APPENDIX 2: Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval (month)
MCC-26	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	AT	2005/08/30 * 12
MURC-01	Universal Radio communication Tester	Rohde & Schwarz	CMU200	RE/AT	Pre Check
MSA-04	Spectrum Analyzer	Agilent	E4448A	RE/AT	2006/02/11 * 12
MCC-25	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	AT	2005/08/30 * 12
MCC-14	Microwave Cable 1G-50GHz	Suhner	SUCOFLEX 101	AT	2006/02/02 * 12
MPSC-01	Power splitters/Combiners	Mini-Circuit	ZFSC-2-2500	AT	2005/09/27 * 12
MPSC-02	Power Splitters/Combiners	Mini-Circuit	ZFSC-2-10G	AT	2005/09/27 * 12
MAT-25	Attenuator(10dB)(above1GHz)	Agilent	8493C	AT	2005/06/03 * 12
MAT-20	Attenuator(10dB)(above1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-110	AT	2006/01/10 * 12
MOS-16	Thermo-Hygrometer	Custom	CTH-180	AT	2006/01/19 * 24
MRENT-23	Spectrum Analyzer	Advantest	R3273	AT	2006/01/10 * 12
MCC-22	Microwave Cable 1G-50GHz	Storm	421-011 (90-011-080)	AT	2005/04/29 * 12
MDPS-04	DC Power Supply	KENWOOD TMI	PW18-1.3AT	AT	Pre Check
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2006/03/03 * 12
MOS-12	Thermo-Hygrometer	Custom	CTH-180	RE	2006/01/19 * 24
MHA-05	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2006/01/09 * 12
MCC-56	Microwave Cable	Suhner	SUCOFLEX104	RE	2006/04/15 * 12
MAT-21	Attenuator(20dB)(above1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-120	RE	2006/01/10 * 12
MHF-07	High Pass Filter	Tokimec	TF323DCA	RE	2006/05/20 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	RE	2006/03/27 * 12
MHA-02	Horn Antenna	EMCO	3160-09	RE	2006/01/09 * 12
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE	2005/11/14 * 12
MOS-01	Digital Humidity Indicator	N.T	NT-1800	RE	2004/11/25 * 24
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2005/10/10 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2005/10/14 * 12
MCC-51	Coaxial cable	UL Apex	-	RE	2006/03/11 * 12
MAT-30	Attenuator(6dB)	TME	UFA-01	RE	2006/03/11 * 12
MPA-13	Pre Amplifier	SONOA INSTRUMENT	310	RE	2006/03/25 * 12
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE	2005/11/14 * 12
MOS-01	Digital Humidity Indicator	N.T	NT-1800	RE	2004/11/25 * 24
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE	-

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

Test Item : RE: Radiated Emission, AT: Antenna Terminal Conducted test

APPENDIX 3: Data of EMI test

Peak Output Power (Conducted)

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	SHARP CORPORATION	REPORT NO	26CE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	FCC Part24 Section 24.232(c)
MODEL	PV200E	TEST METHOD	FCC Part2 Section 2.1046
S/N	5	TEST DISTANCE	-
POWER	DC3.9V(AC120V/60Hz)	DATE	April 17, 2006
MODE	Tx PCL=0(MAX Pow)	TEMPERATURE	22℃
		HUMIDITY	36%
		ENGINEER	Yutaka Yoshida

<PCS1900>

Ch	Frequency [MHz]	P/M Reading [dBm]	Atten. [dB]	Cable Loss [dB]	Result [dBm]	Limit [dBm]	Margin [dB]	Convert [mW]
Low	1850.2	8.9	20.0	0.5	29.4	33.0	3.6	736.2
Mid	1880.0	9.1	20.0	0.5	29.6	33.0	3.4	751.6
High	1909.8	9.0	20.0	0.5	29.5	33.0	3.5	693.4

<PCS1900+EGPRS>

Ch	Frequency [MHz]	P/M Reading [dBm]	Atten. [dB]	Cable Loss [dB]	Result [dBm]	Limit [dBm]	Margin [dB]	Convert [mW]
Low	1850.2	8.9	20.0	0.5	29.4	33.0	3.6	736.2
Mid	1880.0	9.1	20.0	0.5	29.6	33.0	3.4	751.6
High	1909.8	9.2	20.0	0.5	29.7	33.0	3.3	693.4

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

Peak Output Power (Radiated)

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

COMPANY	Sharp corporation	REPORT NO	26CE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	FCC Part24 Sectiom 24.232(c)
MODEL	PV200E	TEST METHOD	FCC Part2 Sectiom 2.1046
S/N	5	TEST DISTANCE	3m
POWER	DC3.9V(AC120V/60Hz)	DATE	August 10, 2006
MODE	Tx PCL=0(MAX Pow)	TEMPERATURE	25℃
POSITION	H:Z-axis / V:Y-axis	HUMIDITY	63%
		CALIBRATION	OK
		ENGINEER	Yutaka Yoshida

<PCS1900> (No.1 Semi Anechoic Chamber)

No.	FREQ	SG READING		CABLE	ANT	ATTEN	RESULT		LIMITS	MARGIN	
		HOR	VER	LOSS	GAIN		HOR	VER	(EIRP)	HOR	VER
	[MHz]	[dBm]		[dB]	[dBi]	[dB]	[dBm]		[dBm]	[dB]	
1	1850.20	18.6	17.8	2.6	9.4	0.0	25.4	24.6	33.0	7.6	8.4
2	1880.00	19.3	16.5	2.6	9.6	0.0	26.2	23.4	33.0	6.8	9.6
3	1909.80	18.3	16.0	2.6	9.7	0.0	25.3	23.1	33.0	7.7	9.9

<PCS1900+EGPRS> (No.1 Semi Anechoic Chamber)

No.	FREQ	SG READING		CABLE	ANT	ATTEN	RESULT		LIMITS	MARGIN	
		HOR	VER	LOSS	GAIN		HOR	VER	(EIRP)	HOR	VER
	[MHz]	[dBm]		[dB]	[dBi]	[dB]	[dBm]		[dBm]	[dB]	
1	1850.20	19.0	17.5	2.6	9.4	0.0	25.8	24.3	33.0	7.2	8.7
2	1880.00	18.6	17.0	2.6	9.6	0.0	25.5	23.9	33.0	7.5	9.1
3	1909.80	17.5	17.0	2.6	9.7	0.0	24.5	24.1	33.0	8.5	8.9

CALCULATION:READING(SG)-LOSS(CABLE)+ANT.GAIN-ATTEN
Rx-ANTENNA : Biconical Antena(30-300MHz), Logperriodic Antenna(300-1000MHz), Horn Antenna(1-19GHz)
Tx-ANTENNA : Shorted Dipole Antenna(30-120MHz), Dipole Antenna(120-1000MHz), Horn Anrenna(1-19GHz)
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.

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

Emission Bandwidth

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	SHARP CORPORATION	REPORT NO	26CE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	FCC Part24 Section 24.238(b)
MODEL	PV200E	TEST METHOD	FCC Part2 Section 2.1049
S/N	5	TEST DISTANCE	-
POWER	DC3.9V (AC120V/60Hz)	DATE	March 24, 2006 / April 17, 2006
MODE	Tx PCL=0(MAX Pow)	TEMPERATURE	24℃ / 22℃
		HUMIDITY	34% / 36%
		ENGINEER	Yutaka Yoshida

<PCS1900>

CH	FREQ [MHz]	Bandwidth [kHz]	Limit [kHz]
Low	1850.2	337.0	-
Mid	1880.0	337.0	-
High	1909.8	337.5	-

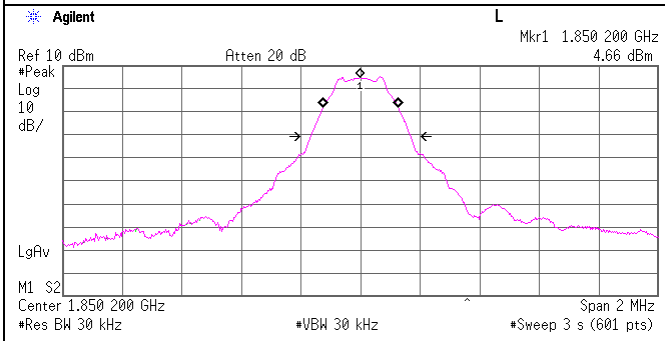
<PCS1900+EGPRS>

CH	FREQ [MHz]	Bandwidth [kHz]	Limit [kHz]
Low	1850.2	338.0	-
Mid	1880.0	337.0	-
High	1909.8	338.2	-

