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2016-10-11
2016-10-08 to 2016-10-09
2016-09-26
47 CFR Part 15, Subpart C (2015)
PQN44519TX2G4
ARH
44519TX
AIR HOGS EJECTOR JET
SpinMaster Toys Far East LTD.
SpinMaster Toys Far East LTD.
SZEM1609008212CR (SGS SZ No.:T51610250108EM)

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

Authorized Signature:



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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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## 2 Version

Revision Record							
Version	Remark						
00		2016-10-11		Original			

Authorized for issue by:		
Tested By	Gebin Sun	2016-10-09
	(Gebin Sun) /Project Engineer	Date
Checked By	Eric Fu (Eric Fu) /Reviewer	2016-10-11 Date

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## 3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 (2013)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2013)	PASS
Field Strength of the Fundamental Signal	47 CFR Part 15, Subpart C Section 15.249 (a)	ANSI C63.10 (2013)	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	ANSI C63.10 (2013)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.249(a)/15.205	ANSI C63.10 (2013)	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215 (c)	ANSI C63.10 (2013)	PASS

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## 5 General Information

### 5.1 Client Information

Applicant:	SpinMaster Toys Far East LTD.
Address of Applicant:	1113, 11th Floor, Chinachen Golden Plaza, 77 Mody Road, Tsim Sha Tsui East, Kowloon, Hong Kong
Manufacturer:	SpinMaster Toys Far East LTD.

## 5.2 General Description of EUT

Product Name:	AIR HOGS EJECTOR JET
Item No.:	44519TX
Brand Name::	ARH
Family No.:	44519
Request Age Grading:	8+
Date Code:	60915AWS
Country of Origin:	Made In China
Country of Destination:	US
Frequency Range:	2.4GHz (2407 MHz ~ 2477MHz )
Modulation Type:	GFSK
Sample Type:	Portable production
Antenna Type:	Integral
Antenna Gain:	0dBi
Power Supply:	9.0V DC(1.5V x 6 "AA" Size Batteries) for remote controller

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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency		
1CH	2407 MHz	7CH	2435 MHz	16CH	2467 MHz		
2CH	2408 MHz	8CH	2436 MHz	17CH	2468 MHz		
3CH	2409 MHz	9CH	2438 MHz	18CH	2469 MHz		
4CH	2410 MHz	10CH	2440 MHz	19CH	2470 MHz		
5CH	2411 MHz	11CH	2441 MHz	20CH	2471 MHz		
6CH	2413 MHz	12CH	2442 MHz	21CH	2472 MHz		
		13CH	2443 MHz	22CH	2473 MHz		
		14CH	2444 MHz	23CH	2474 MHz		
		15CH	2445 MHz	24CH	2475 MHz		
				25CH	2476 MHz		
				26CH	2477 MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH1)	2407MHz
The Middle channel(CH12)	2442MHz
The Highest channel(CH26)	2477MHz



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## 5.3 Test Environment and Mode

Operating Environment:	Operating Environment:				
Temperature:	25.0 °C				
Humidity:	50 % RH				
Atmospheric Pressure: 1005 mbar					
Test mode:	Test mode:				
Transmitting mode: Keep the EUT in transmitting mode with modulation.					

### **5.4 Description of Support Units**

The EUT has been tested independently.

### 5.5 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.



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### **5.6 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.

### 5.7 Deviation from Standards

None.

### **5.8 Abnormalities from Standard Conditions**

None.

### 5.9 Other Information Requested by the Customer

None.



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## 5.10 Equipment List

	RE in Chamber					
ltem	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	2016-05-13	2017-05-13
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	2016-04-25	2017-04-25
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

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	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	2016-05-13	2017-05-13
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEM004-04	2016-04-25	2017-04-25
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	2015-10-09	2016-10-09
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	2015-10-09	2016-10-09
9	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A

	RF connected test												
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date							
nem		Manufacturer	Model No.	inventory no.	(yyyy-mm-dd)	(yyyy-mm-dd)							
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2015-10-09	2016-10-09							
2	Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2015-10-17	2016-10-17							
3	Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25							
4	Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2015-10-09	2016-10-09							

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## 6 Test results and Measurement Data

### 6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203									
15.203 requirement:	.203 requirement:									
	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 uniq	na that uses a unique coupling to the intentional radiator, the manufacturer may design the									
unit so that a broken antenn	a can be replaced by the user, but the use of a standard antenna jack									
or electrical connector is pro	phibited.									
EUT Antenna:										
The antenna is integrated on	the main PCB and no consideration of replacement. The best case									
gain of the antenna is 0dBi.										

