

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112723\
 Data File : VX039030.D
 Acq On : 27 Nov 2023 10:21
 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 11/28/2023
 Supervised By : Mahesh Dadoda 11/28/2023

Quant Time: Nov 28 01:09:55 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	10875	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	86388	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	107293	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	45378	30.501	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.667%			
60) 4-Bromofluorobenzene	11.079	95	68845	29.377	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.933%			
63) Toluene-d8	8.647	98	125802	29.656	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.867%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	32348	19.873	ug/l	95
3) Chloromethane	1.294	50	36160	19.402	ug/l	99
4) Vinyl Chloride	1.374	62	37208	19.775	ug/l	98
5) Bromomethane	1.611	94	25942	22.542	ug/l	97
6) Chloroethane	1.691	64	22412	20.454	ug/l	98
7) Trichlorofluoromethane	1.892	101	53077	20.439	ug/l	97
8) Diethyl Ether	2.130	74	19802	19.865	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	29993	20.438	ug/l	98
10) 1,1-Dichloroethene	2.319	96	30109	20.354	ug/l	99
11) Methyl Iodide	2.453	142	31760	19.593	ug/l	98
12) Methyl Acetate	2.697	43	88796	19.247	ug/l	99
13) Acrolein	2.233	56	44734	110.683	ug/l	100
14) Acrylonitrile	3.056	53	111493	98.807	ug/l	99
15) Acetone	2.373	58	47723	116.351	ug/l	99
16) Carbon Disulfide	2.514	76	86238	19.249	ug/l	99
17) Allyl chloride	2.660	41	57772	19.674	ug/l	97
18) Methylene Chloride	2.788	84	34580	19.721	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	32707	19.550	ug/l	95
20) Diisopropyl ether	3.757	45	109820	19.652	ug/l	93
21) 1,1-Dichloroethane	3.611	63	60990	19.629	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	37758	19.474	ug/l	99
23) tert-Butyl Alcohol	2.947	59	57106	91.417	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	108357	19.885	ug/l	99
25) Chloroform	5.092	83	61950	19.866	ug/l	92
26) Cyclohexane	5.470	56	54975	19.549	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	46540	19.218	ug/l	99
30) 2-Butanone	4.544	43	184556	101.221	ug/l	99
31) 2,2-Dichloropropane	4.471	77	55315	19.977	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	55014	19.655	ug/l	98
33) Carbon Tetrachloride	5.672	117	46119	19.561	ug/l	98
34) Benzene	6.031	78	135900	19.264	ug/l	96
35) Methacrylonitrile	4.910	41	29395	18.200	ug/l	96
36) 1,2-Dichloroethane	6.086	62	51362	19.842	ug/l #	90
37) Trichloroethene	7.123	130	34952	19.521	ug/l	100
38) Methylcyclohexane	7.379	83	60166	19.940	ug/l	99
39) 1,2-Dichloropropane	7.427	63	36306	19.514	ug/l	98
40) Dibromomethane	7.580	93	25682	19.537	ug/l	99
41) Bromodichloromethane	7.818	83	49417	19.568	ug/l #	99
42) Vinyl Acetate	3.715	43	430728	99.184	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	60970	19.437	ug/l	100
44) Isopropyl Acetate	6.336	43	98433	19.906	ug/l	97
45) 1,4-Dioxane	7.653	88	18772	371.865	ug/l	97
46) Methyl methacrylate	7.690	41	53766	19.017	ug/l	97
47) n-amyl Acetate	10.841	43	79059	18.889	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	56294	19.224	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	58238	19.279	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	35265	19.748	ug/l	98
51) Ethyl methacrylate	9.116	69	43217	19.334	ug/l	97
52) 1,3-Dichloropropane	9.305	76	59067	19.290	ug/l	99
53) Dibromochloromethane	9.518	129	37218	19.407	ug/l	99
54) 1,2-Dibromoethane	9.610	107	37389	19.093	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	126948	89.599	ug/l	99
56) Bromoform	10.799	173	26506	19.150	ug/l	99
58) 4-Methyl-2-Pentanone	8.567	43	317504	97.584	ug/l	100
59) 2-Hexanone	9.427	43	265873	99.551	ug/l	100
61) Tetrachloroethene	9.269	164	27785	19.918	ug/l	94
62) Toluene	8.714	91	149171	19.583	ug/l	100
64) Chlorobenzene	10.079	112	89673	19.353	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	32605	19.539	ug/l	99
66) Ethyl Benzene	10.195	91	168572	19.434	ug/l	99
67) m/p-Xylenes	10.299	106	125010	39.002	ug/l	100
68) o-Xylene	10.640	106	60318	19.428	ug/l	100
69) Styrene	10.652	104	87936	19.138	ug/l	99
70) Isopropylbenzene	10.963	105	162764	19.594	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	59975	19.340	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	52610m	20.049	ug/l	
73) Bromobenzene	11.195	156	36723	19.417	ug/l	98
74) n-propylbenzene	11.305	91	197881	19.443	ug/l	100
75) 2-Chlorotoluene	11.366	91	116859	19.571	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	140642	19.653	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	19865	19.105	ug/l	97
78) 4-Chlorotoluene	11.451	91	136287	19.413	ug/l	99
79) tert-butylbenzene	11.713	119	132363	19.451	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	139945	19.539	ug/l	99
81) sec-Butylbenzene	11.890	105	169011	19.647	ug/l	98
82) p-Isopropyltoluene	12.006	119	141681	19.433	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	71091	19.642	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	72382	19.490	ug/l	99
85) n-Butylbenzene	12.329	91	138832	19.282	ug/l	99
86) Hexachloroethane	12.536	117	26430	19.132	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	67429	19.374	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	15412	19.433	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	44724	19.382	ug/l	98
90) Hexachlorobutadiene	13.725	225	15933	19.338	ug/l	100
91) Naphthalene	13.774	128	160001	18.801	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	43755	19.576	ug/l	99

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