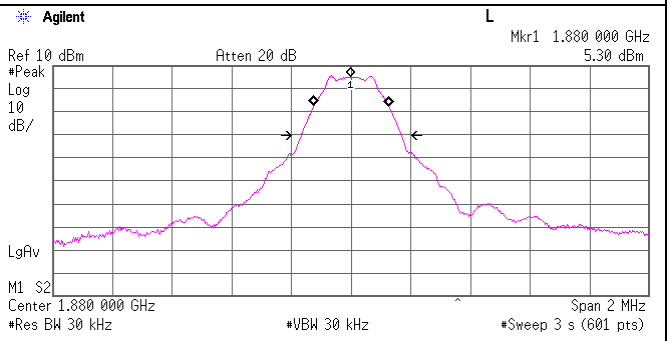
Emission Bandwidth

<PCS1900>

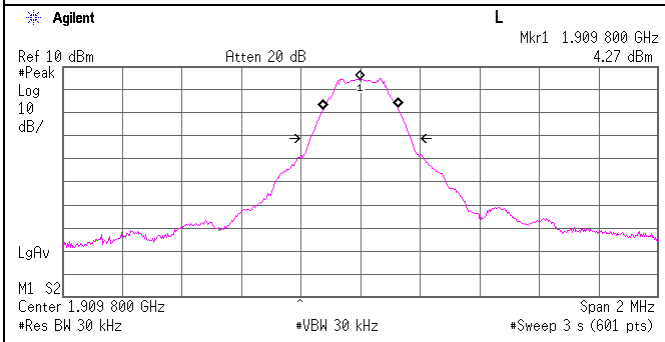
Tx:1850.2MHz



Tx:1880.0MHz



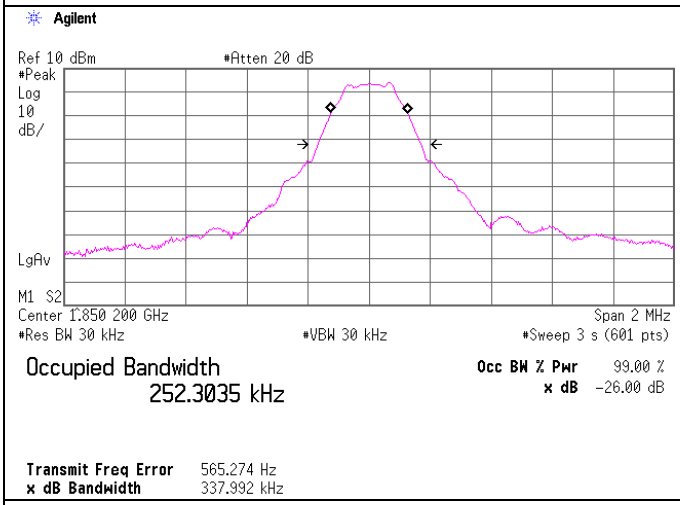
Tx:1909.8MHz



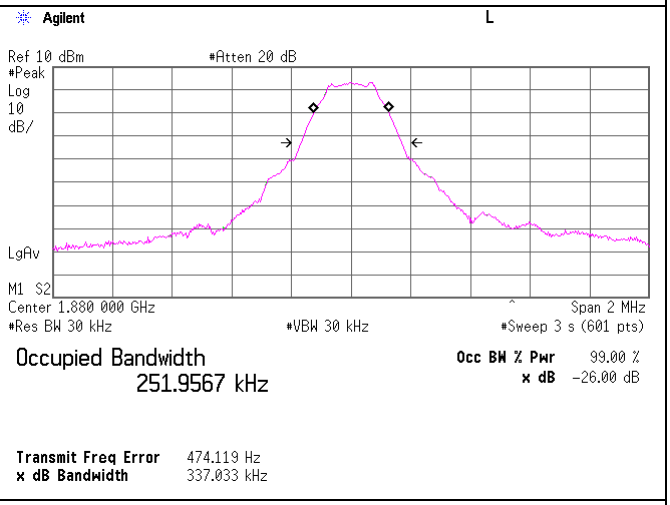
Emission Bandwidth

<PCS1900+EGPRS>

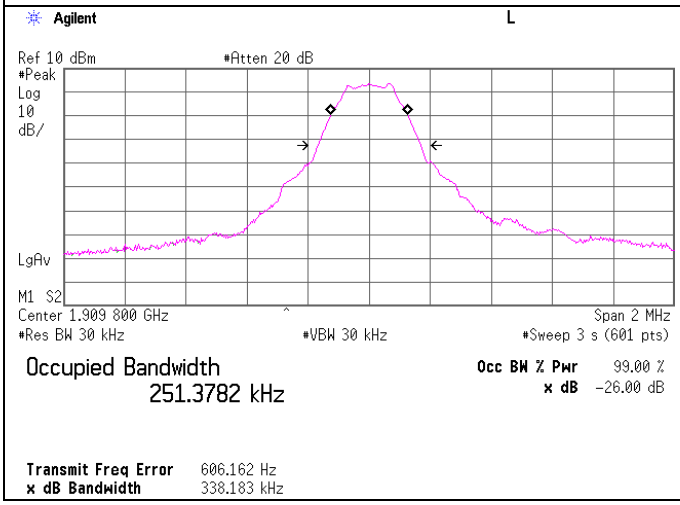
Tx:1850.2MHz



Tx:1880.0MHz



Tx:1909.8MHz



99%Occupied Bandwidth

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	SHARP CORPORATION	REPORT NO	26CE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	FCC Part24 Section 24.238(b)
MODEL	PV200E	TEST METHOD	FCC Part2 Section 2.1049
S/N	5	TEST DISTANCE	-
POWER	DC3.9V (AC120V/60Hz)	DATE	March 24, 2006/April 17, 2006
MODE	Tx PCL=0(MAX Pow)	TEMPERATURE	24℃/22℃
		HUMIDITY	34%/36%
		ENGINEER	Yutaka Yoshida

<PCS1900>

CH	FREQ [MHz]	Bandwidth [kHz]	Limit [kHz]
Low	1850.2	251.9	-
Mid	1880.0	252.0	-
High	1908.8	251.6	-

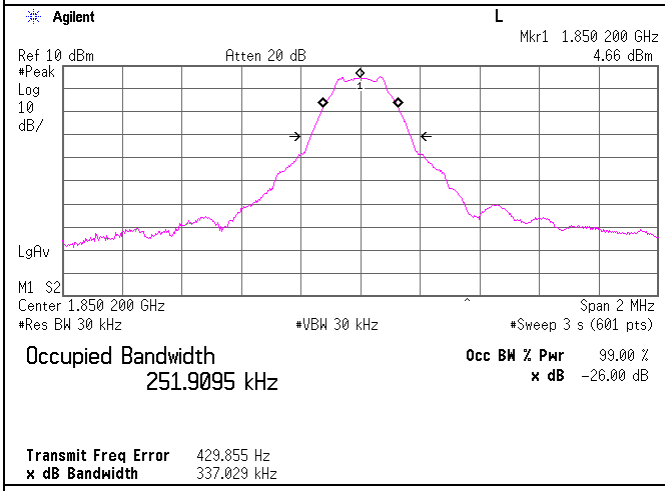
<PCS1900+EGPRS>

CH	FREQ [MHz]	Bandwidth [kHz]	Limit [kHz]
Low	1850.2	252.3	-
Mid	1880.0	252.0	-
High	1908.8	251.4	-

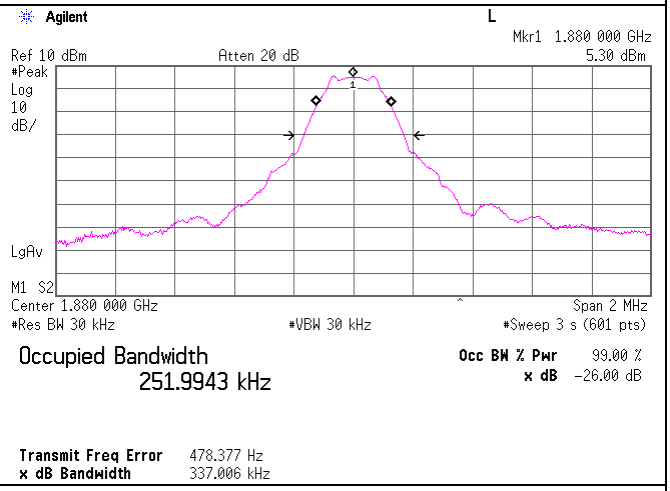
99%Occupied Bandwidth

<PCS1900>

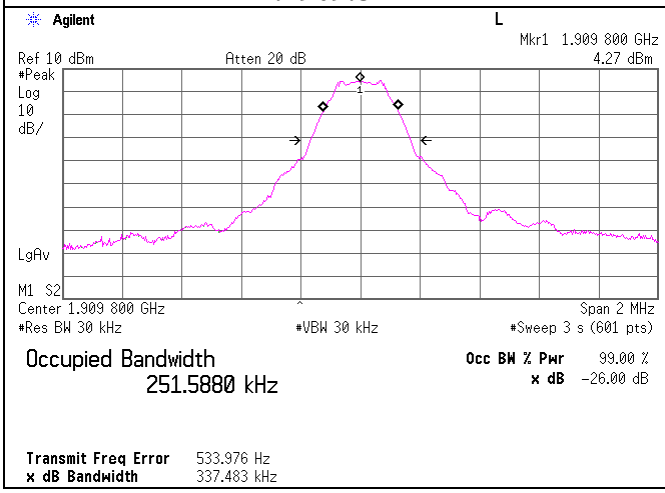
Tx:1850.2MHz



Tx:1880.0MHz



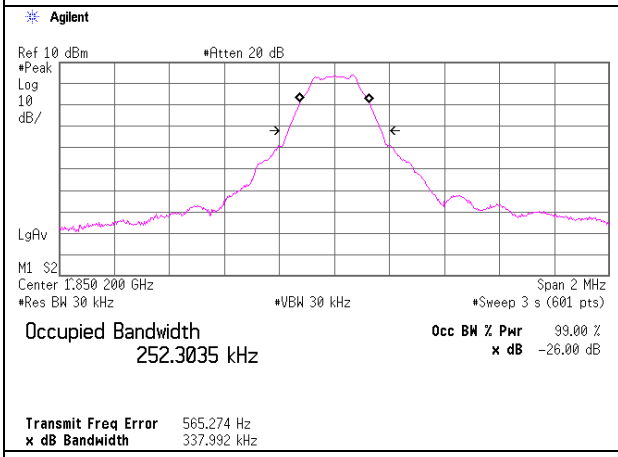
Tx:1909.8MHz



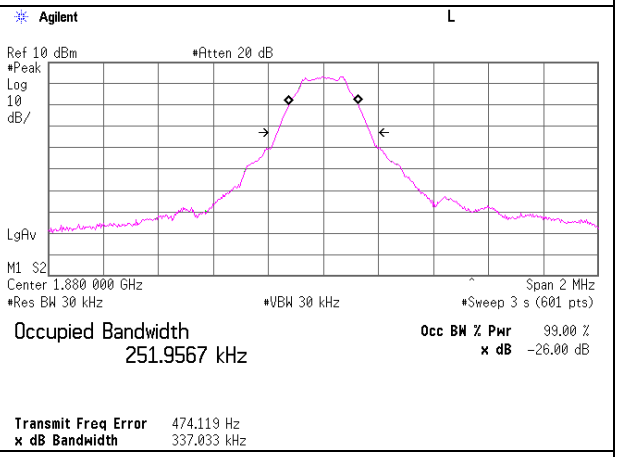
99%Occupied Bandwidth

<PCS1900+EGPRS>

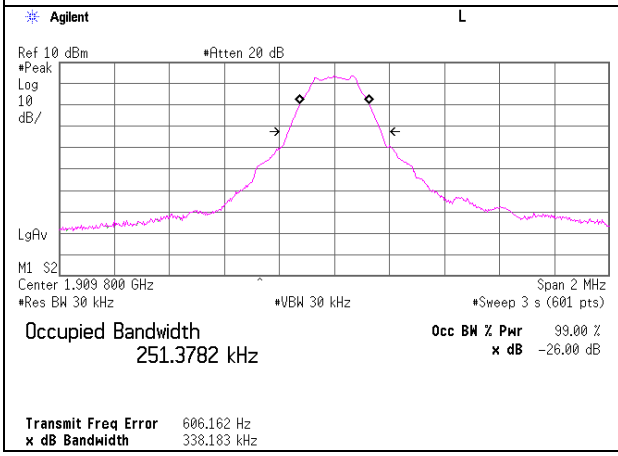
Tx:1850.2MHz



Tx:1880.0MHz



Tx:1909.8MHz



Band Edge(Conducted)

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	SHARP CORPORATION	REPORT NO	26CE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	FCC Part24 Section 24.238(b)
MODEL	PV200E	TEST METHOD	FCC Part2 Section 2.1049
S/N	5	TEST DISTANCE	-
POWER	DC3.9V (AC120V/60Hz)	DATE	March 24, 2006/April 17, 2006
MODE	Tx PCL=0(MAX Pow)	TEMPERATURE	24℃/22℃
		HUMIDITY	34%/36%
		ENGINEER	Yutaka Yoshida

VIDEO AV 30 times

<PCS1900>

Frequency [MHz]	Reading [dBm]	Atten. [dB]	Cable Loss [dB]	Result [dBm]	Limit [dBm]	Margine [dB]
1849.99	-39.4	20.0	4.0	-15.4	-13.0	2.4
1910.02	-38.4	20.0	4.0	-14.4	-13.0	1.4

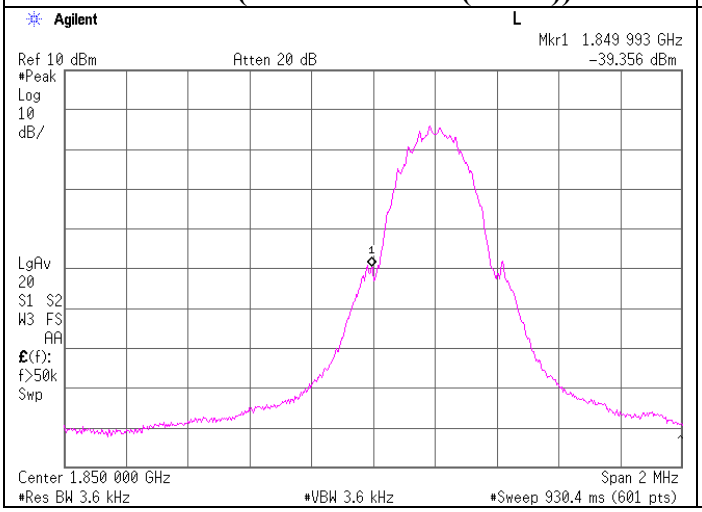
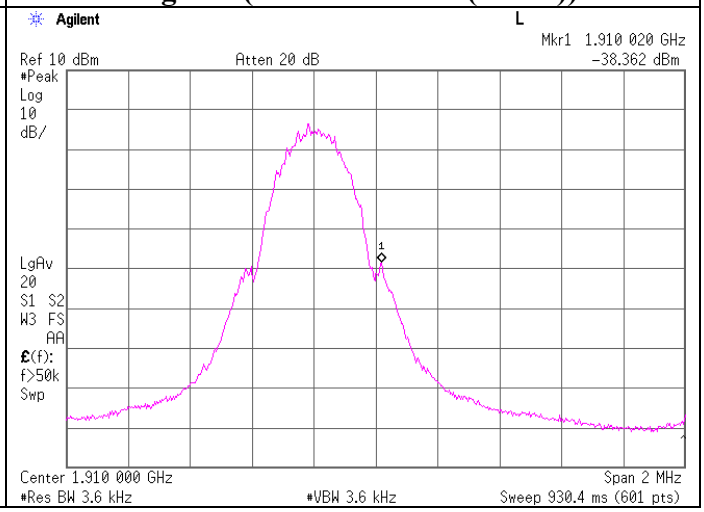
<PCS1900+EGPRS>

