

Data File : VU034492.D
Acq On : 11 Sep 2019 22:11
Operator : JC/SP
Sample : K4624-21
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T-11-A1-(0)

Quant Time: Sep 12 04:45:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	247994	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	380176	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	399264	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	219227	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	219676	58.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.10%	
35) Dibromofluoromethane	4.86	113	194214	54.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.80%	
50) Toluene-d8	7.55	98	725956	54.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.24%	
62) 4-Bromofluorobenzene	10.29	95	244579	47.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.32%	

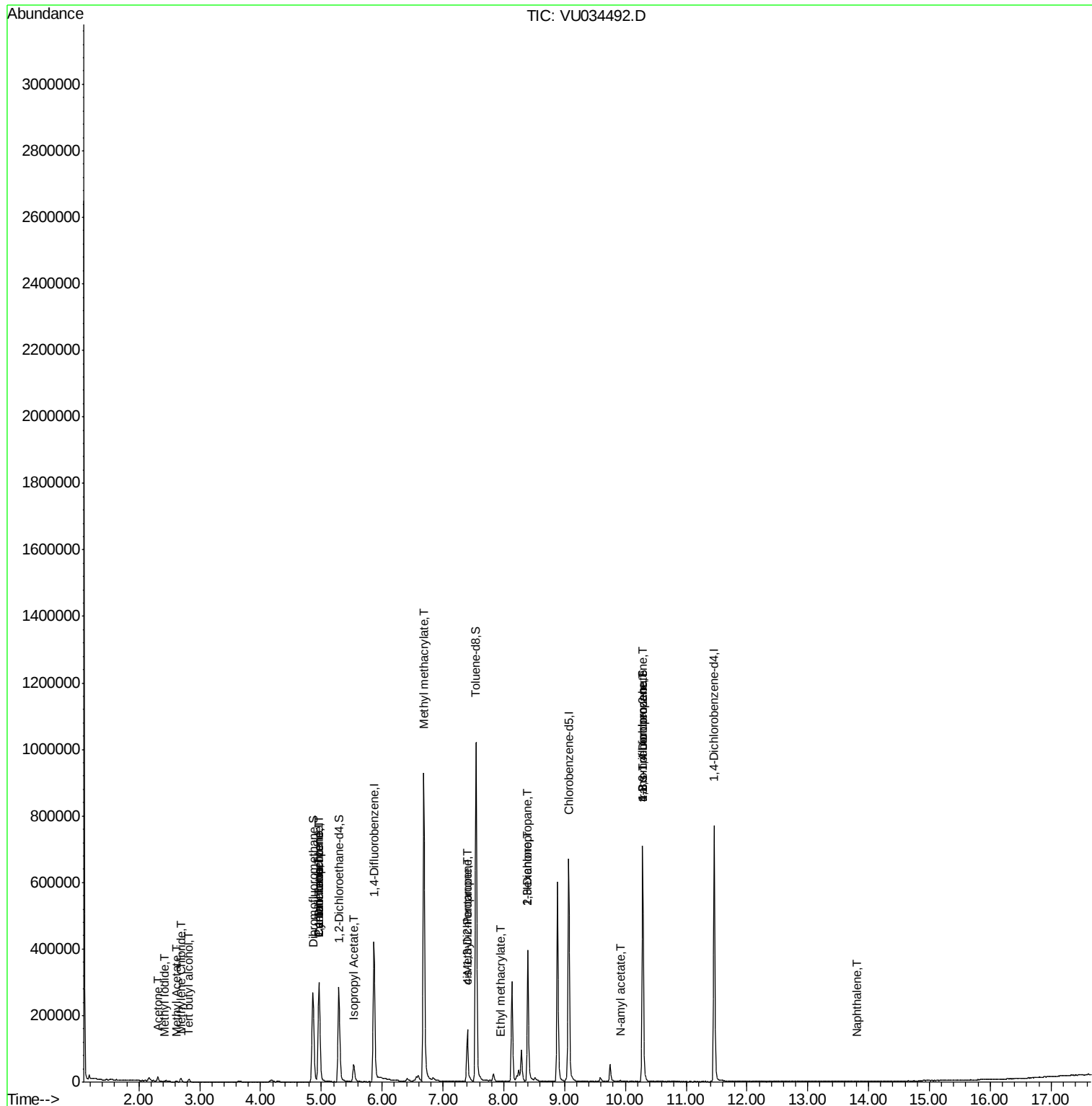
Target Compounds			Qvalue			
5) Bromomethane	1.63	94	410	Below Cal	#	69
6) Chloroethane	1.67	64	141	Below Cal	#	43
10) Methyl Iodide	2.41	142	131	3.892	ug/l #	61
11) Tert butyl alcohol	2.83	59	3977	5.017	ug/l #	73
16) Acetone	2.31	43	15918	8.198	ug/l	93
18) Methyl Acetate	2.61	43	3630	0.768	ug/l #	73
20) Methylene Chloride	2.69	84	4736	1.098	ug/l	95
31) Cyclohexane	4.96	56	3930	0.894	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	16909	4.101	ug/l #	49
38) Carbon Tetrachloride	4.96	117	21827	4.958	ug/l #	17
43) Isopropyl Acetate	5.53	43	61643	8.106	ug/l	99
48) Methyl methacrylate	6.68	41	83476	23.112	ug/l #	37
51) 4-Methyl-2-Pentanone	7.40	43	54841	10.418	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	29509	5.161	ug/l #	64
56) Ethyl methacrylate	7.96	69	110	3.094	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	3995	0.647	ug/l #	43
59) 2-Hexanone	8.40	43	53457	13.594	ug/l #	55
74) N-amyl acetate	9.92	43	2667	0.464	ug/l #	44
76) 1,2,3-Trichloropropane	10.29	75	116122	24.266	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	116122	81.606	ug/l #	100
95) Naphthalene	13.80	128	119	3.973	ug/l #	69

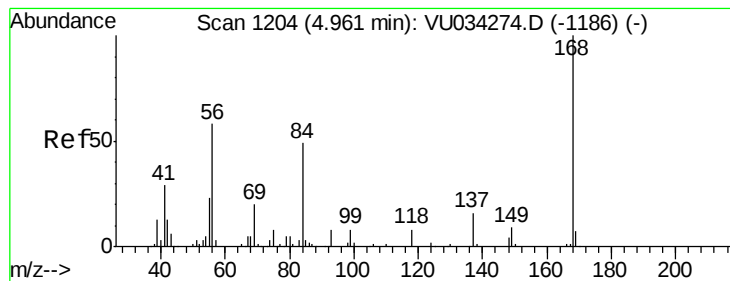
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

Instrument :

MSVOA_U

ClientSampleId :

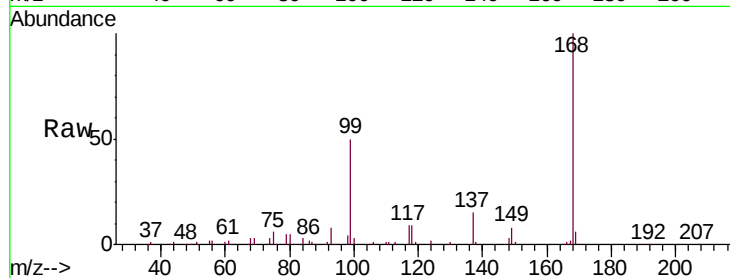
T-11-A1-(0)

Tgt Ion:168 Resp: 247994

Ion Ratio Lower Upper

168 100

99 50.0 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034492.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034492.D (-1186) (-)

4.96

120000

100000

80000

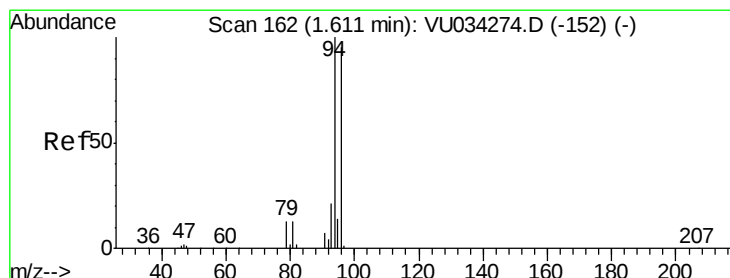
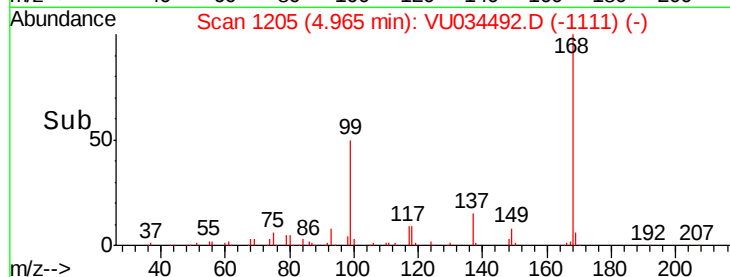
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.02 min

Lab File: VU034492.D

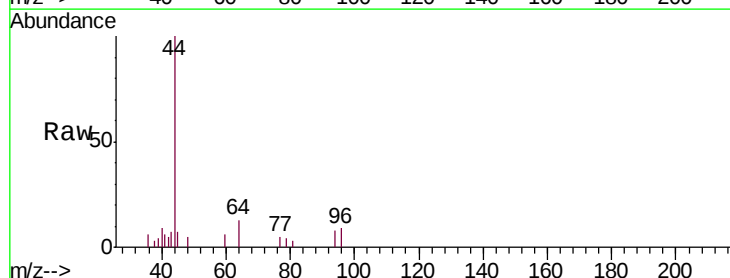
Acq: 11 Sep 2019 22:11

Tgt Ion: 94 Resp: 410

Ion Ratio Lower Upper

94 100

96 124.6 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034492.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034492.D (-152) (-)

1.63

400

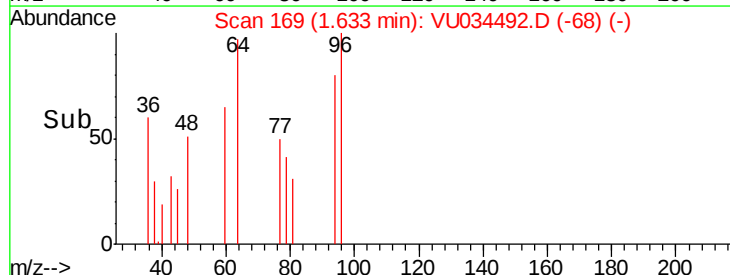
300

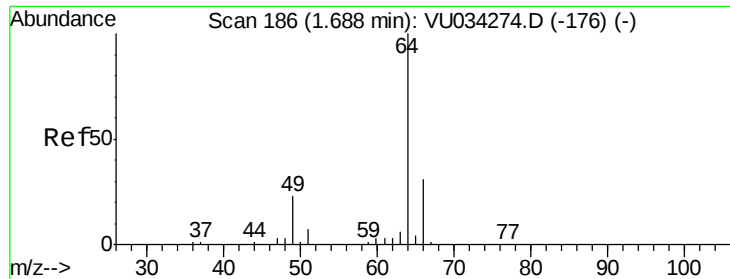
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 181

