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TEST REPORT

Application No.: SZCR2105020855AT

Applicant: MEKBAO PLASTIC ELECTRONIC INDUSTRIAL CO., LTD

Address of Applicant: Jiaoxi Industry Areas Lianxia Chenghai, Shantou City, GD China

Manufacturer: MEKBAO PLASTIC ELECTRONIC INDUSTRIAL CO., LTD

Address of Manufacturer: Jiaoxi Industry Areas Lianxia Chenghai, Shantou City, GD China

Equipment Under Test (EUT):

EUT Name: Remote control car series

Model No.: 5588-620, 5588-616, 5588-619, WD03-1, WD03-2, WD03-3, 96590 .

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

actually tested and which were electrically identical.

FCC ID: 2AGUM-5588013

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

Date of Receipt: 2021-05-06

Date of Test: 2021-05-13 to 2021-05-20

Date of Issue: 2021-05-28

Test Result: Pass*

Keny Xu EMC Laboratory Manager



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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 Re						
01		2021-05-28		Original			

Authorized for issue by:			
	Gebin Sun		
	Gebin Sun/Project Engineer	-	
	Exic Fu		
	Eric Fu/Reviewer	-	



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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		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,	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass			
Restricted Band Around Fundamental Frequency	Subpart C 15.249	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass			
Radiated Emissions		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.: 5588-620, 5588-616, 5588-619, WD03-1, WD03-2, WD03-3, 96590

Only the model 5588-620 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on color, appearance and packaging.



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General Information

4.1 Details of E.U.T.

Power supply:	3V DC(1.5V x 2 "AA" Size Batteries) for TX
Operation Frequency:	2.4GHz(2408MHz-2475MHz)
Modulation Type:	GFSK
Number of Channels:	68
Channel Spacing:	1MHz
Sample Type:	Portable production
Antenna Type:	Integral
Antenna Gain:	0dBi

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.			
		-				
The EUT has been tested as an independent unit.						

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	± 3%
Field Strength of the Fundamental Signal (15.249(a))	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Restricted Band Around Fundamental Frequency	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Emissions	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Temperature test	± 1°C
Humidity test	± 3%
Supply voltages	± 1.5%
Time	± 3%

Remark:

The Ulab (lab Uncertainty) is less than Ucispr (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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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:

• 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.

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Equipment List

20dB Bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2021-04-08	2022-04-07	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2021-04-08	2022-04-07	

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	2021-03-26	2024-03-25	
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09	

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	2021-03-26	2024-03-25	
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09	



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Radiated Emissions Below 1GHz						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09	

Radiated Emissions Above 1GHz								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
3m Semi-Anechoic Chamber	AUDIX	AUDIX N/A		SEM001-02 2021-03-26				
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31			
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13			
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09			

General used equipment							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14		
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14		
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29		



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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

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

EUT Antenna:

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

Antenna location: Refer to Internal photos





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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

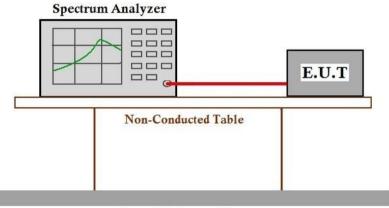
Operating Environment:

Temperature: 20.3 °C Humidity: 47.1 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

		our paren
Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting with modulation mode.

7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	1.237	Pass
Middle	1.237	Pass
Highest	1.484	Pass



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Test Mode: OBW 2408MHz





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Test Mode: OBW 2442MHz





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Test Mode: OBW 2475MHz





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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:

Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)		
902-928	50	500		
2400-2483.5	50	500		
5725-5875	50	500		
24000-24250	250	2500		

Remark: The frequencies above 1000MHz 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.

For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

Average value:

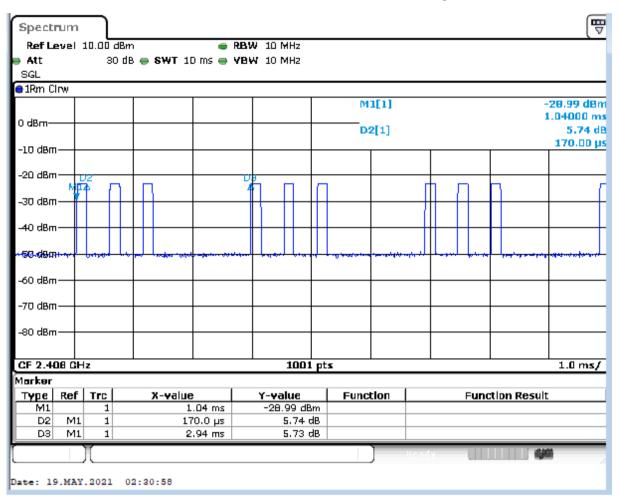
	Average value=Peak value + PDCF
Calculate Formula:	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
	Ton time =0.51ms
Test data:	T period =2.94ms
resi dala.	Duty cycle=17.347%
	PDCF value= -15.22dB





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7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 58.5 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Mode Final test Code		Description					
Final test	01	TX mode_Keep the EUT in transmitting with modulation mode.					



