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Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM180800785502

Fax: +86 (0) 755 2671 0594 Page: 1 of 42

TEST REPORT

Application No.: SZEM1808007855CR

Applicant: XIONG FA HANG Toy Craft Factory

Address of Applicant: FENGXIN NO.1 ROAD, CHENGHAI DISTRICT, SHANTOU, China

Equipment Under Test (EUT):

EUT Name: Remote control car series

Model No.: 88030, 88031, 88032, 88033, 88034, 88035, 88036, 88037, 88038, 88039,

88040, 88041, 88042, 88043, 88044, 88045, 88046, 88047, 88048, 88049, 88050, 88051, 88052, 88053, 88054, 88055, 88056, 88057, 88058, 88059, 88060, 88061, 88062, 88063, 88064, 88065, 88066, 88067, 88068, 88069, 89001, 89002, 89003, 89004, 89005, 89006, 89007, 89008, 89009, 89010, 89011, 89012, 89013, 89014, 89015, 89016, 89017, 89018, 89019, 89020, 89021, 89022, 89023, 89024, 89025, 89026, 89027, 89028, 89029, 89030, 89031, 89032, 89033, 89034, 89035, 89036, 89037, 89038, 89039, 89040

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: 2AJDV20180888

Standard(s): 47 CFR Part 15, Subpart C 15.249

Date of Receipt: 2018-08-28

Date of Test: 2018-08-29 to 2018-09-18

Date of Issue: 2018-09-18

Test Result: Pass*



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



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	Revision Record						
Version	Version Chapter Date Modifier Rema						
01		2018-09-18		Original			

Authorized for issue by:		
	Bim chen	
	Bill Chen /Project Engineer	_
	EvicFu	
	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			
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			
Restricted Band Around Fundamental Frequency	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 15.205 & 15.249(d) & 15.209	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			

Remark:

Model No.: 88030, 88031, 88032, 88033, 88034, 88035, 88036, 88037, 88038, 88039, 88040, 88041, 88042, 88043, 88044, 88045, 88046, 88047, 88048, 88049, 88050, 88051, 88052, 88053, 88054, 88055, 88056, 88057, 88058, 88059, 88060, 88061, 88062, 88063, 88064, 88065, 88066, 88067, 88068, 88069, 89001, 89002, 89003, 89004, 89005, 89006, 89007, 89008, 89009, 89010, 89011, 89012, 89013, 89014, 89015, 89016, 89017, 89018, 89019, 89020, 89021, 89022, 89023, 89024, 89025, 89026, 89027, 89028, 89029, 89030, 89031, 89032, 89033, 89034, 89035, 89036, 89037, 89038, 89039, 89040

Only the model 88030 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on color, appearance and packaging.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Tx:DC 6.0V by 1.5V x 4"AA" batteries
Operation Frequency	2405MHz-2475MHz
Modulation Type	GFSK
Channel Spacing	1MHz
Number of Channels	71
Antenna Type	Integral antenna
Antenna Gain	1dBi

Operation	Operation Frequency each of channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
1	2405.00	19	2423.00	37	2441.00	55	2459.00	
2	2406.00	20	2424.00	38	2442.00	56	2460.00	
3	2407.00	21	2425.00	39	2443.00	57	2461.00	
4	2408.00	22	2426.00	40	2444.00	58	2462.00	
5	2409.00	23	2427.00	41	2445.00	59	2463.00	
6	2410.00	24	2428.00	42	2446.00	60	2464.00	
7	2411.00	25	2429.00	43	2447.00	61	2465.00	
8	2412.00	26	2430.00	44	2448.00	62	2466.00	
9	2413.00	27	2431.00	45	2449.00	63	2467.00	
10	2414.00	28	2432.00	46	2450.00	64	2468.00	
11	2415.00	29	2433.00	47	2451.00	65	2469.00	
12	2416.00	30	2434.00	48	2452.00	66	2470.00	
13	2417.00	31	2435.00	49	2453.00	67	2471.00	
14	2418.00	32	2436.00	50	2454.00	68	2472.00	
15	2419.00	33	2437.00	51	2455.00	69	2473.00	
16	2420.00	34	2438.00	52	2456.00	70	2474.00	
17	2421.00	35	2439.00	53	2457.00	71	2475.00	
18	2422.00	36	2440.00	54	2458.00		_	

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)	2405MHz
The Middle channel(CH36)	2440MHz
The Highest channel(CH71)	2475MHz



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4.2 Description of Support Units

