FCC PART 15.247
TEST AND MEASUREMENT REPORT

For

AnyDATA Corporation

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FCC ID: P4M-ACT210

Report Type:	**Product Type:**
Original Report	CDMA Vehicle Tracker with Bluetooth Function

Prepared By:	Wei Sun
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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1210105-247	Original Report	2012-11-27

1 General Description

1.1 Product Description for Equipment Under Test (EUT)

This test and measurement report was prepared on behalf of *AnyDATA Corporation*, and their product FCC ID: *P4M-ACT210*, model: *ACT210* or the "EUT" as referred on this report is a vehicle tracker with Bluetooth function. Model ACT210 is electronically identical to model ACT231 (FCC ID: P4M-ACT231). The difference is that the RKE transmitter board is removed from model ACT231.

1.2 Mechanical Description of EUT

The "EUT" measures approximately *80 mm (L) x 45mm (W) x 22mm (H)*, and weighs approximately *66.5*g.

The test data gathered are from typical production sample, serial number: 201209294817719 for radiated test and 201209294817718 for conducted test provided by the manufacturer.

1.3 Objective

This report is prepared on behalf of *AnyDATA Corporation* in accordance with Part 2, Subpart J, and Part 15, Subparts B and C of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15.247 rules for Radiated Spurious Emissions. Other test items related to Part 15.247 can be referred to FCC ID: P4M-ACT231.

1.4 Related Submittal(s)/Grant(s)

FCC Part 22H/24E, report No.: R1210105-2224 with FCC ID: P4M-ACT210.

1.5 Test Methodology

All measurements contained in this report were conducted in accordance with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

1.6 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR16-4-2:2003, The Treatment of Uncertainty in EMC Measurements, the values ranging from $\pm$2.0 dB for Conducted Emissions tests and $\pm$4.0 dB for Radiated Emissions tests are the most accurate estimates pertaining to uncertainty of EMC measurements at BACL Corp.

1.7 Test Facility

The test site used by BACL Corp. to collect radiated and conducted emissions measurement data is located at its facility in Sunnyvale, California, USA.

The test site at BACL Corp. has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997, and Article 8 of the VCCI regulations on December 25, 1997. The test site also complies with the test methods and procedures set forth in CISPR 22:2008 §10.4 for measurements below 1 GHz and §10.6 for measurements above 1 GHz as well as ANSI C63.4-2003, ANSI C63.4-2009, TIA/EIA-603 & CISPR 24:2010.

The Federal Communications Commission and Voluntary Control Council for Interference have the reports on file and they are listed under FCC registration number: 90464 and VCCI Registration No.: A-0027. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL Corp. is an American Association for laboratory Accreditation (A2LA) accredited laboratory (Lab Code 3297-02). The current scope of accreditations can be found at

http://www.a2la.org/scopepdf/3297-02.pdf?CFID=1132286&CFTOKEN=e42a3240dac3f6ba-6DE17DCB-1851-9E57-477422F667031258&jsessionid=8430d44f1f47cf2996124343c704b367816b

2 System Test Configuration

2.1 Justification

The EUT was configured for testing according to ANSI C63.4-2009.

The EUT was tested in a testing mode to represent worst-case results during the final qualification test.

Radio Mode	Modulation	Frequency		
		Low CH (MHz)	Mid CH (MHz)	High CH (MHz)
Bluetooth	GFSK	2402	2441	2480
Bluetooth	QPSK	2402	2441	2480
Bluetooth	8PSK	2402	2441	2480

2.2 EUT Exercise Software

The test utility used was AC21SP01 was provided by AnyDATA Corporation and was verified by Wei Sun to comply with the standard requirements being tested against.

2.3 Special Equipment

There were no special accessories were required, included, or intended for use with EUT during these tests.

2.4 Equipment Modifications

No modifications were made to the EUT.

