: 50MHz) connected to the antenna port.

Test data : APPENDIX 2
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 2
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 2
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 2
Test result : Pass

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

Telephone : +81 596 24 8116

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APPENDIX 1: Photographs of test setup

Conducted Emission

This page has been submitted for a separate exhibit.

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Spurious Emission (Radiated)

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4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
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Worst Case Position (Horizontal: Y-axis/ Vertical:Z-axis)

This page has been submitted for a separate exhibit.

APPENDIX 2: Data of EMI test

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 4 Semi Anechoic Chamber
 Date : 2007/06/12

Company	: Sharp Corporation	Report No.	: 27HE0358-H0
Kind of EUT	: WCDMA & Tri-band GSM Dual mode Mobile phone / Bluetooth Enable	Power	: AC120V / 60Hz
Model No.	: 816SH	Temp./Humi.	: 25deg.C / 60%
Serial No.	: Q04401/11/058192/9	Operator	: Takumi Shimada
Mode / Remarks	: Tx 2402MHz DHS		

LIMIT : FCC15. 207 QP
 FCC15. 207 AV

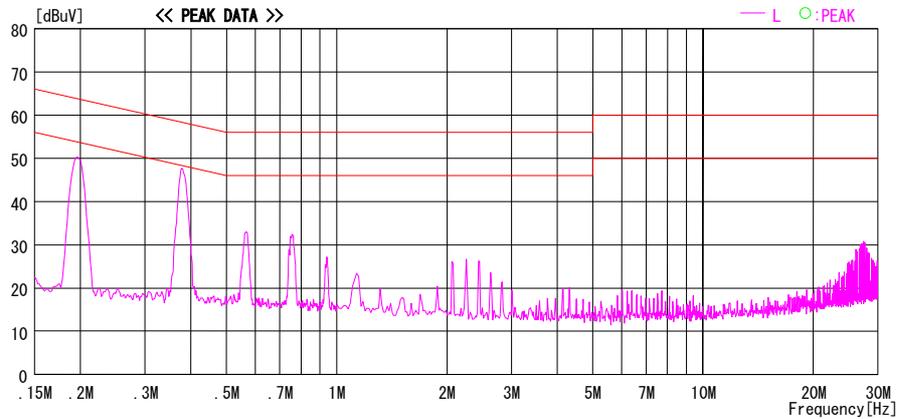
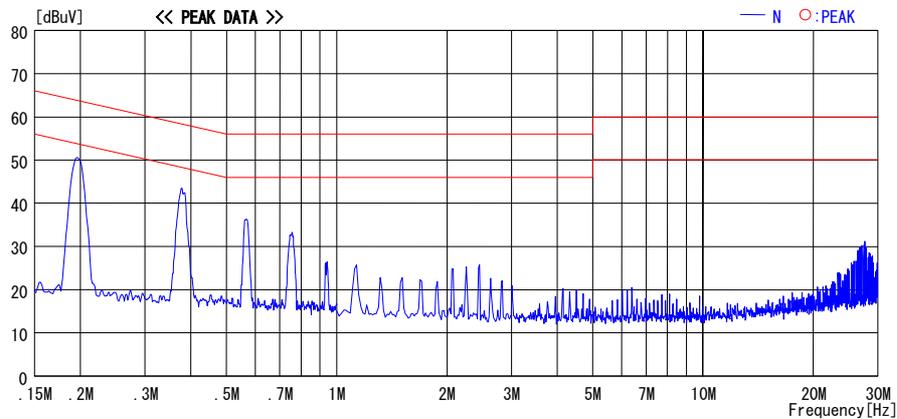


CHART: WITH FACTOR, Peak hold data. CALCURATION: RESULT [dBuV] = READING [dBuV] + C. F [dB] (LISN LOSS + CABLE LOSS)
 Except for the above table : adequate margin data below the limits.

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Head Office EMC Lab.
 4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
 Telephone : +81 596 24 8116
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Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2007/06/12

Company : Sharp Corporation
 Kind of EUT : WCDMA & Tri-band GSM Dual mode Mobile phone / Bluetooth Enable
 Model No. : 816SH
 Serial No. : 004401/11/058192/9
 Mode / Remarks : Tx 2441MHz DH5

Report No. : 27HE0358-HO
 Power : AC120V / 60Hz
 Temp./Humi. : 25deg. C / 60%
 Operator : Takumi Shimada

LIMIT : FCC15.207 QP
 FCC15.207 AV

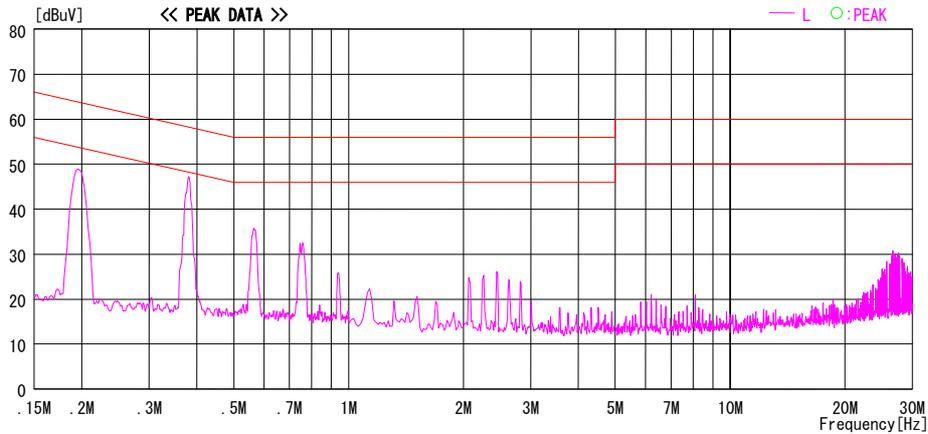
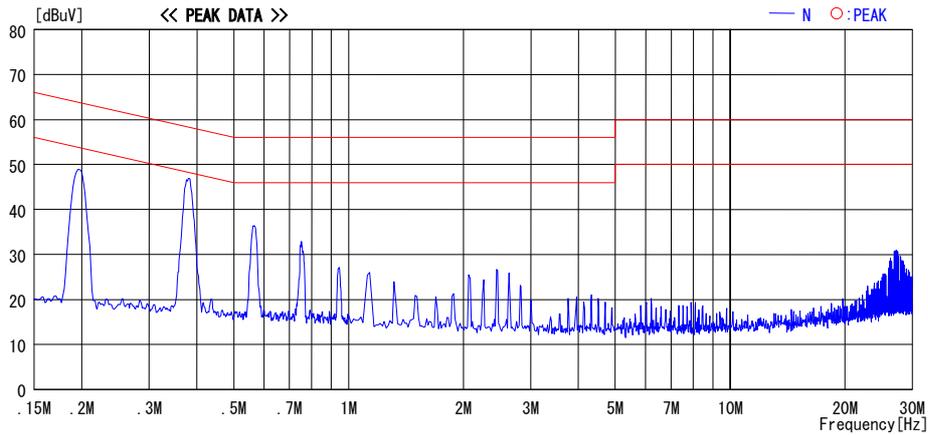


CHART: WITH FACTOR, Peak hold data. CALORATION: RESULT [dBuV]=READING [dBuV]+C.F [dB] (LISN LOSS+CABLE LOSS)
 Except for the above table : adequate margin data below the limits.

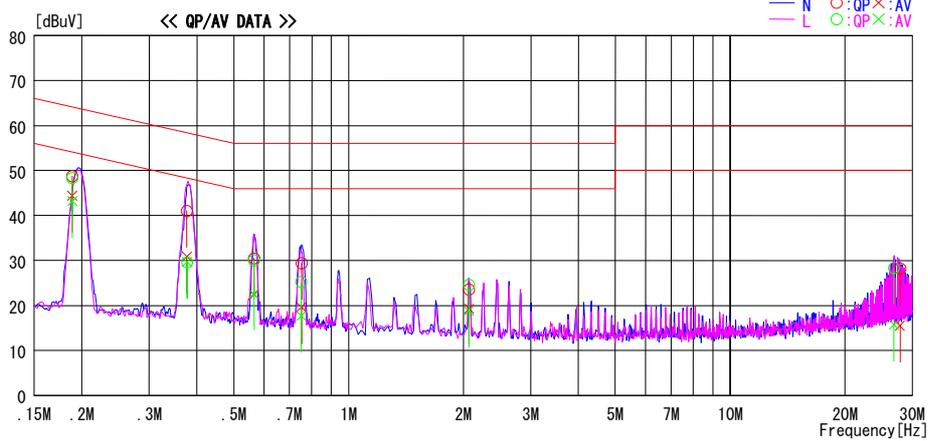
Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2007/06/12

Company : Sharp Corporation	Report No. : 27HE0358-HO
Kind of EUT : WCDMA & Tri-band GSM Dual mode Mobile phone / Bluetooth Enable	Power : AC120V / 60Hz
Model No. : 816SH	Temp./Humi. : 25deg. C / 60%
Serial No. : 004401/11/058192/9	Operator : Takumi Shimada
Mode / Remarks : Tx 2480MHz DH5	

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.18854	48.3	44.0	0.4	48.7	44.4	64.1	54.1	15.4	9.7	N
0.37650	40.7	30.4	0.4	41.1	30.8	58.4	48.4	17.3	17.6	N
0.56525	30.1	22.0	0.4	30.5	22.4	56.0	46.0	25.5	23.6	N
0.75209	29.0	19.2	0.4	29.4	19.6	56.0	46.0	26.6	26.4	N
2.06784	22.8	18.6	0.7	23.5	19.3	56.0	46.0	32.5	26.7	N
27.87540	22.0	9.3	6.2	28.2	15.5	60.0	50.0	31.8	34.5	N
0.18885	47.9	42.8	0.4	48.3	43.2	64.1	54.1	15.8	10.9	L
0.37683	29.2	29.3	0.4	29.6	29.7	58.3	48.3	28.7	18.6	L
0.56458	29.7	22.2	0.4	30.1	22.6	56.0	46.0	25.9	23.4	L
0.75128	24.8	17.3	0.4	25.2	17.7	56.0	46.0	30.8	28.3	L
2.06717	23.9	18.1	0.7	24.6	18.8	56.0	46.0	31.4	27.2	L
26.87550	22.4	9.7	6.0	28.4	15.7	60.0	50.0	31.6	34.3	L

CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT [dBuV] = READING [dBuV] + C. F [dB] (LISN LOSS + CABLE LOSS)
Except for the above table : adequate margin data below the limits.

