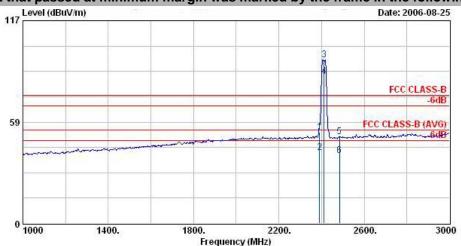
Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.

Report No.: FR680914



Site : 03CH06-HY

Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT) Power : 120Vac/60Hz Model : FR 680914

Memo : 11g Tx_CH01;2412MHz

Plane : E2 Data Rate : 54

Over Limit ReadAntenna Cable Preamp Ant Table Freq Level Limit Pos Remark Line Level Factor Loss Factor Pos MHz dBuV/m dB dB dBuV/m dBuV dB/m dB cm deg 2390.00 52.65 -21.35 74.00 53.59 30.26 4.26 35.46 100 360 Peak 1 2 3 4 30.26 30.27 30.27 30.27 30.29 35.46 35.46 35.46 35.51 35.51 41.82 95.44 85.91 51.00 40.17 40.88 -13.12 94.51 4.26 4.26 2390.00 2412.00 54.00 100 267 Average 360 Peak 267 Average 100 84.98 4.26 0 2412.00 100 2484.00 50.14 -23.86 74.00 2484.00 39.31 -14.69 54.00 5 4.36 100 360 Peak 4.36 100 267 Average

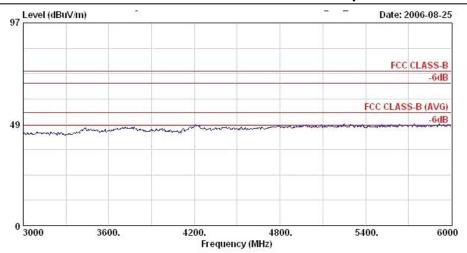
Remark: #3 and #4 Fundamental Signal

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1 Page No. : 98 of 134

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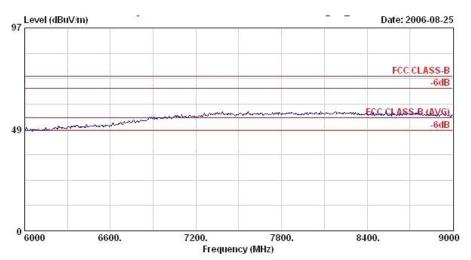
Report No.: FR680914



Site : 03CH06-HY Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT) Power 120Vac/60Hz

ModelFR 680914 : 11g Tx_CH01;2412MHz : E2 Memo

Plane Data Rate : 54



Site : 03CH06-HY

Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT) Power : 120Vac/60Hz Model : FR 680914

Memo : 11g Tx_CH01;2412MHz

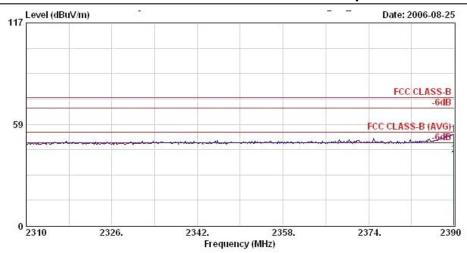
Plane Data Rate : 54

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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Report No.: FR680914



Site : 03CH06-HY Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT)

Power 120Vac/60Hz ModelFR 680914

: 11g Tx_CH01;2412MHz : E2 Memo

Plane Data Rate : 54

	Freq	Level				Antenna Factor					
	——————————————————————————————————————	MHz dBuV/m		$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	m dBuV dB7m		dB	dB	cm	deg	
1 2 @	2389.92 2389.92								100 100		Peak Average

Remark: There is no more obvious spurious emission except the listings above.

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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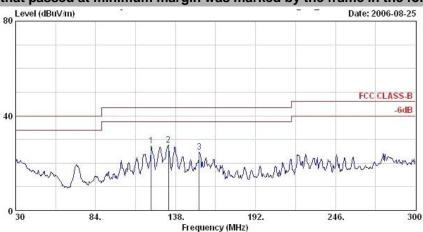


Polarization: Horizontal

Test Mode : Mode 5

The test that passed at minimum margin was marked by the frame in the following table.

Report No.: FR680914



Site : 03CH06-HY

Condition : BI-LOG-2004-1122 HORIZONTAL

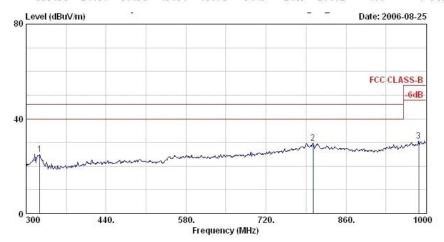
3G 手機(WLAN+BT) 120Vac/60Hz EUT Power FR 680914

: 11g Tx_CH06;2437MHz Memo

Plane : E2 Data Rate : 54

2

Over Limit ReadAntenna Limit Line Level Factor ReadAntenna Cable Preamp Ant Table Pos Remark Freq Level Limit Loss Factor Pos dBuV dB/m dB dBuV/m deg CM 28.90 28.87 28.82 27.34 -16.16 27.79 -15.71 24.57 -18.93 0 Peak 43.50 41.66 12.66 1.93 400 43.50 43.50 42.98 41.71 11.45 2.23 2.19 188 Peak O Peak 100 400



03CH06-HY Site

BI-LOG-2004-1122 HORIZONTAL 3G 手機(WLAN+BT) Condition EUT

120Vac/60Hz Power Model FR 680914 Memo 11g Tx_CH06;2437MHz

Plane Data Rate - 54

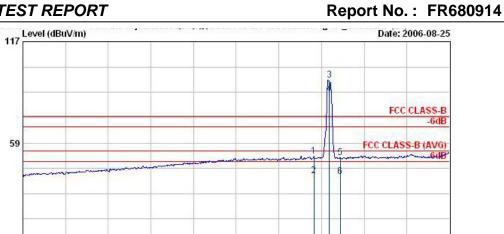
23

FCC ID: MSQO2Z1

Over Limit ReadAntenna Cable Preamp Table Ant Freq Level Limit Line Level Factor Loss Factor Pos Pos Remark MHz dBuV/m dB dBuV/m dBuV dB dB dB/m deg 13.65 21.86 22.59 3.38 5.61 0 Peak 323.80 801.90 987.40 25.02 -20.98 29.73 -16.27 30.58 -23.42 46.00 46.00 54.00 36.94 31.14 30.69 28.95 28.88 28.81 100 100 0 Peak 0 Peak

SPORTON International Inc.

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Frequency (MHz)

2200.

2600.

