

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032823\
 Data File : VX034768.D
 Acq On : 27 Mar 2023 23:43
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Mar 28 05:47:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 05:37:20 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

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

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

Internal Standards						
1) Bromochloromethane	4.903	128	30250	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	205824	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	228155	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	87490	35.919	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 119.733%#			
60) 4-Bromofluorobenzene	11.079	95	142962m	34.751	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 115.833%#			
63) Toluene-d8	8.646	98	231292	31.543	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 105.133%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	297013	109.071	ug/l	98
3) Chloromethane	1.294	50	364733	112.976	ug/l	97
4) Vinyl Chloride	1.373	62	365060	116.591	ug/l	100
5) Bromomethane	1.617	94	233595	113.483	ug/l	99
6) Chloroethane	1.690	64	238857	137.357	ug/l	100
7) Trichlorofluoromethane	1.885	101	580919	124.235	ug/l	98
8) Diethyl Ether	2.129	74	205885	116.239	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.330	101	299341	110.373	ug/l	89
10) 1,1-Dichloroethene	2.318	96	299587	111.168	ug/l	93
11) Methyl Iodide	2.452	142	409618	103.777	ug/l	94
12) Methyl Acetate	2.702	43	664279	132.493	ug/l	98
13) Acrolein	2.239	56	384107	657.870	ug/l	96
14) Acrylonitrile	3.068	53	927308	591.507	ug/l	98
15) Acetone	2.385	58	247493	536.469	ug/l	97
16) Carbon Disulfide	2.513	76	815570	122.417	ug/l	98
17) Allyl chloride	2.666	41	601307	121.897	ug/l	94
18) Methylene Chloride	2.788	84	345884	111.858	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	336114	115.708	ug/l	93
20) Diisopropyl ether	3.757	45	1198704	121.516	ug/l	96
21) 1,1-Dichloroethane	3.611	63	648235	121.098	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	391726	114.367	ug/l	92
23) tert-Butyl Alcohol	2.995	59	419613m	740.760	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	1130728	122.335	ug/l	92
25) Chloroform	5.092	83	663548	123.571	ug/l	96
26) Cyclohexane	5.470	56	575837	120.904	ug/l #	95
29) 1,1-Dichloropropene	5.690	75	498560	123.722	ug/l	96
30) 2-Butanone	4.562	43	1370707	604.922	ug/l	98
31) 2,2-Dichloropropane	4.476	77	513254	131.277	ug/l	95
32) 1,1,1-Trichloroethane	5.385	97	592470	126.738	ug/l	97
33) Carbon Tetrachloride	5.677	117	504189	123.551	ug/l	94
34) Benzene	6.037	78	1408433	117.315	ug/l #	96
35) Methacrylonitrile	4.915	41	299626	121.808	ug/l	93
36) 1,2-Dichloroethane	6.086	62	567842	130.809	ug/l	95
37) Trichloroethene	7.122	130	365419	110.989	ug/l	91
38) Methylcyclohexane	7.378	83	542271	113.981	ug/l	98
39) 1,2-Dichloropropane	7.427	63	371029	123.484	ug/l	96
40) Dibromomethane	7.580	93	257611	121.432	ug/l	89
41) Bromodichloromethane	7.823	83	510534	127.761	ug/l	98
42) Vinyl Acetate	3.720	43	4519281	596.168	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	536828	120.474	ug/l	100
44) Isopropyl Acetate	6.336	43	919171	133.168	ug/l	99
45) 1,4-Dioxane	7.708	88	176380	2482.851	ug/l #	93
46) Methyl methacrylate	7.689	41	453868	131.687	ug/l	94
47) n-amyl Acetate	10.841	43	835382	142.046	ug/l	96
48) t-1,3-Dichloropropene	8.976	75	579533	135.541	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	607626	127.102	ug/l	94
50) 1,1,2-Trichloroethane	9.152	97	356700	114.424	ug/l	97
51) Ethyl methacrylate	9.116	69	596249	126.312	ug/l	97
52) 1,3-Dichloropropane	9.311	76	619813	116.348	ug/l	100
53) Dibromochloromethane	9.524	129	387559	116.646	ug/l	100
54) 1,2-Dibromoethane	9.610	107	385606	114.743	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	1520578	665.167	ug/l	98
56) Bromoform	10.798	173	279618	112.781	ug/l #	97
58) 4-Methyl-2-Pentanone	8.573	43	2641113	615.362	ug/l	98
59) 2-Hexanone	9.433	43	2026059	629.088	ug/l	99
61) Tetrachloroethene	9.274	164	308024	102.825	ug/l	92
62) Toluene	8.720	91	1516663	117.383	ug/l	99
64) Chlorobenzene	10.079	112	942533	110.887	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.164	131	357313	114.171	ug/l	99
66) Ethyl Benzene	10.195	91	1726664	117.524	ug/l	97
67) m/p-Xylenes	10.299	106	1323503	230.524	ug/l	97
68) o-Xylene	10.640	106	654724	114.366	ug/l	91
69) Styrene	10.658	104	1109685	118.448	ug/l	94
70) Isopropylbenzene	10.963	105	1707168	116.585	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	560686	123.068	ug/l	97
72) 1,2,3-Trichloropropane	11.237	75	530019m	128.071	ug/l	
73) Bromobenzene	11.195	156	408970	105.316	ug/l	80
74) n-propylbenzene	11.304	91	2008730	120.340	ug/l	97
75) 2-Chlorotoluene	11.365	91	1237485	123.338	ug/l	93
76) 1,3,5-Trimethylbenzene	11.451	105	1456636	120.099	ug/l	96
77) t-1,4-Dichloro-2-butene	11.018	75	183029	146.873	ug/l	98
78) 4-Chlorotoluene	11.457	91	1450606	128.293	ug/l	93
79) tert-butylbenzene	11.713	119	1387440	113.273	ug/l	91
80) 1,2,4-Trimethylbenzene	11.750	105	1450089	120.375	ug/l	97
81) sec-Butylbenzene	11.890	105	1691560	113.680	ug/l	97
82) p-Isopropyltoluene	12.012	119	1456977	113.999	ug/l	94
83) 1,3-Dichlorobenzene	11.969	146	780018	110.199	ug/l	96
84) 1,4-Dichlorobenzene	12.042	146	799189	112.672	ug/l	96
85) n-Butylbenzene	12.335	91	1273277	121.074	ug/l	98
86) Hexachloroethane	12.536	117	264114	130.938	ug/l	75
87) 1,2-Dichlorobenzene	12.335	146	756305	110.550	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	12.944	75	133921	145.109	ug/l #	73
89) 1,2,4-Trichlorobenzene	13.591	180	463560	100.248	ug/l	97
90) Hexachlorobutadiene	13.725	225	179631	85.272	ug/l	98
91) Naphthalene	13.774	128	1618310	114.396	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	456210	100.037	ug/l	97

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

