

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102221\
 Data File : VN069133.D
 Acq On : 22 Oct 2021 13:45
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN102221

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/25/2021
 Supervised By : Mahesh Dadoda 10/25/2021

Quant Time: Oct 23 07:53:21 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 22 13:15:19 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	58344	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	350262	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	324081	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	140098	30.829	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.767%			
60) 4-Bromofluorobenzene	12.734	95	163818	29.480	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.267%			
63) Toluene-d8	10.443	98	439518	30.017	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.067%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	88343	22.900	ug/l	99
3) Chloromethane	2.303	50	90715	22.618	ug/l	96
4) Vinyl Chloride	2.445	62	102730	21.488	ug/l	100
5) Bromomethane	2.861	94	75946	24.221	ug/l	99
6) Chloroethane	3.019	64	66208	21.365	ug/l	96
7) Trichlorofluoromethane	3.379	101	137929	22.280	ug/l	98
8) Diethyl Ether	3.829	74	48181	21.981	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.218	101	76038	22.608	ug/l #	54
10) 1,1-Dichloroethene	4.189	96	72045	21.956	ug/l	99
11) Methyl Iodide	4.427	142	87159	18.891	ug/l	92
12) Methyl Acetate	4.857	43	133760	21.403	ug/l	100
13) Acrolein	4.047	56	37403	99.342	ug/l	98
14) Acrylonitrile	5.557	53	191316	107.891	ug/l	99
15) Acetone	4.288	58	59869	108.005	ug/l	95
16) Carbon Disulfide	4.537	76	190000	21.549	ug/l	98
17) Allyl chloride	4.849	41	120570	21.337	ug/l	95
18) Methylene Chloride	5.101	84	86429	22.165	ug/l	98
19) trans-1,2-Dichloroethene	5.602	96	77046	21.622	ug/l	95
20) Diisopropyl ether	6.495	45	258540	21.419	ug/l	98
21) 1,1-Dichloroethane	6.391	63	146785	21.787	ug/l	99
22) cis-1,2-Dichloroethene	7.329	96	94125	22.039	ug/l	100
23) tert-Butyl Alcohol	5.363	59	79898	109.817	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	267809	21.518	ug/l	98
25) Chloroform	7.820	83	156012	21.670	ug/l	98
26) Cyclohexane	8.099	56	136774	22.040	ug/l #	96
29) 1,1-Dichloropropene	8.225	75	115177	20.895	ug/l	98
30) 2-Butanone	7.335	43	276058	104.300	ug/l	99
31) 2,2-Dichloropropane	7.329	77	140000	21.200	ug/l	99
32) 1,1,1-Trichloroethane	8.019	97	141840	20.681	ug/l	99
33) Carbon Tetrachloride	8.209	117	121455	20.848	ug/l	97
34) Benzene	8.464	78	346265	21.037	ug/l	100
35) Methacrylonitrile	7.638	41	52613	19.946	ug/l	98
36) 1,2-Dichloroethane	8.534	62	123986	20.871	ug/l	99
37) Trichloroethene	9.217	130	88007	21.027	ug/l	96
38) Methylcyclohexane	9.462	83	151792	21.631	ug/l	98
39) 1,2-Dichloropropane	9.491	63	87722	20.900	ug/l	98
40) Dibromomethane	9.580	93	61694	21.024	ug/l	96
41) Bromodichloromethane	9.765	83	122040	20.813	ug/l	96
42) Vinyl Acetate	6.436	43	973949	103.126	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	110120	21.328	ug/l	98
44) Isopropyl Acetate	8.563	43	199157	20.832	ug/l	100
45) 1,4-Dioxane	9.569	88	32654	426.784	ug/l	95
46) Methyl methacrylate	9.561	41	84317	19.511	ug/l	92
47) n-amyl Acetate	12.390	43	165680	20.413	ug/l	98
48) t-1,3-Dichloropropene	10.719	75	137765	20.312	ug/l	100
49) cis-1,3-Dichloropropene	10.191	75	143650	20.340	ug/l	95
50) 1,1,2-Trichloroethane	10.899	97	87820	20.852	ug/l	98
51) Ethyl methacrylate	10.762	69	143235	20.632	ug/l	94
52) 1,3-Dichloropropane	11.047	76	147913	20.875	ug/l	99
53) Dibromochloromethane	11.240	129	90707	20.175	ug/l	99
54) 1,2-Dibromoethane	11.347	107	90085	20.461	ug/l	95
55) 2-Chloroethyl vinyl ether	10.044	63	168930	76.641	ug/l	99
56) Bromoform	12.460	173	62739	19.359	ug/l #	99
58) 4-Methyl-2-Pentanone	10.333	43	574080	105.000	ug/l	98
59) 2-Hexanone	11.087	43	433327	104.951	ug/l	98
61) Tetrachloroethene	10.980	164	78159	22.190	ug/l	94
62) Toluene	10.507	91	403293	21.365	ug/l	98
64) Chlorobenzene	11.773	112	242927	21.219	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	89964	21.122	ug/l	99
66) Ethyl Benzene	11.846	91	453520	21.370	ug/l	99
67) m/p-Xylenes	11.956	106	343290	43.014	ug/l	97
68) o-Xylene	12.283	106	167873	21.007	ug/l	96
69) Styrene	12.296	104	276178	20.855	ug/l	98
70) Isopropylbenzene	12.581	105	449093	21.436	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.830	83	129421	21.076	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	108887m	20.637	ug/l	
73) Bromobenzene	12.862	156	99944	21.046	ug/l	94
74) n-propylbenzene	12.921	91	514240	21.373	ug/l	100
75) 2-Chlorotoluene	13.010	91	315349	21.405	ug/l	97
76) 1,3,5-Trimethylbenzene	13.061	105	372853	21.353	ug/l	100
77) t-1,4-Dichloro-2-butene	12.626	75	39797	19.286	ug/l	98
78) 4-Chlorotoluene	13.106	91	303629	21.029	ug/l	95
79) tert-butylbenzene	13.326	119	325532	21.232	ug/l	100
80) 1,2,4-Trimethylbenzene	13.369	105	367641m	21.448	ug/l	
81) sec-Butylbenzene	13.503	105	457846	21.332	ug/l	99
82) p-Isopropyltoluene	13.619	119	371015	21.193	ug/l	100
83) 1,3-Dichlorobenzene	13.619	146	178230	21.319	ug/l	98
84) 1,4-Dichlorobenzene	13.696	146	172090	21.139	ug/l	98
85) n-Butylbenzene	13.946	91	306331	20.922	ug/l	99
86) Hexachloroethane	14.214	117	66336	20.237	ug/l	93
87) 1,2-Dichlorobenzene	13.991	146	171861	21.514	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.606	75	23084	20.182	ug/l	98
89) 1,2,4-Trichlorobenzene	15.265	180	82529	20.491	ug/l	99
90) Hexachlorobutadiene	15.373	225	46012	21.851	ug/l	97
91) Naphthalene	15.507	128	240925	20.680	ug/l	98
92) 1,2,3-Trichlorobenzene	15.702	180	81345	21.133	ug/l	99

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

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