

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020321\
 Data File : VN065695.D
 Acq On : 3 Feb 2021 12:50
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 2/4/2021 10:33:10 AM

Quant Time: Feb 03 13:36:15 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 03 13:35:42 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.148	128	28488	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.547	114	165147	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.376	117	139645	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.984	65	60531	33.35	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 111.17%#			
60) 4-Bromofluorobenzene	12.370	95	65675	30.43	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.43%			
63) Toluene-d8	10.055	98	208052	33.35	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 111.17%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.836	85	8192	5.62	ug/l	94
3) Chloromethane	2.036	50	12709	6.79	ug/l	99
4) Vinyl Chloride	2.168	62	12160	6.01	ug/l	99
5) Bromomethane	2.537	94	8128	5.88	ug/l	98
6) Chloroethane	2.679	64	7176	5.61	ug/l	94
7) Trichlorofluoromethane	2.991	101	12981	5.08	ug/l	96
8) Diethyl Ether	3.377	74	5852	5.53	ug/l	91
9) 1,1,2-Trichlorotrifluo...	3.711	101	7716	5.07	ug/l	92
10) 1,1-Dichloroethene	3.695	96	8396	5.33	ug/l	90
11) Methyl Iodide	3.907	142	10973	4.51	ug/l	98
12) Methyl Acetate	4.283	43	10837	6.76	ug/l	92
13) Acrolein	3.569	56	6300	23.75	ug/l	100
14) Acrylonitrile	4.936	53	21264	29.38	ug/l	96
15) Acetone	3.778	58	8088	35.36	ug/l	98
16) Carbon Disulfide	4.003	76	26863	6.64	ug/l	96
17) Allyl chloride	4.274	41	14966	6.31	ug/l	94
18) Methylene Chloride	4.499	84	10309	5.96	ug/l	94
19) trans-1,2-Dichloroethene	4.981	96	9508	5.92	ug/l	94
20) Diisopropyl ether	5.907	45	32780	6.65	ug/l	94
21) 1,1-Dichloroethane	5.791	63	17877	6.19	ug/l	98
22) cis-1,2-Dichloroethene	6.775	96	10478	5.61	ug/l	93
23) tert-Butyl Alcohol	4.766	59	7790	33.32	ug/l #	100
24) Methyl tert-Butyl Ether	4.997	73	27915	5.89	ug/l	97
25) Chloroform	7.325	83	15935	5.48	ug/l	100
26) Cyclohexane	7.608	56	16558	6.62	ug/l #	90
29) 1,1-Dichloropropene	7.749	75	13092	5.47	ug/l	96
30) 2-Butanone	6.791	43	29436	29.81	ug/l	93
31) 2,2-Dichloropropane	6.769	77	14103	5.69	ug/l	97
32) 1,1,1-Trichloroethane	7.524	97	13398	5.09	ug/l	97
33) Carbon Tetrachloride	7.727	117	10378	4.51	ug/l	94
34) Benzene	7.997	78	41261	5.61	ug/l #	72
35) Methacrylonitrile	7.129	41	5914	5.95	ug/l	87
36) 1,2-Dichloroethane	8.084	62	12197	5.14	ug/l	99
37) Trichloroethene	8.798	130	9618	4.55	ug/l	94
38) Methylcyclohexane	9.039	83	15759	5.63	ug/l	92
39) 1,2-Dichloropropane	9.077	63	10949	5.69	ug/l	97
40) Dibromomethane	9.174	93	6234	4.99	ug/l	83
41) Bromodichloromethane	9.367	83	12385	5.07	ug/l #	92
42) Vinyl Acetate	5.846	43	126252	29.55	ug/l	97

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43) Ethyl Acetate	6.888	43	10690m	5.11	ug/l	
44) Isopropyl Acetate	8.126	43	20163	5.75	ug/l	99
45) 1,4-Dioxane	9.174	88	3161	120.79	ug/l #	83
46) Methyl methacrylate	9.164	41	9935	5.78	ug/l	96
47) n-amyl Acetate	12.042	43	15881	5.28	ug/l	92
48) t-1,3-Dichloropropene	10.351	75	14030	5.09	ug/l	96
49) cis-1,3-Dichloropropene	9.804	75	16202	5.34	ug/l	99
50) 1,1,2-Trichloroethane	10.531	97	9097	4.98	ug/l	96
51) Ethyl methacrylate	10.396	69	13767	5.22	ug/l	97
52) 1,3-Dichloropropane	10.675	76	16187	5.26	ug/l	99
53) Dibromochloromethane	10.868	129	8808	4.40	ug/l	96
54) 1,2-Dibromoethane	10.974	107	8571	4.42	ug/l	97
55) 2-Chloroethyl vinyl ether	9.659	63	25411	21.43	ug/l	95
56) Bromoform	12.096	173	5324	3.51	ug/l #	91
58) 4-Methyl-2-Pentanone	9.949	43	57715	29.98	ug/l	97
59) 2-Hexanone	10.720	43	41430	29.74	ug/l	96
61) Tetrachloroethene	10.598	164	9633	4.49	ug/l #	87
62) Toluene	10.119	91	42298	5.72	ug/l	99
64) Chlorobenzene	11.402	112	24099	5.10	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.476	131	8439	4.82	ug/l	97
66) Ethyl Benzene	11.479	91	43584	5.40	ug/l	98
67) m/p-Xylenes	11.592	106	32052	10.24	ug/l	96
68) o-Xylene	11.916	106	15922	5.25	ug/l	96
69) Styrene	11.932	104	23820	4.75	ug/l	97
70) Isopropylbenzene	12.219	105	39843	5.04	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.473	83	11473	5.07	ug/l	97
72) 1,2,3-Trichloropropane	12.524	75	11868m	5.44	ug/l	
73) Bromobenzene	12.495	156	9089	4.19	ug/l	70
74) n-propylbenzene	12.559	91	44489	5.01	ug/l	95
75) 2-Chlorotoluene	12.643	91	28762	5.35	ug/l	91
76) 1,3,5-Trimethylbenzene	12.704	105	32990	4.90	ug/l	97
77) t-1,4-Dichloro-2-butene	12.270	75	4000	5.15	ug/l	93
78) 4-Chlorotoluene	12.743	91	26586	4.93	ug/l	93
79) tert-butylbenzene	12.965	119	28079	4.88	ug/l	96
80) 1,2,4-Trimethylbenzene	13.010	105	32698	4.88	ug/l	100
81) sec-Butylbenzene	13.141	105	36379	4.86	ug/l	94
82) p-Isopropyltoluene	13.257	119	31293	4.51	ug/l	96
83) 1,3-Dichlorobenzene	13.254	146	14147	3.90	ug/l	98
84) 1,4-Dichlorobenzene	13.334	146	13341	3.75	ug/l	96
85) n-Butylbenzene	13.585	91	25610	4.59	ug/l	96
86) Hexachloroethane	13.842	117	5289	4.58	ug/l	70
87) 1,2-Dichlorobenzene	13.624	146	14653	4.09	ug/l	94
88) 1,2-Dibromo-3-Chloropr...	14.241	75	1798	4.34	ug/l #	72
89) 1,2,4-Trichlorobenzene	14.878	180	4946	2.64	ug/l	93
90) Hexachlorobutadiene	14.977	225	3843	3.23	ug/l	95
91) Naphthalene	15.100	128	14581	3.00	ug/l	98
92) 1,2,3-Trichlorobenzene	15.283	180	5086	2.75	ug/l	97

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

