

APPENDIX 2: Data of EMI test

Peak Output Power (Conducted)

UL Japan, Inc.
Head Office EMC Lab. No.6 Shielded Room

COMPANY	SHARP CORPORATION	REPORT NO	28FE0217-HO
EQUIPMENT	GSM Mobile Phone	REGULATION	FCC Part24 Section 24.232(b)
MODEL	PV210	TEST METHOD	FCC Part2 Section 2.1046
S/N	168	TEST DISTANCE	-
POWER	DC3.9V(Rated Voltage)	DATE	03/16/2008
MODE	Tx PCL=0(MAX Pow)	TEMPERATURE	25°C
		HUMIDITY	40%
		ENGINEER	Yutaka Yoshida

<GSM>

Ch	Frequency [MHz]	P/M Reading [dBm]	Atten. [dB]	Cable Loss [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	1850.2	4.6	20.0	4.9	29.5	33.0	3.5
Mid	1880.0	4.6	20.0	4.9	29.5	33.0	3.5
High	1909.8	4.8	20.0	5.0	29.8	33.0	3.2

<EGPRS>

Ch	Frequency [MHz]	P/M Reading [dBm]	Atten. [dB]	Cable Loss [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	1850.2	4.7	20.0	4.9	29.6	33.0	3.4
Mid	1880.0	4.6	20.0	4.9	29.5	33.0	3.5
High	1909.8	4.2	20.0	5.0	29.2	33.0	3.8

Sample Calculation : Result = Reading + Atten. + Cable Loss

Peak Output Power (Radiated)

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company SHARP CORPORATION
Equipment GSM Mobile Phone
Model PV210
S/N 168
Power AC 120V / 60Hz
Mode GSM Mode / EGPRS Mode (PCS1900)
MAX Power
EUT-Position H: Z-axis / V: Y-axis
Tx Antenna 0.8m Height

Report Number 27JE0086-HO
Regulation FCC Part 24 Section 24.232(b)
Test Method FCC Part 2 Section 2.1046
Test Distance 3m
Date 03/01/2008 03/03/2008
Temperature 23 deg.C. 25 deg.C.
Humidity 32 % 30 %
Engineer Satofumi Matsuyama Satofumi Matsuyama

<GSM>

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (EIRP) [dBm]		LIMIT [dBm] (EIRP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
1	1850.20	126.3	127.3	23.9	24.2	3.8	9.5	0.0	29.6	29.9	33.0	3.4	3.1	Operating	No4
2	1880.00	126.3	126.7	23.9	23.5	3.8	9.7	0.0	29.7	29.4	33.0	3.3	3.6	Operating	No4
3	1909.80	126.9	126.6	24.4	23.4	3.8	9.8	0.0	30.4	29.4	33.0	2.6	3.6	Operating	No4

<EGPRS>

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (EIRP) [dBm]		LIMIT [dBm] (EIRP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
1	1850.20	127.5	126.8	25.1	23.7	3.8	9.5	0.0	30.8	29.4	33.0	2.2	3.6	Operating	No4
2	1880.00	126.0	125.3	23.6	22.1	3.8	9.7	0.0	29.4	28.0	33.0	3.6	5.0	Operating	No4
3	1909.80	124.6	125.3	22.1	22.1	3.8	9.8	0.0	28.1	28.1	33.0	4.9	4.9	Operating	No4

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperriodic Antenna(300M-1000MHz), Horn Antenna(1G-20GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-20GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the equivalent isotropically radiated power was calculated on the basis of the reference value - for the calibration data on the substitution measurement.

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

Detector : S/A PK(RBW:3MHz, VBW:3MHz)

Emission Bandwidth

UL Japan, Inc.
Head Office EMC Lab. No.6 Shielded Room

COMPANY SHARP CORPORATION
EQUIPMENT GSM Mobile Phone
MODEL PV210
S/N 168
POWER DC3.9V (Rated Voltage)
MODE Tx PCL=0(MAX Pow)

REPORT NO 28FE0217-HO
REGULATION FCC Part24 Section 24.238(b)
TEST METHOD FCC Part2 Section 2.1049
TEST DISTANCE -
DATE 03/16/2008
TEMPERATURE 25°C
HUMIDITY 40%
ENGINEER Yutaka Yoshida

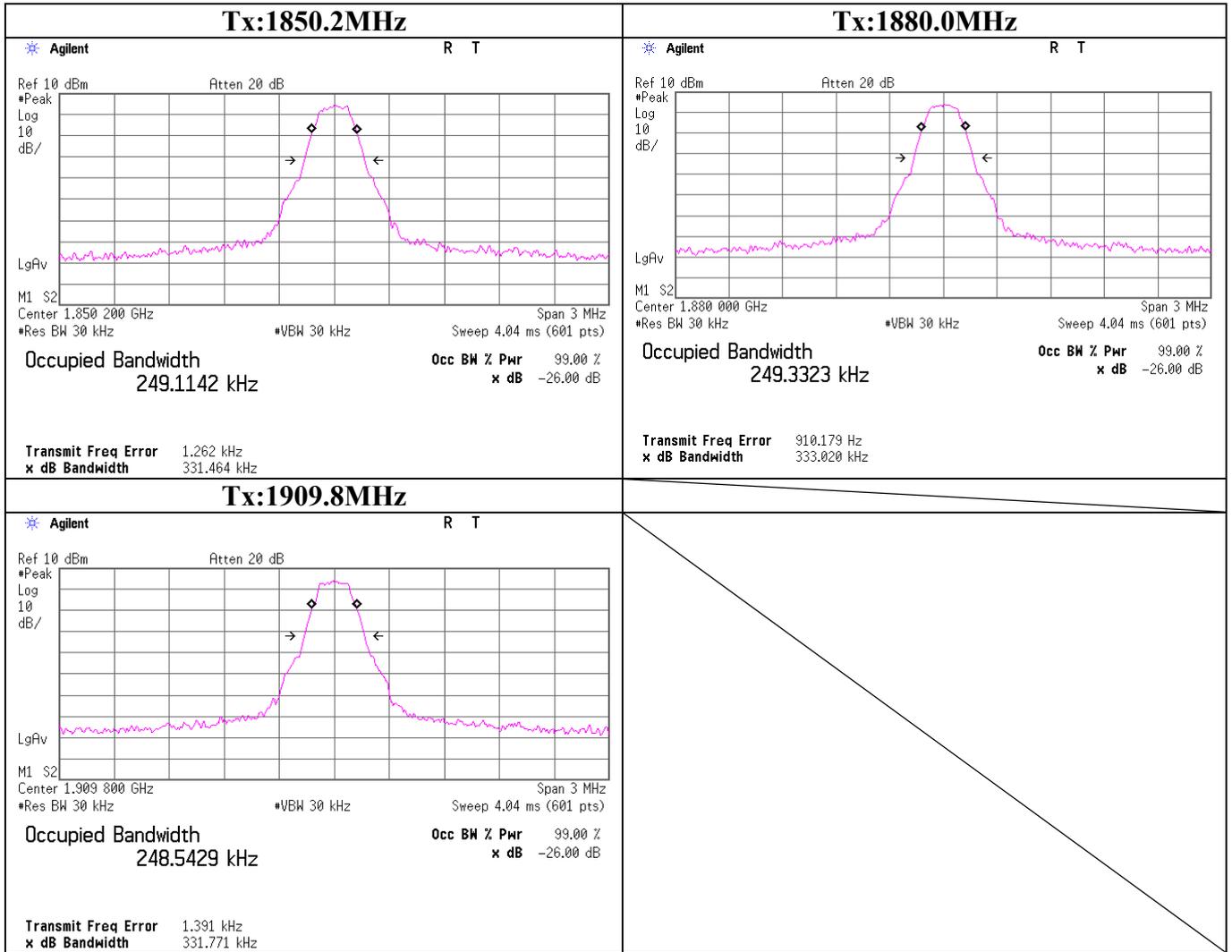
<GSM>

CH	FREQ [MHz]	Bandwidth [kHz]	Limit [kHz]
Low	1850.2	331.5	-
Mid	1880.0	333.0	-
High	1909.8	331.8	-

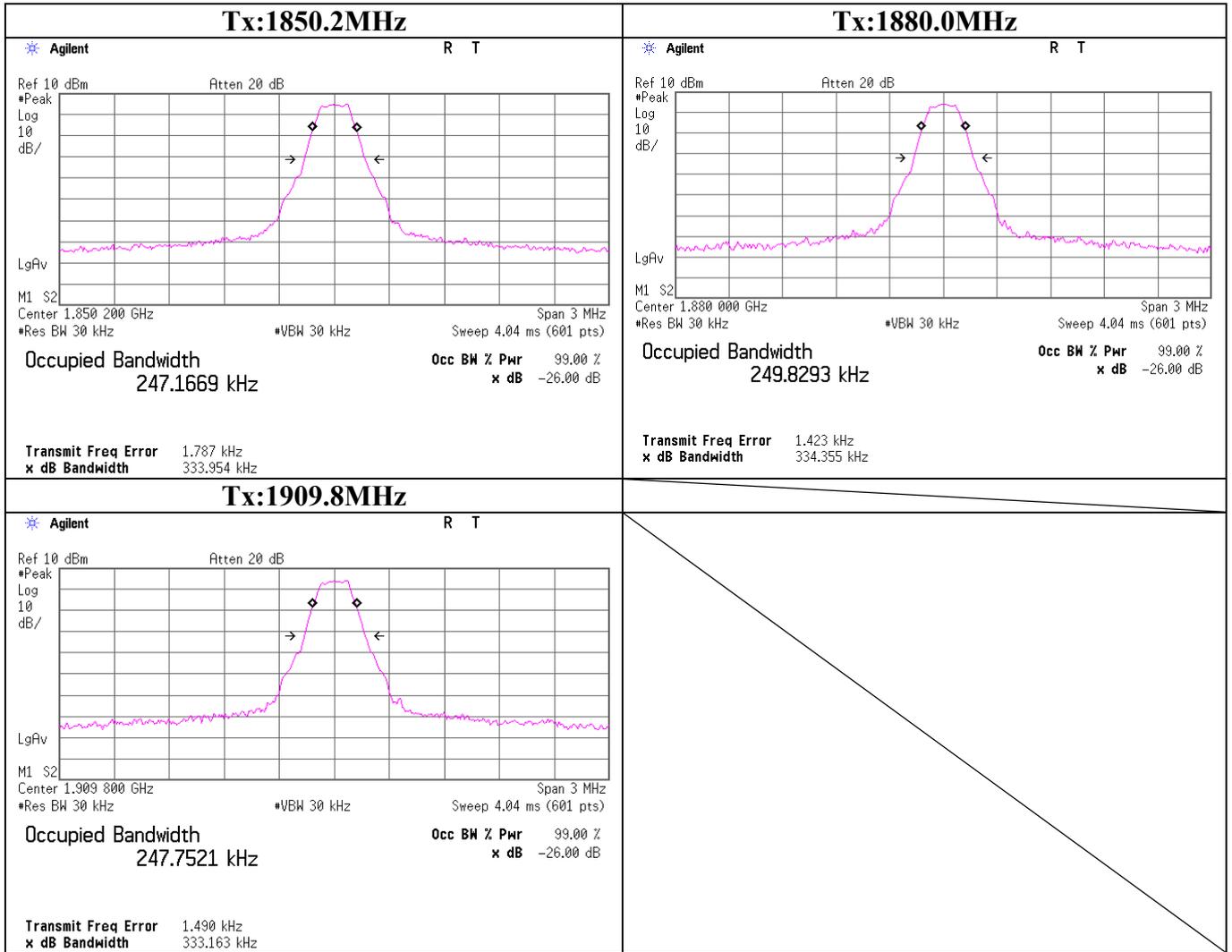
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CH	FREQ [MHz]	Bandwidth [kHz]	Limit [kHz]
Low	1850.2	334.0	-
Mid	1880.0	334.4	-
High	1909.8	333.2	-