Frequency [MHz]	Reading [dBm]	Atten. [dB]	Cable Loss [dB]	Result [dBm]	Limit [dBm]	Margine [dB]
1849.98	-38.9	20.0	4.0	-14.9	-13.0	1.9
1910.02	-38.9	20.0	4.0	-14.9	-13.0	1.9

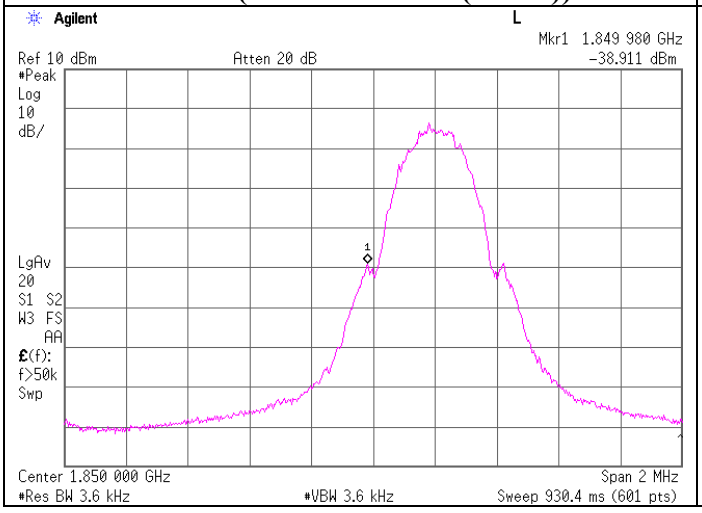
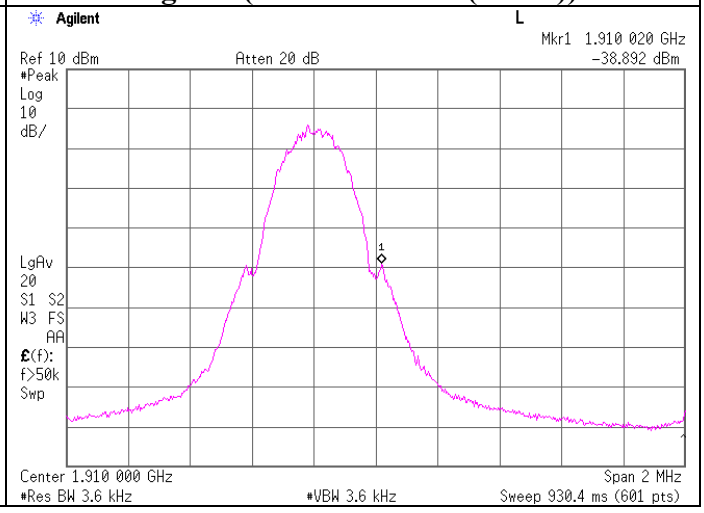
Sample Calculation : Result = Reading + Atten. + Cable Loss

Band Edge(Conducted)

<PCS1900>

Low ch (Tx:1850.2MHz (512ch))	High ch (Tx:1909.8MHz (810ch))
	

<PCS1900+EGPRS>

Low ch (Tx:1850.2MHz (512ch))	High ch (Tx:1909.8MHz (810ch))
	

Band Edge (Radiated)

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

COMPANY	Sharp corporation	REPORT NO	26CE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	FCC Part24 Section 24.238(b)
MODEL	PV200E	TEST METHOD	FCC Part2 Section 2.1049
S/N	5	TEST DISTANCE	3m
POWER	DC3.9V(AC120V/60Hz)	DATE	August 10, 2006
MODE	Tx PCL=0(MAX Pow)	TEMPERATURE	25℃
		HUMIDITY	63%
POSITION	H:Y-axis / V:Z-axis	CALIBRATION	OK
		ENGINEER	Yutaka Yoshida

<PCS1900> (No.1 Semi Anechoic Chamber)

No.	FREQ	SG READING HOR [dBm]	SG READING VER [dBm]	CABLE LOSS [dB]	ANT GAIN [dBi]	ATTEN [dB]	RESULT HOR [dBm]	RESULT VER [dBm]	LIMITS (EIRP) [dBm]	MARGIN HOR [dB]	MARGIN VER [dB]
1	1850.00	-24.2	-23.9	2.6	9.4	0.0	-17.4	-17.1	-13.0	4.4	4.1
2	1910.02	-24.2	-25.9	2.6	9.7	0.0	-17.2	-18.8	-13.0	4.2	5.8

<PCS1900+EGPRS> (No.1 Semi Anechoic Chamber)

No.	FREQ	SG READING HOR [dBm]	SG READING VER [dBm]	CABLE LOSS [dB]	ANT GAIN [dBi]	ATTEN [dB]	RESULT HOR [dBm]	RESULT VER [dBm]	LIMITS (EIRP) [dBm]	MARGIN HOR [dB]	MARGIN VER [dB]
1	1850.00	-24.5	-23.9	2.6	9.4	0.0	-17.7	-17.1	-13.0	4.7	4.1
2	1910.00	-25.0	-25.0	2.6	9.7	0.0	-17.9	-17.9	-13.0	4.9	4.9

Result calculation:SG READING-CABLE LOSS+ANT.GAIN-ATTEN
Rx-ANTENNA : Biconical Antena(30-300MHz), Logperriodic Antenna(300-1000MHz), Horn Antenna(1-19GHz)
Tx-ANTENNA : Shorted Dipole Antenna(30-120MHz), Dipole Antenna(120-1000MHz), Horn Anrenna(1-19GHz)
The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

S/A PK (RBW: 3.6kHz , VBW:3.6kHz)

Spurious Emission (Conducted)

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	SHARP CORPORATION	REPORT NO	26HE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	Fcc Part 24 Section 24.238(a)
MODEL	PV200E	TEST METHOD	Fcc Part 2 Section 2.1051
S/N	5	TEST DISTANCE	-
POWER	DC3.9V (AC120V/60Hz)	DATE	March 24, 2006
MODE	Tx PCL=0(MAX Pow)	TEMPERATURE	24℃
		HUMIDITY	34%
		ENGINEER	Yutaka Yoshida

Limit Line

<PCS1900>

Limit [dBm]	Atten. [dB]	Cable Loss [dB]	Limit Line [dBm]
-13.0	20.0	1.9	-34.9

<PCS1900+EGPRS>

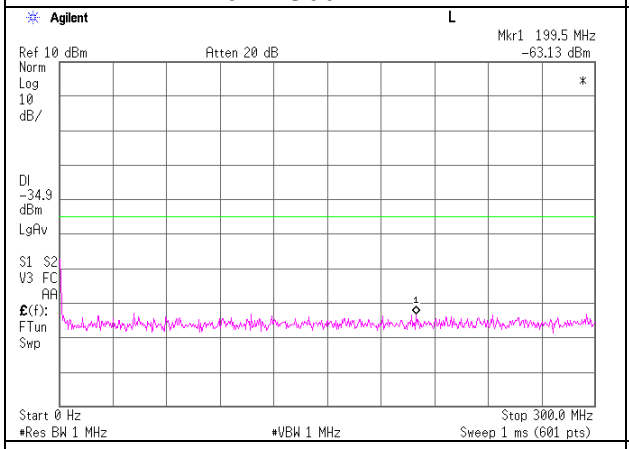
Limit [dBm]	Atten. [dB]	Cable Loss [dB]	Limit Line [dBm]
-13.0	20.0	4.0	-37.0