3000

Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : 3G 手機(WLAN+BT)
Power : 120Vac/60Hz

0 1000

FR 680914

: 11g Tx_CH06;2437MHz Memo

Plane : E2 Data Rate : 54

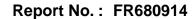
	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	1702-170 170-170-170 170-170-170	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}\overline{\mathtt{J}}\overline{\mathtt{m}}$	\overline{dB}	$\overline{\tt d} \overline{\tt B} \overline{\tt u} \overline{\tt V} \overline{\tt /m}$	dBuV	$-\overline{dB/m}$	dB	dB	cm	deg	
1 2 3 @ 4 @	2364.00 2364.00 2437.00		-23.19 -14.50	74.00 54.00	51.78 40.48 95.92	30.24 30.24 30.27	4.20 4.20 4.29		100 104 100	268	Peak Average Peak
4 @ 5 6	2437.00 2488.00 2488.00	87.20 50.03	-23.97 -14.70	74.00 54.00	88.10 50.88 40.15	30.28 30.30	4.29 4.36 4.36	35.47 35.51	104 100 104	268 0	Average Peak Average

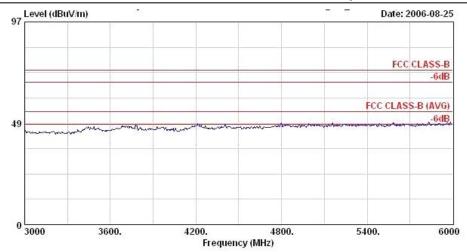
Remark: #3 and #4 Fundamental Signal

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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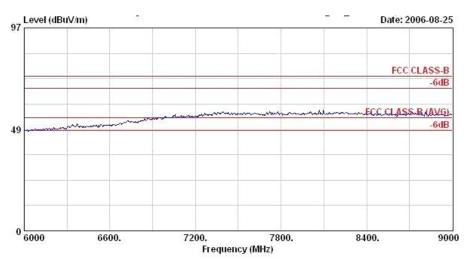


Site : 03CH06-HY Condition : HF-ANT-060410 HORIZONTAL EUT : 3G 手機(WLAN+BT)

Power 120Vac/60Hz Model FR 680914

: 11g Tx_CH06;2437MHz Memo

Plane · F2 Data Rate : 54



Site : 03CH06-HY

Condition : HF-ANT-060410 HORIZONTAL EUT

3G 手機(WLAN+BT) 120Vac/60Hz Power FR 680914 Model

Memo : 11g Tx_CH06;2437MHz

Plane Data Rate : 54

SPORTON International Inc.

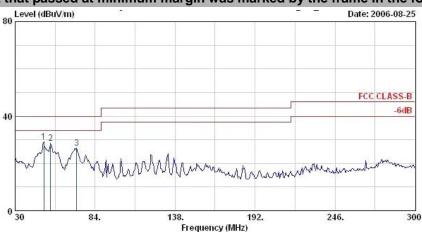
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.

Report No.: FR680914



Site 03CH06-HY

: BI-LOG-2004-1122 VERTICAL : 3G 手機(WLAN+BT) Condition EUT

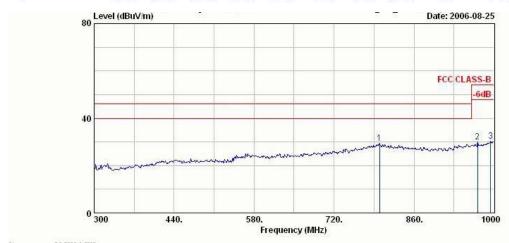
Power 120Vac/60Hz FR 680914

11g Tx_CH06;2437MHz Memo

Plane Data Rate : 54

Table Over Limit ReadAntenna Cable Preamp Ant Line Level Factor Freq Level Limit Pos Remark Loss Factor Pos dB dBuV/m dBuV dB/m MHz dBuV/m dB deg cm

1 @	49.44	29.08 -10.92	40.00	46.32	10.30	1.07	28.61	106	228 Peak	
2	54.03	28.42 -11.58	40.00	47.37	8.53	1.14	28.63	400	0 Peak	
3	71.58	26.37 -13.63	40.00	47.27	6.41	1.39	28.69	400	0 Peak	



Site 03CH06-HY

BI-LOG-2004-1122 VERTICAL 3G 手機(WLAN+BT) Condition EUT

Power Model FR 680914

11g Tx_CH06;2437MHz Memo

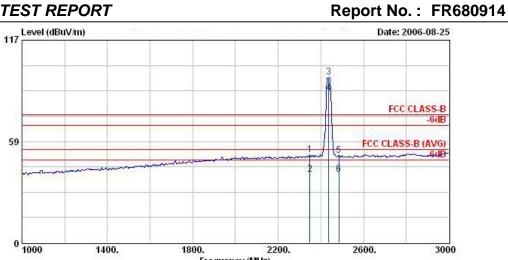
Plane Data Rate

ReadAntenna Table Over Limit Cable Preamp Ant Pos Remark Loss Factor Pos Freq Level Limit Line Level Factor dB dBuV/m dBuV dΒ MHz dBuV/m dB/m deg 100 100 30.73 30.94 30.08 21.90 22.09 22.79 0 Peak 0 Peak 29.38 -16.62 30.11 -23.89 30.27 -23.73 46.00 54.00 54.00 5.62 5.93 6.19 123 0 Peak

SPORTON International Inc.

FCC ID: MSQO2Z1

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Frequency (MHz)

Site : 03CH06-HY Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT) 120Vac/60Hz Power Model

: FR 680914 : 11g Tx_CH06;2437MHz Memo

Plane E2 Data Rate : 54

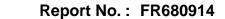
	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}/\overline{\mathtt{m}}$	dB	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	dBuV	dB/m	<u>dB</u>	<u>dB</u>	cm	deg	
1 2 3 @ 4 @	2348.00 2348.00 2437.00 2437.00	39.49 95.90	-23.10 -14.51	74.00 54.00	51.89 40.47 96.80 87.36	30.24 30.24 30.28 30.28	4.20 4.20 4.29 4.29	35.42 35.42 35.47 35.47	100 108 100 108	210 0	Peak Average Peak Average
5 6	2484.00 2484.00	5.500 5.500	-23.42 -14.57	74.00 54.00	51.44 40.29	30.29 30.29	4.36 4.36	35.51 35.51	100 108		Peak Average

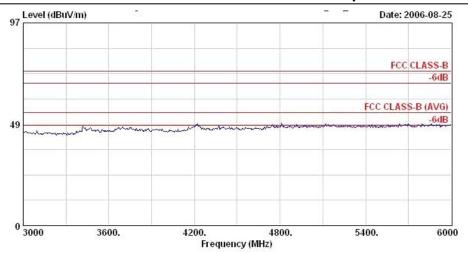
Remark: #3 and #4 Fundamental Signal

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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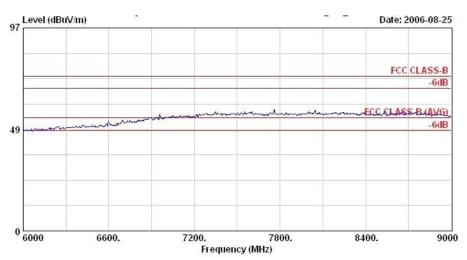




Site : 03CH06-HY Condition : HF-ANT-060410 VERTICAL EUT 3G手機(WLAN+BT) Power 120Vac/60Hz FR 680914

Model : 11g Tx_CH06;2437MHz Memo

Plane E2 Data Rate : 54



: 03CH06-HY

Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT) : 120Vac/60Hz Power Model : FR 680914

: 11g Tx_CH06;2437MHz Memo

Plane Data Rate : 54

Remark: There is no more obvious spurious emission except thelistings above.

