

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092723\
 Data File : VN079361.D
 Acq On : 27 Sep 2023 12:30
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN092723

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/28/2023
 Supervised By : Semsettin Yesilyurt 09/28/2023

Quant Time: Sep 28 00:46:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 27 23:50:58 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	38722	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	210796	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	191071	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	96515	30.383	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.267%			
60) 4-Bromofluorobenzene	12.853	95	84138	30.894	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.967%			
63) Toluene-d8	10.571	98	283221	30.170	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.567%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	46369	19.404	ug/l	98
3) Chloromethane	2.365	50	58259	19.012	ug/l	97
4) Vinyl Chloride	2.518	62	67313	20.046	ug/l	97
5) Bromomethane	2.959	94	39106	18.569	ug/l	99
6) Chloroethane	3.124	64	44727	18.697	ug/l	96
7) Trichlorofluoromethane	3.500	101	80108	20.132	ug/l	96
8) Diethyl Ether	3.965	74	27767	19.551	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.383	101	43767	19.607	ug/l	78
10) 1,1-Dichloroethene	4.342	96	41769	20.248	ug/l	97
11) Methyl Iodide	4.595	142	48118	20.668	ug/l	99
12) Methyl Acetate	5.030	43	91379	19.465	ug/l	96
13) Acrolein	4.183	56	47355	100.558	ug/l	100
14) Acrylonitrile	5.724	53	118045	96.668	ug/l	100
15) Acetone	4.436	58	37388	93.576	ug/l	89
16) Carbon Disulfide	4.718	76	122634	19.623	ug/l	96
17) Allyl chloride	5.024	41	63222	19.090	ug/l	97
18) Methylene Chloride	5.283	84	51307	19.128	ug/l	96
19) trans-1,2-Dichloroethene	5.794	96	46870	19.438	ug/l	99
20) Diisopropyl ether	6.677	45	159635	20.378	ug/l	96
21) 1,1-Dichloroethane	6.571	63	92983	19.699	ug/l	98
22) cis-1,2-Dichloroethene	7.494	96	54431	19.825	ug/l	95
23) tert-Butyl Alcohol	5.524	59	37149	92.800	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	138682	19.641	ug/l	99
25) Chloroform	7.971	83	94738	19.660	ug/l	87
26) Cyclohexane	8.259	56	71470	19.659	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	68709	19.347	ug/l	99
30) 2-Butanone	7.488	43	164342	93.542	ug/l	99
31) 2,2-Dichloropropane	7.494	77	76985	19.634	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	81799	19.866	ug/l	98
33) Carbon Tetrachloride	8.365	117	70039	19.640	ug/l	98
34) Benzene	8.612	78	209817	19.500	ug/l	98
35) Methacrylonitrile	7.783	41	32668	17.959	ug/l	94
36) 1,2-Dichloroethane	8.677	62	74667	19.159	ug/l	99
37) Trichloroethene	9.359	130	48415	19.146	ug/l	98
38) Methylcyclohexane	9.600	83	68007	19.528	ug/l	99
39) 1,2-Dichloropropane	9.624	63	55639	19.481	ug/l	95
40) Dibromomethane	9.712	93	36485	19.299	ug/l	99
41) Bromodichloromethane	9.888	83	74113	19.251	ug/l	99
42) Vinyl Acetate	6.612	43	469294	98.854	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	70233	20.069	ug/l	98
44) Isopropyl Acetate	8.694	43	109905	19.533	ug/l	99
45) 1,4-Dioxane	9.700	88	17705	381.462	ug/l	94
46) Methyl methacrylate	9.688	41	50899	19.904	ug/l	94
47) n-amyl Acetate	12.500	43	80499	20.104	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	74744	19.115	ug/l	98
49) cis-1,3-Dichloropropene	10.318	75	81915	19.523	ug/l	98
50) 1,1,2-Trichloroethane	11.018	97	50113	19.431	ug/l	95
51) Ethyl methacrylate	10.876	69	67686	19.307	ug/l	98
52) 1,3-Dichloropropane	11.165	76	87155	18.945	ug/l	98
53) Dibromochloromethane	11.365	129	51848	19.862	ug/l	99
54) 1,2-Dibromoethane	11.471	107	47216	18.772	ug/l	96
55) 2-Chloroethyl vinyl ether	10.165	63	141993	104.185	ug/l	99
56) Bromoform	12.582	173	33017	19.853	ug/l	99
58) 4-Methyl-2-Pentanone	10.447	43	334873	97.934	ug/l	100
59) 2-Hexanone	11.200	43	237906	97.250	ug/l	99
61) Tetrachloroethene	11.106	164	41115	19.298	ug/l	95
62) Toluene	10.635	91	222453	19.435	ug/l	98
64) Chlorobenzene	11.894	112	128658	19.585	ug/l	92
65) 1,1,1,2-Tetrachloroethane	11.965	131	48551	19.758	ug/l	94
66) Ethyl Benzene	11.970	91	230040	19.871	ug/l	97
67) m/p-Xylenes	12.076	106	175141	40.917	ug/l	96
68) o-Xylene	12.400	106	81197	19.712	ug/l	97
69) Styrene	12.418	104	133264	20.538	ug/l	98
70) Isopropylbenzene	12.700	105	212802	20.307	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	70752	18.844	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	55242m	16.485	ug/l	
73) Bromobenzene	12.982	156	47982	19.556	ug/l	97
74) n-propylbenzene	13.041	91	253237	20.413	ug/l	100
75) 2-Chlorotoluene	13.129	91	153277	20.235	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	177850	20.421	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	20723	20.826	ug/l	92
78) 4-Chlorotoluene	13.223	91	144378	20.512	ug/l	98
79) tert-butylbenzene	13.441	119	142272	19.718	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	172458m	20.242	ug/l	
81) sec-Butylbenzene	13.617	105	205995	19.899	ug/l	100
82) p-Isopropyltoluene	13.735	119	159461	19.430	ug/l	100
83) 1,3-Dichlorobenzene	13.735	146	83839	20.206	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	86202	22.166	ug/l	97
85) n-Butylbenzene	14.059	91	137056	21.782	ug/l	99
86) Hexachloroethane	14.335	117	35720	21.008	ug/l	97
87) 1,2-Dichlorobenzene	14.112	146	89671	21.881	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	13268	22.906	ug/l	95
89) 1,2,4-Trichlorobenzene	15.841	180	27389	18.101	ug/l	94
90) Hexachlorobutadiene	15.506	225	19139	17.546	ug/l	97
91) Naphthalene	15.647	128	59554	17.355	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	27389	18.100	ug/l	94

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

