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Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM180400336902

Fax: +86 (0) 755 2671 0594 Page: 1 of 43

TEST REPORT

Application No.: SZEM1804003369CR (SGS SZ No.: T51810220180EM)

Applicant: DOUBLEEAGLE INDUSTRY (CHINA) LIMITED

Address of Applicant: Xingda Industrial Park, Chenghai District, Shantou City, Guangdong

Province, China

Manufacturer/ Supplier: DOUBLEEAGLE INDUSTRY (CHINA) LIMITED

Equipment Under Test (EUT):

EUT Name: Radio Control Toys

Model No.: Please refer to section 2 &

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

actually tested and which were electrically identical.

Request Age Grading: 3+
Country of Origin: China

FCC ID: 2AAFASY-E527-003

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

Date of Receipt: 2018-05-10

Date of Test: 2018-05-16 to 2018-05-22

Date of Issue: 2018-05-24

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 Remark						
01		2018-05-24		Original			

Authorized for issue by:		
	Moon. Zhang	
	Moon Zhang /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement						
Item Standard Method Requirement Resul						
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.: E527-003, E586-003, E587-003, E588-003, E589-003, E561-003A, E561-003B, E608-003, E612-003, E649-003, E712-003, E900-003, E901-003, E707-003, E708-003, E709-003, E717-003, E718-003, E719-003, E626-003, E635-003, E636-003, E670-003, E671-003, E672-003, E674-003, E668-003, E669-003, E675-003, E676-003, E677-003, E678-003, E679-003, E680-003, E311-003, E312-003, E313-003, E314-003, E315-003, E316-003, E317-003, E319-003, E321-003, E322-003, E324-003, E716-003, E325-003, E326-003, E335-003, E336-003, E337-003, E338-003, E323-003, E327-003, E328-003, E329-003, E330-003, E331-003, E332-003, E333-003, E334-003, E101-003, E102-003, E103-003, E105-003, E106-003, E107-003, E108-003

Only the model E527-003 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, only different on decoration, colour and model name.



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4 General Information

4.1 Details of E.U.T.

Power supply:	Remote: DC 3V by 2x1.5V "AA" batteries	
Cable:	USB charging line: 60cm, unshielded	
Internal source:	12MHz	
Antenna Gain	0dBi	
Antenna Type	Wire antenna	
Channel Spacing	1MHz	
Modulation Type	GFSK	
Number of Channels	71	
Operation Frequency	2405-2475MHz	

4.2 4.2 Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0		27	2431	54	2458
1	2405	28	2432	55	2459
2	2406	29	2433	56	2460
3	2407	30	2434	57	2461
4	2408	31	2435	58	2462
5	2409	32	2436	59	2463
6	2410	33	2437	60	2464
7	2411	34	2438	61	2465
8	2412	35	2439	62	2466
9	2413	36	2440	63	2467
10	2414	37	2441	64	2468
11	2415	38	2442	65	2469
12	2416	39	2443	66	2470
13	2417	40	2444	67	2471
14	2418	41	2445	68	2472
15	2419	42	2446	69	2473
16	2420	43	2447	70	2474
17	2421	44	2448	71	2475
18	2422	45	2449		
19	2423	46	2450		
20	2424	47	2451		
21	2425	48	2452		
22	2426	49	2453		
23	2427	50	2454		
24	2428	51	2455		
25	2429	52	2456		
26	2430	53	2457		

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Selected Test Channel

Channel	Frequency
The lowest channel	2405MHz
The middle channel	2440MHz
The highest channel	2475MHz

4.3 Description of Support Units

The EUT has been tested as an independent unit.

4.4 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 newer	4.5dB (below 1GHz)
7	RF Radiated power	4.8dB (above 1GHz)
8	Dedicted Courieus emission tost	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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4.5 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.

