

Report Date:
18-Jan-12 13:25



- Final Report
- Re-Issued Report
- Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY
Laboratory Report

Spectrum Analytical, Inc.
175 Metro Center Boulevard
Warwick, RI 02886-1755
Attn: Agnes Huntley

Project: Active Industrial-Franklin Cleaners
Project #: K2745

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Container</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB41838-01	Franklin	Summa canister 6 liter	Air	29-Dec-11 11:45	31-Dec-11 09:50

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes.

Please note that this report contains 9 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

CASE NARRATIVE:

Samples are received and the pressure is recorded from the gauge on the canister. If a canister does not have a gauge, a vacuum gauge is attached to the valve and pressure is recorded. If the canister is below -10 psig, the can must be pressurized to 0 psig. Tedlar bags do not have the pressure recorded. The can pressure can be located within this report in the sample header information.

If a Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

EPA TO-15

Calibration:

Calibration 1201023

The %RSD for analyte Benzyl chloride is 38.4%. The calculated %RSD for the RRF for each compound in the calibration must be less than 30% with at most two exceptions up to a limit of 40%. This affected the following samples:

Franklin

Sample Identification

Franklin
SB41838-01

Client Project #
K2745

Matrix
Air

Collection Date/Time
29-Dec-11 11:45

Received
31-Dec-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result/Units</u>	<u>*RDL</u>	<u>Result ug/m³</u>	<u>*RDL</u>	<u>Flag</u>	<u>Method Ref.</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Air Quality Analyses											
<u>Volatile Organics in Air</u>											
		<u>ppbv</u>		<u>Prepared 09-Jan-12</u>				<u>Can pressure: +1</u>			
				<u>Dilution: 1</u>				<u>Can ID: 1646</u>			
115-07-1	Propene	0.370	0.500	0.64	0.86	J	EPA TO-15	09-Jan-12	KRL	1200702	
75-71-8	Dichlorodifluoromethane (Freon12)	0.570	0.500	2.82	2.47		"	"	"	"	X
74-87-3	Chloromethane	0.660	0.500	1.36	1.03		"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.365	0.500	< 2.55	3.49	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.394	0.500	< 1.01	1.28	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 0.377	0.500	< 0.83	1.10	U	"	"	"	"	X
74-83-9	Bromomethane	< 0.298	0.500	< 1.16	1.94	U	"	"	"	"	X
75-00-3	Chloroethane	< 0.448	0.500	< 1.18	1.32	U	"	"	"	"	X
67-64-1	Acetone	2.20	0.500	5.23	1.19		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.447	0.500	< 2.51	2.81	U	"	"	"	"	X
64-17-5	Ethanol	6.88	0.500	12.97	0.94		"	"	"	"	
107-13-1	Acrylonitrile	< 0.383	0.500	< 0.83	1.08	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.373	0.500	< 1.48	1.98	U	"	"	"	"	X
75-09-2	Methylene chloride	< 0.443	0.500	< 1.54	1.74	U	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.369	0.500	< 2.83	3.83	U	"	"	"	"	X
75-15-0	Carbon disulfide	< 0.372	0.500	< 1.16	1.56	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.213	0.500	< 0.84	1.98	U	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.200	0.500	< 0.81	2.02	U	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	0.210	0.500	0.76	1.80	J	"	"	"	"	X
67-63-0	Isopropyl alcohol	2.80	0.500	6.87	1.23		"	"	"	"	X
78-93-3	2-Butanone (MEK)	0.900	0.500	2.65	1.47		"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.163	0.500	< 0.65	1.98	U	"	"	"	"	X
110-54-3	Hexane	< 0.217	0.500	< 0.77	1.76	U	"	"	"	"	X
141-78-6	Ethyl acetate	1.16	0.500	4.18	1.80		"	"	"	"	
67-66-3	Chloroform	< 0.284	0.500	< 1.38	2.43	U	"	"	"	"	X
109-99-9	Tetrahydrofuran	2.25	0.500	6.63	1.47		"	"	"	"	
107-06-2	1,2-Dichloroethane	< 0.254	0.500	< 1.03	2.02	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 0.196	0.500	< 1.07	2.73	U	"	"	"	"	X
71-43-2	Benzene	0.210	0.500	0.67	1.60	J	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.208	0.500	< 1.31	3.15	U	"	"	"	"	X
110-82-7	Cyclohexane	< 0.175	0.500	< 0.60	1.72	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.196	0.500	< 0.91	2.31	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.211	0.500	< 1.41	3.35	U	"	"	"	"	X
79-01-6	Trichloroethene	0.270	0.500	1.45	2.69	J	"	"	"	"	X
123-91-1	1,4-Dioxane	< 0.265	0.500	< 0.95	1.80	U	"	"	"	"	X
142-82-5	n-Heptane	< 0.183	0.500	< 0.75	2.05	U	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 0.250	0.500	< 1.02	2.05	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.170	0.500	< 0.77	2.27	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.149	0.500	< 0.68	2.27	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.262	0.500	< 1.43	2.73	U	"	"	"	"	X
108-88-3	Toluene	0.420	0.500	1.58	1.88	J	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.154	0.500	< 0.63	2.05	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.184	0.500	< 1.57	4.26	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.305	0.500	< 2.34	3.84	U	"	"	"	"	X

