

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090719\
 Data File : VU034340.D
 Acq On : 06 Sep 2019 18:53
 Operator : JC/SP
 Sample : K4580-38
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T12-A4-(0)

Quant Time: Sep 07 04:09:31 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	274507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	412040	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	419372	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	249317	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	215750	51.95	ug/l	0.00
Spiked Amount			Recovery	=	103.90%	
35) Dibromofluoromethane	4.86	113	188936	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	
50) Toluene-d8	7.55	98	725568	50.37	ug/l	0.00
Spiked Amount			Recovery	=	100.74%	
62) 4-Bromofluorobenzene	10.29	95	256203	46.07	ug/l	0.00
Spiked Amount			Recovery	=	92.14%	

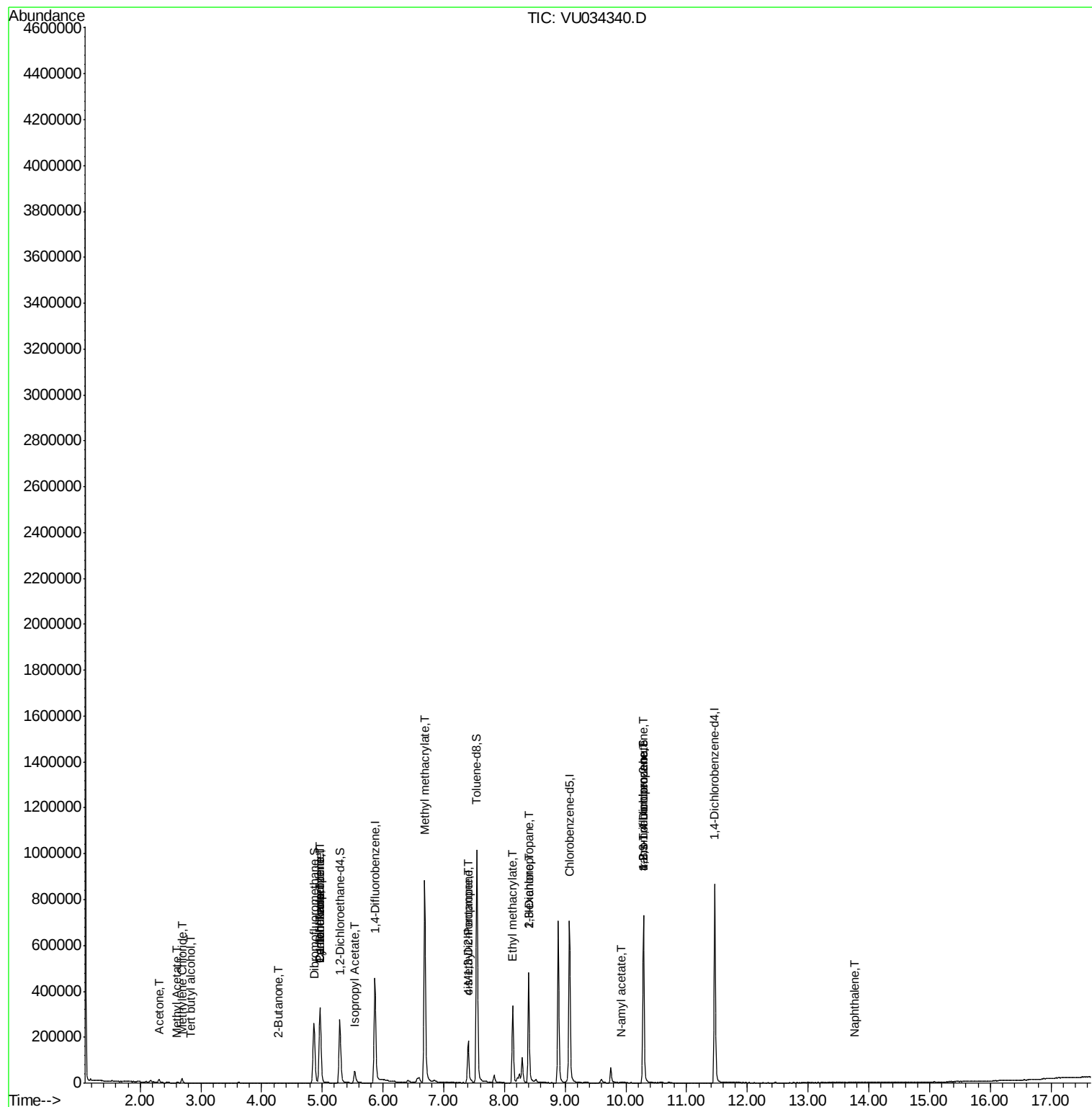
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.61	94	43	Below Cal	#	2
6) Chloroethane	1.67	64	74	Below Cal	#	43
11) Tert butyl alcohol	2.82	59	635	0.724	ug/l #	73
16) Acetone	2.31	43	15656	7.284	ug/l	97
18) Methyl Acetate	2.61	43	3484	0.666	ug/l	94
20) Methylene Chloride	2.69	84	8141	1.928	ug/l	92
25) 2-Butanone	4.27	43	940	0.328	ug/l #	83
31) Cyclohexane	4.96	56	4384	0.901	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	17866	3.998	ug/l #	50
38) Carbon Tetrachloride	4.96	117	24174	5.067	ug/l #	16
43) Isopropyl Acetate	5.53	43	61089	7.412	ug/l	98
48) Methyl methacrylate	6.68	41	74483	19.027	ug/l #	37
51) 4-Methyl-2-Pentanone	7.40	43	63543	11.138	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	35414	5.715	ug/l #	61
56) Ethyl methacrylate	8.13	69	1588	3.315	ug/l #	1
57) 1,3-Dichloropropane	8.40	76	4941	0.739	ug/l #	43
59) 2-Hexanone	8.40	43	62454	14.654	ug/l #	53
74) N-amyl acetate	9.92	43	2556	0.391	ug/l #	44
76) 1,2,3-Trichloropropane	10.29	75	120688	22.177	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	120688	74.578	ug/l #	100
95) Naphthalene	13.76	128	7002	4.354	ug/l #	78

