

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092823\
 Data File : VX037941.D
 Acq On : 28 Sep 2023 10:53
 Operator : JC/MD
 Sample : VX0928WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0928WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/29/2023
 Supervised By : Semsettin Yesilyurt 09/29/2023

Quant Time: Sep 29 04:22:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X092723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Sep 28 06:08:32 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	43571	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	243743	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	233393	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	94214	29.997	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.000%			
60) 4-Bromofluorobenzene	11.079	95	114121	29.995	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.967%			
63) Toluene-d8	8.647	98	304255	30.198	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.667%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	45403	19.878	ug/l	98
3) Chloromethane	1.300	50	47519	19.426	ug/l	93
4) Vinyl Chloride	1.374	62	54422	19.874	ug/l	97
5) Bromomethane	1.611	94	43123	20.442	ug/l	94
6) Chloroethane	1.691	64	36068	19.620	ug/l	94
7) Trichlorofluoromethane	1.892	101	92124	20.381	ug/l	98
8) Diethyl Ether	2.136	74	34090	20.442	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.331	101	48151	20.894	ug/l	98
10) 1,1-Dichloroethene	2.319	96	45449	20.147	ug/l	95
11) Methyl Iodide	2.453	142	61708	20.212	ug/l	99
12) Methyl Acetate	2.703	43	98219	21.421	ug/l	98
13) Acrolein	2.233	56	55410	104.720	ug/l	95
14) Acrylonitrile	3.062	53	134992	106.630	ug/l	98
15) Acetone	2.380	58	41880	114.366	ug/l	83
16) Carbon Disulfide	2.514	76	109605	19.911	ug/l	98
17) Allyl chloride	2.666	41	71414	20.678	ug/l	94
18) Methylene Chloride	2.788	84	54823	20.277	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	50318	19.790	ug/l	96
20) Diisopropyl ether	3.757	45	150493	20.411	ug/l #	84
21) 1,1-Dichloroethane	3.611	63	89994	20.202	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	60660	20.093	ug/l	96
23) tert-Butyl Alcohol	2.953	59	60563	114.654	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	161133	20.637	ug/l	97
25) Chloroform	5.092	83	98387	20.082	ug/l	98
26) Cyclohexane	5.470	56	75944	20.032	ug/l #	96
29) 1,1-Dichloropropene	5.696	75	71787	20.374	ug/l	98
30) 2-Butanone	4.556	43	185313	109.592	ug/l	96
31) 2,2-Dichloropropane	4.477	77	74233	20.913	ug/l #	77
32) 1,1,1-Trichloroethane	5.385	97	84457	20.004	ug/l	98
33) Carbon Tetrachloride	5.678	117	73445	20.322	ug/l	98
34) Benzene	6.037	78	211031	20.050	ug/l	97
35) Methacrylonitrile	4.922	41	36326	20.434	ug/l	93
36) 1,2-Dichloroethane	6.086	62	76770	20.619	ug/l	99
37) Trichloroethene	7.129	130	58294	20.076	ug/l	98
38) Methylcyclohexane	7.379	83	90586	20.454	ug/l	94
39) 1,2-Dichloropropane	7.427	63	54108	20.094	ug/l	97
40) Dibromomethane	7.580	93	40783	20.525	ug/l	98
41) Bromodichloromethane	7.824	83	73681	20.311	ug/l	100
42) Vinyl Acetate	3.721	43	561662	105.369	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	71383	21.354	ug/l	97
44) Isopropyl Acetate	6.336	43	115041	20.802	ug/l	95
45) 1,4-Dioxane	7.659	88	29427	461.765	ug/l #	1
46) Methyl methacrylate	7.696	41	55714	21.193	ug/l	92
47) n-amyl Acetate	10.841	43	104889	20.159	ug/l	95
48) t-1,3-Dichloropropene	8.982	75	79400	20.148	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	85719	20.254	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	58187	20.492	ug/l	97
51) Ethyl methacrylate	9.116	69	83728	20.012	ug/l	96
52) 1,3-Dichloropropane	9.311	76	93984	20.634	ug/l	99
53) Dibromochloromethane	9.518	129	59072	20.186	ug/l	99
54) 1,2-Dibromoethane	9.610	107	63028	20.456	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	202356	99.219	ug/l	98
56) Bromoform	10.799	173	43026	19.548	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	369149	108.046	ug/l	96
59) 2-Hexanone	9.427	43	281401	108.454	ug/l	96
61) Tetrachloroethene	9.275	164	50755	20.435	ug/l	97
62) Toluene	8.720	91	244341	20.182	ug/l	99
64) Chlorobenzene	10.079	112	156903	20.775	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	55647	20.298	ug/l	98
66) Ethyl Benzene	10.195	91	274180	20.520	ug/l	96
67) m/p-Xylenes	10.299	106	215310	40.905	ug/l	98
68) o-Xylene	10.640	106	103148	20.236	ug/l	97
69) Styrene	10.652	104	173804	20.325	ug/l	98
70) Isopropylbenzene	10.963	105	276294	20.425	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	93178	20.899	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	82184m	20.994	ug/l	
73) Bromobenzene	11.195	156	70637	20.587	ug/l	90
74) n-propylbenzene	11.305	91	332779	20.591	ug/l	100
75) 2-Chlorotoluene	11.366	91	198144	20.942	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	239463	20.527	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	24260	19.568	ug/l	94
78) 4-Chlorotoluene	11.457	91	226780	20.432	ug/l	98
79) tert-butylbenzene	11.713	119	236132	20.566	ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	237445	20.475	ug/l	99
81) sec-Butylbenzene	11.890	105	304026	20.590	ug/l	99
82) p-Isopropyltoluene	12.012	119	255460	20.608	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	137656	20.764	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	139518	20.768	ug/l	98
85) n-Butylbenzene	12.335	91	237810	20.504	ug/l	99
86) Hexachloroethane	12.542	117	40267	19.937	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	134362	20.570	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.945	75	18880	21.261	ug/l	88
89) 1,2,4-Trichlorobenzene	13.585	180	91846	20.667	ug/l	99
90) Hexachlorobutadiene	13.725	225	41047	21.024	ug/l	97
91) Naphthalene	13.774	128	277714	20.604	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	90108	20.826	ug/l	99

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

