

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051624\
 Data File : VX041554.D
 Acq On : 16 May 2024 11:20
 Operator : JC/MD
 Sample : P2403-09 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT2-2024

Quant Time: May 17 02:37:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	29845	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	164402	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	150097	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	70758	30.106	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.367%	
60) 4-Bromofluorobenzene	11.079	95	69089	29.486	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 98.300%	
63) Toluene-d8	8.647	98	196795	30.586	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.967%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	4102	2.628	ug/l	96
3) Chloromethane	1.295	50	4371	2.557	ug/l	97
4) Vinyl Chloride	1.374	62	4184	2.325	ug/l	91
5) Bromomethane	1.599	94	3096	2.705	ug/l	99
6) Chloroethane	1.666	64	2263m	2.487	ug/l	
7) Trichlorofluoromethane	1.868	101	8044	2.945	ug/l	96
8) Diethyl Ether	2.136	74	3162	3.100	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	4127	2.605	ug/l	98
10) 1,1-Dichloroethene	2.307	96	3994	2.616	ug/l	96
11) Methyl Iodide	2.447	142	4549	2.501	ug/l	96
12) Methyl Acetate	2.709	43	6318	2.747	ug/l	99
13) Acrolein	2.240	56	2579	9.212	ug/l	93
14) Acrylonitrile	3.075	53	12338	12.203	ug/l	96
15) Acetone	2.392	58	4539	16.755	ug/l	90
16) Carbon Disulfide	2.502	76	8051	2.335	ug/l	96
17) Allyl chloride	2.654	41	6580	2.428	ug/l	92
18) Methylene Chloride	2.788	84	5169	2.846	ug/l #	90
19) trans-1,2-Dichloroethene	3.087	96	4191	2.394	ug/l	98
20) Diisopropyl ether	3.764	45	14096	2.476	ug/l	87
21) 1,1-Dichloroethane	3.605	63	7973	2.495	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	5021	2.360	ug/l	99
23) tert-Butyl Alcohol	2.995	59	5137m	11.972	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	14103	2.474	ug/l	97
25) Chloroform	5.087	83	8517	2.502	ug/l	97
26) Cyclohexane	5.458	56	6559	2.462	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	5042	2.318	ug/l	96
30) 2-Butanone	4.581	43	19132	13.254	ug/l #	93
31) 2,2-Dichloropropane	4.465	77	6090	2.386	ug/l #	82
32) 1,1,1-Trichloroethane	5.385	97	6684	2.291	ug/l #	86
33) Carbon Tetrachloride	5.666	117	5649	2.263	ug/l	96
34) Benzene	6.032	78	17322	2.522	ug/l	97
35) Methacrylonitrile	4.928	41	3364m	2.310	ug/l	
36) 1,2-Dichloroethane	6.092	62	6614	2.581	ug/l #	86
37) Trichloroethene	7.129	130	4818	2.518	ug/l	94
38) Methylcyclohexane	7.373	83	6943	2.514	ug/l	99
39) 1,2-Dichloropropane	7.434	63	3965	2.442	ug/l	89
40) Dibromomethane	7.592	93	3107	2.432	ug/l	95
41) Bromodichloromethane	7.824	83	5461	2.276	ug/l	99
42) Vinyl Acetate	3.727	43	57897	11.560	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	7513m	2.697	ug/l	
44) Isopropyl Acetate	6.349	43	9934	2.360	ug/l	99
45) 1,4-Dioxane	7.684	88	2369m	49.893	ug/l	
46) Methyl methacrylate	7.702	41	4845	2.313	ug/l	98
47) n-amyl Acetate	10.848	43	8003	2.096	ug/l	97
48) t-1,3-Dichloropropene	8.982	75	4691	1.947	ug/l #	86
49) cis-1,3-Dichloropropene	8.373	75	5349	2.050	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	4628	2.604	ug/l	96
51) Ethyl methacrylate	9.122	69	5883	2.056	ug/l	97
52) 1,3-Dichloropropane	9.311	76	7619	2.594	ug/l	96
53) Dibromochloromethane	9.519	129	4310	2.131	ug/l	96
54) 1,2-Dibromoethane	9.610	107	4505	2.390	ug/l	100
55) 2-Chloroethyl vinyl ether	8.245	63	16555	11.854	ug/l	98
56) Bromoform	10.799	173	3181	1.963	ug/l	96
58) 4-Methyl-2-Pentanone	8.574	43	34362	12.529	ug/l	99
59) 2-Hexanone	9.433	43	26714	12.227	ug/l	99
61) Tetrachloroethene	9.269	164	4935	2.687	ug/l	96
62) Toluene	8.720	91	19442	2.603	ug/l	100
64) Chlorobenzene	10.080	112	12966	2.556	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	4120	2.295	ug/l	95
66) Ethyl Benzene	10.195	91	20369	2.456	ug/l	95
67) m/p-Xylenes	10.299	106	15646	4.825	ug/l	98
68) o-Xylene	10.640	106	7808	2.392	ug/l	99
69) Styrene	10.659	104	11982	2.189	ug/l	99
70) Isopropylbenzene	10.964	105	19435	2.356	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	7130	2.516	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	6375m	2.495	ug/l	
73) Bromobenzene	11.201	156	5949	2.454	ug/l	97
74) n-propylbenzene	11.305	91	20227	2.175	ug/l	98
75) 2-Chlorotoluene	11.366	91	14232	2.437	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	15805	2.245	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	1421	1.769	ug/l	97
78) 4-Chlorotoluene	11.457	91	14472	2.175	ug/l	95
79) tert-butylbenzene	11.713	119	17000	2.269	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	15622	2.214	ug/l	97
81) sec-Butylbenzene	11.890	105	19395	2.215	ug/l	100
82) p-Isopropyltoluene	12.006	119	16043	2.093	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	10110	2.326	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	10652	2.425	ug/l	95
85) n-Butylbenzene	12.335	91	11511	1.866	ug/l	97
86) Hexachloroethane	12.536	117	2509	1.944	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	10637	2.397	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1370m	2.201	ug/l	
89) 1,2,4-Trichlorobenzene	13.591	180	6053	2.030	ug/l	97
90) Hexachlorobutadiene	13.725	225	3549	2.440	ug/l	98
91) Naphthalene	13.780	128	17977	2.018	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	6649	2.183	ug/l	99

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

