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TEST REPORT

Application No.:	SZEM1704002920CR(SGS SZ No.: T51710200214EM)
Applicant:	TOY STATE INTERNATIONAL LTD
Address of Applicant:	Unit 905, 9/F, West Wing, Tsim Sha Tsui Centre, 66 Mody Road, TST East, Kowloon, Hong Kong
Equipment Under Test (EUT)	:
EUT Name:	Race Vision 220 FPV PRO, Race Vision 220 FPV, Race Vision FPV Goggles
Item No.:	22608, 22612, 22630 🌲
*	Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Trade Mark:	NIKKO™ AIR
Country of Origin:	China
FCC ID:	V9Q-22608R58
Standards:	47 CFR Part 15, Subpart C 15.249
Date of Receipt:	2017-04-10
Date of Test:	2017-04-21 to 2017-05-22
Date of Issue:	2017-06-01
Test Result :	Pass*

* In the configuration tested, the EUT complied with the standards specified above.



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2017-06-01		Original		

Authorized for issue by:			
	Peter Gene	_	
	Peter Geng /Project Engineer		
	Eric Fu	_	
	Eric Fu /Reviewer		

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2 Test Summary

Radio Spectrum Technical Requirement					
Item	Standard	Method	Requirement	Result	
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass	

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Conducted Disturbance at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass		
20dB Bandwidth	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass		
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass		
Radiated Emissions	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass		

Declaration of EUT Family Grouping:

Item No.: K22608, 22612, 22630

Only the itemI K22608 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above items, with only difference on number.



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4 General Information

4.1 Details of E.U.T.

Power supply:

Test voltage Cable:

Modulation type:

Antenna type:

Antenna gain:

Operation frequency:

Remote: DC 6V by 4*1.5V "AA" batteries plane: DC 7.4V rechargeable battery which charged by USB port monitor: DC 6V by 4*1.5V "AA" batteries (this report is for plane) AC 120V/60Hz USB charging line: 60cm, unshielded FM 5732MHz, 5769MHz, 5806MHz, 5843MHz Monopole antenna 2dBi

4.2 Description of Support Units

The EUT was tested as an independently unit

4.3 Measurement Uncertainty

No.	Item Measurement Uncertainty	
1	Radio Frequency	7.25 x 10-8
2	Duty cycle	0.37%
3	Occupied Bandwidth	3%
4	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	DE Dedicted power	4.5dB (below 1GHz)
1	nr naulaleu powel	4.8dB (above 1GHz)
0	Dedicted Courieus omission test	4.5dB (30MHz-1GHz)
8	Radiated Spundus emission test	4.8dB (1GHz-18GHz)
9	Temperature test	1℃
10	Humidity test	3%
11	Supply voltages	1.5%
12	Time	3%

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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-05-10	2018-05-10
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2016-10-09	2017-10-09
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2014-11-01	2017-11-01
4	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-11	2015-10-17	2018-10-17
5	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEM003-12	2014-11-24	2017-11-24
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2017-04-14	2018-04-14
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2015-05-13	2018-05-13

	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-10	2018-05-10
2	EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-09	2016-07-19	2017-07-19
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
6	Horn Antenna (18-26GHz)	ETS-Lindgren	3160	SEM003-12	2014-11-24	2017-11-24
7	Horn Antenna(26GHz- 40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2015-02-12	2018-02-12
8	Low Noise Amplifier	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2016-10-09	2017-10-09
9	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A

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Conducted Disturbance at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017-05-10	2018-05-10	
LISN	Rohde & Schwarz	ENV216	SEM007-01	2016-10-09	2017-10-09	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2017-04-14	2018-04-14	
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T8-02	EMC0120	2016-09-28	2017-09-28	
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T4-02	EMC0121	2016-09-28	2017-09-28	
2 Line ISN	Fischer Custom	FCC-TLISN- T2-02	EMC0122	2016-09-28	2017-09-28	

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09

General used equipment								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2016-10-12	2017-10-12			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2016-10-12	2017-10-12			
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2016-10-12	2017-10-12			
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-18			

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirment:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently

attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.





