

TEST REPORT

FCC ID: 2AMKZ-G05

Applicant : Shenzhen CanTrack Technology Co.,Ltd

Address : 5th Floor A2 Bldg, Jindida Technology Park, Langkou Industrial Area,

Dalang, LongHua New District Shenzhen, GuangDong, China.

Equipment Under Test(EUT):

Name : GPS TRACKER

Model : G05

In Accordance with: FCC PART 2; FCC PART 22H; FCC PART 24E

Report No : T1870968 01

Date of Test: June 9, 2017-June 16, 2017

Date of Issue: June 17, 2017

Test Result : PASS

Test Result: PASS

In the configuration tested, the EUT complied with the standards specified above

Authorized Signature

(Mark Zhu)

General Manager

The manufacture should ensure that all the 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 Shenzhen Alpha Product Testing Co., Ltd. Or test done by Shenzhen Alpha Product Testing Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Alpha Product Testing Co., Ltd. Approvals in writing.

Contents

1.	Gen	eral Information	5
	1.1.	Description of Device (EUT)	5
	1.2.	Test Lab information	5
2.	Sum	nmary of test	6
	2.1.	Summary of test result	6
	2.2.	Assistant equipment used for test	7
	2.3.	Test mode	7
	2.4.	Test Environment Conditions	7
	2.5.	Measurement Uncertainty (95% confidence levels, k=2)	7
	2.6.	Test Equipment	8
3.	Con	ducted Output power	9
	3.1.	Block Diagram of Test Setup	9
	3.2.	Limit	9
	3.3.	Test Procedure	9
	3.4.	Test Result	9
4.	Rad	iated Output power	10
	4.1.	Block Diagram of Test Setup	10
	4.2.	Limit	10
	4.3.	Test Procedure	10
	4.4.	Test Result	11
5.	Pea	k-to-Average Ratio	12
	5.1.	Block Diagram of Test Setup	12
	5.2.	Limit	12
	5.3.	Test Procedure	12
	5.4.	Test Result	12
6.	Occi	upied Bandwidth	13
	6.1.	B lock Diagram of Test Setup	13
	6.2.	Limit	13
	6.3.	Test Procedure	13
	6.4.	Test Result	14
	6.5.	Orginal test data	14
7.	Freq	quency stability	18
	7.1.	Block Diagram of Test Setup	18
	7.2.	Limit	18
	7.3.	Test Procedure	18
	7.4.	Test Result	19
8.	Con	ducted spurious emissions	20
	8.1.	Block Diagram of Test Setup	20
	8.2.	Limit	20
	8.3.	Test Procedure	20
	8.4.	Test Result	20
9.	Rad	iated Spurious emissions	26
	9.1.	Block Diagram of Test Setup	26

13.	Phot	os of EUT	35
12.	Test	setup photo	34
	11.4.	Test Result	33
	11.3.	Test Procedure	32
	11.2.	Limit	32
	11.1.	Block Diagram of Test Setup	32
11.	Powe	er line conducted emission	32
	10.4.	Test Result	30
	10.3.	Test Procedure	29
	10.2.	Limit	29
	10.1.	Block Diagram of Test Setup	29
10.	Band	l Edge Compliance	29
	9.4.	Test Result	27
	9.3.	Test Procedure	26
	9.2.	Limit	26

TEST REPORT DECLARATION

Applicant : Shenzhen CanTrack Technology Co.,Ltd Manufacturer : Shenzhen CanTrack Technology Co.,Ltd

EUT Description : GPS TRACKER

Date of issue....:

(A) Model No. : G05(B) Trademark : N/A

(C) Ratings Supply : DC 24V From DC Power (D)Test Voltage : DC 24V From DC Power

Measurement Standard Used:

FCC Rules and Regulations Part 22H &P22E, ANSI C63.4-2014

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the Part 22H &P22E limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature)......