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

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Carrier Frequency Separation

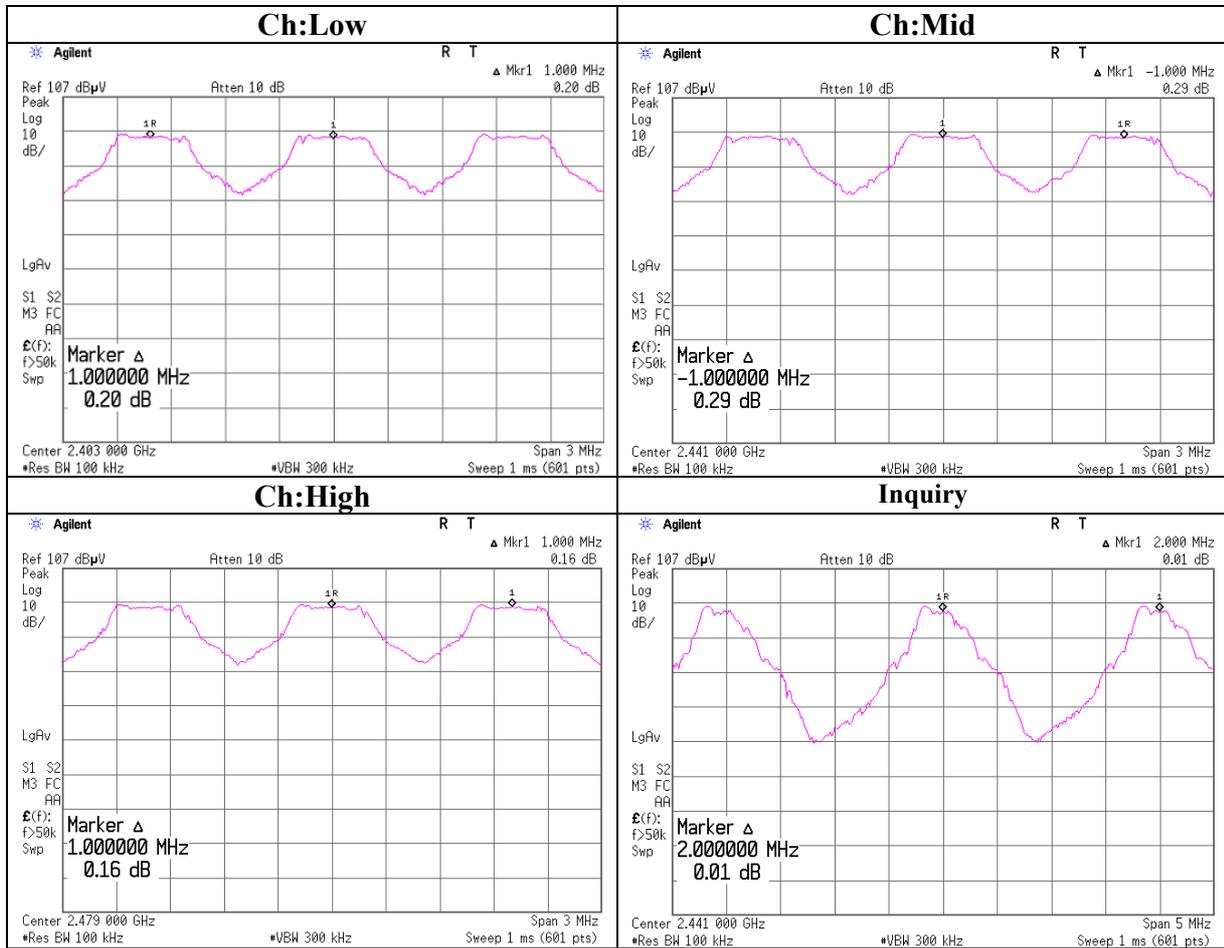
UL Japan, Inc.
 Head Office EMC Lab. No.7 Shielded Room

COMPANY	: Sharp Corporation	REGULATION	: FCC15.247(a)(1)/RSS-210A8.1(2)
EQUIPMENT	: WCDMA & Tri-band GSM Dual mode Mobile phone / Bluetooth Enable	TEST DISTANCE	: -
MODEL	: 816SH	DATE	: 06/11/2007
S/N	: 004401/11/058204/2	TEMPERATURE	: 24deg.C
POWER	: AC120V / 60Hz	HUMIDITY	: 49%
MODE	: Tx(Hopping on)/Inquiry	ENGINEER	: Hisayoshi Sato

Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.000	> 0.623 MHz (two-thirds of the 20dB Bandwidth (0.935[MHz])) or 25[kHz](whichever is greater)
Mid	2441.0	1.000	>0.634 MHz (two-thirds of the 20dB Bandwidth (0.955[MHz])) or 25[kHz](whichever is greater)
High	2480.0	1.000	> 0.623 MHz (two-thirds of the 20dB Bandwidth (0.935[MHz])) or 25[kHz](whichever is greater)
Inquiry	2441.0	2.000	> 0.557MHz (two-thirds of the 20dB Bandwidth (0.835[MHz])) or 25[kHz](whichever is greater)

UL Japan, Inc.
Head Office EMC Lab.
 4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
 Telephone : +81 596 24 8116
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Carrier Frequency Separation



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20dB Bandwidth

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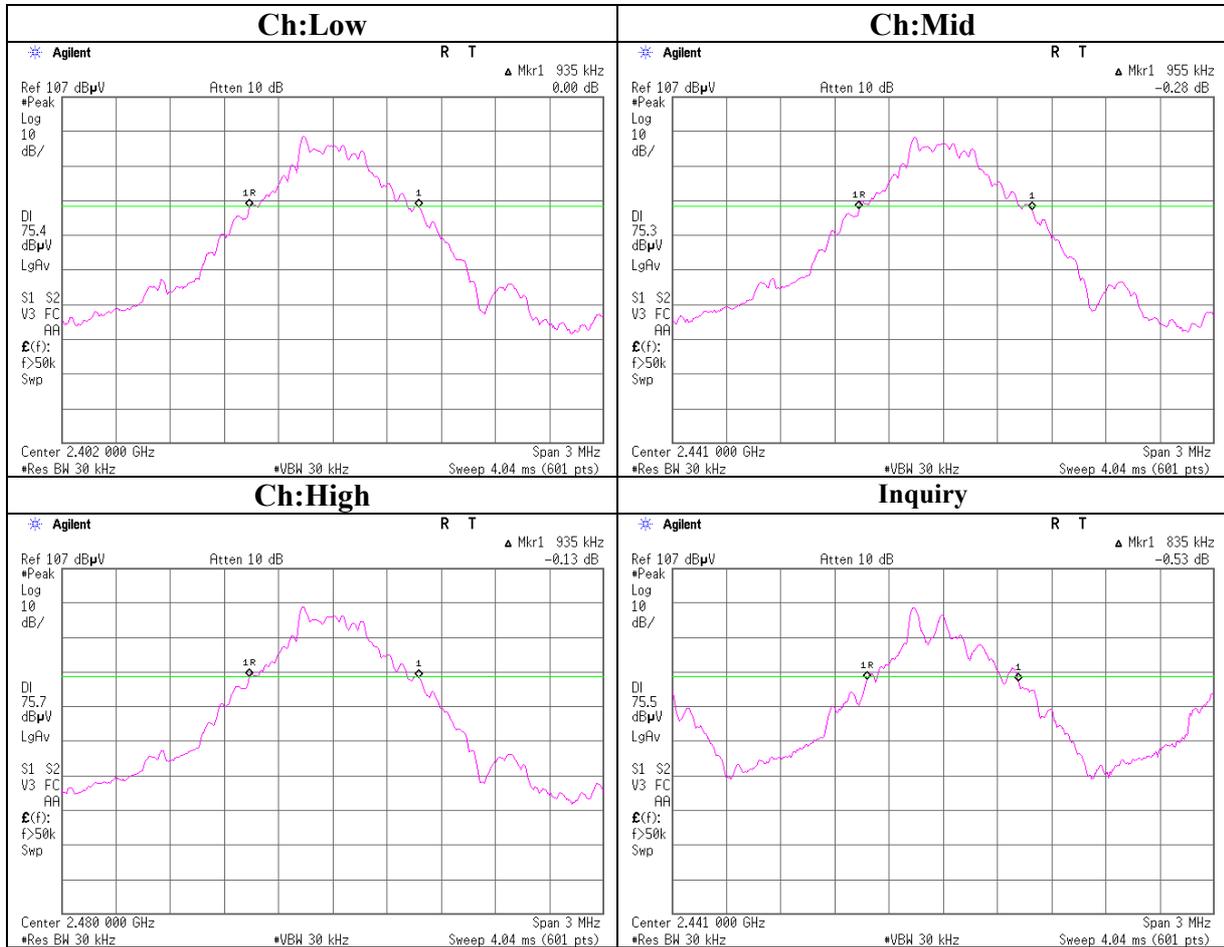
COMPANY : Sharp Corporation
EQUIPMENT : WCDMA & Tri-band GSM Dual mode
 Mobile phone/ Bluetooth Enable
MODEL : 816SH
S/N : 004401/11/058204/2
POWER : AC120V / 60Hz
MODE : Tx (Hopping off) /Inquiry

