

Data File : VU034751.D
Acq On : 23 Sep 2019 22:29
Operator : JC/SP
Sample : K4932-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDG9

Quant Time: Sep 24 03:42:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Sep 24 03:36:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	491282	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	460452	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	228795	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	201814	40.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.26%
7) Chloroethane-d5	1.67	69	170812	43.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.88%
11) 1,1-Dichloroethene-d2	2.26	63	282899	33.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.44%
21) 2-Butanone-d5	4.15	46	439532	114.03	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	114.03%
24) Chloroform-d	4.62	84	356381	48.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.48%
26) 1,2-Dichloroethane-d4	5.29	65	263140	48.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.92%
32) Benzene-d6	5.32	84	717164	50.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.50%
36) 1,2-Dichloropropane-d6	6.31	67	258181	51.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.52%
41) Toluene-d8	7.54	98	700918	51.62	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.24%
43) trans-1,3-Dichloropropene-	7.83	79	118184	49.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.94%
47) 2-Hexanone-d5	8.29	63	289872	115.70	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	115.70%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	349535	50.50	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.00%
64) 1,2-Dichlorobenzene-d4	11.84	152	250914	52.30	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.60%

Target Compounds

					Qvalue
13) Acetone	2.31	43	55445	12.365 ug/L	95
16) Methylene chloride	2.68	84	31777	7.805 ug/L	98
19) 1,1-Dichloroethane	3.42	63	7978	0.990 ug/L	98
20) cis-1,2-Dichloroethene	4.21	96	9992	2.432 ug/L	83
29) Cyclohexane	4.97	56	33413	4.396 ug/L	100
33) Benzene	5.37	78	575955	36.066 ug/L	100
34) Trichloroethene	6.17	95	73927	18.744 ug/L	99
35) Methylcyclohexane	6.39	83	31578	4.718 ug/L	97
37) 1,2-Dichloropropane	6.41	63	10402	2.188 ug/L	# 96
40) 4-Methyl-2-pentanone	7.44	43	261340	28.787 ug/L	99
42) Toluene	7.61	91	4490417	260.182 ug/L	97
46) Tetrachloroethene	8.21	164	22342	8.053 ug/L	96
52) Ethylbenzene	9.23	91	1017658	52.363 ug/L	100
53) m,p-Xylene	9.35	106	1382334	200.812 ug/L	100
54) o-xylene	9.76	106	817807	120.114 ug/L	97
55) Styrene	9.76	104	51953	4.508 ug/L	# 1
56) Isopropylbenzene	10.14	105	91004	4.957 ug/L	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092319\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Tue Sep 24 03:36:55 2019
Response via : Initial Calibration

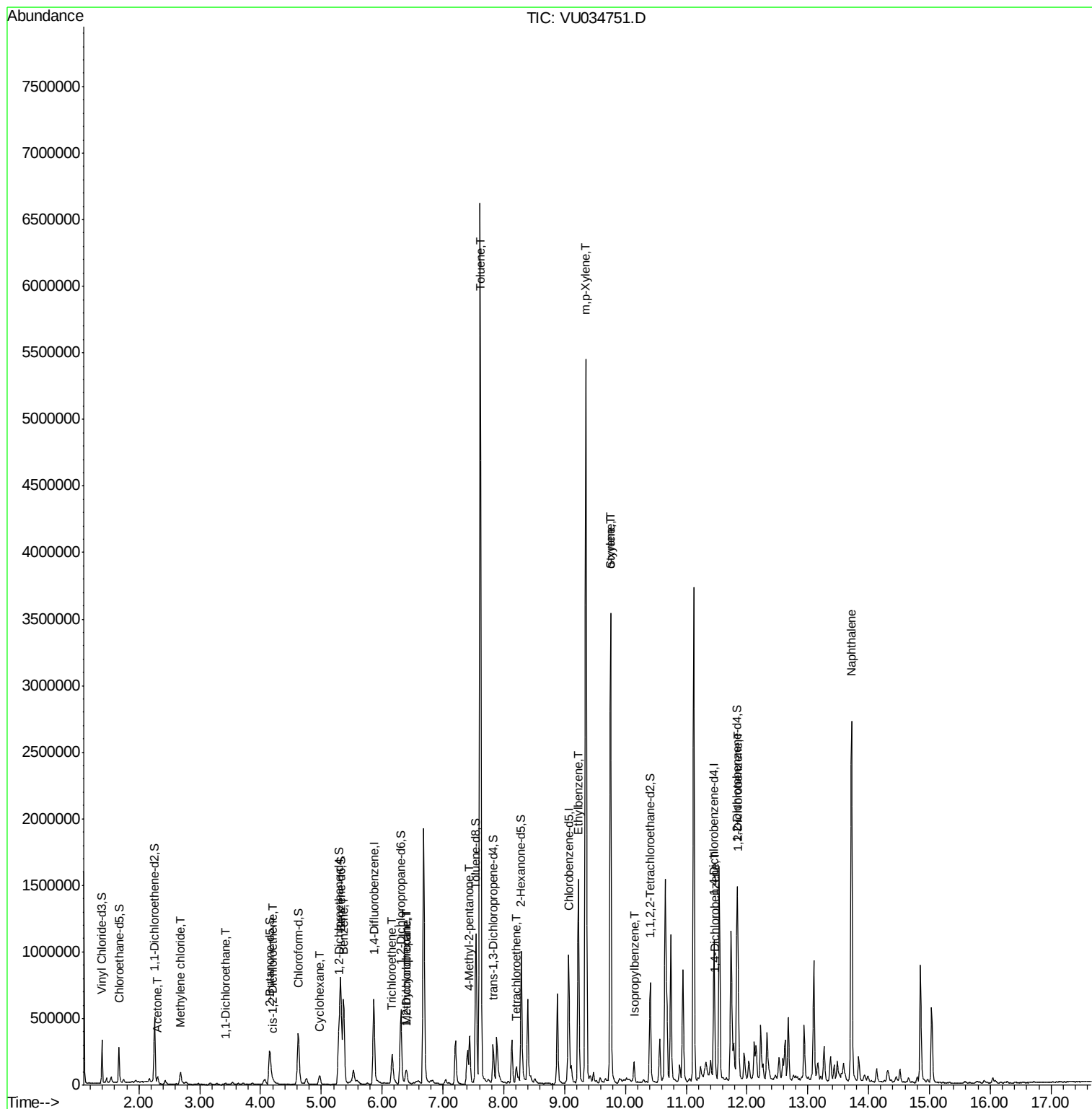
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.48	146	13471	1.669	ug/L	96
65) 1,2-Dichlorobenzene	11.85	146	105012	13.117	ug/L	96
69) Naphthalene	13.72	128	1945926	134.645	ug/L	100

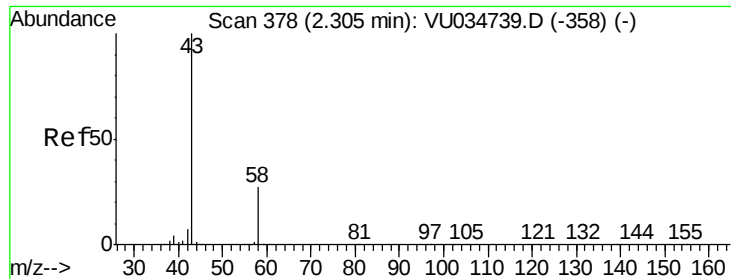
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 12.365 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

Instrument :

MSVOA_U

ClientSampled :