Delta R.T. -0.02 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

Instrument :

MSVOA_U

ClientSampleId :

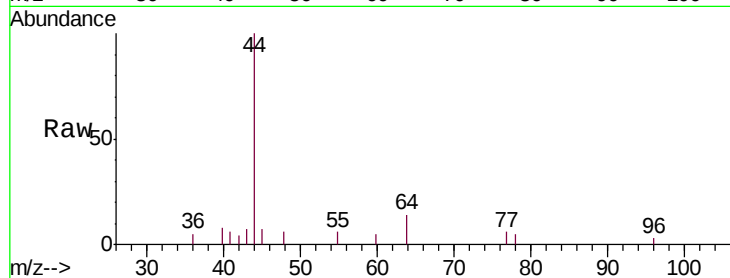
T-11-A1-(0)

Tgt Ion: 64 Resp: 141

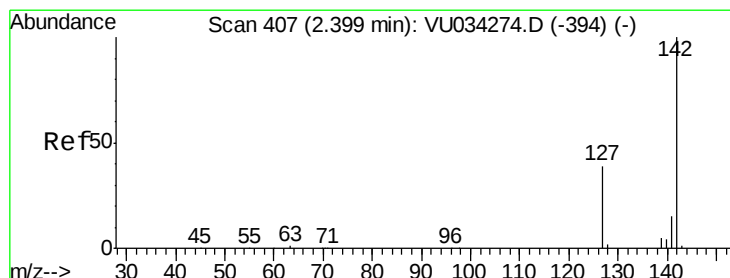
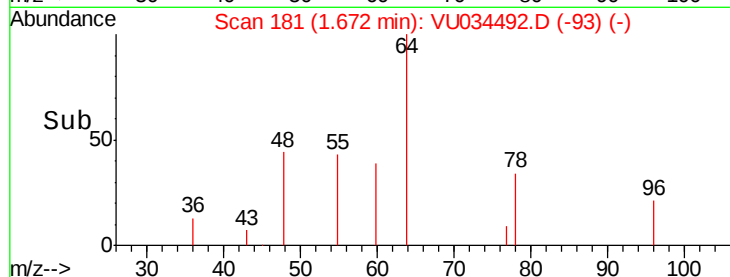
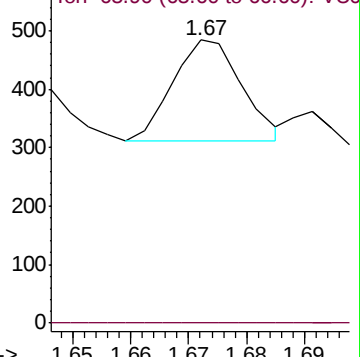
Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU034492.D (-93) (-)



#10

Methyl Iodide

Concen: 3.892 ug/l

RT: 2.41 min Scan# 411

Delta R.T. 0.01 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

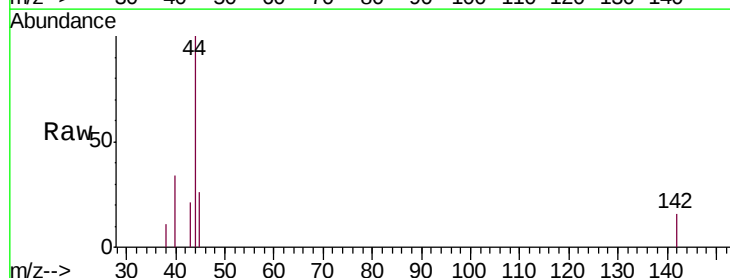
Tgt Ion: 142 Resp: 131

Ion Ratio Lower Upper

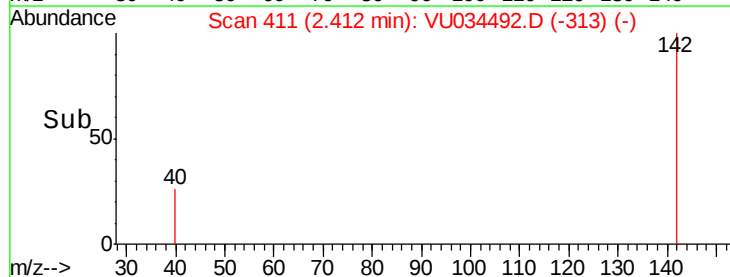
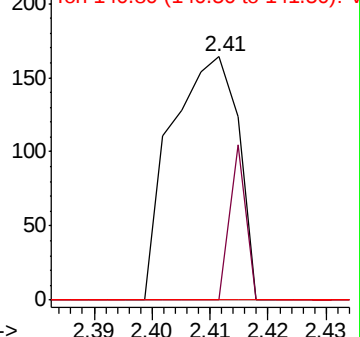
142 100

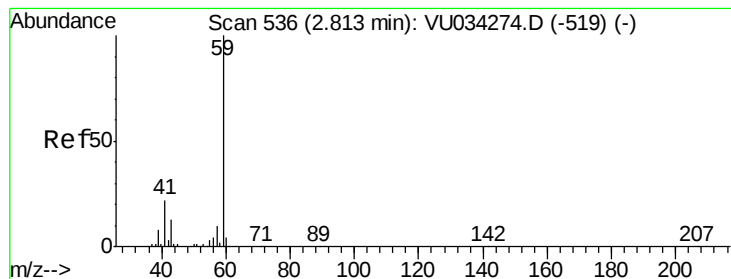
127 15.3 32.1 48.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VU034492.D (-313) (-)





#11

Tert butyl alcohol

Concen: 5.017 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

Instrument :

MSVOA_U

ClientSampleId :

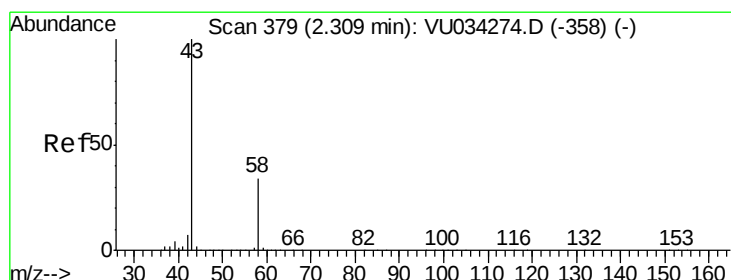
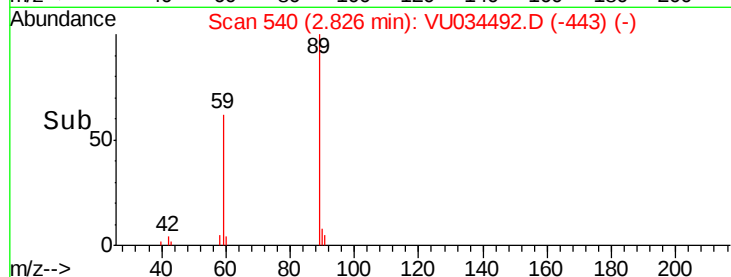
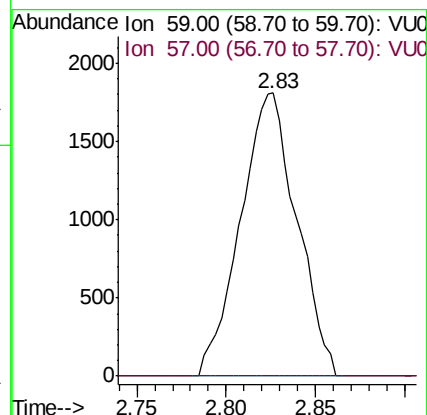
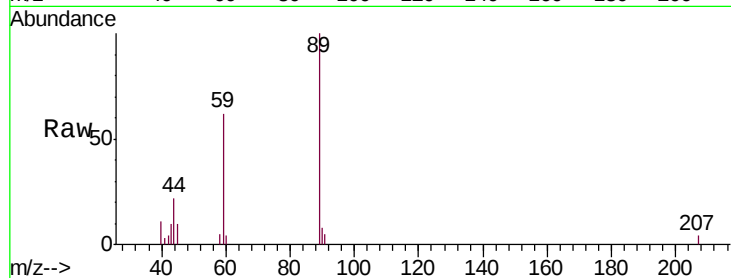
T-11-A1-(0)

Tgt Ion: 59 Resp: 3977

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



#16

Acetone

Concen: 8.198 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034492.D

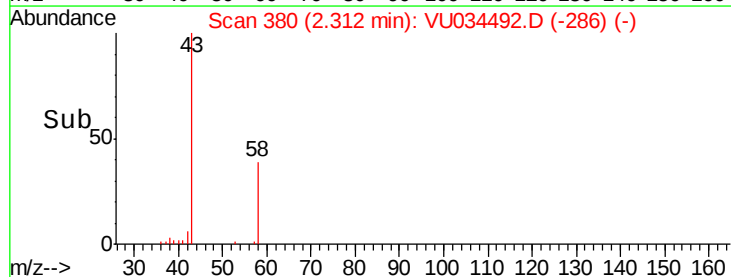
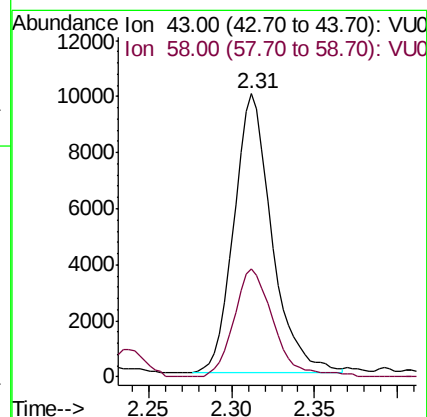
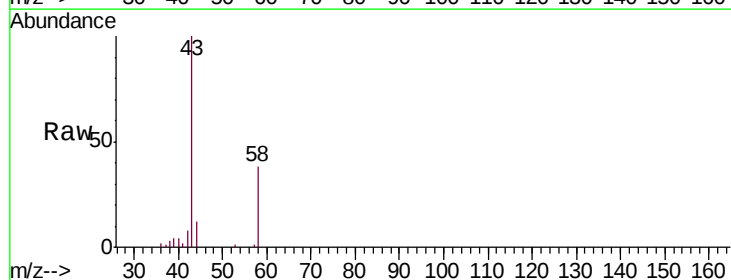
Acq: 11 Sep 2019 22:11