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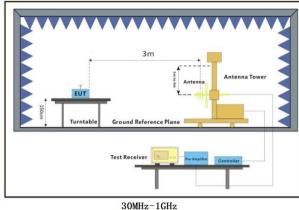
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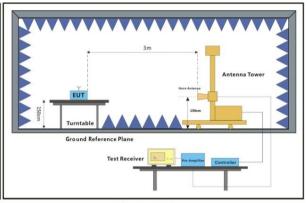


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7.2.3 Test Setup Diagram





Above 1GHz

7.2.4 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.lf 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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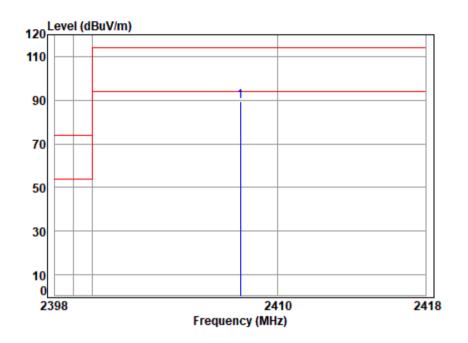
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20855AT

2408,000

1

Mode : 2408 Field strength

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

> > 4.37 28.92 40.43 96.74 89.60 114.00 -24.40 peak



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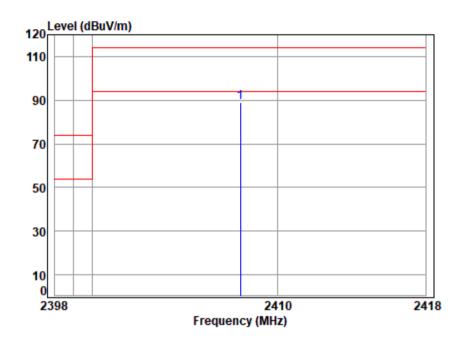
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20855AT

Mode : 2408 Field strength

> Ant Preamp Cable Limit 0ver Read Loss Factor Factor Level Level Line Limit Remark Freq

MHz dΒ dB/m dΒ dBuV dBuV/m dBuV/m dB

1 2408.000 4.37 28.92 40.43 95.93 88.79 114.00 -25.21 peak



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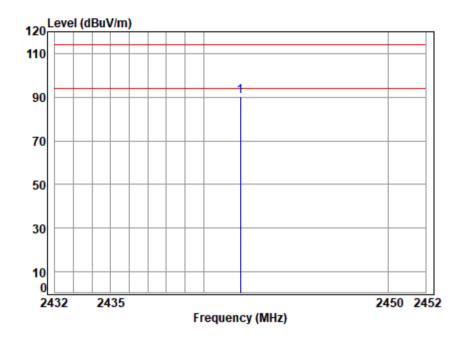
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Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20855AT

Mode : 2442 Field strength

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

1 2442.000 4.43 28.98 40.45 97.37 90.33 114.00 -23.67 peak



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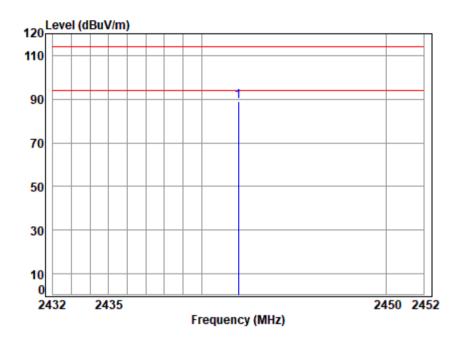
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 20855AT