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7 Radio Spectrum Matter Test Results

7.1 Conducted Disturbance at AC Power Line (150kHz-30MHz)

Test Requirement Test Method: Limit: 47 CFR Part 15, Subpart C 15.207 ANSI C63.10 (2013) Section 6.2

	Limit (dBuV)				
Frequency range (MHZ)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

* Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:56 % RHAtmospheric Pressure:1015 mbarTest modeb:TX mode+charging: Keep the EUT transmitted the continuous modulation test signal at the specific channel(s) and keep battery charging (5.8G plane)

7.1.2 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 μ H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.



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Site	: Shielding Room
Condition	: CE LINE
Job No.	: 02920CR
Test Mode	:b

		Cable	LISN	Read		Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.20075	0.02	9.64	33.75	43.41	63.58	-20.17	QP
2	0.20075	0.02	9.64	24.83	34.49	53.58	-19.09	AVERAGE
3	0.21055	0.02	9.64	36.31	45.97	63.18	-17.22	QP
4	0.21055	0.02	9.64	25.34	35.00	53.18	-18.18	AVERAGE
5	0.21735	0.02	9.64	24.24	33.90	52.92	-19.02	AVERAGE
6	0.21735	0.02	9.64	34.67	44.33	62.92	-18.59	QP
7	0.29711	0.02	9.64	24.34	34.00	60.32	-26.33	QP
8	0.29711	0.02	9.64	19.23	28.89	50.32	-21.43	AVERAGE
9	0.46861	0.02	9.64	21.71	31.37	56.54	-25.17	QP
10	0.46861	0.02	9.64	14.02	23.68	46.54	-22.86	AVERAGE
11	29.061	0.15	10.45	25.80	36.40	50.00	-13.60	AVERAGE
12	29.061	0.15	10.45	31.14	41.73	60.00	-18.27	QP



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Site	: Shielding Room
Condition	: CE NEUTRAL
Job No.	: 02920CR
Test Mode	:b

		Cable	LISN	Read		Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19242	0.02	9.63	31.89	41.54	63.93	-22.39	QP
2	0.19242	0.02	9.63	26.16	35.81	53.93	-18.12	AVERAGE
3	0.20723	0.02	9.63	31.39	41.04	63.32	-22.27	QP
4	0.20723	0.02	9.63	20.38	30.03	53.32	-23.29	AVERAGE
5	0.24422	0.02	9.63	25.86	35.51	61.95	-26.44	QP
6	0.24422	0.02	9.63	14.76	24.41	51.95	-27.54	AVERAGE
7	0.35955	0.02	9.63	24.09	33.74	58.74	-25.00	QP
8	0.35955	0.02	9.63	12.15	21.80	48.74	-26.94	AVERAGE
9	0.54355	0.02	9.63	21.82	31.47	56.00	-24.53	QP
10	0.54355	0.02	9.63	8.59	18.24	46.00	-27.76	AVERAGE
11	7.486	0.09	9.78	20.01	29.88	60.00	-30.12	QP
12	7.486	0.09	9.78	14.25	24.12	50.00	-25.88	AVERAGE

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7.2 20dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.215
Test Method:	ANSI C63.10 (2013) Section 6.9
Limit:	N/A

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:23 °CHumidity:56 % RHAtmospheric Pressure:1015 mbarTest modeb:TX mode+charging: Keep the EUT transmitted the continuous modulation test
signal at the specific channel(s) and keep battery charging (5.8G plane)
c:TX mode_Keep the EUT transmitted the continuous modulation test signal at the
specific channel(s) (5.8G plane)

The worst case: c:TX mode_Keep the EUT transmitted the continuous modulation test signal at the specific channel(s) (5.8G plane)

7.2.2 Measurement Procedure and Data

Measurement Data

Test Channel	20dB bandwidth (MHz)	Results
5732	4.05	Pass
5806	4.47	Pass
5843	4.50	Pass



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7.3 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement47 CFR Part 15, Subpart C 15.249(a)Test Method:ANSI C63.10 (2013) Section 6.5&6.6Measurement Distance:3mLimit:

Frequency	Limit (dBuV/m @3m)	Remark	
	94.0	Average Value	
572510HZ-587510HZ	114.0	Peak Value	



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7.3.1 E.U.T. Operation

Operating Environment:

Temperature:23 °CHumidity:54 % RHAtmospheric Pressure:1015 mbarTest modeb:TX mode+charging: Keep the EUT transmitted the continuous modulation test
signal at the specific channel(s) and keep battery charging (5.8G plane)
c:TX mode_Keep the EUT transmitted the continuous modulation test signal at the
specific channel(s) (5.8G plane)

The worst case: c:TX mode_Keep the EUT transmitted the continuous modulation test signal at the specific channel(s) (5.8G plane)

7.3.2 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.