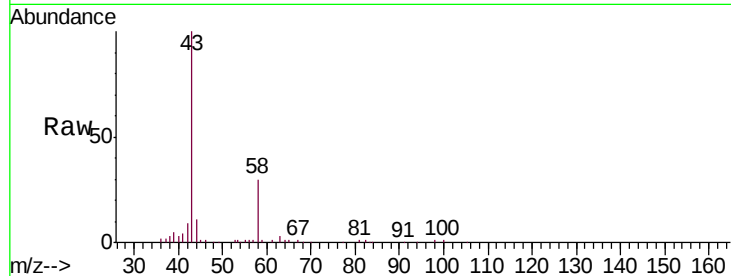
BFDG9

Tgt Ion: 43 Resp: 55445

Ion Ratio Lower Upper

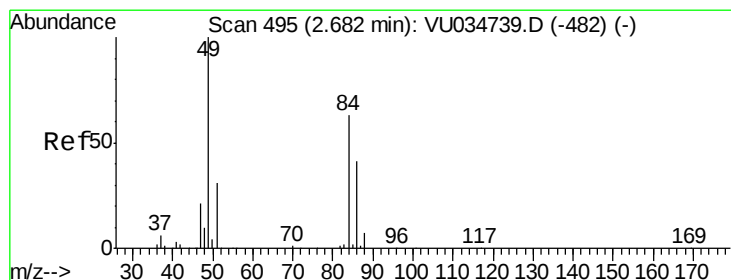
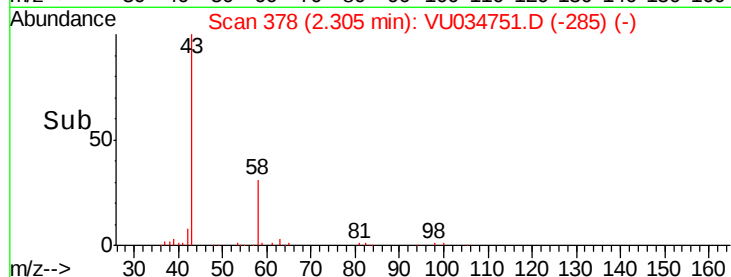
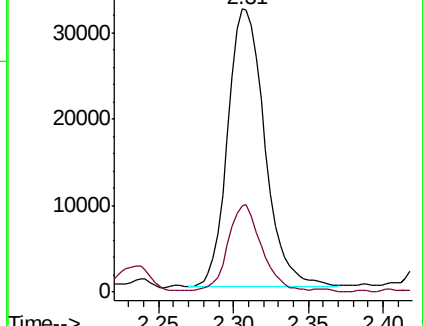
43 100

58 29.2 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU034751.D (-285) (-)

Ion 58.00 (57.70 to 58.70): VU034751.D (-285) (-)



#16

Methylene chloride

Concen: 7.805 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

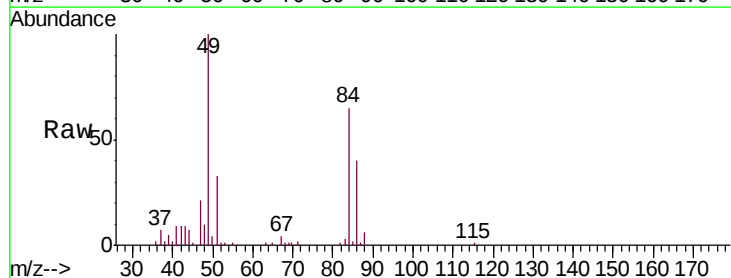
Tgt Ion: 84 Resp: 31777

Ion Ratio Lower Upper

84 100

86 62.5 43.0 80.0

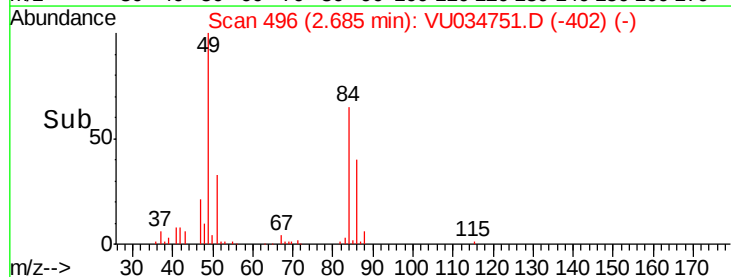
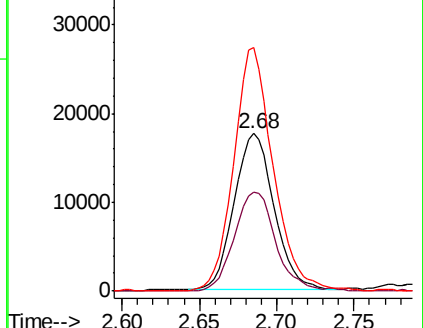
49 154.5 109.7 203.7

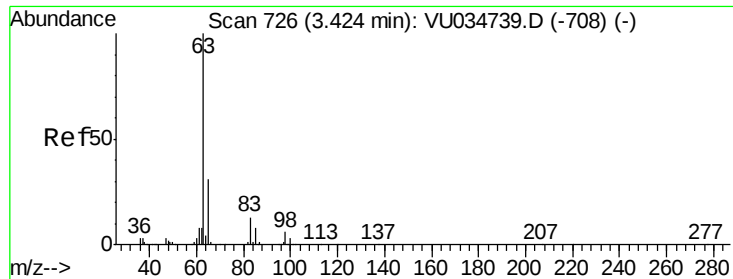


Abundance Ion 84.00 (83.70 to 84.70): VU034751.D (-402) (-)

Ion 86.00 (85.70 to 86.70): VU034751.D (-402) (-)

Ion 49.00 (48.70 to 49.70): VU034751.D (-402) (-)





#19

1,1-Dichloroethane

Concen: 0.990 ug/L

RT: 3.42 min Scan# 726

Delta R.T. -0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

Instrument :

MSVOA_U

ClientSampleId :

BFDG9

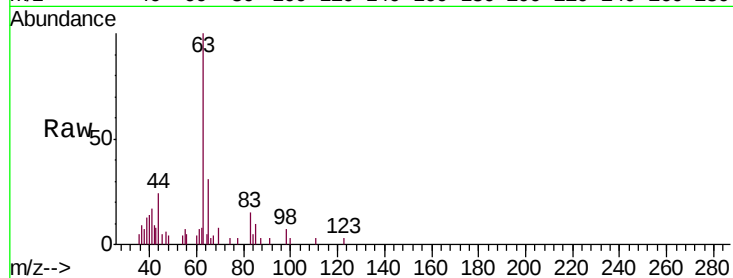
Tgt Ion: 63 Resp: 7978

Ion Ratio Lower Upper

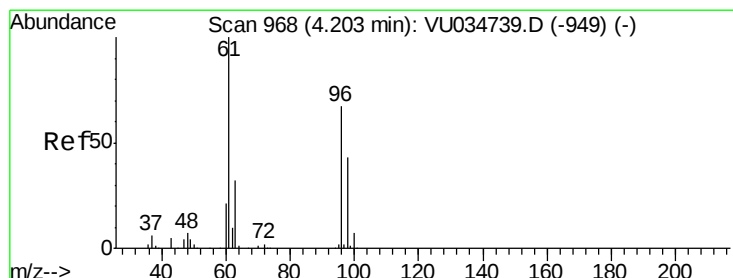
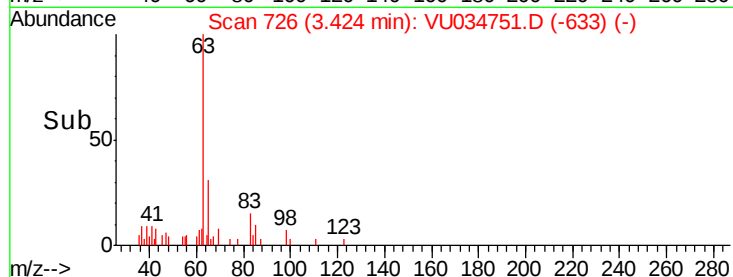
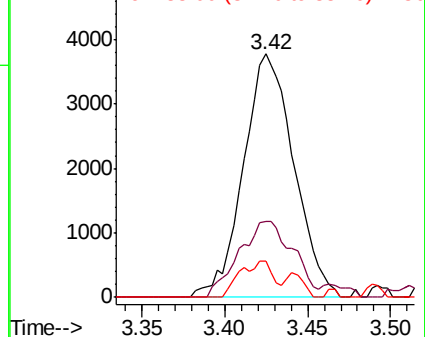
63 100

