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Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 Report No.: SZEM170800816901

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TEST REPORT

Application No.: SZEM1708008169CR

Applicant: Steren Electronics International, LLC

Address of Applicant: 6920 Carroll Road, Suite 100 San Diego CA 92121

Manufacturer: WinTide Brand Limited

Address of Manufacturer: NO.18 Lufeng Road, Gangkou, Chenghai District, Shantou, China

Factory: WinTide Brand Limited

Address of Factory: NO.18 Lufeng Road, Gangkou, Chenghai District, Shantou, China

Equipment Under Test (EUT):

EUT Name: QUADCOPTER 2.4GHz

Model No.: BL-775-103

FCC ID: 2ABDSBL-775-103

Trade mark: STEREN

Standards: 47 CFR Part 15, Subpart C 15.249

Date of Receipt: 2017-08-02

Date of Test: 2017-08-07 to 2017-08-09

Date of Issue: 2017-08-15

Test Result : Pass*

SERVICES CO.

Jack Zhang EMC Laboratory Manager

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

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



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	Revision Record						
Version	Version Chapter Date Modifier Ren						
01		2017-08-15		Original			

Authorized for issue by:		
	Brix Chen	
	Bill Chen /Project Engineer	
	Eric Fu	
	Eric Fu /Reviewer	



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2 Test Summary

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

Radio Spectrum Mat	ter 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



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4 General Information

4.1 Details of E.U.T.

Frequency Range: 2420MHz-2475MHz

Modulation Type: GFSK
Number of Channels: 56
Antenna Type: Rod
Antenna Gain: 0dBi

Power supply: TX: DC 6V(4 x1.5V "AA")

Operation Fre	Operation Frequency each of channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency		
1CH	2420 MHz	20CH	2439 MHz	39CH	2458 MHz		
2CH	2421 MHz	21CH	2440 MHz	40CH	2459 MHz		
3CH	2422 MHz	22CH	2441 MHz	41CH	2460 MHz		
4CH	2423 MHz	23CH	2442 MHz	42CH	2461 MHz		
5CH	2424 MHz	24CH	2443 MHz	43CH	2462 MHz		
6CH	2425 MHz	25CH	2444 MHz	44CH	2463 MHz		
7CH	2426 MHz	26CH	2445 MHz	45CH	2464 MHz		
8CH	2427 MHz	27CH	2446 MHz	46CH	2465 MHz		
9CH	2428 MHz	28CH	2447 MHz	47CH	2466 MHz		
10CH	2429 MHz	29CH	2448 MHz	48CH	2467 MHz		
11CH	2430 MHz	30CH	2449 MHz	49CH	2468 MHz		
12CH	2431 MHz	31CH	2450 MHz	50CH	2469 MHz		
13CH	2432 MHz	32CH	2451 MHz	51CH	2470 MHz		
14CH	2433 MHz	33CH	2452 MHz	52CH	2471 MHz		
15CH	2434 MHz	34CH	2453 MHz	53CH	2472 MHz		
16CH	2435 MHz	35CH	2454 MHz	54CH	2473 MHz		
17CH	2436 MHz	36CH	2455 MHz	55CH	2474 MHz		
18CH	2437 MHz	37CH	2456 MHz	56CH	2475 MHz		
19CH	2438 MHz	38CH	2457 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



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selected channel see below:

Channel	Frequency	
The Lowest channel(CH1)	2420MHz	
The Middle channel(CH28)	2447MHz	
The Highest channel(CH56)	2475MHz	

4.2 Description of Support Units

The EUT has been tested as an independent unit.



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4.3 Measurement Uncertainty

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



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4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC

Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

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

VCCI

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

FCC –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.

4.6 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	2016-10-09	2017-10-09
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09

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	2017-05-02	2020-05-01
Measurement Software	AUDIX	e3 V8.2014- 6-27	N/A	N/A	N/A
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
BiConiLog Antenna (26- 3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-03-05	2020-03-05
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
Horn Antenna(15GHz- 40GHz)	Schwarzbeck	BBHA 9170	SEM003-14	2017-06-16	2020-06-15
Pre-amplifier (0.1- 1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA- 0118-352810	SEM005-05	2016-10-09	2017-10-09
Pre-amplifier(0.1- 26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-10	2016-10-17	2017-10-17
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2017-04-14	2018-04-13
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14
Band filter	N/A	N/A	SEM023-01	N/A	N/A



