

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071423\
 Data File : VX036531.D
 Acq On : 13 Jul 2023 17:30
 Operator : JC/MD
 Sample : VX0714WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0714WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/14/2023
 Supervised By : Semsettin Yesilyurt 07/14/2023

Quant Time: Jul 14 04:36:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	32211	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	178727	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	163872	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	77210	28.881	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.267%		
60) 4-Bromofluorobenzene	11.079	95	81984	30.842	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.800%		
63) Toluene-d8	8.647	98	225653	29.924	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.733%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	33650	18.698	ug/l	100
3) Chloromethane	1.295	50	42390	17.216	ug/l	97
4) Vinyl Chloride	1.374	62	43996	17.328	ug/l	98
5) Bromomethane	1.612	94	41882	16.107	ug/l	99
6) Chloroethane	1.685	64	28714	16.615	ug/l	92
7) Trichlorofluoromethane	1.886	101	75557	18.343	ug/l	100
8) Diethyl Ether	2.130	74	30231	17.664	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	34003	18.233	ug/l	99
10) 1,1-Dichloroethene	2.319	96	33123	17.572	ug/l	100
11) Methyl Iodide	2.453	142	36601	17.040	ug/l	97
12) Methyl Acetate	2.703	43	78902	17.808	ug/l	93
13) Acrolein	2.233	56	33923	93.330	ug/l	98
14) Acrylonitrile	3.063	53	108694	87.519	ug/l	95
15) Acetone	2.386	58	31215	88.777	ug/l	96
16) Carbon Disulfide	2.514	76	81943	17.918	ug/l	98
17) Allyl chloride	2.666	41	56811	16.990	ug/l	99
18) Methylene Chloride	2.788	84	40157	17.693	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	36530	17.730	ug/l	93
20) Diisopropyl ether	3.764	45	122690	18.003	ug/l	94
21) 1,1-Dichloroethane	3.611	63	68950	17.353	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	43549	17.562	ug/l	99
23) tert-Butyl Alcohol	2.971	59	52601m	91.207	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	123301	17.988	ug/l	98
25) Chloroform	5.093	83	72618	17.678	ug/l	99
26) Cyclohexane	5.471	56	56886	18.662	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	51374	19.062	ug/l	99
30) 2-Butanone	4.556	43	158164	93.203	ug/l	100
31) 2,2-Dichloropropane	4.477	77	54426	18.415	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	58674	18.321	ug/l	100
33) Carbon Tetrachloride	5.678	117	49505	18.119	ug/l	98
34) Benzene	6.038	78	153115	18.431	ug/l #	94
35) Methacrylonitrile	4.922	41	32313	18.353	ug/l	96
36) 1,2-Dichloroethane	6.086	62	60106	18.843	ug/l #	88
37) Trichloroethene	7.123	130	40860	18.688	ug/l	92
38) Methylcyclohexane	7.379	83	64251	20.492	ug/l	96
39) 1,2-Dichloropropane	7.428	63	41590	18.469	ug/l	98
40) Dibromomethane	7.580	93	30303	18.578	ug/l	98
41) Bromodichloromethane	7.824	83	53125	17.946	ug/l	100
42) Vinyl Acetate	3.721	43	484103	94.445	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	63038	19.084	ug/l	98
44) Isopropyl Acetate	6.342	43	98070	18.616	ug/l	99
45) 1,4-Dioxane	7.678	88	23062	385.680	ug/l #	1
46) Methyl methacrylate	7.690	41	46665	18.534	ug/l	90
47) n-amyl Acetate	10.842	43	83631	18.717	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	58529	18.026	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	63700	18.162	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	41416	18.704	ug/l	97
51) Ethyl methacrylate	9.116	69	66182	19.038	ug/l	100
52) 1,3-Dichloropropane	9.311	76	71515	19.138	ug/l	98
53) Dibromochloromethane	9.519	129	40409	18.080	ug/l	100
54) 1,2-Dibromoethane	9.610	107	43969	18.903	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	185746	99.351	ug/l	99
56) Bromoform	10.799	173	28342	18.227	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	313958	92.650	ug/l	98
59) 2-Hexanone	9.427	43	240893	93.443	ug/l	100
61) Tetrachloroethene	9.275	164	37749	19.233	ug/l	99
62) Toluene	8.720	91	168234	18.297	ug/l	98
64) Chlorobenzene	10.080	112	105588	18.446	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	38428	18.589	ug/l	99
66) Ethyl Benzene	10.195	91	186159	18.630	ug/l	96
67) m/p-Xylenes	10.299	106	143692	36.885	ug/l	98
68) o-Xylene	10.640	106	72288	18.697	ug/l	100
69) Styrene	10.659	104	117335	18.718	ug/l	98
70) Isopropylbenzene	10.964	105	182785	18.982	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.214	83	65567	18.655	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	62415m	19.164	ug/l	
73) Bromobenzene	11.201	156	44754	18.801	ug/l	97
74) n-propylbenzene	11.305	91	218838	19.308	ug/l	99
75) 2-Chlorotoluene	11.366	91	130826	18.982	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	154619	18.686	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	18844	17.620	ug/l	94
78) 4-Chlorotoluene	11.457	91	148910	18.976	ug/l	100
79) tert-butylbenzene	11.713	119	148514	18.910	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	158269	19.303	ug/l	99
81) sec-Butylbenzene	11.890	105	189526	19.172	ug/l	99
82) p-Isopropyltoluene	12.012	119	158998	19.332	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	84252	19.029	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	82142	18.618	ug/l	99
85) n-Butylbenzene	12.335	91	142601	19.047	ug/l	99
86) Hexachloroethane	12.543	117	24426	17.938	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	83989	18.912	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	14254	18.036	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	51135	18.259	ug/l	97
90) Hexachlorobutadiene	13.725	225	21132	20.774	ug/l	97
91) Naphthalene	13.774	128	184062	18.731	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	54226	19.183	ug/l	98

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

