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FCC Test Report

Applicant : WeHome Technology Company Limited

Address Room 12A, Kiu Fu Comm Building, 300

Lockhart Road, Wan Chai, Hong Kong

Product Name : ROLA PetTracker

Report Date : Jun. 24, 2024

Shenzhen Anbotek Compliance Laboratory Limited







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Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-RF-05-b
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TEST REPORT

Applicant : WeHome Technology Company Limited

Manufacturer : Fuzhi Technology (Shenzhen) Co., Ltd.

Product Name : ROLA PetTracker

Test Model No. : ROLA PetTracker

Reference Model No. : N/A

Trade Mark : 🕰 enobot

Rating(s) Input: 5V—

Battery Capacity: DC 3.85V, 1500mAh

Test Standard(s) : 47 CFR Part 2, 47 CFR Part 22(H), 47 CFR Part 24(E)

Test Method(s) ANSI C63.26-2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the 47 CFR Part 22, 47 CFR Part 24 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt		Apr. 03, 2024
Date of Test :	w. Potek	Apr. 03 ~ Jun. 24, 2024

Prepared by:

(Nianxiu Chen)

Approved & Authorized Signer:

(Edward Pan)



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Revision History

Report Version	Description	Issued Date		
R00 of Andrew	Original Issue.	Jun. 24, 2024		
Anbotek Anbores An	Anbotek Anbotek Anbons	Anbotek Anbotek Anb		
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1. General Information

1.1. Client Information

Applicant	: WeHome Technology Company Limited	pote
Address	Room 12A, Kiu Fu Comm Building, 300 Lockhart Road, Wan Chai, Hong Kong	Anb
Manufacturer	: Fuzhi Technology (Shenzhen) Co., Ltd.	
Address	Room 302, Building 10, Qianhai Shengang Youth Dreamworks, No. 35 : Qianwan 1st Road, Qianhai-Hong Kong Cooperation Zone, Shenzhen, China	otel
Factory	: Huizhou HAOCHENG Technology Co.'Ltd	Anb (
Address	4/F,Building F,No.13Jinda Road,Huinan High-tech Industrial Park,Huiao AvenueZhongkaiHigh-tech one,Huizhou,Guangdong, P.R.China	P

1.2. Description of Device (EUT)

And water		po' A''
Product Name		ROLA PetTracker
Test Model No.	:	ROLA PetTracker
Reference Model No.	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek An
Trade Mark	:	n enabot ek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	DC 3.85V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter		N/A Anbotek Anbotek Anbotek Anbotek Anbotek An
RF Specification		
Support Band		⊠ GSM850 ⊠ PCS1900
Support Network	:	GPRS, EGPRS
Transmit Frequency	:	GSM 850: 824.2MHz~848.8 MHz PCS 1900: 1850.2MHz~1909.8 MHz
Receive Frequency		GSM 850: 869.20MHz~893.80MHz PCS 1900: 1930.20MHz-1989.80MHz
Modulation Type		GMSK for GPRS 8PSK for EGPRS
GPRS Multislot Class		12 Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek





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EGPRS Multislot Class	:	12	Anbotek A	Vupotek Yun	Anbotek A	Aupotek W.
Antenna Type	:	FPC Antenna	ek Anborek	Anborotek	Anbotek	Anboten
Antenna Gain(Peak)	:	GSM 850: -5.77 dE PCS 1900: -0.79 d		ofek Anbot	ek Anbotek	tek Anbote

Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.





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1.3. Auxiliary Equipment Used During Test

Description	Rating(s)					
Anb sek shore	- Aupor	Ar. Otek	Aupoten	Anb	borek	Aupor

1.4. Operation State

Test frequency list:

	GSN	1 850	PCS1900			
Channel		Channel Frequency (MHz)		Frequency (MHz)		
Aupo.	128	824.20	512	1850.20		
Aupote	190	836.60	661	1880.00		
Anbr	251	848.80	810 Moore	1909.80		

Test mode:

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 and ANSI C63.26-2015 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

30 MHz to 10th harmonic for GSM850, PCS1900.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

1011	Test modes	
Band	Radiated	Conducted
GSM 850	■ GPRS Class 8 link ■ EGPRS Class 8 link	■ GPRS Class 8 link ■ EGPRS Class 8 link
PCS 1900	■ GPRS Class 8 link ■ EGPRS Class 8 link	■ GPRS Class 8 link ■ EGPRS Class 8 link