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Restricted Band Around		<u> </u>			1
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-02	2020-05-01
Measurement Software	AUDIX	e3 V8.2014- 6-27	N/A	N/A	N/A
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-03-05	2020-03-05
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-14	2017-06-16	2020-06-15
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA- 0118-352810	SEM005-05	2016-10-09	2017-10-09
Pre-amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-10	2016-10-17	2017-10-17
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2017-04-14	2018-04-13
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14
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	2017-05-10	2018-05-10
Measurement Software	AUDIX	e3 V8.2014- 6-27	N/A	N/A	N/A
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
BiConiLog Antenna (26- 3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-03-05	2020-03-05
Double-ridged horn (1- 18GHz)	ETS-Lindgren	3117	SEM003-11	2015-10-17	2018-10-17
Horn Antenna (18- 26GHz)	ETS-Lindgren	3160	SEM003-12	2014-11-24	2017-11-24

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Horn Antenna(26GHz- 40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2015-02-12	2018-02-12
Pre-amplifier (0.1- 1300MHz)	Agilent Technologies	8447D	SEM005-01	2017-04-14	2018-04-13
Low Noise Amplifier	Black Diamond Series	BDLNA- 0118-352810	SEM005-05	2016-10-09	2017-10-09
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2017-04-14	2018-04-13
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14
Band filter	Amindeon	Asi 3314	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	2016-10-12	2017-10-12				
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2016-10-12	2017-10-12				
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2016-10-12	2017-10-12				
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-18				



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

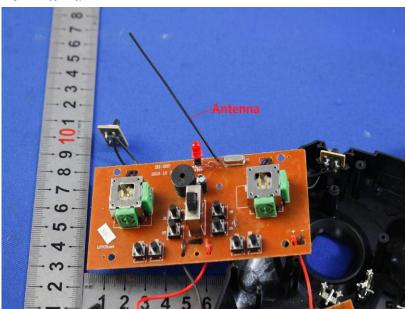
6.1.2 Conclusion

Standard Requirment:

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

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

EUT Antenna:



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

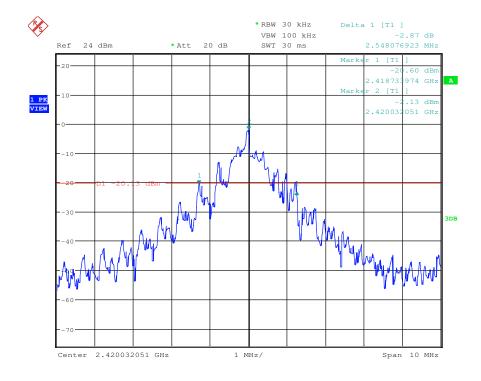
Operating Environment:

Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1000 mbar

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

7.1.2 Measurement Procedure and Data

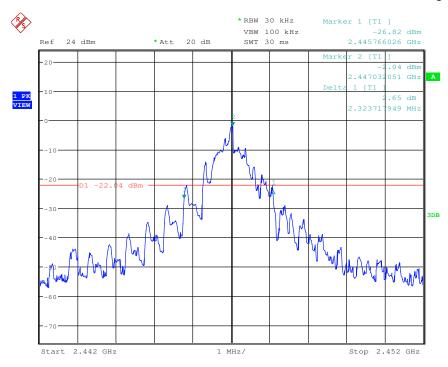
Test Channel	20dB bandwidth (MHz)	Results
Lowest	2.55	Pass
Middle	2.45	Pass
		_
Highest	1.41	Pass

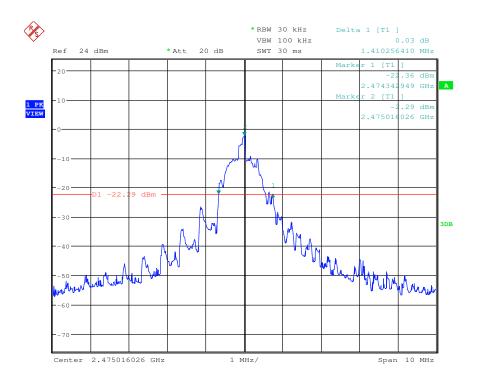




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7.2 Field Strength of the Fundamental Signal (15.249(a))

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		
2400MHz-2483.5MHz	94.0	Average Value		
	114.0	Peak Value		

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1000 mbar

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

7.2.2 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 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.

