

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030923\
 Data File : VN076903.D
 Acq On : 09 Mar 2023 15:18
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/10/2023
 Supervised By : Mahesh Dadoda 03/10/2023

Quant Time: Mar 10 01:33:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 04:16:54 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	41594	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	275196	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	307317	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	114666	29.993	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.967%		
60) 4-Bromofluorobenzene	12.854	95	177403	30.501	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.667%		
63) Toluene-d8	10.572	98	318933	29.506	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.367%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.143	85	118488	22.261	ug/l	97
3) Chloromethane	2.378	50	82982	17.057	ug/l	98
4) Vinyl Chloride	2.525	62	75039	16.915	ug/l	91
5) Bromomethane	2.972	94	48748	17.183	ug/l	93
6) Chloroethane	3.137	64	44683	17.141	ug/l	94
7) Trichlorofluoromethane	3.513	101	183901	22.190	ug/l	98
8) Diethyl Ether	3.984	74	65787	21.167	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.390	101	101495	21.617	ug/l	96
10) 1,1-Dichloroethene	4.360	96	93596	20.538	ug/l	95
11) Methyl Iodide	4.607	142	68252	12.430	ug/l	95
12) Methyl Acetate	5.043	43	149727	19.976	ug/l	98
13) Acrolein	4.190	56	118463m	106.909	ug/l	
14) Acrylonitrile	5.737	53	249070	100.875	ug/l	98
15) Acetone	4.448	58	67926	101.085	ug/l	88
16) Carbon Disulfide	4.725	76	260682	20.630	ug/l	97
17) Allyl chloride	5.043	41	134234	19.639	ug/l	94
18) Methylene Chloride	5.295	84	112259	21.060	ug/l #	77
19) trans-1,2-Dichloroethene	5.801	96	99603	20.743	ug/l	94
20) Diisopropyl ether	6.684	45	321416	20.845	ug/l	94
21) 1,1-Dichloroethane	6.584	63	193230	21.058	ug/l	98
22) cis-1,2-Dichloroethene	7.501	96	116063	21.091	ug/l	96
23) tert-Butyl Alcohol	5.525	59	70977	98.979	ug/l #	100
24) Methyl tert-Butyl Ether	5.813	73	327647	22.052	ug/l	93
25) Chloroform	7.972	83	199361	21.149	ug/l	99
26) Cyclohexane	8.266	56	166514	19.875	ug/l #	91
29) 1,1-Dichloropropene	8.378	75	149167	23.013	ug/l	99
30) 2-Butanone	7.495	43	306804	103.745	ug/l	93
31) 2,2-Dichloropropane	7.501	77	152108	23.685	ug/l #	63
32) 1,1,1-Trichloroethane	8.178	97	177412	23.465	ug/l	97
33) Carbon Tetrachloride	8.372	117	160372	23.989	ug/l	95
34) Benzene	8.613	78	445215	22.404	ug/l	97
35) Methacrylonitrile	7.789	41	75521	22.695	ug/l	92
36) 1,2-Dichloroethane	8.678	62	156282	23.463	ug/l	98
37) Trichloroethene	9.360	130	104111	21.257	ug/l	90
38) Methylcyclohexane	9.607	83	179560	22.255	ug/l	100
39) 1,2-Dichloropropane	9.625	63	110540	21.650	ug/l	99
40) Dibromomethane	9.713	93	74355	22.859	ug/l	94
41) Bromodichloromethane	9.889	83	156490	23.475	ug/l	98
42) Vinyl Acetate	6.613	43	1008173	109.365	ug/l	95

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 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
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Reviewed By : John Carlone 03/10/2023
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	131651	22.062	ug/l	95
44) Isopropyl Acetate	8.695	43	210306	21.741	ug/l #	89
45) 1,4-Dioxane	9.695	88	34720	426.660	ug/l	94
46) Methyl methacrylate	9.683	41	103014	21.868	ug/l	89
47) n-amyl Acetate	12.495	43	176245	22.389	ug/l	91
48) t-1,3-Dichloropropene	10.842	75	153354	22.968	ug/l	96
49) cis-1,3-Dichloropropene	10.313	75	170870	22.531	ug/l	92
50) 1,1,2-Trichloroethane	11.019	97	107046	22.463	ug/l	96
51) Ethyl methacrylate	10.877	69	157188	22.375	ug/l	88
52) 1,3-Dichloropropane	11.166	76	183814	22.332	ug/l	99
53) Dibromochloromethane	11.366	129	114558	23.565	ug/l	96
54) 1,2-Dibromoethane	11.471	107	102733	22.340	ug/l	98
55) 2-Chloroethyl vinyl ether	10.160	63	310350	125.999	ug/l	97
56) Bromoform	12.577	173	78295	24.073	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	658720	106.105	ug/l #	89
59) 2-Hexanone	11.201	43	465125	105.467	ug/l #	88
61) Tetrachloroethene	11.107	164	95088	19.600	ug/l	92
62) Toluene	10.636	91	475287	22.445	ug/l	100
64) Chlorobenzene	11.895	112	278529	22.345	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.966	131	107658	22.995	ug/l	98
66) Ethyl Benzene	11.966	91	525724	22.867	ug/l	97
67) m/p-Xylenes	12.071	106	395960	45.467	ug/l	88
68) o-Xylene	12.401	106	195865	23.036	ug/l	93
69) Styrene	12.413	104	318341	23.085	ug/l	96
70) Isopropylbenzene	12.701	105	517975	23.414	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.942	83	157684	23.640	ug/l	98
72) 1,2,3-Trichloropropane	12.995	75	137064m	22.400	ug/l	
73) Bromobenzene	12.983	156	113283	22.692	ug/l	94
74) n-propylbenzene	13.042	91	592277	22.682	ug/l	100
75) 2-Chlorotoluene	13.130	91	377925	23.403	ug/l	96
76) 1,3,5-Trimethylbenzene	13.177	105	451607	23.585	ug/l	94
77) t-1,4-Dichloro-2-butene	12.742	75	40352	21.603	ug/l	99
78) 4-Chlorotoluene	13.224	91	362424	23.282	ug/l	92
79) tert-butylbenzene	13.442	119	379795	23.719	ug/l	95
80) 1,2,4-Trimethylbenzene	13.483	105	445896	23.696	ug/l	93
81) sec-Butylbenzene	13.618	105	538594	23.509	ug/l	99
82) p-Isopropyltoluene	13.730	119	436440	23.570	ug/l	97
83) 1,3-Dichlorobenzene	13.736	146	207241	22.436	ug/l	97
84) 1,4-Dichlorobenzene	13.813	146	202182	22.534	ug/l	95
85) n-Butylbenzene	14.060	91	359716	22.919	ug/l	98
86) Hexachloroethane	14.336	117	73474	22.224	ug/l	91
87) 1,2-Dichlorobenzene	14.107	146	213770	23.207	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.724	75	29688	22.852	ug/l	96
89) 1,2,4-Trichlorobenzene	15.395	180	111310	22.653	ug/l	98
90) Hexachlorobutadiene	15.507	225	62020	23.942	ug/l	93
91) Naphthalene	15.642	128	359978	23.098	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	117061	23.764	ug/l	96

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