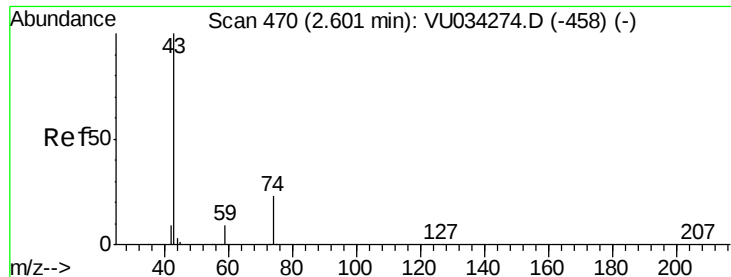
Tgt Ion: 43 Resp: 15918

Ion Ratio Lower Upper

43 100

58 38.7 27.6 41.4

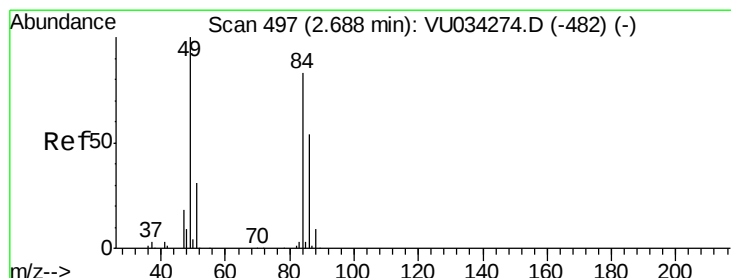
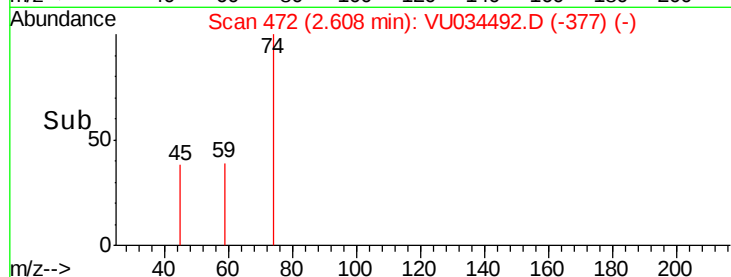
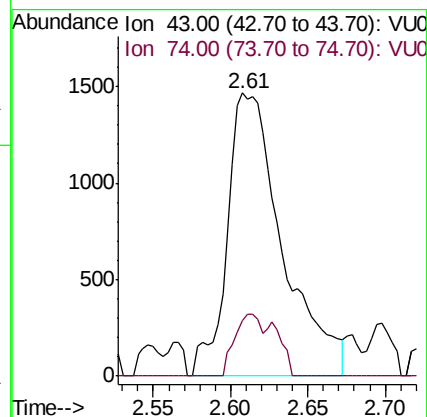
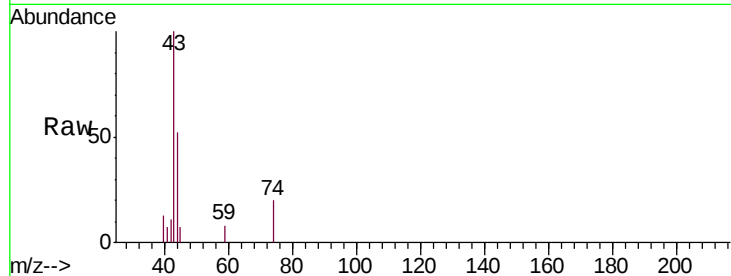




#18
Methyl Acetate
Concen: 0.768 ug/l
RT: 2.61 min Scan# 472
Delta R.T. 0.01 min
Lab File: VU034492.D
Acq: 11 Sep 2019 22:11

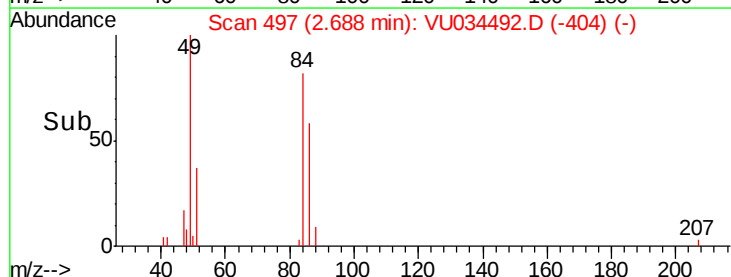
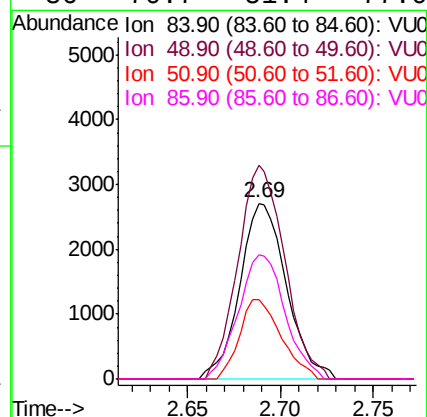
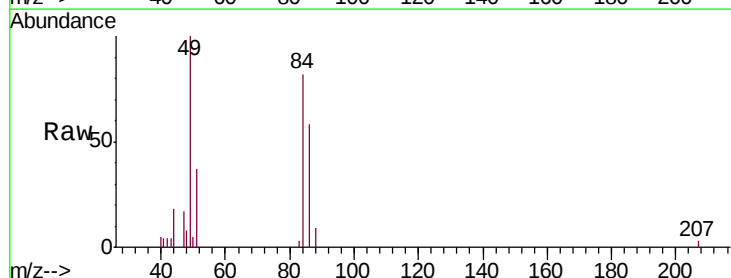
Instrument :
MSVOA_U
ClientSampleId :
T-11-A1-(0)

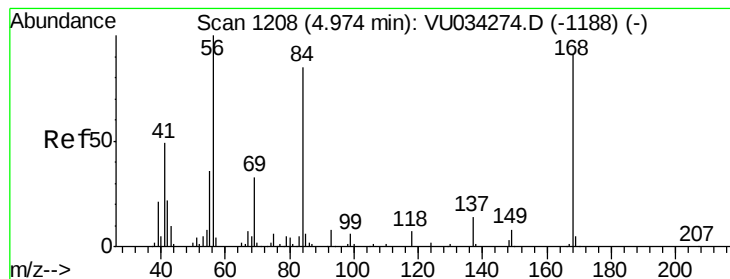
Tgt Ion: 43 Resp: 3630
Ion Ratio Lower Upper
43 100
74 10.4 18.9 28.3#



#20
Methylene Chloride
Concen: 1.098 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034492.D
Acq: 11 Sep 2019 22:11

Tgt Ion: 84 Resp: 4736
Ion Ratio Lower Upper
84 100
49 121.5 96.0 144.0
51 44.9 30.0 45.0
86 70.7 51.4 77.0





#31

Cyclohexane

Concen: 0.894 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

Instrument :

MSVOA_U

ClientSampleId :

T-11-A1-(0)

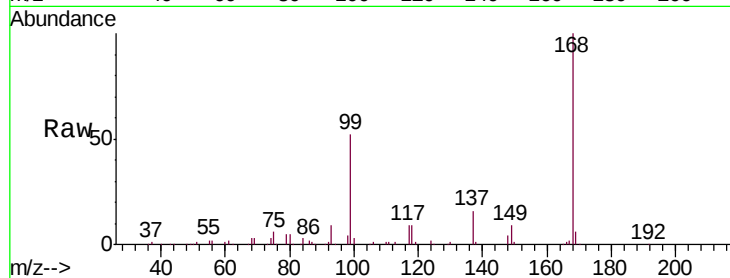
Tgt Ion: 56 Resp: 3930

Ion Ratio Lower Upper

56 100

69 202.9 26.7 40.1#

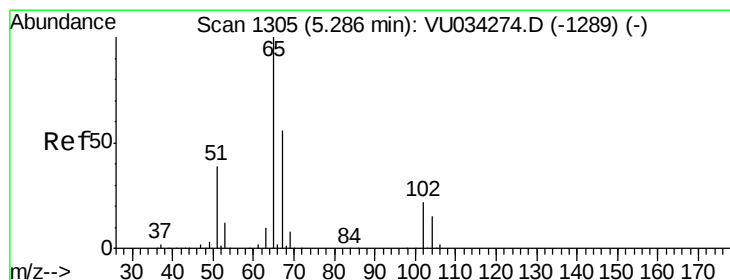
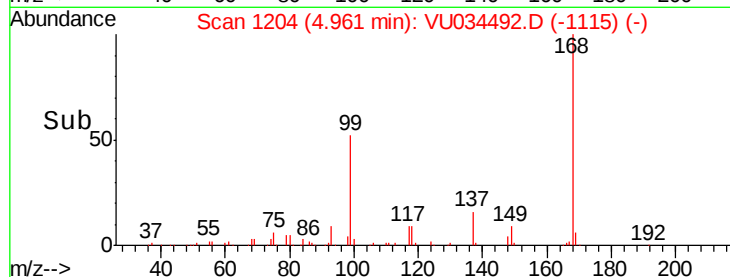
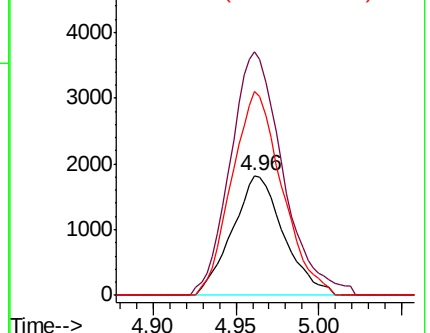
84 169.6 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU034492.D (-1115) (-)

Ion 69.00 (68.70 to 69.70): VU034492.D (-1115) (-)

Ion 84.00 (83.70 to 84.70): VU034492.D (-1115) (-)



