

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084341.D
 Acq On : 08 Oct 2024 11:19
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2024
 Supervised By : Mahesh Dadoda 10/09/2024

Quant Time: Oct 09 02:09:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:04:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	33135	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	182092	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	168912	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80437	30.153	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.500%			
60) 4-Bromofluorobenzene	12.847	95	78531	28.170	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.900%			
63) Toluene-d8	10.565	98	237159	30.307	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.033%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	10592	5.236	ug/l	94
3) Chloromethane	2.359	50	11862	5.153	ug/l	93
4) Vinyl Chloride	2.512	62	11670	5.169	ug/l	90
5) Bromomethane	2.953	94	9027	6.035	ug/l	96
6) Chloroethane	3.118	64	8876	5.997	ug/l	92
7) Trichlorofluoromethane	3.500	101	19359	5.264	ug/l	91
8) Diethyl Ether	3.959	74	6806m	5.034	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.377	101	10938	5.290	ug/l	70
10) 1,1-Dichloroethene	4.342	96	10884	5.275	ug/l	97
11) Methyl Iodide	4.595	142	13135	4.845	ug/l	98
12) Methyl Acetate	5.030	43	12264	4.748	ug/l	97
13) Acrolein	4.183	56	12398	25.840	ug/l	93
14) Acrylonitrile	5.730	53	28276m	24.367	ug/l	
15) Acetone	4.436	58	7318	22.077	ug/l	94
16) Carbon Disulfide	4.706	76	33723	5.489	ug/l	98
17) Allyl chloride	5.030	41	16359	4.891	ug/l	97
18) Methylene Chloride	5.277	84	12168m	5.235	ug/l	
19) trans-1,2-Dichloroethene	5.783	96	11347	5.197	ug/l	86
20) Diisopropyl ether	6.677	45	34552	4.805	ug/l #	93
21) 1,1-Dichloroethane	6.571	63	21583	5.231	ug/l	93
22) cis-1,2-Dichloroethene	7.483	96	12611	4.963	ug/l	96
23) tert-Butyl Alcohol	5.524	59	11110	24.960	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	33238	4.821	ug/l #	91
25) Chloroform	7.971	83	21052	5.038	ug/l	92
26) Cyclohexane	8.259	56	16244	4.707	ug/l #	96
29) 1,1-Dichloropropene	8.371	75	14635	4.896	ug/l	99
30) 2-Butanone	7.488	43	36686	23.051	ug/l #	98
31) 2,2-Dichloropropane	7.494	77	16984	4.835	ug/l #	78
32) 1,1,1-Trichloroethane	8.159	97	18852m	4.934	ug/l	
33) Carbon Tetrachloride	8.365	117	16613	5.019	ug/l	91
34) Benzene	8.600	78	47206	5.045	ug/l #	80
35) Methacrylonitrile	7.771	41	7020m	4.135	ug/l	
36) 1,2-Dichloroethane	8.671	62	15630	5.011	ug/l	100
37) Trichloroethene	9.353	130	10715	4.973	ug/l	96
38) Methylcyclohexane	9.600	83	14911	4.541	ug/l	92
39) 1,2-Dichloropropane	9.618	63	11390	4.992	ug/l	90
40) Dibromomethane	9.706	93	8154	5.113	ug/l	98
41) Bromodichloromethane	9.882	83	16959	5.009	ug/l	93
42) Vinyl Acetate	6.606	43	127008	22.946	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	15009m	4.782	ug/l	
44) Isopropyl Acetate	8.694	43	23240	4.524	ug/l	100
45) 1,4-Dioxane	9.694	88	4149	89.589	ug/l	97
46) Methyl methacrylate	9.682	41	11210	4.516	ug/l	88
47) n-amyl Acetate	12.494	43	19132	4.187	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	17119	4.893	ug/l	92
49) cis-1,3-Dichloropropene	10.312	75	16720	4.560	ug/l #	86
50) 1,1,2-Trichloroethane	11.018	97	10856	5.065	ug/l	92
51) Ethyl methacrylate	10.871	69	14547	4.109	ug/l	90
52) 1,3-Dichloropropane	11.165	76	18781	5.011	ug/l	98
53) Dibromochloromethane	11.353	129	12356	4.880	ug/l	99
54) 1,2-Dibromoethane	11.471	107	10689	4.844	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	33972	21.155	ug/l	97
56) Bromoform	12.576	173	7936	4.725	ug/l #	92
58) 4-Methyl-2-Pentanone	10.447	43	72827	23.145	ug/l	97
59) 2-Hexanone	11.194	43	51606	22.071	ug/l	97
61) Tetrachloroethene	11.100	164	10061	5.266	ug/l	93
62) Toluene	10.629	91	49743	5.030	ug/l	97
64) Chlorobenzene	11.888	112	31991	5.199	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	10606	4.961	ug/l	98
66) Ethyl Benzene	11.965	91	48285	4.494	ug/l	99
67) m/p-Xylenes	12.070	106	36802	9.030	ug/l	99
68) o-Xylene	12.400	106	18036	4.591	ug/l	94
69) Styrene	12.412	104	29815	4.421	ug/l	97
70) Isopropylbenzene	12.694	105	44677	4.455	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	15289	4.928	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	12720m	4.794	ug/l	
73) Bromobenzene	12.982	156	11720	4.826	ug/l	97
74) n-propylbenzene	13.035	91	52955	4.431	ug/l	98
75) 2-Chlorotoluene	13.123	91	34704	4.673	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	37234	4.410	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	4820	4.245	ug/l	83
78) 4-Chlorotoluene	13.217	91	35132	4.653	ug/l	97
79) tert-butylbenzene	13.435	119	31579	4.384	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	37927	4.427	ug/l	95
81) sec-Butylbenzene	13.612	105	42859	4.321	ug/l	99
82) p-Isopropyltoluene	13.729	119	36191	4.335	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	21112	4.675	ug/l	95
84) 1,4-Dichlorobenzene	13.812	146	22118	4.932	ug/l	97
85) n-Butylbenzene	14.053	91	29988	4.148	ug/l	98
86) Hexachloroethane	14.335	117	7779	4.837	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	21047	4.820	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	2761	4.352	ug/l	94
89) 1,2,4-Trichlorobenzene	15.841	180	10483	4.618	ug/l	99
90) Hexachlorobutadiene	15.500	225	6201	5.904	ug/l	98
91) Naphthalene	15.641	128	30757	3.998	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	10483	4.618	ug/l	99

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