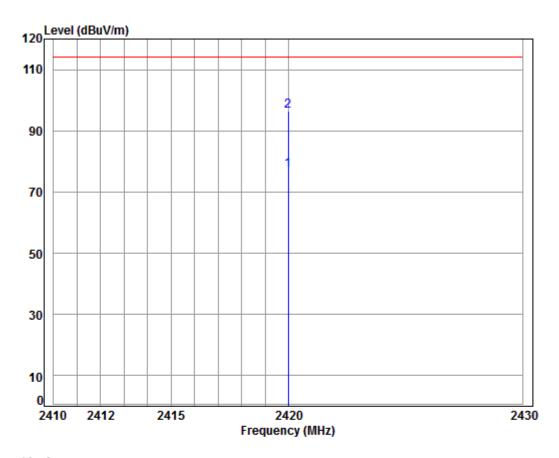
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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



Condition: 3m HORIZONTAL

Job No : 08169CR

Mode : 2420 Field strength

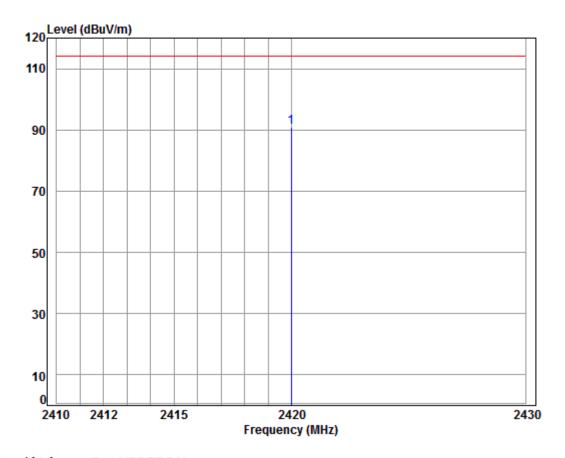
Ju	_		Cable		Preamp Factor					
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
		2420.000 2420.000								_



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



Condition: 3m VERTICAL Job No : 08169CR

Mode : 2420 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

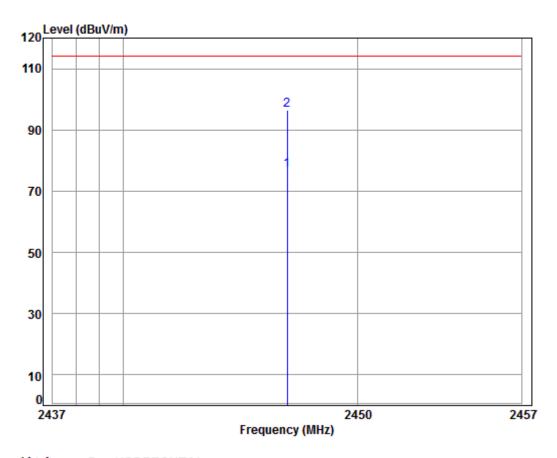
1 pp 2420.000 5.52 29.17 37.95 94.10 90.84 114.00 -23.16 peak



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



Condition: 3m HORIZONTAL

Job No : 08169CR

Mode : 2447 Field strength

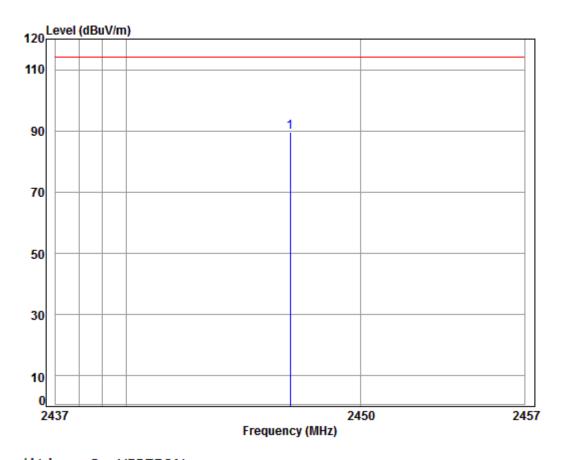
ouc	Freq	Cable	Ant	Preamp Factor						
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	2447.000								_	



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



Condition: 3m VERTICAL Job No : 08169CR

Mode : 2447 Field strength

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Freq Limit Remark Level Level Line MHz dBuV dBuV/m dBuV/m dB dB/m dB dB

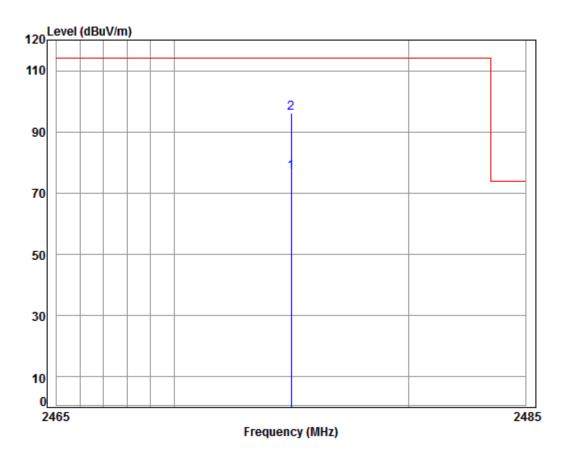
1 pp 2447.000 5.55 29.25 37.95 92.83 89.68 114.00 -24.32 Peak



