

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070121\
 Data File : VN067587.D
 Acq On : 1 Jul 2021 9:37
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/5/2021 1:59:42 PM

Quant Time: Jul 01 11:34:28 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N070121W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 01 11:33:18 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	60489	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	371085	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.749	117	336546	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	155563	26.584	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	88.600%#
60) 4-Bromofluorobenzene	12.736	95	150337	24.647	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	82.167%
63) Toluene-d8	10.443	98	480555	30.278	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.933%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	19367	5.175	ug/l	99
3) Chloromethane	2.303	50	25923	6.052	ug/l	97
4) Vinyl Chloride	2.443	62	40911	8.228	ug/l	93
5) Bromomethane	2.856	94	37480	12.295	ug/l	92
6) Chloroethane	3.019	64	33756	10.437	ug/l	92
7) Trichlorofluoromethane	3.371	101	85508	10.728	ug/l	99
8) Diethyl Ether	3.816	74	13732	5.524	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.200	101	17645m	5.680	ug/l	
10) 1,1-Dichloroethene	4.173	96	17148	5.680	ug/l	82
11) Methyl Iodide	4.417	142	17536	4.674	ug/l	84
12) Methyl Acetate	4.865	43	18931	4.337	ug/l	98
13) Acrolein	4.039	56	14954	27.374	ug/l #	54
14) Acrylonitrile	5.565	53	44753m	24.104	ug/l	
15) Acetone	4.296	58	11273m	24.535	ug/l	
16) Carbon Disulfide	4.519	76	45689	4.870	ug/l	100
17) Allyl chloride	4.835	41	27735m	4.405	ug/l	
18) Methylene Chloride	5.098	84	22654m	5.985	ug/l	
19) trans-1,2-Dichloroethene	5.597	96	18355	5.437	ug/l #	75
20) Diisopropyl ether	6.501	45	63925	5.040	ug/l	98
21) 1,1-Dichloroethane	6.391	63	36186	5.109	ug/l	100
22) cis-1,2-Dichloroethene	7.329	96	23030m	5.676	ug/l	
23) tert-Butyl Alcohol	5.385	59	19695m	24.672	ug/l	
24) Methyl tert-Butyl Ether	5.626	73	63032	4.928	ug/l	95
25) Chloroform	7.815	83	38534	5.204	ug/l	97
26) Cyclohexane	8.094	56	31978	5.181	ug/l #	89
29) 1,1-Dichloropropene	8.220	75	26729	4.802	ug/l	91
30) 2-Butanone	7.346	43	60652	21.851	ug/l	95
31) 2,2-Dichloropropane	7.327	77	30995	5.241	ug/l	99
32) 1,1,1-Trichloroethane	8.011	97	33842	4.847	ug/l #	83
33) Carbon Tetrachloride	8.206	117	27109	4.605	ug/l	92
34) Benzene	8.459	78	85735	5.384	ug/l #	79
35) Methacrylonitrile	7.643	41	13599	4.587	ug/l	93
36) 1,2-Dichloroethane	8.534	62	32439	4.914	ug/l #	85
37) Trichloroethene	9.220	130	21688	5.613	ug/l	86
38) Methylcyclohexane	9.462	83	32583	5.576	ug/l	91
39) 1,2-Dichloropropane	9.494	63	22222	5.210	ug/l	95
40) Dibromomethane	9.577	93	15434	5.209	ug/l	91
41) Bromodichloromethane	9.765	83	29426	4.771	ug/l	99
42) Vinyl Acetate	6.436	43	262895m	22.515	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.418	43	27331	4.874	ug/l #	89
44) Isopropyl Acetate	8.566	43	47396	4.521	ug/l	95
45) 1,4-Dioxane	9.572	88	7549	108.770	ug/l #	81
46) Methyl methacrylate	9.561	41	19347	4.169	ug/l	92
47) n-amyl Acetate	12.393	43	33765	3.825	ug/l	98
48) t-1,3-Dichloropropene	10.722	75	28160	4.188	ug/l	99
49) cis-1,3-Dichloropropene	10.191	75	31516	4.577	ug/l	90
50) 1,1,2-Trichloroethane	10.902	97	21282	5.452	ug/l	95
51) Ethyl methacrylate	10.765	69	31292	4.589	ug/l	93
52) 1,3-Dichloropropane	11.047	76	36091	5.183	ug/l	100
53) Dibromochloromethane	11.237	129	20498	4.813	ug/l	97
54) 1,2-Dibromoethane	11.350	107	21180	5.203	ug/l	98
55) 2-Chloroethyl vinyl ether	10.044	63	31686	19.307	ug/l	97
56) Bromoform	12.460	173	12189	4.253	ug/l #	100
58) 4-Methyl-2-Pentanone	10.333	43	141509	23.367	ug/l	98
59) 2-Hexanone	11.090	43	93416	21.512	ug/l	98
61) Tetrachloroethene	10.982	164	22550	6.510	ug/l	92
62) Toluene	10.508	91	100314	5.761	ug/l	97
64) Chlorobenzene	11.773	112	56624	5.523	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.846	131	19189m	5.008	ug/l	
66) Ethyl Benzene	11.846	91	104154	5.212	ug/l	98
67) m/p-Xylenes	11.958	106	79133	10.956	ug/l	86
68) o-Xylene	12.283	106	39751	5.499	ug/l	85
69) Styrene	12.296	104	59437	4.977	ug/l	93
70) Isopropylbenzene	12.581	105	98689	5.355	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.830	83	28638	5.126	ug/l	97
72) 1,2,3-Trichloropropane	12.884	75	24907m	4.645	ug/l	
73) Bromobenzene	12.862	156	21727	5.521	ug/l	74
74) n-propylbenzene	12.924	91	111393	5.091	ug/l	99
75) 2-Chlorotoluene	13.012	91	66032	4.797	ug/l #	100
76) 1,3,5-Trimethylbenzene	13.063	105	79102	5.058	ug/l	97
77) t-1,4-Dichloro-2-butene	12.629	75	6404	3.615	ug/l	97
78) 4-Chlorotoluene	13.109	91	63378	4.661	ug/l	90
79) tert-butylbenzene	13.326	119	66816	5.277	ug/l	89
80) 1,2,4-Trimethylbenzene	13.372	105	76867	5.003	ug/l #	66
81) sec-Butylbenzene	13.506	105	93758	5.328	ug/l	97
82) p-Isopropyltoluene	13.619	119	73445	5.173	ug/l	96
83) 1,3-Dichlorobenzene	13.621	146	39215	5.504	ug/l	93
84) 1,4-Dichlorobenzene	13.696	146	35956	5.059	ug/l	95
85) n-Butylbenzene	13.946	91	62015	4.853	ug/l	97
86) Hexachloroethane	14.214	117	11509	4.170	ug/l	94
87) 1,2-Dichlorobenzene	13.991	146	36901	5.354	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.608	75	4293	3.337	ug/l #	68
89) 1,2,4-Trichlorobenzene	15.268	180	14067	4.219	ug/l	96
90) Hexachlorobutadiene	15.373	225	8674	5.014	ug/l	99
91) Naphthalene	15.509	128	36260	3.335	ug/l #	90
92) 1,2,3-Trichlorobenzene	15.705	180	13232	4.081	ug/l	94

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

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