

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081123\
 Data File : VN078871.D
 Acq On : 11 Aug 2023 18:28
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/14/2023
 Supervised By : Mahesh Dadoda 08/15/2023

Quant Time: Aug 12 01:43:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 05:05:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	27378	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	146286	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	127940	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	65626	29.774	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.233%		
60) 4-Bromofluorobenzene	12.853	95	54779	30.503	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.667%		
63) Toluene-d8	10.577	98	188836	30.120	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.400%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	41981	22.245	ug/l	99
3) Chloromethane	2.371	50	49709	22.120	ug/l	97
4) Vinyl Chloride	2.518	62	50734	23.725	ug/l	100
5) Bromomethane	2.959	94	31110	20.000	ug/l	98
6) Chloroethane	3.124	64	32101	21.133	ug/l	96
7) Trichlorofluoromethane	3.501	101	63943	21.787	ug/l	87
8) Diethyl Ether	3.977	74	23009	22.047	ug/l	78
9) 1,1,2-Trichlorotrifluo...	4.383	101	33768	21.448	ug/l	93
10) 1,1-Dichloroethene	4.353	96	32016	20.998	ug/l	86
11) Methyl Iodide	4.600	142	42967	21.125	ug/l	87
12) Methyl Acetate	5.042	43	72392	21.844	ug/l	96
13) Acrolein	4.195	56	35681	101.654	ug/l	99
14) Acrylonitrile	5.736	53	90151	103.240	ug/l	98
15) Acetone	4.448	58	22802	101.345	ug/l	93
16) Carbon Disulfide	4.718	76	93355	21.151	ug/l	97
17) Allyl chloride	5.042	41	56676m	21.265	ug/l	
18) Methylene Chloride	5.289	84	40577	21.326	ug/l #	74
19) trans-1,2-Dichloroethene	5.795	96	37818	21.602	ug/l	97
20) Diisopropyl ether	6.683	45	134243	22.430	ug/l #	95
21) 1,1-Dichloroethane	6.577	63	72779	21.329	ug/l	98
22) cis-1,2-Dichloroethene	7.500	96	43027	22.174	ug/l	99
23) tert-Butyl Alcohol	5.530	59	29000m	89.374	ug/l	
24) Methyl tert-Butyl Ether	5.812	73	111880	21.923	ug/l #	84
25) Chloroform	7.977	83	74746	22.065	ug/l	84
26) Cyclohexane	8.271	56	57285	21.315	ug/l #	92
29) 1,1-Dichloropropene	8.377	75	54650	22.995	ug/l	81
30) 2-Butanone	7.494	43	127151	109.155	ug/l #	91
31) 2,2-Dichloropropane	7.500	77	55057	22.466	ug/l #	81
32) 1,1,1-Trichloroethane	8.171	97	65030	23.235	ug/l #	75
33) Carbon Tetrachloride	8.371	117	52924	21.909	ug/l	97
34) Benzene	8.612	78	169907	23.495	ug/l	95
35) Methacrylonitrile	7.783	41	29662	21.685	ug/l	79
36) 1,2-Dichloroethane	8.677	62	59803	23.657	ug/l #	89
37) Trichloroethene	9.359	130	38205	21.955	ug/l	95
38) Methylcyclohexane	9.606	83	50161	22.293	ug/l	90
39) 1,2-Dichloropropane	9.635	63	43336	22.651	ug/l	94
40) Dibromomethane	9.718	93	28523	22.388	ug/l	95
41) Bromodichloromethane	9.900	83	58937	22.959	ug/l #	90
42) Vinyl Acetate	6.618	43	425523	116.085	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	48789	20.176	ug/l	97
44) Isopropyl Acetate	8.700	43	99595	22.937	ug/l	92
45) 1,4-Dioxane	9.706	88	13818	474.322	ug/l #	85
46) Methyl methacrylate	9.688	41	43166	23.476	ug/l	85
47) n-amyl Acetate	12.500	43	73596	24.244	ug/l	94
48) t-1,3-Dichloropropene	10.841	75	56931	21.963	ug/l	92
49) cis-1,3-Dichloropropene	10.318	75	65272	22.642	ug/l #	85
50) 1,1,2-Trichloroethane	11.024	97	38792	22.408	ug/l	94
51) Ethyl methacrylate	10.882	69	55373	22.820	ug/l	80
52) 1,3-Dichloropropane	11.171	76	68069	22.900	ug/l	97
53) Dibromochloromethane	11.365	129	39097	21.639	ug/l	95
54) 1,2-Dibromoethane	11.477	107	39547	23.383	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	105302	117.672	ug/l	96
56) Bromoform	12.582	173	25737	22.755	ug/l	97
58) 4-Methyl-2-Pentanone	10.453	43	282056	114.696	ug/l #	92
59) 2-Hexanone	11.200	43	197372	115.497	ug/l	90
61) Tetrachloroethene	11.112	164	30633	20.928	ug/l	91
62) Toluene	10.635	91	174386	23.152	ug/l	100
64) Chlorobenzene	11.900	112	97232	22.050	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.971	131	37946	22.335	ug/l	98
66) Ethyl Benzene	11.971	91	169955	21.726	ug/l	100
67) m/p-Xylenes	12.076	106	128552	44.817	ug/l	95
68) o-Xylene	12.406	106	63167	22.125	ug/l	96
69) Styrene	12.418	104	101859	23.348	ug/l	97
70) Isopropylbenzene	12.700	105	157832	22.381	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	58694	24.561	ug/l	97
72) 1,2,3-Trichloropropane	13.000	75	43638m	20.920	ug/l	
73) Bromobenzene	12.988	156	35223	20.898	ug/l	89
74) n-propylbenzene	13.041	91	182597	23.399	ug/l	99
75) 2-Chlorotoluene	13.129	91	114308	23.513	ug/l	96
76) 1,3,5-Trimethylbenzene	13.182	105	129142	23.056	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	15691	23.965	ug/l	82
78) 4-Chlorotoluene	13.229	91	103244	22.892	ug/l	100
79) tert-butylbenzene	13.441	119	105163	22.883	ug/l	96
80) 1,2,4-Trimethylbenzene	13.488	105	129343	24.472	ug/l	99
81) sec-Butylbenzene	13.623	105	147483	23.971	ug/l	99
82) p-Isopropyltoluene	13.735	119	117217	24.323	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	62029	23.813	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	57970	23.304	ug/l	97
85) n-Butylbenzene	14.065	91	94523	26.654	ug/l	95
86) Hexachloroethane	14.335	117	22838	22.498	ug/l	92
87) 1,2-Dichlorobenzene	14.112	146	61933	24.167	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.723	75	8018	23.622	ug/l	96
89) 1,2,4-Trichlorobenzene	15.400	180	15091	21.276	ug/l	88
90) Hexachlorobutadiene	15.506	225	12310	23.573	ug/l	94
91) Naphthalene	15.647	128	43531	19.626	ug/l #	91
92) 1,2,3-Trichlorobenzene	15.853	180	18882	22.697	ug/l	96

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

