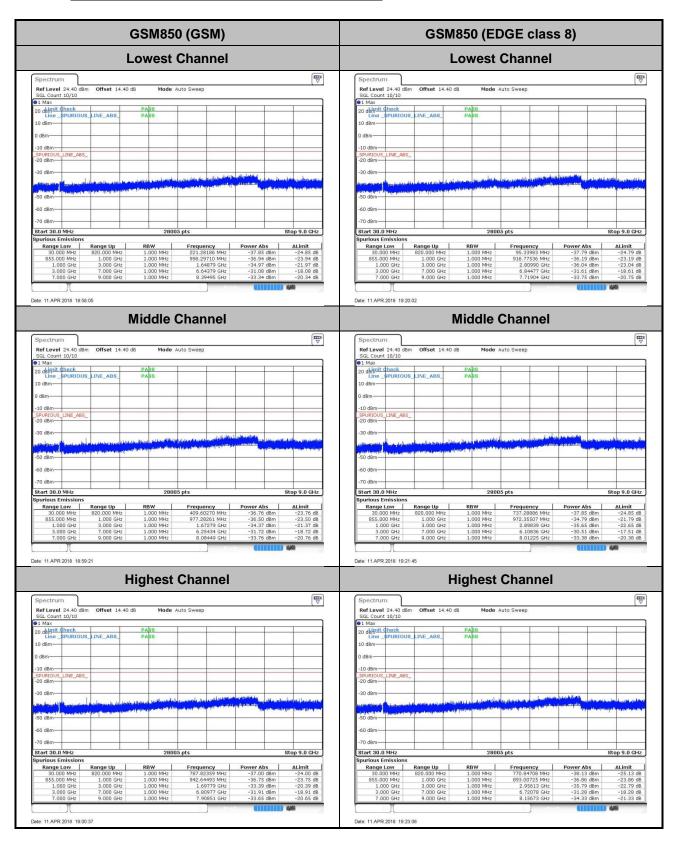
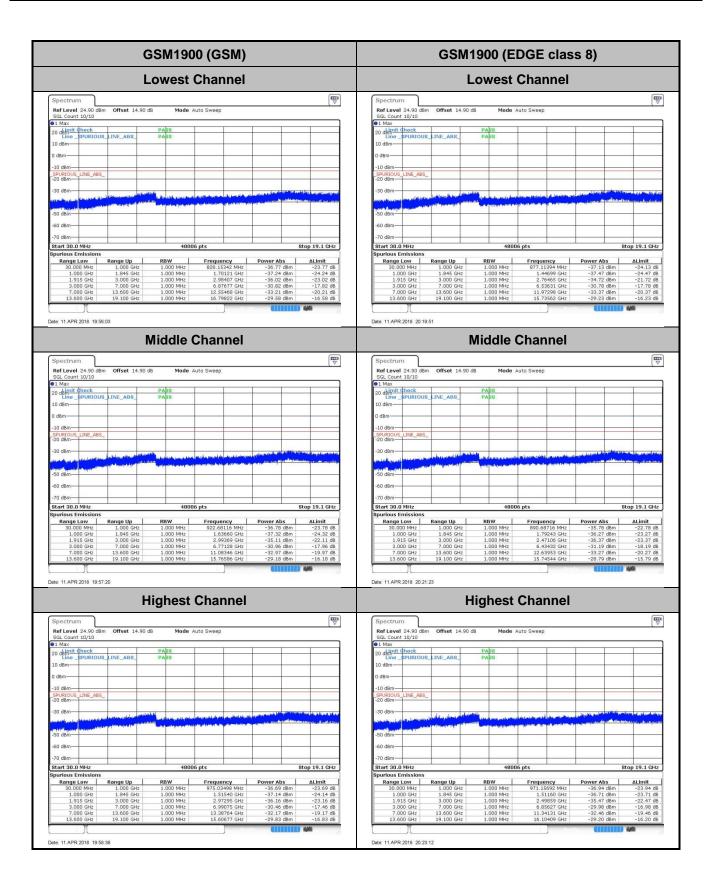
Conducted Spurious Emission



Sporton International (Kunshan) Inc.

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WCDMA Band V (RMC 12.2Kbps) WCDMA Band II (RMC 12.2Kbps) **Lowest Channel Lowest Channel ₩ _** Ref Level 24.90 dBm Offset 14.90 dB SGL Count 10/10 1 Max Ref Level 24.40 dBm Offset 14.40 dB 20 demit Check LINE ABS 48006 pts Start 30.0 MHz Stop 19.1 GHz Stop 9.0 GHz Start 30.0 MHz Range Low 30,000 MHz Range Low 30,000 MHz Date: 11.APR.2018 20:44:15 Date: 11.APR.2018 20:55:56 **Middle Channel Middle Channel** INE ABS -30 dBm Start 30.0 MHz Stop 19.1 GHz Date: 11.APR.2018 20:45:31 Date: 11.APR.2018 20:57:12 **Highest Channel Highest Channel** Ref Level 24.4 SGL Count 10/10 20 daimit Check Line_SPURIOUS_LINE_ABS 20 dbm Line_spurious_LINE_ABS dBm-Start 30.0 MH Stop 9.0 GHz
 Frequency
 Power Abs

