

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030524\
 Data File : VX040590.D
 Acq On : 05 Mar 2024 15:50
 Operator : JC/MD
 Sample : P1187-08 5.0PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT1-2024

Quant Time: Mar 06 00:13:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 03/06/2024
 Supervised By :Mahesh Dadoda 03/06/2024

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

Internal Standards						
1) Bromochloromethane	4.898	128	16247	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	88766	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	84153	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	46388	28.588	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.300%		
60) 4-Bromofluorobenzene	11.079	95	38807	26.884	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	89.600%		
63) Toluene-d8	8.647	98	111221	29.907	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.700%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	6035	5.477	ug/l	96
3) Chloromethane	1.295	50	5907	5.232	ug/l	97
4) Vinyl Chloride	1.374	62	6246	5.119	ug/l	98
5) Bromomethane	1.599	94	4434	5.950	ug/l	95
6) Chloroethane	1.685	64	3992	5.569	ug/l	95
7) Trichlorofluoromethane	1.886	101	9309	5.011	ug/l	99
8) Diethyl Ether	2.136	74	3100	4.914	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	5245	5.154	ug/l	93
10) 1,1-Dichloroethene	2.319	96	5071	5.234	ug/l	95
11) Methyl Iodide	2.447	142	5051	4.310	ug/l	99
12) Methyl Acetate	2.703	43	7331	4.594	ug/l	94
13) Acrolein	2.233	56	7498	24.921	ug/l	100
14) Acrylonitrile	3.063	53	15614	24.846	ug/l	99
15) Acetone	2.380	58	4592	25.563	ug/l	69
16) Carbon Disulfide	2.508	76	13316	5.001	ug/l	98
17) Allyl chloride	2.660	41	9136	5.110	ug/l	95
18) Methylene Chloride	2.794	84	6756	6.108	ug/l	90
19) trans-1,2-Dichloroethene	3.087	96	5173	4.891	ug/l	92
20) Diisopropyl ether	3.764	45	17156	4.798	ug/l	98
21) 1,1-Dichloroethane	3.611	63	10404	5.056	ug/l	96
22) cis-1,2-Dichloroethene	4.495	96	6215	5.060	ug/l	96
23) tert-Butyl Alcohol	2.959	59	7776	26.189	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	17398	4.866	ug/l	92
25) Chloroform	5.099	83	10908	4.844	ug/l	96
26) Cyclohexane	5.471	56	8379	5.046	ug/l #	58
29) 1,1-Dichloropropene	5.696	75	8088	5.264	ug/l	96
30) 2-Butanone	4.556	43	24213	25.825	ug/l #	93
31) 2,2-Dichloropropane	4.471	77	8561	5.162	ug/l	94
32) 1,1,1-Trichloroethane	5.379	97	9293	4.800	ug/l	93
33) Carbon Tetrachloride	5.678	117	7721	4.740	ug/l	86
34) Benzene	6.038	78	22169	5.345	ug/l	96
35) Methacrylonitrile	4.922	41	5360	5.569	ug/l	86
36) 1,2-Dichloroethane	6.086	62	10140	5.287	ug/l #	84
37) Trichloroethene	7.129	130	6116	5.487	ug/l	95
38) Methylcyclohexane	7.379	83	8418	5.088	ug/l	93
39) 1,2-Dichloropropane	7.434	63	5468	5.178	ug/l	98
40) Dibromomethane	7.580	93	4847	5.842	ug/l	98
41) Bromodichloromethane	7.824	83	8325	5.044	ug/l #	99
42) Vinyl Acetate	3.721	43	79322	24.572	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	8812	4.990	ug/l #	78
44) Isopropyl Acetate	6.348	43	13454	4.773	ug/l #	82
45) 1,4-Dioxane	7.665	88	2674	92.292	ug/l #	90
46) Methyl methacrylate	7.696	41	6908	4.934	ug/l	96
47) n-amyl Acetate	10.842	43	9962	4.101	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	7969	4.568	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	8758	4.928	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	5695	5.168	ug/l	94
51) Ethyl methacrylate	9.116	69	8242	4.750	ug/l	94
52) 1,3-Dichloropropane	9.311	76	10160	5.403	ug/l	97
53) Dibromochloromethane	9.519	129	5699	4.536	ug/l	93
54) 1,2-Dibromoethane	9.610	107	6131	5.028	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	21280	24.085	ug/l	99
56) Bromoform	10.799	173	3642	4.087	ug/l #	98
58) 4-Methyl-2-Pentanone	8.574	43	47923	25.574	ug/l	98
59) 2-Hexanone	9.427	43	37091	24.505	ug/l	95
61) Tetrachloroethene	9.275	164	5596	5.603	ug/l	92
62) Toluene	8.720	91	23958	5.169	ug/l	100
64) Chlorobenzene	10.080	112	14820	5.232	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	5337	4.939	ug/l	99
66) Ethyl Benzene	10.195	91	26934	5.040	ug/l	98
67) m/p-Xylenes	10.299	106	19848	10.058	ug/l	96
68) o-Xylene	10.640	106	8953	4.713	ug/l	98
69) Styrene	10.659	104	14302	4.481	ug/l	99
70) Isopropylbenzene	10.964	105	24152	4.705	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	8499	4.723	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	7293m	4.504	ug/l	
73) Bromobenzene	11.201	156	5828	4.796	ug/l	91
74) n-propylbenzene	11.305	91	29254	4.614	ug/l	99
75) 2-Chlorotoluene	11.366	91	18332	4.873	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	20468	4.529	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	1927	3.830	ug/l	80
78) 4-Chlorotoluene	11.457	91	20402	4.546	ug/l	100
79) tert-butylbenzene	11.713	119	18572	4.403	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	20999	4.716	ug/l	97
81) sec-Butylbenzene	11.890	105	25639	4.604	ug/l	98
82) p-Isopropyltoluene	12.006	119	20681	4.537	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	11602	4.907	ug/l	95
84) 1,4-Dichlorobenzene	12.043	146	11788	4.875	ug/l	99
85) n-Butylbenzene	12.335	91	21381	4.820	ug/l	97
86) Hexachloroethane	12.536	117	3602	4.529	ug/l	90
87) 1,2-Dichlorobenzene	12.335	146	11585	5.042	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	2304	4.788	ug/l	93
89) 1,2,4-Trichlorobenzene	13.591	180	7663	4.953	ug/l	99
90) Hexachlorobutadiene	13.725	225	3479	5.561	ug/l	97
91) Naphthalene	13.774	128	24041	4.764	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	7719	5.060	ug/l	98

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