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

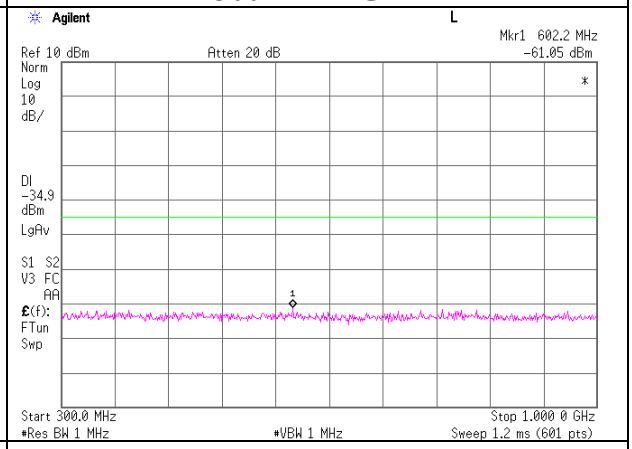
Result OK

Spurious Emission (Conducted)
PCS1900 / Tx:1850.2MHz

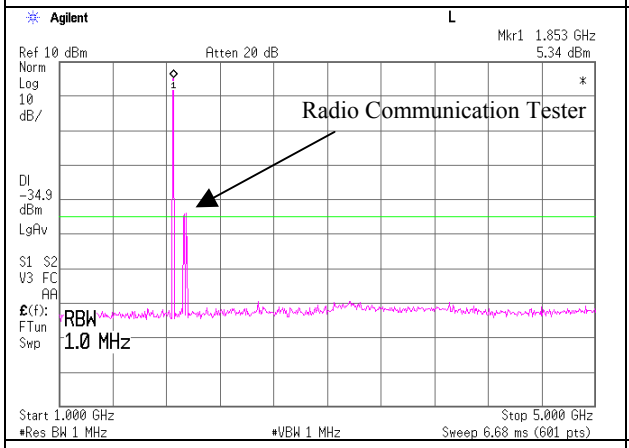
0Hz-300MHz



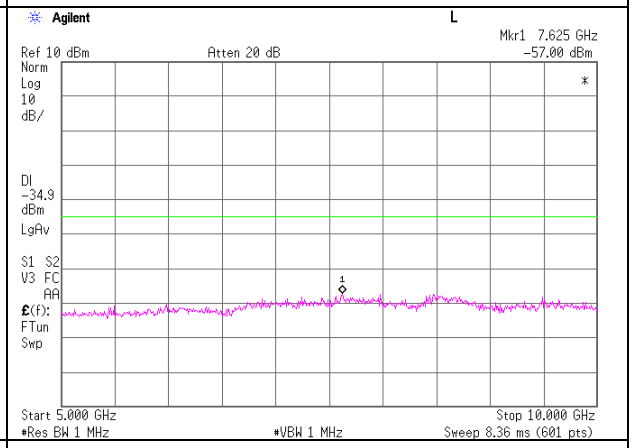
300MHz-1GHz



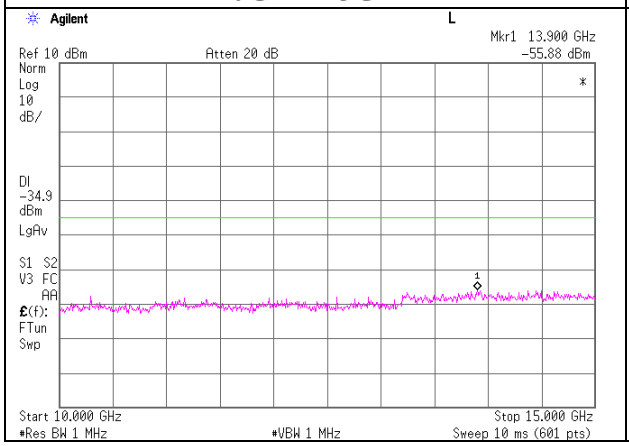
1GHz-5GHz



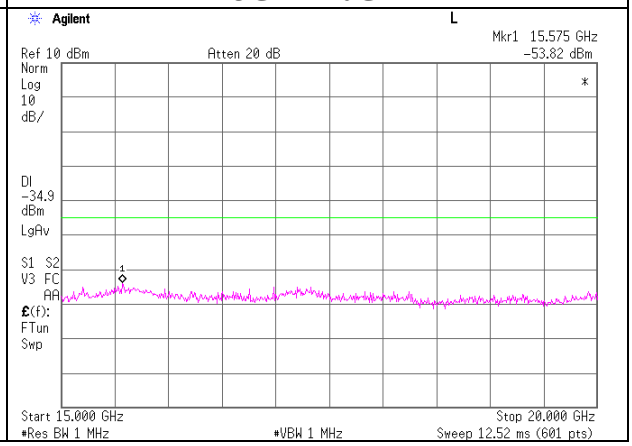
5GHz-10GHz



10GHz-15GHz

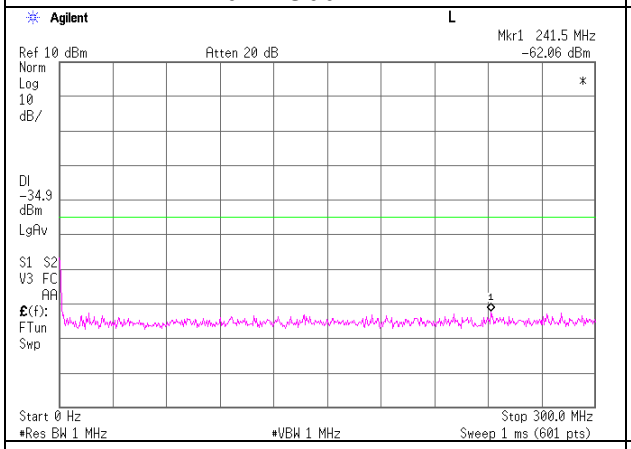


15GHz-20GHz

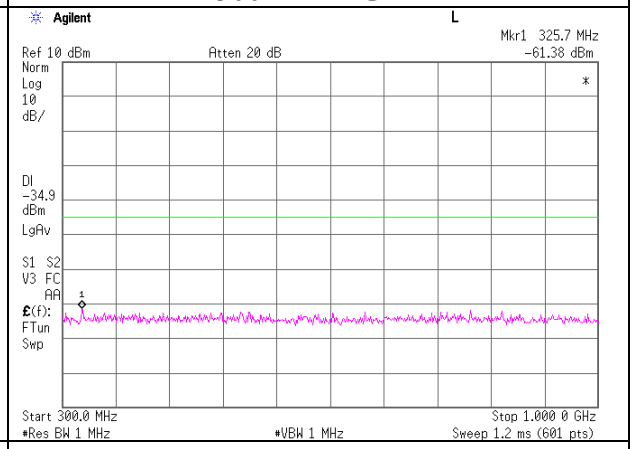


Spurious Emission (Conducted)
PCS1900 / Tx:1880.0MHz

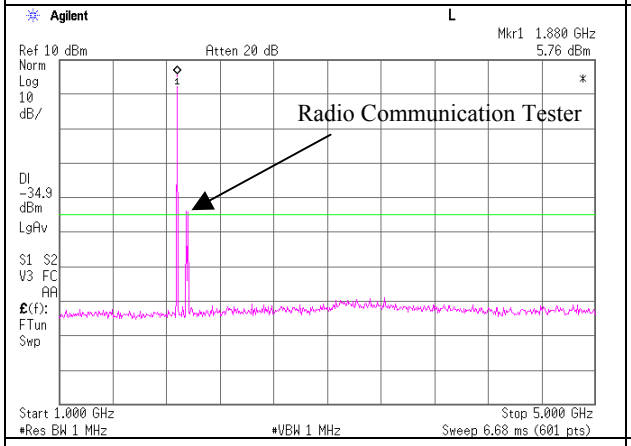
0Hz-300MHz



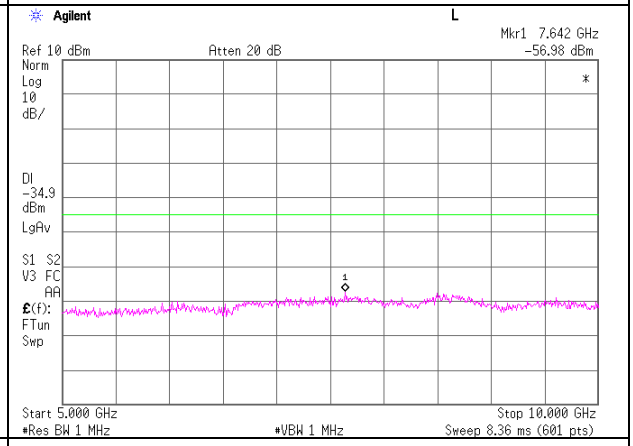
300MHz-1GHz



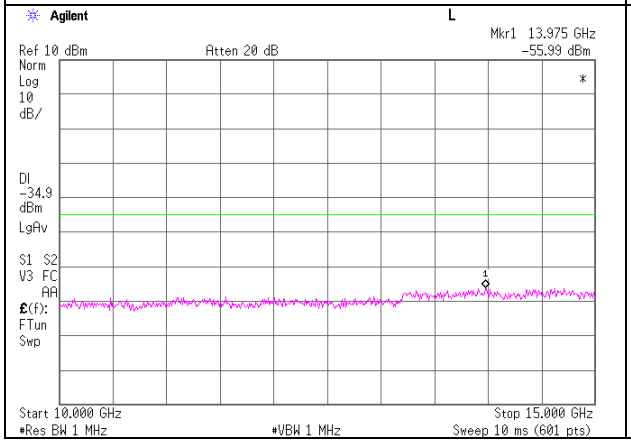
1GHz-5GHz



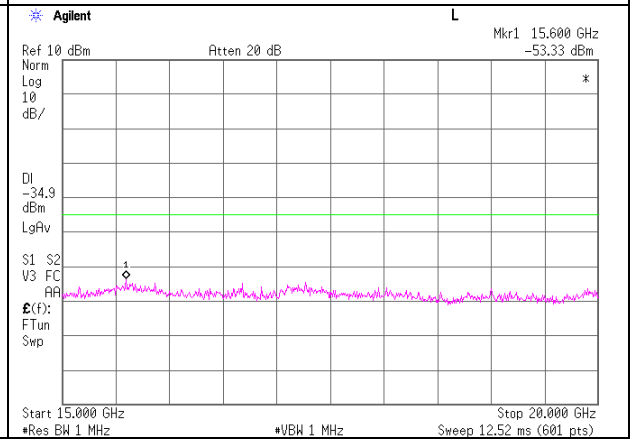
5GHz-10GHz



10GHz-15GHz

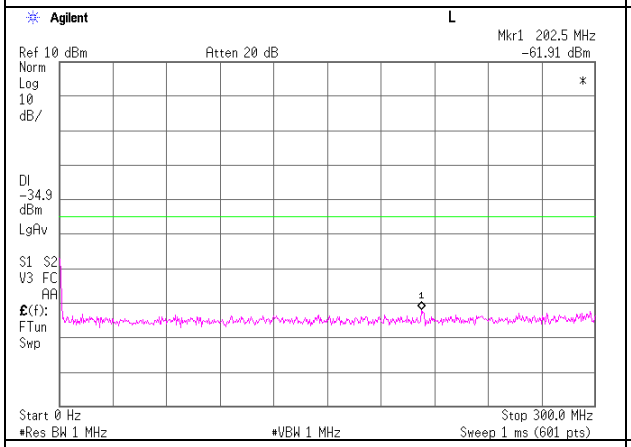


15GHz-20GHz

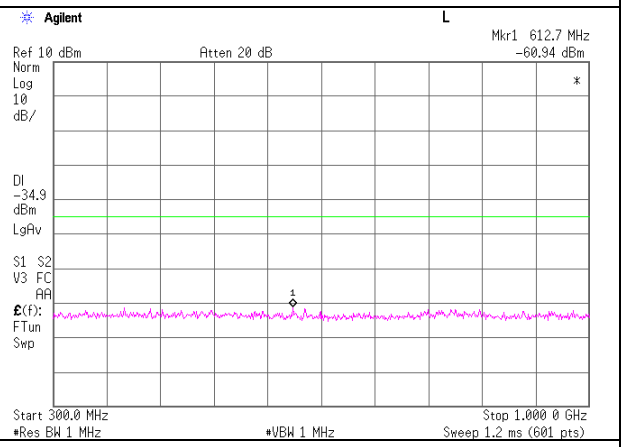


Spurious Emission (Conducted)
PCS1900 / Tx:1909.8MHz

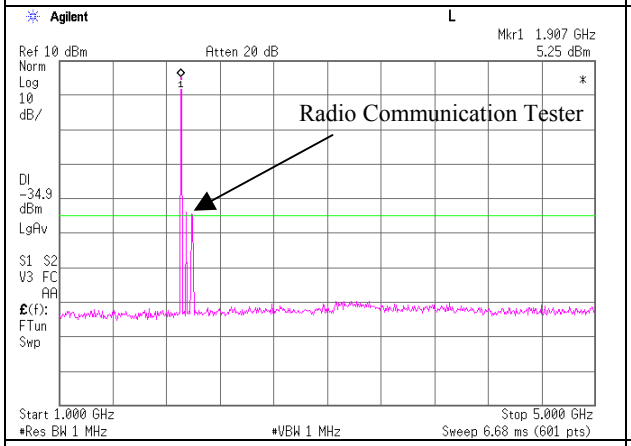
0Hz-300MHz



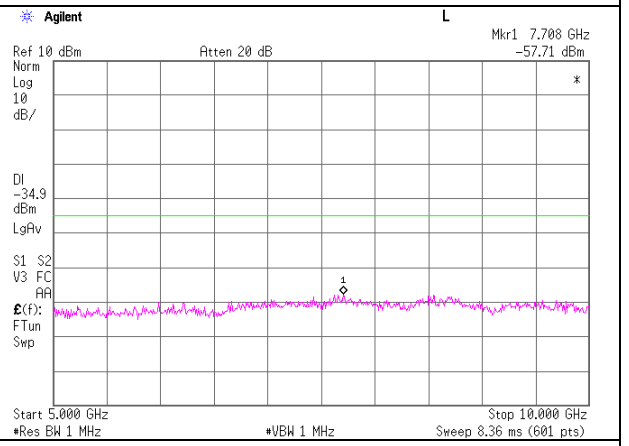
300MHz-1GHz



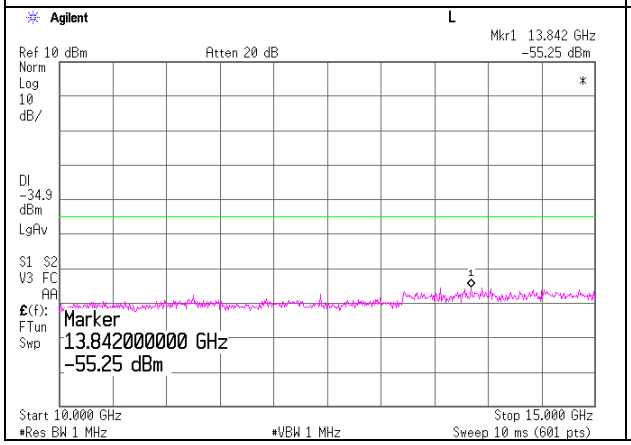
1GHz-5GHz



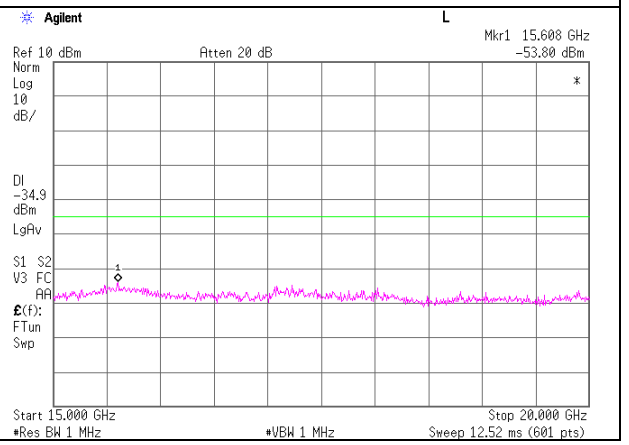
5GHz-10GHz



10GHz-15GHz

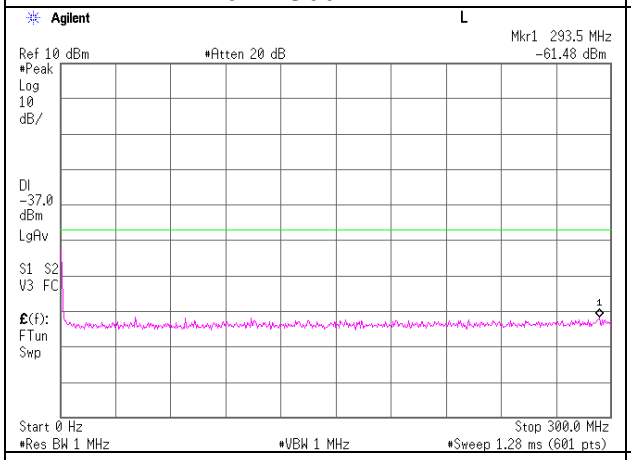


15GHz-20GHz

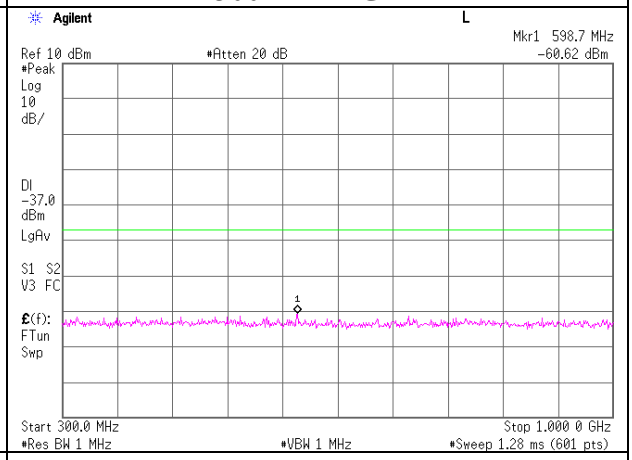


Spurious Emission (Conducted)
PCS1900+EGPRS / Tx:1850.2MHz

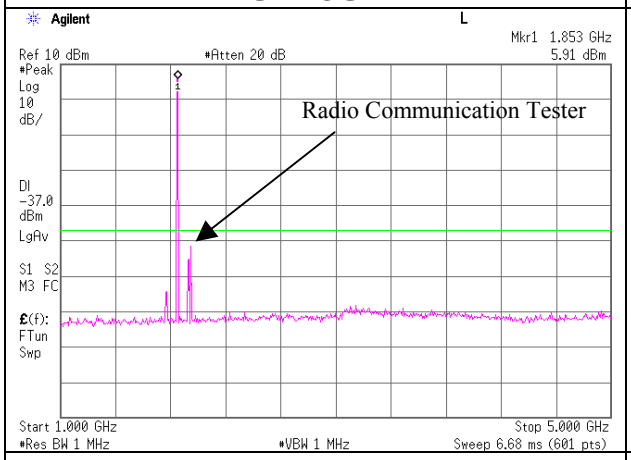
0Hz-300MHz



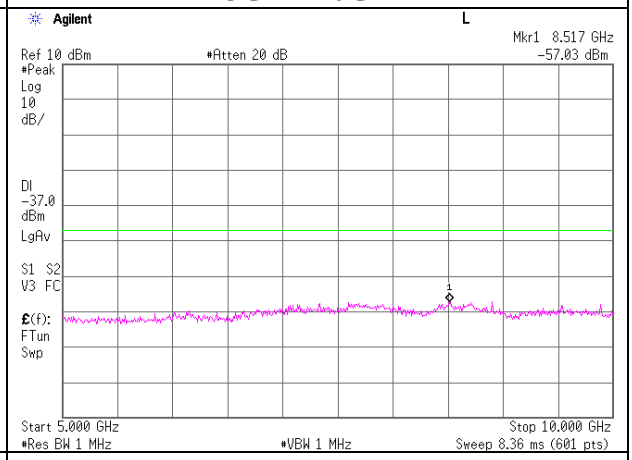
300MHz-1GHz



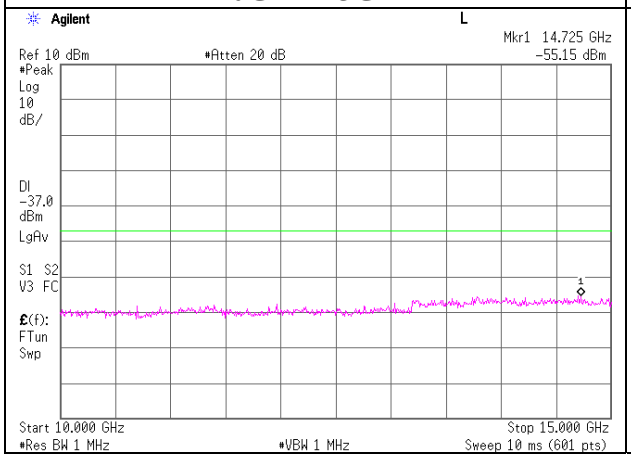
1GHz-5GHz



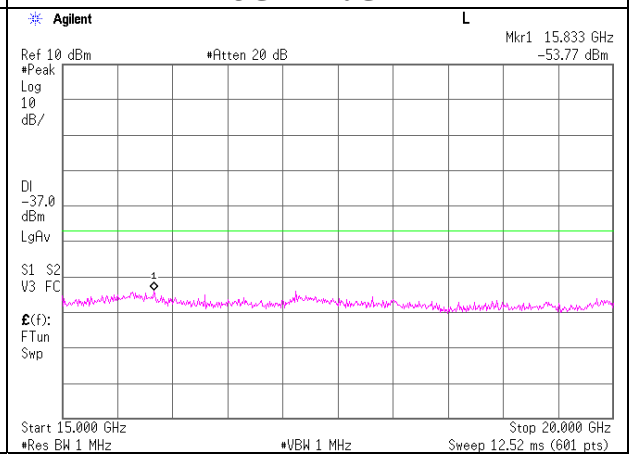
5GHz-10GHz



10GHz-15GHz

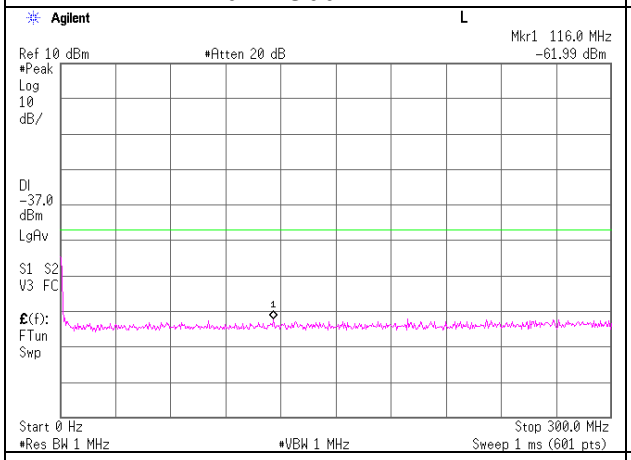


15GHz-20GHz

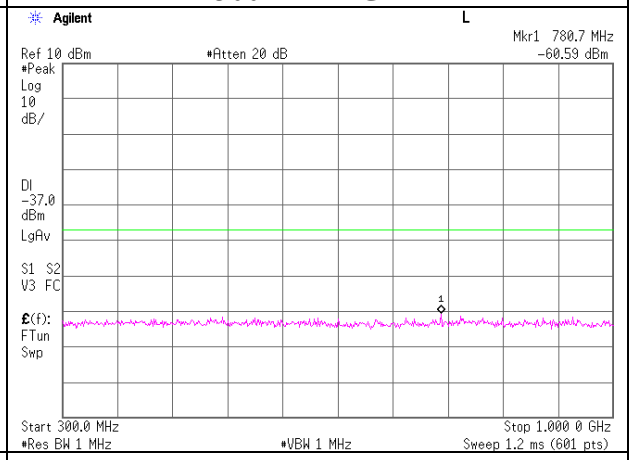


Spurious Emission (Conducted)
PCS1900+EGPRS / Tx:1880.0MHz

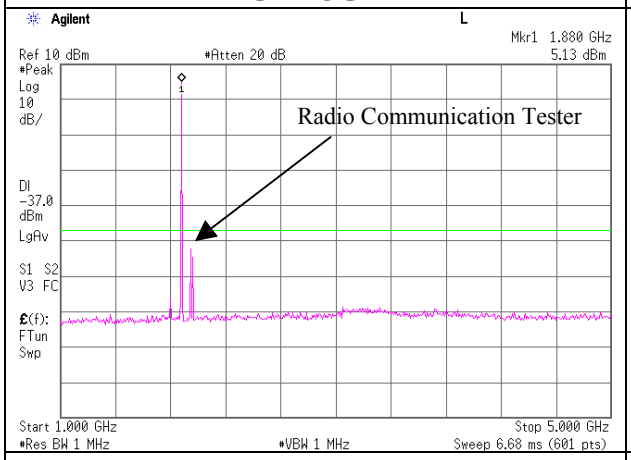
0Hz-300MHz



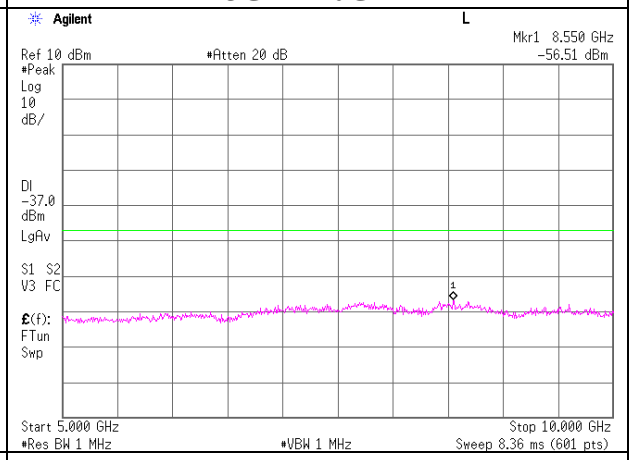
300MHz-1GHz



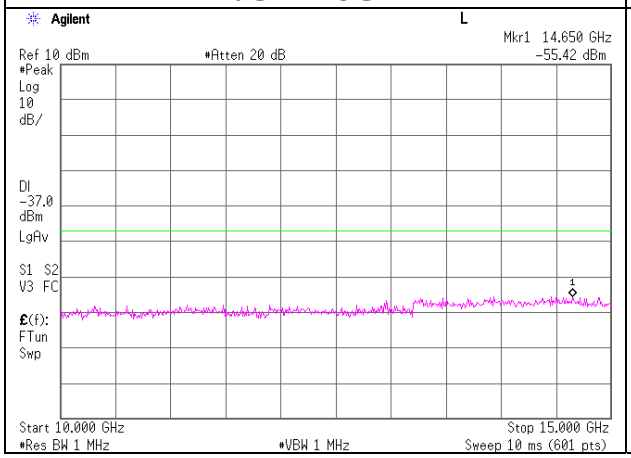
1GHz-5GHz



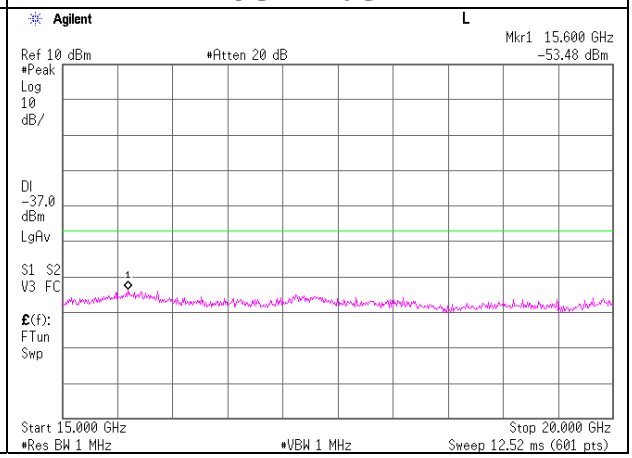
5GHz-10GHz



10GHz-15GHz

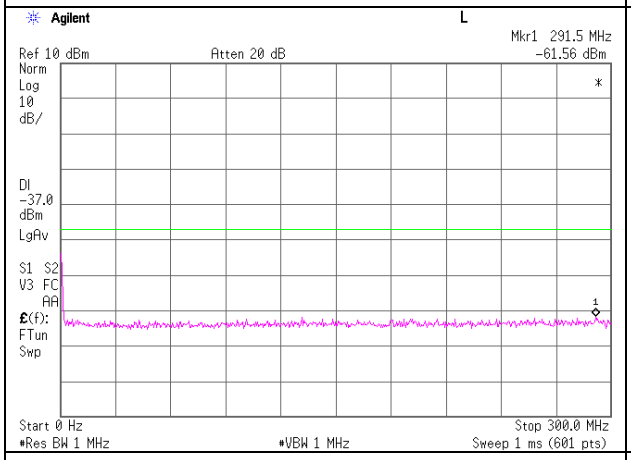


15GHz-20GHz

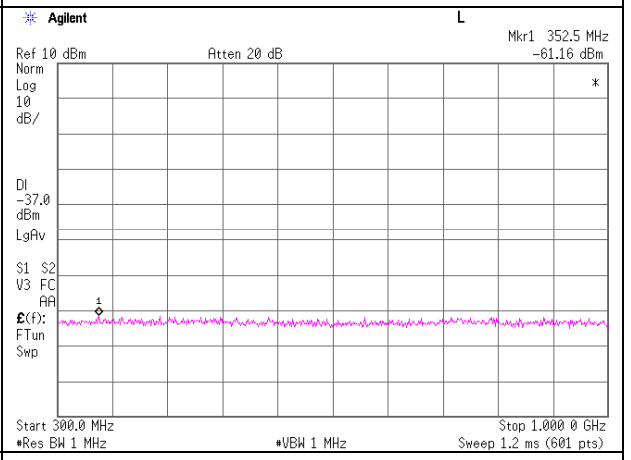


Spurious Emission (Conducted)
PCS1900+EGPRS / Tx:1909.8MHz

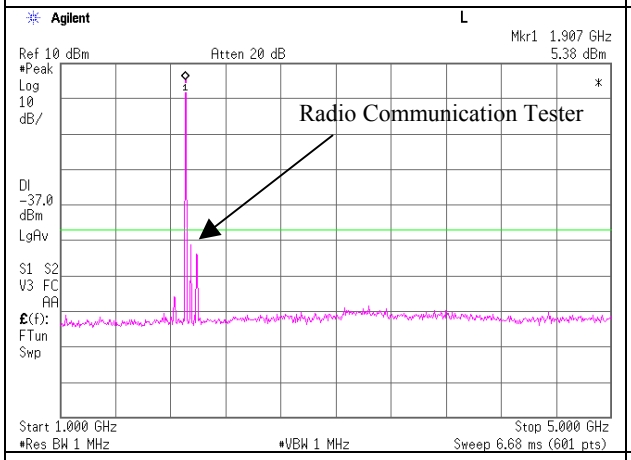
0Hz-300MHz



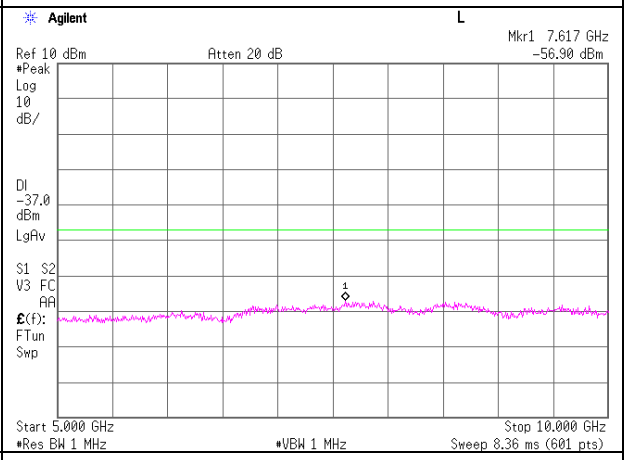
300MHz-1GHz



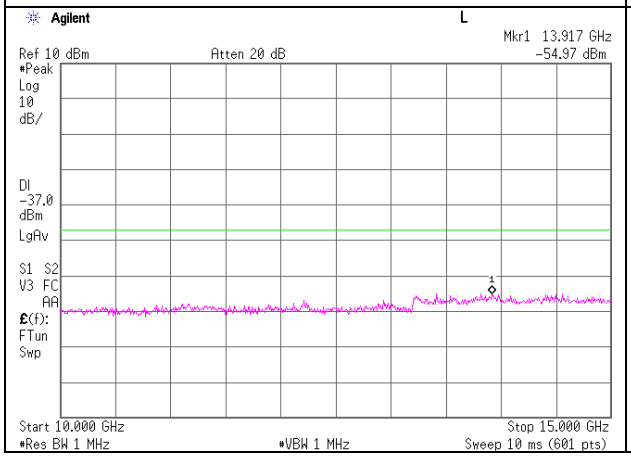
1GHz-5GHz



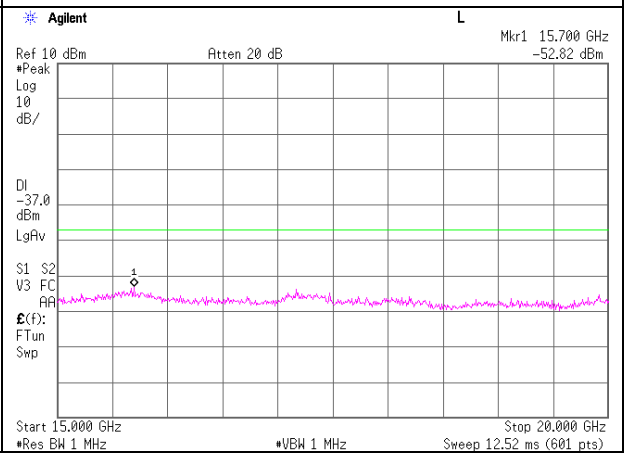
5GHz-10GHz



10GHz-15GHz



