

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091622\
 Data File : VX031399.D
 Acq On : 16 Sep 2022 10:14
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2022
 Supervised By : Mahesh Dadoda 09/19/2022

Quant Time: Sep 16 12:31:20 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X091622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 09 02:10:54 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	12494	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	70098	30.000	ug/l	-0.01
57) Chlorobenzene-d5	10.055	117	63138	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	33298	32.684	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.933%			
60) 4-Bromofluorobenzene	11.079	95	32992	27.727	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 92.433%			
63) Toluene-d8	8.647	98	102987	30.081	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.267%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	3856	4.513	ug/l	97
3) Chloromethane	1.288	50	5348	6.003	ug/l	97
4) Vinyl Chloride	1.374	62	5756	5.702	ug/l	97
5) Bromomethane	1.611	94	7916	19.032	ug/l	95
6) Chloroethane	1.685	64	8091	14.966	ug/l	95
7) Trichlorofluoromethane	1.886	101	13939	10.892	ug/l	91
8) Diethyl Ether	2.136	74	4720	8.672	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	5154	5.981	ug/l	88
10) 1,1-Dichloroethene	2.319	96	4599	5.227	ug/l	92
11) Methyl Iodide	2.453	142	4148	12.748	ug/l	94
12) Methyl Acetate	2.703	43	6763	4.720	ug/l #	86
13) Acrolein	2.239	56	4956	29.441	ug/l	100
14) Acrylonitrile	3.069	53	12817	20.783	ug/l	99
15) Acetone	2.386	58	4236	25.287	ug/l	89
16) Carbon Disulfide	2.508	76	11464	4.991	ug/l	99
17) Allyl chloride	2.666	41	6944	4.478	ug/l	92
18) Methylene Chloride	2.788	84	5402	5.270	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	4901	5.133	ug/l	84
20) Diisopropyl ether	3.764	45	14956	4.815	ug/l	93
21) 1,1-Dichloroethane	3.611	63	8439	5.047	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	5835	5.147	ug/l	99
23) tert-Butyl Alcohol	2.947	59	9355m	33.113	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	15226	5.364	ug/l	95
25) Chloroform	5.099	83	9157	5.495	ug/l	93
26) Cyclohexane	5.471	56	7571	4.887	ug/l #	67
29) 1,1-Dichloropropene	5.696	75	6736	5.617	ug/l	88
30) 2-Butanone	4.562	43	19779m	24.437	ug/l	
31) 2,2-Dichloropropane	4.477	77	7424	6.478	ug/l #	87
32) 1,1,1-Trichloroethane	5.385	97	7903	6.129	ug/l	96
33) Carbon Tetrachloride	5.678	117	6872	6.346	ug/l	97
34) Benzene	6.038	78	19651	5.099	ug/l	95
35) Methacrylonitrile	4.922	41	3479	4.247	ug/l	94
36) 1,2-Dichloroethane	6.086	62	7367	6.280	ug/l	99
37) Trichloroethene	7.129	130	5474	5.311	ug/l	85
38) Methylcyclohexane	7.385	83	8062	5.181	ug/l	97
39) 1,2-Dichloropropane	7.434	63	4618	4.708	ug/l #	87
40) Dibromomethane	7.580	93	3620	5.444	ug/l	94
41) Bromodichloromethane	7.824	83	6754	5.686	ug/l	99
42) Vinyl Acetate	3.727	43	62088	23.987	ug/l	99

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 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
 VSTDIC005

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	6813	4.469	ug/l	97
44) Isopropyl Acetate	6.342	43	12060	5.207	ug/l #	83
45) 1,4-Dioxane	7.702	88	2827	103.974	ug/l #	90
46) Methyl methacrylate	7.690	41	5414	4.933	ug/l	91
47) n-amyl Acetate	10.848	43	9154	4.601	ug/l	94
48) t-1,3-Dichloropropene	8.982	75	6850	5.219	ug/l	92
49) cis-1,3-Dichloropropene	8.366	75	7624	5.172	ug/l	92
50) 1,1,2-Trichloroethane	9.153	97	5146	5.224	ug/l #	93
51) Ethyl methacrylate	9.116	69	6943	4.529	ug/l	95
52) 1,3-Dichloropropane	9.311	76	8759	5.528	ug/l	98
53) Dibromochloromethane	9.525	129	4893	5.366	ug/l	99
54) 1,2-Dibromoethane	9.610	107	5217	5.100	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	17511	22.160	ug/l	98
56) Bromoform	10.799	173	3251	5.093	ug/l #	96
58) 4-Methyl-2-Pentanone	8.574	43	37186	23.844	ug/l	97
59) 2-Hexanone	9.433	43	28529	23.651	ug/l	95
61) Tetrachloroethene	9.275	164	5227	5.514	ug/l	95
62) Toluene	8.720	91	21592	5.141	ug/l	96
64) Chlorobenzene	10.079	112	13604	5.424	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	4718	5.394	ug/l	97
66) Ethyl Benzene	10.195	91	23203	5.199	ug/l	99
67) m/p-Xylenes	10.305	106	18599	10.739	ug/l	98
68) o-Xylene	10.640	106	8767	5.083	ug/l	97
69) Styrene	10.659	104	13673	4.791	ug/l	98
70) Isopropylbenzene	10.963	105	23186	5.339	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	7812	4.947	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	6833m	4.814	ug/l	
73) Bromobenzene	11.201	156	5773	5.544	ug/l	99
74) n-propylbenzene	11.305	91	26677	5.121	ug/l	98
75) 2-Chlorotoluene	11.366	91	15771	5.141	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	19418	5.326	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	1880	3.851	ug/l	96
78) 4-Chlorotoluene	11.457	91	17675	5.134	ug/l	97
79) tert-butylbenzene	11.713	119	19034	5.366	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	18889	5.040	ug/l	99
81) sec-Butylbenzene	11.890	105	23745	4.946	ug/l	100
82) p-Isopropyltoluene	12.012	119	19084	4.938	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	10786	5.354	ug/l	96
84) 1,4-Dichlorobenzene	12.043	146	10213	4.999	ug/l	99
85) n-Butylbenzene	12.335	91	15834	4.366	ug/l	97
86) Hexachloroethane	12.536	117	3318	5.167	ug/l	82
87) 1,2-Dichlorobenzene	12.335	146	10469	5.262	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1385	3.846	ug/l	93
89) 1,2,4-Trichlorobenzene	13.591	180	6098	4.951	ug/l	99
90) Hexachlorobutadiene	13.725	225	2561	5.482	ug/l	95
91) Naphthalene	13.780	128	21398	4.358	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	6297	5.019	ug/l	99

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

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