

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091321\
 Data File : VN068454.D
 Acq On : 13 Sep 2021 13:39
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/14/2021
 Supervised By : Mahesh Dadoda 09/14/2021

Quant Time: Sep 14 04:09:23 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N091321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Sep 14 04:08:29 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	91494	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	489600	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	435508	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	176334	32.634	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.767%			
60) 4-Bromofluorobenzene	12.734	95	177561	28.604	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.333%			
63) Toluene-d8	10.443	98	594925	31.401	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 104.667%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.073	85	18836	4.520	ug/l	99
3) Chloromethane	2.303	50	22084	5.478	ug/l	93
4) Vinyl Chloride	2.443	62	35066	5.488	ug/l	99
5) Bromomethane	2.848	94	41289	6.506	ug/l	95
6) Chloroethane	3.017	64	26817	5.881	ug/l	99
7) Trichlorofluoromethane	3.374	101	42841	5.440	ug/l	99
8) Diethyl Ether	3.829	74	12856m	5.175	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.218	101	25789	5.749	ug/l	97
10) 1,1-Dichloroethene	4.183	96	22616	5.424	ug/l	96
11) Methyl Iodide	4.422	142	26638	4.115	ug/l	97
12) Methyl Acetate	4.859	43	23868	5.500	ug/l	92
13) Acrolein	4.044	56	11007	31.558	ug/l	98
14) Acrylonitrile	5.557	53	47380	25.211	ug/l	92
15) Acetone	4.299	58	13680	26.711	ug/l	97
16) Carbon Disulfide	4.532	76	57718	5.364	ug/l	98
17) Allyl chloride	4.846	41	26016	4.997	ug/l	98
18) Methylene Chloride	5.103	84	30634	6.138	ug/l	95
19) trans-1,2-Dichloroethene	5.602	96	24192m	5.172	ug/l	
20) Diisopropyl ether	6.495	45	60740	5.260	ug/l	98
21) 1,1-Dichloroethane	6.391	63	42363	5.520	ug/l	96
22) cis-1,2-Dichloroethene	7.329	96	29393	5.235	ug/l	98
23) tert-Butyl Alcohol	5.369	59	21321m	28.074	ug/l	
24) Methyl tert-Butyl Ether	5.621	73	72721	5.122	ug/l #	79
25) Chloroform	7.823	83	51361	5.592	ug/l	95
26) Cyclohexane	8.099	56	34334	5.291	ug/l #	99
29) 1,1-Dichloropropene	8.223	75	33774	5.149	ug/l	100
30) 2-Butanone	7.337	43	64744	25.859	ug/l #	99
31) 2,2-Dichloropropane	7.324	77	40332	5.343	ug/l	100
32) 1,1,1-Trichloroethane	8.016	97	46062	5.171	ug/l	99
33) Carbon Tetrachloride	8.206	117	42398	5.092	ug/l	99
34) Benzene	8.464	78	103984	5.198	ug/l #	90
35) Methacrylonitrile	7.638	41	12678	5.250	ug/l	96
36) 1,2-Dichloroethane	8.531	62	36319	5.393	ug/l	100
37) Trichloroethene	9.220	130	33718	5.244	ug/l	98
38) Methylcyclohexane	9.462	83	41354	4.904	ug/l	98
39) 1,2-Dichloropropane	9.491	63	24975	5.305	ug/l	96
40) Dibromomethane	9.580	93	20304	5.249	ug/l	95
41) Bromodichloromethane	9.762	83	38226	5.113	ug/l #	95
42) Vinyl Acetate	6.436	43	227355m	25.275	ug/l	

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43) Ethyl Acetate	7.415	43	28807m	5.303	ug/l	
44) Isopropyl Acetate	8.563	43	45742	5.070	ug/l	99
45) 1,4-Dioxane	9.574	88	8192	89.624	ug/l #	91
46) Methyl methacrylate	9.561	41	17664	4.831	ug/l	92
47) n-amyl Acetate	12.393	43	25796	4.064	ug/l	97
48) t-1,3-Dichloropropene	10.719	75	35782	4.727	ug/l	96
49) cis-1,3-Dichloropropene	10.191	75	40402	4.967	ug/l	98
50) 1,1,2-Trichloroethane	10.902	97	28851	5.161	ug/l	98
51) Ethyl methacrylate	10.765	69	31803	4.431	ug/l	91
52) 1,3-Dichloropropane	11.047	76	42639	5.129	ug/l	99
53) Dibromochloromethane	11.240	129	31667	4.607	ug/l	98
54) 1,2-Dibromoethane	11.347	107	29293	4.886	ug/l	97
55) 2-Chloroethyl vinyl ether	10.044	63	21730	17.884	ug/l	98
56) Bromoform	12.460	173	22269	4.033	ug/l #	99
58) 4-Methyl-2-Pentanone	10.333	43	132127	25.772	ug/l	98
59) 2-Hexanone	11.090	43	89746	25.259	ug/l	94
61) Tetrachloroethene	10.980	164	33291	5.316	ug/l	95
62) Toluene	10.508	91	124203	5.419	ug/l	100
64) Chlorobenzene	11.773	112	79322	5.247	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.846	131	31126	5.045	ug/l	98
66) Ethyl Benzene	11.849	91	126847	5.092	ug/l	98
67) m/p-Xylenes	11.956	106	98685	9.611	ug/l	97
68) o-Xylene	12.283	106	49276	4.860	ug/l	99
69) Styrene	12.296	104	72751	4.525	ug/l	97
70) Isopropylbenzene	12.581	105	121886	4.735	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.830	83	35742	5.101	ug/l	96
72) 1,2,3-Trichloropropane	12.884	75	28677m	5.091	ug/l	
73) Bromobenzene	12.865	156	34300	4.694	ug/l	97
74) n-propylbenzene	12.924	91	132791	4.783	ug/l	98
75) 2-Chlorotoluene	13.010	91	84307	5.046	ug/l	98
76) 1,3,5-Trimethylbenzene	13.061	105	101064	4.702	ug/l	97
77) t-1,4-Dichloro-2-butene	12.626	75	8277	4.300	ug/l	88
78) 4-Chlorotoluene	13.109	91	77618	4.841	ug/l	99
79) tert-butylbenzene	13.326	119	89892	4.553	ug/l	95
80) 1,2,4-Trimethylbenzene	13.372	105	95796m	3.814	ug/l	
81) sec-Butylbenzene	13.503	105	118403	4.537	ug/l	99
82) p-Isopropyltoluene	13.619	119	96868	4.327	ug/l	99
83) 1,3-Dichlorobenzene	13.619	146	57827	4.553	ug/l	98
84) 1,4-Dichlorobenzene	13.696	146	54440	4.474	ug/l	98
85) n-Butylbenzene	13.946	91	68872	4.325	ug/l	98
86) Hexachloroethane	14.211	117	18318	4.455	ug/l	96
87) 1,2-Dichlorobenzene	13.991	146	55461	4.544	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.606	75	5593	4.721	ug/l	89
89) 1,2,4-Trichlorobenzene	15.268	180	21955	3.723	ug/l	99
90) Hexachlorobutadiene	15.375	225	16158	4.332	ug/l	97
91) Naphthalene	15.509	128	48037	3.776	ug/l #	94
92) 1,2,3-Trichlorobenzene	15.703	180	21479	3.867	ug/l	98

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