Emission Bandwidth
<GSM>



Emission Bandwidth
<EGPRS>



99%Occupied Bandwidth

COMPANY	SHARP CORPORATION	REPORT NO	28FE0217-HO
EQUIPMENT	GSM Mobile Phone	REGULATION	FCC Part24 Section 24.238(b)
MODEL	PV210	TEST METHOD	FCC Part2 Section 2.1049
S/N	168	TEST DISTANCE	-
POWER	DC3.9V (Rated Voltage)	DATE	03/16/2008
MODE	Tx PCL=0(MAX Pow)	TEMPERATURE	25°C
		HUMIDITY	40%
		ENGINEER	Yutaka Yoshida

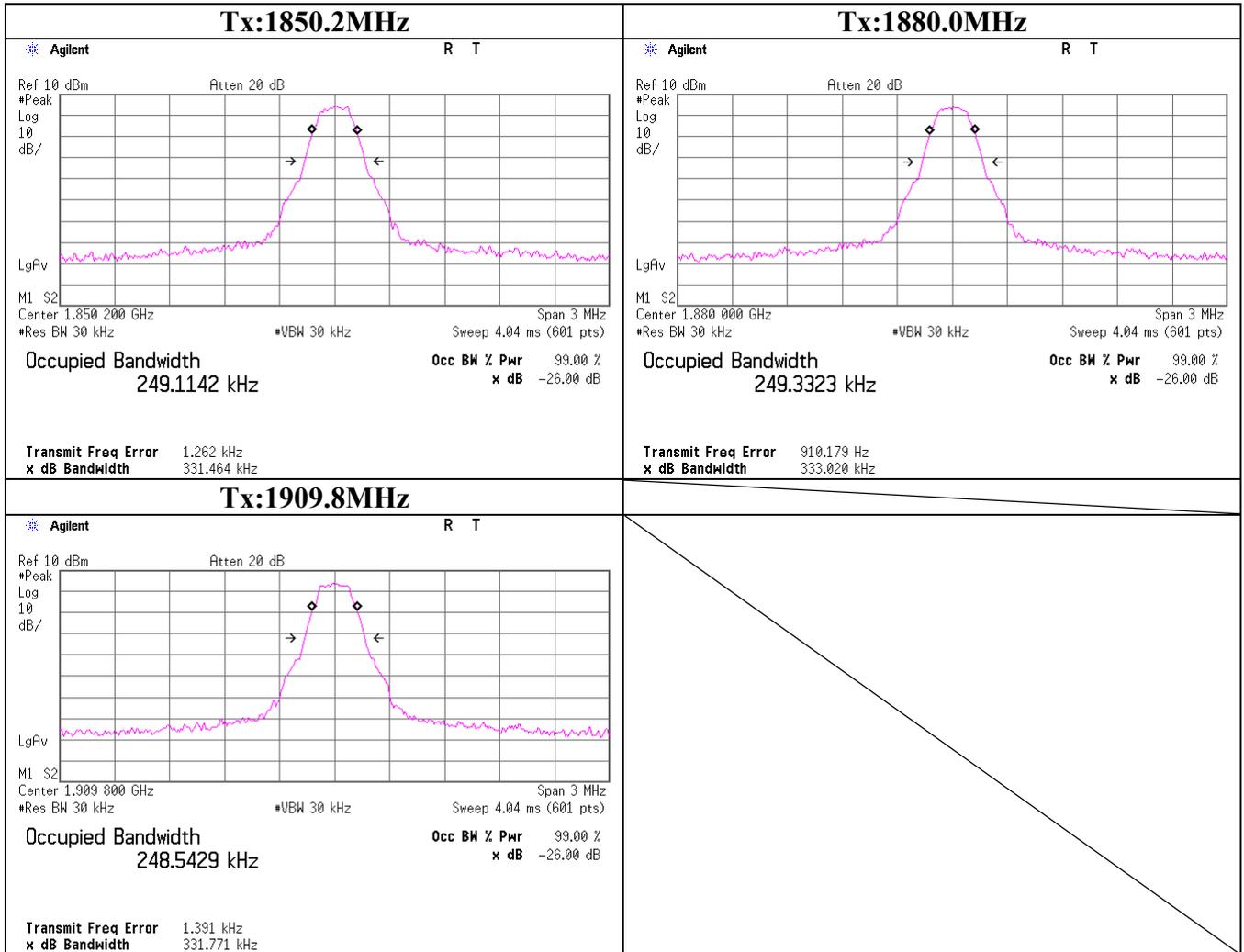
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CH	FREQ [MHz]	Bandwidth [kHz]	Limit [kHz]
Low	1850.2	249.1	-
Mid	1880.0	249.3	-
High	1909.8	248.5	-

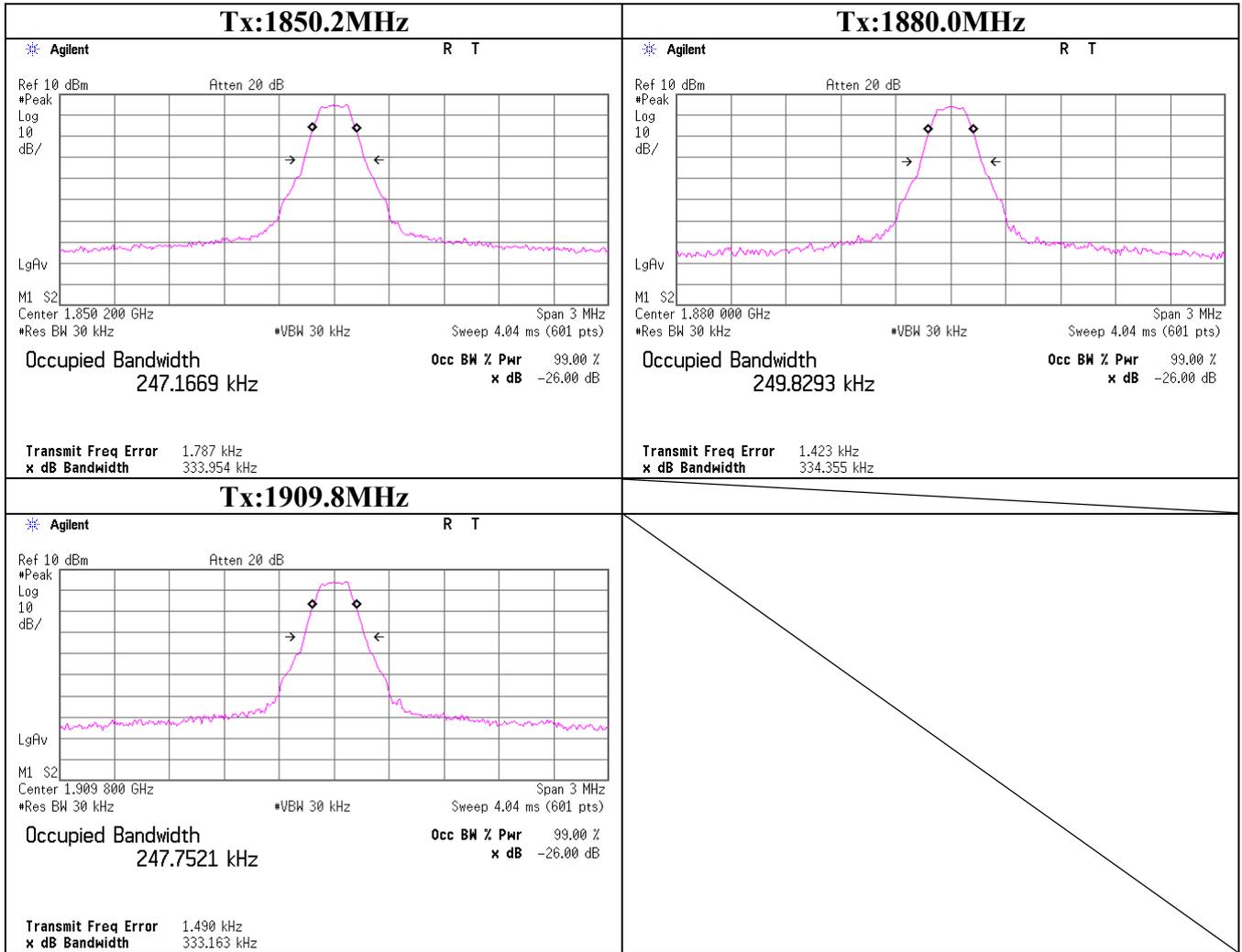
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CH	FREQ [MHz]	Bandwidth [kHz]	Limit [kHz]
Low	1850.2	247.2	-
Mid	1880.0	249.8	-
High	1909.8	247.8	-

99% Occupied Bandwidth
<GSM>



99%Occupied Bandwidth
<EGPRS>



Band Edge(Conducted)

UL Japan, Inc.
Head Office EMC Lab. No.6 Shielded Room

COMPANY	SHARP CORPORATION	REPORT NO	28FE0217-HO
EQUIPMENT	GSM Mobile Phone	REGULATION	FCC Part24 Section 24.238(b)
MODEL	PV210	TEST METHOD	FCC Part2 Section 2.1049
S/N	168	TEST DISTANCE	-
POWER	DC3.9V (Rated Voltage)	DATE	03/16/2008
MODE	Tx PCL=0(MAX Pow)	TEMPERATURE	25°C
		HUMIDITY	40%
		ENGINEER	Yutaka Yoshida

