

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112423\
 Data File : VN080256.D
 Acq On : 24 Nov 2023 12:20
 Operator : JC\MD
 Sample : VN1124WBSD02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1124WBSD02

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/27/2023
 Supervised By :Mahesh Dadoda 11/27/2023

Quant Time: Nov 27 04:05:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N110823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Nov 09 04:02:05 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	49425	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.106	114	274075	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	249067	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	137649	33.178	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 110.600%#			
60) 4-Bromofluorobenzene	12.847	95	128514	32.266	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 107.567%			
63) Toluene-d8	10.571	98	353497	29.954	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.833%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	82915	25.729	ug/l	97
3) Chloromethane	2.359	50	58011	14.289	ug/l	95
4) Vinyl Chloride	2.512	62	65675	19.359	ug/l	93
5) Bromomethane	2.953	94	43698	23.525	ug/l	88
6) Chloroethane	3.118	64	43898	22.278	ug/l	99
7) Trichlorofluoromethane	3.500	101	143336	28.152	ug/l	96
8) Diethyl Ether	3.965	74	41512	22.712	ug/l	83
9) 1,1,2-Trichlorotrifluo...	4.371	101	66072	22.970	ug/l	92
10) 1,1-Dichloroethene	4.347	96	60907	23.935	ug/l	91
11) Methyl Iodide	4.589	142	80452	23.903	ug/l	91
12) Methyl Acetate	5.024	43	108668	16.471	ug/l #	82
13) Acrolein	4.183	56	53921	96.736	ug/l	97
14) Acrylonitrile	5.712	53	138005	88.069	ug/l	98
15) Acetone	4.424	58	44292	83.710	ug/l	94
16) Carbon Disulfide	4.712	76	167564	19.284	ug/l	100
17) Allyl chloride	5.030	41	73852	16.609	ug/l	88
18) Methylene Chloride	5.277	84	73037	21.403	ug/l #	81
19) trans-1,2-Dichloroethene	5.789	96	66228	20.997	ug/l	94
20) Diisopropyl ether	6.671	45	179004	17.227	ug/l #	93
21) 1,1-Dichloroethane	6.565	63	123536	19.917	ug/l	95
22) cis-1,2-Dichloroethene	7.488	96	76175	20.811	ug/l	96
23) tert-Butyl Alcohol	5.518	59	49623	117.322	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	225954	24.116	ug/l	98
25) Chloroform	7.971	83	144874	22.627	ug/l	99
26) Cyclohexane	8.259	56	86475	17.722	ug/l #	89
29) 1,1-Dichloropropene	8.371	75	98913	21.028	ug/l	100
30) 2-Butanone	7.483	43	172595	76.831	ug/l #	88
31) 2,2-Dichloropropane	7.488	77	127379	25.055	ug/l	96
32) 1,1,1-Trichloroethane	8.171	97	139964	26.064	ug/l	97
33) Carbon Tetrachloride	8.365	117	128134	27.148	ug/l	95
34) Benzene	8.606	78	280052	20.042	ug/l	98
35) Methacrylonitrile	7.788	41	39543	16.790	ug/l	96
36) 1,2-Dichloroethane	8.671	62	118679	23.468	ug/l	98
37) Trichloroethene	9.353	130	73541	21.885	ug/l	97
38) Methylcyclohexane	9.600	83	91297	20.671	ug/l	95
39) 1,2-Dichloropropane	9.624	63	66614	18.011	ug/l	95
40) Dibromomethane	9.712	93	51550	21.563	ug/l	93
41) Bromodichloromethane	9.888	83	113634	22.950	ug/l	100
42) Vinyl Acetate	6.606	43	566733m	101.567	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	74075m	17.553	ug/l	
44) Isopropyl Acetate	8.688	43	118231	17.194	ug/l #	88
45) 1,4-Dioxane	9.694	88	24076	454.340	ug/l	95
46) Methyl methacrylate	9.682	41	56436	17.074	ug/l	89
47) n-amyl Acetate	12.494	43	95257	17.246	ug/l	91
48) t-1,3-Dichloropropene	10.835	75	117471	23.231	ug/l	98
49) cis-1,3-Dichloropropene	10.318	75	122028	21.829	ug/l #	87
50) 1,1,2-Trichloroethane	11.018	97	70646	21.663	ug/l	93
51) Ethyl methacrylate	10.876	69	99869	21.306	ug/l	88
52) 1,3-Dichloropropane	11.165	76	120564	20.679	ug/l	99
53) Dibromochloromethane	11.359	129	84354	24.179	ug/l	99
54) 1,2-Dibromoethane	11.471	107	70511	21.533	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	236233	109.578	ug/l #	95
56) Bromoform	12.576	173	59796	26.156	ug/l	97
58) 4-Methyl-2-Pentanone	10.447	43	356837	85.756	ug/l #	87
59) 2-Hexanone	11.194	43	268158	84.598	ug/l #	89
61) Tetrachloroethene	11.106	164	76432	26.175	ug/l	96
62) Toluene	10.629	91	312523	21.695	ug/l	97
64) Chlorobenzene	11.894	112	189672	22.064	ug/l	89
65) 1,1,1,2-Tetrachloroethane	11.959	131	79863	25.326	ug/l	94
66) Ethyl Benzene	11.965	91	346390	22.883	ug/l	100
67) m/p-Xylenes	12.070	106	258888	45.937	ug/l	90
68) o-Xylene	12.400	106	126412	23.402	ug/l	95
69) Styrene	12.412	104	212763	23.793	ug/l	95
70) Isopropylbenzene	12.700	105	323069	23.977	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	88831	19.356	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	88396m	20.730	ug/l	
73) Bromobenzene	12.982	156	81422	24.580	ug/l	92
74) n-propylbenzene	13.035	91	367692	22.811	ug/l	97
75) 2-Chlorotoluene	13.129	91	237650	23.195	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	282781	25.374	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	30659	21.958	ug/l	98
78) 4-Chlorotoluene	13.223	91	238700	23.458	ug/l	97
79) tert-butylbenzene	13.441	119	222487	25.491	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	281305	25.741	ug/l	97
81) sec-Butylbenzene	13.617	105	297398	24.139	ug/l	98
82) p-Isopropyltoluene	13.729	119	258514	25.837	ug/l	96
83) 1,3-Dichlorobenzene	13.735	146	142315	23.577	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	137655	23.235	ug/l	96
85) n-Butylbenzene	14.059	91	207769	24.828	ug/l	97
86) Hexachloroethane	14.335	117	47203	24.261	ug/l	84
87) 1,2-Dichlorobenzene	14.106	146	137540	23.851	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.723	75	20278	24.162	ug/l	98
89) 1,2,4-Trichlorobenzene	15.841	180	66699	24.967	ug/l	93
90) Hexachlorobutadiene	15.506	225	43748	33.228	ug/l	99
91) Naphthalene	15.641	128	195157	22.763	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	66699	24.967	ug/l	93

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

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