

Data File : VU034488.D
Acq On : 11 Sep 2019 20:38
Operator : JC/SP
Sample : K4643-27
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T11-B2-(4)

Quant Time: Sep 12 04:44:04 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	253737	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	383295	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	402187	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	222252	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	227867	59.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.70%	
35) Dibromofluoromethane	4.86	113	198289	55.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.20%	
50) Toluene-d8	7.55	98	726489	54.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.44%	
62) 4-Bromofluorobenzene	10.29	95	246062	47.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.12%	

Target Compounds

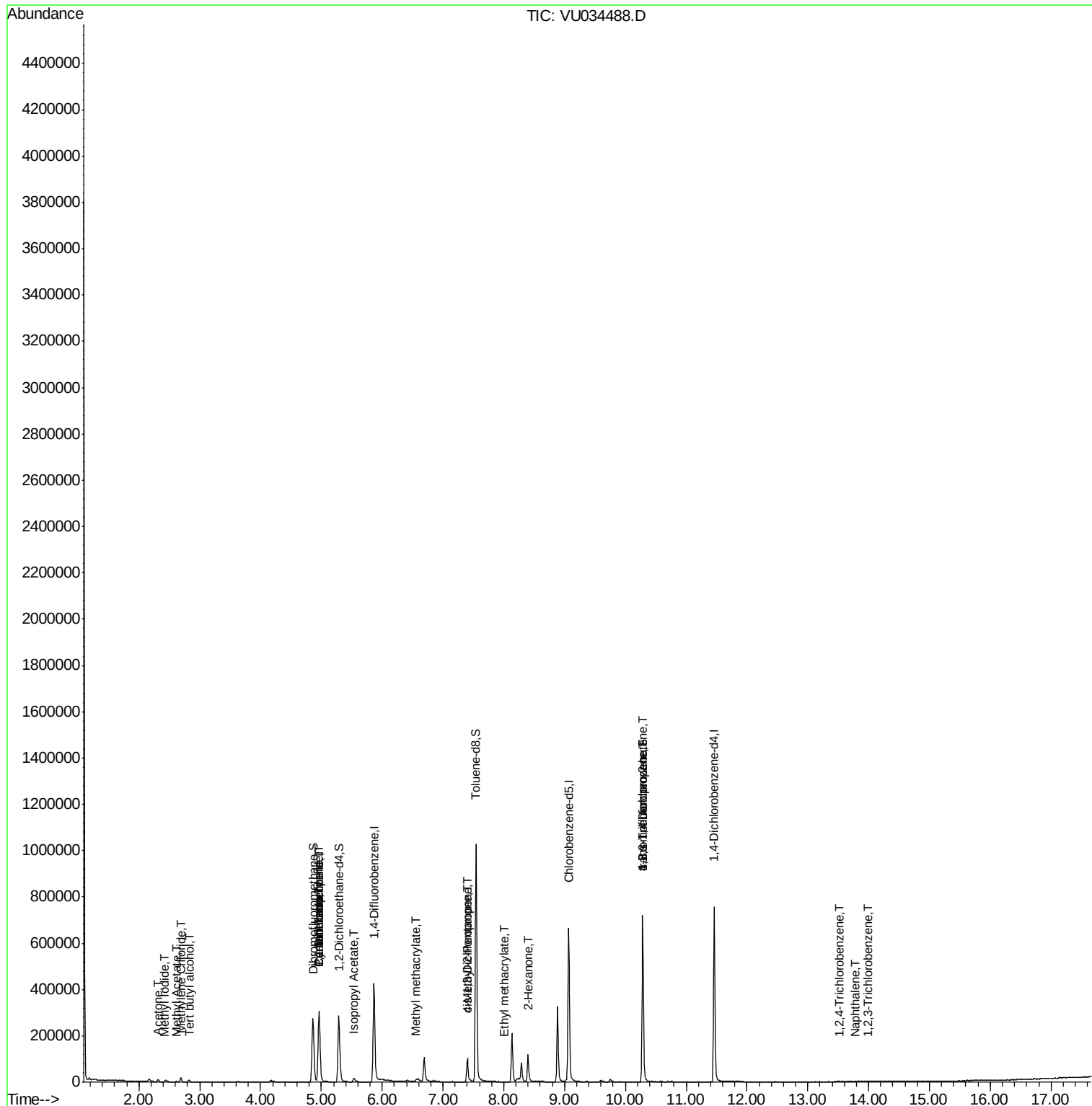
					Qvalue
5) Bromomethane	1.63	94	667	Below Cal	89
6) Chloroethane	1.68	64	65	Below Cal	# 43
10) Methyl Iodide	2.41	142	320	3.956 ug/l	# 58
11) Tert butyl alcohol	2.82	59	5094	6.281 ug/l	# 73
16) Acetone	2.31	43	10419	5.244 ug/l	95
18) Methyl Acetate	2.62	43	2804	0.580 ug/l	# 77
20) Methylene Chloride	2.69	84	7866	2.034 ug/l	96
31) Cyclohexane	4.97	56	4215	0.937 ug/l	# 1
36) 1,1-Dichloropropene	4.96	75	17571	4.227 ug/l	# 49
38) Carbon Tetrachloride	4.96	117	22677	5.109 ug/l	# 16
43) Isopropyl Acetate	5.54	43	18944	2.471 ug/l	99
48) Methyl methacrylate	6.54	41	2478	0.680 ug/l	# 17
51) 4-Methyl-2-Pentanone	7.40	43	35486	6.687 ug/l	# 46
54) cis-1,3-Dichloropropene	7.40	75	19066	3.308 ug/l	# 66
56) Ethyl methacrylate	8.01	69	95	3.092 ug/l	# 28
59) 2-Hexanone	8.40	43	16417	4.141 ug/l	# 60
76) 1,2,3-Trichloropropane	10.29	75	115243	23.755 ug/l	# 36
81) trans-1,4-Dichloro-2-buten	10.29	75	115243	79.886 ug/l	# 100
93) 1,2,4-Trichlorobenzene	13.53	180	41	3.459 ug/l	# 1
95) Naphthalene	13.78	128	549	4.000 ug/l	# 69
96) 1,2,3-Trichlorobenzene	13.99	180	120	2.661 ug/l	# 69

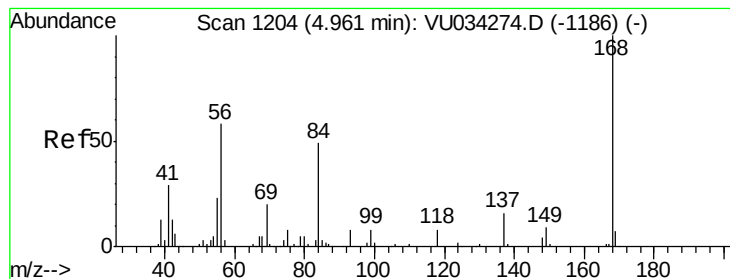
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034488.D

Acq: 11 Sep 2019 20:38

Instrument :

MSVOA_U

ClientSampleId :

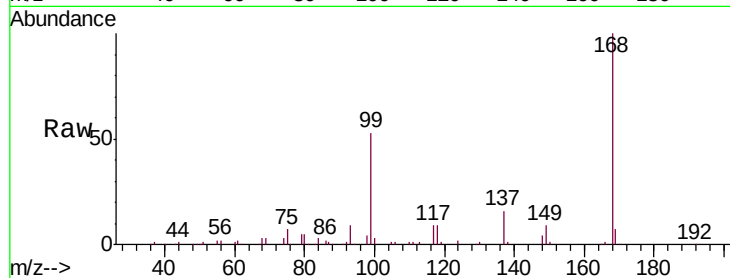
T11-B2-(4)

Tgt Ion:168 Resp: 253737

Ion Ratio Lower Upper

168 100

99 52.5 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034488.D (-1111) (-)

Ion 98.90 (98.60 to 99.60): VU034488.D (-1111) (-)

4.96

120000

100000

80000

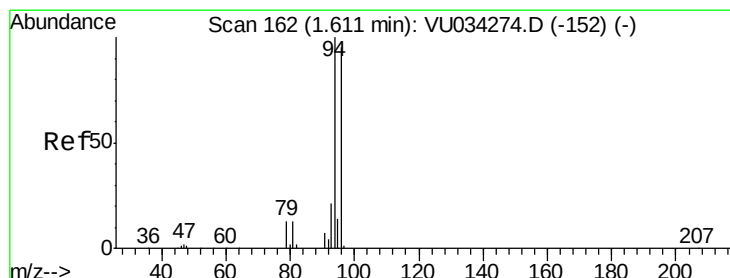
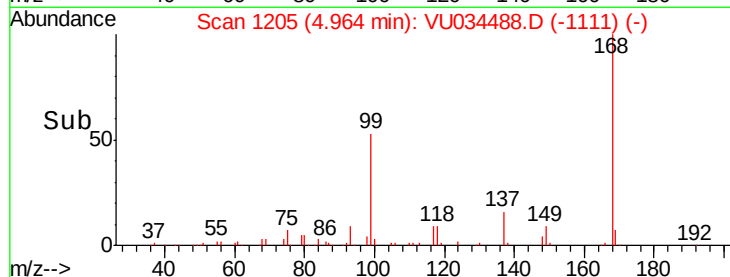
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034488.D

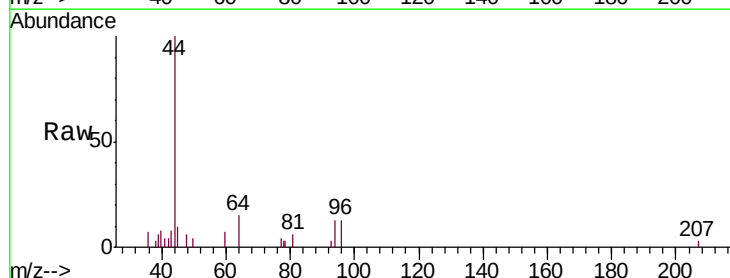
Acq: 11 Sep 2019 20:38

Tgt Ion: 94 Resp: 667

Ion Ratio Lower Upper

94 100

96 105.3 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034488.D (-68) (-)

Ion 95.90 (95.60 to 96.60): VU034488.D (-68) (-)