VIDEO AV 30 times

<GSM>

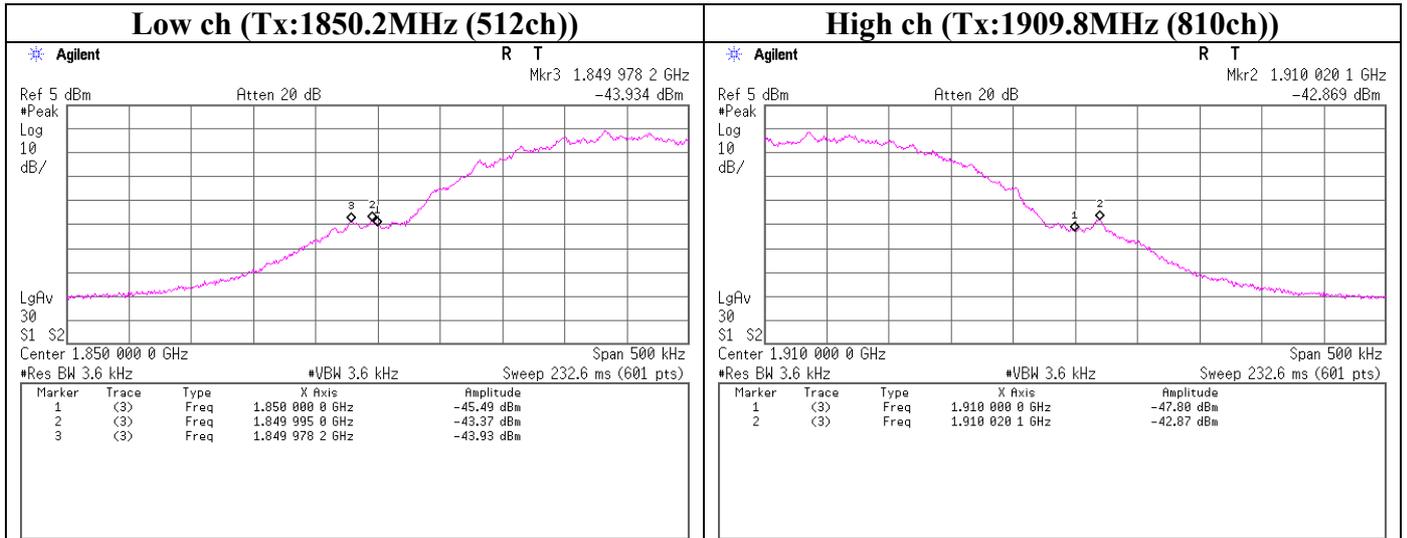
Frequency [MHz]	Reading [dBm]	Atten. [dB]	Cable Loss [dB]	Result [dBm]	Limit [dBm]	Margine [dB]
1849.978	-43.9	20.0	4.9	-19.0	-13.0	6.0
1849.995	-43.4	20.0	4.9	-18.5	-13.0	5.5
1850.000	-45.5	20.0	4.9	-20.6	-13.0	7.6
1910.000	-47.8	20.0	5.0	-22.8	-13.0	9.8
1910.020	-42.9	20.0	5.0	-17.9	-13.0	4.9

<EGPRS>

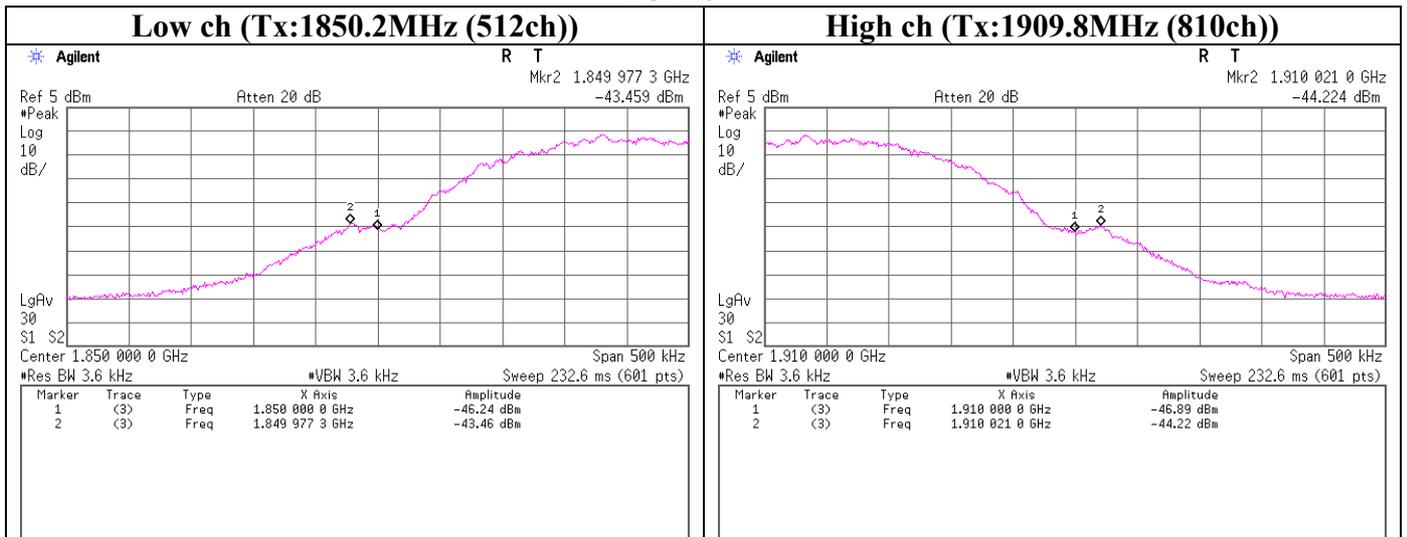
Frequency [MHz]	Reading [dBm]	Atten. [dB]	Cable Loss [dB]	Result [dBm]	Limit [dBm]	Margine [dB]
1849.977	-43.5	20.0	4.9	-18.6	-13.0	5.6
1850.000	-46.2	20.0	4.9	-21.3	-13.0	8.3
1910.000	-46.9	20.0	5.0	-21.9	-13.0	8.9
1910.021	-44.2	20.0	5.0	-19.2	-13.0	6.2

Sample Calculation : Result = Reading + Atten. + Cable Loss

Band Edge(Conducted)
<GSM>



<EGPRS>



Band Edge (Radiated)

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	SHARP CORPORATION	Report Number	28FE0217-HO
Equipment	GSM Mobile Phone	Regulation	FCC Part 24 Section 24.238(b)
Model	PV210	Test Method	FCC Part 2 Section 2.1049
S/N	168	Test Distance	3m
Power	AC 120V / 60Hz	Date	03/01/2008 03/03/2008
Mode	GSM Mode / EGPRS Mode (PCS1900)	Temperature	23 deg.C. 25 deg.C.
	MAX Power	Humidity	32 % 30 %
EUT-Position	H: Z-axis / V: Y-axis	Engineer	Satofumi Matsuyama Satofumi Matsuyama
Tx Antenna	0.8m Height		

<GSM>

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (EIRP) [dBm]		LIMIT [dBm] (EIRP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
		1	1850.00	73.7	74.8				-28.7	-28.3		3.8	9.5		
2	1910.00	73.9	73.9	-28.6	-29.3	3.8	9.8	0.0	-22.6	-23.3	-13.0	9.6	10.3	Operating	No4

<EGPRS>

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (EIRP) [dBm]		LIMIT [dBm] (EIRP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
		1	1850.00	74.2	73.7				-28.2	-29.4		3.8	9.5		
2	1910.00	72.6	72.6	-29.9	-30.6	3.8	9.8	0.0	-23.9	-24.6	-13.0	10.9	11.6	Operating	No4

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperriodic Antenna(300M-1000MHz), Horn Antenna(1G-20GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-20GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the equivalent isotropically radiated power was calculated on the basis of the reference value

- for the calibration data on the substitution measurement.

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

Detector : S/A PK (RBW : 3.6kHz, VBW : 3.6kHz) Video Average : 30 times Gating On

Spurious Emission (Conducted)

UL Japan, Inc.
Head Office EMC Lab. No.6 Shielded Room

COMPANY SHARP CORPORATION
EQUIPMENT GSM Mobile Phone
MODEL PV210
S/N 168
POWER DC3.9V (Rated Voltage)
MODE Tx PCL=0(MAX Pow)

REPORT NO 28FE0217-HO
REGULATION Fcc Part 24 Section 24.238(a)
TEST METHOD Fcc Part 2 Section 2.1051
TEST DISTANCE -
DATE 03/16/2008
TEMPERATURE 25°C
HUMIDITY 40%
ENGINEER Yutaka Yoshida

Limit Line

GSM / EGPRS

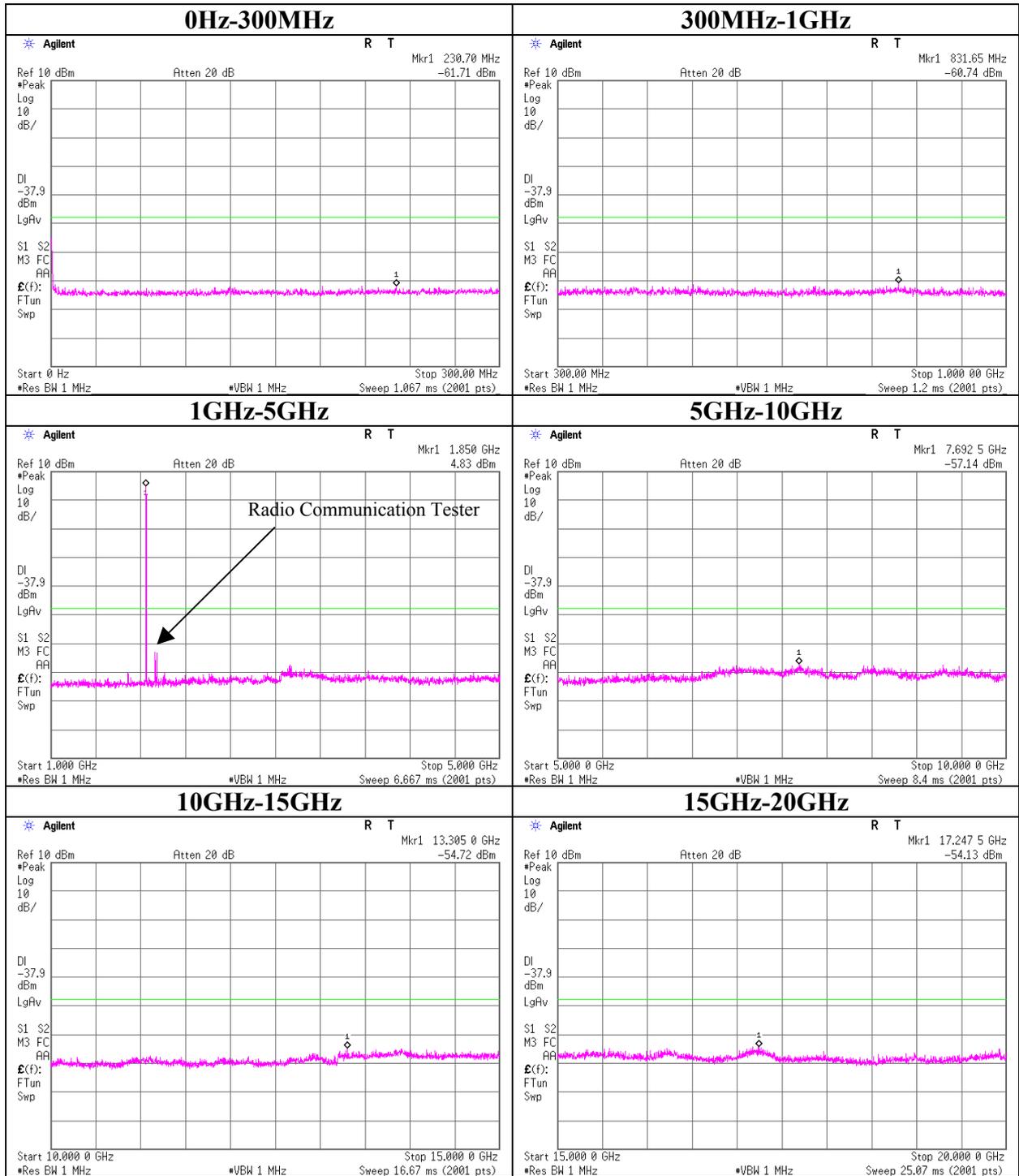
Tx Frequency [MHz]	Limit [dBm]	Atten. [dB]	Cable Loss [dB]	Limit Line [dBm]
1850.2	-13.0	20.0	4.9	-37.9
1880.0	-13.0	20.0	4.9	-37.9
1909.8	-13.0	20.0	5.0	-38.0

