

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051922\
 Data File : VY008857.D
 Acq On : 19 May 2022 10:35
 Operator : KP/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/24/2022
 Supervised By : Mahesh Dadoda 05/24/2022

Quant Time: May 19 16:56:36 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051722S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 18 07:32:50 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.789	168	164673	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	271018	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	269881	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	175406	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	77451	50.698	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	101.400%		
35) Dibromofluoromethane	7.716	113	73981	46.720	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	93.440%		
50) Toluene-d8	10.179	98	320474	45.814	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	91.620%		
62) 4-Bromofluorobenzene	12.483	95	123418	49.195	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	98.400%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.906	85	54544	53.706	ug/l	100
3) Chloromethane	2.113	50	83151	57.364	ug/l	97
4) Vinyl Chloride	2.247	62	123850	56.495	ug/l	99
5) Bromomethane	2.644	94	102631	53.532	ug/l	100
6) Chloroethane	2.790	64	90803	53.790	ug/l	100
7) Trichlorofluoromethane	3.125	101	114801	52.264	ug/l	92
8) Diethyl Ether	3.528	74	37583	51.510	ug/l	81
9) 1,1,2-Trichlorotrifluo...	3.893	101	76222	56.803	ug/l	92
10) Methyl Iodide	4.088	142	79105	46.367	ug/l	92
11) Tert butyl alcohol	4.942	59	36109	213.865	ug/l #	92
12) 1,1-Dichloroethene	3.875	96	66033	47.258	ug/l	81
13) Acrolein	3.735	56	9822	117.594	ug/l	97
14) Allyl chloride	4.473	41	104484	50.835	ug/l #	90
15) Acrylonitrile	5.161	53	107766	217.810	ug/l	99
16) Acetone	3.942	43	79882	232.512	ug/l	93
17) Carbon Disulfide	4.192	76	180386	50.349	ug/l	99
18) Methyl Acetate	4.473	43	47197	42.826	ug/l #	88
19) Methyl tert-butyl Ether	5.216	73	212002	56.334	ug/l	95
20) Methylene Chloride	4.710	84	80432	51.249	ug/l	86
21) trans-1,2-Dichloroethene	5.216	96	84362	49.240	ug/l	85
22) Diisopropyl ether	6.112	45	265732	61.050	ug/l	95
23) Vinyl Acetate	6.058	43	873096	284.488	ug/l #	93
24) 1,1-Dichloroethane	6.009	63	152846	52.921	ug/l	97
25) 2-Butanone	6.978	43	144965	226.117	ug/l #	85
26) 2,2-Dichloropropane	6.978	77	145141	52.873	ug/l	95
27) cis-1,2-Dichloroethene	6.978	96	101325	53.321	ug/l	88
28) Bromochloromethane	7.326	49	53946	49.266	ug/l #	86
29) Tetrahydrofuran	7.344	42	96999	227.123	ug/l #	84
30) Chloroform	7.502	83	169808	54.836	ug/l	97
31) Cyclohexane	7.783	56	132992	55.448	ug/l #	84
32) 1,1,1-Trichloroethane	7.698	97	153802	53.570	ug/l	97
36) 1,1-Dichloropropene	7.917	75	126875	50.026	ug/l	97
37) Ethyl Acetate	7.070	43	64652	42.778	ug/l #	95
38) Carbon Tetrachloride	7.899	117	138545	50.973	ug/l	99
39) Methylcyclohexane	9.179	83	160778	53.456	ug/l	90
40) Benzene	8.161	78	374370	52.755	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.313	41	37369m	47.016	ug/l	
42) 1,2-Dichloroethane	8.234	62	110956	53.265	ug/l	93
43) Isopropyl Acetate	8.271	43	130013	51.675	ug/l #	91
44) Trichloroethene	8.935	130	99040	51.305	ug/l	95
45) 1,2-Dichloropropane	9.216	63	95452	56.596	ug/l	96
46) Dibromomethane	9.307	93	59202	53.420	ug/l	95
47) Bromodichloromethane	9.496	83	138689	56.451	ug/l	99
48) Methyl methacrylate	9.289	41	57879	52.392	ug/l #	84
49) 1,4-Dioxane	9.289	88	15641	939.623	ug/l #	84
51) 4-Methyl-2-Pentanone	10.069	43	370873	249.698	ug/l	90
52) Toluene	10.246	92	274323	56.888	ug/l	96
53) t-1,3-Dichloropropene	10.465	75	150996	59.170	ug/l	98
54) cis-1,3-Dichloropropene	9.929	75	157195	57.124	ug/l #	88
55) 1,1,2-Trichloroethane	10.642	97	86990	57.723	ug/l	95
56) Ethyl methacrylate	10.508	69	112428	61.490	ug/l #	82
57) 1,3-Dichloropropane	10.788	76	140806	56.823	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.783	63	243834	261.522	ug/l	95
59) 2-Hexanone	10.831	43	261837	246.726	ug/l	88
60) Dibromochloromethane	10.984	129	105798	58.480	ug/l	99
61) 1,2-Dibromoethane	11.087	107	82729	55.047	ug/l	100
64) Tetrachloroethene	10.721	164	87963	50.917	ug/l	97
65) Chlorobenzene	11.514	112	294958	54.001	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.593	131	113639	56.948	ug/l	97
67) Ethyl Benzene	11.593	91	550096	56.395	ug/l	97
68) m/p-Xylenes	11.703	106	461777	118.832	ug/l	91
69) o-Xylene	12.032	106	214107	59.630	ug/l	92
70) Styrene	12.044	104	385784	63.470	ug/l	94
71) Bromoform	12.209	173	78819	58.185	ug/l #	98
73) Isopropylbenzene	12.331	105	601356	49.988	ug/l	100
74) N-amyl acetate	12.142	43	141465	49.266	ug/l #	84
75) 1,1,2,2-Tetrachloroethane	12.581	83	119805	44.796	ug/l	99
76) 1,2,3-Trichloropropane	12.636	75	91419m	45.119	ug/l	
77) Bromobenzene	12.611	156	134167	48.132	ug/l	96
78) n-propylbenzene	12.672	91	753767	51.003	ug/l	99
79) 2-Chlorotoluene	12.758	91	406217	50.747	ug/l	97
80) 1,3,5-Trimethylbenzene	12.812	105	526520	54.208	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.380	75	41409	44.701	ug/l #	84
82) 4-Chlorotoluene	12.855	91	448578	53.045	ug/l	97
83) tert-Butylbenzene	13.075	119	468090	53.587	ug/l	93
84) 1,2,4-Trimethylbenzene	13.123	105	530759	55.198	ug/l	97
85) sec-Butylbenzene	13.251	105	737228	54.095	ug/l	100
86) p-Isopropyltoluene	13.373	119	625102	56.252	ug/l	98
87) 1,3-Dichlorobenzene	13.367	146	308823	52.727	ug/l	99
88) 1,4-Dichlorobenzene	13.447	146	307419	53.064	ug/l	98
89) n-Butylbenzene	13.696	91	568105	53.859	ug/l	99
90) Hexachloroethane	13.965	117	110358	52.526	ug/l	85
91) 1,2-Dichlorobenzene	13.739	146	270904	52.891	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.355	75	19045	41.648	ug/l	81
93) 1,2,4-Trichlorobenzene	15.007	180	147486	52.731	ug/l	99
94) Hexachlorobutadiene	15.117	225	79338	49.295	ug/l	100
95) Naphthalene	15.239	128	298453	47.732	ug/l	98
96) 1,2,3-Trichlorobenzene	15.428	180	125408	51.040	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Abundance

