

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092521\
 Data File : VN068684.D
 Acq On : 25 Sep 2021 23:02
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 9/27/2021 11:01:17 AM

Quant Time: Sep 27 06:51:28 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 27 06:50:46 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	78254	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	431319	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	476413	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	191970	39.024	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 130.067%#			
60) 4-Bromofluorobenzene	12.734	95	196171	28.515	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.033%			
63) Toluene-d8	10.443	98	710618	33.800	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 112.667%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.073	85	17373	4.602	ug/l	95
3) Chloromethane	2.303	50	27588	6.982	ug/l	98
4) Vinyl Chloride	2.445	62	31015	5.358	ug/l	100
5) Bromomethane	2.850	94	23525m	4.489	ug/l	
6) Chloroethane	3.017	64	23308	5.704	ug/l	91
7) Trichlorofluoromethane	3.373	101	38005	5.386	ug/l	91
8) Diethyl Ether	3.827	74	13274	5.823	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.216	101	20147	5.061	ug/l	78
10) 1,1-Dichloroethene	4.189	96	19021	5.126	ug/l	97
11) Methyl Iodide	4.427	142	20539	3.659	ug/l	95
12) Methyl Acetate	4.859	43	45746	9.595	ug/l	94
13) Acrolein	4.052	56	9116m	31.300	ug/l	
14) Acrylonitrile	5.554	53	58653	32.176	ug/l #	63
15) Acetone	4.296	58	15284	31.737	ug/l	92
16) Carbon Disulfide	4.535	76	55038	5.566	ug/l	99
17) Allyl chloride	4.843	41	36886	7.148	ug/l	92
18) Methylene Chloride	5.101	84	25906	5.792	ug/l	98
19) trans-1,2-Dichloroethene	5.599	96	21861m	5.250	ug/l	
20) Diisopropyl ether	6.498	45	79088	6.955	ug/l	98
21) 1,1-Dichloroethane	6.388	63	45162	6.297	ug/l	98
22) cis-1,2-Dichloroethene	7.327	96	25291	5.081	ug/l #	88
23) tert-Butyl Alcohol	5.361	59	20966m	30.028	ug/l	
24) Methyl tert-Butyl Ether	5.610	73	70219m	5.436	ug/l	
25) Chloroform	7.817	83	49455	6.022	ug/l	94
26) Cyclohexane	8.096	56	35617	5.821	ug/l #	97
29) 1,1-Dichloropropene	8.222	75	33250	5.499	ug/l	83
30) 2-Butanone	7.337	43	86675	34.559	ug/l #	96
31) 2,2-Dichloropropane	7.327	77	30404	4.626	ug/l #	70
32) 1,1,1-Trichloroethane	8.016	97	41372	5.185	ug/l	98
33) Carbon Tetrachloride	8.212	117	35315	4.760	ug/l	97
34) Benzene	8.461	78	99063	5.388	ug/l #	82
35) Methacrylonitrile	7.643	41	20036m	8.072	ug/l	
36) 1,2-Dichloroethane	8.531	62	40471	6.444	ug/l #	92
37) Trichloroethene	9.217	130	26773	4.748	ug/l	96
38) Methylcyclohexane	9.462	83	36160	4.731	ug/l	95
39) 1,2-Dichloropropane	9.494	63	26863	6.047	ug/l	99
40) Dibromomethane	9.577	93	24310	6.954	ug/l	95
41) Bromodichloromethane	9.765	83	48251	7.093	ug/l	97
42) Vinyl Acetate	6.436	43	294615m	31.934	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.418	43	41003m	7.772	ug/l	
44) Isopropyl Acetate	8.566	43	69100	7.672	ug/l #	87
45) 1,4-Dioxane	9.571	88	9749	117.863	ug/l #	36
46) Methyl methacrylate	9.561	41	36593	9.930	ug/l	95
47) n-amyl Acetate	12.390	43	48711	7.603	ug/l	99
48) t-1,3-Dichloropropene	10.719	75	47568	6.841	ug/l	94
49) cis-1,3-Dichloropropene	10.191	75	49379	6.639	ug/l	91
50) 1,1,2-Trichloroethane	10.902	97	33425	6.650	ug/l	94
51) Ethyl methacrylate	10.762	69	46436	6.910	ug/l	98
52) 1,3-Dichloropropane	11.047	76	54602	7.134	ug/l	100
53) Dibromochloromethane	11.240	129	33048	5.465	ug/l	99
54) 1,2-Dibromoethane	11.347	107	32023	5.998	ug/l	97
55) 2-Chloroethyl vinyl ether	10.044	63	52744	42.561	ug/l	99
56) Bromoform	12.457	173	19909	4.148	ug/l #	100
58) 4-Methyl-2-Pentanone	10.333	43	248467	38.660	ug/l	99
59) 2-Hexanone	11.087	43	169815	37.874	ug/l	97
61) Tetrachloroethene	10.977	164	28766	4.301	ug/l	94
62) Toluene	10.507	91	144498	5.601	ug/l	99
64) Chlorobenzene	11.773	112	81379	4.864	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.846	131	31108	4.620	ug/l	99
66) Ethyl Benzene	11.846	91	141377	5.043	ug/l	96
67) m/p-Xylenes	11.956	106	102185	9.016	ug/l	96
68) o-Xylene	12.283	106	49904	4.445	ug/l	96
69) Styrene	12.296	104	73672	4.152	ug/l	97
70) Isopropylbenzene	12.581	105	123961	4.357	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.830	83	40802	5.156	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	39822m	5.980	ug/l	
73) Bromobenzene	12.865	156	27564	3.508	ug/l	92
74) n-propylbenzene	12.924	91	134063	4.325	ug/l	99
75) 2-Chlorotoluene	13.010	91	85845	4.604	ug/l	97
76) 1,3,5-Trimethylbenzene	13.061	105	96229	4.057	ug/l	100
77) t-1,4-Dichloro-2-butene	12.626	75	9030	4.092	ug/l	85
78) 4-Chlorotoluene	13.106	91	78048	4.371	ug/l	98
79) tert-butylbenzene	13.326	119	81918	3.796	ug/l	96
80) 1,2,4-Trimethylbenzene	13.369	105	89436	3.893	ug/l #	82
81) sec-Butylbenzene	13.503	105	102876	3.579	ug/l	99
82) p-Isopropyltoluene	13.616	119	73473	2.995	ug/l	98
83) 1,3-Dichlorobenzene	13.619	146	39382	2.889	ug/l	100
84) 1,4-Dichlorobenzene	13.696	146	37242	2.845	ug/l	100
85) n-Butylbenzene	13.946	91	57855	3.231	ug/l	97
86) Hexachloroethane	14.211	117	15558	3.417	ug/l	95
87) 1,2-Dichlorobenzene	13.989	146	40327	3.078	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.603	75	6223	4.514	ug/l	91
89) 1,2,4-Trichlorobenzene	15.265	180	16228	2.502	ug/l	99
90) Hexachlorobutadiene	15.370	225	10506	2.644	ug/l	95
91) Naphthalene	15.512	128	42156	2.924	ug/l	98
92) 1,2,3-Trichlorobenzene	15.700	180	15998m	2.616	ug/l	

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

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