

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010923\
 Data File : VX033658.D
 Acq On : 09 Jan 2023 12:42
 Operator : JC/MD
 Sample : VX0109WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0109WBS02

Manual Integrations
 APPROVED

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

Quant Time: Jan 10 00:45:40 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	4.897	128	12573	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	88961	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	100086	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	33724	33.126	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 110.433%#			
60) 4-Bromofluorobenzene	11.079	95	56347	31.237	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 104.133%			
63) Toluene-d8	8.647	98	97158	30.332	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.100%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	26790	20.374	ug/l	98
3) Chloromethane	1.294	50	31242	22.166	ug/l	99
4) Vinyl Chloride	1.374	62	30620	24.051	ug/l	98
5) Bromomethane	1.617	94	14337	20.331	ug/l	97
6) Chloroethane	1.691	64	13106	17.577	ug/l	95
7) Trichlorofluoromethane	1.892	101	37115	18.891	ug/l	94
8) Diethyl Ether	2.130	74	12470	19.494	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	27197	26.696	ug/l	99
10) 1,1-Dichloroethene	2.319	96	25060	26.091	ug/l	95
11) Methyl Iodide	2.453	142	40497	24.527	ug/l	95
12) Methyl Acetate	2.709	43	44381	22.071	ug/l	98
13) Acrolein	2.239	56	22243	102.591	ug/l	99
14) Acrylonitrile	3.068	53	73211	110.404	ug/l	100
15) Acetone	2.398	58	20818	138.724	ug/l	78
16) Carbon Disulfide	2.514	76	73912	26.445	ug/l	98
17) Allyl chloride	2.666	41	48745	23.856	ug/l	92
18) Methylene Chloride	2.788	84	30473	22.655	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	27633	21.414	ug/l	95
20) Diisopropyl ether	3.751	45	96842	21.959	ug/l #	80
21) 1,1-Dichloroethane	3.605	63	51200	21.170	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	32252	21.017	ug/l	98
23) tert-Butyl Alcohol	3.032	59	26139m	99.796	ug/l	
24) Methyl tert-Butyl Ether	3.105	73	88801	21.651	ug/l	99
25) Chloroform	5.086	83	53213	21.677	ug/l	95
26) Cyclohexane	5.470	56	48210	21.477	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	39371	20.474	ug/l	99
30) 2-Butanone	4.568	43	104774	104.335	ug/l #	98
31) 2,2-Dichloropropane	4.471	77	38248	23.102	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	46401	20.668	ug/l	99
33) Carbon Tetrachloride	5.672	117	43885	21.657	ug/l	95
34) Benzene	6.037	78	113851	20.380	ug/l	99
35) Methacrylonitrile	4.922	41	23143	20.225	ug/l	95
36) 1,2-Dichloroethane	6.086	62	43440	21.391	ug/l	99
37) Trichloroethene	7.123	130	31672	19.659	ug/l	94
38) Methylcyclohexane	7.379	83	50164	20.979	ug/l	100
39) 1,2-Dichloropropane	7.427	63	28912	20.251	ug/l	99
40) Dibromomethane	7.574	93	20667	20.598	ug/l	98
41) Bromodichloromethane	7.818	83	43228	22.213	ug/l	100
42) Vinyl Acetate	3.721	43	368616	102.718	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	43312	21.049	ug/l	99
44) Isopropyl Acetate	6.336	43	64191	19.884	ug/l	100
45) 1,4-Dioxane	7.726	88	13737	390.043	ug/l #	28
46) Methyl methacrylate	7.690	41	33087	20.243	ug/l	100
47) n-amyl Acetate	10.841	43	55800	20.302	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	42893	21.570	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	47683	21.590	ug/l	100
50) 1,1,2-Trichloroethane	9.147	97	30009	20.605	ug/l	94
51) Ethyl methacrylate	9.116	69	42633	19.630	ug/l	96
52) 1,3-Dichloropropane	9.305	76	51129	20.960	ug/l	99
53) Dibromochloromethane	9.518	129	36126	22.758	ug/l	97
54) 1,2-Dibromoethane	9.610	107	32701	21.009	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	102482	97.609	ug/l	99
56) Bromoform	10.799	173	29177	23.939	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	207054	104.144	ug/l	100
59) 2-Hexanone	9.427	43	151478	103.526	ug/l	99
61) Tetrachloroethene	9.269	164	28736	19.899	ug/l	99
62) Toluene	8.714	91	128363	20.374	ug/l	99
64) Chlorobenzene	10.079	112	82027	20.214	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	31852	20.856	ug/l	97
66) Ethyl Benzene	10.189	91	143378	20.407	ug/l	99
67) m/p-Xylenes	10.299	106	113575	40.957	ug/l	99
68) o-Xylene	10.640	106	55612	20.403	ug/l	99
69) Styrene	10.652	104	92385	20.479	ug/l	99
70) Isopropylbenzene	10.963	105	146981	20.822	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	45514	21.414	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	36966m	19.199	ug/l	
73) Bromobenzene	11.195	156	38879	20.812	ug/l	98
74) n-propylbenzene	11.305	91	169058	21.095	ug/l	98
75) 2-Chlorotoluene	11.366	91	101106	21.092	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	123671	21.102	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	13987	24.281	ug/l	89
78) 4-Chlorotoluene	11.451	91	115545	21.495	ug/l	98
79) tert-butylbenzene	11.713	119	87125	14.496	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	84080	14.522	ug/l	100
81) sec-Butylbenzene	11.890	105	103832	14.277	ug/l	98
82) p-Isopropyltoluene	12.012	119	90328	14.400	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	47183	13.836	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	48259	14.194	ug/l	100
85) n-Butylbenzene	12.335	91	79988	15.685	ug/l	98
86) Hexachloroethane	12.536	117	17413	17.064	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	47522	14.466	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	8277	18.758	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	47747	21.133	ug/l	97
90) Hexachlorobutadiene	13.725	225	23345	21.549	ug/l	97
91) Naphthalene	13.774	128	142321	21.452	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	46994	20.730	ug/l	98

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

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