

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010824\
 Data File : VX039665.D
 Acq On : 08 Jan 2024 16:44
 Operator : JC/MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC010

Quant Time: Jan 09 06:03:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Jan 09 05:58:07 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/09/2024
 Supervised By : Mahesh Dadoda 01/09/2024

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

Internal Standards						
1) Bromochloromethane	4.891	128	8054	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	65234	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	79230	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	38623	30.589	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.967%			
60) 4-Bromofluorobenzene	11.079	95	50271	28.767	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.900%			
63) Toluene-d8	8.647	98	100023	30.706	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.367%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	13073	9.608	ug/l	93
3) Chloromethane	1.294	50	14438	9.551	ug/l	96
4) Vinyl Chloride	1.374	62	13417	9.094	ug/l	95
5) Bromomethane	1.593	94	6920	9.815	ug/l	96
6) Chloroethane	1.666	64	7904	11.797	ug/l	92
7) Trichlorofluoromethane	1.874	101	19032	9.135	ug/l	97
8) Diethyl Ether	2.130	74	7225	9.268	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.325	101	11870	9.302	ug/l	96
10) 1,1-Dichloroethene	2.313	96	11058	9.044	ug/l	94
11) Methyl Iodide	2.447	142	10510	7.844	ug/l	99
12) Methyl Acetate	2.703	43	18759	9.526	ug/l	98
13) Acrolein	2.233	56	12075	41.099	ug/l	98
14) Acrylonitrile	3.062	53	42864	47.467	ug/l	98
15) Acetone	2.380	58	13762	48.315	ug/l	94
16) Carbon Disulfide	2.502	76	29492	8.947	ug/l #	94
17) Allyl chloride	2.660	41	20916	8.675	ug/l	96
18) Methylene Chloride	2.782	84	13187	9.226	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	12173	9.383	ug/l	90
20) Diisopropyl ether	3.751	45	43707	9.287	ug/l #	71
21) 1,1-Dichloroethane	3.605	63	24143	9.188	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	13680	9.021	ug/l	96
23) tert-Butyl Alcohol	2.989	59	21922	51.543	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	40521	9.042	ug/l	97
25) Chloroform	5.093	83	23513	9.118	ug/l	98
26) Cyclohexane	5.464	56	20941	9.187	ug/l #	96
29) 1,1-Dichloropropene	5.684	75	16815	8.982	ug/l	96
30) 2-Butanone	4.550	43	62535	46.575	ug/l	98
31) 2,2-Dichloropropane	4.471	77	18559	8.917	ug/l #	81
32) 1,1,1-Trichloroethane	5.379	97	18982	8.773	ug/l	97
33) Carbon Tetrachloride	5.672	117	14405	8.445	ug/l	92
34) Benzene	6.031	78	50938	9.172	ug/l	95
35) Methacrylonitrile	4.922	41	11295	8.743	ug/l	97
36) 1,2-Dichloroethane	6.080	62	19728	9.059	ug/l	96
37) Trichloroethene	7.123	130	12107	9.176	ug/l	98
38) Methylcyclohexane	7.373	83	20734	9.053	ug/l	98
39) 1,2-Dichloropropane	7.428	63	13463	8.997	ug/l	99
40) Dibromomethane	7.580	93	9093	8.997	ug/l	96
41) Bromodichloromethane	7.818	83	15647	8.354	ug/l	98
42) Vinyl Acetate	3.721	43	199828	45.013	ug/l	100

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43) Ethyl Acetate	4.708	43	23381	9.291	ug/l	98
44) Isopropyl Acetate	6.336	43	34392	8.840	ug/l	97
45) 1,4-Dioxane	7.665	88	7233	192.836	ug/l	99
46) Methyl methacrylate	7.696	41	16361	8.756	ug/l	97
47) n-amyl Acetate	10.842	43	28166	8.290	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	16648	8.259	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	18942	8.580	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	12498	9.021	ug/l	98
51) Ethyl methacrylate	9.116	69	19783	8.548	ug/l	97
52) 1,3-Dichloropropane	9.305	76	21743	9.094	ug/l	99
53) Dibromochloromethane	9.519	129	10567	8.195	ug/l	100
54) 1,2-Dibromoethane	9.610	107	13171	9.071	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	51274	45.530	ug/l	98
56) Bromoform	10.799	173	6739	7.760	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	121944	46.791	ug/l	99
59) 2-Hexanone	9.433	43	96476	45.732	ug/l	96
61) Tetrachloroethene	9.269	164	9511	9.062	ug/l	90
62) Toluene	8.714	91	52782	8.986	ug/l	99
64) Chlorobenzene	10.079	112	29826	8.734	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	10017	8.251	ug/l	99
66) Ethyl Benzene	10.195	91	56287	8.727	ug/l	95
67) m/p-Xylenes	10.299	106	41568	17.644	ug/l	97
68) o-Xylene	10.640	106	21366	9.034	ug/l	96
69) Styrene	10.653	104	32243	8.527	ug/l	98
70) Isopropylbenzene	10.963	105	55781	8.936	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	20999	8.758	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	17883m	8.744	ug/l	
73) Bromobenzene	11.195	156	12024	8.724	ug/l	98
74) n-propylbenzene	11.305	91	63201	8.491	ug/l	100
75) 2-Chlorotoluene	11.366	91	41843	9.049	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	47345	8.878	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	4642	7.053	ug/l	70
78) 4-Chlorotoluene	11.451	91	43892	8.558	ug/l	99
79) tert-butylbenzene	11.713	119	44076	8.722	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	46006	8.693	ug/l	97
81) sec-Butylbenzene	11.890	105	56021	8.626	ug/l	99
82) p-Isopropyltoluene	12.006	119	44006	8.514	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	22345	8.674	ug/l	96
84) 1,4-Dichlorobenzene	12.043	146	21864	8.557	ug/l	99
85) n-Butylbenzene	12.329	91	36649	7.747	ug/l	98
86) Hexachloroethane	12.536	117	6740	7.622	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	22534	8.729	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	4444	7.740	ug/l	91
89) 1,2,4-Trichlorobenzene	13.585	180	11478	7.886	ug/l	95
90) Hexachlorobutadiene	13.725	225	5399	8.473	ug/l	96
91) Naphthalene	13.774	128	46053	8.110	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	12455	8.265	ug/l	99

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