Eric Huang
Project Engineer

Reak
Project Manager

May 27, 2017

1. General Information

1.1. Description of Device (EUT)

EUT : GPS TRACKER

Trade Name : N/A

Model No. : G05 DIFF. : N/A

Power supply : DC 24V From DC Power

Radio Technology : GSM 850: 824.2MHz—848.8MHz

GSM 1900: 1850.2MHz-1909.8MHz

GSM Power class : GSM 850: Class 4

GSM 1900: Class 1

Operation frequency : GSM 850: 824.2MHz—848.8MHz

GSM 1900: 1850.2MHz—1909.8MHz

Modulation : GSM: GMSK

Antenna Type : PCB Antenna, max gain 1 dBi for GSM850

PCB Antenna, max gain 0.85 dBi for GSM1900

Applicant : Shenzhen CanTrack Technology Co.,Ltd

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Manufacturer : Shenzhen CanTrack Technology Co.,Ltd

Address : 5th Floor A2 Bldg, Jindida Technology Park, Langkou Industrial Area,

Dalang, LongHua New District Shenzhen, GuangDong, China.

1.2. Test Lab information

Shenzhen Alpha Product Testing Co., Ltd

Building B, East Area of Nanchang Second, Industrial Zone, Gushu 2nd Road,

Bao'an, Shenzhen, China

August 11, 2014 File on Federal Communication Commission

Registration Number: 203110

July 18, 2014 Certificated by IC Registration Number: 12135A

2. Summary of test

2.1. Summary of test result

Description of Test Item	Standard	Results	
	FCC PART 2: 2.1046		
Conducted Output power	FCC PART 22H: 22.913 (a)	PASS	
	FCC PART 24E: 24.232 (c)		
	FCC PART 22H:22.913 (a)	DACC	
Radiated Output power(erp/eirp)	FCC PART 24E:24.232(c)	PASS	
	FCC PART 2: 2.1049		
Occupied bandwidth	FCC PART 22H: 22.917 (b)	PASS	
	FCC PART 24E: 24.238 (b)		
	FCC PART 2: 2.1055		
Frequency stability	FCC PART 22H: 22.355	PASS	
	FCC PART 24E: 24.235		
Conducted enurious emission	FCC PART 2: 2.1051		
Conducted spurious emission	FCC PART 22H: 22.917	PASS	
(Antenna terminal)	FCC PART 24E: 24.238		
	FCC PART 2: 2.1053		
Radiated spurious emissions	FCC PART 22H: 22.917	PASS	
	FCC PART 24E: 24.238		
D 1 1 1:	FCC PART 22H: 22.917 (b)	DACC	
Band edge compliance	FCC PART 24E: 24.238 (b)	PASS	
Damen Line Conducted Emission Test	FCC Part 15: 15.207	PASS	
Power Line Conducted Emission Test	ANSI C63.4: 2014	rass	

2.2. Assistant equipment used for test

Description		DC Power
Manufacturer	:	JUNKE
Model No.	:	JK12010S

2.3. Test mode

During all testing, EUT is in link mode with base station emulator at maximum power level in each test mode and channel as below:

Mode	Channel	Frequency(MHz)	
	128	824.2	
GSM 850	190	836.6	
	251	848.8	
	512	1850.2	
PCS 1900	661	1880.0	
	810	1909.8	

2.4. Test Environment Conditions

Temperature range	21-25℃
Humidity range	40-75%
Pressure range	86-106kPa

2.5. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.71dB	
Uncertainty for Radiation Emission test in 3m chamber	2.13 dB	Polarize: V
(below 30MHz)	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber	3.90dB	Polarize: V
(30MHz to 1GHz)	3.92dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber	4.28dB	Polarize: H
(1GHz to 25GHz)	4.26dB	Polarize: V
Uncertainty for radio frequency	1×10-9	
Uncertainty for conducted RF Power	0.16dB	
Uncertainty for temperature	0.2℃	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