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### 6.2 Radiated Spurious Emissions

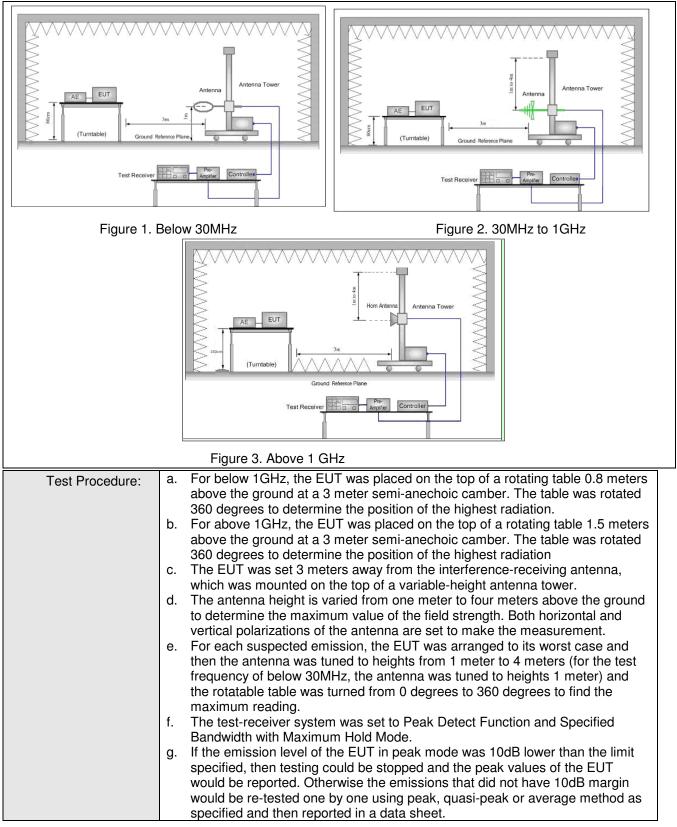
### 6.2.1 Spurious Emissions

Test Requirement:	47 CFR Part 15C Sectio	n 15	5.249 and 15.20	)9					
Test Method:	ANSI C63.10: 2013								
Test Site:	Measurement Distance:	3m	(Semi-Anechoi	c Chamber)	)				
Receiver Setup:	Frequency		Detector	RBW		VBW		Remark	
	0.009MHz-0.090MHz	2	Peak	10kHz		30KHz		Peak	
	0.009MHz-0.090MHz		Average	10kHz		30KHz		Average	
	0.090MHz-0.110MHz		Quasi-peak	10kHz		30KHz	C	Quasi-peak	
	0.110MHz-0.490MHz		Peak	10kHz		30KHz		Peak	
	0.110MHz-0.490MHz		Average	10kHz		30KHz		Average	
	0.490MHz -30MHz		Quasi-peak	10kHz		30kHz	C	Quasi-peak	
	30MHz-1GHz		Quasi-peak	100 kHz		300KHz	C	Quasi-peak	
	Above 1GHz		Peak	1MHz		3MHz		Peak	
			Peak	1MHz		10Hz		Average	
Limit: (Spurious Emissions)	Frequency		ield strength icrovolt/meter )	Limit (dBuV/m	)	Remark		Measurement distance (m)	
	0.009MHz-0.490MHz	2	400/F(kHz)	-		-		300	
	0.490MHz-1.705MHz	24	4000/F(kHz)	-		-		30	
	1.705MHz-30MHz		30	-		-		30	
	30MHz-88MHz		100	40.	0	Quasi-pea	k	3	
	88MHz-216MHz		150	43.	5	Quasi-pea	k	3	
	216MHz-960MHz		200	46.	0	Quasi-pea	k	3	
	960MHz-1GHz		500	54.	0	Quasi-pea	k	3	
	Above 1GHz		500	54.	0	Average		3	
Note: 15.35(b), Unless otherwise specified, the limit on peak ra is 20dB above the maximum permitted average emission equipment under test. This peak limit applies to the to radiated by the device.								pplicable to the	
Limit:	Frequency		Limit (dBuV/i	m @3m)		Remark			
(Field strength of the			94.0	)	A	Average Val	ue		
fundamental signal)	2400MHz-2483.5MH	2400MHz-2483.5MHz 114.0							
Test Setup:									

