

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030422\
 Data File : VX027291.D
 Acq On : 04 Mar 2022 10:47
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/07/2022
 Supervised By : Mahesh Dadoda 03/07/2022

Quant Time: Mar 05 01:47:47 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 04 01:00:22 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	13164	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.763	114	72245	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	62516	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	27209	29.856	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.533%		
60) 4-Bromofluorobenzene	11.079	95	29975	29.597	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.667%		
63) Toluene-d8	8.647	98	83010	30.374	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.233%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	16177	19.197	ug/l	94
3) Chloromethane	1.301	50	12775	18.850	ug/l	97
4) Vinyl Chloride	1.380	62	12317	18.979	ug/l	98
5) Bromomethane	1.611	94	7143	20.481	ug/l	98
6) Chloroethane	1.691	64	7368	19.214	ug/l	100
7) Trichlorofluoromethane	1.892	101	22170	19.974	ug/l	94
8) Diethyl Ether	2.136	74	6787	19.201	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.337	101	15291	19.706	ug/l	100
10) 1,1-Dichloroethene	2.325	96	14660	19.448	ug/l	95
11) Methyl Iodide	2.459	142	13016	14.815	ug/l	99
12) Methyl Acetate	2.703	43	17801	18.149	ug/l	93
13) Acrolein	2.239	56	16328	104.659	ug/l	98
14) Acrylonitrile	3.062	53	39883	90.157	ug/l	99
15) Acetone	2.380	58	14542	114.524	ug/l	98
16) Carbon Disulfide	2.514	76	38844	19.406	ug/l	100
17) Allyl chloride	2.666	41	23512	18.765	ug/l	99
18) Methylene Chloride	2.794	84	15440	18.139	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	15866	19.458	ug/l	96
20) Diisopropyl ether	3.757	45	45402	18.849	ug/l	99
21) 1,1-Dichloroethane	3.611	63	26214	18.606	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	17885	19.099	ug/l	100
23) tert-Butyl Alcohol	2.953	59	13774	78.619	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	47074	18.815	ug/l	100
25) Chloroform	5.093	83	28013	18.656	ug/l	97
26) Cyclohexane	5.471	56	24821	19.565	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	21506	19.473	ug/l	99
30) 2-Butanone	4.550	43	60146	96.474	ug/l #	98
31) 2,2-Dichloropropane	4.477	77	21052	18.961	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	25566	19.060	ug/l	98
33) Carbon Tetrachloride	5.678	117	23750	19.411	ug/l	98
34) Benzene	6.037	78	61697	19.117	ug/l	99
35) Methacrylonitrile	4.916	41	11533	17.696	ug/l	94
36) 1,2-Dichloroethane	6.086	62	22239	18.918	ug/l	99
37) Trichloroethene	7.123	130	18497	18.969	ug/l	97
38) Methylcyclohexane	7.379	83	27077	19.791	ug/l	97
39) 1,2-Dichloropropane	7.428	63	14990	18.918	ug/l	99
40) Dibromomethane	7.580	93	10842	18.298	ug/l	99
41) Bromodichloromethane	7.824	83	21109	18.485	ug/l	98
42) Vinyl Acetate	3.721	43	194887	93.253	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	21490	18.189	ug/l	98
44) Isopropyl Acetate	6.336	43	32587	17.866	ug/l	99
45) 1,4-Dioxane	7.659	88	6683	324.736	ug/l #	94
46) Methyl methacrylate	7.690	41	16357	18.077	ug/l	98
47) n-amyl Acetate	10.842	43	25383	16.886	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	20313	17.227	ug/l	94
49) cis-1,3-Dichloropropene	8.366	75	23320	18.001	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	15379	18.263	ug/l	97
51) Ethyl methacrylate	9.116	69	22456	17.191	ug/l	97
52) 1,3-Dichloropropane	9.311	76	25680	18.260	ug/l	98
53) Dibromochloromethane	9.525	129	16489	17.921	ug/l	99
54) 1,2-Dibromoethane	9.610	107	15893	17.405	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	60490	95.594	ug/l	99
56) Bromoform	10.799	173	10927	16.240	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	103227	91.280	ug/l	99
59) 2-Hexanone	9.427	43	80867	93.440	ug/l	99
61) Tetrachloroethene	9.275	164	18456	20.240	ug/l	98
62) Toluene	8.720	91	65293	19.173	ug/l	99
64) Chlorobenzene	10.079	112	41281	18.918	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	15808	19.088	ug/l	95
66) Ethyl Benzene	10.195	91	72797	18.964	ug/l	97
67) m/p-Xylenes	10.299	106	56801	37.789	ug/l	98
68) o-Xylene	10.640	106	27251	18.548	ug/l	98
69) Styrene	10.659	104	44752	18.322	ug/l	98
70) Isopropylbenzene	10.963	105	73145	18.927	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	20225	17.903	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	19131m	17.437	ug/l	
73) Bromobenzene	11.201	156	17747	18.457	ug/l	99
74) n-propylbenzene	11.305	91	83141	18.875	ug/l	100
75) 2-Chlorotoluene	11.366	91	50257	18.848	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	61753	19.023	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	5562	17.113	ug/l	94
78) 4-Chlorotoluene	11.457	91	56462	18.600	ug/l	99
79) tert-butylbenzene	11.713	119	59240	18.762	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	60606	18.739	ug/l	99
81) sec-Butylbenzene	11.890	105	75649	18.836	ug/l	100
82) p-Isopropyltoluene	12.012	119	63032	18.348	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	33921	18.849	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	33396	18.585	ug/l	99
85) n-Butylbenzene	12.335	91	53180	18.979	ug/l	98
86) Hexachloroethane	12.542	117	9253	17.331	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	32074	18.432	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	4363	16.303	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	20467	17.906	ug/l	99
90) Hexachlorobutadiene	13.725	225	9103	18.968	ug/l	99
91) Naphthalene	13.774	128	67449	17.708	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	20004	17.455	ug/l	98

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

