

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050624\
 Data File : VN082002.D
 Acq On : 06 May 2024 11:49
 Operator : JC\MD
 Sample : VN0506WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0506WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/07/2024
 Supervised By : Semsettin Yesilyurt 05/07/2024

Quant Time: May 07 00:25:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 27 04:37:27 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	39392	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	233901	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	201300	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	101002	30.624	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.067%			
60) 4-Bromofluorobenzene	12.847	95	99969	29.841	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.467%			
63) Toluene-d8	10.565	98	296216	30.986	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.300%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	42081	18.819	ug/l	93
3) Chloromethane	2.359	50	46760	18.032	ug/l	96
4) Vinyl Chloride	2.518	62	47627	19.442	ug/l	95
5) Bromomethane	2.965	94	23750	18.579	ug/l	99
6) Chloroethane	3.118	64	28062	20.229	ug/l #	83
7) Trichlorofluoromethane	3.501	101	65700	18.328	ug/l	96
8) Diethyl Ether	3.959	74	32332	18.632	ug/l	81
9) 1,1,2-Trichlorotrifluo...	4.377	101	45733m	18.610	ug/l	
10) 1,1-Dichloroethene	4.336	96	43823	18.228	ug/l	83
11) Methyl Iodide	4.589	142	40053m	18.229	ug/l	
12) Methyl Acetate	5.030	43	66844	22.204	ug/l #	76
13) Acrolein	4.177	56	52781	82.496	ug/l	99
14) Acrylonitrile	5.718	53	147060	107.036	ug/l	94
15) Acetone	4.430	58	34974	113.598	ug/l	91
16) Carbon Disulfide	4.712	76	118914	17.853	ug/l	97
17) Allyl chloride	5.024	41	78257	18.540	ug/l	80
18) Methylene Chloride	5.283	84	51822	18.944	ug/l #	85
19) trans-1,2-Dichloroethene	5.783	96	47557	19.004	ug/l	96
20) Diisopropyl ether	6.671	45	181284	19.411	ug/l	96
21) 1,1-Dichloroethane	6.565	63	98864	19.993	ug/l	96
22) cis-1,2-Dichloroethene	7.489	96	58672	19.240	ug/l	91
23) tert-Butyl Alcohol	5.518	59	57698	101.952	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	163827	18.901	ug/l #	86
25) Chloroform	7.965	83	92040	19.347	ug/l	97
26) Cyclohexane	8.259	56	82227	19.229	ug/l #	91
29) 1,1-Dichloropropene	8.377	75	68025	19.535	ug/l	96
30) 2-Butanone	7.489	43	187961	104.715	ug/l	95
31) 2,2-Dichloropropane	7.489	77	83226	23.322	ug/l #	53
32) 1,1,1-Trichloroethane	8.165	97	78240	19.536	ug/l	93
33) Carbon Tetrachloride	8.365	117	60073	18.483	ug/l #	92
34) Benzene	8.612	78	221903	19.975	ug/l	98
35) Methacrylonitrile	7.777	41	43005	18.937	ug/l	94
36) 1,2-Dichloroethane	8.671	62	68348	18.328	ug/l	98
37) Trichloroethene	9.359	130	47273	17.374	ug/l	92
38) Methylcyclohexane	9.606	83	79323	18.857	ug/l	94
39) 1,2-Dichloropropane	9.624	63	55894	19.609	ug/l	96
40) Dibromomethane	9.712	93	37037	20.225	ug/l	87
41) Bromodichloromethane	9.888	83	74641	19.070	ug/l #	90
42) Vinyl Acetate	6.606	43	747430m	97.830	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	77695	19.852	ug/l	97
44) Isopropyl Acetate	8.688	43	137084m	19.730	ug/l	
45) 1,4-Dioxane	9.694	88	22233	399.007	ug/l #	84
46) Methyl methacrylate	9.683	41	61769	19.459	ug/l	85
47) n-amyl Acetate	12.494	43	119281m	19.034	ug/l	
48) t-1,3-Dichloropropene	10.835	75	82266	19.382	ug/l	90
49) cis-1,3-Dichloropropene	10.318	75	89406	19.923	ug/l #	85
50) 1,1,2-Trichloroethane	11.018	97	49917	20.092	ug/l	90
51) Ethyl methacrylate	10.877	69	90313	19.261	ug/l	82
52) 1,3-Dichloropropane	11.165	76	91374	20.019	ug/l	99
53) Dibromochloromethane	11.359	129	51372	19.005	ug/l	94
54) 1,2-Dibromoethane	11.471	107	46760	18.872	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	179828	76.696	ug/l	97
56) Bromoform	12.576	173	28943	17.593	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	410983	105.147	ug/l #	87
59) 2-Hexanone	11.194	43	313074	108.030	ug/l #	87
61) Tetrachloroethene	11.106	164	39578	17.719	ug/l	97
62) Toluene	10.630	91	224182	19.793	ug/l	98
64) Chlorobenzene	11.894	112	135855	19.611	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	42550	18.766	ug/l	92
66) Ethyl Benzene	11.965	91	248033	19.978	ug/l	100
67) m/p-Xylenes	12.071	106	189980	41.272	ug/l	96
68) o-Xylene	12.400	106	89457	19.643	ug/l	97
69) Styrene	12.412	104	150160	19.642	ug/l	97
70) Isopropylbenzene	12.694	105	231594	20.023	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	74409	22.355	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	66270m	21.296	ug/l	
73) Bromobenzene	12.982	156	46783	18.895	ug/l	80
74) n-propylbenzene	13.035	91	274941	20.148	ug/l	99
75) 2-Chlorotoluene	13.123	91	165197	19.569	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	187494	20.027	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	30289	21.869	ug/l	87
78) 4-Chlorotoluene	13.223	91	165251	19.981	ug/l	99
79) tert-butylbenzene	13.441	119	157030	19.481	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	184492	19.619	ug/l	99
81) sec-Butylbenzene	13.618	105	225634	19.969	ug/l	100
82) p-Isopropyltoluene	13.729	119	181384	20.301	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	89318	20.034	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	88134	19.668	ug/l	97
85) n-Butylbenzene	14.059	91	172750	21.166	ug/l	97
86) Hexachloroethane	14.335	117	36003	20.209	ug/l	74
87) 1,2-Dichlorobenzene	14.106	146	87743	19.761	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	15536	20.800	ug/l #	83
89) 1,2,4-Trichlorobenzene	15.841	180	45891	18.770	ug/l	97
90) Hexachlorobutadiene	15.500	225	17165	18.956	ug/l	78
91) Naphthalene	15.641	128	181557	19.534	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	45891	18.770	ug/l	97

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

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