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	1 age . 14 61 61					
	<ul> <li>h. Test the EUT in the lowest channel, the middle channel, the Highest channel</li> <li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ul>					
Instruments Used:	Refer to section 5.10 for details					
Exploratory Test Mode:	Transmitting mode					
Final Test Mode:	Pretest the EUT at Transmitting mode					
	Only the worst case is recorded in the report.					
Test Results:	Pass					

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#### **Measurement Data**

#### 6.2.1.1 Field Strength Of The Fundamental Signal

Peak value:

i eak value.								
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2406.836	28.63	5.35	38.15	101.81	97.64	114.00	-16.36	Horizontal
2406.938	28.63	5.35	38.15	99.74	95.57	114.00	-18.43	Vertical
2441.719	28.79	5.38	38.15	100.26	96.28	114.00	-17.72	Horizontal
2441.839	28.79	5.38	38.15	98.38	94.40	114.00	-19.60	Vertical
2477.281	28.96	5.40	38.15	101.15	97.36	114.00	-16.64	Horizontal
2476.721	28.95	5.40	38.15	97.36	93.56	114.00	-20.44	Vertical

#### Average value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2406.836	28.63	5.35	38.15	88.63	84.46	94.00	-9.54	Horizontal
2406.938	28.63	5.35	38.15	86.57	82.40	94.00	-11.60	Vertical
2441.719	28.79	5.38	38.15	87.49	83.51	94.00	-10.49	Horizontal
2441.839	28.79	5.38	38.15	85.27	81.29	94.00	-12.71	Vertical
2477.281	28.96	5.40	38.15	88.51	84.72	94.00	-9.28	Horizontal

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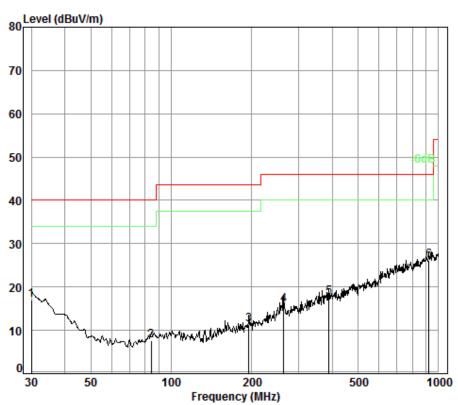
0ver

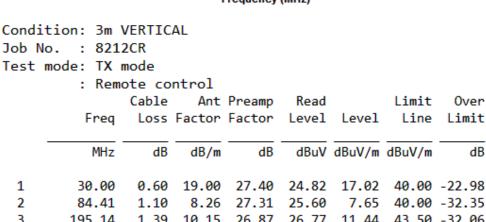
dB

Limit

#### 6.2.1.2 Spurious Emissions

Radiated emission below 1GHz									
Test mode:	Transmitter mode	Polarization:	Vertical						





7.65 40.00 -32.35 3 195.14 1.39 10.15 26.87 26.77 11.44 43.50 -32.06 4 263.82 1.74 12.48 26.68 28.46 16.00 46.00 -30.00 17.64 46.00 -28.36 5 389.35 2.17 16.19 27.05 26.33 6 pp 919.29 3.62 23.35 26.84 26.02 26.15 46.00 -19.85

