

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092723\
 Data File : VN079359.D
 Acq On : 27 Sep 2023 11:24
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/28/2023
 Supervised By : Semsettin Yesilyurt 09/28/2023

Quant Time: Sep 27 23:36:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 27 23:34:19 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	40409	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	214133	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	195499	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	98498	29.713	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.033%		
60) 4-Bromofluorobenzene	12.853	95	86327	30.980	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	103.267%		
63) Toluene-d8	10.571	98	287145	29.896	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.667%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	49410	19.814	ug/l	100
3) Chloromethane	2.365	50	61801	19.326	ug/l	100
4) Vinyl Chloride	2.518	62	67357	19.222	ug/l	100
5) Bromomethane	2.959	94	40020	20.310	ug/l	100
6) Chloroethane	3.118	64	46703	18.708	ug/l	100
7) Trichlorofluoromethane	3.501	101	81222	19.559	ug/l	100
8) Diethyl Ether	3.959	74	29705	20.043	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	45177	19.394	ug/l	100
10) 1,1-Dichloroethene	4.348	96	42993	19.971	ug/l	100
11) Methyl Iodide	4.589	142	48703	20.486	ug/l	100
12) Methyl Acetate	5.030	43	96988	22.406	ug/l	100
13) Acrolein	4.183	56	49205	100.124	ug/l	100
14) Acrylonitrile	5.724	53	126369	99.164	ug/l	100
15) Acetone	4.442	58	40667	97.534	ug/l	100
16) Carbon Disulfide	4.712	76	124857	19.145	ug/l	100
17) Allyl chloride	5.030	41	70785	20.482	ug/l	100
18) Methylene Chloride	5.277	84	53859	19.241	ug/l	100
19) trans-1,2-Dichloroethene	5.800	96	49168m	21.608	ug/l	
20) Diisopropyl ether	6.683	45	164681	20.144	ug/l	100
21) 1,1-Dichloroethane	6.571	63	96042	19.498	ug/l	100
22) cis-1,2-Dichloroethene	7.494	96	55637	19.419	ug/l	100
23) tert-Butyl Alcohol	5.530	59	39939	106.662	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	146988	22.540	ug/l	100
25) Chloroform	7.971	83	99117	19.710	ug/l	100
26) Cyclohexane	8.265	56	75987	22.605	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	72505	20.098	ug/l	100
30) 2-Butanone	7.489	43	180168	100.952	ug/l	100
31) 2,2-Dichloropropane	7.494	77	79567	19.976	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	84396	20.178	ug/l	100
33) Carbon Tetrachloride	8.365	117	72149	19.917	ug/l	100
34) Benzene	8.606	78	217711	19.919	ug/l	100
35) Methacrylonitrile	7.783	41	37547	20.320	ug/l	100
36) 1,2-Dichloroethane	8.677	62	78010	19.705	ug/l	100
37) Trichloroethene	9.353	130	50916	19.822	ug/l	100
38) Methylcyclohexane	9.600	83	70697	19.984	ug/l	100
39) 1,2-Dichloropropane	9.624	63	58002	19.992	ug/l	100
40) Dibromomethane	9.712	93	37907	19.738	ug/l	100
41) Bromodichloromethane	9.894	83	78962	20.191	ug/l	100
42) Vinyl Acetate	6.612	43	482135	99.977	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	63945	17.988	ug/l	100
44) Isopropyl Acetate	8.694	43	116852	20.444	ug/l	100
45) 1,4-Dioxane	9.694	88	18661	395.793	ug/l	100
46) Methyl methacrylate	9.683	41	53434	20.570	ug/l	100
47) n-amyl Acetate	12.500	43	84212	20.704	ug/l	100
48) t-1,3-Dichloropropene	10.841	75	77794	19.585	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	85803	20.131	ug/l	100
50) 1,1,2-Trichloroethane	11.018	97	52673	20.105	ug/l	100
51) Ethyl methacrylate	10.877	69	72707	20.416	ug/l	100
52) 1,3-Dichloropropane	11.165	76	91784	19.640	ug/l	100
53) Dibromochloromethane	11.365	129	53563	20.199	ug/l	100
54) 1,2-Dibromoethane	11.471	107	52082	20.384	ug/l	100
55) 2-Chloroethyl vinyl ether	10.165	63	139420	100.703	ug/l	100
56) Bromoform	12.582	173	34370	20.345	ug/l	100
58) 4-Methyl-2-Pentanone	10.447	43	355498	101.611	ug/l	100
59) 2-Hexanone	11.200	43	253428	101.248	ug/l	100
61) Tetrachloroethene	11.112	164	42243	19.378	ug/l	100
62) Toluene	10.635	91	232350	19.840	ug/l	100
64) Chlorobenzene	11.894	112	131401	19.550	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.965	131	49375	19.638	ug/l	100
66) Ethyl Benzene	11.965	91	240083	20.268	ug/l	100
67) m/p-Xylenes	12.076	106	181726	41.494	ug/l	100
68) o-Xylene	12.400	106	86639	20.557	ug/l	100
69) Styrene	12.412	104	138785	20.904	ug/l	100
70) Isopropylbenzene	12.700	105	219321	20.455	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	75146	19.561	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	67230m	17.197	ug/l	
73) Bromobenzene	12.982	156	50330	20.048	ug/l	100
74) n-propylbenzene	13.041	91	260917	20.556	ug/l	100
75) 2-Chlorotoluene	13.129	91	156252	20.160	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	184410	20.695	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	21151	20.775	ug/l	100
78) 4-Chlorotoluene	13.223	91	146447	20.335	ug/l	100
79) tert-butylbenzene	13.441	119	146911	19.899	ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	177186	20.326	ug/l	100
81) sec-Butylbenzene	13.618	105	210257	19.851	ug/l	100
82) p-Isopropyltoluene	13.735	119	165378	19.695	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	85154	20.058	ug/l	100
84) 1,4-Dichlorobenzene	13.818	146	80214	20.159	ug/l	100
85) n-Butylbenzene	14.059	91	129204	20.069	ug/l	100
86) Hexachloroethane	14.335	117	34131	19.619	ug/l	100
87) 1,2-Dichlorobenzene	14.106	146	84159	20.070	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.723	75	11966	20.190	ug/l	100
89) 1,2,4-Trichlorobenzene	15.841	180	34302	23.428	ug/l	100
90) Hexachlorobutadiene	15.506	225	23729	21.261	ug/l	100
91) Naphthalene	15.641	128	71940	20.489	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	34302	22.155	ug/l	100

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

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