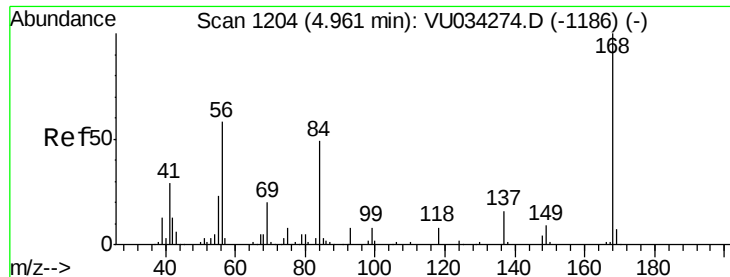
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034340.D

Acq: 06 Sep 2019 18:53

Instrument :

MSVOA_U

ClientSampleId :

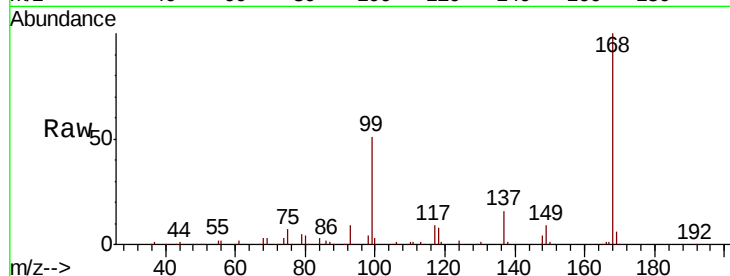
T12-A4-(0)

Tgt Ion:168 Resp: 274507

Ion Ratio Lower Upper

168 100

99 51.5 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034340.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034340.D (-1186) (-)

4.96

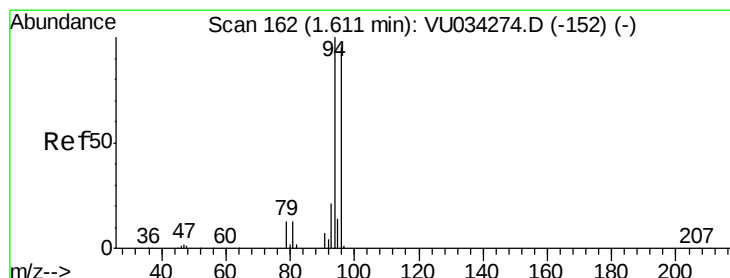
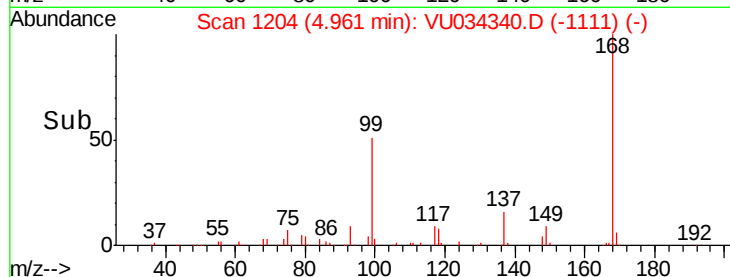
100000