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Test mode:	Transmitter mode	Polarization:	Н	Horizontal		
80 Level (dBuV/I	<b>m)</b>					
70				_		
60				-		
50				<b>F</b>		
				<b>-</b>		
40						
30				<u>.</u>		
		Le Proper March Martin Space of the state of	State State			
20		م الله ال	Martin Contraction			
		1111 Jan Brow How We W				
10	ma male product and	A Republic With the				
0 30 5	0 100	200		 1000		
50 5		uency (MHz)	500	1000		
c 111 - 2						
Condition: 3m Job No. : 821						
Test mode: TX						
: Rem	ote control					
	Cable Ant Pro			lver		
Freq	Loss Factor Fa	ctor Level Leve	l Line Li	lmit		
MHz	dB dB/m	dB dBuV dBuV/	m dBuV/m	dB		
1 31.95			8 40.00 -23			
2 160.91	1.34 9.68 2	7.00 26.55 10.5	7 43.50 -32	2.93		
2 160.91 3 268.49	1.34 9.68 2 1.76 12.57 2	7.00 26.55 10.5 5.67 26.57 14.2	7 43.50 -32 3 46.00 -31	2.93 1.77		
2 160.91	1.34 9.68 2 1.76 12.57 2 2.21 16.39 2	7.00 26.55 10.5 5.67 26.57 14.2	7 43.50 -32 3 46.00 -31 0 46.00 -28	2.93 1.77 3.10		

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Above 1GH	z									Above 1GHz										
Test mode:	Test mode: Transmit		mitting	Test channel:		Lowest		Remark:		Peak										
Frequency (MHz)	Fa	tenna actor B/m)	Cable loss (dB)	Preamp Factor (dB)	Read Leve (dBu\		Level (dBuV/m)	Limit Line (dBuV/m)	Ov Lin (dE	nit	Polarization									
4141.794	3	3.60	7.99	38.76	45.09	9	47.92	74.00	-26.	08	Vertical									
4814.000	34	4.18	8.88	39.03	47.90	)	51.93	74.00	-22.	07	Vertical									
6033.930	34	4.73	10.52	38.98	44.77	7	51.04	74.00	-22.	96	Vertical									
7221.000	3	6.41	10.69	38.17	43.05	5	51.98	74.00	-22.	02	Vertical									
9628.000	3	7.53	12.51	36.98	39.40	)	52.46	74.00	-21.	54	Vertical									
11625.290	3	8.23	14.16	37.94	39.02	2	53.47	74.00	-20.	53	Horizontal									
3786.875	3	3.03	7.74	38.60	44.90	)	47.07	74.00	-26.	93	Horizontal									
4814.000	34	4.18	8.88	39.03	49.24	1	53.27	74.00	-20.	73	Horizontal									
6066.451	34	4.76	10.47	38.96	45.05	5	51.32	74.00	-22.	68	Horizontal									
7221.000	3	6.41	10.69	38.17	43.45	5	52.38	74.00	-21.	62	Horizontal									

Test mode:	Test mode: Trans		Test channel:		Middle	Remark:	P	Peak	
Frequency (MHz)	Antenna Factor (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3653.574	32.65	7.69	38.54	44.32	46.12	74.00	-27.88	Vertical	
4884.000	34.30	8.98	39.06	48.03	52.25	74.00	-21.75	Vertical	
6154.034	34.83	10.36	38.90	44.68	50.97	74.00	-23.03	Vertical	
7326.000	36.37	10.73	38.06	42.15	51.19	74.00	-22.81	Vertical	
9768.000	37.55	12.59	36.91	39.15	52.38	74.00	-21.62	Vertical	
11667.020	38.27	14.20	37.98	38.66	53.15	74.00	-20.85	Horizontal	
3588.694	32.46	7.66	38.51	45.29	46.90	74.00	-27.10	Horizontal	
4884.000	34.30	8.98	39.06	48.25	52.47	74.00	-21.53	Horizontal	
5948.056	34.67	10.42	39.00	46.24	52.33	74.00	-21.67	Horizontal	
7326.000	36.37	10.73	38.06	41.93	50.97	74.00	-23.03	Horizontal	