1.63

500

400

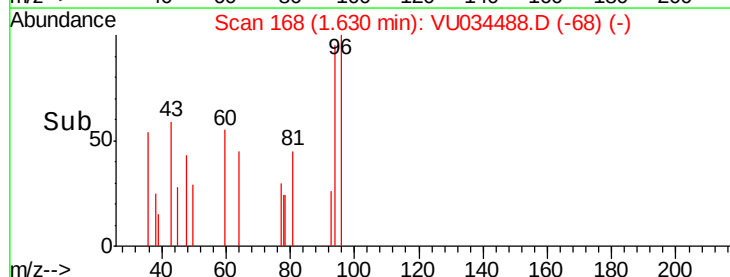
300

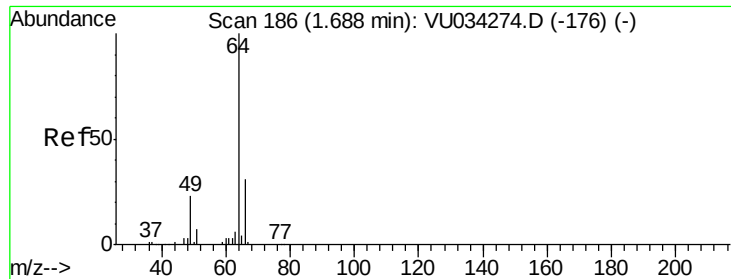
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 185

Delta R.T. -0.00 min

Lab File: VU034488.D

Acq: 11 Sep 2019 20:38

Instrument :

MSVOA_U

ClientSampleId :

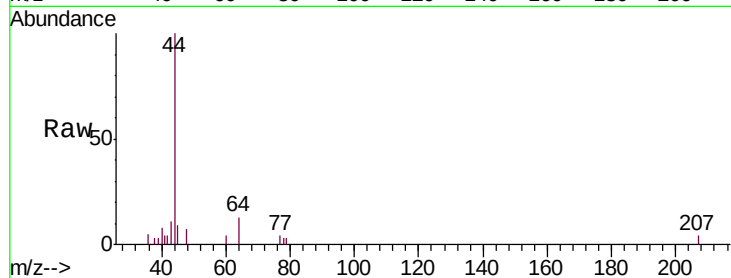
T11-B2-(4)

Tgt Ion: 64 Resp: 65

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU034274.D (-176) (-)

Ion 65.90 (65.60 to 66.60): VU034274.D (-176) (-)

1.68

400

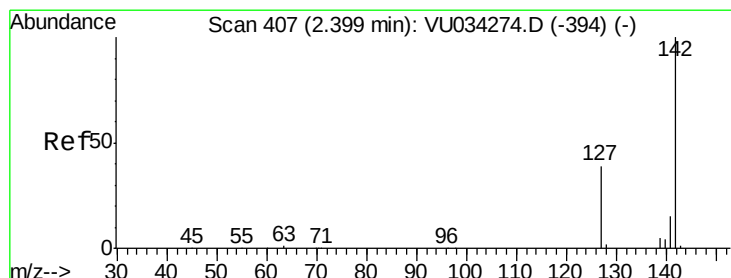
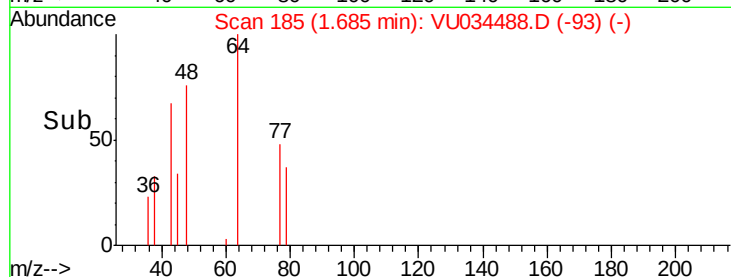
300

200

100

0

Time-->



#10

Methyl Iodide

Concen: 3.956 ug/l

RT: 2.41 min Scan# 409

Delta R.T. 0.01 min

Lab File: VU034488.D

Acq: 11 Sep 2019 20:38

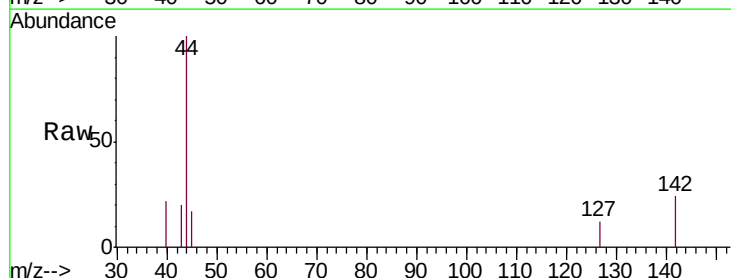
Tgt Ion: 142 Resp: 320

Ion Ratio Lower Upper

142 100

127 12.5 32.1 48.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VU034274.D (-394) (-)

Ion 126.80 (126.50 to 127.50): VU034274.D (-394) (-)

Ion 140.80 (140.50 to 141.50): VU034274.D (-394) (-)

2.41

200

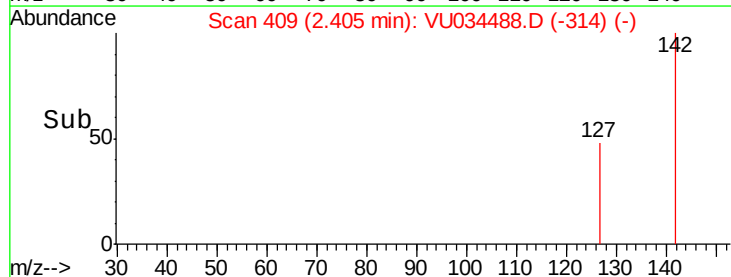
150

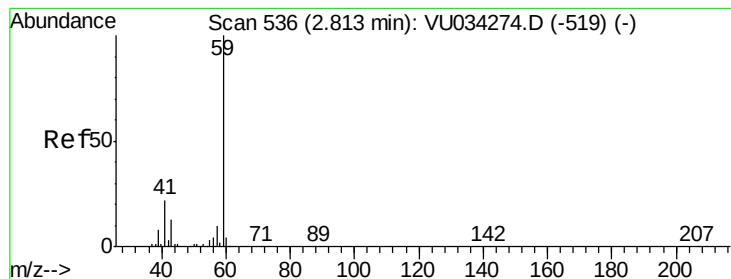
100

50

0

Time-->





#11

Tert butyl alcohol

Concen: 6.281 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.01 min

Lab File: VU034488.D

Acq: 11 Sep 2019 20:38

Instrument :

MSVOA_U

ClientSampleId :

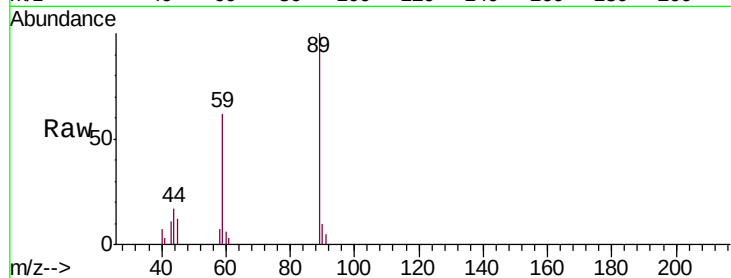
T11-B2-(4)

Tgt Ion: 59 Resp: 5094

Ion Ratio Lower Upper

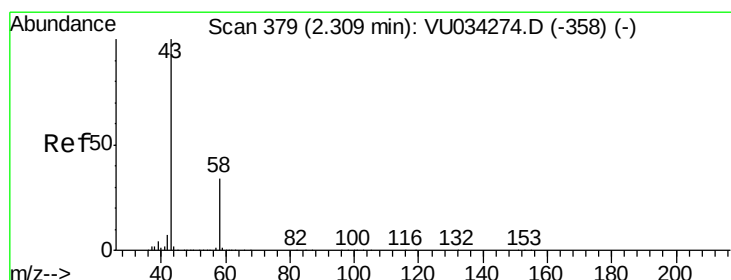
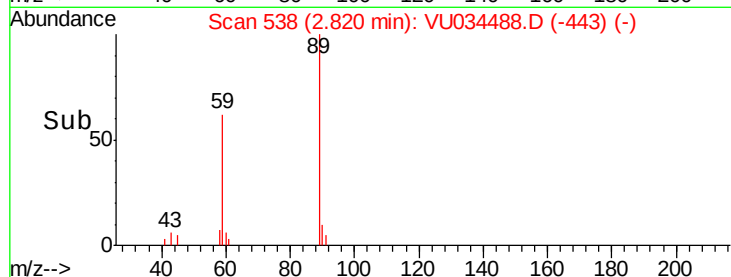
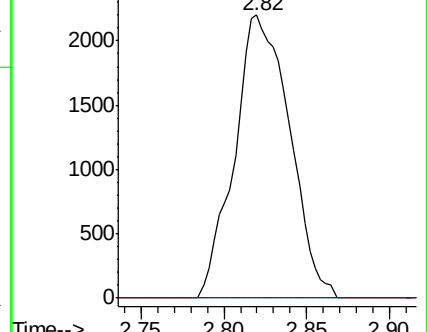
59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034488.D (-519) (-)

Ion 57.00 (56.70 to 57.70): VU034488.D (-519) (-)



#16

Acetone

Concen: 5.244 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034488.D

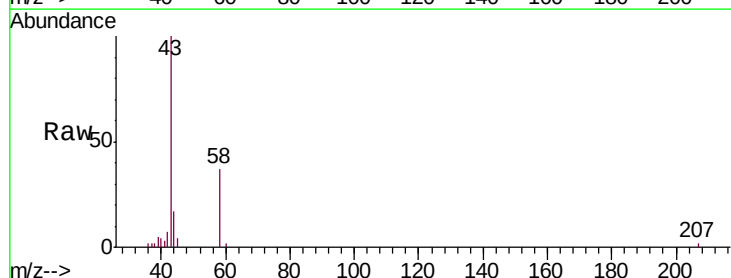
Acq: 11 Sep 2019 20:38

Tgt Ion: 43 Resp: 10419

Ion Ratio Lower Upper

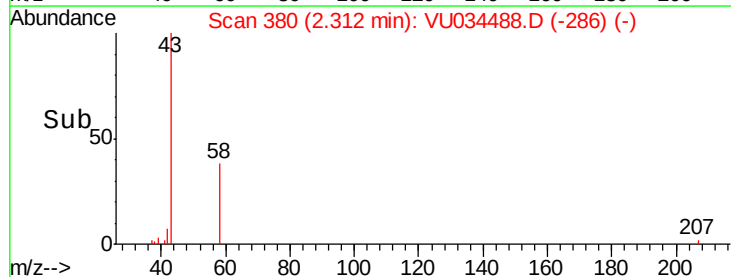
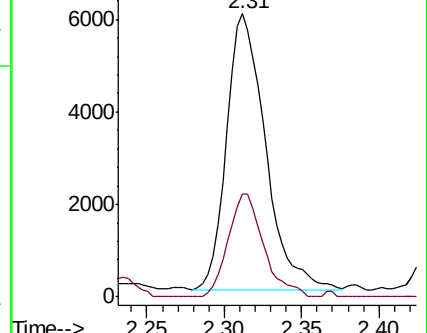
43 100

