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Data File   : VU035207.D
Acq On      : 17 Oct 2019   12:12
Operator    : JC/SP
Sample      : VSTD0.506
Misc        : 25.0mL/MSVOA_U/WATER
ALS Vial    : 9      Sample Multiplier: 1

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Manual Integrations
APPROVED

MMDadoda
10/18/2019 4:10:51 PM

The chromatogram displays a series of peaks over a 17-minute period. The y-axis represents Abundance, ranging from 0 to 700,000. The x-axis represents Time in minutes, ranging from 0.00 to 17.00. Numerous chemical compounds are identified and labeled above their respective peaks, including:

- 1,1-Dichloroethane, T
- 1,1,1-Trichloroethane, T
- 1,1,2-Trichloroethane, T
- 1,1,2,2-Tetrachloroethane, T
- 1,1,2,2,3-Pentachloroethane, T
- 1,1,2,2,3,3-Hexachloroethane, T
- 1,1,2,2,3,3,4-Heptachloroethane, T
- 1,1,2,2,3,3,4,4-Octachloroethane, T
- 1,1,2,2,3,3,4,4,5-Nonachloroethane, T
- 1,1,2,2,3,3,4,4,5,5-Decachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6-Undecachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6-Dodecachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7-Tridecachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8-Tetradecachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9-Pentadecachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10-Hexadecachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11-Heptadecachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12-Octadecachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13-Nonadecachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14-Eicadecachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15-Hentriacontachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16-Tricosacontachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17-Tetracosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18-Pentacosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19-Hexacosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20-Heptacosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21-Octacosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22-Nonacosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23-Triacontachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24-Tetracontachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25-Pentacosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26-Hexacosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27-Heptacosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28-Octacosachloroethane, T
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- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30-Triacontachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31-Tetracontachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32-Pentacosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33-Hexacosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34-Heptacosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35-Octacosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36-Nonacosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37-Triacontachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38-Tetracontachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39-Pentacosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40-Hexacosachloroethane, T
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- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42-Octacosachloroethane, T
- 1,1,2,2,3,3,4,4,5,5,6,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43-Nonacosachloroethane, T
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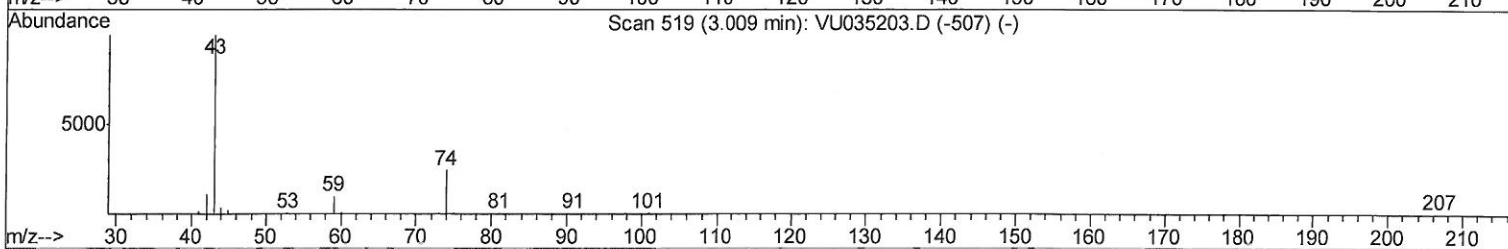
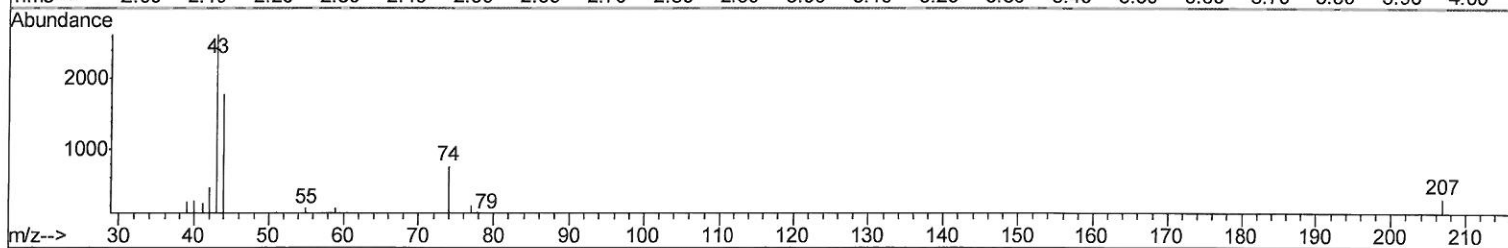
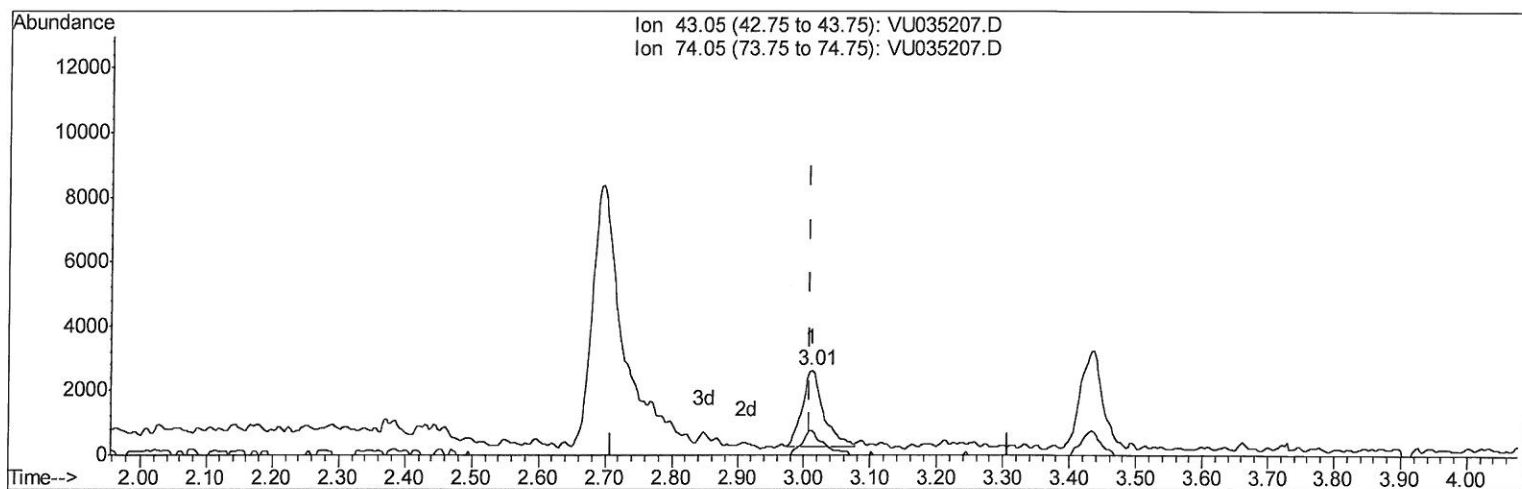
Data File : VU035207.D
Acq On : 17 Oct 2019 12:12
Operator : JC/SP
Sample : VSTD0.506
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.506

