

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091421\
 Data File : VY005997.D
 Acq On : 14 Sep 2021 09:54
 Operator : SY/MD
 Sample : VSTDIC005
 Misc : 5.00G/5ML/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 9/15/2021 5:40:59 PM

Quant Time: Sep 15 04:57:41 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y091421S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 15 04:51:35 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.795	168	148531	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	233228	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	209593	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	92453	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	10418	5.049	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	10.100%#		
35) Dibromofluoromethane	7.722	113	7410	5.115	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	10.240%#		
50) Toluene-d8	10.179	98	30842	4.995	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	10.000%#		
62) 4-Bromofluorobenzene	12.483	95	10559	5.037	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	10.080%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.912	85	8016	5.109	ug/l	88
3) Chloromethane	2.119	50	10104	5.179	ug/l	99
4) Vinyl Chloride	2.259	62	11515	5.227	ug/l	93
5) Bromomethane	2.656	94	7805	5.461	ug/l	91
6) Chloroethane	2.802	64	6691	5.065	ug/l	98
7) Trichlorofluoromethane	3.137	101	14868	5.177	ug/l	94
8) Diethyl Ether	3.540	74	4730	5.010	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.912	101	7565	5.276	ug/l	98
10) Methyl Iodide	4.094	142	6647	4.379	ug/l	99
11) Tert butyl alcohol	4.936	59	19468	46.053	ug/l #	80
12) 1,1-Dichloroethene	3.881	96	8023	5.410	ug/l	90
13) Acrolein	3.735	56	2870	23.151	ug/l	99
14) Allyl chloride	4.491	41	16249	5.133	ug/l	95
15) Acrylonitrile	5.173	53	12419	23.094	ug/l	97
16) Acetone	3.960	43	15347	27.120	ug/l	95
17) Carbon Disulfide	4.204	76	25631	5.175	ug/l	99
18) Methyl Acetate	4.478	43	7662	5.375	ug/l	97
19) Methyl tert-butyl Ether	5.228	73	22463	4.698	ug/l	95
20) Methylene Chloride	4.728	84	15621	7.440	ug/l	91
21) trans-1,2-Dichloroethene	5.228	96	8641	5.196	ug/l	98
22) Diisopropyl ether	6.125	45	31114	5.058	ug/l	98
23) Vinyl Acetate	6.070	43	88605	22.827	ug/l	100
24) 1,1-Dichloroethane	6.027	63	16530	5.245	ug/l	98
25) 2-Butanone	6.990	43	18826	24.137	ug/l	98
26) 2,2-Dichloropropane	6.984	77	16201	5.426	ug/l	99
27) cis-1,2-Dichloroethene	6.990	96	9193	4.955	ug/l	93
28) Bromochloromethane	7.338	49	6811	4.919	ug/l	99
29) Tetrahydrofuran	7.356	42	11249	22.948	ug/l	99
30) Chloroform	7.508	83	16200	5.126	ug/l	96
31) Cyclohexane	7.789	56	19246	5.823	ug/l #	90
32) 1,1,1-Trichloroethane	7.710	97	15139	5.102	ug/l	99
36) 1,1-Dichloropropene	7.923	75	12785	5.079	ug/l	97
37) Ethyl Acetate	7.076	43	8499	4.887	ug/l	97
38) Carbon Tetrachloride	7.905	117	13617	4.969	ug/l	96
39) Methylcyclohexane	9.185	83	15962	5.116	ug/l	98
40) Benzene	8.167	78	36545	5.062	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.326	41	4816m	3.933	ug/l	
42) 1,2-Dichloroethane	8.240	62	12407	4.860	ug/l	98
43) Isopropyl Acetate	8.277	43	14886	4.596	ug/l	99
44) Trichloroethene	8.947	130	8873	4.932	ug/l	95
45) 1,2-Dichloropropane	9.222	63	9042	5.063	ug/l #	86
46) Dibromomethane	9.307	93	4810	4.976	ug/l	98
47) Bromodichloromethane	9.502	83	11941	4.800	ug/l	97
48) Methyl methacrylate	9.301	41	6434	4.299	ug/l	98
49) 1,4-Dioxane	9.295	88	1200	89.960	ug/l	92
51) 4-Methyl-2-Pentanone	10.075	43	38945	22.553	ug/l	99
52) Toluene	10.246	92	21851	4.912	ug/l	100
53) t-1,3-Dichloropropene	10.465	75	12540	4.589	ug/l	99
54) cis-1,3-Dichloropropene	9.929	75	14405	4.887	ug/l	98
55) 1,1,2-Trichloroethane	10.648	97	6376	4.800	ug/l	97
56) Ethyl methacrylate	10.514	69	9181	4.324	ug/l	97
57) 1,3-Dichloropropane	10.794	76	11651	4.759	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.789	63	25912	23.311	ug/l	99
59) 2-Hexanone	10.837	43	25095	21.050	ug/l	100
60) Dibromochloromethane	10.990	129	7500	4.580	ug/l	96
61) 1,2-Dibromoethane	11.093	107	5971	4.759	ug/l	98
64) Tetrachloroethene	10.721	164	9100	5.308	ug/l	94
65) Chlorobenzene	11.520	112	22939	5.115	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.593	131	8471	5.068	ug/l	98
67) Ethyl Benzene	11.593	91	41933	4.919	ug/l	99
68) m/p-Xylenes	11.703	106	32013	9.904	ug/l	98
69) o-Xylene	12.032	106	14674	4.806	ug/l	99
70) Styrene	12.044	104	25065	4.793	ug/l	98
71) Bromoform	12.209	173	4830	4.615	ug/l #	95
73) Isopropylbenzene	12.331	105	39876	5.508	ug/l	99
74) N-amyl acetate	12.142	43	12194	4.878	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.587	83	7167	5.321	ug/l	97
76) 1,2,3-Trichloropropane	12.636	75	5434m	4.677	ug/l	
77) Bromobenzene	12.611	156	8964	5.306	ug/l	95
78) n-propylbenzene	12.672	91	49778	5.557	ug/l	98
79) 2-Chlorotoluene	12.757	91	24314	4.992	ug/l	98
80) 1,3,5-Trimethylbenzene	12.812	105	29752	4.955	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.380	75	2916	5.439	ug/l	90
82) 4-Chlorotoluene	12.855	91	25436	5.053	ug/l	99
83) tert-Butylbenzene	13.075	119	26269	5.115	ug/l	98
84) 1,2,4-Trimethylbenzene	13.123	105	28944	4.859	ug/l	97
85) sec-Butylbenzene	13.251	105	38280	4.980	ug/l	99
86) p-Isopropyltoluene	13.367	119	32306	4.922	ug/l	99
87) 1,3-Dichlorobenzene	13.367	146	15925	4.888	ug/l	99
88) 1,4-Dichlorobenzene	13.446	146	17297	5.293	ug/l	96
89) n-Butylbenzene	13.696	91	30017	4.891	ug/l	98
90) Hexachloroethane	13.958	117	5969	5.054	ug/l	100
91) 1,2-Dichlorobenzene	13.739	146	14017	4.901	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.361	75	1272	4.760	ug/l	95
93) 1,2,4-Trichlorobenzene	15.007	180	8741	4.706	ug/l	97
94) Hexachlorobutadiene	15.117	225	6142	5.111	ug/l	97
95) Naphthalene	15.239	128	15544	4.208	ug/l	98
96) 1,2,3-Trichlorobenzene	15.428	180	7438	4.622	ug/l	96