15GHz-20GHz



Spurious Radiation

UL Apex Co., Ltd.
Head Office EMC Lab. Semi Anechoic Chamber : No3
No1

COMPANY	Sharp corporation	REPORT NO	26CE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	FCC Part 24 Section 24.232(b)
MODEL	PV200E	TEST DISTANCE	3m(below10GHz)/1m(above10GHz)
S/N	5	DATE	August 10, 2006
POWER	AC120V / 60Hz (AC Adapter)	TEMPERATURE	25 deg.C.
MODE	Tx 1850.2 MHz ch:512	HUMIDITY	63%
	GSM Mode (PCS1900)	CALIBRATION	OK
POSITION	H: Y-axis / V: Z-axis	ENGINEER	Yutaka Yoshida
Tx Antenna Height	0.8m		

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	Remarks
		HOR	VER	HOR	VER				HOR	VER		HOR	VER			
1	60.15	25.3	31.6	-47.0	-39.6	0.5	-14.3	10.7	-72.5	-65.1	-13.0	59.5	52.1	Operating	No3	
2	79.95	41.9	34.3	-37.2	-41.7	0.5	-7.8	9.4	-54.8	-59.3	-13.0	41.8	46.3	Operating	No3	
3	92.10	43.9	34.6	-40.4	-46.8	0.5	-4.2	9.4	-54.6	-60.9	-13.0	41.6	47.9	Operating	No3	
4	99.75	37.6	29.8	-49.8	-54.8	0.6	-1.9	9.7	-62.1	-67.1	-13.0	49.1	54.1	Operating	No3	
5	154.65	42.1	32.3	-48.9	-53.7	0.6	2.2	9.7	-57.0	-61.9	-13.0	44.0	48.9	Operating	No3	
6	216.30	39.0	33.9	-51.7	-53.5	0.8	2.2	10.1	-60.4	-62.3	-13.0	47.4	49.3	Operating	No3	
7	3700.40	58.7	54.8	-52.7	-56.5	3.8	11.9	0.0	-44.5	-48.3	-13.0	31.5	35.3	Operating	No1	
8	5550.60	65.3	61.7	-47.5	-51.2	4.3	13.1	0.0	-38.7	-42.4	-13.0	25.7	29.4	Operating	No1	
9	7400.80	53.5	54.1	-52.8	-51.3	5.7	11.7	0.0	-46.8	-45.3	-13.0	33.8	32.3	Operating	No1	
10	9251.00	51.8	52.9	-50.9	-51.3	6.1	11.8	0.0	-45.2	-45.5	-13.0	32.2	32.5	Operating	No1	
11	11101.20	66.1	62.8	-42.1	-45.2	7.1	11.8	0.0	-37.5	-40.5	-13.0	24.5	27.5	Operating	No3	
12	12951.40	73.2	70.5	-36.1	-39.5	8.9	14.0	0.0	-31.1	-34.5	-13.0	18.1	21.5	Operating	No3	
13	14801.60	65.8	62.6	-49.3	-52.1	8.3	13.5	0.0	-44.2	-47.0	-13.0	31.2	34.0	Operating	No3	
14	16651.80	66.0	64.2	-49.6	-50.9	9.0	16.1	0.0	-42.5	-43.8	-13.0	29.5	30.8	Operating	No3	
15	18502.00	56.7	57.8	-48.7	-47.5	12.3	16.6	0.0	-44.4	-43.2	-13.0	31.4	30.2	Operating	No3	

CALCULATION:READING(SG)-LOSS(CABLE)+ANT.GAIN-ATTEN

Rx-ANTENNA : Biconical Antenna(30-300MHz), Logperriodic Antenna(300-1000MHz), Horn Antenna(1-19GHz)

Tx-ANTENNA : Shorted Dipole Antenna(30-120MHz), Dipole Antenna(120-1000MHz), Horn Antenna(1-19GHz)

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

*The noise level was too low to detect.

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