Manual Integrations
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10/18/2019 4:10:51 PM

Quant Time: Oct 18 02:14:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 18 02:07:36 2019
Response via : Initial Calibration



TIC: VU035207.D

(15) Methyl Acetate (T)

3.012min (+0.003) 0.36ug/L

response 5149

Ion	Exp%	Act%
43.05	100	100
74.05	25.40	33.58#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101719\
Quantitation Report (Qedit)

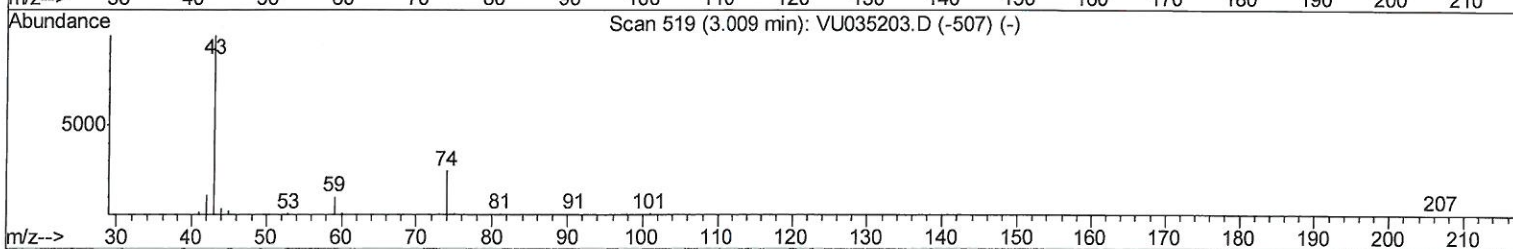
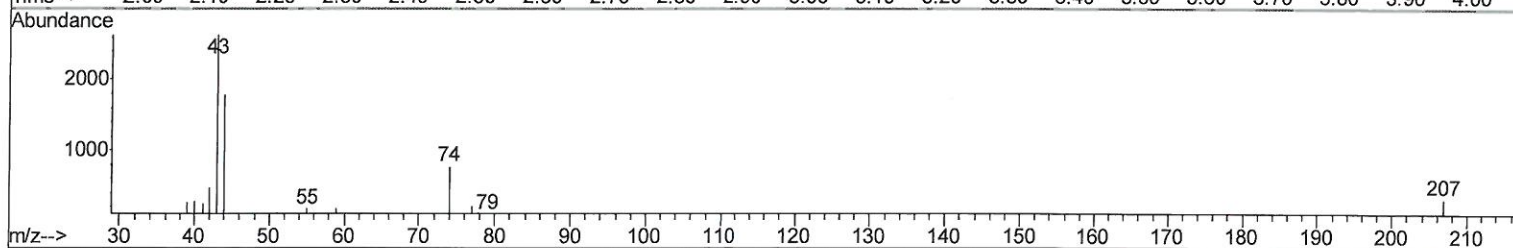
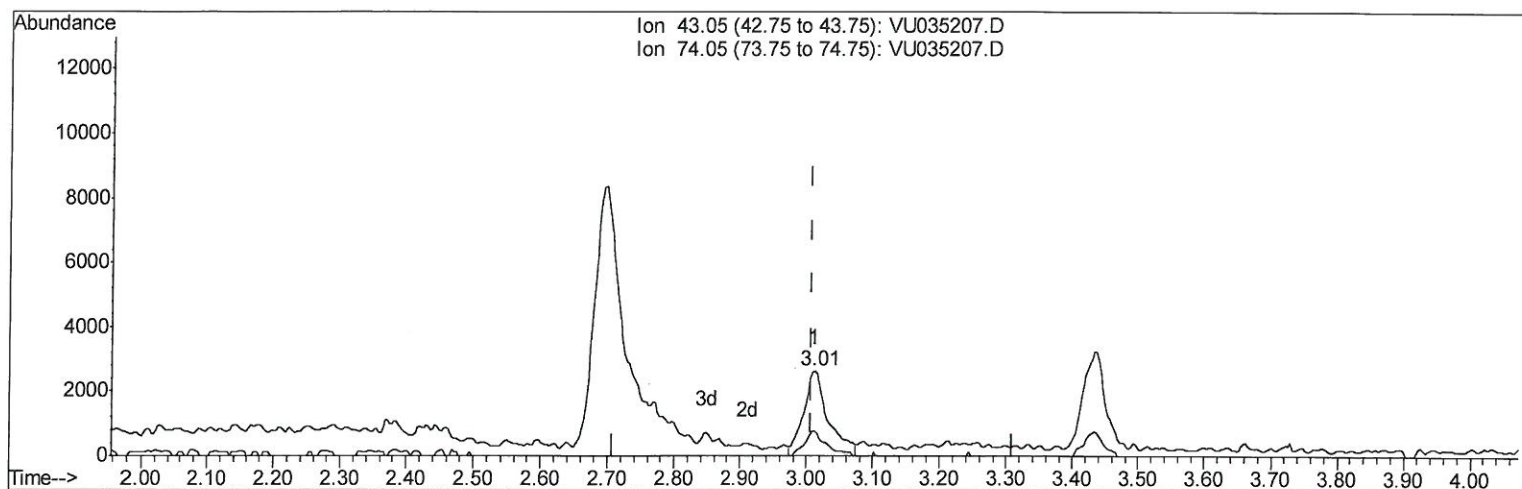
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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 18 02:07:36 2019
Response via : Initial Calibration



TIC: VU035207.D

(15) Methyl Acetate (T)

3.012min (+0.003) 0.48ug/L m

response 6836

Ion	Exp%	Act%
43.05	100	100
74.05	25.40	25.29
0.00	0.00	0.00
0.00	0.00	0.00

7 MO
10/21/19

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101719\

Quantitation Report (QT Reviewed)

Data File : VU035207.D

Acq On : 17 Oct 2019 12:12

Operator : JC/SP

Sample : VSTD0.506

Misc : 25.0mL/MSVOA_U/WATER

ALS Vial : 9 Sample Multiplier: 1

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.506

Manual Integrations

APPROVED

MMDadoda

10/18/2019 4:10:51 PM

Quant Time: Oct 18 02:34:57 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Oct 18 02:07:36 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	389042	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	369610	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	149441	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	12396	0.53	ug/L	0.00
7) Chloroethane-d5	1.93	69	11095	0.51	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.60	63	22215	0.46	ug/L	0.00
20) 2-Butanone-d5	4.72	46	34639	5.01	ug/L	0.00
24) Chloroform-d	5.12	84	22541	0.52	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	12903	0.50	ug/L	0.00
32) Benzene-d6	5.77	84	41622	0.47	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.74	67	13132	0.45	ug/L	0.00
41) Toluene-d8	7.93	98	41026	0.49	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.22	79	6360	0.57	ug/L	0.00
46) 2-Hexanone-d5	8.69	63	27646	5.33	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.79	84	12401	0.50	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.22	152	16948	0.66	ug/L	0.00

