

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090519\
 Data File : VU034246.D
 Acq On : 04 Sep 2019 10:42
 Operator : JC/SP
 Sample : PB122767TB
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB122767TB

Quant Time: Sep 05 03:35:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	424870	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	685954	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	696463	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	331239	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	266736	49.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.00%	
35) Dibromofluoromethane	4.86	113	231682	48.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.40%	
50) Toluene-d8	7.55	98	903716	50.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.46%	
62) 4-Bromofluorobenzene	10.29	95	313969	45.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	726	Below Cal		96
5) Bromomethane	1.63	94	809	Below Cal		93
11) Tert butyl alcohol	2.83	59	5937	4.729	ug/l #	73
16) Acetone	2.31	43	10959	3.945	ug/l	92
18) Methyl Acetate	2.61	43	2677	0.373	ug/l	98
20) Methylene Chloride	2.69	84	10368	1.972	ug/l	98
31) Cyclohexane	4.96	56	7275	0.895	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	30582	4.713	ug/l #	48
38) Carbon Tetrachloride	4.96	117	37549	5.996	ug/l #	17
43) Isopropyl Acetate	5.53	43	85551	7.740	ug/l	98
48) Methyl methacrylate	6.53	41	5256	0.985	ug/l #	14
49) 1,4-Dioxane	6.64	88	55	0.412	ug/l #	22
51) 4-Methyl-2-Pentanone	7.40	43	79151	10.369	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	36739	4.449	ug/l #	63
56) Ethyl methacrylate	8.06	69	116	0.985	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6800	0.783	ug/l #	43
59) 2-Hexanone	8.40	43	90750	15.748	ug/l #	54
74) N-amyl acetate	9.93	43	2011	0.215	ug/l #	46
76) 1,2,3-Trichloropropane	10.29	75	147368	19.740	ug/l #	37
80) 1,3,5-Trimethylbenzene	10.76	105	4208	0.223	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.29	75	147368	66.468	ug/l #	100
95) Naphthalene	13.78	128	305	1.804	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.01 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

Instrument :

MSVOA_U

ClientSampleId :

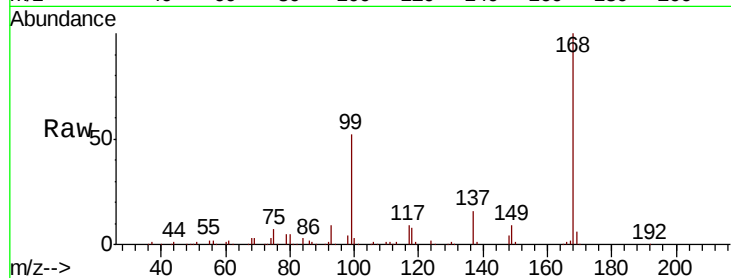
PB122767TB

Tgt Ion:168 Resp: 424870

Ion Ratio Lower Upper

168 100

99 52.2 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

150000

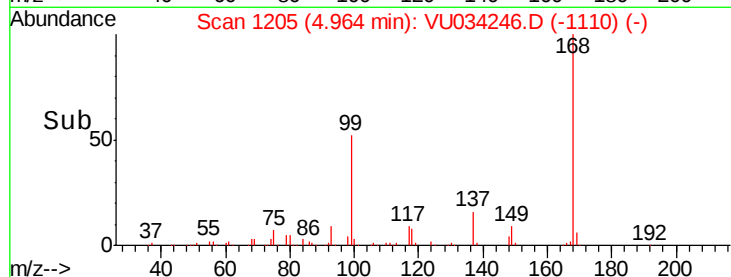
100000

50000

0

4.90 5.00

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034246.D

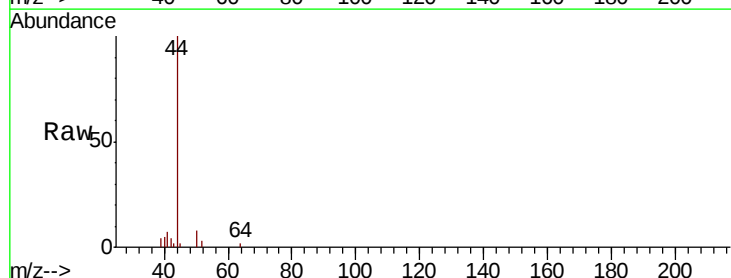
Acq: 04 Sep 2019 10:42

Tgt Ion: 50 Resp: 726

Ion Ratio Lower Upper

50 100

52 35.3 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034246.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU034246.D (-1) (-)

1.33

600

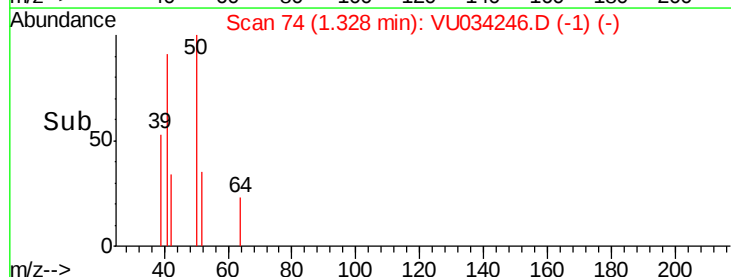
400

200

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.04 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

Instrument :

MSVOA_U

ClientSampleId :

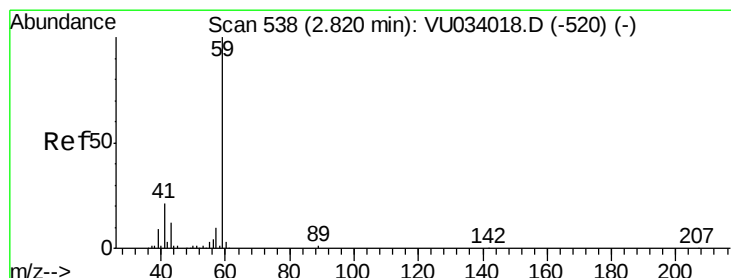
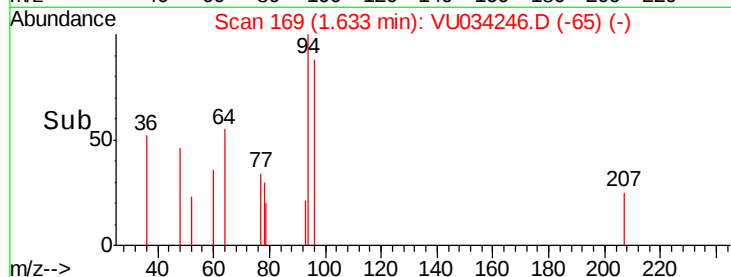
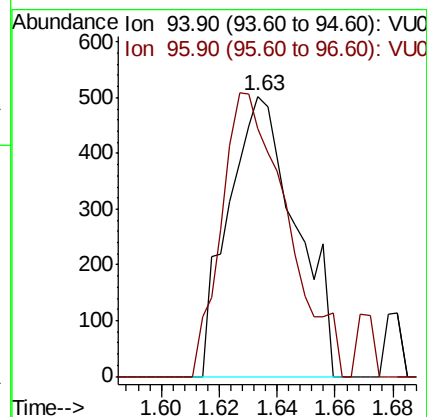
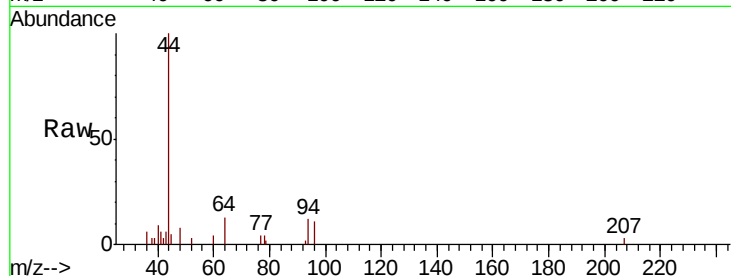
PB122767TB

Tgt Ion: 94 Resp: 809

Ion Ratio Lower Upper

94 100

96 88.5 76.3 114.5



#11

Tert butyl alcohol

Concen: 4.729 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034246.D

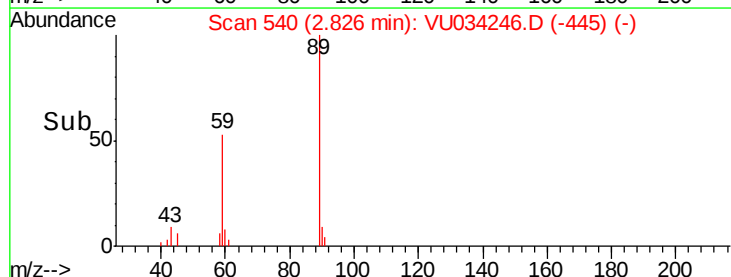
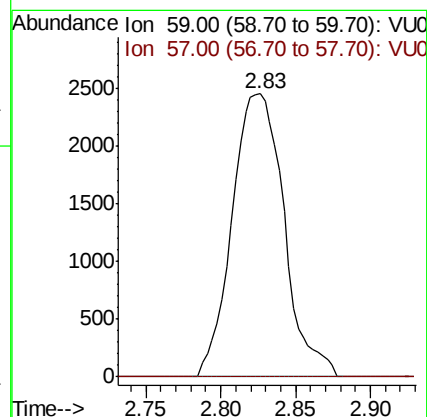
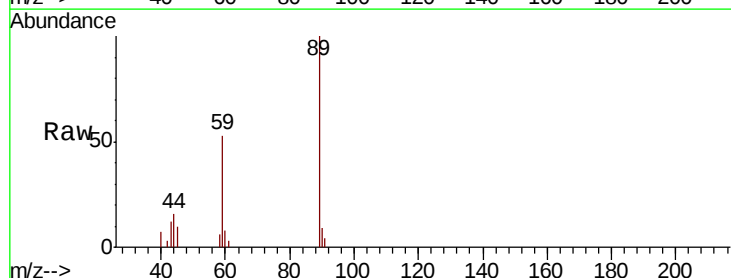
Acq: 04 Sep 2019 10:42

