FCC RF Test Report

APPLICANT : Zebra Technologies Corporation

EQUIPMENT: Enterprise Tablet

BRAND NAME : Zebra

MODEL NAME : ET55BE

FCC ID : UZ7ET55BE

STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L) CLASSIFICATION : PCS Licensed Transmitter (PCB)

This is a partial report which is included the Conducted Output Power, Effective Radiated Power, Effective Isotropic Radiated Power, and Radiated Spurious Emission test items. The product was received on May 03, 2016 and testing was completed on Jun. 06, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

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Report No.: FG650305A

Report Version : Rev. 01

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG650305A	Rev. 01	Initial issue of report	Jun. 22, 2016

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
3.4	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4) Equivalent Isotropic Radiated Power		< 1 Watts	PASS	-
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 17.83 dB at 5724.000 MHz

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1 General Description

1.1 Applicant

Zebra Technologies Corporation

1 Zebra Plaza, Holtsville, NY 11742

1.2 Manufacturer

Zebra Technologies Corporation

1 Zebra Plaza, Holtsville, NY 11742

1.3 Product Feature of Equipment Under Test

	Product Feature
Equipment	Enterprise Tablet
Brand Name	Zebra
Model Name	ET55BE
FCC ID	UZ7ET55BE
Integrated the WWAN Module	Brand Name: Sierra Model Name: EM7355 FCC ID: N7NEM7355
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v4.0 EDR/LE
HW Version	DV1
SW Version	5.1.1
FW Version	7.35.205.4
MFD	23-Mar-16
EUT Stage	Identical Prototype

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Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.4 Product Specification of Equipment Under Test

Standards-related Product Specification					
	GSM/GPR	S/EDGE:			
	850:	824.2 MHz ~ 848.8 MHz			
	1900:	1850.2 MHz ~ 1909.8MHz			
	WCDMA:				
Ty Fraguency	Band V:	826.4 MHz ~ 846.6 MHz			
Tx Frequency	Band II:	1852.4 MHz ~ 1907.6 MHz			
	Band IV:	1712.4 MHz ~ 1752.6 MHz			
	CDMA200	00:			
	BC0:	824.70 MHz ~ 848.31 MHz			
	BC1:	1851.25 MHz ~ 1908.75 MHz			
	GSM/GPR	S/EDGE:			
	850:	869.2 MHz ~ 893.8 MHz			
	1900:	1930.2 MHz ~ 1989.8 MHz			
	WCDMA:				
Rx Frequency	Band V:	871.4 MHz ~ 891.6 MHz			
In Frequency	Band II:	1932.4 MHz ~ 1987.6 MHz			
	Band IV:	2112.4 MHz ~ 2152.6 MHz			
	CDMA2000:				
	BC0:	869.70 MHz ~ 893.31 MHz			
	BC1:	1931.25 MHz ~ 1988.75 MHz			
	GSM/GPR	S/EDGE:			
	850:	32.03 dBm			
	1900:	29.94 dBm			
	WCDMA:				
Maximum Output Power to Antenna	Band V:	22.91 dBm			
Maximum Output Fower to Antenna	Band II:	23.00 dBm			
	Band IV:	23.00 dBm			
	CDMA200	0:			
	BC0:	23.76 dBm			
	BC1:	24.00 dBm			
Antenna Type		Flexible Internal Antenna			
	Aux. Ant. : I	Flexible Internal Antenna			

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Standards-related Product Specification						
	GSM 850 : 1.57 dBi GSM 1900 : -0.45 dBi WCDMA Band II : -1.51 dBi					
Antenna Gain	WCDMA Band IV: -1.31 dBi WCDMA Band IV: -0.26 dBi WCDMA Band V: 1.23 dBi					
	CDMA BC0 : 1.57 dBi CDMA BC1 : -0.45 dBi					
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: 64QAM (Downlink) HSUPA: QPSK (Uplink) CDMA2000 1xRTT: QPSK CDMA2000 1xEV-DO: QPSK/8PSK					