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Mode:b; Polarization:Horizontal; Modulation Type:FM; Channel:Low; Detector: peak

Freq	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
5732.754	34.54	8.49	38.35	98.61	103.29	114	-10.71

Mode:b; Polarization:Horizontal; Modulation Type:FM; Channel:Low; Detector: average

Freq	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
5732.754	34.54	8.49	38.35	79.48	84.16	94	-9.84

Mode:b; Polarization:Vertical; Modulation Type:FM; Channel:Low; Detector: peak

Freq	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
5732.754	34.54	8.49	38.35	96.46	101.14	114	-12.86

Mode:b; Polarization:Vertical; Modulation Type:FM; Channel:Low; Detector: average

Freq	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
5732.754	34.54	8.49	38.35	79.19	83.87	94	-10.13

Mode:b; Polarization:Horizontal; Modulation Type:FM; Channel:middle; Detector: peak

Freq	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
5806.196	34.59	8.56	38.34	95.83	100.64	114	-13.36

Mode:b; Polarization:Horizontal; Modulation Type:FM; Channel:middle; Detector: average

Freq	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
5806.196	34.59	8.56	38.34	78.01	82.69	94	-11.31



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Mode:b; Polarization:Vertical; Modulation Type:FM; Channel:middle; Detector: peak

Freq	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
5806.847	34.59	8.56	38.34	93.64	98.45	114	-15.55

Mode:b; Polarization:Vertical; Modulation Type:FM; Channel:middle; Detector: average

Freq	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
5806.847	34.59	8.56	38.34	77.06	81.74	94	-12.26

Mode:b; Polarization:Horizontal; Modulation Type:FM; Channel:High; Detector: peak

Freq	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
5840.847	34.61	8.6	38.33	95.66	100.54	114	-13.46

Mode:b; Polarization:Horizontal; Modulation Type:FM; Channel:High; Detector: average

Freq	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
5840.847	34.61	8.6	38.33	78.35	83.03	94	-10.97

Mode:b; Polarization:Vertical; Modulation Type:FM; Channel:High; Detector: peak

Freq	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
5843.869	34.61	8.6	38.33	93.06	97.94	114	-16.06

Mode:b; Polarization:Vertical; Modulation Type:FM; Channel:High; Detector: average

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Freq	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
5843.869	34.61	8.6	38.33	76.75	81.43	94	-12.57

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7.4 Radiated Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)
Test Method:	ANSI C63.10 (2013) Section 6.4&6.5&6.6
Measurement Distance:	3m
Limit:	

Frequency(MHz)	Field strength	Limit	Detector	Measurement Distance
·····	(microvolts/meter)	(dBuV/m)		(meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	500	54.0	QP	3
Above 1000	500	54.0	AV	3

7.4.1 E.U.T. Operation

Operating Environment:

Temperature:23 °CHumidity:54 % RHAtmospheric Pressure:1015 mbarTest modeb:TX mode+charging: Keep the EUT transmitted the continuous modulation test
signal at the specific channel(s) and keep battery charging (5.8G plane)
c:TX mode_Keep the EUT transmitted the continuous modulation test signal at the
specific channel(s) (5.8G plane)

The worst case: c:TX mode_Keep the EUT transmitted the continuous modulation test signal at the specific channel(s) (5.8G plane)

7.4.2 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



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Below 1G:

Mode:c; Polarization:Horizontal



Condition: 3m HORIZONTAL Job No. : 2920CR Test mode: c

	Cat Freq Lo		le Ant Preamp is Factor Factor		Read Level	Level	Limit Line	Over Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.96	0.60	18.16	27.35	42.33	33.74	40.00	-6.26
2	42.60	0.66	11.96	27.31	40.87	26.18	40.00	-13.82
3 рр	334.86	2.01	14.45	26.68	54.52	44.30	46.00	-1.70
4	378.58	2.14	16.04	26.99	46.74	37.93	46.00	-8.07
5	793.40	3.18	22.07	27.31	33.08	31.02	46.00	-14.98
6	935.55	3.64	23.30	26.61	32.79	33.12	46.00	-12.88



