

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112923\
 Data File : VX039051.D
 Acq On : 29 Nov 2023 10:23
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Quant Time: Nov 30 01:35:32 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

11/30/2023

Supervised By :Mahesh

Dadoda

11/30/2023

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

Internal Standards						
1) Bromochloromethane	4.891	128	13422	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	110716	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	137012	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	56002	30.499	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.667%			
60) 4-Bromofluorobenzene	11.079	95	88346	29.522	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.400%			
63) Toluene-d8	8.647	98	161520	29.817	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	39579	19.701	ug/l	100
3) Chloromethane	1.295	50	45192	19.646	ug/l	98
4) Vinyl Chloride	1.374	62	44952	19.357	ug/l	98
5) Bromomethane	1.605	94	31036	21.851	ug/l	98
6) Chloroethane	1.691	64	27356	20.229	ug/l	97
7) Trichlorofluoromethane	1.892	101	65043	20.294	ug/l	95
8) Diethyl Ether	2.130	74	25104	20.405	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	38733	21.385	ug/l	97
10) 1,1-Dichloroethene	2.319	96	38223	20.936	ug/l	94
11) Methyl Iodide	2.453	142	41395	20.691	ug/l	97
12) Methyl Acetate	2.697	43	114501	20.109	ug/l	100
13) Acrolein	2.233	56	49413	99.059	ug/l	99
14) Acrylonitrile	3.056	53	143236	102.850	ug/l	99
15) Acetone	2.374	58	60077	118.676	ug/l	97
16) Carbon Disulfide	2.514	76	107985	19.529	ug/l	97
17) Allyl chloride	2.660	41	72889	20.111	ug/l	95
18) Methylene Chloride	2.788	84	43709	20.197	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	41830	20.258	ug/l	96
20) Diisopropyl ether	3.751	45	143676	20.831	ug/l #	98
21) 1,1-Dichloroethane	3.605	63	78526	20.477	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	48173	20.131	ug/l	100
23) tert-Butyl Alcohol	2.941	59	69628	90.311	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	138398	20.578	ug/l	100
25) Chloroform	5.087	83	79707	20.710	ug/l	93
26) Cyclohexane	5.465	56	70351	20.269	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	59471	19.161	ug/l	99
30) 2-Butanone	4.544	43	235535	100.796	ug/l	100
31) 2,2-Dichloropropane	4.471	77	69462	19.574	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	69533	19.383	ug/l	98
33) Carbon Tetrachloride	5.672	117	57797	19.127	ug/l	96
34) Benzene	6.031	78	177339	19.615	ug/l	99
35) Methacrylonitrile	4.910	41	40939	19.778	ug/l	95
36) 1,2-Dichloroethane	6.080	62	60902	18.358	ug/l	99
37) Trichloroethene	7.123	130	44581	19.428	ug/l	100
38) Methylcyclohexane	7.379	83	74682	19.312	ug/l	99
39) 1,2-Dichloropropane	7.421	63	47379	19.870	ug/l	96
40) Dibromomethane	7.574	93	31893	18.931	ug/l	98
41) Bromodichloromethane	7.818	83	62657	19.359	ug/l	97
42) Vinyl Acetate	3.715	43	551272	99.048	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	75986	18.901	ug/l	99
44) Isopropyl Acetate	6.330	43	121113	19.111	ug/l	99
45) 1,4-Dioxane	7.653	88	23710	366.480	ug/l	96
46) Methyl methacrylate	7.690	41	69138	19.081	ug/l	96
47) n-amyl Acetate	10.842	43	101106	18.849	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	70490	18.783	ug/l	95
49) cis-1,3-Dichloropropene	8.360	75	75348	19.462	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	44944	19.638	ug/l	95
51) Ethyl methacrylate	9.110	69	55156	19.253	ug/l	98
52) 1,3-Dichloropropane	9.305	76	76407	19.470	ug/l	100
53) Dibromochloromethane	9.519	129	46649	18.980	ug/l	97
54) 1,2-Dibromoethane	9.610	107	47935	19.099	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	165612	91.204	ug/l	100
56) Bromoform	10.799	173	32546	18.347	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	410250	98.740	ug/l	100
59) 2-Hexanone	9.427	43	338208	99.167	ug/l	99
61) Tetrachloroethene	9.269	164	35329	19.832	ug/l	97
62) Toluene	8.714	91	193016	19.842	ug/l	99
64) Chlorobenzene	10.073	112	116544	19.697	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.159	131	42259	19.831	ug/l	97
66) Ethyl Benzene	10.189	91	216723	19.566	ug/l	98
67) m/p-Xylenes	10.299	106	161138	39.369	ug/l	99
68) o-Xylene	10.640	106	77464	19.538	ug/l	100
69) Styrene	10.653	104	113876	19.407	ug/l	99
70) Isopropylbenzene	10.957	105	207221	19.535	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	76960	19.434	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	66879m	19.958	ug/l	
73) Bromobenzene	11.195	156	47048	19.481	ug/l	97
74) n-propylbenzene	11.305	91	255635	19.669	ug/l	99
75) 2-Chlorotoluene	11.360	91	146270	19.183	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	177244	19.395	ug/l	100
77) t-1,4-Dichloro-2-butene	11.012	75	24685	18.591	ug/l	100
78) 4-Chlorotoluene	11.451	91	173591	19.364	ug/l	99
79) tert-butylbenzene	11.713	119	170213	19.588	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	177221	19.377	ug/l	100
81) sec-Butylbenzene	11.890	105	213090	19.398	ug/l	99
82) p-Isopropyltoluene	12.006	119	180719	19.411	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	88635	19.177	ug/l	99
84) 1,4-Dichlorobenzene	12.037	146	90027	18.983	ug/l	99
85) n-Butylbenzene	12.329	91	177063	19.258	ug/l	99
86) Hexachloroethane	12.536	117	32935	18.670	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	85421	19.220	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	18796	18.559	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	56454	19.158	ug/l	99
90) Hexachlorobutadiene	13.725	225	20602	19.581	ug/l	96
91) Naphthalene	13.774	128	199883	18.393	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	55625	19.489	ug/l	97

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