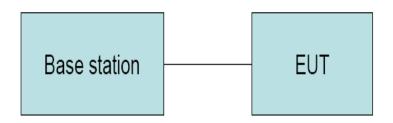
2.6. Test Equipment

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	2016.09.29	1Year
Spectrum analyzer	Agilent	E4407B	MY46185649	2016.09.29	1Year
Receiver	R&S	ESCI	1166.5950K0 3-1011	2016.09.29	1Year
Receiver	R&S	ESCI	101202	2016.09.29	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-4 38	2016.09.29	1Year
Horn Antenna	EMCO	3115	640201028-06	2016.09.29	1Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2016.09.29	1Year
Cable	Resenberger	N/A	No.1	2016.09.29	1Year
Cable	SCHWARZBEC K	N/A	No.2	2016.09.29	1Year
Cable	SCHWARZBEC K	N/A	No.3	2016.09.29	1Year
Pre-amplifier	Schwarzbeck	BBV9743	9743-019	2016.09.29	1Year
Pre-amplifier	R&S	AFS33-180026 50-30-8P-44	SEL0080	2016.09.29	1Year
Base station	Agilent	E5515C	GB44300243	2016.09.29	1 Year
Temperature controller	Terchy	MHQ	120	2016.09.29	1Year
Power divider	Anritsu	K240C	020346	2016.09.29	1 Year
Signal Generator	HP	83732B	VS3449051	2016.09.29	1 Year
Power Meter	Anritsu	ML2487A	6K00001491	2016.09.29	1Year
Power sensor	Anritsu	ML2491A	32516	2016.09.29	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2016.09.29	1Year
L.I.S.N.#2	ROHDE&SCHW ARZ	ENV216	101043	2016.09.29	1 Year

Page 9 of 40 Report No.: T1870968 01

3. Conducted Output power

3.1. Block Diagram of Test Setup



3.2. Limit

Cellular Telephone 850MHz	PCS 1900MHz
38.5dBm(ERP)	33dBm(EIRP)

3.3. Test Procedure

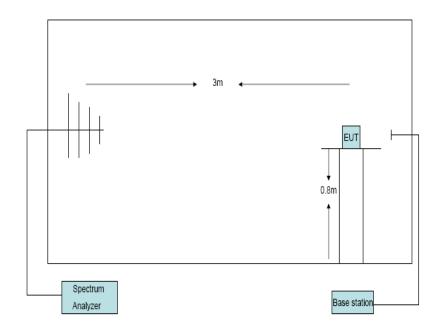
- (1) The EUT's RF output port was connected to base station.
- (2) A call is set up by the SS according to the generic call set up procedure
- (3) Set EUT at maximum power level through base station by power level command
- (4) Measure the maximum output power of EUT at each frequency band and mode by base station.

3.4. Test Result

EUT: GPS TRACKER M/N:G05									
Power: DC 24V From DC Power									
Ambient	Ambient Temperature:23°C Relative Humidity: 55%								
Test date:	2017-06-12	To	est site: RF s	ite Test	ed by: Reak				
Conclusio	on: PASS	•							
Mode	Channel		PK	Output Pow	ver(dBm)		Limit		
		GSM85	0 GPRS	GPRS	GPRS	GPRS	(dBm)		
			-1 Slot	-2 Slot	-3 Slot	-4 Slot			
GSM	128	33.17	33.39	32.19	30.29	29.14	38.5		
850	190	33.37	32.66	32.09	30.58	29.23	38.5		
650	251	33.06	33.63	32.55	30.94	30.07	38.5		
PCS	512	30.05	29.34	28.65	26.77	25.68	33		
1900	661	30.32	29.96	28.86	27.15	25.86	33		
1900	810	30.56	29.91	29.39	26.93	26.44	33		

4. Radiated Output power

4.1. Block Diagram of Test Setup



4.2. Limit

Cellular Telephone 850MHz	PCS 1900MHz
38.5dBm(ERP)	33dBm(EIRP)

4.3. Test Procedure

- The EUT was placed on an non-conductive rotating platform with 0.8 meter height in an anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RBW= 3MHz,VBW= 3MHz and peak detector settings.
- 2. During the measurement, the EUT was enforced in maximum power and linked with a base station. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations
- 3. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (for frequency lelow 1GHz) or Horn antenna(for frequency above 1GHz) at same location with same polarize of reveiver antenna and then a known power of each measure frequency from