REGULATION : FCC15.247(a)(1)/RSS-210A8.1(1)
TEST DISTANCE : -
DATE : 06/11/2007
TEMPERATURE : 24deg.C
HUMIDITY : 49%
ENGINEER : Hisayoshi Sato

Ch	Freq. [MHz]	20dB Bandwidth [MHz]	Limit [MHz]
Low	2402.0	0.935	-
Mid	2441.0	0.955	-
High	2480.0	0.935	-
Inquiry	2441.0	0.835	-

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
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20dB Bandwidth



Number of Hopping Frequency

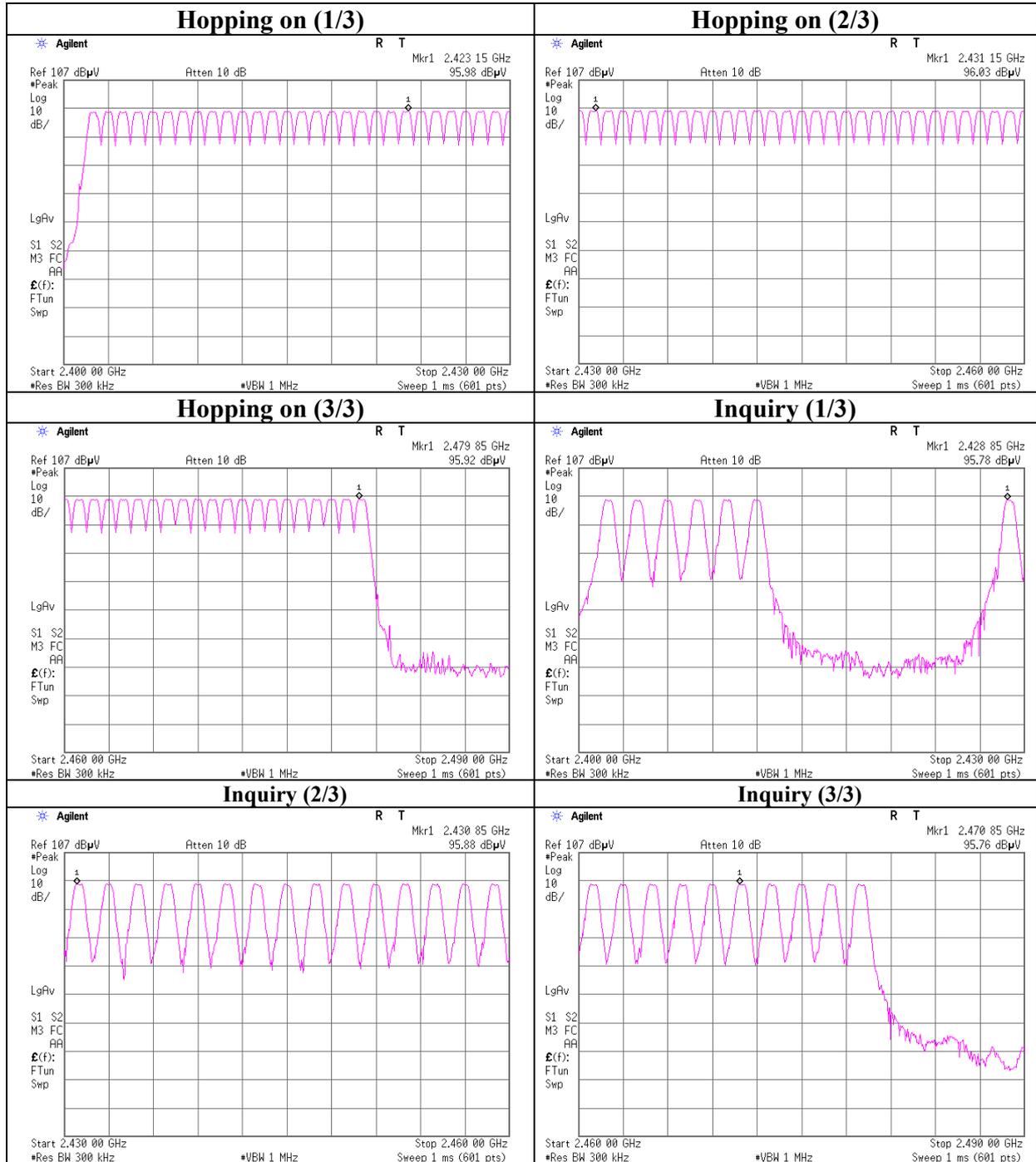
UL Japan, Inc.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	: Sharp Corporation	REGULATION	: FCC15.247(a)(1)(iii)/RSS-210A8.1(4)
EQUIPMENT	: WCDMA & Tri-band GSM Dual mode Mobile phone / Bluetooth Enable	TEST DISTANCE	: -
MODEL	: 816SH	DATE	: 06/11/2007
S/N	: 004401/11/058204/2	TEMPERATURE	: 24deg.C
POWER	: AC120V / 60Hz	HUMIDITY	: 49%
MODE	: Tx (Hopping on) /Inquiry	ENGINEER	: Hisayoshi Sato

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

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

Number of Hopping Frequency



Dwell time

UL Japan, Inc.
Head Office EMC Lab. No.7 Shielded Room

COMPANY : Sharp Corporation
EQUIPMENT : WCDMA & Tri-band GSM Dual mode
 Mobile phone/ Bluetooth Enable
MODEL : 816SH
S/N : 004401/11/058204/2
POWER : AC120V / 60Hz
MODE : Tx (Hopping on) /Inquiry

REGULATION : FCC15.247(a)(1)(iii)/RSS-210A8.1(4)
TEST DISTANCE : -
DATE : 06/11/2007
TEMPERATURE : 24deg.C
HUMIDITY : 49%
ENGINEER : Hisayoshi Sato