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Mode:b; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 2920CR Test mode: c

	Cable	Ant	Preamp	Read		Limit	0ver
Freq	Loss	Factor	Factor	Level	Level	Line	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
43.51	0.68	11.56	27.31	30.67	15.60	40.00	-24.40
107.51	1.22	8.72	27.15	30.95	13.74	43.50	-29.76
134.56	1.29	7.88	26.98	32.24	14.43	43.50	-29.07
162.04	1.34	9.58	26.85	29.58	13.65	43.50	-29.85
344.39	2.04	14.10	26.75	44.55	33.94	46.00	-12.06
584.79	2.69	19.37	27.57	30.95	25.44	46.00	-20.56
	Freq MHz 43.51 107.51 134.56 162.04 344.39 584.79	Cable Freq Loss MHz dB 43.51 0.68 107.51 1.22 134.56 1.29 162.04 1.34 344.39 2.04 584.79 2.69	Cable Ant Freq Loss Factor MHz dB dB/m 43.51 0.68 11.56 107.51 1.22 8.72 134.56 1.29 7.88 162.04 1.34 9.58 344.39 2.04 14.10 584.79 2.69 19.37	Cable Ant Preamp Freq Loss Factor Factor MHz dB dB/m dB 43.51 0.68 11.56 27.31 107.51 1.22 8.72 27.15 134.56 1.29 7.88 26.98 162.04 1.34 9.58 26.85 344.39 2.04 14.10 26.75 584.79 2.69 19.37 27.57	Cable Ant Preamp Read Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 43.51 0.68 11.56 27.31 30.67 107.51 1.22 8.72 27.15 30.95 134.56 1.29 7.88 26.98 32.24 162.04 1.34 9.58 26.85 29.58 344.39 2.04 14.10 26.75 44.55 584.79 2.69 19.37 27.57 30.95	Cable Ant Preamp Read Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 43.51 0.68 11.56 27.31 30.67 15.60 107.51 1.22 8.72 27.15 30.95 13.74 134.56 1.29 7.88 26.98 32.24 14.43 162.04 1.34 9.58 26.85 29.58 13.65 344.39 2.04 14.10 26.75 44.55 33.94 584.79 2.69 19.37 27.57 30.95 25.44	Cable Ant Preamp Read Limit Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m 43.51 0.68 11.56 27.31 30.67 15.60 40.00 107.51 1.22 8.72 27.15 30.95 13.74 43.50 134.56 1.29 7.88 26.98 32.24 14.43 43.50 162.04 1.34 9.58 26.85 29.58 13.65 43.50 344.39 2.04 14.10 26.75 44.55 33.94 46.00 584.79 2.69 19.37 27.57 30.95 25.44 46.00



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Above 1G:

Mode:c; Polarization:Horizontal; Modulation Type:FM; Channel:Low; Detector: Peak

	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
Fied (MHZ)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
7840.053	36.51	9.98	36.54	42.82	53.35	74.00	-20.65
9443.290	37.40	10.92	35.18	38.67	52.35	74.00	-21.65
11464.000	38.07	12.33	35.49	38.20	53.80	74.00	-20.20
13254.890	38.70	13.75	38.25	37.40	52.56	74.00	-21.44
15185.920	41.34	15.00	38.70	34.90	53.37	74.00	-20.63
17196.000	43.04	17.50	36.20	28.80	53.89	74.00	-20.11

Mode:c; Polarization:Vertical; Modulation Type:FM; Channel:Low; Detector: Peak

Frog (MHz)	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
Fied (MHZ)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
7613.837	36.37	9.89	36.75	42.61	52.68	74.00	-21.32
9578.025	37.52	11.03	35.11	38.89	52.90	74.00	-21.10
11464.000	38.07	12.33	35.49	44.13	59.73	74.00	-14.27
13610.090	38.73	14.22	38.61	37.92	53.09	74.00	-20.91
15446.290	41.39	15.21	38.41	34.78	53.90	74.00	-20.10
17196.000	43.04	17.50	36.20	28.17	53.26	74.00	-20.74

