

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020924\
 Data File : VN080988.D
 Acq On : 09 Feb 2024 14:36
 Operator : JC\MD
 Sample : P1187-07 2.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2024

Quant Time: Feb 10 03:14:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 10 01:55:02 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/12/2024
 Supervised By :Mahesh Dadoda 02/12/2024

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

Internal Standards						
1) Bromochloromethane	7.812	128	92668	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	535937	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	467728	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	218739	31.414	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.700%			
60) 4-Bromofluorobenzene	12.853	95	206301	28.851	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.167%			
63) Toluene-d8	10.571	98	652383	31.081	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.600%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	15587	2.474	ug/l	93
3) Chloromethane	2.359	50	20770	3.280	ug/l	97
4) Vinyl Chloride	2.512	62	20532	2.720	ug/l	99
5) Bromomethane	2.959	94	14840	2.927	ug/l	91
6) Chloroethane	3.124	64	13766	2.797	ug/l	95
7) Trichlorofluoromethane	3.495	101	26424	2.658	ug/l	84
8) Diethyl Ether	3.959	74	8844	2.531	ug/l	75
9) 1,1,2-Trichlorotrifluo...	4.371	101	16169	2.997	ug/l	73
10) 1,1-Dichloroethene	4.336	96	13507	2.554	ug/l	88
11) Methyl Iodide	4.600	142	13193m	2.329	ug/l	
12) Methyl Acetate	5.036	43	14723	3.072	ug/l #	77
13) Acrolein	4.183	56	13518	12.935	ug/l	99
14) Acrylonitrile	5.724	53	31527	13.249	ug/l	66
15) Acetone	4.442	58	8412m	15.367	ug/l	
16) Carbon Disulfide	4.718	76	36781	2.534	ug/l #	80
17) Allyl chloride	5.018	41	18218	2.743	ug/l	89
18) Methylene Chloride	5.283	84	17185m	2.844	ug/l	
19) trans-1,2-Dichloroethene	5.794	96	15155	2.524	ug/l #	75
20) Diisopropyl ether	6.671	45	41205	2.581	ug/l #	88
21) 1,1-Dichloroethane	6.565	63	27478	2.686	ug/l #	91
22) cis-1,2-Dichloroethene	7.477	96	18386m	2.636	ug/l	
23) tert-Butyl Alcohol	5.518	59	11573m	13.350	ug/l	
24) Methyl tert-Butyl Ether	5.794	73	46018	2.625	ug/l #	87
25) Chloroform	7.971	83	30868	2.720	ug/l	90
26) Cyclohexane	8.259	56	20875	2.710	ug/l #	86
29) 1,1-Dichloropropene	8.371	75	21175	2.652	ug/l	96
30) 2-Butanone	7.494	43	42811	14.616	ug/l #	96
31) 2,2-Dichloropropane	7.494	77	24173	2.660	ug/l #	80
32) 1,1,1-Trichloroethane	8.171	97	28291	2.817	ug/l	100
33) Carbon Tetrachloride	8.359	117	20664	2.442	ug/l	91
34) Benzene	8.612	78	67628	2.772	ug/l #	84
35) Methacrylonitrile	7.788	41	9465m	2.749	ug/l	
36) 1,2-Dichloroethane	8.671	62	23388	2.857	ug/l	99
37) Trichloroethene	9.359	130	16996	2.620	ug/l	90
38) Methylcyclohexane	9.600	83	20690	2.597	ug/l	95
39) 1,2-Dichloropropane	9.629	63	16860	2.914	ug/l	100
40) Dibromomethane	9.712	93	11952	2.715	ug/l	94
41) Bromodichloromethane	9.888	83	22977	2.667	ug/l	97
42) Vinyl Acetate	6.606	43	154134	12.303	ug/l #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	15660	2.567	ug/l #	92
44) Isopropyl Acetate	8.694	43	29778	2.717	ug/l #	64
45) 1,4-Dioxane	9.706	88	5924	56.984	ug/l #	88
46) Methyl methacrylate	9.682	41	12508	2.494	ug/l	90
47) n-amyl Acetate	12.500	43	22199	2.322	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	24053	2.664	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	24032	2.456	ug/l	93
50) 1,1,2-Trichloroethane	11.018	97	21077	3.460	ug/l	89
51) Ethyl methacrylate	10.876	69	22632	2.658	ug/l	90
52) 1,3-Dichloropropane	11.165	76	27472	2.731	ug/l	100
53) Dibromochloromethane	11.359	129	15959	2.404	ug/l	96
54) 1,2-Dibromoethane	11.476	107	15952	2.531	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	54703	12.538	ug/l	97
56) Bromoform	12.576	173	8970	2.121	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	85388	14.062	ug/l	93
59) 2-Hexanone	11.200	43	59007	13.212	ug/l	97
61) Tetrachloroethene	11.106	164	18883	3.534	ug/l #	85
62) Toluene	10.635	91	75346	2.941	ug/l	98
64) Chlorobenzene	11.900	112	43245	2.756	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	16040	2.756	ug/l	95
66) Ethyl Benzene	11.970	91	68552	2.545	ug/l	94
67) m/p-Xylenes	12.070	106	52167	4.931	ug/l	98
68) o-Xylene	12.400	106	26162	2.523	ug/l	95
69) Styrene	12.417	104	40357	2.364	ug/l	97
70) Isopropylbenzene	12.700	105	60887	2.410	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.941	83	22394	2.874	ug/l #	97
72) 1,2,3-Trichloropropane	12.994	75	16144m	2.647	ug/l	
73) Bromobenzene	12.982	156	16663	2.652	ug/l	97
74) n-propylbenzene	13.041	91	69843	2.432	ug/l	98
75) 2-Chlorotoluene	13.129	91	44877	2.517	ug/l	97
76) 1,3,5-Trimethylbenzene	13.176	105	49445	2.392	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	4869	2.110	ug/l	87
78) 4-Chlorotoluene	13.223	91	43924	2.460	ug/l	91
79) tert-butylbenzene	13.441	119	41197	2.401	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	47595	2.311	ug/l	97
81) sec-Butylbenzene	13.617	105	54074	2.250	ug/l	94
82) p-Isopropyltoluene	13.735	119	44604	2.211	ug/l	95
83) 1,3-Dichlorobenzene	13.735	146	26896	2.380	ug/l	96
84) 1,4-Dichlorobenzene	13.817	146	27781	2.449	ug/l	97
85) n-Butylbenzene	14.059	91	38113	2.289	ug/l	96
86) Hexachloroethane	14.335	117	7028	2.208	ug/l	86
87) 1,2-Dichlorobenzene	14.106	146	27737	2.521	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.723	75	3385	2.407	ug/l	90
89) 1,2,4-Trichlorobenzene	15.847	180	12595	2.340	ug/l	95
90) Hexachlorobutadiene	15.506	225	6261	2.651	ug/l	96
91) Naphthalene	15.647	128	42401	2.219	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	12595	2.340	ug/l	95

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

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