#33

1,2-Dichloroethane-d4

Concen: 58.545 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034492.D

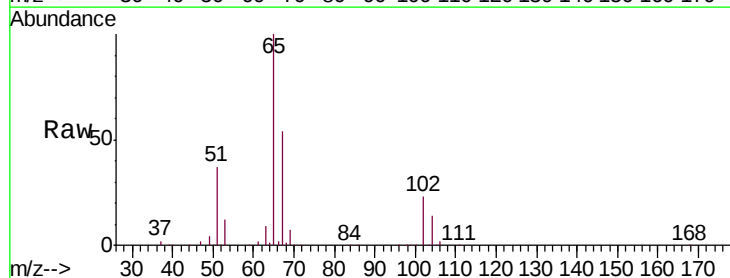
Acq: 11 Sep 2019 22:11

Tgt Ion: 65 Resp: 219676

Ion Ratio Lower Upper

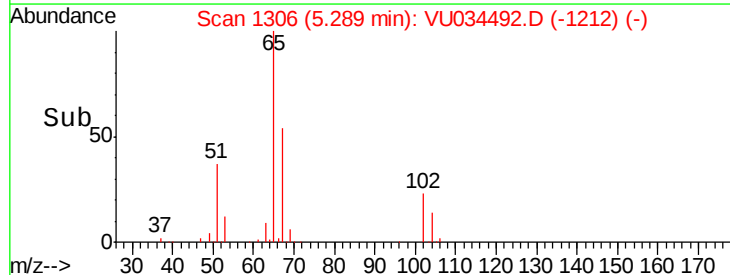
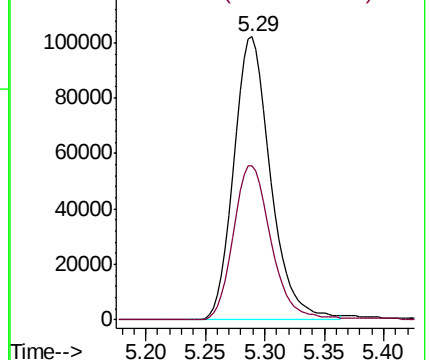
65 100

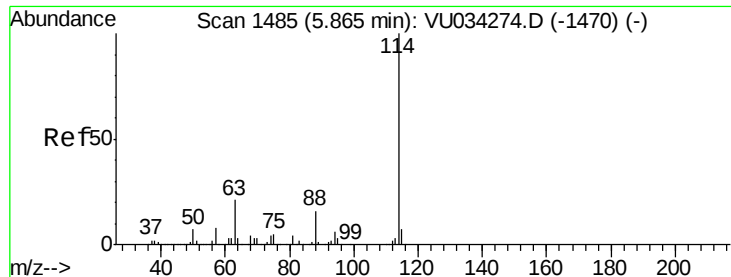
67 55.9 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU034492.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034492.D (-1212) (-)

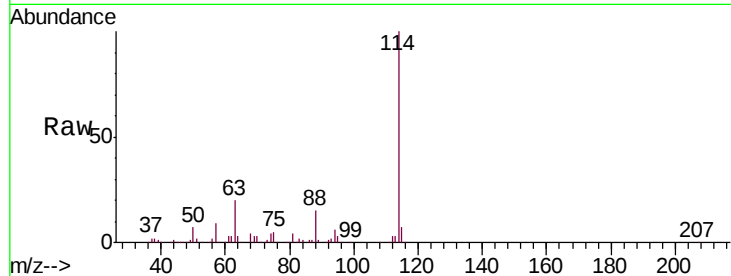




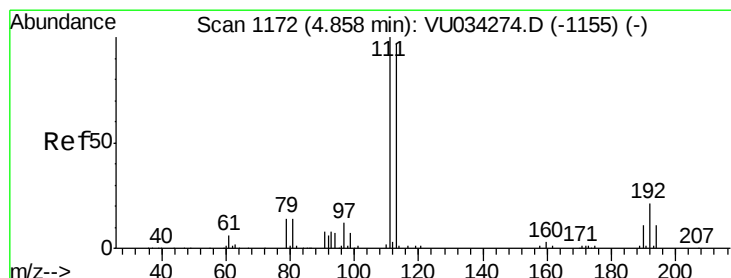
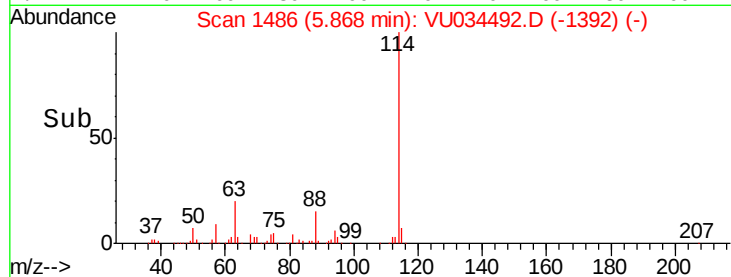
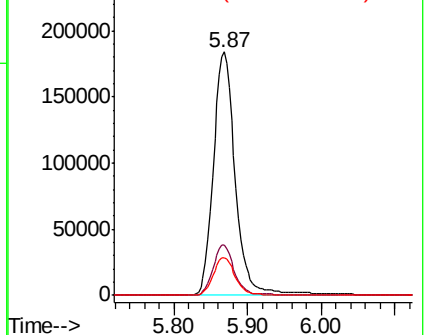
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034492.D
 Acq: 11 Sep 2019 22:11

Instrument :
 MSVOA_U
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 T-11-A1-(0)

Tgt Ion:114 Resp: 380176
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 42.4
 88 15.5 0.0 32.4

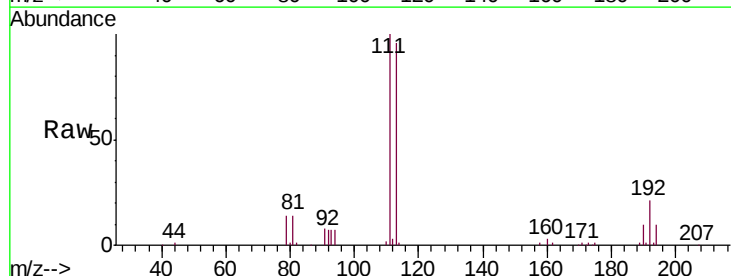


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

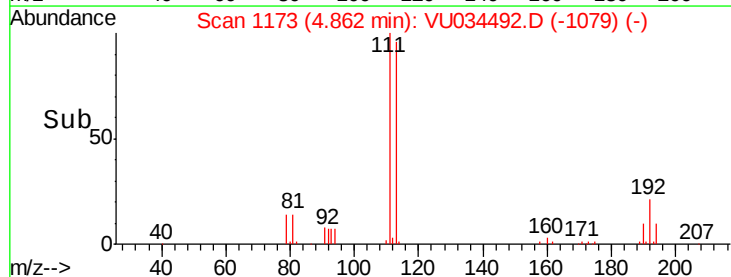
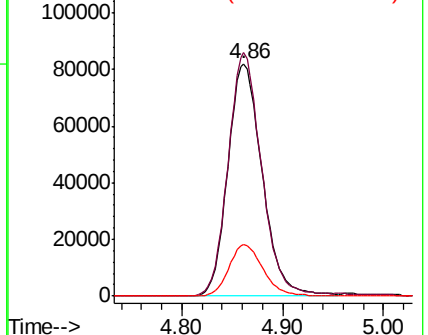


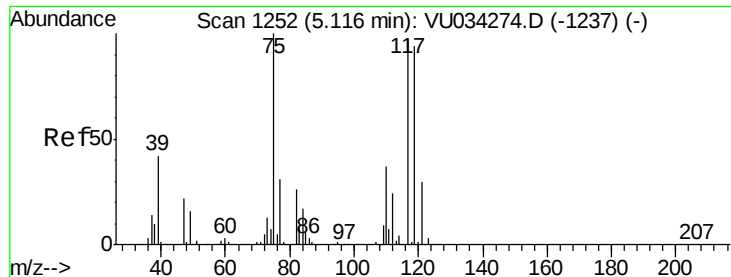
#35
 Dibromofluoromethane
 Concen: 54.901 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034492.D
 Acq: 11 Sep 2019 22:11

Tgt Ion:113 Resp: 194214
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.5 122.3
 192 22.0 17.8 26.8



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

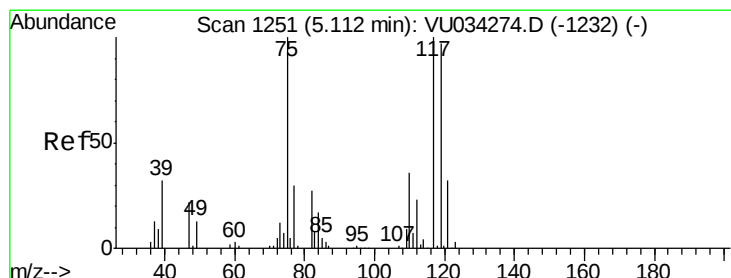
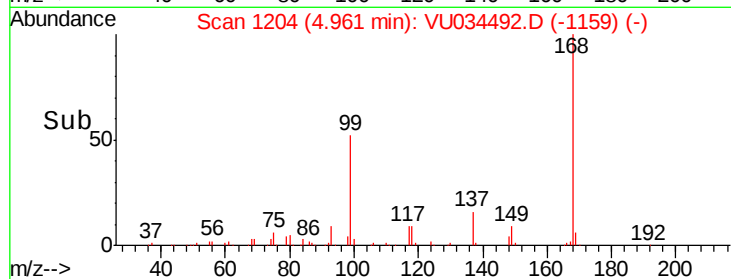
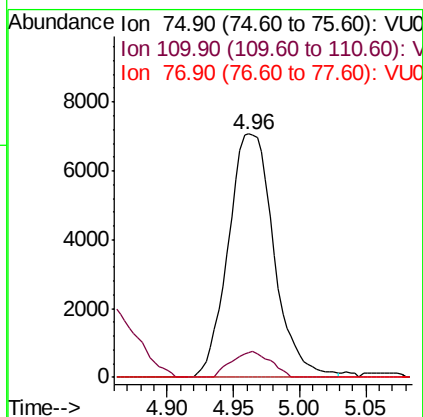
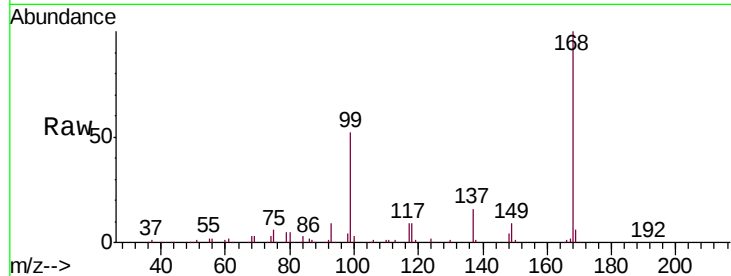




#36
 1,1-Dichloropropene
 Concen: 4.101 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034492.D
 Acq: 11 Sep 2019 22:11