50000

0

Time-->

4.85 4.90 4.95 5.00 5.05



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 161

Delta R.T. -0.00 min

Lab File: VU034340.D

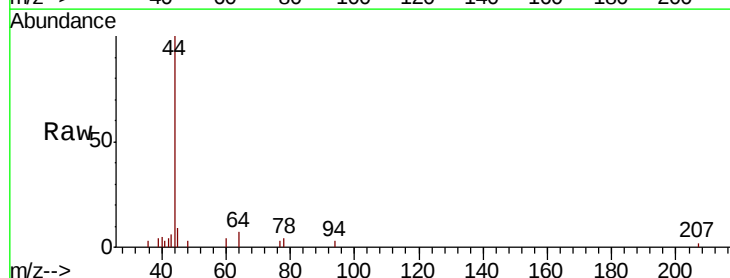
Acq: 06 Sep 2019 18:53

Tgt Ion: 94 Resp: 43

Ion Ratio Lower Upper

94 100

96 0.0 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034340.D (-68) (-)

Ion 95.90 (95.60 to 96.60): VU034340.D (-68) (-)

300

250

200

150

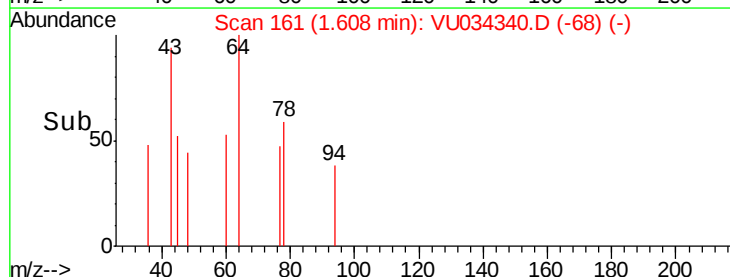
100

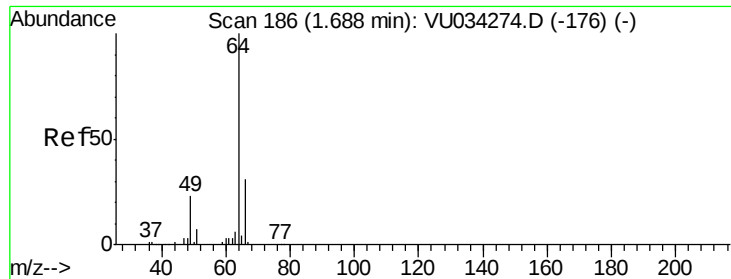
50

0

Time-->

1.60 1.61 1.62





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 181

Delta R.T. -0.02 min

Lab File: VU034340.D

Acq: 06 Sep 2019 18:53

Instrument :

MSVOA_U

ClientSampleId :

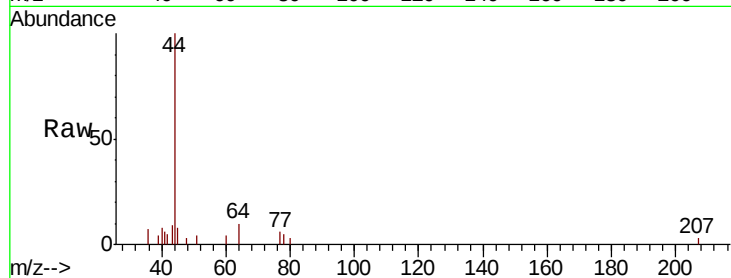
T12-A4-(0)

Tgt Ion: 64 Resp: 74

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU034340.D (-176) (-)

Ion 65.90 (65.60 to 66.60): VU034340.D (-176) (-)

