

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092223\
 Data File : VN079328.D
 Acq On : 22 Sep 2023 09:50
 Operator : JC\MD
 Sample : VN0922WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0922WBS01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone
 09/25/2023

Supervised By :Mahesh
 Dadoda
 09/25/2023

Quant Time: Sep 23 00:38:22 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	39828	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	208564	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	192596	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	96931	32.393	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.967%			
60) 4-Bromofluorobenzene	12.853	95	94613	33.340	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 111.133%			
63) Toluene-d8	10.571	98	279573	31.061	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.533%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	44578	20.068	ug/l	100
3) Chloromethane	2.365	50	54854	24.627	ug/l	91
4) Vinyl Chloride	2.518	62	62822	28.508	ug/l	97
5) Bromomethane	2.953	94	35560	26.292	ug/l	92
6) Chloroethane	3.118	64	43266	32.058	ug/l #	81
7) Trichlorofluoromethane	3.495	101	76436	29.135	ug/l	100
8) Diethyl Ether	3.959	74	26164	27.199	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.377	101	43010	29.749	ug/l	77
10) 1,1-Dichloroethene	4.342	96	38559	27.525	ug/l	95
11) Methyl Iodide	4.594	142	44569	25.257	ug/l	96
12) Methyl Acetate	5.030	43	93305	28.580	ug/l	95
13) Acrolein	4.183	56	38936	130.950	ug/l	97
14) Acrylonitrile	5.724	53	118806	124.042	ug/l	98
15) Acetone	4.430	58	40470	161.976	ug/l	87
16) Carbon Disulfide	4.718	76	109214	26.384	ug/l	95
17) Allyl chloride	5.018	41	61795m	27.452	ug/l	
18) Methylene Chloride	5.277	84	51167	27.232	ug/l #	86
19) trans-1,2-Dichloroethene	5.794	96	45277	25.833	ug/l	96
20) Diisopropyl ether	6.671	45	160475	23.880	ug/l #	90
21) 1,1-Dichloroethane	6.571	63	92773	23.565	ug/l	97
22) cis-1,2-Dichloroethene	7.488	96	53073	19.362	ug/l	94
23) tert-Butyl Alcohol	5.530	59	37104m	100.702	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	138128	24.983	ug/l	93
25) Chloroform	7.965	83	95021	20.016	ug/l	96
26) Cyclohexane	8.265	56	65960	18.476	ug/l #	100
29) 1,1-Dichloropropene	8.377	75	66883	20.001	ug/l	97
30) 2-Butanone	7.488	43	170441	101.337	ug/l	96
31) 2,2-Dichloropropane	7.494	77	74317	22.281	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	79974	20.300	ug/l	95
33) Carbon Tetrachloride	8.365	117	67911	20.067	ug/l	97
34) Benzene	8.612	78	204229	19.223	ug/l	98
35) Methacrylonitrile	7.788	41	35703	19.715	ug/l	91
36) 1,2-Dichloroethane	8.677	62	72902	20.806	ug/l	97
37) Trichloroethene	9.359	130	45574	18.148	ug/l	100
38) Methylcyclohexane	9.606	83	63636	19.036	ug/l	97
39) 1,2-Dichloropropane	9.624	63	54292	19.811	ug/l	94
40) Dibromomethane	9.712	93	37102	20.529	ug/l	91
41) Bromodichloromethane	9.894	83	75339	20.912	ug/l #	95
42) Vinyl Acetate	6.612	43	452553	113.298	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	69957	21.901	ug/l	96
44) Isopropyl Acetate	8.694	43	111926	19.478	ug/l	95
45) 1,4-Dioxane	9.694	88	17714	309.699	ug/l	97
46) Methyl methacrylate	9.688	41	48068	18.724	ug/l	83
47) n-amyl Acetate	12.500	43	87490	21.650	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	72547	18.613	ug/l #	89
49) cis-1,3-Dichloropropene	10.318	75	80109	19.704	ug/l	93
50) 1,1,2-Trichloroethane	11.023	97	50765	20.022	ug/l	99
51) Ethyl methacrylate	10.876	69	68353	17.457	ug/l #	89
52) 1,3-Dichloropropane	11.165	76	87653	20.250	ug/l	100
53) Dibromochloromethane	11.359	129	51542	19.383	ug/l	97
54) 1,2-Dibromoethane	11.476	107	47284	18.366	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	132852	95.487	ug/l	99
56) Bromoform	12.582	173	35925	19.388	ug/l	97
58) 4-Methyl-2-Pentanone	10.453	43	335740	94.996	ug/l	95
59) 2-Hexanone	11.200	43	244061	98.330	ug/l	94
61) Tetrachloroethene	11.106	164	38792	18.511	ug/l	96
62) Toluene	10.635	91	219684	19.590	ug/l	99
64) Chlorobenzene	11.894	112	128453	19.635	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	48108	19.208	ug/l	99
66) Ethyl Benzene	11.970	91	224989	19.927	ug/l	97
67) m/p-Xylenes	12.076	106	178064	41.913	ug/l	99
68) o-Xylene	12.400	106	84955	20.735	ug/l	97
69) Styrene	12.417	104	142809	21.853	ug/l	98
70) Isopropylbenzene	12.700	105	231467	22.225	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	79628	20.439	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	63386m	19.337	ug/l	
73) Bromobenzene	12.982	156	54201	20.834	ug/l	98
74) n-propylbenzene	13.041	91	276244	23.280	ug/l	98
75) 2-Chlorotoluene	13.129	91	166397	21.869	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	198675	23.072	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	22481	19.479	ug/l	84
78) 4-Chlorotoluene	13.223	91	159173	22.155	ug/l	99
79) tert-butylbenzene	13.441	119	154035	21.793	ug/l	95
80) 1,2,4-Trimethylbenzene	13.488	105	190730	23.193	ug/l	99
81) sec-Butylbenzene	13.623	105	225227	23.289	ug/l	99
82) p-Isopropyltoluene	13.735	119	178994	23.432	ug/l	97
83) 1,3-Dichlorobenzene	13.735	146	93348	22.594	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	88334	22.797	ug/l	99
85) n-Butylbenzene	14.059	91	126413	21.727	ug/l	98
86) Hexachloroethane	14.335	117	33193	21.946	ug/l	92
87) 1,2-Dichlorobenzene	14.111	146	84367	20.692	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	10534	15.997	ug/l	96
89) 1,2,4-Trichlorobenzene	15.841	180	28298	16.219	ug/l	98
90) Hexachlorobutadiene	15.506	225	20102	18.968	ug/l	98
91) Naphthalene	15.647	128	59800	13.116	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	28298	16.219	ug/l	98

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