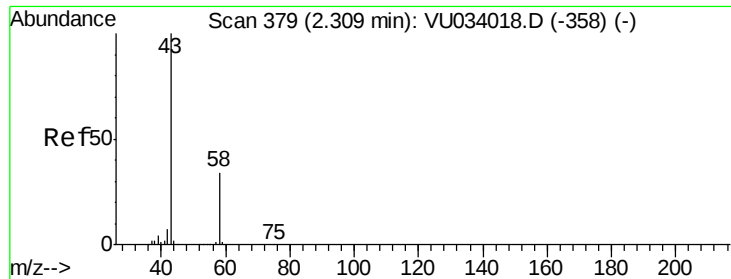
Tgt Ion: 59 Resp: 5937

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#





#16

Acetone

Concen: 3.945 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

Instrument :

MSVOA_U

ClientSampleId :

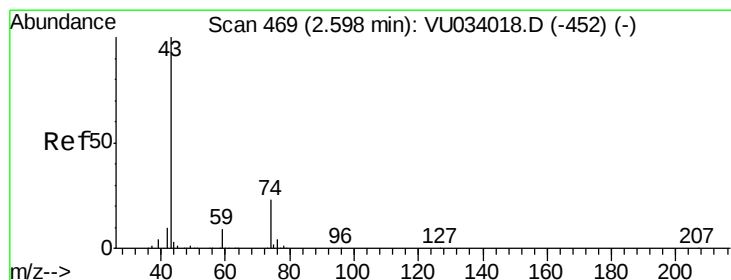
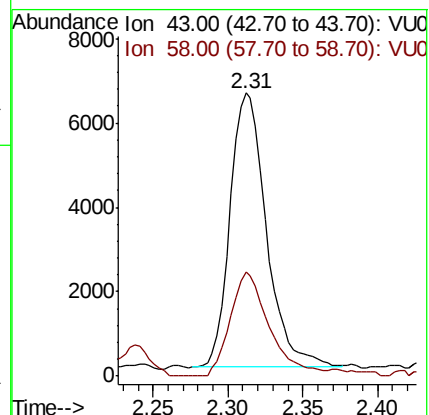
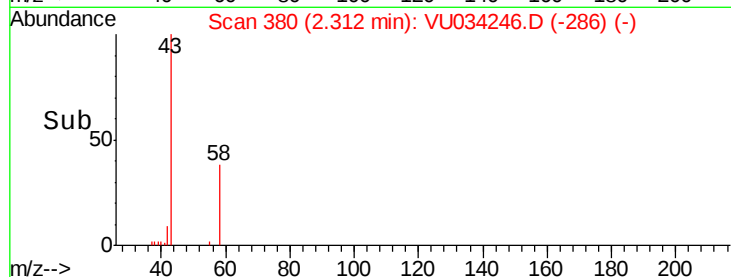
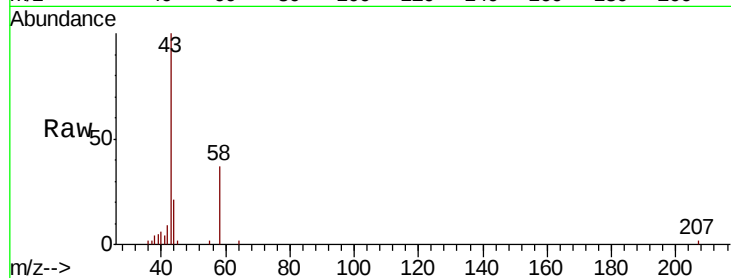
PB122767TB

Tgt Ion: 43 Resp: 10959

Ion Ratio Lower Upper

43 100

58 38.1 26.8 40.2



#18

Methyl Acetate

Concen: 0.373 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034246.D

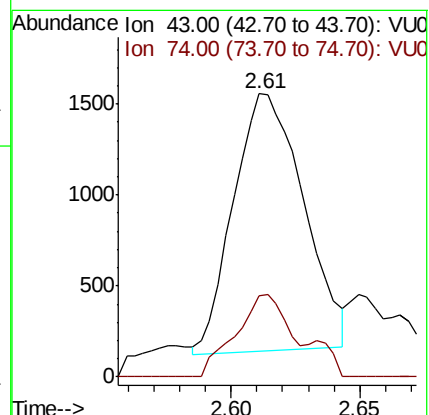
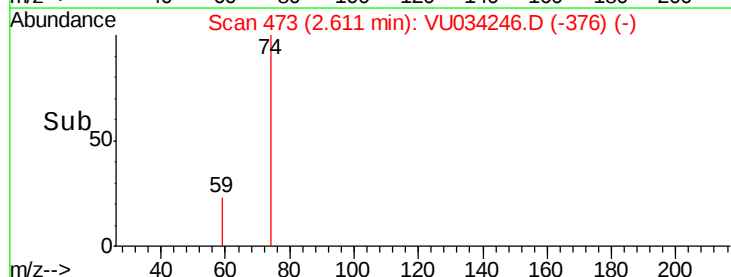
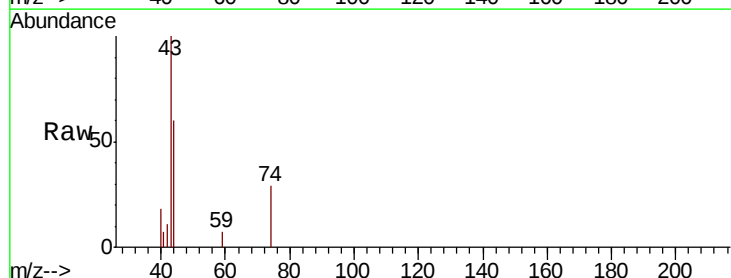
Acq: 04 Sep 2019 10:42

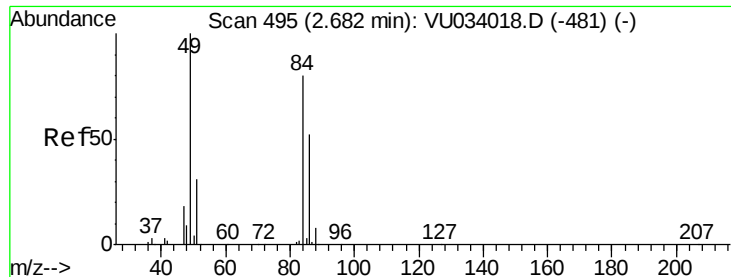
Tgt Ion: 43 Resp: 2677

Ion Ratio Lower Upper

43 100

74 25.0 19.2 28.8





#20

Methylene Chloride

Concen: 1.972 ug/l

RT: 2.69 min Scan# 497

Delta R.T. 0.01 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

Instrument :

MSVOA_U

ClientSampleId :

PB122767TB

Tgt Ion: 84 Resp: 10368

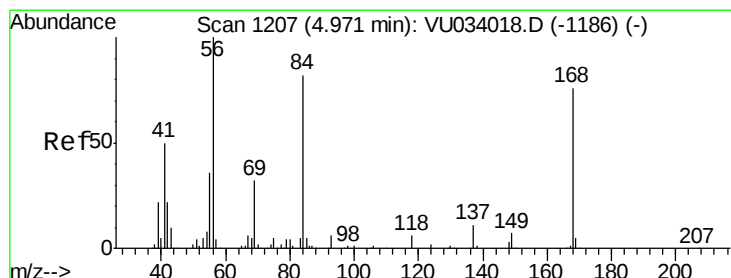
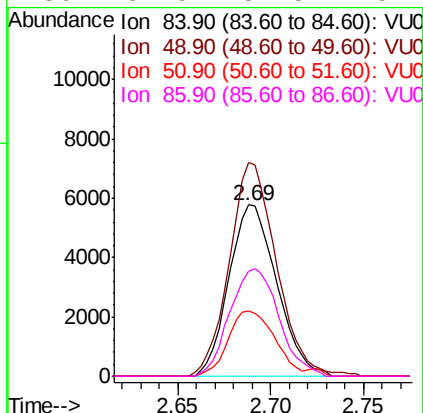
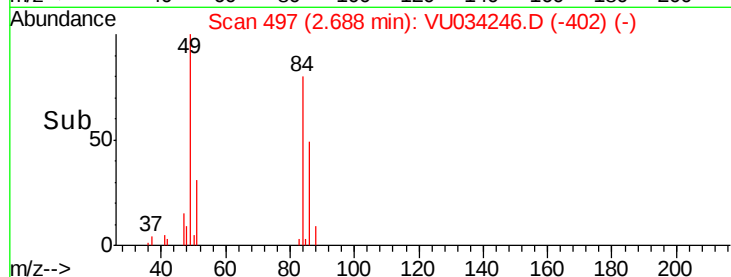
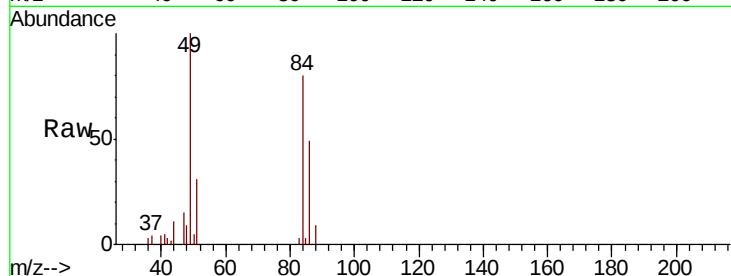
Ion Ratio Lower Upper