Mode : 2442 Field strength

Cable Ant Preamp Read Limit Over

Freq Loss Factor Factor Level Level Line Limit Remark

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

1 2442.000 4.43 28.98 40.45 96.21 89.17 114.00 -24.83 peak



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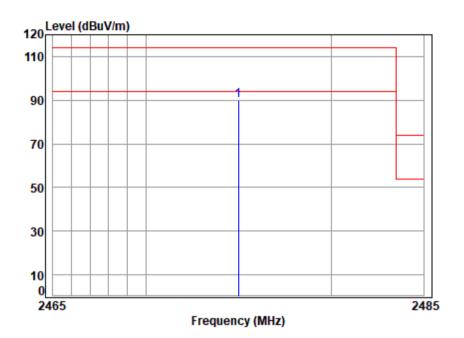
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Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20855AT

2475.000

1

Mode : 2475 Field strength

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

> > 4.48 29.05 40.46 96.97 90.04 114.00 -23.96 peak



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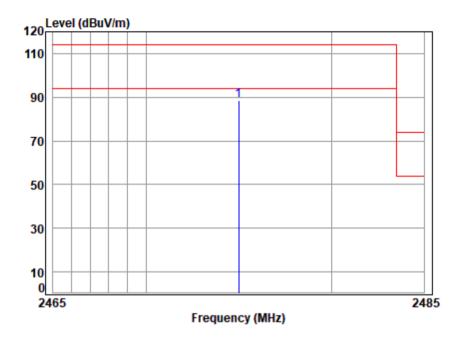
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Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 20855AT

: 2475 Field strength Mode

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

1 2475.000 4.48 40.46 95.59 88.66 114.00 -25.34 peak 29.05

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 6.10.5

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

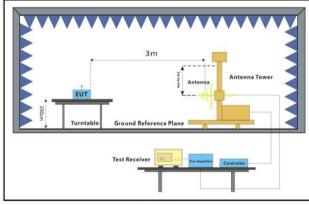
Operating Environment:

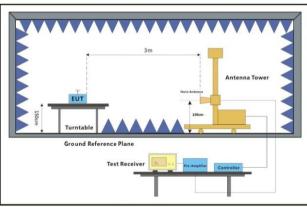
Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting with modulation mode.

7.3.3 Test Setup Diagram





30MHz-1GHz Above 1GH



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7.3.4 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
- 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

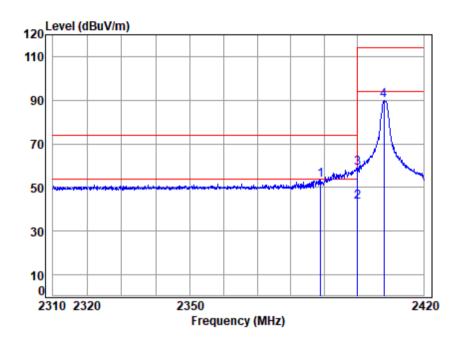




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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 20855AT Job No

Mode : 2408 Band edge

		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	2389.016	4.34	28.88	40.42	60.58	53.38	74.00	-20.62	Peak
2	2400.000	4.36	28.90	40.42	50.60	43.44	54.00	-10.56	Average
3	2400.000	4.36	28.90	40.42	65.82	58.66	74.00	-15.34	peak
4	2408.000	4.37	28.92	40.43	96.82	89.68	114.00	-24.32	peak



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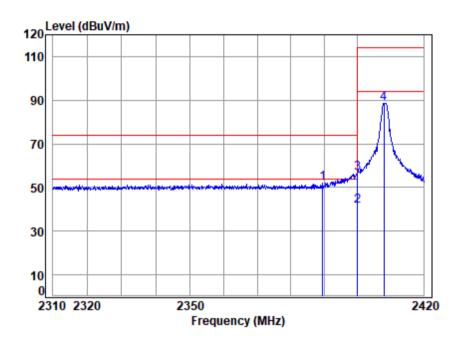
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Job No

1

2

Condition: 3m VERTICAL

Mode : 2408 Band edge

: 20855AT

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Freq Level Level Line MHz dΒ dB/m dΒ dBuV dBuV/m dBuV/m dB 2389.572 4.34 28.88 40.42 59.03 51.83 74.00 -22.17 Peak 4.36 28.90 40.42 48.63 41.47 54.00 -12.53 Average 2400.000 2400.000 4.36 28.90 40.42 63.85 56.69 74.00 -17.31 peak 2408.000 4.37 28.92 40.43 95.88 88.74 114.00 -25.26 peak