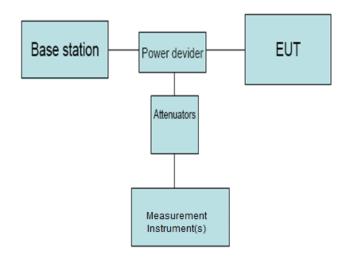
S.G. was applied into the dipole antenna or Horn antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain –Substitution antenna Loss(only for Dipole antenna) - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP= LVL + Correction factor and ERP = EIRP – 2.15

4.4. Test Result

ELIT. CDC TD A CVEI	M/NI-CO								
EUT: GPS TRACKER M/N:G05									
Power: DC 24V From	Power: DC 24V From DC Power								
Ambient Temperature	:23°C		Relative Humidity:	55%					
Test date: 2017-06-12			Test site: RF site	Tested by: Re	ak				
Conclusion: PASS									
Mode	Channel	LVL	Correction	ERP	EIRP				
		(dBm)	factor(dB)	(dBm)	(dBm)				
	128	4.5	26.74	29.09	/				
GSM 850	190	4.5	27.08	29.43	/				
	251	4.5	27.36	29.71	/				
	512	4.5	22.76	/	27.26				
PCS 1900	661	4.5	22.74	/	27.24				
	810	4.5	22.87	/	27.37				
ERP=LVL + Correction factor -2.15									
EIRP=LVL+ Correction factor									

5. Peak-to-Average Ratio

5.1. Block Diagram of Test Setup



5.2. Limit

In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

5.3. Test Procedure

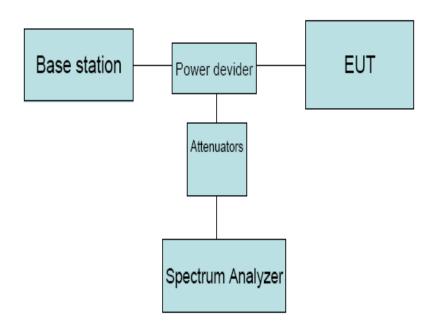
The EUT' RF output port was connected to Measurement Instrument(s) and Base Station via power divider, and then measure the test data.

5.4. Test Result

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
	GSM	LCH	0.43	13	PASS
		MCH	0.47	13	PASS
GSM1900		НСН	0.41	13	PASS
		LCH	3.31	13	PASS
	GPRS	MCH	3.17	13	PASS
		НСН	3.65	13	PASS

6. Occupied Bandwidth

6.1. B lock Diagram of Test Setup



6.2. Limit

N/A

6.3. Test Procedure

- 1. The EUT' RF output port was connected to Spectrum Analyzer and Base Station via power divider.
- 2. Spectrum analyzer's occupied bandwidth measure function was used to measure 99% bandwidth and -26dBc bandwidth

.

6.4. Test Result

EUT: GPS TRACKER M/N:G05						
Power: DC 24V From DC Power						
Ambient Temperature:23	3℃	Relative Humidity: 55%				
Test date: 2017-06-12		Test site: RF site	Tested by: Reak			
Mode	Channel	99% bandwidth	-26dBc bandwidth			
		(KHz)	(KHz)			
	128	244.35	306.7			
GSM 850	190	247.82	316.6			
	251	245.33	317.5			
	512	247.33	312.2			
PCS 1900	661	251.55	316.3			
	810	248.22	321.3			

6.5. Orginal test data

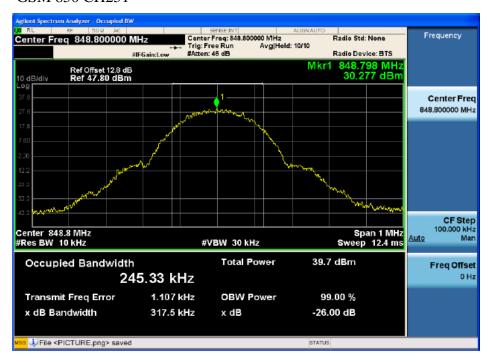
GSM 850 CH128



GSM 850 CH190



GSM 850 CH251



PCS 1900 CH512



PCS 1900 CH661

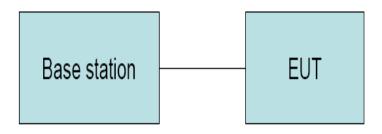


PCS 1900 CH810



7. Frequency stability

7.1. Block Diagram of Test Setup



7.2. Limit

Cellular Telephone 850MHz	PCS 1900MHz	
±2.5 ppm	Must stay within the authorized frequency block	