1.5. Environmental Conditions

Temperature range:	21-25 ℃				Anborer	VUP
Humidity range:	40-75%	nbotek	Anbore	Pur Potek	Anborek	VU
Pressure range:	86-106kPa	k abotek	Anbore	-k hotek	Anbotek	







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1.6. Test Equipment List

	184					
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1. _{p.} r	EMI Preamplifier	SKET Electronic	LNPA-0118G-4 5	SKET-PA-002	Jan. 17, 2024	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Jan. 23, 2024	1 Year
3.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
4.bot	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
5. Ari	Pre-amplifier	SONOMA	310N	186860	Jan. 17, 2024	1 Year
6.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
7.o.k	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
8.	DC Power Supply	LW Moot	TPR-6420D	374470	Oct. 20, 2023	1 Year
9. ^{Ant}	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 16, 2023	1 Year
10-	Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	167336	Feb. 04, 2024	1 Year
11. Anb	High-Pass Filter	CDKMV	ZHPF-BM1100 -4000-0730	B2015094550	Oct. 20, 2023	1 Year
12.	High-Pass Filter	CDKMV	ZHPF-M3.5 -18G-3834	1307006523	Oct. 20, 2023	1 Year
13.	Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	01109	Oct. 16, 2022	3 Year
14.	Double Ridged Horn Antenna	Chengyi Electronics Co., Ltd.	GTH-0118	351600	Nov. 02, 2022	2 Year
15. 🖹	Signal Generator	Anritsu	MG3690A	MY48180749	Oct. 12, 2023	1 Year
	. 0/8/	762	-200, by	V	120	





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1.7. Measurement Uncertainty

Parameter	Uncertainty			
Occupied Bandwidth	925Hz			
Conducted Output Power	0.76dB			
Conducted Spurious Emission	1.24dB			
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB			
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB			

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.8. Description of Test Facility

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

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.







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1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.





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2. Summary of Test

2.1. Summary of test result

FCC Rules	Description of Test	Result
Part 2.1046 Part 22.913(a) Part 24.232(c)	Conducted Output Power	Compliance
Part 24.232	Peak-Average Ratio	Compliance
§ 2.1047	Modulation Characteristics	N/A
Part 2.1049	99% Occupied Bandwidth & 26 dB Bandwidth	Compliance
Part 2.1051	Anbotek Anbotek Anbotek	Anv
Part 22.917	Conducted Spurious Emission	Compliance
Part 24.238	And Anbotek Anbo	botek Anbore
Part 2.1051	And Anbor A	botek Anbote
Part 22.917	Band Edge	Compliance
Part 24.238	otek Anbotes And stek anbotek	
Part 2.1055(a)(1)(b)	stek upotek Aupo ok Potek	Anbore. A
Part 22.355	Frequency stability VS. temperature	Compliance
Part 24.235	Anbote Ant stek Anbotek Anbo	
Part 2.1055(d)(1)(2)	Anbotek Anbo	port Am
Part 22.355	Frequency stability VS. voltage	Compliance
Part 24.235	And otek Anbotek Anbo	
Part 2.1046	oter Anb	Viek V
Part 22.913(a)	ERP and EIRP	Compliance
Part 24.232(c)	Anbotek Anbotek Anbotek abote	k Anbore
Part 2.1053	Arm tek abotek Anbor Am	otek Anboten
Part 22.917	Radiated Spurious Emission	Compliance
Part 24.238	k Anboter And tek abotek	

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different







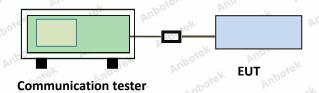
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3. Conducted Output Power Test

3.1. Test Standard and Limit

Applicable	Part 2.1046	Anbore An	rek	anbotek	Aupo. ok	hotel
Standard:	Part 22.913(a)					VUL
o [†]	Part 24.232(c)	h. botek	Anbore	Annatek	Anborek	Anb.
Limit:	N/A	r votek	Anbotek	AUP	ak abore	K P

3.2. Test Setup



3.3. Test Procedure

- 1. The EUT output port was connected to communication tester.
- 2. Set EUT at maximum power through communication tester.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power.

3.4. Test Data

Pass

Please refer to Appendix A of the Appendix Test Data.







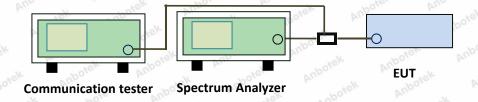
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4. Peak-Average Ratio

4.1. Test Standard and Limit

Applicable Standard:	Part 24.232	Anbore	And	Anborek	Anbo	, botel
Limit:	13dB	Anboten	Ando	abotek	Anboro	bu.