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Test mode:	Trans	mitting	Test chai	nnel:	Highest		Remark:		Peak	
Frequency (MHz)	Antenna Factor (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV		Level (dBuV/m)	Limit Line (dBuV/m)	Ove Lim (dE	it	Polarization
3746.382	32.91	7.72	38.59	44.93		46.97	74.00	-27.	03	Vertical
4954.000	34.42	9.08	39.08	48.46		52.88	74.00	-21.	12	Vertical
6077.331	34.76	10.46	38.95	45.04		51.31	74.00	-22.	69	Vertical
7431.000	36.33	10.76	37.95	42.38		51.52	74.00	-22.	48	Vertical
9908.000	37.58	12.66	36.84	39.18		52.58	74.00	-21.	42	Vertical
11963.380	38.56	14.52	38.26	39.12		53.94	74.00	-20.	06	Horizontal
4017.537	33.60	7.83	38.71	45.11		47.83	74.00	-26.	17	Horizontal
4954.000	34.42	9.08	39.08	48.36		52.78	74.00	-21.	22	Horizontal
6333.012	34.97	10.13	38.79	45.97	,	52.28	74.00	-21.	72	Horizontal
7431.000	36.33	10.76	37.95	41.89		51.03	74.00	-22.	97	Horizontal

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.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



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## 6.3 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15	5.209 and 15.205							
Test Method:	ANSI C63.10: 2013								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Limit(band edge):	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.								
	Frequency	Limit (dBuV/m @3m)	Remark						
	30MHz-88MHz	40.0	Quasi-peak Value						
	88MHz-216MHz	43.5	Quasi-peak Value						
	216MHz-960MHz	46.0	Quasi-peak Value						
	960MHz-1GHz	54.0	Quasi-peak Value						
	Above 1GHz	54.0	Average Value						
	Above IGHZ	74.0	Peak Value						
Test Setup:									
AE EUT (Turntable) Ground Reference Plane Test Receiver	Antenna Tower	AE EUT (Turntable) Ground Releasos Plane Test Receiver Figure 2 About 1							
Figure 1. 30MHz	IGHZ	Figure 2. Above 1	GHZ						

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Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	<ul> <li>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 semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> </ul>
	<ul> <li>c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> </ul>
	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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	<li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li>
	g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
	<ul> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case</li> </ul>
	<ol> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol>
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Pretest the EUT at Transmitting mode Only the worst case is recorded in the report.
Test Results:	Pass



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#### **Measurement Data**

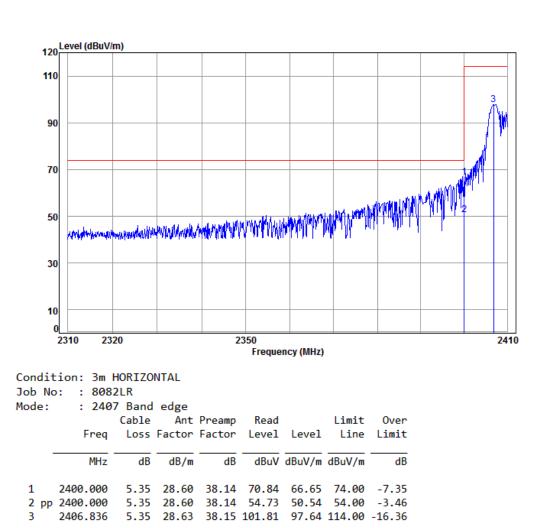
orse	case							
de:	Case		Test channe	el: Lowes	t	Remark:	1	/ertical
uc.								
	Lovel (dBu)	/m)						
1	120 <mark>Level (dBuV</mark>							
	110							
						3	3	
	90						And I	
	70							
					البريس	JAN AND AND AND AND AND AND AND AND AND A		
	50			an aldah sin menanadi	M I CHINA M	"WPN 1		
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	30						_	
	10							
	0							
	2310 23	320	2350				2410	
			Frequence	cy (MHz)				
Cond	ition: 3m	Vertical						
Job								
Mode	: : 240	7 Band edge						
noue		Cable Ant P	reamp Read	Limit	0ver			
noue		Cable And I			Limit			
noue	Freq		actor Level	Level Line	LTWIC			
noue		Loss Factor F						
noue	Freq MHz			Level Line IBuV/m dBuV/m				
	MHz	Loss Factor F dB dB/m	dB dBuV d	IBuV/m dBuV/m	dB			
1		Loss Factor F 	dB dBuV d 38.14 66.99	IBuV/m dBuV/m				