7.3. Test Procedure

Test Procedures for Temperature Variation:

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- 2. With power OFF, the temperature was decreased to $-10\,^{\circ}\mathrm{C}$ and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10 °C step up to 45 °C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
- 4. If the EUT can not be turned on at $-10 \, \text{C}$, the testing lowest temperature will be raised in $10 \, \text{C}$ step until the EUT can be turned on.

Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at $25\pm5\,^{\circ}\mathrm{C}$ and connected with the base station.
- 2. The power supply voltage to the EUT was varied from DC 27.6V to 10.2V
- 3. The variation in frequency was measured for the worst case.

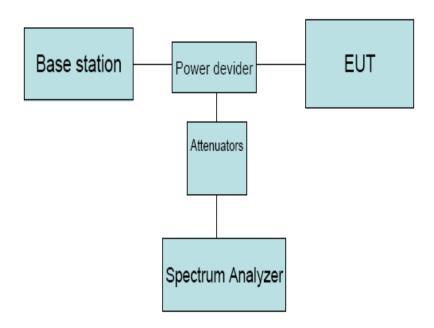
7.4. Test Result

EUT: GPS TRACKER	M/N:G05					
Power: DC 24V From I	OC Power					
Ambient Temperature:2	23℃	Relative Humidity: 60%				
Test date: 2017-06-12		Test site: RF site	Tested by: Reak			
Conclusion: PASS						
Mode	Voltage	Frequency error	frequency error			
	(V)	(Hz)	(ppm)			
	27.6V	17.92	0.02			
GSM 850 CH 190	24.0V	-17.63	-0.02			
	18.5V	15.43	0.02			
	14.4V	-16.07	-0.02			
	10.2V	-15.68	-0.02			
	27.6V	-25.49	-0.01			
PCS 1900	24.0V	37.10	0.02			
	18.5V	-29.40	-0.02			
CH661	14.4V	31.97	0.02			
	10.2V	-26.92	-0.01			

Mode	Temperature	Frequency error	frequency error
	(℃)	(Hz)	(ppm)
	0	21.31	0.03
	10	-15.49	-0.02
GSM 850	20	18.90	0.02
CH190	30	-12.05	-0.01
	40	-12.37	-0.01
	50	-20.97	-0.03
	0	38.01	0.02
	10	-24.15	-0.01
PCS 1900	20	32.20	0.02
CH661	30	-23.51	-0.01
	40	21.85	0.01
	50	-15.95	-0.01

8. Conducted spurious emissions

8.1. Block Diagram of Test Setup



8.2. Limit

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least $(43 + 10 \log P) dB$, in this case, -13dBm.

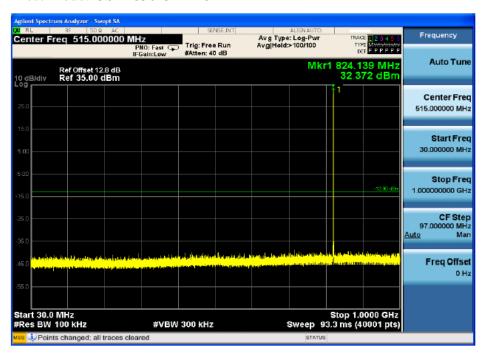
8.3. Test Procedure

- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The low, middle and high channels of each band and mode's spurious emissions for 30MHz to 10th Harmonic were measured by Spectrum analyzer.