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum ERP/EIRP Power

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)
Part 22	GSM850 GPRS class 8	GMSK	1.3964
Part 22	GSM850 EDGE class 8	8PSK	0.4645
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.1710
Part 22	CDMA2000 BC0 1xRTT	QPSK	0.2080
Part 24	GSM1900 GPRS class 8	GMSK	0.8892
Part 24	GSM1900 EDGE class 8	8PSK	0.3373
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.1799
Part 24	CDMA2000 BC1 1xRTT	QPSK	0.2265
Part 27	WCDMA Band IV RMC 12.2Kbps	QPSK	0.1879

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1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,
Took Cita Lagation	Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.
Test Site Location	TEL: +886-3-327-3456
	FAX: +886-3-328-4978
Toot Site No	Sporton Site No.
Test Site No.	TH05-HY

Test Site	SPORTON INTERNATIONAL INC.			
	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist,			
Test Site Location	Taoyuan City, Taiwan (R.O.C.)			
rest Site Location	TEL: +886-3-327-0868			
	FAX: +886-3-327-0855			
Tool Cita No	Sporton Site No.			
Test Site No.	03CH10-HY			

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1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

- 1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V and CDMA BC0.
- 2. 30 MHz to 18000 MHz for WCDMA Band IV.
- 3. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II and CDMA BC1.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

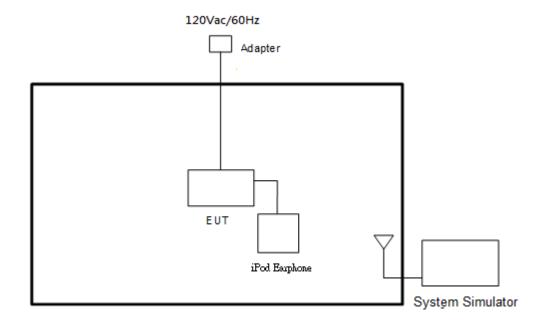
Test Modes						
Band	Radiated TCs	Conducted TCs				
GSM 850	■ GPRS class 8 Link	■ GPRS class 8 Link				
GSIVI 650	■ EDGE class 8 Link	■ EDGE class 8 Link				
GSM 1900	■ GPRS class 8 Link	■ GPRS class 8 Link				
GSW 1900	■ EDGE class 8 Link	■ EDGE class 8 Link				
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link				
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link				
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link				
CDMA BC0	■ 1xRTT Link	■ 1xRTT Link				
CDMA BC1	■ 1xRTT Link	■ 1xRTT Link				

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2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
3.	Adapter	Delta Electronics	ADP-10BWC	FCC DoC	N/A	N/A

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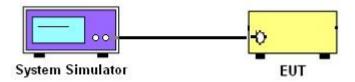
3 Conducted Test Result

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



3.3 Test Result of Conducted Test

Please refer to Appendix A.

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3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II.

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, ERP = EIRP - 2.15, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

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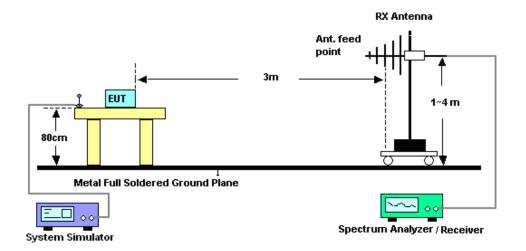
4 Radiated Test Items

4.1 Measuring Instruments

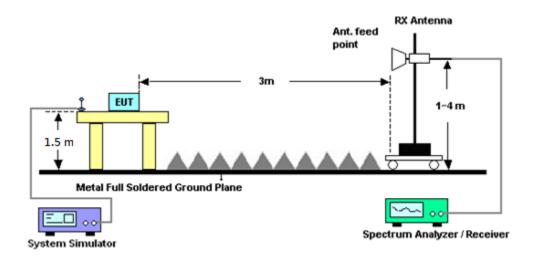
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

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4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

- The testing follows FCC KDB 971168 D01 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
- 2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12.ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - $= [30 + 10\log(P)] (dBm) [43 + 10\log(P)] (dB)$
 - = -13dBm.