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Worse case mode:		Test channel:	Lowest	Remark:	Horizontal
	•	•	•	•	•

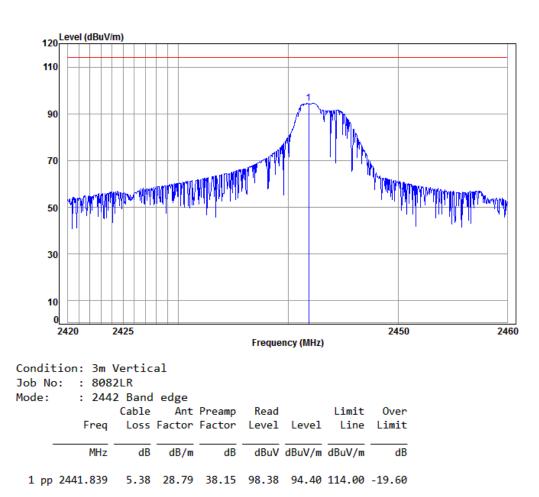


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	Worse case mode:		Test channel:	Middle	Remark:	Vertical
--	------------------	--	---------------	--------	---------	----------

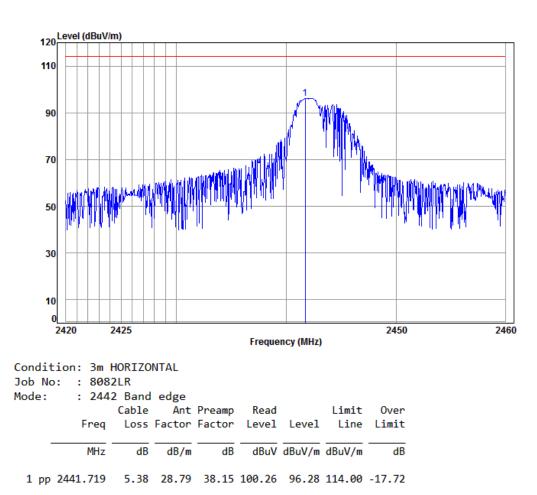


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Worse case mode:	Test channel:	Middle	Remark:	Horizontal

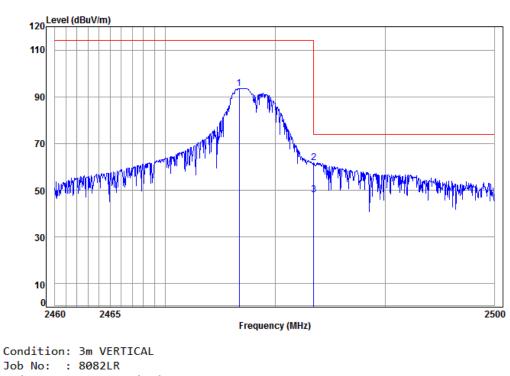


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Worse case mode:	Test channel:	Highest	Remark:	Vertical