The EUT has been tested as an independent 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 Dadiated names	± 4.5dB (below 1GHz)
/	RF Radiated power	± 4.8dB (above 1GHz)
8	Dedicted Churique emission test	± 4.5dB (Below 1GHz)
0	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
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 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

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 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

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2017-09-27	2018-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2017-09-27	2018-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2017-09-27	2018-09-26

Field Strength of the Fundamental Signal (15.249(a))							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11		
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01		
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26		
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12		
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16		
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017-09-27	2018-09-26		
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-27		
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01		
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01		
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-26		
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21		
Band filter	N/A	N/A	SEM023-01	N/A	N/A		

Restricted Band Around Fundamental Frequency							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		

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Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017-09-27	2018-09-26
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-27
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21
Band filter	N/A	N/A	SEM023-01	N/A	N/A

Radiated Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017-09-27	2018-09-26
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-27
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21
Band filter	N/A	N/A	SEM023-01	N/A	N/A

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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	2017-09-29	2018-09-28						
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28						
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28						
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07						



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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

Limit:

15.203 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 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.

6.1.2 Conclusion

Standard 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 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 1dBi.

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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

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

Limit: N/A

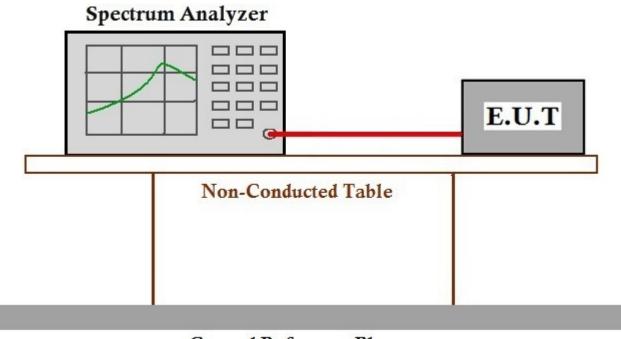
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Humidity: 46.3 % RH Atmospheric Pressure: 1000 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

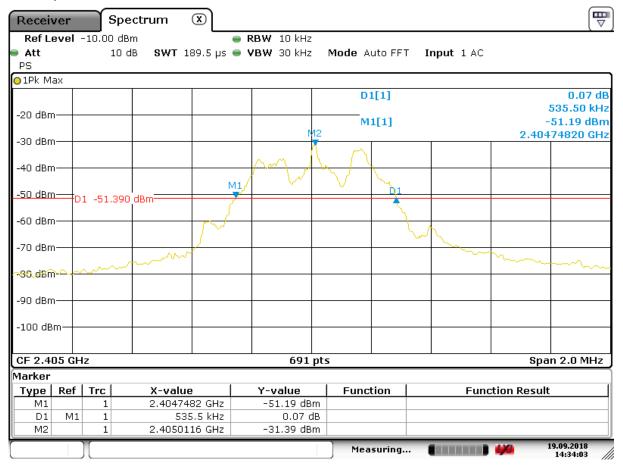
Test channel	20dB bandwidth (MHz)	Results
Lowest	0.5355	Pass
Middle	0.5499	Pass
Highest	0.7352	Pass



