

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU050421\
 Data File : VU043513.D
 Acq On : 04 May 2021 12:14
 Operator : SY/MD
 Sample : M2195-04MSD
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB3H2MSD

Manual Integrations
 APPROVED

MMDadoda

5/6/2021 11:22:56 AM

Quant Time: May 05 04:53:59 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR050321WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed May 05 04:50:58 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.256	114	79958	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.423	117	76741	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	36624	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	31872	4.95	ug/L	0.00
Spiked Amount 5.000	Range 40 - 130		Recovery = 99.00%			
7) Chloroethane-d5	1.919	69	24895	5.29	ug/L	0.00
Spiked Amount 5.000	Range 65 - 130		Recovery = 105.80%			
11) 1,1-Dichloroethene-d2	2.572	65	14496	4.59	ug/L	0.00
Spiked Amount 5.000	Range 60 - 125		Recovery = 91.80%			
20) 2-Butanone-d5	4.645	46	132139	66.20	ug/L	0.00
Spiked Amount 50.000	Range 40 - 130		Recovery = 132.40%#			
24) Chloroform-d	5.073	84	67683	5.50	ug/L	0.00
Spiked Amount 5.000	Range 70 - 125		Recovery = 110.00%			
26) 1,2-Dichloroethane-d4	5.713	65	42926	5.79	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 115.80%			
32) Benzene-d6	5.735	84	117476	5.66	ug/L	0.00
Spiked Amount 5.000	Range 70 - 125		Recovery = 113.20%			
36) 1,2-Dichloropropane-d6	6.700	67	42427	5.83	ug/L	0.00
Spiked Amount 5.000	Range 60 - 140		Recovery = 116.60%			
41) Toluene-d8	7.906	98	101613	5.33	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 106.60%			
43) trans-1,3-Dichloroprop...	8.185	79	15697	5.34	ug/L	0.00
Spiked Amount 5.000	Range 55 - 130		Recovery = 106.80%			
46) 2-Hexanone-d5	8.642	63	87972	71.42	ug/L	0.00
Spiked Amount 50.000	Range 45 - 130		Recovery = 142.84%#			
56) 1,1,2,2-Tetrachloroeth...	10.764	84	35004	6.00	ug/L	0.00
Spiked Amount 5.000	Range 65 - 120		Recovery = 120.00%			
66) 1,2-Dichlorobenzene-d4	12.201	152	35414	5.42	ug/L	0.00
Spiked Amount 5.000	Range 80 - 120		Recovery = 108.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.388	85	22274	4.12	ug/L	99
3) Chloromethane	1.523	50	31947	5.60	ug/L	95
5) Vinyl chloride	1.607	62	29177	5.39	ug/L	96
6) Bromomethane	1.861	94	16086	6.28	ug/L	99
8) Chloroethane	1.938	64	19124	5.47	ug/L	99
9) Trichlorofluoromethane	2.144	101	39356	4.67	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.588	101	21173	4.07	ug/L	98
12) 1,1-Dichloroethene	2.584	96	22847	5.11	ug/L	96
13) Acetone	2.662	43	96736	72.67	ug/L	97
14) Carbon disulfide	2.800	76	54886	4.91	ug/L	99
15) Methyl Acetate	2.964	43	19073	6.28	ug/L	94
16) Methylene chloride	3.054	84	34037	4.75	ug/L	96
17) Methyl tert-butyl Ether	3.372	73	83733	6.41	ug/L	97
18) trans-1,2-Dichloroethene	3.363	96	24624	5.29	ug/L	99
19) 1,1-Dichloroethane	3.880	63	64647	5.83	ug/L	98
21) 2-Butanone	4.726	43	144002	67.48	ug/L	100
22) cis-1,2-Dichloroethene	4.678	96	33455	6.11	ug/L	96
23) Bromochloromethane	4.986	128	15133	6.21	ug/L	91
25) Chloroform	5.099	83	68988	5.85	ug/L	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.803	62	48798	6.09	ug/L	99
29) 1,1,1-Trichloroethane	5.327	97	48589	5.38	ug/L	99
30) Cyclohexane	5.398	56	32441	4.50	ug/L	99
31) Carbon tetrachloride	5.533	117	36676	4.96	ug/L	99
33) Benzene	5.784	78	121212	5.99	ug/L	100
34) Trichloroethene	6.549	95	32360	6.27	ug/L	99
35) Methylcyclohexane	6.771	83	28571	4.28	ug/L	99
37) 1,2-Dichloropropane	6.800	63	38068	6.31	ug/L	100
38) Bromodichloromethane	7.115	83	47757	6.11	ug/L	95
39) cis-1,3-Dichloropropene	7.613	75	44434	5.55	ug/L	98
40) 4-Methyl-2-pentanone	7.800	43	345927	70.04	ug/L	100
42) Toluene	7.977	91	129852	6.14	ug/L	100
44) trans-1,3-Dichloropropene	8.218	75	41859	5.74	ug/L	97
45) 1,1,2-Trichloroethane	8.407	97	26833	6.44	ug/L	99
47) Tetrachloroethene	8.565	164	1908509	501.85	ug/L	97
48) 2-Hexanone	8.694	43	256989	70.14	ug/L	99
49) Dibromochloromethane	8.816	129	31209m	6.19	ug/L	
50) 1,2-Dibromoethane	8.931	107	24267	6.25	ug/L	98
51) Chlorobenzene	9.452	112	72504	5.39	ug/L	98
52) Ethylbenzene	9.578	91	118203	5.27	ug/L	99
53) m,p-Xylene	9.700	106	43698	5.36	ug/L	94
54) o-Xylene	10.108	106	42968	5.43	ug/L	98
55) Styrene	10.121	104	67819	4.89	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.790	83	35999	6.40	ug/L	97
59) Bromoform	10.298	173	17773	6.67	ug/L	100
60) Isopropylbenzene	10.491	105	105764	5.30	ug/L	99
61) 1,2,3-Trichloropropane	10.832	75	26053	7.03	ug/L	98
62) 1,3,5-Trimethylbenzene	11.095	105	83496	5.32	ug/L	98
63) 1,2,4-Trimethylbenzene	11.475	105	87159	5.55	ug/L	99
64) 1,3-Dichlorobenzene	11.751	146	56169	5.68	ug/L	98
65) 1,4-Dichlorobenzene	11.845	146	56096	5.52	ug/L	99
67) 1,2-Dichlorobenzene	12.221	146	56960	5.72	ug/L	99
68) 1,2-Dibromo-3-chloropr...	13.005	75	6060	6.86	ug/L	94
69) 1,3,5-Trichlorobenzene	13.227	180	39996	5.11	ug/L	98
70) 1,2,4-trichlorobenzene	13.848	180	34271	5.31	ug/L	99
71) Naphthalene	14.095	128	69125	6.21	ug/L	98
72) 1,2,3-Trichlorobenzene	14.336	180	34289	5.66	ug/L	97

