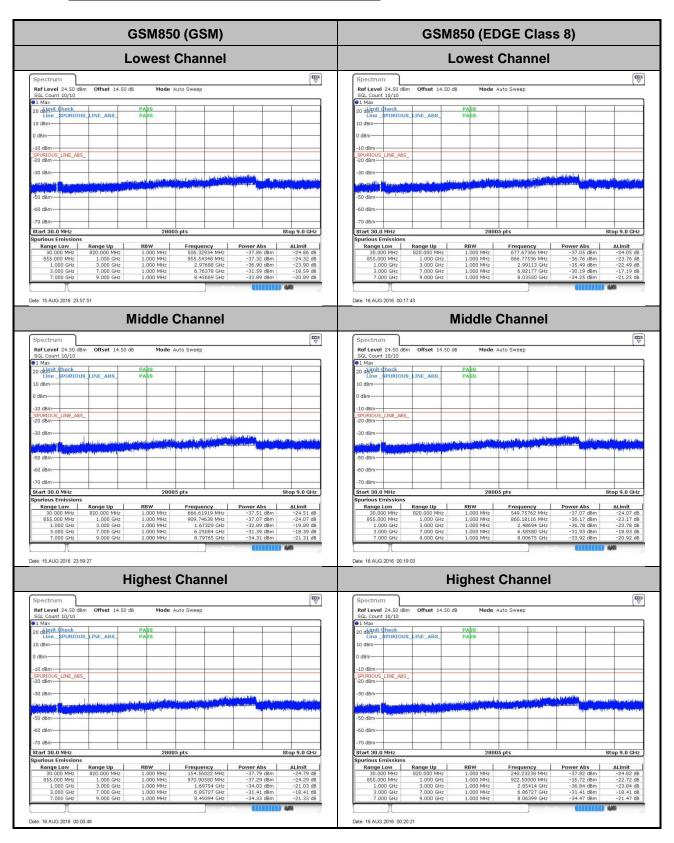
Conducted Spurious Emission



SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YCNK53B3 Page Number : A21 of A27
Report Issued Date : Sep. 12, 2016
Report Version : Rev. 01

Report No.: FG662005A

Report Template No.: BU5-FG22/24/27 Version 1.2

GSM1900 (GSM) GSM1900 (EDGE Class 8) **Lowest Channel Lowest Channel ₩ _** Ref Level 25.00 dBm Offset 15.00 dB SGL Count 10/10 1 Max Ref Level 25.00 dBm Offset 15.00 dB 20 demit Check LINE ABS LINE ABS 48006 pts Start 30.0 MHz Stop 19.1 GHz Start 30.0 MHz Stop 19.1 GHz Range Low 30.000 MHz Range Low 30,000 MHz Date: 16.AUG.2016 00:39:25 Date: 16.AUG.2016 01:07:32 **Middle Channel Middle Channel** 20 dsmit check Line _spurious_LINE_ABS 30 dBm Start 30.0 MH Stop 19.1 GHz Start 30.0 MHz Stop 19.1 GHz 1.65096 GHz 2.97851 GHz 6.88026 GHz 12.75785 GHz 15.74897 GHz Date: 16.AUG.2016 00:41:02 Date: 16.AUG.2016 01:08:53 **Highest Channel Highest Channel** Ref Level 25.00 SGL Count 10/10 20 dimit Check
Line_SPURIOUS_LINE_ABS 20 dbm Line_spurious_LINE_ABS 949.34283 MHz 1.14548 GHz 2.08336 GHz 6.92376 GHz 11.72597 GHz 15.68140 GHz Range Low 30.000 MHz Range Low 30.000 MHz
 Frequency
 Power Abs

 127.19390 MHz
 -37.35 dBm

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YCNK53B3 Page Number : A22 of A27
Report Issued Date : Sep. 12, 2016
Report Version : Rev. 01