Sample Calculation : Limit Line = Limit - Atten. - Cable Loss

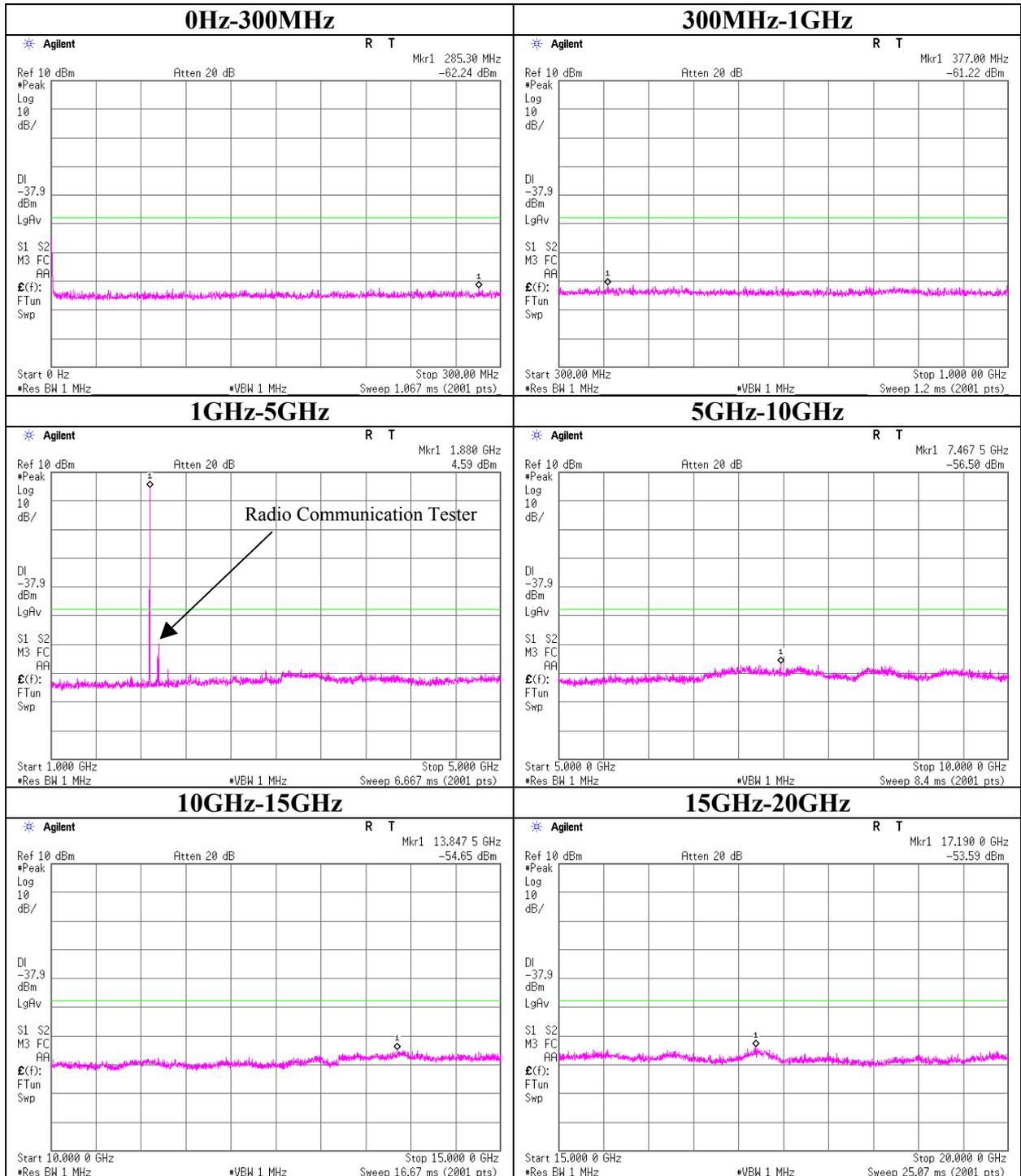
Result OK

*All the spurious noises were below the above limit line.

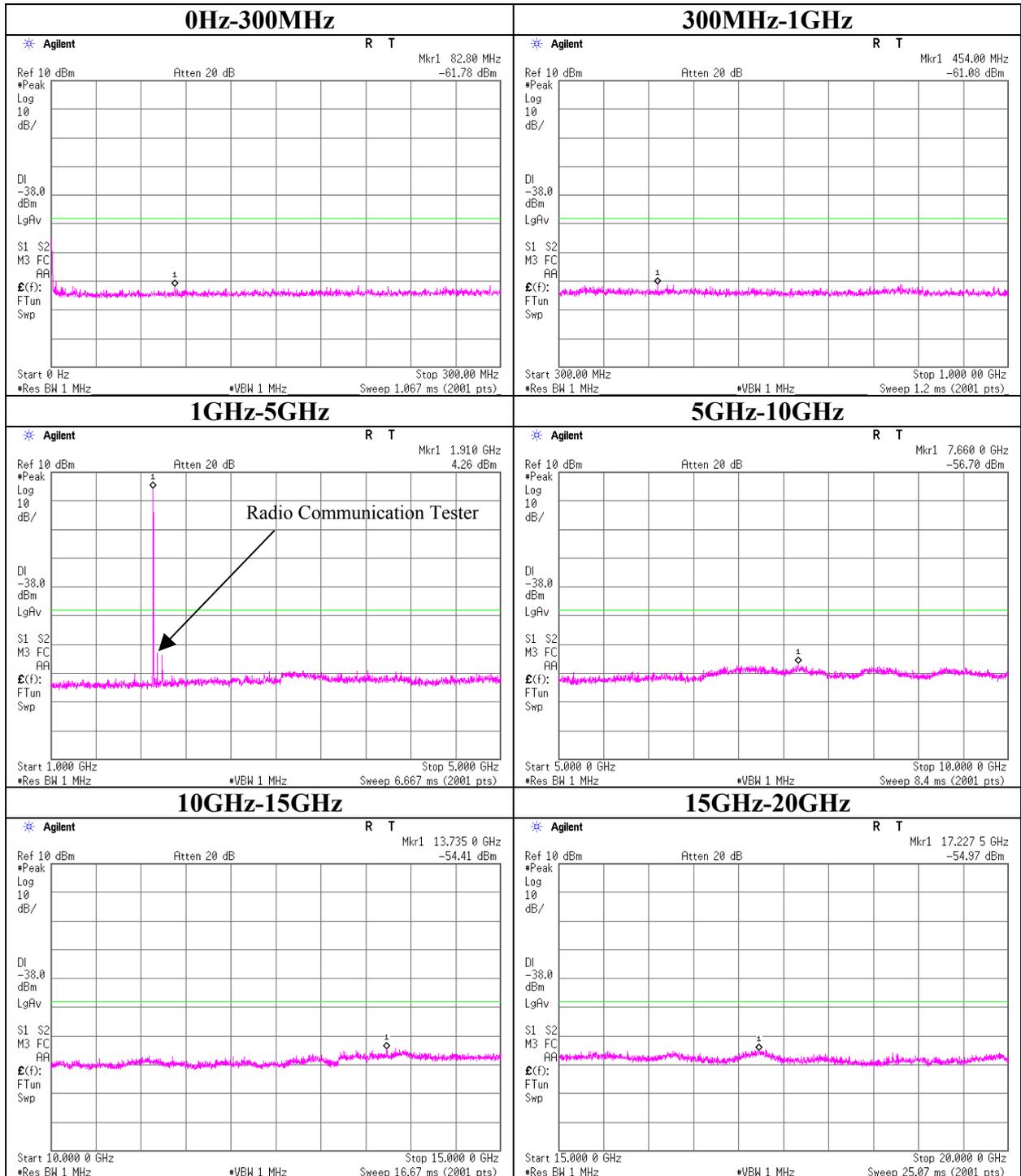
Spurious Emission (Conducted)
GSM / Tx:1850.2MHz



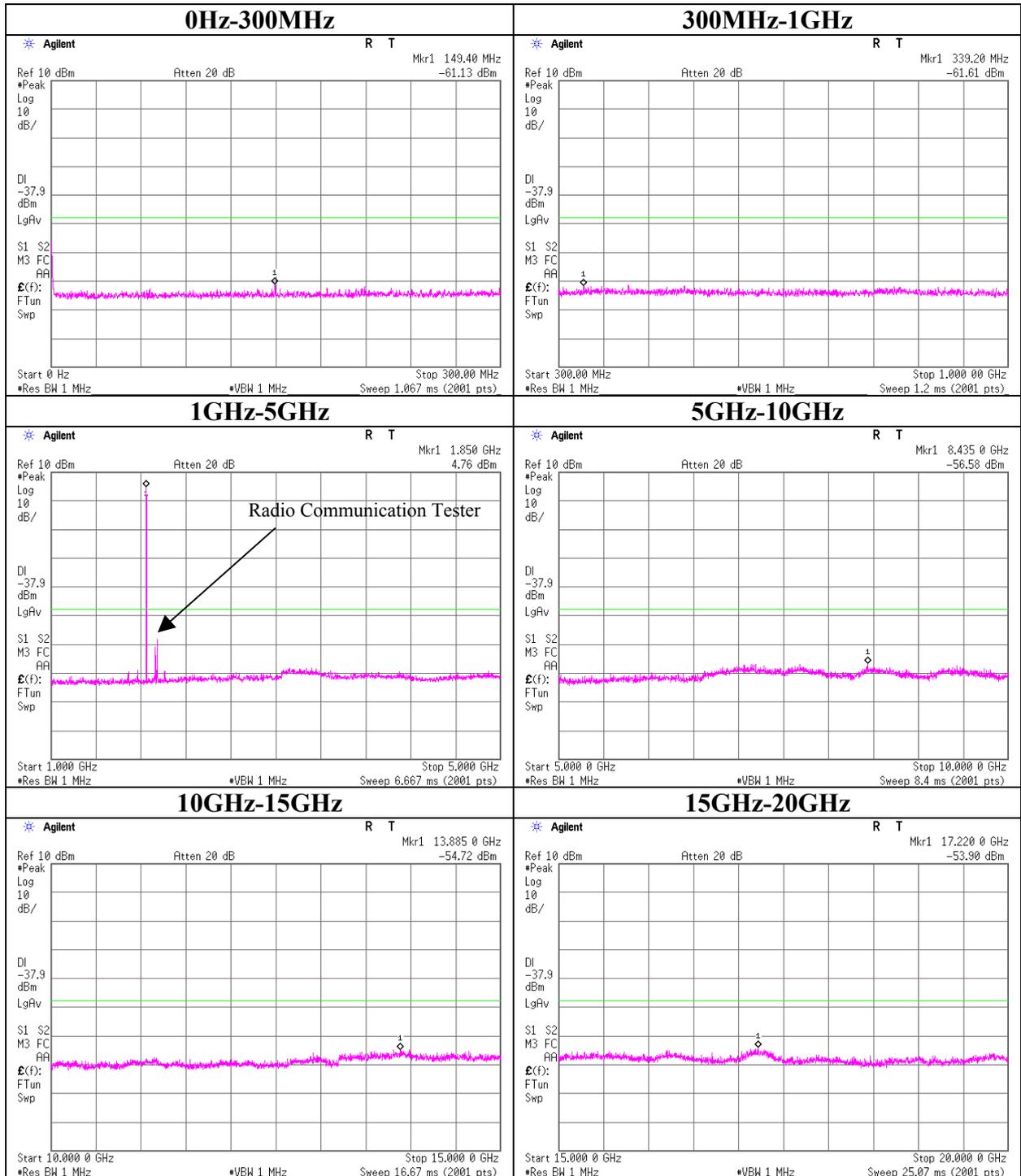
Spurious Emission (Conducted)
GSM / Tx:1880.0MHz