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Sample Identification

Franklin
SB41838-01

Client Project #
K2745

Matrix
Air

Collection Date/Time
29-Dec-11 11:45

Received
31-Dec-11

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result/Units</u>	<u>*RDL</u>	<u>Result ug/m³</u>	<u>*RDL</u>	<u>Flag</u>	<u>Method Ref.</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Air Quality Analyses											
<u>Volatile Organics in Air</u>											
		<u>ppbv</u>		<u>Prepared 09-Jan-12</u>				<u>Can pressure: +1</u>			
				<u>Dilution: 1</u>				<u>Can ID: 1646</u>			
127-18-4	Tetrachloroethene	16.0	0.500	108.50	3.39		EPA TO-15	09-Jan-12	KRL	1200702	X
108-90-7	Chlorobenzene	< 0.290	0.500	< 1.34	2.30	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.227	0.500	< 1.56	3.44	U	"	"	"	"	
100-41-4	Ethylbenzene	< 0.195	0.500	< 0.85	2.17	U	"	"	"	"	X
179601-23-1	m,p-Xylene	< 0.494	0.500	< 2.14	2.17	U	"	"	"	"	X
75-25-2	Bromoform	< 0.222	0.500	< 2.29	5.17	U	"	"	"	"	X
100-42-5	Styrene	< 0.247	0.500	< 1.05	2.13	U	"	"	"	"	X
95-47-6	o-Xylene	< 0.305	0.500	< 1.32	2.17	U	"	"	"	"	X
79-34-5	1,1,1,2,2-Tetrachloroethane	< 0.273	0.500	< 1.87	3.43	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 0.253	0.500	< 1.24	2.46	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.292	0.500	< 1.44	2.46	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 0.237	0.500	< 1.17	2.46	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 0.167	0.500	< 0.82	2.46	U	"	"	"	"	X
91-20-3	Naphthalene	< 0.173	0.500	< 0.91	2.62	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.273	0.500	< 1.64	3.01	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 0.178	0.500	< 0.92	2.58	U	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.215	0.500	< 1.29	3.01	U	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.243	0.500	< 1.33	2.74	U	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 0.239	0.500	< 1.28	2.68	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 0.232	0.500	< 1.39	3.01	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.244	0.500	< 1.34	2.74	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 0.184	0.500	< 1.37	3.71	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.234	0.500	< 2.50	5.33	U	"	"	"	"	X
<u>Surrogate recoveries:</u>											
460-00-4	4-Bromofluorobenzene	103		70-130 %			"	"	"	"	