Mode:c; Polarization:Vertical; Modulation Type:FM; Channel:Low; Detector: Average:

,	,		,	,	<u> </u>		
Frog (MHz)	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
11464.000	38.07	12.33	35.49	34.50	50.10	54.00	-3.90



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Model:c, Polarization:Horizontal, Modulation Type:FM; Channel:Middle; Detector: Peak							
	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
FIEQ (IVIEZ)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
7795.750	36.48	9.96	36.58	43.12	53.56	74.00	-20.44
9452.214	37.42	10.92	35.17	38.92	52.63	74.00	-21.37
11612.000	38.21	12.35	35.52	37.83	53.61	74.00	-20.39
13292.500	38.68	13.80	38.29	37.59	52.72	74.00	-21.28
15651.890	41.34	15.37	38.18	33.71	53.25	74.00	-20.75
17418.000	43.30	18.09	36.09	27.79	53.79	74.00	-20.21

Mode:c; Polarization:Horizontal; Modulation Type:FM; Channel:middle; Detector: Peak

Mode:c; Polarization:Vertical; Modulation Type:FM; Channel:middle; Detector: Peak

Freq (MHz)	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level (dBuV/m)	Limit_Line	Over_Limit
	((((((((((((((((((((((((((((((((((((((((48)	(48)				
7464.314	36.31	9.83	36.88	42.69	52.50	74.00	-21.50
9266.588	37.09	10.83	35.27	40.43	53.59	74.00	-20.41
11612.000	38.21	12.35	35.52	44.00	59.78	74.00	-14.22
14027.700	39.27	14.60	39.00	37.40	52.94	74.00	-21.06
15920.250	41.23	15.58	37.89	33.36	53.36	74.00	-20.64
17418.000	43.30	18.09	36.09	27.02	53.02	74.00	-20.98

Mode:c; Polarization:Vertical; Modulation Type:FM; Channel:middle; Detector:Average:

Freq (MHz)	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
11612.000	38.21	12.35	35.52	34.11	49.89	54.00	-4.11



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	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
ried (IVInz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
7592.294	36.36	9.89	36.77	42.17	52.21	74.00	-21.79
9632.455	37.53	11.08	35.08	38.65	52.76	74.00	-21.24
11686.000	38.29	12.36	35.54	37.51	53.38	74.00	-20.62
13713.310	38.86	14.32	38.71	37.68	52.94	74.00	-21.06
15460.890	41.39	15.22	38.39	34.43	53.58	74.00	-20.42
17529.000	43.45	18.39	36.04	26.38	53.01	74.00	-20.99

Mode:c; Polarization:Horizontal; Modulation Type:FM; Channel:High; Detector: Peak

Mode:c; Polarization:Vertical; Modulation Type:FM; Channel:High; Detector: Peak

	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
7832.651	36.50	9.98	36.55	42.40	52.91	74.00	-21.09
9257.840	37.07	10.82	35.27	39.98	53.11	74.00	-20.89
11686.000	38.29	12.36	35.54	44.74	60.61	74.00	-13.39
13830.370	39.00	14.43	38.83	37.99	53.34	74.00	-20.66
16177.920	41.74	15.78	37.53	32.13	53.13	74.00	-20.87
17529.000	43.45	18.39	36.04	27.19	53.82	74.00	-20.18

Mode:c; Polarization:Vertical; Modulation Type:FM; Channel:High; Detector: Average

Freq (MHz)	Antenna_Factor	Cable_Loss	Preamp_Gain	Read_Level	Level	Limit_Line	Over_Limit
	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
11686.000	38.29	12.36	35.54	35.04	50.91	54.00	-3.09

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 2) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- Tests were conducted in H/L/M channel and the worst case(Low channel) is reported for frequency band 30MHz to 1GHz



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8 Photographs

8.1 Conducted Disturbance at AC Power Line (150kHz-30MHz) Test Setup





8.2 Radiated Emissions Test Setup

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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8.3 EUT Constructional Details Refer to Appendix B - Photographs of EUT Constructional Details for SZEM1704002920CR.

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