2.5 Local Support Equipment

Manufacturer	Description	Model No.	Serial No.
Dell	Laptop	PP11L	CN-0D4571-48643-57F-7162

2.6 EUT Internal Configuration Details

Manufacturers	Descriptions	Models	Serial Numbers
AnyDATA Corporation	STN (Power) Board	ACT231 STN V1.1	SL100202
AnyDATA Corporation	CDMA and Bluetooth Board	ACT231 MAIN V1.0	2594V-0

2.7 Interface Ports and Cabling

Cable Description	Length (m)	From	To
Power Cable	< 3	EUT	DC/AC
USB Cable	< 3	EUT	Laptop
RF Cable	1	EUT	PSA

2.8 Power Supply List and Details

Manufacturer	Description	Model	Serial Number
HON-KWANG	AC/DC Adapter	HK-Q106-A12	-

3 Summary of Test Results

Results reported relate only to the product tested.

FCC Rules	Description of Test	Results
§15.247(i), §2.1091	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	N/A[1]
§15.209	Spurious Emissions at Antenna Port	N/A[1]
§15.205	Restricted Bands	Compliant
§15.209, §15.247(d)	Radiated Spurious Emissions	Compliant
§15.247 (a)(2)	Hopping Channel Bandwidth	N/A[1]
§15.247(b)(3)	Maximum Peak Output Power	N/A[1]
§15.247(a) (1)	Hopping Channel Separation	N/A[1]
§15.247(a)(1)(iii)	Number of Hopping Channels	N/A[1]
§15.247(a)(1)(iii)	Dwell Time	N/A[1]
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	N/A[1]
§15.247 (e)	Power Spectral Density	NA[2]

Note 1: N/A[1] shares with FCC ID: P4M-ACT231.
Note 2: N/A[2] EUT is FHSS device; therefore no PSD measurement was required.

4 FCC §15.247 (i) & §2.1091 - RF Exposure

4.1 Applicable Standard

According to FCC §15.247(i), §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Averaging Time (minutes)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*($180/f^2$)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz
* = Plane-wave equivalent power density

4.2 MPE Prediction

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = power density
P = power input to antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

4.3 MPE Results

Maximum peak output power at antenna input terminal (dBm):	9.03
Maximum peak output power at antenna input terminal (mW):	8.00
Prediction distance (cm):	20
Prediction frequency (MHz):	2480
Maximum Antenna Gain, typical (dBi):	-5.0
Maximum Antenna Gain (numeric):	0.32
Power density of prediction frequency at 20 cm (mW/cm^2):	0.0005
MPE limit for uncontrolled exposure at prediction frequency (mW/cm^2):	1.0
Power density of prediction frequency at 20 cm (W/m^2):	0.005
MPE limit for uncontrolled exposure at prediction frequency (W/m^2):	10.0

The device is compliant with the requirement MPE limit for uncontrolled exposure.

5 FCC §15.203 – Antenna Requirements

5.1 Applicable Standard

According to FCC Part §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used.

When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer. Any antenna gain in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power before using.

5.2 Result

The EUT has maximum gain of -5.0 dBi antenna, which in accordance to sections FCC Part 15.203, is considered sufficient to comply with the provisions of these sections.

6 FCC §15.205, §15.209, §15.247(d) – Spurious Radiated Emissions

6.1 Applicable Standard

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1 MHz.

As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table

Frequency (MHz)	Field Strength (micro volts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 – 0.110	16.42 – 16.423	960 – 1240	4. 5 – 5. 15
0.495 – 0.505	16.69475 – 16.69525	1300 – 1427	5. 35 – 5. 46
2.1735 – 2.1905	25.5 – 25.67	1435 – 1626.5	7.25 – 7.75
4.125 – 4.128	37.5 – 38.25	1645.5 – 1646.5	8.025 – 8.5
4.17725 – 4.17775	73 – 74.6	1660 – 1710	9.0 – 9.2
4.20725 – 4.20775	74.8 – 75.2	1718.8 – 1722.2	9.3 – 9.5
6.215 – 6.218	108 – 121.94	2200 – 2300	10.6 – 12.7
6.26775 – 6.26825	123 – 138	2310 – 2390	13.25 – 13.4
6.31175 – 6.31225	149.9 – 150.05	2483.5 – 2500	14.47 – 14.5
8.291 – 8.294	156.52475 – 156.52525	2690 – 2900	15.35 – 16.2
8.362 – 8.366	156.7 – 156.9	3260 – 3267	17.7 – 21.4
8.37625 – 8.38675	162.0125 –167.17	3.332 – 3.339	22.01 – 23.12
8.41425 – 8.41475	167.72 – 173.2	3 3458 – 3 358	23.6 – 24.0
12.29 – 12.293	240 – 285	3.600 – 4.400	31.2 – 31.8
12.51975 – 12.52025	322 – 335.4		36.43 – 36.5
12.57675 – 12.57725	399.9 – 410		Above 38.6
13.36 – 13.41	608 – 614		