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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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The chromatogram displays a series of peaks over a 16-minute period. The y-axis represents Abundance from 0 to 500,000, and the x-axis represents Time from 2.00 to 16.00 minutes. The following table lists the labeled compounds and their approximate retention times:

Compound	Approximate Retention Time (min)
Dichlorodifluoromethane, T	2.5
Chloromethane, P	2.8
Vinyl Chloride, C	3.0
Bromomethane, T	3.2
Chloroethane, T	3.5
Trichlorofluoromethane, T	3.8
Diethyl Ether, T	4.0
Acrolein, T	4.2
Acetone, T	4.5
Methylsulfonyl fluoride, T	4.8
Methyl isocyanide, T	5.0
Methylene Chloride, T	5.2
Tert butyl alcohol, T	5.5
Acrylonitrile, T	5.8
1,1-Dichloroethane, T	6.2
1,2-Dichloroethane, T	6.5
1,1,1-Trichloroethane, T	6.8
Ethyl Acetate, T	7.0
2-Butoxyethanol, T	7.2
Methylcyclohexane, T	7.5
Chloroform, C	7.8
Dichlorodifluoromethane, S	8.0
1,3-Dichloropropane, T	8.2
Isobutyl alcohol, T	8.5
1,2-Dichloroethane, T	8.8
1,4-Difluorobenzene, I	9.2
Trichloroethene, TM	9.5
1,1,1-Trichloroethane, T	9.8
Bromodichloromethane, T	10.0
2-Chloroethyl Vinyl ether, T	10.2
cis-1,3-Dichloropropene, T	10.5
4-Methyl-2-Pentanone, T	10.8
Toluene, CM	11.0
1,2-Dichloropropane, T	11.2
1,1,2-Trichloropropane, T	11.5
1,3-Dichloropropane, T	11.8
1,2-Dibromomethane, T	12.0
Chlorobenzene, T	12.2
1,4-Dichlorobenzene, T	12.5
Bromochloroacetylene, T	12.8
Bromochloroacetylene, T	13.0
trans-1,4-Dichloro-2-butadiene, T	13.2
1,3,3-Trichlorobutene, T	13.5
4-Chlorobenzonitrile, T	13.8
tert-Butylbenzene, T	14.0
sec-Butylbenzene, T	14.2
1,2-Dichlorobenzene, T	14.5
Hexachloroethane, T	14.8
1,2-Dibromo-3-Chloropropane, T	15.0
1,2,4-Trichlorobenzene, T	15.2
Hexachlorobutadiene, I	15.5
1,2,3-Trichlorobenzene, T	15.8