84 100

49 124.9 100.2 150.4

51 38.3 30.8 46.2

86 61.5 52.5 78.7



#31

Cyclohexane

Concen: 0.895 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

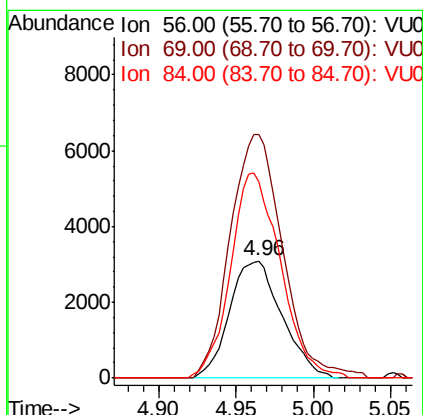
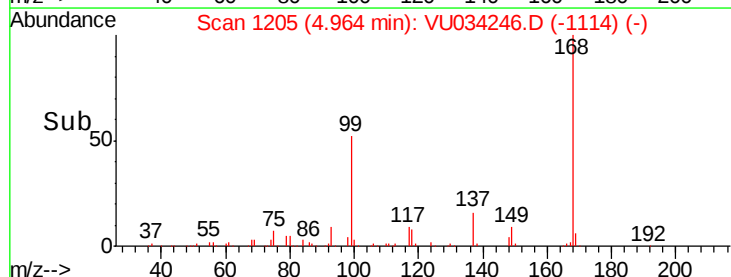
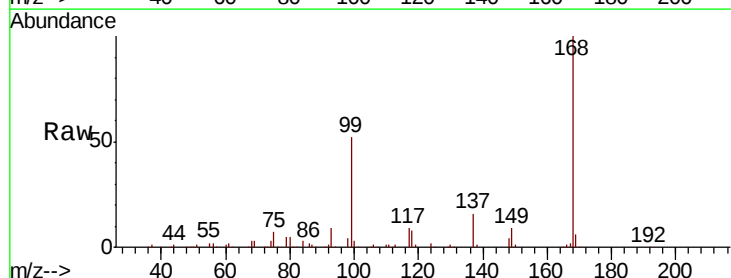
Tgt Ion: 56 Resp: 7275

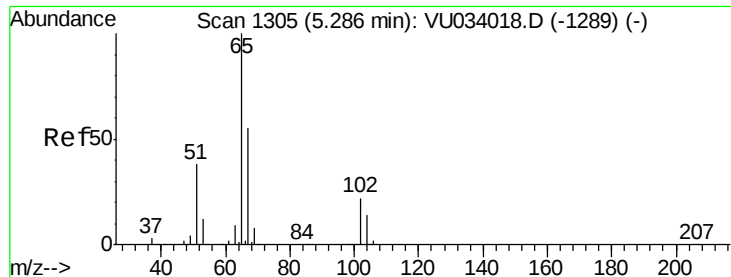
Ion Ratio Lower Upper

56 100

69 207.6 25.4 38.0#

84 167.2 65.8 98.8#

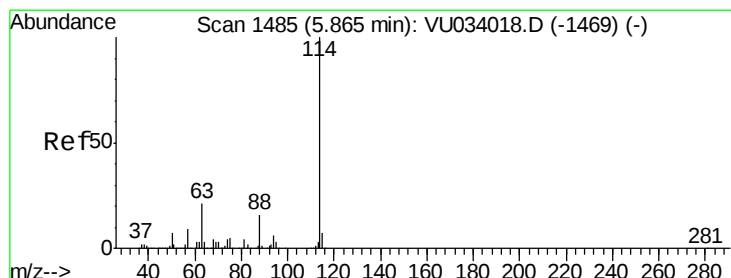
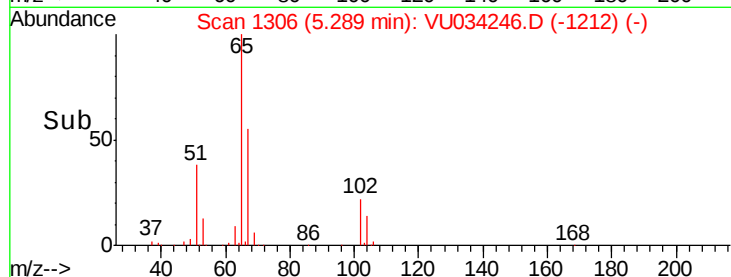
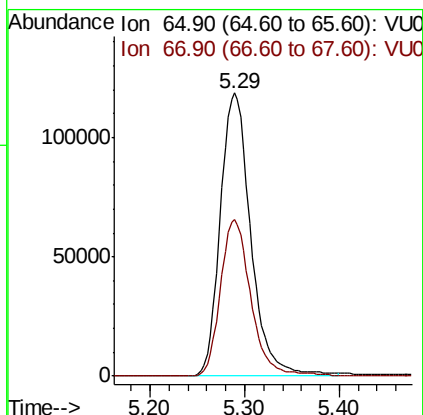
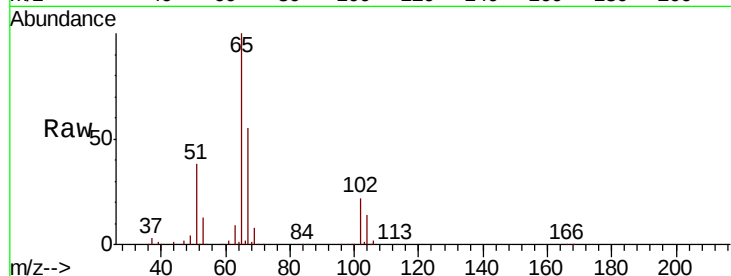




#33
 1,2-Dichloroethane-d4
 Concen: 48.996 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034246.D
 Acq: 04 Sep 2019 10:42

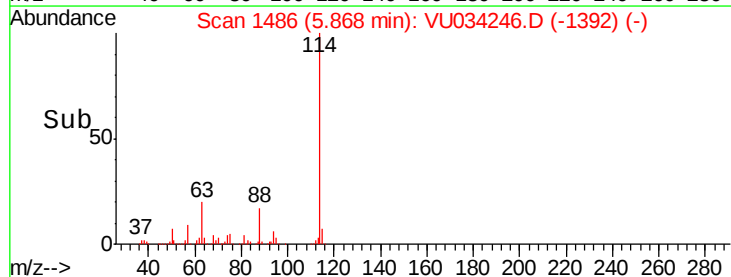
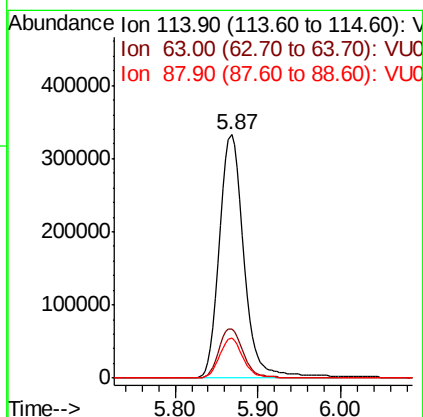
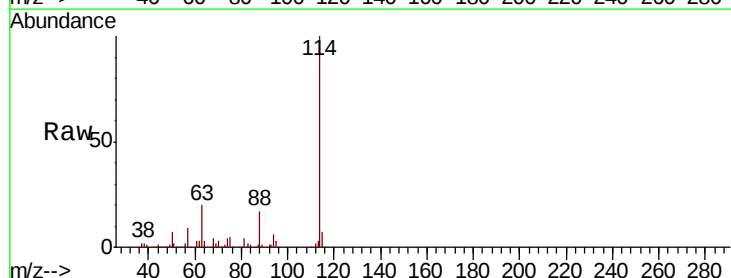
Instrument :
 MSVOA_U
 ClientSampleId :
 PB122767TB

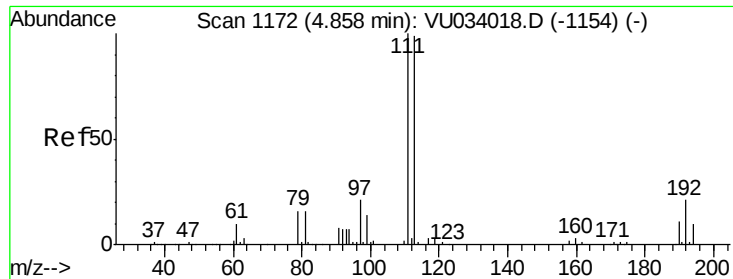
Tgt Ion: 65 Resp: 266736
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034246.D
 Acq: 04 Sep 2019 10:42

Tgt Ion: 114 Resp: 685954
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 42.0
 88 16.5 0.0 32.0





#35

Dibromofluoromethane

Concen: 48.696 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

Instrument :

MSVOA_U

ClientSampleId :

PB122767TB

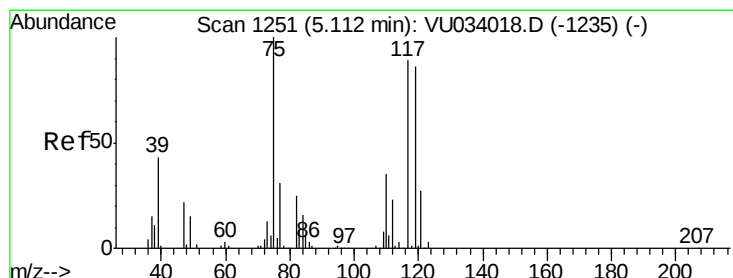
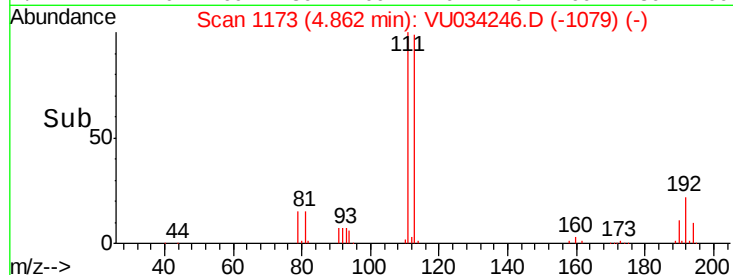
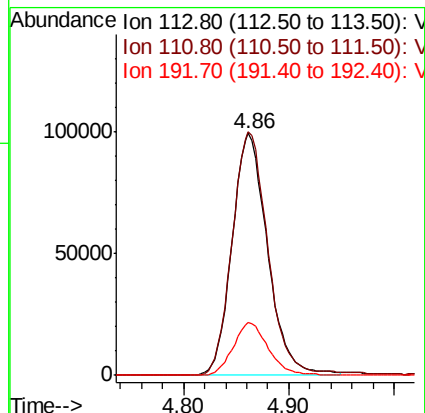
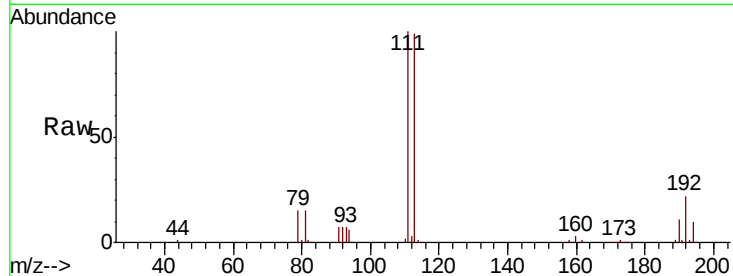
Tgt Ion:113 Resp: 231682