As per FCC §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

6.2 Test Setup

The radiated emissions tests were performed in the 5-meter Chamber, using the setup in accordance with ANSI C63.4-2009. The specification used was the FCC 15C limits.

The spacing between the peripherals was 10 centimeters.

External I/O cables were draped along the edge of the test table and bundle when necessary.

6.3 Test Procedure

For the radiated emissions test, the EUT host, and all support equipment power cords was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

The spectrum analyzer or receiver is set as:

Below 1000 MHz:

RBW = 100 kHz / VBW = 300 kHz / Sweep = Auto

Above 1000 MHz:

(1) Peak: RBW = 1MHz / VBW = 1MHz / Sweep = Auto
(2) Average: RBW = 1MHz / VBW = 10Hz / Sweep = Auto

6.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude (CA) is calculated by adding the Antenna Factor (AF), the Cable Loss (CL), the Attenuator Factor (Atten) and subtracting the Amplifier Gain (Ga) to the indicated Amplitude (Ai) reading. The basic equation is as follows:

CA = Ai + AF + CL + Atten – Ga

For example, the Corrected Amplitude (CA) of 40.3 dBuV/m = indicated Amplitude reading (Ai) 32.5 dBuV + Antenna Factor (AF) 23.5dB + Cable Loss (CL) 3.7 dB + Attenuator (Atten) 10 dB - Amplifier Gain (Ga) 29.4 dB

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the maximum limit. The equation for margin calculation is as follows:

Margin (dB) = Corrected Amplitude (dBuV/m) - Limit (dBuV/m)

6.5 Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Interval
Hewlett Packard	Pre-amplifier	8447D	2944A07030	2012-04-11	1 year
Rohde & Schwarz	EMI Test Receiver	ESCI 1166.5950K03	100044	2012-04-14	1 year
Sunol Science Corp	Combination Antenna	JB3	A020106-2	2012-08-15	1 year
Sunol Science Corp	System Controller	SC99V	122303-1	N/R	-
Sunol Science Corp	Combination Antenna	JB3	A020106-3	2012-06-18	1 year
HP	Pre-amplifier	8449B	3147A00400	2012-02-03	1 year
Agilent	Spectrum Analyzer	E4440A	MY44303352	2012-05-10	1 year
A.R.A Inc.	Horn antenna	DRG-1181A	1132	2012-01-04	1 year

Statement of Traceability: BACL *attests that all calibrations have been performed per the A2LA requirements, traceable to NIST.*

6.6 Test Environmental Conditions

Temperature:	24 °C
Relative Humidity:	49%
ATM Pressure:	101.9kPa

The testing was performed by Wei Sun on 2012-10-25 at 5 meters chamber 3.

6.7 Summary of Test Results

According to the data hereinafter, the EUT complied with the FCC Part 15C standard's radiated emissions limits, and had the worst margin of:

Bluetooth Worst mode: 8DPSK

Mode: Transmitting			
Margin (dB)	**Frequency (MHz)**	**Polarization (Horizontal/Vertical)**	**Channel, Range**
-6.02	2483.5	Horizontal	30 MHz – 25 GHz