4.6 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 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 for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.7 Deviation from Standards

None

4.8 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	2017-07-13	2018-07-12	
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	2017-07-13	2018-07-12	
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	al Cable SGS		SEM026-01	2017-07-13	2018-07-12
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)	` Schwarzheck		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

RE in Chamber									
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date				
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04				
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2017-09-27	2018-09-26				
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26				
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2018-04-02	2019-04-01				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM025-01	2017-07-13	2018-07-12				

Radiated Emissions (30MHz-1GHz)									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A N/A 2017-07-13 2018-07-12					
Coaxial Cable	SGS	N/A	SEM025-01	2017-07-13	2018-07-12				
EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2017-09-27	2018-09-26				
BiConiLog Antenna (26- 3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26				
Pre-amplifier (0.1- 1300MHz)	Agilent Technologies	8447D	SEM005-01	2018-04-02	2019-04-01				

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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	2017-07-13	2018-07-12
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

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

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

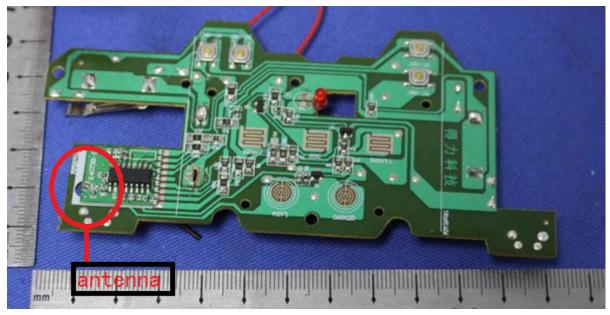
Standard Requirement:

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:

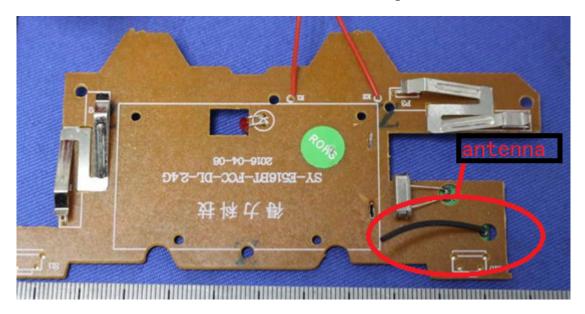
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.





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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

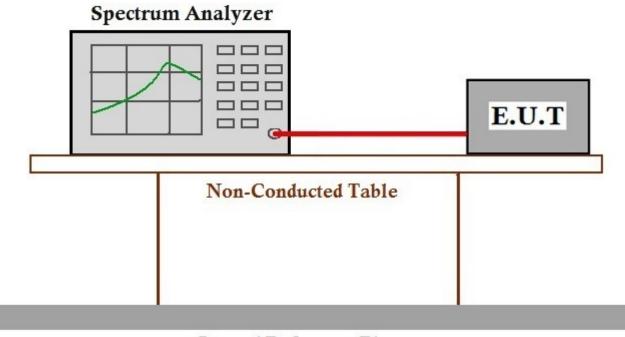
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 44.9 % RH Atmospheric Pressure: 1015 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	1.77	Pass
Middle	1.46	Pass
Highest	1.93	Pass

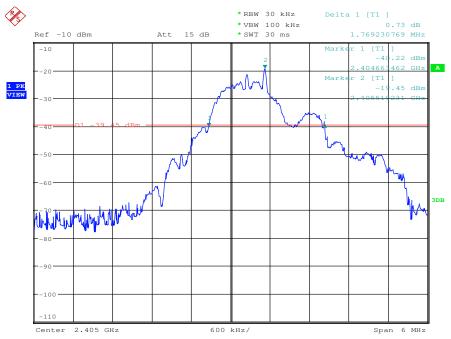


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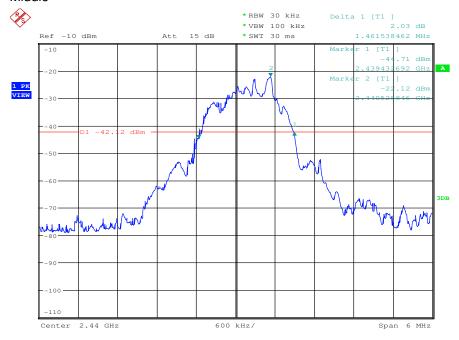
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Test plot as follows:

Lowest



Middle

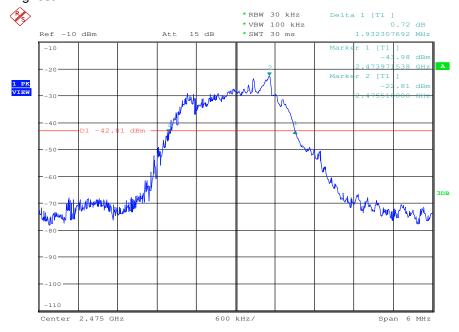




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Highest





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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		
2400MU- 2402 5MU-	94.0	Average Value		
2400MHz-2483.5MHz	114.0	Peak Value		

