

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092722\
 Data File : VN074640.D
 Acq On : 27 Sep 2022 20:30
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/28/2022
 Supervised By : Mahesh Dadoda 09/28/2022

Quant Time: Sep 28 08:10:01 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 28 07:48:31 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.492	128	102469	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.828	114	568853	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.622	117	507240	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.286	65	292356	30.259	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.867%			
60) 4-Bromofluorobenzene	12.610	95	271614	27.567	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 91.900%			
63) Toluene-d8	10.310	98	892430	31.192	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.967%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.999	85	117806	19.563	ug/l	92
3) Chloromethane	2.216	50	217936	24.644	ug/l	99
4) Vinyl Chloride	2.352	62	290246	25.636	ug/l	94
5) Bromomethane	2.740	94	206055	28.237	ug/l	94
6) Chloroethane	2.899	64	205579m	25.689	ug/l	
7) Trichlorofluoromethane	3.246	101	217728	20.706	ug/l	88
8) Diethyl Ether	3.681	74	121887	21.975	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.051	101	127795	18.957	ug/l	73
10) 1,1-Dichloroethene	4.022	96	138429	19.915	ug/l	93
11) Methyl Iodide	4.257	142	182143	20.459	ug/l	93
12) Methyl Acetate	4.669	43	335060	22.514	ug/l	98
13) Acrolein	3.887	56	120057	99.114	ug/l	99
14) Acrylonitrile	5.363	53	665693	110.355	ug/l	98
15) Acetone	4.122	58	167107	105.472	ug/l	88
16) Carbon Disulfide	4.357	76	379327	19.417	ug/l	97
17) Allyl chloride	4.657	41	306292	21.608	ug/l	98
18) Methylene Chloride	4.904	84	193704	21.859	ug/l	95
19) trans-1,2-Dichloroethene	5.404	96	157187	20.009	ug/l #	94
20) Diisopropyl ether	6.304	45	674307	21.748	ug/l	96
21) 1,1-Dichloroethane	6.198	63	335533	21.428	ug/l	98
22) cis-1,2-Dichloroethene	7.151	96	189383	19.980	ug/l	99
23) tert-Butyl Alcohol	5.175	59	278797	112.242	ug/l #	100
24) Methyl tert-Butyl Ether	5.416	73	611952	21.246	ug/l	99
25) Chloroform	7.657	83	323153	20.818	ug/l	94
26) Cyclohexane	7.939	56	270715	19.226	ug/l #	98
29) 1,1-Dichloropropene	8.069	75	215362	20.269	ug/l	97
30) 2-Butanone	7.163	43	963699	118.884	ug/l	99
31) 2,2-Dichloropropane	7.145	77	212627	16.764	ug/l #	81
32) 1,1,1-Trichloroethane	7.857	97	258723	20.613	ug/l	98
33) Carbon Tetrachloride	8.051	117	208802	19.890	ug/l	93
34) Benzene	8.310	78	748205	21.272	ug/l	96
35) Methacrylonitrile	7.481	41	196574	25.488	ug/l	85
36) 1,2-Dichloroethane	8.381	62	256327	22.317	ug/l	99
37) Trichloroethene	9.075	130	149093	19.962	ug/l	91
38) Methylcyclohexane	9.322	83	248372	18.061	ug/l	96
39) 1,2-Dichloropropane	9.357	63	208567	22.396	ug/l	97
40) Dibromomethane	9.439	93	134408	22.368	ug/l	97
41) Bromodichloromethane	9.633	83	256982	21.514	ug/l	99
42) Vinyl Acetate	6.245	43	3052957	115.862	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.239	43	356671	22.718	ug/l	100
44) Isopropyl Acetate	8.416	43	611010	23.966	ug/l	98
45) 1,4-Dioxane	9.433	88	101642	467.177	ug/l	98
46) Methyl methacrylate	9.428	41	251497	23.684	ug/l	96
47) n-amyl Acetate	12.269	43	490559	21.023	ug/l	98
48) t-1,3-Dichloropropene	10.592	75	282320	19.469	ug/l	97
49) cis-1,3-Dichloropropene	10.063	75	304980	20.212	ug/l	91
50) 1,1,2-Trichloroethane	10.775	97	190617	21.820	ug/l	89
51) Ethyl methacrylate	10.639	69	332574	20.303	ug/l	100
52) 1,3-Dichloropropane	10.922	76	339509	21.927	ug/l	99
53) Dibromochloromethane	11.110	129	182919	19.812	ug/l	96
54) 1,2-Dibromoethane	11.216	107	184939	20.463	ug/l	96
55) 2-Chloroethyl vinyl ether	9.916	63	677047	106.504	ug/l	98
56) Bromoform	12.333	173	128093	17.749	ug/l	100
58) 4-Methyl-2-Pentanone	10.204	43	1954135	124.140	ug/l	97
59) 2-Hexanone	10.963	43	1482279	121.577	ug/l	98
61) Tetrachloroethene	10.851	164	112027	19.798	ug/l	92
62) Toluene	10.375	91	753962	20.299	ug/l	100
64) Chlorobenzene	11.645	112	426661	20.047	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.722	131	164268	20.542	ug/l	97
66) Ethyl Benzene	11.722	91	797376	20.217	ug/l	97
67) m/p-Xylenes	11.827	106	597491	37.729	ug/l	98
68) o-Xylene	12.157	106	309878	19.219	ug/l	97
69) Styrene	12.169	104	494338	18.224	ug/l	99
70) Isopropylbenzene	12.457	105	747868	18.180	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.704	83	326048	22.329	ug/l	95
72) 1,2,3-Trichloropropane	12.757	75	235963m	21.347	ug/l	
73) Bromobenzene	12.739	156	157828	19.095	ug/l	91
74) n-propylbenzene	12.798	91	845593	18.243	ug/l	99
75) 2-Chlorotoluene	12.886	91	514471	18.298	ug/l	99
76) 1,3,5-Trimethylbenzene	12.939	105	604890	17.440	ug/l	97
77) t-1,4-Dichloro-2-butene	12.504	75	108246	18.906	ug/l	93
78) 4-Chlorotoluene	12.980	91	476530	16.911	ug/l	99
79) tert-butylbenzene	13.198	119	525363	17.313	ug/l	98
80) 1,2,4-Trimethylbenzene	13.245	105	619434	18.082	ug/l	96
81) sec-Butylbenzene	13.374	105	722420	16.817	ug/l	99
82) p-Isopropyltoluene	13.492	119	572279	16.194	ug/l	98
83) 1,3-Dichlorobenzene	13.492	146	285249	16.793	ug/l	97
84) 1,4-Dichlorobenzene	13.568	146	273079	16.164	ug/l	98
85) n-Butylbenzene	13.815	91	482678	16.009	ug/l	98
86) Hexachloroethane	14.086	117	131818	19.365	ug/l	97
87) 1,2-Dichlorobenzene	13.863	146	302515	17.411	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.474	75	69617	22.765	ug/l	91
89) 1,2,4-Trichlorobenzene	15.133	180	131013	18.078	ug/l	96
90) Hexachlorobutadiene	15.233	225	56304	17.634	ug/l	100
91) Naphthalene	15.362	128	592865	19.500	ug/l	100
92) 1,2,3-Trichlorobenzene	15.557	180	137460	18.918	ug/l	98

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

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