Report No.: FG662005A

Report Template No.: BU5-FG22/24/27 Version 1.2

WCDMA Band V (RMC 12.2Kbps) WCDMA Band II (RMC 12.2Kbps) **Lowest Channel Lowest Channel ₩ _** Ref Level 25.00 dBm Offset 15.00 dB SGL Count 10/10 1 Max Ref Level 24.50 dBm Offset 14.50 dB 20 demit Check LINE ABS Start 30.0 MHz 48006 pts Stop 19.1 GHz Stop 9.0 GHz Start 30.0 MHz Range Low 30,000 MHz Range Low 30,000 MHz Date: 16.AUG.2016 01:36:03 Date: 16.AUG.2016 01:58:28 **Middle Channel Middle Channel** 30 dBm -30 dBm-Start 30.0 MHz Date: 16.AUG.2016 01:37:28 Date: 16.AUG.2016 01:59:52 **Highest Channel Highest Channel** Ref Level 24.5 SGL Count 10/10 20 demit Check Line_SPURIOUS_LINE_ABS 20 dbm Line_spurious_LINE_ABS dBm-Start 30.0 MH Stop 9.0 GHz ΔLimit -24.04 dB Frequency Power Abs 910.07746 MHz -37.04 dBn

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YCNK53B3 Page Number : A23 of A27
Report Issued Date : Sep. 12, 2016
Report Version : Rev. 01

Report No.: FG662005A

Report Template No.: BU5-FG22/24/27 Version 1.2

WCDMA Band IV (RMC 12.2Kbps) **Lowest Channel □** Ref Level 30.00 dBm Offset 15.00 dB SGL Count 10/10 Mode Auto Sweep Frequency 969.21789 MHz Range Low 30,000 MHz Date: 16.AUG.2016 02:21:10 **Middle Channel** 20 dbine SPURIOUS_LINE_ABS_ 20 dBm Date: 16.AUG.2016 02:23:20 **Highest Channel** Ref Level 30.00 dBm | Range Low | Range Up | | 30.000 MHz | 1.000 GHz |
 Frequency
 Power Abs

 695.32984 MHz
 -36.81 dBm

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YCNK53B3 Page Number : A24 of A27
Report Issued Date : Sep. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 1.2

Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviatio	n (ppm)	Result
50	Normal Voltage	0.0036	0.0060	
40	Normal Voltage	0.0012	0.0036	
30	Normal Voltage	0.0072	0.0072	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0036	0.0024	
0	Normal Voltage	0.0060	0.0024	
-10	Normal Voltage	0.0024	0.0048	PASS
-20	Normal Voltage	0.0012	0.0012	
-30	Normal Voltage	0.0036	0.0096	
20	Maximum Voltage	0.0024	0.0012	
20	Normal Voltage	0.0048	0.0072	
20	Battery End Point	0.0072	0.0060	

Note: Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5V. ; Maximum Voltage =4.35V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviatio	n (ppm)	Result
50	Normal Voltage	0.0016	0.0016	
40	Normal Voltage	0.0037	0.0005	
30	Normal Voltage	0.0027	0.0016	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0043	0.0005	
0	Normal Voltage	0.0011	0.0032	
-10	Normal Voltage	0.0005	0.0005	PASS
-20	Normal Voltage	0.0032	0.0021	
-30	Normal Voltage	0.0069	0.0016	
20	Maximum Voltage	0.0027	0.0037	
20	Normal Voltage	0.0048	0.0021	
20	Battery End Point	0.0021	0.0011	

Note:

- 1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5V. ; Maximum Voltage =4.35V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YCNK53B3 Page Number : A25 of A27
Report Issued Date : Sep. 12, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.2

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0024	
40	Normal Voltage	0.0060	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0060	PASS
-20	Normal Voltage	0.0096	
-30	Normal Voltage	0.0060	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0084	
20	Battery End Point	0.0096	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0021	
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0016	PASS
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0032	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0011	

Note:

