

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110421\
 Data File : VX025067.D
 Acq On : 03 Nov 2021 23:13
 Operator : JC/MD
 Sample : VX1104WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1104WBSD01

Manual Integrations
 APPROVED

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

Quant Time: Nov 04 00:10:06 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	20455	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	110210	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	101773	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	60825	31.157	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.867%	
60) 4-Bromofluorobenzene	11.085	95	54253	29.217	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 97.400%	
63) Toluene-d8	8.653	98	138858	29.541	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 98.467%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	32525	20.765	ug/l	96
3) Chloromethane	1.288	50	16387	19.913	ug/l	97
4) Vinyl Chloride	1.373	62	19302	20.453	ug/l	97
5) Bromomethane	1.611	94	15094	19.481	ug/l	100
6) Chloroethane	1.690	64	11884m	22.334	ug/l	
7) Trichlorofluoromethane	1.892	101	47778	20.977	ug/l	95
8) Diethyl Ether	2.135	74	11791	21.846	ug/l	77
9) 1,1,2-Trichlorotrifluo...	2.337	101	24770	20.849	ug/l	96
10) 1,1-Dichloroethene	2.324	96	21207	21.051	ug/l	89
11) Methyl Iodide	2.459	142	25996	22.681	ug/l	93
12) Methyl Acetate	2.709	43	44399	20.975	ug/l	91
13) Acrolein	2.239	56	9085	94.233	ug/l	97
14) Acrylonitrile	3.068	53	59468	99.745	ug/l	89
15) Acetone	2.385	58	17008	93.368	ug/l	86
16) Carbon Disulfide	2.513	76	53467	20.792	ug/l	98
17) Allyl chloride	2.666	41	33758	21.007	ug/l	95
18) Methylene Chloride	2.794	84	24326	20.629	ug/l	91
19) trans-1,2-Dichloroethene	3.099	96	22600	20.406	ug/l	89
20) Diisopropyl ether	3.763	45	73597	21.169	ug/l	89
21) 1,1-Dichloroethane	3.611	63	47095	20.413	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	26726	20.337	ug/l #	81
23) tert-Butyl Alcohol	2.983	59	37198m	102.598	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	91373	21.458	ug/l	91
25) Chloroform	5.104	83	55373	20.700	ug/l	97
26) Cyclohexane	5.482	56	39880	21.668	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	36940	20.844	ug/l	94
30) 2-Butanone	4.562	43	91759	102.659	ug/l	98
31) 2,2-Dichloropropane	4.483	77	45797	20.345	ug/l	91
32) 1,1,1-Trichloroethane	5.391	97	54318	21.307	ug/l #	75
33) Carbon Tetrachloride	5.684	117	46017	20.569	ug/l	93
34) Benzene	6.043	78	95198	21.062	ug/l	96
35) Methacrylonitrile	4.922	41	19050	21.611	ug/l	89
36) 1,2-Dichloroethane	6.086	62	46490m	21.227	ug/l	
37) Trichloroethene	7.128	130	26179	20.723	ug/l	92
38) Methylcyclohexane	7.391	83	42825	22.503	ug/l	97
39) 1,2-Dichloropropane	7.439	63	24791	20.098	ug/l	97
40) Dibromomethane	7.586	93	19667	20.466	ug/l	93
41) Bromodichloromethane	7.823	83	42305	20.734	ug/l	89
42) Vinyl Acetate	3.727	43	279017	104.333	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	39041	22.788	ug/l	100
44) Isopropyl Acetate	6.342	43	55664	20.772	ug/l	95
45) 1,4-Dioxane	7.683	88	12264	430.968	ug/l #	76
46) Methyl methacrylate	7.695	41	31390	23.960	ug/l	95
47) n-amyl Acetate	10.847	43	43471	20.116	ug/l	93
48) t-1,3-Dichloropropene	8.982	75	44252	20.134	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	44174	20.134	ug/l	89
50) 1,1,2-Trichloroethane	9.152	97	26349	20.250	ug/l	98
51) Ethyl methacrylate	9.116	69	43910	20.938	ug/l	85
52) 1,3-Dichloropropane	9.311	76	45834	20.614	ug/l	99
53) Dibromochloromethane	9.524	129	30241	20.357	ug/l	97
54) 1,2-Dibromoethane	9.616	107	29820	20.517	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	84982	91.063	ug/l	99
56) Bromoform	10.805	173	19839	20.115	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	174883	101.934	ug/l #	91
59) 2-Hexanone	9.433	43	133612	101.354	ug/l #	90
61) Tetrachloroethene	9.274	164	25279	21.197	ug/l	94
62) Toluene	8.720	91	108855	20.910	ug/l	95
64) Chlorobenzene	10.085	112	64987	20.668	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	28704	20.435	ug/l	97
66) Ethyl Benzene	10.195	91	126633	20.572	ug/l	96
67) m/p-Xylenes	10.305	106	91850	43.395	ug/l	87
68) o-Xylene	10.646	106	45009	21.776	ug/l	88
69) Styrene	10.658	104	71299	20.306	ug/l	90
70) Isopropylbenzene	10.963	105	125672	20.927	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.213	83	40397	20.378	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	39318m	20.477	ug/l	
73) Bromobenzene	11.201	156	27824	20.735	ug/l	86
74) n-propylbenzene	11.305	91	149045	20.927	ug/l	96
75) 2-Chlorotoluene	11.366	91	93074	20.853	ug/l	90
76) 1,3,5-Trimethylbenzene	11.457	105	109995	21.002	ug/l	92
77) t-1,4-Dichloro-2-butene	11.024	75	12988	20.090	ug/l	96
78) 4-Chlorotoluene	11.457	91	107533	21.109	ug/l	92
79) tert-butylbenzene	11.719	119	104675	21.213	ug/l	94
80) 1,2,4-Trimethylbenzene	11.756	105	106813	20.739	ug/l	93
81) sec-Butylbenzene	11.896	105	131039	21.344	ug/l	96
82) p-Isopropyltoluene	12.012	119	108954	21.397	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	53173	21.309	ug/l	94
84) 1,4-Dichlorobenzene	12.042	146	52955	21.309	ug/l	97
85) n-Butylbenzene	12.335	91	96112	20.695	ug/l	97
86) Hexachloroethane	12.542	117	17828	19.638	ug/l	92
87) 1,2-Dichlorobenzene	12.335	146	50771	20.665	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.945	75	10893	20.089	ug/l	85
89) 1,2,4-Trichlorobenzene	13.591	180	31663	21.275	ug/l	99
90) Hexachlorobutadiene	13.725	225	15832	21.054	ug/l	98
91) Naphthalene	13.780	128	103078	20.266	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	32076	21.130	ug/l	95

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

