

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021023\
 Data File : VN076602.D
 Acq On : 10 Feb 2023 11:35
 Operator : JC\MD
 Sample : VN0210WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0210WBS01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Feb 11 00:53:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 10 05:40:47 2023
 Response via : Initial Calibration

02/13/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.822	128	30727	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.104	114	219859	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.869	117	238281	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.581	65	103754	28.649	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.500%
60) 4-Bromofluorobenzene	12.851	95	150101	27.903	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.000%
63) Toluene-d8	10.569	98	254577	29.097	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.140	85	75034	17.643	ug/l	93
3) Chloromethane	2.375	50	79151	15.478	ug/l	99
4) Vinyl Chloride	2.528	62	69440	15.552	ug/l	98
5) Bromomethane	2.963	94	40192	17.930	ug/l	89
6) Chloroethane	3.134	64	36712	15.326	ug/l #	87
7) Trichlorofluoromethane	3.510	101	139103	18.347	ug/l	92
8) Diethyl Ether	3.975	74	45772	19.034	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.387	101	72442	19.849	ug/l	76
10) 1,1-Dichloroethene	4.351	96	63376	18.479	ug/l	84
11) Methyl Iodide	4.599	142	96084	19.283	ug/l	81
12) Methyl Acetate	5.046	43	125649	17.458	ug/l #	86
13) Acrolein	4.193	56	92092	99.899	ug/l	98
14) Acrylonitrile	5.728	53	184458	87.479	ug/l	98
15) Acetone	4.440	58	55793	91.640	ug/l #	58
16) Carbon Disulfide	4.722	76	181851	19.293	ug/l #	94
17) Allyl chloride	5.040	41	133792m	20.235	ug/l	
18) Methylene Chloride	5.293	84	76806	18.925	ug/l	96
19) trans-1,2-Dichloroethene	5.804	96	68619	19.476	ug/l	92
20) Diisopropyl ether	6.687	45	262623	17.401	ug/l	95
21) 1,1-Dichloroethane	6.581	63	146603	17.813	ug/l	97
22) cis-1,2-Dichloroethene	7.492	96	79237	18.769	ug/l	90
23) tert-Butyl Alcohol	5.522	59	65414	92.449	ug/l #	100
24) Methyl tert-Butyl Ether	5.810	73	240161	19.443	ug/l	96
25) Chloroform	7.969	83	147398	18.099	ug/l	93
26) Cyclohexane	8.269	56	127686	17.483	ug/l #	95
29) 1,1-Dichloropropene	8.375	75	110504	19.418	ug/l	95
30) 2-Butanone	7.492	43	280981	91.471	ug/l	96
31) 2,2-Dichloropropane	7.492	77	118341	20.028	ug/l #	76
32) 1,1,1-Trichloroethane	8.175	97	133107	18.852	ug/l	99
33) Carbon Tetrachloride	8.363	117	116001	19.044	ug/l	91
34) Benzene	8.616	78	308061	17.618	ug/l #	90
35) Methacrylonitrile	7.787	41	65835	18.639	ug/l	88
36) 1,2-Dichloroethane	8.675	62	124043	18.499	ug/l	95
37) Trichloroethene	9.357	130	71200	19.887	ug/l	85
38) Methylcyclohexane	9.604	83	129103	20.496	ug/l	92
39) 1,2-Dichloropropane	9.628	63	83363	19.977	ug/l	98
40) Dibromomethane	9.710	93	53186	19.374	ug/l	95
41) Bromodichloromethane	9.892	83	113688	19.696	ug/l #	92
42) Vinyl Acetate	6.616	43	917540m	91.830	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.569	43	114611m	18.297	ug/l	
44) Isopropyl Acetate	8.698	43	181604	17.626	ug/l	96
45) 1,4-Dioxane	9.692	88	33840	402.898	ug/l	94
46) Methyl methacrylate	9.681	41	90078	18.132	ug/l	93
47) n-amyl Acetate	12.498	43	162121	18.512	ug/l	94
48) t-1,3-Dichloropropene	10.839	75	113599	19.551	ug/l	100
49) cis-1,3-Dichloropropene	10.316	75	126614	19.712	ug/l	96
50) 1,1,2-Trichloroethane	11.022	97	72653	19.487	ug/l	93
51) Ethyl methacrylate	10.880	69	114656	19.368	ug/l	97
52) 1,3-Dichloropropane	11.163	76	132407	19.052	ug/l	99
53) Dibromochloromethane	11.363	129	75888	19.589	ug/l	100
54) 1,2-Dibromoethane	11.475	107	71044	18.831	ug/l	99
55) 2-Chloroethyl vinyl ether	10.163	63	266272	98.472	ug/l	99
56) Bromoform	12.586	173	50363	20.185	ug/l	97
58) 4-Methyl-2-Pentanone	10.445	43	560916	84.208	ug/l	97
59) 2-Hexanone	11.198	43	425899	87.938	ug/l	95
61) Tetrachloroethene	11.110	164	58169	19.097	ug/l	96
62) Toluene	10.633	91	325948	18.450	ug/l	100
64) Chlorobenzene	11.892	112	190413	18.606	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.963	131	73252	18.880	ug/l	96
66) Ethyl Benzene	11.969	91	367999	19.001	ug/l	100
67) m/p-Xylenes	12.075	106	278435	38.317	ug/l	95
68) o-Xylene	12.398	106	135967	18.993	ug/l	92
69) Styrene	12.416	104	220455	19.401	ug/l	95
70) Isopropylbenzene	12.698	105	353627	18.433	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.939	83	108758	16.260	ug/l	99
72) 1,2,3-Trichloropropane	12.998	75	108840m	17.816	ug/l	
73) Bromobenzene	12.980	156	76766	16.863	ug/l	98
74) n-propylbenzene	13.039	91	426057	17.316	ug/l	97
75) 2-Chlorotoluene	13.127	91	262792	16.979	ug/l	94
76) 1,3,5-Trimethylbenzene	13.174	105	313092	17.477	ug/l	96
77) t-1,4-Dichloro-2-butene	12.739	75	32493	17.634	ug/l	79
78) 4-Chlorotoluene	13.222	91	265188	17.040	ug/l	95
79) tert-butylbenzene	13.439	119	264595	17.400	ug/l	91
80) 1,2,4-Trimethylbenzene	13.486	105	308057	17.436	ug/l	95
81) sec-Butylbenzene	13.621	105	372043	17.473	ug/l	99
82) p-Isopropyltoluene	13.733	119	308864	18.053	ug/l	96
83) 1,3-Dichlorobenzene	13.739	146	143872	17.087	ug/l	97
84) 1,4-Dichlorobenzene	13.816	146	141864	16.887	ug/l	96
85) n-Butylbenzene	14.057	91	264052	16.620	ug/l	99
86) Hexachloroethane	14.339	117	54356	16.363	ug/l	92
87) 1,2-Dichlorobenzene	14.110	146	146251	15.823	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.721	75	24767	18.166	ug/l	82
89) 1,2,4-Trichlorobenzene	15.398	180	76596	19.870	ug/l	98
90) Hexachlorobutadiene	15.504	225	38302	20.568	ug/l	98
91) Naphthalene	15.645	128	247788	18.840	ug/l	100
92) 1,2,3-Trichlorobenzene	15.845	180	74671	19.408	ug/l	97

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

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