U.S. Department
of Transportation

**Research and
Special Programs
Administration**

Transportation
Systems Center

Kendall Square
Cambridge, Massachusetts 02142

August 25, 2004

National Patent Analytical Systems, Inc.
2090 Harrington Memorial Road
P.O. Box 1435
Mansfield, OH 44901

This is to confirm that the National Patent Analytical Systems, Inc. **DataMaster DMT** evidential breath tester that was submitted to this Center for evaluation has been found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for screening units for breath alcohol testers, **FR** 62 43416.

The test report is enclosed. It is expected that the device will appear on the next update of the NHTSA Conforming Products List for screening devices.

Sincerely,

Edward Conde
Alcohol Countermeasures Support

C: James Frank/ NTS-31

Manufacturer: National Patent Analytical Systems, Inc. Datamaster DMT snDD00001

Test	1	2	3	4	5	6	7	8	9	10	Mean	SD	SE	Pass
{target BAC indicated in brackets}														
1. Precision and Accuracy														
{0.020}	0.020	0.020	0.020	0.020	0.020	0.019	0.019	0.020	0.019	0.019	0.020	0.0005	0.000	
{0.040}	0.041	0.040	0.042	0.041	0.040	0.040	0.041	0.040	0.041	0.040	0.041	0.0007	0.001	
{0.080}	0.080	0.079	0.079	0.079	0.078	0.081	0.080	0.078	0.081	0.081	0.080	0.0012	0.000	
{0.160}	0.166	0.163	0.164	0.162	0.162	0.164	0.160	0.160	0.160	0.164	0.163	0.0021	0.002	YES
{0.300}	0.312	0.309	0.307	0.308	0.306	0.308	0.305	0.304	0.303	0.302	0.306	0.0030	0.006	***
2. Acetone Interference														
low acetone {0.020}	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID				
high acetone {0.020}	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID				YES
3. Blank Reading {0.000}	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	*YES
4. Breath Sampling {0.080}														
0.2 Liters /sec.	0.083	0.083	0.083	0.083	0.082	0.082	0.083	0.082	0.081	0.081	0.082	0.0008	0.002	
0.3 Liters/sec.	0.082	0.083	0.082	0.081	0.081	0.081	0.080	0.079	0.081	0.080	0.081	0.0012	0.001	
0.5 Liters/sec.	0.081	0.081	0.081	0.080	0.080	0.081	0.080	0.080	0.077	0.079	0.080	0.0012	0.000	YES
5. Power {0.080}														
108 Volts, AC	0.080	0.079	0.080	0.078	0.078	0.080	0.078	0.079	0.079	0.078	0.079	0.0009	-0.001	
123 Volts, AC	0.083	0.082	0.081	0.081	0.081	0.081	0.081	0.080	0.080	0.079	0.081	0.0011	0.001	YES
6. Temperature {0.080}														
20 deg. C	0.082	0.080	0.080	0.080	0.079	0.082	0.081	0.080	0.080	0.081	0.081	0.0010	0.000	
30 deg. C	0.082	0.080	0.080	0.080	0.080	0.081	0.080	0.079	0.079	0.079	0.080	0.0009	0.000	YES
7. Post Vibration {0.080}	0.082	0.081	0.081	0.080	0.080	0.081	0.080	0.079	0.079	0.079	0.080	0.0010	0.000	YES
8. Electrical Safety Insp.														YES

Units
BAC: gm/210L Air
SD:Standard Deviation
SE:Syst. Error, Mean -target BAC
ID: Interference detected
Date: August, 2004

Acetone-in-air Concentration
low: 0.3 mg/L
high: 0.5 mg/L

Requirements
SD: 0.0042 or less
SE: plus or minus 0.005 BAC or 5 % whichever is greater
*No single result greater than 0.005 BAC

***No requirement (information only)