

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
 Data File : VN084060.D
 Acq On : 20 Sep 2024 10:44
 Operator : JC\MD
 Sample : VN0920WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0920WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/23/2024
 Supervised By : Mahesh Dadoda 09/23/2024

Quant Time: Sep 20 23:22:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	24030	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	132693	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	122141	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	66180	30.129	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.433%			
60) 4-Bromofluorobenzene	12.853	95	62605	29.740	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.133%			
63) Toluene-d8	10.565	98	170846	30.208	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	29906	18.584	ug/l	99
3) Chloromethane	2.359	50	31122	18.613	ug/l	93
4) Vinyl Chloride	2.518	62	31505	18.329	ug/l	93
5) Bromomethane	2.959	94	20277	21.114	ug/l	97
6) Chloroethane	3.124	64	19778	17.183	ug/l	100
7) Trichlorofluoromethane	3.495	101	51748	17.957	ug/l	95
8) Diethyl Ether	3.959	74	18667	19.064	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.371	101	28387	18.339	ug/l	95
10) 1,1-Dichloroethene	4.347	96	27654	18.516	ug/l	94
11) Methyl Iodide	4.589	142	36559	18.021	ug/l	90
12) Methyl Acetate	5.024	43	39071	21.692	ug/l #	80
13) Acrolein	4.183	56	32401	123.261	ug/l	96
14) Acrylonitrile	5.724	53	78699	107.969	ug/l	97
15) Acetone	4.424	58	23901	98.849	ug/l #	63
16) Carbon Disulfide	4.712	76	76358	18.091	ug/l #	95
17) Allyl chloride	5.018	41	45826	17.497	ug/l	88
18) Methylene Chloride	5.277	84	32144	19.672	ug/l	90
19) trans-1,2-Dichloroethene	5.783	96	27647	17.861	ug/l	92
20) Diisopropyl ether	6.671	45	104377	19.734	ug/l	94
21) 1,1-Dichloroethane	6.571	63	58046	19.222	ug/l	95
22) cis-1,2-Dichloroethene	7.488	96	33862	17.974	ug/l	89
23) tert-Butyl Alcohol	5.512	59	31203	116.656	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	100633	18.961	ug/l #	87
25) Chloroform	7.971	83	60556	18.922	ug/l	95
26) Cyclohexane	8.253	56	44667	16.794	ug/l #	89
29) 1,1-Dichloropropene	8.371	75	41112	19.534	ug/l	95
30) 2-Butanone	7.483	43	116509	117.434	ug/l	93
31) 2,2-Dichloropropane	7.488	77	52187	19.449	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	54292	19.316	ug/l	97
33) Carbon Tetrachloride	8.365	117	46061	18.923	ug/l	95
34) Benzene	8.606	78	128055	20.278	ug/l	99
35) Methacrylonitrile	7.777	41	24715	22.160	ug/l	88
36) 1,2-Dichloroethane	8.671	62	49460	20.834	ug/l	96
37) Trichloroethene	9.353	130	29416	19.836	ug/l	100
38) Methylcyclohexane	9.600	83	43135	17.118	ug/l	94
39) 1,2-Dichloropropane	9.624	63	31822	20.937	ug/l	95
40) Dibromomethane	9.712	93	22847	20.559	ug/l	93
41) Bromodichloromethane	9.888	83	47951	20.291	ug/l	97
42) Vinyl Acetate	6.606	43	391629	96.008	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	47368	23.720	ug/l #	87
44) Isopropyl Acetate	8.688	43	79497	23.017	ug/l #	87
45) 1,4-Dioxane	9.694	88	13111	486.689	ug/l #	93
46) Methyl methacrylate	9.682	41	35505	21.238	ug/l	83
47) n-amyl Acetate	12.494	43	65702	21.475	ug/l	93
48) t-1,3-Dichloropropene	10.835	75	47488	19.104	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	51371	19.872	ug/l #	83
50) 1,1,2-Trichloroethane	11.018	97	30726	21.728	ug/l	95
51) Ethyl methacrylate	10.876	69	46912	19.418	ug/l	76
52) 1,3-Dichloropropane	11.165	76	53489	20.946	ug/l	99
53) Dibromochloromethane	11.359	129	34742	20.483	ug/l	98
54) 1,2-Dibromoethane	11.470	107	30780	21.040	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	119932	124.565	ug/l	97
56) Bromoform	12.576	173	21964	20.383	ug/l #	99
58) 4-Methyl-2-Pentanone	10.447	43	230724	119.133	ug/l #	86
59) 2-Hexanone	11.194	43	172356	117.779	ug/l #	86
61) Tetrachloroethene	11.100	164	24470	18.930	ug/l	89
62) Toluene	10.629	91	134342	19.136	ug/l	100
64) Chlorobenzene	11.894	112	82832	19.057	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	29399	19.416	ug/l	97
66) Ethyl Benzene	11.965	91	146031	18.291	ug/l	100
67) m/p-Xylenes	12.070	106	107678	36.659	ug/l	93
68) o-Xylene	12.400	106	52922	18.616	ug/l	96
69) Styrene	12.412	104	88602	18.446	ug/l	98
70) Isopropylbenzene	12.694	105	134235	17.893	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	42902	20.938	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	39242m	21.844	ug/l	
73) Bromobenzene	12.982	156	33179	19.255	ug/l	94
74) n-propylbenzene	13.035	91	164113	18.688	ug/l	98
75) 2-Chlorotoluene	13.123	91	102525	18.705	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	114269	18.235	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	14770	19.451	ug/l	83
78) 4-Chlorotoluene	13.223	91	101480	18.257	ug/l	98
79) tert-butylbenzene	13.441	119	97092	17.718	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	116181	18.346	ug/l	99
81) sec-Butylbenzene	13.617	105	134829	18.011	ug/l	100
82) p-Isopropyltoluene	13.729	119	113104	17.958	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	60244	18.165	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	58562	17.663	ug/l	99
85) n-Butylbenzene	14.059	91	96157	17.301	ug/l	97
86) Hexachloroethane	14.335	117	22487	18.840	ug/l	83
87) 1,2-Dichlorobenzene	14.106	146	59675	18.541	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	9252	20.547	ug/l	91
89) 1,2,4-Trichlorobenzene	15.841	180	28965	16.427	ug/l	98
90) Hexachlorobutadiene	15.500	225	13403	18.364	ug/l	98
91) Naphthalene	15.641	128	93586	16.234	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	28965	16.427	ug/l	98

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

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