65 31.4 22.0 40.8

83 15.0 8.9 16.5



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 2.432 ug/L

RT: 4.21 min Scan# 970

Delta R.T. 0.01 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

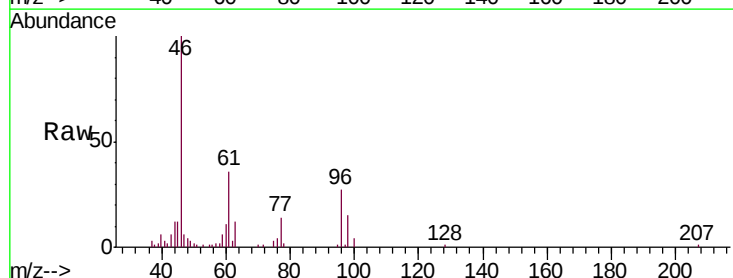
Tgt Ion: 96 Resp: 9992

Ion Ratio Lower Upper

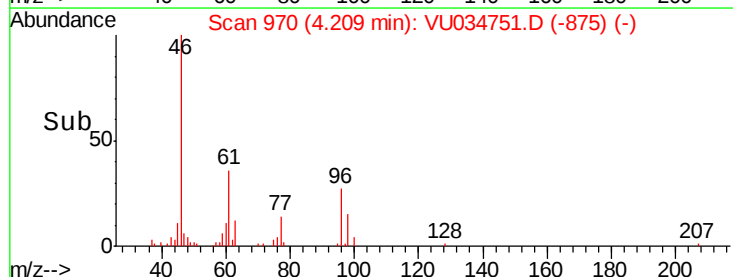
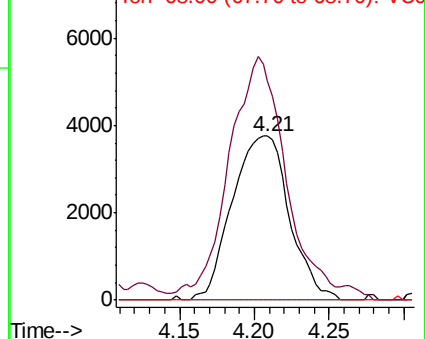
96 100

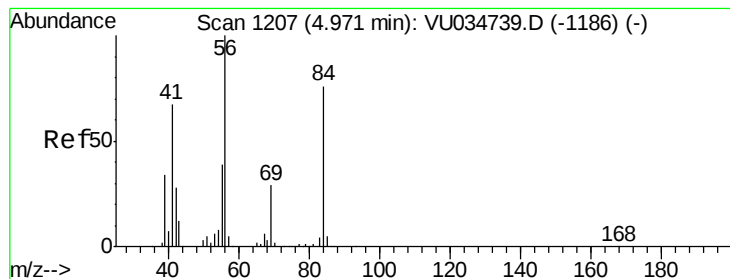
61 133.9 108.8 202.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#29

Cyclohexane

Concen: 4.396 ug/L

RT: 4.97 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

Instrument :
MSVOA_U
ClientSampleId :
BFDG9

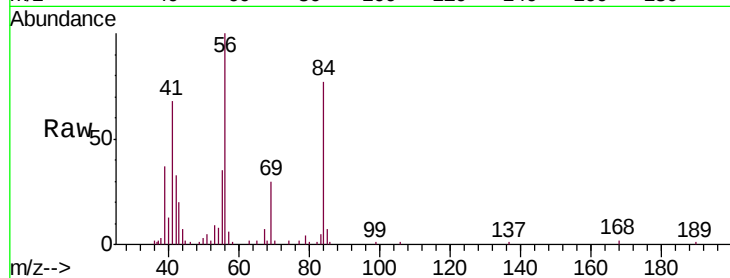
Tgt Ion: 56 Resp: 33413

Ion Ratio Lower Upper

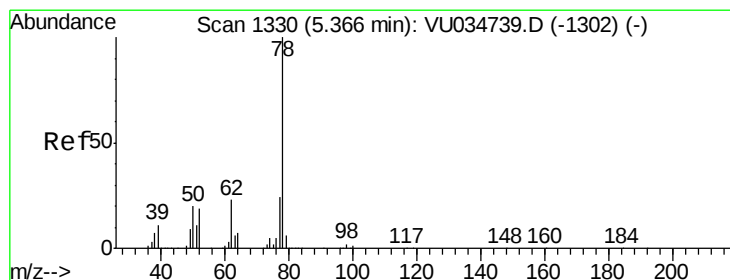
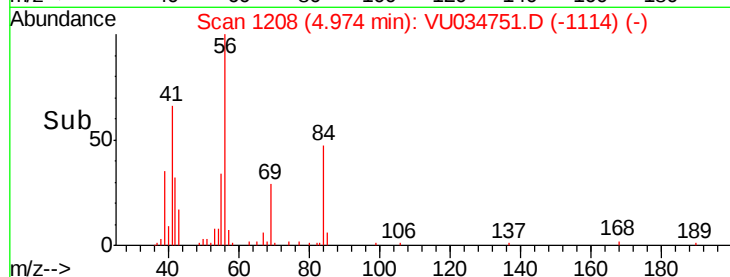
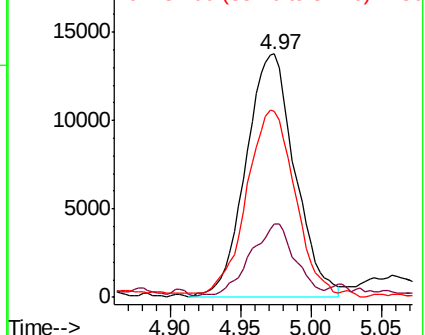
56 100

69 27.6 21.7 32.5

84 73.6 58.8 88.2



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



#33

Benzene

Concen: 36.066 ug/L

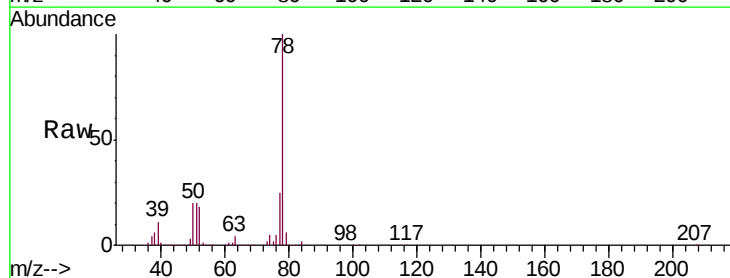
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

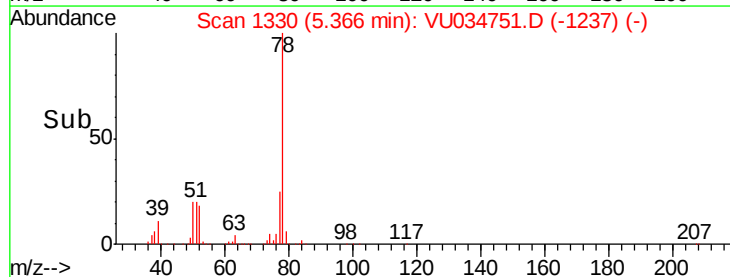
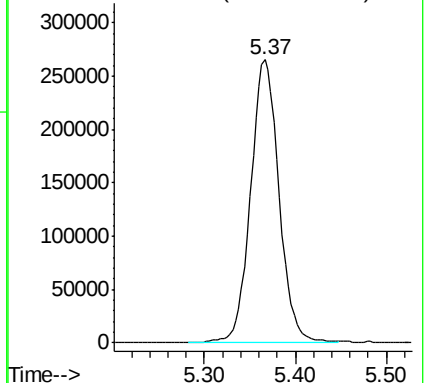
Lab File: VU034751.D

