

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100623\
 Data File : VX038146.D
 Acq On : 06 Oct 2023 23:29
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Quant Time: Oct 07 06:16:31 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	4.904	128	11166	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	84235	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	117020	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	46900	30.745	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.500%			
60) 4-Bromofluorobenzene	11.079	95	75925	31.146	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.833%			
63) Toluene-d8	8.647	98	134143	29.603	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.667%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	68741	51.157	ug/l	98
3) Chloromethane	1.300	50	66217	49.753	ug/l	96
4) Vinyl Chloride	1.374	62	78356	50.262	ug/l	97
5) Bromomethane	1.593	94	102255	54.208	ug/l	97
6) Chloroethane	1.685	64	66105	49.783	ug/l	92
7) Trichlorofluoromethane	1.886	101	167302	50.387	ug/l	100
8) Diethyl Ether	2.130	74	60434	49.893	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.331	101	62659	49.406	ug/l	97
10) 1,1-Dichloroethene	2.319	96	61934	50.125	ug/l	98
11) Methyl Iodide	2.453	142	93364	50.707	ug/l	98
12) Methyl Acetate	2.703	43	199328	47.401	ug/l	99
13) Acrolein	2.233	56	68995	261.728	ug/l	96
14) Acrylonitrile	3.062	53	251480	255.167	ug/l	97
15) Acetone	2.380	58	66287	252.592	ug/l	92
16) Carbon Disulfide	2.514	76	166664	50.480	ug/l	99
17) Allyl chloride	2.666	41	107232	51.644	ug/l	92
18) Methylene Chloride	2.788	84	78293	48.598	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	76659	49.542	ug/l	99
20) Diisopropyl ether	3.757	45	236369	51.874	ug/l #	86
21) 1,1-Dichloroethane	3.611	63	141278	50.946	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	92067	50.520	ug/l	97
23) tert-Butyl Alcohol	2.959	59	112854	260.079	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	245266	50.565	ug/l	98
25) Chloroform	5.093	83	163199	51.828	ug/l	99
26) Cyclohexane	5.477	56	122482	52.214	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	116057	52.075	ug/l	99
30) 2-Butanone	4.556	43	372803	260.253	ug/l	97
31) 2,2-Dichloropropane	4.477	77	84928	51.586	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	137923	51.793	ug/l	99
33) Carbon Tetrachloride	5.678	117	117702	52.168	ug/l	97
34) Benzene	6.037	78	341220	51.757	ug/l	98
35) Methacrylonitrile	4.922	41	70271	52.399	ug/l	94
36) 1,2-Dichloroethane	6.086	62	133601	52.235	ug/l	99
37) Trichloroethene	7.129	130	88877	51.186	ug/l	97
38) Methylcyclohexane	7.379	83	136927	51.580	ug/l	96
39) 1,2-Dichloropropane	7.434	63	86345	52.248	ug/l	96
40) Dibromomethane	7.580	93	67086	51.950	ug/l	97
41) Bromodichloromethane	7.824	83	121601	52.529	ug/l	97
42) Vinyl Acetate	3.721	43	860094	272.803	ug/l	100

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43) Ethyl Acetate	4.715	43	139049	52.476	ug/l	98
44) Isopropyl Acetate	6.342	43	210904	53.466	ug/l	99
45) 1,4-Dioxane	7.659	88	53028	1057.859	ug/l #	1
46) Methyl methacrylate	7.696	41	102108	52.503	ug/l	97
47) n-amyl Acetate	10.841	43	197108	57.559	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	130024	54.644	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	133274	52.828	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	95539	52.404	ug/l	99
51) Ethyl methacrylate	9.116	69	147707	54.098	ug/l	96
52) 1,3-Dichloropropane	9.311	76	155855	52.568	ug/l	100
53) Dibromochloromethane	9.525	129	99201	54.927	ug/l	100
54) 1,2-Dibromoethane	9.610	107	107117	53.769	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	348834	253.125	ug/l	99
56) Bromoform	10.799	173	74720	55.358	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	755103	257.804	ug/l	97
59) 2-Hexanone	9.427	43	621977	264.126	ug/l	98
61) Tetrachloroethene	9.275	164	80410	50.289	ug/l	97
62) Toluene	8.720	91	400088	51.315	ug/l	99
64) Chlorobenzene	10.079	112	250579	51.323	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	90401	53.116	ug/l	99
66) Ethyl Benzene	10.195	91	458998	51.917	ug/l	99
67) m/p-Xylenes	10.299	106	357805	104.322	ug/l	97
68) o-Xylene	10.640	106	175699	52.795	ug/l	96
69) Styrene	10.652	104	294528	53.261	ug/l	99
70) Isopropylbenzene	10.963	105	461800	52.618	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	172146	53.216	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	156564m	53.216	ug/l	
73) Bromobenzene	11.195	156	113459	52.208	ug/l	97
74) n-propylbenzene	11.305	91	562045	52.698	ug/l	99
75) 2-Chlorotoluene	11.366	91	328047	52.346	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	404066	52.685	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	45387	56.675	ug/l	94
78) 4-Chlorotoluene	11.457	91	392149	52.620	ug/l	100
79) tert-butylbenzene	11.713	119	389811	53.505	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	398960	53.277	ug/l	98
81) sec-Butylbenzene	11.890	105	510326	53.544	ug/l	98
82) p-Isopropyltoluene	12.006	119	423105	53.699	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	221109	52.169	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	226524	52.491	ug/l	99
85) n-Butylbenzene	12.335	91	399103	53.086	ug/l	99
86) Hexachloroethane	12.536	117	71968	55.253	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	215436	52.441	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	42130	56.237	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	138371	51.883	ug/l	99
90) Hexachlorobutadiene	13.725	225	56242	52.426	ug/l	97
91) Naphthalene	13.774	128	490200	53.669	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	136619	52.331	ug/l	99

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

