

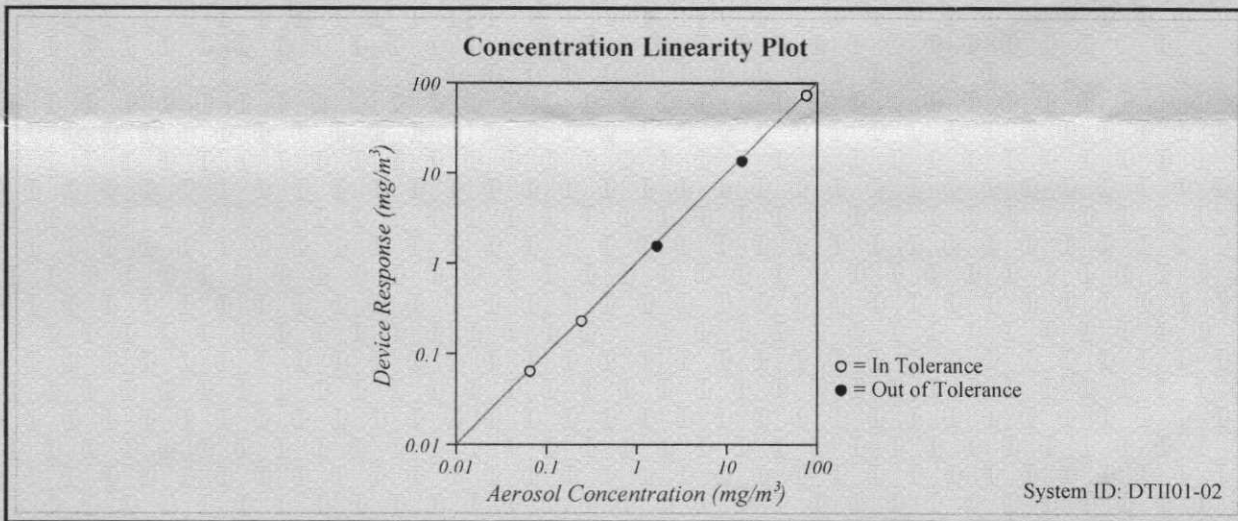


# CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA  
 Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

Environment Conditions			Model	<b>AM520</b>
Temperature	77.2 (25.1)	°F (°C)	Serial Number	<b>5201811005</b>
Relative Humidity	49	%RH		
Barometric Pressure	28.90 (978.7)	inHg (hPa)		

<input type="checkbox"/> As Left	<input type="checkbox"/> In Tolerance	
<input checked="" type="checkbox"/> As Found	<input checked="" type="checkbox"/> Out of Tolerance	



CONCENTRATION				Unit: mg/m <sup>3</sup>			
#	STANDARD	MEASURED	ALLOWABLE RANGE	#	STANDARD	MEASURED	ALLOWABLE RANGE
1	0.065	0.060	0.045-0.085	4	14.465	* 12.803	13.018-15.912
2	0.241	0.218	0.205-0.277	5	74.999	68.690	67.499-82.499
3	1.663	* 1.453	1.497-1.829				

*TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass per standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 4:1*

<table border="0"> <tr> <th>Measurement Variable</th> <th>System ID</th> <th>Last Cal.</th> <th>Cal. Due</th> </tr> <tr> <td>DC Voltage</td> <td>E003314</td> <td>01-15-20</td> <td>01-31-21</td> </tr> <tr> <td>Photometer</td> <td>E005612</td> <td>02-25-20</td> <td>08-31-20</td> </tr> <tr> <td>Pressure</td> <td>E003511</td> <td>10-04-19</td> <td>10-31-20</td> </tr> </table>	Measurement Variable	System ID	Last Cal.	Cal. Due	DC Voltage	E003314	01-15-20	01-31-21	Photometer	E005612	02-25-20	08-31-20	Pressure	E003511	10-04-19	10-31-20	<table border="0"> <tr> <th>Measurement Variable</th> <th>System ID</th> <th>Last Cal.</th> <th>Cal. Due</th> </tr> <tr> <td>DC Voltage</td> <td>E003315</td> <td>01-15-20</td> <td>01-31-21</td> </tr> <tr> <td>Microbalance</td> <td>M001324</td> <td>10-03-18</td> <td>10-31-20</td> </tr> <tr> <td>Flowmeter</td> <td>E005140</td> <td>01-09-20</td> <td>01-31-21</td> </tr> </table>	Measurement Variable	System ID	Last Cal.	Cal. Due	DC Voltage	E003315	01-15-20	01-31-21	Microbalance	M001324	10-03-18	10-31-20	Flowmeter	E005140	01-09-20	01-31-21
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May 26, 2020

