

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101524\
 Data File : VN084412.D
 Acq On : 15 Oct 2024 13:15
 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 10/16/2024
 Supervised By : Mahesh Dadoda 10/16/2024

Quant Time: Oct 16 01:19:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	33634	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	175881	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	164602	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80105	29.583	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.600%	
60) 4-Bromofluorobenzene	12.847	95	85097	31.325	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	104.400%	
63) Toluene-d8	10.565	98	238715	31.305	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	104.367%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	41185	20.056	ug/l	94
3) Chloromethane	2.359	50	46369	19.843	ug/l	98
4) Vinyl Chloride	2.512	62	46014	20.079	ug/l	92
5) Bromomethane	2.959	94	27456	18.084	ug/l	95
6) Chloroethane	3.124	64	27995	18.634	ug/l	94
7) Trichlorofluoromethane	3.495	101	74638	19.995	ug/l	97
8) Diethyl Ether	3.959	74	25065	18.264	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	43762	20.851	ug/l	89
10) 1,1-Dichloroethene	4.342	96	40550	19.363	ug/l	94
11) Methyl Iodide	4.589	142	51455	18.696	ug/l	98
12) Methyl Acetate	5.024	43	54534	20.800	ug/l	97
13) Acrolein	4.177	56	54094	111.069	ug/l	99
14) Acrylonitrile	5.724	53	111099	94.321	ug/l	99
15) Acetone	4.430	58	39220	116.562	ug/l	100
16) Carbon Disulfide	4.712	76	114941	18.431	ug/l	99
17) Allyl chloride	5.024	41	62548	18.425	ug/l	90
18) Methylene Chloride	5.277	84	46918m	19.888	ug/l	
19) trans-1,2-Dichloroethene	5.789	96	43119	19.454	ug/l	89
20) Diisopropyl ether	6.665	45	141823	19.430	ug/l	95
21) 1,1-Dichloroethane	6.565	63	84744	20.234	ug/l	95
22) cis-1,2-Dichloroethene	7.488	96	50477	19.571	ug/l	98
23) tert-Butyl Alcohol	5.518	59	39227	86.822	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	133813	19.120	ug/l #	86
25) Chloroform	7.965	83	86449	20.380	ug/l	98
26) Cyclohexane	8.259	56	63895	18.241	ug/l #	94
29) 1,1-Dichloropropene	8.371	75	60125	20.824	ug/l	99
30) 2-Butanone	7.483	43	164229	106.835	ug/l	99
31) 2,2-Dichloropropane	7.488	77	74769	22.037	ug/l #	83
32) 1,1,1-Trichloroethane	8.171	97	79405	21.516	ug/l	99
33) Carbon Tetrachloride	8.359	117	67618	21.149	ug/l	96
34) Benzene	8.600	78	188288	20.833	ug/l	99
35) Methacrylonitrile	7.777	41	33025	20.138	ug/l	93
36) 1,2-Dichloroethane	8.671	62	63813	21.182	ug/l	99
37) Trichloroethene	9.353	130	42770	20.551	ug/l	95
38) Methylcyclohexane	9.600	83	60619	19.114	ug/l	95
39) 1,2-Dichloropropane	9.618	63	46930	21.294	ug/l	96
40) Dibromomethane	9.706	93	32493	21.095	ug/l	99
41) Bromodichloromethane	9.888	83	69624	21.292	ug/l	97
42) Vinyl Acetate	6.600	43	526695	98.516	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	59936	19.770	ug/l	98
44) Isopropyl Acetate	8.688	43	97785	19.706	ug/l	100
45) 1,4-Dioxane	9.694	88	18693	417.891	ug/l	96
46) Methyl methacrylate	9.676	41	46675	19.468	ug/l	94
47) n-amyl Acetate	12.494	43	85211	19.306	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	66349	19.635	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	74336	20.991	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	44095	21.298	ug/l	96
51) Ethyl methacrylate	10.871	69	64857	18.965	ug/l	97
52) 1,3-Dichloropropane	11.159	76	74091	20.466	ug/l	99
53) Dibromochloromethane	11.359	129	50229	20.537	ug/l	100
54) 1,2-Dibromoethane	11.465	107	43791	20.548	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	180488	116.364	ug/l	99
56) Bromoform	12.576	173	32481	20.024	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	308394	100.576	ug/l	100
59) 2-Hexanone	11.194	43	233695	102.566	ug/l	99
61) Tetrachloroethene	11.106	164	40381	21.688	ug/l	94
62) Toluene	10.629	91	202786	21.044	ug/l	98
64) Chlorobenzene	11.888	112	123348	20.570	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	44483	21.353	ug/l	100
66) Ethyl Benzene	11.965	91	210552	20.112	ug/l	99
67) m/p-Xylenes	12.070	106	168685	42.474	ug/l	98
68) o-Xylene	12.400	106	76980	20.109	ug/l	100
69) Styrene	12.412	104	132789	20.207	ug/l	99
70) Isopropylbenzene	12.694	105	198039	20.264	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	64601	21.368	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	53190m	20.543	ug/l	
73) Bromobenzene	12.976	156	49931	21.097	ug/l	96
74) n-propylbenzene	13.035	91	243774	20.932	ug/l	100
75) 2-Chlorotoluene	13.123	91	151941	20.996	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	176017	21.391	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	21304	19.255	ug/l	91
78) 4-Chlorotoluene	13.217	91	153953	20.925	ug/l	98
79) tert-butylbenzene	13.435	119	143336	20.418	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	175553	21.027	ug/l	99
81) sec-Butylbenzene	13.612	105	204423	21.151	ug/l	100
82) p-Isopropyltoluene	13.729	119	170016	20.900	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	94190	21.403	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	93182	21.323	ug/l	99
85) n-Butylbenzene	14.059	91	142154	20.176	ug/l	99
86) Hexachloroethane	14.329	117	32468	20.716	ug/l	100
87) 1,2-Dichlorobenzene	14.106	146	90818	21.344	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	12504	20.225	ug/l	99
89) 1,2,4-Trichlorobenzene	15.841	180	44350	20.047	ug/l	95
90) Hexachlorobutadiene	15.500	225	20943	20.463	ug/l	97
91) Naphthalene	15.641	128	130611	17.423	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	44350	20.047	ug/l	95

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

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