8.4. Test Result

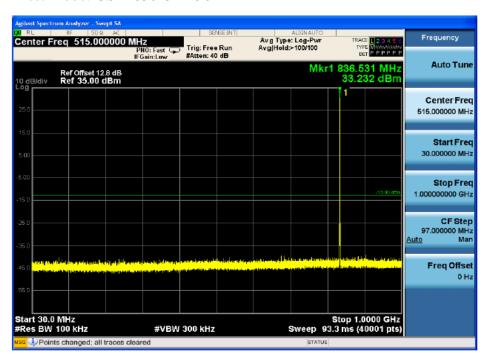
PASS

Test Mode: GSM 850 CH 128



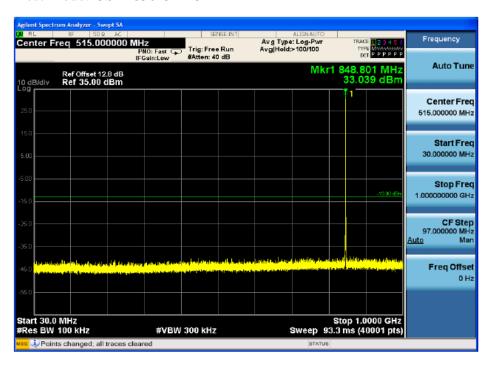


Test Mode: GSM 850 CH 190





Test Mode: GSM 850 CH 251





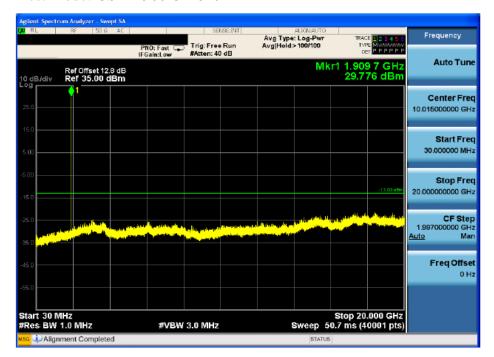
Test Mode: GSM 1900 CH 512



Test Mode: GSM 1900 CH 661

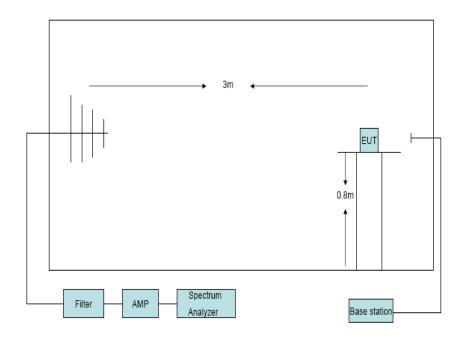


Test Mode: GSM 1900 CH 810



9. Radiated Spurious emissions

9.1. Block Diagram of Test Setup



9.2. Limit

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least $(43 + 10 \log P) dB$, in this case, -13dBm.

9.3. Test Procedure

- The EUT was placed on an non-conductive rotating platform with 0.8 meter height in an anechoic chamber. The radiated spurious emissions from 30MHz to 10th harmonious of fundamental frequency were measured at 3m with a test antenna and a spectrum analyzer with RBW= 1MHz,VBW= 1MHz ,peak detector settings.
- 2. During the measurement, the EUT was enforced in maximum power and linked with a base station. All the spurious emissions (record as LVL) at 3m were measured by rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
- 3. Final spurious emissions levels were measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (for frequency below 1GHz) or Horn antenna (for frequency above 1GHz) at same location with same polarize of receiver antenna and then a known power of each measure frequency from S.G. was

applied into the dipole antenna or Horn antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain -Substitution antenna Loss(only for Dipole antenna) - Analyzer reading. Then final

spurious emissions were calculated with the correction factor, EIRP= LVL + Correction factor and ERP = EIRP -2.15

