

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021933.D
 Acq On : 12 May 2021 17:48
 Operator : JC/MD
 Sample : VSTDIC010
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

MMDadoda
 5/13/2021 4:07:09 PM

Quant Time: May 13 05:58:46 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 05:56:15 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	19190	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	111734	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.061	117	95323	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	43353	29.33	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	97.77%	
60) 4-Bromofluorobenzene	11.085	95	47346	29.93	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	99.77%	
63) Toluene-d8	8.653	98	132616	30.44	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	101.47%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	10451	9.23	ug/l	100
3) Chloromethane	1.294	50	12695	9.33	ug/l	98
4) Vinyl Chloride	1.374	62	12493	8.84	ug/l	92
5) Bromomethane	1.611	94	7451	9.37	ug/l	98
6) Chloroethane	1.691	64	7885	8.67	ug/l	92
7) Trichlorofluoromethane	1.892	101	17230	8.73	ug/l	94
8) Diethyl Ether	2.136	74	7235	8.54	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.337	101	10046	8.87	ug/l	97
10) 1,1-Dichloroethene	2.325	96	9864	8.65	ug/l	93
11) Methyl Iodide	2.459	142	8962	7.90	ug/l	92
12) Methyl Acetate	2.709	43	14207	9.01	ug/l	97
13) Acrolein	2.239	56	10801	44.16	ug/l	93
14) Acrylonitrile	3.069	53	27876	43.32	ug/l	97
15) Acetone	2.392	58	8672	45.14	ug/l	75
16) Carbon Disulfide	2.514	76	26578	8.52	ug/l	99
17) Allyl chloride	2.666	41	17648	8.78	ug/l	97
18) Methylene Chloride	2.794	84	12168	8.97	ug/l	93
19) trans-1,2-Dichloroethene	3.099	96	11004	8.88	ug/l	96
20) Diisopropyl ether	3.764	45	32326	8.53	ug/l #	85
21) 1,1-Dichloroethane	3.617	63	19918	8.78	ug/l	95
22) cis-1,2-Dichloroethene	4.495	96	12992	8.92	ug/l	97
23) tert-Butyl Alcohol	2.971	59	13923	44.51	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	32387	8.72	ug/l	100
25) Chloroform	5.105	83	20170	8.77	ug/l	97
26) Cyclohexane	5.483	56	15738	8.40	ug/l #	97
29) 1,1-Dichloropropene	5.702	75	15068	8.62	ug/l	96
30) 2-Butanone	4.568	43	43607	44.05	ug/l	100
31) 2,2-Dichloropropane	4.489	77	17752	8.64	ug/l	99
32) 1,1,1-Trichloroethane	5.397	97	17940	8.70	ug/l	97
33) Carbon Tetrachloride	5.684	117	14943	8.53	ug/l	88
34) Benzene	6.044	78	46739	8.76	ug/l #	96
35) Methacrylonitrile	4.934	41	8943	8.44	ug/l	86
36) 1,2-Dichloroethane	6.092	62	15817	8.68	ug/l	98
37) Trichloroethene	7.135	130	11488	8.57	ug/l	92
38) Methylcyclohexane	7.385	83	16418	8.27	ug/l	94
39) 1,2-Dichloropropane	7.440	63	11214	8.42	ug/l	94
40) Dibromomethane	7.586	93	8103	8.74	ug/l	98
41) Bromodichloromethane	7.830	83	15573	8.41	ug/l	98
42) Vinyl Acetate	3.727	43	157065	42.49	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	17712	10.20	ug/l	96
44) Isopropyl Acetate	6.348	43	28372	8.55	ug/l	98
45) 1,4-Dioxane	7.671	88	5393	182.07	ug/l #	100
46) Methyl methacrylate	7.696	41	12836	8.35	ug/l	92
47) n-amyl Acetate	10.848	43	23143	8.39	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	17697	8.52	ug/l	98
49) cis-1,3-Dichloropropene	8.372	75	18947	8.50	ug/l	96
50) 1,1,2-Trichloroethane	9.159	97	11357	8.61	ug/l	95
51) Ethyl methacrylate	9.122	69	18199	8.55	ug/l	99
52) 1,3-Dichloropropane	9.311	76	19340	8.41	ug/l	98
53) Dibromochloromethane	9.525	129	11289	8.52	ug/l	96
54) 1,2-Dibromoethane	9.616	107	11632	8.58	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	47886	42.64	ug/l	99
56) Bromoform	10.805	173	7088	8.43	ug/l	97
58) 4-Methyl-2-Pentanone	8.580	43	85630	44.55	ug/l	99
59) 2-Hexanone	9.433	43	64180	45.08	ug/l	97
61) Tetrachloroethene	9.275	164	9933	9.19	ug/l #	88
62) Toluene	8.720	91	48108	8.81	ug/l	100
64) Chlorobenzene	10.079	112	29577	9.06	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.165	131	10169	8.54	ug/l	100
66) Ethyl Benzene	10.195	91	52776	8.79	ug/l	97
67) m/p-Xylenes	10.305	106	40355	20.32	ug/l	96
68) o-Xylene	10.646	106	19196	8.66	ug/l	95
69) Styrene	10.659	104	32675	8.81	ug/l	97
70) Isopropylbenzene	10.963	105	51190	8.79	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	17006	8.86	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	15524m	6.89	ug/l	
73) Bromobenzene	11.201	156	10741	8.71	ug/l	97
74) n-propylbenzene	11.305	91	57741	8.51	ug/l	97
75) 2-Chlorotoluene	11.366	91	35093	8.73	ug/l	99
76) 1,3,5-Trimethylbenzene	11.457	105	42327	8.71	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	5737	8.32	ug/l	85
78) 4-Chlorotoluene	11.457	91	39084	8.45	ug/l	99
79) tert-butylbenzene	11.719	119	40443	8.70	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	41998	8.65	ug/l	98
81) sec-Butylbenzene	11.896	105	50421	8.63	ug/l	99
82) p-Isopropyltoluene	12.012	119	41894	8.55	ug/l	99
83) 1,3-Dichlorobenzene	11.975	146	20168	8.63	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	19956	8.51	ug/l	100
85) n-Butylbenzene	12.335	91	37062	8.26	ug/l	99
86) Hexachloroethane	12.542	117	6891	8.47	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	19406	8.57	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	3748	8.77	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	11794	8.50	ug/l	92
90) Hexachlorobutadiene	13.725	225	4445	8.28	ug/l	97
91) Naphthalene	13.780	128	45167	8.30	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	11489	8.34	ug/l	96

