

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052323\
 Data File : VX035810.D
 Acq On : 23 May 2023 13:08
 Operator : JC/MD
 Sample : VX0523WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0523WBS01

Quant Time: May 24 05:46:50 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

Manual Integrations APPROVED

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

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

Internal Standards						
1) Bromochloromethane	4.897	128	40223	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	233627	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	209058	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	98362	29.431	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.100%		
60) 4-Bromofluorobenzene	11.079	95	104193	29.702	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.000%		
63) Toluene-d8	8.647	98	279606	30.254	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.833%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	46219	22.471	ug/l	100
3) Chloromethane	1.294	50	49712	19.701	ug/l	89
4) Vinyl Chloride	1.374	62	48116	20.290	ug/l	97
5) Bromomethane	1.618	94	30294	18.990	ug/l	98
6) Chloroethane	1.691	64	29071	19.445	ug/l	98
7) Trichlorofluoromethane	1.886	101	77946	21.682	ug/l	99
8) Diethyl Ether	2.130	74	29059	19.442	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	45816	23.688	ug/l	99
10) 1,1-Dichloroethene	2.319	96	41751	20.707	ug/l	98
11) Methyl Iodide	2.453	142	46675	19.162	ug/l	95
12) Methyl Acetate	2.709	43	112316	19.714	ug/l	100
13) Acrolein	2.246	56	43782	97.213	ug/l	97
14) Acrylonitrile	3.075	53	140652	98.480	ug/l	100
15) Acetone	2.404	58	46199	108.144	ug/l	99
16) Carbon Disulfide	2.514	76	86042	19.663	ug/l	100
17) Allyl chloride	2.666	41	82781	20.351	ug/l	99
18) Methylene Chloride	2.788	84	51996	19.802	ug/l	99
19) trans-1,2-Dichloroethene	3.087	96	47479	20.889	ug/l	96
20) Diisopropyl ether	3.757	45	179043	20.389	ug/l	97
21) 1,1-Dichloroethane	3.611	63	92850	20.172	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	57911	20.590	ug/l	96
23) tert-Butyl Alcohol	3.075	59	53894m	103.375	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	161478	19.870	ug/l	94
25) Chloroform	5.086	83	93708	19.840	ug/l	99
26) Cyclohexane	5.464	56	77557	22.279	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	68060	20.920	ug/l	98
30) 2-Butanone	4.568	43	215756	101.309	ug/l	99
31) 2,2-Dichloropropane	4.471	77	71921	20.577	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	76158	20.046	ug/l	100
33) Carbon Tetrachloride	5.672	117	59723	19.908	ug/l	99
34) Benzene	6.038	78	203370	19.815	ug/l	97
35) Methacrylonitrile	4.922	41	43509	19.146	ug/l	97
36) 1,2-Dichloroethane	6.080	62	75589	18.924	ug/l	99
37) Trichloroethene	7.123	130	52304	20.274	ug/l	100
38) Methylcyclohexane	7.379	83	83070	23.283	ug/l	100
39) 1,2-Dichloropropane	7.428	63	53377	19.322	ug/l	99
40) Dibromomethane	7.580	93	36172	19.360	ug/l	98
41) Bromodichloromethane	7.818	83	65290	19.330	ug/l #	94
42) Vinyl Acetate	3.721	43	630212	100.743	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	77221	19.013	ug/l #	82
44) Isopropyl Acetate	6.336	43	129829	19.610	ug/l	98
45) 1,4-Dioxane	7.745	88	25053m	398.415	ug/l	
46) Methyl methacrylate	7.690	41	60928	19.047	ug/l	97
47) n-amyl Acetate	10.842	43	108986	19.598	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	71006	19.002	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	79532	19.286	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	53156	19.885	ug/l	99
51) Ethyl methacrylate	9.116	69	80124	19.445	ug/l	99
52) 1,3-Dichloropropane	9.305	76	92195	19.791	ug/l	100
53) Dibromochloromethane	9.519	129	44991	18.353	ug/l	100
54) 1,2-Dibromoethane	9.610	107	53587	19.296	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	205484	93.969	ug/l	99
56) Bromoform	10.799	173	28452	17.904	ug/l	95
58) 4-Methyl-2-Pentanone	8.574	43	401883	98.970	ug/l	99
59) 2-Hexanone	9.433	43	307995	100.802	ug/l	100
61) Tetrachloroethene	9.275	164	41948	20.835	ug/l	97
62) Toluene	8.714	91	218034	20.252	ug/l	100
64) Chlorobenzene	10.079	112	135744	19.909	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	46183	19.374	ug/l	98
66) Ethyl Benzene	10.195	91	245297	20.373	ug/l	98
67) m/p-Xylenes	10.299	106	187752	41.197	ug/l	96
68) o-Xylene	10.640	106	91149	19.995	ug/l	100
69) Styrene	10.653	104	149202	19.831	ug/l	99
70) Isopropylbenzene	10.963	105	238929	20.534	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	81356	19.740	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	74573m	20.775	ug/l	
73) Bromobenzene	11.195	156	55556	19.653	ug/l	95
74) n-propylbenzene	11.305	91	288351	20.790	ug/l	100
75) 2-Chlorotoluene	11.366	91	173771	20.397	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	205031	20.747	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	18965	17.514	ug/l	93
78) 4-Chlorotoluene	11.451	91	195846	20.179	ug/l	98
79) tert-butylbenzene	11.713	119	198214	20.776	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	201635	20.303	ug/l	100
81) sec-Butylbenzene	11.890	105	252375	20.952	ug/l	99
82) p-Isopropyltoluene	12.006	119	209207	20.877	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	107822	20.153	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	110407	20.559	ug/l	100
85) n-Butylbenzene	12.329	91	188915	21.191	ug/l	100
86) Hexachloroethane	12.536	117	28360	17.972	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	107738	20.552	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	14718	18.685	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	66395	21.134	ug/l	99
90) Hexachlorobutadiene	13.725	225	25640	22.139	ug/l	95
91) Naphthalene	13.774	128	222706	20.485	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	66370	21.159	ug/l	97

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