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Air Quality Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1200702 - General Air Prep										
<u>Blank (1200702-BLK1)</u>	<u>Prepared & Analyzed: 09-Jan-12</u>									
Propene	< 0.213	U	ppbv	0.213						
Dichlorodifluoromethane (Freon12)	< 0.330	U	ppbv	0.330						
Chloromethane	< 0.375	U	ppbv	0.375						
1,2-Dichlorotetrafluoroethane (Freon 114)	< 0.365	U	ppbv	0.365						
Vinyl chloride	< 0.394	U	ppbv	0.394						
1,3-Butadiene	< 0.377	U	ppbv	0.377						
Bromomethane	< 0.298	U	ppbv	0.298						
Chloroethane	< 0.448	U	ppbv	0.448						
Acetone	< 0.445	U	ppbv	0.445						
Trichlorofluoromethane (Freon 11)	< 0.447	U	ppbv	0.447						
Ethanol	< 0.404	U	ppbv	0.404						
Acrylonitrile	< 0.383	U	ppbv	0.383						
1,1-Dichloroethene	< 0.373	U	ppbv	0.373						
Methylene chloride	< 0.443	U	ppbv	0.443						
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.369	U	ppbv	0.369						
Carbon disulfide	< 0.372	U	ppbv	0.372						
trans-1,2-Dichloroethene	< 0.213	U	ppbv	0.213						
1,1-Dichloroethane	< 0.200	U	ppbv	0.200						
Methyl tert-butyl ether	< 0.169	U	ppbv	0.169						
Isopropyl alcohol	< 0.228	U	ppbv	0.228						
2-Butanone (MEK)	< 0.358	U	ppbv	0.358						
cis-1,2-Dichloroethene	< 0.163	U	ppbv	0.163						
Hexane	< 0.217	U	ppbv	0.217						
Ethyl acetate	< 0.275	U	ppbv	0.275						
Chloroform	< 0.284	U	ppbv	0.284						
Tetrahydrofuran	< 0.220	U	ppbv	0.220						
1,2-Dichloroethane	< 0.254	U	ppbv	0.254						
1,1,1-Trichloroethane	< 0.196	U	ppbv	0.196						
Benzene	< 0.161	U	ppbv	0.161						
Carbon tetrachloride	< 0.208	U	ppbv	0.208						
Cyclohexane	< 0.175	U	ppbv	0.175						
1,2-Dichloropropane	< 0.196	U	ppbv	0.196						
Bromodichloromethane	< 0.211	U	ppbv	0.211						
Trichloroethene	< 0.178	U	ppbv	0.178						
1,4-Dioxane	< 0.265	U	ppbv	0.265						
n-Heptane	< 0.183	U	ppbv	0.183						
4-Methyl-2-pentanone (MIBK)	< 0.250	U	ppbv	0.250						
cis-1,3-Dichloropropene	< 0.170	U	ppbv	0.170						
trans-1,3-Dichloropropene	< 0.149	U	ppbv	0.149						
1,1,2-Trichloroethane	< 0.262	U	ppbv	0.262						
Toluene	< 0.189	U	ppbv	0.189						
2-Hexanone (MBK)	< 0.154	U	ppbv	0.154						
Dibromochloromethane	< 0.184	U	ppbv	0.184						
1,2-Dibromoethane (EDB)	< 0.305	U	ppbv	0.305						
Tetrachloroethene	< 0.201	U	ppbv	0.201						
Chlorobenzene	< 0.290	U	ppbv	0.290						
1,1,1,2-Tetrachloroethane	< 0.227	U	ppbv	0.227						
Ethylbenzene	< 0.195	U	ppbv	0.195						
m,p-Xylene	< 0.494	U	ppbv	0.494						
Bromoform	< 0.222	U	ppbv	0.222						
Styrene	< 0.247	U	ppbv	0.247						
o-Xylene	< 0.305	U	ppbv	0.305						

