

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091123\
 Data File : VN079208.D
 Acq On : 11 Sep 2023 09:58
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/12/2023
 Supervised By : Mahesh Dadoda 09/12/2023

Quant Time: Sep 12 02:42:54 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	21168	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	115316	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	107139	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	51391	32.314	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.700%			
60) 4-Bromofluorobenzene	12.853	95	50113	31.744	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.800%			
63) Toluene-d8	10.570	98	161026	32.160	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 107.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	23588	19.980	ug/l	97
3) Chloromethane	2.365	50	30040	25.376	ug/l	90
4) Vinyl Chloride	2.512	62	35720	30.498	ug/l	95
5) Bromomethane	2.953	94	14002	19.479	ug/l	93
6) Chloroethane	3.118	64	25366m	35.364	ug/l	
7) Trichlorofluoromethane	3.494	101	53898	38.654	ug/l	93
8) Diethyl Ether	3.965	74	16709	32.682	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.377	101	27337	35.576	ug/l	99
10) 1,1-Dichloroethene	4.341	96	25540	34.303	ug/l	98
11) Methyl Iodide	4.594	142	15557m	16.588	ug/l	
12) Methyl Acetate	5.030	43	47867	27.587	ug/l #	89
13) Acrolein	4.183	56	22100	139.848	ug/l	99
14) Acrylonitrile	5.724	53	64277	126.269	ug/l	99
15) Acetone	4.430	58	25353	190.921	ug/l	96
16) Carbon Disulfide	4.712	76	69952	31.796	ug/l	97
17) Allyl chloride	5.024	41	34559	28.886	ug/l	91
18) Methylene Chloride	5.277	84	29986	30.027	ug/l	96
19) trans-1,2-Dichloroethene	5.788	96	26809	28.779	ug/l	99
20) Diisopropyl ether	6.683	45	82739	23.166	ug/l	93
21) 1,1-Dichloroethane	6.577	63	50237	24.010	ug/l	100
22) cis-1,2-Dichloroethene	7.488	96	31989	21.958	ug/l	99
23) tert-Butyl Alcohol	5.524	59	22885	116.863	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	79264	26.975	ug/l #	82
25) Chloroform	7.971	83	56179	22.266	ug/l	97
26) Cyclohexane	8.259	56	35430	18.673	ug/l #	94
29) 1,1-Dichloropropene	8.377	75	39235	21.221	ug/l	98
30) 2-Butanone	7.488	43	90231	97.028	ug/l	100
31) 2,2-Dichloropropane	7.500	77	45961	24.922	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	49801	22.863	ug/l	97
33) Carbon Tetrachloride	8.365	117	44255	23.652	ug/l	92
34) Benzene	8.612	78	124953	21.271	ug/l	98
35) Methacrylonitrile	7.782	41	19831	19.805	ug/l	92
36) 1,2-Dichloroethane	8.677	62	42635	22.007	ug/l	98
37) Trichloroethene	9.359	130	31478	22.671	ug/l	98
38) Methylcyclohexane	9.606	83	38938	21.066	ug/l	98
39) 1,2-Dichloropropane	9.629	63	32937	21.737	ug/l	97
40) Dibromomethane	9.718	93	22980	22.997	ug/l	95
41) Bromodichloromethane	9.894	83	47329	23.760	ug/l	99
42) Vinyl Acetate	6.606	43	239387	108.393	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	35916	20.336	ug/l	97
44) Isopropyl Acetate	8.694	43	58679	18.469	ug/l	100
45) 1,4-Dioxane	9.700	88	12067	381.568	ug/l	92
46) Methyl methacrylate	9.688	41	29767	20.971	ug/l	96
47) n-amyl Acetate	12.500	43	44311	19.831	ug/l	96
48) t-1,3-Dichloropropene	10.841	75	46696	21.668	ug/l	95
49) cis-1,3-Dichloropropene	10.318	75	51316	22.829	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	32030	22.848	ug/l	96
51) Ethyl methacrylate	10.882	69	43777	20.221	ug/l	92
52) 1,3-Dichloropropane	11.170	76	53454	22.335	ug/l	99
53) Dibromochloromethane	11.365	129	34661	23.574	ug/l	99
54) 1,2-Dibromoethane	11.476	107	30137	21.171	ug/l	100
55) 2-Chloroethyl vinyl ether	10.165	63	94920	123.391	ug/l	98
56) Bromoform	12.582	173	24112	23.535	ug/l	98
58) 4-Methyl-2-Pentanone	10.453	43	197947	100.682	ug/l	97
59) 2-Hexanone	11.200	43	141465	102.455	ug/l	99
61) Tetrachloroethene	11.106	164	27203	23.334	ug/l	97
62) Toluene	10.635	91	141941	22.754	ug/l	100
64) Chlorobenzene	11.894	112	78846	21.666	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.965	131	32348	23.218	ug/l	96
66) Ethyl Benzene	11.970	91	138819	22.101	ug/l	98
67) m/p-Xylenes	12.076	106	107307	45.404	ug/l	100
68) o-Xylene	12.406	106	51457	22.576	ug/l	99
69) Styrene	12.417	104	86265	23.729	ug/l	100
70) Isopropylbenzene	12.700	105	131551	22.707	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	46312	21.369	ug/l	96
72) 1,2,3-Trichloropropane	12.994	75	36461m	19.995	ug/l	
73) Bromobenzene	12.988	156	33206	22.945	ug/l	91
74) n-propylbenzene	13.041	91	156968	23.779	ug/l	100
75) 2-Chlorotoluene	13.129	91	95686	22.607	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	112943	23.577	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	13049	20.325	ug/l	98
78) 4-Chlorotoluene	13.229	91	91805	22.970	ug/l	100
79) tert-butylbenzene	13.441	119	89162	22.676	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	110833	24.227	ug/l	99
81) sec-Butylbenzene	13.617	105	127497	23.699	ug/l	98
82) p-Isopropyltoluene	13.735	119	105548	24.838	ug/l	99
83) 1,3-Dichlorobenzene	13.741	146	55336	24.077	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	52875	24.530	ug/l	98
85) n-Butylbenzene	14.064	91	77403	23.915	ug/l	99
86) Hexachloroethane	14.341	117	19588	23.281	ug/l	96
87) 1,2-Dichlorobenzene	14.111	146	54723	24.127	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	7455	20.351	ug/l	96
89) 1,2,4-Trichlorobenzene	15.847	180	20139	20.750	ug/l	96
90) Hexachlorobutadiene	15.505	225	13425	22.772	ug/l	96
91) Naphthalene	15.647	128	41866	16.507	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	20139	20.750	ug/l	96

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