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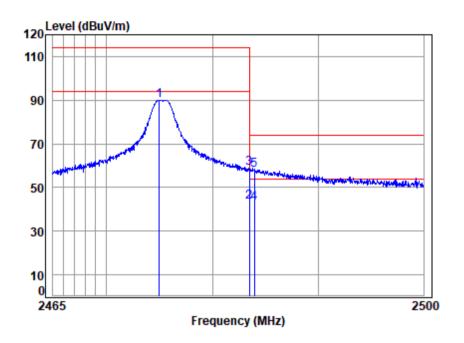
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 20855AT Job No

Mode : 2475 Band edge

			~6-							
		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	2474.995	4.48	29.05	40.46	97.02	90.09	114.00	-23.91	peak	
2	2483.500	4.49	29.07	40.47	50.36	43.45	54.00	-10.55	Average	
3	2483.500	4.49	29.07	40.47	65.58	58.67	74.00	-15.33	peak	
4	2483.979	4.49	29.07	40.47	49.79	42.88	54.00	-11.12	Average	
5	2483.979	4.49	29.07	40.47	65.01	58.10	74.00	-15.90	Peak	



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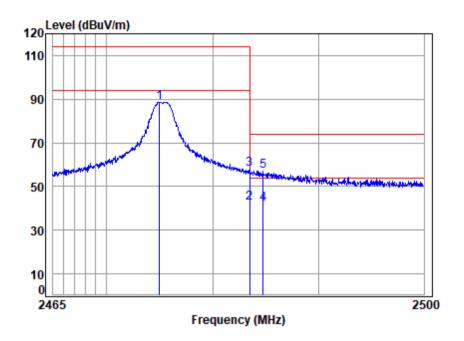
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Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 20855AT

Mode : 2475 Band edge

		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	2474.995	4.48	29.05	40.46	95.60	88.67	114.00	-25.33	peak
2	2483.500	4.49	29.07	40.47	49.45	42.54	54.00	-11.46	Average
3	2483.500	4.49	29.07	40.47	64.67	57.76	74.00	-16.24	peak
4	2484.784	4.50	29.07	40.47	48.71	41.81	54.00	-12.19	Average
5	2484.784	4.50	29.07	40.47	63.93	57.03	74.00	-16.97	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
- 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:

Fraguenov/MHz)	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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT in transmitting with modulation mode.



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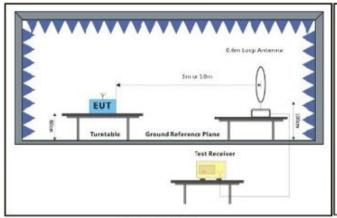
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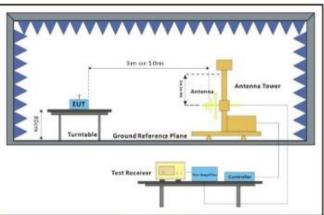


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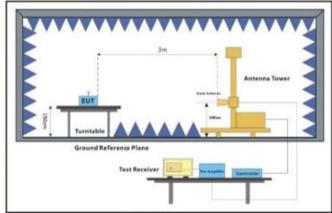
7.4.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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7.4.4 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:
- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) 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

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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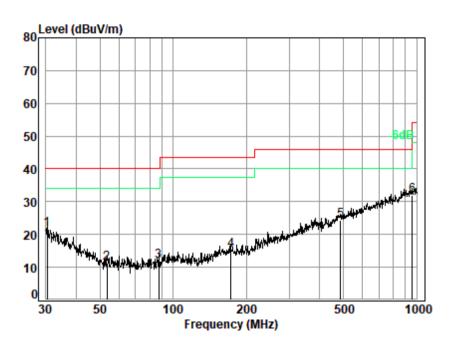


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Below 1GHz

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 20855AT

Test Mode: 01

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.42	0.60	22.67	27.73	26.02	21.56	40.00	-18.44	QP
2	53.51	0.74	13.50	27.68	24.76	11.32	40.00	-28.68	QP
3	87.11	1.27	12.72	27.62	25.58	11.95	40.00	-28.05	QP
4	172.60	1.18	15.55	27.24	25.58	15.07	43.50	-28.43	QP
5	487.32	2.48	24.30	27.75	25.25	24.28	46.00	-21.72	QP
6 q	958.79	3.56	29.48	26.86	25.83	32.01	46.00	-13.99	QP



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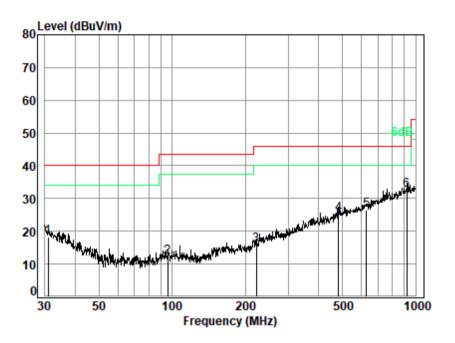
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Job No. : 20855AT