SPORTON International Inc.

FCC ID: MSQO2Z1

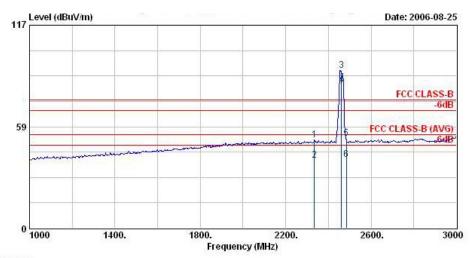
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Test Mode: Mode 6 Polarization: Horizontal

The test that passed at minimum margin was marked by the frame in the following table.

Report No.: FR680914



Site : 03CH06-HY

: HF-ANT-060410 HORIZONTAL : 3G手機(WLAN+BT) Condition

EUT : 120Vac/60Hz Power

Model : FR 680914 : 11g Tx_CH11;2462MHz Memo

Plane : E2 Data Rate : 54

Over Limit ReadAntenna Cable Preamp Ant Table Pos Remark Freq Level Limit Line Level Factor Loss Factor Pos MHz dBuV/m dB dBuV/m dBuV dB dB/m dB deg 50.67 -23.33 39.19 -14.81 90.79 82.61 51.76 -22.24 39.62 -14.38 35.40 35.40 35.49 35.49 35.51 35.51 2334.00 2334.00 2462.00 2462.00 30.23 30.23 30.29 30.29 4.17 4.17 74.00 51.68 100 0 Peak 268 Average O Peak 54.00 40.19 2345 100 91.67 83.49 52.62 4.33 100 0 100 268 Average 74.00 30.29 2484.00 4.36 100 0 Peak б 54.00 30.29 2484.00 40.48 4.36 100 268 Average

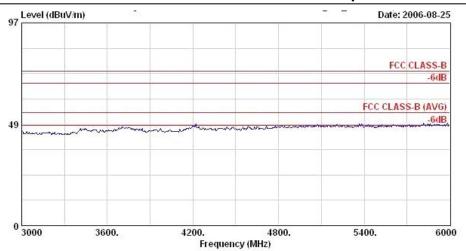
Remark: #3 and #4 Fundamental Signal

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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Report No.: FR680914

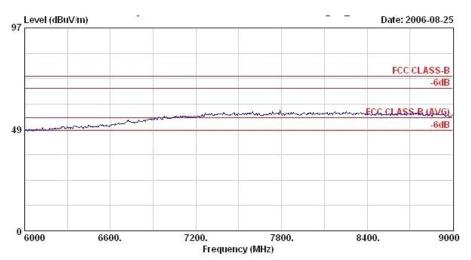


Site : 03CH06-HY Condition : HF-ANT-060410 HORIZONTAL EUT : 3G 手機(WLAN+BT)

Power 120Vac/60Hz Model : FR 680914

: 11g Tx_CH11;2462MHz Memo

Plane · F2 Data Rate : 54



Site : 03CH06-HY

Condition : HF-ANT-060410 HORIZONTAL EUT : 3G 手機(WLAN+BT) Power : 120Vac/60Hz Model : FR 680914

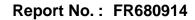
Memo : 11g Tx_CH11;2462MHz

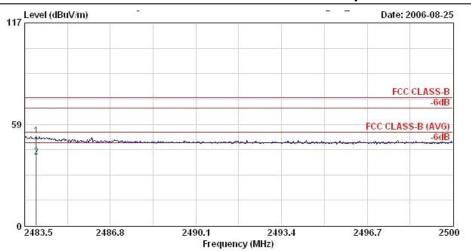
Plane Data Rate : 54

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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: 03CH06-HY : HF-ANT-060410 HORIZONTAL : 3G 手機(WLAN+BT) Site Condition

EUT Power 120Vac/60Hz Model

: FR 680914 : 11g Tx_CH11;2462MHz : E2 Memo

Plane Data Rate : 54

	Freq	Level				Antenna Factor					Remark
- 1	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/m}$	dB	$\overline{\mathtt{d} \mathtt{B} \mathtt{u} \mathtt{V} / \mathtt{m}}$	dBuV	—dB/m	dB	d B	cm	deg	
1 2	2483.95 2483.95								100 100		Peak Average

SPORTON International Inc.

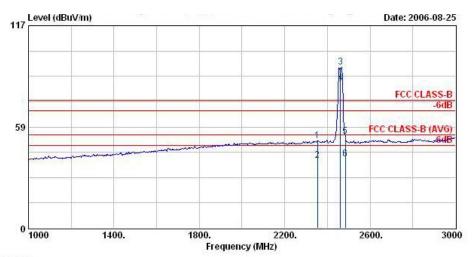
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.

Report No.: FR680914



: 03CH06-HY

Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT) Power : 120Vac/60Hz

Model : FR 680914 : 11g Tx_CH11;2462MHz Memo

Plane : E2 Data Rate : 54

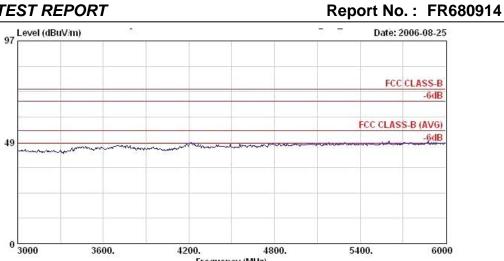
Data Nate . 54	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/m}$	<u>dB</u>	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	dBuV	$-\overline{dB/m}$	<u>dB</u>	\overline{dB}	cm	deg	
1 2 3 X 4 @	2354.00 2354.00 2462.00 2462.00	50.67 39.21 93.19 83.92	-23.33 -14.79		51.64 40.19 94.06 84.80	30.24 30.24 30.29 30.29	4.20 4.20 4.36 4.33		100 107 100 107	213 360	Peak Average Peak Average
5	2484.00 2484.00	53.12 40.15	-20.88 -13.85	74.00 54.00	53.98 41.01	30.29 30.29	4.36		100 107		Peak Average

