

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112723\
 Data File : VX039042.D
 Acq On : 27 Nov 2023 15:59
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/28/2023
 Supervised By : Mahesh Dadoda 11/28/2023

Quant Time: Nov 28 01:13:27 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	4.897	128	9279	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	75485	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	94424	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	42003	33.088	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 110.300%#			
60) 4-Bromofluorobenzene	11.079	95	61814	29.972	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.900%			
63) Toluene-d8	8.647	98	114564	30.688	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.300%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	29200	21.025	ug/l	100
3) Chloromethane	1.294	50	34977	21.995	ug/l	97
4) Vinyl Chloride	1.374	62	36371	22.655	ug/l	99
5) Bromomethane	1.605	94	25211	25.675	ug/l	98
6) Chloroethane	1.691	64	21243	22.722	ug/l	92
7) Trichlorofluoromethane	1.886	101	50953	22.996	ug/l	96
8) Diethyl Ether	2.130	74	19075	22.427	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	27898	22.281	ug/l	98
10) 1,1-Dichloroethene	2.319	96	27682	21.932	ug/l	96
11) Methyl Iodide	2.453	142	27895	20.169	ug/l	97
12) Methyl Acetate	2.697	43	89075	22.628	ug/l	96
13) Acrolein	2.233	56	42840	124.228	ug/l	98
14) Acrylonitrile	3.056	53	108949	113.160	ug/l	100
15) Acetone	2.374	58	33514	95.763	ug/l	88
16) Carbon Disulfide	2.514	76	81746	21.385	ug/l	98
17) Allyl chloride	2.666	41	57269	22.857	ug/l	94
18) Methylene Chloride	2.788	84	33484	22.381	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	31053	21.754	ug/l	99
20) Diisopropyl ether	3.757	45	105991	22.229	ug/l	90
21) 1,1-Dichloroethane	3.605	63	60087	22.665	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	35200	21.277	ug/l #	83
23) tert-Butyl Alcohol	2.947	59	55893	104.865	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	103946	22.357	ug/l	96
25) Chloroform	5.086	83	58775	22.089	ug/l	93
26) Cyclohexane	5.464	56	52512	21.885	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	45404	21.457	ug/l	99
30) 2-Butanone	4.544	43	165956	104.167	ug/l	99
31) 2,2-Dichloropropane	4.471	77	52462	21.684	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	51632	21.111	ug/l	99
33) Carbon Tetrachloride	5.678	117	42893	20.820	ug/l	94
34) Benzene	6.031	78	129870	21.068	ug/l	98
35) Methacrylonitrile	4.910	41	30422	21.557	ug/l	96
36) 1,2-Dichloroethane	6.080	62	48382	21.391	ug/l	100
37) Trichloroethene	7.123	130	32377	20.695	ug/l	100
38) Methylcyclohexane	7.373	83	57001	21.619	ug/l	100
39) 1,2-Dichloropropane	7.427	63	34539	21.246	ug/l	98
40) Dibromomethane	7.580	93	24094	20.976	ug/l	98
41) Bromodichloromethane	7.818	83	46632	21.132	ug/l	97
42) Vinyl Acetate	3.715	43	424948	111.987	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	59822	21.825	ug/l	99
44) Isopropyl Acetate	6.330	43	94521	21.876	ug/l	99
45) 1,4-Dioxane	7.653	88	18520	419.864	ug/l	96
46) Methyl methacrylate	7.690	41	52733	21.346	ug/l	98
47) n-amyl Acetate	10.842	43	77033	21.064	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	51629	20.178	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	55928	21.189	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	33895	21.723	ug/l	97
51) Ethyl methacrylate	9.116	69	41515	21.255	ug/l	94
52) 1,3-Dichloropropane	9.305	76	57465	21.478	ug/l	100
53) Dibromochloromethane	9.519	129	34471	20.571	ug/l	98
54) 1,2-Dibromoethane	9.610	107	35691	20.858	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	122914	99.282	ug/l	99
56) Bromoform	10.799	173	24217	20.023	ug/l	98
58) 4-Methyl-2-Pentanone	8.568	43	308946	107.895	ug/l	99
59) 2-Hexanone	9.427	43	248438	105.701	ug/l	100
61) Tetrachloroethene	9.269	164	25211	20.536	ug/l	91
62) Toluene	8.714	91	142664	21.281	ug/l	100
64) Chlorobenzene	10.079	112	85707	21.018	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	31101	21.178	ug/l	98
66) Ethyl Benzene	10.189	91	161678	21.180	ug/l	99
67) m/p-Xylenes	10.299	106	119471	42.354	ug/l	100
68) o-Xylene	10.640	106	57831	21.165	ug/l	99
69) Styrene	10.653	104	83855	20.737	ug/l	99
70) Isopropylbenzene	10.963	105	155836	21.316	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	58215	21.331	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	49416m	21.398	ug/l	
73) Bromobenzene	11.195	156	33819	20.319	ug/l	96
74) n-propylbenzene	11.305	91	192763	21.521	ug/l	100
75) 2-Chlorotoluene	11.366	91	112355	21.381	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	133127	21.138	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	17716	19.360	ug/l	95
78) 4-Chlorotoluene	11.451	91	131036	21.209	ug/l	100
79) tert-butylbenzene	11.713	119	126513	21.125	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	134006	21.260	ug/l	99
81) sec-Butylbenzene	11.890	105	162117	21.414	ug/l	99
82) p-Isopropyltoluene	12.006	119	137126	21.371	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	67857	21.303	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	68712	21.024	ug/l	99
85) n-Butylbenzene	12.335	91	133522	21.072	ug/l	99
86) Hexachloroethane	12.536	117	24608	20.241	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	65214	21.291	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	14421	20.661	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	42334	20.846	ug/l	99
90) Hexachlorobutadiene	13.725	225	14141	19.502	ug/l	97
91) Naphthalene	13.774	128	152276	20.332	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	40693	20.688	ug/l	98

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