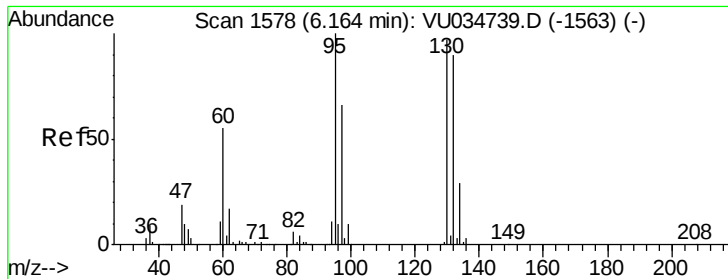
Acq: 23 Sep 2019 22:29

Tgt Ion: 78 Resp: 575955



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 18.744 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

Instrument :

MSVOA_U

ClientSampleId :

BFDG9

Tgt Ion: 95 Resp: 73927

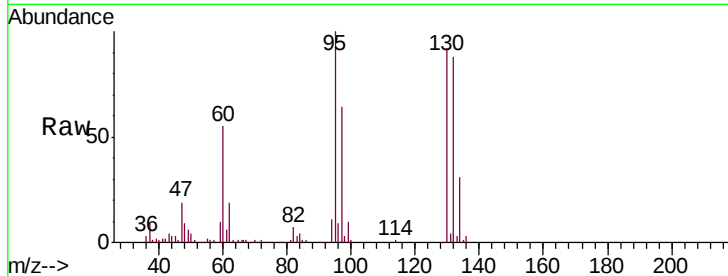
Ion Ratio Lower Upper

95 100

97 63.9 43.7 81.1

132 87.6 61.0 113.2

130 92.1 65.7 121.9

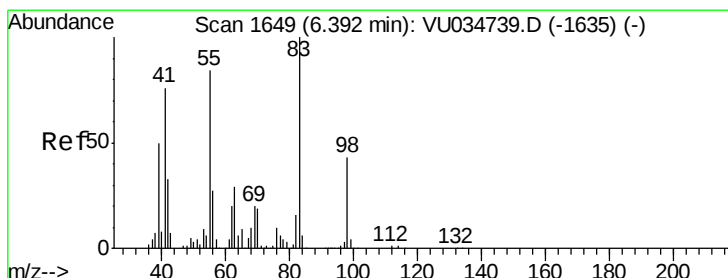
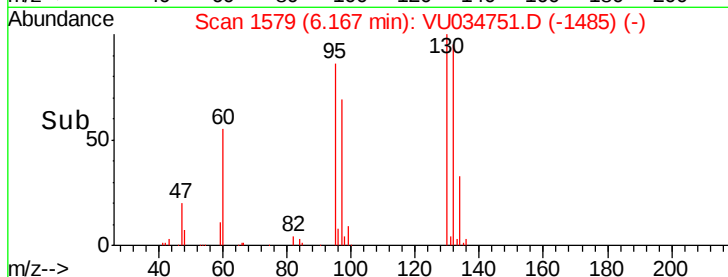
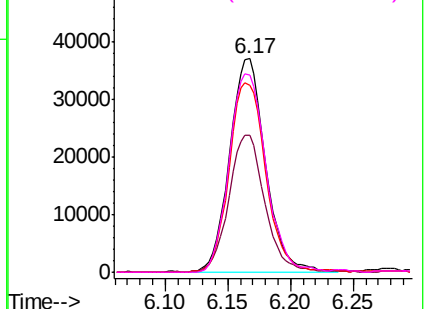


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 4.718 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

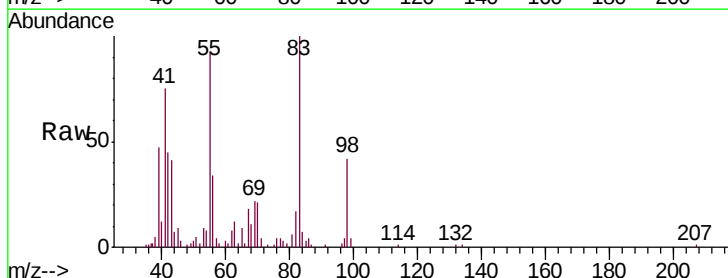
Tgt Ion: 83 Resp: 31578

Ion Ratio Lower Upper

83 100

55 92.2 71.6 107.4

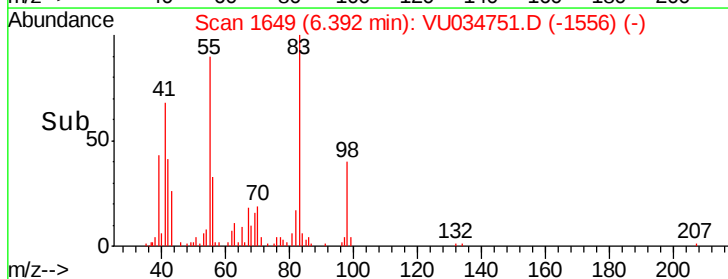
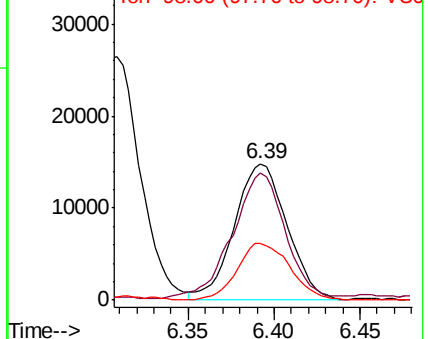
98 41.9 35.7 53.5