- 1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5V. ; Maximum Voltage =4.35V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YCNK53B3 Page Number : A26 of A27
Report Issued Date : Sep. 12, 2016
Report Version : Rev. 01
Report Template No.: BU5-FG22/24/27 Version 1.2

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0046	
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0035	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0012	PASS
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0058	
20	Maximum Voltage	0.0069	
20	Normal Voltage	0.0035	
20	Battery End Point	0.0017	

Note:

- 1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.5V. ; Maximum Voltage =4.35V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YCNK53B3 Page Number : A27 of A27
Report Issued Date : Sep. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 1.2

Appendix B. Test Results of Radiated Test

ERP/EIRP

Channel	Mode	Horiz	ontal	Vertical		
Channel	Wiode	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)	
Lowest	CCMOTO	26.55	0.4515	17.29	0.0536	
Middle	GSM850	26.53	0.4499	17.38	0.0547	
Highest	- GSM	26.90	0.4893	18.23	0.0665	
Lowest	0011050	19.74	0.0942	10.40	0.0110	
Middle	GSM850 EDGE class 8	19.11	0.0815	9.88	0.0097	
Highest	EDGE class o	18.71	0.0743	10.11	0.0103	
Lowest	MCDMA Bond V	18.53	0.0713	9.86	0.0097	
Middle	WCDMA Band V RMC 12.2Kbps	18.64	0.0732	10.04	0.0101	
Highest		19.01	0.0797	10.45	0.0111	
Limit	ERP < 7W	Re	sult	PA	SS	

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YCNK53B3 Page Number : B1 of B6
Report Issued Date : Sep. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 1.2

Channel	Mada	Horiz	ontal	Vertical		
Channel	Mode	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	CCM4000	28.38	0.6893	28.42	0.6943	
Middle	GSM1900	29.28	0.8463	29.30	0.8521	
Highest	- GSM	31.08	1.2813	30.91	1.2329	
Lowest	00111000	24.00	0.2512	24.13	0.2588	
Middle	GSM1900 EDGE class 8	24.35	0.2723	24.34	0.2716	
Highest	EDGE Class o	25.09	0.3228	24.94	0.3119	
Lowest	WCDMA Dond II	22.91	0.1955	23.01	0.1999	
Middle	WCDMA Band II	24.13	0.2590	24.11	0.2578	
Highest	RMC 12.2Kbps	25.59	0.3622	25.12	0.3250	
Limit	EIRP < 2W	Re	sult	PASS		

Channal	Mode	Horiz	ontal	Vertical		
Channel	Wode	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	WCDMA Band IV	24.00	0.2512	23.60	0.2289	
Middle		23.90	0.2455	23.58	0.2280	
Highest	RMC 12.2Kbps	23.40	0.2189	23.34	0.2158	
Limit	EIRP < 1W	Re	sult	PA	SS	

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YCNK53B3 Page Number : B2 of B6
Report Issued Date : Sep. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 1.2

Radiated Spurious Emission

	GSM850 (GSM)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	1672	-54.36	-13	-41.36	-53.84	-56.18	1.23	5.20	Н	
	2512	-65.76	-13	-52.76	-70.61	-67.99	1.52	5.90	Н	
Middle	3345.6	-67.22	-13	-54.22	-74.78	-70.00	1.77	6.70	Н	
Middle	1672	-51.17	-13	-38.17	-51.46	-52.99	1.23	5.20	V	
	2512	-59.55	-13	-46.55	-67.85	-61.78	1.52	5.90	V	
	3345.6	-63.49	-13	-50.49	-74.59	-66.27	1.77	6.70	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	GSM850 (EDGE class 8)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	1672	-66.14	-13	-53.14	-64.34	-67.96	1.23	5.20	Н	
	2509.2	-67.40	-13	-54.40	-72.25	-69.63	1.52	5.90	Н	
Middle	3345.6	-67.24	-13	-54.24	-74.80	-70.02	1.77	6.70	Н	
Middle	1672	-63.95	-13	-50.95	-61.90	-65.77	1.23	5.20	V	
	2509.2	-63.60	-13	-50.60	-71.90	-65.83	1.52	5.90	V	
	3345.6	-63.78	-13	-50.78	-74.88	-66.56	1.77	6.70	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YCNK53B3 Page Number : B3 of B6
Report Issued Date : Sep. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 1.2