Remark: #3 and #4 Fundamental Signal

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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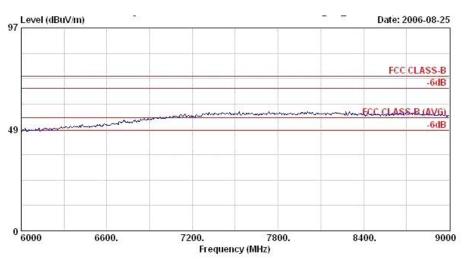


Frequency (MHz)

Site : 03CH06-HY Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT) Power 120Vac/60Hz Model: FR 680914

: 11g Tx_CH11;2462MHz Memo

Plane · F2 Data Rate : 54



Site : 03CH06-HY

Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT) Power : 120Vac/60Hz Model : FR 680914

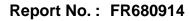
Memo : 11g Tx_CH11;2462MHz

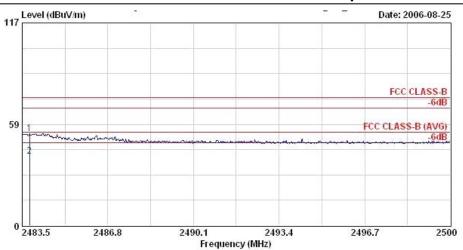
Plane Data Rate : 54

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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Site

: 03CH06-HY : HF-ANT-060410 VERTICAL : 3G 手機(WLAN+BT) Condition : EUT

Power 120Vac/60Hz ModelFR 680914

11g Tx_CH11;2462MHz Memo

Plane E2 Data Rate : 54

1 2

Freq	Level		Limit Line						Table Pos	Remark	
MHz	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	$ \overline{dB}$	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBu∀	$-\overline{dB/m}$	$\overline{d}\overline{B}$	<u>dB</u>	cm	deg		
2483.78 2483.78									0 213	Peak Average	

Remark: There is no more obviousl spurious emission except the listings above.

SPORTON International Inc.

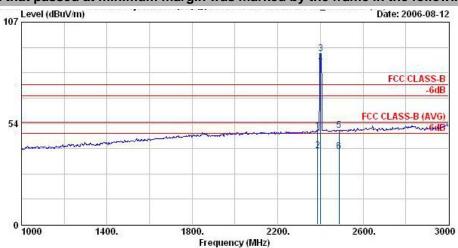
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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Test Mode : Mode 7 Polarization: Horizontal

The test that passed at minimum margin was marked by the frame in the following table.

Report No.: FR680914



Site : 03CH06-HY Condition : HF-ANT-060410 HORIZONTAL EUT : 3G 手機(WLAN+BT) Power : 120Vac/60Hz Model : FR 680914

Memo : BT Tx_CH00;2402MHz

Plane Data Rate : DHS

			0ver	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}\overline{\mathtt{J}}\overline{\mathtt{m}}$	\overline{dB}	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	-dBuV	$\overline{dB7m}$	\overline{dB}	\overline{dB}	cm	deg	
_1	2388.00	49.40	-24.60	74.00	50.35	30.26	4.23	35.44	100	360	Peak
2 @	2388.00	38.85	-15.15	54.00	39.80	30.26	4.23	35.44	100	165	Average
3 @ 4 @	2402.00	90.38			91.31	30.27	4.26	35.46	100	360	Peak
4 @	2402.00	85.11			86.05	30.26	4.26	35.46	100	165	Average
5	2488.00	49.90	-24.10	74.00	50.75	30.30	4.36	35.51	100	360	Peak
б	2488.00	38.53	-15.47	54.00	39.38	30.30	4.36	35.51	100	165	Average

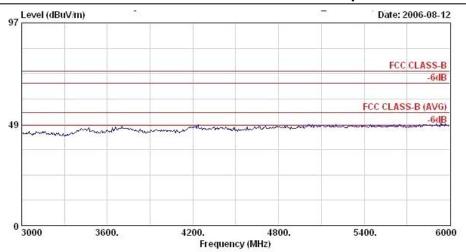
Remark: #3 and #4 Fundamental Signal

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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Report No.: FR680914

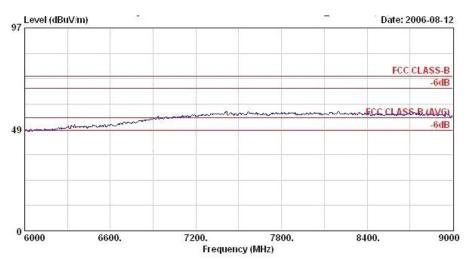


Site : 03CH06-HY Condition : HF-ANT-060410 HORIZONTAL EUT : 3G 手機(WLAN+BT)

Power 120Vac/60Hz Model : FR 680914

: BT Tx_CH00;2402MHz : E2 Memo

Plane Data Rate : DH5



Site : 03CH06-HY

Condition : HF-ANT-060410 HORIZONTAL EUT : 3G 手機(WLAN+BT) Power : 120Vac/60Hz Model : FR 680914

Memo : BT Tx_CH00;2402MHz

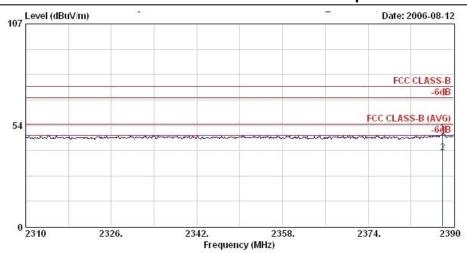
Plane Data Rate : DH5

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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Report No.: FR680914



Site : 03CH06-HY Condition : HF-ANT-060410 HORIZONTAL EUT : 3G 手機(WLAN+BT)

Power 120Vac/60Hz Model

: FR 680914 : BT Tx_CH00;2402MHz : E2 Memo

Plane Data Rate : DH5

	Freq	Level						Preamp Factor			Remark
7	M Hz	$\overline{d}\overline{B}\overline{u}\overline{V}/\overline{m}$	dB	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}/\overline{\mathtt{m}}$	dBuV	—dB/m	d <u>B</u>	dB	cm	deg	
1 2 @	2387.92 2387.92								100 100		Peak Average

SPORTON International Inc.