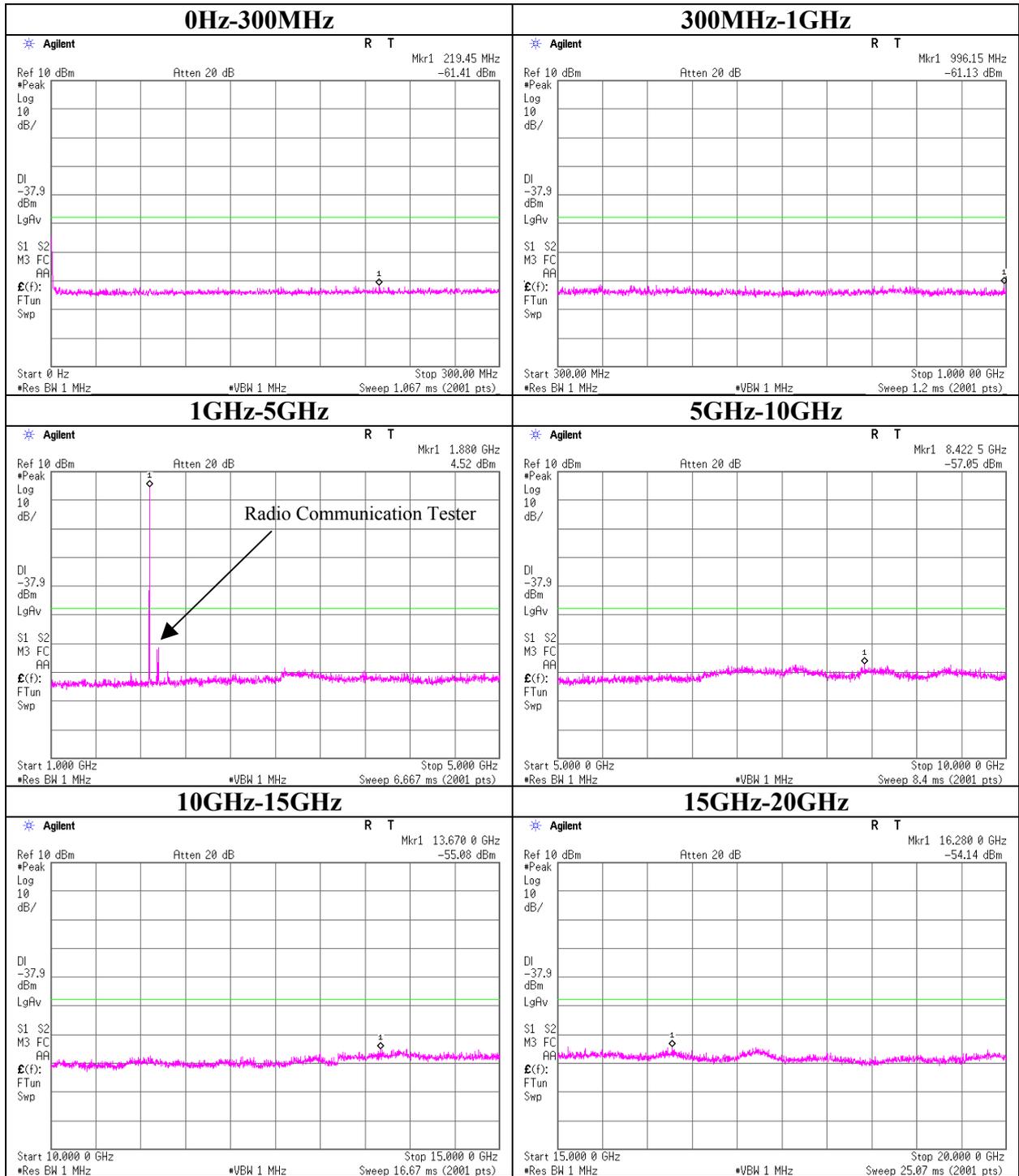
Spurious Emission (Conducted)
GSM / Tx:1909.8MHz



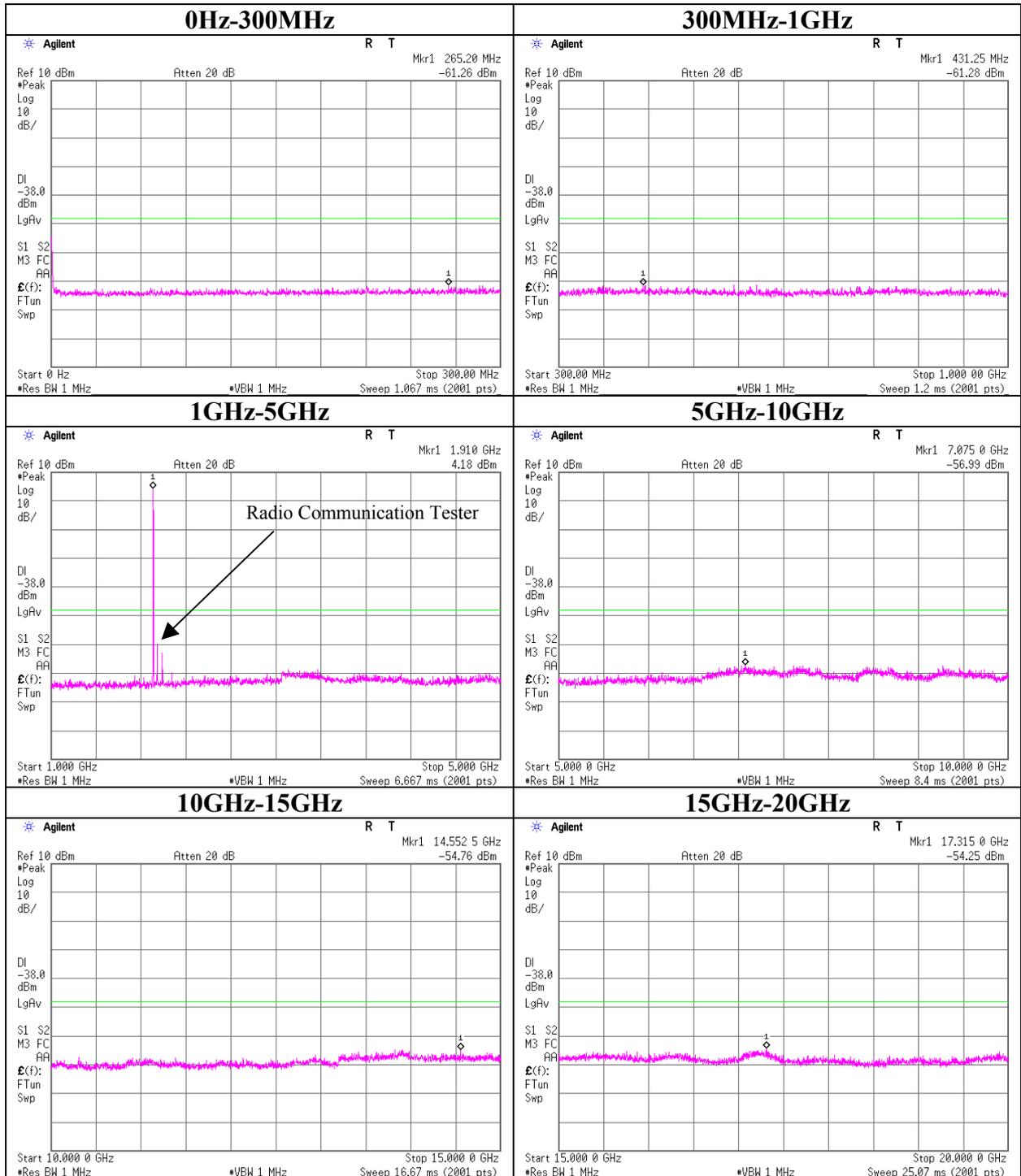
Spurious Emission (Conducted)
EGPRS / Tx:1850.2MHz



Spurious Emission (Conducted)
EGPRS / Tx:1880.0MHz



Spurious Emission (Conducted)
EGPRS / Tx:1909.8MHz



Spurious Radiation

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company SHARP CORPORATION
Equipment GSM Mobile Phone
Model PV210
S/N 168
Power AC 120V / 60Hz
Mode GSM Mode (PCS1900)
Tx 1850.2MHz(Ch512) / MAX Power
EUT-Position H: Z-axis / V: Y-axis
Tx Antenna 0.8m Height

Regulation FCC Part 24 Section 24.238(a)
Test Method FCC Part2 Section 2.1053
Test Distance 3m / 1m / 0.5m
Date 03/01/2008 03/04/2008 03/03/2008
Temperature 23 deg.C. 24 deg.C. 24 deg.C.
Humidity 32 % 33 % 34 %
Engineer Satofumi Satofumi Shinya
Matsuyama Matsuyama Watanabe
(Above 1GHz) (Above 1GHz) (Below 1GHz)

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (EIRP) [dBm]		LIMIT [dBm] (EIRP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
1	123.50	41.1	42.4	-47.8	-45.8	0.6	2.2	10.1	-56.3	-54.4	-17.8	38.6	36.6	Operating	No4
2	148.35	44.5	42.4	-45.6	-46.2	0.6	2.2	9.8	-53.9	-54.4	-17.8	36.1	36.7	Operating	No4
3	452.50	37.4	36.8	-54.0	-52.9	1.2	2.2	9.9	-62.9	-61.8	-17.8	45.2	44.1	Operating	No4
4	644.87	40.2	39.3	-49.3	-48.0	1.4	2.2	10.1	-58.6	-57.4	-17.8	40.8	39.6	Operating	No4
5	1689.41	58.7	59.8	-43.6	-43.3	3.6	8.7	0.0	-38.5	-38.1	-17.8	20.7	20.4	Operating	No4
6	2011.04	61.1	62.6	-41.4	-40.6	4.0	10.3	0.0	-35.1	-34.2	-17.8	17.3	16.5	Operating	No4
7	3700.40	59.0	56.2	-44.2	-46.5	5.3	12.5	0.0	-37.0	-39.3	-17.8	19.2	21.5	Operating	No4
8	5550.60	55.0	54.4	-46.8	-48.5	6.7	13.2	0.0	-40.3	-42.0	-17.8	22.5	24.2	Operating	No4
9	7400.80	56.1	55.4	-43.7	-45.7	7.9	11.5	0.0	-40.1	-42.0	-17.8	22.3	24.3	Operating	No4
10	9251.00	62.7	61.9	-36.9	-39.6	8.7	11.5	0.0	-34.1	-36.9	-17.8	16.4	19.1	Operating	No4
11	11101.20	66.1	65.1	-41.6	-42.7	9.5	11.2	0.0	-39.9	-41.0	-17.8	22.2	23.3	Operating	No4
12	12951.40	70.9	69.2	-33.1	-38.0	10.1	13.4	0.0	-29.7	-34.6	-17.8	12.0	16.9	Operating	No4
13	14801.60	60.7	60.3	-46.0	-42.9	11.0	13.3	0.0	-43.7	-40.7	-17.8	25.9	22.9	Operating	No4
14	16651.80	59.9	59.7	-40.1	-33.4	12.1	15.5	0.0	-36.8	-30.1	-17.8	19.0	12.3	Operating	No4
15	18502.00	56.7	56.1	-45.3	-45.2	12.8	14.7	0.0	-43.4	-43.3	-17.8	25.7	25.6	Operating	No4

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-20GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-20GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value

- for the calibration data on the substitution measurement.

