

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090822\
 Data File : VN074358.D
 Acq On : 08 Sep 2022 14:51
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN090822

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/09/2022
 Supervised By : Mahesh Dadoda 09/09/2022

Quant Time: Sep 09 05:28:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 09 05:24:20 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.587	128	68700	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	407401	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	381179	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	217720	30.867	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.900%			
60) 4-Bromofluorobenzene	12.674	95	224936	29.508	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.367%			
63) Toluene-d8	10.381	98	639285	29.859	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.533%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	96925	19.930	ug/l	97
3) Chloromethane	2.263	50	130311	19.443	ug/l	89
4) Vinyl Chloride	2.405	62	142449	19.875	ug/l	99
5) Bromomethane	2.793	94	113498	25.687	ug/l	96
6) Chloroethane	2.957	64	104443	21.495	ug/l	98
7) Trichlorofluoromethane	3.310	101	158737	19.578	ug/l	99
8) Diethyl Ether	3.763	74	66469	19.665	ug/l	87
9) 1,1,2-Trichlorotrifluo...	4.140	101	96565	20.356	ug/l	61
10) 1,1-Dichloroethene	4.116	96	91093	19.893	ug/l	95
11) Methyl Iodide	4.346	142	110555	19.664	ug/l	90
12) Methyl Acetate	4.775	43	194971	19.594	ug/l #	89
13) Acrolein	3.975	56	129785	96.688	ug/l	100
14) Acrylonitrile	5.475	53	387475	100.465	ug/l	97
15) Acetone	4.216	58	103639	101.405	ug/l	100
16) Carbon Disulfide	4.452	76	264183	20.132	ug/l	96
17) Allyl chloride	4.763	41	193871	19.606	ug/l	93
18) Methylene Chloride	5.004	84	116497	19.986	ug/l	88
19) trans-1,2-Dichloroethene	5.504	96	102145m	19.509	ug/l	
20) Diisopropyl ether	6.410	45	406724	19.974	ug/l	90
21) 1,1-Dichloroethane	6.304	63	209440	19.582	ug/l	98
22) cis-1,2-Dichloroethene	7.245	96	121548	19.102	ug/l	91
23) tert-Butyl Alcohol	5.287	59	176337	105.588	ug/l #	100
24) Methyl tert-Butyl Ether	5.528	73	378797m	19.661	ug/l	
25) Chloroform	7.751	83	212630	19.568	ug/l	95
26) Cyclohexane	8.022	56	194398	19.800	ug/l #	95
29) 1,1-Dichloropropene	8.145	75	156537	19.329	ug/l	95
30) 2-Butanone	7.257	43	587972	102.521	ug/l	94
31) 2,2-Dichloropropane	7.245	77	195009	19.679	ug/l #	80
32) 1,1,1-Trichloroethane	7.939	97	189543	18.986	ug/l	95
33) Carbon Tetrachloride	8.134	117	161795	18.729	ug/l	98
34) Benzene	8.387	78	484343	19.452	ug/l #	94
35) Methacrylonitrile	7.563	41	114016	21.636	ug/l	94
36) 1,2-Dichloroethane	8.457	62	175122	19.224	ug/l	100
37) Trichloroethene	9.151	130	107977	18.871	ug/l	94
38) Methylcyclohexane	9.398	83	196371	19.262	ug/l	92
39) 1,2-Dichloropropane	9.428	63	126528	19.733	ug/l	97
40) Dibromomethane	9.516	93	88043	19.735	ug/l	94
41) Bromodichloromethane	9.698	83	171473	19.343	ug/l	95
42) Vinyl Acetate	6.345	43	1855308	98.013	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.334	43	223349	19.626	ug/l	100
44) Isopropyl Acetate	8.492	43	359709	19.887	ug/l	98
45) 1,4-Dioxane	9.504	88	69100	412.731	ug/l	95
46) Methyl methacrylate	9.498	41	151470	19.581	ug/l	92
47) n-amyl Acetate	12.333	43	317393	19.307	ug/l	95
48) t-1,3-Dichloropropene	10.657	75	192843	18.624	ug/l	97
49) cis-1,3-Dichloropropene	10.128	75	203004	19.210	ug/l	95
50) 1,1,2-Trichloroethane	10.839	97	121361	19.229	ug/l	97
51) Ethyl methacrylate	10.704	69	220920	19.673	ug/l	91
52) 1,3-Dichloropropane	10.986	76	215884	19.723	ug/l	100
53) Dibromochloromethane	11.180	129	125839	18.542	ug/l	99
54) 1,2-Dibromoethane	11.286	107	126169	19.070	ug/l	96
55) 2-Chloroethyl vinyl ether	9.981	63	500189	92.731	ug/l	98
56) Bromoform	12.398	173	93227	18.033	ug/l #	99
58) 4-Methyl-2-Pentanone	10.269	43	1156572	97.615	ug/l	98
59) 2-Hexanone	11.028	43	918286	99.475	ug/l	99
61) Tetrachloroethene	10.916	164	87890	18.584	ug/l	95
62) Toluene	10.445	91	534292	19.387	ug/l	98
64) Chlorobenzene	11.710	112	311885	19.124	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.780	131	119774	19.391	ug/l	99
66) Ethyl Benzene	11.786	91	591112	19.393	ug/l	99
67) m/p-Xylenes	11.892	106	448339	38.577	ug/l	99
68) o-Xylene	12.222	106	229183	19.322	ug/l	99
69) Styrene	12.239	104	364875	18.597	ug/l	97
70) Isopropylbenzene	12.522	105	582054	18.895	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.769	83	206741	19.246	ug/l	98
72) 1,2,3-Trichloropropane	12.827	75	190045m	21.541	ug/l	
73) Bromobenzene	12.804	156	125788	18.827	ug/l	86
74) n-propylbenzene	12.863	91	672823	18.792	ug/l	98
75) 2-Chlorotoluene	12.951	91	406321	19.017	ug/l	97
76) 1,3,5-Trimethylbenzene	13.004	105	490809	18.949	ug/l	99
77) t-1,4-Dichloro-2-butene	12.569	75	72271	18.524	ug/l	99
78) 4-Chlorotoluene	13.045	91	391708	18.626	ug/l	96
79) tert-butylbenzene	13.269	119	427991	18.584	ug/l	99
80) 1,2,4-Trimethylbenzene	13.310	105	484713	18.590	ug/l #	81
81) sec-Butylbenzene	13.445	105	607103	18.902	ug/l	99
82) p-Isopropyltoluene	13.557	119	495245	18.653	ug/l	100
83) 1,3-Dichlorobenzene	13.557	146	235219	18.719	ug/l	99
84) 1,4-Dichlorobenzene	13.639	146	230810	18.543	ug/l	100
85) n-Butylbenzene	13.886	91	407242	17.478	ug/l	97
86) Hexachloroethane	14.151	117	99293	19.151	ug/l	94
87) 1,2-Dichlorobenzene	13.933	146	242105	18.635	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.545	75	49802	18.930	ug/l	97
89) 1,2,4-Trichlorobenzene	15.198	180	122052	17.969	ug/l	99
90) Hexachlorobutadiene	15.304	225	51861	17.890	ug/l	97
91) Naphthalene	15.439	128	498371	18.303	ug/l	99
92) 1,2,3-Trichlorobenzene	15.633	180	126582	18.355	ug/l	99

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