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Air Quality Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1200702 - General Air Prep										
Blank (1200702-BLK1)					<u>Prepared & Analyzed: 09-Jan-12</u>					
1,1,2,2-Tetrachloroethane	< 0.273	U	ppbv	0.273						
Isopropylbenzene	< 0.253	U	ppbv	0.253						
1,3,5-Trimethylbenzene	< 0.292	U	ppbv	0.292						
4-Ethyltoluene	< 0.237	U	ppbv	0.237						
1,2,4-Trimethylbenzene	< 0.167	U	ppbv	0.167						
Naphthalene	< 0.173	U	ppbv	0.173						
1,3-Dichlorobenzene	< 0.273	U	ppbv	0.273						
Benzyl chloride	< 0.178	U	ppbv	0.178						
1,4-Dichlorobenzene	< 0.215	U	ppbv	0.215						
sec-Butylbenzene	< 0.243	U	ppbv	0.243						
4-Isopropyltoluene	< 0.239	U	ppbv	0.239						
1,2-Dichlorobenzene	< 0.232	U	ppbv	0.232						
n-Butylbenzene	< 0.244	U	ppbv	0.244						
1,2,4-Trichlorobenzene	< 0.184	U	ppbv	0.184						
Hexachlorobutadiene	< 0.234	U	ppbv	0.234						
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>10.2</i>		ppbv		<i>10.0</i>		<i>102</i>	<i>70-130</i>		
LCS (1200702-BS1)					<u>Prepared & Analyzed: 09-Jan-12</u>					
Propene	10.1		ppbv		10.0		101	70-130		
Dichlorodifluoromethane (Freon12)	9.58		ppbv		10.0		96	70-130		
Chloromethane	9.55		ppbv		10.0		96	70-130		
1,2-Dichlorotetrafluoroethane (Freon 114)	9.89		ppbv		10.0		99	70-130		
Vinyl chloride	9.93		ppbv		10.0		99	70-130		
1,3-Butadiene	10.2		ppbv		10.0		102	70-130		
Bromomethane	9.79		ppbv		10.0		98	70-130		
Chloroethane	10.0		ppbv		10.0		100	70-130		
Acetone	9.44		ppbv		10.0		94	70-130		
Trichlorofluoromethane (Freon 11)	9.70		ppbv		10.0		97	70-130		
Ethanol	8.63		ppbv		10.0		86	70-130		
Acrylonitrile	9.05		ppbv		10.0		90	60-160		
1,1-Dichloroethene	9.08		ppbv		10.0		91	70-130		
Methylene chloride	10.0		ppbv		10.0		100	70-130		
1,1,2-Trichlorotrifluoroethane (Freon 113)	10.6		ppbv		10.0		106	70-130		
Carbon disulfide	10.1		ppbv		10.0		101	70-130		
trans-1,2-Dichloroethene	9.29		ppbv		10.0		93	70-130		
1,1-Dichloroethane	9.56		ppbv		10.0		96	70-130		
Methyl tert-butyl ether	9.45		ppbv		10.0		94	70-130		
Isopropyl alcohol	9.05		ppbv		10.0		90	70-130		
2-Butanone (MEK)	9.61		ppbv		10.0		96	70-130		
cis-1,2-Dichloroethene	9.20		ppbv		10.0		92	70-130		
Hexane	9.97		ppbv		10.0		100	70-130		
Ethyl acetate	10.4		ppbv		10.0		104	70-130		
Chloroform	9.36		ppbv		10.0		94	70-130		
Tetrahydrofuran	9.69		ppbv		10.0		97	70-130		
1,2-Dichloroethane	9.34		ppbv		10.0		93	70-130		
1,1,1-Trichloroethane	9.62		ppbv		10.0		96	70-130		
Benzene	9.39		ppbv		10.0		94	70-130		
Carbon tetrachloride	10.2		ppbv		10.0		102	70-130		
Cyclohexane	9.02		ppbv		10.0		90	70-130		
1,2-Dichloropropane	9.56		ppbv		10.0		96	70-130		
Bromodichloromethane	9.90		ppbv		10.0		99	70-130		
Trichloroethene	9.31		ppbv		10.0		93	70-130		

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Air Quality Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1200702 - General Air Prep										
<u>LCS (1200702-BS1)</u>								<u>Prepared & Analyzed: 09-Jan-12</u>		
1,4-Dioxane	8.80		ppbv		10.0		88	60-160		
n-Heptane	9.92		ppbv		10.0		99	70-130		
4-Methyl-2-pentanone (MIBK)	10.1		ppbv		10.0		101	70-130		
cis-1,3-Dichloropropene	10.0		ppbv		10.0		100	70-130		
trans-1,3-Dichloropropene	10.4		ppbv		10.0		104	70-130		
1,1,2-Trichloroethane	9.42		ppbv		10.0		94	70-130		
Toluene	9.48		ppbv		10.0		95	70-130		
2-Hexanone (MBK)	10.4		ppbv		10.0		104	70-130		
Dibromochloromethane	9.94		ppbv		10.0		99	70-130		
1,2-Dibromoethane (EDB)	9.60		ppbv		10.0		96	70-130		
Tetrachloroethane	8.97		ppbv		10.0		90	70-130		
Chlorobenzene	9.33		ppbv		10.0		93	70-130		
1,1,1,2-Tetrachloroethane	9.21		ppbv		10.0		92	60-160		
Ethylbenzene	9.49		ppbv		10.0		95	70-130		
m,p-Xylene	19.0		ppbv		20.0		95	70-130		
Bromoform	10.0		ppbv		10.0		100	70-130		
Styrene	9.58		ppbv		10.0		96	70-130		
o-Xylene	9.53		ppbv		10.0		95	70-130		
1,1,2,2-Tetrachloroethane	9.44		ppbv		10.0		94	70-130		
Isopropylbenzene	8.60		ppbv		10.0		86	60-160		
1,3,5-Trimethylbenzene	9.06		ppbv		10.0		91	70-130		
4-Ethyltoluene	9.16		ppbv		10.0		92	70-130		
1,2,4-Trimethylbenzene	9.01		ppbv		10.0		90	70-130		
Naphthalene	12.7		ppbv		10.0		127	70-160		
1,3-Dichlorobenzene	9.34		ppbv		10.0		93	70-130		
Benzyl chloride	12.1		ppbv		10.0		121	70-130		
1,4-Dichlorobenzene	9.51		ppbv		10.0		95	70-130		
sec-Butylbenzene	8.95		ppbv		10.0		90	60-160		
4-Isopropyltoluene	9.25		ppbv		10.0		92	60-160		
1,2-Dichlorobenzene	8.75		ppbv		10.0		88	70-130		
n-Butylbenzene	9.52		ppbv		10.0		95	60-160		
1,2,4-Trichlorobenzene	9.36		ppbv		10.0		94	70-130		
Hexachlorobutadiene	7.73		ppbv		10.0		77	70-130		
Surrogate: 4-Bromofluorobenzene	10.3		ppbv		10.0		103	70-130		

