

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032224\
 Data File : VX040770.D
 Acq On : 22 Mar 2024 10:50
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Mar 23 05:01:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

03/25/2024
 Supervised By :Semsettin
 Yesilyurt

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

Internal Standards						
1) Bromochloromethane	4.897	128	17513	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	96546	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	92083	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	49023	28.028	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	93.433%
60) 4-Bromofluorobenzene	11.079	95	46969	29.737	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.133%
63) Toluene-d8	8.647	98	124111	30.499	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.667%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	20047	16.877	ug/l	96
3) Chloromethane	1.300	50	18276	15.017	ug/l	98
4) Vinyl Chloride	1.374	62	19374	14.730	ug/l	97
5) Bromomethane	1.611	94	13497	16.802	ug/l	98
6) Chloroethane	1.691	64	12084	15.638	ug/l	98
7) Trichlorofluoromethane	1.892	101	34696	17.326	ug/l	98
8) Diethyl Ether	2.136	74	12117	17.821	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	19604	17.872	ug/l	96
10) 1,1-Dichloroethene	2.319	96	17549	16.804	ug/l	98
11) Methyl Iodide	2.453	142	25976	20.565	ug/l	92
12) Methyl Acetate	2.697	43	31406	18.256	ug/l	97
13) Acrolein	2.233	56	27688	85.373	ug/l	98
14) Acrylonitrile	3.056	53	58651	86.582	ug/l	98
15) Acetone	2.373	58	15807	81.635	ug/l	69
16) Carbon Disulfide	2.514	76	45153	15.731	ug/l #	93
17) Allyl chloride	2.666	41	32816	17.027	ug/l	87
18) Methylene Chloride	2.788	84	21319	17.880	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	19756	17.327	ug/l	97
20) Diisopropyl ether	3.751	45	68591	17.796	ug/l #	81
21) 1,1-Dichloroethane	3.605	63	38653	17.427	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	23199	17.521	ug/l	95
23) tert-Butyl Alcohol	2.940	59	25558	79.854	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	69025	17.909	ug/l	97
25) Chloroform	5.086	83	43518	17.927	ug/l	95
26) Cyclohexane	5.464	56	31402	17.543	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	29749	17.802	ug/l	83
30) 2-Butanone	4.544	43	87079	85.391	ug/l #	96
31) 2,2-Dichloropropane	4.477	77	33809	18.744	ug/l	96
32) 1,1,1-Trichloroethane	5.385	97	38417	18.244	ug/l	97
33) Carbon Tetrachloride	5.678	117	32807	18.517	ug/l	94
34) Benzene	6.037	78	82167	18.213	ug/l	99
35) Methacrylonitrile	4.910	41	18356	17.534	ug/l	91
36) 1,2-Dichloroethane	6.086	62	36942	17.711	ug/l #	95
37) Trichloroethene	7.123	130	21743	17.935	ug/l	97
38) Methylcyclohexane	7.379	83	32044	17.807	ug/l	94
39) 1,2-Dichloropropane	7.427	63	21575	18.783	ug/l	97
40) Dibromomethane	7.574	93	17313	19.186	ug/l	98
41) Bromodichloromethane	7.818	83	33818	18.838	ug/l #	98
42) Vinyl Acetate	3.715	43	321117	91.459	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	32853	17.106	ug/l	97
44) Isopropyl Acetate	6.330	43	54249	17.696	ug/l	96
45) 1,4-Dioxane	7.647	88	10024	318.093	ug/l	98
46) Methyl methacrylate	7.690	41	27667	18.170	ug/l	95
47) n-amyl Acetate	10.841	43	47163	17.850	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	35596	18.760	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	36822	19.050	ug/l	95
50) 1,1,2-Trichloroethane	9.147	97	21470	17.912	ug/l	97
51) Ethyl methacrylate	9.110	69	33378	17.688	ug/l	96
52) 1,3-Dichloropropane	9.305	76	36864	18.024	ug/l	99
53) Dibromochloromethane	9.518	129	23818	17.431	ug/l	97
54) 1,2-Dibromoethane	9.604	107	23090	17.409	ug/l	96
55) 2-Chloroethyl vinyl ether	8.238	63	98762	102.772	ug/l	99
56) Bromoform	10.799	173	16391	16.912	ug/l	97
58) 4-Methyl-2-Pentanone	8.567	43	183523	89.503	ug/l	98
59) 2-Hexanone	9.427	43	135330	81.710	ug/l	96
61) Tetrachloroethene	9.269	164	17152	15.693	ug/l	95
62) Toluene	8.714	91	92055	18.151	ug/l	98
64) Chlorobenzene	10.079	112	57405	18.519	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	21372	18.077	ug/l	97
66) Ethyl Benzene	10.189	91	105966	18.122	ug/l	98
67) m/p-Xylenes	10.299	106	77888	36.070	ug/l	95
68) o-Xylene	10.640	106	37262	17.925	ug/l	99
69) Styrene	10.652	104	60004	17.181	ug/l	98
70) Isopropylbenzene	10.957	105	98736	17.579	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	35017	17.783	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	30698m	17.326	ug/l	
73) Bromobenzene	11.195	156	23671	17.802	ug/l	94
74) n-propylbenzene	11.305	91	125468	18.086	ug/l	100
75) 2-Chlorotoluene	11.360	91	73692	17.901	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	84837	17.156	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	10467	19.010	ug/l	81
78) 4-Chlorotoluene	11.451	91	86629	17.640	ug/l	99
79) tert-butylbenzene	11.713	119	82195	17.809	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	85638	17.577	ug/l	99
81) sec-Butylbenzene	11.890	105	106311	17.446	ug/l	99
82) p-Isopropyltoluene	12.006	119	87873	17.617	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	47042	18.181	ug/l	95
84) 1,4-Dichlorobenzene	12.036	146	46433	17.549	ug/l	100
85) n-Butylbenzene	12.329	91	85592	17.635	ug/l	99
86) Hexachloroethane	12.536	117	14576	16.748	ug/l	91
87) 1,2-Dichlorobenzene	12.335	146	44355	17.641	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	8395	15.944	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	30953	18.284	ug/l	99
90) Hexachlorobutadiene	13.725	225	11988	17.513	ug/l	95
91) Naphthalene	13.774	128	98146	17.773	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	29208	17.498	ug/l	98

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

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