

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071523\
 Data File : VX036550.D
 Acq On : 14 Jul 2023 09:47
 Operator : JC/MD
 Sample : VX0715WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0715WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/17/2023
 Supervised By : Semsettin Yesilyurt 07/17/2023

Quant Time: Jul 17 01:26:12 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	4.898	128	35438	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	199985	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	179842	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	84434	28.707	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	95.700%	
60) 4-Bromofluorobenzene	11.079	95	88410	30.306	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	101.033%	
63) Toluene-d8	8.647	98	253869	30.677	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	102.267%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	38801	19.596	ug/l	98
3) Chloromethane	1.295	50	46466	17.153	ug/l	99
4) Vinyl Chloride	1.374	62	49910	17.868	ug/l	99
5) Bromomethane	1.612	94	49777	17.401	ug/l	100
6) Chloroethane	1.685	64	34755	18.280	ug/l	98
7) Trichlorofluoromethane	1.892	101	86017	18.981	ug/l	98
8) Diethyl Ether	2.136	74	32457	17.237	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.331	101	39245	19.127	ug/l	97
10) 1,1-Dichloroethene	2.319	96	37500	18.083	ug/l	92
11) Methyl Iodide	2.453	142	41400	17.519	ug/l	99
12) Methyl Acetate	2.703	43	80377	16.489	ug/l	93
13) Acrolein	2.246	56	24295	60.754	ug/l	95
14) Acrylonitrile	3.063	53	112264	82.163	ug/l	98
15) Acetone	2.386	58	31249	80.781	ug/l	97
16) Carbon Disulfide	2.514	76	93730	18.629	ug/l	99
17) Allyl chloride	2.666	41	62865	17.088	ug/l	97
18) Methylene Chloride	2.788	84	43181	17.293	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	40678	17.946	ug/l	89
20) Diisopropyl ether	3.757	45	132254	17.639	ug/l	89
21) 1,1-Dichloroethane	3.611	63	76884	17.588	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	48107	17.634	ug/l	100
23) tert-Butyl Alcohol	2.971	59	48894	77.059	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	131710	17.465	ug/l	99
25) Chloroform	5.093	83	80397	17.790	ug/l	95
26) Cyclohexane	5.471	56	65323	19.478	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	60281	19.989	ug/l	97
30) 2-Butanone	4.556	43	157900	83.157	ug/l	99
31) 2,2-Dichloropropane	4.471	77	60216	18.208	ug/l	100
32) 1,1,1-Trichloroethane	5.385	97	67036	18.707	ug/l	99
33) Carbon Tetrachloride	5.672	117	56979	18.638	ug/l	96
34) Benzene	6.038	78	169942	18.282	ug/l	98
35) Methacrylonitrile	4.916	41	34280	17.400	ug/l	97
36) 1,2-Dichloroethane	6.086	62	64509	18.074	ug/l	99
37) Trichloroethene	7.123	130	45180	18.467	ug/l	97
38) Methylcyclohexane	7.379	83	72474	20.658	ug/l	98
39) 1,2-Dichloropropane	7.428	63	44649	17.720	ug/l	92
40) Dibromomethane	7.580	93	31715	17.377	ug/l	98
41) Bromodichloromethane	7.824	83	58447	17.645	ug/l	98
42) Vinyl Acetate	3.721	43	503933	87.863	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	62015	16.778	ug/l	98
44) Isopropyl Acetate	6.336	43	100179	16.995	ug/l	97
45) 1,4-Dioxane	7.678	88	21849	326.554	ug/l #	1
46) Methyl methacrylate	7.690	41	48318	17.151	ug/l	92
47) n-amyl Acetate	10.842	43	86583	17.318	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	62289	17.145	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	68694	17.504	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	44651	18.022	ug/l	96
51) Ethyl methacrylate	9.116	69	68072	17.500	ug/l	98
52) 1,3-Dichloropropane	9.311	76	76964	18.407	ug/l	97
53) Dibromochloromethane	9.519	129	44430	17.766	ug/l	99
54) 1,2-Dibromoethane	9.610	107	47424	18.221	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	183518	87.725	ug/l	100
56) Bromoform	10.799	173	29407	16.902	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	324293	87.202	ug/l	100
59) 2-Hexanone	9.427	43	245487	86.769	ug/l	99
61) Tetrachloroethene	9.275	164	40453	18.780	ug/l	96
62) Toluene	8.720	91	185985	18.432	ug/l	97
64) Chlorobenzene	10.080	112	114135	18.169	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	41566	18.321	ug/l	97
66) Ethyl Benzene	10.195	91	205811	18.767	ug/l	96
67) m/p-Xylenes	10.299	106	160984	37.655	ug/l	100
68) o-Xylene	10.640	106	78396	18.476	ug/l	96
69) Styrene	10.659	104	126625	18.406	ug/l	98
70) Isopropylbenzene	10.964	105	203544	19.260	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	69039	17.899	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	64004m	17.907	ug/l	
73) Bromobenzene	11.195	156	48344	18.506	ug/l	98
74) n-propylbenzene	11.305	91	243464	19.574	ug/l	100
75) 2-Chlorotoluene	11.366	91	144968	19.166	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	171344	18.868	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	18555	15.809	ug/l	98
78) 4-Chlorotoluene	11.451	91	163452	18.979	ug/l	100
79) tert-butylbenzene	11.713	119	165807	19.237	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	172434	19.163	ug/l	100
81) sec-Butylbenzene	11.890	105	216279	19.936	ug/l	99
82) p-Isopropyltoluene	12.006	119	177585	19.675	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	90360	18.596	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	90474	18.685	ug/l	100
85) n-Butylbenzene	12.329	91	161103	19.608	ug/l	100
86) Hexachloroethane	12.536	117	26984	18.057	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	90426	18.553	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.939	75	14451	16.662	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	55994	18.218	ug/l	100
90) Hexachlorobutadiene	13.725	225	22717	20.349	ug/l	98
91) Naphthalene	13.774	128	190286	17.644	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	55934	18.030	ug/l	99

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

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