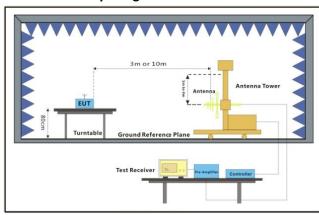
7.2.1 E.U.T. Operation

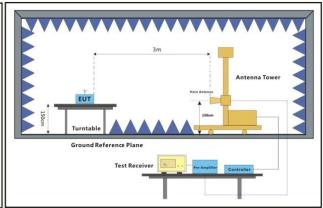
Operating Environment:

Temperature: 22.8 °C Humidity: 60.8 % RH Atmospheric Pressure: 1015 mbar

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

7.2.2 Test Setup Diagram





30MHz-1GHz Above 1GHz



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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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Average value:

	Average value=Peak value + PDCF
Calculate Formula:	a: PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
	Ton time =2.520ms
Test data:	T period =22.14ms
	PDCF value= -18.88dB

Duty cycle test plots:

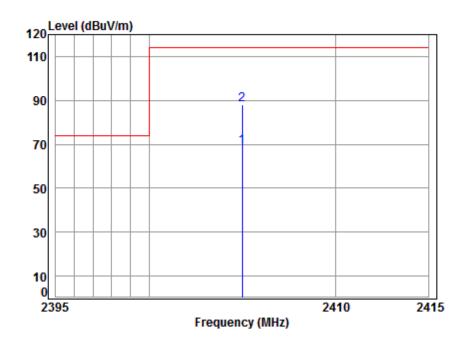




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Mode:a; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03369CR

: 2405 Field strength Mode

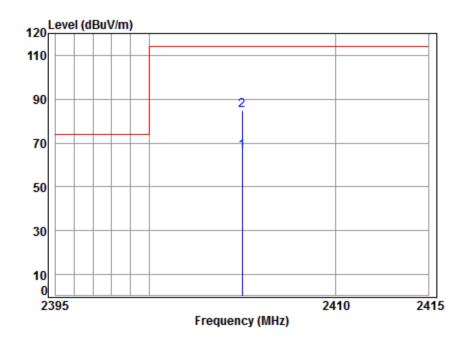
oue	Freq	Cable	Ant	Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2405.000 2405.000								_



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



Condition: 3m VERTICAL Job No : 03369CR

2 pk 2405.000

Mode : 2405 Field strength

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 dB dBuV dBuV/m dBuV/m dB

1 pp 2405.000 5.49 29.12 37.65 69.23 66.19 94.00 -27.81 Average

5.49 29.12 37.65 88.11 85.07 114.00 -28.93 peak

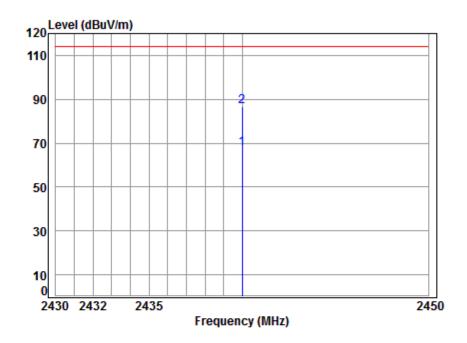
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-



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



Condition: 3m HORIZONTAL

Job No : 03369CR

1

Mode : 2440 Field strength

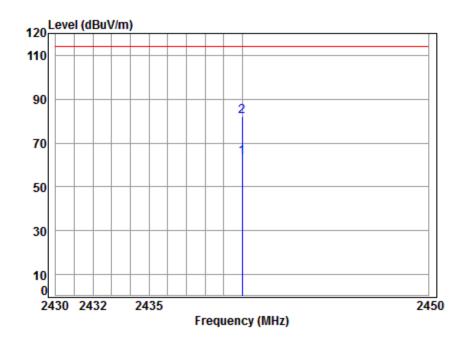
	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
• •	2440.000 2440.000								_