TIC: VY008857.D\data.ms

Time-->

2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00

2200000
2100000
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1000000
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700000
600000
500000
400000
300000
200000
100000
0

Chemical compounds identified (from left to right):

- Dichlorodifluoromethane, T
- Chloromethane, P
- Vinyl Chloride, C
- Bromomethane, T
- Chloroethane, T
- Trichlorofluoromethane, T
- Diethyl Ether, T
- Acrolein, T
- 1,1,2,2-Tetrachloroethane, T
- Acetone, T
- Methyl sulfide, T
- Methyl acetate, T
- Methylene Chloride, T
- Tert butyl alcohol, T
- Acrylonitrile, T
- Methyl 1,2-Dichloroethane, T
- 1,1-Dichloroethane, P
- Diisopropyl ether, T
- 1,1-Dichloroethane, T
- Ethyl Acetate, T
- Methoxybenzene, T
- Chloroform, C
- Dibromodifluoromethane, T
- 1,1-Dichloroethane, T
- 1,2-Dichloroethane, T
- Isopropyl alcohol, T
- 1,4-Difluorobenzene, I
- Trichloroethene, TM
- 1,1,2,2-Tetrachloroethane, T
- 1,1,2-Trichloroethane, T
- 1,3-Dichloropropane, T
- 1,2-Dibromomethane, T
- 2-Chloroethyl Vinyl ether, T
- cis-1,3-Dichloropropene, T
- 4-Methyl-2-Pentanone, T
- Toluene, CM
- Ethyl methylphosphonate, T
- 1,1,2-Trichloroethane, T
- 1,3-Dichloropropane, T
- Dibromodifluoromethane, T
- 1,2-Dibromomethane, T
- Chlorobenzene, PM
- Ethyl Benzene, T
- Chloroethane, T
- m,p-Xylenes, T
- Bromoforn, T
- N-ethyl acetate, T
- trans-1,4-Dichloro-2-butene, T
- 1,1,2-Trichloroethane, T
- 1,2-Dichloroethane, T
- 2-Chlorobenzene, T
- n-Propylbenzene, T
- 1,3,5-Trimethylbenzene, T
- sec-Butylbenzene, T
- 1,2,4-Trimethylbenzene, T
- 1,4-Dichlorobenzene, T
- 1,2-Dichlorobenzene, T
- n-Butylbenzene, T
- Hexachloroethane, T
- 1,2-Dibromo-3-Chloropropane, T
- 1,2,4-Trichlorobenzene, T
- Hexachlorobutadiene, T
- Naphthalene, I
- 1,2,3-Trichlorobenzene, T