

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092823\
 Data File : VX037961.D
 Acq On : 28 Sep 2023 19:40
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/29/2023
 Supervised By : Semsettin Yesilyurt 09/29/2023

Quant Time: Sep 29 05:33:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X092723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Sep 28 06:08:32 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	44978	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	249850	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	244038	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	97347	30.025	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.100%
60) 4-Bromofluorobenzene	11.079	95	117664	29.577	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.600%
63) Toluene-d8	8.647	98	315970	29.993	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.967%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	44265	18.774	ug/l	99
3) Chloromethane	1.301	50	47976	18.999	ug/l	95
4) Vinyl Chloride	1.374	62	54323	19.217	ug/l	100
5) Bromomethane	1.612	94	41776	19.184	ug/l	96
6) Chloroethane	1.691	64	34702	18.286	ug/l	93
7) Trichlorofluoromethane	1.892	101	90293	19.351	ug/l	100
8) Diethyl Ether	2.136	74	33586	19.510	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.331	101	45034	18.930	ug/l	99
10) 1,1-Dichloroethene	2.319	96	43287	18.588	ug/l	95
11) Methyl Iodide	2.453	142	59074	18.744	ug/l	99
12) Methyl Acetate	2.703	43	91858	19.407	ug/l	99
13) Acrolein	2.233	56	48907	89.539	ug/l	95
14) Acrylonitrile	3.062	53	125248	95.838	ug/l	98
15) Acetone	2.374	58	34044	90.059	ug/l	93
16) Carbon Disulfide	2.514	76	105618	18.587	ug/l	97
17) Allyl chloride	2.666	41	66368	18.616	ug/l	97
18) Methylene Chloride	2.788	84	53345	19.113	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	50823	19.363	ug/l	90
20) Diisopropyl ether	3.764	45	144554	18.992	ug/l #	94
21) 1,1-Dichloroethane	3.611	63	87882	19.110	ug/l	97
22) cis-1,2-Dichloroethene	4.495	96	59665	19.146	ug/l	94
23) tert-Butyl Alcohol	2.953	59	53069	97.324	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	153388	19.030	ug/l	96
25) Chloroform	5.099	83	96780	19.136	ug/l	99
26) Cyclohexane	5.471	56	72160	18.439	ug/l #	95
29) 1,1-Dichloropropene	5.696	75	70036	19.391	ug/l	98
30) 2-Butanone	4.556	43	165474	95.468	ug/l	96
31) 2,2-Dichloropropane	4.477	77	65041	17.876	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	82099	18.970	ug/l	97
33) Carbon Tetrachloride	5.684	117	70177	18.943	ug/l	99
34) Benzene	6.044	78	206852	19.172	ug/l #	96
35) Methacrylonitrile	4.922	41	33854	18.578	ug/l	93
36) 1,2-Dichloroethane	6.092	62	73437	19.241	ug/l	97
37) Trichloroethene	7.129	130	56961	19.138	ug/l	93
38) Methylcyclohexane	7.385	83	83300	18.350	ug/l	95
39) 1,2-Dichloropropane	7.434	63	51539	18.672	ug/l	96
40) Dibromomethane	7.586	93	38142	18.727	ug/l	96
41) Bromodichloromethane	7.824	83	71219	19.152	ug/l	98
42) Vinyl Acetate	3.721	43	521116	95.373	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	62984	18.381	ug/l	100
44) Isopropyl Acetate	6.342	43	105997	18.698	ug/l	96
45) 1,4-Dioxane	7.659	88	25861	395.889	ug/l #	1
46) Methyl methacrylate	7.696	41	50958	18.911	ug/l	89
47) n-amyl Acetate	10.842	43	95723	17.948	ug/l	94
48) t-1,3-Dichloropropene	8.982	75	73235	18.129	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	80874	18.642	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	57031	19.594	ug/l	94
51) Ethyl methacrylate	9.116	69	79572	18.554	ug/l	95
52) 1,3-Dichloropropane	9.311	76	90461	19.375	ug/l	98
53) Dibromochloromethane	9.519	129	55194	18.400	ug/l	99
54) 1,2-Dibromoethane	9.610	107	60728	19.227	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	196214	93.855	ug/l	98
56) Bromoform	10.799	173	39743	17.615	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	341085	95.477	ug/l	95
59) 2-Hexanone	9.427	43	255379	94.132	ug/l	97
61) Tetrachloroethene	9.275	164	49704	19.139	ug/l	97
62) Toluene	8.720	91	237415	18.755	ug/l	99
64) Chlorobenzene	10.079	112	150321	19.036	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	53263	18.581	ug/l	98
66) Ethyl Benzene	10.195	91	264496	18.932	ug/l	96
67) m/p-Xylenes	10.299	106	208251	37.838	ug/l	100
68) o-Xylene	10.640	106	100423	18.842	ug/l	98
69) Styrene	10.653	104	167358	18.717	ug/l	96
70) Isopropylbenzene	10.964	105	267602	18.919	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.213	83	87731	18.819	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	75684m	18.490	ug/l	
73) Bromobenzene	11.201	156	66604	18.565	ug/l	92
74) n-propylbenzene	11.305	91	320583	18.971	ug/l	100
75) 2-Chlorotoluene	11.366	91	186872	18.889	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	228393	18.724	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	20773	16.024	ug/l	96
78) 4-Chlorotoluene	11.451	91	218254	18.806	ug/l	98
79) tert-butylbenzene	11.713	119	225051	18.746	ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	227595	18.770	ug/l	99
81) sec-Butylbenzene	11.890	105	292725	18.960	ug/l	99
82) p-Isopropyltoluene	12.012	119	241855	18.659	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	130177	18.779	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	134282	19.117	ug/l	98
85) n-Butylbenzene	12.329	91	222173	18.320	ug/l	99
86) Hexachloroethane	12.536	117	37260	17.644	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	128160	18.764	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	17267	18.596	ug/l	86
89) 1,2,4-Trichlorobenzene	13.585	180	88864	19.123	ug/l	100
90) Hexachlorobutadiene	13.725	225	38275	18.749	ug/l	96
91) Naphthalene	13.774	128	270492	19.193	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	85486	18.896	ug/l	99

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