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5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Base Station(Measu	Rohde & Schwarz	CMU200	117995	GSM / GPRS / WCDMA / CDMA	Jul. 26, 2015	May 31, 2016~ Jun. 02, 2016	Jul. 25, 2016	Conducted (TH05-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Nov. 16, 2015	May 26, 2016 ~ Jun. 06, 2016	Nov. 15, 2016	Radiation (03CH10-HY)
Base Station	Anritsu	MT8820C	6201432817	GSM / GPRS /WCDMA / LTE	Oct. 28, 2014	May 26, 2016 ~ Jun. 06, 2016	Oct. 27, 2016	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D	35413	30MHz~1GHz	Jan. 13, 2016	May 26, 2016 ~ Jun. 06, 2016	Jan. 12, 2017	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1325	1GHz ~ 18GHz	Sep. 30, 2015	May 26, 2016 ~ Jun. 06, 2016	Sep. 29, 2016	Radiation (03CH10-HY)
Preamplifier	Keysight	83017A	MY53270078	1GHz~26.5GHz	Nov. 13, 2015	May 26, 2016 ~ Jun. 06, 2016	Nov. 12, 2016	Radiation (03CH10-HY)
Preamplifier	MITEQ	AMF-7D-00 101800-30-1	1902246	1GHz~18GHz	Nov. 16, 2015	May 26, 2016 ~ Jun. 06, 2016	Nov. 15, 2016	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz ~ 44GHz	Oct. 15, 2015	May 26, 2016 ~ Jun. 06, 2016	Oct. 14, 2016	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	May 26, 2016 ~ Jun. 06, 2016	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-450 0-B	N/A	1~4m	N/A	May 26, 2016 ~ Jun. 06, 2016	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	May 26, 2016 ~ Jun. 06, 2016	N/A	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917057 6	18GHz ~ 40GHz	Apr. 15, 2016	May 26, 2016 ~ Jun. 06, 2016	Apr. 14, 2017	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917058 4	18GHz- 40GHz	Nov. 02, 2015	May 26, 2016 ~ Jun. 06, 2016	Nov. 01, 2016	Radiation (03CH10-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz~18GHz	Jul. 20, 2015	May 26, 2016 ~ Jun. 06, 2016	Jul. 19, 2016	Radiation (03CH10-HY)

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6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	5.50
Confidence of 95% (U = 2Uc(y))	3.30

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

Measuring Uncertainty for a Level of	5.20
Confidence of 95% (U = 2Uc(y))	3.20

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)									
Band		GSM850			GSM1900				
Channel	128	189	251	512	661	810			
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8			
GPRS class 8	<mark>32.03</mark>	31.99	31.92	29.79	<mark>29.94</mark>	29.73			
GPRS class 10	31.92	31.88	31.84	29.70	29.88	29.66			
EGPRS class 8	27.24	27.25	27.25	25.73	25.71	25.71			
EGPRS class 10	27.10	27.12	27.15	25.64	25.63	25.64			
EGPRS class 11	26.97	26.91	26.93	25.57	25.53	25.51			
EGPRS class 12	26.80	26.79	26.81	25.50	25.41	25.42			

	Conducted Power (*Unit: dBm)										
Band	WC	DMA Bar	nd V	WC	WCDMA Band II			WCDMA Band IV			
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513		
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6		
RMC 12.2K	22.91	22.90	22.80	22.84	22.92	23.00	22.96	23.00	22.92		
HSDPA Subtest-1	22.44	22.30	22.46	22.68	22.63	22.78	22.48	22.51	22.45		
HSDPA Subtest-2	22.52	22.41	22.55	22.71	22.69	22.81	22.49	22.53	22.46		
HSDPA Subtest-3	22.00	21.98	22.02	22.23	22.20	22.38	22.03	22.09	22.00		
HSDPA Subtest-4	22.04	22.03	22.07	22.27	22.25	22.44	22.05	22.11	22.04		
HSUPA Subtest-1	22.06	22.03	22.00	22.53	22.62	22.90	22.06	22.05	22.03		
HSUPA Subtest-2	20.91	20.96	21.00	21.34	21.42	21.33	20.90	21.00	20.89		
HSUPA Subtest-3	21.06	21.13	21.44	21.49	21.68	21.91	21.08	21.55	21.00		
HSUPA Subtest-4	21.45	21.22	20.99	21.62	21.25	21.97	20.98	21.64	20.75		
HSUPA Subtest-5	22.44	22.46	22.42	22.66	22.70	22.88	22.10	22.00	22.45		

