

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
 Data File : VN084867.D
 Acq On : 15 Nov 2024 13:49
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/17/2024
 Supervised By : Mahesh Dadoda 11/18/2024

Quant Time: Nov 15 22:22:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	29205	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	143711	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	129619	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	70731	30.125	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 100.433%		
60) 4-Bromofluorobenzene	12.847	95	67980	30.459	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 101.533%		
63) Toluene-d8	10.565	98	186361	30.371	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 101.233%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.118	85	30924	18.205	ug/l	97
3) Chloromethane	2.359	50	40318	19.714	ug/l	95
4) Vinyl Chloride	2.512	62	39327	20.709	ug/l	96
5) Bromomethane	2.901	94	21252	22.048	ug/l	96
6) Chloroethane	3.071	64	25906	20.777	ug/l	93
7) Trichlorofluoromethane	3.459	101	58770	19.056	ug/l	96
8) Diethyl Ether	3.953	74	19904	18.093	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.359	101	30359	17.418	ug/l	95
10) 1,1-Dichloroethene	4.324	96	29493	17.328	ug/l	95
11) Methyl Iodide	4.577	142	45562	19.477	ug/l	86
12) Methyl Acetate	5.018	43	43060	16.231	ug/l	98
13) Acrolein	4.171	56	32698	99.945	ug/l	97
14) Acrylonitrile	5.718	53	81966	94.441	ug/l	99
15) Acetone	4.424	58	21488	96.356	ug/l	92
16) Carbon Disulfide	4.695	76	83450	16.663	ug/l #	94
17) Allyl chloride	5.012	41	44622	15.386	ug/l	99
18) Methylene Chloride	5.265	84	37063	18.583	ug/l	92
19) trans-1,2-Dichloroethene	5.783	96	31190	17.483	ug/l	95
20) Diisopropyl ether	6.665	45	105073	18.098	ug/l	94
21) 1,1-Dichloroethane	6.559	63	63631	18.225	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	37746	17.722	ug/l	97
23) tert-Butyl Alcohol	5.536	59	25733m	84.928	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	103968	18.889	ug/l	99
25) Chloroform	7.965	83	66394	18.560	ug/l	97
26) Cyclohexane	8.253	56	41700	15.636	ug/l #	96
29) 1,1-Dichloropropene	8.365	75	38880	17.962	ug/l	97
30) 2-Butanone	7.483	43	105293	105.453	ug/l	97
31) 2,2-Dichloropropane	7.489	77	51247	19.395	ug/l	98
32) 1,1,1-Trichloroethane	8.159	97	57719	19.627	ug/l	99
33) Carbon Tetrachloride	8.359	117	49987	19.920	ug/l	96
34) Benzene	8.600	78	139735	19.530	ug/l	99
35) Methacrylonitrile	7.777	41	23718	20.042	ug/l	95
36) 1,2-Dichloroethane	8.665	62	50527	21.236	ug/l	99
37) Trichloroethene	9.347	130	30042	18.613	ug/l	98
38) Methylcyclohexane	9.600	83	38328	16.448	ug/l	95
39) 1,2-Dichloropropane	9.618	63	34615	20.098	ug/l	95
40) Dibromomethane	9.706	93	25281	20.982	ug/l	96
41) Bromodichloromethane	9.888	83	51091	19.780	ug/l	100
42) Vinyl Acetate	6.600	43	353820	94.802	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	43215	20.598	ug/l	99
44) Isopropyl Acetate	8.683	43	76147	17.924	ug/l	96
45) 1,4-Dioxane	9.694	88	11581	408.313	ug/l	98
46) Methyl methacrylate	9.677	41	31598	18.508	ug/l	93
47) n-amyl Acetate	12.494	43	57999	18.279	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	47064	18.453	ug/l	93
49) cis-1,3-Dichloropropene	10.312	75	53099	19.425	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	33847	20.943	ug/l	93
51) Ethyl methacrylate	10.877	69	47007	18.869	ug/l	93
52) 1,3-Dichloropropane	11.159	76	57997	20.674	ug/l	99
53) Dibromochloromethane	11.359	129	39443	20.855	ug/l	98
54) 1,2-Dibromoethane	11.471	107	34374	21.029	ug/l	96
55) 2-Chloroethyl vinyl ether	10.159	63	129165	105.755	ug/l	98
56) Bromoform	12.576	173	26019	20.524	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	217184	106.208	ug/l	97
59) 2-Hexanone	11.194	43	157051	104.883	ug/l	99
61) Tetrachloroethene	11.100	164	26787	19.746	ug/l	95
62) Toluene	10.630	91	143824	19.481	ug/l	99
64) Chlorobenzene	11.888	112	88491	19.855	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	33876	20.682	ug/l	98
66) Ethyl Benzene	11.965	91	140773	18.144	ug/l	95
67) m/p-Xylenes	12.071	106	112700	37.941	ug/l	99
68) o-Xylene	12.394	106	54333	18.962	ug/l	95
69) Styrene	12.412	104	92272	19.206	ug/l	99
70) Isopropylbenzene	12.694	105	132744	18.649	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	50764	22.003	ug/l	95
72) 1,2,3-Trichloropropane	12.994	75	46309m	23.507	ug/l	
73) Bromobenzene	12.976	156	35881	19.545	ug/l	97
74) n-propylbenzene	13.035	91	154569	18.570	ug/l	100
75) 2-Chlorotoluene	13.123	91	100115	18.470	ug/l	96
76) 1,3,5-Trimethylbenzene	13.171	105	117170	19.266	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	15759	19.504	ug/l	92
78) 4-Chlorotoluene	13.218	91	100452	18.342	ug/l	99
79) tert-butylbenzene	13.435	119	93698	18.630	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	117990	19.231	ug/l	98
81) sec-Butylbenzene	13.618	105	126560	18.262	ug/l	98
82) p-Isopropyltoluene	13.729	119	106151	18.229	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	64615	19.031	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	62132	18.520	ug/l	99
85) n-Butylbenzene	14.053	91	79989	16.355	ug/l	97
86) Hexachloroethane	14.329	117	22330	18.750	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	64917	19.403	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.712	75	9097	20.435	ug/l	91
89) 1,2,4-Trichlorobenzene	15.835	180	29223	17.939	ug/l	91
90) Hexachlorobutadiene	15.500	225	14544	20.439	ug/l	99
91) Naphthalene	15.641	128	90833	17.460	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	29223	17.939	ug/l	91

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

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