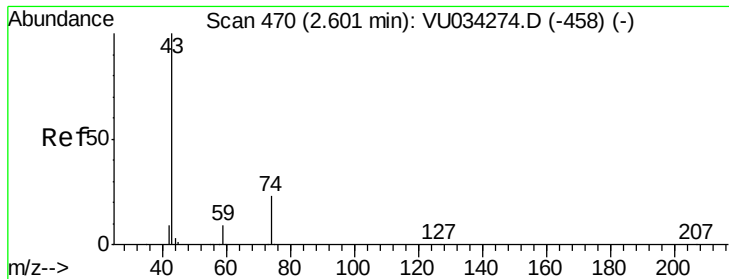
58 37.5 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034488.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034488.D (-358) (-)

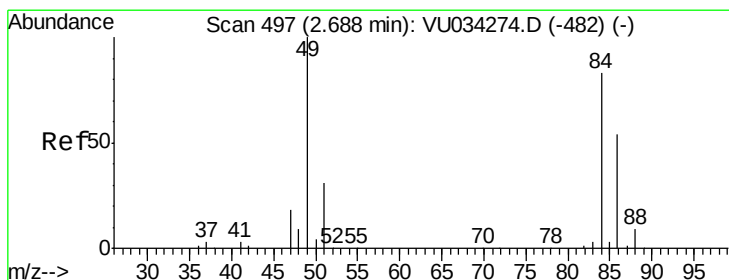
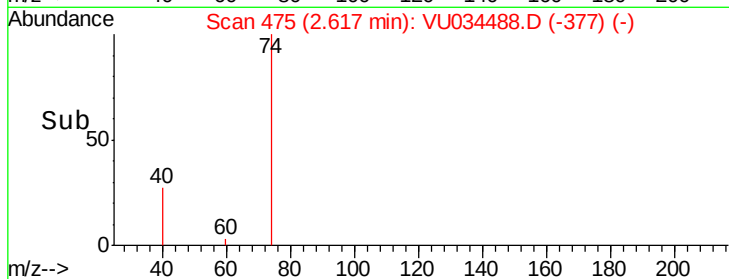
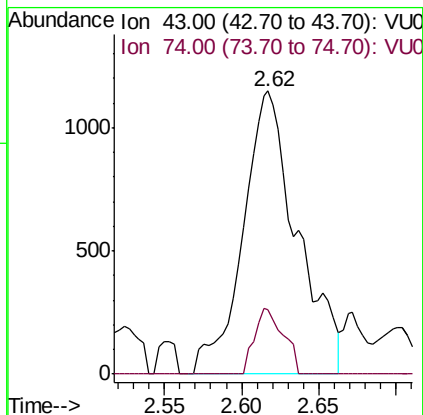
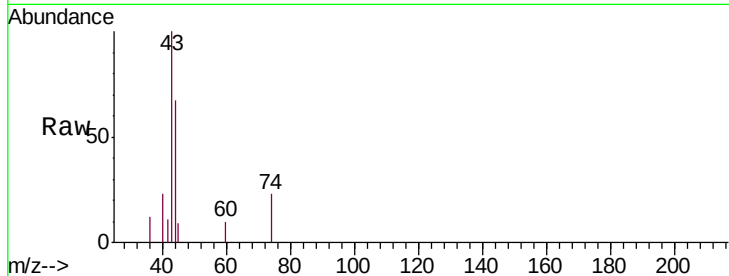




#18
Methyl Acetate
Concen: 0.580 ug/l
RT: 2.62 min Scan# 475
Delta R.T. 0.02 min
Lab File: VU034488.D
Acq: 11 Sep 2019 20:38

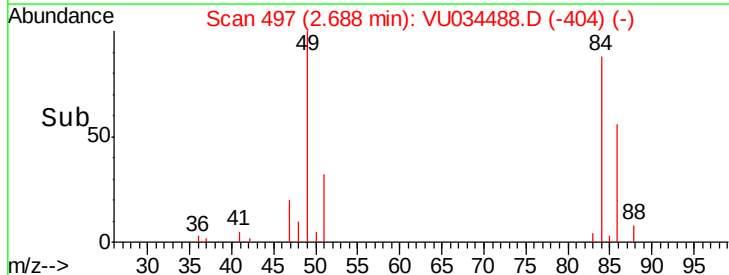
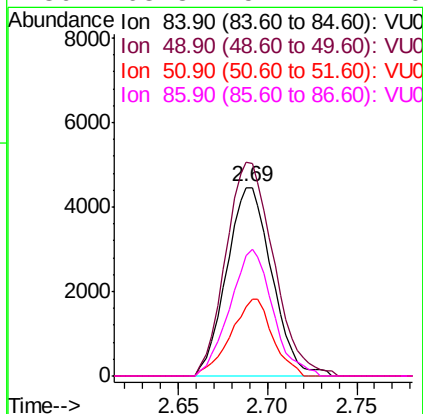
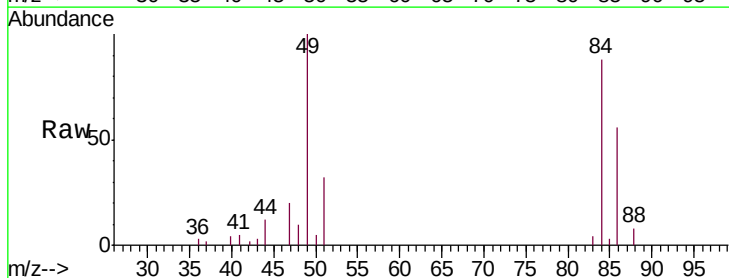
Instrument :
MSVOA_U
ClientSampleId :
T11-B2-(4)

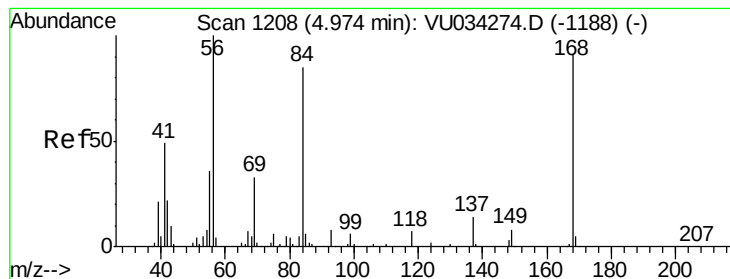
Tgt Ion: 43 Resp: 2804
Ion Ratio Lower Upper
43 100
74 12.4 18.9 28.3#



#20
Methylene Chloride
Concen: 2.034 ug/l
RT: 2.69 min Scan# 497
Delta R.T. -0.00 min
Lab File: VU034488.D
Acq: 11 Sep 2019 20:38

Tgt Ion: 84 Resp: 7866
Ion Ratio Lower Upper
84 100
49 113.1 96.0 144.0
51 36.5 30.0 45.0
86 63.8 51.4 77.0





#31

Cyclohexane

Concen: 0.937 ug/l

RT: 4.97 min Scan# 1206

Delta R.T. -0.01 min

Lab File: VU034488.D

Acq: 11 Sep 2019 20:38

Instrument :

MSVOA_U

ClientSampleId :

T11-B2-(4)

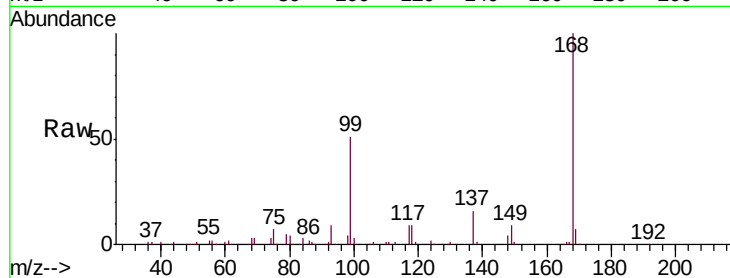
Tgt Ion: 56 Resp: 4215

Ion Ratio Lower Upper

56 100

69 193.0 26.7 40.1#

84 176.2 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU034488.D (-1188) (-)

Ion 69.00 (68.70 to 69.70): VU034488.D (-1188) (-)

Ion 84.00 (83.70 to 84.70): VU034488.D (-1188) (-)

Time-->

4.90 4.95 5.00

5.05

5.07

5.09

5.11

5.13

5.15

5.17

5.19

5.21

5.23

5.25

5.27

5.29

5.31

5.33

5.35

5.37

5.39

5.41

5.43

5.45

5.47

5.49

5.51

5.53

5.55

5.57

5.59

5.61

5.63

5.65

5.67

5.69

5.71

5.73

5.75

5.77

5.79

5.81

5.83

5.85

5.87

5.89

5.91

5.93

5.95

5.97

5.99

6.01

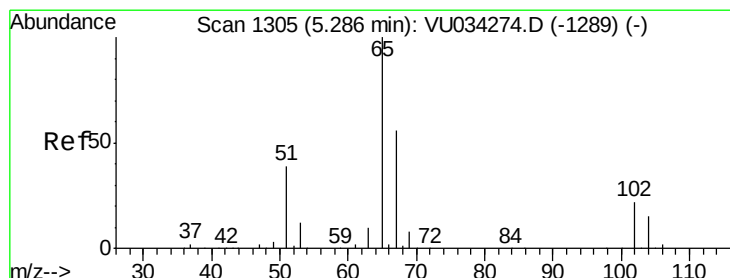
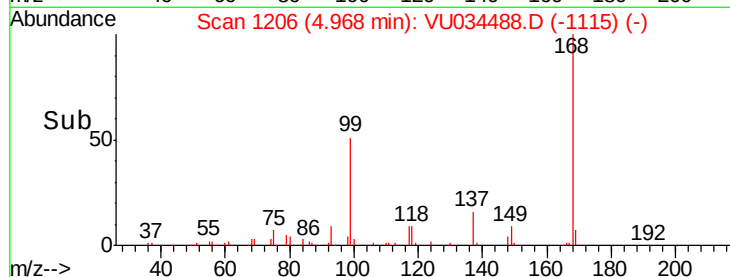
6.03

6.05

6.07

6.09

6.11



#33

1,2-Dichloroethane-d4

Concen: 59.354 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034488.D

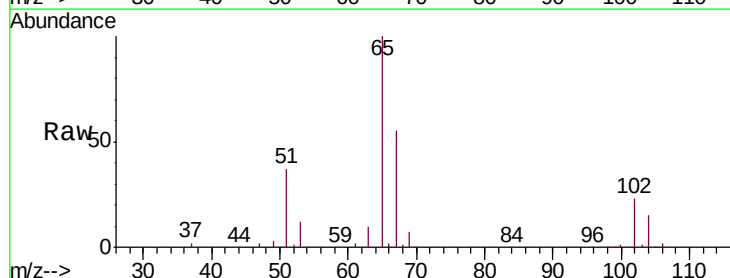
Acq: 11 Sep 2019 20:38

Tgt Ion: 65 Resp: 227867

Ion Ratio Lower Upper

65 100

67 55.0 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU034488.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034488.D (-1212) (-)