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	Conducted Power (*Unit: dBm)										
Band	С	DMA 2000 B	C0	CDMA 2000 BC1							
Channel	1013	384	777	25	600	1175					
Frequency	824.7	836.52	848.31	1851.25	1880	1908.75					
1xRTT RC1 SO55	23.63	23.71	23.49	23.83	23.90	23.94					
1xRTT RC3 SO55	23.64	23.73	23.52	23.89	23.94	23.95					
1xRTT RC3 SO32 (+ F-SCH)	23.66	<mark>23.76</mark>	23.53	23.88	23.96	<mark>24.00</mark>					
1xRTT RC3 SO32 (+SCH)	23.62	23.73	23.56	23.90	23.98	23.93					
1xEVDO RTAP 153.6Kbps	23.46	23.72	23.54	23.79	23.82	23.91					
1xEVDO RETAP 4096Bits	23.66	23.71	23.51	23.77	23.84	23.90					

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Appendix B. Test Results of Radiated Test

ERP/EIRP

Channel	Mode	ERP(dBm)	ERP(W)
Lowest	CCMOEO	31.45	1.3964
Middle	GSM850 GPRS class 8	31.41	1.3836
Highest	GPRS class o	31.34	1.3614
Lowest	0014050	26.66	0.4634
Middle	GSM850	26.67	0.4645
Highest	EDGE class 8	26.67	0.4645
Lowest	MCDMA Bond V	22.33	0.1710
Middle	WCDMA Band V	22.32	0.1706
Highest	RMC 12.2Kbps	22.22	0.1667
Lowest	CDMA BCO	23.08	0.2032
Middle	CDMA BC0	23.18	0.2080
Highest	IXIXII	22.95	0.1972
Limit	ERP < 7W	Result	PASS

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Channel	Mode	EIRP(dBm)	EIRP(W)
Lowest	CCM4000	29.34	0.8590
Middle	GSM1900	29.49	0.8892
Highest	GPRS class 8	29.28	0.8472
Lowest	00144000	25.28	0.3373
Middle	GSM1900 EDGE class 8	25.26	0.3357
Highest	EDGE Class o	25.26	0.3357
Lowest	WCDMA Dand II	22.39	0.1734
Middle	WCDMA Band II	22.47	0.1766
Highest	RMC 12.2Kbps	22.55	0.1799
Lowest	CDMA DC4	23.43	0.2203
Middle	CDMA BC1	23.51	0.2244
Highest	IANTI	23.55	0.2265
Limit	EIRP < 2W	Result	Pass

Channel	Mode	EIRP(dBm)	EIRP(W)
Lowest	WCDMA Band IV RMC 12.2Kbps	22.70	0.1862
Middle		22.74	0.1879
Highest		22.66	0.1845
Limit	EIRP < 1W	Result	Pass

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Radiated Spurious Emission

				GSM850 (G	PRS class 8	3)			
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)
	1648	-57.45	-13	-44.45	-67.17	-59.21	0.98	4.89	Н
	2472	-56.23	-13	-43.23	-69.92	-58.11	1.28	5.32	Н
Lowest	3296	-53.60	-13	-40.60	-69.58	-57.01	1.54	7.10	Н
Lowest	1648	-57.07	-13	-44.07	-66.73	-58.83	0.98	4.89	V
	2472	-54.62	-13	-41.62	-68.35	-56.5	1.28	5.32	V
	3296	-54.01	-13	-41.01	-69.93	-57.42	1.54	7.10	V
	1672	-57.23	-13	-44.23	-67.11	-58.91	0.99	4.82	Н
	2512	-55.96	-13	-42.96	-69.8	-57.93	1.29	5.41	Н
Middle	3344	-53.66	-13	-40.66	-69.7	-57.27	1.56	7.31	Н
Middle	1672	-57.28	-13	-44.28	-67.07	-58.96	0.99	4.82	V
	2512	-55.39	-13	-42.39	-69.25	-57.36	1.29	5.41	V
	3344	-54.16	-13	-41.16	-70.21	-57.77	1.56	7.31	V
	1696	-57.61	-13	-44.61	-67.54	-59.21	1.00	4.75	Н
	2544	-55.12	-13	-42.12	-69.09	-57.1	1.30	5.44	Н
Lligh oct	3392	-54.55	-13	-41.55	-70.65	-58.35	1.57	7.52	Н
Highest	1696	-56.10	-13	-43.10	-65.98	-57.7	1.00	4.75	V
	2544	-55.17	-13	-42.17	-69.13	-57.15	1.30	5.44	V
	3392	-53.68	-13	-40.68	-69.88	-57.48	1.57	7.52	V