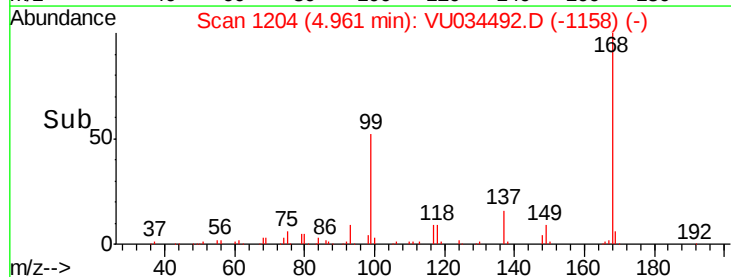
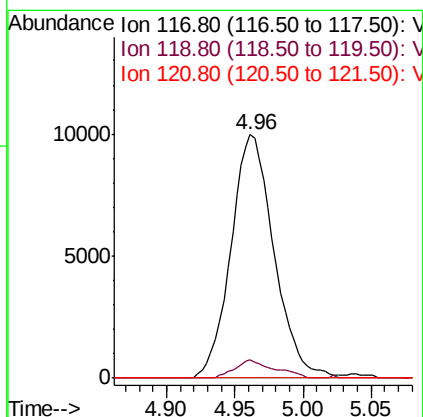
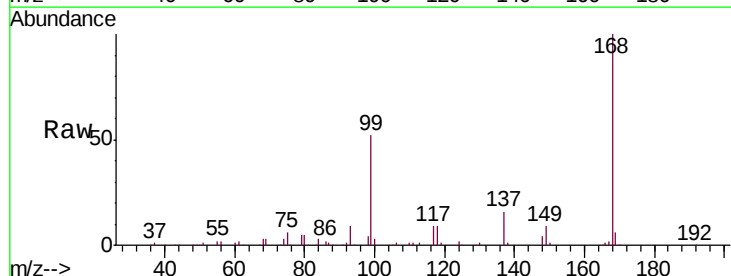
Instrument :
 MSVOA_U
 ClientSampleId :
 T-11-A1-(0)

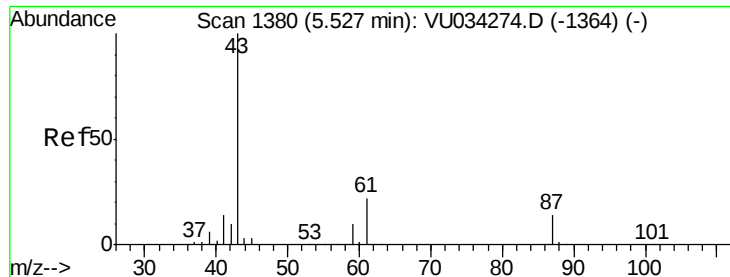
Tgt Ion: 75 Resp: 16909
 Ion Ratio Lower Upper
 75 100
 110 9.1 18.3 54.9#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 4.958 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034492.D
 Acq: 11 Sep 2019 22:11

Tgt Ion: 117 Resp: 21827
 Ion Ratio Lower Upper
 117 100
 119 7.4 77.8 116.6#
 121 0.0 25.2 37.8#





#43

Isopropyl Acetate

Concen: 8.106 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

Instrument :

MSVOA_U

ClientSampleId :

T-11-A1-(0)

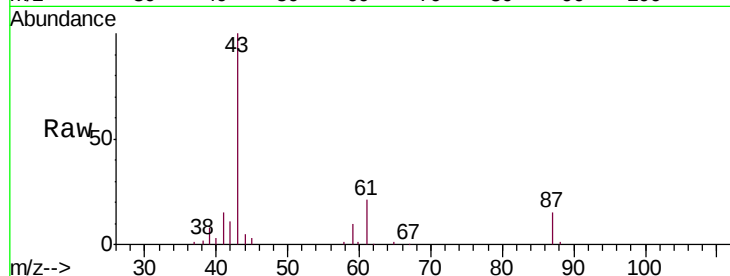
Tgt Ion: 43 Resp: 61643

Ion Ratio Lower Upper

43 100

61 20.7 17.1 25.7

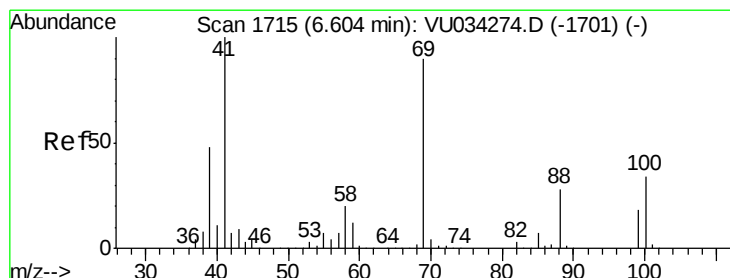
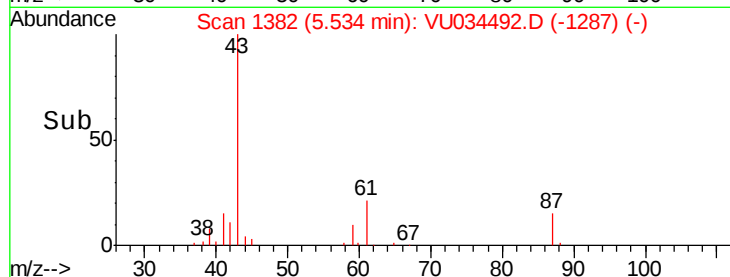
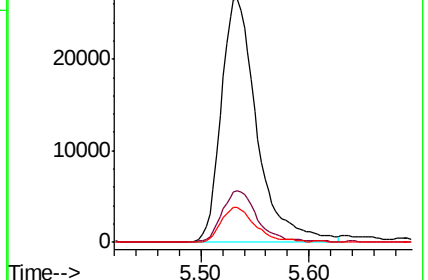
87 13.7 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VU034492.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034492.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034492.D (-1287) (-)



#48

Methyl methacrylate

Concen: 23.112 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.08 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

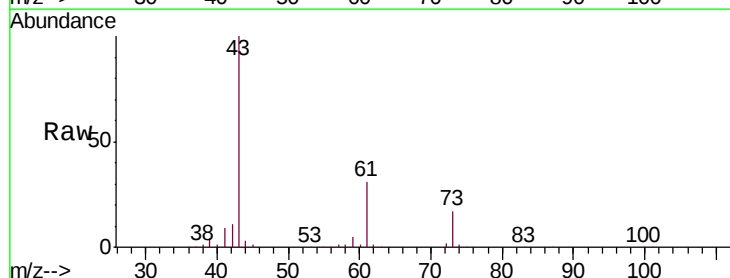
Tgt Ion: 41 Resp: 83476

Ion Ratio Lower Upper

41 100

69 0.0 72.8 109.2#

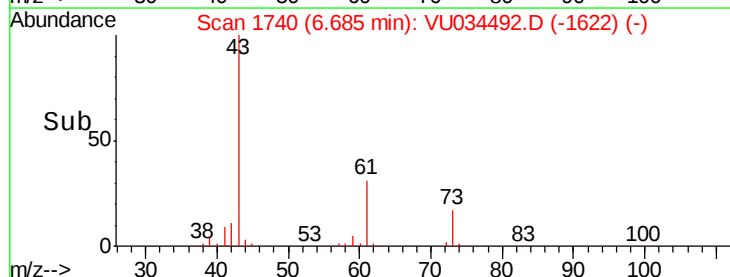
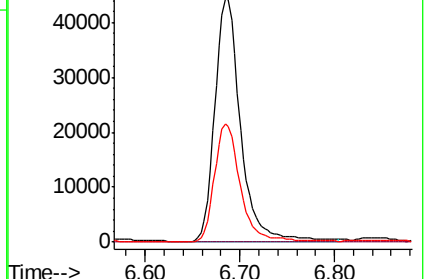
39 49.2 38.6 58.0

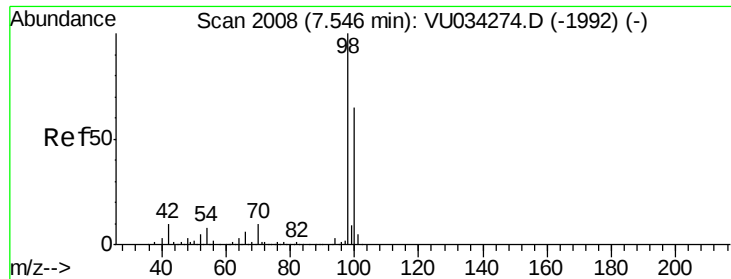


Abundance Ion 41.00 (40.70 to 41.70): VU034492.D (-1622) (-)

Ion 69.00 (68.70 to 69.70): VU034492.D (-1622) (-)

Ion 39.00 (38.70 to 39.70): VU034492.D (-1622) (-)

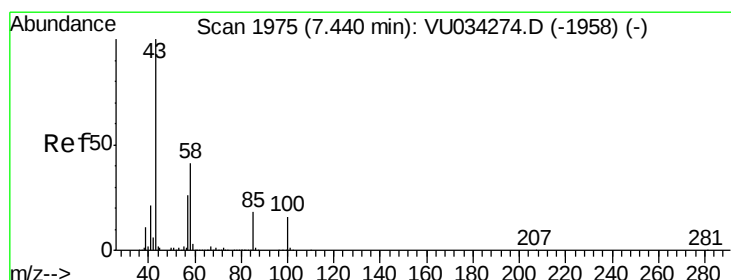
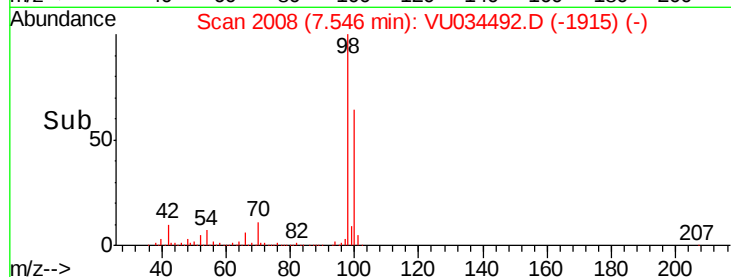
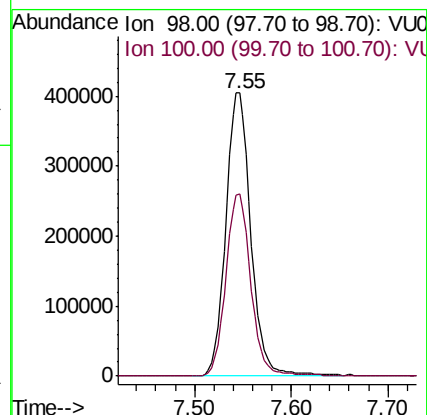
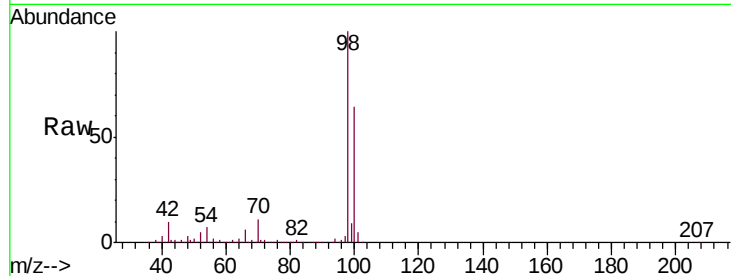




