

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060123\
 Data File : VX035948.D
 Acq On : 01 Jun 2023 10:27
 Operator : JC/MD
 Sample : VX0601WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0601WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/02/2023
 Supervised By : Semsettin Yesilyurt 06/02/2023

Quant Time: Jun 02 01:35:45 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	4.891	128	35511	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	203302	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	185143	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	90889	30.804	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.667%	
60) 4-Bromofluorobenzene	11.079	95	97052	31.240	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 104.133%	
63) Toluene-d8	8.647	98	245936	30.048	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.167%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	45240	24.913	ug/l	99
3) Chloromethane	1.295	50	41573	18.661	ug/l	93
4) Vinyl Chloride	1.374	62	41331	19.742	ug/l	97
5) Bromomethane	1.618	94	26583	18.875	ug/l	99
6) Chloroethane	1.691	64	26111	19.783	ug/l	98
7) Trichlorofluoromethane	1.886	101	64702	20.386	ug/l	97
8) Diethyl Ether	2.130	74	25208	19.103	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	39879	23.354	ug/l	98
10) 1,1-Dichloroethene	2.319	96	36346	20.418	ug/l	91
11) Methyl Iodide	2.453	142	40243	18.714	ug/l	98
12) Methyl Acetate	2.709	43	104298	20.735	ug/l	99
13) Acrolein	2.240	56	44666	112.336	ug/l	100
14) Acrylonitrile	3.069	53	126999	100.719	ug/l	99
15) Acetone	2.404	58	39153	103.811	ug/l	87
16) Carbon Disulfide	2.514	76	81039	20.977	ug/l	99
17) Allyl chloride	2.666	41	74853	20.843	ug/l	96
18) Methylene Chloride	2.788	84	42743	18.438	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	40519	20.192	ug/l	96
20) Diisopropyl ether	3.758	45	155330	20.036	ug/l	96
21) 1,1-Dichloroethane	3.611	63	82540	20.312	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	49292	19.851	ug/l	100
23) tert-Butyl Alcohol	3.026	59	56399m	122.534	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	150659	20.999	ug/l	93
25) Chloroform	5.087	83	85670	20.545	ug/l	99
26) Cyclohexane	5.465	56	67781	22.055	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	59391	20.978	ug/l	99
30) 2-Butanone	4.568	43	189884	102.460	ug/l	99
31) 2,2-Dichloropropane	4.471	77	66411	21.835	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	73314	22.176	ug/l	99
33) Carbon Tetrachloride	5.672	117	62299	23.864	ug/l	98
34) Benzene	6.032	78	178572	19.994	ug/l	100
35) Methacrylonitrile	4.922	41	38930	19.686	ug/l	96
36) 1,2-Dichloroethane	6.080	62	72691	20.913	ug/l	100
37) Trichloroethene	7.123	130	46339	20.641	ug/l	97
38) Methylcyclohexane	7.379	83	69023	22.231	ug/l	99
39) 1,2-Dichloropropane	7.428	63	46447	19.321	ug/l	100
40) Dibromomethane	7.580	93	32519	20.001	ug/l	99
41) Bromodichloromethane	7.818	83	64568	21.967	ug/l #	98
42) Vinyl Acetate	3.721	43	543697	99.877	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	66250	18.745	ug/l	100
44) Isopropyl Acetate	6.342	43	111827	19.410	ug/l	99
45) 1,4-Dioxane	7.732	88	25294	462.248	ug/l #	88
46) Methyl methacrylate	7.690	41	55242	19.845	ug/l	95
47) n-amyl Acetate	10.842	43	90765	18.756	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	65490	20.140	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	73222	20.404	ug/l	97
50) 1,1,2-Trichloroethane	9.147	97	48186	20.715	ug/l	99
51) Ethyl methacrylate	9.116	69	70619	19.694	ug/l	93
52) 1,3-Dichloropropane	9.305	76	81612	20.133	ug/l	100
53) Dibromochloromethane	9.519	129	45197	21.187	ug/l	100
54) 1,2-Dibromoethane	9.610	107	49223	20.368	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	195969	102.986	ug/l	98
56) Bromoform	10.799	173	30124	21.784	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	354545	98.590	ug/l	98
59) 2-Hexanone	9.427	43	270831	100.088	ug/l	98
61) Tetrachloroethene	9.275	164	37801	21.200	ug/l	90
62) Toluene	8.714	91	193087	20.252	ug/l	99
64) Chlorobenzene	10.080	112	122447	20.278	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	44414	21.039	ug/l	100
66) Ethyl Benzene	10.195	91	218333	20.476	ug/l	98
67) m/p-Xylenes	10.299	106	167192	41.424	ug/l	100
68) o-Xylene	10.640	106	82572	20.453	ug/l	99
69) Styrene	10.653	104	137325	20.610	ug/l	100
70) Isopropylbenzene	10.964	105	219902	21.340	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	73691	20.190	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	62433m	19.640	ug/l	
73) Bromobenzene	11.195	156	50950	20.351	ug/l	95
74) n-propylbenzene	11.305	91	255243	20.780	ug/l	100
75) 2-Chlorotoluene	11.360	91	159080	21.084	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	185312	21.174	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	17711	18.469	ug/l	94
78) 4-Chlorotoluene	11.451	91	179520	20.886	ug/l	98
79) tert-butylbenzene	11.713	119	177997	21.067	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	186157	21.165	ug/l	96
81) sec-Butylbenzene	11.890	105	218622	20.495	ug/l	99
82) p-Isopropyltoluene	12.006	119	185289	20.879	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	95272	20.107	ug/l	96
84) 1,4-Dichlorobenzene	12.043	146	98892	20.794	ug/l	99
85) n-Butylbenzene	12.329	91	156531	19.826	ug/l	99
86) Hexachloroethane	12.536	117	27044	19.351	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	96284	20.740	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	15700	22.506	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	58318	20.961	ug/l	99
90) Hexachlorobutadiene	13.725	225	23484	22.897	ug/l	99
91) Naphthalene	13.774	128	204447	21.235	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	56567	20.363	ug/l	97

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

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