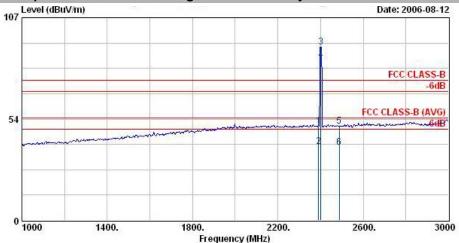
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

Page No. : 115 of 134 Report Issued Date : Aug. 30, 2006

Report No.: FR680914 FCC TEST REPORT

Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



: 03CH06-HY : HF-ANT-060410 VERTICAL : 3G 手機(WLAN+BT) Site Condition EUT Power 120Vac/60Hz : FR 680914 : BT Tx_CH00;2402MHz Model

Memo

Plane : E2 Data Rate : DH5

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}\overline{\mathtt{J}}\overline{\mathtt{m}}$	<u>dB</u>	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}\overline{\mathtt{J}}\overline{\mathtt{m}}$	—dBu∇	$-\overline{dB7m}$	<u>dB</u>	$\overline{-}\overline{d}\overline{B}$		deg	
1 2 3 @ 4 @ 5	2390.00 2390.00 2402.00 2402.00 2488.00 2488.00	91.38 84.61 49.74	-24.26	74.00	50.71 39.73 92.31 85.55 50.60 39.42	30.26 30.26 30.26 30.26 30.30 30.30	4.26 4.26 4.26 4.26 4.36 4.36	35.46 35.46 35.46 35.51	100 100 100 100 100 100	12 360 12 360	Peak Average Peak Average Peak Average

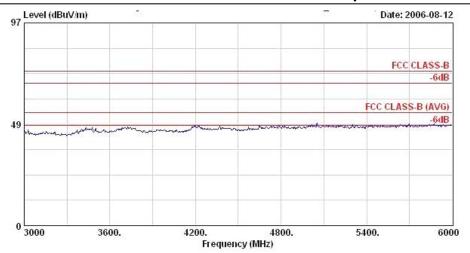
Remark: #3 and #4 Fundamental Signal

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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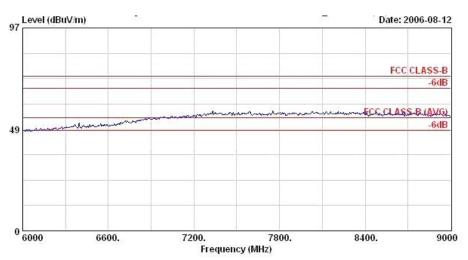
Report No.: FR680914



Site : 03CH06-HY Condition : HF-ANT-060410 VERTICAL EUT 3G手機(WLAN+BT) Power 120Vac/60Hz

ModelFR 680914 BT Tx_CH00;2402MHz E2 Memo

Plane Data Rate : DHS



Site : 03CH06-HY

Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT) Power : 120Vac/60Hz Model : FR 680914

Memo : BT Tx_CH00;2402MHz

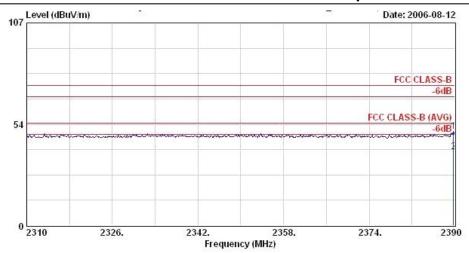
Plane Data Rate : DH5

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

Page No. : 117 of 134 Report Issued Date : Aug. 30, 2006

Report No.: FR680914



: 03CH06-HY : HF-ANT-060410 VERTICAL : 3G 手機(WLAN+BT) Site Condition EUT Power 120Vac/60Hz

: FR 680914 : BT Tx_CH00;2402MHz : E2 Model Memo

Plane Data Rate : DH5

1 2 @

	Freq	Level				Antenna Factor				Table Pos	Remark
	MHz	$\overline{\mathtt{dBuV/m}}$	\overline{dB}	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBuV	−dB/m	dB	\overline{dB}	cm	deg	
)	2389.76 2389.76										Peak Average

Remark: There is no more obvious spurious emission except the listings above.

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

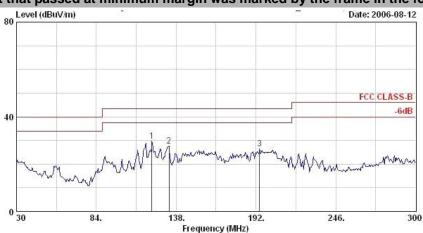
Page No. : 118 of 134 Report Issued Date : Aug. 30, 2006



Test Mode : Mode 8 Polarization: Horizontal

The test that passed at minimum margin was marked by the frame in the following table.

Report No.: FR680914



: 03CH06-HY Site

Condition

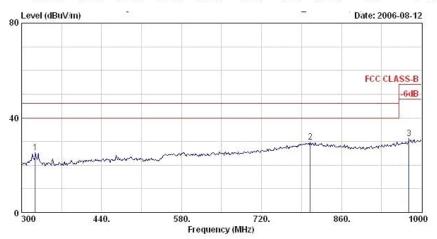
: BI-LOG-2004-1122 HORIZONTAL : 3G 手機(WLAN+BT) : 120Vac/60Hz EUT Power FR 680914

: BT Tx_CH39;2441MHz : E2 Memo

Plane Data Rate : DH5

1 2 3

. Nate : DNS	Freq	Level				Antenna Factor		Preamp Factor		Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/m}$	dB	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBuV	$-\frac{dB}{m}$	<u>dB</u>	dB		deg	
@ ; @ : @	133.14	27.58	-15.92	43.50	42.78	12.66 11.45 9.72	2.23		122 400 400	0	Peak Peak Peak



: 03CH06-HY Site

BI-LOG-2004-1122 HORIZONTAL 3G 手機(WLAN+BT) Condition

EUT Power 120Vac/60Hz Model FR 680914 BT Tx_CH39;2441MHz Memo

: DH5 Data Rate

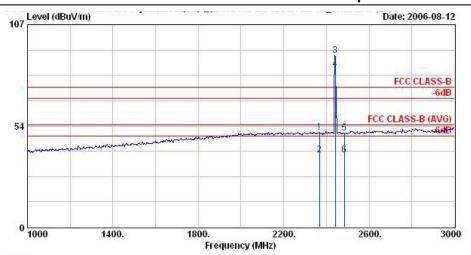
ia itale .	DIIS	Freq	Level		Limit Line						Table Pos	Remark
		MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	<u>dB</u>	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBuV	dB/m	<u>dB</u>	\overline{dB}	cm	deg	
1 @ 2 @ 3 @		805.40	29.78	-16.22	46.00 46.00 54.00	31.27	21.80	5.60		100 100 100	0	Peak Peak Peak

SPORTON International Inc.