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

Spurious Radiation

UL Apex Co., Ltd.
Head Office EMC Lab. Semi Anechoic Chamber : No3
No1

COMPANY	Sharp corporation	REPORT NO	26CE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	FCC Part 24 Section 24.232(b)
MODEL	PV200E	TEST DISTANCE	3m(below10GHz)/1m(above10GHz)
S/N	5	DATE	August 10, 2006
POWER	AC120V / 60Hz (AC Adapter)	TEMPERATURE	25 deg.C.
MODE	Tx 1880 MHz ch:661	HUMIDITY	63%
	GSM Mode (PCS1900)	CALIBRATION	OK
POSITION	H: Y-axis / V: Z-axis	ENGINEER	Yutaka Yoshida
Tx Antenna Height	0.8m		

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	Remarks
		HOR	VER	HOR	VER				HOR	VER		HOR	VER			
1	79.95	41.6	33.6	-37.5	-42.4	0.5	-7.8	9.4	-55.1	-60.0	-13.0	42.1	47.0	Operating	No3	
2	84.00	35.3	26.1	-45.6	-51.7	0.5	-6.6	9.4	-62.0	-68.1	-13.0	49.0	55.1	Operating	No3	
3	92.10	44.0	33.3	-40.3	-48.1	0.5	-4.2	9.4	-54.5	-62.2	-13.0	41.5	49.2	Operating	No3	
4	100.20	37.8	29.2	-49.8	-55.5	0.6	-1.8	9.8	-61.9	-67.7	-13.0	48.9	54.7	Operating	No3	
5	158.25	42.9	34.8	-48.0	-51.3	0.6	2.2	9.6	-56.1	-59.3	-13.0	43.1	46.3	Operating	No3	
6	221.70	43.5	33.4	-46.9	-53.9	0.8	2.2	10.0	-55.6	-62.6	-13.0	42.6	49.6	Operating	No3	
7	3760.00	64.1	60.7	-44.0	-47.6	3.6	11.9	0.0	-35.6	-39.2	-13.0	22.6	26.2	Operating	No3	
8	5640.00	61.2	60.6	-47.1	-47.8	4.9	12.9	0.0	-39.1	-39.8	-13.0	26.1	26.8	Operating	No3	
9	7520.00	54.2	56.1	-48.7	-46.4	6.0	11.4	0.0	-43.3	-41.0	-13.0	30.3	28.0	Operating	No3	
10	9400.00	53.1	52.9	-47.1	-49.2	6.6	11.3	0.0	-42.4	-44.5	-13.0	29.4	31.5	Operating	No3	
11	11280.00	66.4	60.3	-42.2	-48.2	7.3	12.0	0.0	-37.5	-43.5	-13.0	24.5	30.5	Operating	No3	
12	13160.00	71.8	67.3	-38.2	-43.0	8.9	13.3	0.0	-33.8	-38.6	-13.0	20.8	25.6	Operating	No3	
13	15040.00	60.8	62.9	-54.7	-52.6	8.4	14.6	0.0	-48.5	-46.3	-13.0	35.5	33.3	Operating	No3	
14	16920.00	67.5	65.8	-47.8	-48.5	9.2	15.2	0.0	-41.8	-42.6	-13.0	28.8	29.6	Operating	No3	
15	18800.00	57.3	57.7	-47.9	-47.5	12.4	16.6	0.0	-43.7	-43.3	-13.0	30.7	30.3	Operating	No3	

CALCULATION:READING(SG)-LOSS(CABLE)+ANT.GAIN-ATTEN

Rx-ANTENNA : Biconical Antenna(30-300MHz), Logperriodic Antenna(300-1000MHz), Horn Antenna(1-19GHz)

Tx-ANTENNA : Shorted Dipole Antenna(30-120MHz), Dipole Antenna(120-1000MHz), Horn Antenna(1-19GHz)

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

*The noise level was too low to detect.