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



Condition: 3m VERTICAL Job No : 03369CR

Mode : 2440 Field strength

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

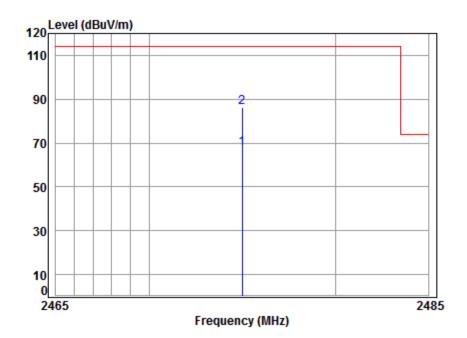
1 pp 2440.000 5.54 29.23 37.65 66.19 63.31 94.00 -30.69 Average 2 pk 2440.000 5.54 29.23 37.65 85.06 82.18 114.00 -31.82 peak



Report No.: SZEM180400336902

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



Condition: 3m HORIZONTAL

Job No : 03369CR

Mode : 2475 Field strength

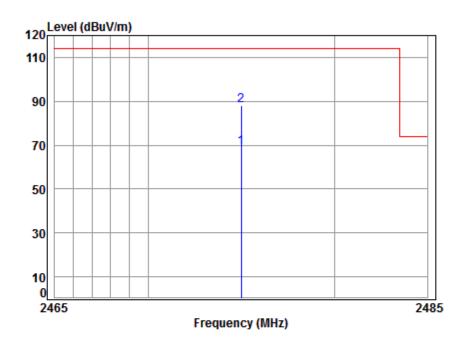
	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2475.000 2475.000								_



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



Condition: 3m VERTICAL

Job No : 03369CR

1

Mode : 2475 Field strength

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
 2475.000								_



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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.

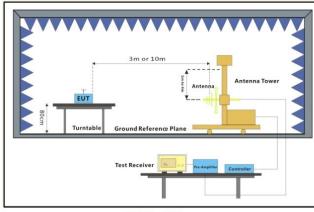
7.3.1 E.U.T. Operation

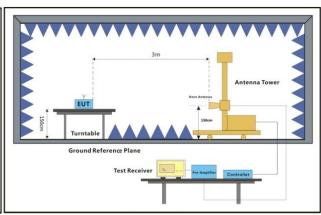
Operating Environment:

Temperature: 22.8 °C Humidity: 60.8 % RH Atmospheric Pressure: 1015 mbar

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

7.3.2 Test Setup Diagram





30MHz-1GHz Above 1GHz



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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.

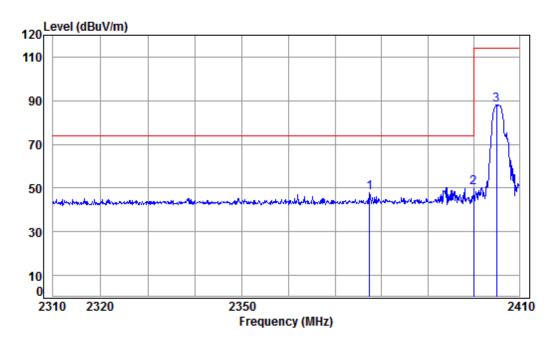
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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



Condition: 3m HORIZONTAL

Job No : 03369CR

Mode : 2405 Band edge

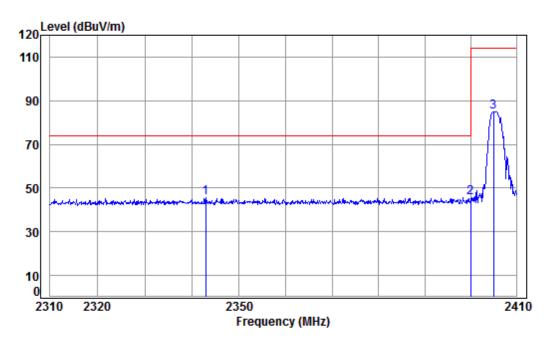
oue	. 240	Danu	euge							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2377.437	5.46	29.04	37.66	51.14	47.98	74.00	-26.02	Peak	
2 pp	2400.000	5.48	29.09	37.66	53.25	50.16	74.00	-23.84	peak	
3	2405.000	5.50	29.12	37.65	90.97	87.94	114.00	-26.06	peak	