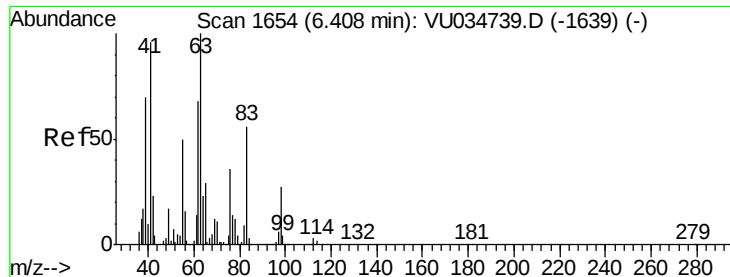


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

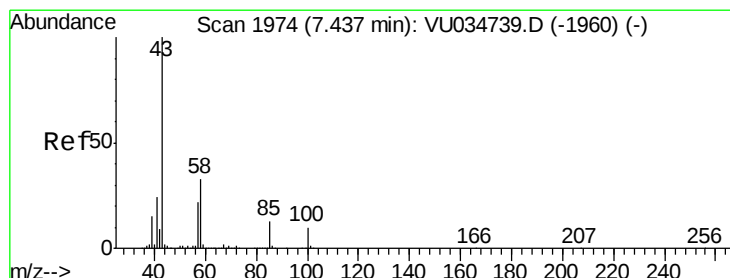
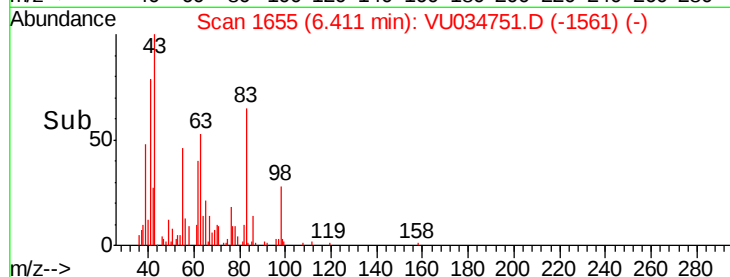
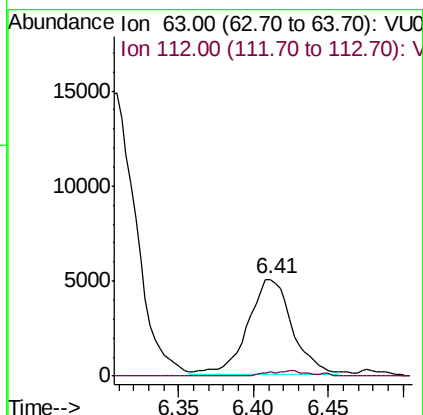
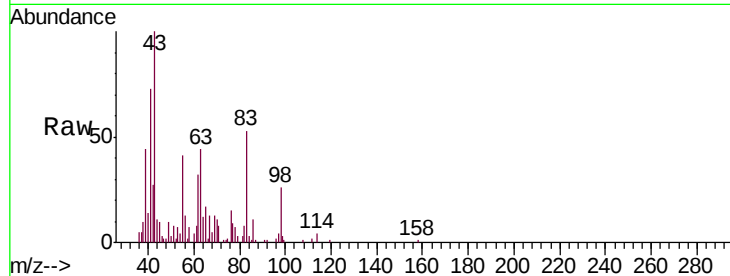




#37
 1,2-Dichloropropane
 Concen: 2.188 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU034751.D
 Acq: 23 Sep 2019 22:29

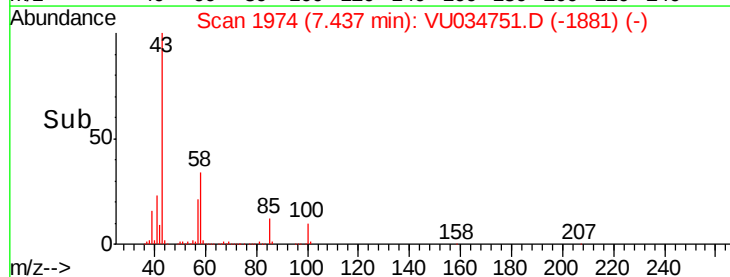
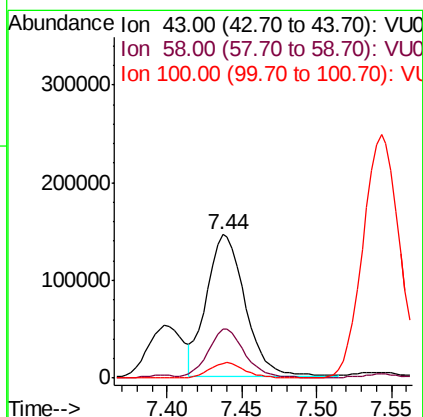
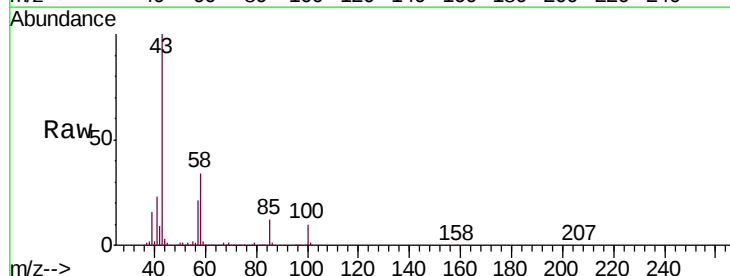
Instrument :
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 BFDG9

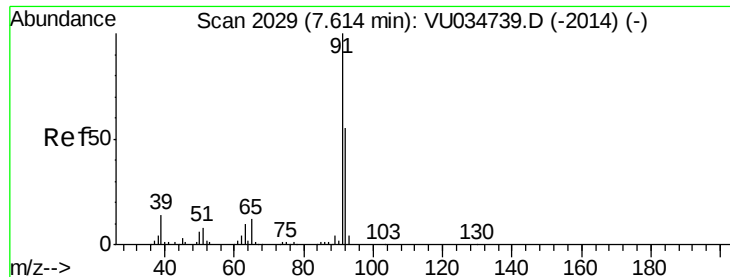
Tgt Ion: 63 Resp: 10402
 Ion Ratio Lower Upper
 63 100
 112 1.5 2.4 3.6#



#40
 4-Methyl-2-pentanone
 Concen: 28.787 ug/L
 RT: 7.44 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: VU034751.D
 Acq: 23 Sep 2019 22:29

Tgt Ion: 43 Resp: 261340
 Ion Ratio Lower Upper
 43 100
 58 32.1 25.2 37.8
 100 10.1 7.7 11.5





#42

Toluene

Concen: 260.182 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

Instrument :

MSVOA_U

ClientSampleID :

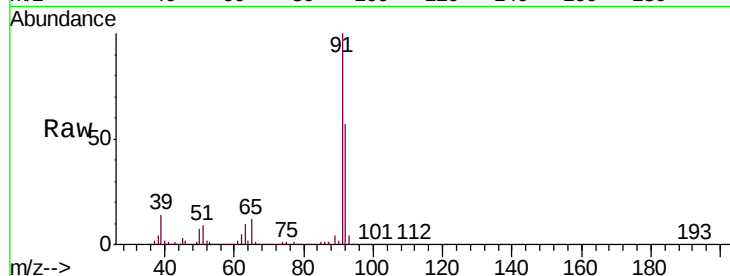
BFDG9

Tgt Ion: 91 Resp: 4490417

Ion Ratio Lower Upper

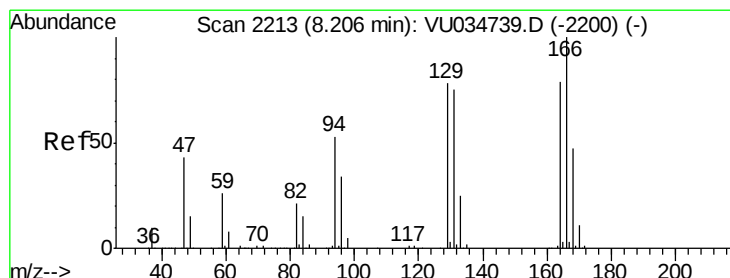
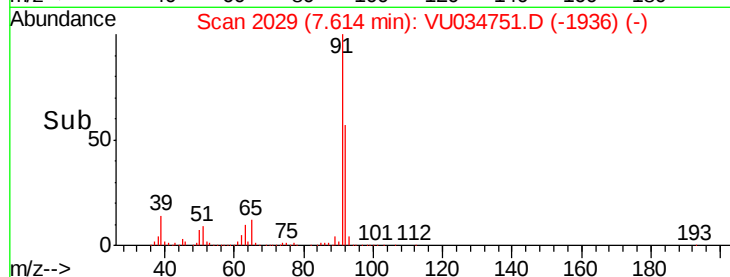
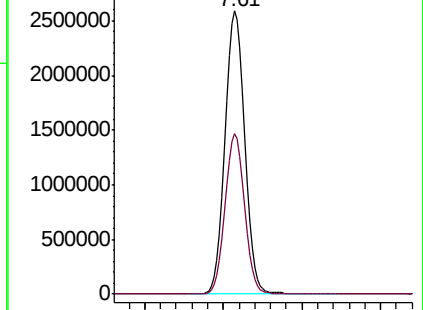
91 100

92 56.6 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VU034751.D (-2120) (-)

Ion 92.00 (91.70 to 92.70): VU034751.D (-2120) (-)



#46

Tetrachloroethene

Concen: 8.053 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. -0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

