

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
 Data File : VN076682.D
 Acq On : 15 Feb 2023 12:50
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/16/2023
 Supervised By : Mahesh Dadoda 02/18/2023

Quant Time: Feb 15 13:08:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 15 12:25:13 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	36091	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	256687	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	277547	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	99324	23.350	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	77.833%#		
60) 4-Bromofluorobenzene	12.848	95	143872	22.961	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	76.533%		
63) Toluene-d8	10.571	98	293153	28.766	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.900%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	36297	7.266	ug/l	93
3) Chloromethane	2.372	50	42048	7.001	ug/l	99
4) Vinyl Chloride	2.525	62	47045	8.970	ug/l	97
5) Bromomethane	2.972	94	39974	15.182	ug/l	97
6) Chloroethane	3.131	64	30664	10.150	ug/l	92
7) Trichlorofluoromethane	3.513	101	58307	6.547	ug/l	97
8) Diethyl Ether	3.978	74	23916	8.467	ug/l	53
9) 1,1,2-Trichlorotrifluo...	4.390	101	35376	8.252	ug/l	79
10) 1,1-Dichloroethene	4.354	96	32704	8.118	ug/l	92
11) Methyl Iodide	4.607	142	25009	4.273	ug/l	92
12) Methyl Acetate	5.048	43	66997	7.925	ug/l	99
13) Acrolein	4.201	56	42868m	39.591	ug/l	
14) Acrylonitrile	5.737	53	105535	42.611	ug/l	70
15) Acetone	4.442	58	35178	49.192	ug/l	95
16) Carbon Disulfide	4.725	76	88562	7.999	ug/l	99
17) Allyl chloride	5.042	41	55100	7.095	ug/l	93
18) Methylene Chloride	5.284	84	42146	8.841	ug/l	83
19) trans-1,2-Dichloroethene	5.807	96	37613	9.089	ug/l	83
20) Diisopropyl ether	6.678	45	136342	7.691	ug/l #	93
21) 1,1-Dichloroethane	6.578	63	69087	7.147	ug/l	96
22) cis-1,2-Dichloroethene	7.495	96	41364	8.342	ug/l	97
23) tert-Butyl Alcohol	5.537	59	29184	35.115	ug/l #	100
24) Methyl tert-Butyl Ether	5.813	73	112728	7.770	ug/l #	85
25) Chloroform	7.972	83	70265	7.346	ug/l	98
26) Cyclohexane	8.266	56	62656	7.304	ug/l #	92
29) 1,1-Dichloropropene	8.377	75	49892	7.509	ug/l	99
30) 2-Butanone	7.489	43	154235	43.006	ug/l	98
31) 2,2-Dichloropropane	7.501	77	54051	7.835	ug/l #	83
32) 1,1,1-Trichloroethane	8.178	97	59791	7.253	ug/l	99
33) Carbon Tetrachloride	8.372	117	51783	7.282	ug/l	87
34) Benzene	8.613	78	162723	7.971	ug/l	93
35) Methacrylonitrile	7.789	41	32980	7.998	ug/l	93
36) 1,2-Dichloroethane	8.683	62	55219	7.053	ug/l	98
37) Trichloroethene	9.360	130	38532	9.219	ug/l	97
38) Methylcyclohexane	9.607	83	65313	8.881	ug/l	98
39) 1,2-Dichloropropane	9.624	63	42472	8.718	ug/l	99
40) Dibromomethane	9.713	93	27090	8.452	ug/l	95
41) Bromodichloromethane	9.889	83	53463	7.933	ug/l	91
42) Vinyl Acetate	6.619	43	440563	37.767	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	59399m	8.122	ug/l	
44) Isopropyl Acetate	8.695	43	94117	7.824	ug/l	100
45) 1,4-Dioxane	9.695	88	16800	171.322	ug/l #	94
46) Methyl methacrylate	9.683	41	44132	7.609	ug/l	97
47) n-amyl Acetate	12.495	43	79769	7.801	ug/l	98
48) t-1,3-Dichloropropene	10.836	75	52911	7.800	ug/l	96
49) cis-1,3-Dichloropropene	10.319	75	62642	8.353	ug/l	91
50) 1,1,2-Trichloroethane	11.019	97	39050	8.971	ug/l	98
51) Ethyl methacrylate	10.877	69	52916	7.656	ug/l	95
52) 1,3-Dichloropropane	11.166	76	66896	8.245	ug/l	100
53) Dibromochloromethane	11.360	129	37691	8.333	ug/l	98
54) 1,2-Dibromoethane	11.471	107	36641	8.319	ug/l	95
55) 2-Chloroethyl vinyl ether	10.166	63	123659	39.170	ug/l	99
56) Bromoform	12.583	173	24279	8.335	ug/l	97
58) 4-Methyl-2-Pentanone	10.448	43	301243	38.826	ug/l	100
59) 2-Hexanone	11.201	43	228014	40.419	ug/l	97
61) Tetrachloroethene	11.107	164	30446	8.582	ug/l #	90
62) Toluene	10.636	91	172500	8.383	ug/l	99
64) Chlorobenzene	11.895	112	100691	8.447	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.966	131	37492	8.296	ug/l	94
66) Ethyl Benzene	11.966	91	180182	7.987	ug/l	100
67) m/p-Xylenes	12.071	106	139524	16.484	ug/l	97
68) o-Xylene	12.401	106	68922	8.265	ug/l	95
69) Styrene	12.413	104	106365	8.036	ug/l	98
70) Isopropylbenzene	12.701	105	172469	7.718	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	59364	7.620	ug/l	97
72) 1,2,3-Trichloropropane	13.001	75	53191m	7.475	ug/l	
73) Bromobenzene	12.983	156	41574	7.841	ug/l	97
74) n-propylbenzene	13.042	91	199543	6.962	ug/l	98
75) 2-Chlorotoluene	13.130	91	125236	6.947	ug/l	98
76) 1,3,5-Trimethylbenzene	13.177	105	145573	6.976	ug/l	96
77) t-1,4-Dichloro-2-butene	12.736	75	14978	6.979	ug/l	95
78) 4-Chlorotoluene	13.224	91	117489	6.481	ug/l	98
79) tert-butylbenzene	13.442	119	122065	6.892	ug/l	96
80) 1,2,4-Trimethylbenzene	13.483	105	140541	6.829	ug/l	99
81) sec-Butylbenzene	13.618	105	177980	7.176	ug/l	99
82) p-Isopropyltoluene	13.730	119	139206	6.986	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	76126	7.762	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	70952	7.251	ug/l	95
85) n-Butylbenzene	14.060	91	117009	6.323	ug/l	100
86) Hexachloroethane	14.336	117	27703	7.160	ug/l	99
87) 1,2-Dichlorobenzene	14.112	146	75928	7.053	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	10307	6.491	ug/l	91
89) 1,2,4-Trichlorobenzene	15.395	180	37964	8.455	ug/l	97
90) Hexachlorobutadiene	15.501	225	18585	8.568	ug/l	93
91) Naphthalene	15.648	128	124932	8.155	ug/l	99
92) 1,2,3-Trichlorobenzene	15.848	180	39903	8.904	ug/l	93

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

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