This laboratory report is not valid without an authorized signature on the cover page.

Certificate of Analysis

Container Type: Summa canister 6 liter

Date of Analysis: 12/22/2011

Canister ID: 4636

Analyst's Initials: KG

The sampling device detailed above has been tested and is certified to the limits for the target compounds as listed below.

<i>Analyte</i>	<i>Quantitation Limit (ppbv)</i>	<i>Analyte</i>	<i>Quantitation Limit (ppbv)</i>
Acetone	<0.2	Ethanol	<0.2
Acrylonitrile	<0.2	4-Isopropyl Toluene	<0.2
Benzene	<0.2	Ethyl acetate	<0.2
Benzyl chloride	<0.2	Ethylbenzene	<0.2
Bromodichloromethane	<0.2	4-Ethyltoluene	<0.2
Bromoform	<0.2	n-Heptane	<0.2
Bromomethane	<0.2	Hexachlorobutadiene	<0.2
1,3-Butadiene	<0.2	Hexane	<0.2
2-Butanone (MEK)	<0.2	2-Hexanone (MBK)	<0.2
Carbon disulfide	<0.2	Isopropyl alcohol	<0.2
Carbon tetrachloride	<0.2	4-Methyl-2-pentanone (MIBK)	<0.2
Chlorobenzene	<0.2	Methyl tert-butyl ether	<0.2
Chloroethane	<0.2	Methylene chloride	<0.2
1,4-Dioxane	<0.2	Naphthalene	<0.2
n-Butylbenzene	<0.2	1,1,1,2-Tetrachloroethane	<0.2
Chloroform	<0.2	Propene	<0.2
Chloromethane	<0.2	Styrene	<0.2
Cyclohexane	<0.2	1,1,2,2-Tetrachloroethane	<0.2
Dibromochloromethane	<0.2	Tetrachloroethene	<0.2
1,2-Dibromoethane (EDB)	<0.2	Tetrahydrofuran	<0.2
1,2-Dichlorobenzene	<0.2	Toluene	<0.2
1,3-Dichlorobenzene	<0.2	1,2,4-Trichlorobenzene	<0.2
1,4-Dichlorobenzene	<0.2	1,1,1-Trichloroethane	<0.2
Dichlorodifluoromethane (Freon12)	<0.2	1,1,2-Trichloroethane	<0.2
1,1-Dichloroethane	<0.2	Trichloroethene	<0.2
1,2-Dichloroethane	<0.2	1,1,2-Trichlorotrifluoroethane (Freon 113)	<0.2
1,1-Dichloroethene	<0.2	Trichlorofluoromethane (Freon 11)	<0.2
cis-1,2-Dichloroethene	<0.2	1,2,4-Trimethylbenzene	<0.2
trans-1,2-Dichloroethene	<0.2	1,3,5-Trimethylbenzene	<0.2
1,2-Dichloropropane	<0.2	Vinyl chloride	<0.2
cis-1,3-Dichloropropene	<0.2	m,p-Xylene	<0.2
trans-1,3-Dichloropropene	<0.2	o-Xylene	<0.2
1,2-Dichlorotetrafluoroethane (Freon 114)	<0.2	sec-Butylbenzene	<0.2
Isopropylbenzene	<0.2		

This certification applies to the following sampling devices:

1343

1646

Notes and Definitions

J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Kimberly Wisk

CHAIN-OF-CUSTODY RECORD

SB4183801

SB

SPECTRUM ANALYTICAL, INC.
 Framingham
 HANOVER, MASSACHUSETTS

Requested Test

Subcontractor:
 Spectrum Analytical, Inc.
 11 Almgren Drive
 Agawam, Massachusetts 01001
 Phone: (413) 789-9018