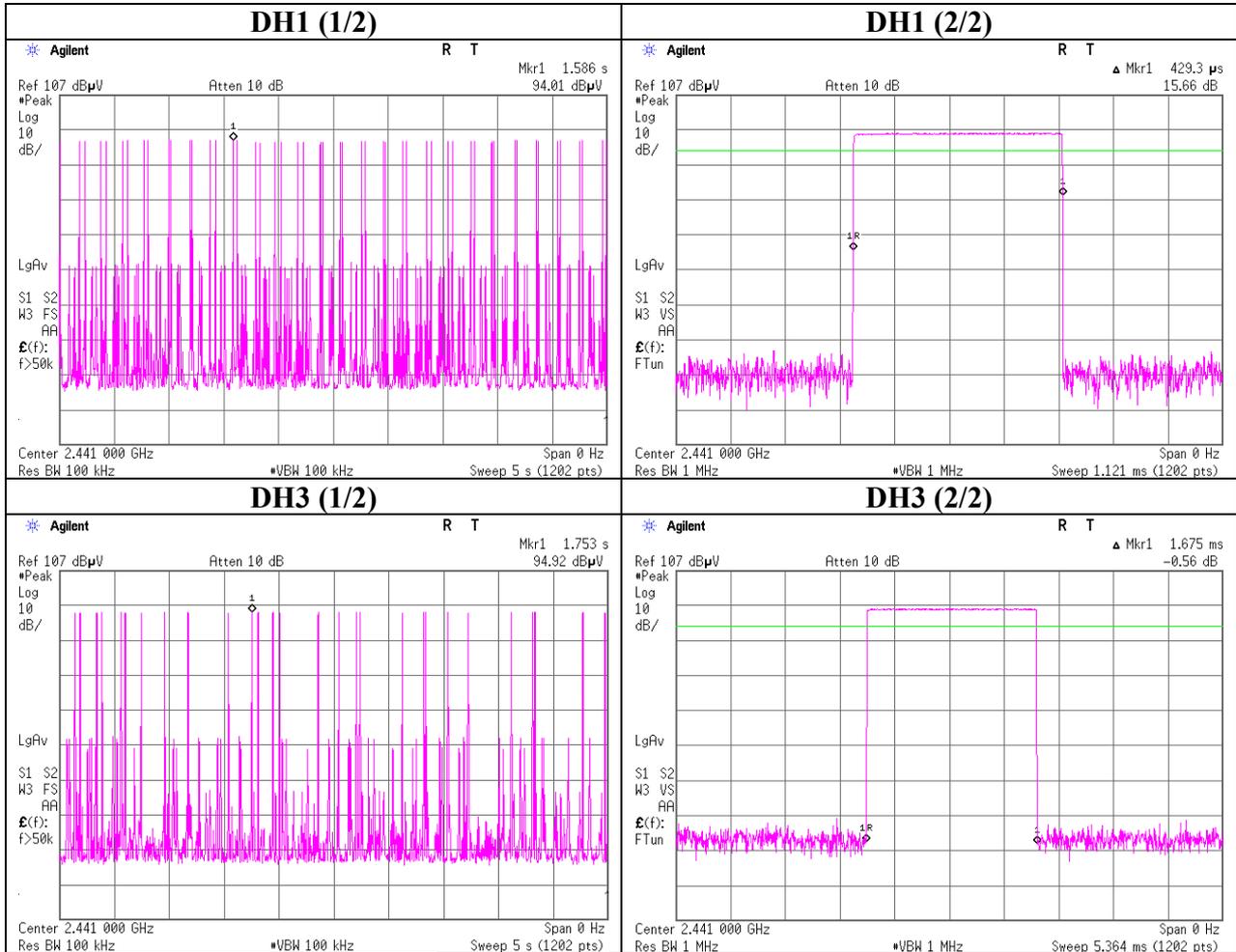
Mode	Number of transmission in a 31.6(79 Hopping x 0.4) / 12.8(32 Hopping x 0.4)second period	Length of transmission time [msec]	Result [msec]	Limit [msec]
DH1	46 times / 5 sec. x 31.6 sec. = 291 times	0.429	125	400
DH3	25 times / 5 sec. x 31.6 sec. = 158 times	1.675	265	400
DH5	18 times / 5 sec. x 31.6 sec. = 114 times	2.950	336	400
Inquiry	100 times / 1 sec. x 12.8 sec. = 1280 times	0.135	173	400

DH1 Average 1:45 2:47 3:46 4:45 5:48

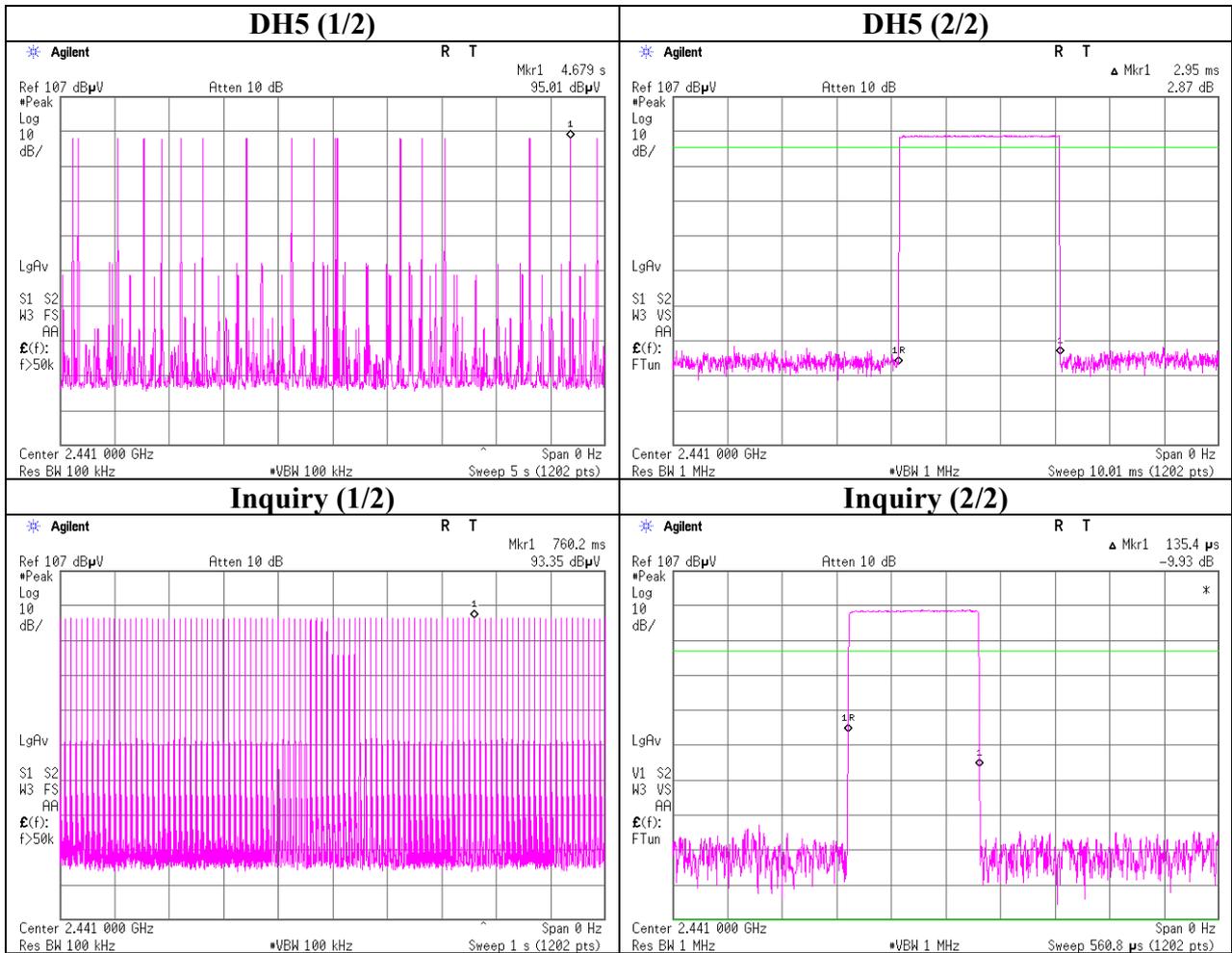
DH3 Average 1:27 2:25 3:23 4:27 5:24

DH5 Average 1:18 2:17 3:19 4:19 5:16

Dwell time



Dwell time



Maximum Peak Output Power

UL Japan, Inc.
Head Office EMC Lab. No.7 Shielded Room

COMPANY : Sharp Corporation
EQUIPMENT : WCDMA & Tri-band GSM Dual mode Mobile phone / Bluetooth Enable
MODEL : 816SH
S/N : 004401/11/058204/2
POWER : AC120V / 60Hz
MODE : Tx(Hopping Off)/Inquiry
REGULATION : FCC15.247(b)(1)/RSS-210A8.4(2)
TEST DISTANCE : -
DATE : 06/11/2007
TEMPERATURE : 24deg.C
HUMIDITY : 49%
ENGINEER : Hisayoshi Sato

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	-9.52	0.15	10.02	0.65	1.16	20.96	125	20.31
Mid	2441.0	-9.44	0.15	10.02	0.73	1.18	20.96	125	20.23
High	2480.0	-9.50	0.15	10.02	0.67	1.17	20.96	125	20.29
Inquiry	2441.0	-9.52	0.15	10.02	0.65	1.16	20.96	125	20.31

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.

Radiated Spurious Emission (below 1GHz)
Tx, Ch. Low

DATA OF RADIATED EMISSION TEST

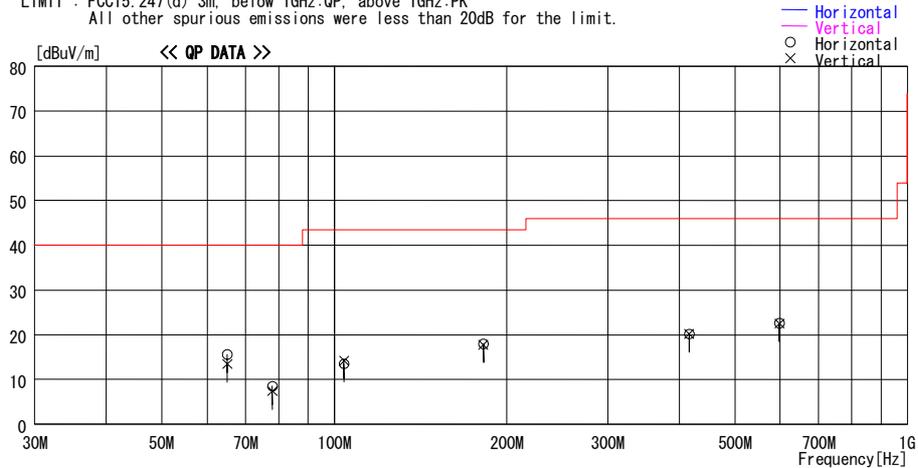
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/06/04

Company : Sharp Corporation
Kind of EUT : WCDMA & Tri-band GSM Dual mode Mobile phone / Bluetooth Enable
Model No. : 816SH
Serial No. : 004401/11/058192/9

Report No. : 27HE0358-HO
Power : AC120V / 60Hz
Temp./Humi. : 24deg.C / 59%
Operator : Takumi Shimada