Tgt Ion: 164 Resp: 22342

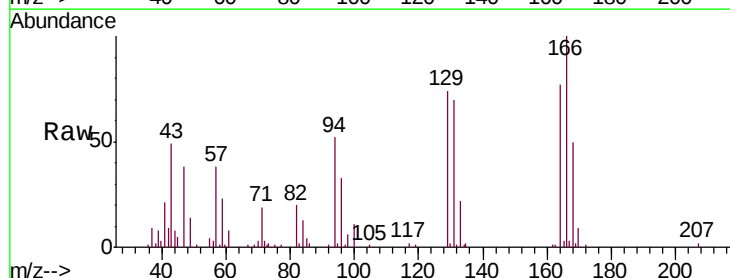
Ion Ratio Lower Upper

164 100

129 96.5 71.9 133.5

131 90.7 66.3 123.1

166 130.5 93.4 173.6

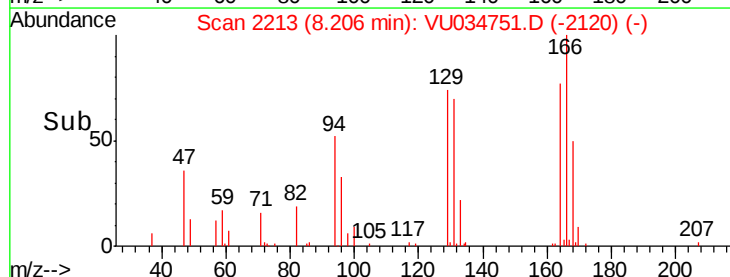
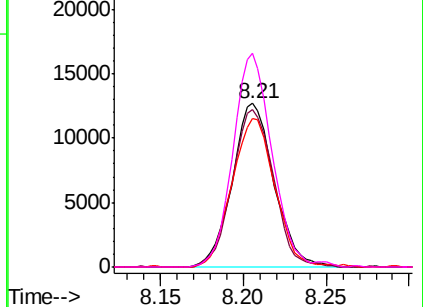


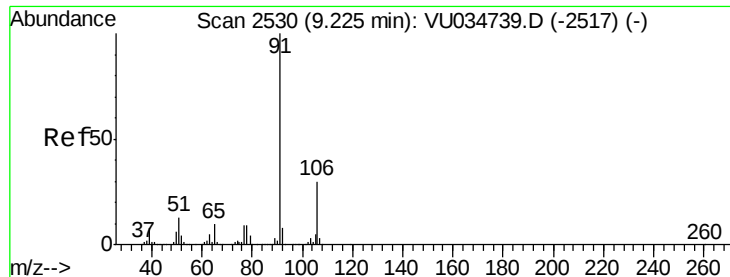
Abundance Ion 164.00 (163.70 to 164.70): VU034751.D (-2120) (-)

Ion 129.00 (128.70 to 129.70): VU034751.D (-2120) (-)

Ion 131.00 (130.70 to 131.70): VU034751.D (-2120) (-)

Ion 166.00 (165.70 to 166.70): VU034751.D (-2120) (-)





#52

Ethylbenzene

Concen: 52.363 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

Instrument :

MSVOA_U

ClientSampleId :

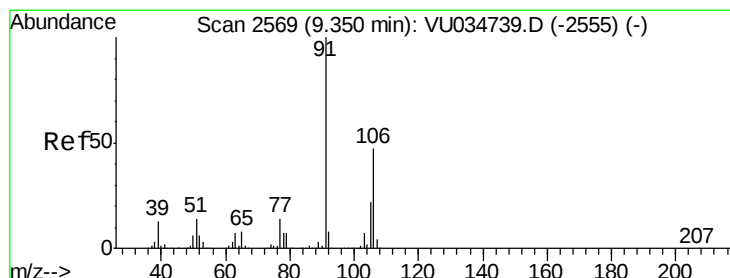
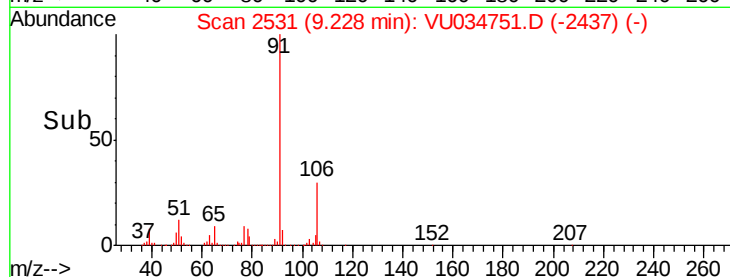
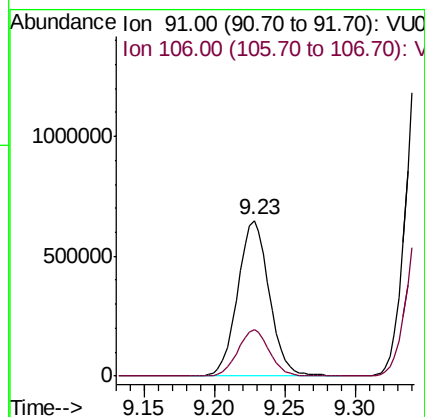
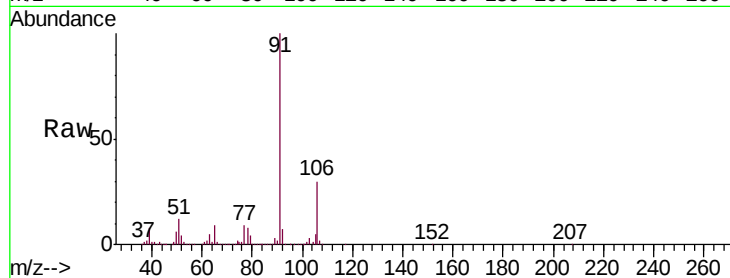
BFDG9

Tgt Ion: 91 Resp: 1017658

Ion Ratio Lower Upper

91 100

106 29.7 20.6 38.4



#53

m,p-Xylene

Concen: 200.812 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034751.D

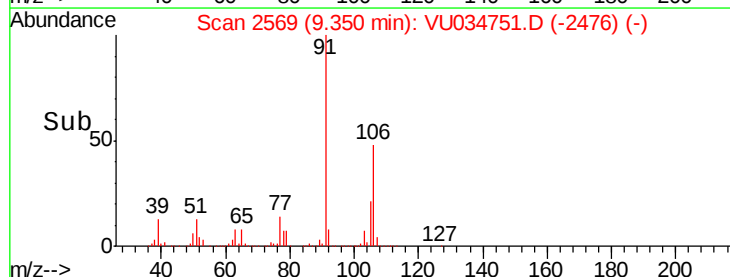
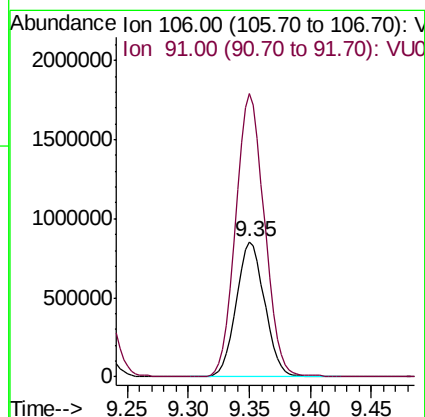
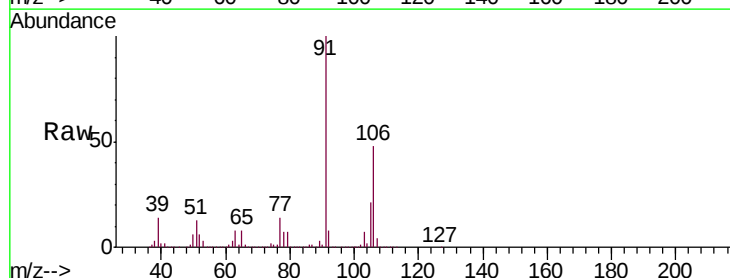
Acq: 23 Sep 2019 22:29