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

MMDadoda
5/13/2021 4:07:09 PM

Abundance

TIC: VX021933.D\data.ms

Time-->

270000

260000

250000

240000

230000

220000

210000

200000

190000

180000

170000

160000

150000

140000

130000

120000

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100000

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70000

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50000

40000

30000

20000

10000

0

0.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00

Chlorodifluoromethane, M

Chloromethane, M

Bromomethane, M

Trichlorofluoromethane, M

Diethyl Ether, T

Acrolein, M

1,2-Dichloroethane, M

Methyl isobutyl sulfide, M

Methyl Acetate, M

Methylene Chloride, M

tert-Butyl Alcohol, M

1,1-Dichloroethane, M

Diisopropyl ether, T

2-Butanol, M

Ethyl Acetate

Acrylonitrile

Bromochloromethane, I

Chloroform, M

1,1,1-Trichloroethane, M

Carbon tetrachloride, M

1,2-Dichloroethane-d4, s

Isopropyl Acetate

1,4-Difluorobenzene, I

Trichloroethene, M

1,2-Dichlorobenzene, M

1,4-Dioxane

Diisopropyl ether, T

Bromochloromethane, I

1,2-Dichloropropane, T

cis-1,3-Dichloropropene, T

Toluene, M

1,1,3-Dichloropropene, M

1,1,2,2-Tetrachloroethane, M

1,3-Dichloropropane, M

1,2-Dichloroethane, M

1,2-Dibromobenzene, M

1,1,1,2-Tetrachloroethane, M

1,1,2,2-Tetrachloroethane, M

Ethyl Benzene, M

Chlorobenzene-d5, I

m/p-Xylenes, M

4-Bromofluorobenzene, S

4-Ethyltoluene, M

1,2,4-Trimethylbenzene, M

sec-Butyl alcohol, M

1,3-Dichlorobenzene, M

1,4-Dichlorobenzene, M

Isopropyltoluene

Hexachloroethane, T

1,2-Dibromo-3-Chloropropane

1,2,4-Trichlorobenzene

Naphthalene, M

1,2,3-Trichlorobenzene