

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092223\
 Data File : VN079327.D
 Acq On : 22 Sep 2023 09:13
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/25/2023
 Supervised By : Mahesh Dadoda 09/25/2023

Quant Time: Sep 23 00:37:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	36554	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	188242	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	172777	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	89549	32.607	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.700%			
60) 4-Bromofluorobenzene	12.853	95	75488	29.652	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.833%			
63) Toluene-d8	10.571	98	255872	31.689	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 105.633%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	43052	21.117	ug/l	94
3) Chloromethane	2.365	50	54719	26.767	ug/l	92
4) Vinyl Chloride	2.518	62	62262	30.784	ug/l	93
5) Bromomethane	2.959	94	32630	26.286	ug/l	90
6) Chloroethane	3.124	64	44014	35.534	ug/l #	90
7) Trichlorofluoromethane	3.500	101	74947	31.126	ug/l	99
8) Diethyl Ether	3.959	74	24589	27.851	ug/l	87
9) 1,1,2-Trichlorotrifluo...	4.377	101	41747	31.461	ug/l	96
10) 1,1-Dichloroethene	4.342	96	37839	29.430	ug/l	100
11) Methyl Iodide	4.589	142	42009	25.939	ug/l	93
12) Methyl Acetate	5.030	43	88713	29.607	ug/l	100
13) Acrolein	4.183	56	39513	144.793	ug/l	98
14) Acrylonitrile	5.724	53	117297	133.436	ug/l	99
15) Acetone	4.436	58	46953	204.755	ug/l	78
16) Carbon Disulfide	4.718	76	107148	28.203	ug/l	98
17) Allyl chloride	5.024	41	58613	28.371	ug/l	91
18) Methylene Chloride	5.283	84	49667	28.801	ug/l	88
19) trans-1,2-Dichloroethene	5.794	96	44451	27.633	ug/l	96
20) Diisopropyl ether	6.683	45	149262	24.201	ug/l #	91
21) 1,1-Dichloroethane	6.577	63	88348	24.451	ug/l	97
22) cis-1,2-Dichloroethene	7.494	96	49930	19.847	ug/l	90
23) tert-Butyl Alcohol	5.530	59	35413	104.721	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	130951	25.807	ug/l	94
25) Chloroform	7.971	83	93793	21.527	ug/l	98
26) Cyclohexane	8.259	56	63748	19.456	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	65125	21.578	ug/l	96
30) 2-Butanone	7.494	43	173368	114.205	ug/l	96
31) 2,2-Dichloropropane	7.500	77	71155	23.636	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	78226	22.000	ug/l	94
33) Carbon Tetrachloride	8.371	117	68100	22.296	ug/l	93
34) Benzene	8.612	78	197640	20.611	ug/l #	95
35) Methacrylonitrile	7.788	41	33835	20.700	ug/l	92
36) 1,2-Dichloroethane	8.677	62	73129	23.124	ug/l	96
37) Trichloroethene	9.359	130	44437	19.606	ug/l	96
38) Methylcyclohexane	9.606	83	59599	19.753	ug/l	96
39) 1,2-Dichloropropane	9.629	63	53251	21.529	ug/l	99
40) Dibromomethane	9.718	93	35306	21.644	ug/l	92
41) Bromodichloromethane	9.888	83	72508	22.299	ug/l #	91
42) Vinyl Acetate	6.612	43	434712	120.580	ug/l	96

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QLast Update : Fri Sep 08 05:09:17 2023

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	62696	21.746	ug/l	99
44) Isopropyl Acetate	8.694	43	104961	20.238	ug/l	94
45) 1,4-Dioxane	9.700	88	17861	345.980	ug/l	97
46) Methyl methacrylate	9.688	41	46297	19.981	ug/l	90
47) n-amyl Acetate	12.500	43	76266	20.910	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	69964	19.888	ug/l	99
49) cis-1,3-Dichloropropene	10.318	75	78307	21.340	ug/l	93
50) 1,1,2-Trichloroethane	11.018	97	47324	20.680	ug/l	95
51) Ethyl methacrylate	10.876	69	62504m	17.686	ug/l	
52) 1,3-Dichloropropane	11.171	76	85116	21.787	ug/l	98
53) Dibromochloromethane	11.365	129	50516	21.047	ug/l	99
54) 1,2-Dibromoethane	11.476	107	46253	19.905	ug/l	100
55) 2-Chloroethyl vinyl ether	10.165	63	118169	94.102	ug/l	99
56) Bromoform	12.582	173	32159	19.229	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	330128	104.123	ug/l	94
59) 2-Hexanone	11.200	43	242123	108.738	ug/l	92
61) Tetrachloroethene	11.106	164	36873	19.613	ug/l	95
62) Toluene	10.635	91	213039	21.177	ug/l	100
64) Chlorobenzene	11.894	112	120357	20.508	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	46882	20.866	ug/l	99
66) Ethyl Benzene	11.970	91	212554	20.985	ug/l	98
67) m/p-Xylenes	12.076	106	164678	43.208	ug/l	99
68) o-Xylene	12.400	106	76544	20.825	ug/l	100
69) Styrene	12.417	104	124103	21.169	ug/l	97
70) Isopropylbenzene	12.700	105	201226	21.538	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	72888	20.855	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	55212m	18.775	ug/l	
73) Bromobenzene	12.988	156	45305	19.413	ug/l	97
74) n-propylbenzene	13.041	91	238377	22.393	ug/l	98
75) 2-Chlorotoluene	13.129	91	143967	21.092	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	170529	22.075	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	19507	18.841	ug/l	91
78) 4-Chlorotoluene	13.223	91	137019	21.259	ug/l	97
79) tert-butylbenzene	13.441	119	131328	20.711	ug/l	95
80) 1,2,4-Trimethylbenzene	13.488	105	163059	22.102	ug/l	98
81) sec-Butylbenzene	13.623	105	191826	22.111	ug/l	100
82) p-Isopropyltoluene	13.735	119	151177	22.060	ug/l	98
83) 1,3-Dichlorobenzene	13.741	146	80343	21.677	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	72233	20.780	ug/l	98
85) n-Butylbenzene	14.059	91	114697	21.975	ug/l	97
86) Hexachloroethane	14.335	117	32896	24.245	ug/l	89
87) 1,2-Dichlorobenzene	14.111	146	78889	21.568	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	10691	18.097	ug/l	92
89) 1,2,4-Trichlorobenzene	15.841	180	25131	16.056	ug/l	100
90) Hexachlorobutadiene	15.506	225	18233	19.178	ug/l	95
91) Naphthalene	15.647	128	49471	12.095	ug/l	97
92) 1,2,3-Trichlorobenzene	15.841	180	25131	16.056	ug/l	100

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

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