

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041124\
 Data File : VN081695.D
 Acq On : 11 Apr 2024 13:38
 Operator : JC\MD
 Sample : VN0411WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0411WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/12/2024
 Supervised By : Mahesh Dadoda 04/12/2024

Quant Time: Apr 12 06:00:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:25:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.806	128	22577	30.000	ug/l	-0.02
28) 1,4-Difluorobenzene	9.106	114	160558	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	210132	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	90305	32.559	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.533%			
60) 4-Bromofluorobenzene	12.853	95	125031	30.264	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.867%			
63) Toluene-d8	10.571	98	258540	30.673	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.233%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	67723	21.468	ug/l	93
3) Chloromethane	2.359	50	73805	26.966	ug/l	95
4) Vinyl Chloride	2.512	62	73964	26.281	ug/l	96
5) Bromomethane	2.959	94	47309	19.848	ug/l	94
6) Chloroethane	3.118	64	63539	28.845	ug/l	97
7) Trichlorofluoromethane	3.501	101	116045	25.115	ug/l	97
8) Diethyl Ether	3.965	74	34721	20.147	ug/l	58
9) 1,1,2-Trichlorotrifluo...	4.377	101	68575	21.632	ug/l	96
10) 1,1-Dichloroethene	4.342	96	59875	20.595	ug/l	97
11) Methyl Iodide	4.589	142	66819	20.295	ug/l	95
12) Methyl Acetate	5.030	43	65650	24.592	ug/l #	77
13) Acrolein	4.183	56	42503	120.887	ug/l	99
14) Acrylonitrile	5.724	53	155923	117.336	ug/l	98
15) Acetone	4.442	58	35179m	120.366	ug/l	
16) Carbon Disulfide	4.712	76	170749	20.654	ug/l #	93
17) Allyl chloride	5.018	41	78203m	22.236	ug/l	
18) Methylene Chloride	5.283	84	71678	21.411	ug/l	92
19) trans-1,2-Dichloroethene	5.794	96	67003	21.016	ug/l	85
20) Diisopropyl ether	6.671	45	189744	22.661	ug/l	97
21) 1,1-Dichloroethane	6.571	63	123025	22.037	ug/l	97
22) cis-1,2-Dichloroethene	7.489	96	79771	20.720	ug/l	99
23) tert-Butyl Alcohol	5.524	59	60094	127.390	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	206811	22.745	ug/l	94
25) Chloroform	7.965	83	142367	22.413	ug/l	100
26) Cyclohexane	8.253	56	89569	20.014	ug/l #	85
29) 1,1-Dichloropropene	8.371	75	89973	21.315	ug/l	99
30) 2-Butanone	7.483	43	197823	122.714	ug/l	100
31) 2,2-Dichloropropane	7.494	77	113830	21.650	ug/l #	88
32) 1,1,1-Trichloroethane	8.171	97	125269	21.533	ug/l	99
33) Carbon Tetrachloride	8.365	117	108749	20.623	ug/l #	91
34) Benzene	8.606	78	289347	21.279	ug/l	99
35) Methacrylonitrile	7.783	41	43426	23.783	ug/l	83
36) 1,2-Dichloroethane	8.671	62	103211	23.141	ug/l	98
37) Trichloroethene	9.353	130	75539	20.993	ug/l	97
38) Methylcyclohexane	9.606	83	100716	19.521	ug/l	97
39) 1,2-Dichloropropane	9.624	63	68592	21.622	ug/l	100
40) Dibromomethane	9.706	93	56614	22.404	ug/l	96
41) Bromodichloromethane	9.888	83	112441	21.821	ug/l	96
42) Vinyl Acetate	6.606	43	748124	111.401	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	86157	24.250	ug/l	99
44) Isopropyl Acetate	8.688	43	137259	23.057	ug/l	97
45) 1,4-Dioxane	9.694	88	31862	484.854	ug/l #	84
46) Methyl methacrylate	9.682	41	60665	22.661	ug/l	85
47) n-amyl Acetate	12.494	43	115629	21.646	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	105804	21.552	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	113277	21.426	ug/l	92
50) 1,1,2-Trichloroethane	11.018	97	75550	22.328	ug/l	98
51) Ethyl methacrylate	10.877	69	103408	21.949	ug/l	96
52) 1,3-Dichloropropane	11.165	76	122301	22.052	ug/l	99
53) Dibromochloromethane	11.359	129	89358	22.108	ug/l	98
54) 1,2-Dibromoethane	11.471	107	78106	22.332	ug/l	97
55) 2-Chloroethyl vinyl ether	10.159	63	270956	117.116	ug/l	97
56) Bromoform	12.582	173	57135	22.107	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	446576	123.580	ug/l	94
59) 2-Hexanone	11.194	43	338196	124.617	ug/l	92
61) Tetrachloroethene	11.106	164	82189	21.108	ug/l	93
62) Toluene	10.635	91	322618	21.103	ug/l	98
64) Chlorobenzene	11.894	112	204066	21.051	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.965	131	73633	20.911	ug/l	95
66) Ethyl Benzene	11.965	91	336461	20.700	ug/l	99
67) m/p-Xylenes	12.076	106	273309	42.450	ug/l	94
68) o-Xylene	12.400	106	124644	20.393	ug/l	97
69) Styrene	12.412	104	217436	20.889	ug/l	96
70) Isopropylbenzene	12.700	105	326624	20.714	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.941	83	98264	23.856	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	83216m	21.822	ug/l	
73) Bromobenzene	12.982	156	80550	20.616	ug/l	99
74) n-propylbenzene	13.041	91	391611	20.748	ug/l	99
75) 2-Chlorotoluene	13.129	91	234462	20.851	ug/l	94
76) 1,3,5-Trimethylbenzene	13.176	105	281377	21.024	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	37056	23.464	ug/l	80
78) 4-Chlorotoluene	13.223	91	242947	21.783	ug/l	96
79) tert-butylbenzene	13.441	119	231596	20.340	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	291691	21.854	ug/l	99
81) sec-Butylbenzene	13.618	105	334672	20.381	ug/l	98
82) p-Isopropyltoluene	13.735	119	280982	20.403	ug/l	97
83) 1,3-Dichlorobenzene	13.735	146	166078	22.744	ug/l	96
84) 1,4-Dichlorobenzene	13.812	146	156069	22.080	ug/l	97
85) n-Butylbenzene	14.059	91	234132	20.184	ug/l	98
86) Hexachloroethane	14.335	117	59238	22.516	ug/l	83
87) 1,2-Dichlorobenzene	14.112	146	158218	22.763	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	23067	25.689	ug/l	95
89) 1,2,4-Trichlorobenzene	15.841	180	82778	21.728	ug/l	99
90) Hexachlorobutadiene	15.500	225	33414	21.887	ug/l	99
91) Naphthalene	15.647	128	261541	21.354	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	82778	21.728	ug/l	99

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

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