Mode / Remarks : Tx 2402MHz DH5 Worst-axis Hori:Y, Vert:Z

LIMIT : FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBUV]	DET	Antenna		Level [dBUV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBUV/m]	Margin [dB]
			Factor [dB/m]	Loss& Gain [dB]						
65.044	27.5	QP	7.6	-21.7	13.4	0	290	Vert.	40.0	26.6
65.046	29.7	QP	7.6	-21.7	15.6	270	400	Hori.	40.0	24.4
78.000	23.2	QP	6.7	-21.4	8.5	270	214	Hori.	40.0	31.5
78.000	22.1	QP	6.7	-21.4	7.4	0	100	Vert.	40.0	32.6
104.000	24.8	QP	10.7	-21.3	14.2	90	100	Vert.	43.5	29.3
104.000	24.1	QP	10.7	-21.3	13.5	310	260	Hori.	43.5	30.0
182.000	21.5	QP	16.6	-20.2	17.9	0	300	Hori.	43.5	25.6
182.000	21.4	QP	16.6	-20.2	17.8	130	100	Vert.	43.5	25.8
416.000	21.6	QP	18.0	-19.4	20.2	0	100	Hori.	46.0	25.8
416.000	21.6	QP	18.0	-19.4	20.2	0	100	Vert.	46.0	25.8
598.000	22.2	QP	19.5	-19.1	22.6	0	100	Hori.	46.0	23.4
598.000	22.1	QP	19.5	-19.1	22.5	0	100	Vert.	46.0	23.5

CHART: WITH FACTOR ANT TYPE: -30MHz: LOOP, 30-300MHz: BICONICAL, 300MHz-1000MHz: LOGPERIODIC, 1000MHz-: HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

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

Radiated Spurious Emission (below 1GHz)
Tx, Ch. Mid

DATA OF RADIATED EMISSION TEST

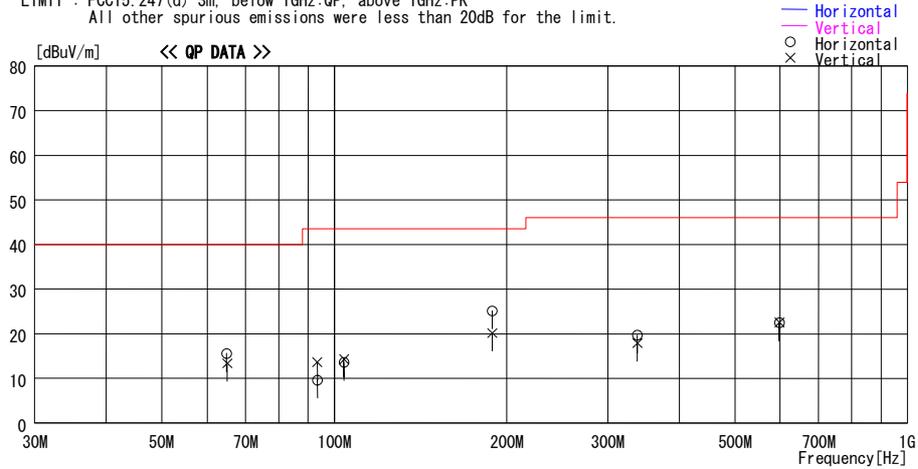
UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2007/06/04

Company : Sharp Corporation
 Kind of EUT : WCDMA & Tri-band GSM Dual mode Mobile phone / Bluetooth Enable
 Model No. : 816SH
 Serial No. : 004401/11/058192/9

Report No. : 27HE0358-HO
 Power : AC120V / 60Hz
 Temp./Humi. : 24deg. C / 59%
 Operator : Takumi Shimada

Mode / Remarks : Tx 2441MHz DH5 Worst-axis Hori:Y, Vert:Z

LIMIT : FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:PK
 All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss& Gain [dB]						
64.830	29.7	QP	7.6	-21.7	15.6	251	400	Hori.	40.0	24.4
65.044	27.5	QP	7.6	-21.7	13.4	0	280	Vert.	40.0	26.6
93.389	22.5	QP	8.4	-21.3	9.6	0	280	Hori.	43.5	33.9
93.389	26.5	QP	8.4	-21.3	13.6	49	122	Vert.	43.5	29.9
104.000	24.9	QP	10.7	-21.3	14.3	90	100	Vert.	43.5	29.2
104.000	24.2	QP	10.7	-21.3	13.6	322	280	Hori.	43.5	29.9
188.625	28.3	QP	16.9	-20.1	25.1	28	160	Hori.	43.5	18.4
188.633	23.4	QP	16.9	-20.1	20.2	352	100	Vert.	43.5	23.3
338.000	21.2	QP	15.9	-19.2	17.9	0	100	Vert.	46.0	28.1
338.000	23.0	QP	15.9	-19.2	19.7	0	100	Hori.	46.0	26.3
598.000	22.1	QP	19.5	-19.1	22.5	0	100	Hori.	46.0	23.5
598.000	22.1	QP	19.5	-19.1	22.5	0	100	Vert.	46.0	23.5

CHART: WITH FACTOR ANT TYPE: -30MHz: LOOP, 30-300MHz: BICONICAL, 300MHz-1000MHz: LOGPERIODIC, 1000MHz-: HORN
 CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

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

UL Japan, Inc.
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

Radiated Spurious Emission (below 1GHz)
Tx, Ch. High

DATA OF RADIATED EMISSION TEST

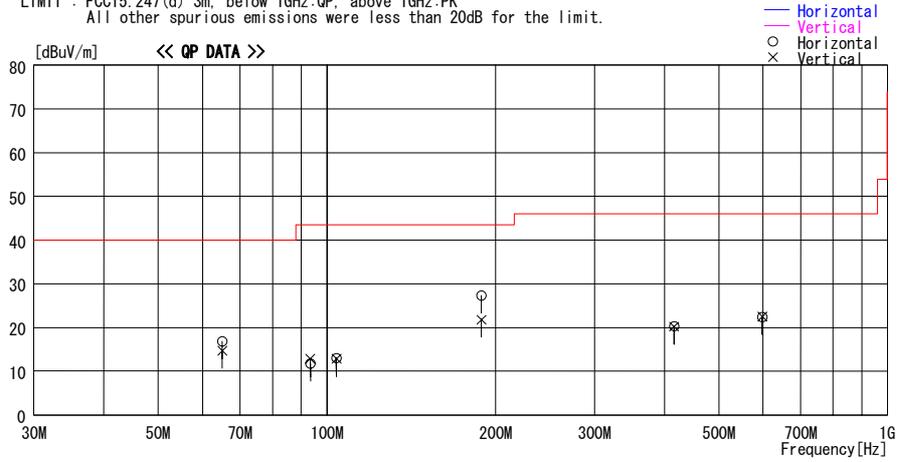
UL Japan, Inc. Head Office EMC Lab. No. 2 Semi Anechoic Chamber
Date : 2007/06/04

Company : Sharp Corporation
Kind of EUT : WCDMA & Tri-band GSM Dual mode Mobile phone / Bluetooth Enable
Model No. : 816SH
Serial No. : 004401/11/058192/9

Report No. : 27HE0358-HO
Power : AC120V / 60Hz
Temp./Humi. : 24deg.C / 59%
Operator : Takumi Shimada

Mode / Remarks : Tx 2480MHz DH5 Worst-axis Hori:Y, Vert:Z

LIMIT : FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:PK
All other spurious emissions were less than 20dB for the limit.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss& Gain [dB]						
65.044	30.9	QP	7.6	-21.7	16.8	281	400	Hori.	40.0	23.2
65.044	28.8	QP	7.6	-21.7	14.7	0	270	Vert.	40.0	25.3
93.389	24.6	QP	8.4	-21.3	11.7	0	250	Hori.	43.5	31.8
93.389	25.7	QP	8.4	-21.3	12.8	242	117	Vert.	43.5	30.7
104.000	23.6	QP	10.7	-21.3	13.0	320	268	Hori.	43.5	30.5
104.000	23.4	QP	10.7	-21.3	12.8	120	100	Vert.	43.5	30.7
188.627	30.5	QP	16.9	-20.1	27.3	36	170	Hori.	43.5	16.2
188.627	25.0	QP	16.9	-20.1	21.8	339	100	Vert.	43.5	21.7
416.000	21.7	QP	18.0	-19.4	20.3	0	100	Hori.	46.0	25.7
416.000	21.6	QP	18.0	-19.4	20.2	0	100	Vert.	46.0	25.8
598.000	22.1	QP	19.5	-19.1	22.5	0	100	Vert.	46.0	23.5
598.000	22.0	QP	19.5	-19.1	22.4	0	100	Hori.	46.0	23.6

CHART: WITH FACTOR ANT TYPE: -30MHz: LOOP, 30-300MHz: BICONICAL, 300MHz-1000MHz: LOGPERIODIC, 1000MHz-: HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

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

Radiated Spurious Emission (above 1GHz)
Tx, Ch. Low

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber
Regulation FCC15.247(d)
Test Distance 3m / 1m
Date 05/31/2007
Temperature 23deg.C.
Humidity 58%
Engineer Takumi Shimada