Time-->

5.20 5.25 5.30 5.35 5.40

5.45

5.47

5.49

5.51

5.53

5.55

5.57

5.59

5.61

5.63

5.65

5.67

5.69

5.71

5.73

5.75

5.77

5.79

5.81

5.83

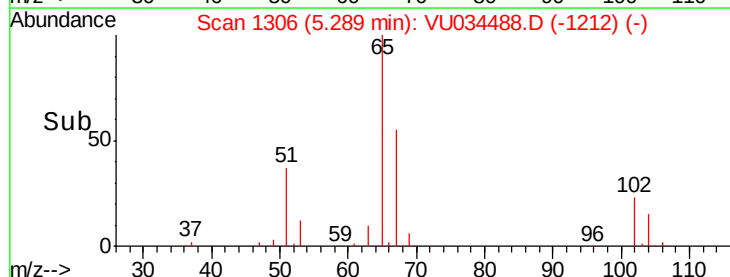
5.85

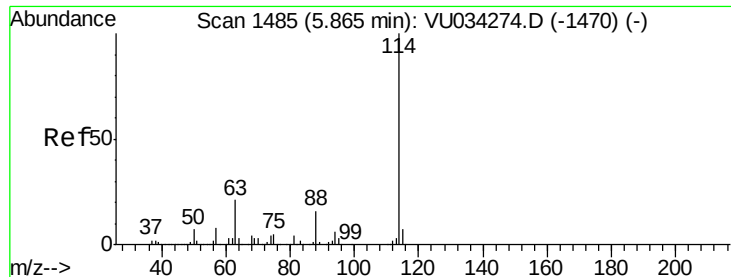
5.87

5.89

5.91

5.93





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034488.D

Acq: 11 Sep 2019 20:38

Instrument :

MSVOA_U

ClientSampleId :

T11-B2-(4)

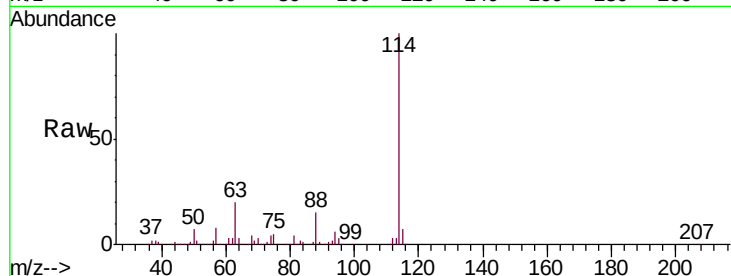
Tgt Ion:114 Resp: 383295

Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.4

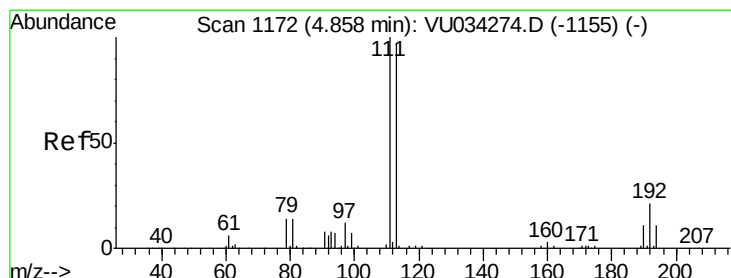
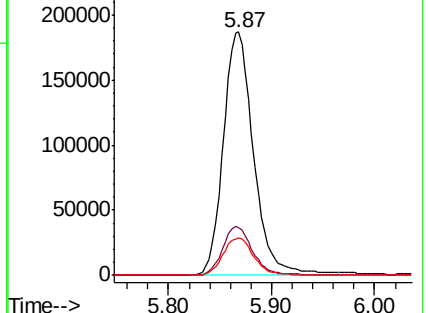
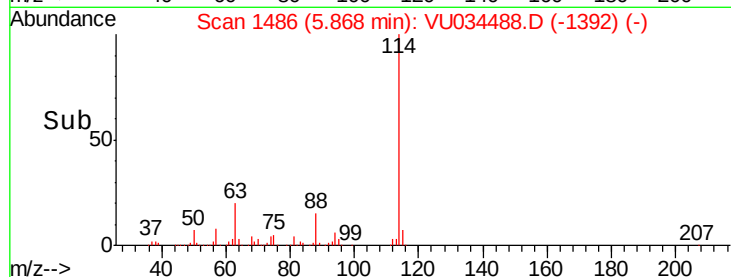
88 15.3 0.0 32.4



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: 55.597 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034488.D

Acq: 11 Sep 2019 20:38

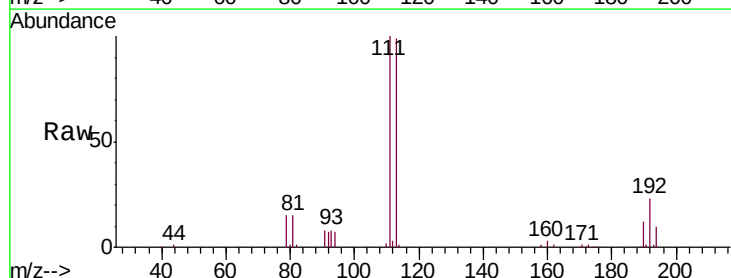
Tgt Ion:113 Resp: 198289

Ion Ratio Lower Upper

113 100

111 101.6 81.5 122.3

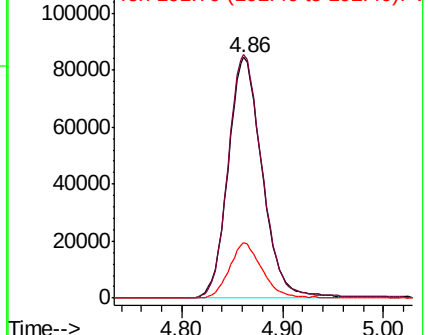
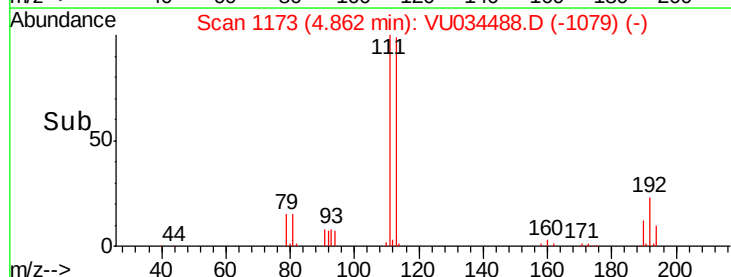
192 22.3 17.8 26.8

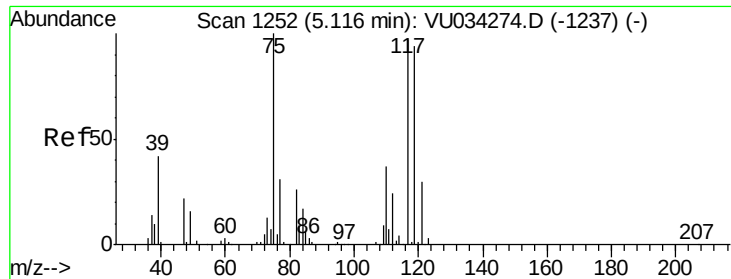


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

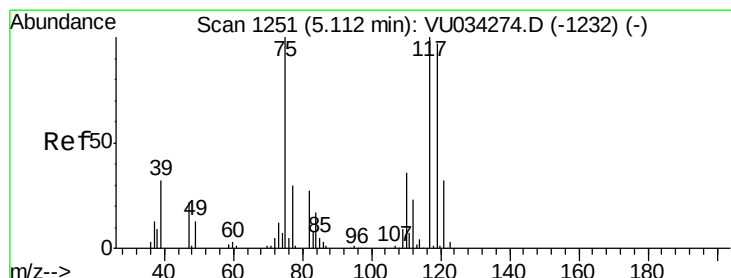
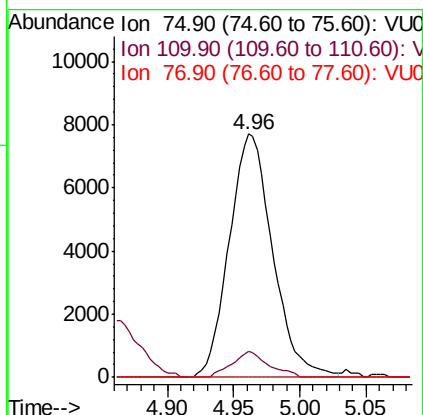
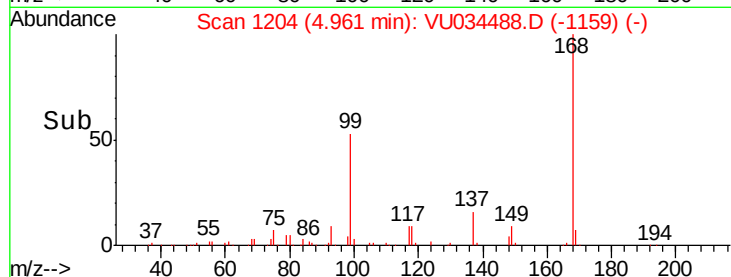
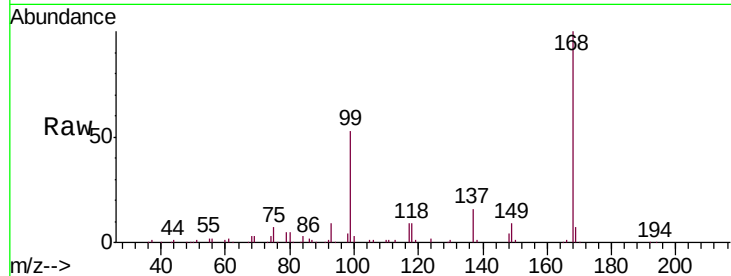




#36
 1,1-Dichloropropene
 Concen: 4.227 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034488.D
 Acq: 11 Sep 2019 20:38

