

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031121\
 Data File : VX021151.D
 Acq On : 11 Mar 2021 13:12
 Operator : JC/MD
 Sample : VX0311WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0311WBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/12/2021 2:04:39 PM

Quant Time: Mar 12 02:18:59 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022421W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 24 13:50:55 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.629	168	204247	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.829	114	347534	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.094	117	319469	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.059	152	156935	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.029	65	132233	47.93	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	95.86%		
35) Dibromofluoromethane	5.464	113	106766	50.56	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	101.12%		
50) Toluene-d8	8.694	98	413259	50.19	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	100.38%		
62) 4-Bromofluorobenzene	11.118	95	156329	51.35	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	102.70%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.187	85	34019	15.40	ug/l	99
3) Chloromethane	1.311	50	42278	17.23	ug/l	99
4) Vinyl Chloride	1.393	62	48976	17.34	ug/l	99
5) Bromomethane	1.623	94	26959	25.56	ug/l	98
6) Chloroethane	1.711	64	32250	18.25	ug/l	98
7) Trichlorofluoromethane	1.917	101	63793	17.89	ug/l	99
8) Diethyl Ether	2.170	74	29999	18.13	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.364	101	38339	17.45	ug/l	98
10) Methyl Iodide	2.487	142	51126	17.32	ug/l	96
11) Tert butyl alcohol	3.011	59	45823	74.59	ug/l	97
12) 1,1-Dichloroethene	2.358	96	38769	16.96	ug/l	97
13) Acrolein	2.276	56	32133	84.47	ug/l	100
14) Allyl chloride	2.705	41	61492	16.46	ug/l	99
15) Acrylonitrile	3.111	53	114325	87.21	ug/l	98
16) Acetone	2.417	43	95047	83.61	ug/l	100
17) Carbon Disulfide	2.552	76	99414	15.26	ug/l	99
18) Methyl Acetate	2.746	43	48127	17.90	ug/l	97
19) Methyl tert-butyl Ether	3.164	73	141295	17.30	ug/l	99
20) Methylene Chloride	2.835	84	48020	17.61	ug/l	98
21) trans-1,2-Dichloroethene	3.146	96	43131	16.80	ug/l	94
22) Diisopropyl ether	3.823	45	132025	17.58	ug/l	98
23) Vinyl Acetate	3.782	43	535058	83.30	ug/l	99
24) 1,1-Dichloroethane	3.670	63	79402	17.95	ug/l	99
25) 2-Butanone	4.635	43	147318	85.31	ug/l	99
26) 2,2-Dichloropropane	4.547	77	63472	15.80	ug/l	100
27) cis-1,2-Dichloroethene	4.564	96	50986	17.23	ug/l	99
28) Bromochloromethane	4.982	49	33473	17.69	ug/l	98
29) Tetrahydrofuran	5.088	42	93835	84.65	ug/l	99
30) Chloroform	5.176	83	79786	17.90	ug/l	95
31) Cyclohexane	5.553	56	65924	16.50	ug/l	100
32) 1,1,1-Trichloroethane	5.458	97	67290	17.33	ug/l	98
36) 1,1-Dichloropropene	5.770	75	60743	18.39	ug/l	99
37) Ethyl Acetate	4.794	43	56131	17.86	ug/l	99
38) Carbon Tetrachloride	5.753	117	55912	17.47	ug/l	98
39) Methylcyclohexane	7.441	83	71822	17.34	ug/l	98
40) Benzene	6.111	78	182498	18.43	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	5.000	41	32649	18.47	ug/l	100
42) 1,2-Dichloroethane	6.159	62	64888	19.71	ug/l	99
43) Isopropyl Acetate	6.412	43	91450	17.11	ug/l	99
44) Trichloroethene	7.188	130	49739	19.11	ug/l	90
45) 1,2-Dichloropropane	7.488	63	47470	19.13	ug/l	100
46) Dibromomethane	7.635	93	32002	19.15	ug/l	99
47) Bromodichloromethane	7.876	83	65333	18.77	ug/l	96
48) Methyl methacrylate	7.747	41	47809	17.83	ug/l	99
49) 1,4-Dioxane	7.712	88	23944	382.53	ug/l	97
51) 4-Methyl-2-Pentanone	8.618	43	289777	93.10	ug/l	99
52) Toluene	8.765	92	120215	19.50	ug/l	98
53) t-1,3-Dichloropropene	9.024	75	68090	17.45	ug/l	100
54) cis-1,3-Dichloropropene	8.412	75	76584	17.91	ug/l	99
55) 1,1,2-Trichloroethane	9.194	97	48498	19.90	ug/l	99
56) Ethyl methacrylate	9.159	69	69861	17.71	ug/l	98
57) 1,3-Dichloropropane	9.353	76	82892	19.83	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.288	63	187449	97.19	ug/l	99
59) 2-Hexanone	9.471	43	220091	94.25	ug/l	99
60) Dibromochloromethane	9.565	129	50693	19.72	ug/l	99
61) 1,2-Dibromoethane	9.653	107	50119	19.62	ug/l	97
64) Tetrachloroethene	9.318	164	50438	21.88	ug/l	92
65) Chlorobenzene	10.118	112	125250	18.62	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.206	131	44620	17.98	ug/l	97
67) Ethyl Benzene	10.236	91	223632	18.33	ug/l	99
68) m/p-Xylenes	10.341	106	170789	38.05	ug/l	99
69) o-Xylene	10.683	106	81706	18.65	ug/l	99
70) Styrene	10.694	104	143103	19.04	ug/l	98
71) Bromoform	10.841	173	34848	18.17	ug/l #	99
73) Isopropylbenzene	11.000	105	222261	17.93	ug/l	100
74) N-amyl acetate	10.883	43	79320	15.80	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.253	83	71229	17.83	ug/l	99
76) 1,2,3-Trichloropropane	11.277	75	61622m	18.25	ug/l	
77) Bromobenzene	11.236	156	55700	19.31	ug/l	96
78) n-propylbenzene	11.342	91	251839	17.82	ug/l	99
79) 2-Chlorotoluene	11.406	91	151393	17.68	ug/l	99
80) 1,3,5-Trimethylbenzene	11.489	105	183500	17.79	ug/l	95
81) trans-1,4-Dichloro-2-b...	11.059	75	21610	14.17	ug/l	95
82) 4-Chlorotoluene	11.495	91	175883	17.82	ug/l	99
83) tert-Butylbenzene	11.753	119	167899	16.73	ug/l	94
84) 1,2,4-Trimethylbenzene	11.789	105	186316	17.80	ug/l	99
85) sec-Butylbenzene	11.930	105	211378	17.88	ug/l	100
86) p-Isopropyltoluene	12.048	119	192548	17.77	ug/l	98
87) 1,3-Dichlorobenzene	12.006	146	98212	19.02	ug/l	99
88) 1,4-Dichlorobenzene	12.083	146	95697	18.19	ug/l	95
89) n-Butylbenzene	12.371	91	163450	16.89	ug/l	99
90) Hexachloroethane	12.577	117	33230	16.06	ug/l	90
91) 1,2-Dichlorobenzene	12.377	146	95171	18.88	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.983	75	14637	16.00	ug/l	96
93) 1,2,4-Trichlorobenzene	13.624	180	55241	17.09	ug/l	97
94) Hexachlorobutadiene	13.765	225	21789	16.83	ug/l	95
95) Naphthalene	13.818	128	187391	16.28	ug/l	100
96) 1,2,3-Trichlorobenzene	14.001	180	54901	17.10	ug/l	97