Ion Ratio Lower Upper

113 100

111 101.5 81.7 122.5

192 21.7 17.1 25.7



#36

1,1-Dichloropropene

Concen: 4.713 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

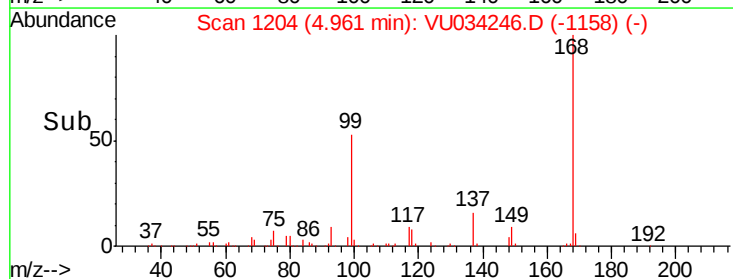
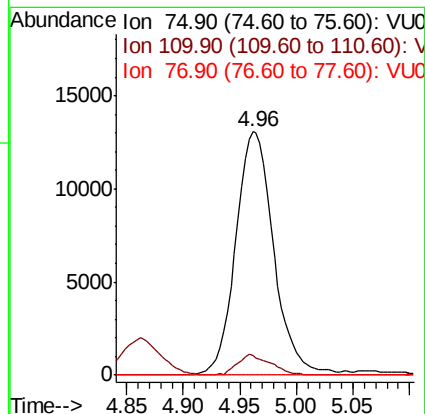
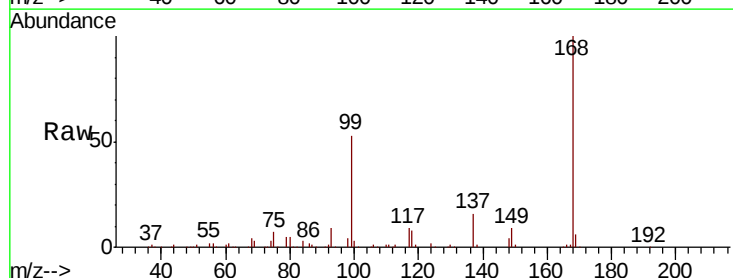
Tgt Ion: 75 Resp: 30582

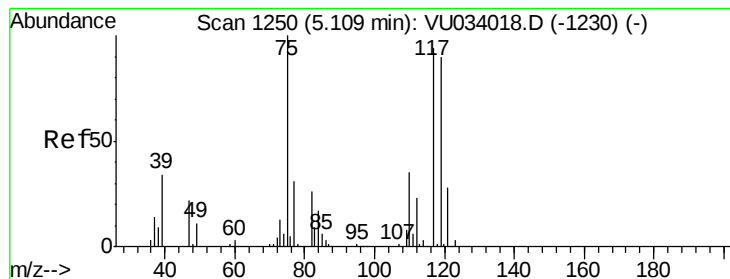
Ion Ratio Lower Upper

75 100

110 7.4 17.8 53.5#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.996 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

Instrument :

MSVOA_U

ClientSampleId :

PB122767TB

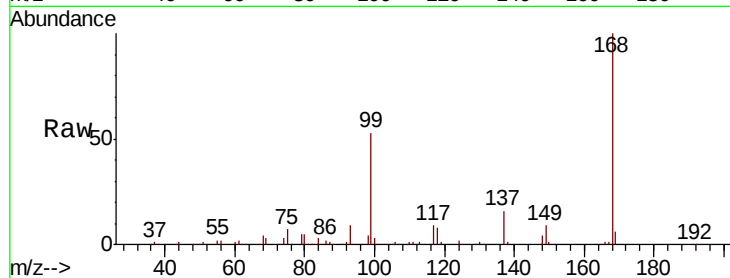
Tgt Ion:117 Resp: 37549

Ion Ratio Lower Upper

117 100

119 6.7 77.0 115.4#

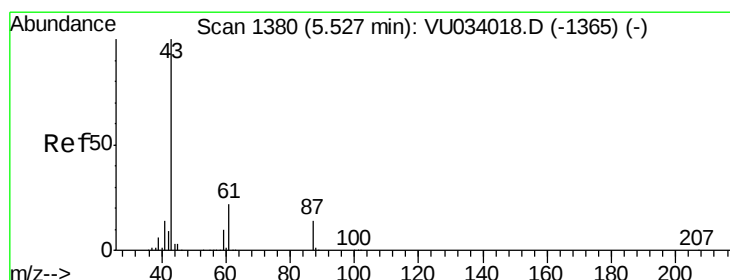
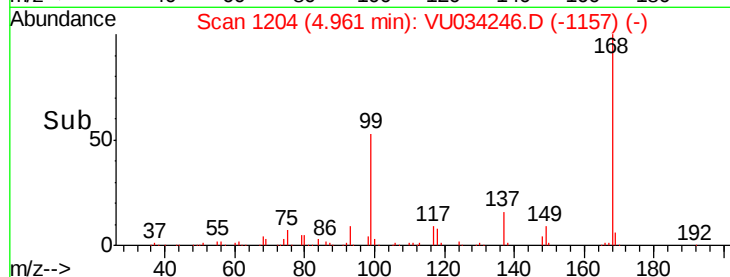
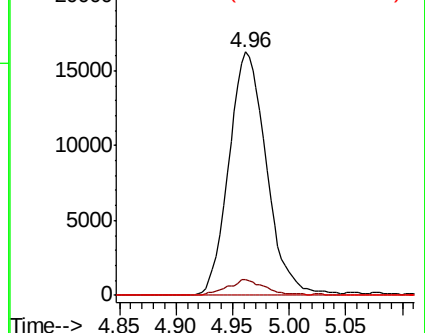
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 7.740 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

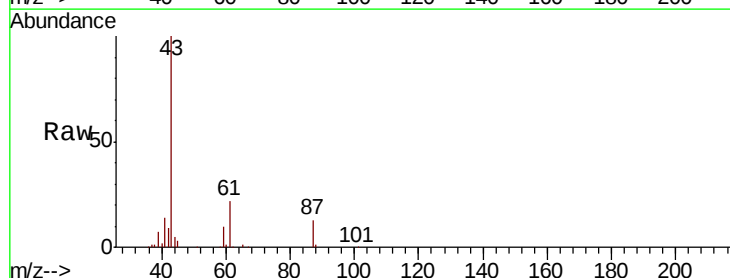
Tgt Ion: 43 Resp: 85551

Ion Ratio Lower Upper

43 100

61 20.4 17.2 25.8

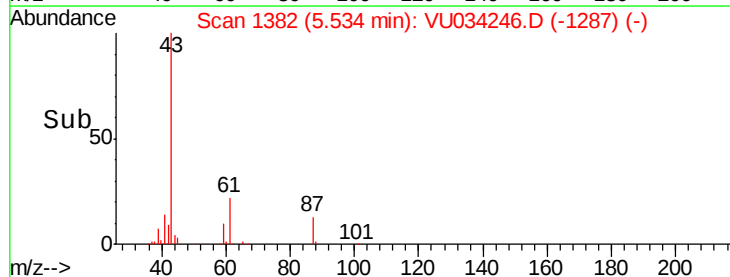
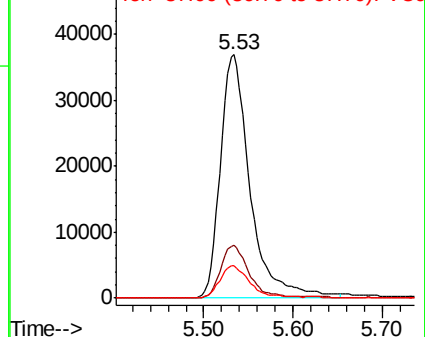
87 13.4 10.8 16.2

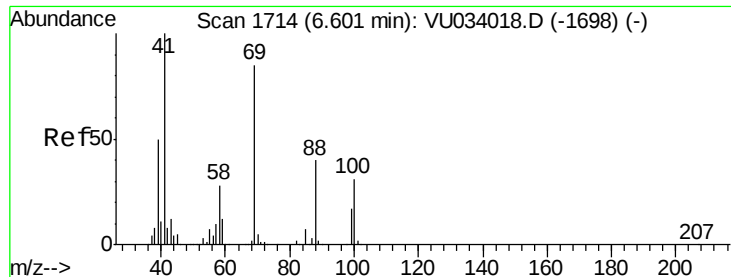


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

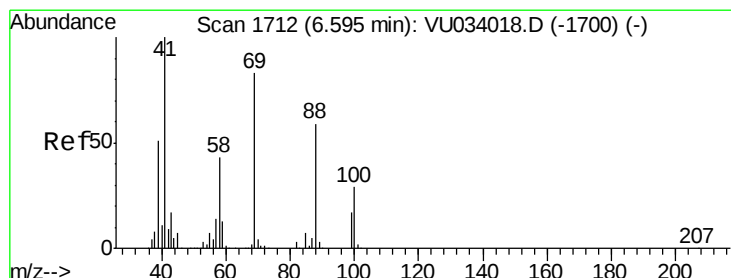
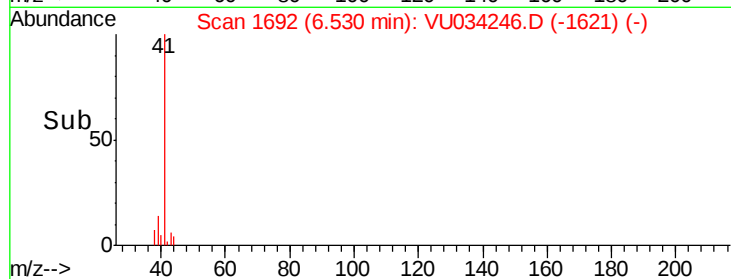
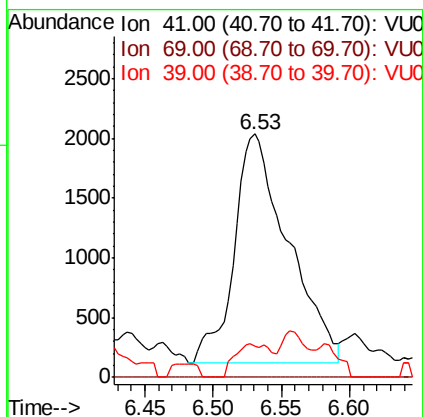
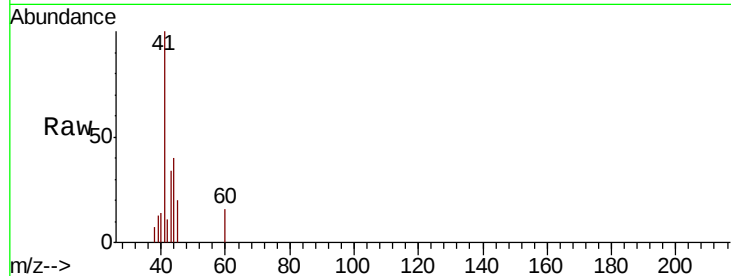