Condition: 3m VERTICAL

Test Mode: 01

		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	30.96	0.61	22.27	27.73	23.16	18.31	40.00	-21.69	QP
2	96.10	1.18	13.80	27.61	24.81	12.18	43.50	-31.32	QP
3	222.17	1.41	16.91	27.07	24.47	15.72	46.00	-30.28	QP
4	482.22	2.47	24.30	27.73	26.26	25.30	46.00	-20.70	QP
5	629.48	2.76	26.51	28.06	25.13	26.34	46.00	-19.66	QP
6 a	922.52	3.52	29.20	27.05	27.01	32.68	46.00	-13.32	OP



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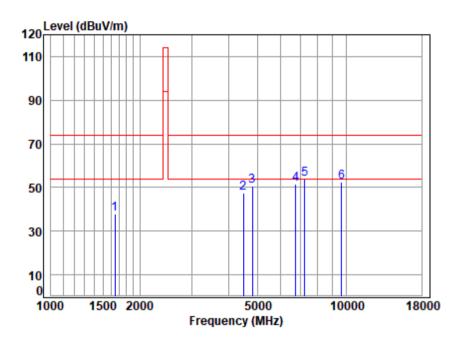


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Above 1GHz

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20855AT

Mode : 2408 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	1648.778	3.39	26.46	40.03	48.07	37.89	74.00	-36.11	peak
2	4482.150	6.74	32.99	41.86	49.79	47.66	74.00	-26.34	peak
3	4816.000	7.11	33.64	42.15	51.91	50.51	74.00	-23.49	peak
4	6737.207	8.41	35.04	41.87	50.17	51.75	74.00	-22.25	peak
5	7224.000	8.75	35.68	41.49	50.98	53.92	74.00	-20.08	peak
6	9632.000	10.80	37.35	37.72	41.97	52.40	74.00	-21.60	peak



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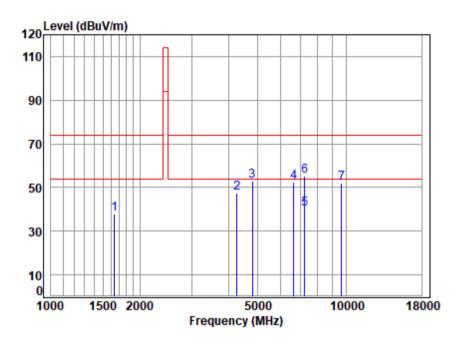
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 20855AT Mode : 2408 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	1644.019	3.38	26.43	40.03	47.90	37.68	74.00	-36.32	peak
2	4267.237	6.54	32.82	41.66	49.74	47.44	74.00	-26.56	peak
3	4816.000	7.11	33.64	42.15	54.31	52.91	74.00	-21.09	peak
4	6640.542	8.36	34.86	41.94	50.98	52.26	74.00	-21.74	peak
5	7224.000	8.75	35.68	41.49	37.08	40.02	54.00	-13.98	Average
6	7224.000	8.75	35.68	41.49	52.30	55.24	74.00	-18.76	peak
7	9632,000	10.80	37.35	37.72	41.78	52.21	74.00	-21.79	peak



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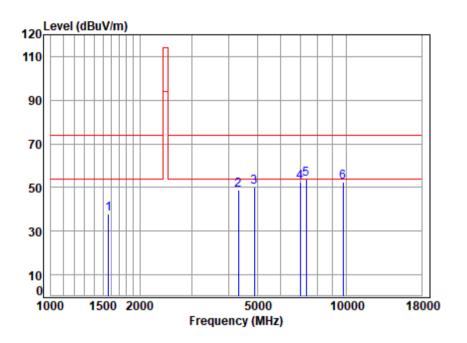
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Test Mode: 01; Polarity: Horizontal; Modulation: GFSK; Channel: middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20855AT

Mode : 2442 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	1565.191	3.32	26.04	39.99	48.49	37.86	74.00	-36.14	peak
2	4316.859	6.59	32.86	41.71	50.94	48.68	74.00	-25.32	peak
3	4884.000	7.18	33.78	42.21	51.33	50.08	74.00	-23.92	peak
4	6974.982	8.53	35.46	41.72	50.07	52.34	74.00	-21.66	peak
5	7326.000	8.85	35.76	41.39	50.58	53.80	74.00	-20.20	peak
6	9768.000	10.76	37.41	37.49	41.70	52.38	74.00	-21.62	peak