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

Detector : S/A PK (RBW:1MHz / VBW:1MHz)

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

Spurious Radiation

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company SHARP CORPORATION
Equipment GSM Mobile Phone
Model PV210
S/N 168
Power AC 120V / 60Hz
Mode GSM Mode (PCS1900)
Tx 1880MHz(Ch661) / MAX Power
EUT-Position H: Z-axis / V: Y-axis
Tx Antenna 0.8m Height

Regulation FCC Part 24 Section 24.238(a)
Test Method FCC Part2 Section 2.1053
Test Distance 3m / 1m / 0.5m
Date 03/01/2008 03/04/2008 03/03/2008
Temperature 23 deg.C. 24 deg.C. 24 deg.C.
Humidity 32 % 33 % 34 %
Engineer Satofumi Satofumi Shinya
Matsuyama Matsuyama Watanabe
(Above 1GHz) (Above 1GHz) (Below 1GHz)

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (EIRP) [dBm]		LIMIT [dBm] (EIRP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
1	123.17	43.8	43.6	-45.1	-44.6	0.6	2.2	10.1	-53.6	-53.2	-17.8	35.9	35.4	Operating	No4
2	147.83	45.3	41.0	-44.8	-47.6	0.6	2.2	9.8	-53.1	-55.8	-17.8	35.3	38.1	Operating	No4
3	452.82	37.7	36.6	-53.7	-53.1	1.2	2.2	9.9	-62.6	-62.0	-17.8	44.9	44.3	Operating	No4
4	644.87	39.7	39.6	-49.8	-47.7	1.4	2.2	10.1	-59.1	-57.1	-17.8	41.3	39.3	Operating	No4
5	1716.55	58.9	61.8	-43.5	-41.3	3.6	8.9	0.0	-38.2	-36.0	-17.8	20.5	18.3	Operating	No4
6	2043.27	60.2	62.3	-42.4	-40.9	4.0	10.3	0.0	-36.1	-34.5	-17.8	18.3	16.8	Operating	No4
7	3760.00	58.5	59.9	-44.7	-42.7	5.4	12.6	0.0	-37.4	-35.5	-17.8	19.7	17.7	Operating	No4
8	5640.00	53.4	55.4	-48.4	-47.3	6.8	13.3	0.0	-41.8	-40.8	-17.8	24.1	23.0	Operating	No4
9	7520.00	57.6	55.8	-42.2	-45.2	7.9	11.5	0.0	-38.6	-41.6	-17.8	20.8	23.9	Operating	No4
10	9400.00	60.8	60.4	-38.6	-41.2	8.8	11.5	0.0	-35.9	-38.6	-17.8	18.2	20.8	Operating	No4
11	11280.00	61.6	60.4	-45.7	-47.3	9.5	11.5	0.0	-43.8	-45.4	-17.8	26.0	27.6	Operating	No4
12	13160.00	66.2	63.8	-38.4	-43.3	10.2	13.1	0.0	-35.5	-40.4	-17.8	17.8	22.6	Operating	No4
13	15040.00	59.7	61.5	-46.1	-40.6	11.1	13.9	0.0	-43.3	-37.8	-17.8	25.5	20.0	Operating	No4
14	16920.00	60.8	60.3	-41.0	-32.3	12.3	14.8	0.0	-38.6	-29.8	-17.8	20.8	12.0	Operating	No4
15	18800.00	57.1	57.5	-44.7	-43.6	13.0	14.7	0.0	-42.9	-41.8	-17.8	25.2	24.1	Operating	No4

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-20GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-20GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value

- for the calibration data on the substitution measurement.

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Detector : S/A PK (RBW:1MHz / VBW:1MHz)

UL Japan, Inc.

Head Office EMC Lab.

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Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Spurious Radiation

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company SHARP CORPORATION
Equipment GSM Mobile Phone
Model PV210
S/N 168
Power AC 120V / 60Hz
Mode GSM Mode (PCS1900)
Tx 1909.8MHz(Ch810) / MAX Power
EUT-Position H: Z-axis / V: Y-axis
Tx Antenna 0.8m Height

Regulation FCC Part 24 Section 24.238(a)
Test Method FCC Part2 Section 2.1053
Test Distance 3m / 1m / 0.5m
Date 03/01/2008 03/04/2008 03/03/2008
Temperature 23 deg.C. 24 deg.C. 24 deg.C.
Humidity 32 % 33 % 34 %
Engineer Satofumi Satofumi Shinya
Matsuyama Matsuyama Watanabe
(Above 1GHz) (Above 1GHz) (Below 1GHz)

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (EIRP) [dBm]		LIMIT [dBm] (EIRP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
1	121.70	43.1	43.2	-45.8	-45.0	0.5	2.2	10.1	-54.3	-53.4	-17.8	36.5	35.7	Operating	No4
2	146.17	44.8	42.6	-45.3	-45.9	0.6	2.2	9.8	-53.7	-54.2	-17.8	35.9	36.5	Operating	No4
3	452.82	37.1	36.5	-54.3	-53.2	1.2	2.2	9.9	-63.2	-62.1	-17.8	45.5	44.4	Operating	No4
4	644.87	39.0	39.8	-50.5	-47.5	1.4	2.2	10.1	-59.8	-56.9	-17.8	42.0	39.1	Operating	No4
5	1743.84	58.8	60.1	-43.6	-43.0	3.7	9.0	0.0	-38.2	-37.6	-17.8	20.5	19.9	Operating	No4
6	2075.90	59.6	60.9	-43.1	-42.3	4.0	10.4	0.0	-36.8	-35.9	-17.8	19.0	18.2	Operating	No4
7	3819.60	57.3	58.1	-45.9	-44.5	5.4	12.7	0.0	-38.6	-37.1	-17.8	20.8	19.4	Operating	No4
8	5729.40	54.6	55.4	-47.2	-47.1	6.8	13.4	0.0	-40.6	-40.6	-17.8	22.9	22.9	Operating	No4
9	7639.20	58.6	58.7	-41.1	-42.3	8.0	11.5	0.0	-37.6	-38.8	-17.8	19.9	21.0	Operating	No4
10	9549.00	58.9	58.1	-40.3	-43.6	8.9	11.4	0.0	-37.8	-41.1	-17.8	20.0	23.3	Operating	No4
11	11458.80	61.7	64.6	-45.2	-43.0	9.6	11.8	0.0	-43.0	-40.8	-17.8	25.2	23.1	Operating	No4
12	13368.60	66.7	66.2	-38.9	-40.8	10.4	12.7	0.0	-36.6	-38.5	-17.8	18.8	20.7	Operating	No4
13	15278.40	59.5	60.0	-43.7	-40.2	11.2	14.7	0.0	-40.3	-36.7	-17.8	22.5	19.0	Operating	No4
14	17188.20	63.5	63.3	-40.3	-30.4	12.4	13.2	0.0	-39.4	-29.6	-17.8	21.7	11.8	Operating	No4
15	19098.00	57.1	57.1	-44.5	-43.7	13.1	14.7	0.0	-42.9	-42.2	-17.8	25.2	24.4	Operating	No4

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperriodic Antenna(300M-1000MHz), Horn Antenna(1G-20GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-20GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

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Spurious Radiation

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company SHARP CORPORATION
Equipment GSM Mobile Phone
Model PV210
S/N 168
Power AC 120V / 60Hz
Mode EGPRS Mode (PCS1900)
EUT-Position Tx 1850.2MHz(Ch512) / MAX Power
H: Z-axis / V: Y-axis
Tx Antenna 0.8m Height

Regulation FCC Part 24 Section 24.238(a)
Test Method FCC Part2 Section 2.1053
Test Distance 3m / 1m / 0.5m
Date 03/03/2008 03/03/2008 03/04/2008
Temperature 24 deg.C. 25 deg.C. 24 deg.C.
Humidity 34 % 30 % 33 %
Engineer Shinya Satofumi Satofumi
Watanabe Matsuyama Matsuyama
(Below 1GHz) (Above 1GHz) (Above 1GHz)

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (EIRP) [dBm]		LIMIT [dBm] (EIRP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
1	117.42	28.0	33.4	-60.8	-54.9	0.5	1.8	10.0	-69.5	-63.6	-17.8	51.8	45.9	Operating	No4
2	149.25	34.7	36.3	-55.4	-52.3	0.6	2.2	9.8	-63.6	-60.5	-17.8	45.9	42.8	Operating	No4
3	452.83	37.5	36.2	-53.9	-53.5	1.2	2.2	9.9	-62.8	-62.4	-17.8	45.1	44.7	Operating	No4
4	644.87	38.9	39.6	-50.6	-47.7	1.4	2.2	10.1	-59.9	-57.1	-17.8	42.1	39.3	Operating	No4
5	1689.34	58.1	60.1	-44.2	-43.0	3.6	8.7	0.0	-39.1	-37.8	-17.8	21.3	20.1	Operating	No4
6	2011.07	61.9	62.5	-40.6	-40.7	4.0	10.3	0.0	-34.3	-34.3	-17.8	16.5	16.6	Operating	No4
7	3700.40	59.3	58.7	-43.9	-44.0	5.3	12.5	0.0	-36.7	-36.8	-17.8	18.9	19.0	Operating	No4
8	5550.60	53.2	54.3	-48.6	-48.6	6.7	13.2	0.0	-42.1	-42.1	-17.8	24.3	24.3	Operating	No4
9	7400.80	55.2	56.1	-44.6	-45.0	7.9	11.5	0.0	-41.0	-41.3	-17.8	23.2	23.6	Operating	No4
10	9251.00	61.9	61.4	-37.7	-40.1	8.7	11.5	0.0	-34.9	-37.4	-17.8	17.2	19.6	Operating	No4
11	11101.20	65.6	65.4	-42.1	-42.4	9.5	11.2	0.0	-40.4	-40.7	-17.8	22.7	23.0	Operating	No4
12	12951.40	69.9	68.2	-34.1	-39.0	10.1	13.4	0.0	-30.7	-35.6	-17.8	13.0	17.9	Operating	No4
13	14801.60	60.0	60.2	-46.7	-43.0	11.0	13.3	0.0	-44.4	-40.8	-17.8	26.6	23.0	Operating	No4
14	16651.80	59.5	60.0	-40.5	-33.1	12.1	15.5	0.0	-37.2	-29.8	-17.8	19.4	12.0	Operating	No4
15	18502.00	56.5	56.6	-45.5	-44.7	12.8	14.7	0.0	-43.6	-42.8	-17.8	25.9	25.1	Operating	No4

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-20GHz)

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All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

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Spurious Radiation

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company SHARP CORPORATION
Equipment GSM Mobile Phone
Model PV210
S/N 168
Power AC 120V / 60Hz
Mode EGPRS Mode (PCS1900)
Tx 1880MHz(Ch661) / MAX Power
EUT-Position H: Z-axis / V: Y-axis
Tx Antenna 0.8m Height