#48
Methyl methacrylate
Concen: 0.985 ug/l
RT: 6.53 min Scan# 1692
Delta R.T. -0.07 min
Lab File: VU034246.D
Acq: 04 Sep 2019 10:42

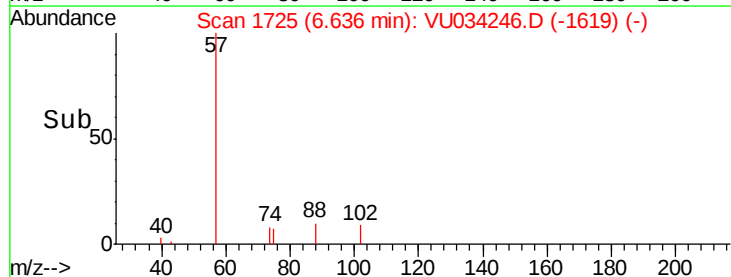
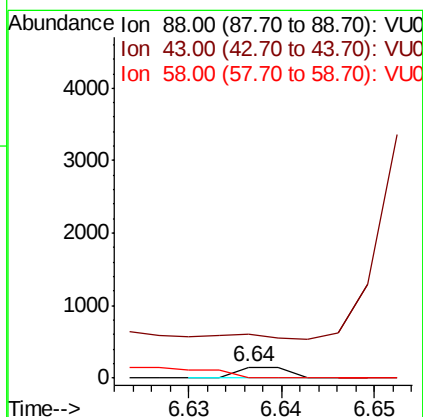
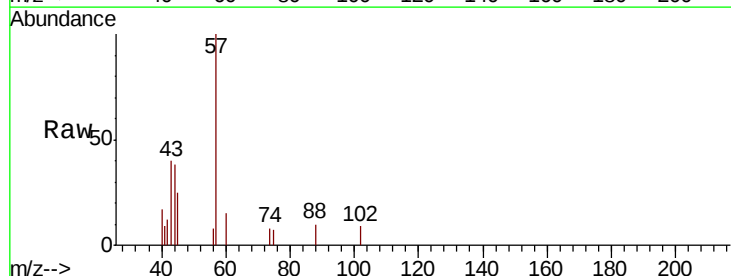
Instrument :
MSVOA_U
ClientSampleId :
PB122767TB

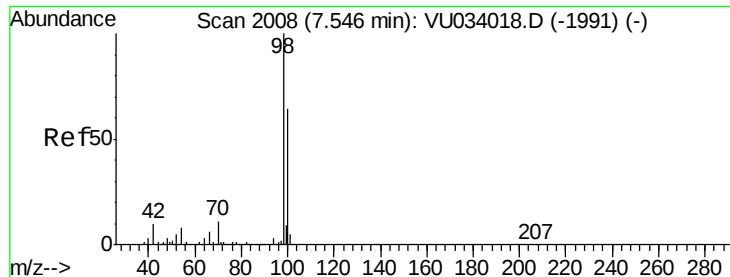
Tgt Ion: 41 Resp: 5256
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 0.412 ug/l
RT: 6.64 min Scan# 1725
Delta R.T. 0.04 min
Lab File: VU034246.D
Acq: 04 Sep 2019 10:42

Tgt Ion: 88 Resp: 55
Ion Ratio Lower Upper
88 100
43 0.0 24.8 37.2#
58 0.0 59.3 88.9#





#50

Toluene-d8

Concen: 50.729 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

Instrument :

MSVOA_U

ClientSampleId :

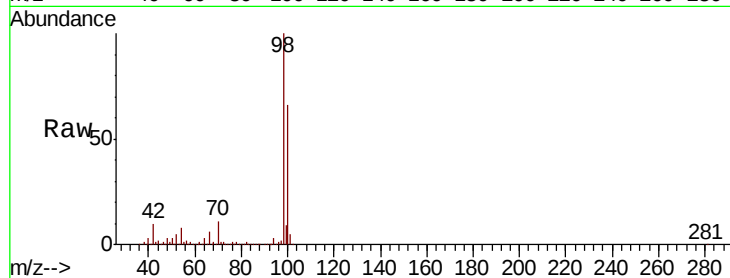
PB122767TB

Tgt Ion: 98 Resp: 903716

Ion Ratio Lower Upper

98 100

100 64.1 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU034018.D (-1991) (-)

Ion 100.00 (99.70 to 100.70): VU034018.D (-1991) (-)

7.55

500000

400000

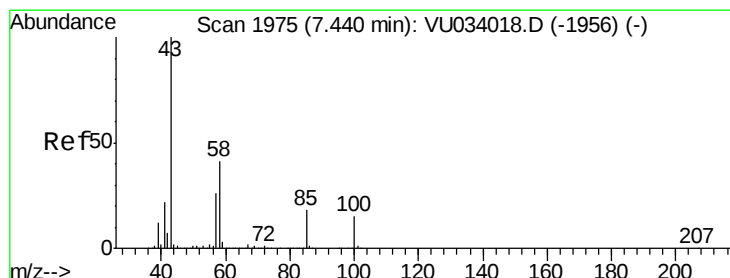
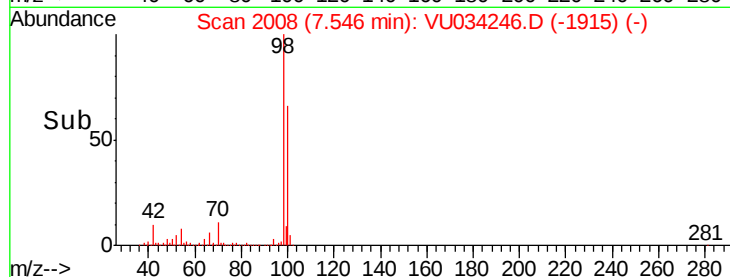
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 10.369 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034246.D

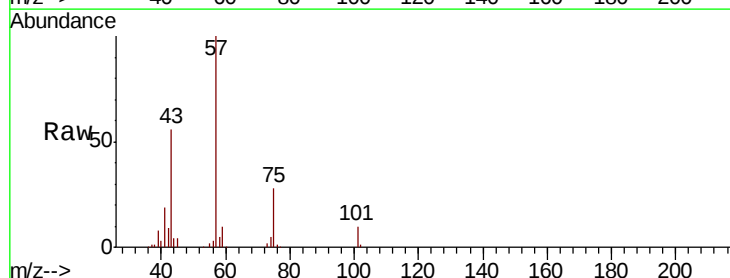
Acq: 04 Sep 2019 10:42

Tgt Ion: 43 Resp: 79151

Ion Ratio Lower Upper

43 100

58 6.9 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-1956) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-1956) (-)

7.40

50000

40000

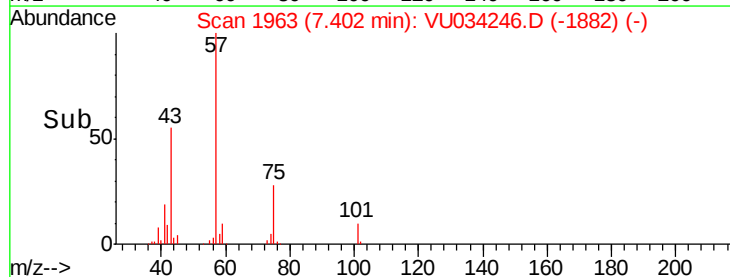
30000

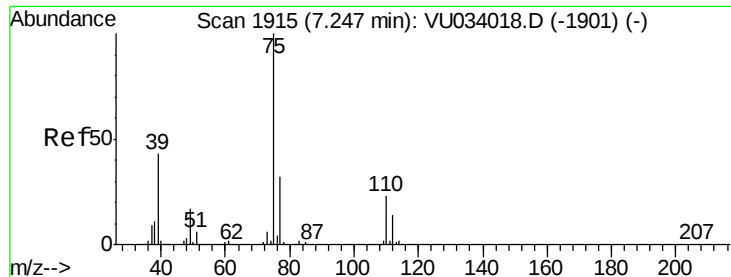
20000

10000

0

Time-->



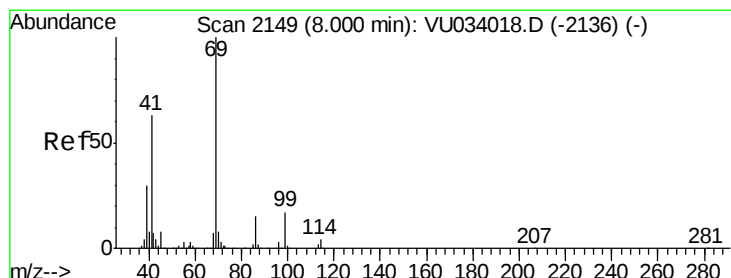
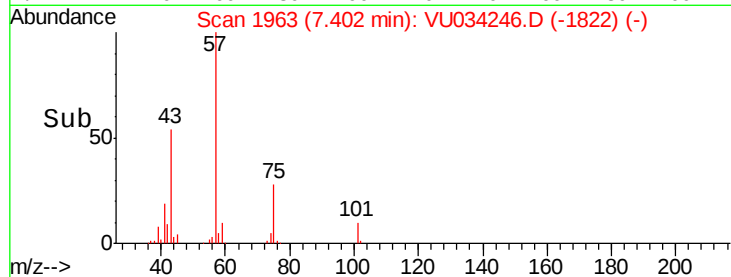
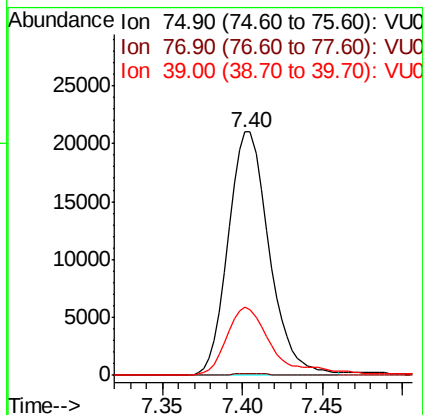
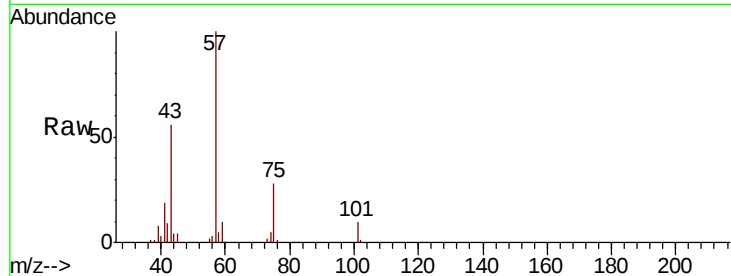