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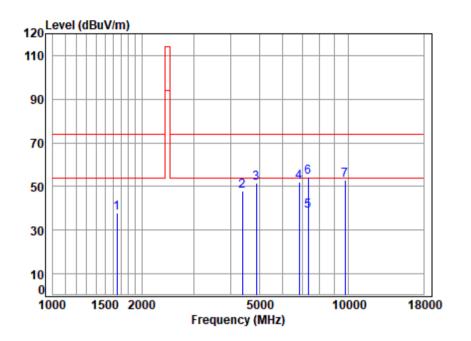
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber

1

2

3

5

6

Condition: 3m VERTICAL

Job No : 20855AT Mode : 2442 TX RSE

Cable Ant Preamp 0ver Read Limit Loss Factor Factor Limit Remark Freq Level Level Line MHz dΒ dB/m dΒ dBuV dBuV/m dBuV/m dB 1648.778 3.39 26.46 40.03 47.93 37.75 74.00 -36.25 peak 50.11 47.90 74.00 -26.10 peak 4379,699 6.65 32.91 41.77 4884.000 7.18 33.78 42.21 52.75 51.50 74.00 -22.50 peak 6835.278 8.46 35.21 41.81 50.21 52.07 74.00 -21.93 peak 7326.000 8.85 35.76 41.39 35.65 38.87 54.00 -15.13 Average 7326.000 8.85 35.76 41.39 50.87 54.09 74.00 -19.91 peak 9768.000 10.76 37.41 37.49 42.05 52.73 74.00 -21.27 peak



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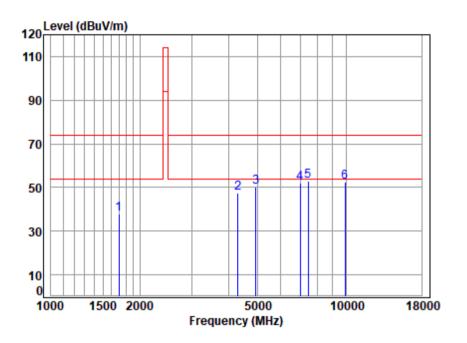
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 20855AT

Mode : 2475 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	1697.129	3.43	26.69	40.06	48.04	38.10	74.00	-35.90	peak
2	4304.400	6.58	32.85	41.70	49.75	47.48	74.00	-26.52	peak
3	4950.000	7.25	33.90	42.26	51.51	50.40	74.00	-23.60	peak
4	6995.172	8.54	35.49	41.70	49.65	51.98	74.00	-22.02	peak
5	7425.000	8.94	35.84	41.30	49.55	53.03	74.00	-20.97	peak
6	9900.000	10.72	37.46	37.27	41.55	52.46	74.00	-21.54	peak



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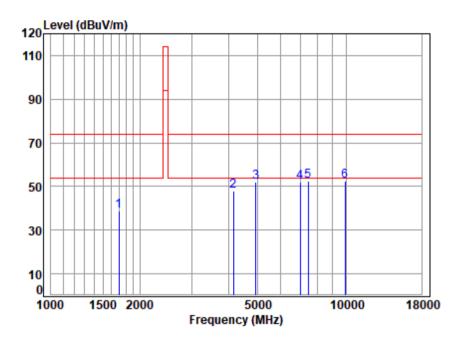
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Test Mode: 01; Polarity: Vertical; Modulation: GFSK; Channel: High



Site : chamber

Condition: 3m VERTICAL

Job No : 20855AT Mode : 2475 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	1702.042	3.43	26.71	40.06	48.51	38.59	74.00	-35.41	peak
2	4157.664	6.44	32.73	41.56	50.45	48.06	74.00	-25.94	peak
3	4950.000	7.25	33.90	42.26	53.02	51.91	74.00	-22.09	peak
4	6974.982	8.53	35.46	41.72	49.87	52.14	74.00	-21.86	peak
5	7425.000	8.94	35.84	41.30	49.03	52.51	74.00	-21.49	peak
6	9900.000	10.72	37.46	37.27	41.50	52.41	74.00	-21.59	peak



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8 **Test Setup Photo**

Refer to setup photos for SZCR2105020855AT

EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2105020855AT

- End of the Report -



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