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Mode:a; the Lowest channel



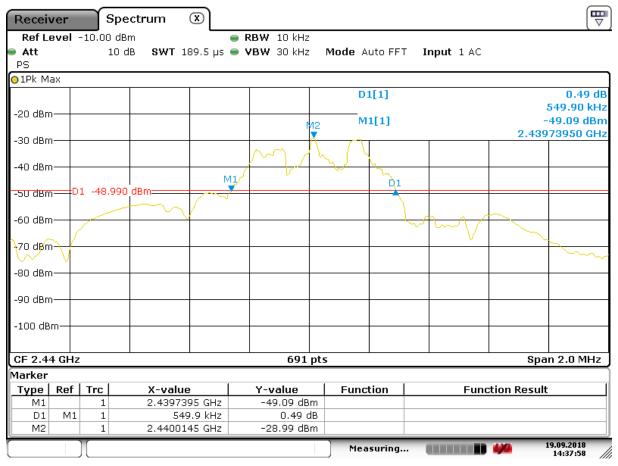
Date: 19.SEP.2018 14:34:03



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Mode:a; the Middle channel



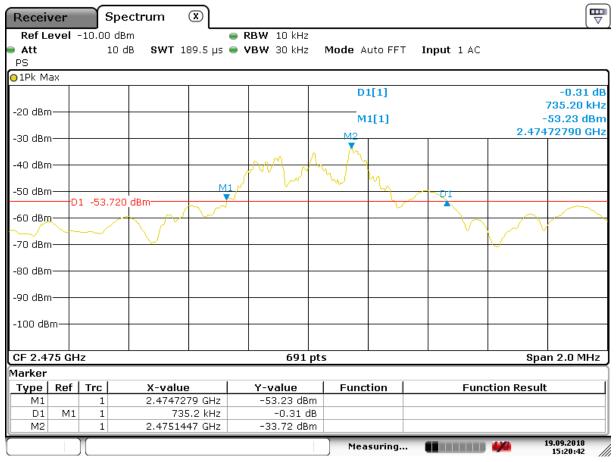
Date: 19.SEP.2018 14:37:58



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Mode:a; the Highest channel



Date: 19.SEP 2018 15:20:41



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

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)
Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
04000411- 0400 50411-	94.0	Average Value
2400MHz-2483.5MHz	114.0	Peak Value



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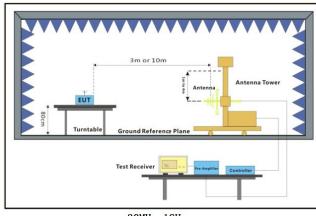
7.2.1 E.U.T. Operation

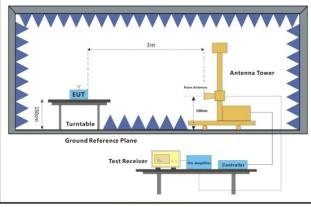
Operating Environment:

Temperature: Humidity: 55 % RH Atmospheric Pressure: 1000 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.2.3 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.

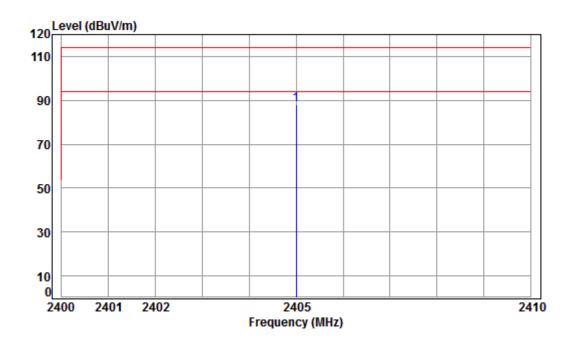
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07855CR

Mode : 2405 Field Strength

: 2.4G

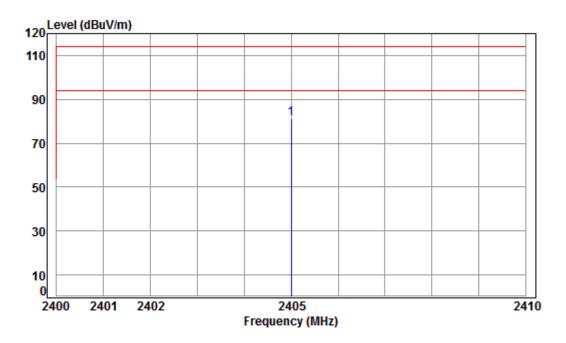
0ver Cable Ant Preamp Read Limit Freq Loss Factor Factor Level Level Line Limit Remark MHz dB/m dB dBuV dBuV/m dBuV/m dB dB 1 pp 2405.000 5.50 29.12 41.88 95.20 87.94 114.00 -26.06 peak



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Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL Job No : 07855CR

Mode : 2405 Field Strength

: 2.4G

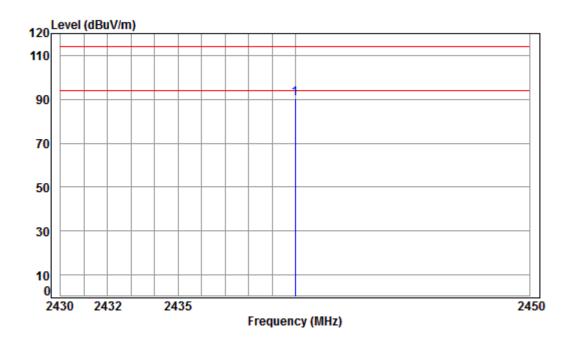
Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB/m dB dBuV dBuV/m dBuV/m dB dB 1 pp 2405.000 5.50 29.12 41.88 88.56 81.30 114.00 -32.70 peak



Report No.: SZEM180800785502

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Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL

Job No : 07855CR

Mode : 2440 Field Strength

: 2.4G

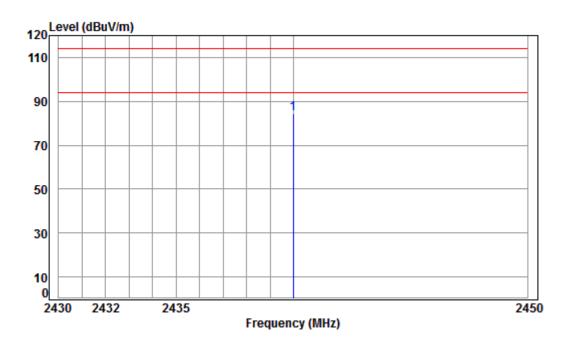
Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB/m dB dBuV dBuV/m dBuV/m dB dB 1 pp 2440.000 5.54 29.23 41.89 97.26 90.14 114.00 -23.86 Peak



Report No.: SZEM180800785502

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Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL

Job No : 07855CR

1 pp 2440.000

Mode : 2440 Field Strength

: 2.4G

Cable Ant Preamp Read Limit Over
Freq Loss Factor Factor Level Level Line Limit Remark

MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

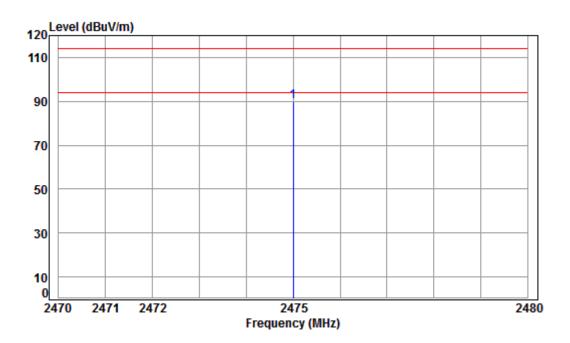
5.54 29.23 41.89 91.40 84.28 114.00 -29.72 Peak



Report No.: SZEM180800785502

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Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No : 07855CR

Mode : 2475 Field Strength

: 2.4G

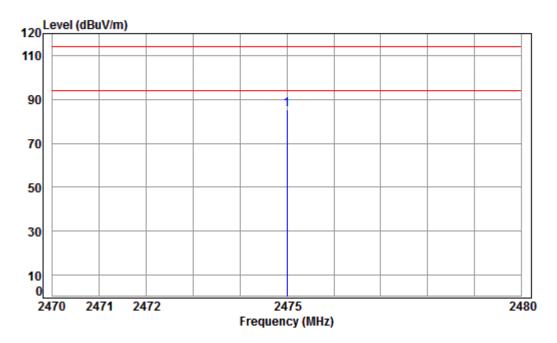
Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB/m dB dBuV dBuV/m dBuV/m dB dB 1 pp 2475.000 5.59 29.33 41.91 96.84 89.85 114.00 -24.15 peak



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Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL Job No : 07855CR

Mode : 2475 Field Strength

: 2.4G

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Freq Level Level dBuV dBuV/m dBuV/m MHz dB/m dB dB dΒ 1 pp 2475.000 5.59 29.33 41.91 92.09 85.10 114.00 -28.90 Peak

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)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 above measurement data were shown in the report.



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7.3 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

Limit:

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 1GHz	74.0	Peak Value

Emission 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.



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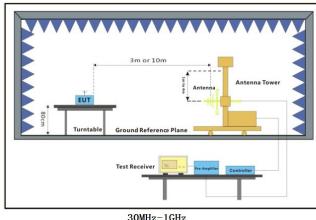
7.3.1 E.U.T. Operation

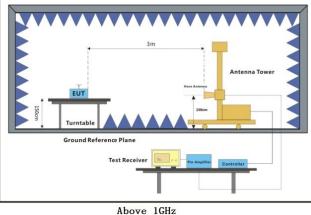
Operating Environment:

Humidity: 55.9 % RH Temperature: 23.5 °C Atmospheric Pressure: 1000 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram





7.3.3 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.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



