

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112423\
 Data File : VX039027.D
 Acq On : 24 Nov 2023 16:18
 Operator : JC/MD
 Sample : 04699-08 5.0PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2023

Quant Time: Nov 27 03:49:06 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	9393	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	76676	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	96052	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	43619	33.944	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 113.133%#			
60) 4-Bromofluorobenzene	11.079	95	62674	29.874	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.567%			
63) Toluene-d8	8.646	98	118186	31.122	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.733%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	7825	5.566	ug/l	94
3) Chloromethane	1.294	50	8945	5.557	ug/l	97
4) Vinyl Chloride	1.373	62	9024	5.553	ug/l	99
5) Bromomethane	1.599	94	6314	6.352	ug/l	97
6) Chloroethane	1.684	64	5999	6.339	ug/l	94
7) Trichlorofluoromethane	1.885	101	12467	5.558	ug/l	92
8) Diethyl Ether	2.129	74	5092	5.914	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.324	101	7227	5.702	ug/l	97
10) 1,1-Dichloroethene	2.318	96	6951	5.440	ug/l	97
11) Methyl Iodide	2.459	142	7331	5.236	ug/l	91
12) Methyl Acetate	2.702	43	24233	6.081	ug/l	96
13) Acrolein	2.233	56	10778	30.875	ug/l	99
14) Acrylonitrile	3.062	53	27183	27.891	ug/l	99
15) Acetone	2.379	58	9836	27.764	ug/l	95
16) Carbon Disulfide	2.513	76	21718	5.613	ug/l #	94
17) Allyl chloride	2.666	41	13831	5.453	ug/l	96
18) Methylene Chloride	2.788	84	9016	5.953	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	8072	5.586	ug/l	95
20) Diisopropyl ether	3.763	45	27467	5.691	ug/l	98
21) 1,1-Dichloroethane	3.611	63	15643	5.829	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	8775	5.240	ug/l	93
23) tert-Butyl Alcohol	2.952	59	17548	32.523	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	26680	5.669	ug/l	98
25) Chloroform	5.092	83	14951	5.551	ug/l	95
26) Cyclohexane	5.476	56	14250m	5.867	ug/l	
29) 1,1-Dichloropropene	5.696	75	11212	5.216	ug/l	95
30) 2-Butanone	4.556	43	44391	27.430	ug/l	99
31) 2,2-Dichloropropane	4.476	77	11978	4.874	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	12787	5.147	ug/l #	78
33) Carbon Tetrachloride	5.671	117	10447	4.992	ug/l	95
34) Benzene	6.043	78	34554	5.519	ug/l	97
35) Methacrylonitrile	4.928	41	7670	5.351	ug/l	91
36) 1,2-Dichloroethane	6.086	62	11879	5.170	ug/l #	91
37) Trichloroethene	7.128	130	8475	5.333	ug/l	96
38) Methylcyclohexane	7.378	83	14034	5.240	ug/l	98
39) 1,2-Dichloropropane	7.427	63	8621	5.221	ug/l	97
40) Dibromomethane	7.586	93	5939	5.090	ug/l	95
41) Bromodichloromethane	7.823	83	11495	5.128	ug/l	92
42) Vinyl Acetate	3.720	43	102035	26.472	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.720	43	15530	5.578	ug/l	98
44) Isopropyl Acetate	6.342	43	23412	5.334	ug/l	98
45) 1,4-Dioxane	7.659	88	4930	110.031	ug/l	98
46) Methyl methacrylate	7.695	41	13409	5.344	ug/l	97
47) n-amyl Acetate	10.841	43	16671	4.488	ug/l	97
48) t-1,3-Dichloropropene	8.982	75	12374	4.761	ug/l	92
49) cis-1,3-Dichloropropene	8.366	75	13667	5.097	ug/l	90
50) 1,1,2-Trichloroethane	9.152	97	8695	5.486	ug/l	97
51) Ethyl methacrylate	9.116	69	10154	5.118	ug/l	96
52) 1,3-Dichloropropane	9.311	76	14617	5.378	ug/l	100
53) Dibromochloromethane	9.518	129	7837	4.604	ug/l	99
54) 1,2-Dibromoethane	9.610	107	8810	5.069	ug/l	96
55) 2-Chloroethyl vinyl ether	8.244	63	31446	25.006	ug/l	98
56) Bromoform	10.799	173	5110	4.160	ug/l	98
58) 4-Methyl-2-Pentanone	8.573	43	79266	27.213	ug/l	99
59) 2-Hexanone	9.427	43	63627	26.612	ug/l	98
61) Tetrachloroethene	9.274	164	6370	5.101	ug/l #	77
62) Toluene	8.720	91	36799	5.396	ug/l	97
64) Chlorobenzene	10.079	112	21445	5.170	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.164	131	7176	4.804	ug/l	93
66) Ethyl Benzene	10.195	91	40698	5.241	ug/l	97
67) m/p-Xylenes	10.305	106	29627	10.325	ug/l	97
68) o-Xylene	10.640	106	14616	5.259	ug/l	99
69) Styrene	10.658	104	20281	4.930	ug/l	99
70) Isopropylbenzene	10.963	105	38936	5.236	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	14409	5.190	ug/l	99
72) 1,2,3-Trichloropropane	11.237	75	12188m	5.188	ug/l	
73) Bromobenzene	11.201	156	8855	5.230	ug/l	97
74) n-propylbenzene	11.305	91	46953	5.153	ug/l	98
75) 2-Chlorotoluene	11.365	91	28212	5.278	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	32567	5.083	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	3861	4.148	ug/l	89
78) 4-Chlorotoluene	11.457	91	33048	5.258	ug/l	97
79) tert-butylbenzene	11.713	119	30226	4.962	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	32463	5.063	ug/l	98
81) sec-Butylbenzene	11.890	105	37921	4.924	ug/l	98
82) p-Isopropyltoluene	12.006	119	31808	4.873	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	16003	4.939	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	17193	5.171	ug/l	99
85) n-Butylbenzene	12.335	91	30929	4.798	ug/l	97
86) Hexachloroethane	12.536	117	5520	4.463	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	16130	5.177	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.944	75	3645	5.134	ug/l	93
89) 1,2,4-Trichlorobenzene	13.591	180	10067	4.873	ug/l	99
90) Hexachlorobutadiene	13.725	225	3395	4.603	ug/l	97
91) Naphthalene	13.774	128	37487	4.921	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	10007	5.001	ug/l	96

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

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