

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091622\
 Data File : VX031409.D
 Acq On : 16 Sep 2022 14:51
 Operator : JC/MD
 Sample : VX0916WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0916WBS01

Quant Time: Sep 16 15:27:17 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X091622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 16 12:41:56 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 09/17/2022
 Supervised By : Mahesh Dadoda 09/19/2022

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

Internal Standards						
1) Bromochloromethane	4.903	128	12447	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	70251	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	65852	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	34295	30.583	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.933%			
60) 4-Bromofluorobenzene	11.079	95	35891	27.035	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 90.133%			
63) Toluene-d8	8.646	98	106504	29.545	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.467%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	12787	18.960	ug/l	92
3) Chloromethane	1.288	50	19814	21.317	ug/l	99
4) Vinyl Chloride	1.373	62	22559	20.943	ug/l	94
5) Bromomethane	1.611	94	34536	24.207	ug/l	97
6) Chloroethane	1.684	64	24041	18.926	ug/l	98
7) Trichlorofluoromethane	1.886	101	50585	19.281	ug/l	93
8) Diethyl Ether	2.135	74	17659	20.191	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.331	101	17881	20.010	ug/l	94
10) 1,1-Dichloroethene	2.318	96	15919	19.031	ug/l	94
11) Methyl Iodide	2.452	142	16028	15.890	ug/l	96
12) Methyl Acetate	2.702	43	25718	19.980	ug/l	95
13) Acrolein	2.239	56	16761	98.153	ug/l	99
14) Acrylonitrile	3.068	53	51078	97.305	ug/l	99
15) Acetone	2.385	58	15150	103.020	ug/l	95
16) Carbon Disulfide	2.513	76	41494	19.217	ug/l	99
17) Allyl chloride	2.666	41	26170	19.302	ug/l	88
18) Methylene Chloride	2.788	84	19720	20.380	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	18542	18.843	ug/l	95
20) Diisopropyl ether	3.757	45	59382	18.649	ug/l	92
21) 1,1-Dichloroethane	3.611	63	33377	19.888	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	22060	19.682	ug/l	99
23) tert-Butyl Alcohol	2.989	59	25591	94.666	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	59804	18.868	ug/l	95
25) Chloroform	5.098	83	36323	18.975	ug/l	93
26) Cyclohexane	5.470	56	29322	19.348	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	26422	18.685	ug/l	99
30) 2-Butanone	4.562	43	76179	95.491	ug/l	98
31) 2,2-Dichloropropane	4.476	77	28710	18.153	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	32530	18.598	ug/l	96
33) Carbon Tetrachloride	5.678	117	28292	18.304	ug/l	95
34) Benzene	6.043	78	77504	18.625	ug/l	97
35) Methacrylonitrile	4.922	41	14540	18.198	ug/l	90
36) 1,2-Dichloroethane	6.086	62	29165	18.563	ug/l #	87
37) Trichloroethene	7.128	130	21269	18.878	ug/l	90
38) Methylcyclohexane	7.378	83	31558	19.092	ug/l	95
39) 1,2-Dichloropropane	7.433	63	18945	18.976	ug/l	96
40) Dibromomethane	7.580	93	14657	18.985	ug/l	91
41) Bromodichloromethane	7.823	83	26937	17.784	ug/l	97
42) Vinyl Acetate	3.721	43	259607	90.709	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.720	43	29106	18.612	ug/l	100
44) Isopropyl Acetate	6.342	43	47250	18.181	ug/l	95
45) 1,4-Dioxane	7.689	88	10880	387.880	ug/l	93
46) Methyl methacrylate	7.695	41	20864	17.934	ug/l	87
47) n-amyl Acetate	10.847	43	39612	17.085	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	28172	16.313	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	31082	17.695	ug/l	94
50) 1,1,2-Trichloroethane	9.152	97	20424	17.492	ug/l	97
51) Ethyl methacrylate	9.116	69	30107	17.254	ug/l	90
52) 1,3-Dichloropropane	9.311	76	34046	17.958	ug/l	99
53) Dibromochloromethane	9.524	129	21560	16.550	ug/l	100
54) 1,2-Dibromoethane	9.610	107	21536	16.709	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	69339	77.358	ug/l	98
56) Bromoform	10.799	173	15022	15.401	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	155432	98.523	ug/l	97
59) 2-Hexanone	9.433	43	116574	96.484	ug/l	98
61) Tetrachloroethene	9.274	164	20494	19.186	ug/l	97
62) Toluene	8.720	91	87695	18.410	ug/l	96
64) Chlorobenzene	10.079	112	54114	18.269	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	20216	18.555	ug/l	95
66) Ethyl Benzene	10.195	91	96571	18.223	ug/l	97
67) m/p-Xylenes	10.305	106	76609	34.102	ug/l	100
68) o-Xylene	10.640	106	36525	17.060	ug/l	98
69) Styrene	10.658	104	60061	16.458	ug/l	99
70) Isopropylbenzene	10.963	105	97594	17.114	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	32238	18.230	ug/l	97
72) 1,2,3-Trichloropropane	11.237	75	29128m	17.926	ug/l	
73) Bromobenzene	11.201	156	23519	17.117	ug/l	98
74) n-propylbenzene	11.305	91	114447	17.243	ug/l	99
75) 2-Chlorotoluene	11.366	91	66036	16.990	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	82822	16.397	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	8687	15.808	ug/l	95
78) 4-Chlorotoluene	11.457	91	75032	16.165	ug/l	98
79) tert-butylbenzene	11.713	119	81524	17.066	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	80475	16.433	ug/l	98
81) sec-Butylbenzene	11.890	105	102636	16.920	ug/l	99
82) p-Isopropyltoluene	12.012	119	85947	16.600	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	45553	16.745	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	45376	16.242	ug/l	98
85) n-Butylbenzene	12.335	91	73489	16.888	ug/l	98
86) Hexachloroethane	12.542	117	14907	17.143	ug/l	86
87) 1,2-Dichlorobenzene	12.335	146	44271	16.389	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.944	75	6607	17.538	ug/l	94
89) 1,2,4-Trichlorobenzene	13.591	180	26373	17.776	ug/l	99
90) Hexachlorobutadiene	13.725	225	10445	19.199	ug/l	98
91) Naphthalene	13.774	128	94962	17.750	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	26874	18.056	ug/l	97

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