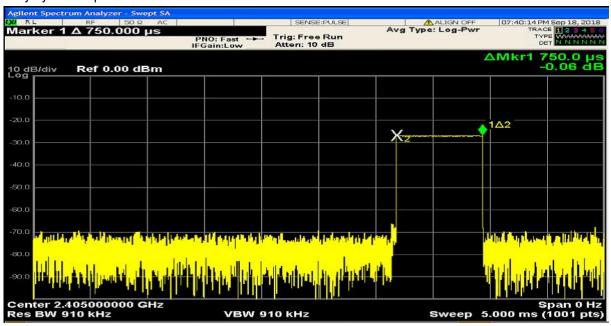
Report No.: SZEM180800785502

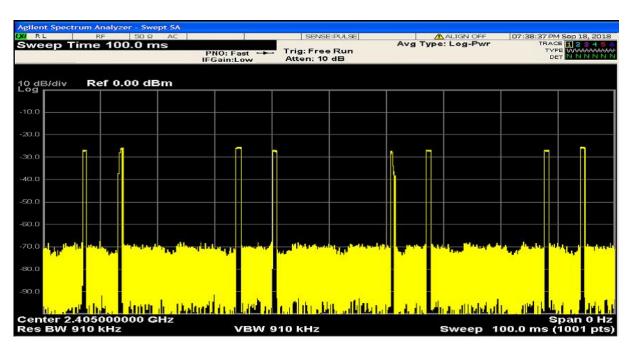
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Average value:

	Average value=Peak value + PDCF
Calculate Formula:	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
	Ton time =6ms
Test data:	T period =100ms
	PDCF value= -24.44dB

Duty cycle test plots:





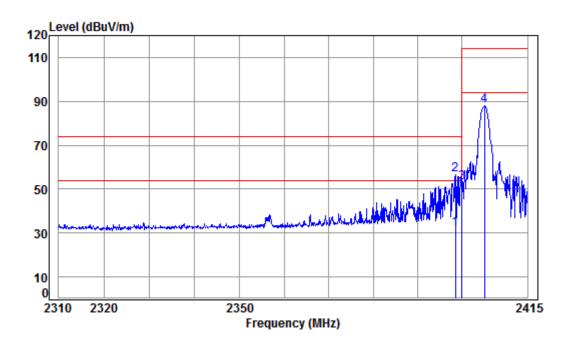
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Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07855CR

Mode : 2405 Band edge

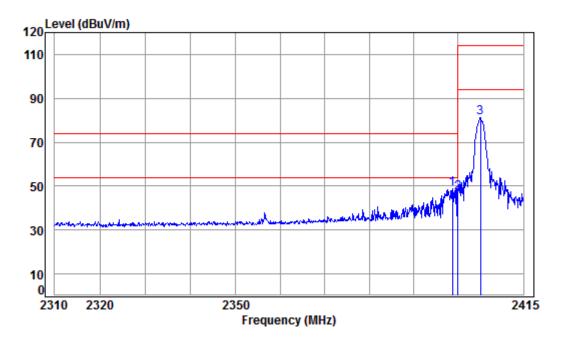
Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 av 2398.524 2 pp 2398.524 3 2400.000 4 2405.144	5.49 5.49	29.10 29.11	41.88 41.88	63.86 60.17	56.57 52.89	74.00 74.00	-17.43 -21.11	peak peak



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Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL Job No : 07855CR

Mode : 2405 Band edge

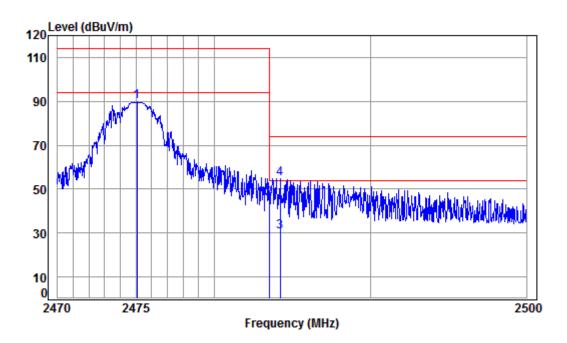
		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	2398.844	5.49	29.10	41.88	56.07	48.78	74.00	-25.22	peak
2		2400.000	5.49	29.11	41.88	54.10	46.82	74.00	-27.18	peak
3		2405.144	5.50	29.12	41.88	88.56	81.30	114.00	-32.70	peak



Report No.: SZEM180800785502

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Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No : 07855CR

Mode : 2475 Band edge

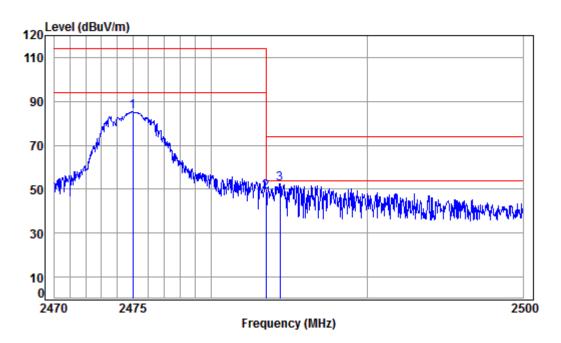
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB	
	2475.045 2483.500								•
3 av	2484.205 2484.205	5.60	29.35	41.91	37.38	30.42	54.00	-23.58	Average



