

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060123\
 Data File : VX035967.D
 Acq On : 01 Jun 2023 18:32
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

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

Quant Time: Jun 02 01:37:28 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	4.904	128	34676	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.763	114	192244	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	176439	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	90875	31.541	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.133%			
60) 4-Bromofluorobenzene	11.079	95	94001	31.751	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.833%			
63) Toluene-d8	8.647	98	233313	29.912	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	31297	17.650	ug/l	98
3) Chloromethane	1.295	50	39890	18.337	ug/l	96
4) Vinyl Chloride	1.374	62	35312	17.273	ug/l	98
5) Bromomethane	1.612	94	20045	14.575	ug/l	98
6) Chloroethane	1.685	64	23007	17.851	ug/l	97
7) Trichlorofluoromethane	1.886	101	49526	15.980	ug/l	99
8) Diethyl Ether	2.130	74	23955	18.591	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.325	101	27743	16.638	ug/l	97
10) 1,1-Dichloroethene	2.319	96	29961	17.237	ug/l	94
11) Methyl Iodide	2.453	142	25155	11.979	ug/l	95
12) Methyl Acetate	2.709	43	107778	21.943	ug/l	98
13) Acrolein	2.240	56	36530	94.086	ug/l	97
14) Acrylonitrile	3.069	53	132712	107.784	ug/l	99
15) Acetone	2.398	58	35269	95.765	ug/l	85
16) Carbon Disulfide	2.508	76	63410	16.809	ug/l	98
17) Allyl chloride	2.666	41	69487	19.815	ug/l	96
18) Methylene Chloride	2.788	84	40738	17.996	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	36485	18.619	ug/l	97
20) Diisopropyl ether	3.764	45	149960	19.809	ug/l	89
21) 1,1-Dichloroethane	3.611	63	78847	19.870	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	48537	20.018	ug/l	96
23) tert-Butyl Alcohol	3.014	59	55679m	123.883	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	147421	21.043	ug/l	97
25) Chloroform	5.093	83	84962	20.865	ug/l	97
26) Cyclohexane	5.471	56	47081	15.688	ug/l #	96
29) 1,1-Dichloropropene	5.696	75	51513	19.242	ug/l	98
30) 2-Butanone	4.568	43	194468	110.970	ug/l	100
31) 2,2-Dichloropropane	4.477	77	56602	19.680	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	65219	20.862	ug/l	99
33) Carbon Tetrachloride	5.678	117	49377	20.002	ug/l	96
34) Benzene	6.038	78	172648	20.443	ug/l	99
35) Methacrylonitrile	4.922	41	40676	21.752	ug/l	97
36) 1,2-Dichloroethane	6.086	62	71997	21.905	ug/l #	87
37) Trichloroethene	7.129	130	41444	19.523	ug/l	99
38) Methylcyclohexane	7.379	83	44145	15.036	ug/l	99
39) 1,2-Dichloropropane	7.434	63	45546	20.036	ug/l	96
40) Dibromomethane	7.586	93	31944	20.777	ug/l	98
41) Bromodichloromethane	7.824	83	60717	21.845	ug/l	98
42) Vinyl Acetate	3.727	43	534389	103.814	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	67941	20.329	ug/l	98
44) Isopropyl Acetate	6.342	43	112541	20.658	ug/l	99
45) 1,4-Dioxane	7.708	88	24207m	467.829	ug/l	
46) Methyl methacrylate	7.696	41	56013	21.280	ug/l	94
47) n-amyl Acetate	10.842	43	92421	20.197	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	59939	19.493	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	67589	19.918	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	46424	21.106	ug/l	98
51) Ethyl methacrylate	9.116	69	70091	20.672	ug/l	96
52) 1,3-Dichloropropane	9.311	76	81348	21.222	ug/l	100
53) Dibromochloromethane	9.519	129	43656	21.642	ug/l	98
54) 1,2-Dibromoethane	9.610	107	47880	20.952	ug/l	99
55) 2-Chloroethyl vinyl ether	8.245	63	169870	94.405	ug/l	98
56) Bromoform	10.799	173	27592	21.100	ug/l	96
58) 4-Methyl-2-Pentanone	8.574	43	378726	110.510	ug/l	98
59) 2-Hexanone	9.433	43	283337	109.876	ug/l	98
61) Tetrachloroethene	9.275	164	31193	18.357	ug/l	91
62) Toluene	8.720	91	182651	20.102	ug/l	99
64) Chlorobenzene	10.080	112	113959	19.803	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	42332	21.042	ug/l	99
66) Ethyl Benzene	10.195	91	203884	20.064	ug/l	99
67) m/p-Xylenes	10.305	106	156054	40.572	ug/l	99
68) o-Xylene	10.640	106	78940	20.518	ug/l	99
69) Styrene	10.653	104	131424	20.698	ug/l	99
70) Isopropylbenzene	10.964	105	191654	19.516	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	75860	21.809	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	62874m	20.754	ug/l	
73) Bromobenzene	11.201	156	47890	20.073	ug/l	93
74) n-propylbenzene	11.305	91	218996	18.709	ug/l	100
75) 2-Chlorotoluene	11.366	91	148606	20.668	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	169199	20.286	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	16574	18.136	ug/l	96
78) 4-Chlorotoluene	11.457	91	167615	20.463	ug/l	99
79) tert-butylbenzene	11.713	119	159606	19.822	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	170544	20.347	ug/l	98
81) sec-Butylbenzene	11.890	105	178923	17.601	ug/l	99
82) p-Isopropyltoluene	12.006	119	155873	18.431	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	87538	19.386	ug/l	97
84) 1,4-Dichlorobenzene	12.043	146	90155	19.892	ug/l	99
85) n-Butylbenzene	12.335	91	123467	16.410	ug/l	99
86) Hexachloroethane	12.536	117	23124	17.363	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	92274	20.857	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	15493	23.305	ug/l	93
89) 1,2,4-Trichlorobenzene	13.585	180	49537	18.683	ug/l	98
90) Hexachlorobutadiene	13.725	225	15995	16.364	ug/l	97
91) Naphthalene	13.774	128	188738	20.570	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	49838	18.826	ug/l	96

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