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



Condition: 3m VERTICAL Job No : 03369CR

Mode : 2405 Band edge

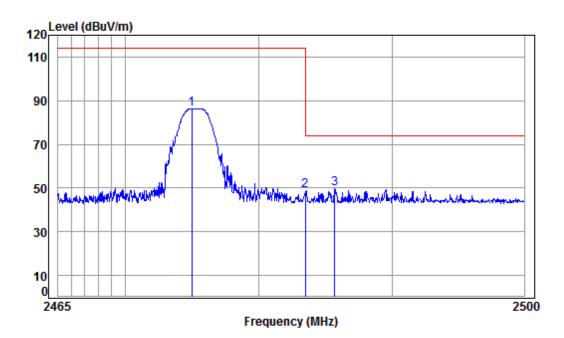
Jue		. 240.	Danu	euge							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	pp	2342.930	5.41	28.93	37.66	49.14	45.82	74.00	-28.18	Peak	
2		2400.000	5.49	29.10	37.66	48.51	45.44	74.00	-28.56	peak	
3		2405.000	5.49	29.12	37.65	88.11	85.07	114.00	-28.93	peak	



Report No.: SZEM180400336902

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



Condition: 3m HORIZONTAL

Job No : 03369CR

Mode : 2475 Band edge

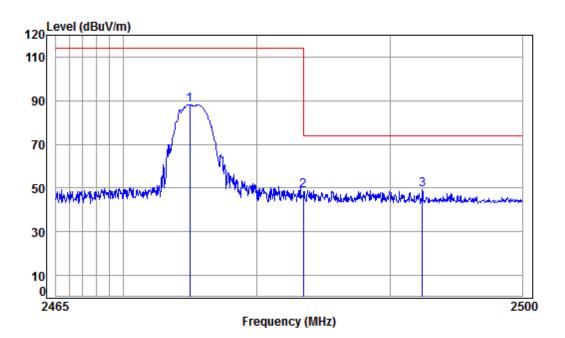
oue	. 247	Danu	euge							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2475.000	5.59	29.33	37.65	89.14	86.41	114.00	-27.59	peak	
2	2483.500								•	
3	2485.695								•	



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



Condition: 3m VERTICAL Job No : 03369CR

Mode : 2475 Band edge

loue	. 24/	o banu	euge							
		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	2475.000	5.59	29.33	37.65	90.73	88.00	114.00	-26.00	peak	
2	2483.500	5.60	29.35	37.65	51.43	48.73	74.00	-25.27	peak	
3 p	p 2492.469	5.61	29.38	37.65	52.11	49.45	74.00	-24.55	Peak	



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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 (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (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: 22.8 °C Humidity: 60.9 % RH Atmospheric Pressure: 1015 mbar

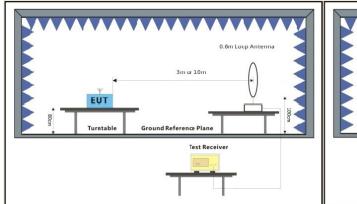
Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

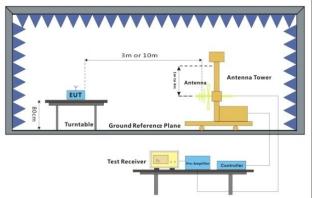


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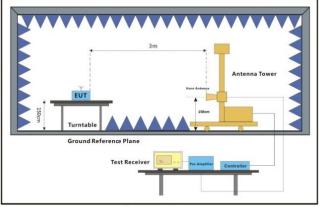
7.4.2 Test Setup Diagram





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.



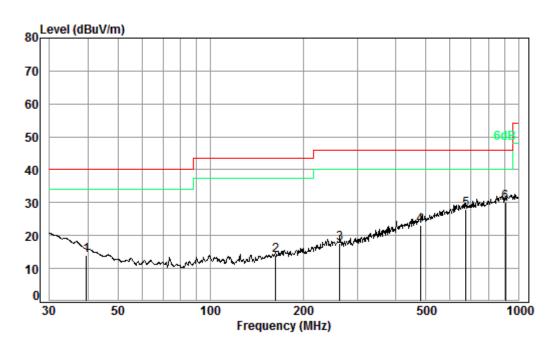
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Radiated Emission below 1GHz

30MHz~1GHz (QP)

