

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110421\
 Data File : VX025073.D
 Acq On : 04 Nov 2021 16:30
 Operator : JC/MD
 Sample : VX1104WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1104WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/08/2021
 Supervised By : Mahesh Dadoda 11/10/2021

Quant Time: Nov 07 00:01:57 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	23941	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	131917	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	119902	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	67583	29.578	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.600%	
60) 4-Bromofluorobenzene	11.085	95	57563	26.312	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	87.700%	
63) Toluene-d8	8.653	98	164538	29.712	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.033%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	39020	21.284	ug/l	98
3) Chloromethane	1.288	50	18994	19.720	ug/l	98
4) Vinyl Chloride	1.374	62	22924	20.754	ug/l	93
5) Bromomethane	1.611	94	16301	17.976	ug/l	93
6) Chloroethane	1.691	64	12402	19.914	ug/l	96
7) Trichlorofluoromethane	1.892	101	73693	27.644	ug/l	99
8) Diethyl Ether	2.136	74	19360	30.646	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	30135	21.671	ug/l	95
10) 1,1-Dichloroethene	2.319	96	23340	19.795	ug/l	91
11) Methyl Iodide	2.453	142	31945	23.629	ug/l	99
12) Methyl Acetate	2.709	43	46436	18.743	ug/l	97
13) Acrolein	2.239	56	11907	105.521	ug/l	96
14) Acrylonitrile	3.068	53	69370	99.412	ug/l	94
15) Acetone	2.386	58	23585	110.621	ug/l	93
16) Carbon Disulfide	2.514	76	60901	20.234	ug/l	98
17) Allyl chloride	2.666	41	37961	20.182	ug/l	96
18) Methylene Chloride	2.788	84	28134	20.384	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	26868	20.728	ug/l	87
20) Diisopropyl ether	3.757	45	82447	20.262	ug/l	98
21) 1,1-Dichloroethane	3.611	63	55972	20.729	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	31821	20.688	ug/l	90
23) tert-Butyl Alcohol	2.983	59	34994	82.465	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	107158	21.501	ug/l #	89
25) Chloroform	5.099	83	64155	20.490	ug/l	97
26) Cyclohexane	5.470	56	45218	20.991	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	43373	20.447	ug/l	96
30) 2-Butanone	4.562	43	105514	98.623	ug/l #	82
31) 2,2-Dichloropropane	4.471	77	59253	21.991	ug/l #	90
32) 1,1,1-Trichloroethane	5.391	97	61546	20.169	ug/l	92
33) Carbon Tetrachloride	5.678	117	55239	20.628	ug/l	97
34) Benzene	6.043	78	107589	19.886	ug/l	98
35) Methacrylonitrile	4.922	41	20911	19.819	ug/l	92
36) 1,2-Dichloroethane	6.086	62	51476	19.636	ug/l	96
37) Trichloroethene	7.123	130	31491	20.826	ug/l	91
38) Methylcyclohexane	7.385	83	48614	21.342	ug/l	97
39) 1,2-Dichloropropane	7.434	63	29845	20.214	ug/l	93
40) Dibromomethane	7.586	93	23365	20.313	ug/l	89
41) Bromodichloromethane	7.824	83	48830	19.994	ug/l #	97
42) Vinyl Acetate	3.721	43	316066	98.739	ug/l	98

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43) Ethyl Acetate	4.714	43	38278	18.666	ug/l	97
44) Isopropyl Acetate	6.336	43	63238	19.715	ug/l	96
45) 1,4-Dioxane	7.690	88	12473	366.188	ug/l	93
46) Methyl methacrylate	7.690	41	29795	19.000	ug/l	80
47) n-amyl Acetate	10.841	43	48742	18.843	ug/l #	90
48) t-1,3-Dichloropropene	8.982	75	52689	20.028	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	52038	19.816	ug/l #	84
50) 1,1,2-Trichloroethane	9.153	97	30762	19.751	ug/l	95
51) Ethyl methacrylate	9.116	69	49493	19.717	ug/l	83
52) 1,3-Dichloropropane	9.311	76	54456	20.462	ug/l	99
53) Dibromochloromethane	9.525	129	36731	20.657	ug/l	94
54) 1,2-Dibromoethane	9.610	107	35116	20.186	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	93597	83.791	ug/l	98
56) Bromoform	10.799	173	24645	20.876	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	192059	95.019	ug/l #	91
59) 2-Hexanone	9.433	43	153375	98.755	ug/l #	90
61) Tetrachloroethene	9.275	164	29804	21.213	ug/l	95
62) Toluene	8.720	91	125055	20.390	ug/l	95
64) Chlorobenzene	10.079	112	76002	20.516	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	33730	20.382	ug/l	95
66) Ethyl Benzene	10.195	91	150281	20.723	ug/l	97
67) m/p-Xylenes	10.305	106	104669	41.974	ug/l	82
68) o-Xylene	10.646	106	50483	20.731	ug/l	81
69) Styrene	10.659	104	86524	20.916	ug/l	93
70) Isopropylbenzene	10.963	105	154814	21.881	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.213	83	49171	21.054	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	47527m	21.010	ug/l	
73) Bromobenzene	11.201	156	31535	19.947	ug/l	79
74) n-propylbenzene	11.305	91	152796	18.210	ug/l	95
75) 2-Chlorotoluene	11.366	91	99861	18.991	ug/l	89
76) 1,3,5-Trimethylbenzene	11.457	105	134182	21.746	ug/l	90
77) t-1,4-Dichloro-2-butene	11.018	75	16863	22.140	ug/l	89
78) 4-Chlorotoluene	11.457	91	133572	22.256	ug/l	91
79) tert-butylbenzene	11.719	119	119170	20.499	ug/l	90
80) 1,2,4-Trimethylbenzene	11.756	105	124188	20.466	ug/l	91
81) sec-Butylbenzene	11.896	105	141035	19.499	ug/l	95
82) p-Isopropyltoluene	12.012	119	129449	21.578	ug/l	94
83) 1,3-Dichlorobenzene	11.975	146	57713	19.631	ug/l	96
84) 1,4-Dichlorobenzene	12.042	146	55676	19.017	ug/l	95
85) n-Butylbenzene	12.335	91	128432	23.473	ug/l	97
86) Hexachloroethane	12.542	117	15607	14.592	ug/l	85
87) 1,2-Dichlorobenzene	12.335	146	61114	21.114	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	12.945	75	9717	15.211	ug/l #	76
89) 1,2,4-Trichlorobenzene	13.591	180	27165m	15.493	ug/l	
90) Hexachlorobutadiene	13.725	225	13966	15.764	ug/l	99
91) Naphthalene	13.780	128	91138	15.209	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	29129	16.287	ug/l	93

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