Company Sharp Corporation
Equipment WCDMA & Tri-band GSM Dual mode Mobile phone / Bluetooth Enable
Model 816SH
S/N 004401/11/058192/9
Power AC 120V / 60Hz
Mode Tx 2402MHz
Position H: Y-axis, V: Z-axis

(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
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.00	46.0	44.8	26.6	32.1	2.5	0.0	43.0	41.8	73.9	30.9	32.1
2*	2400.00	69.4	68.5	26.6	32.1	2.5	0.0	66.4	65.5	73.9	-	-
3	4804.00	45.8	45.4	30.8	31.2	3.4	0.7	49.5	49.1	73.9	24.4	24.8
4	7206.00	42.8	42.7	35.1	32.5	4.2	0.4	50.0	49.9	73.9	23.9	24.0
5	9608.00	43.0	42.6	37.6	32.8	5.3	0.7	53.8	53.4	73.9	20.1	20.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12010.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	14412.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	16814.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	19216.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	21618.00	NS	NS	-	-	-	-	-	-	73.9	-	-
11	24020.00	48.5	48.8	38.7	32.2	8.1	0.0	53.6	53.9	73.9	20.3	20.0

* Reference data

(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	2390.00	33.8	33.5	26.6	32.1	2.5	0.0	30.8	30.5	53.9	23.1	23.4
2*	2400.00	42.7	41.7	26.6	32.1	2.5	0.0	39.7	38.7	53.9	-	-
3	4804.00	36.1	35.0	30.8	31.2	3.4	0.7	39.8	38.7	53.9	14.1	15.2
4	7206.00	30.8	30.7	35.1	32.5	4.2	0.4	38.0	37.9	53.9	15.9	16.0
5	9608.00	30.8	30.8	37.6	32.8	5.3	0.7	41.6	41.6	53.9	12.3	12.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12010.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	14412.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	16814.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	19216.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	21618.00	NS	NS	-	-	-	-	-	-	53.9	-	-
11	24020.00	35.4	35.4	38.7	32.2	8.1	0.0	40.5	40.5	53.9	13.4	13.4

* Reference data

(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
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
0	2402.00	97.6	96.7	26.6	32.1	2.5	0.0	94.6	93.7	-	-	-
2	2400.00	47.7	46.7	26.6	32.1	2.5	0.0	44.7	43.7	Funda-20dB	29.9	30.0

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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

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

*NS: Non Signal

Radiated Spurious Emission (above 1GHz)
Tx, Ch. Mid

Company Sharp Corporation
Equipment WCDMA & Tri-band GSM Dual mode
Mobile phone / Bluetooth Enable
Model 816SH
S/N 004401/11/058192/9
Power AC 120V / 60Hz
Mode Tx 2441MHz
Position H: Y-axis, V: Z-axis

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber
Regulation FCC15.247(d)
Test Distance 3m / 1m
Date 05/31/2007
Temperature 23deg.C.
Humidity 58%
Engineer Takumi Shimada

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	4884.00	46.1	47.2	31.0	31.2	3.4	0.7	50.0	51.1	73.9	23.9	22.8
2	7323.00	43.9	43.2	35.4	32.5	4.3	0.4	51.5	50.8	73.9	22.4	23.1
3	9764.00	42.4	42.4	37.6	32.9	5.4	0.6	53.1	53.1	73.9	20.8	20.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12205.00	NS	NS	-	-	-	-	-	-	73.9	-	-
5	14646.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	17087.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	19528.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	21969.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	24410.00	49.6	49.8	38.8	32.2	8.2	0.0	54.9	55.1	73.9	19.0	18.8

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	4884.00	36.3	36.7	31.0	31.2	3.4	0.7	40.2	40.6	53.9	13.7	13.3
2	7323.00	31.4	31.1	35.4	32.5	4.3	0.4	39.0	38.7	53.9	14.9	15.2
3	9764.00	30.5	30.5	37.6	32.9	5.4	0.6	41.2	41.2	53.9	12.7	12.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12205.00	NS	NS	-	-	-	-	-	-	53.9	-	-
5	14646.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	17087.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	19528.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	21969.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	24410.00	35.5	35.6	38.8	32.2	8.2	0.0	40.8	40.9	53.9	13.1	13.0

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*The limit is rounded down to one decimal place.
*The test result is round off to one or two decimal places, so some differences might be observed.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.
*NS: Non Signal

Radiated Spurious Emission (above 1GHz)
Tx, Ch. High

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber
Regulation FCC15.247(d)
Test Distance 3m / 1m
Date 05/31/2007
Temperature 23deg.C.
Humidity 58%
Engineer Takumi Shimada

Company Sharp Corporation
Equipment WCDMA & Tri-band GSM Dual mode
Mobile phone / Bluetooth Enable
Model 816SH
S/N 004401/11/058192/9
Power AC 120V / 60Hz
Mode Tx 2480MHz
Position H: Y-axis, V: Z-axis

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

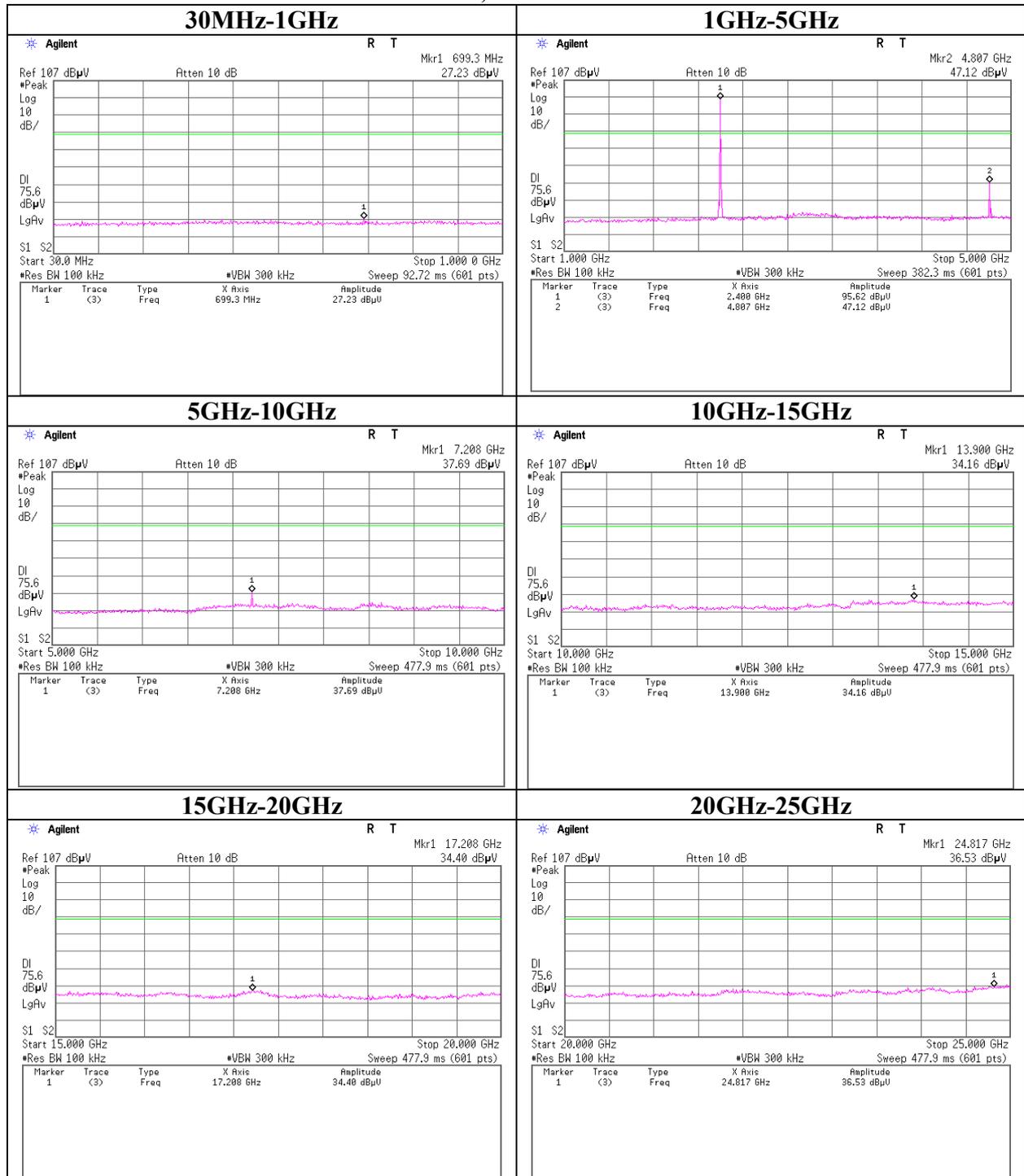
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.50	55.3	54.1	26.8	32.1	2.6	0.0	52.6	51.4	73.9	21.3	22.5
2	4960.00	44.7	46.8	31.1	31.2	3.4	0.7	48.7	50.8	73.9	25.2	23.1
3	7440.00	44.0	44.1	35.6	32.6	4.3	0.5	51.8	51.9	73.9	22.1	22.0
4	9920.00	43.5	43.4	37.7	32.9	5.4	0.6	54.3	54.2	73.9	19.6	19.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12400.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	14880.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	17360.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	19840.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	22320.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	24800.00	50.3	50.2	38.9	32.2	8.3	0.0	55.8	55.7	73.9	18.1	18.2