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Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL Job No : 07855CR

Mode : 2475 Band edge

: 2.4G

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2474.985	5.59	29.33	41.91	92.09	85.10	114.00	-28.90	peak
2	2483.500	5.60	29.35	41.91	55.90	48.94	74.00	-25.06	peak
3 pp	2484.385	5.60	29.36	41.91	59.49	52.54	74.00	-21.46	peak

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) 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 above measurement data were shown in the report.



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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:

Fraguency/MUz)	Field strength	Limit	Detector	Measurement Distance
Frequency(MHz)	(microvolts/meter)	(dBuV/m)	Detector	(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



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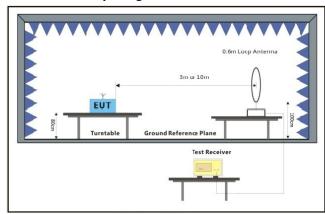
7.4.1 E.U.T. Operation

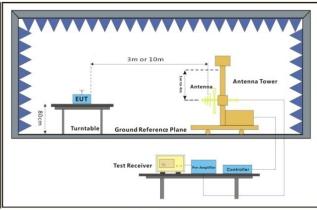
Operating Environment:

Temperature: 24.4 °C Humidity: 55 % RH Atmospheric Pressure: 1000 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

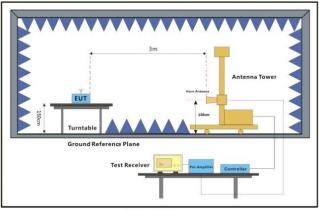
7.4.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz

7.4.3 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.

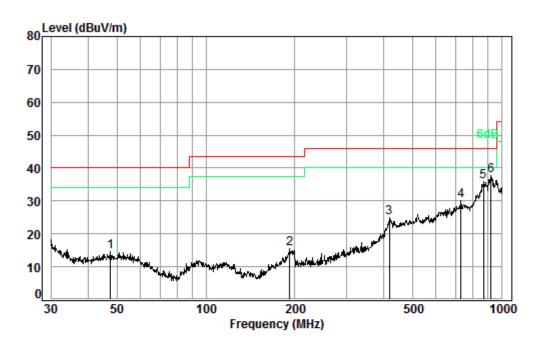


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30MHz~1GHz

Mode: a; Polarization: Horizontal



Condition: 3m HORIZONTAL

Job No. : 07855CR

Test Mode: a

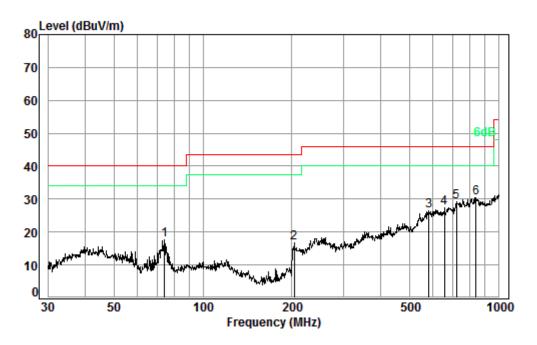
	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	47.66	0.76	14.91	27.61	26.42	14.48	40.00	-25.52
2	192.42	1.39	16.28	27.53	25.36	15.50	43.50	-28.00
3	417.64	2.28	22.83	27.76	27.64	24.99	46.00	-21.01
4	726.81	2.99	28.07	27.51	26.68	30.23	46.00	-15.77
5	866.09	3.47	29.38	27.19	30.20	35.86	46.00	-10.14
6 pp	919.29	3.62	29.90	27.02	31.27	37.77	46.00	-8.23



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Mode: c; Polarization: Vertical



Condition: 3m VERTICAL Job No. : 07855CR

Test Mode: a

		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
1	74.14	0.93	12.46	27.52	31.70	17.57	40.00	-22.43
2	203.52	1.42	16.63	27.53	26.32	16.84	43.50	-26.66
3	580.70	2.68	26.24	27.73	25.42	26.61	46.00	-19.39
4	656.53	2.82	27.36	27.61	24.81	27.38	46.00	-18.62
5	719.20	2.96	28.02	27.52	25.62	29.08	46.00	-16.92
6 pp	836.24	3.35	28.99	27.29	25.42	30.47	46.00	-15.53