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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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TIC: VX021151.D\data.ms

The chromatogram displays a complex mixture of compounds. Key peaks include:

- Early Eluting Compounds (0-4 min):** Dichlorodifluoromethane, Chloroacetaldehyde, Bromopropane, Trichlorofluoromethane, Diethyl Ether, Acrolein, Methyl chlorosulfide, Methyl acetate, Methylene chloride, Tert butyl alcohol, Vinyl acetate.
- Middle Eluting Compounds (4-8 min):** 1,1-Dichloroethane, Disopropyl ether, 2-Butanone, Ethyl acetate, Benzene, Chlorobenzene, Cyclohexane, Perfluorobenzene, Carbon disulfide, 1,2-Dichloroethane-d4, Isopropyl acetate, 1,4-Difluorobenzene.
- Late Eluting Compounds (8-14 min):** Trichloroethene, 1,2-Dibromocyclohexane, Dioxane, Bromochloromethane, cis-1,3-Dichloropropene, 2-Chloroethyl vinyl ether, 4-Methyl-2-Pentanone, Toluene-d8, 2-Hexanone, 2-Chlorobenzene, m/p-Xylenes, Chlorobenzene-d5, StyreneXylene, N-amyl acetate, Isopropylbenzene, 4-Bromofluorobenzene, n-propylbenzene, 2-Chlorotoluene, 1,2,4-Trimethylbenzene, p-Propyltoluene, 1,4-Dichlorobenzene, Hexachloroethane, 1,2-Dibromo-3-Chloropropane, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, 1,2,3-Trichlorobenzene.