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



Condition: 3m HORIZONTAL

Job No : 08169CR

Mode : 2475 Field strength

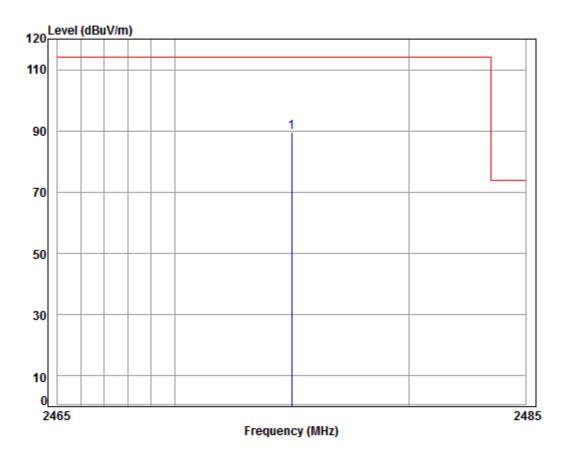
oue	Freq	Cable	Ant	Preamp Factor						
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
	2475.000 2475.000								_	



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



Condition: 3m VERTICAL Job No : 08169CR

Mode : 2475 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 2475.000 5.59 29.33 37.95 92.75 89.72 114.00 -24.28 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:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1000 mbar

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

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.

7.3.2 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 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.

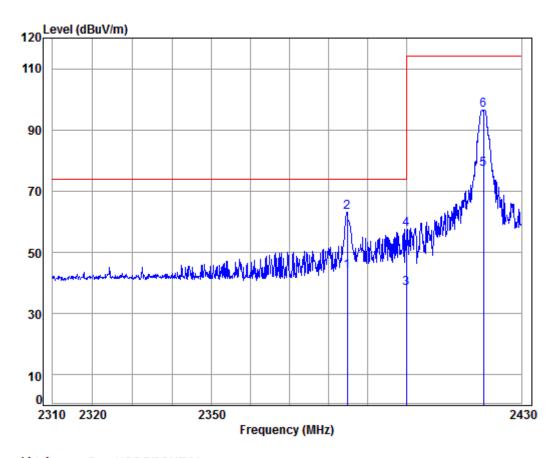
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Report No.: SZEM170800816901

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



Condition: 3m HORIZONTAL

Job No : 08169CR

Mode : 2420 Band edge

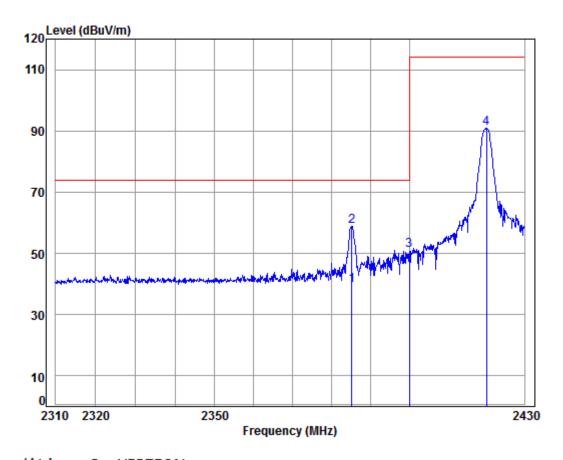
oue	. 242	Danu	euge						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2384.769	5.47	29.06	37.96	47.18	43.75	54.00	-10.25	Average
2 pk	2384.769	5.47	29.06	37.96	66.58	63.15	74.00	-10.85	Peak
3	2400.000	5.49	29.11	37.96	41.49	38.13	54.00	-15.87	Average
4	2400.000	5.49	29.11	37.96	60.89	57.53	74.00	-16.47	peak
5	2420.000	5.52	29.17	37.95	80.27	77.01	94.00	-16.99	Average
6	2420.000	5.52	29.17	37.95	99.68	96.42	114.00	-17.58	peak



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



Condition: 3m VERTICAL Job No : 08169CR

Mode : 2420 Band edge

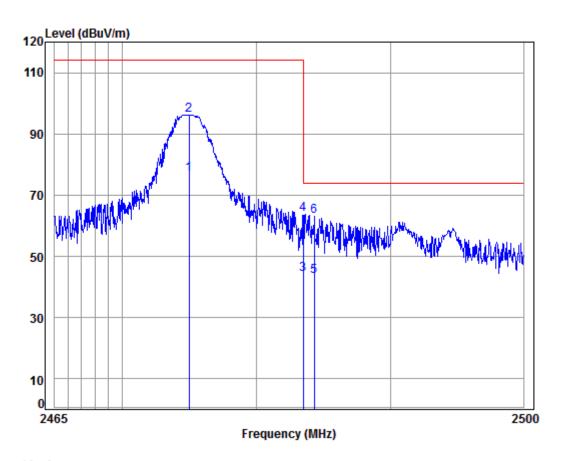
loue	. 242	o Daniu	euge						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2385.132	5.47	29.06	37.96	42.89	39.46	54.00	-14.54	Average
2 pk	2385.132	5.47	29.06	37.96	62.29	58.86	74.00	-15.14	Peak
3	2400.000	5.48	29.10	37.96	54.46	51.08	74.00	-22.92	peak
4	2420.000	5.52	29.17	37.95	94.10	90.84	114.00	-23.16	peak



