

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052323\
 Data File : VX035811.D
 Acq On : 23 May 2023 13:34
 Operator : JC/MD
 Sample : VX0523WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0523WBSD01

Manual Integrations
 APPROVED

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

Quant Time: May 24 05:47:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	39256	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	222420	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	199820	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	95375	29.240	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.467%		
60) 4-Bromofluorobenzene	11.079	95	99118	29.562	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.533%		
63) Toluene-d8	8.647	98	269674	30.528	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.767%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	44510	22.173	ug/l	98
3) Chloromethane	1.294	50	46965	19.070	ug/l	95
4) Vinyl Chloride	1.374	62	44877	19.391	ug/l	98
5) Bromomethane	1.618	94	28335	18.199	ug/l	99
6) Chloroethane	1.691	64	27548	18.881	ug/l	99
7) Trichlorofluoromethane	1.886	101	74266	21.167	ug/l	97
8) Diethyl Ether	2.130	74	28887	19.803	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	42696	22.619	ug/l	100
10) 1,1-Dichloroethene	2.319	96	39059	19.849	ug/l	93
11) Methyl Iodide	2.453	142	43457	18.281	ug/l	93
12) Methyl Acetate	2.709	43	114320	20.560	ug/l	99
13) Acrolein	2.239	56	42640	97.010	ug/l	100
14) Acrylonitrile	3.075	53	141490	101.507	ug/l	100
15) Acetone	2.404	58	42514	101.969	ug/l	97
16) Carbon Disulfide	2.514	76	79670	18.655	ug/l	99
17) Allyl chloride	2.660	41	77209	19.448	ug/l	97
18) Methylene Chloride	2.788	84	49775	19.423	ug/l	90
19) trans-1,2-Dichloroethene	3.093	96	44750	20.173	ug/l	99
20) Diisopropyl ether	3.757	45	172991	20.185	ug/l	95
21) 1,1-Dichloroethane	3.605	63	87396	19.455	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	54349	19.800	ug/l	99
23) tert-Butyl Alcohol	3.087	59	56286m	110.622	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	159653	20.130	ug/l	94
25) Chloroform	5.093	83	89217	19.354	ug/l	94
26) Cyclohexane	5.464	56	75030	22.084	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	62725	20.252	ug/l	99
30) 2-Butanone	4.568	43	209189	103.175	ug/l	100
31) 2,2-Dichloropropane	4.471	77	66713	20.048	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	72133	19.943	ug/l	99
33) Carbon Tetrachloride	5.678	117	56202	19.678	ug/l	99
34) Benzene	6.031	78	196313	20.091	ug/l	97
35) Methacrylonitrile	4.916	41	41939	19.385	ug/l	97
36) 1,2-Dichloroethane	6.080	62	76049	19.999	ug/l	99
37) Trichloroethene	7.123	130	48486	19.741	ug/l	100
38) Methylcyclohexane	7.379	83	78583	23.135	ug/l	98
39) 1,2-Dichloropropane	7.428	63	52086	19.804	ug/l	93
40) Dibromomethane	7.580	93	34916	19.629	ug/l	98
41) Bromodichloromethane	7.824	83	60981	18.964	ug/l #	99
42) Vinyl Acetate	3.721	43	601276	100.961	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	79504	20.561	ug/l	98
44) Isopropyl Acetate	6.336	43	127818	20.279	ug/l	99
45) 1,4-Dioxane	7.745	88	25760m	430.300	ug/l	
46) Methyl methacrylate	7.690	41	60535	19.877	ug/l	96
47) n-amyl Acetate	10.842	43	105927	20.008	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	67442	18.957	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	76847	19.574	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	51369	20.185	ug/l	97
51) Ethyl methacrylate	9.116	69	77999	19.883	ug/l	99
52) 1,3-Dichloropropane	9.305	76	88639	19.987	ug/l	99
53) Dibromochloromethane	9.519	129	44558	19.092	ug/l	98
54) 1,2-Dibromoethane	9.610	107	51494	19.476	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	205400	98.664	ug/l	99
56) Bromoform	10.799	173	27104	17.915	ug/l	96
58) 4-Methyl-2-Pentanone	8.574	43	399687	102.979	ug/l	99
59) 2-Hexanone	9.433	43	305687	104.672	ug/l	99
61) Tetrachloroethene	9.275	164	40050	20.812	ug/l	97
62) Toluene	8.714	91	207263	20.142	ug/l	99
64) Chlorobenzene	10.079	112	131496	20.177	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	43940	19.286	ug/l	97
66) Ethyl Benzene	10.195	91	234912	20.412	ug/l	99
67) m/p-Xylenes	10.299	106	179553	41.219	ug/l	97
68) o-Xylene	10.640	106	89708	20.588	ug/l	98
69) Styrene	10.653	104	145766	20.270	ug/l	98
70) Isopropylbenzene	10.963	105	231875	20.849	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	80033	20.317	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	73988m	21.565	ug/l	
73) Bromobenzene	11.195	156	54404	20.135	ug/l	95
74) n-propylbenzene	11.305	91	276912	20.888	ug/l	99
75) 2-Chlorotoluene	11.366	91	164690	20.225	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	195120	20.657	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	18384	17.763	ug/l	93
78) 4-Chlorotoluene	11.451	91	192719	20.774	ug/l	100
79) tert-butylbenzene	11.713	119	189329	20.763	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	195182	20.561	ug/l	100
81) sec-Butylbenzene	11.890	105	243397	21.141	ug/l	99
82) p-Isopropyltoluene	12.006	119	202550	21.147	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	106167	20.761	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	107165	20.878	ug/l	99
85) n-Butylbenzene	12.329	91	181345	21.282	ug/l	100
86) Hexachloroethane	12.536	117	27900	18.498	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	105575	21.071	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	14490	19.246	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	63556	21.165	ug/l	100
90) Hexachlorobutadiene	13.725	225	24954	22.543	ug/l	98
91) Naphthalene	13.774	128	215861	20.773	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	61816	20.618	ug/l	99

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

