

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051122\
 Data File : VX028612.D
 Acq On : 11 May 2022 10:42
 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 05/12/2022
 Supervised By : Mahesh Dadoda 05/12/2022

Quant Time: May 12 04:52:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X042822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 29 06:09:36 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	53306	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	292649	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	274618	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	107245	31.635	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 105.467%		
60) 4-Bromofluorobenzene	11.079	95	127593	29.876	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 99.600%		
63) Toluene-d8	8.647	98	358159	30.787	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 102.633%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	37901	20.095	ug/l	96
3) Chloromethane	1.294	50	30833	20.737	ug/l	96
4) Vinyl Chloride	1.374	62	40633	21.498	ug/l	97
5) Bromomethane	1.605	94	32410	20.813	ug/l	97
6) Chloroethane	1.685	64	33289	22.870	ug/l	100
7) Trichlorofluoromethane	1.886	101	90274	21.843	ug/l	98
8) Diethyl Ether	2.130	74	35588	21.833	ug/l	83
9) 1,1,2-Trichlorotrifluo...	2.331	101	50233	20.668	ug/l	96
10) 1,1-Dichloroethene	2.319	96	41300	20.551	ug/l	94
11) Methyl Iodide	2.453	142	49292	18.262	ug/l	99
12) Methyl Acetate	2.703	43	69080	21.532	ug/l	96
13) Acrolein	2.233	56	53421	82.061	ug/l	99
14) Acrylonitrile	3.062	53	153873	105.350	ug/l	99
15) Acetone	2.373	58	43375	104.856	ug/l	89
16) Carbon Disulfide	2.514	76	51556	21.707	ug/l	98
17) Allyl chloride	2.666	41	59643	19.751	ug/l	81
18) Methylene Chloride	2.788	84	53830	20.848	ug/l	90
19) trans-1,2-Dichloroethene	3.093	96	45686	20.578	ug/l	91
20) Diisopropyl ether	3.757	45	155249	20.684	ug/l	95
21) 1,1-Dichloroethane	3.611	63	92863	20.933	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	63465	20.306	ug/l	98
23) tert-Butyl Alcohol	2.953	59	74429	94.354	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	178053	20.150	ug/l	97
25) Chloroform	5.092	83	109500	21.006	ug/l	95
26) Cyclohexane	5.470	56	56925	20.297	ug/l #	91
29) 1,1-Dichloropropene	5.690	75	65535	21.054	ug/l	98
30) 2-Butanone	4.550	43	207976	106.012	ug/l	93
31) 2,2-Dichloropropane	4.477	77	72985	19.092	ug/l	95
32) 1,1,1-Trichloroethane	5.385	97	91883	20.994	ug/l	99
33) Carbon Tetrachloride	5.678	117	76773	20.614	ug/l	98
34) Benzene	6.037	78	207451	20.925	ug/l	96
35) Methacrylonitrile	4.916	41	41161	20.832	ug/l	84
36) 1,2-Dichloroethane	6.086	62	78149	21.151	ug/l	96
37) Trichloroethene	7.123	130	62852	20.697	ug/l	100
38) Methylcyclohexane	7.379	83	65566	20.568	ug/l	95
39) 1,2-Dichloropropane	7.427	63	56066	21.514	ug/l	98
40) Dibromomethane	7.580	93	42898	21.461	ug/l	97
41) Bromodichloromethane	7.824	83	82407	21.725	ug/l	99
42) Vinyl Acetate	3.721	43	647490	106.496	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	74953	20.416	ug/l	98
44) Isopropyl Acetate	6.336	43	117851	19.910	ug/l	99
45) 1,4-Dioxane	7.659	88	33629	436.289	ug/l	90
46) Methyl methacrylate	7.690	41	57191	21.141	ug/l	82
47) n-amyl Acetate	10.841	43	104143	20.322	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	79361	19.920	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	86053	20.102	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	66949	21.299	ug/l	99
51) Ethyl methacrylate	9.116	69	91381	20.316	ug/l	94
52) 1,3-Dichloropropane	9.305	76	105214	21.395	ug/l	100
53) Dibromochloromethane	9.525	129	66750	20.756	ug/l	99
54) 1,2-Dibromoethane	9.610	107	69133	21.141	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	235157	99.578	ug/l	99
56) Bromoform	10.799	173	49796	20.087	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	427335	106.970	ug/l	95
59) 2-Hexanone	9.427	43	328242	106.164	ug/l	95
61) Tetrachloroethene	9.275	164	60443	19.952	ug/l	96
62) Toluene	8.720	91	249826	20.975	ug/l	97
64) Chlorobenzene	10.079	112	174439	20.760	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	65373	19.920	ug/l	98
66) Ethyl Benzene	10.195	91	287909	20.503	ug/l	100
67) m/p-Xylenes	10.305	106	233431	41.470	ug/l	97
68) o-Xylene	10.640	106	115567	20.202	ug/l	99
69) Styrene	10.659	104	194523	20.359	ug/l	97
70) Isopropylbenzene	10.963	105	308360	20.718	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	108524	21.476	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	94395m	20.993	ug/l	
73) Bromobenzene	11.201	156	79831	19.893	ug/l	96
74) n-propylbenzene	11.305	91	346715	20.893	ug/l	99
75) 2-Chlorotoluene	11.366	91	214036	20.820	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	261695	20.969	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	24382	17.908	ug/l	88
78) 4-Chlorotoluene	11.457	91	238956	20.551	ug/l	96
79) tert-butylbenzene	11.713	119	258509	20.417	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	262860	20.983	ug/l	97
81) sec-Butylbenzene	11.890	105	316979	21.121	ug/l	99
82) p-Isopropyltoluene	12.012	119	268797	20.634	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	153297	20.366	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	155256	20.288	ug/l	98
85) n-Butylbenzene	12.335	91	217063	20.646	ug/l	99
86) Hexachloroethane	12.536	117	42401	20.685	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	156247	20.612	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	21381	19.808	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	93444	19.735	ug/l	98
90) Hexachlorobutadiene	13.725	225	40531	20.191	ug/l	99
91) Naphthalene	13.774	128	312403	18.881	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	93681	19.737	ug/l	99

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

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