#50
Toluene-d8
Concen: 54.622 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034492.D
Acq: 11 Sep 2019 22:11

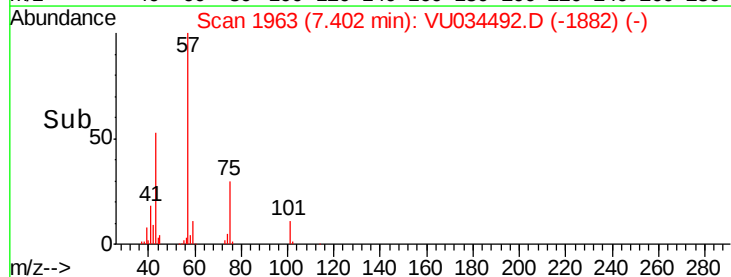
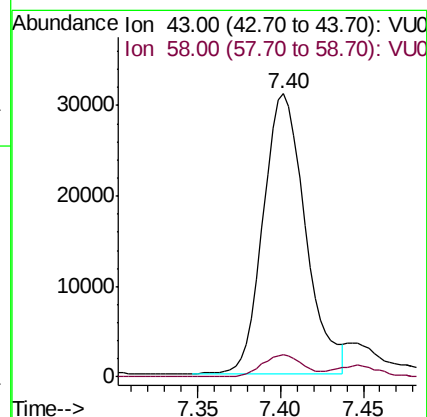
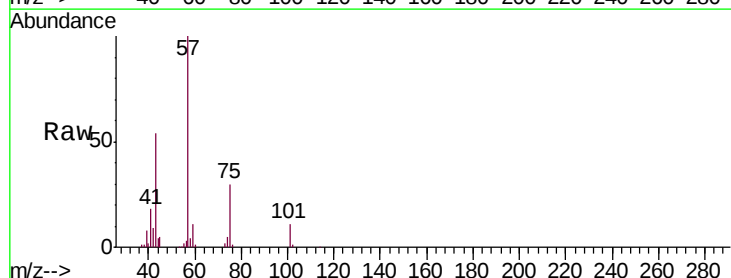
Instrument :
MSVOA_U
ClientSampleId :
T-11-A1-(0)

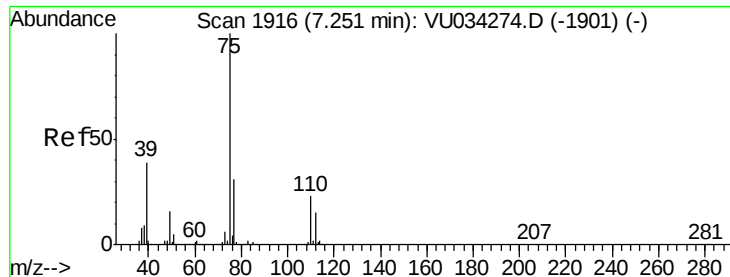
Tgt Ion: 98 Resp: 725956
Ion Ratio Lower Upper
98 100
100 64.9 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 10.418 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034492.D
Acq: 11 Sep 2019 22:11

Tgt Ion: 43 Resp: 54841
Ion Ratio Lower Upper
43 100
58 7.8 33.0 49.4#





#54

cis-1,3-Dichloropropene

Concen: 5.161 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

Instrument :

MSVOA_U

ClientSampleId :

T-11-A1-(0)

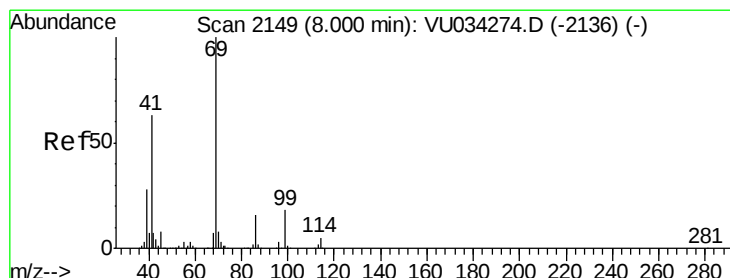
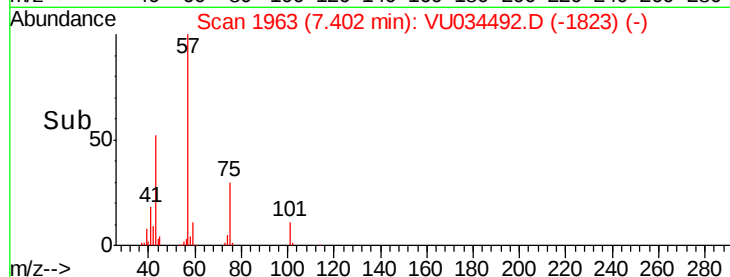
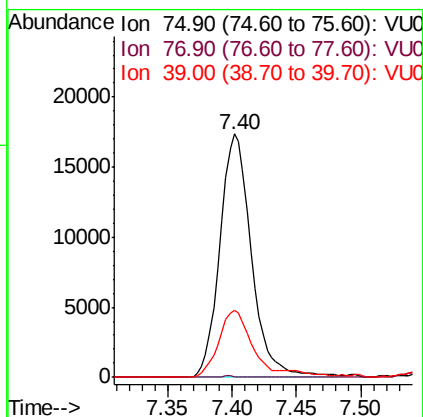
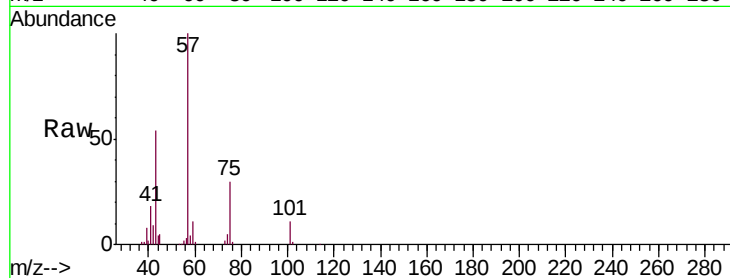
Tgt Ion: 75 Resp: 29509

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 27.7 31.2 46.8#



#56

Ethyl methacrylate

Concen: 3.094 ug/l

RT: 7.96 min Scan# 2138

Delta R.T. -0.03 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

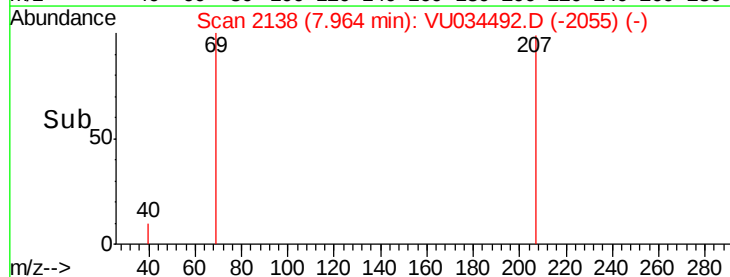
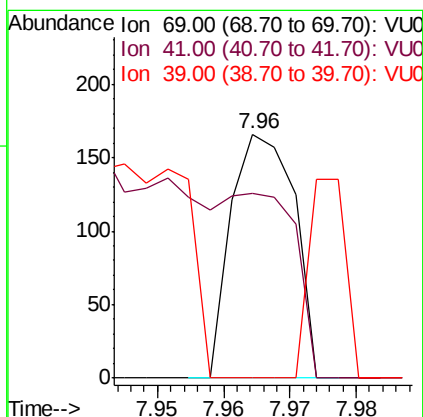
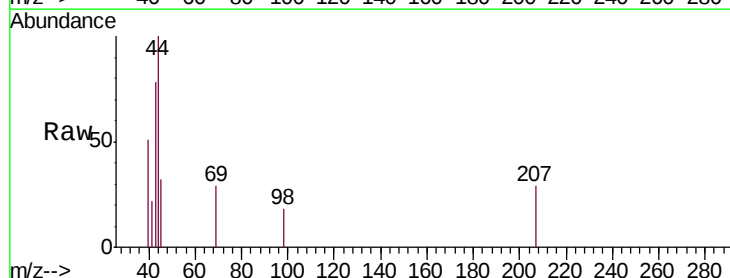
Tgt Ion: 69 Resp: 110

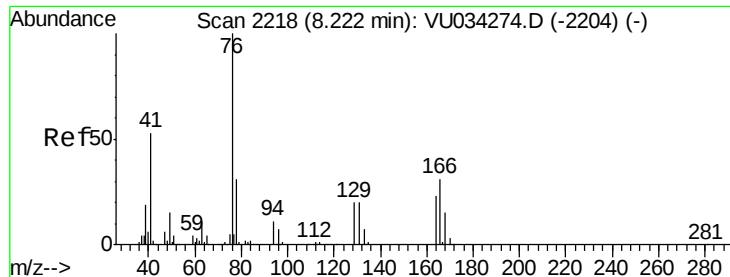
Ion Ratio Lower Upper

69 100

41 0.0 49.5 74.3#

39 0.0 22.5 33.7#





#57

1,3-Dichloropropane

Concen: 0.647 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.17 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

Instrument :

MSVOA_U

ClientSampleId :

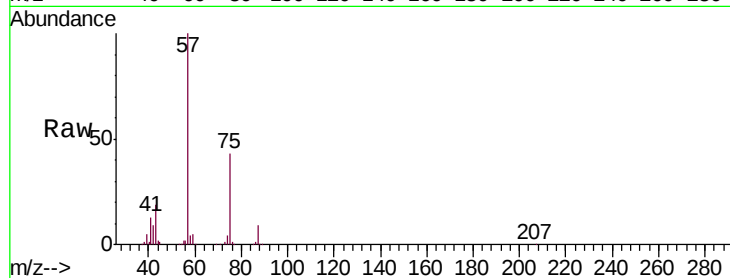
T-11-A1-(0)