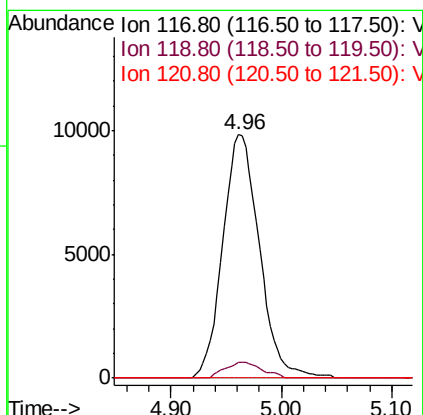
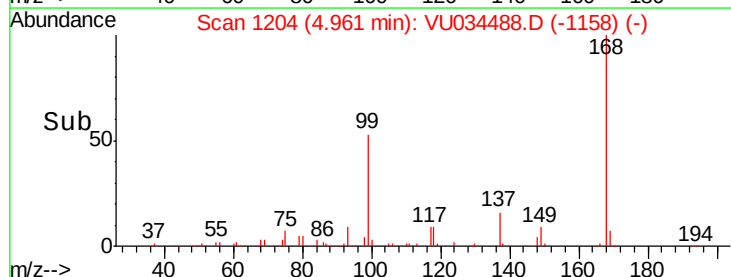
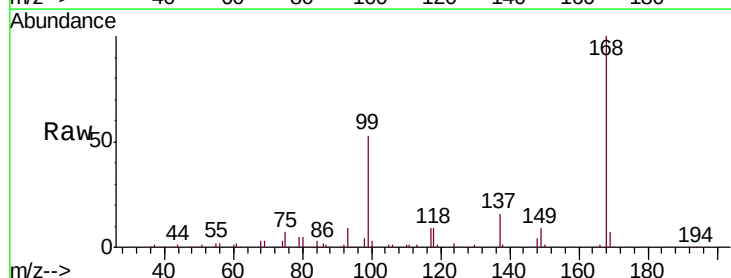
Instrument :
 MSVOA_U
 ClientSampleId :
 T11-B2-(4)

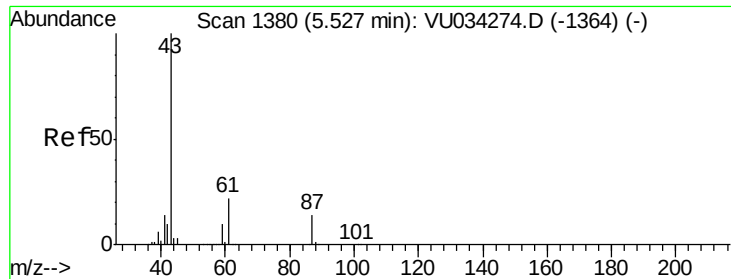
Tgt Ion: 75 Resp: 17571
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.3 54.9#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 5.109 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034488.D
 Acq: 11 Sep 2019 20:38

Tgt Ion: 117 Resp: 22677
 Ion Ratio Lower Upper
 117 100
 119 6.5 77.8 116.6#
 121 0.0 25.2 37.8#





#43

Isopropyl Acetate

Concen: 2.471 ug/l

RT: 5.54 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VU034488.D

Acq: 11 Sep 2019 20:38

Instrument :

MSVOA_U

ClientSampleId :

T11-B2-(4)

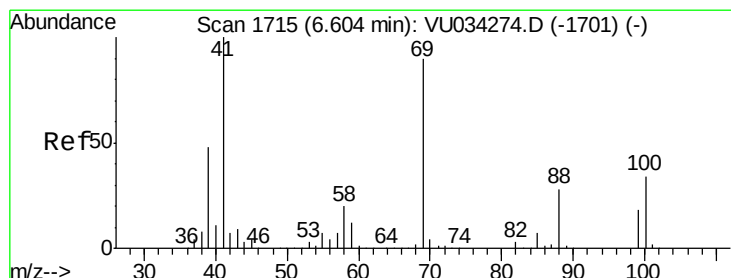
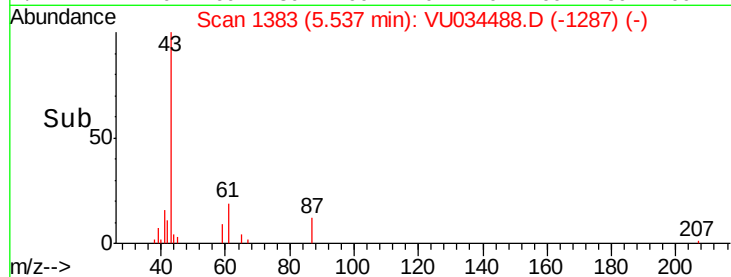
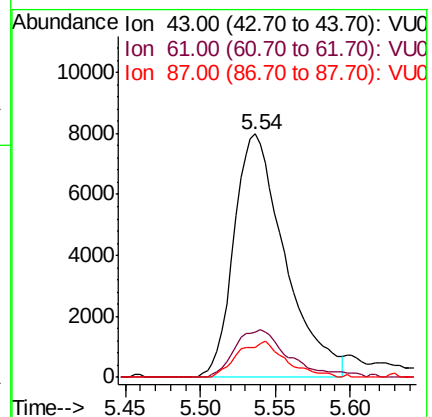
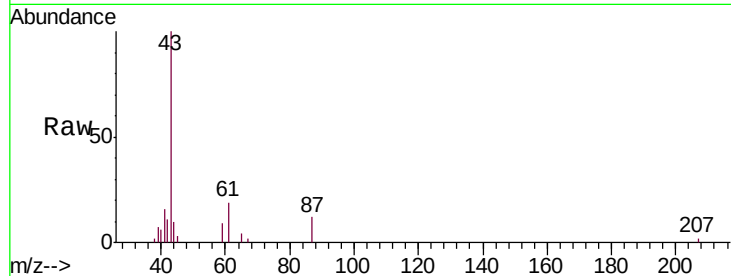
Tgt Ion: 43 Resp: 18944

Ion Ratio Lower Upper

43 100

61 20.9 17.1 25.7

87 14.1 11.1 16.7



#48

Methyl methacrylate

Concen: 0.680 ug/l

RT: 6.54 min Scan# 1695

Delta R.T. -0.06 min

Lab File: VU034488.D

Acq: 11 Sep 2019 20:38

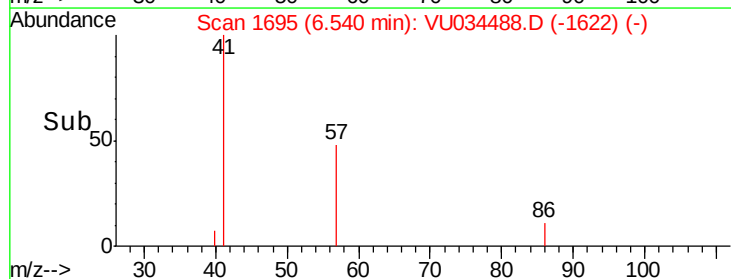
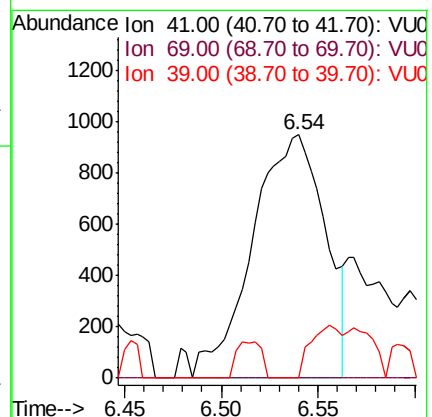
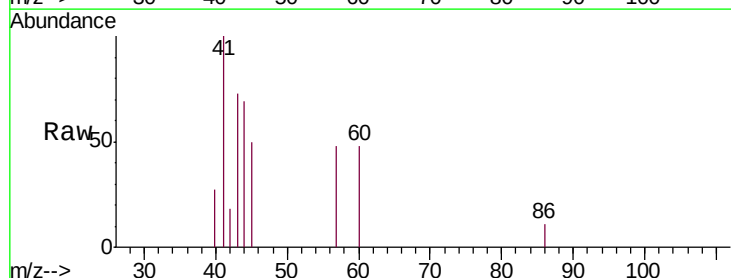
Tgt Ion: 41 Resp: 2478

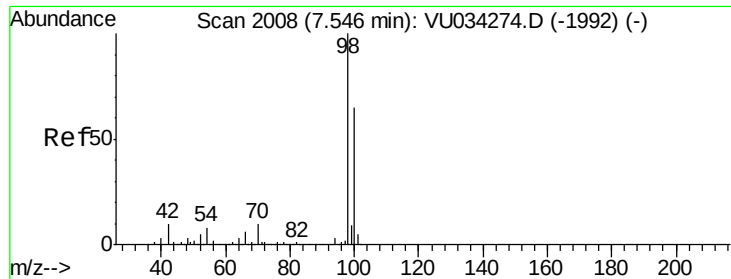
Ion Ratio Lower Upper

41 100

69 0.0 72.8 109.2#

39 9.2 38.6 58.0#

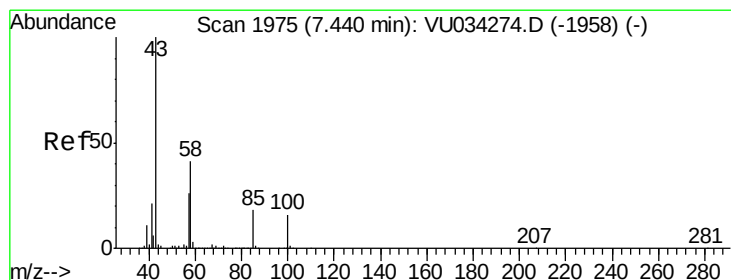
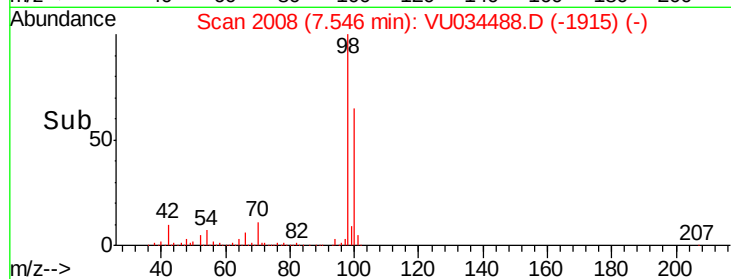
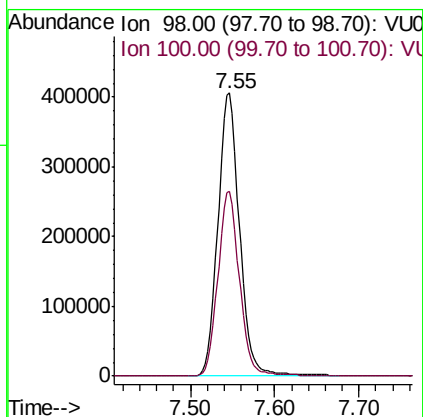
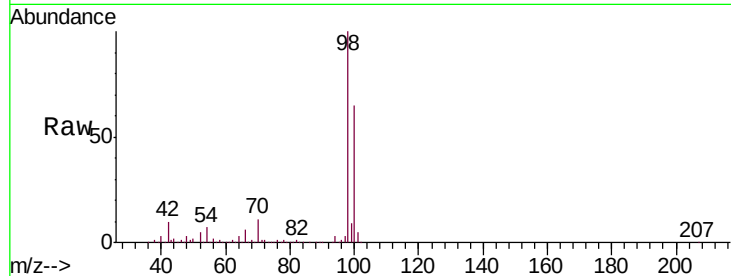




