

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111023\
 Data File : VN080053.D
 Acq On : 10 Nov 2023 16:31
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/13/2023
 Supervised By : Mahesh Dadoda 11/13/2023

Quant Time: Nov 10 23:58:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 09 04:02:05 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	86474	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	489923	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	499702	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	223277	30.759	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	102.533%		
60) 4-Bromofluorobenzene	12.853	95	201588	25.227	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	84.100%		
63) Toluene-d8	10.571	98	653536	27.602	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	92.000%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	138979	24.649	ug/l	98
3) Chloromethane	2.360	50	151304	21.302	ug/l	97
4) Vinyl Chloride	2.512	62	144992	24.427	ug/l	97
5) Bromomethane	2.959	94	71638	22.043	ug/l	96
6) Chloroethane	3.118	64	84681	24.563	ug/l	91
7) Trichlorofluoromethane	3.501	101	204598	22.968	ug/l	97
8) Diethyl Ether	3.959	74	74850	23.406	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	115860	23.021	ug/l	95
10) 1,1-Dichloroethene	4.342	96	111761	25.102	ug/l	89
11) Methyl Iodide	4.589	142	126238	21.437	ug/l	92
12) Methyl Acetate	5.024	43	240193	20.809	ug/l	97
13) Acrolein	4.183	56	94911	97.321	ug/l	99
14) Acrylonitrile	5.718	53	305817	111.546	ug/l	97
15) Acetone	4.424	58	76508	82.645	ug/l	94
16) Carbon Disulfide	4.712	76	325315	21.398	ug/l	99
17) Allyl chloride	5.024	41	166555	21.409	ug/l	85
18) Methylene Chloride	5.277	84	136546	22.870	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	126546	22.931	ug/l	98
20) Diisopropyl ether	6.671	45	379046	20.849	ug/l	98
21) 1,1-Dichloroethane	6.571	63	229318	21.132	ug/l	98
22) cis-1,2-Dichloroethene	7.489	96	132448	20.682	ug/l	97
23) tert-Butyl Alcohol	5.518	59	72390	97.822	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	378661	23.099	ug/l	93
25) Chloroform	7.965	83	240364	21.457	ug/l	92
26) Cyclohexane	8.259	56	168453	19.732	ug/l #	95
29) 1,1-Dichloropropene	8.371	75	172270	20.488	ug/l	99
30) 2-Butanone	7.483	43	351549	87.545	ug/l	99
31) 2,2-Dichloropropane	7.489	77	188743	20.769	ug/l	97
32) 1,1,1-Trichloroethane	8.171	97	203536	21.204	ug/l	99
33) Carbon Tetrachloride	8.359	117	178582	21.166	ug/l	98
34) Benzene	8.606	78	511533	20.479	ug/l	99
35) Methacrylonitrile	7.783	41	82344	19.559	ug/l	93
36) 1,2-Dichloroethane	8.671	62	188928	20.900	ug/l	100
37) Trichloroethene	9.353	130	125052	20.818	ug/l	98
38) Methylcyclohexane	9.600	83	157637	19.966	ug/l	98
39) 1,2-Dichloropropane	9.624	63	135898	20.556	ug/l	97
40) Dibromomethane	9.706	93	89528	20.950	ug/l	98
41) Bromodichloromethane	9.888	83	199489	22.539	ug/l	98
42) Vinyl Acetate	6.606	43	985096	98.763	ug/l	99

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 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
 VSTDCCC020EC

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	145197	19.248	ug/l	96
44) Isopropyl Acetate	8.688	43	244168	19.865	ug/l	96
45) 1,4-Dioxane	9.694	88	37418	395.019	ug/l	96
46) Methyl methacrylate	9.683	41	119919	20.296	ug/l	94
47) n-amyl Acetate	12.494	43	167656	16.981	ug/l	95
48) t-1,3-Dichloropropene	10.835	75	203763	22.542	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	232485	23.266	ug/l #	85
50) 1,1,2-Trichloroethane	11.018	97	123428	21.173	ug/l	97
51) Ethyl methacrylate	10.871	69	175956	21.000	ug/l	88
52) 1,3-Dichloropropane	11.165	76	223320	21.428	ug/l	100
53) Dibromochloromethane	11.359	129	135403	21.712	ug/l	100
54) 1,2-Dibromoethane	11.471	107	135309	23.116	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	468472	121.565	ug/l	98
56) Bromoform	12.582	173	76153	18.635	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	819152	98.122	ug/l	95
59) 2-Hexanone	11.200	43	509529	80.121	ug/l	93
61) Tetrachloroethene	11.106	164	123900	21.149	ug/l	98
62) Toluene	10.635	91	603583	20.884	ug/l	98
64) Chlorobenzene	11.894	112	353700	20.508	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	134100	21.196	ug/l	97
66) Ethyl Benzene	11.965	91	632662	20.832	ug/l	100
67) m/p-Xylenes	12.077	106	386890	34.217	ug/l	93
68) o-Xylene	12.400	106	184583	17.032	ug/l	98
69) Styrene	12.412	104	310258	17.294	ug/l	99
70) Isopropylbenzene	12.700	105	469050	17.351	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	146213	15.880	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	134283m	15.696	ug/l	
73) Bromobenzene	12.982	156	114076	17.165	ug/l	99
74) n-propylbenzene	13.035	91	544492	16.837	ug/l	99
75) 2-Chlorotoluene	13.129	91	349943	17.024	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	402657	18.008	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	45101	16.100	ug/l	90
78) 4-Chlorotoluene	13.224	91	352059	17.245	ug/l	97
79) tert-butylbenzene	13.441	119	313925	17.928	ug/l	100
80) 1,2,4-Trimethylbenzene	13.482	105	397833	18.145	ug/l	99
81) sec-Butylbenzene	13.618	105	436735	17.669	ug/l	99
82) p-Isopropyltoluene	13.735	119	367575	18.311	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	208762	17.239	ug/l	97
84) 1,4-Dichlorobenzene	13.818	146	205525	17.291	ug/l	97
85) n-Butylbenzene	14.059	91	296437	17.656	ug/l	96
86) Hexachloroethane	14.335	117	67022	17.170	ug/l	93
87) 1,2-Dichlorobenzene	14.106	146	199010	17.201	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	28180	16.736	ug/l	99
89) 1,2,4-Trichlorobenzene	15.841	180	93843	17.508	ug/l	97
90) Hexachlorobutadiene	15.500	225	51211	19.387	ug/l	100
91) Naphthalene	15.647	128	295339	17.170	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	93843	17.508	ug/l	97

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

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