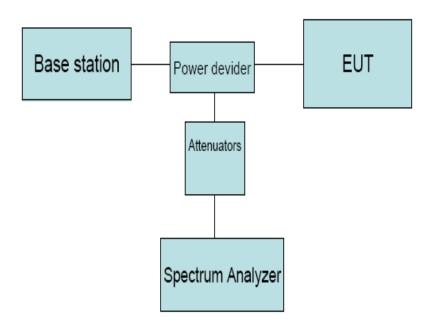
9.4. Test Result

EUT:GPS TRACKER M/N:G05							
Power: DC 24V From DC Power							
Test Date: 2017-06-12		Test site: RF Chamber		Tested by: Re	Tested by: Reak		
Ambient Temperature: 24°C Relative Humidity: 60%							
Conclusion: PA	Conclusion: PASS						
			Test result				
Test Mode: G	SM 850 CH1	28					
Frequency (MHz)	Antenna polarization	LVL (dBm)	Correction factor(dB)	Result (ERP)(dBm)	Limit (dBm)	Margin (dB)	
537.31	Н	-56.90	-6.53	-63.43	-13	50.43	
537.31	V	-59.73	-6.53	-66.26	-13	53.26	
1648.4	Н	-55.29	11.5	-43.79	-13	30.79	
1648.4	V	-44.98	10.56	-34.42	-13	21.42	
Test Mode: GSM 850 CH190							
1673.2	Н	-55.12	10.94	-44.18	-13	31.18	
1673.2	V	-50.89	10.9	-39.99	-13	26.99	
Test mode: GSM 850 CH251							
1697.6	Н	-47.58	11.67	-35.91	-13	22.91	
1697.6	V	-43.35	11.13	-32.22	-13	19.22	

F	GSM 1900 CH	1 371	C	D 14	T :	M
Frequency	Antenna	LVL	Correction	Result	Limit	Margin
(MHz)	polarization	(dBm)	factor(dB)	(EIRP)(dBm)	(dBm)	(dB)
537.31	Н	-57.47	-6.53	-64	-13	51
537.31	V	-56.37	-6.53	-62.9	-13	49.9
3700.4	Н	-53.09	8.57	-44.52	-13	31.52
3700.4	V	-52.17	8.37	-43.8	-13	30.8
Test Mode: GSM 1900 CH661						
3760	Н	-54.92	8.75	-46.17	-13	33.17
3760	V	-53.16	8.55	-44.61	-13	31.61
Test mode: GSM 1900 CH810						
3819.6	Н	-54.99	8.94	-46.05	-13	33.05
3819.6	V	-52.52	8.72	-43.8	-13	30.8

10. Band Edge Compliance

10.1.Block Diagram of Test Setup



10.2.Limit

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least $(43 + 10 \log P) dB$, in this case, -13dBm.

10.3. Test Procedure

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The band edges of low and high channels for the highest RF powers were measured.

10.4. Test Result

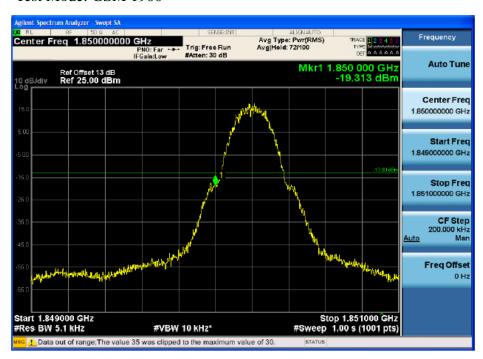
PASS

Test Mode: GSM 850





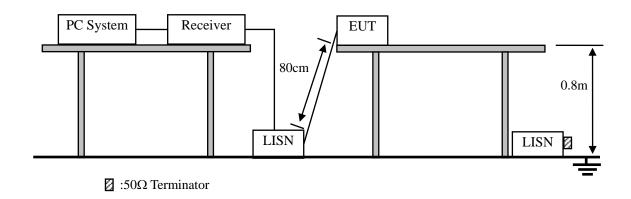
Test Mode: GSM 1900





11. Power line conducted emission

11.1.Block Diagram of Test Setup



11.2.Limit

	Maximum RF Line Voltage			
Frequency	Quasi-Peak Level	Average Level		
	$dB(\mu V)$	$dB(\mu V)$		
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*		
500kHz ~ 5MHz	56	46		
5MHz ~ 30MHz	60	50		

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

11.3.Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N1), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 2014 and ANSI C64.10:2009 on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