FCC ID: MSQO2Z1

Page No. : 119 of 134 TEL: 886-2-2696-2468 Report Issued Date : Aug. 30, 2006 FAX: 886-2-2696-2255 Report Version : Rev. 02

Report No.: FR680914



Site : 03CH06-HY
Condition : HF-ANT-060410 HORIZONTAL
EUT : 3G 手機(WLAN+BT)

Power : 120Vac/60Hz Model : FR 680914

: BT Tx_CH39;2441MHz : E2 Memo

Plane : E2 Data Rate : DH5

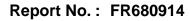
	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}/\overline{m}$	\overline{dB}	$\overline{d}\overline{B}\overline{u}\overline{V}/\overline{m}$	dBu∇	<u>dB</u> /m	<u>dB</u>	<u>dB</u> -	cm	deg	
1 @	2368.00	50.16	-23.84	74.00	51.12	30.24	4.23	35.44	100	360	Peak
2 @ 3 @ 4 @ 5 @	2368.00	38.09	-15.91	54.00	39.05	30.24	4.23	35.44	100		Average
3 @	2441.00	90.61			91.51	30.28	4.29	35.47	100		Peak
4 @	2441.00	83.58			84.47	30.28	4.33		100		Average
5 Q	2484.00	49.74	-24.26		50.60	30.29	4.36		100		Peak
60	2484.00	38.18	-15.82	54.00	39.04	30.29	4.36	35.51	100	166	Average

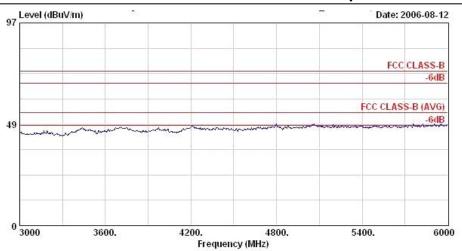
Remark: #3 and #4 Fundamental Signal

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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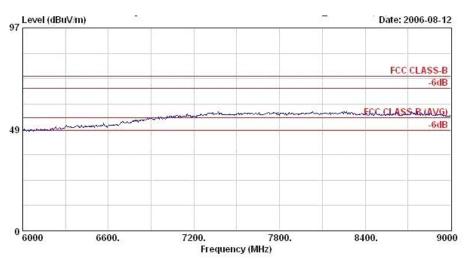


Site : 03CH06-HY Condition : HF-ANT-060410 HORIZONTAL EUT : 3G 手機(WLAN+BT)

Power 120Vac/60Hz Model: FR 680914

: BT Tx_CH39;2441MHz : E2 Memo

Plane Data Rate : DH5



Site : 03CH06-HY

Condition : HF-ANT-060410 HORIZONTAL EUT : 3G 手機(WLAN+BT) Power : 120Vac/60Hz Model : FR 680914

Memo BT Tx_CH39;2441MHz

Plane Data Rate : DH5

SPORTON International Inc.

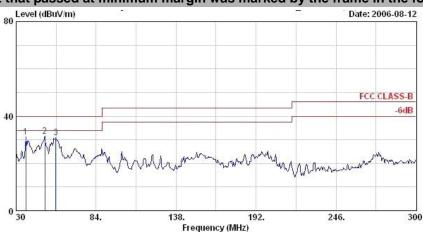
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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FCC TEST REPORT Report No.: FR680914

· Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



03CH06-HY Site

: BI-LOG-2004-1122 VERTICAL : 3G 手機(WLAN+BT) Condition EUT

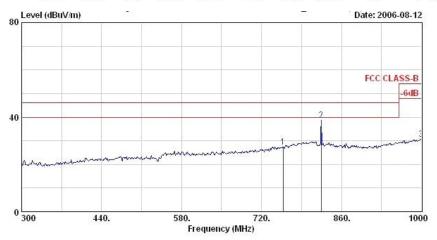
120Vac/60Hz Power FR 680914

BT Tx_CH39;2441MHz E2 Memo Plane

Data Rate : DH5

1 @ 2 @ 3 @

CII	Freq	Level				Antenna Factor				Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/m}$	$\overline{d}\overline{B}$	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBuV	-dB/m	<u>dB</u>	$\overline{d}\overline{B}$		deg	
	49.44	31.43	-8.57	40.00	48.67	16.17 10.30 7.54	1.07	28.65 28.61 28.64	400 400 400	0	Peak Peak Peak



Site

: 03CH06-HY : BI-LOG-2004-1122 VERTICAL : 3G 手機(WLAN+BT) Condition EUT

120Vac/60Hz Model FR 680914

BT Tx_CH39;2441MHz Memo

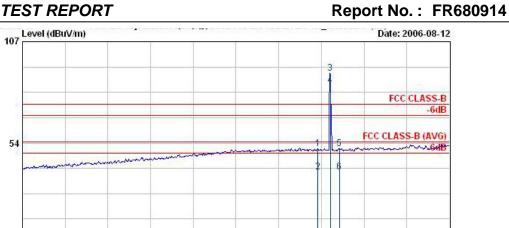
Plane Data Rate : DH5

	$F{\rm req}$	Level				Antenna Factor				lable Pos	Remark	
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	dB	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	dBuV	$-\overline{dB/m}$	dB	\overline{dB}	cm	deg		
1 @	757.80	27.45	-18.55	46.00	30.49	20.68	5.25	28.96	100	0	Peak	
2 @	824.30	38.70	-7.30	46.00	40.74	21.42	5.53	29.00	144	301	Peak	1
3 @	1000.00	30.71	-23.29	54.00	30.29	22.97	6.24	28.79	100	0.	Peak	•

SPORTON International Inc.

FCC ID: MSQO2Z1

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Frequency (MHz)

2200.

2600.

3000

Site : 03CH06-HY Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT) Power : 120Vac/60Hz

1000

1400.

: FR 680914

: BT Tx_CH39;2441MHz Memo

Plane : E2 Data Rate : DHS

Data Marc .			0ver	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	Fr	eq Leve	l Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	M	Hz dBuV7	m dB	$\overline{d}\overline{B}\overline{u}\overline{V}/\overline{m}$	dBu∀	$-\overline{dB/m}$	<u>dB</u>	\overline{dB}	cm	deg	
1 @ 2 @ 3 @ 4 @ 5 @	2384.	00 50.5	5 -23.45	74.00	51.51	30.25	4.23	35.44	100	360	Peak
2 @	2384.	00 37.99	9 -16.01	54.00	38.95	30.25	4.23	35.44	100	320	Average
3@	2441.	00 90.1	3		91.03	30.28	4.29	35.47	100	360	Peak
4 @	2441.	00 84.0	3		84.97	30.28	4.33	35.49	100	320	Average
5@	2484.	00 50.5	23.50	74.00	51.36	30.29	4.36	35.51	100	360	Peak
6 @	2484.	00 38.1	5 -15.85	54.00	39.01	30.29	4.36	35.51	100	320	Average