Tgt Ion: 76 Resp: 3995

Ion Ratio Lower Upper

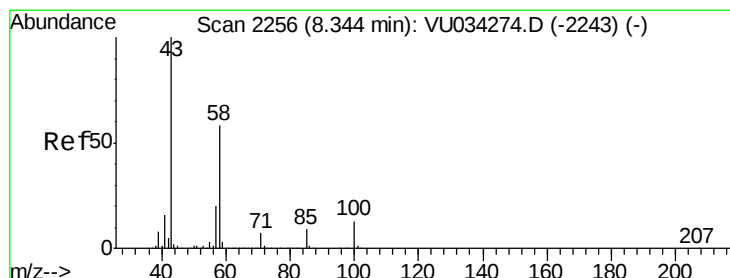
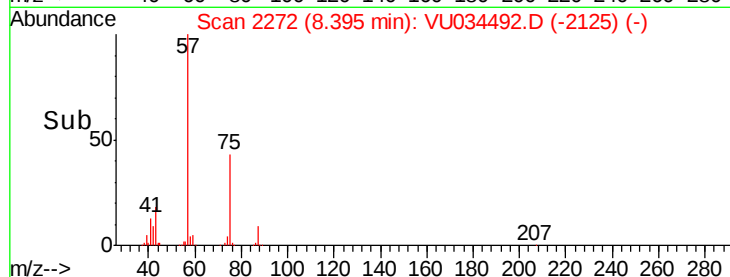
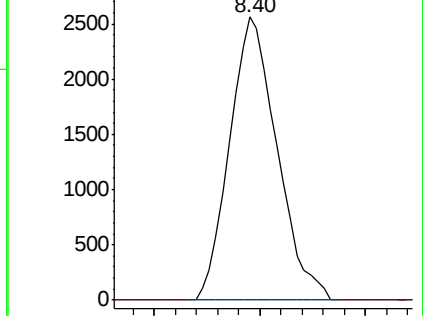
76 100

78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VU034492.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034492.D (-2125) (-)



#59

2-Hexanone

Concen: 13.594 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034492.D

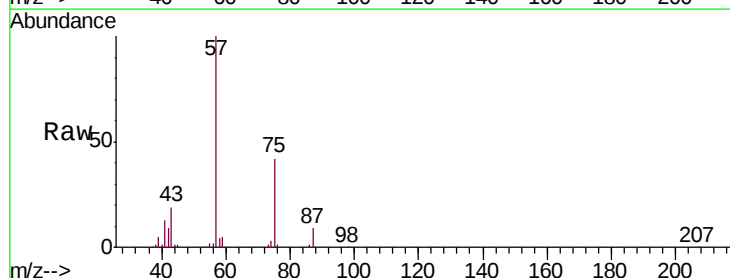
Acq: 11 Sep 2019 22:11

Tgt Ion: 43 Resp: 53457

Ion Ratio Lower Upper

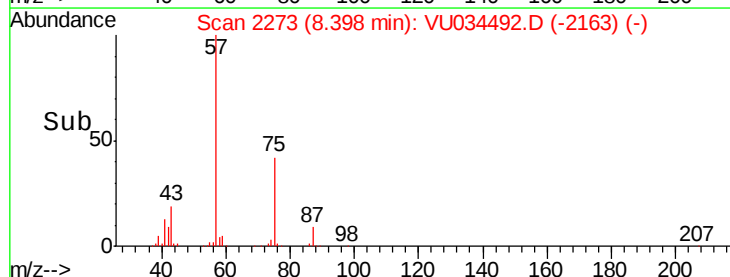
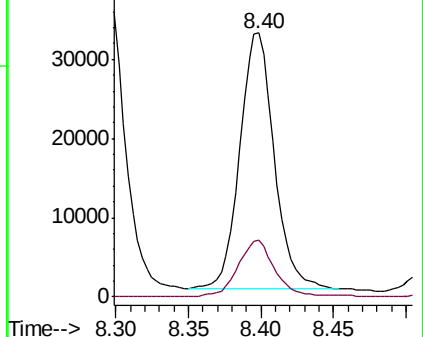
43 100

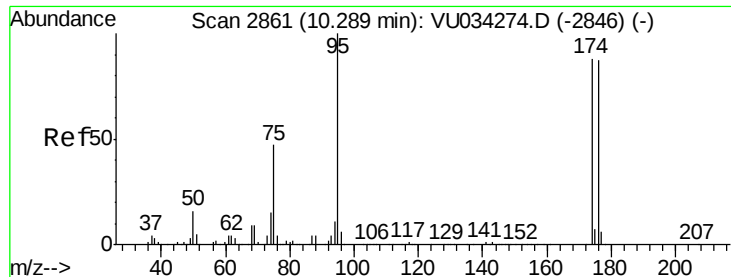
58 24.3 28.8 86.5#



Abundance Ion 43.00 (42.70 to 43.70): VU034492.D (-2163) (-)

Ion 58.00 (57.70 to 58.70): VU034492.D (-2163) (-)





#62

4-Bromofluorobenzene

Concen: 47.663 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

Instrument :

MSVOA_U

ClientSampleId :

T-11-A1-(0)

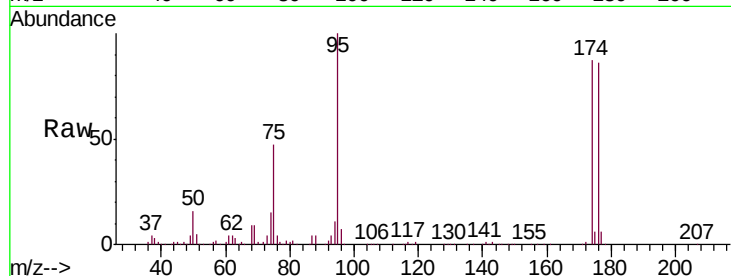
Tgt Ion: 95 Resp: 244579

Ion Ratio Lower Upper

95 100

174 88.9 0.0 175.2

176 86.1 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU034492.D (-2846) (-)

Ion 173.80 (173.50 to 174.50): VU034492.D (-2846) (-)

Ion 175.80 (175.50 to 176.50): VU034492.D (-2846) (-)

200000

150000

100000

50000

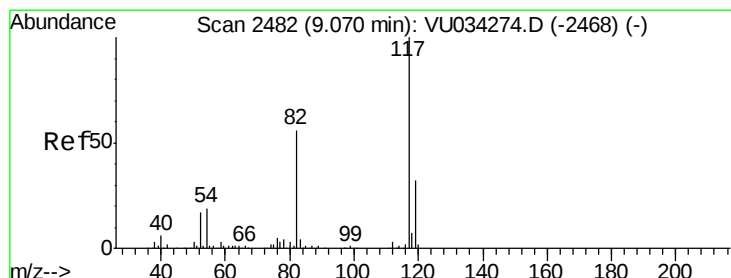
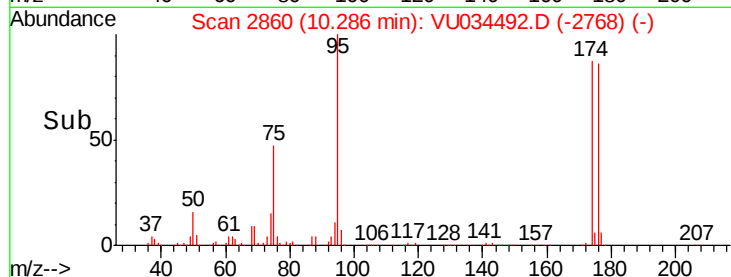
0

10.20

10.30

10.40

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

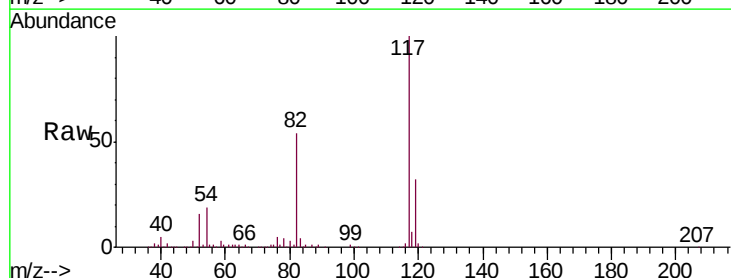
Tgt Ion: 117 Resp: 399264

Ion Ratio Lower Upper

117 100

82 54.4 44.6 67.0

119 32.3 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): VU034492.D (-2468) (-)

Ion 82.00 (81.70 to 82.70): VU034492.D (-2468) (-)

Ion 118.90 (118.60 to 119.60): VU034492.D (-2468) (-)

300000

250000

200000

150000

100000

50000

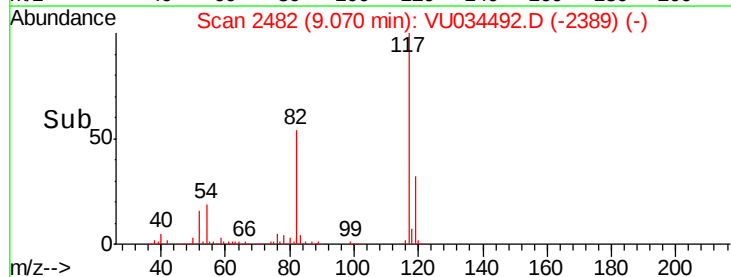
0

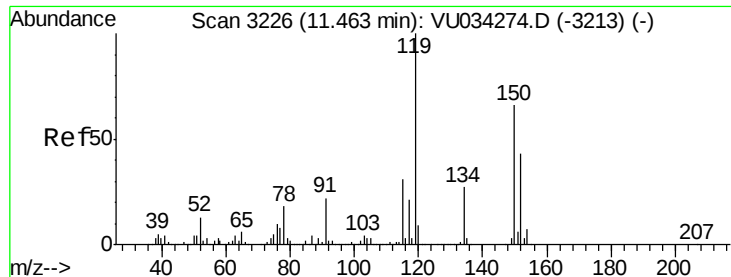
9.00

9.10

9.20

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

Instrument :

MSVOA_U

ClientSampleId :

T-11-A1-(0)