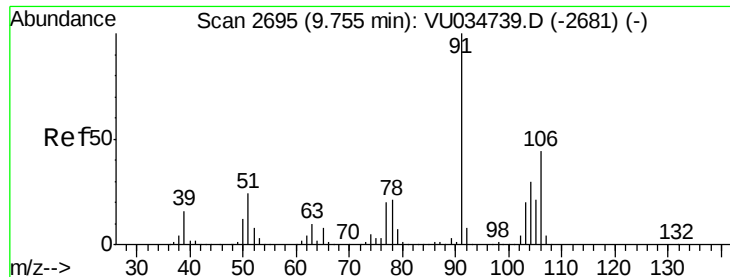
Tgt Ion: 106 Resp: 1382334

Ion Ratio Lower Upper

106 100

91 209.8 146.9 272.7





#54

o-xylene

Concen: 120.114 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

Instrument :

MSVOA_U

ClientSampleId :

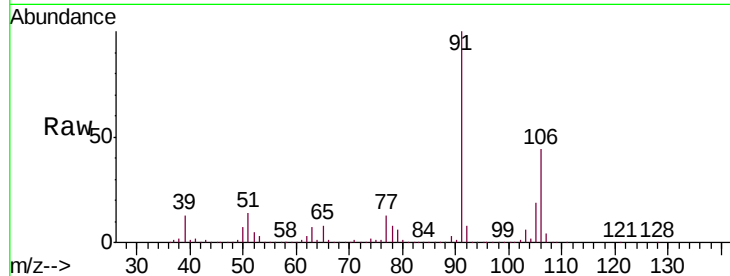
BFDG9

Tgt Ion:106 Resp: 817807

Ion Ratio Lower Upper

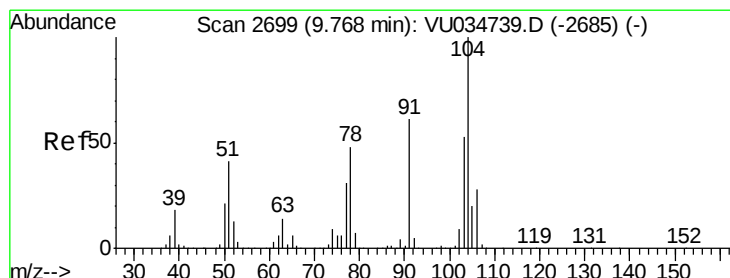
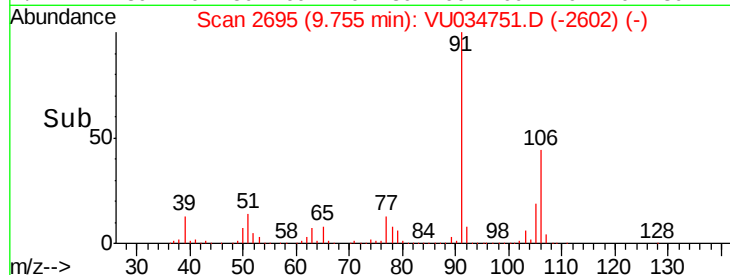
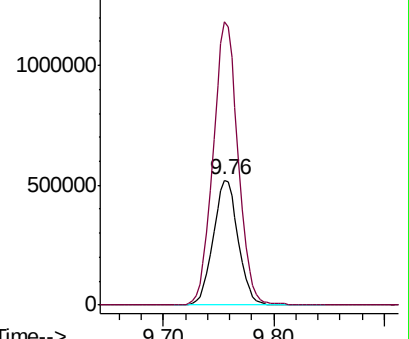
106 100

91 226.8 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 4.508 ug/L

RT: 9.76 min Scan# 2696

Delta R.T. -0.01 min

Lab File: VU034751.D

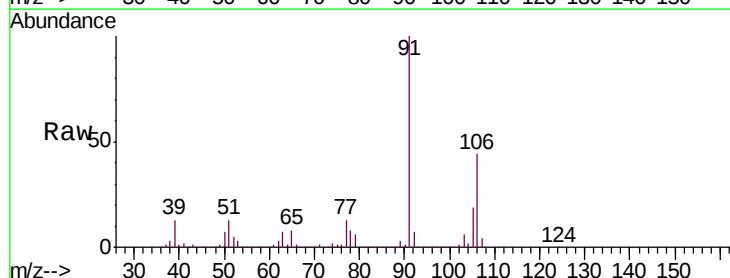
Acq: 23 Sep 2019 22:29

Tgt Ion:104 Resp: 51953

Ion Ratio Lower Upper

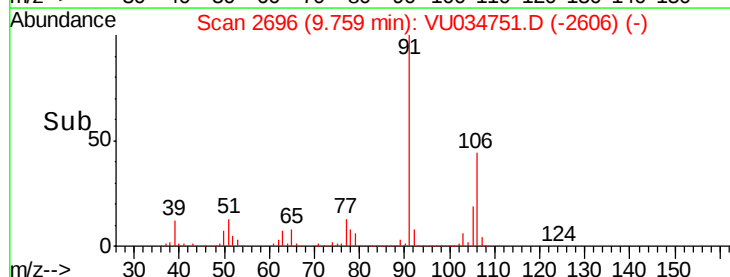
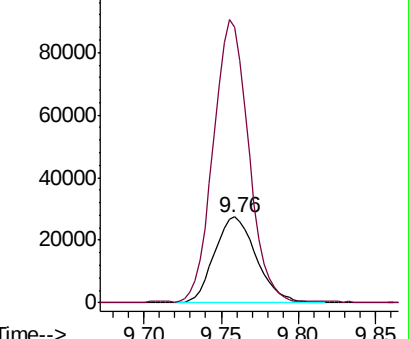
104 100

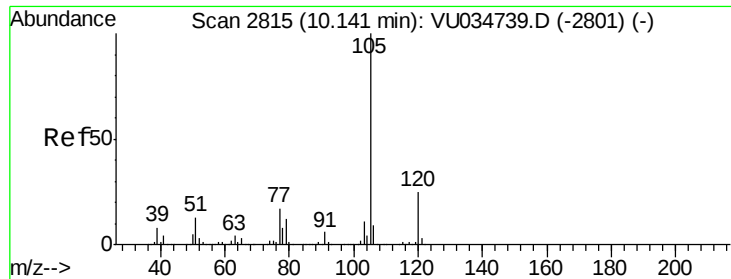
78 320.9 35.1 65.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 4.957 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

Instrument :

MSVOA_U

ClientSampleId :