Regulation FCC Part 24 Section 24.238(a)
Test Method FCC Part2 Section 2.1053
Test Distance 3m / 1m / 0.5m
Date 03/03/2008 03/03/2008 03/04/2008
Temperature 24 deg.C. 25 deg.C. 24 deg.C.
Humidity 34 % 30 % 33 %
Engineer Shinya Watanabe Satofumi Satofumi
Matsuyama Matsuyama
(Below 1GHz) (Above 1GHz) (Above 1GHz)

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (EIRP) [dBm]		LIMIT [dBm] (EIRP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
1	123.00	36.0	35.8	-52.9	-52.4	0.6	2.2	10.1	-61.4	-60.9	-17.8	43.7	43.2	Operating	No4
2	146.58	37.8	33.9	-52.3	-54.6	0.6	2.2	9.8	-60.6	-62.9	-17.8	42.9	45.2	Operating	No4
3	452.83	37.6	36.3	-53.8	-53.4	1.2	2.2	9.9	-62.7	-62.3	-17.8	45.0	44.6	Operating	No4
4	644.76	39.3	40.2	-50.2	-47.1	1.4	2.2	10.1	-59.5	-56.5	-17.8	41.8	38.7	Operating	No4
5	1716.50	59.5	61.5	-42.9	-41.6	3.6	8.9	0.0	-37.6	-36.3	-17.8	19.9	18.6	Operating	No4
6	2043.46	60.0	61.6	-42.6	-41.6	4.0	10.3	0.0	-36.3	-35.2	-17.8	18.5	17.5	Operating	No4
7	3760.00	59.1	55.2	-44.1	-47.4	5.4	12.6	0.0	-36.8	-40.2	-17.8	19.1	22.4	Operating	No4
8	5640.00	53.7	54.2	-48.1	-48.5	6.8	13.3	0.0	-41.5	-42.0	-17.8	23.8	24.2	Operating	No4
9	7520.00	57.0	56.1	-42.8	-44.9	7.9	11.5	0.0	-39.2	-41.3	-17.8	21.4	23.6	Operating	No4
10	9400.00	61.0	59.8	-38.4	-41.8	8.8	11.5	0.0	-35.7	-39.2	-17.8	18.0	21.4	Operating	No4
11	11280.00	61.5	61.2	-45.8	-46.5	9.5	11.5	0.0	-43.9	-44.6	-17.8	26.1	26.8	Operating	No4
12	13160.00	66.6	62.9	-38.0	-44.2	10.2	13.1	0.0	-35.1	-41.3	-17.8	17.4	23.5	Operating	No4
13	15040.00	60.1	60.7	-45.7	-41.4	11.1	13.9	0.0	-42.9	-38.6	-17.8	25.1	20.8	Operating	No4
14	16920.00	61.0	61.3	-40.8	-31.3	12.3	14.8	0.0	-38.4	-28.8	-17.8	20.6	11.0	Operating	No4
15	18800.00	57.4	57.6	-44.4	-43.5	13.0	14.7	0.0	-42.6	-41.7	-17.8	24.9	24.0	Operating	No4

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-20GHz)

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All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

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Spurious Radiation

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Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	SHARP CORPORATION	Regulation	FCC Part 24 Section 24.238(a)
Equipment	GSM Mobile Phone	Test Method	FCC Part2 Section 2.1053
Model	PV210	Test Distance	3m / 1m / 0.5m
S/N	168	Date	03/03/2008 03/03/2008 03/04/2008
Power	AC 120V / 60Hz	Temperature	24 deg.C. 25 deg.C. 24 deg.C.
Mode	EGPRS Mode (PCS1900)	Humidity	34 % 30 % 33 %
EUT-Position	Tx 1909.8MHz(Ch810) / MAX Power H: Z-axis / V: Y-axis	Engineer	Shinya Satofumi Satofumi Watanabe Matsuyama Matsuyama
Tx Antenna	0.8m Height		(Below 1GHz) (Above 1GHz) (Above 1GHz)

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (EIRP) [dBm]		LIMIT [dBm] (EIRP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
1	118.80	33.6	34.1	-55.2	-54.1	0.5	2.0	10.0	-63.8	-62.6	-17.8	46.0	44.9	Operating	No4
2	143.30	36.3	34.5	-53.9	-54.0	0.7	2.2	9.9	-62.3	-62.4	-17.8	44.5	44.6	Operating	No4
3	452.82	37.3	36.6	-54.1	-53.1	1.2	2.2	9.9	-63.0	-62.0	-17.8	45.3	44.3	Operating	No4
4	644.87	39.2	39.5	-50.3	-47.8	1.4	2.2	10.1	-59.6	-57.2	-17.8	41.8	39.4	Operating	No4
5	1743.74	59.0	60.8	-43.4	-42.3	3.7	9.0	0.0	-38.0	-36.9	-17.8	20.3	19.2	Operating	No4
6	2075.87	59.8	60.5	-42.9	-42.7	4.0	10.4	0.0	-36.6	-36.3	-17.8	18.8	18.6	Operating	No4
7	3819.60	57.0	56.5	-46.2	-46.1	5.4	12.7	0.0	-38.9	-38.7	-17.8	21.1	21.0	Operating	No4
8	5729.40	54.5	55.4	-47.3	-47.1	6.8	13.4	0.0	-40.7	-40.6	-17.8	23.0	22.9	Operating	No4
9	7639.20	58.3	58.0	-41.4	-43.0	8.0	11.5	0.0	-37.9	-39.5	-17.8	20.2	21.7	Operating	No4
10	9549.00	57.9	57.1	-41.3	-44.6	8.9	11.4	0.0	-38.8	-42.1	-17.8	21.0	24.3	Operating	No4
11	11458.80	64.4	62.9	-42.5	-44.7	9.6	11.8	0.0	-40.3	-42.5	-17.8	22.5	24.8	Operating	No4
12	13368.60	67.2	64.9	-38.4	-42.1	10.4	12.7	0.0	-36.1	-39.8	-17.8	18.3	22.0	Operating	No4
13	15278.40	59.2	59.1	-44.0	-41.1	11.2	14.7	0.0	-40.6	-37.6	-17.8	22.8	19.9	Operating	No4
14	17188.20	63.7	63.4	-40.1	-30.3	12.4	13.2	0.0	-39.2	-29.5	-17.8	21.5	11.7	Operating	No4
15	19098.00	57.4	58.2	-44.2	-42.6	13.1	14.7	0.0	-42.6	-41.1	-17.8	24.9	23.3	Operating	No4

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-20GHz)

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Spurious Radiation

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Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	SHARP CORPORATION	Regulation	FCC Part 24 Section 24.238(a)		
Equipment	GSM Mobile Phone	Test Method	FCC Part2 Section 2.1053		
Model	PV210	Test Distance	3m / 1m / 0.5m		
S/N	168	Date	03/03/2008	03/03/2008	03/04/2008
Power	AC 120V / 60Hz	Temperature	24 deg.C.	25 deg.C.	24 deg.C.
Mode	EGPRS Mode (PCS1900) Tx 1850.2MHz(Ch512) / MAX Power + BT Communication	Humidity	34 %	30 %	33 %
EUT-Position	H: Z-axis / V: Y-axis	Engineer	Shinya	Satofumi	Satofumi
			Watanabe	Matsuyama	Matsuyama
Tx Antenna	0.8m Height		(Below 1GHz)	(Above 1GHz)	(Above 1GHz)

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (EIRP) [dBm]		LIMIT [dBm] (EIRP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
		1	117.75	31.1	34.7				-57.7	-53.6		0.5	1.8		
2	145.17	36.9	35.3	-53.2	-53.2	0.6	2.2	9.8	-61.6	-61.5	-17.8	43.8	43.8	Operating	No4
3	452.88	37.0	36.1	-54.4	-53.6	1.2	2.2	9.9	-63.3	-62.5	-17.8	45.6	44.8	Operating	No4
4	644.87	39.0	40.0	-50.5	-47.3	1.4	2.2	10.1	-59.8	-56.7	-17.8	42.0	38.9	Operating	No4
5	1689.41	57.9	59.3	-44.4	-43.8	3.6	8.7	0.0	-39.3	-38.6	-17.8	21.5	20.9	Operating	No4
6	2011.07	62.4	62.5	-40.1	-40.7	4.0	10.3	0.0	-33.8	-34.3	-17.8	16.0	16.6	Operating	No4
7	3700.40	59.0	58.8	-44.2	-43.9	5.3	12.5	0.0	-37.0	-36.7	-17.8	19.2	18.9	Operating	No4
8	5550.60	52.4	54.1	-49.4	-48.8	6.7	13.2	0.0	-42.9	-42.3	-17.8	25.1	24.5	Operating	No4
9	7400.80	54.9	55.2	-44.9	-45.9	7.9	11.5	0.0	-41.3	-42.2	-17.8	23.5	24.5	Operating	No4
10	9251.00	61.7	61.4	-37.9	-40.1	8.7	11.5	0.0	-35.1	-37.4	-17.8	17.4	19.6	Operating	No4
11	11101.20	65.7	65.1	-42.0	-42.7	9.5	11.2	0.0	-40.3	-41.0	-17.8	22.6	23.3	Operating	No4
12	12951.40	69.9	68.0	-34.1	-39.2	10.1	13.4	0.0	-30.7	-35.8	-17.8	13.0	18.1	Operating	No4
13	14801.60	60.4	60.7	-46.3	-42.5	11.0	13.3	0.0	-44.0	-40.3	-17.8	26.2	22.5	Operating	No4
14	16651.80	59.2	60.0	-40.8	-33.1	12.1	15.5	0.0	-37.5	-29.8	-17.8	19.7	12.0	Operating	No4
15	18502.00	56.4	56.3	-45.6	-45.0	12.8	14.7	0.0	-43.7	-43.1	-17.8	26.0	25.4	Operating	No4

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-20GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-20GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value

- for the calibration data on the substitution measurement.

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

Detector : S/A PK (RBW:1MHz / VBW:1MHz)

UL Japan, Inc.

Head Office EMC Lab.