WorkOrder : K2745
 Report Type : ASP-A
 Due Date : 1/23/2012
 FAX Due Date :
 Report To : Agnes R Ng
 Purchase Order : K2745
 EDD Type : EQUUS_4_NVSDEC

EQUUSFacilityCode: N/A

Client Sample ID	Collection Date	Matrix	DUP/MS/MSD	Mitkem Sample ID	Totals																
EFFLUENT SB41838 01	12/29/2011 11:45:00 AM	Air		K2745-01A	X																
EFFLUENT F 02	12/29/2011 1:20:00 PM	Air		K2745-02A	X																

1) TO15, TO-15 VOA BY GC-MS

Use Client Sample IDs when reporting data. If needed, truncate Client Sample IDs to fit on reports. Use full Client Sample ID when generating EDD.
Comments: Franklin Cleaners/Active Industrial target analyte list.

Relinquished by:	<i>Agnes R Shively</i>	Date/Time	01/03/12 12:00	Received by:	<i>Feder</i>	Date/Time	01/03/2012
Relinquished by:	<i>Feder</i>			Received by:	<i>Feder</i>	12/31/11 9:50am	01/03/2012

00040
00052

FedEx NEW Package
Express US Airbill
Tracking Number 875934261180

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records.
Date 12-30-11
Tracking Number 875934261180

Sender's Name *Karen Sordal* Phone *601 443 6100*

Company ENVIRONMENT ASGMT AND REME

Address 225 ATLANTIC AVE
City PATCHOGUE State NY ZIP 11772-3841

2 Your Internal Billing Reference *Doc - Kemp 206 / Lind 63*

3 To Recipients Name *Sampo Receiving* Phone *413 789 9158*
Company *Spectra Analytical*

Address *11 Alvirren Dr.*
City *Agawam* State *MA* ZIP *01001*



8759 3426 1180

Form No. 0215

Recipient's Copy

4 Express Package Service
NOTE: Service order has changed. Please select carefully.

Next Business Day

FedEx First Overnight

FedEx Priority Overnight

FedEx Standard Overnight

2 of 3 Business Days

Next Business Morning

FedEx Standard Overnight

FedEx Express Saver

5 Packaging

6 Special Handling and Delivery Signature Options

7 Payment Bill to:

Total Packages Total Weight
Sender's Address
Recipient's Address
Third Party
Credit Card
Cash/Check
Outstanding

Free Date 11/10 • Fax #813/34 • © 1984-2010 FedEx • PRINTED IN U.S.A. 385



fedex.com 1800.GoFedEx 1800.463.3339

Handwritten signature

SPECTRUM ANALYTICAL, INC.
 11 ALMIGREN DRIVE
 AGAWAM, MASSACHUSETTS 01001

CHAIN-OF-CUSTODY RECORD

SB418380A

WorkOrder : K2745
 Report Type : ASP-A

Requested Test

Due Date : 1/23/2012

FAX Due Date :

Report To : Agnes R Ng

Purchase Order : K2745

EDD Type : EQUIS_4_LNVSDEC

Subcontractor:
 Spectrum Analytical, Inc.
 11 Almgren Drive
 Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQUIFacilityCode: N/A

Client Sample ID	Collection Date	Matrix	DUP/M/MSD	Milkem Sample ID	Requested Test															
FRANKLIN EFFLUENT <i>SB41838 01</i>	12/29/2011 11:45:00 AM	Air		K2745-01A	<input checked="" type="checkbox"/>	<input type="checkbox"/>														
FRANKLIN EFFLUENT <i>SB41838 01</i>	12/29/2011 12:00:00 PM	Air		K2745-02A	<input checked="" type="checkbox"/>	<input type="checkbox"/>														

ID changes per client request 11/18/12
PROSE OF NAME CHANGED TO "ACTIVE INDUSTRIAL - FRANKLIN CLEANERS PER CLIENT REQUEST 11/18/12"

Use Client Sample IDs when reporting data. If needed, truncate Client Sample IDs to fit on reports. Use full Client Sample ID when generating EDD.
Comments: Franklin Cleaners/Active Industrial target analyte list.

Relinquished by:	<i>Agnes R Ng</i>	Date/Time:	01/03/12 12:00
Received by:	<i>Feder</i>	Date/Time:	12/31/11 9:50am
Relinquished by:	<i>Feder</i>	Received by:	<i>Feder</i>

18.6°C