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

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

Spurious Radiation

UL Apex Co., Ltd.
Head Office EMC Lab. Semi Anechoic Chamber : No3
No1

COMPANY	Sharp corporation	REPORT NO	26CE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	FCC Part 24 Section 24.232(b)
MODEL	PV200E	TEST DISTANCE	3m(below10GHz)/1m(above10GHz)
S/N	5	DATE	August 10, 2006
POWER	AC120V / 60Hz (AC Adapter)	TEMPERATURE	25 deg.C.
MODE	Tx 1909.8 MHz ch:810	HUMIDITY	63%
	GSM Mode (PCS1900)	CALIBRATION	OK
POSITION	H: Y-axis / V: Z-axis	ENGINEER	Yutaka Yoshida
Tx Antenna Height	0.8m		

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	Remarks
		HOR	VER	HOR	VER				HOR	VER		HOR	VER			
1	60.15	24.5	31.7	-47.8	-39.5	0.5	-14.3	10.7	-73.3	-65.0	-13.0	60.3	52.0	Operating	No3	
2	79.95	41.9	33.7	-37.2	-42.3	0.5	-7.8	9.4	-54.8	-59.9	-13.0	41.8	46.9	Operating	No3	
3	92.10	43.9	34.7	-40.4	-46.7	0.5	-4.2	9.4	-54.6	-60.8	-13.0	41.6	47.8	Operating	No3	
4	99.75	37.9	29.6	-49.5	-55.0	0.6	-1.9	9.7	-61.8	-67.3	-13.0	48.8	54.3	Operating	No3	
5	158.25	42.2	33.8	-48.7	-52.3	0.6	2.2	9.6	-56.8	-60.3	-13.0	43.8	47.3	Operating	No3	
6	219.00	39.6	33.9	-50.9	-53.5	0.8	2.2	10.0	-59.7	-62.2	-13.0	46.7	49.2	Operating	No3	
7	3819.60	60.8	57.2	-47.3	-51.1	3.6	12.0	0.0	-38.9	-42.7	-13.0	25.9	29.7	Operating	No3	
8	5729.40	58.6	60.4	-49.6	-47.9	5.0	13.0	0.0	-41.6	-39.9	-13.0	28.6	26.9	Operating	No3	
9	7639.20	58.0	56.8	-44.6	-45.5	6.0	11.3	0.0	-39.4	-40.3	-13.0	26.4	27.3	Operating	No3	
10	9549.00	52.1	53.6	-48.0	-48.4	6.5	11.2	0.0	-43.3	-43.7	-13.0	30.3	30.7	Operating	No3	
11	11458.80	68.7	61.2	-40.4	-47.8	7.4	12.2	0.0	-35.6	-43.0	-13.0	22.6	30.0	Operating	No3	
12	13368.60	70.1	66.3	-40.8	-44.5	8.7	12.3	0.0	-37.2	-40.8	-13.0	24.2	27.8	Operating	No3	
13	15278.40	59.6	60.1	-56.2	-55.7	8.3	15.5	0.0	-49.0	-48.6	-13.0	36.0	35.6	Operating	No3	
14	17188.20	65.8	65.8	-48.9	-47.5	9.3	13.8	0.0	-44.4	-43.0	-13.0	31.4	30.0	Operating	No3	
15	19098.00	56.6	57.8	-48.5	-47.4	12.5	16.6	0.0	-44.4	-43.3	-13.0	31.4	30.3	Operating	No3	

CALCULATION:READING(SG)-LOSS(CABLE)+ANT.GAIN-ATTEN

Rx-ANTENNA : Biconical Antenna(30-300MHz), Logperriodic Antenna(300-1000MHz), Horn Antenna(1-19GHz)

Tx-ANTENNA : Shorted Dipole Antenna(30-120MHz), Dipole Antenna(120-1000MHz), Horn Antenna(1-19GHz)

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

*The noise level was too low to detect.

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

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

Spurious Radiation

UL Apex Co., Ltd.
Head Office EMC Lab. Semi Anechoic Chamber : No3
No1

COMPANY	Sharp corporation	REPORT NO	26CE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	FCC Part 24 Section 24.232(b)
MODEL	PV200E	TEST DISTANCE	3m(below10GHz)/1m(above10GHz)
S/N	5	DATE	August 10, 2006
POWER	AC120V / 60Hz (AC Adapter)	TEMPERATURE	25 deg.C.
MODE	Tx 1850.2 MHz ch:512	HUMIDITY	63%
	EGPRS Mode	CALIBRATION	OK
POSITION	H: Y-axis / V: Z-axis	ENGINEER	Yutaka Yoshida
Tx Antenna Height	0.8m		

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	Remarks
		HOR	VER	HOR	VER				HOR	VER		HOR	VER			
1	59.25	25.0	33.8	-46.7	-36.9	0.5	-14.7	10.7	-72.5	-62.7	-13.0	59.5	49.7	Operating	No3	
2	71.85	36.8	29.2	-40.1	-45.5	0.5	-10.6	10.0	-61.2	-66.6	-13.0	48.2	53.6	Operating	No3	
3	79.95	43.6	36.4	-35.5	-39.6	0.5	-7.8	9.4	-53.1	-57.2	-13.0	40.1	44.2	Operating	No3	
4	84.00	36.7	28.4	-44.2	-49.4	0.5	-6.6	9.4	-60.6	-65.8	-13.0	47.6	52.8	Operating	No3	
5	92.10	34.9	26.9	-49.4	-54.5	0.5	-4.2	9.4	-63.6	-68.6	-13.0	50.6	55.6	Operating	No3	
6	174.45	24.1	38.0	-67.0	-47.0	0.7	2.2	9.7	-75.3	-55.3	-13.0	62.3	42.3	Operating	No3	
7	3700.40	59.9	56.8	-51.5	-54.5	3.8	11.9	0.0	-43.3	-46.3	-13.0	30.3	33.3	Operating	No1	
8	5550.60	66.2	62.8	-46.6	-50.1	4.3	13.1	0.0	-37.8	-41.3	-13.0	24.8	28.3	Operating	No1	
9	7400.80	53.4	53.4	-52.9	-52.0	5.7	11.7	0.0	-46.9	-46.0	-13.0	33.9	33.0	Operating	No1	
10	9251.00	52.5	52.8	-50.2	-51.4	6.1	11.8	0.0	-44.5	-45.6	-13.0	31.5	32.6	Operating	No1	
11	11101.20	65.0	57.5	-43.2	-50.5	7.1	11.8	0.0	-38.6	-45.8	-13.0	25.6	32.8	Operating	No3	
12	12951.40	71.3	69.5	-38.0	-40.5	8.9	14.0	0.0	-33.0	-35.5	-13.0	20.0	22.5	Operating	No3	
13	14801.60	62.9	61.8	-52.2	-52.9	8.3	13.5	0.0	-47.1	-47.8	-13.0	34.1	34.8	Operating	No3	
14	16651.80	65.2	65.2	-50.4	-49.9	9.0	16.1	0.0	-43.3	-42.8	-13.0	30.3	29.8	Operating	No3	
15	18502.00	57.0	56.5	-48.4	-48.8	12.3	16.6	0.0	-44.1	-44.5	-13.0	31.1	31.5	Operating	No3	

CALCULATION:READING(SG)-LOSS(CABLE)+ANT.GAIN-ATTEN

Rx-ANTENNA : Biconical Antenna(30-300MHz), Logperriodic Antenna(300-1000MHz), Horn Antenna(1-19GHz)

Tx-ANTENNA : Shorted Dipole Antenna(30-120MHz), Dipole Antenna(120-1000MHz), Horn Antenna(1-19GHz)

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

*The noise level was too low to detect.

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

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

Spurious Radiation

UL Apex Co., Ltd.
Head Office EMC Lab. Semi Anechoic Chamber : No3
No1

COMPANY	Sharp corporation	REPORT NO	26CE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	FCC Part 24 Section 24.232(b)
MODEL	PV200E	TEST DISTANCE	3m(below10GHz/1m(above10GHz)
S/N	5	DATE	August 10, 2006
POWER	AC120V / 60Hz (AC Adapter)	TEMPERATURE	25 deg.C.
MODE	Tx 1880 MHz ch:661	HUMIDITY	63%
	EGPRS Mode	CALIBRATION	OK
POSITION	H: Y-axis / V: Z-axis	ENGINEER	Yutaka Yoshida
Tx Antenna Height	0.8m		

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	Remarks
		HOR	VER	HOR	VER				HOR	VER		HOR	VER			
1	59.70	24.9	33.5	-47.1	-37.4	0.5	-14.5	10.7	-72.8	-63.1	-13.0	59.8	50.1	Operating	No3	
2	103.35	31.6	28.8	-57.2	-56.3	0.6	-1.2	9.8	-68.7	-67.9	-13.0	55.7	54.9	Operating	No3	
3	122.70	29.6	32.5	-63.2	-52.2	0.7	2.2	10.1	-71.8	-60.8	-13.0	58.8	47.8	Operating	No3	
4	142.05	34.7	32.2	-57.6	-54.4	0.6	2.2	9.9	-66.0	-62.7	-13.0	53.0	49.7	Operating	No3	
5	183.00	35.7	35.7	-55.3	-49.7	0.7	2.2	10.0	-63.9	-58.2	-13.0	50.9	45.2	Operating	No3	
6	193.35	37.0	32.9	-54.4	-54.1	0.8	2.2	10.1	-63.1	-62.8	-13.0	50.1	49.8	Operating	No3	
7	3760.00	61.8	60.2	-49.9	-51.4	3.8	12.0	0.0	-41.7	-43.2	-13.0	28.7	30.2	Operating	No1	
8	5640.00	63.9	59.1	-48.9	-53.8	4.4	13.2	0.0	-40.1	-45.0	-13.0	27.1	32.0	Operating	No1	
9	7520.00	54.6	54.7	-51.0	-49.9	5.7	11.6	0.0	-45.1	-44.1	-13.0	32.1	31.1	Operating	No1	
10	9400.00	53.0	53.5	-49.2	-50.2	6.2	11.7	0.0	-43.7	-44.7	-13.0	30.7	31.7	Operating	No1	
11	11280.00	66.4	61.9	-42.2	-46.6	7.3	12.0	0.0	-37.5	-41.9	-13.0	24.5	28.9	Operating	No3	
12	13160.00	70.2	64.6	-39.8	-45.7	8.9	13.3	0.0	-35.4	-41.3	-13.0	22.4	28.3	Operating	No3	
13	15040.00	61.3	61.3	-54.2	-54.2	8.4	14.6	0.0	-48.0	-47.9	-13.0	35.0	34.9	Operating	No3	
14	16920.00	66.8	65.4	-48.5	-48.9	9.2	15.2	0.0	-42.5	-43.0	-13.0	29.5	30.0	Operating	No3	
15	18800.00	56.3	58.1	-48.9	-47.1	12.4	16.6	0.0	-44.7	-42.9	-13.0	31.7	29.9	Operating	No3	

CALCULATION:READING(SG)-LOSS(CABLE)+ANT.GAIN-ATTEN

Rx-ANTENNA : Biconical Antenna(30-300MHz), Logperriodic Antenna(300-1000MHz), Horn Antenna(1-19GHz)

Tx-ANTENNA : Shorted Dipole Antenna(30-120MHz), Dipole Antenna(120-1000MHz), Horn Antenna(1-19GHz)

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

*The noise level was too low to detect.