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.39	85	16895	0.480	ug/L	99
3) Chloromethane	1.54	50	17679	0.468	ug/L	98
5) Vinyl chloride	1.62	62	17307	0.462	ug/L	100
6) Bromomethane	1.88	94	9893	0.466	ug/L	93
8) Chloroethane	1.95	64	10728	0.475	ug/L	92
9) Trichlorofluoromethane	2.16	101	23415	0.506	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	13268	0.495	ug/L	98
12) 1,1-Dichloroethene	2.61	96	13428	0.537	ug/L	88
13) Acetone	2.70	43	23563	4.319	ug/L	98
14) Carbon disulfide	2.83	76	41634	0.505	ug/L	95
15) Methyl Acetate	3.01	43	6836m	0.480	ug/L	94
16) Methylene chloride	3.09	84	18357	0.597	ug/L	94
17) Methyl tert-butyl Ether	3.43	73	34335	0.500	ug/L	98
18) trans-1,2-Dichloroethene	3.40	96	13671	0.507	ug/L	87
19) 1,1-Dichloroethane	3.92	63	24690	0.471	ug/L	95
21) 2-Butanone	4.80	43	37765	4.809	ug/L	100
22) cis-1,2-Dichloroethene	4.72	96	15380	0.511	ug/L	95
23) Bromochloromethane	5.03	128	6350	0.506	ug/L	93
25) Chloroform	5.14	83	30645	0.522	ug/L	97
27) 1,2-Dichloroethane	5.85	62	17287	0.498	ug/L	99
29) 1,1,1-Trichloroethane	5.37	97	21753	0.517	ug/L	100
30) Cyclohexane	5.43	56	24100	0.524	ug/L	98
31) Carbon tetrachloride	5.57	117	19211	0.525	ug/L	98
33) Benzene	5.82	78	54672	0.491	ug/L	100
34) Trichloroethene	6.58	95	15091	0.523	ug/L	95
35) Methylcyclohexane	6.80	83	24823	0.527	ug/L	99
37) 1,2-Dichloropropane	6.84	63	14310	0.482	ug/L	100
38) Bromodichloromethane	7.15	83	18971	0.530	ug/L	96
39) cis-1,3-Dichloropropene	7.65	75	22651	0.540	ug/L	87
40) 4-Methyl-2-pentanone	7.85	43	98329	5.178	ug/L	99

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10/21/19

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Instrument :
MSVOA_U
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VSTD0.506

Manual Integrations
APPROVED

MMDadoda
10/18/2019 4:10:51 PM

Quant Time: Oct 18 02:34:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 18 02:07:36 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.01	91	60906	0.521	ug/L	98
44) trans-1,3-Dichloropropene	8.25	75	18768	0.573	ug/L	92
45) 1,1,2-Trichloroethane	8.44	97	10526	0.522	ug/L	97
47) Tetrachloroethene	8.58	164	12573	0.534	ug/L	93
48) 2-Hexanone	8.74	43	64868	4.963	ug/L	93
49) Dibromochloromethane	8.84	129	12552	0.531	ug/L	100
50) 1,2-Dibromoethane	8.96	107	10286	0.530	ug/L	98
51) Chlorobenzene	9.48	112	39230	0.516	ug/L	96
52) Ethylbenzene	9.60	91	69529	0.534	ug/L	100
53) m,p-Xylene	9.73	106	26061	0.540	ug/L	98
54) o-Xylene	10.13	106	25224	0.535	ug/L	95
55) Styrene	10.15	104	38368	0.502	ug/L	96
56) Isopropylbenzene	10.51	105	67869	0.538	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.82	83	13235	0.488	ug/L	98
59) 1,2,3-Trichloropropane	10.86	75	9703	0.496	ug/L	93
61) Bromoform	10.32	173	7967	0.724	ug/L	98
62) 1,3-Dichlorobenzene	11.78	146	27837	0.595	ug/L	99
63) 1,4-Dichlorobenzene	11.87	146	27416	0.582	ug/L	99
65) 1,2-Dichlorobenzene	12.24	146	26995	0.601	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.03	75	1770	0.617	ug/L	83
67) 1,3,5-Trichlorobenzene	13.25	180	14020	0.450	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	6958	0.308	ug/L	98
69) Naphthalene	14.11	128	11014	0.326	ug/L #	96
70) 1,2,3-Trichlorobenzene	14.36	180	7480	0.342	ug/L	98

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