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

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				GSM850 (E	DGE class 8	3)			
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)
	1648	-58.62	-13	-45.62	-68.34	-60.38	0.98	4.89	Н
	2472	-54.68	-13	-41.68	-68.37	-56.56	1.28	5.32	Н
Lowest	3296	-53.89	-13	-40.89	-69.87	-57.3	1.54	7.10	Н
Lowest	1648	-58.17	-13	-45.17	-67.84	-59.93	0.98	4.89	V
	2472	-55.47	-13	-42.47	-69.2	-57.35	1.28	5.32	V
	3296	-54.14	-13	-41.14	-70.06	-57.55	1.54	7.10	V
	1672	-58.12	-13	-45.12	-67.97	-59.8	0.99	4.82	Н
	2512	-55.12	-13	-42.12	-68.91	-57.09	1.29	5.41	Н
Middle	3344	-53.82	-13	-40.82	-69.86	-57.43	1.56	7.31	Н
Middle	1672	-57.28	-13	-44.28	-67.01	-58.96	0.99	4.82	V
	2512	-54.79	-13	-41.79	-68.65	-56.76	1.29	5.41	V
	3344	-53.83	-13	-40.83	-69.88	-57.44	1.56	7.31	V
	1696	-59.45	-13	-46.45	-69.34	-61.05	1.00	4.75	Н
	2544	-55.40	-13	-42.40	-69.37	-57.38	1.30	5.44	Н
l limbact	3392	-54.54	-13	-41.54	-70.64	-58.34	1.57	7.52	Н
Highest	1696	-58.27	-13	-45.27	-68.17	-59.87	1.00	4.75	V
	2544	-55.41	-13	-42.41	-69.38	-57.39	1.30	5.44	V
	3392	-54.74	-13	-41.74	-70.94	-58.54	1.57	7.52	V

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				GSM1900 (0	GPRS 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)
	3702	-42.01	-13	-29.01	-58.89	-48.58	1.67	8.24	Н
	5550	-36.35	-13	-23.35	-58.99	-43.42	2.65	9.72	Н
Lowest	7398	-40.36	-13	-27.36	-67.43	-49.49	2.46	11.60	Н
Lowest	3702	-49.56	-13	-36.56	-66.57	-56.13	1.67	8.24	V
	5550	-41.14	-13	-28.14	-63.61	-48.21	2.65	9.72	V
	7398	-41.58	-13	-28.58	-68.68	-50.71	2.46	11.60	V
	3762	-38.29	-13	-25.29	-55.29	-44.92	1.69	8.31	Н
	5640	-36.17	-13	-23.17	-58.95	-43.22	2.71	9.76	Н
Middle	7518	-38.72	-13	-25.72	-66.03	-48.11	2.42	11.81	Н
Middle	3762	-47.92	-13	-34.92	-65.06	-54.55	1.69	8.31	V
	5640	-40.41	-13	-27.41	-63.03	-47.46	2.71	9.76	V
	7518	-41.13	-13	-28.13	-68.56	-50.52	2.42	11.81	V
	3822	-33.82	-13	-20.82	-51.04	-40.5	1.71	8.39	Н
	5730	-37.95	-13	-24.95	-60.9	-44.98	2.76	9.79	Н
I Baland	7638	-38.78	-13	-25.78	-66.22	-48.28	2.38	11.88	Н
Highest	3822	-43.25	-13	-30.25	-60.56	-49.93	1.71	8.39	V
	5730	-40.36	-13	-27.36	-63.14	-47.39	2.76	9.79	V
	7638	-40.30	-13	-27.30	-67.82	-49.8	2.38	11.88	V

