

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010923\
 Data File : VX033662.D
 Acq On : 09 Jan 2023 14:51
 Operator : JC/MD
 Sample : VX0109WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0109WBSD01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/10/2023
 Supervised By : Mahesh Dadoda 01/11/2023

Quant Time: Jan 10 00:46:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 06:16:21 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	14302	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	99794	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	111121	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	36531	31.545	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.167%			
60) 4-Bromofluorobenzene	11.079	95	61725	30.820	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.733%			
63) Toluene-d8	8.647	98	108492	30.507	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.700%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	30815	20.602	ug/l	99
3) Chloromethane	1.294	50	34289	21.387	ug/l	98
4) Vinyl Chloride	1.374	62	34556	23.861	ug/l	99
5) Bromomethane	1.617	94	15189	18.935	ug/l	96
6) Chloroethane	1.691	64	14281	16.838	ug/l	97
7) Trichlorofluoromethane	1.892	101	41957	18.774	ug/l	100
8) Diethyl Ether	2.130	74	12469	17.136	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	20982	18.106	ug/l	99
10) 1,1-Dichloroethene	2.319	96	19375	17.733	ug/l	98
11) Methyl Iodide	2.453	142	31308	16.669	ug/l	98
12) Methyl Acetate	2.709	43	47933	20.956	ug/l	100
13) Acrolein	2.239	56	22632	91.766	ug/l	98
14) Acrylonitrile	3.068	53	79032	104.774	ug/l	99
15) Acetone	2.398	58	15203	89.060	ug/l	90
16) Carbon Disulfide	2.514	76	76286	23.995	ug/l	98
17) Allyl chloride	2.666	41	53345	22.951	ug/l	94
18) Methylene Chloride	2.788	84	35584	23.256	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	30734	20.938	ug/l	94
20) Diisopropyl ether	3.757	45	107938	21.516	ug/l	97
21) 1,1-Dichloroethane	3.605	63	56654	20.593	ug/l	97
22) cis-1,2-Dichloroethene	4.483	96	36426	20.867	ug/l	99
23) tert-Butyl Alcohol	3.032	59	29228m	98.100	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	97229	20.840	ug/l	100
25) Chloroform	5.092	83	59738	21.393	ug/l	91
26) Cyclohexane	5.470	56	54074	21.177	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	44513	20.635	ug/l	99
30) 2-Butanone	4.568	43	112244	99.641	ug/l #	98
31) 2,2-Dichloropropane	4.471	77	43497	23.420	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	52013	20.653	ug/l	99
33) Carbon Tetrachloride	5.672	117	49475	21.765	ug/l	96
34) Benzene	6.031	78	127867	20.404	ug/l	97
35) Methacrylonitrile	4.916	41	25483	19.853	ug/l	96
36) 1,2-Dichloroethane	6.086	62	47662	20.922	ug/l	99
37) Trichloroethene	7.123	130	35595	19.695	ug/l	95
38) Methylcyclohexane	7.379	83	56007	20.880	ug/l	100
39) 1,2-Dichloropropane	7.427	63	32719	20.430	ug/l	98
40) Dibromomethane	7.580	93	23128	20.549	ug/l	97
41) Bromodichloromethane	7.818	83	47267	21.652	ug/l	98
42) Vinyl Acetate	3.721	43	406965	101.094	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	46390	20.098	ug/l	99
44) Isopropyl Acetate	6.336	43	69607	19.221	ug/l	99
45) 1,4-Dioxane	7.738	88	15804m	400.021	ug/l	
46) Methyl methacrylate	7.690	41	35750	19.498	ug/l	98
47) n-amyl Acetate	10.841	43	60563	19.643	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	46691	20.931	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	52445	21.169	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	33005	20.202	ug/l	97
51) Ethyl methacrylate	9.116	69	47652	19.559	ug/l	99
52) 1,3-Dichloropropane	9.305	76	55748	20.373	ug/l	99
53) Dibromochloromethane	9.518	129	38877	21.832	ug/l	98
54) 1,2-Dibromoethane	9.610	107	35447	20.301	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	118296	100.440	ug/l	99
56) Bromoform	10.799	173	31062	22.719	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	226598	102.656	ug/l	100
59) 2-Hexanone	9.427	43	165369	101.796	ug/l	99
61) Tetrachloroethene	9.269	164	32963	20.560	ug/l	98
62) Toluene	8.714	91	145103	20.744	ug/l	99
64) Chlorobenzene	10.079	112	90877	20.171	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	34962	20.619	ug/l	98
66) Ethyl Benzene	10.195	91	162075	20.777	ug/l	99
67) m/p-Xylenes	10.299	106	128201	41.640	ug/l	99
68) o-Xylene	10.640	106	62156	20.540	ug/l	98
69) Styrene	10.652	104	103887	20.742	ug/l	99
70) Isopropylbenzene	10.963	105	166058	21.189	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	50004	21.190	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	39861m	18.647	ug/l	
73) Bromobenzene	11.195	156	42153	20.324	ug/l	99
74) n-propylbenzene	11.305	91	192109	21.591	ug/l	99
75) 2-Chlorotoluene	11.366	91	113799	21.383	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	138793	21.331	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	14826	23.182	ug/l	90
78) 4-Chlorotoluene	11.451	91	128107	21.465	ug/l	99
79) tert-butylbenzene	11.713	119	144018	21.582	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	139593	21.716	ug/l	100
81) sec-Butylbenzene	11.890	105	175331	21.714	ug/l	100
82) p-Isopropyltoluene	12.006	119	150247	21.574	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	79716	21.054	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	79282	21.002	ug/l	99
85) n-Butylbenzene	12.329	91	127347	22.492	ug/l	100
86) Hexachloroethane	12.536	117	27190	23.999	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	77019	21.117	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	10170	20.759	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	51301	20.451	ug/l	97
90) Hexachlorobutadiene	13.725	225	25802	21.452	ug/l	98
91) Naphthalene	13.774	128	153652	20.860	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	52455	20.841	ug/l	100

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