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Verified

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Date




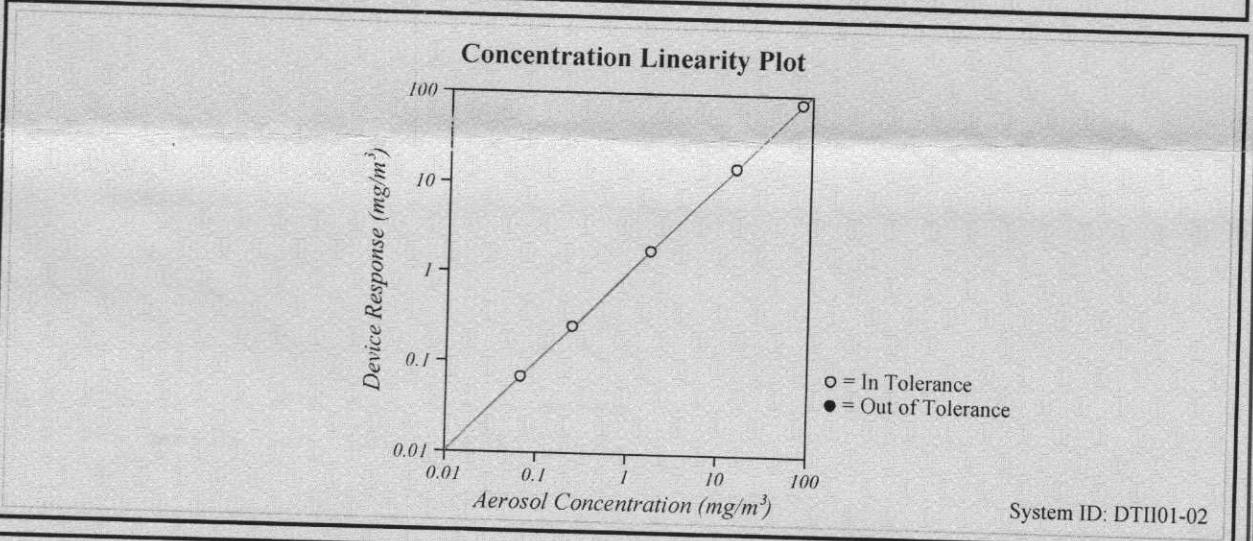
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Environment Conditions		
Temperature	74.1 (23.4)	°F (°C)
Relative Humidity	50	%RH
Barometric Pressure	28.91 (979.0)	inHg (hPa)

Model	<b>AM520</b>
Serial Number	<b>5201811005</b>

<input checked="" type="checkbox"/> As Left	<input checked="" type="checkbox"/> In Tolerance	
<input type="checkbox"/> As Found	<input type="checkbox"/> Out of Tolerance	



CONCENTRATION				Unit: mg/m <sup>3</sup>			
#	STANDARD	MEASURED	ALLOWABLE RANGE	#	STANDARD	MEASURED	ALLOWABLE RANGE
1	0.066	0.064	0.046~0.086	4	14.536	14.491	13.082~15.990
2	0.240	0.241	0.204~0.276	5	76.191	75.775	68.572~83.810
3	1.715	1.664	1.543~1.887				

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May 26, 2020

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Calibrated

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Date