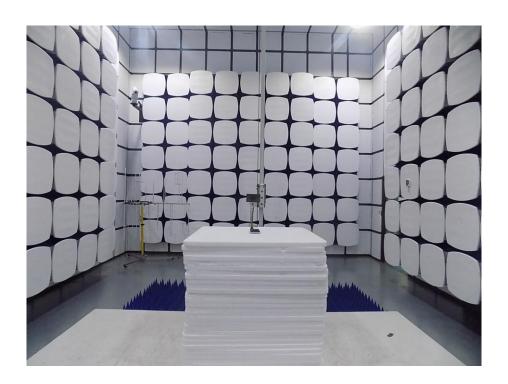
11.4.Test Result

Not Applicable.

12. Test setup photo

Photographs-Radiated Emission Test Setup in Chamber





13.Photos of EUT





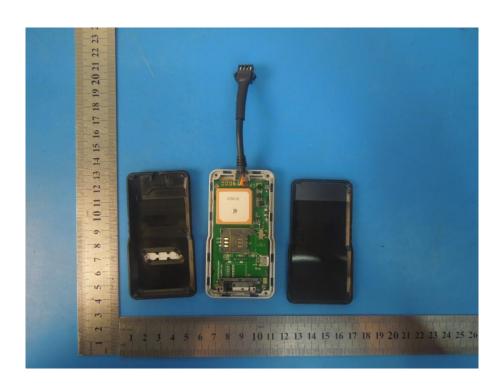


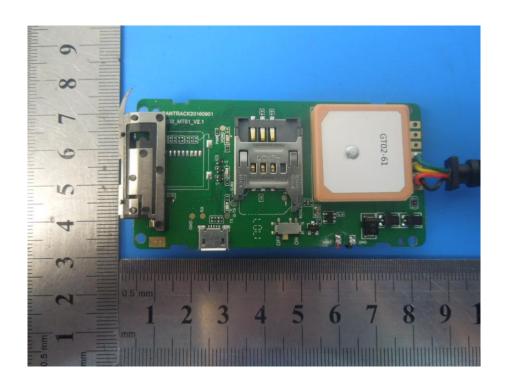


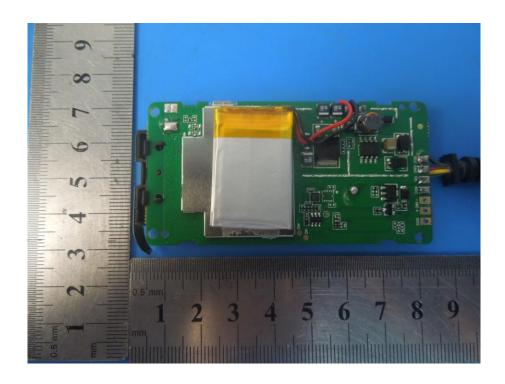


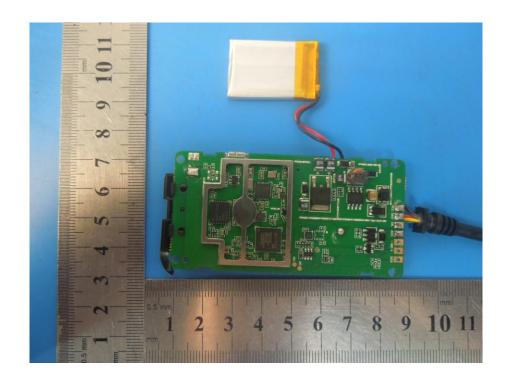


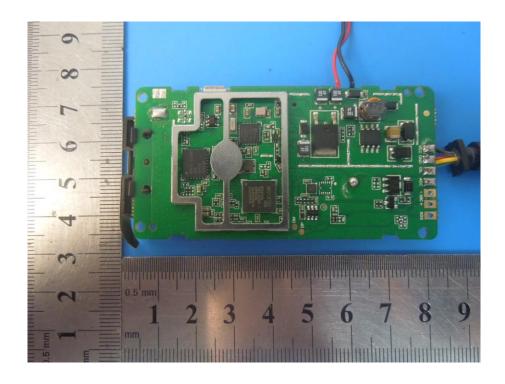












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