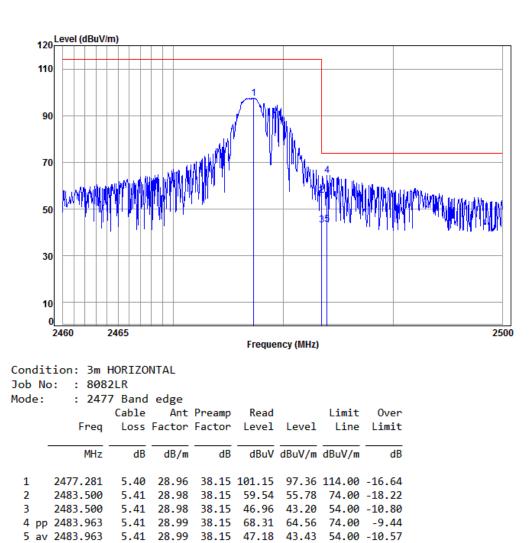
Mode:			Ant	Preamp Factor			Limit Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2 3 pp	2476.721 2483.500 2483.500	5.41	28.98	38.15 38.15 38.15	65.71	61.95	74.00	-12.05

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Worse case mode:	Test channel:	Highest	Remark:	Horizontal



Note:

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

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### 6.4 20dB Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.215			
Test Method:	ANSI C63.10:2013			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Instruments Used:	Refer to section 5.10 for details			
Test mode:	Transmitting mode			
Limit:	N/A			
Test Results:	Pass			

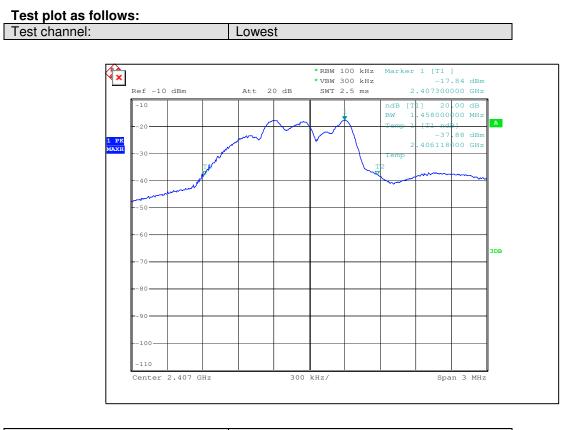
#### **Measurement Data**

Test channel	20dB bandwidth (MHz)	Results
Lowest	1.458	Pass
Middle	1.326	Pass
Highest	1.572	Pass

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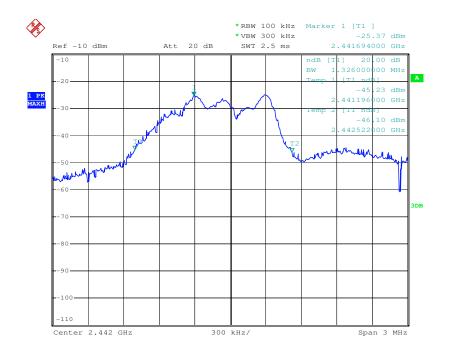


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#### Test channel:

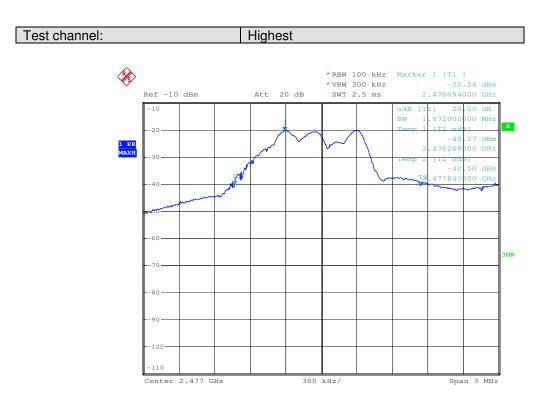
Middle



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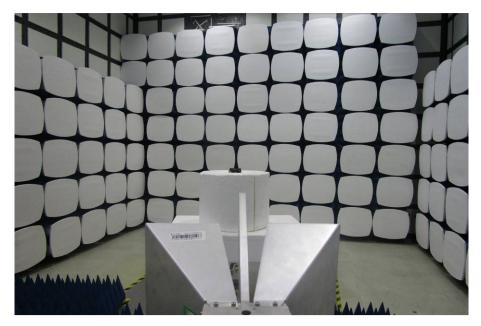
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## 7 Photographs

Test Item No.: 44519TX

### 7.1 Radiated Emission Test Setup





## 7.2 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1609008212CR.

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