

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092723\
 Data File : VN079360.D
 Acq On : 27 Sep 2023 11:53
 Operator : JC\MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

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

Quant Time: Sep 27 23:37:01 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	7.812	128	41177	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	215147	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	191486	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	101295	29.987	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.967%		
60) 4-Bromofluorobenzene	12.853	95	74991	27.476	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	91.600%		
63) Toluene-d8	10.571	98	285287	30.325	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.067%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	13181	5.187	ug/l	90
3) Chloromethane	2.371	50	16688	5.121	ug/l	94
4) Vinyl Chloride	2.518	62	18080	5.063	ug/l	92
5) Bromomethane	2.959	94	12341m	6.146	ug/l	
6) Chloroethane	3.124	64	14061	5.527	ug/l	99
7) Trichlorofluoromethane	3.506	101	21231	5.017	ug/l	95
8) Diethyl Ether	3.959	74	7434	4.922	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	12406	5.226	ug/l	95
10) 1,1-Dichloroethene	4.348	96	10345	4.716	ug/l #	89
11) Methyl Iodide	4.589	142	11291m	4.661	ug/l	
12) Methyl Acetate	5.042	43	24672m	5.593	ug/l	
13) Acrolein	4.183	56	12183	24.328	ug/l	100
14) Acrylonitrile	5.730	53	30937	23.824	ug/l	99
15) Acetone	4.430	58	10893	25.638	ug/l	90
16) Carbon Disulfide	4.718	76	33060	4.975	ug/l	97
17) Allyl chloride	5.030	41	16337	4.639	ug/l	90
18) Methylene Chloride	5.277	84	14680	5.147	ug/l	96
19) trans-1,2-Dichloroethene	5.789	96	12887	5.558	ug/l	91
20) Diisopropyl ether	6.677	45	39560	4.749	ug/l	97
21) 1,1-Dichloroethane	6.577	63	25015	4.984	ug/l	97
22) cis-1,2-Dichloroethene	7.488	96	14675	5.026	ug/l	86
23) tert-Butyl Alcohol	5.512	59	10374m	27.188	ug/l	
24) Methyl tert-Butyl Ether	5.806	73	35810m	5.389	ug/l	
25) Chloroform	7.971	83	25487	4.974	ug/l	100
26) Cyclohexane	8.253	56	18123m	5.291	ug/l	
29) 1,1-Dichloropropene	8.377	75	17582	4.851	ug/l	82
30) 2-Butanone	7.488	43	45751	25.514	ug/l	99
31) 2,2-Dichloropropane	7.500	77	20349	5.085	ug/l #	73
32) 1,1,1-Trichloroethane	8.177	97	20652	4.914	ug/l	94
33) Carbon Tetrachloride	8.365	117	17977	4.939	ug/l	99
34) Benzene	8.606	78	54476	4.961	ug/l #	85
35) Methacrylonitrile	7.783	41	9893	5.329	ug/l	88
36) 1,2-Dichloroethane	8.671	62	20344	5.115	ug/l	100
37) Trichloroethene	9.353	130	13336	5.167	ug/l	100
38) Methylcyclohexane	9.606	83	16908	4.757	ug/l	98
39) 1,2-Dichloropropane	9.630	63	14739	5.056	ug/l #	89
40) Dibromomethane	9.718	93	9688	5.021	ug/l	97
41) Bromodichloromethane	9.894	83	19366	4.929	ug/l	99
42) Vinyl Acetate	6.612	43	112871	23.295	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	18285	5.119	ug/l	93
44) Isopropyl Acetate	8.688	43	27287	4.752	ug/l	100
45) 1,4-Dioxane	9.694	88	4613	97.379	ug/l #	79
46) Methyl methacrylate	9.688	41	12492	4.786	ug/l	92
47) n-amyl Acetate	12.494	43	16921	4.141	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	19783	4.957	ug/l	92
49) cis-1,3-Dichloropropene	10.318	75	19878	4.642	ug/l	97
50) 1,1,2-Trichloroethane	11.024	97	13044	4.955	ug/l #	87
51) Ethyl methacrylate	10.876	69	16134	4.509	ug/l	93
52) 1,3-Dichloropropane	11.165	76	23728	5.053	ug/l	98
53) Dibromochloromethane	11.365	129	12331	4.628	ug/l	97
54) 1,2-Dibromoethane	11.471	107	12106	4.716	ug/l	92
55) 2-Chloroethyl vinyl ether	10.165	63	30436	21.880	ug/l	99
56) Bromoform	12.582	173	7537	4.440	ug/l	95
58) 4-Methyl-2-Pentanone	10.447	43	80629	23.529	ug/l	99
59) 2-Hexanone	11.200	43	58599	23.902	ug/l	97
61) Tetrachloroethene	11.106	164	10853	5.083	ug/l #	85
62) Toluene	10.635	91	58198	5.074	ug/l	99
64) Chlorobenzene	11.894	112	32827	4.986	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	12301	4.995	ug/l	95
66) Ethyl Benzene	11.971	91	54604	4.706	ug/l	96
67) m/p-Xylenes	12.076	106	38988	9.089	ug/l	98
68) o-Xylene	12.400	106	18729	4.537	ug/l	97
69) Styrene	12.412	104	27793	4.274	ug/l	98
70) Isopropylbenzene	12.700	105	47113	4.486	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	19207	5.105	ug/l	96
72) 1,2,3-Trichloropropane	12.994	75	17991m	4.698	ug/l	
73) Bromobenzene	12.982	156	11978	4.871	ug/l	96
74) n-propylbenzene	13.041	91	55243	4.443	ug/l	98
75) 2-Chlorotoluene	13.129	91	35457	4.671	ug/l	97
76) 1,3,5-Trimethylbenzene	13.176	105	38525	4.414	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	4369	4.381	ug/l	97
78) 4-Chlorotoluene	13.223	91	30994	4.394	ug/l	99
79) tert-butylbenzene	13.441	119	31066	4.296	ug/l	100
80) 1,2,4-Trimethylbenzene	13.488	105	35270	4.131	ug/l	99
81) sec-Butylbenzene	13.617	105	45445	4.380	ug/l	100
82) p-Isopropyltoluene	13.735	119	35753	4.347	ug/l	96
83) 1,3-Dichlorobenzene	13.735	146	18075	4.347	ug/l	97
84) 1,4-Dichlorobenzene	13.817	146	15788	4.051	ug/l	98
85) n-Butylbenzene	14.059	91	25080	3.977	ug/l	100
86) Hexachloroethane	14.335	117	7997	4.693	ug/l	97
87) 1,2-Dichlorobenzene	14.112	146	17223	4.193	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	2672	4.603	ug/l	97
89) 1,2,4-Trichlorobenzene	15.847	180	5489	3.827	ug/l	92
90) Hexachlorobutadiene	15.500	225	5434	4.971	ug/l	95
91) Naphthalene	15.647	128	11746	3.416	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	5489	3.620	ug/l	92

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