Report No.: SZEM170800816901

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



Condition: 3m HORIZONTAL

Job No : 08169CR

Mode : 2475 Band edge

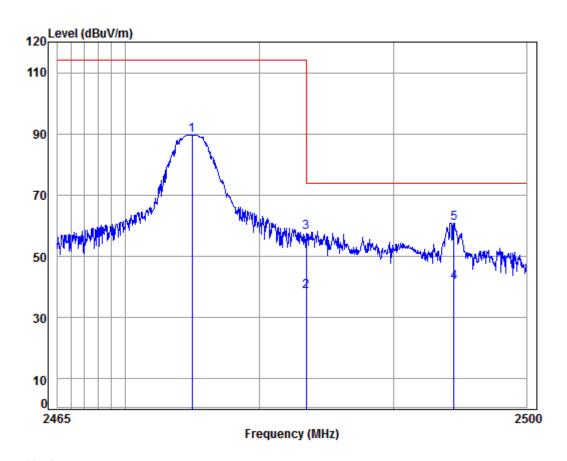
ouc	. 247	J Dania	cuge							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2475.000	5.59	29.33	37.95	79.88	76.85	94.00	-17.15	Average	
2	2475.000	5.59	29.33	37.95	99.28	96.25	114.00	-17.75	peak	
3 p	p 2483.500	5.60	29.35	37.95	47.29	44.29	54.00	-9.71	Average	
4 p	k 2483.500	5.60	29.35	37.95	66.68	63.68	74.00	-10.32	peak	
5	2484.329	5.60	29.35	37.95	46.59	43.59	54.00	-10.41	Average	
6	2484.329	5.60	29.35	37.95	65.98	62.98	74.00	-11.02	Peak	



Report No.: SZEM170800816901

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



Condition: 3m VERTICAL Job No : 08169CR

Mode : 2475 Band edge

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
3	2475.000 2483.500 2483.500 2494.543	5.60 5.60	29.35 29.35	37.95	41.62 61.01	38.62 58.01	54.00 74.00	-15.38 -15.99	Average peak
	2494.543								_



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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: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1000 mbar

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



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7.4.2 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

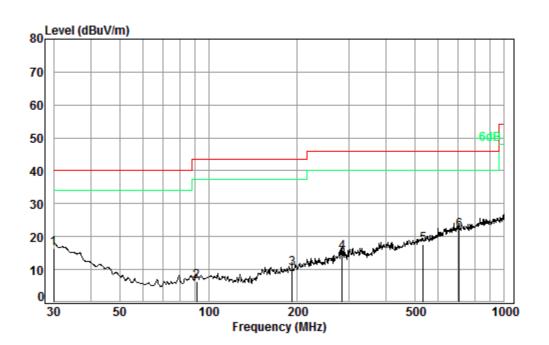


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Radiated Emission below 1GHz

30MHz~1GHz (QP) Polarization:Horizontal;



Condition: 3m HORIZONTAL

Job No. : 08169CR

Test mode: a

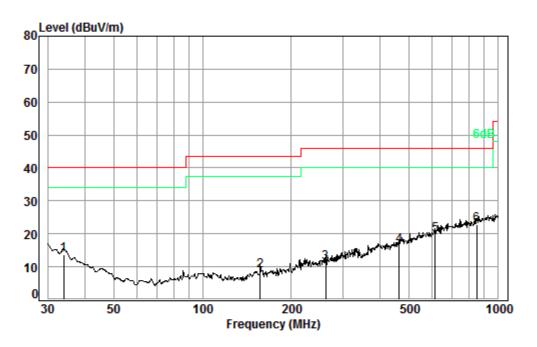
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
			-				-	
1 pp	30.00	0.60	18.70	27.36	24.53	16.47	40.00	-23.53
2	91.17	1.11	8.75	27.21	23.77	6.42	43.50	-37.08
3	191.75	1.39	10.12	26.73	25.48	10.26	43.50	-33.24
4	283.98	1.83	13.20	26.44	26.54	15.13	46.00	-30.87
5	531.96	2.63	18.61	27.65	23.99	17.58	46.00	-28.42
6	704.23	2.92	21.60	27.41	24.77	21.88	46.00	-24.12