#54

cis-1,3-Dichloropropene
 Concen: 4.449 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034246.D
 Acq: 04 Sep 2019 10:42

Instrument :
 MSVOA_U
 ClientSampleId :
 PB122767TB

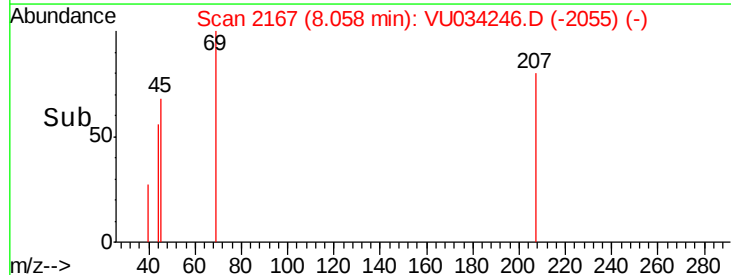
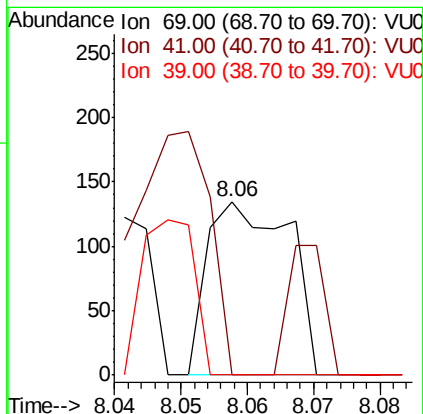
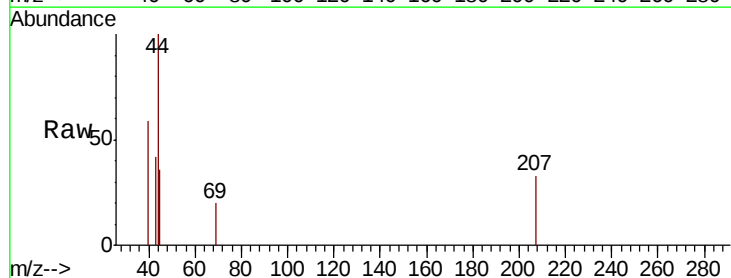
Tgt Ion: 75 Resp: 36739
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.2 37.8#
 39 27.9 34.6 51.8#

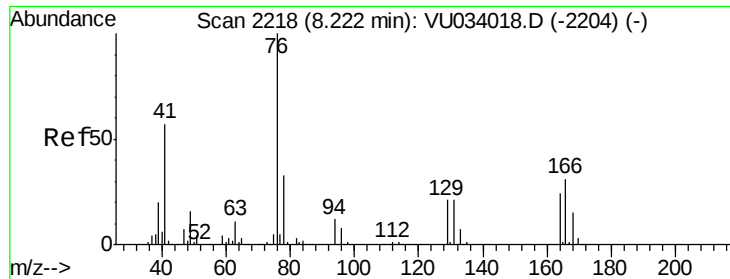


#56

Ethyl methacrylate
 Concen: 0.985 ug/l
 RT: 8.06 min Scan# 2167
 Delta R.T. 0.06 min
 Lab File: VU034246.D
 Acq: 04 Sep 2019 10:42

Tgt Ion: 69 Resp: 116
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#





#57

1,3-Dichloropropane

Concen: 0.783 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

Instrument :

MSVOA_U

ClientSampleId :

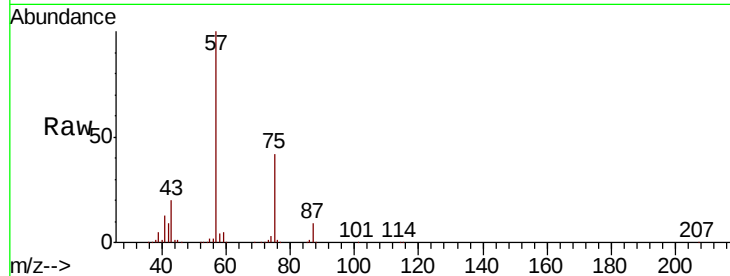
PB122767TB

Tgt Ion: 76 Resp: 6800

Ion Ratio Lower Upper

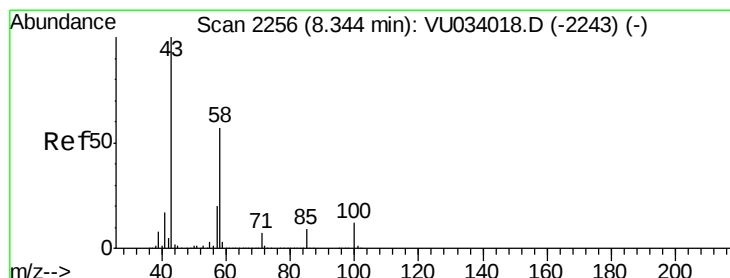
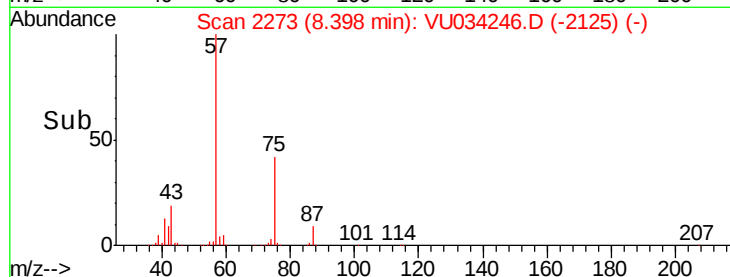
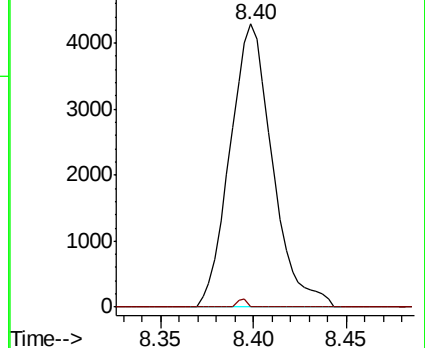
76 100

78 0.6 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU034018.D (-2204) (-)

Ion 77.90 (77.60 to 78.60): VU034018.D (-2204) (-)



#59

2-Hexanone

Concen: 15.748 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034246.D

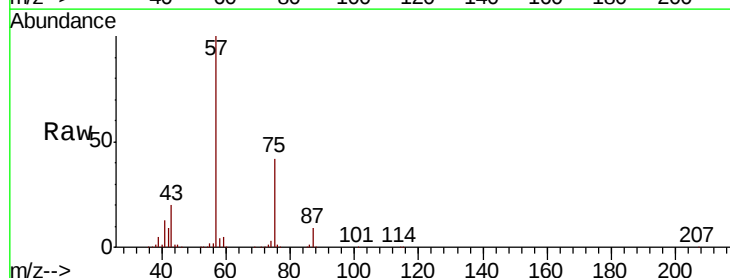
Acq: 04 Sep 2019 10:42

Tgt Ion: 43 Resp: 90750

Ion Ratio Lower Upper

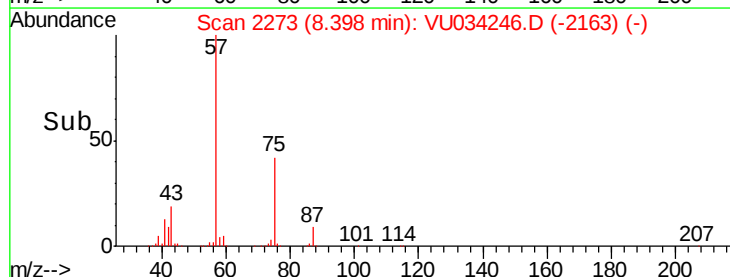
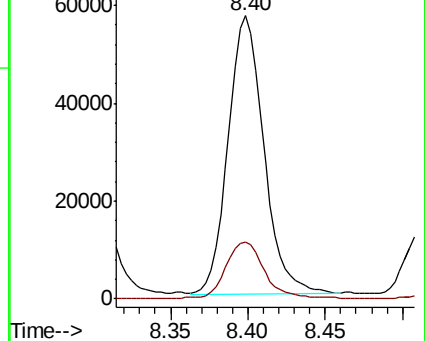
43 100

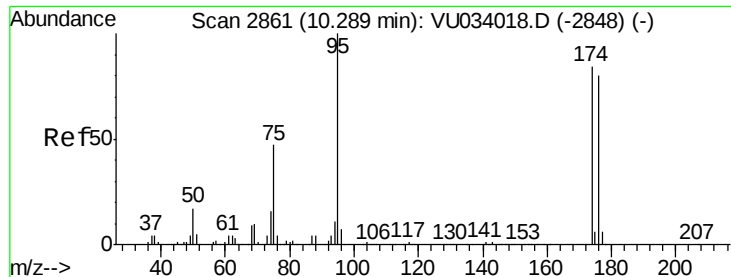
58 23.0 28.4 85.3#



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-2243) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-2243) (-)