#50
Toluene-d8
Concen: 54.217 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034488.D
Acq: 11 Sep 2019 20:38

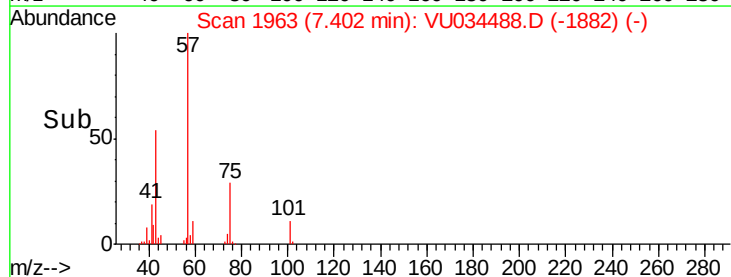
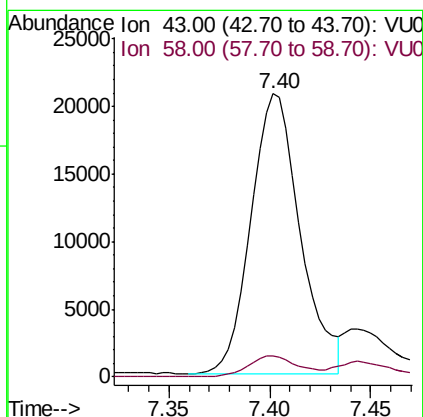
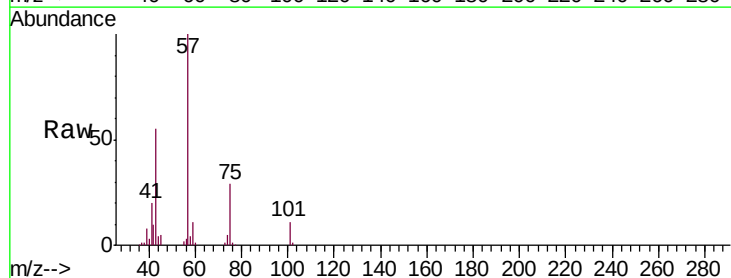
Instrument :
MSVOA_U
ClientSampleId :
T11-B2-(4)

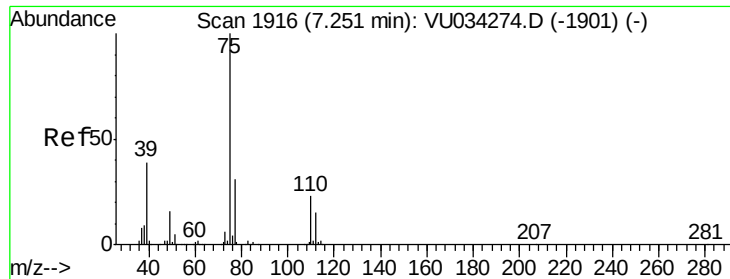
Tgt Ion: 98 Resp: 726489
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 6.687 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034488.D
Acq: 11 Sep 2019 20:38

Tgt Ion: 43 Resp: 35486
Ion Ratio Lower Upper
43 100
58 7.5 33.0 49.4#



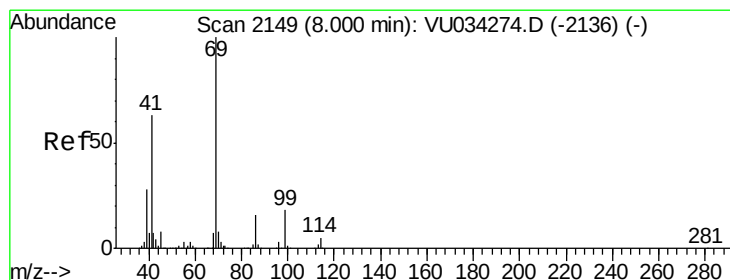
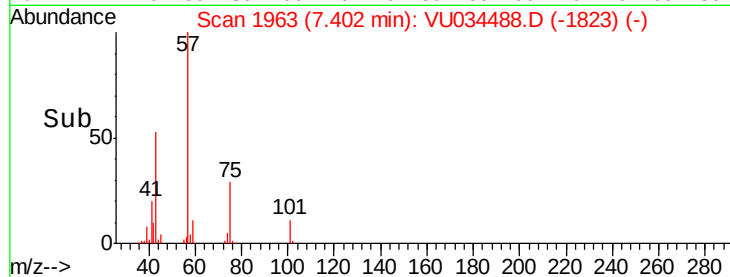
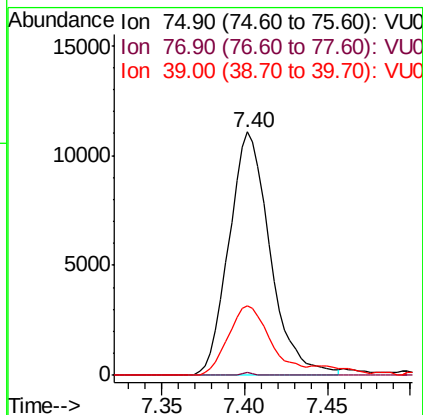
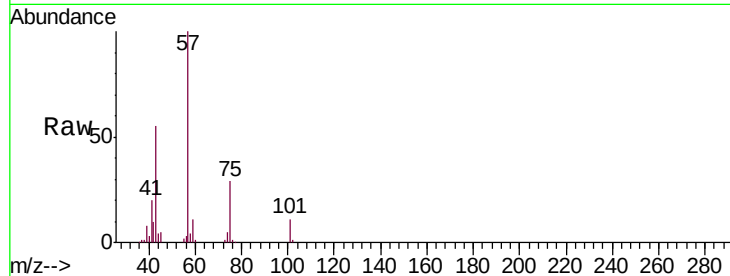


#54

cis-1,3-Dichloropropene
 Concen: 3.308 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034488.D
 Acq: 11 Sep 2019 20:38

Instrument :
 MSVOA_U
 ClientSampleId :
 T11-B2-(4)

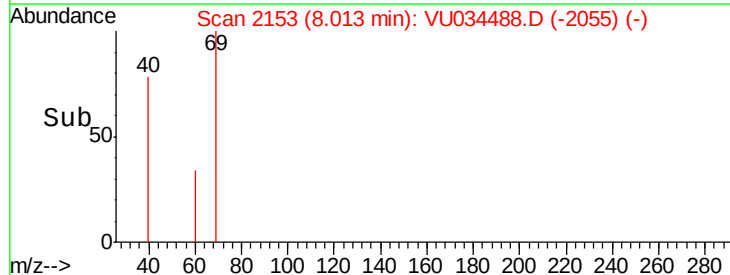
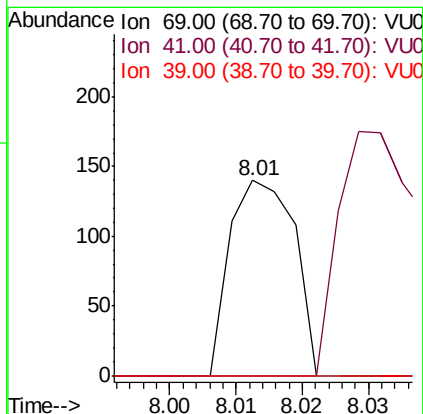
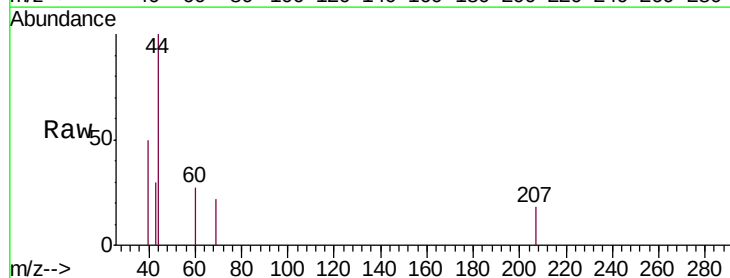
Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.0	25.1	37.7#
39	28.5	31.2	46.8#

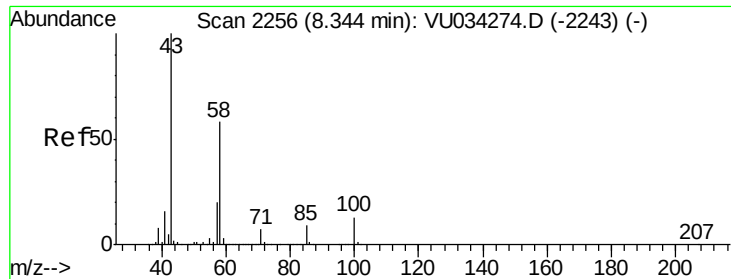


#56

Ethyl methacrylate
 Concen: 3.092 ug/l
 RT: 8.01 min Scan# 2153
 Delta R.T. 0.01 min
 Lab File: VU034488.D
 Acq: 11 Sep 2019 20:38

Tgt Ion	Ratio	Lower	Upper
69	100		
41	0.0	49.5	74.3#
39	0.0	22.5	33.7#





#59

2-Hexanone

Concen: 4.141 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034488.D

Acq: 11 Sep 2019 20:38

Instrument :

MSVOA_U

ClientSampled :

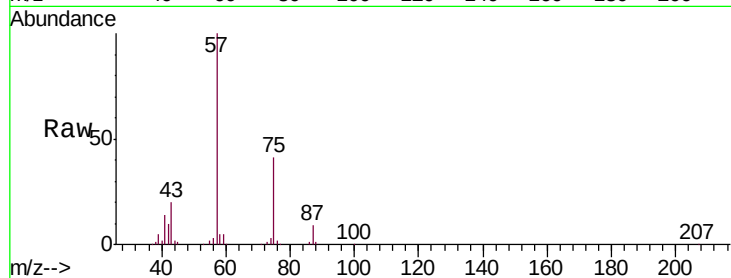
T11-B2-(4)