	GSM1900 (GSM)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	3762	-65.44	-13	-52.44	-74.45	-70.30	1.93	6.80	Н	
	5640	-60.18	-13	-47.18	-70.74	-67.48	2.40	9.70	Н	
Middle	7520	-57.51	-13	-44.51	-72.55	-66.56	2.76	11.81	Н	
Middle	3762	-64.33	-13	-51.33	-73.64	-69.20	1.93	6.80	V	
	5640	-63.04	-13	-50.04	-70.99	-70.34	2.40	9.70	V	
	7520	-60.09	-13	-47.09	-72.58	-69.14	2.76	11.81	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	GSM1900 (EDGE class 8)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	
	3762	-65.61	-13	-52.61	-74.62	-70.47	1.93	6.80	Н	
	5640	-60.65	-13	-47.65	-71.21	-67.95	2.40	9.70	Н	
Middle	7520	-57.06	-13	-44.06	-72.10	-66.11	2.76	11.81	Н	
Middle	3762	-64.28	-13	-51.28	-73.59	-69.15	1.93	6.80	V	
	5640	-63.12	-13	-50.12	-71.07	-70.42	2.40	9.70	V	
	7520	-59.69	-13	-46.69	-72.18	-68.74	2.76	11.81	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YCNK53B3 Page Number : B4 of B6
Report Issued Date : Sep. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 1.2

WCDMA Band V(RMC 12.2Kbps)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-68.21	-13	-55.21	-66.41	-70.03	1.23	5.20	Н
	2509.2	-67.47	-13	-54.47	-72.32	-69.70	1.52	5.90	Н
	3345.6	-67.06	-13	-54.06	-74.62	-69.84	1.77	6.70	Н
	1672	-68.23	-13	-55.23	-66.18	-70.05	1.23	5.20	V
	2509.2	-64.41	-13	-51.41	-72.71	-66.64	1.52	5.90	V
	3345.6	-63.68	-13	-50.68	-74.78	-66.46	1.77	6.70	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band II(RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3762	-64.99	-13	-51.99	-74.00	-69.85	1.93	6.80	Н
	5640	-59.53	-13	-46.53	-70.09	-66.83	2.40	9.70	Н
	7520	-56.96	-13	-43.96	-72.00	-66.01	2.76	11.81	Н
	3762	-64.75	-13	-51.75	-74.06	-69.62	1.93	6.80	V
	5640	-60.85	-13	-47.85	-68.8	-68.15	2.40	9.70	V
	7520	-59.62	-13	-46.62	-72.11	-68.67	2.76	11.81	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YCNK53B3 Page Number : B5 of B6
Report Issued Date : Sep. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 1.2

WCDMA Band IV(RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3468	-63.99	-13	-50.99	-75.47	-68.87	1.81	6.69	Н
	5197.8	-58.37	-13	-45.37	-69.07	-65.32	2.19	9.14	Н
	6930.4	-59.06	-13	-46.06	-71.40	-67.14	2.6	10.68	Н
	3468	-64.09	-13	-51.09	-75.84	-68.97	1.81	6.69	V
	5197.8	-60.29	-13	-47.29	-69.79	-67.24	2.19	9.14	V
	6930.4	-58.92	-13	-45.92	-71.43	-67.00	2.6	10.68	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

TEL: 86-0512-5790-0158 FAX: 86-0512-5790-0958 FCC ID: YCNK53B3 Page Number : B6 of B6
Report Issued Date : Sep. 12, 2016
Report Version : Rev. 01

Report Template No.: BU5-FG22/24/27 Version 1.2