

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082824\
 Data File : VN083528.D
 Acq On : 28 Aug 2024 10:07
 Operator : JC\MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/28/2024
 Supervised By : Mahesh Dadoda 08/29/2024

Quant Time: Aug 28 12:20:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N082824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 28 12:16:54 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	31575	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	185516	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	159784	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	85337	30.069	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.233%			
60) 4-Bromofluorobenzene	12.847	95	81257	28.725	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.733%			
63) Toluene-d8	10.565	98	226816	30.748	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.500%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.118	85	9934	4.685	ug/l	95
3) Chloromethane	2.359	50	11718	5.374	ug/l	100
4) Vinyl Chloride	2.512	62	11901	5.198	ug/l	98
5) Bromomethane	2.901	94	6492	5.821	ug/l	93
6) Chloroethane	3.065	64	8249	5.500	ug/l	91
7) Trichlorofluoromethane	3.465	101	19558	5.169	ug/l	98
8) Diethyl Ether	3.953	74	6689	5.032	ug/l	79
9) 1,1,2-Trichlorotrifluo...	4.348	101	10640m	5.089	ug/l	
10) 1,1-Dichloroethene	4.324	96	10328	5.218	ug/l	87
11) Methyl Iodide	4.577	142	13496	4.954	ug/l	89
12) Methyl Acetate	5.030	43	17128	5.041	ug/l	89
13) Acrolein	4.177	56	9519	29.050	ug/l	92
14) Acrylonitrile	5.724	53	26147	24.784	ug/l	97
15) Acetone	4.436	58	6675	21.384	ug/l	78
16) Carbon Disulfide	4.700	76	29429	5.518	ug/l	100
17) Allyl chloride	5.012	41	19106	5.228	ug/l	89
18) Methylene Chloride	5.259	84	11504m	5.240	ug/l	
19) trans-1,2-Dichloroethene	5.777	96	10685	5.237	ug/l	95
20) Diisopropyl ether	6.671	45	35025	4.928	ug/l #	98
21) 1,1-Dichloroethane	6.559	63	20092	5.007	ug/l	95
22) cis-1,2-Dichloroethene	7.489	96	12836	5.085	ug/l	88
23) tert-Butyl Alcohol	5.536	59	11473	25.775	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	36470	4.975	ug/l #	85
25) Chloroform	7.965	83	21432	5.038	ug/l	99
26) Cyclohexane	8.253	56	17362	4.977	ug/l #	88
29) 1,1-Dichloropropene	8.371	75	14970	5.144	ug/l	95
30) 2-Butanone	7.483	43	37583	25.171	ug/l	95
31) 2,2-Dichloropropane	7.483	77	18157	4.811	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	19009	4.887	ug/l	93
33) Carbon Tetrachloride	8.353	117	16982	5.014	ug/l	83
34) Benzene	8.606	78	45188	5.117	ug/l #	90
35) Methacrylonitrile	7.777	41	8922	5.164	ug/l	90
36) 1,2-Dichloroethane	8.671	62	16826	5.110	ug/l #	93
37) Trichloroethene	9.353	130	11168	5.336	ug/l	98
38) Methylcyclohexane	9.600	83	17236	4.829	ug/l	96
39) 1,2-Dichloropropane	9.624	63	10885	5.069	ug/l	94
40) Dibromomethane	9.706	93	7903	5.127	ug/l	95
41) Bromodichloromethane	9.888	83	16117	4.838	ug/l	97
42) Vinyl Acetate	6.600	43	185748	25.350	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	14780	5.154	ug/l	99
44) Isopropyl Acetate	8.688	43	50998	7.527	ug/l #	69
45) 1,4-Dioxane	9.700	88	4936	112.350	ug/l #	1
46) Methyl methacrylate	9.682	41	12566	5.019	ug/l	78
47) n-amyl Acetate	12.494	43	22589	4.845	ug/l	89
48) t-1,3-Dichloropropene	10.835	75	17649	4.996	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	18638	5.061	ug/l #	78
50) 1,1,2-Trichloroethane	11.018	97	10611	5.137	ug/l	95
51) Ethyl methacrylate	10.877	69	18016	5.001	ug/l	92
52) 1,3-Dichloropropane	11.159	76	18197	5.045	ug/l	100
53) Dibromochloromethane	11.359	129	11642	4.811	ug/l	97
54) 1,2-Dibromoethane	11.465	107	10727	5.068	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	39617	25.831	ug/l	98
56) Bromoform	12.576	173	7488	4.739	ug/l #	93
58) 4-Methyl-2-Pentanone	10.441	43	72917	25.731	ug/l #	89
59) 2-Hexanone	11.194	43	54630	25.137	ug/l	89
61) Tetrachloroethene	11.106	164	9124	5.377	ug/l	95
62) Toluene	10.629	91	49130	5.316	ug/l	97
64) Chlorobenzene	11.894	112	30090	5.255	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	10700	5.250	ug/l	98
66) Ethyl Benzene	11.965	91	52145	5.001	ug/l	95
67) m/p-Xylenes	12.071	106	38461	9.952	ug/l	92
68) o-Xylene	12.400	106	18986	5.003	ug/l	96
69) Styrene	12.412	104	32600	5.045	ug/l	100
70) Isopropylbenzene	12.694	105	49127	4.901	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.935	83	15196	5.190	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	14034m	5.563	ug/l	
73) Bromobenzene	12.976	156	11884	5.238	ug/l	94
74) n-propylbenzene	13.035	91	56901	4.899	ug/l	99
75) 2-Chlorotoluene	13.123	91	39346	5.293	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	40865	4.883	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	5067	4.618	ug/l	95
78) 4-Chlorotoluene	13.223	91	39283	5.324	ug/l	99
79) tert-butylbenzene	13.435	119	37889	5.055	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	42839	5.022	ug/l	99
81) sec-Butylbenzene	13.618	105	48337	4.791	ug/l	99
82) p-Isopropyltoluene	13.729	119	40658	4.760	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	23679	5.343	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	24059	5.405	ug/l	99
85) n-Butylbenzene	14.053	91	36823	4.864	ug/l	99
86) Hexachloroethane	14.335	117	8086	4.833	ug/l	86
87) 1,2-Dichlorobenzene	14.106	146	22193	5.087	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	3165	4.727	ug/l	99
89) 1,2,4-Trichlorobenzene	15.841	180	12264	5.128	ug/l	99
90) Hexachlorobutadiene	15.506	225	5174	5.091	ug/l	99
91) Naphthalene	15.641	128	41332	5.000	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	12264	5.128	ug/l	99

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

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