

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092223\
 Data File : VN079329.D
 Acq On : 22 Sep 2023 10:14
 Operator : JC\MD
 Sample : VN0922WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0922WBSD01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Sep 23 00:39:11 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

09/25/2023
 Supervised By :Mahesh
 Dadoda

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	D
-----							05
Internal Standards							
1) Bromochloromethane	7.818	128	36390	30.000	ug/l	0.00	
28) 1,4-Difluorobenzene	9.106	114	193733	30.000	ug/l	0.00	
57) Chlorobenzene-d5	11.870	117	187645	30.000	ug/l	0.00	
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	8.582	65	89687	32.804	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 110	Recovery	= 109.333%		
60) 4-Bromofluorobenzene	12.853	95	89888	32.511	ug/l	0.00	
Spiked Amount	30.000	Range	63 - 112	Recovery	= 108.367%		
63) Toluene-d8	10.570	98	258984	29.533	ug/l	0.00	
Spiked Amount	30.000	Range	91 - 112	Recovery	= 98.433%		
Target Compounds						Qvalue	
2) Dichlorodifluoromethane	2.130	85	46004	22.667	ug/l	98	
3) Chloromethane	2.365	50	56224	27.627	ug/l	96	
4) Vinyl Chloride	2.518	62	65966	32.763	ug/l	89	
5) Bromomethane	2.959	94	35393	28.641	ug/l	95	
6) Chloroethane	3.124	64	44915	36.425	ug/l	94	
7) Trichlorofluoromethane	3.500	101	77413	32.295	ug/l	95	
8) Diethyl Ether	3.965	74	27232	30.984	ug/l	90	
9) 1,1,2-Trichlorotrifluo...	4.371	101	43507	32.935	ug/l	92	
10) 1,1-Dichloroethene	4.347	96	39741	31.049	ug/l	95	
11) Methyl Iodide	4.589	142	43829	27.184	ug/l	98	
12) Methyl Acetate	5.030	43	93097	31.211	ug/l	93	
13) Acrolein	4.189	56	38970	143.447	ug/l	98	
14) Acrylonitrile	5.724	53	120168	137.318	ug/l	98	
15) Acetone	4.436	58	38517	168.724	ug/l	79	
16) Carbon Disulfide	4.712	76	110660	29.259	ug/l	95	
17) Allyl chloride	5.030	41	61997	30.144	ug/l	93	
18) Methylene Chloride	5.277	84	51443	29.966	ug/l	86	
19) trans-1,2-Dichloroethene	5.794	96	44485	27.779	ug/l	92	
20) Diisopropyl ether	6.677	45	159704	26.010	ug/l #	87	
21) 1,1-Dichloroethane	6.571	63	94112	26.164	ug/l	95	
22) cis-1,2-Dichloroethene	7.494	96	54270	21.670	ug/l	94	
23) tert-Butyl Alcohol	5.524	59	38651	114.811	ug/l #	100	
24) Methyl tert-Butyl Ether	5.800	73	139747	27.664	ug/l	93	
25) Chloroform	7.971	83	95457	22.008	ug/l	95	
26) Cyclohexane	8.265	56	68738	21.074	ug/l #	99	
29) 1,1-Dichloropropene	8.377	75	66304	21.346	ug/l	99	
30) 2-Butanone	7.488	43	167759	107.378	ug/l	97	
31) 2,2-Dichloropropane	7.500	77	75139	24.252	ug/l	99	
32) 1,1,1-Trichloroethane	8.171	97	81563	22.288	ug/l	95	
33) Carbon Tetrachloride	8.365	117	69282	22.040	ug/l	97	
34) Benzene	8.612	78	205906	20.864	ug/l	98	
35) Methacrylonitrile	7.788	41	37190	22.108	ug/l	94	
36) 1,2-Dichloroethane	8.676	62	73920	22.712	ug/l	95	
37) Trichloroethene	9.359	130	47297	20.276	ug/l	95	
38) Methylcyclohexane	9.606	83	63613	20.486	ug/l	99	
39) 1,2-Dichloropropane	9.629	63	54787	21.522	ug/l	96	
40) Dibromomethane	9.712	93	35778	21.312	ug/l	94	
41) Bromodichloromethane	9.894	83	74433	22.242	ug/l	95	
42) Vinyl Acetate	6.612	43	457692	123.356	ug/l	96	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	68409	23.055	ug/l	97
44) Isopropyl Acetate	8.694	43	115042	21.553	ug/l	96
45) 1,4-Dioxane	9.700	88	17865	336.249	ug/l	95
46) Methyl methacrylate	9.688	41	50170	21.038	ug/l	84
47) n-amyl Acetate	12.500	43	88103	23.470	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	72230	19.950	ug/l	92
49) cis-1,3-Dichloropropene	10.318	75	81222	21.507	ug/l #	91
50) 1,1,2-Trichloroethane	11.018	97	50561	21.469	ug/l	97
51) Ethyl methacrylate	10.882	69	67316m	18.508	ug/l	
52) 1,3-Dichloropropane	11.170	76	86529	21.521	ug/l	99
53) Dibromochloromethane	11.359	129	51840	20.987	ug/l	99
54) 1,2-Dibromoethane	11.476	107	47322	19.787	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	111390	86.190	ug/l	99
56) Bromoform	12.582	173	38530	22.386	ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	336711	97.785	ug/l	95
59) 2-Hexanone	11.200	43	241901	100.031	ug/l	94
61) Tetrachloroethene	11.112	164	38093	18.657	ug/l	94
62) Toluene	10.635	91	220784	20.208	ug/l	98
64) Chlorobenzene	11.894	112	133258	20.907	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.964	131	51852	21.249	ug/l	98
66) Ethyl Benzene	11.970	91	236488	21.498	ug/l	100
67) m/p-Xylenes	12.076	106	180804	43.681	ug/l	98
68) o-Xylene	12.406	106	88240	22.105	ug/l	97
69) Styrene	12.417	104	144185	22.646	ug/l	98
70) Isopropylbenzene	12.700	105	230659	22.732	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	79890	21.047	ug/l	100
72) 1,2,3-Trichloropropane	13.000	75	63765m	19.966	ug/l	
73) Bromobenzene	12.988	156	52152	20.576	ug/l	93
74) n-propylbenzene	13.041	91	273140	23.626	ug/l	100
75) 2-Chlorotoluene	13.129	91	166427	22.450	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	196797	23.457	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	22774	20.254	ug/l	77
78) 4-Chlorotoluene	13.223	91	160585	22.941	ug/l	97
79) tert-butylbenzene	13.441	119	165319	24.006	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	191557	23.908	ug/l	99
81) sec-Butylbenzene	13.617	105	222306	23.594	ug/l	100
82) p-Isopropyltoluene	13.735	119	180186	24.210	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	91772	22.799	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	87191	23.096	ug/l	98
85) n-Butylbenzene	14.058	91	135810	23.958	ug/l	99
86) Hexachloroethane	14.335	117	36890	25.034	ug/l	93
87) 1,2-Dichlorobenzene	14.111	146	92592	23.309	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	11501	17.926	ug/l	85
89) 1,2,4-Trichlorobenzene	15.847	180	28680	16.872	ug/l	98
90) Hexachlorobutadiene	15.505	225	20120	19.486	ug/l	97
91) Naphthalene	15.647	128	64894	14.609	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	28680	16.872	ug/l	98

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

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