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

5/6/2021 11:22:56 AM

Chromatogram Data (Approximate Peak Retention Times and Labels):

Retention Time (min)	Chemical Label
2.00	1,1-Dichloroethane, T
2.10	1,1,1-Trichloroethane, T
2.20	1,1,2-Trichloroethane, T
2.30	1,1,2,2-Tetrachloroethane, T
2.40	1,1,2,2,3-Pentachloroethane, T
2.50	1,1,2,2,3,3-Hexachloroethane, T
2.60	1,1,2,2,3,3,4-Heptachloroethane, T
2.70	1,1,2,2,3,3,4,4-Octachloroethane, T
2.80	1,1,2,2,3,3,4,4,5-Nonachloroethane, T
2.90	1,1,2,2,3,3,4,4,5,6-Decachloroethane, T
3.00	1,1,2,2,3,3,4,4,5,6,7-Undecachloroethane, T
3.10	1,1,2,2,3,3,4,4,5,6,7,8-Dodecachloroethane, T
3.20	1,1,2,2,3,3,4,4,5,6,7,8,9-Tridecachloroethane, T
3.30	1,1,2,2,3,3,4,4,5,6,7,8,9,10-Tetradecachloroethane, T
3.40	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11-Pentadecachloroethane, T
3.50	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12-Hexadecachloroethane, T
3.60	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13-Heptadecachloroethane, T
3.70	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14-Octadecachloroethane, T
3.80	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15-Nonadecachloroethane, T
3.90	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16-Eicadecachloroethane, T
4.00	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17-Tricadecachloroethane, T
4.10	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18-Tetradecachloroethane, T
4.20	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19-Pentadecachloroethane, T
4.30	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20-Hexadecachloroethane, T
4.40	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21-Heptadecachloroethane, T
4.50	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22-Octadecachloroethane, T
4.60	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23-Nonadecachloroethane, T
4.70	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24-Decachloroethane, T
4.80	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25-Undecachloroethane, T
4.90	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26-Dodecachloroethane, T
5.00	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27-Tridecachloroethane, T
5.10	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28-Tetradecachloroethane, T
5.20	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29-Pentadecachloroethane, T
5.30	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30-Hexadecachloroethane, T
5.40	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31-Heptadecachloroethane, T
5.50	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32-Octadecachloroethane, T
5.60	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33-Nonadecachloroethane, T
5.70	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34-Decachloroethane, T
5.80	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35-Undecachloroethane, T
5.90	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36-Dodecachloroethane, T
6.00	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37-Tridecachloroethane, T
6.10	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38-Tetradecachloroethane, T
6.20	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39-Pentadecachloroethane, T
6.30	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40-Hexadecachloroethane, T
6.40	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41-Heptadecachloroethane, T
6.50	1,1,2,2,3,3,4,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,