 975.51974 MHz
 -36.57 dBn

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Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation	on (ppm)	Result
50	Normal Voltage	0.0155	0.0155	
40	Normal Voltage	0.0407	0.0072	
30	Normal Voltage	0.0072	0.0299	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0371	0.0132	
0	Normal Voltage	0.0251	0.0335	
-10	Normal Voltage	0.0335	0.0275	PASS
-20	Normal Voltage	0.0012	0.0072	
-30	Normal Voltage	0.0024	0.0239	
20	Maximum Voltage	0.0036	0.0143	
20	Normal Voltage	0.0024	0.0120	
20	Battery End Point	0.0191	0.0120	

Note: Normal Voltage =3.85V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V

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Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation	on (ppm)	Result
50	Normal Voltage	0.0032	0.0005	
40	Normal Voltage	0.0043	0.0011	
30	Normal Voltage	0.0053	0.0027	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0011	0.0016	
0	Normal Voltage	0.0074	0.0191	
-10	Normal Voltage	0.0154	0.0005	PASS
-20	Normal Voltage	0.0202	0.0032	
-30	Normal Voltage	0.0016	0.0011	
20	Maximum Voltage	0.0053	0.0165	
20	Normal Voltage	0.0021	0.0037	
20	Battery End Point	0.0128	0.0016	

Note:

- 1. Normal Voltage =3.85V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2KbpsRMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0155	
40	Normal Voltage	0.0418	
30	Normal Voltage	0.0395	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0179	
0	Normal Voltage	0.0359	
-10	Normal Voltage	0.0012	PASS
-20	Normal Voltage	0.0203	
-30	Normal Voltage	0.0311	
20	Maximum Voltage	0.0514	
20	Normal Voltage	0.0191	
20	Battery End Point	0.0048	

Note: Normal Voltage =3.85V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V

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Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0032	
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0101	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0138	PASS
-20	Normal Voltage	0.0133	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0027	
20	Normal Voltage	0.0144	
20	Battery End Point	0.0106	

Note:

- 1. Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Appendix B. Test Results of Conducted Test

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)	
	1672.8	-54.72	-13	-41.72	-68.33	-57.97	4.00	9.40	Н	
	2509.2	-44.24	-13	-31.24	-63.04	-47.81	4.88	10.60	Н	
Middle	3345.6	-55.89	-13	-42.89	-76.88	-60.82	5.52	12.60	Н	
Middle	1672.8	-54.41	-13	-41.41	-67.51	-57.66	4.00	9.40	V	
	2509.2	-44.57	-13	-31.57	-63.20	-48.14	4.88	10.60	V	
	3345.6	-56.46	-13	-43.46	-77.01	-61.39	5.52	12.60	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)		
	1672.8	-57.52	-13	-44.52	-71.13	-60.77	4.00	9.40	Н		
	2509.2	-52.18	-13	-39.18	-70.98	-55.75	4.88	10.60	Н		
Middle	3345.6	-56.53	-13	-43.53	-77.52	-61.46	5.52	12.60	Н		
Middle	1672.8	-54.78	-13	-41.78	-67.88	-58.03	4.00	9.40	V		
	2509.2	-46.89	-13	-33.89	-65.52	-50.46	4.88	10.60	V		
	3345.6	-56.51	-13	-43.51	-77.06	-61.44	5.52	12.60	V		

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

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	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)	
	3760	-43.22	-13	-30.22	-66.72	-49.97	5.85	12.60	Н	
	5640	-51.96	-13	-38.96	-79.23	-57.76	7.30	13.10	Н	
Middle	7520	-48.07	-13	-35.07	-79.16	-51.22	8.35	11.50	Н	
Middle	3760	-45.49	-13	-32.49	-68.22	-52.24	5.85	12.60	V	
	5640	-52.91	-13	-39.91	-79.12	-58.71	7.30	13.10	V	
	7520	-48.43	-13	-35.43	-78.94	-51.58	8.35	11.50	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)		
	3760	-41.56	-13	-28.56	-65.06	-48.31	5.85	12.60	Н		
	5640	-52.19	-13	-39.19	-79.46	-57.99	7.30	13.10	Н		
Middle	7520	-48.12	-13	-35.12	-79.21	-51.27	8.35	11.50	Н		
Middle	3760	-48.41	-13	-35.41	-71.14	-55.16	5.85	12.60	V		
	5640	-52.92	-13	-39.92	-79.13	-58.72	7.30	13.10	V		
	7520	-48.47	-13	-35.47	-78.98	-51.62	8.35	11.50	V		

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

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	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)		
	1672.8	-61.75	-13	-48.75	-75.36	-65.00	4.00	9.40	Н		
	2509.2	-54.76	-13	-41.76	-73.56	-58.33	4.88	10.60	Н		
Middle	3345.6	-56.41	-13	-43.41	-77.40	-61.34	5.52	12.60	Н		
Middle	1672.8	-61.30	-13	-48.30	-74.40	-64.55	4.00	9.40	V		
	2509.2	-54.80	-13	-41.80	-73.43	-58.37	4.88	10.60	V		
	3345.6	-56.59	-13	-43.59	-77.14	-61.52	5.52	12.60	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)	
	3760	-53.79	-13	-40.79	-77.29	-60.54	5.85	12.60	Н	
	5640	-48.06	-13	-35.06	-75.33	-53.86	7.30	13.10	Н	
N 4: al all a	7520	-47.77	-13	-34.77	-78.86	-50.92	8.35	11.50	Н	
Middle	3760	-54.43	-13	-41.43	-77.16	-61.18	5.85	12.60	V	
	5640	-50.59	-13	-37.59	-76.8	-56.39	7.30	13.10	V	
	7520	-48.05	-13	-35.05	-78.56	-51.20	8.35	11.50	V	

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

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