

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121222\
 Data File : VX033367.D
 Acq On : 12 Dec 2022 12:07
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/13/2022
 Supervised By : Mahesh Dadoda 12/13/2022

Quant Time: Dec 12 12:33:43 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:25:09 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	14089	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	100775	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	111395	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	35918	26.426	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	88.100%#		
60) 4-Bromofluorobenzene	11.079	95	60484	28.385	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	94.633%		
63) Toluene-d8	8.653	98	108812	28.944	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.467%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	151049	121.138	ug/l	98
3) Chloromethane	1.295	50	156250	126.277	ug/l	98
4) Vinyl Chloride	1.374	62	184289	131.719	ug/l	99
5) Bromomethane	1.618	94	132335	106.540	ug/l	98
6) Chloroethane	1.691	64	115127	104.178	ug/l	92
7) Trichlorofluoromethane	1.886	101	343179	127.241	ug/l	100
8) Diethyl Ether	2.136	74	83589	95.857	ug/l	83
9) 1,1,2-Trichlorotrifluo...	2.331	101	136591	95.207	ug/l	97
10) 1,1-Dichloroethene	2.319	96	130448	95.177	ug/l	95
11) Methyl Iodide	2.453	142	172562	117.111	ug/l	95
12) Methyl Acetate	2.703	43	257427	126.793	ug/l	90
13) Acrolein	2.240	56	155436	574.114	ug/l	98
14) Acrylonitrile	3.069	53	467095	641.772	ug/l	99
15) Acetone	2.392	58	104351	551.368	ug/l	97
16) Carbon Disulfide	2.514	76	418124	122.548	ug/l	98
17) Allyl chloride	2.666	41	294830	135.381	ug/l	94
18) Methylene Chloride	2.794	84	207093	131.018	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	212989	141.071	ug/l	89
20) Diisopropyl ether	3.758	45	607014	124.304	ug/l	92
21) 1,1-Dichloroethane	3.611	63	363930	132.757	ug/l	96
22) cis-1,2-Dichloroethene	4.489	96	248399	140.909	ug/l	93
23) tert-Butyl Alcohol	3.093	59	181771m	769.176	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	655033	133.467	ug/l	96
25) Chloroform	5.093	83	403782	132.063	ug/l	98
26) Cyclohexane	5.471	56	315393	131.744	ug/l #	87
29) 1,1-Dichloropropene	5.696	75	293136	131.156	ug/l	98
30) 2-Butanone	4.562	43	656662	630.114	ug/l	94
31) 2,2-Dichloropropane	4.477	77	309564	161.951	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	372270	132.414	ug/l	97
33) Carbon Tetrachloride	5.678	117	336599	136.359	ug/l	99
34) Benzene	6.044	78	839317	133.281	ug/l	98
35) Methacrylonitrile	4.922	41	142644	120.853	ug/l	95
36) 1,2-Dichloroethane	6.086	62	306511	118.231	ug/l	95
37) Trichloroethene	7.129	130	244791	138.948	ug/l	96
38) Methylcyclohexane	7.385	83	349795	139.685	ug/l	91
39) 1,2-Dichloropropane	7.434	63	211257	132.532	ug/l	96
40) Dibromomethane	7.580	93	158755	130.444	ug/l	98
41) Bromodichloromethane	7.824	83	323426	139.425	ug/l	98
42) Vinyl Acetate	3.727	43	2408447	601.452	ug/l	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	250585	119.533	ug/l #	87
44) Isopropyl Acetate	6.342	43	426200	121.316	ug/l	99
45) 1,4-Dioxane	7.708	88	92502	2741.237	ug/l	90
46) Methyl methacrylate	7.690	41	214405	121.231	ug/l	85
47) n-amyl Acetate	10.842	43	364096	116.580	ug/l	96
48) t-1,3-Dichloropropene	8.976	75	347208	145.898	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	368514	146.650	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	225933	135.020	ug/l	96
51) Ethyl methacrylate	9.116	69	335123	134.099	ug/l	90
52) 1,3-Dichloropropane	9.311	76	359749	131.499	ug/l	100
53) Dibromochloromethane	9.525	129	269214	147.937	ug/l	99
54) 1,2-Dibromoethane	9.610	107	246605	136.816	ug/l	100
55) 2-Chloroethyl vinyl ether	8.245	63	780343	646.142	ug/l	95
56) Bromoform	10.799	173	197034	151.230	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	1240687	568.956	ug/l	97
59) 2-Hexanone	9.433	43	916779	571.007	ug/l	97
61) Tetrachloroethene	9.275	164	206433	132.600	ug/l	96
62) Toluene	8.720	91	960205	132.545	ug/l	99
64) Chlorobenzene	10.080	112	608007	135.753	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	239574	140.418	ug/l	99
66) Ethyl Benzene	10.195	91	1089917	134.111	ug/l	98
67) m/p-Xylenes	10.305	106	859974	271.954	ug/l	95
68) o-Xylene	10.640	106	416181	134.130	ug/l	96
69) Styrene	10.659	104	700610	135.817	ug/l	97
70) Isopropylbenzene	10.964	105	1091776	131.765	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	312574	124.394	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	274987m	126.005	ug/l	
73) Bromobenzene	11.201	156	270790	134.529	ug/l	91
74) n-propylbenzene	11.305	91	1260700	133.914	ug/l	97
75) 2-Chlorotoluene	11.366	91	736855	129.274	ug/l	95
76) 1,3,5-Trimethylbenzene	11.451	105	917996	131.057	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	105207	157.982	ug/l	91
78) 4-Chlorotoluene	11.457	91	853056	129.925	ug/l	96
79) tert-butylbenzene	11.713	119	902608	132.599	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	894679	130.637	ug/l	96
81) sec-Butylbenzene	11.890	105	1090387	133.053	ug/l	97
82) p-Isopropyltoluene	12.012	119	931536	134.879	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	494851	134.000	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	497288	134.094	ug/l	99
85) n-Butylbenzene	12.335	91	809057	138.214	ug/l	97
86) Hexachloroethane	12.543	117	168900	148.969	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	478636	130.377	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	71289	133.725	ug/l	90
89) 1,2,4-Trichlorobenzene	13.585	180	324459	143.908	ug/l	99
90) Hexachlorobutadiene	13.725	225	129576	142.791	ug/l	100
91) Naphthalene	13.774	128	1042306	136.968	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	320319	141.258	ug/l	97

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

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