4.2. Test Setup



4.3. Test Procedure

According with KDB 971168 D01 Section 5.7:

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter.
 - 2. Set EUT in maximum power output.
 - 3. Center Frequency = Carrier frequency, RBW > Emission bandwidth of signal.
 - 4. The signal analyzer was set to collect one million samples to generate the CCDF curve.
 - 5. The measurement interval was set depending on the type of signal analyzed.
 - i. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.
- ii. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power
 - 6. Record the maximum PAPR level associated with a probability of 0.1%.

4.4. Test Data

Pass

Please refer to Appendix B of the Appendix Test Data.







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5. Modulation Characteristic

According to FCC § 2.1047(d), Part 22H, Part 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.





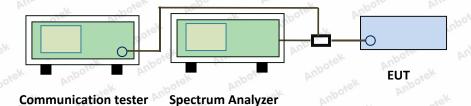
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6. 99% Occupied Bandwidth & 26 dB Bandwidth

6.1. Test Standard and Limit

ļ.	Applicable Standard:	Part 2.1049	Anbore	Ann	nbotek	Aupo	, botek
	Limit:	N/A	ik Anbotek	Anbo	abotek	Anboro	bu.

6.2. Test Setup



6.3. Test Procedure

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter.
- 2. Set EUT in maximum power output.
- Spectrum analyzer setting as follow:
 Center Frequency= Carrier frequency, RBW=1% to 5% of anticipated OBW, VBW= 3 * RBW,
 Detector=Peak,
 - Trace maximum hold.
- 4. Record the value of 99% Occupied bandwidth and -26dB bandwidth.

6.4. Test Data

Pass

Please refer to Appendix C of the Appendix Test Data.







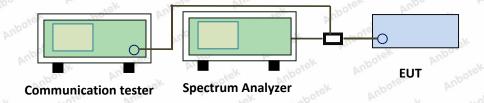
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7. Band Edge

7.1. Test Standard and Limit

Pr.	A TO THE TOTAL PARTY OF THE PAR							
Applicable Standard:	Part 2.1051							
	Part 22.917							
	Part 24.238							
Limit:	Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.							
	The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.							

7.2. Test Setup



7.3. Test Procedure

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter.
- 2. Set EUT in maximum power output.
- 3. The band edges of low and high channels were measured.
- Spectrum analyzer setting as follow:
 RBW=3KHz, VBW = 10KHz, Sweep time= Auto
- 5. Record the test plot.

7.4. Test Data

Pass

Please refer to Appendix D of the Appendix Test Data.







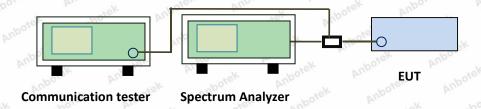
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8. Conducted Spurious Emission

8.1. Test Standard and Limit

Applicable Standard:	Part 2.1051
	Part 22.917
	Part 24.238
Limit:	Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.
	The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

8.2. Test Setup



8.3. Test Procedure

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter.
- 2. Set EUT in maximum power output.
- Spectrum analyzer setting as follow:
 Below 1GHz, RBW=100KHz, VBW = 300KHz, Detector=Peak, Sweep time= Auto
 Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peak, Sweep time= Auto
 Scan frequency range up to 10th harmonic.
- 4. Record the test plot.

8.4. Test Data

Pass

Please refer to Appendix E of the Appendix Test Data.







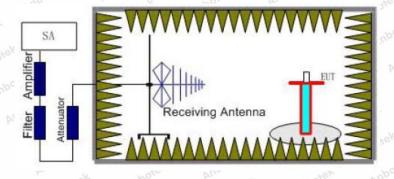
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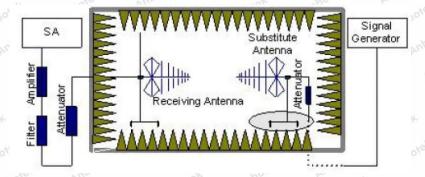
9. Radiated Spurious Emission

9.1. Test Standard and Limit

4	Applicable Standard:	Part 2.1053	Anb	Ole	Vun Jek	anbotek	Aupo.	hotel
		Part 22.917						Ann
o'i		Part 24.238	,	botek	Anbore	Annatek	Anbotek	Anb
77	Limit:	-13dBm	upor	bu.	k anbote	Aupo	ak abore	SK by

9.2. Test Setup





9.3. Test Procedure

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- 2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.







