

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX113023\
 Data File : VX039059.D
 Acq On : 30 Nov 2023 09:39
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Quant Time: Dec 01 01:52:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/01/2023
 Supervised By : Mahesh Dadoda 12/01/2023

12/01/2023
 Supervised By : Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.891	128	12171	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	91089	30.000	ug/l	-0.01
57) Chlorobenzene-d5	10.049	117	110974	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	45643	27.412	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	91.367%
60) 4-Bromofluorobenzene	11.079	95	71319	29.424	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.067%
63) Toluene-d8	8.641	98	131617	29.998	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	37819	20.760	ug/l	96
3) Chloromethane	1.295	50	43473	20.842	ug/l	96
4) Vinyl Chloride	1.374	62	43398	20.609	ug/l	96
5) Bromomethane	1.612	94	29820	23.153	ug/l	100
6) Chloroethane	1.691	64	25919	21.136	ug/l	96
7) Trichlorofluoromethane	1.892	101	59292	20.401	ug/l	96
8) Diethyl Ether	2.130	74	23217	20.811	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	36668	22.326	ug/l	98
10) 1,1-Dichloroethene	2.319	96	35875	21.670	ug/l	94
11) Methyl Iodide	2.453	142	38500	21.222	ug/l	96
12) Methyl Acetate	2.697	43	104020	20.146	ug/l	99
13) Acrolein	2.233	56	53033	117.244	ug/l	100
14) Acrylonitrile	3.056	53	128166	101.488	ug/l	99
15) Acetone	2.368	58	56721	123.563	ug/l	99
16) Carbon Disulfide	2.514	76	102686	20.480	ug/l	97
17) Allyl chloride	2.660	41	70085	21.325	ug/l	99
18) Methylene Chloride	2.788	84	43276	22.053	ug/l	94
19) trans-1,2-Dichloroethene	3.087	96	39573	21.135	ug/l	95
20) Diisopropyl ether	3.751	45	135671	21.693	ug/l #	95
21) 1,1-Dichloroethane	3.605	63	73801	21.223	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	45439	20.940	ug/l	99
23) tert-Butyl Alcohol	2.941	59	55363	79.189	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	128007	20.990	ug/l	99
25) Chloroform	5.080	83	73241	20.985	ug/l	95
26) Cyclohexane	5.465	56	67926	21.582	ug/l #	96
29) 1,1-Dichloropropene	5.684	75	55195	21.616	ug/l	100
30) 2-Butanone	4.538	43	212134	110.342	ug/l	99
31) 2,2-Dichloropropane	4.471	77	64267	22.013	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	63378	21.474	ug/l	98
33) Carbon Tetrachloride	5.672	117	53611	21.565	ug/l	95
34) Benzene	6.032	78	164555	22.122	ug/l	97
35) Methacrylonitrile	4.904	41	36076	21.184	ug/l	96
36) 1,2-Dichloroethane	6.080	62	57691	21.137	ug/l	97
37) Trichloroethene	7.117	130	41364	21.910	ug/l	98
38) Methylcyclohexane	7.373	83	69708	21.910	ug/l	99
39) 1,2-Dichloropropane	7.422	63	43361	22.103	ug/l	98
40) Dibromomethane	7.574	93	29761	21.471	ug/l	99
41) Bromodichloromethane	7.818	83	57802	21.707	ug/l	96
42) Vinyl Acetate	3.715	43	510550	111.497	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	69595	21.041	ug/l	99
44) Isopropyl Acetate	6.330	43	109997	21.096	ug/l	99
45) 1,4-Dioxane	7.653	88	18778	352.787	ug/l	98
46) Methyl methacrylate	7.684	41	63559	21.321	ug/l	98
47) n-amyl Acetate	10.842	43	93229	21.125	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	66210	21.444	ug/l	95
49) cis-1,3-Dichloropropene	8.360	75	69906	21.947	ug/l	97
50) 1,1,2-Trichloroethane	9.147	97	42255	22.442	ug/l	99
51) Ethyl methacrylate	9.110	69	52325	22.200	ug/l	96
52) 1,3-Dichloropropane	9.305	76	72166	22.352	ug/l	98
53) Dibromochloromethane	9.519	129	42295	20.916	ug/l	98
54) 1,2-Dibromoethane	9.604	107	44769	21.682	ug/l	99
55) 2-Chloroethyl vinyl ether	8.232	63	150949	101.041	ug/l	99
56) Bromoform	10.799	173	29748	20.383	ug/l	98
58) 4-Methyl-2-Pentanone	8.568	43	362903	107.838	ug/l	99
59) 2-Hexanone	9.427	43	305499	110.594	ug/l	99
61) Tetrachloroethene	9.269	164	32191	22.311	ug/l	97
62) Toluene	8.714	91	177790	22.566	ug/l	99
64) Chlorobenzene	10.073	112	107232	22.375	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	38657	22.397	ug/l	99
66) Ethyl Benzene	10.189	91	203034	22.631	ug/l	100
67) m/p-Xylenes	10.299	106	149622	45.133	ug/l	99
68) o-Xylene	10.640	106	70650	22.001	ug/l	99
69) Styrene	10.653	104	106325	22.372	ug/l	99
70) Isopropylbenzene	10.957	105	190730	22.199	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	70328	21.926	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	60487m	22.286	ug/l	
73) Bromobenzene	11.195	156	42812	21.886	ug/l	100
74) n-propylbenzene	11.299	91	235622	22.383	ug/l	99
75) 2-Chlorotoluene	11.360	91	137539	22.270	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	163531	22.093	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	22970	21.358	ug/l	95
78) 4-Chlorotoluene	11.451	91	162705	22.408	ug/l	98
79) tert-butylbenzene	11.713	119	155042	22.028	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	161969	21.864	ug/l	100
81) sec-Butylbenzene	11.890	105	194876	21.902	ug/l	99
82) p-Isopropyltoluene	12.006	119	164615	21.829	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	81910	21.880	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	83802	21.817	ug/l	100
85) n-Butylbenzene	12.329	91	163716	21.984	ug/l	99
86) Hexachloroethane	12.536	117	30874	21.608	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	76858	21.351	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.939	75	16300	19.871	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	52074	21.818	ug/l	99
90) Hexachlorobutadiene	13.725	225	19094	22.405	ug/l	97
91) Naphthalene	13.774	128	180602	20.518	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	50418	21.809	ug/l	99

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