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

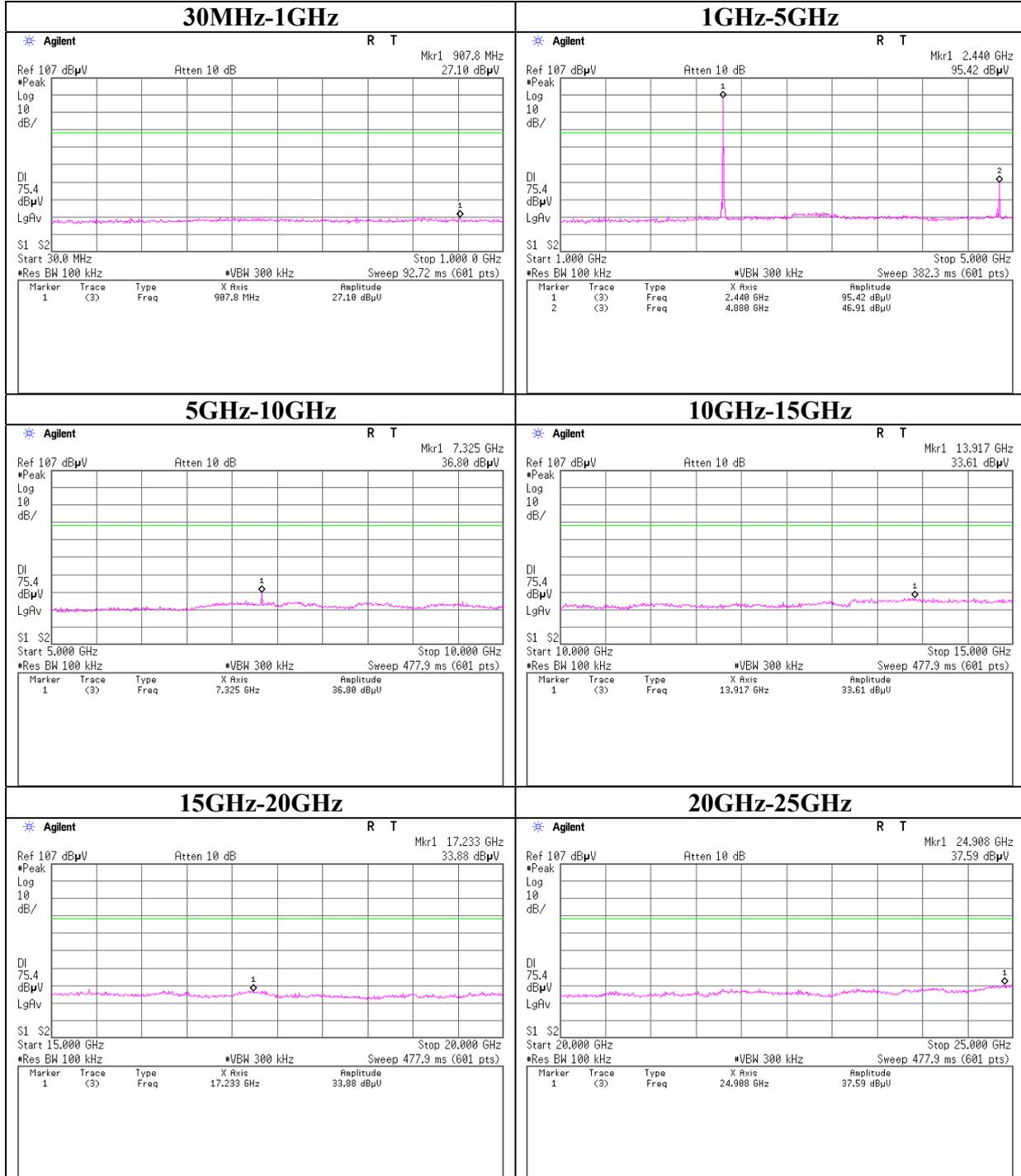
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.50	33.8	33.1	26.8	32.1	2.6	0.0	31.1	30.4	53.9	22.8	23.5
2	4960.00	33.2	37.5	31.1	31.2	3.4	0.7	37.2	41.5	53.9	16.7	12.4
3	7440.00	31.6	32.2	35.6	32.6	4.3	0.5	39.4	40.0	53.9	14.5	13.9
4	9920.00	31.0	31.0	37.7	32.9	5.4	0.6	41.8	41.8	53.9	12.1	12.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12400.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	14880.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	17360.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	19840.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	22320.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	24800.00	36.4	36.4	38.9	32.2	8.3	0.0	41.9	41.9	53.9	12.0	12.0

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*The limit is rounded down to one decimal place.
*The test result is round off to one or two decimal places, so some differences might be observed.
*Hi-Pass Filter was not used for factor 0.0dB of the above table.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.
*NS: Non Signal