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Receiver or Spectrum set as follow:

Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto

- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
 - 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

Pe = Ps(dBm) - cable loss (dB) + antenna gain (dBd)

where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:

gain (dBd) = gain (dBi) - 2.15 dB.

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If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

9.4. Test Data

Pass

Note: Worst case at GPRS850/GPRS1900

			GPR	S850			
Fraguenav			Spurious	Limit			
Channel	Frequency (MHz)	Polarization	Reading (dBm)	Factor (dB)	Level (dBm)	(dBm)	Result
Anbo.	1648.40	Vertical	-40.70	5.32	-35.38	, botek	Aupore
	2472.60	Voores	-48.33	9.32	-39.01	<-13.00	PASS
128	3296.80	ek V Anbore	-52.67	12.48	-40.19	ok Aria	
128 Anb	1648.40	Horizontal	-42.49	5.32	-37.17	pole Yu	botek
	2472.60	H	-49.96	9.26	-40.70	<-13.00	PASS
	3296.80	HOK HOK	-54.11	12.49	-41.62	Anboten	
Aupotek	1673.20	Vertical	-39.36	5.33	-34.03	Anboren	Vupo
	2509.80	V	-46.90	9.16	-37.74	<-13.00	PASS
Anv	3346.40	VAnbo	-51.49	12.49	-39.00	otek Ant	
190	1673.20	Horizontal	-40.87	5.34	-35.53	-orek	nbotek
	2509.80	nbotek P	-48.63	9.26	-39.37	<-13.00	PASS
	3346.40	nbHk	-53.03	12.68	-40.35	Anbu	
Anborek	1697.60	Vertical	-37.29	5.56	-31.73	Aupo.	r 2000
	2546.40	V shore	-44.93	9.28	-35.65	<-13.00	PASS
251	3395.20	V V	-49.66	12.65	-37.01	otek Anb	
251" An	1697.60	Horizontal	-40.40	5.67	-34.73	upotek p	upor
	2546.40	inbotes H	-47.97	9.36	-38.61	<-13.00	PASS
	3395.20	Anbores H	-52.40	12.69	-39.71	Ar. hotek	

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. The emission levels of not record in the report are very lower than the limit and not show in test report.







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			GPR	S1900			
	Fraguenav		Spurious	Emission		Limit (dBm)	
Channel	Frequency (MHz)	Polarization	Reading (dBm)	Factor (dB)	Level (dBm)		Result
Anbore	3700.40	Vertical	-46.02	13.45	-32.57	K 200	ek ant
	5550.60	tek V nobo	-53.76	16.61	-37.15	<-13.00	PASS
E40 Ant	7400.80	Nek V	-57.65	17.92	-39.73	aboten Ar	
512	3700.40	Horizontal	-47.85	13.45	-34.40	Anboren	Anbo
	5550.60	Anbe H	-55.48	16.61	-38.87	<-13.00	PASS
	7400.80	MUH POK	-59.27	17.92	-41.35	Anborek	
Ann	3760.00	Vertical	-44.54	13.49	-31.05	lek Vupos	Sk Vup
	5640.00	lek A Vupo	-52.41	16.69	-35.72	<-13.00	PASS
Anb	7520.00	botek V An	-56.45	18.06	-38.39	loo kek	
661	3760.00	Horizontal	-46.63	13.49	-33.14	Anbo	aborek
	5640.00	Hek	-54.37	16.69	-37.68	<-13.00	PASS
	7520.00	Hotek	-58.29	18.06	-40.23	Anbore	
Anborek	3819.60	Vertical	-42.38	13.12	-29.26	sk Aupon	bu.
	5729.40	V	-51.07	17.03	-34.04	<-13.00	PASS
, A	7639.20	pore V Am	-54.90	18.09	-36.81	abotek	
810	3819.60	Horizontal	-44.77	13.12	-31.65	Anbotek	Anboren
	5729.40	AnbHek	-53.31	17.03	-36.28	<-13.00	PASS
	7639.20	Hootek	-57.01	18.09	-38.92	Ann	

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. The emission levels of not record in the report are very lower than the limit and not show in test report.





