Report Date:
18-Jan-12 13:26

☐ 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

Laboratory ID	Client Sample ID	Container	Matrix	Date Sampled	Date Received
SB41838-02	Active	Summa canister 6 liter	Air	29-Dec-11 13:20	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:

Active

Samples:

SB41838-02 *Active*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Active	K2745	Air	29-Dec-11 13:20	31-Dec-11
SB41838-02				

CAS No.	Analyte(s)	Result/Units	*RDL	Result ug/m³	*RDL	Flag	Method Ref.	Analyzed	Analyst	Batch	Cert.
Air Quality Analyses											
Volatile Organics in Air		ppbv	Prepared 09-Jan-12 Dilution: 8			GS1	Can pressure: +1 Can ID: 1343				
115-07-1	Propene	< 1.70	4.00	< 2.93	6.88	U	EPA TO-15	09-Jan-12	KRL	1200702	
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.64	4.00	< 13.05	19.78	U	"	"	"	"	X
74-87-3	Chloromethane	< 3.00	4.00	< 6.20	8.26	U	"	"	"	"	X
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	< 2.92	4.00	< 20.41	27.96	U	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.15	4.00	< 8.05	10.22	U	"	"	"	"	X
106-99-0	1,3-Butadiene	< 3.02	4.00	< 6.67	8.83	U	"	"	"	"	X
74-83-9	Bromomethane	< 2.38	4.00	< 9.24	15.53	U	"	"	"	"	X
75-00-3	Chloroethane	< 3.58	4.00	< 9.44	10.55	U	"	"	"	"	X
67-64-1	Acetone	**5.52**	4.00	**13.12**	9.51		"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.58	4.00	< 20.12	22.48	U	"	"	"	"	X
64-17-5	Ethanol	**3.36**	4.00	**6.34**	7.54	J	"	"	"	"	
107-13-1	Acrylonitrile	< 3.06	4.00	< 6.63	8.67	U	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 2.98	4.00	< 11.82	15.87	U	"	"	"	"	X
75-09-2	Methylene chloride	< 3.54	4.00	< 12.29	13.89	U	"	"	"	"	X
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 2.95	4.00	< 22.61	30.66	U	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.98	4.00	< 9.28	12.45	U	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	**2.56**	4.00	**10.15**	15.86	J	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.60	4.00	< 6.48	16.20	U	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.35	4.00	< 4.87	14.43	U	"	"	"	"	X
67-63-0	Isopropyl alcohol	**2.40**	4.00	**5.89**	9.82	J	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2.86	4.00	< 8.43	11.80	U	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**441**	4.00	**1748.67**	15.86		"	"	"	"	X
110-54-3	Hexane	< 1.74	4.00	< 6.13	14.10	U	"	"	"	"	X
141-78-6	Ethyl acetate	< 2.20	4.00	< 7.93	14.41	U	"	"	"	"	
67-66-3	Chloroform	< 2.27	4.00	< 11.05	19.47	U	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 1.76	4.00	< 5.19	11.80	U	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 2.03	4.00	< 8.22	16.20	U	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 1.57	4.00	< 8.57	21.82	U	"	"	"	"	X
71-43-2	Benzene	< 1.29	4.00	< 4.12	12.76	U	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.66	4.00	< 10.44	25.16	U	"	"	"	"	X
110-82-7	Cyclohexane	< 1.40	4.00	< 4.82	13.77	U	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.57	4.00	< 7.26	18.49	U	"	"	"	"	X
75-27-4	Bromodichloromethane	< 1.69	4.00	< 11.32	26.80	U	"	"	"	"	X
79-01-6	Trichloroethene	**82.0**	4.00	**440.69**	21.50		"	"	"	"	X
123-91-1	1,4-Dioxane	< 2.12	4.00	< 7.63	14.40	U	"	"	"	"	X
142-82-5	n-Heptane	< 1.46	4.00	< 5.98	16.39	U	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.00	4.00	< 8.20	16.39	U	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.36	4.00	< 6.17	18.16	U	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 1.19	4.00	< 5.40	18.16	U	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.10	4.00	< 11.46	21.82	U	"	"	"	"	X
108-88-3	Toluene	< 1.51	4.00	< 5.68	15.05	U	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 1.23	4.00	< 5.04	16.39	U	"	"	"	"	
124-48-1	Dibromochloromethane	< 1.47	4.00	< 12.52	34.08	U	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 2.44	4.00	< 18.75	30.74	U	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Active SB41838-02	K2745	Air	29-Dec-11 13:20	31-Dec-11

