

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100623\
 Data File : VX038148.D
 Acq On : 07 Oct 2023 00:15
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Oct 07 06:18:59 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X100623W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Oct 07 06:04:00 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/09/2023
 Supervised By : Mahesh Dadoda 10/09/2023

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

Internal Standards						
1) Bromochloromethane	4.897	128	14113	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	104320	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	140716	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	53756	27.881	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	92.933%		
60) 4-Bromofluorobenzene	11.079	95	87386	29.811	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.367%		
63) Toluene-d8	8.653	98	162301	29.786	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.300%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	235492	138.658	ug/l	99
3) Chloromethane	1.300	50	213727	127.053	ug/l	95
4) Vinyl Chloride	1.374	62	258101	130.988	ug/l	98
5) Bromomethane	1.599	94	321085	134.673	ug/l	98
6) Chloroethane	1.672	64	229264	136.604	ug/l	94
7) Trichlorofluoromethane	1.880	101	569319	135.660	ug/l	100
8) Diethyl Ether	2.136	74	208888	136.442	ug/l	84
9) 1,1,2-Trichlorotrifluo...	2.325	101	225439	140.639	ug/l	97
10) 1,1-Dichloroethene	2.312	96	225269	144.246	ug/l	96
11) Methyl Iodide	2.447	142	332167	142.733	ug/l	97
12) Methyl Acetate	2.703	43	699137	131.540	ug/l	99
13) Acrolein	2.239	56	265028	795.430	ug/l	96
14) Acrylonitrile	3.068	53	870376	698.724	ug/l	97
15) Acetone	2.380	58	226889	684.042	ug/l	96
16) Carbon Disulfide	2.508	76	638020	152.893	ug/l	98
17) Allyl chloride	2.660	41	382687	145.821	ug/l	97
18) Methylene Chloride	2.788	84	281034	138.018	ug/l	95
19) trans-1,2-Dichloroethene	3.087	96	282080	144.232	ug/l	98
20) Diisopropyl ether	3.763	45	821703	142.676	ug/l	96
21) 1,1-Dichloroethane	3.611	63	489129	139.553	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	329209	142.926	ug/l	95
23) tert-Butyl Alcohol	2.983	59	394461m	719.235	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	902689	147.240	ug/l	98
25) Chloroform	5.099	83	561563	141.100	ug/l	100
26) Cyclohexane	5.470	56	415321	140.080	ug/l #	95
29) 1,1-Dichloropropene	5.690	75	400419	145.078	ug/l	98
30) 2-Butanone	4.556	43	1235863	696.644	ug/l	96
31) 2,2-Dichloropropane	4.477	77	309560	151.827	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	502888	152.487	ug/l	98
33) Carbon Tetrachloride	5.678	117	435474	155.851	ug/l	98
34) Benzene	6.037	78	1170531	143.366	ug/l	98
35) Methacrylonitrile	4.922	41	242107	145.773	ug/l	94
36) 1,2-Dichloroethane	6.086	62	443467	140.004	ug/l	99
37) Trichloroethene	7.123	130	313350	145.721	ug/l	98
38) Methylcyclohexane	7.379	83	485950	147.811	ug/l	95
39) 1,2-Dichloropropane	7.427	63	293336	143.326	ug/l	94
40) Dibromomethane	7.580	93	235046	146.972	ug/l	98
41) Bromodichloromethane	7.824	83	438736	153.034	ug/l	99
42) Vinyl Acetate	3.721	43	2960846	758.305	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	476751	145.281	ug/l	98
44) Isopropyl Acetate	6.342	43	737937	151.057	ug/l	97
45) 1,4-Dioxane	7.665	88	170217	2741.892	ug/l #	1
46) Methyl methacrylate	7.696	41	349315	145.033	ug/l	95
47) n-amyl Acetate	10.841	43	656032	154.689	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	480388	163.017	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	491726	157.386	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	327594	145.091	ug/l	97
51) Ethyl methacrylate	9.116	69	520325	153.879	ug/l	98
52) 1,3-Dichloropropane	9.311	76	524756	142.918	ug/l	99
53) Dibromochloromethane	9.525	129	363622	162.571	ug/l	100
54) 1,2-Dibromoethane	9.610	107	369178	149.634	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	1303433	763.712	ug/l	97
56) Bromoform	10.799	173	280839	168.007	ug/l	99
58) 4-Methyl-2-Pentanone	8.580	43	2449321	695.417	ug/l	94
59) 2-Hexanone	9.433	43	1946851	687.522	ug/l	94
61) Tetrachloroethene	9.275	164	283475	147.434	ug/l	98
62) Toluene	8.720	91	1383889	147.607	ug/l	98
64) Chlorobenzene	10.079	112	853873	145.437	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	318640	155.692	ug/l	99
66) Ethyl Benzene	10.195	91	1562033	146.928	ug/l	97
67) m/p-Xylenes	10.305	106	1243718	301.556	ug/l	99
68) o-Xylene	10.640	106	608355	152.020	ug/l	98
69) Styrene	10.659	104	1025064	154.153	ug/l	99
70) Isopropylbenzene	10.963	105	1573762	149.121	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	545005	140.107	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	495475m	140.053	ug/l	
73) Bromobenzene	11.201	156	381015	145.801	ug/l	95
74) n-propylbenzene	11.305	91	1868837	145.718	ug/l	99
75) 2-Chlorotoluene	11.366	91	1087166	144.266	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	1389671	150.683	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	166827	173.238	ug/l	89
78) 4-Chlorotoluene	11.457	91	1317039	146.964	ug/l	98
79) tert-butylbenzene	11.713	119	1314797	150.077	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	1335209	148.278	ug/l	99
81) sec-Butylbenzene	11.890	105	1688009	147.284	ug/l	99
82) p-Isopropyltoluene	12.012	119	1420820	149.960	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	733467	143.913	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	757680	146.007	ug/l	99
85) n-Butylbenzene	12.335	91	1350527	149.388	ug/l	100
86) Hexachloroethane	12.536	117	253847	162.072	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	724284	146.614	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	139011	154.310	ug/l	92
89) 1,2,4-Trichlorobenzene	13.591	180	484554	151.090	ug/l	100
90) Hexachlorobutadiene	13.725	225	184761	143.224	ug/l	97
91) Naphthalene	13.774	128	1687921	153.679	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	477849	152.216	ug/l	99

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

