

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050724\
 Data File : VN082022.D
 Acq On : 07 May 2024 16:28
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/08/2024
 Supervised By : Mahesh Dadoda 05/08/2024

Quant Time: May 08 08:00:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 27 04:37:27 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	32004	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	196238	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	177244	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	85522	31.917	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.400%			
60) 4-Bromofluorobenzene	12.847	95	82921	28.111	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.700%			
63) Toluene-d8	10.565	98	251123	29.834	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.433%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	35115	19.329	ug/l	98
3) Chloromethane	2.359	50	41157	19.535	ug/l	95
4) Vinyl Chloride	2.518	62	42937	21.574	ug/l	91
5) Bromomethane	2.965	94	20337	19.582	ug/l	95
6) Chloroethane	3.130	64	25920	22.999	ug/l	95
7) Trichlorofluoromethane	3.501	101	54909	18.854	ug/l	96
8) Diethyl Ether	3.959	74	27366	19.411	ug/l	80
9) 1,1,2-Trichlorotrifluo...	4.365	101	38109	19.088	ug/l	85
10) 1,1-Dichloroethene	4.342	96	39043	19.989	ug/l	94
11) Methyl Iodide	4.589	142	31894	17.867	ug/l	79
12) Methyl Acetate	5.024	43	55881	22.848	ug/l #	79
13) Acrolein	4.177	56	38541	74.145	ug/l	95
14) Acrylonitrile	5.724	53	119979	107.484	ug/l	89
15) Acetone	4.424	58	28533	114.071	ug/l	89
16) Carbon Disulfide	4.712	76	97517	18.020	ug/l	96
17) Allyl chloride	5.024	41	71978	20.989	ug/l	83
18) Methylene Chloride	5.277	84	45481	20.464	ug/l #	79
19) trans-1,2-Dichloroethene	5.783	96	39891m	19.620	ug/l	
20) Diisopropyl ether	6.671	45	157415	20.747	ug/l	96
21) 1,1-Dichloroethane	6.571	63	86488	21.527	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	52086	21.023	ug/l	96
23) tert-Butyl Alcohol	5.512	59	44368	96.496	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	141285	20.063	ug/l #	90
25) Chloroform	7.965	83	79040	20.449	ug/l	93
26) Cyclohexane	8.259	56	68833	19.813	ug/l #	90
29) 1,1-Dichloropropene	8.371	75	57006	19.513	ug/l	98
30) 2-Butanone	7.483	43	155532	103.278	ug/l #	92
31) 2,2-Dichloropropane	7.494	77	72756	24.301	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	64537	19.207	ug/l #	91
33) Carbon Tetrachloride	8.365	117	51691	18.956	ug/l	98
34) Benzene	8.606	78	185586	19.912	ug/l	98
35) Methacrylonitrile	7.777	41	33817	17.749	ug/l	92
36) 1,2-Dichloroethane	8.671	62	60034	19.188	ug/l	97
37) Trichloroethene	9.353	130	37377	16.373	ug/l	87
38) Methylcyclohexane	9.600	83	71497	20.258	ug/l	94
39) 1,2-Dichloropropane	9.624	63	49983	20.900	ug/l	97
40) Dibromomethane	9.712	93	30269	19.702	ug/l	86
41) Bromodichloromethane	9.882	83	62791	19.122	ug/l	96
42) Vinyl Acetate	6.606	43	618220	96.448	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	64630	19.684	ug/l	100
44) Isopropyl Acetate	8.688	43	115283	19.777	ug/l	90
45) 1,4-Dioxane	9.694	88	18641	398.750	ug/l #	92
46) Methyl methacrylate	9.688	41	53827	20.212	ug/l	81
47) n-amyl Acetate	12.494	43	101825m	19.367	ug/l	
48) t-1,3-Dichloropropene	10.835	75	68404	19.209	ug/l	99
49) cis-1,3-Dichloropropene	10.312	75	76164	20.230	ug/l #	86
50) 1,1,2-Trichloroethane	11.018	97	41080	19.709	ug/l #	91
51) Ethyl methacrylate	10.877	69	74285	18.883	ug/l	75
52) 1,3-Dichloropropane	11.165	76	78220	20.426	ug/l	98
53) Dibromochloromethane	11.359	129	43354	19.117	ug/l	97
54) 1,2-Dibromoethane	11.471	107	40191	19.334	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	184451	93.765	ug/l	95
56) Bromoform	12.582	173	22839	16.547	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	341787m	99.312	ug/l	
59) 2-Hexanone	11.194	43	255362	100.075	ug/l #	87
61) Tetrachloroethene	11.106	164	32742	16.648	ug/l	93
62) Toluene	10.629	91	190289	19.081	ug/l	97
64) Chlorobenzene	11.894	112	116110	19.035	ug/l	92
65) 1,1,1,2-Tetrachloroethane	11.965	131	37337	18.702	ug/l	93
66) Ethyl Benzene	11.965	91	216240	19.781	ug/l	99
67) m/p-Xylenes	12.071	106	156500	38.614	ug/l	100
68) o-Xylene	12.400	106	74223	18.510	ug/l	97
69) Styrene	12.412	104	127231	18.901	ug/l	99
70) Isopropylbenzene	12.694	105	192018	18.855	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	58969	20.121	ug/l	97
72) 1,2,3-Trichloropropane	12.994	75	53458m	19.511	ug/l	
73) Bromobenzene	12.982	156	40499	18.577	ug/l	82
74) n-propylbenzene	13.035	91	242532	20.185	ug/l	98
75) 2-Chlorotoluene	13.129	91	141639	19.055	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	156427	18.976	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	23540	19.303	ug/l	84
78) 4-Chlorotoluene	13.223	91	138760	19.055	ug/l	100
79) tert-butylbenzene	13.441	119	131086	18.469	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	160995	19.443	ug/l	98
81) sec-Butylbenzene	13.617	105	196369	19.737	ug/l	97
82) p-Isopropyltoluene	13.729	119	154258	19.608	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	71836	18.300	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	73004	18.503	ug/l	99
85) n-Butylbenzene	14.059	91	147750	20.560	ug/l	97
86) Hexachloroethane	14.335	117	28697	18.294	ug/l	77
87) 1,2-Dichlorobenzene	14.106	146	73591	18.823	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	10976	16.690	ug/l	84
89) 1,2,4-Trichlorobenzene	15.841	180	37340	17.345	ug/l	96
90) Hexachlorobutadiene	15.500	225	13254	16.624	ug/l	99
91) Naphthalene	15.641	128	143381	17.521	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	37340	17.345	ug/l	96

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