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Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Spurious Radiation

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company SHARP CORPORATION
Equipment GSM Mobile Phone
Model PV210
S/N 168
Power AC 120V / 60Hz
Mode EGPRS Mode (PCS1900)
Tx 1880MHz(Ch661) / MAX Power
+ BT Communication

Regulation FCC Part 24 Section 24.238(a)
Test Method FCC Part2 Section 2.1053
Test Distance 3m / 1m / 0.5m
Date 03/03/2008 03/03/2008 03/04/2008
Temperature 24 deg.C. 25 deg.C. 24 deg.C.
Humidity 34 % 30 % 33 %

EUT-Position H: Z-axis / V: Y-axis

Engineer Shinya Satofumi Satofumi
Watanabe Matsuyama Matsuyama
(Below 1GHz) (Above 1GHz) (Above 1GHz)

Tx Antenna 0.8m Height

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (EIRP) [dBm]		LIMIT [dBm] (EIRP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
1	117.30	30.9	36.2	-57.9	-52.1	0.5	1.7	10.0	-66.6	-60.8	-17.8	48.9	43.1	Operating	No4
2	147.50	37.8	36.1	-52.3	-52.5	0.6	2.2	9.8	-60.6	-60.7	-17.8	42.9	43.0	Operating	No4
3	452.88	37.5	37.3	-53.9	-52.4	1.2	2.2	9.9	-62.8	-61.3	-17.8	45.1	43.6	Operating	No4
4	644.87	40.0	39.2	-49.5	-48.1	1.4	2.2	10.1	-58.8	-57.5	-17.8	41.0	39.7	Operating	No4
5	1716.55	59.0	61.1	-43.4	-42.0	3.6	8.9	0.0	-38.1	-36.7	-17.8	20.4	19.0	Operating	No4
6	2043.51	59.8	62.5	-42.8	-40.7	4.0	10.3	0.0	-36.5	-34.3	-17.8	18.7	16.6	Operating	No4
7	3760.00	58.7	57.3	-44.5	-45.3	5.4	12.6	0.0	-37.2	-38.1	-17.8	19.5	20.3	Operating	No4
8	5640.00	53.5	53.4	-48.3	-49.3	6.8	13.3	0.0	-41.7	-42.8	-17.8	24.0	25.0	Operating	No4
9	7520.00	56.5	56.0	-43.3	-45.0	7.9	11.5	0.0	-39.7	-41.4	-17.8	21.9	23.7	Operating	No4
10	9400.00	59.9	58.0	-39.5	-43.6	8.8	11.5	0.0	-36.8	-41.0	-17.8	19.1	23.2	Operating	No4
11	11280.00	62.0	60.7	-45.3	-47.0	9.5	11.5	0.0	-43.4	-45.1	-17.8	25.6	27.3	Operating	No4
12	13160.00	66.9	63.5	-37.7	-43.6	10.2	13.1	0.0	-34.8	-40.7	-17.8	17.1	22.9	Operating	No4
13	15040.00	60.3	61.0	-45.5	-41.1	11.1	13.9	0.0	-42.7	-38.3	-17.8	24.9	20.5	Operating	No4
14	16920.00	61.2	60.5	-40.6	-32.1	12.3	14.8	0.0	-38.2	-29.6	-17.8	20.4	11.8	Operating	No4
15	18800.00	57.1	57.1	-44.7	-44.0	13.0	14.7	0.0	-42.9	-42.2	-17.8	25.2	24.5	Operating	No4

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperriodic Antenna(300M-1000MHz), Horn Antenna(1G-20GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-20GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

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Detector : S/A PK (RBW:1MHz / VBW:1MHz)

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Spurious Radiation

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	SHARP CORPORATION	Regulation	FCC Part 24 Section 24.238(a)		
Equipment	GSM Mobile Phone	Test Method	FCC Part2 Section 2.1053		
Model	PV210	Test Distance	3m / 1m / 0.5m		
S/N	168	Date	03/03/2008	03/03/2008	03/04/2008
Power	AC 120V / 60Hz	Temperature	24 deg.C.	25 deg.C.	24 deg.C.
Mode	EGPRS Mode (PCS1900) Tx 1909.8MHz(Ch810) / MAX Power + BT Communication	Humidity	34 %	30 %	33 %
EUT-Position	H: Z-axis / V: Y-axis	Engineer	Shinya Watanabe (Below 1GHz)	Satofumi Matsuyama (Above 1GHz)	Satofumi Matsuyama (Above 1GHz)
Tx Antenna	0.8m Height				

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (EIRP) [dBm]		LIMIT [dBm] (EIRP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
		1	116.83	30.5	35.5				-58.2	-52.8		0.5	1.7		
2	145.00	36.4	36.4	-53.8	-52.1	0.6	2.2	9.9	-62.1	-60.5	-17.8	44.4	42.7	Operating	No4
3	452.88	36.3	37.4	-55.1	-52.3	1.2	2.2	9.9	-64.0	-61.2	-17.8	46.3	43.5	Operating	No4
4	644.87	39.6	39.1	-49.9	-48.2	1.4	2.2	10.1	-59.2	-57.6	-17.8	41.4	39.8	Operating	No4
5	1743.88	60.1	60.6	-42.3	-42.5	3.7	9.0	0.0	-36.9	-37.1	-17.8	19.2	19.4	Operating	No4
6	2075.87	59.3	61.4	-43.4	-41.8	4.0	10.4	0.0	-37.1	-35.4	-17.8	19.3	17.7	Operating	No4
7	3819.60	57.1	55.6	-46.1	-47.0	5.4	12.7	0.0	-38.8	-39.6	-17.8	21.0	21.9	Operating	No4
8	5729.40	54.1	55.8	-47.7	-46.7	6.8	13.4	0.0	-41.1	-40.2	-17.8	23.4	22.5	Operating	No4
9	7639.20	58.6	59.2	-41.1	-41.8	8.0	11.5	0.0	-37.6	-38.3	-17.8	19.9	20.5	Operating	No4
10	9549.00	58.2	57.0	-41.0	-44.7	8.9	11.4	0.0	-38.5	-42.2	-17.8	20.7	24.4	Operating	No4
11	11458.80	65.1	63.1	-41.8	-44.5	9.6	11.8	0.0	-39.6	-42.3	-17.8	21.8	24.6	Operating	No4
12	13368.60	66.9	64.7	-38.7	-42.3	10.4	12.7	0.0	-36.4	-40.0	-17.8	18.6	22.2	Operating	No4
13	15278.40	60.9	59.0	-42.3	-41.2	11.2	14.7	0.0	-38.9	-37.7	-17.8	21.1	20.0	Operating	No4
14	17188.20	63.8	62.9	-40.0	-30.8	12.4	13.2	0.0	-39.1	-30.0	-17.8	21.4	12.2	Operating	No4
15	19098.00	56.5	56.6	-45.1	-44.2	13.1	14.7	0.0	-43.5	-42.7	-17.8	25.8	24.9	Operating	No4

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperriodic Antenna(300M-1000MHz), Horn Antenna(1G-20GHz)

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Frequency Stability(Temperature/Voltage Variation)

UL Japan, Inc.
Head Office EMC Lab. No.6 Shielded Room

COMPANY	SHARP CORPORATION	REPORT NO	28FE0217-HO
EQUIPMENT	GSM Mobile Phone	REGULATION	FCC Part24 Section 24.235
MODEL	PV210	TEST METHOD	FCC Part2 Section 2.1055(a)(1) and(b)
S/N	168		FCC Part2 Section 2.1055(d)(1) and(2)
POWER	DC3.9V(Rated Voltage)	TEST DISTANCE	-
MODE	Tx 1880.0MHz (661ch)/PCL=0(MAX Pow)	DATE	03/16/2008
		TEMPERATURE	25°C
		HUMIDITY	40%
		ENGINEER	Yutaka Yoshida

<PCS1900>

Temp. [deg.C]	Volt. [V]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [ppm]	Limit [ppm]
-30.0	3.9	1879.999864	127	0.068	-
-20.0	3.9	1880.000113	122	0.065	-
-10.0	3.9	1879.999866	125	0.066	-
0.0	3.9	1880.000130	139	0.074	-
10.0	3.9	1879.999775	216	0.115	-
20.0	3.9	1879.999991	0	0.000	Reference
30.0	3.9	1879.999922	69	0.037	-
40.0	3.9	1880.000204	213	0.113	-
50.0	3.9	1880.000127	136	0.072	-

Temp. [deg.C]	Volt. [V]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [ppm]	Limit [ppm]
20.0	3.700	1879.999924	67	0.036	-
20.0	3.900	1879.999991	0	0.000	Reference
20.0	4.200	1880.000086	95	0.051	-

Frequency Stability(Temperature/Voltage Variation)

Head Office EMC Lab. No.6 Shielded Room

COMPANY	SHARP CORPORATION	REPORT NO	28FE0217-HO
EQUIPMENT	GSM Mobile Phone	REGULATION	FCC Part24 Section 24.235
MODEL	PV210	TEST METHOD	FCC Part2 Section 2.1055(a)(1) and(b) FCC Part2 Section 2.1055(d)(1) and(2)
S/N	168	TEST DISTANCE	-
POWER	DC3.9V (Rated Voltage)	DATE	03/16/2008
MODE	Tx 1880.0MHz (661ch)/PCL=0(MAX Pow)	TEMPERATURE	25°C
		HUMIDITY	40%
		ENGINEER	Yutaka Yoshida

<EGPRS>

Temp. [deg.C]	Volt. [V]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [ppm]	Limit [ppm]
-30.0	3.9	1879.999668	173	0.092	-
-20.0	3.9	1879.999621	220	0.117	-
-10.0	3.9	1879.999664	177	0.094	-
0.0	3.9	1879.999655	186	0.099	-
10.0	3.9	1880.000011	170	0.090	-
20.0	3.9	1879.999841	0	0.000	Reference
30.0	3.9	1879.999959	118	0.063	-
40.0	3.9	1880.000116	157	0.084	-
50.0	3.9	1880.000284	168	0.089	-

Temp. [deg.C]	Volt. [V]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [ppm]	Limit [ppm]
20.0	3.700	1880.000026	185	0.098	-
20.0	3.900	1879.999841	0	0.000	Reference
20.0	4.200	1879.999913	72	0.038	-

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	2007/03/03 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/08/16 * 12
MHA-17	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	RE	2007/04/06 * 12
MCC-57	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2008/03/05 * 12
MPA-12	MicroWave System Amplifier	Agilent	83017A	RE	2008/03/13 * 12
MHF-20	High Pass Filter 3.5-18.0GHz	TOKIMEC	TF323DCC	RE	2007/12/10 * 12
MCC-79	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2007/12/26 * 12
MAT-25	Attenuator(10dB)(above1GHz)	Agilent	8493C	RE	2007/06/28 * 12
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE	-
MOS-23	Thermo-Hygrometer	Custom	CTH-201	RE	2007/12/27 * 12
MJM-07	Measure	PROMART	SEN1955	RE	-
MSA-03	Spectrum Analyzer	Agilent	E4448A	RE/AT	2007/09/05 * 12
MBA-05	Biconical Antenna	Schwarzbeck	BBA9106	RE	2008/01/12 * 12
MLA-08	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	RE	2008/01/12 * 12
MAT-31	Attenuator(6dB)	TME	UFA-01	RE	2008/03/10 * 12
MCC-50	Coaxial cable	UL Japan	-	RE	2007/03/06 * 12
MPA-14	Pre Amplifier	SONOMA INSTRUMENT	310	RE	2008/03/06 * 12
MAT-21	Attenuator(20dB)(above1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-120	AT	2008/01/09 * 12
MCC-66	Microwave Cable 1G-40GHz	Schner	SUCOFLEX102	AT	2007/04/03 * 12
MPSC-01	Power splitters/Combiners	Mini-Circuit	ZFSC-2-2500	AT	2007/09/10 * 12
MCC-67	Microwave Cable 1G-40GHz	Schner	SUCOFLEX102	AT	2007/04/03 * 12
MURC-01	Universal Radio communication Tester	Rohde & Schwarz	CMU200	AT	Pre Check
MMM-08	DIGITAL HiTESTER	Hioki	3805	AT	2008/01/10 * 12
MOS-14	Thermo-Hygrometer	Custom	CTH-180	AT	2008/01/10 * 12
MCH-04	Temperature and Humidity Chamber	Espec	PL-2KP	AT	2007/08/30 * 12
MDPS-04	DC Power Supply	KENWOOD TMI	PW18-1.3AT	AT	Pre Check

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.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

Test Item :

RE: Radiated Emission
AT: Antenna Terminal Conducted

UL Japan, Inc.

Head Office EMC Lab.

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