

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110421\
 Data File : VX025068.D
 Acq On : 03 Nov 2021 23:36
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/04/2021
 Supervised By : Mahesh Dadoda 11/10/2021

Quant Time: Nov 04 00:10:51 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X110421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 03 23:52:56 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	20626	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	112407	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	100169	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	58371	29.652	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.833%		
60) 4-Bromofluorobenzene	11.085	95	54774	29.970	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.900%		
63) Toluene-d8	8.653	98	139561	30.166	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.567%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	32569	20.620	ug/l	99
3) Chloromethane	1.294	50	15664	18.877	ug/l	97
4) Vinyl Chloride	1.373	62	18691	19.642	ug/l	98
5) Bromomethane	1.617	94	14841	18.996	ug/l	95
6) Chloroethane	1.690	64	10974	20.453	ug/l	99
7) Trichlorofluoromethane	1.892	101	46412	20.209	ug/l	96
8) Diethyl Ether	2.136	74	10995	20.202	ug/l	80
9) 1,1,2-Trichlorotrifluo...	2.337	101	24212	20.210	ug/l	96
10) 1,1-Dichloroethene	2.325	96	20118	19.804	ug/l	94
11) Methyl Iodide	2.459	142	25106	21.878	ug/l	98
12) Methyl Acetate	2.709	43	41984	19.670	ug/l	91
13) Acrolein	2.239	56	9054	93.133	ug/l	100
14) Acrylonitrile	3.068	53	57202	95.149	ug/l	90
15) Acetone	2.385	58	15626	85.070	ug/l	83
16) Carbon Disulfide	2.513	76	52164	20.117	ug/l	96
17) Allyl chloride	2.666	41	31751	19.594	ug/l	92
18) Methylene Chloride	2.794	84	23701	19.932	ug/l	91
19) trans-1,2-Dichloroethene	3.093	96	22226	19.902	ug/l	92
20) Diisopropyl ether	3.763	45	71476	20.389	ug/l	95
21) 1,1-Dichloroethane	3.611	63	48059	20.659	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	27026	20.395	ug/l	90
23) tert-Butyl Alcohol	2.989	59	32843	89.835	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	88701	20.658	ug/l	91
25) Chloroform	5.104	83	54771	20.305	ug/l	99
26) Cyclohexane	5.470	56	37194	20.041	ug/l #	98
29) 1,1-Dichloropropene	5.708	75	36577	20.236	ug/l	95
30) 2-Butanone	4.562	43	93704	102.786	ug/l	98
31) 2,2-Dichloropropane	4.483	77	43789	19.072	ug/l #	90
32) 1,1,1-Trichloroethane	5.391	97	51688	19.879	ug/l	94
33) Carbon Tetrachloride	5.684	117	46258	20.273	ug/l	99
34) Benzene	6.043	78	92583	20.083	ug/l	97
35) Methacrylonitrile	4.934	41	16976	18.882	ug/l	87
36) 1,2-Dichloroethane	6.092	62	44094	19.739	ug/l #	95
37) Trichloroethene	7.129	130	26774	20.779	ug/l	94
38) Methylcyclohexane	7.385	83	39429	20.314	ug/l	99
39) 1,2-Dichloropropane	7.439	63	25449	20.228	ug/l	100
40) Dibromomethane	7.586	93	20113	20.521	ug/l	88
41) Bromodichloromethane	7.824	83	41436	19.912	ug/l	92
42) Vinyl Acetate	3.727	43	274179	100.520	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.720	43	35450	20.287	ug/l	94
44) Isopropyl Acetate	6.342	43	54371	19.893	ug/l	97
45) 1,4-Dioxane	7.695	88	11523	397.014	ug/l	94
46) Methyl methacrylate	7.695	41	26075	19.514	ug/l	89
47) n-amyl Acetate	10.841	43	43182	19.591	ug/l	95
48) t-1,3-Dichloropropene	8.982	75	43565	19.434	ug/l	96
49) cis-1,3-Dichloropropene	8.372	75	42415	18.955	ug/l #	86
50) 1,1,2-Trichloroethane	9.153	97	27408	20.652	ug/l	95
51) Ethyl methacrylate	9.116	69	47498	22.206	ug/l	94
52) 1,3-Dichloropropane	9.311	76	46047	20.305	ug/l	99
53) Dibromochloromethane	9.524	129	30407	20.069	ug/l	97
54) 1,2-Dibromoethane	9.610	107	28796	19.426	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	77454	81.374	ug/l	98
56) Bromoform	10.805	173	20249	20.129	ug/l #	98
58) 4-Methyl-2-Pentanone	8.579	43	172958	102.426	ug/l #	91
59) 2-Hexanone	9.433	43	131625	101.446	ug/l #	92
61) Tetrachloroethene	9.274	164	23246	19.805	ug/l	89
62) Toluene	8.720	91	107089	20.900	ug/l	96
64) Chlorobenzene	10.079	112	64217	20.750	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	28990	20.969	ug/l	93
66) Ethyl Benzene	10.195	91	124428	20.538	ug/l	93
67) m/p-Xylenes	10.305	106	87964	42.225	ug/l	85
68) o-Xylene	10.646	106	43659	21.461	ug/l	83
69) Styrene	10.658	104	72196	20.891	ug/l	95
70) Isopropylbenzene	10.963	105	121136	20.494	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.213	83	40344	20.677	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	38027m	20.122	ug/l	
73) Bromobenzene	11.201	156	28568	21.630	ug/l	86
74) n-propylbenzene	11.305	91	146012	20.830	ug/l	96
75) 2-Chlorotoluene	11.366	91	90451	20.590	ug/l	93
76) 1,3,5-Trimethylbenzene	11.451	105	106288	20.619	ug/l	93
77) t-1,4-Dichloro-2-butene	11.018	75	13028	20.475	ug/l	91
78) 4-Chlorotoluene	11.457	91	103430	20.629	ug/l	94
79) tert-butylbenzene	11.719	119	104632	21.543	ug/l	95
80) 1,2,4-Trimethylbenzene	11.756	105	106166	20.943	ug/l	91
81) sec-Butylbenzene	11.896	105	125098	20.703	ug/l	98
82) p-Isopropyltoluene	12.012	119	104278	20.806	ug/l	96
83) 1,3-Dichlorobenzene	11.975	146	51414	20.934	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	51840	21.195	ug/l	96
85) n-Butylbenzene	12.335	91	95559	20.905	ug/l	97
86) Hexachloroethane	12.542	117	18147	20.310	ug/l	88
87) 1,2-Dichlorobenzene	12.341	146	51120	21.140	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	12.945	75	10404	19.495	ug/l	84
89) 1,2,4-Trichlorobenzene	13.591	180	30138	20.574	ug/l #	96
90) Hexachlorobutadiene	13.731	225	15088	20.386	ug/l	98
91) Naphthalene	13.780	128	101747	20.324	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	31444	21.045	ug/l	97

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

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