

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112423\
 Data File : VX039019.D
 Acq On : 24 Nov 2023 12:52
 Operator : JC/MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC010

Quant Time: Nov 27 03:09:38 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:05:03 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone

11/27/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.891	128	13774	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	116132	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	139691	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	60364	32.034	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	106.767%
60) 4-Bromofluorobenzene	11.079	95	89753	29.417	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.067%
63) Toluene-d8	8.647	98	168575	30.523	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.733%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	25044	12.148	ug/l	98
3) Chloromethane	1.294	50	28381	12.023	ug/l	96
4) Vinyl Chloride	1.374	62	29608	12.424	ug/l	97
5) Bromomethane	1.611	94	19542	13.407	ug/l	100
6) Chloroethane	1.691	64	17276	12.062	ug/l	95
7) Trichlorofluoromethane	1.886	101	40376	12.275	ug/l	96
8) Diethyl Ether	2.130	74	15428	12.219	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	22881	12.310	ug/l	99
10) 1,1-Dichloroethene	2.319	96	22625	12.076	ug/l	99
11) Methyl Iodide	2.453	142	26307	12.814	ug/l	95
12) Methyl Acetate	2.697	43	67218	11.503	ug/l	100
13) Acrolein	2.233	56	27986	54.670	ug/l	98
14) Acrylonitrile	3.056	53	85301	59.685	ug/l	99
15) Acetone	2.373	58	31934	61.470	ug/l	99
16) Carbon Disulfide	2.514	76	69553	12.257	ug/l	98
17) Allyl chloride	2.666	41	45072	12.118	ug/l	99
18) Methylene Chloride	2.788	84	27367	12.323	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	25600	12.081	ug/l	93
20) Diisopropyl ether	3.751	45	84578	11.949	ug/l	98
21) 1,1-Dichloroethane	3.605	63	45697	11.612	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	28883	11.761	ug/l	98
23) tert-Butyl Alcohol	2.940	59	46449	58.705	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	82255	11.918	ug/l	98
25) Chloroform	5.086	83	46465	11.764	ug/l	98
26) Cyclohexane	5.464	56	42974	12.065	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	35907	11.030	ug/l	99
30) 2-Butanone	4.544	43	136470	55.678	ug/l	100
31) 2,2-Dichloropropane	4.471	77	41843	11.241	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	41282	10.971	ug/l	100
33) Carbon Tetrachloride	5.672	117	34650	10.932	ug/l	99
34) Benzene	6.031	78	103206	10.883	ug/l	97
35) Methacrylonitrile	4.910	41	23825	10.973	ug/l	97
36) 1,2-Dichloroethane	6.080	62	38590	11.090	ug/l	99
37) Trichloroethene	7.123	130	25964	10.787	ug/l	99
38) Methylcyclohexane	7.372	83	44148	10.884	ug/l	98
39) 1,2-Dichloropropane	7.421	63	27690	11.071	ug/l	97
40) Dibromomethane	7.574	93	19393	10.974	ug/l	98
41) Bromodichloromethane	7.818	83	36961	10.887	ug/l #	99
42) Vinyl Acetate	3.715	43	328914	56.341	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	47417	11.245	ug/l	99
44) Isopropyl Acetate	6.330	43	72951	10.974	ug/l	98
45) 1,4-Dioxane	7.653	88	15114	222.718	ug/l	95
46) Methyl methacrylate	7.690	41	41258	10.855	ug/l	98
47) n-amyl Acetate	10.841	43	58271	10.357	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	42326	10.752	ug/l	97
49) cis-1,3-Dichloropropene	8.360	75	43622	10.742	ug/l	95
50) 1,1,2-Trichloroethane	9.147	97	26604	11.082	ug/l	96
51) Ethyl methacrylate	9.116	69	32918	10.955	ug/l	89
52) 1,3-Dichloropropane	9.305	76	44497	10.810	ug/l	99
53) Dibromochloromethane	9.518	129	27416	10.634	ug/l	100
54) 1,2-Dibromoethane	9.604	107	28085	10.668	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	91820	48.235	ug/l	99
56) Bromoform	10.799	173	18593	9.993	ug/l	98
58) 4-Methyl-2-Pentanone	8.567	43	242075	57.146	ug/l	100
59) 2-Hexanone	9.427	43	198787	57.169	ug/l	99
61) Tetrachloroethene	9.268	164	20832	11.470	ug/l	89
62) Toluene	8.714	91	113575	11.452	ug/l	100
64) Chlorobenzene	10.079	112	67303	11.156	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.159	131	24282	11.176	ug/l	99
66) Ethyl Benzene	10.189	91	127816	11.318	ug/l	100
67) m/p-Xylenes	10.299	106	93791	22.476	ug/l	97
68) o-Xylene	10.640	106	45423	11.237	ug/l	100
69) Styrene	10.652	104	64919	10.852	ug/l	99
70) Isopropylbenzene	10.957	105	120813	11.171	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	44489	11.019	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	39204m	8.450	ug/l	
73) Bromobenzene	11.195	156	28006	11.374	ug/l	95
74) n-propylbenzene	11.305	91	148372	11.197	ug/l	99
75) 2-Chlorotoluene	11.360	91	87913	11.308	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	103669	11.126	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	14473	10.691	ug/l	96
78) 4-Chlorotoluene	11.451	91	102377	11.201	ug/l	100
79) tert-butylbenzene	11.713	119	98661	11.136	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	104850	11.244	ug/l	98
81) sec-Butylbenzene	11.890	105	124231	11.092	ug/l	99
82) p-Isopropyltoluene	12.006	119	103948	10.951	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	52077	11.051	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	53933	11.154	ug/l	100
85) n-Butylbenzene	12.329	91	101998	10.882	ug/l	98
86) Hexachloroethane	12.536	117	18568	10.324	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	50246	11.089	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	11444	11.083	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	34024	11.325	ug/l	97
90) Hexachlorobutadiene	13.725	225	12006	11.192	ug/l	100
91) Naphthalene	13.774	128	119882	10.820	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	32036	11.009	ug/l	97

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

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