CAS No.	*Analyte(s)*	*Result/Units*	**RDL*	*Result ug/m³*	**RDL*	*Flag*	*Method Ref.*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Air Quality Analyses											
Volatile Organics in Air		ppbv	Prepared 09-Jan-12 Dilution: 8			GS1	Can pressure: +1 Can ID: 1343				
127-18-4	Tetrachloroethene	**316**	4.00	**2142.85**	27.12		EPA TO-15	09-Jan-12	KRL	1200702	X
108-90-7	Chlorobenzene	< 2.32	4.00	< 10.68	18.42	U	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.82	4.00	< 12.51	27.48	U	"	"	"	"	
100-41-4	Ethylbenzene	< 1.56	4.00	< 6.76	17.34	U	"	"	"	"	X
179601-23-1	m,p-Xylene	< 3.95	4.00	< 17.12	17.34	U	"	"	"	"	X
75-25-2	Bromoform	< 1.78	4.00	< 18.40	41.34	U	"	"	"	"	X
100-42-5	Styrene	< 1.98	4.00	< 8.42	17.01	U	"	"	"	"	X
95-47-6	o-Xylene	< 2.44	4.00	< 10.58	17.34	U	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 2.18	4.00	< 14.97	27.47	U	"	"	"	"	X
98-82-8	Isopropylbenzene	< 2.02	4.00	< 9.93	19.66	U	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.34	4.00	< 11.50	19.66	U	"	"	"	"	X
622-96-8	4-Ethyltoluene	< 1.90	4.00	< 9.34	19.66	U	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.34	4.00	< 6.59	19.66	U	"	"	"	"	X
91-20-3	Naphthalene	< 1.38	4.00	< 7.22	20.94	U	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.18	4.00	< 13.11	24.05	U	"	"	"	"	X
100-44-7	Benzyl chloride	< 1.42	4.00	< 7.32	20.61	U	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.72	4.00	< 10.34	24.05	U	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.94	4.00	< 10.65	21.96	U	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 1.91	4.00	< 10.25	21.46	U	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.86	4.00	< 11.18	24.05	U	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.95	4.00	< 10.70	21.96	U	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.47	4.00	< 10.91	29.69	U	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1.87	4.00	< 19.94	42.65	U	"	"	"	"	X
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*103*		*70-130 %*			"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1200702 - General Air Prep										
Blank (1200702-BLK1)						Prepared & Analyzed: 09-Jan-12				
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						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1200702 - General Air Prep										
Blank (1200702-BLK1)					Prepared & Analyzed: 09-Jan-12					
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						
Surrogate: 4-Bromofluorobenzene	*10.2*		ppbv		*10.0*		*102*	*70-130*		
LCS (1200702-BS1)					Prepared & Analyzed: 09-Jan-12					
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		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1200702 - General Air Prep										
LCS (1200702-BS1)					Prepared & Analyzed: 09-Jan-12					
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		
Tetrachloroethene	**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*		

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.

Analyte	*Quantitation Limit (ppbv)*	*Analyte*	*Quantitation Limit (ppbv)*
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-Tetrachlorethane	<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

GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
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

SB41838Ok

CHAIN-OF-CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

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

Phone: (413) 789-9018

EQuISFacilityCode: N/A

WorkOrder : K2745
Report Type : ASP-A
Due Date : 1/23/2012
FAX Due Date :
Report To : Agnes R Ng
Purchase Order : K2745
EDD Type : EQUIIS_4_NYSDEC

Client Sample ID	Collection Date	Matrix	DUP/MS/MSD	Mitkem Sample ID	Requested Test: TO15
EFFLUENT SB41838 01	12/29/2011 11:45:00 AM	Air		K2745-01A	X
EFFLUENT 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.

		Date/Time			Date/Time
Relinquished by:	Agnes R Ng	01/03/12 12:00	**Received by:**	Fed ex	
Relinquished by:	Fed ex		**Received by:**		12/3/11 950am

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01/03/2012

175 Metro Center Blvd * Warwick * RI * 02886-1755 * 401-732-3400 * 401-732-3499
www.spectrum-analytical.com

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Chain of Custody Record/Field Test Data Sheets for Air Analyses

Page ____ of ____

Special Handling:
☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: ________
· All TATs subject to laboratory approval.
· Min. 24-hour notification needed for rushes.