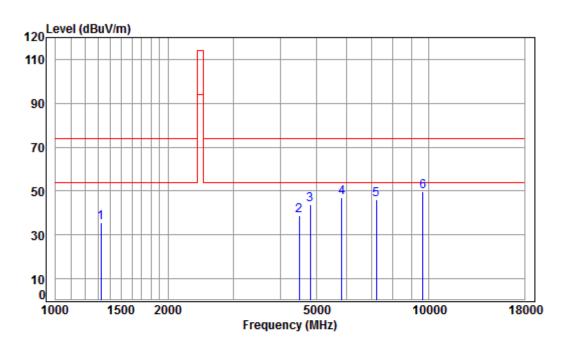


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Above 1 GHz

Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07855CR

Mode : 2405 TX RSE

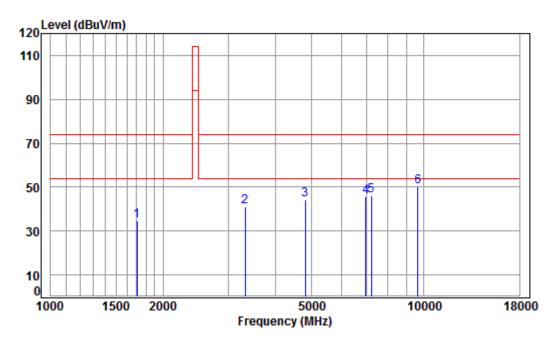
	. 2.7	•							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1323.614	4.88	25.06	41.28	47.02	35.68	74.00	-38.32	peak
2	4495.125	7.55	33.60	42.42	39.86	38.59	74.00	-35.41	peak
3	4810.000	7.90	34.17	42.47	44.07	43.67	74.00	-30.33	peak
4	5847.517	10.06	34.61	41.73	44.20	47.14	74.00	-26.86	peak
5	7215.000	10.07	36.41	40.71	40.16	45.93	74.00	-28.07	peak
6	pp 9620,000	10.75	37.52	37.72	39.33	49.88	74.00	-24.12	peak



Report No.: SZEM180800785502

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Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:Low



Condition: 3m VERTICAL Job No : 07855CR

Mode : 2405 TX RSE

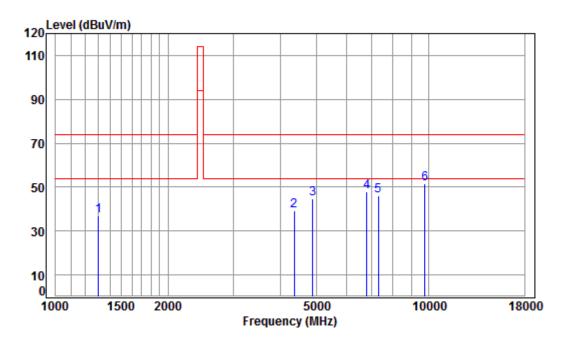
					Preamp					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1702.042	5.23	26.68	41.53	44.40	34.78	74.00	-39.22	peak
2		3318.471	6.29	31.89	42.18	45.02	41.02	74.00	-32.98	peak
3		4810.000	7.90	34.17	42.47	44.52	44.12	74.00	-29.88	peak
4		6974.982	10.20	36.43	40.87	40.05	45.81	74.00	-28.19	peak
5		7215.000	10.07	36.41	40.71	40.53	46.30	74.00	-27.70	peak
6	pp	9620.000	10.75	37.52	37.72	39.43	49.98	74.00	-24.02	peak



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Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:middle



