

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051524\
 Data File : VX041531.D
 Acq On : 15 May 2024 11:34
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/16/2024
 Supervised By : Mahesh Dadoda 05/16/2024

Quant Time: May 16 04:55:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 04:55:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	28635	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	170653	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	155854	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	72567	32.181	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 107.267%			
60) 4-Bromofluorobenzene	11.079	95	72279	29.708	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.033%			
63) Toluene-d8	8.647	98	204267	30.575	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.933%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	8188	5.467	ug/l	98
3) Chloromethane	1.301	50	8927	5.443	ug/l	99
4) Vinyl Chloride	1.374	62	9548	5.529	ug/l	97
5) Bromomethane	1.599	94	5646	5.141	ug/l	96
6) Chloroethane	1.666	64	5581	6.507	ug/l	95
7) Trichlorofluoromethane	1.868	101	15545	5.931	ug/l	98
8) Diethyl Ether	2.136	74	5222	5.335	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	8000	5.263	ug/l	100
10) 1,1-Dichloroethene	2.313	96	7138	4.872	ug/l	83
11) Methyl Iodide	2.441	142	6801	3.898	ug/l	99
12) Methyl Acetate	2.709	43	12440	5.640	ug/l	98
13) Acrolein	2.239	56	5076	18.897	ug/l	96
14) Acrylonitrile	3.069	53	25403	26.186	ug/l	99
15) Acetone	2.386	58	6925	26.643	ug/l	95
16) Carbon Disulfide	2.502	76	13377	4.044	ug/l	99
17) Allyl chloride	2.660	41	13465	5.179	ug/l	91
18) Methylene Chloride	2.788	84	9520	5.464	ug/l	92
19) trans-1,2-Dichloroethene	3.087	96	8752	5.210	ug/l	95
20) Diisopropyl ether	3.764	45	28211	5.164	ug/l	96
21) 1,1-Dichloroethane	3.605	63	15859	5.173	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	10626	5.205	ug/l	98
23) tert-Butyl Alcohol	2.995	59	11139m	26.666	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	28127	5.142	ug/l	96
25) Chloroform	5.093	83	17334	5.307	ug/l	97
26) Cyclohexane	5.465	56	13780	5.390	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	11007	4.876	ug/l	98
30) 2-Butanone	4.574	43	39377	26.280	ug/l #	98
31) 2,2-Dichloropropane	4.471	77	12237	4.619	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	14874	4.911	ug/l	99
33) Carbon Tetrachloride	5.672	117	11764	4.539	ug/l	98
34) Benzene	6.032	78	35448	4.972	ug/l	96
35) Methacrylonitrile	4.928	41	7011	4.638	ug/l	98
36) 1,2-Dichloroethane	6.086	62	13416	5.043	ug/l	99
37) Trichloroethene	7.123	130	9755	4.911	ug/l	91
38) Methylcyclohexane	7.373	83	14186	4.949	ug/l	97
39) 1,2-Dichloropropane	7.428	63	8177	4.852	ug/l #	87
40) Dibromomethane	7.586	93	6712	5.060	ug/l	96
41) Bromodichloromethane	7.824	83	11234	4.511	ug/l	96
42) Vinyl Acetate	3.721	43	121430	23.358	ug/l	100

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 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
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Reviewed By : John Carlone 05/16/2024
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	15290	5.289	ug/l	95
44) Isopropyl Acetate	6.349	43	20249	4.633	ug/l	99
45) 1,4-Dioxane	7.671	88	5111m	109.050	ug/l	
46) Methyl methacrylate	7.702	41	9777	4.496	ug/l	96
47) n-amyl Acetate	10.842	43	17095	4.314	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	10356	4.141	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	11612	4.287	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	9149	4.958	ug/l	94
51) Ethyl methacrylate	9.122	69	13350	4.495	ug/l	95
52) 1,3-Dichloropropane	9.311	76	15276	5.010	ug/l	98
53) Dibromochloromethane	9.519	129	8693	4.141	ug/l	99
54) 1,2-Dibromoethane	9.610	107	9409	4.809	ug/l	97
55) 2-Chloroethyl vinyl ether	8.245	63	34784	23.995	ug/l	99
56) Bromoform	10.799	173	6514	3.872	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	72482	25.453	ug/l	100
59) 2-Hexanone	9.433	43	59600	26.272	ug/l	99
61) Tetrachloroethene	9.275	164	9921	5.203	ug/l	90
62) Toluene	8.714	91	39457	5.088	ug/l	99
64) Chlorobenzene	10.080	112	26475	5.026	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	8679	4.655	ug/l	99
66) Ethyl Benzene	10.195	91	41825	4.857	ug/l	98
67) m/p-Xylenes	10.299	106	29202	8.672	ug/l	97
68) o-Xylene	10.640	106	16409	4.841	ug/l	100
69) Styrene	10.659	104	25756	4.532	ug/l	99
70) Isopropylbenzene	10.964	105	41880	4.890	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	14447	4.910	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	13319m	5.131	ug/l	
73) Bromobenzene	11.201	156	12256	4.870	ug/l	98
74) n-propylbenzene	11.305	91	44859	4.645	ug/l	97
75) 2-Chlorotoluene	11.366	91	30266	4.990	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	34458	4.713	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	2868	3.439	ug/l	99
78) 4-Chlorotoluene	11.457	91	32900	4.763	ug/l	99
79) tert-butylbenzene	11.713	119	36309	4.666	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	33975	4.636	ug/l	97
81) sec-Butylbenzene	11.890	105	42668	4.693	ug/l	99
82) p-Isopropyltoluene	12.006	119	35333	4.439	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	21176	4.692	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	21485	4.711	ug/l	98
85) n-Butylbenzene	12.335	91	27013	4.218	ug/l	100
86) Hexachloroethane	12.536	117	5681	4.239	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	22254	4.831	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	2703	4.183	ug/l	99
89) 1,2,4-Trichlorobenzene	13.591	180	13408	4.332	ug/l	99
90) Hexachlorobutadiene	13.725	225	7468	4.945	ug/l	99
91) Naphthalene	13.774	128	40180	4.343	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	14702	4.649	ug/l	100

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

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Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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