Mode:a; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 03369CR

: a

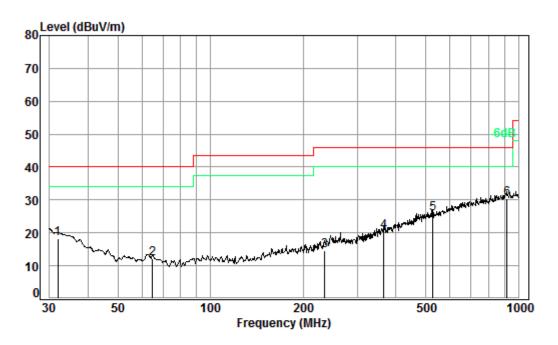
	_			Preamp				0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	39.58	0.60	17.69	27.63	23.24	13.90	40.00	-26.10
2	162.61	1.34	15.55	27.52	24.51	13.88	43.50	-29.62
3	262.90	1.74	19.06	27.54	24.43	17.69	46.00	-28.31
4	480.53	2.53	24.21	27.85	24.37	23.26	46.00	-22.74
5	675.21	2.85	27.60	27.59	25.02	27.88	46.00	-18.12
6 pp	906.48	3.61	29.83	27.06	23.65	30.03	46.00	-15.97



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Mode:a; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 03369CR

: a

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.95	0.60	21.40	27.66	23.80	18.14	40.00	-21.86
2	64.89	0.80	13.00	27.54	25.97	12.23	40.00	-27.77
3	234.99	1.60	18.41	27.53	22.21	14.69	46.00	-31.31
4	365.54	2.10	21.52	27.67	24.39	20.34	46.00	-25.66
5	528.25	2.63	25.20	27.83	25.98	25.98	46.00	-20.02
6 pp	919.29	3.62	29.90	27.02	23.98	30.48	46.00	-15.52

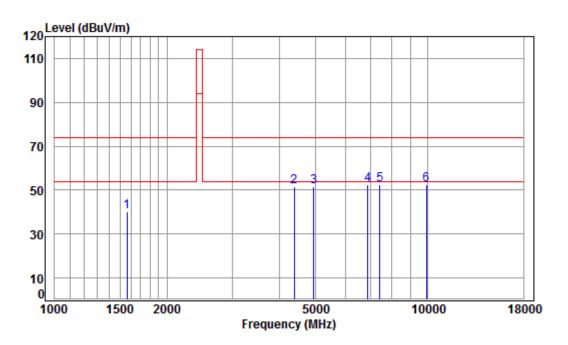


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Transmitter emission above 1GHz

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



Condition: 3m VERTICAL Job No : 03369CR

Mode : 2475 TX RSE

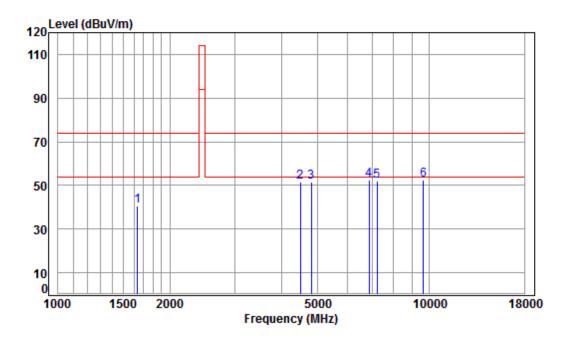
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz		dR/m	——dB		dRuV/m	dRuV/m		
	PILIZ	ub	ub/iii	ub	ubuv	ubuv/III	ubuv/III	ub	
1	1565.191	5.39	26.10	38.04	46.80	40.25	74.00	-33.75	peak
2	4379.699	7.43	33.60	38.20	48.61	51.44	74.00	-22.56	peak
3	4950.000	8.04	34.41	38.48	47.68	51.65	74.00	-22.35	peak
4	6894.806	10.42	36.21	37.40	43.13	52.36	74.00	-21.64	peak
5 pp	7425.000	10.02	36.33	36.90	43.17	52.62	74.00	-21.38	peak
6	9900.000	10.89	37.58	34.95	38.86	52.38	74.00	-21.62	peak