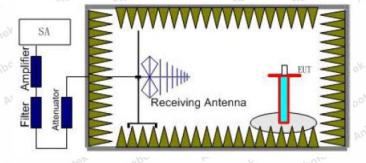
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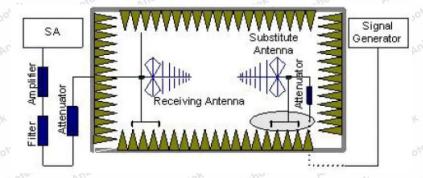
10. ERP and EIRP

10.1. Test Standard and Limit

Ŋ.	Applicable Standard:	Part 2.1046	Anbore	Ann	anboiek	Anbo	hotek
		Part 22.913(a)					Ann
O'V		Part 24.232(c)					Anbo
o.	Limit:	GSM850: 7W (38.4	5dBm) ERP	ek Anbore	Anb	k abotel	k bu
		PCS1900: 2W (33d	Bm) EIRP				otek

10.2. Test Setup





10.3. Test Procedure

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- 2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.

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Receiver or Spectrum set as follow:

Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto

- Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- 7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

Pe = Ps(dBm) - cable loss (dB) + antenna gain (dBd)

where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the

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equivalent dipole-referenced gain can be determined from:

gain (dBd) = gain (dBi) - 2.15 dB.

If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

10.4. Test Data

Pass

Mode	Channal	ERP	(dBm)	Limit (dDm)	Popult
Mode	Channel	Vertical	Horizontal	Limit (dBm)	Result
otek Ant	128	31.94	28.96	hotek Anbote	Anbo
GPRS850	nbotek 190 Anbo	30.94	27.91	<38.45	PASS
Anbo	251	31.29	28.15	And	upotek Aupor
Anbo	128	27.21	25.59	And	Anbotek Ant
EGPRS850	190	25.87	24.86	<38.45	PASS
hbotek Anbo.	251	25.65	24.62	otek Anbo.	k aborek

Mode	Channel	EIRP	(dBm)	Limit (dDms)	Decult	
Wode		Vertical Horiz		Limit (dBm)	Result	
ok potek	512	27.76	20.65	A. botek	Anboret Ant	
GPRS1900	661	27.84	20.99	<33.00	PASS	
Thore, And	810	27.56	20.69		Anbotek	
Aupole, Aug	512	22.96	18.27	pore. And	tek Anbotek	
EGPRS1900	661	23.41	18.45	<33.00	PASS	
Anbotek	810	23.49	18.50	Anbotek A	notek anb	





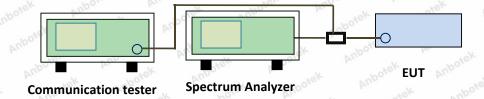
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11. Frequency stability VS Voltage measurement

11.1. Test Standard and Limit

Applicable Standard:	Part 2.1055(d)(1)(2)	Anbores A	"Lek	abotek	Aupo	hotel.
	Part 22.355					Ann
	Part 24.235	k. botek	Anbore	Annatek	Anbotek	Aup,
Limit:	2.5ppm	A. Diek	Anboten	Aup	ek aborel	F PS

11.2. Test Setup



11.3. Test Procedure

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber at 25°C.
- The power supply voltage to the EUT was varied ±15% of the nominal value measured at the input to the EUT.
- 5. Record the maximum frequency change.

11.4. Test Data

Pass

Please refer to Appendix F of the Appendix Test Data.







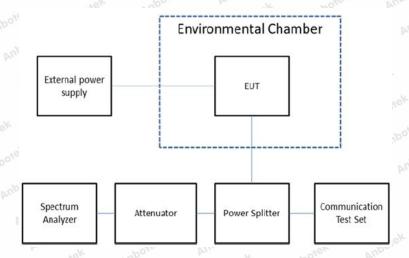
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12. Frequency stability VS Temperature measurement

12.1. Test Standard and Limit

Dr. F.	V. O.	No	NO.	Dr.	750.	400
Applicable Standard:	Part 2.1055(a)(1)(b)	Anboro	Arra	Anbotek	Anbo	botek
	Part 22.355					Vien
	Part 24.235	botek		Arrangek	Anbotek	Aup
Limit:	2.5ppm	h by	tek Anbote	AUDO	ak abore	SK bu

12.2. Test Setup



12.3. Test Procedure

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber.
- 4. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
- Repeat step 4 measure with 10°C increased per stage until the highest temperature of +50°C reached.

12.4. Test Data

Pass

Please refer to Appendix G of the Appendix Test Data.







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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_Licensed

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