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Polarization:Vertical;



Condition: 3m HORIZONTAL

Job No. : 08169CR

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	33.92	0.60	16.51	27.34	23.90	13.67	40.00	-26.33
2	157.01	1.33	9.42	26.87	24.93	8.81	43.50	-34.69
3	261.06	1.73	12.52	26.50	23.55	11.30	46.00	-34.70
4	463.97	2.47	17.40	27.52	23.94	16.29	46.00	-29.71
5	614.21	2.73	20.20	27.52	24.23	19.64	46.00	-26.36
6 pp	848.06	3.40	22.40	27.02	23.94	22.72	46.00	-23.28

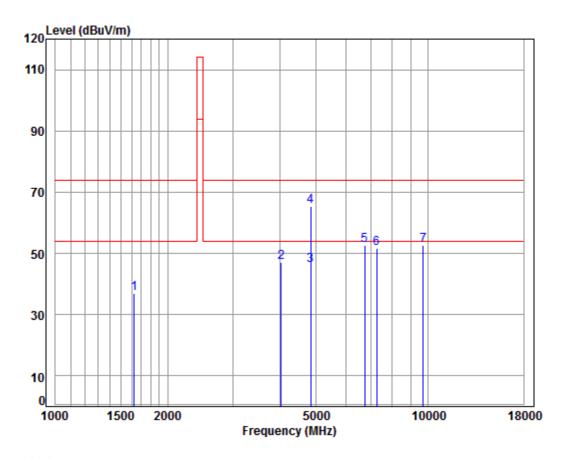


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Transmitter emission above 1GHz

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



Condition: 3m HORIZONTAL

Job No : 08169CR

Mode : 2420 TX RSF

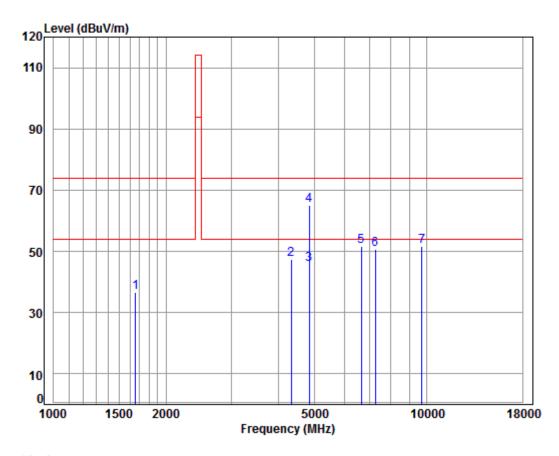
loue	: 242	א או ש	30						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1625.121	5.32	26.36	38.03	43.27	36.92	74.00	-37.08	peak
2	4027.554	7.01	33.60	38.02	44.54	47.13	74.00	-26.87	peak
3 p	p 4840.000	7.93	34.22	38.43	42.49	46.21	54.00	-7.79	Average
4 p	k 4840.000	7.93	34.22	38.43	61.82	65.54	74.00	-8.46	peak
5	6756.708	10.80	35.83	37.53	43.69	52.79	74.00	-21.21	peak
6	7260.000	10.06	36.39	37.05	42.22	51.62	74.00	-22.38	peak
7	9680.000	10.78	37.54	35.05	39.33	52.60	74.00	-21.40	peak