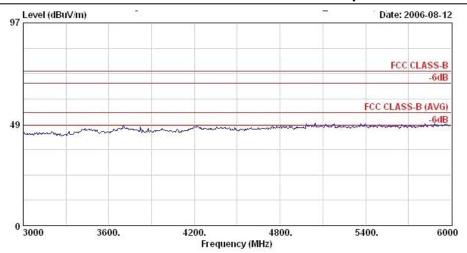
Remark: #3 and #4 Fundamental Signal

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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Report No.: FR680914

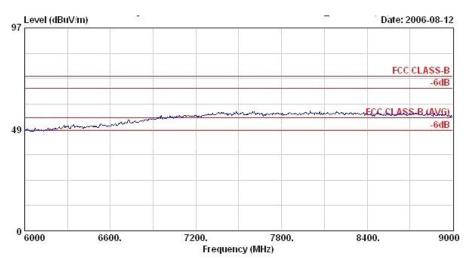


Site

: 03CH06-HY : HF-ANT-060410 VERTICAL Condition EUT 3G手機(WLAN+BT) Power 120Vac/60Hz ModelFR 680914

BT Tx_CH39;2441MHz Memo

Plane E2 Data Rate : DH5



: 03CH06-HY Site

Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT) : 120Vac/60Hz Power : FR 680914 Model

Memo : BT Tx_CH39;2441MHz

Plane Data Rate : DH5

Remark: There is no more obvious spurious emission except the listings above.

SPORTON International Inc.

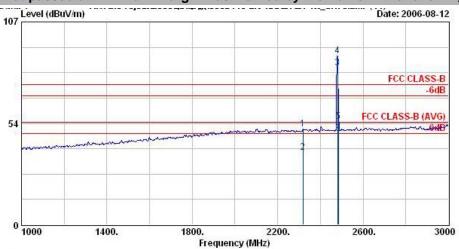
FCC ID: MSQO2Z1

Page No. : 124 of 134 TEL: 886-2-2696-2468 Report Issued Date : Aug. 30, 2006 FAX: 886-2-2696-2255 Report Version : Rev. 02

Test Mode : Mode 9Polarization : Horizontal

The test that passed at minimum margin was marked by the frame in the following table.

Report No.: FR680914



Site : 03CH06-HY

Condition : HF-ANT-060410 HORIZONTAL EUT : 3G手機(WLAN+BT)

EUT : 3G 手機(WLAN Power : 120Vac/60Hz Model : FR 680914

Memo : BT Tx_CH78;2480MHz

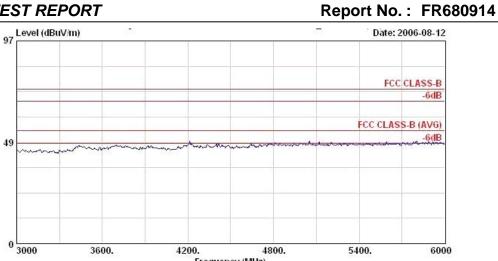
Plane : E2 Data Rate : DH5

	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}\overline{\mathtt{/}}\overline{\mathtt{m}}$	\overline{dB}	$\overline{\tt dBuV/m}$	dBu∇	$\overline{dB/m}$	dB	dB	cm	deg	
1 2 3 @ 4 @	2318.00 2318.00 2480.00 2480.00	50.44 38.36 82.56 89.10	-23.56 -15.64		51.45 39.36 83.56 89.96	30.23 30.23 30.23 30.29	4.17 4.17 4.17 4.36	35.40 35.40 35.40 35.51	100 100 100 100	1 1 1 1	Peak Average Average Peak
5	2483.50 2483.50		-19.43 -6.02	20.00 - 0.00	55.43 48.84	30.29 30.29	4.36 4.36		100 100	0	Peak Average

Remark: #3 and #4 Fundamental Signal

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1 Page No. : 125 of 134
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Frequency (MHz)

4800.

5400.

6000

4200.

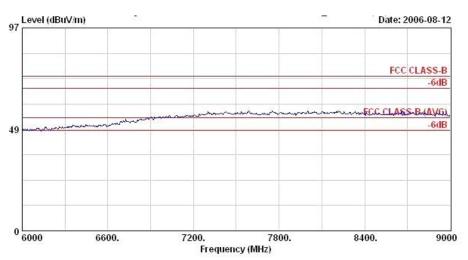
Site : 03CH06-HY Condition : HF-ANT-060410 HORIZONTAL EUT : 3G 手機(WLAN+BT)

3600.

Power 120Vac/60Hz Model FR 680914

: BT Tx_CH78;2480MHz Memo

Plane · F2 Data Rate : DH5



Site : 03CH06-HY

Condition : HF-ANT-060410 HORIZONTAL

: 3G 手機(WLAN+BT) : 120Vac/60Hz EUT Power FR 680914 Model

Memo : BT Tx_CH78;2480MHz

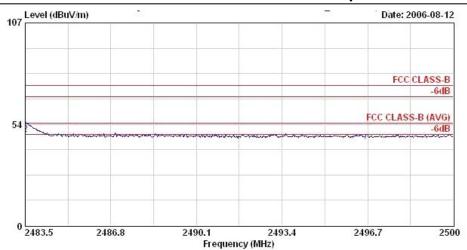
Plane Data Rate : DH5

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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Report No.: FR680914



Site : 03CH06-HY Condition : HF-ANT-060410 HORIZONTAL

EUT 3G 手機(WLAN+BT) Power 120Vac/60Hz Model FR 680914

BT Tx_CH78;2480MHz Memo

Plane Data Rate : DH5

Over Limit ReadAntenna Cable Preamp Freq Level Limit Line Level Factor Loss Factor Ant Table Pos Pos Remark MHz dBuV/m dB dBuV/m dBuV dB/m dB dB deg 2483.50 54.57 -19.43 74.00 55.43 30.29 2483.50 47.98 -6.02 54.00 48.84 30.29 4.36 35.51 4.36 35.51 0 Peak 11 Average 100 100

SPORTON International Inc.

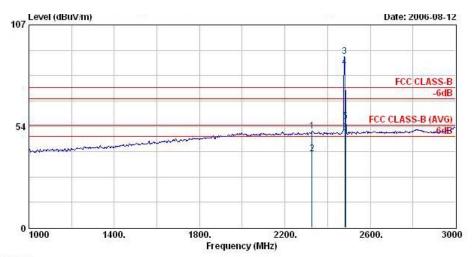
TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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Report No.: FR680914 FCC TEST REPORT

Polarization : Vertical

The test that passed at minimum margin was marked by the frame in the following table.



