

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX033123\
 Data File : VX034867.D
 Acq On : 31 Mar 2023 10:46
 Operator : JC/MD
 Sample : VX0331WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0331WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/03/2023
 Supervised By : Mahesh Dadoda 04/03/2023

Quant Time: Apr 01 05:32:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	24150	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	168817	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	183498	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	71796	30.941	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 103.133%		
60) 4-Bromofluorobenzene	11.079	95	106600	29.073	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 96.900%		
63) Toluene-d8	8.647	98	187625	30.088	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 100.300%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	52295	22.831	ug/l	99
3) Chloromethane	1.294	50	63417	21.352	ug/l	99
4) Vinyl Chloride	1.374	62	62090	21.189	ug/l	95
5) Bromomethane	1.617	94	42956	22.287	ug/l	100
6) Chloroethane	1.691	64	40379	21.174	ug/l	97
7) Trichlorofluoromethane	1.892	101	102872	22.039	ug/l	97
8) Diethyl Ether	2.130	74	34742	20.675	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	52571	22.200	ug/l	99
10) 1,1-Dichloroethene	2.319	96	50008	20.862	ug/l	100
11) Methyl Iodide	2.453	142	61938	20.290	ug/l	97
12) Methyl Acetate	2.703	43	108476	20.434	ug/l	99
13) Acrolein	2.239	56	57330	93.130	ug/l	98
14) Acrylonitrile	3.062	53	147138	100.657	ug/l	98
15) Acetone	2.392	58	44988	113.362	ug/l	94
16) Carbon Disulfide	2.514	76	119823	19.542	ug/l	100
17) Allyl chloride	2.666	41	94733	20.423	ug/l	99
18) Methylene Chloride	2.788	84	57240	20.271	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	53814	20.516	ug/l	94
20) Diisopropyl ether	3.757	45	198334	20.870	ug/l	99
21) 1,1-Dichloroethane	3.611	63	104949	20.653	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	63915	20.921	ug/l	99
23) tert-Butyl Alcohol	3.001	59	64500m	98.070	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	181723	20.401	ug/l	97
25) Chloroform	5.086	83	107571	20.813	ug/l	97
26) Cyclohexane	5.470	56	93549	21.009	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	81281	20.934	ug/l	98
30) 2-Butanone	4.562	43	224055	103.472	ug/l	100
31) 2,2-Dichloropropane	4.477	77	81271	20.640	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	89402	19.627	ug/l	98
33) Carbon Tetrachloride	5.678	117	75700	20.136	ug/l	96
34) Benzene	6.037	78	229394	20.330	ug/l	97
35) Methacrylonitrile	4.916	41	47295	19.956	ug/l	99
36) 1,2-Dichloroethane	6.086	62	91152	20.604	ug/l	98
37) Trichloroethene	7.123	130	58936	20.523	ug/l	91
38) Methylcyclohexane	7.379	83	86795	20.460	ug/l	99
39) 1,2-Dichloropropane	7.427	63	60070	20.481	ug/l	97
40) Dibromomethane	7.580	93	40177	19.941	ug/l	98
41) Bromodichloromethane	7.824	83	75727	19.954	ug/l #	98
42) Vinyl Acetate	3.721	43	721282	102.104	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	83962	19.993	ug/l	99
44) Isopropyl Acetate	6.336	43	138806	19.525	ug/l	99
45) 1,4-Dioxane	7.708	88	28652	406.798	ug/l	97
46) Methyl methacrylate	7.690	41	68652	19.819	ug/l	98
47) n-amyl Acetate	10.841	43	119676	19.363	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	79714	19.278	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	89124	19.619	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	57035	20.320	ug/l	97
51) Ethyl methacrylate	9.116	69	87640	19.238	ug/l	98
52) 1,3-Dichloropropane	9.305	76	101243	20.419	ug/l	100
53) Dibromochloromethane	9.519	129	53415	19.236	ug/l	98
54) 1,2-Dibromoethane	9.610	107	60366	20.106	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	236729	98.744	ug/l	99
56) Bromoform	10.799	173	33509	17.502	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	426119	101.283	ug/l	100
59) 2-Hexanone	9.427	43	328517	103.709	ug/l	99
61) Tetrachloroethene	9.275	164	50721	20.514	ug/l	96
62) Toluene	8.720	91	247484	20.626	ug/l	99
64) Chlorobenzene	10.079	112	151421	20.493	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	51751	19.592	ug/l	97
66) Ethyl Benzene	10.195	91	279045	20.881	ug/l	98
67) m/p-Xylenes	10.299	106	210060	41.311	ug/l	100
68) o-Xylene	10.640	106	102339	20.352	ug/l	97
69) Styrene	10.652	104	165632	19.980	ug/l	100
70) Isopropylbenzene	10.963	105	265019	20.364	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	86659	20.258	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	71528m	18.369	ug/l	
73) Bromobenzene	11.201	156	63365	20.274	ug/l	97
74) n-propylbenzene	11.305	91	311336	20.550	ug/l	100
75) 2-Chlorotoluene	11.366	91	193281	20.465	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	220737	20.149	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	19889	16.631	ug/l	89
78) 4-Chlorotoluene	11.457	91	220773	20.390	ug/l	100
79) tert-butylbenzene	11.713	119	207787	19.869	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	219754	20.186	ug/l	100
81) sec-Butylbenzene	11.890	105	253872	20.034	ug/l	100
82) p-Isopropyltoluene	12.006	119	213078	19.926	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	118709	20.113	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	121823	20.553	ug/l	99
85) n-Butylbenzene	12.329	91	185575	20.136	ug/l	100
86) Hexachloroethane	12.536	117	31664	18.079	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	119047	20.613	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	16805	17.977	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	67798	19.569	ug/l	98
90) Hexachlorobutadiene	13.725	225	26855	20.099	ug/l	92
91) Naphthalene	13.774	128	241813	19.755	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	69287	20.005	ug/l	99

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

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