Condition: 3m HORIZONTAL

Job No : 07855CR

Mode : 2440 TX RSE

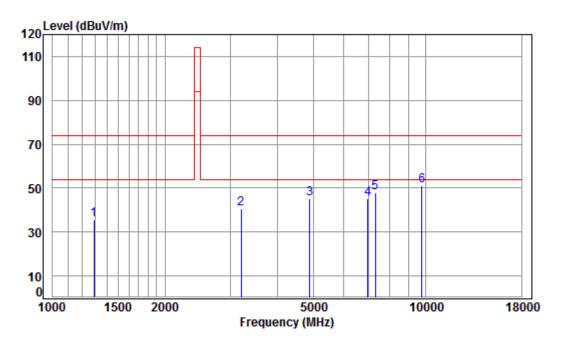
	. 2.4	u								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1304.623	4.82	24.97	41.27	48.21	36.73	74.00	-37.27	peak	
2	4354.454	7.40	33.60	42.39	40.71	39.32	74.00	-34.68	peak	
3	4880.000	7.97	34.29	42.48	45.15	44.93	74.00	-29.07	peak	
4	6815.551	10.64	36.00	40.98	42.09	47.75	74.00	-26.25	peak	
5	7320.000	10.05	36.37	40.63	40.25	46.04	74.00	-27.96	peak	
6 pr	9760.000	10.82	37.55	37.53	40.57	51.41	74.00	-22.59	peak	



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Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:middle



Condition: 3m VERTICAL Job No : 07855CR

Mode : 2440 TX RSE

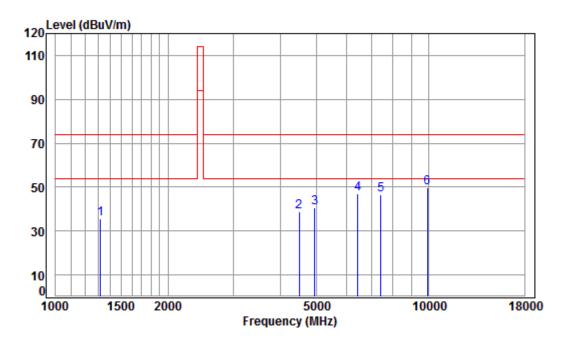
					Preamp					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1289.627	4.76	24.91	41.25	47.13	35.55	74.00	-38.45	peak
2		3196.094	6.18	31.67	42.15	44.85	40.55	74.00	-33.45	peak
3		4880.000	7.97	34.29	42.48	45.24	45.02	74.00	-28.98	peak
4		6974.982	10.20	36.43	40.87	39.54	45.30	74.00	-28.70	peak
5		7320.000	10.05	36.37	40.63	41.93	47.72	74.00	-26.28	peak
6	pp	9760.000	10.82	37.55	37.53	40.31	51.15	74.00	-22.85	peak



Report No.: SZEM180800785502

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Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:High



Condition: 3m HORIZONTAL

Job No : 07855CR

Mode : 2475 TX RSE

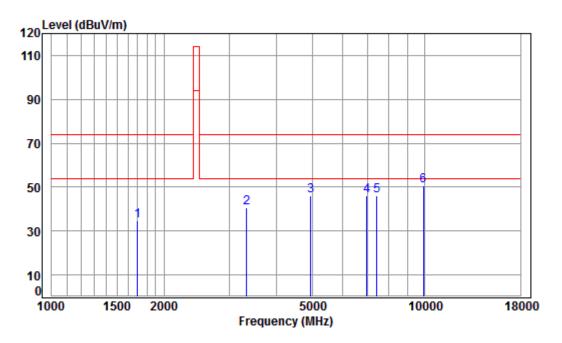
		. 2.4	•							
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	l	1319.794	4.87	25.04	41.28	46.75	35.38	74.00	-38.62	peak
2	2	4495.125	7.55	33.60	42.42	40.19	38.92	74.00	-35.08	peak
3	3	4950.000	8.04	34.41	42.49	40.46	40.42	74.00	-33.58	peak
4	1	6451.353	11.45	35.06	41.25	41.65	46.91	74.00	-27.09	peak
	5	7425.000	10.02	36.33	40.57	40.94	46.72	74.00	-27.28	peak
6	5 pr	9900.000	10.89	37.58	37.34	38.53	49.66	74.00	-24.34	neak



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Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:High



Condition: 3m VERTICAL Job No : 07855CR

Mode : 2475 TX RSE

		. 2.4	•							
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1697.129	5.23	26.66	41.53	44.41	34.77	74.00	-39.23	peak
2		3328.077	6.30	31.91	42.18	44.37	40.40	74.00	-33.60	peak
3		4950.000	8.04	34.41	42.49	46.00	45.96	74.00	-28.04	peak
4		6974.982	10.20	36.43	40.87	40.14	45.90	74.00	-28.10	peak
5		7425.000	10.02	36.33	40.57	40.33	46.11	74.00	-27.89	peak
6	nn	9900.000	10.89	37.58	37.34	39.37	50.50	74.00	-23.50	peak



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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 18GHz 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 above measurement data were shown in the report.



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8 Photographs

8.1 Test Setup

Please refer to setup photos.

8.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.

- End of the Report -