Report No.: SZEM170800816901

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



Condition: 3m VERTICAL Job No : 08169CR

Mode : 2420 TX RSE

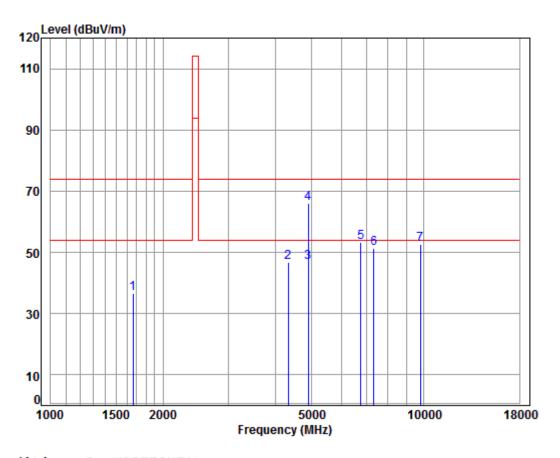
: 242	או פ	3E						
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1658.337	5.28	26.50	38.03	42.97	36.72	74.00	-37.28	peak
4329.354	7.37	33.60	38.18	44.58	47.37	74.00	-26.63	peak
4840.000	7.93	34.22	38.43	41.99	45.71	54.00	-8.29	Average
4840.000	7.93	34.22	38.43	61.39	65.11	74.00	-8.89	peak
6659.763	11.08	35.56	37.62	42.72	51.74	74.00	-22.26	peak
7260.000	10.06	36.39	37.05	41.23	50.63	74.00	-23.37	peak
9680.000	10.78	37.54	35.05	38.50	51.77	74.00	-22.23	peak
	Freq MHz 1658.337 4329.354 4840.000 4840.000 6659.763 7260.000	Cable Loss MHz dB 1658.337 5.28 4329.354 7.37 4840.000 7.93 4840.000 7.93 6659.763 11.08 7260.000 10.06	Freq Loss Factor MHz dB dB/m 1658.337 5.28 26.50 4329.354 7.37 33.60 4840.000 7.93 34.22 4840.000 7.93 34.22 6659.763 11.08 35.56 7260.000 10.06 36.39	Cable Ant Preamp Loss Factor Factor MHz dB dB/m dB 1658.337 5.28 26.50 38.03 4329.354 7.37 33.60 38.18 4840.000 7.93 34.22 38.43 6659.763 11.08 35.56 37.62 7260.000 10.06 36.39 37.05	Kreq Cable Loss Factor Factor Level Ant Preamp Level Read Level MHz dB dB/m dB dBuV 1658.337 5.28 26.50 38.03 42.97 4329.354 7.37 33.60 38.18 44.58 4840.000 7.93 34.22 38.43 41.99 4840.000 7.93 34.22 38.43 61.39 6659.763 11.08 35.56 37.62 42.72 7260.000 10.06 36.39 37.05 41.23	Cable Ant Preamp Read Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1658.337 5.28 26.50 38.03 42.97 36.72 4329.354 7.37 33.60 38.18 44.58 47.37 4840.000 7.93 34.22 38.43 41.99 45.71 4840.000 7.93 34.22 38.43 61.39 65.11 6659.763 11.08 35.56 37.62 42.72 51.74 7260.000 10.06 36.39 37.05 41.23 50.63	Cable Ant Preamp Read Limit Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1658.337 5.28 26.50 38.03 42.97 36.72 74.00 4329.354 7.37 33.60 38.18 44.58 47.37 74.00 4840.000 7.93 34.22 38.43 41.99 45.71 54.00 4840.000 7.93 34.22 38.43 61.39 65.11 74.00 6659.763 11.08 35.56 37.62 42.72 51.74 74.00 7260.000 10.06 36.39 37.05 41.23 50.63 74.00	Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB



Report No.: SZEM170800816901

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



Condition: 3m HORIZONTAL

Job No : 08169CR

Mode : 2447 TX RSE

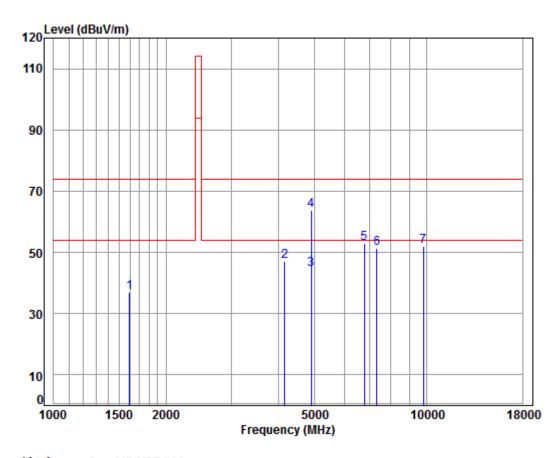
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			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1663.137	5.27	26.52	38.03	42.80	36.56	74.00	-37.44	peak	
2		4329.354	7.37	33.60	38.18	44.08	46.87	74.00	-27.13	peak	
3	pp	4894.000	7.98	34.32	38.45	42.78	46.63	54.00	-7.37	Average	
4	pk	4894.000	7.98	34.32	38.45	62.18	66.03	74.00	-7.97	peak	
5		6776.265	10.75	35.89	37.51	44.20	53.33	74.00	-20.67	peak	
6		7341.000	10.04	36.36	36.98	41.80	51.22	74.00	-22.78	peak	
7		9788.000	10.84	37.56	35.00	39.16	52.56	74.00	-21.44	peak	