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



Condition: 3m HORIZONTAL

Job No : 03369CR

Mode : 2405 TX RSE

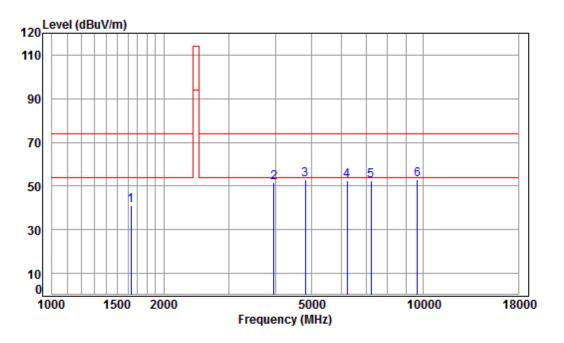
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.274	5.30	26.42	38.03	46.69	40.38	74.00	-33.62	peak
2	4495.125	7.55	33.60	38.26	48.44	51.33	74.00	-22.67	peak
3	4810.000	7.90	34.17	38.41	47.84	51.50	74.00	-22.50	peak
4 pp	6874.906	10.47	36.16	37.42	43.25	52.46	74.00	-21.54	peak
5	7215.000	10.07	36.41	37.10	42.57	51.95	74.00	-22.05	peak
6	9620.000	10.75	37.52	35.08	39.05	52.24	74.00	-21.76	peak



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



Condition: 3m VERTICAL Job No : 03369CR

Mode : 2405 TX RSE

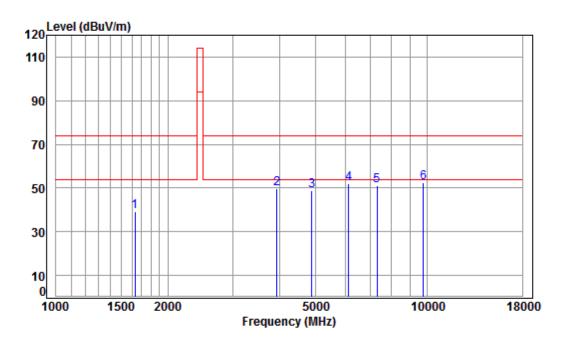
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1620 925	E 21	26 20	20 02	47 DE	41 01	74 00	22.00	noole
1		1629.825	5.51	20.30	38.03	47.33	41.01	74.00	-32.99	peak
2		3958.309	6.94	33.49	38.00	49.32	51.75	74.00	-22.25	peak
3		4810.000	7.90	34.17	38.41	49.16	52.82	74.00	-21.18	peak
4		6231.427	11.03	34.89	38.05	44.38	52.25	74.00	-21.75	peak
5		7215.000	10.07	36.41	37.10	42.91	52.29	74.00	-21.71	peak
6	pp	9620.000	10.75	37.52	35.08	39.82	53.01	74.00	-20.99	peak



Report No.: SZEM180400336902

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



Condition: 3m HORIZONTAL

Job No : 03369CR

Mode : 2440 TX RSE

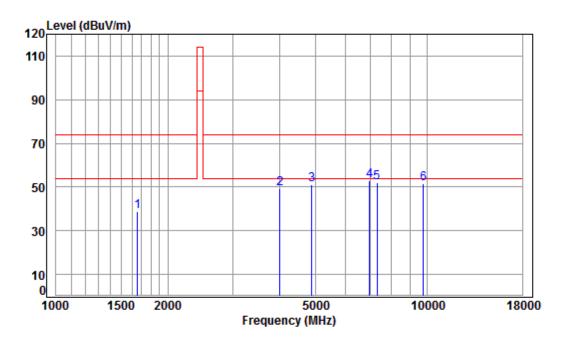
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1634.543	5.31	26.40	38.03	45.59	39.27	74.00	-34.73	peak
2	3935.493	6.92	33.43	37.99	47.44	49.80	74.00	-24.20	peak
3	4880.000	7.97	34.29	38.45	45.03	48.84	74.00	-25.16	peak
4	6142.019	10.85	34.82	38.15	44.44	51.96	74.00	-22.04	peak
5	7320.000	10.05	36.37	37.00	41.71	51.13	74.00	-22.87	peak
6 pp	9760.000	10.82	37.55	35.02	39.26	52.61	74.00	-21.39	peak