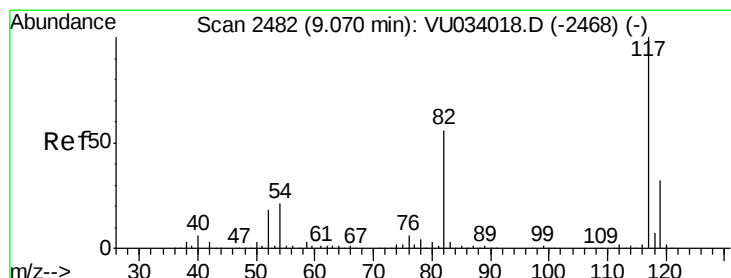
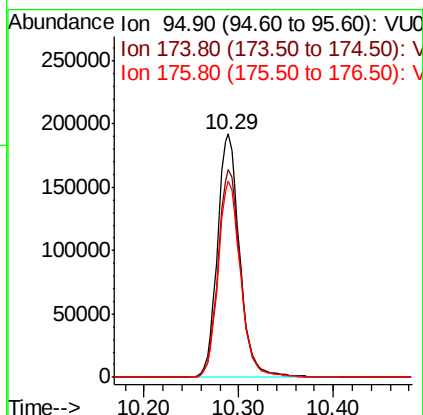
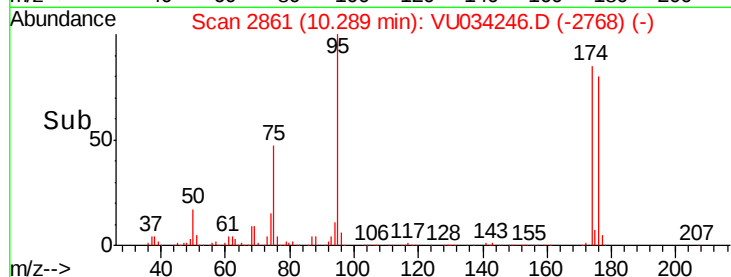
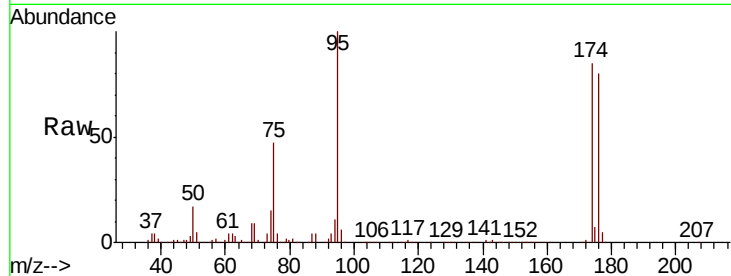




#62
4-Bromofluorobenzene
Concen: 45.308 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034246.D
Acq: 04 Sep 2019 10:42

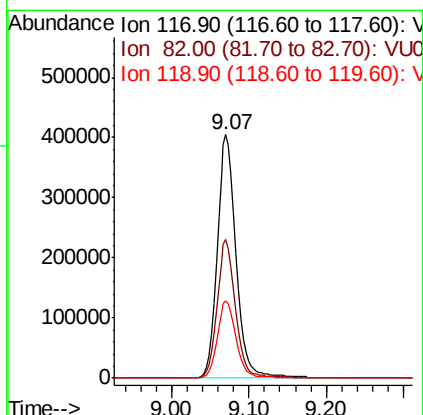
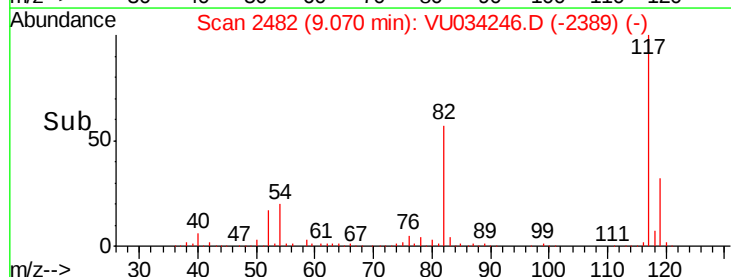
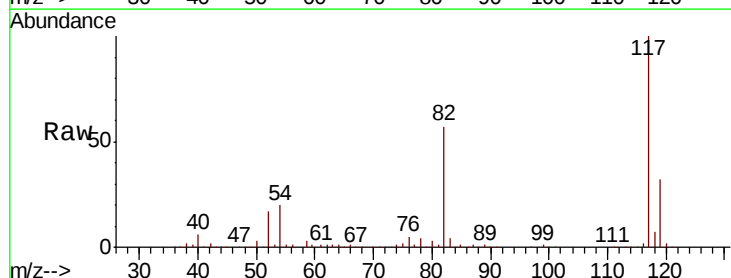
Instrument :
MSVOA_U
ClientSampleId :
PB122767TB

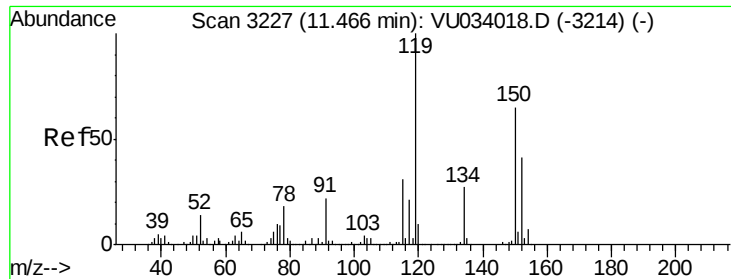
Tgt Ion: 95 Resp: 313969
Ion Ratio Lower Upper
95 100
174 86.3 0.0 168.8
176 81.4 0.0 161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034246.D
Acq: 04 Sep 2019 10:42

Tgt Ion: 117 Resp: 696463
Ion Ratio Lower Upper
117 100
82 56.8 45.1 67.7
119 31.8 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

Instrument :

MSVOA_U

ClientSampleId :

PB122767TB

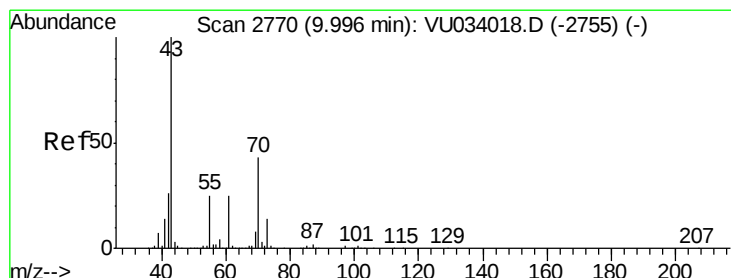
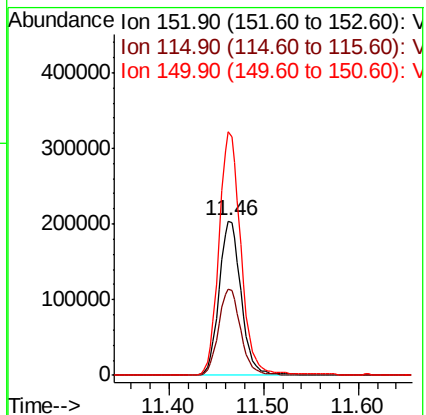
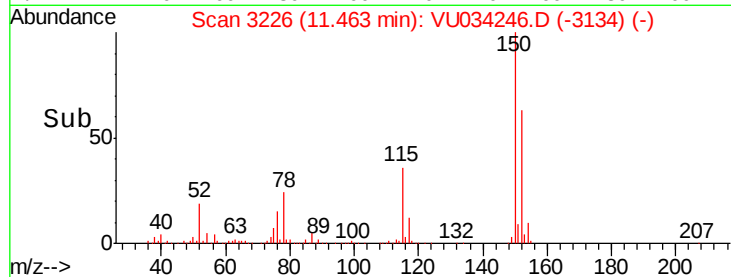
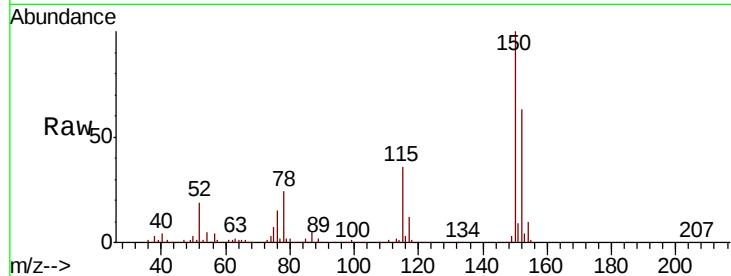
Tgt Ion:152 Resp: 331239

Ion Ratio Lower Upper

152 100

115 56.8 41.1 123.3

150 156.2 0.0 348.8



#74

N-ethyl acetate

Concen: 0.215 ug/l

RT: 9.93 min Scan# 2749

Delta R.T. -0.07 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

Tgt Ion: 43 Resp: 2011

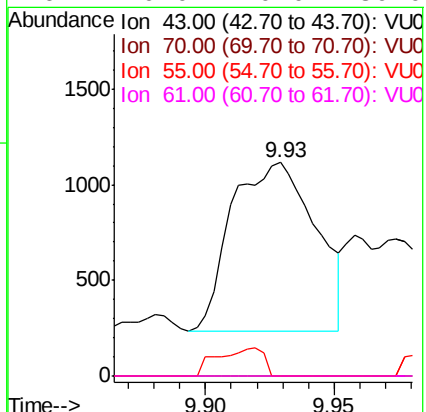
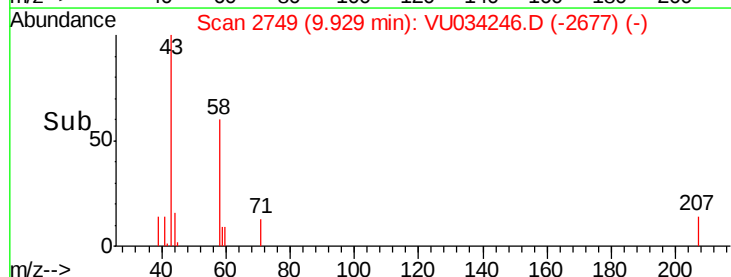
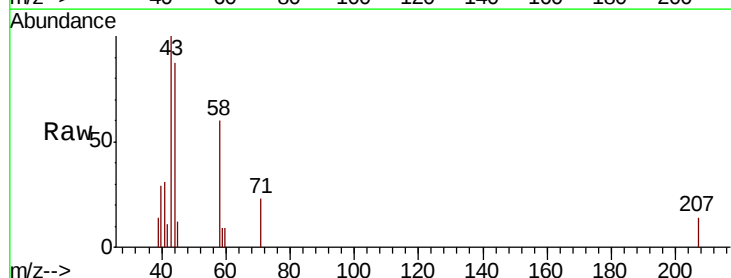
Ion Ratio Lower Upper