Report No.: SZEM170800816901

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



Condition: 3m VERTICAL Job No : 08169CR

Mode : 2447 TX RSE

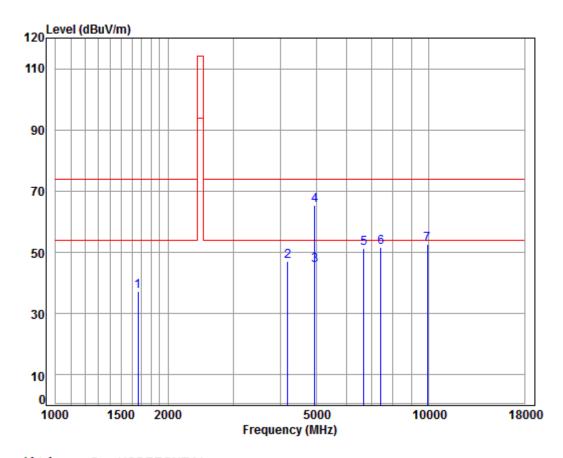
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			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1597.181	5.35	26.24	38.03	43.44	37.00	74.00	-37.00	peak
2		4157.664	7.17	33.60	38.09	44.51	47.19	74.00	-26.81	peak
3	pp	4894.000	7.98	34.32	38.45	40.52	44.37	54.00	-9.63	Average
4	pk	4894.000	7.98	34.32	38.45	59.92	63.77	74.00	-10.23	peak
5		6795.879	10.69	35.94	37.49	43.80	52.94	74.00	-21.06	peak
6		7341.000	10.04	36.36	36.98	42.02	51.44	74.00	-22.56	peak
7		9788.000	10.84	37.56	35.00	38.64	52.04	74.00	-21.96	peak



Report No.: SZEM170800816901

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



Condition: 3m HORIZONTAL

Job No : 08169CR

Mode : 2475 TX RSE

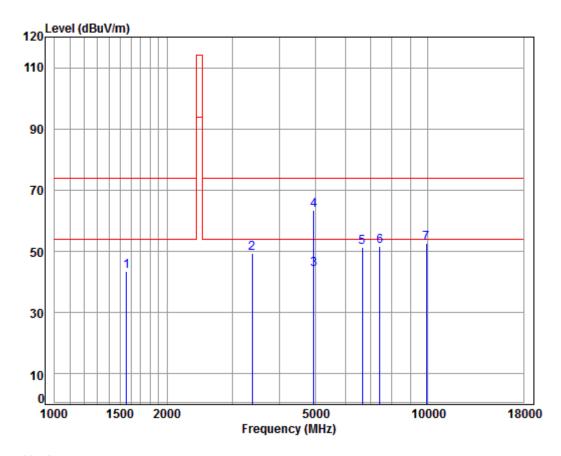
loue	. 24/) IV I	3E						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	5.27	26.52	38.03	43.37	37.13	74.00	-36.87	peak
2	4181.768	7.20	33.60	38.10	44.50	47.20	74.00	-26.80	peak
3	pp 4950.000	8.04	34.41	38.48	41.89	45.86	54.00	-8.14	Average
4	pk 4950.000	8.04	34.41	38.48	61.28	65.25	74.00	-8.75	peak
5	6679.040	11.02	35.61	37.60	42.33	51.36	74.00	-22.64	peak
6	7425.000	10.02	36.33	36.90	42.21	51.66	74.00	-22.34	peak
7	9900.000	10.89	37.58	34.95	39.02	52.54	74.00	-21.46	peak



Report No.: SZEM170800816901

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



Condition: 3m VERTICAL Job No : 08169CR

Mode : 2475 TX RSF

loue	. 24/) IV I	3E						
		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	1560.673	5.40	26.08	38.04	49.91	43.35	74.00	-30.65	peak
2	3376.523	6.35	31.99	37.94	48.98	49.38	74.00	-24.62	peak
3 pp	4950.000	8.04	34.41	38.48	40.13	44.10	54.00	-9.90	Average
4 pk	4950.000	8.04	34.41	38.48	59.52	63.49	74.00	-10.51	peak
5	6659.763	11.08	35.56	37.62	42.44	51.46	74.00	-22.54	peak
6	7425.000	10.02	36.33	36.90	42.14	51.59	74.00	-22.41	peak
7	9900.000	10.89	37.58	34.95	39.18	52.70	74.00	-21.30	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 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.



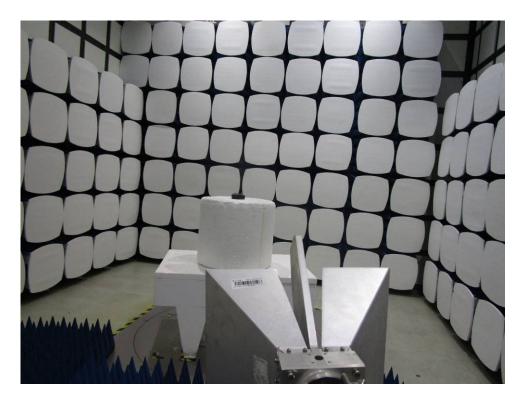
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8 Photographs

8.1 Radiated Emissions Test Setup





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8.2 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1708008169CR.