

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082824\
 Data File : VN083545.D
 Acq On : 28 Aug 2024 18:57
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

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

Quant Time: Aug 29 00:54:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N082824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 28 12:23:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	28725	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	170106	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	151374	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	78325	30.337	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.133%			
60) 4-Bromofluorobenzene	12.847	95	80312	29.968	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.900%			
63) Toluene-d8	10.565	98	209131	29.926	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.767%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	38653	20.036	ug/l	98
3) Chloromethane	2.359	50	40197	20.265	ug/l	98
4) Vinyl Chloride	2.512	62	40865	19.618	ug/l	98
5) Bromomethane	2.901	94	18246	17.982	ug/l	98
6) Chloroethane	3.059	64	27007	19.793	ug/l	99
7) Trichlorofluoromethane	3.459	101	68101	19.782	ug/l	97
8) Diethyl Ether	3.953	74	24002	19.848	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.359	101	36798m	19.346	ug/l	
10) 1,1-Dichloroethene	4.318	96	34352	19.077	ug/l	84
11) Methyl Iodide	4.571	142	41902	16.907	ug/l	95
12) Methyl Acetate	5.024	43	72792	23.551	ug/l #	83
13) Acrolein	4.183	56	26775	89.820	ug/l	98
14) Acrylonitrile	5.724	53	101865	106.134	ug/l	98
15) Acetone	4.430	58	24584	86.570	ug/l #	56
16) Carbon Disulfide	4.695	76	89779	18.504	ug/l	97
17) Allyl chloride	5.012	41	65922	19.827	ug/l	88
18) Methylene Chloride	5.265	84	40710	20.384	ug/l	93
19) trans-1,2-Dichloroethene	5.777	96	36108	19.453	ug/l	94
20) Diisopropyl ether	6.671	45	133150	20.593	ug/l	95
21) 1,1-Dichloroethane	6.565	63	74063	20.289	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	44426	19.347	ug/l	93
23) tert-Butyl Alcohol	5.547	59	46294	114.322	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	134945	20.234	ug/l #	84
25) Chloroform	7.965	83	77035	19.903	ug/l	95
26) Cyclohexane	8.253	56	62766	19.778	ug/l #	88
29) 1,1-Dichloropropene	8.365	75	52492	19.670	ug/l	98
30) 2-Butanone	7.483	43	138557	101.204	ug/l	95
31) 2,2-Dichloropropane	7.488	77	61491	17.770	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	73519	20.613	ug/l	98
33) Carbon Tetrachloride	8.359	117	60794	19.576	ug/l	95
34) Benzene	8.606	78	162708	20.092	ug/l	98
35) Methacrylonitrile	7.777	41	32377	20.438	ug/l	93
36) 1,2-Dichloroethane	8.671	62	61201	20.269	ug/l	95
37) Trichloroethene	9.347	130	38503	20.063	ug/l	94
38) Methylcyclohexane	9.600	83	61765	18.873	ug/l	95
39) 1,2-Dichloropropane	9.624	63	40118	20.376	ug/l	97
40) Dibromomethane	9.712	93	28630	20.257	ug/l	96
41) Bromodichloromethane	9.888	83	61215	20.041	ug/l	99
42) Vinyl Acetate	6.600	43	646497	96.223	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	56091	21.331	ug/l	95
44) Isopropyl Acetate	8.688	43	154006	24.790	ug/l #	74
45) 1,4-Dioxane	9.700	88	17630	437.635	ug/l #	95
46) Methyl methacrylate	9.682	41	50310	21.916	ug/l	83
47) n-amyl Acetate	12.494	43	88249	20.641	ug/l	93
48) t-1,3-Dichloropropene	10.835	75	61118	18.868	ug/l	93
49) cis-1,3-Dichloropropene	10.312	75	65590	19.425	ug/l #	78
50) 1,1,2-Trichloroethane	11.018	97	39326	20.762	ug/l	94
51) Ethyl methacrylate	10.877	69	66929	20.261	ug/l	78
52) 1,3-Dichloropropane	11.165	76	68282	20.645	ug/l	100
53) Dibromochloromethane	11.359	129	43825	19.749	ug/l	98
54) 1,2-Dibromoethane	11.471	107	39040	20.117	ug/l	97
55) 2-Chloroethyl vinyl ether	10.159	63	150395	106.942	ug/l	98
56) Bromoform	12.582	173	28741	19.838	ug/l	96
58) 4-Methyl-2-Pentanone	10.447	43	297559	110.835	ug/l #	90
59) 2-Hexanone	11.200	43	226846	110.179	ug/l	88
61) Tetrachloroethene	11.100	164	35850	22.300	ug/l	90
62) Toluene	10.629	91	173241	19.785	ug/l	100
64) Chlorobenzene	11.894	112	108269	19.959	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	38882	20.139	ug/l	98
66) Ethyl Benzene	11.965	91	193826	19.622	ug/l	99
67) m/p-Xylenes	12.071	106	143007	39.060	ug/l	96
68) o-Xylene	12.400	106	73315	20.392	ug/l	98
69) Styrene	12.412	104	119574	19.534	ug/l	98
70) Isopropylbenzene	12.694	105	189327	19.936	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	59212	21.345	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	45221m	18.879	ug/l	
73) Bromobenzene	12.982	156	43423	20.202	ug/l	95
74) n-propylbenzene	13.035	91	212712	19.332	ug/l	99
75) 2-Chlorotoluene	13.129	91	139384	19.793	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	160584	20.256	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	19719	18.971	ug/l	86
78) 4-Chlorotoluene	13.223	91	134543	19.246	ug/l	98
79) tert-butylbenzene	13.441	119	142735	20.103	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	161088	19.932	ug/l	98
81) sec-Butylbenzene	13.618	105	189093	19.783	ug/l	99
82) p-Isopropyltoluene	13.729	119	155958	19.273	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	77103	18.364	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	78887	18.707	ug/l	97
85) n-Butylbenzene	14.059	91	129879	18.110	ug/l	99
86) Hexachloroethane	14.335	117	30320	19.130	ug/l	88
87) 1,2-Dichlorobenzene	14.106	146	82577	19.980	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	13870	21.868	ug/l	92
89) 1,2,4-Trichlorobenzene	15.841	180	42393	18.709	ug/l	98
90) Hexachlorobutadiene	15.500	225	18161	18.864	ug/l	96
91) Naphthalene	15.641	128	160311	20.469	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	42393	18.709	ug/l	98

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

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