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				GSM1900 (E	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)
	3702	-44.38	-13	-31.38	-61.23	-50.95	1.67	8.24	Н
	5550	-42.15	-13	-29.15	-64.79	-49.22	2.65	9.72	Н
Lowest	7398	-42.00	-13	-29.00	-69.07	-51.13	2.46	11.60	Н
Lowest	3702	-49.84	-13	-36.84	-66.86	-56.41	1.67	8.24	V
	5550	-46.96	-13	-33.96	-69.43	-54.03	2.65	9.72	V
	7398	-43.18	-13	-30.18	-70.48	-52.31	2.46	11.60	V
	3762	-42.10	-13	-29.10	-56.11	-48.73	1.69	8.31	Н
	5640	-38.96	-13	-25.96	-61.74	-46.01	2.71	9.76	Н
Middle	7518	-42.08	-13	-29.08	-69.39	-51.47	2.42	11.81	Н
Middle	3762	-48.06	-13	-35.06	-65.2	-54.69	1.69	8.31	V
	5640	-42.61	-13	-29.61	-65.23	-49.66	2.71	9.76	V
	7518	-42.95	-13	-29.95	-70.38	-52.34	2.42	11.81	V
	3822	-39.00	-13	-26.00	-56.21	-45.68	1.71	8.39	Н
	5730	-42.42	-13	-29.42	-65.34	-49.45	2.76	9.79	Н
I Balans	7638	-41.53	-13	-28.53	-68.97	-51.03	2.38	11.88	Н
Highest	3822	-47.36	-13	-34.36	-64.71	-54.04	1.71	8.39	V
	5730	-43.84	-13	-30.84	-66.62	-50.87	2.76	9.79	V
	7638	-43.71	-13	-30.71	-71.32	-53.21	2.38	11.88	V

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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)		
	1656	-54.28	-13	-41.28	-64.08	-56.01	0.98	4.86	Н		
	2480	-56.40	-13	-43.40	-70.09	-58.31	1.28	5.34	Н		
	3312	-53.46	-13	-40.46	-69.47	-56.94	1.55	7.17	Н		
Lowest	4136	-50.61	-13	-37.61	-68.74	-55.25	1.84	8.63	Н		
Lowest	1656	-50.74	-13	-37.74	-60.48	-52.47	0.98	4.86	V		
	2480	-53.09	-13	-40.09	-66.81	-55	1.28	5.34 7.17 8.63	V		
	3312	-47.48	-13	-34.48	-63.45	-50.96	1.55	7.17	V		
	4136	-45.36	-13	-32.36	-63.39	-50	1.84	8.63	V		
	1672	-54.85	-13	-41.85	-64.7	-56.53	0.99	4.82	Н		
	2512	-55.31	-13	-42.31	-69.15	-57.28	1.29	5.41	Н		
Middle	3344	-53.41	-13	-40.41	-69.45	-57.02	1.56	7.31	Н		
ivildale	1672	-50.61	-13	-37.61	-60.4	-52.29	0.99	4.82	V		
	2512	-51.59	-13	-38.59	-65.45	-53.56	1.29	5.41	V		
	3344	-46.60	-13	-33.60	-62.64	-50.21	1.56	7.31	V		
	1696	-56.28	-13	-43.28	-66.22	-57.88	1.00	4.75	Н		
	2544	-54.17	-13	-41.17	-68.14	-56.15	1.30	5.44	Н		
	3384	-53.22	-13	-40.22	-69.31	-56.99	1.57	7.49	Н		
LUada a at	4232	-49.48	-13	-36.48	-67.85	-54.08	1.89	8.65	Н		
Highest	1696	-50.85	-13	-37.85	-60.73	-52.45	1.00	5.34 7.17 8.63 4.86 5.34 7.17 8.63 4.82 5.41 7.31 4.82 5.41 7.31 4.75 5.44 7.49 8.65 4.75 5.44 7.49	V		
	2544	-49.48	-13	-36.48	-63.44	-51.46	1.30	5.44	V		
	3384	-45.91	-13	-32.91	-62.06	-49.68	1.57	7.49	V		
	4232	-41.89	-13	-28.89	-60.14	-46.49	1.89	8.65	V		