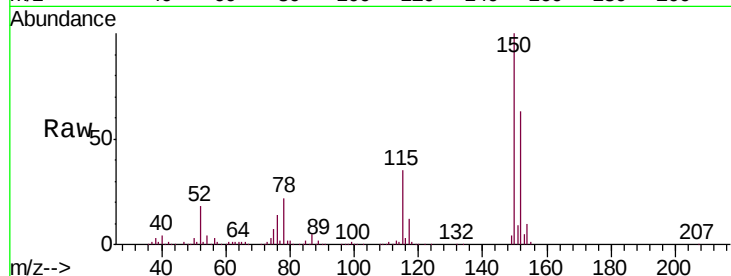
Tgt Ion:152 Resp: 219227

Ion Ratio Lower Upper

152 100

115 56.5 39.1 117.3

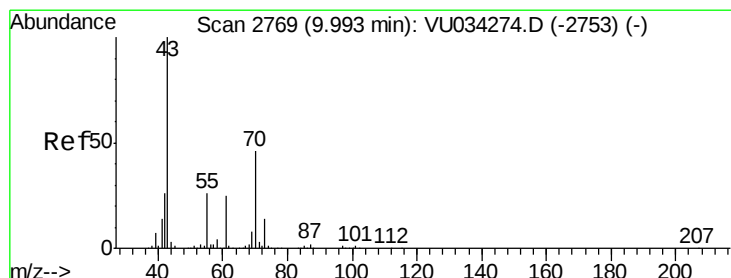
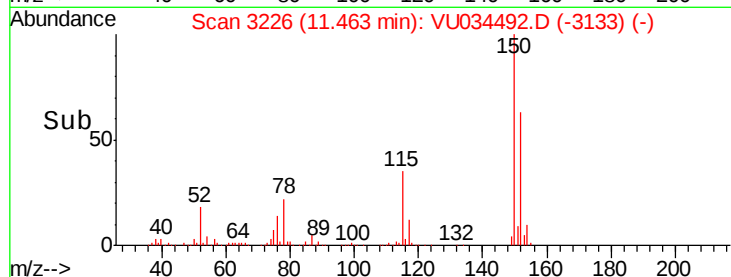
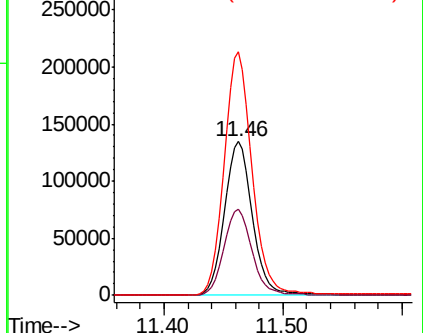
150 159.6 0.0 345.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.464 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.07 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

Tgt Ion: 43 Resp: 2667

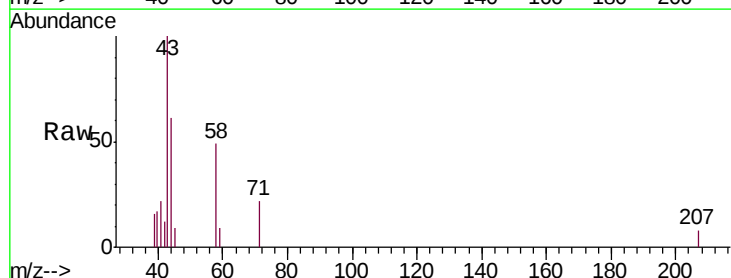
Ion Ratio Lower Upper

43 100

70 0.0 36.4 54.6#

55 7.0 21.2 31.8#

61 0.0 20.4 30.6#

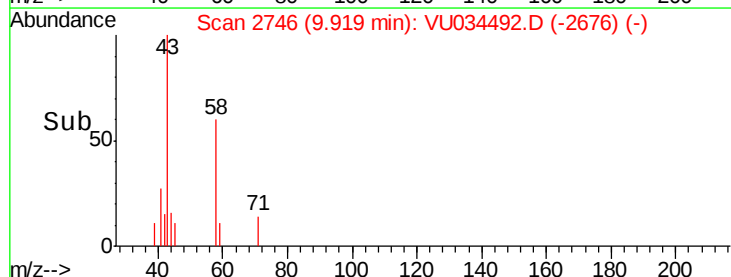
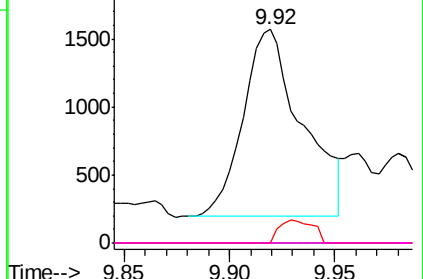


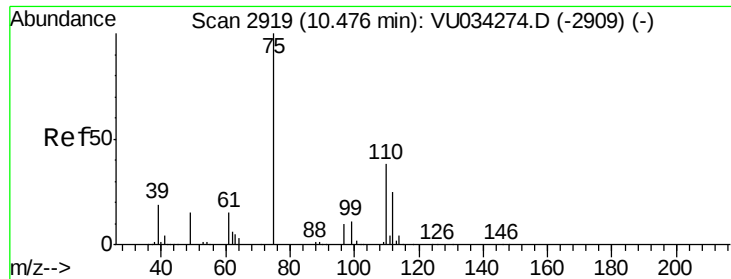
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#76

1,2,3-Trichloropropane

Concen: 24.266 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

Instrument :

MSVOA_U

ClientSampleId :

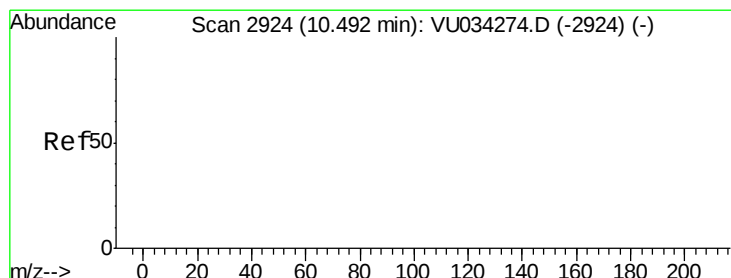
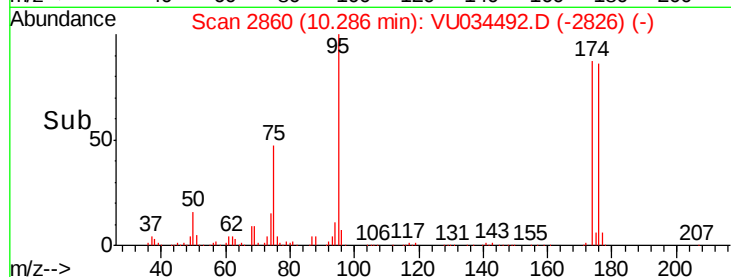
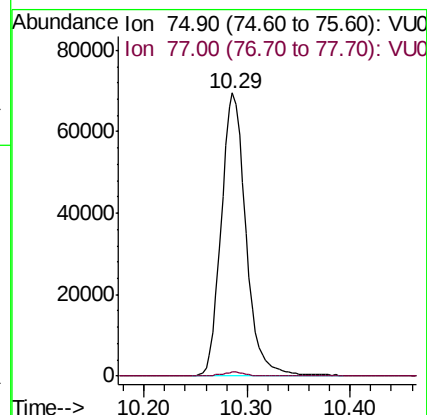
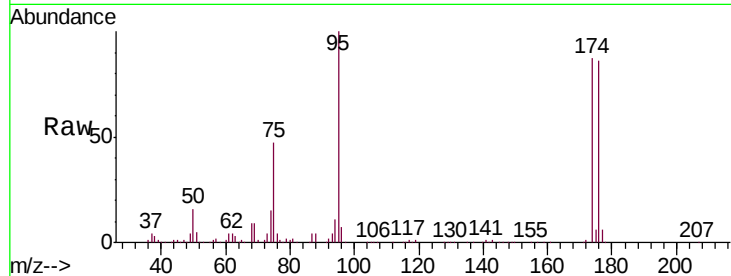
T-11-A1-(0)

Tgt Ion: 75 Resp: 116122

Ion Ratio Lower Upper

75 100

77 1.4 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 81.606 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034492.D

Acq: 11 Sep 2019 22:11

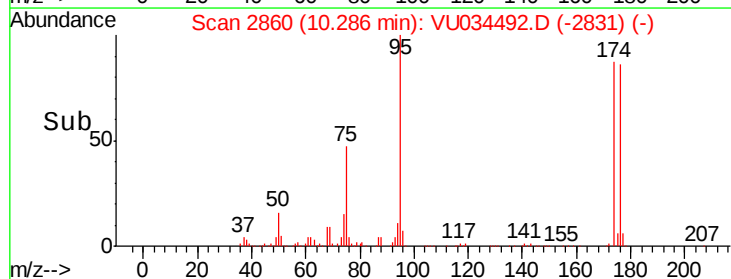
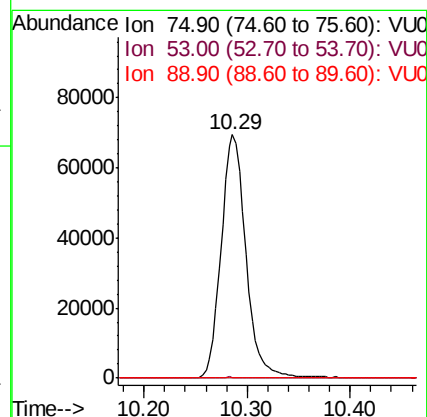
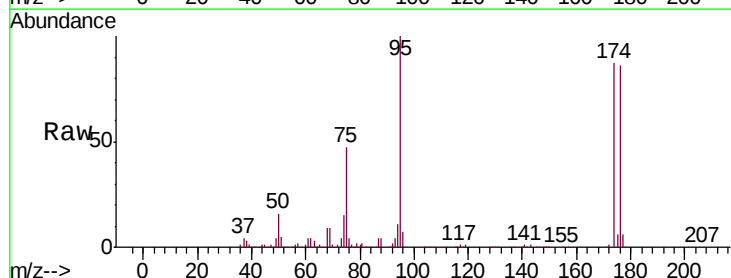
Tgt Ion: 75 Resp: 116122

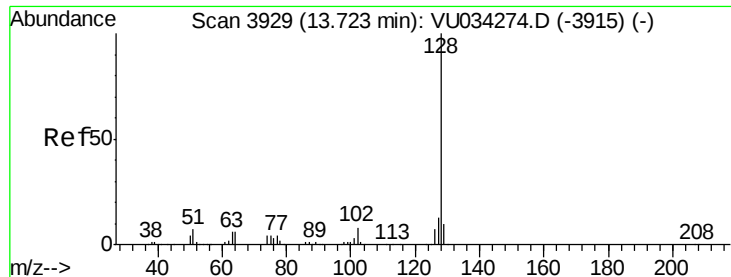
Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

89 0.0 0.0 0.0





#95
 Naphthalene
 Concen: 3.973 ug/l
 RT: 13.80 min Scan# 3953
 Delta R.T. 0.08 min
 Lab File: VU034492.D
 Acq: 11 Sep 2019 22:11

Instrument :
 MSVOA_U
 ClientSampleId :
 T-11-A1-(0)

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	0.0	8.4	12.6#