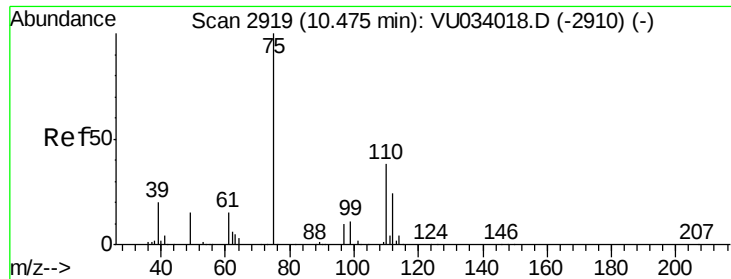
43 100

70 0.0 35.2 52.8#

55 9.1 20.5 30.7#

61 0.0 20.0 30.0#





#76

1,2,3-Trichloropropane

Concen: 19.740 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

Instrument :

MSVOA_U

ClientSampleId :

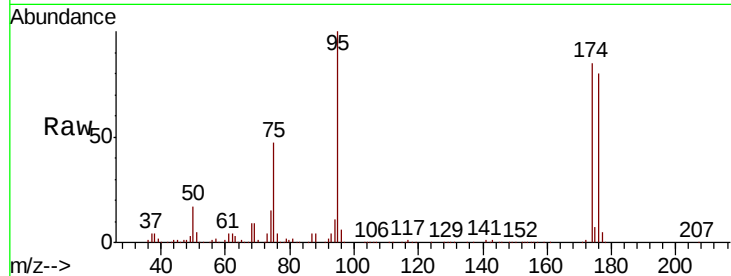
PB122767TB

Tgt Ion: 75 Resp: 147368

Ion Ratio Lower Upper

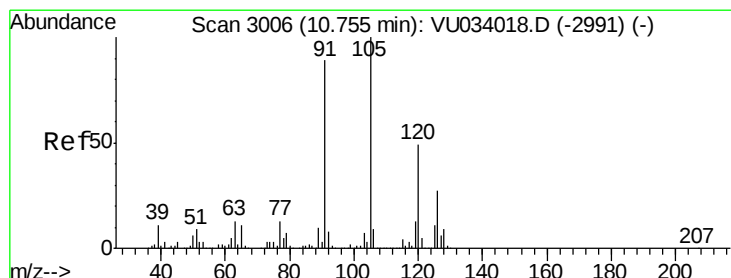
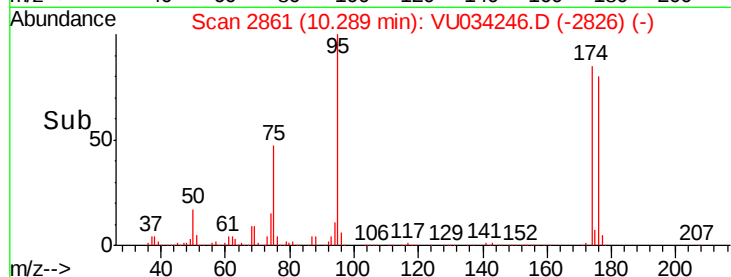
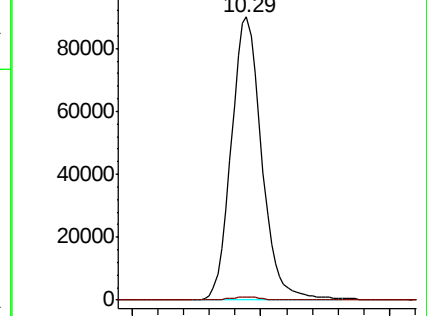
75 100

77 1.2 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU034018.D (-2910) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.223 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. 0.00 min

Lab File: VU034246.D

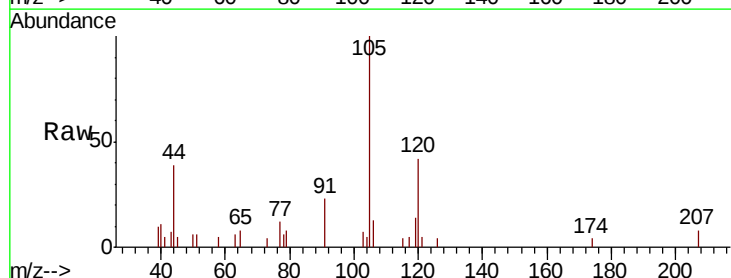
Acq: 04 Sep 2019 10:42

Tgt Ion: 105 Resp: 4208

Ion Ratio Lower Upper

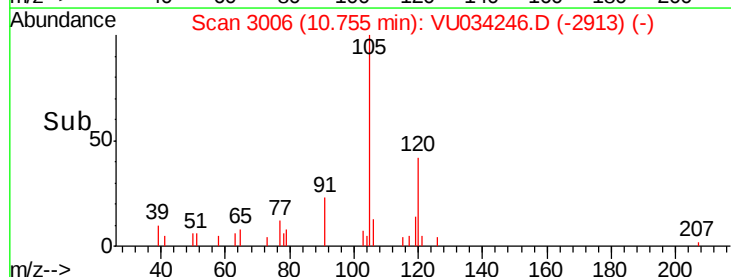
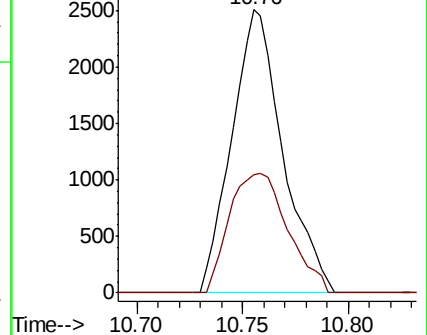
105 100

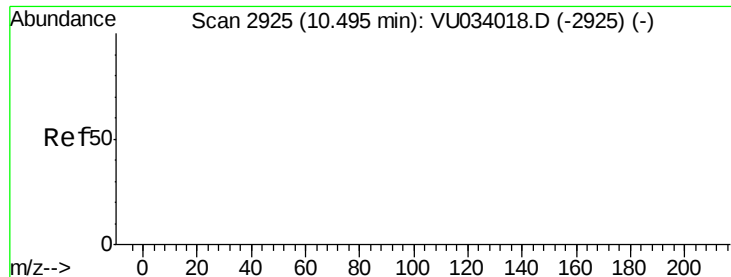
120 48.4 24.6 73.6



Abundance Ion 105.00 (104.70 to 105.70): VU034018.D (-2991) (-)

Ion 120.00 (119.70 to 120.70): VU034018.D (-2991) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 66.468 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

Instrument :

MSVOA_U

ClientSampleId :

PB122767TB

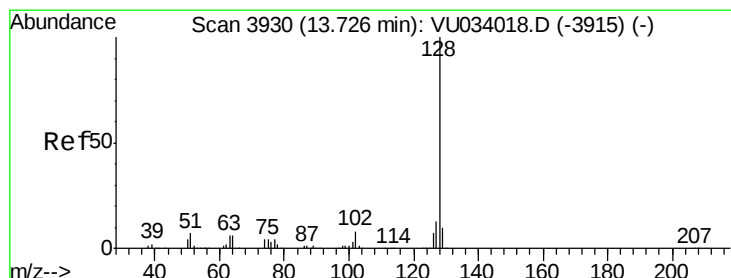
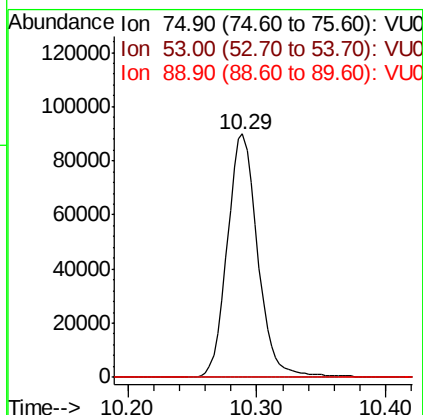
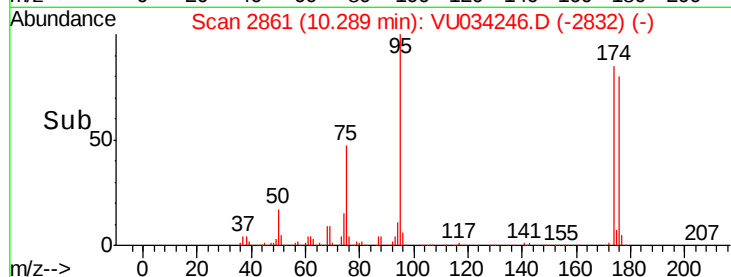
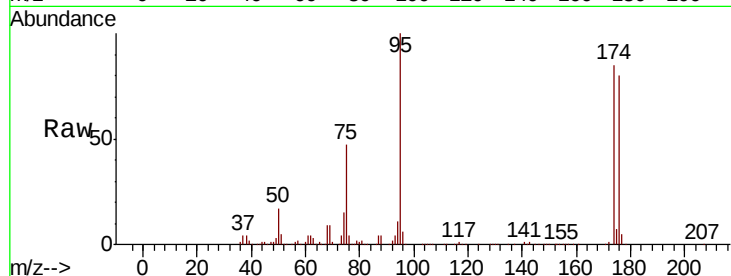
Tgt Ion: 75 Resp: 147368

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0



#95

Naphthalene

Concen: 1.804 ug/l

RT: 13.78 min Scan# 3948

Delta R.T. 0.06 min

Lab File: VU034246.D

Acq: 04 Sep 2019 10:42

Tgt Ion: 128 Resp: 305

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#

