

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092223\
 Data File : VN079334.D
 Acq On : 22 Sep 2023 17:05
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone
 09/25/2023
 Supervised By :Mahesh
 Dadoda
 09/25/2023

Quant Time: Sep 23 00:41:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	34172	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	185004	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	183414	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	85736	33.394	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 111.300%#			
60) 4-Bromofluorobenzene	12.853	95	80764	29.885	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.600%			
63) Toluene-d8	10.571	98	246987	28.815	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.033%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	40174	21.079	ug/l	98
3) Chloromethane	2.365	50	48948	25.613	ug/l	96
4) Vinyl Chloride	2.518	62	57059	30.178	ug/l	94
5) Bromomethane	2.959	94	33072	28.500	ug/l	95
6) Chloroethane	3.124	64	37710	32.566	ug/l #	81
7) Trichlorofluoromethane	3.500	101	71180	31.622	ug/l	94
8) Diethyl Ether	3.959	74	24432	29.603	ug/l	87
9) 1,1,2-Trichlorotrifluo...	4.377	101	40562	32.699	ug/l	83
10) 1,1-Dichloroethene	4.347	96	37161	30.918	ug/l	98
11) Methyl Iodide	4.594	142	41126	27.163	ug/l	96
12) Methyl Acetate	5.024	43	85674	30.586	ug/l	94
13) Acrolein	4.183	56	30729	120.454	ug/l	97
14) Acrylonitrile	5.724	53	108455	131.977	ug/l	97
15) Acetone	4.430	58	29993	139.912	ug/l	83
16) Carbon Disulfide	4.718	76	101051	28.453	ug/l	100
17) Allyl chloride	5.024	41	55017	28.486	ug/l	94
18) Methylene Chloride	5.277	84	46434	28.803	ug/l #	81
19) trans-1,2-Dichloroethene	5.794	96	42311	28.136	ug/l	95
20) Diisopropyl ether	6.671	45	146513	25.411	ug/l #	89
21) 1,1-Dichloroethane	6.571	63	87083	25.781	ug/l	96
22) cis-1,2-Dichloroethene	7.488	96	49082	20.870	ug/l	93
23) tert-Butyl Alcohol	5.524	59	32455m	102.664	ug/l	
24) Methyl tert-Butyl Ether	5.794	73	127077	26.789	ug/l #	81
25) Chloroform	7.971	83	90376	22.189	ug/l	98
26) Cyclohexane	8.265	56	62927	20.544	ug/l #	96
29) 1,1-Dichloropropene	8.377	75	62678	21.131	ug/l	97
30) 2-Butanone	7.482	43	142430	95.467	ug/l	96
31) 2,2-Dichloropropane	7.494	77	66857	22.597	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	75984	21.744	ug/l	96
33) Carbon Tetrachloride	8.371	117	63663	21.208	ug/l	96
34) Benzene	8.612	78	192025	20.376	ug/l	98
35) Methacrylonitrile	7.777	41	31463	19.586	ug/l	88
36) 1,2-Dichloroethane	8.671	62	70493	22.681	ug/l	96
37) Trichloroethene	9.353	130	44568	20.008	ug/l	93
38) Methylcyclohexane	9.606	83	58886	19.858	ug/l	98
39) 1,2-Dichloropropane	9.624	63	51722	21.276	ug/l	96
40) Dibromomethane	9.712	93	33837	21.107	ug/l	92
41) Bromodichloromethane	9.888	83	70836	22.166	ug/l #	95
42) Vinyl Acetate	6.606	43	412403	116.394	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	61035	21.541	ug/l	99
44) Isopropyl Acetate	8.694	43	100487	19.715	ug/l	96
45) 1,4-Dioxane	9.700	88	16505	325.309	ug/l #	96
46) Methyl methacrylate	9.688	41	45844	20.131	ug/l	88
47) n-amyl Acetate	12.500	43	76003	21.202	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	68516	19.817	ug/l	91
49) cis-1,3-Dichloropropene	10.318	75	77144	21.391	ug/l #	91
50) 1,1,2-Trichloroethane	11.018	97	47791	21.250	ug/l	96
51) Ethyl methacrylate	10.876	69	61207	17.622	ug/l #	87
52) 1,3-Dichloropropane	11.165	76	79850	20.797	ug/l	100
53) Dibromochloromethane	11.359	129	49038	20.789	ug/l	100
54) 1,2-Dibromoethane	11.470	107	45454	19.903	ug/l	95
55) 2-Chloroethyl vinyl ether	10.165	63	149957	121.506	ug/l	99
56) Bromoform	12.582	173	32933	20.037	ug/l	96
58) 4-Methyl-2-Pentanone	10.447	43	305331	90.717	ug/l	94
59) 2-Hexanone	11.200	43	206250	87.256	ug/l	95
61) Tetrachloroethene	11.106	164	37536	18.808	ug/l	95
62) Toluene	10.635	91	202334	18.946	ug/l	100
64) Chlorobenzene	11.894	112	126099	20.240	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	49908	20.924	ug/l	98
66) Ethyl Benzene	11.965	91	222653	20.707	ug/l	96
67) m/p-Xylenes	12.076	106	169997	42.017	ug/l	100
68) o-Xylene	12.400	106	80881	20.729	ug/l	99
69) Styrene	12.417	104	129251	20.768	ug/l	98
70) Isopropylbenzene	12.700	105	206144	20.785	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	72321	19.493	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	54994m	17.616	ug/l	
73) Bromobenzene	12.982	156	47262	19.077	ug/l	97
74) n-propylbenzene	13.041	91	253972	22.475	ug/l	98
75) 2-Chlorotoluene	13.129	91	156945	21.660	ug/l	97
76) 1,3,5-Trimethylbenzene	13.176	105	183531	22.380	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	18568	16.894	ug/l	88
78) 4-Chlorotoluene	13.223	91	149025	21.781	ug/l	98
79) tert-butylbenzene	13.441	119	142915	21.232	ug/l	94
80) 1,2,4-Trimethylbenzene	13.488	105	180909	23.100	ug/l	96
81) sec-Butylbenzene	13.617	105	205765	22.342	ug/l	98
82) p-Isopropyltoluene	13.735	119	164524	22.616	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	85093	21.627	ug/l	100
84) 1,4-Dichlorobenzene	13.817	146	78895	21.380	ug/l	99
85) n-Butylbenzene	14.059	91	127538	23.018	ug/l	96
86) Hexachloroethane	14.335	117	32404	22.497	ug/l	96
87) 1,2-Dichlorobenzene	14.111	146	84845	21.851	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	9989	15.928	ug/l	93
89) 1,2,4-Trichlorobenzene	15.841	180	25337	15.249	ug/l	97
90) Hexachlorobutadiene	15.500	225	16613	16.461	ug/l	96
91) Naphthalene	15.647	128	56061	12.912	ug/l #	97
92) 1,2,3-Trichlorobenzene	15.841	180	25337	15.249	ug/l	97

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