Tgt Ion: 43 Resp: 16417

Ion Ratio Lower Upper

43 100

58 28.1 28.8 86.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

20000

15000

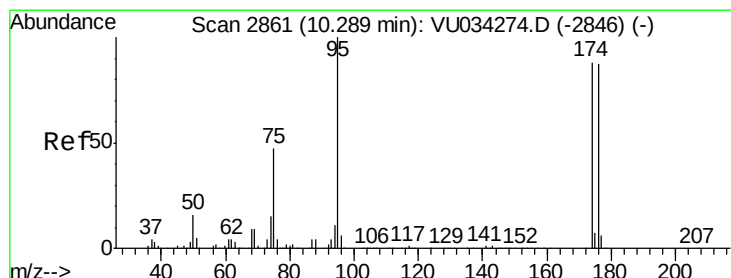
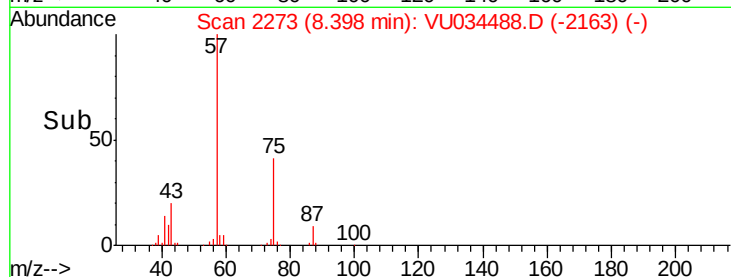
10000

5000

0

8.35 8.40 8.45

Time-->



#62

4-Bromofluorobenzene

Concen: 47.562 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034488.D

Acq: 11 Sep 2019 20:38

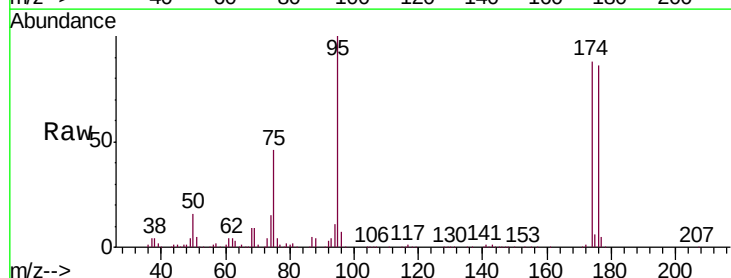
Tgt Ion: 95 Resp: 246062

Ion Ratio Lower Upper

95 100

174 90.0 0.0 175.2

176 85.1 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

150000

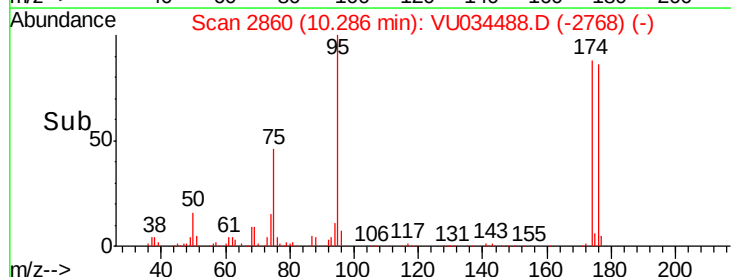
100000

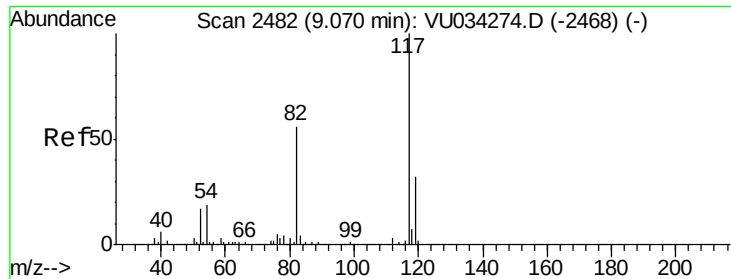
50000

0

10.20 10.30 10.40

Time-->

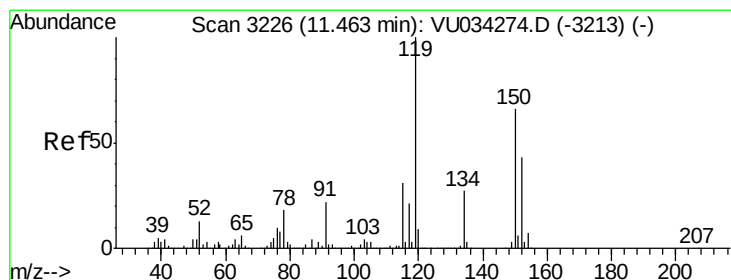
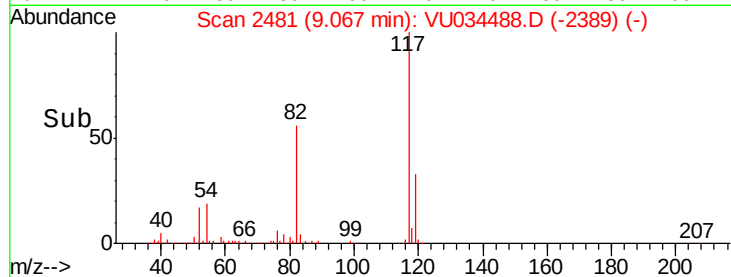
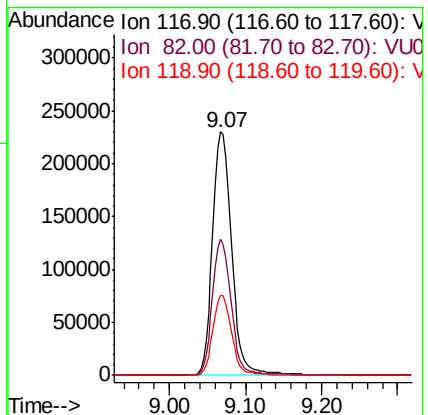
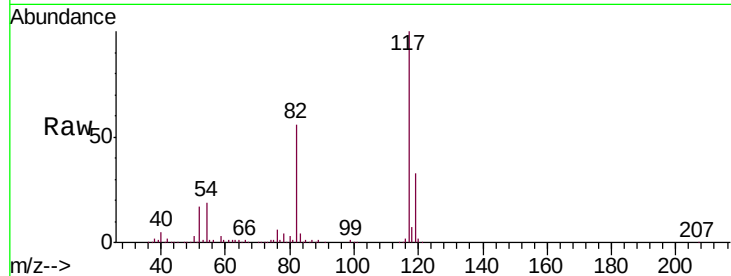




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.07 min Scan# 2481
 Delta R.T. -0.00 min
 Lab File: VU034488.D
 Acq: 11 Sep 2019 20:38

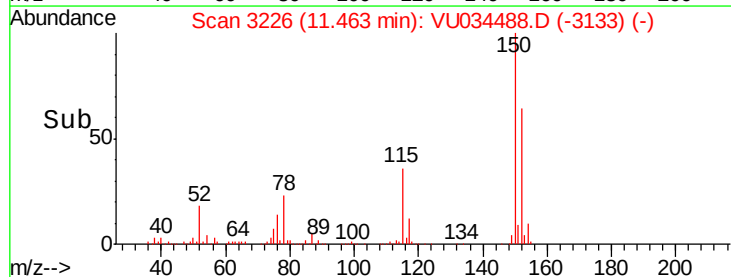
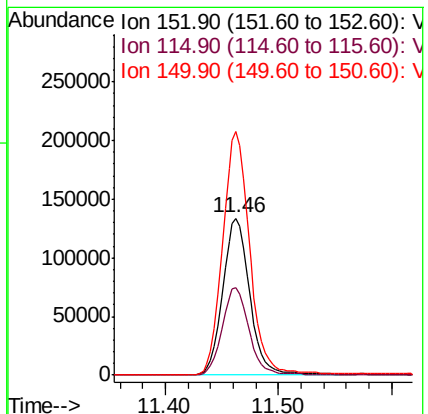
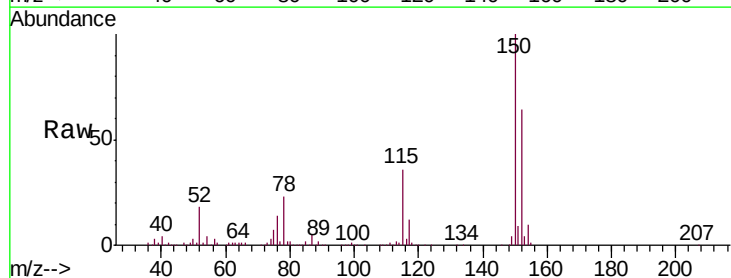
Instrument :
 MSVOA_U
 ClientSampleId :
 T11-B2-(4)

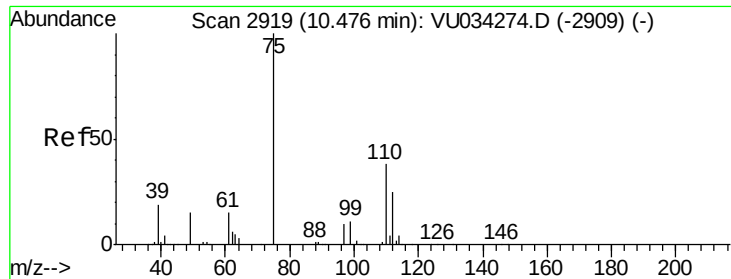
Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.7	44.6	67.0
119	33.0	25.9	38.9



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.46 min Scan# 3226
 Delta R.T. -0.00 min
 Lab File: VU034488.D
 Acq: 11 Sep 2019 20:38

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	39.1	117.3
150	155.7	0.0	345.4





#76

1,2,3-Trichloropropane

Concen: 23.755 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034488.D

Acq: 11 Sep 2019 20:38

Instrument :

MSVOA_U

ClientSampleId :