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

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

Spurious Radiation

UL Apex Co., Ltd.
Head Office EMC Lab. Semi Anechoic Chamber : No3
No1

COMPANY	Sharp corporation	REPORT NO	26CE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	FCC Part 24 Section 24.232(b)
MODEL	PV200E	TEST DISTANCE	3m(below10GHz)/1m(above10GHz)
S/N	5	DATE	August 10, 2006
POWER	AC120V / 60Hz (AC Adapter)	TEMPERATURE	25 deg.C.
MODE	Tx 1909.8 MHz ch:810	HUMIDITY	63%
	EGPRS Mode	CALIBRATION	OK
POSITION	H: Y-axis / V: Z-axis	ENGINEER	Yutaka Yoshida
Tx Antenna Height	0.8m		

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	Remarks
		HOR	VER	HOR	VER				HOR	VER		HOR	VER			
1	59.70	24.1	33.4	-47.9	-37.5	0.5	-14.5	10.7	-73.6	-63.2	-13.0	60.6	50.2	Operating	No3	
2	101.10	31.4	28.6	-56.5	-56.2	0.6	-1.6	9.8	-68.5	-68.2	-13.0	55.5	55.2	Operating	No3	
3	122.70	29.0	33.6	-63.8	-51.1	0.7	2.2	10.1	-72.4	-59.7	-13.0	59.4	46.7	Operating	No3	
4	142.50	35.2	31.4	-57.0	-55.1	0.6	2.2	9.9	-65.4	-63.5	-13.0	52.4	50.5	Operating	No3	
5	178.50	34.5	35.5	-56.5	-49.4	0.7	2.2	9.9	-64.9	-57.9	-13.0	51.9	44.9	Operating	No3	
6	253.20	36.2	35.3	-52.7	-51.1	0.9	2.2	9.9	-61.3	-59.8	-13.0	48.3	46.8	Operating	No3	
7	3819.60	59.8	54.9	-52.3	-57.1	3.8	12.1	0.0	-44.0	-48.8	-13.0	31.0	35.8	Operating	No1	
8	5729.40	60.7	62.1	-52.2	-50.8	4.4	13.3	0.0	-43.4	-42.0	-13.0	30.4	29.0	Operating	No1	
9	7639.20	57.4	51.7	-47.4	-52.2	5.8	11.5	0.0	-41.7	-46.5	-13.0	28.7	33.5	Operating	No1	
10	9549.00	54.3	51.1	-47.3	-52.1	6.3	11.6	0.0	-42.1	-46.8	-13.0	29.1	33.8	Operating	No1	
11	11458.80	68.6	61.3	-40.5	-47.7	7.4	12.2	0.0	-35.7	-42.9	-13.0	22.7	29.9	Operating	No3	
12	13368.60	66.8	62.7	-44.1	-48.1	8.7	12.3	0.0	-40.5	-44.4	-13.0	27.5	31.4	Operating	No3	
13	15278.40	61.0	59.8	-54.8	-56.0	8.3	15.5	0.0	-47.6	-48.9	-13.0	34.6	35.9	Operating	No3	
14	17188.20	66.1	66.2	-48.6	-47.1	9.3	13.8	0.0	-44.1	-42.6	-13.0	31.1	29.6	Operating	No3	
15	19098.00	56.6	58.0	-48.5	-47.2	12.5	16.6	0.0	-44.4	-43.1	-13.0	31.4	30.1	Operating	No3	

CALCULATION:READING(SG)-LOSS(CABLE)+ANT.GAIN-ATTEN

Rx-ANTENNA : Biconical Antenna(30-300MHz), Logperriodic Antenna(300-1000MHz), Horn Antenna(1-19GHz)

Tx-ANTENNA : Shorted Dipole Antenna(30-120MHz), Dipole Antenna(120-1000MHz), Horn Antenna(1-19GHz)

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

*The noise level was too low to detect.

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

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

Spusrious Radiation

UL Apex Co., Ltd.
Head Office EMC Lab. Semi Anechoic Chamber : No3
No1

COMPANY	Sharp corporation	REPORT NO	26CE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	FCC Part 24 Section 24.232(b)
MODEL	PV200E	TEST DISTANCE	3m(below10GHz)/1m(above10GHz)
S/N	5	DATE	August 10, 2006
POWER	AC120V / 60Hz (AC Adapter)	TEMPERATURE	25 deg.C.
MODE	Tx 1880 MHz ch:661	HUMIDITY	63%
	EGPRS+BT Mode	CALIBRATION	OK
POSITION	H: Y-axis / V: Z-axis	ENGINEER	Yutaka Yoshida
Tx Antenna Height	0.8m		

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	Remarks
		HOR	VER	HOR	VER				HOR	VER		HOR	VER			
1	60.15	27.3	33.1	-45.0	-38.1	0.5	-14.3	10.7	-70.5	-63.6	-13.0	57.5	50.6	Operating	No3	
2	71.85	41.2	38.9	-35.7	-35.8	0.5	-10.6	10.0	-56.8	-56.9	-13.0	43.8	43.9	Operating	No3	
3	79.95	44.4	29.2	-34.7	-46.8	0.5	-7.8	9.4	-52.3	-64.4	-13.0	39.3	51.4	Operating	No3	
4	83.55	37.9	25.7	-42.8	-51.9	0.5	-6.7	9.4	-59.3	-68.5	-13.0	46.3	55.5	Operating	No3	
5	92.10	37.9	25.3	-46.4	-56.1	0.5	-4.2	9.4	-60.6	-70.2	-13.0	47.6	57.2	Operating	No3	
6	120.00	37.5	32.6	-55.1	-51.9	0.6	2.2	10.1	-63.6	-60.4	-13.0	50.6	47.4	Operating	No3	
7	3760.00	61.0	59.7	-50.7	-51.9	3.8	12.0	0.0	-42.5	-43.7	-13.0	29.5	30.7	Operating	No1	
8	5640.00	64.3	61.2	-48.5	-51.7	4.4	13.2	0.0	-39.7	-42.9	-13.0	26.7	29.9	Operating	No1	
9	7520.00	55.6	55.7	-50.0	-48.9	5.7	11.6	0.0	-44.1	-43.1	-13.0	31.1	30.1	Operating	No1	
10	9400.00	52.9	52.3	-49.3	-51.4	6.2	11.7	0.0	-43.8	-45.9	-13.0	30.8	32.9	Operating	No1	
11	11280.00	64.8	55.8	-43.8	-52.7	7.3	12.0	0.0	-39.1	-48.0	-13.0	26.1	35.0	Operating	No3	
12	13160.00	58.6	66.3	-51.4	-44.0	8.9	13.3	0.0	-47.0	-39.6	-13.0	34.0	26.6	Operating	No3	
13	15040.00	59.0	60.9	-56.5	-54.6	8.4	14.6	0.0	-50.3	-48.3	-13.0	37.3	35.3	Operating	No3	
14	16920.00	65.1	66.5	-50.2	-47.8	9.2	15.2	0.0	-44.2	-41.9	-13.0	31.2	28.9	Operating	No3	
15	18800.00	57.6	57.4	-47.6	-47.8	12.4	16.6	0.0	-43.4	-43.6	-13.0	30.4	30.6	Operating	No3	

CALCULATION:READING(SG)-LOSS(CABLE)+ANT.GAIN-ATTEN

Rx-ANTENNA : Biconical Antenna(30-300MHz), Logperriodic Antenna(300-1000MHz), Horn Antenna(1-19GHz)

Tx-ANTENNA : Shorted Dipole Antenna(30-120MHz), Dipole Antenna(120-1000MHz), Horn Antenna(1-19GHz)

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

*The noise level was too low to detect.

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

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

Frequency Stability(Temperature/Voltage Variation)

UL Apex Co., Ltd.
Head Office Measurement Room

COMPANY	Sharp Corporation	REPORT NO	26CE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	FCC Part24 Section 24.235
MODEL	PV200E	TEST METHOD	FCC Part2 Section 2.1055(a)(1) and(b)
S/N	5		FCC Part2 Section 2.1055(d)(1) and(2)
POWER	DC3.9V (AC120V/60Hz)	TEST DISTANCE	-
MODE	Tx 1880.0MHz (661ch)/PCL=0(MAX Pow)	DATE	March 27, 2006
		TEMPERATURE	23℃
		HUMIDITY	38%
		ENGINEER	Yutaka Yoshida

〈PCS1900〉

Temp. [deg.C]	Volt. [V]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [ppm]	Limit [ppm]
-30.0	3.9	1880.067549	1196	0.636	-
-20.0	3.9	1880.067386	1359	0.723	-
-10.0	3.9	1880.067219	1526	0.812	-
0.0	3.9	1880.068219	526	0.280	-
10.0	3.9	1880.068074	671	0.357	-
20.0	3.9	1880.068745	0	0.000	-
30.0	3.9	1880.068574	171	0.091	-
40.0	3.9	1880.067596	1149	0.611	-
50.0	3.9	1880.067602	1143	0.608	-

Temp. [deg.C]	Volt. [V]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [ppm]	Limit [ppm]
20.0	3.600	1880.068415	330	0.176	-
20.0	3.900	1880.068745	0	0.000	-
20.0	4.200	1880.068821	-76	-0.040	-

Frequency Stability(Temperature/Voltage Variation)

UL Apex Co., Ltd.
Head Office EMC Lab No.7 Shielded Room

COMPANY	Sharp Corporation	REPORT NO	26CE0276-HO
EQUIPMENT	Wireless PDA	REGULATION	FCC Part24 Section 24.235
MODEL	PV200E	TEST METHOD	FCC Part2 Section 2.1055(a)(1) and(b)
S/N	5		FCC Part2 Section 2.1055(d)(1) and(2)
POWER	DC3.9V (AC120V/60Hz)	TEST DISTANCE	-
MODE	Tx 1880.0MHz (661ch)/PCL=0(MAX Pow)	DATE	April 17, 2006
		TEMPERATURE	22℃
		HUMIDITY	36%
		ENGINEER	Yutaka Yoshida

<PCS1900+EGPRS>

Temp. [deg.C]	Volt. [V]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [ppm]	Limit [ppm]
-30.0	3.9	1879.999998	9	0.005	-
-20.0	3.9	1880.000001	6	0.003	-
-10.0	3.9	1880.000014	-7	-0.004	-
0.0	3.9	1879.999991	16	0.009	-
10.0	3.9	1879.999984	23	0.012	-
20.0	3.9	1880.000007	0	0.000	-
30.0	3.9	1880.000013	-6	-0.003	-
40.0	3.9	1880.000012	-5	-0.003	-
50.0	3.9	1880.000009	-2	-0.001	-

Temp. [deg.C]	Volt. [V]	Frequency Reading [MHz]	Frequency Error [Hz]	Frequency Error [ppm]	Limit [ppm]
20.0	3.600	1880.000018	-11	-0.006	-
20.0	3.900	1880.000007	0	0.000	-
20.0	4.200	1879.999988	19	0.010	-