

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060723\
 Data File : VX036053.D
 Acq On : 07 Jun 2023 11:47
 Operator : JC/MD
 Sample : VX0607WBSD02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0607WBSD02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/08/2023
 Supervised By : Mahesh Dadoda 06/08/2023

Quant Time: Jun 08 07:21:46 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	36847	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	199645	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	185063	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	97751	31.928	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.433%			
60) 4-Bromofluorobenzene	11.079	95	100246	32.282	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 107.600%			
63) Toluene-d8	8.647	98	247338	30.232	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.767%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	44583	23.661	ug/l	100
3) Chloromethane	1.294	50	42202	18.257	ug/l	96
4) Vinyl Chloride	1.374	62	40045	18.434	ug/l	98
5) Bromomethane	1.618	94	26042	17.820	ug/l	93
6) Chloroethane	1.691	64	25769	18.816	ug/l	100
7) Trichlorofluoromethane	1.886	101	65069	19.758	ug/l	96
8) Diethyl Ether	2.130	74	25705	18.774	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	40728	22.987	ug/l	97
10) 1,1-Dichloroethene	2.319	96	35217	19.067	ug/l	94
11) Methyl Iodide	2.453	142	39647	17.768	ug/l	95
12) Methyl Acetate	2.709	43	109952	21.067	ug/l	99
13) Acrolein	2.246	56	50020	121.240	ug/l	100
14) Acrylonitrile	3.069	53	134586	102.866	ug/l	99
15) Acetone	2.404	58	39245	100.282	ug/l	89
16) Carbon Disulfide	2.514	76	75901	18.935	ug/l	97
17) Allyl chloride	2.666	41	72004	19.323	ug/l	98
18) Methylene Chloride	2.788	84	44944	18.685	ug/l	100
19) trans-1,2-Dichloroethene	3.093	96	39931	19.177	ug/l	90
20) Diisopropyl ether	3.757	45	155589	19.341	ug/l	100
21) 1,1-Dichloroethane	3.605	63	84030	19.929	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	48764	18.927	ug/l	98
23) tert-Butyl Alcohol	3.026	59	55009m	115.181	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	152508	20.486	ug/l	97
25) Chloroform	5.093	83	86226	19.928	ug/l	95
26) Cyclohexane	5.464	56	65561	20.559	ug/l #	96
29) 1,1-Dichloropropene	5.684	75	59989	21.578	ug/l	98
30) 2-Butanone	4.568	43	192586	105.822	ug/l	99
31) 2,2-Dichloropropane	4.477	77	67010	22.435	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	72684	22.388	ug/l	99
33) Carbon Tetrachloride	5.678	117	58960	22.998	ug/l	94
34) Benzene	6.038	78	174975	19.950	ug/l	100
35) Methacrylonitrile	4.922	41	41894	21.573	ug/l	99
36) 1,2-Dichloroethane	6.080	62	77353	22.662	ug/l	98
37) Trichloroethene	7.123	130	45523	20.649	ug/l	96
38) Methylcyclohexane	7.379	83	67486	22.134	ug/l	97
39) 1,2-Dichloropropane	7.428	63	47241	20.011	ug/l	98
40) Dibromomethane	7.580	93	32890	20.599	ug/l	98
41) Bromodichloromethane	7.818	83	62029	21.490	ug/l #	98
42) Vinyl Acetate	3.721	43	549546	102.801	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	72513	20.893	ug/l	100
44) Isopropyl Acetate	6.336	43	115675	20.446	ug/l	100
45) 1,4-Dioxane	7.732	88	16804	312.718	ug/l #	39
46) Methyl methacrylate	7.690	41	57417	21.004	ug/l	96
47) n-amyl Acetate	10.842	43	95643	20.127	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	65216	20.423	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	71947	20.416	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	47670	20.869	ug/l	99
51) Ethyl methacrylate	9.116	69	74011	21.019	ug/l	99
52) 1,3-Dichloropropane	9.305	76	84514	21.231	ug/l	98
53) Dibromochloromethane	9.519	129	44364	21.178	ug/l	99
54) 1,2-Dibromoethane	9.610	107	49404	20.817	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	190671	102.037	ug/l	99
56) Bromoform	10.799	173	29028	21.376	ug/l	96
58) 4-Methyl-2-Pentanone	8.574	43	385676	107.293	ug/l	99
59) 2-Hexanone	9.427	43	291424	107.745	ug/l	99
61) Tetrachloroethene	9.275	164	37719	21.163	ug/l	98
62) Toluene	8.714	91	191060	20.048	ug/l	98
64) Chlorobenzene	10.079	112	124412	20.612	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	43724	20.721	ug/l	98
66) Ethyl Benzene	10.189	91	220606	20.698	ug/l	99
67) m/p-Xylenes	10.299	106	169079	41.910	ug/l	99
68) o-Xylene	10.640	106	84195	20.864	ug/l	100
69) Styrene	10.653	104	139529	20.950	ug/l	98
70) Isopropylbenzene	10.963	105	220020	21.361	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	77549	21.256	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	67338m	21.192	ug/l	
73) Bromobenzene	11.195	156	51103	20.421	ug/l	94
74) n-propylbenzene	11.305	91	255046	20.773	ug/l	100
75) 2-Chlorotoluene	11.360	91	160013	21.217	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	187972	21.487	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	18356	19.150	ug/l	99
78) 4-Chlorotoluene	11.451	91	186666	21.726	ug/l	98
79) tert-butylbenzene	11.713	119	177786	21.051	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	186166	21.175	ug/l	98
81) sec-Butylbenzene	11.890	105	220500	20.680	ug/l	99
82) p-Isopropyltoluene	12.006	119	187203	21.104	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	98445	20.786	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	96382	20.275	ug/l	98
85) n-Butylbenzene	12.329	91	162307	20.567	ug/l	100
86) Hexachloroethane	12.536	117	26863	19.230	ug/l	92
87) 1,2-Dichlorobenzene	12.335	146	96756	20.850	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	16041	23.005	ug/l	86
89) 1,2,4-Trichlorobenzene	13.585	180	55544	19.972	ug/l	98
90) Hexachlorobutadiene	13.725	225	22974	22.409	ug/l	96
91) Naphthalene	13.774	128	197045	20.475	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	55883	20.126	ug/l	98

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

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