

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030823\
 Data File : VN076889.D
 Acq On : 08 Mar 2023 20:23
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN030823

Quant Time: Mar 09 04:21:43 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

Manual Integrations APPROVED

Reviewed By : John Carlone 03/09/2023
 Supervised By : Mahesh Dadoda 03/09/2023

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

Internal Standards						
1) Bromochloromethane	7.825	128	46729	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	345462	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	377024	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	132674	30.889	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.967%			
60) 4-Bromofluorobenzene	12.848	95	217210	30.440	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.467%			
63) Toluene-d8	10.571	98	396089	29.869	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.567%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.143	85	119954	20.060	ug/l	96
3) Chloromethane	2.378	50	101367	18.547	ug/l	95
4) Vinyl Chloride	2.531	62	96072	19.276	ug/l	95
5) Bromomethane	2.984	94	60339	18.931	ug/l	87
6) Chloroethane	3.143	64	53913	18.409	ug/l	93
7) Trichlorofluoromethane	3.519	101	182872	19.641	ug/l	97
8) Diethyl Ether	3.978	74	69845	20.003	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.390	101	105123	19.930	ug/l	80
10) 1,1-Dichloroethene	4.360	96	99053	19.347	ug/l	96
11) Methyl Iodide	4.607	142	115608	18.740	ug/l	91
12) Methyl Acetate	5.048	43	166919	19.823	ug/l	97
13) Acrolein	4.195	56	112663	90.502	ug/l	97
14) Acrylonitrile	5.731	53	267618	96.476	ug/l #	64
15) Acetone	4.437	58	74199	98.287	ug/l #	68
16) Carbon Disulfide	4.731	76	283634	19.980	ug/l	97
17) Allyl chloride	5.037	41	157540	20.516	ug/l	91
18) Methylene Chloride	5.295	84	116440	19.444	ug/l	87
19) trans-1,2-Dichloroethene	5.801	96	110301	20.446	ug/l	94
20) Diisopropyl ether	6.684	45	348013	20.089	ug/l	95
21) 1,1-Dichloroethane	6.578	63	203297	19.720	ug/l	96
22) cis-1,2-Dichloroethene	7.495	96	123907	20.042	ug/l	96
23) tert-Butyl Alcohol	5.531	59	79702	98.932	ug/l #	100
24) Methyl tert-Butyl Ether	5.813	73	336837	20.180	ug/l	92
25) Chloroform	7.972	83	205199	19.377	ug/l	97
26) Cyclohexane	8.266	56	187273	19.897	ug/l #	94
29) 1,1-Dichloropropene	8.377	75	159787	19.637	ug/l	98
30) 2-Butanone	7.495	43	342074	92.144	ug/l	95
31) 2,2-Dichloropropane	7.507	77	152597	18.928	ug/l #	61
32) 1,1,1-Trichloroethane	8.178	97	183189	19.301	ug/l	96
33) Carbon Tetrachloride	8.366	117	160595	19.136	ug/l	96
34) Benzene	8.613	78	477763	19.152	ug/l	98
35) Methacrylonitrile	7.789	41	85354	20.433	ug/l	89
36) 1,2-Dichloroethane	8.677	62	160883	19.241	ug/l	98
37) Trichloroethene	9.354	130	114766	18.666	ug/l	98
38) Methylcyclohexane	9.607	83	193940	19.148	ug/l	99
39) 1,2-Dichloropropane	9.624	63	120960	18.872	ug/l	100
40) Dibromomethane	9.713	93	76883	18.828	ug/l	93
41) Bromodichloromethane	9.895	83	158267	18.913	ug/l	98
42) Vinyl Acetate	6.613	43	1087407	93.967	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	147280	19.661	ug/l	99
44) Isopropyl Acetate	8.695	43	232389	19.138	ug/l	91
45) 1,4-Dioxane	9.701	88	38453	376.421	ug/l #	88
46) Methyl methacrylate	9.683	41	113271	19.155	ug/l	91
47) n-amyl Acetate	12.495	43	189596	19.186	ug/l	91
48) t-1,3-Dichloropropene	10.836	75	163770	19.539	ug/l	97
49) cis-1,3-Dichloropropene	10.313	75	183947	19.322	ug/l #	89
50) 1,1,2-Trichloroethane	11.019	97	111159	18.582	ug/l	94
51) Ethyl methacrylate	10.877	69	170028	19.280	ug/l	88
52) 1,3-Dichloropropane	11.166	76	194819	18.855	ug/l	99
53) Dibromochloromethane	11.360	129	114308	18.731	ug/l	99
54) 1,2-Dibromoethane	11.471	107	111308	19.282	ug/l	99
55) 2-Chloroethyl vinyl ether	10.166	63	294936	95.386	ug/l	98
56) Bromoform	12.577	173	78969	19.342	ug/l	97
58) 4-Methyl-2-Pentanone	10.448	43	735955	96.628	ug/l #	90
59) 2-Hexanone	11.201	43	523118	96.686	ug/l #	89
61) Tetrachloroethene	11.107	164	111877	18.797	ug/l	90
62) Toluene	10.636	91	503955	19.398	ug/l	99
64) Chlorobenzene	11.895	112	300280	19.636	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.960	131	108937	18.966	ug/l	96
66) Ethyl Benzene	11.966	91	548005	19.429	ug/l	99
67) m/p-Xylenes	12.071	106	420061	39.317	ug/l	92
68) o-Xylene	12.401	106	202962	19.458	ug/l	95
69) Styrene	12.413	104	334742	19.787	ug/l	98
70) Isopropylbenzene	12.701	105	535836	19.743	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.936	83	156482	19.122	ug/l	98
72) 1,2,3-Trichloropropane	12.995	75	144881m	19.300	ug/l	
73) Bromobenzene	12.983	156	117320	19.155	ug/l	92
74) n-propylbenzene	13.036	91	639519	19.963	ug/l	99
75) 2-Chlorotoluene	13.130	91	386123	19.490	ug/l	97
76) 1,3,5-Trimethylbenzene	13.177	105	462741	19.698	ug/l	94
77) t-1,4-Dichloro-2-butene	12.736	75	44794	19.548	ug/l	95
78) 4-Chlorotoluene	13.224	91	378803	19.835	ug/l	93
79) tert-butylbenzene	13.442	119	383615	19.528	ug/l	95
80) 1,2,4-Trimethylbenzene	13.483	105	462334	20.027	ug/l	94
81) sec-Butylbenzene	13.618	105	553791	19.703	ug/l	100
82) p-Isopropyltoluene	13.730	119	456204	20.083	ug/l	97
83) 1,3-Dichlorobenzene	13.736	146	230025	20.298	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	224117	20.360	ug/l	96
85) n-Butylbenzene	14.059	91	394572	20.492	ug/l	99
86) Hexachloroethane	14.336	117	78743	19.414	ug/l	95
87) 1,2-Dichlorobenzene	14.107	146	224159	19.836	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.724	75	32003	20.079	ug/l	97
89) 1,2,4-Trichlorobenzene	15.395	180	123661	20.514	ug/l	99
90) Hexachlorobutadiene	15.506	225	59952	18.864	ug/l	97
91) Naphthalene	15.642	128	386791	20.230	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	123353	20.411	ug/l	98

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