Please refer to the following table for specific test result details

6.8 Radiated Emissions Test Results

Radiated Emission at 3 meters, 30 MHz – 25 GHz on the worst modulation: 8DPSK

Frequency (MHz)	S.A. Reading (dBµV)	Turntable Azimuth (degrees)	Test Antenna			Cable Loss (dB)	Pre-Amp. (dB)	Cord. Reading (dBµV/m)	FCC Part 15C		Comments
			Height (cm)	Polarity (H/V)	Factor (dB/m)				Limit (dBµV/m)	Margin (dB)	
Low Channel 2402 MHz, measured at 3 meters											
2402	73.45	217	100	V	28.53	3.12	0	105.1	-	-	Fund/Peak
2402	72.5	217	100	V	28.53	3.12	0	104.15	-	-	Fund/Ave
2402	75.35	323	102	H	28.53	3.12	0	107	-	-	Fund/Peak
2402	74.95	323	102	H	28.53	3.12	0	106.6	-	-	Fund/Ave
2390	28.12	0	100	V	28.53	3.12	0	59.77	74	-14.23	Spur/Peak
2390	27.39	0	100	H	28.53	3.12	0	59.04	74	-14.96	Spur/Peak
2390	15.57	0	100	V	28.53	3.12	0	47.22	54	-6.78	Spur/Ave
2390	15.17	0	100	H	28.53	3.12	0	46.82	54	-7.18	Spur/Ave
250	46.66	74	122	V	12.5	1.37	25.4	35.13	46	-10.87	Spur/QP
250	51.35	227	100	H	12.5	1.37	25.4	39.82	46	-6.18	Spur/QP
4804	43.55	201	119	V	33.59	4.56	27.78	53.92	74	-20.08	Harm/Peak
4804	23.17	201	119	V	33.59	4.56	27.78	33.54	54	-20.46	Harm/Ave
4804	40.05	333	131	H	33.59	4.56	27.78	50.42	74	-23.58	Harm/Peak
4804	19.74	333	131	H	33.59	4.56	27.78	30.11	54	-23.89	Harm/Ave
7206	34.25	0	100	V	38.65	5.49	27.59	50.8	83.56	-32.76	Harm/Peak
7206	20.18	0	100	V	38.65	5.49	27.59	36.73	82.66	-45.93	Harm/Ave
7206	34.09	0	100	H	38.65	5.49	27.59	50.64	86.19	-35.55	Harm/Peak
7206	20.21	0	100	H	38.65	5.49	27.59	36.76	85.33	-48.57	Harm/Ave
9608	32.61	0	100	V	38.54	6.54	27.05	50.64	83.56	-32.92	Harm/Peak
9608	19.35	0	100	V	38.54	6.54	27.05	37.38	82.66	-45.28	Harm/Ave
9608	32.57	0	100	H	38.54	6.54	27.05	50.6	86.19	-35.59	Harm/Peak
9608	19.29	0	100	H	38.54	6.54	27.05	37.32	85.33	-48.01	Harm/Ave

Frequency (MHz)	S.A. Reading (dBµV)	Turntable Azimuth (degrees)	Test Antenna			Cable Loss (dB)	Pre-Amp. (dB)	Cord. Reading (dBµV/m)	FCC Part 15C		Comments
			Height (cm)	Polarity (H/V)	Factor (dB/m)				Limit (dBµV/m)	Margin (dB)	
Middle channel 2441 MHz measured at 3 meters											
2441	73.38	219	100	V	28.53	3.25	0	105.16	-	-	Fund/Peak
2441	75.6	322	100	H	28.53	3.25	0	107.38	-	-	Fund/Ave
2441	72.48	219	100	V	28.53	3.25	0	104.26	-	-	Fund/Peak
2441	75.05	322	100	H	28.53	3.25	0	106.83	-	-	Fund/Ave
250	47.21	297	100	V	12.5	1.37	25.4	35.68	46	-10.32	Spur/Peak
250	50.39	244	103	H	12.5	1.37	25.4	38.86	46	-7.14	Spur/Peak
108.57	34.07	71	109	V	12.8	0.57	25.5	21.94	43.5	-21.56	Spur/Ave
108.57	31.58	278	100	H	12.8	0.57	25.5	19.45	43.5	-24.05	Spur/Ave
74.29	44.47	70	136	V	8.7	0.31	25.17	28.31	40	-11.69	Spur/QP
74.29	41.72	21	155	H	8.7	0.31	25.17	25.56	40	-14.44	Spur/QP
4882	42.54	241	104	V	33.59	4.54	27.67	53	74	-21	Harm/Peak
4882	21.91	241	104	V	33.59	4.54	27.67	32.37	54	-21.63	Harm/Ave
4882	44.58	345	100	H	33.59	4.54	27.67	55.04	74	-18.96	Harm/Peak
4882	25.27	345	100	H	33.59	4.54	27.67	35.73	54	-18.27	Harm/Ave
7323	34.73	0	100	V	38.33	5.57	27.51	51.12	74	-22.88	Harm/Peak
7323	20.25	0	100	V	38.33	5.57	27.51	36.64	54	-17.36	Harm/Ave
7323	34	0	100	H	38.33	5.57	27.51	50.39	74	-23.61	Harm/Peak
7323	20.11	0	100	H	38.33	5.57	27.51	36.5	54	-17.5	Harm/Ave
9764	32.29	0	100	V	38.15	6.62	26.98	50.08	85.16	-35.08	Harm/Peak
9764	18.34	0	100	V	38.15	6.62	26.98	36.13	84.26	-48.13	Harm/Ave
9764	32.10	0	100	H	38.15	6.62	26.98	49.89	87.38	-37.49	Harm/Peak
9764	17.99	0	100	H	38.15	6.62	26.98	35.78	86.83	-51.05	Harm/Ave

