

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032823\
 Data File : VX034780.D
 Acq On : 28 Mar 2023 09:35
 Operator : JC/MD
 Sample : VX0328WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0328WBS01

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 03/29/2023
 Supervised By :Semsettin Yesilyurt 03/29/2023

Quant Time: Mar 28 15:16:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	28410	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	206590	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	220633	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	84050	30.790	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.633%			
60) 4-Bromofluorobenzene	11.079	95	128034	29.042	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.800%			
63) Toluene-d8	8.647	98	225364	30.057	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.200%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	57724	21.422	ug/l	99
3) Chloromethane	1.295	50	72544	20.763	ug/l	98
4) Vinyl Chloride	1.374	62	71572	20.762	ug/l	97
5) Bromomethane	1.618	94	46548	20.529	ug/l	97
6) Chloroethane	1.691	64	44805	19.972	ug/l	95
7) Trichlorofluoromethane	1.886	101	117303	21.363	ug/l	99
8) Diethyl Ether	2.130	74	39570	20.017	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	60391	21.678	ug/l	99
10) 1,1-Dichloroethene	2.319	96	56945	20.193	ug/l	97
11) Methyl Iodide	2.453	142	71005	19.773	ug/l	94
12) Methyl Acetate	2.703	43	120481	19.293	ug/l	99
13) Acrolein	2.240	56	77417	106.903	ug/l	100
14) Acrylonitrile	3.063	53	167457	97.380	ug/l	99
15) Acetone	2.392	58	50134	107.387	ug/l	93
16) Carbon Disulfide	2.514	76	143189	19.851	ug/l	99
17) Allyl chloride	2.666	41	109695	20.102	ug/l	100
18) Methylene Chloride	2.788	84	65471	19.709	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	62473	20.245	ug/l	95
20) Diisopropyl ether	3.751	45	225137	20.138	ug/l	91
21) 1,1-Dichloroethane	3.605	63	120128	20.096	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	73283	20.391	ug/l	99
23) tert-Butyl Alcohol	3.002	59	75363m	97.404	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	209463	19.989	ug/l	99
25) Chloroform	5.093	83	121375	19.963	ug/l	98
26) Cyclohexane	5.471	56	108718	20.754	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	90492	19.045	ug/l	99
30) 2-Butanone	4.556	43	258175	97.429	ug/l	100
31) 2,2-Dichloropropane	4.471	77	97686	20.272	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	103993	18.656	ug/l	98
33) Carbon Tetrachloride	5.672	117	87933	19.114	ug/l	93
34) Benzene	6.038	78	261837	18.962	ug/l	99
35) Methacrylonitrile	4.916	41	53017	18.280	ug/l	98
36) 1,2-Dichloroethane	6.080	62	101395	18.729	ug/l	98
37) Trichloroethene	7.123	130	68551	19.507	ug/l	98
38) Methylcyclohexane	7.379	83	106056	20.430	ug/l	97
39) 1,2-Dichloropropane	7.428	63	66351	18.486	ug/l	96
40) Dibromomethane	7.580	93	46497	18.859	ug/l	98
41) Bromodichloromethane	7.818	83	85376	18.383	ug/l	98
42) Vinyl Acetate	3.715	43	822550	95.149	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	97647	19.000	ug/l	99
44) Isopropyl Acetate	6.336	43	157505	18.104	ug/l	98
45) 1,4-Dioxane	7.708	88	33147	384.570	ug/l #	41
46) Methyl methacrylate	7.690	41	75741	17.868	ug/l	98
47) n-amyl Acetate	10.842	43	136436	18.038	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	91306	18.044	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	103787	18.669	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	64071	18.653	ug/l	98
51) Ethyl methacrylate	9.116	69	100380	18.005	ug/l	99
52) 1,3-Dichloropropane	9.305	76	114357	18.847	ug/l	99
53) Dibromochloromethane	9.519	129	61728	18.166	ug/l	99
54) 1,2-Dibromoethane	9.610	107	68635	18.680	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	283396	96.596	ug/l	99
56) Bromoform	10.799	173	39695	16.942	ug/l	96
58) 4-Methyl-2-Pentanone	8.568	43	480760	95.038	ug/l	100
59) 2-Hexanone	9.427	43	377075	99.003	ug/l	99
61) Tetrachloroethene	9.275	164	60024	20.190	ug/l	99
62) Toluene	8.714	91	285117	19.763	ug/l	99
64) Chlorobenzene	10.080	112	172507	19.417	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	61224	19.277	ug/l	99
66) Ethyl Benzene	10.189	91	317329	19.749	ug/l	100
67) m/p-Xylenes	10.299	106	241407	39.485	ug/l	99
68) o-Xylene	10.640	106	118196	19.549	ug/l	100
69) Styrene	10.653	104	192073	19.270	ug/l	100
70) Isopropylbenzene	10.964	105	313226	20.017	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.214	83	97907	19.035	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	81845m	17.481	ug/l	
73) Bromobenzene	11.195	156	71534	19.035	ug/l	95
74) n-propylbenzene	11.305	91	368094	20.207	ug/l	100
75) 2-Chlorotoluene	11.366	91	223492	19.680	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	261360	19.842	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	23975	16.674	ug/l	95
78) 4-Chlorotoluene	11.451	91	255845	19.652	ug/l	100
79) tert-butylbenzene	11.713	119	248956	19.799	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	259837	19.851	ug/l	99
81) sec-Butylbenzene	11.890	105	305332	20.040	ug/l	100
82) p-Isopropyltoluene	12.006	119	253086	19.684	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	139237	19.620	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	140098	19.658	ug/l	100
85) n-Butylbenzene	12.329	91	225439	20.345	ug/l	99
86) Hexachloroethane	12.536	117	39333	18.678	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	137173	19.754	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	20151	17.928	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	82450	19.793	ug/l	100
90) Hexachlorobutadiene	13.725	225	33635	20.937	ug/l	98
91) Naphthalene	13.774	128	282822	19.216	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	82483	19.806	ug/l	99

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