Report No.: SZEM180400336902

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



Condition: 3m VERTICAL Job No : 03369CR

Mode : 2440 TX RSE

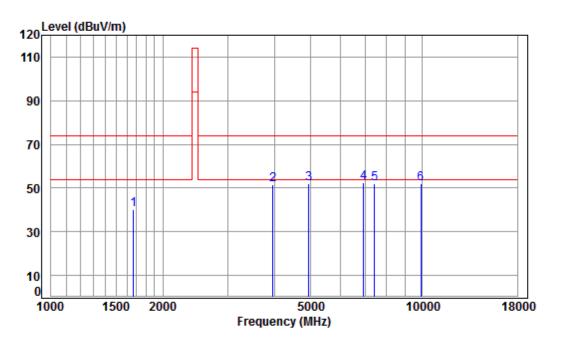
				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						JD: 3//	JD: 3//		
	MHz	ав	aB/m	dB	abuv	abuv/m	abuv/m	dB	
1	1658.337	5.28	26.50	38.03	45.24	38.99	74.00	-35.01	peak
2	4004.339	6.99	33.60	38.00	46.66	49.25	74.00	-24.75	peak
3	4880.000	7.97	34.29	38.45	47.42	51.23	74.00	-22.77	peak
4 pp	6974.982	10.20	36.43	37.32	43.65	52.96	74.00	-21.04	peak
5	7320.000	10.05	36.37	37.00	42.46	51.88	74.00	-22.12	peak
6	9760.000	10.82	37.55	35.02	38.19	51.54	74.00	-22.46	peak



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



Condition: 3m HORIZONTAL

Job No : 03369CR

Mode : 2475 TX RSE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.951	5.27	26.54	38.03	46.47	40.25	74.00	-33.75	peak
2	3958.309	6.94	33.49	38.00	49.04	51.47	74.00	-22.53	peak
3	4950.000	8.04	34.41	38.48	48.15	52.12	74.00	-21.88	peak
4 pp	6934.778	10.31	36.32	37.36	43.33	52.60	74.00	-21.40	peak
5	7425.000	10.02	36.33	36.90	42.56	52.01	74.00	-21.99	peak
6	9900.000	10.89	37.58	34.95	38.41	51.93	74.00	-22.07	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.

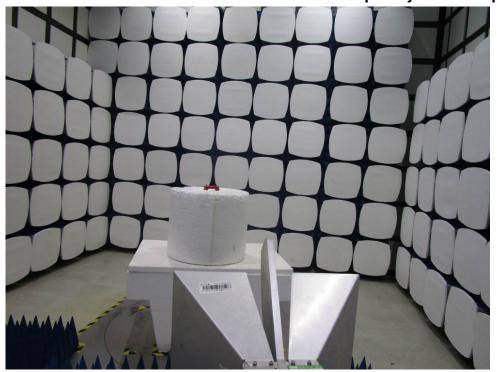


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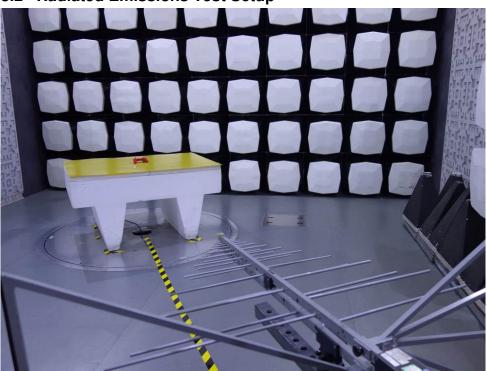
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8 Photographs

8.1 Restricted Band Around Fundamental Frequency Test Setup



8.2 Radiated Emissions Test Setup

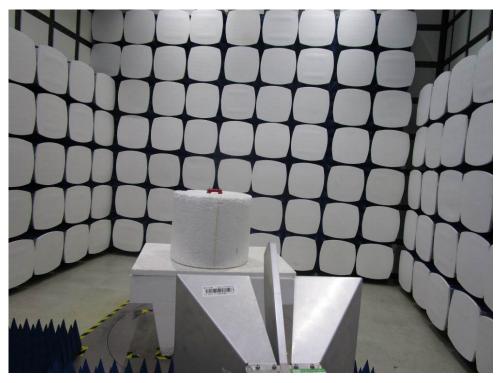


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8.3 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos.

- End of the Report -