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	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)		
	3702	-44.51	-13	-31.51	-61.36	-51.08	1.67	8.24	Н		
	5562	-37.13	-13	-24.13	-59.76	-44.19	2.66	9.72	Н		
Lowest	7398	-44.56	-13	-31.56	-71.61	-53.69	2.46	11.60	Н		
Lowest	3702	-47.16	-13	-34.16	-64.17	-53.73	1.67	8.24	V		
	5556	-44.84	-13	-31.84	-67.31	-51.91	2.66	9.72	V		
	7398	-45.13	-13	-32.13	-72.23	-54.26	2.46	11.60	V		
	3756	-43.63	-13	-30.63	-60.64	-50.25	1.68	8.31	Н		
	5646	-34.33	-13	-21.33	-57.11	-41.38	2.71	9.76	Н		
Middle	7518	-40.41	-13	-27.41	-67.72	-49.8	2.42	11.81	Н		
Middle	3756	-47.96	-13	-34.96	-65.1	-54.58	1.68	8.31	V		
	5634	-41.98	-13	-28.98	-64.6	-49.03	2.70	9.75	V		
	7518	-41.60	-13	-28.60	-69.03	-50.99	2.42	11.81	V		
	3816	-46.74	-13	-33.74	-63.95	-53.42	1.70	8.38	Н		
	5724	-32.14	-13	-19.14	-55.06	-39.18	2.75	9.79	Н		
I limb a s t	7632	-40.51	-13	-27.51	-67.89	-50	2.39	11.88	Н		
Highest	3816	-45.25	-13	-32.25	-62.55	-51.93	1.70	11.60 8.24 9.72 11.60 8.31 9.76 11.81 8.31 9.75 11.81 8.38 9.79	V		
	5724	-37.31	-13	-24.31	-60.09	-44.35	2.75	9.79	V		
	7632	-40.51	-13	-27.51	-67.98	-50	2.39	11.88	V		

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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)	
	3426	-54.33	-13	-41.33	-70.48	-60.42	1.58	7.67	Н	
	5142	-52.37	-13	-39.37	-73.87	-59.65	2.42	9.70	Н	
Lowest	6852	-50.27	-13	-37.27	-75.98	-58.25	2.64	10.62	Н	
Lowest	3426	-53.16	-13	-40.16	-69.45	-59.25	1.58	7.67	V	
	5142	-48.18	-13	-35.18	-69.78	-55.46	2.42	9.70	V	
	6852	-48.82	-13	-35.82	-74.3	-56.8	2.64	10.62	V	
	3462	-57.22	-13	-44.22	-73.59	-63.46	1.59	7.83	Н	
	5196	-48.37	-13	-35.37	-70.02	-55.62	2.45	9.70	Н	
Middle	6930	-51.20	-13	-38.20	-77.18	-59.3	2.61	10.72	Н	
Middle	3462	-57.48	-13	-44.48	-73.87	-63.72	1.59	7.83	V	
	5196	-45.57	-13	-32.57	-67.28	-52.82	2.45	9.70	V	
	6930	-49.96	-13	-36.96	-75.67	-58.06	2.61	10.72	V	
	3510	-52.71	-13	-39.71	-68.99	-59.11	1.61	8.01	Н	
	5256	-47.71	-13	-34.71	-69.51	-54.93	2.48	9.70	Н	
	7014	-50.16	-13	-37.16	-76.41	-58.4	2.59	10.83	Н	
Highest	3510	-51.65	-13	-38.65	-68.17	-58.05	1.61	8.01	V	
	5256	-45.09	-13	-32.09	-66.95	-52.31	2.48	9.70	V	
	7014	-47.77	-13	-34.77	-73.71	-56.01	2.59	10.83	V	