Frequency (MHz)	S.A. Reading (dBµV)	Turntable Azimuth (degrees)	Test Antenna			Cable Loss (dB)	Pre-Amp. (dB)	Cord. Reading (dBµV/m)	FCC Part 15C		Comments
			Height (cm)	Polarity (H/V)	Factor (dB/m)				Limit (dBµV/m)	Margin (dB)	
High channel 2480 MHz measured at 3 meters											
2480	70.65	222	100	V	29.12	3.25	0	103.02	-	-	Fund/Peak
2480	69.97	323	100	H	29.12	3.25	0	102.34	-	-	Fund/Ave
2480	70.15	222	100	V	29.12	3.25	0	102.52	-	-	Fund/Peak
2480	69.43	323	100	H	29.12	3.25	0	101.8	-	-	Fund/Ave
2483.5	28.17	0	100	V	29.12	3.25	0	60.54	74	-13.46	Spur/Peak
2483.5	27.64	0	100	H	29.12	3.25	0	60.01	74	-13.99	Spur/Peak
2483.5	15.25	0	100	V	29.12	3.25	0	47.62	54	-6.38	Spur/Ave
2483.5	15.61	0	100	H	29.12	3.25	0	47.98	54	-6.02	Spur/Ave
250	47.17	289	121	V	12.5	1.37	25.4	35.64	46	-10.36	Spur/QP
250	50.68	234	100	H	12.5	1.37	25.4	39.15	46	-6.85	Spur/QP
4960	43.08	214	129	V	33.91	4.52	27.7	53.81	74	-20.19	Harm/Peak
4960	21.09	214	129	V	33.91	4.52	27.7	31.82	54	-22.18	Harm/Ave
4960	42.71	339	100	H	33.91	4.52	27.7	53.44	74	-20.56	Harm/Peak
4960	21.22	339	100	H	33.91	4.52	27.7	31.95	54	-22.05	Harm/Ave
7440	34.38	0	100	V	38.28	5.66	27.53	50.79	74	-23.21	Harm/Peak
7440	20.04	0	100	V	38.28	5.66	27.53	36.45	54	-17.55	Harm/Ave
7440	34	0	100	H	38.28	5.66	27.53	50.41	74	-23.59	Harm/Peak
7440	20.48	0	100	H	38.28	5.66	27.53	36.89	54	-17.11	Harm/Ave
9920	32.27	0	100	V	37.9	6.67	27.01	49.83	82.51	-32.68	Harm/Peak
9920	19.29	0	100	V	37.9	6.67	27.01	36.85	81.78	-44.93	Harm/Ave
9920	32.42	0	100	H	37.9	6.67	27.01	49.98	84.87	-34.89	Harm/Peak
9920	19.31	0	100	H	37.9	6.67	27.01	36.87	83.75	-46.88	Harm/Ave