BFDG9

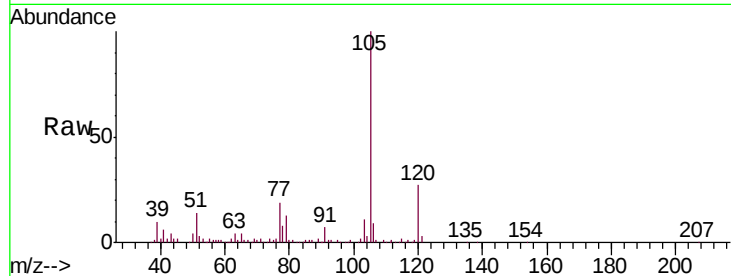
Tgt Ion:105 Resp: 91004

Ion Ratio Lower Upper

105 100

120 25.5 20.4 30.6

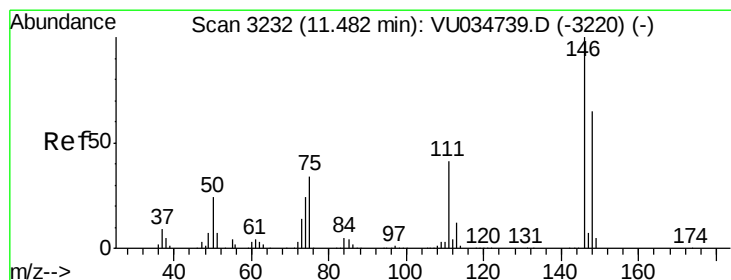
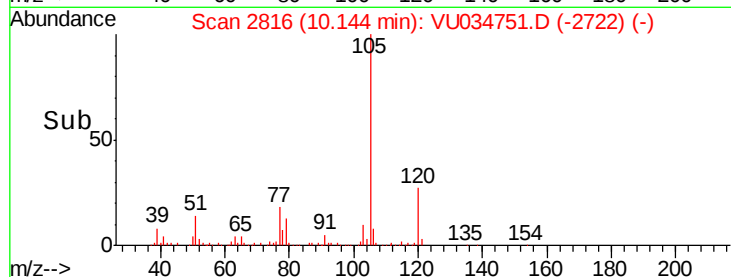
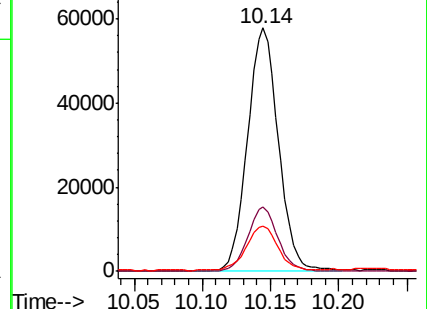
77 18.5 14.2 21.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#63

1,4-Dichlorobenzene

Concen: 1.669 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. -0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

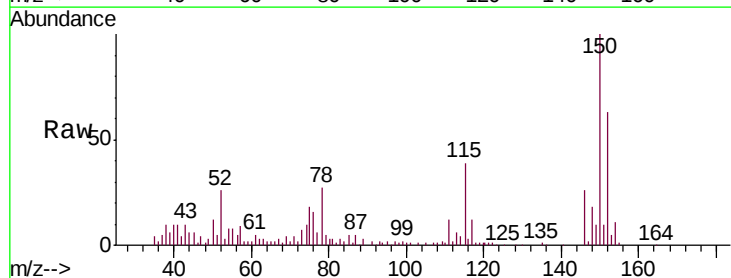
Tgt Ion:146 Resp: 13471

Ion Ratio Lower Upper

146 100

111 44.6 29.5 54.9

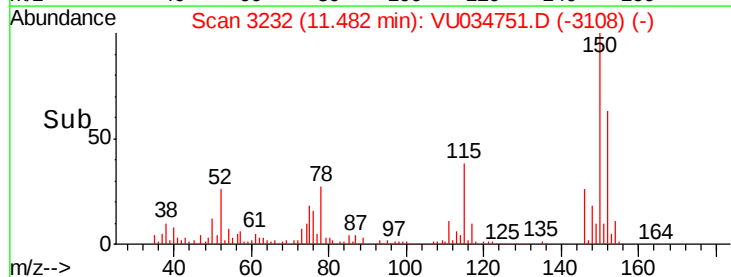
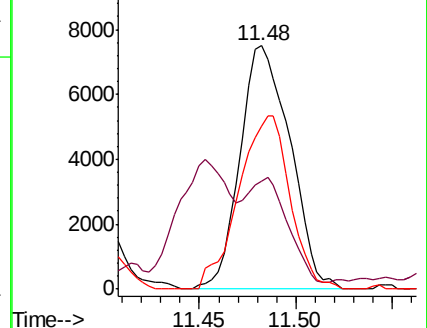
148 67.0 44.4 82.4

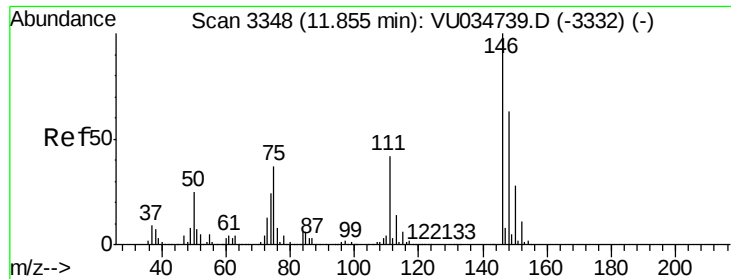


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

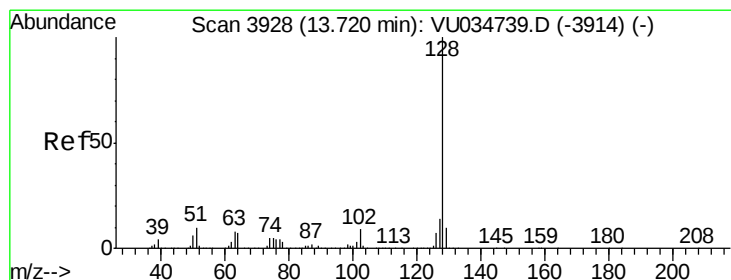
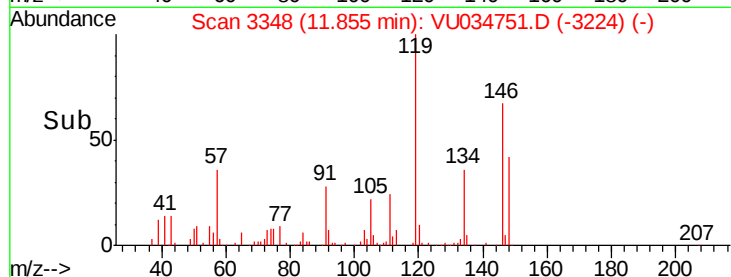
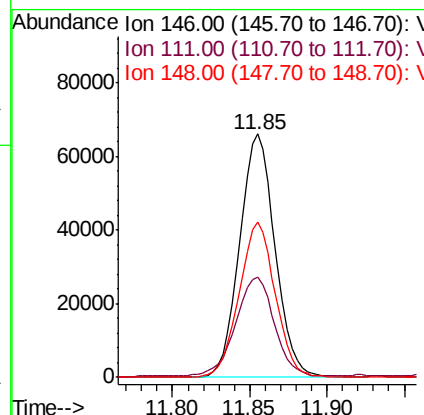
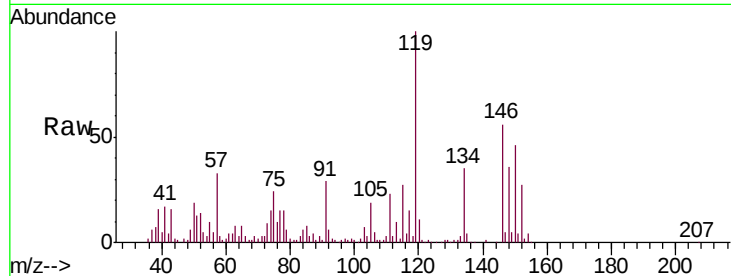




#65
 1,2-Dichlorobenzene
 Concen: 13.117 ug/L
 RT: 11.85 min Scan# 3348
 Delta R.T. -0.00 min
 Lab File: VU034751.D
 Acq: 23 Sep 2019 22:29

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDG9

Tgt Ion:146 Resp: 105012
 Ion Ratio Lower Upper
 146 100
 111 41.0 35.2 52.8
 148 63.8 53.0 79.6



#69
 Naphthalene
 Concen: 134.645 ug/L
 RT: 13.72 min Scan# 3928
 Delta R.T. -0.00 min
 Lab File: VU034751.D
 Acq: 23 Sep 2019 22:29

Tgt Ion:128 Resp: 1945926
 Ion Ratio Lower Upper
 128 100
 127 13.4 10.8 16.2
 129 10.8 8.6 12.8