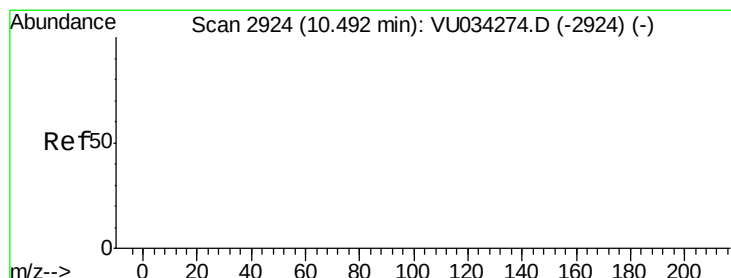
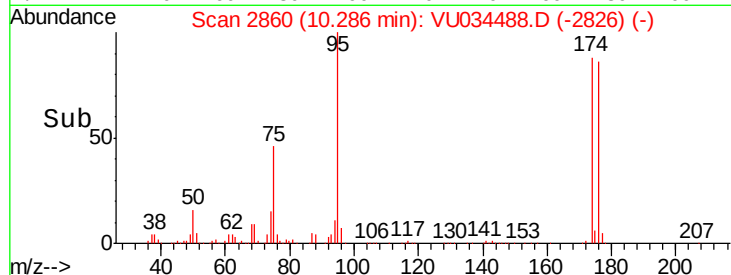
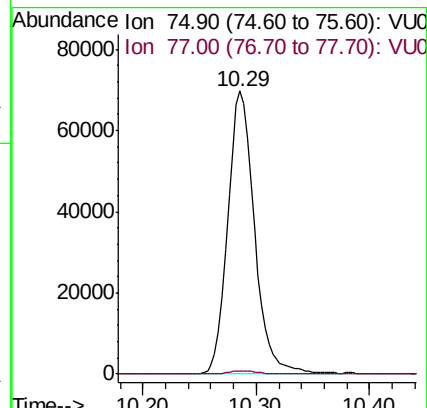
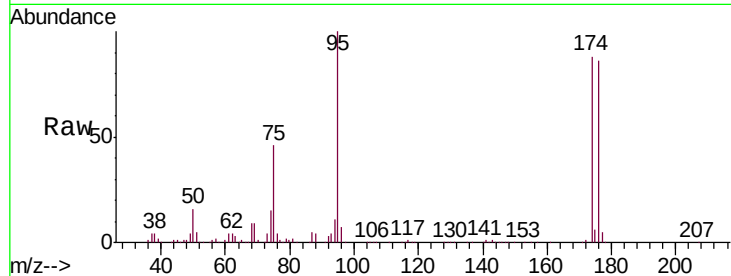
T11-B2-(4)

Tgt Ion: 75 Resp: 115243

Ion Ratio Lower Upper

75 100

77 1.3 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 79.886 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034488.D

Acq: 11 Sep 2019 20:38

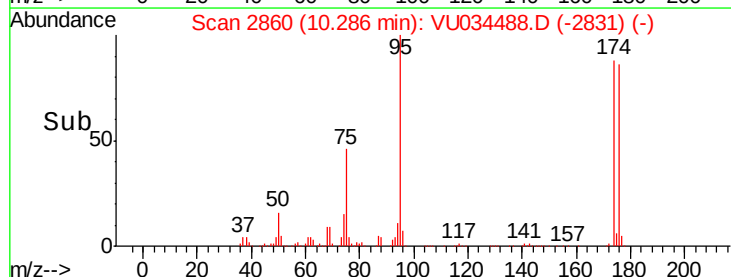
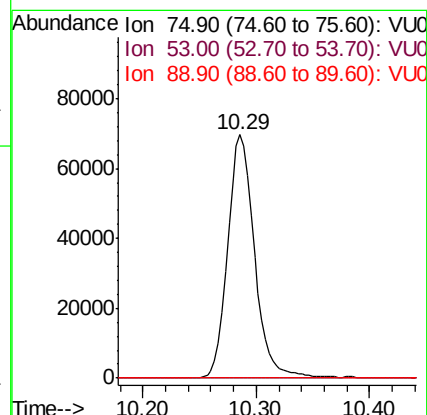
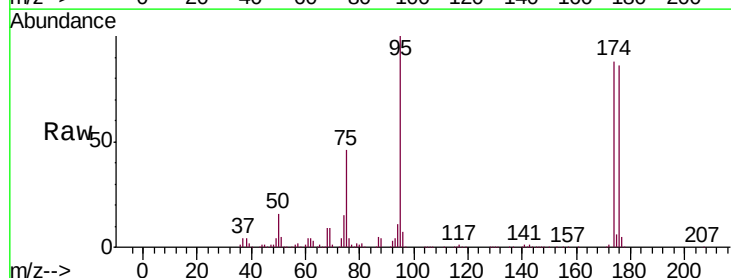
Tgt Ion: 75 Resp: 115243

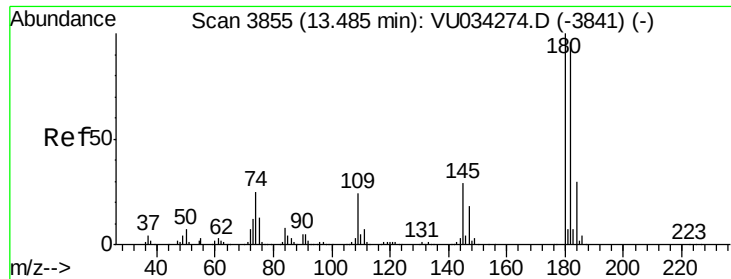
Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0

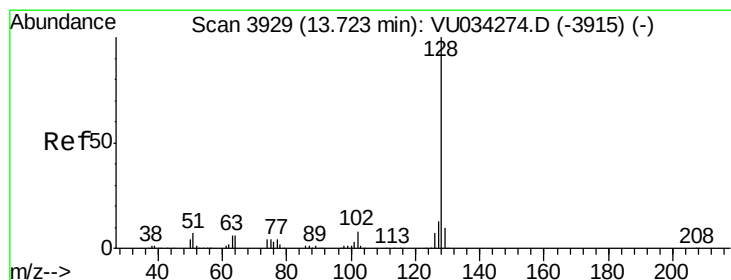
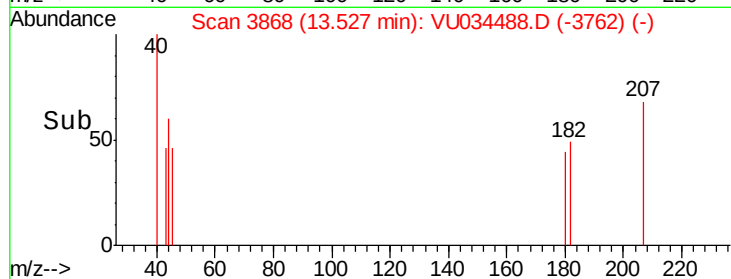
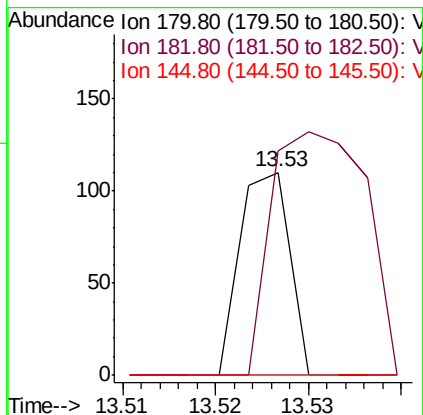
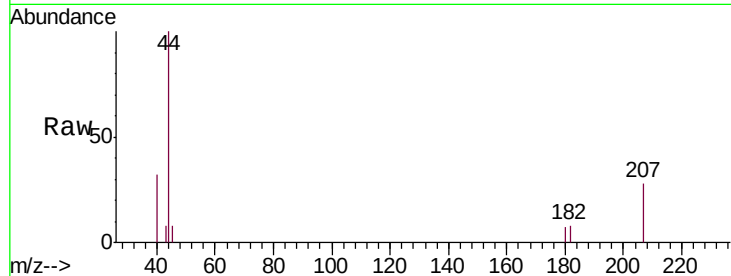




#93
 1,2,4-Trichlorobenzene
 Concen: 3.459 ug/l
 RT: 13.53 min Scan# 3868
 Delta R.T. 0.04 min
 Lab File: VU034488.D
 Acq: 11 Sep 2019 20:38

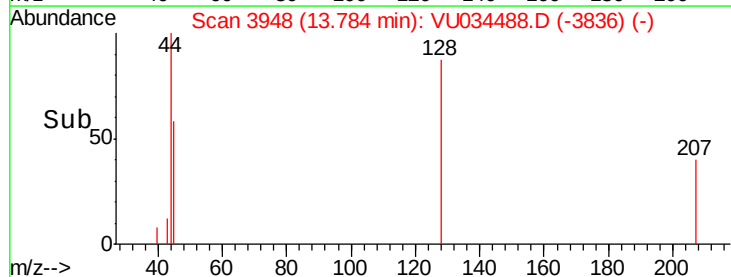
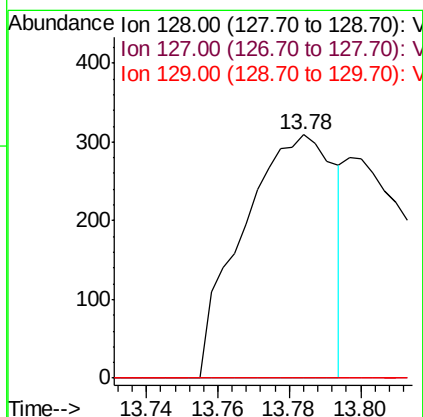
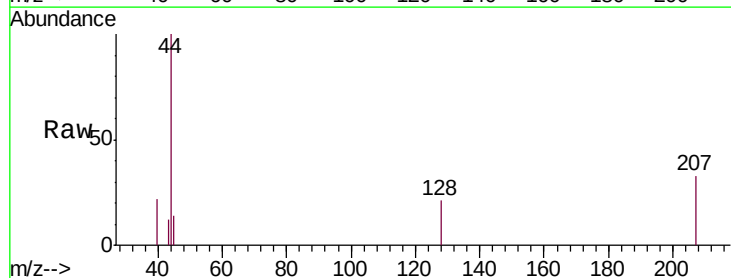
Instrument :
 MSVOA_U
 ClientSampleId :
 T11-B2-(4)

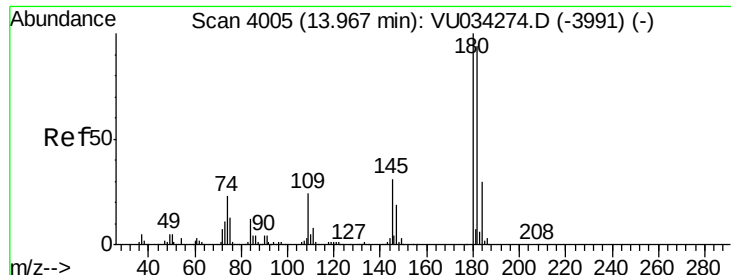
Tgt Ion:180 Resp: 41
 Ion Ratio Lower Upper
 180 100
 182 229.3 47.9 143.8#
 145 0.0 14.4 43.0#



#95
 Naphthalene
 Concen: 4.000 ug/l
 RT: 13.78 min Scan# 3948
 Delta R.T. 0.06 min
 Lab File: VU034488.D
 Acq: 11 Sep 2019 20:38

Tgt Ion:128 Resp: 549
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 15.8#
 129 0.0 8.4 12.6#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.661 ug/l
 RT: 13.99 min Scan# 4011
 Delta R.T. 0.02 min
 Lab File: VU034488.D
 Acq: 11 Sep 2019 20:38

Instrument :
 MSVOA_U
 ClientSampleId :
 T11-B2-(4)

Tgt Ion:180 Resp: 120
 Ion Ratio Lower Upper
 180 100
 182 119.2 48.4 145.0
 145 0.0 15.4 46.4#