Report To: Karen Sanford E.A.R. 225 Atlantic Ave. Patchogue, NY, 11772	Invoice To: Steve Tauss Dvirka & Bartalucci 330 Crossways Park Dr. Westbury, NY 11797	Project No.: 130050 / 152125 Site Name: DEC-Hempstead 200 / DEC-Lindenhurst 63 Location: State:
Tel #: 631-447-6400	Attn:	Sampler(s): EAR/JES
Project Manager: Karen Sanford	P.O. No.: RQN:	

Can ID	Can Size (L)	Outgoing Canister Pressure ("Hg) (Lab)	Incoming Canister Pressure ("Hg) (Lab)	Flow Reg. ID	Flow Controller Readout (ml/min)	Lab Id:	Sample Id:	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Analysis: TO-15	Matrix: Indoor /Ambient Air	Matrix: Soil Gas	Matrix: SVE Sys	Check box if canister is returned unused
1646	6	-30					Effluent	12-29-11	1145	1145					X			X	
1343	6	-30					Effluent	12-29-11	1320	1320					X			X	

LABORATORY USE ONLY

Date of Request: 12/21/11 Total # Canisters: 2
Requested by: Karen Sanford # LL Canisters: 0
Company: Dvirka # Flow Controllers: 0
Location: Patchogue NY Flow Rate/Setting: NA
Date Needed: 12/27/11 Order #: 21031

QA/QC Reporting Level: Cat A
☐ Standard ☐ NY ASP A* ☐ TIER II* ☐ MA DEP CAM
☐ NO QC ☐ NY ASP B* ☐ TIER IV* ☐ CT DPH RCP
☐ DQA* * additional charges may apply contact SA's QA Department for further info.

Client Use	Ambient Temperature (Fahrenheit)	Ambient Pressure (inches of Hg)
Start		
Stop		

Special Instructions/QC Requirements & Comments:

I attest that all media relinquished from Spectrum Analytical, Inc. have been received in good working condition, based on visual observation, and agree to the terms and conditions as listed on the back of this document.

Signed: Date:

Printed:

Please contact SA's Air Department immediately at (800) 789-9115 if you experience any technical difficulties or suspect any QC issue(s) with air media.

Relinquished by:	Received by:	Date:	Time:
[signature]	EAR/Shipping + Receiving	12-29-11	1700
EAR FedEx	K Sanford	12-30-11	0930
K. Sanford	FedEx 8759 3426 1180	12-30-11 / 12-31-11	1015 / 950

☐ EDD Format NYSDEC equis & PDF
☐ E-mail Results to KSanford@enviro-asmnt.com

A Fed Ex 2143

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Revised 06/10

00040

00052

FedEx Express NEW Package US Airbill

FedEx Tracking Number 8759 3426 1180

19K18X17 SPH2

Form ID No. 0215

Recipient's Copy

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records.

Date 12-30-11 FedEx Tracking Number 875934261180

Sender's Name Karen Sanford Phone (03) 9476 4000

Company ENVIRONMENT ASSMT AND REME

Address 225 ATLANTIC AVE Dept./Floor/Suite/Room

City PATCHOGUE State NY ZIP 11772-3241

2 Your Internal Billing Reference Dec-Hemp206 / Lind63

3 To

Recipient's Name Sample Receiving Phone 413 789 9018

Company Spectrum Analytical

Address 11 Almgren Dr

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Agawam State MA ZIP 01001

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0438252699

8759 3426 1180

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs.
For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

- [X] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] NEW FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages Total Weight lbs. Credit Card Auth.

611

Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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SB41838Ok R

CHAIN-OF-CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.
Featuring
HANNIBAL TECHNOLOGY

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

Phone: (413) 789-9018

EQuISFacilityCode: N/A

WorkOrder : K2745
Report Type : ASP-A
Due Date : 1/23/2012
FAX Due Date :
Report To : Agnes R Ng
Purchase Order : K2745
EDD Type : EQUIIS_4_NYSDEC

	Client Sample ID	Collection Date	Matrix	DUP/MS/MSD	Mitkem Sample ID	Requested Test: TO15
FRANKLIN	~~EFFLUENT~~ ⊗ SB41838 01	12/29/2011 11:45:00 AM	Air		K2745-01A	X
ACTIVE	~~EFFLUENT~~ ⊗ " " 02	12/29/2011 1:20:00 PM	Air		K2745-02A	X

⊗ ID changes per client request 1/18/12 (SW)
✱ PROJECT NAME CHANGED TO "ACTIVE INDUSTRIAL-FRANKLIN CLEANERS PER CLIENT REQUEST 1/18/12 SW
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.

		Date/Time			Date/Time
Relinquished by:	Agnes R Ng	01/03/12 12:00	**Received by:**	Fed ex	
Relinquished by:	Fed ex		**Received by:**		12/3/11 950am

01/03/2012
Page 1 of 1

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