Site : 03CH06-HY Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT) 120Vac/60Hz Power

FR 680914

BT Tx_CH78;2480MHz Memo

Plane : E2 Data Rate : DH5

	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/m}$	dB	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBuV	$\overline{dB/m}$	dB	<u>dB</u>	cm	deg	
1 2 3 @ 4 @	2328.00 2328.00 2480.00 2480.00 2483.50	51.03 38.98 90.31 84.92 56.14	-22.97 -15.02	74.00 54.00	52.03 39.98 91.17 85.78 57.00	30.23 30.29 30.29	4.17 4.17 4.36 4.36 4.36	35.40 35.51 35.51	100 102 100 102 100	157 360 157	Peak Average Peak Average Peak
6!	2483.50	50.03	-3.97	54.00	50.89		4.36		102		Average

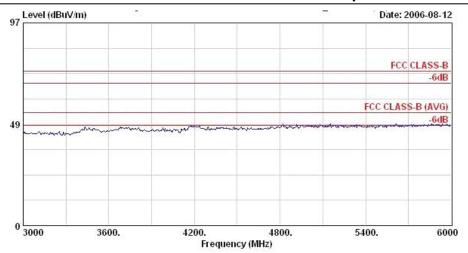
Remark: #3 and #4 Fundamental Signal

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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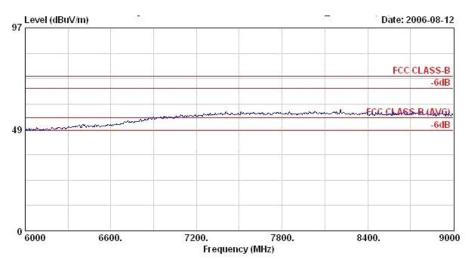
Report No.: FR680914



Site : 03CH06-HY Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT) Power 120Vac/60Hz

ModelFR 680914 BT Tx_CH78;2480MHz E2 Memo

Plane Data Rate : DH5



: 03CH06-HY

Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT) Power : 120Vac/60Hz Power Model : FR 680914

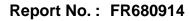
Memo : BT Tx_CH78;2480MHz

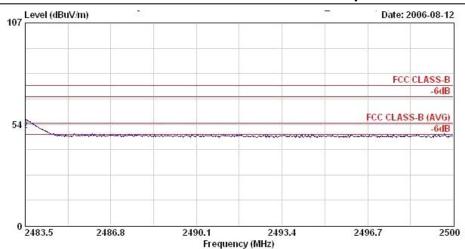
Plane Data Rate : DH5

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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Site : 03CH06-HY Condition : HF-ANT-060410 VERTICAL EUT : 3G 手機(WLAN+BT) Power 120Vac/60Hz

ModelFR 680914 BT Tx_CH78;2480MHz E2 Memo

Plane Data Rate : DH5

	Freq	Level				Antenna Factor				Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}/\overline{m}$	dB	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBuV	_dB/m	<u>dB</u>	<u>dB</u>	cm	deg	
1 2 @	2483.50 2483.50										Peak Average

Remark: There is no more obvious spurious emission except the listings above.

SPORTON International Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID: MSQO2Z1

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5.12 Antenna Requirements

5.12.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no other antenna except assembled by the responsible party shall be used with the device.

Report No.: FR680914

And according to FCC 47 CFR Section 15.247 (b), if directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

5.12.2 Antenna Connected Construction

The antennas used in this product are PIFA antennas for both WLAN and BT without antenna connector and it is considered to meet antenna requirement of FCC.

5.12.3 Antenna Gain

The antenna gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output powen limit.

SPORTON International Inc.

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6 List of Measuring Equipments Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Feb. 22, 2006	Feb. 22, 2007	Conduction (CO01-HY)
LISN	MessTec	NNB-2/16Z	2001/009	9kHz – 30MHz	Mar. 29, 2006	Mar. 29, 2007	Conduction (CO01-HY)
LISN (Support Unit)	MessTec	NNB-2/16Z	2001/004	9kHz – 30MHz	Apr. 19, 2006	Apr. 19, 2007	Conduction (CO01-HY)
EMI Filter	LINDGREN	LRE-2060	1004	< 450Hz	N/A	N/A	Conduction (CO01-HY)
EMI Filter	LINDGREN	N6006	201052	0 – 60Hz	N/A	N/A	Conduction (CO01-HY)
RF Cable-CON	Suhner Switzerland	RG223/U	CB029	9kHz – 30MHz	Dec. 22, 2005	Dec. 22, 2006	Conduction (CO01-HY)
Spectrum analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Jul. 25, 2006	Jul. 24, 2007	Radiation (03CH06-HY)
Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jun. 28, 2006	Jun. 27, 2007	Radiation (03CH06-HY)
Controller	СТ	SC100	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 22, 2004	Nov. 22, 2006	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	Feb. 1, 2005	Feb. 1, 2007	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBEC K	BBHA 9170	9170-249	14G - 40G	Jul. 21, 2006	Jul. 20, 2007	Radiation (03CH06-HY)
Amplifier	MITEQ	AMF-6F	997165	26G - 40G	Jul. 21, 2006	Jul. 20, 2007	Radiation (03CH06-HY)
Turn Table	HD	DS 420	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)
Power Meter	Agilent	E4416A	GB41292344	N/A	Jan. 23, 2006	Jan. 22, 2008	Radiation (03CH06-HY)
Power Sensor	Agilent	E9327A	US40441548	N/A	Feb. 06, 2006	Feb. 05, 2007	Radiation (03CH06-HY)

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7 Uncertainty Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncerta	ainty of x_i	()
	٩D	Probability	$u(x_i)$
	dB	Distribution	
Receiver reading	0.10	Normal(k=2)	0.05
Cable loss	0.10	Normal(k=2)	0.05
AMN insertion loss	2.50	Rectangular	0.63
Receiver Spec	1.50	Rectangular	0.43
Site imperfection	1.39	Rectangular	0.80
Mismatch	+0.34/-0.35	U-shape	0.24
combined standard uncertainty Uc(y)		1.13	
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)		2.26	

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncerta	ainty of x_i	
	4D	Probability	$u(x_i)$
	dB	Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
combined standard uncertainty Uc(y)		1.27	
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)		2.54	

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Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncerta	inty of X_i	u(x)	Ci	$Ci*u(x_i)$			
	dB	Probability	$u(x_i)$		$Ci^*u(x_i)$			
	QD.	Distribution						
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10			
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85			
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25			
Receiver Correction	±2.00	Rectangular	1.15	1	1.15			
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87			
Site imperfection	±2.80	Triangular	1.14	1	1.14			
Mismatch								
Receiver VSWR Γ1= 0.197	+0.34/-0.35	Llabanad	0.244	1	0.244			
Antenna VSWR Γ2= 0.194	+0.34/-0.33	U-shaped	0.244	'	0.244			
Uncertainty=20log(1-Γ1*Γ2*Γ3)								
Combined standard uncertainty Uc(y)	2.36							
Measuring uncertainty for a level of	4.72							
confidence of 95% U=2Ue(y)								

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