

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052323\
 Data File : VX035806.D
 Acq On : 23 May 2023 10:29
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/25/2023
 Supervised By : Mahesh Dadoda 05/25/2023

Quant Time: May 23 11:19:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:17:24 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	36474	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	214369	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	191147	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	92410	27.044	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	90.133%#		
60) 4-Bromofluorobenzene	11.079	95	96940	26.027	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	86.767%		
63) Toluene-d8	8.646	98	255936	37.180	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	123.933%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	209073	68.464	ug/l	99
3) Chloromethane	1.294	50	231346	58.029	ug/l	96
4) Vinyl Chloride	1.373	62	222399	56.671	ug/l	97
5) Bromomethane	1.617	94	140729	54.147	ug/l	98
6) Chloroethane	1.690	64	143861	56.106	ug/l	96
7) Trichlorofluoromethane	1.885	101	362024	58.459	ug/l	100
8) Diethyl Ether	2.129	74	132951	57.942	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.324	101	196022	62.177	ug/l	99
10) 1,1-Dichloroethene	2.318	96	190039	58.470	ug/l	99
11) Methyl Iodide	2.452	142	240033	57.907	ug/l	95
12) Methyl Acetate	2.708	43	529458	70.865	ug/l	100
13) Acrolein	2.239	56	196404	239.950	ug/l	99
14) Acrylonitrile	3.068	53	645720	319.243	ug/l	99
15) Acetone	2.404	58	177983	318.107	ug/l	97
16) Carbon Disulfide	2.513	76	428778	52.210	ug/l	99
17) Allyl chloride	2.660	41	389839	61.387	ug/l	98
18) Methylene Chloride	2.788	84	235725	60.841	ug/l	98
19) trans-1,2-Dichloroethene	3.092	96	209356	58.159	ug/l	96
20) Diisopropyl ether	3.757	45	802494	61.462	ug/l	98
21) 1,1-Dichloroethane	3.605	63	429461	61.630	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	261860	62.319	ug/l	98
23) tert-Butyl Alcohol	3.086	59	234359m	261.623	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	747114	60.994	ug/l	97
25) Chloroform	5.092	83	434579	61.061	ug/l	99
26) Cyclohexane	5.470	56	347666	58.536	ug/l #	96
29) 1,1-Dichloropropene	5.690	75	310375	68.497	ug/l	100
30) 2-Butanone	4.568	43	949639	365.675	ug/l	100
31) 2,2-Dichloropropane	4.476	77	340705	73.485	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	362061	68.103	ug/l	99
33) Carbon Tetrachloride	5.677	117	299269	68.516	ug/l	96
34) Benzene	6.037	78	921874	69.162	ug/l	99
35) Methacrylonitrile	4.921	41	208256	73.493	ug/l	97
36) 1,2-Dichloroethane	6.086	62	360762	68.598	ug/l	100
37) Trichloroethene	7.122	130	233295	68.602	ug/l	94
38) Methylcyclohexane	7.378	83	370811	76.953	ug/l	99
39) 1,2-Dichloropropane	7.427	63	249543	71.551	ug/l	99
40) Dibromomethane	7.580	93	172600	72.250	ug/l	98
41) Bromodichloromethane	7.823	83	326269	72.564	ug/l	99
42) Vinyl Acetate	3.720	43	2882668	348.504	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	363960	73.100	ug/l	99
44) Isopropyl Acetate	6.342	43	613714	72.881	ug/l	99
45) 1,4-Dioxane	7.744	88	111403	1335.259	ug/l #	82
46) Methyl methacrylate	7.689	41	301166	73.266	ug/l	98
47) n-amyl Acetate	10.841	43	527367	72.082	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	375068	76.311	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	398830	73.830	ug/l	98
50) 1,1,2-Trichloroethane	9.152	97	241995	72.056	ug/l	97
51) Ethyl methacrylate	9.116	69	393381	73.049	ug/l	99
52) 1,3-Dichloropropane	9.311	76	418051	70.718	ug/l	99
53) Dibromochloromethane	9.524	129	244089	74.146	ug/l	99
54) 1,2-Dibromoethane	9.610	107	253644	70.777	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	1011923	355.116	ug/l	99
56) Bromoform	10.798	173	163448	72.225	ug/l	97
58) 4-Methyl-2-Pentanone	8.579	43	1828754	431.835	ug/l	100
59) 2-Hexanone	9.433	43	1349758	421.265	ug/l	100
61) Tetrachloroethene	9.274	164	187502	76.929	ug/l	98
62) Toluene	8.720	91	973591	81.258	ug/l	99
64) Chlorobenzene	10.079	112	611073	82.246	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.164	131	226290	85.777	ug/l	98
66) Ethyl Benzene	10.195	91	1115424	83.698	ug/l	99
67) m/p-Xylenes	10.305	106	832460	163.343	ug/l	97
68) o-Xylene	10.640	106	414247	82.120	ug/l	99
69) Styrene	10.652	104	702491	84.277	ug/l	99
70) Isopropylbenzene	10.963	105	1090702	83.910	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	367170	84.873	ug/l	99
72) 1,2,3-Trichloropropane	11.237	75	340147m	87.794	ug/l	
73) Bromobenzene	11.195	156	257428	82.083	ug/l	95
74) n-propylbenzene	11.304	91	1319447	86.865	ug/l	100
75) 2-Chlorotoluene	11.365	91	791550	83.486	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	925731	84.348	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	115805	96.378	ug/l	93
78) 4-Chlorotoluene	11.457	91	903941	82.897	ug/l	100
79) tert-butylbenzene	11.713	119	908629	86.785	ug/l	99
80) 1,2,4-Trimethylbenzene	11.749	105	925164	84.433	ug/l	99
81) sec-Butylbenzene	11.890	105	1170500	92.077	ug/l	100
82) p-Isopropyltoluene	12.012	119	971547	90.415	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	492005	82.962	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	485963	81.390	ug/l	98
85) n-Butylbenzene	12.329	91	898664	97.196	ug/l	99
86) Hexachloroethane	12.542	117	163351	93.015	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	463499	79.677	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.944	75	77343	82.553	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	298868	85.969	ug/l	99
90) Hexachlorobutadiene	13.725	225	115100	88.519	ug/l	96
91) Naphthalene	13.774	128	1031044	84.438	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	295079	85.295	ug/l	99

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

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