

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112423\
 Data File : VX039026.D
 Acq On : 24 Nov 2023 15:55
 Operator : JC/MD
 Sample : 04699-07 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2023

Quant Time: Nov 27 03:48:13 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/27/2023
 Supervised By :Mahesh Dadoda 11/27/2023

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

Internal Standards						
1) Bromochloromethane	4.897	128	9142	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	75404	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	92361	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	42055	33.626	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 112.100%#			
60) 4-Bromofluorobenzene	11.079	95	58955	29.224	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.400%			
63) Toluene-d8	8.646	98	112477	30.802	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.667%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	3547	2.592	ug/l	91
3) Chloromethane	1.294	50	4301	2.745	ug/l	96
4) Vinyl Chloride	1.373	62	4530	2.864	ug/l	89
5) Bromomethane	1.605	94	3272	3.382	ug/l	92
6) Chloroethane	1.690	64	2801	3.041	ug/l	98
7) Trichlorofluoromethane	1.886	101	6107	2.797	ug/l	94
8) Diethyl Ether	2.135	74	2414	2.881	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	3439	2.788	ug/l	98
10) 1,1-Dichloroethene	2.318	96	3539	2.846	ug/l	91
11) Methyl Iodide	2.452	142	3585	2.631	ug/l	89
12) Methyl Acetate	2.702	43	11583	2.987	ug/l	99
13) Acrolein	2.233	56	5299	15.596	ug/l	95
14) Acrylonitrile	3.062	53	13478	14.209	ug/l	99
15) Acetone	2.379	58	4726	13.706	ug/l	94
16) Carbon Disulfide	2.513	76	10705	2.842	ug/l	98
17) Allyl chloride	2.666	41	7428	3.009	ug/l	96
18) Methylene Chloride	2.788	84	4925	3.341	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	3845	2.734	ug/l	90
20) Diisopropyl ether	3.757	45	13290	2.829	ug/l #	84
21) 1,1-Dichloroethane	3.605	63	7542	2.888	ug/l	99
22) cis-1,2-Dichloroethene	4.501	96	4466m	2.740	ug/l	
23) tert-Butyl Alcohol	2.946	59	9688	18.449	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	12798	2.794	ug/l	92
25) Chloroform	5.098	83	7369m	2.811	ug/l	
26) Cyclohexane	5.464	56	7195	3.044	ug/l #	91
29) 1,1-Dichloropropene	5.696	75	5815	2.751	ug/l	83
30) 2-Butanone	4.562	43	21532	13.530	ug/l	97
31) 2,2-Dichloropropane	4.476	77	5932	2.454	ug/l #	77
32) 1,1,1-Trichloroethane	5.391	97	6318	2.586	ug/l	94
33) Carbon Tetrachloride	5.671	117	4781	2.323	ug/l	91
34) Benzene	6.043	78	15735	2.555	ug/l #	88
35) Methacrylonitrile	4.922	41	3669m	2.603	ug/l	
36) 1,2-Dichloroethane	6.098	62	5948	2.633	ug/l	96
37) Trichloroethene	7.128	130	4045	2.588	ug/l	99
38) Methylcyclohexane	7.385	83	6609	2.509	ug/l	95
39) 1,2-Dichloropropane	7.433	63	4253	2.619	ug/l	99
40) Dibromomethane	7.580	93	2847	2.481	ug/l	98
41) Bromodichloromethane	7.823	83	5598	2.540	ug/l	93
42) Vinyl Acetate	3.727	43	48030	12.671	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.720	43	7630m	2.787	ug/l	
44) Isopropyl Acetate	6.342	43	10625	2.462	ug/l	100
45) 1,4-Dioxane	7.665	88	2367	53.720	ug/l	95
46) Methyl methacrylate	7.695	41	6049	2.451	ug/l	98
47) n-amyl Acetate	10.841	43	7700	2.108	ug/l	94
48) t-1,3-Dichloropropene	8.982	75	6038	2.362	ug/l	91
49) cis-1,3-Dichloropropene	8.372	75	6607	2.506	ug/l #	78
50) 1,1,2-Trichloroethane	9.152	97	3931	2.522	ug/l	91
51) Ethyl methacrylate	9.122	69	4746	2.432	ug/l	93
52) 1,3-Dichloropropane	9.311	76	6850	2.563	ug/l	100
53) Dibromochloromethane	9.518	129	3790	2.264	ug/l	99
54) 1,2-Dibromoethane	9.610	107	4139	2.421	ug/l	96
55) 2-Chloroethyl vinyl ether	8.244	63	15711	12.704	ug/l	99
56) Bromoform	10.799	173	2530	2.094	ug/l	100
58) 4-Methyl-2-Pentanone	8.573	43	38102	13.604	ug/l	98
59) 2-Hexanone	9.433	43	28936	12.586	ug/l	99
61) Tetrachloroethene	9.274	164	3164	2.635	ug/l	96
62) Toluene	8.720	91	17374	2.650	ug/l	99
64) Chlorobenzene	10.079	112	10670	2.675	ug/l	91
65) 1,1,1,2-Tetrachloroethane	10.158	131	3574	2.488	ug/l	99
66) Ethyl Benzene	10.195	91	18951	2.538	ug/l	100
67) m/p-Xylenes	10.299	106	14132	5.122	ug/l	98
68) o-Xylene	10.640	106	6862	2.567	ug/l	96
69) Styrene	10.658	104	9154	2.314	ug/l	93
70) Isopropylbenzene	10.963	105	18356	2.567	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	6715	2.515	ug/l	97
72) 1,2,3-Trichloropropane	11.237	75	6237m	2.761	ug/l	
73) Bromobenzene	11.201	156	4016	2.467	ug/l	99
74) n-propylbenzene	11.305	91	22685	2.589	ug/l	96
75) 2-Chlorotoluene	11.366	91	13175	2.563	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	14653	2.379	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	1664	1.859	ug/l	81
78) 4-Chlorotoluene	11.457	91	15270	2.527	ug/l	99
79) tert-butylbenzene	11.713	119	13970	2.385	ug/l	93
80) 1,2,4-Trimethylbenzene	11.756	105	14418	2.338	ug/l	100
81) sec-Butylbenzene	11.890	105	18115	2.446	ug/l	100
82) p-Isopropyltoluene	12.012	119	14762	2.352	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	7555	2.425	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	8183	2.560	ug/l	97
85) n-Butylbenzene	12.335	91	15126	2.440	ug/l	93
86) Hexachloroethane	12.536	117	2535	2.132	ug/l	91
87) 1,2-Dichlorobenzene	12.335	146	7379	2.463	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.944	75	1656	2.426	ug/l	90
89) 1,2,4-Trichlorobenzene	13.591	180	4698	2.365	ug/l	96
90) Hexachlorobutadiene	13.719	225	1567	2.209	ug/l	97
91) Naphthalene	13.780	128	17472	2.385	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	4546	2.363	ug/l	98

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