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CDMA BC0 (1xRTT)										
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)	
	1648	-52.13	-13	-39.13	-61.85	-53.89	0.98	4.89	Н	
	3296	-53.15	-13	-40.15	-69.13	-56.56	1.54	7.10	Н	
	4128	-49.45	-13	-36.45	-67.55	-54.09	1.83	8.63	Н	
Lowoot	4952	-48.01	-13	-35.01	-68.84	-53.15	2.31	9.60	Н	
Lowest	1648	-49.48	-13	-36.48	-59.16	-51.24	0.98	4.89	V	
	3296	-46.90	-13	-33.90	-62.82	-50.31	1.54	7.10	V	
	4128	-44.87	-13	-31.87	-62.91	-49.51	1.83	+	V	
	4952	-44.86	-13	-31.86	-65.94	-50	2.31	9.60	V	
	1672	-52.15	-13	-39.15	-62	-53.83	0.99	4.82	Н	
	2512	-52.63	-13	-39.63	-66.47	-54.6	1.29	5.41	Н	
	3344	-49.74	-13	-36.74	-65.78	-53.35	1.56	7.31	Н	
	4182	-46.34	-13	-33.34	-64.58	-50.96	1.87	8.64	Н	
Middle	5016	-46.13	-13	-33.13	-67.27	-51.33	2.35	9.70	Н	
Miladie	1672	-48.95	-13	-35.95	-58.74	-50.63	0.99	4.89 7.10 8.63 9.60 4.82 5.41 7.31 8.64 9.70 4.82 5.41 7.31 8.64 9.70 4.75 5.44 7.52	V	
	2512	-49.19	-13	-36.19	-63.05	-51.16	1.29		V	
	3344	-42.44	-13	-29.44	-58.5	-46.05	1.56	7.31	V	
	4182	-39.86	-13	-26.86	-58.01	-44.48	1.87	8.64	V	
	5016	-41.41	-13	-28.41	-62.72	-46.61	2.35	9.70	V	
	1696	-51.74	-13	-38.74	-61.68	-53.34	1.00	4.75	Н	
	2544	-49.97	-13	-36.97	-63.94	-51.95	1.30	5.44	Н	
	3392	-49.68	-13	-36.68	-65.78	-53.48	1.57	7.52	Н	
المام مامال	4241	-46.84	-13	-33.84	-65.25	-51.44	1.90	8.65	Н	
Highest	1696	-48.80	-13	-35.80	-58.68	-50.4	1.00	4.75	V	
	2544	-47.06	-13	-34.06	-61	-49.04	1.30	5.44	V	
	3392	-42.41	-13	-29.41	-58.6	-46.21	1.57	7.52	V	
	4241	-38.94	-13	-25.94	-57.23	-43.54	1.90	8.65	V	

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	CDMA BC1 (1xRTT)										
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)		
	3702	-31.29	-13	-18.29	-61.14	-37.86	1.67	8.24	Н		
	5556	-34.30	-13	-21.30	-56.93	-41.37	2.66	9.72	Н		
Lowest	7404	-42.26	-13	-29.26	-69.37	-51.41	2.46	11.61	Н		
Lowest	3702	-45.77	-13	-32.77	-62.78	-52.34	1.67	8.24	V		
	5556	-41.93	-13	-28.93	-64.4	-49	2.66	9.72	V		
	7404	-45.32	-13	-32.32	-72.48	-54.47	2.46	11.61	V		
	3762	-41.99	-13	-28.99	-59	-48.62	1.69	8.31	Н		
	5640	-31.80	-13	-18.80	-54.58	-38.85	2.71	9.76	Н		
Middle	7518	-39.26	-13	-26.26	-66.57	-48.65	2.42	11.81	Н		
ivildale	3762	-47.94	-13	-34.94	-65.08	-54.57	1.69	8.31	V		
	5640	-39.38	-13	-26.38	-62	-46.43	2.71	9.76	V		
	7518	-43.88	-13	-30.88	-71.31	-53.27	2.42	11.81	V		
	3816	-45.80	-13	-32.80	-63.01	-52.48	1.70	8.38	Н		
	5724	-30.83	-13	-17.83	-53.75	-37.87	2.75	9.79	Н		
l limboot	7638	-40.24	-13	-27.24	-67.68	-49.74	2.38	11.88	Н		
Highest	3816	-47.23	-13	-34.23	-64.53	-53.91	1.70	8.38	V		
	5724	-35.53	-13	-22.53	-58.31	-42.57	2.75	9.79	V		
	7638	-44.48	-13	-31.48	-72	-53.98	2.38	11.88	V		

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Appendix C. Test Setup Photographs

SPORTON INTERNATIONAL INC.

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