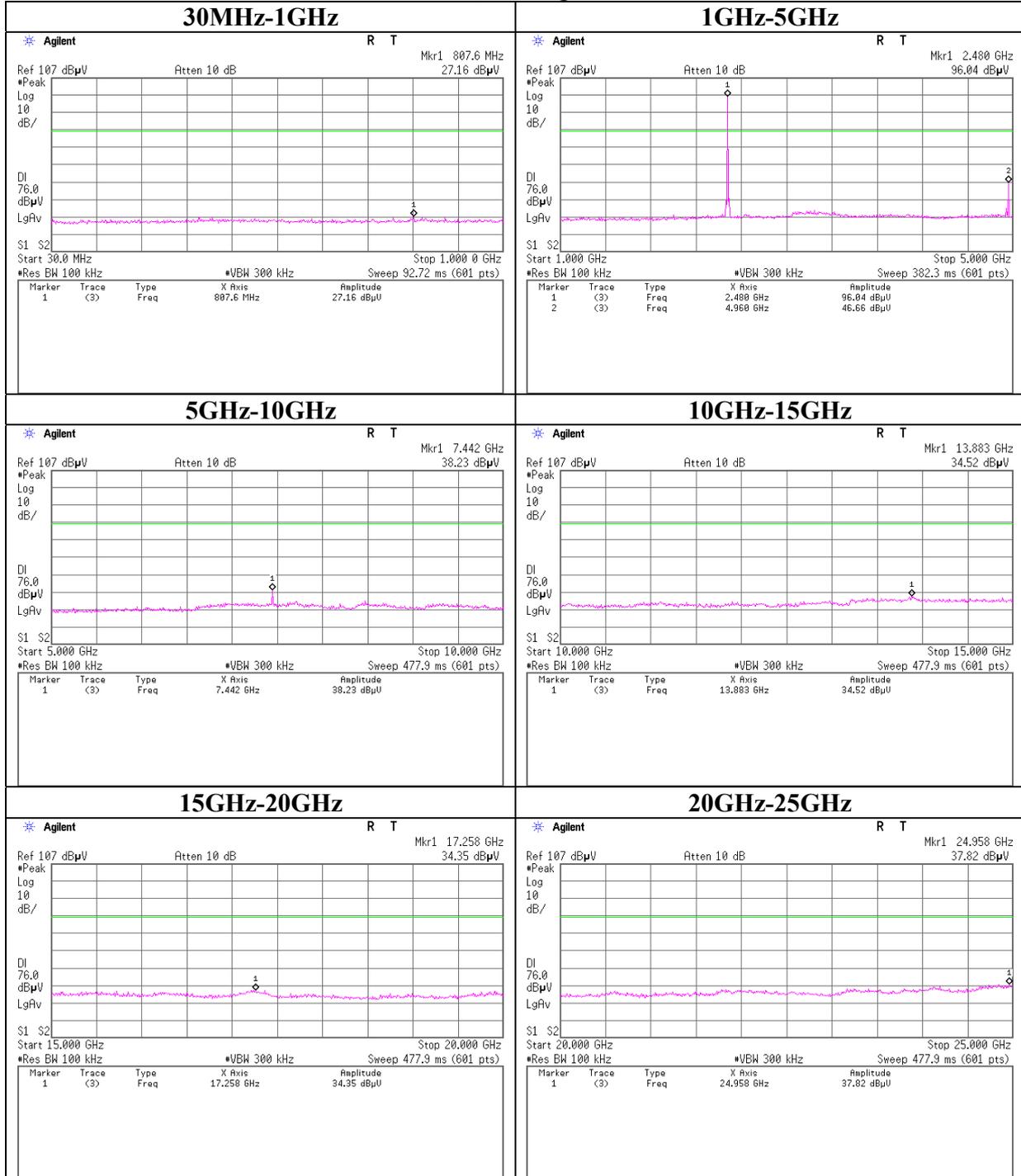
Conducted Spurious Emission
Tx, Ch:Low



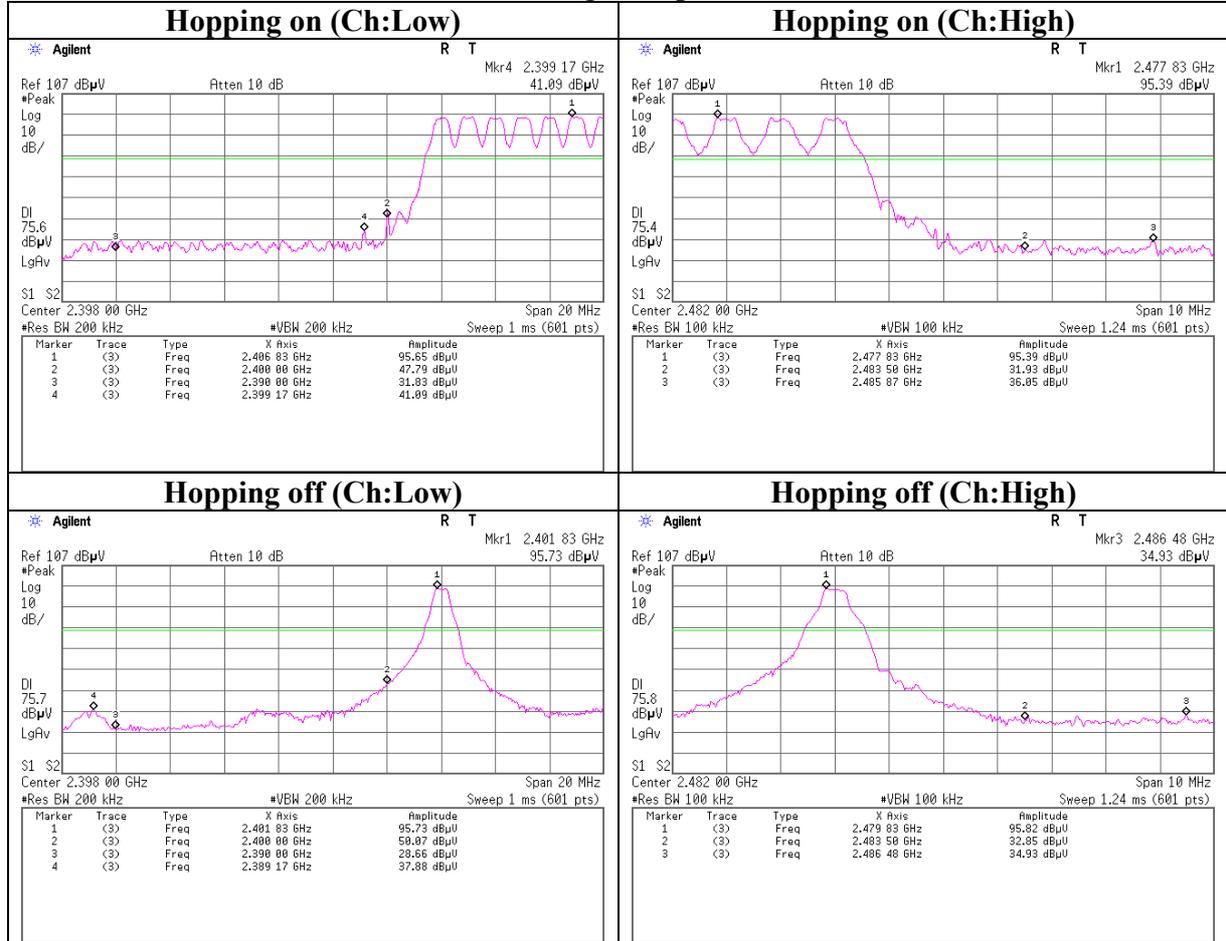
Conducted Spurious Emission
Tx, Ch:Mid



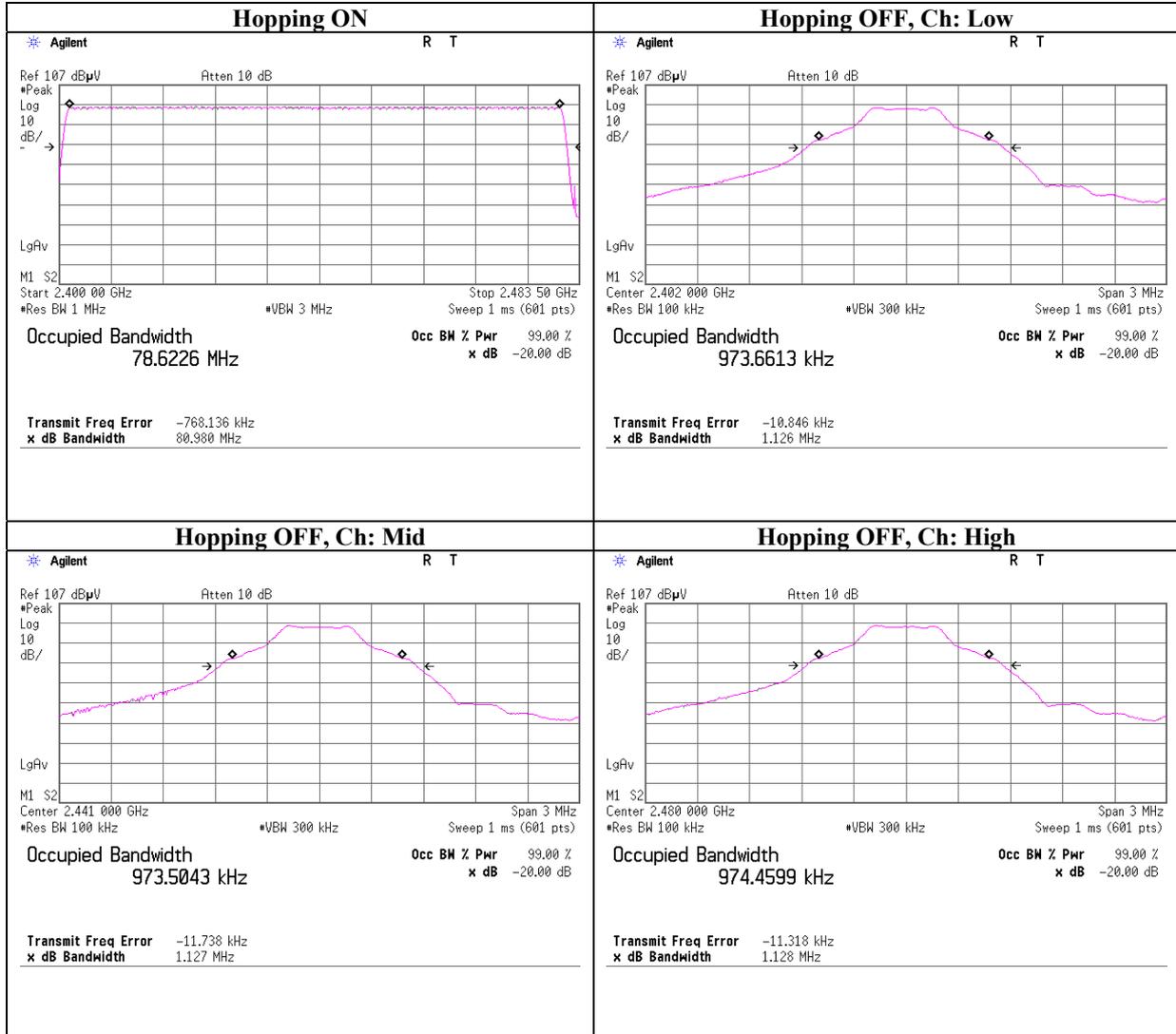
Conducted Spurious Emission
Tx, Ch:High



Conducted Spurious Emission
Band Edge compliance



99% Occupied Bandwidth



APPENDIX 3: Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-04	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE / CE	2007/03/03 * 12
MHA-17	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	RE	2007/04/06 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2006/08/17 * 12
MCC-57	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2007/03/30 * 12
MPA-12	MicroWave System Amplifier	Agilent	83017A	RE	2007/03/12 * 12
MHF-14	High Pass Filter 3.5-18GHz	TOKIMEC	TF323DCC	RE	2006/12/18 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	RE / CE	2006/06/02 * 12
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE / CE	-
MOS-15	Thermo-Hygrometer	Custom	CTH-180	RE / CE	2006/01/19 * 24
MJM-07	Measure	PROMART	SEN1955	RE / CE	-
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2007/04/02 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE	2007/02/27 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2006/12/27 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/10/07 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2006/10/07 * 12
MPA-09	Pre Amplifier	Agilent	8447D	RE	2006/09/07 * 12
MSA-09	Spectrum Analyzer	Advantest	R3273	RE	2006/12/08 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	RE	2007/05/31 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE	2006/11/27 * 12
MJM-05	Measure	PROMART	SEN1955	RE	-
MPM-09	Power Meter	Anritsu	ML2495A	AT	2006/09/20 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2006/09/20 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	AT	2006/09/13 * 12
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	AT	2007/03/07 * 12
MOS-04	Digital Humidity Indicator	N.T	NT-1800	AT	2006/11/27 * 12
MCC-26	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	AT	2006/08/29 * 12
MTR-06	Test Receiver	Rohde & Schwarz	ESCS30	CE	2006/09/12 * 12
MCC-50	Coaxial cable	UL Japan	-	CE	2007/03/06 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2007/02/22 * 12

The expiration date of the calibration is the end of the expired month.

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

AT: Antenna Terminal Conducted test

UL Japan, Inc.

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