

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120623\
 Data File : VX039085.D
 Acq On : 06 Dec 2023 10:12
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/08/2023
 Supervised By : Mahesh Dadoda 12/08/2023

Quant Time: Dec 07 03:58:37 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

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

Internal Standards						
1) Bromochloromethane	4.891	128	12829	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	105569	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	129436	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	53317	30.378	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.267%			
60) 4-Bromofluorobenzene	11.079	95	85824	30.357	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.200%			
63) Toluene-d8	8.647	98	152311	29.763	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.200%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	40823	21.260	ug/l	99
3) Chloromethane	1.295	50	48399	22.013	ug/l	94
4) Vinyl Chloride	1.374	62	47126	21.231	ug/l	99
5) Bromomethane	1.605	94	34099	25.117	ug/l	98
6) Chloroethane	1.691	64	28125	21.759	ug/l	96
7) Trichlorofluoromethane	1.886	101	65791	21.476	ug/l	96
8) Diethyl Ether	2.130	74	25637	21.801	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	41306	23.860	ug/l	99
10) 1,1-Dichloroethene	2.319	96	40093	22.976	ug/l	98
11) Methyl Iodide	2.453	142	34313	17.944	ug/l	99
12) Methyl Acetate	2.697	43	132628	24.369	ug/l	99
13) Acrolein	2.233	56	45878	96.224	ug/l	97
14) Acrylonitrile	3.056	53	156685	117.707	ug/l	99
15) Acetone	2.374	58	55369	114.431	ug/l	96
16) Carbon Disulfide	2.514	76	112999	21.381	ug/l	97
17) Allyl chloride	2.660	41	80990	23.379	ug/l	98
18) Methylene Chloride	2.788	84	46701	22.577	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	44852	22.726	ug/l	98
20) Diisopropyl ether	3.751	45	158085	23.980	ug/l	98
21) 1,1-Dichloroethane	3.605	63	84735	23.118	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	51298	22.428	ug/l	97
23) tert-Butyl Alcohol	2.947	59	74098	100.551	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	148365	23.080	ug/l	99
25) Chloroform	5.087	83	83955	22.822	ug/l	92
26) Cyclohexane	5.465	56	76885	23.176	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	63532	21.468	ug/l	98
30) 2-Butanone	4.544	43	242638	108.898	ug/l	99
31) 2,2-Dichloropropane	4.471	77	73325	21.670	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	72409	21.169	ug/l	98
33) Carbon Tetrachloride	5.672	117	60440	20.977	ug/l	97
34) Benzene	6.031	78	188079	21.817	ug/l	97
35) Methacrylonitrile	4.910	41	42592	21.580	ug/l	95
36) 1,2-Dichloroethane	6.080	62	67022	21.188	ug/l	99
37) Trichloroethene	7.123	130	46740	21.362	ug/l	95
38) Methylcyclohexane	7.379	83	80732	21.894	ug/l	99
39) 1,2-Dichloropropane	7.428	63	51556	22.676	ug/l	97
40) Dibromomethane	7.574	93	33777	21.026	ug/l	98
41) Bromodichloromethane	7.818	83	66857	21.664	ug/l	95
42) Vinyl Acetate	3.715	43	584671	110.171	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	83055	21.667	ug/l	99
44) Isopropyl Acetate	6.330	43	133934	22.164	ug/l	100
45) 1,4-Dioxane	7.653	88	23617	382.840	ug/l	94
46) Methyl methacrylate	7.690	41	76614	22.175	ug/l	96
47) n-amyl Acetate	10.842	43	112528	22.001	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	75720	21.160	ug/l	96
49) cis-1,3-Dichloropropene	8.360	75	80847	21.901	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	48056	22.022	ug/l	96
51) Ethyl methacrylate	9.110	69	59996	21.963	ug/l	97
52) 1,3-Dichloropropane	9.305	76	82521	22.054	ug/l	99
53) Dibromochloromethane	9.519	129	48754	20.803	ug/l	99
54) 1,2-Dibromoethane	9.604	107	50595	21.142	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	162999	94.141	ug/l	99
56) Bromoform	10.799	173	33984	20.092	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	448799	114.340	ug/l	99
59) 2-Hexanone	9.427	43	366673	113.807	ug/l	99
61) Tetrachloroethene	9.269	164	36360	21.606	ug/l	95
62) Toluene	8.714	91	203898	22.188	ug/l	98
64) Chlorobenzene	10.080	112	120847	21.619	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	43739	21.727	ug/l	99
66) Ethyl Benzene	10.189	91	231453	22.119	ug/l	100
67) m/p-Xylenes	10.299	106	169254	43.772	ug/l	100
68) o-Xylene	10.640	106	81452	21.746	ug/l	99
69) Styrene	10.653	104	119185	21.501	ug/l	99
70) Isopropylbenzene	10.957	105	221251	22.078	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	83801	22.400	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	72417m	22.876	ug/l	
73) Bromobenzene	11.195	156	48175	21.115	ug/l	97
74) n-propylbenzene	11.305	91	274290	22.340	ug/l	99
75) 2-Chlorotoluene	11.360	91	158743	22.037	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	189994	22.007	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	26530	21.150	ug/l	98
78) 4-Chlorotoluene	11.451	91	187162	22.099	ug/l	99
79) tert-butylbenzene	11.713	119	179664	21.885	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	190389	22.035	ug/l	98
81) sec-Butylbenzene	11.890	105	230442	22.205	ug/l	99
82) p-Isopropyltoluene	12.006	119	192948	21.937	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	94626	21.672	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	95424	21.299	ug/l	99
85) n-Butylbenzene	12.329	91	193510	22.279	ug/l	99
86) Hexachloroethane	12.536	117	35916	21.551	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	89576	21.334	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	20123	21.032	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	60117	21.596	ug/l	97
90) Hexachlorobutadiene	13.725	225	22676	22.813	ug/l	99
91) Naphthalene	13.774	128	215427	20.984	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	58728	21.780	ug/l	98

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