1.67

400

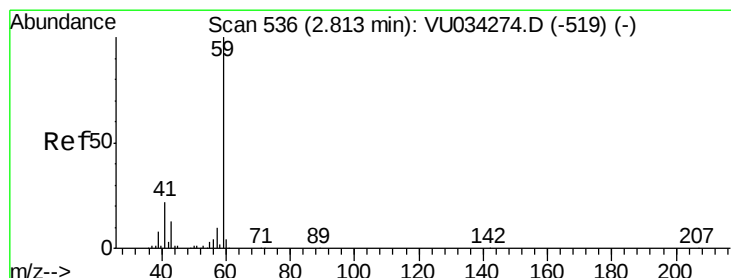
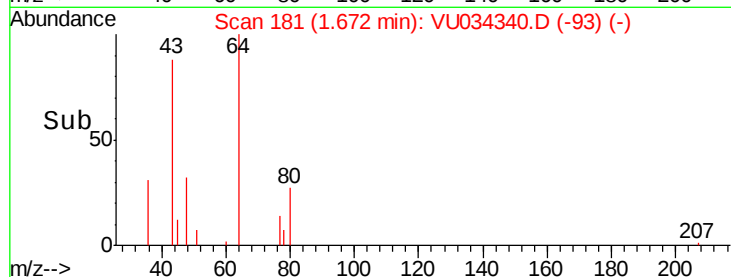
300

200

100

0

Time-->



#11

Tert butyl alcohol

Concen: 0.724 ug/l

RT: 2.82 min Scan# 537

Delta R.T. 0.00 min

Lab File: VU034340.D

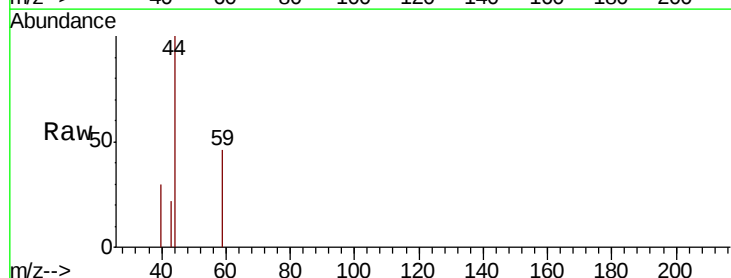
Acq: 06 Sep 2019 18:53

Tgt Ion: 59 Resp: 635

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034340.D (-519) (-)

Ion 57.00 (56.70 to 57.70): VU034340.D (-519) (-)

2.82

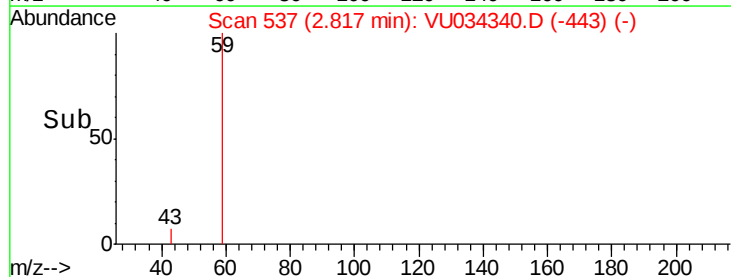
300

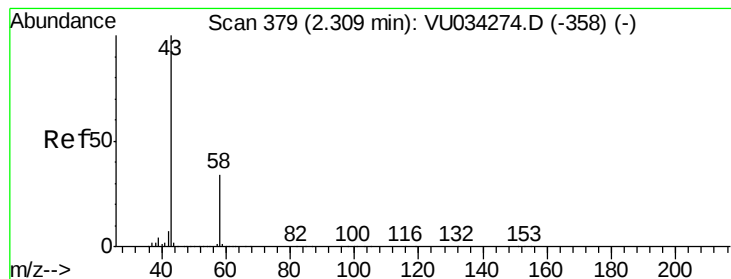
200

100

0

Time-->





#16

Acetone

Concen: 7.284 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034340.D

Acq: 06 Sep 2019 18:53

Instrument :

MSVOA_U

ClientSampleId :

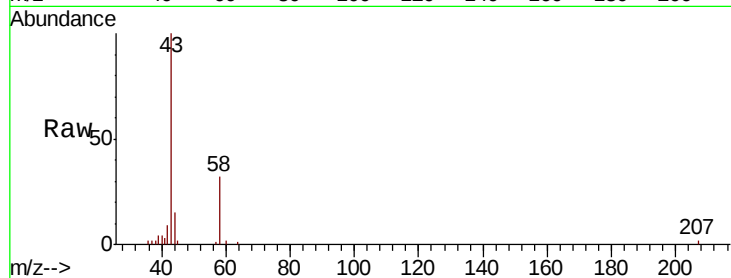
T12-A4-(0)

Tgt Ion: 43 Resp: 15656

Ion Ratio Lower Upper

43 100

58 32.8 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034340.D (-380) (-)

Ion 58.00 (57.70 to 58.70): VU034340.D (-380) (-)

2.31

10000

8000

6000

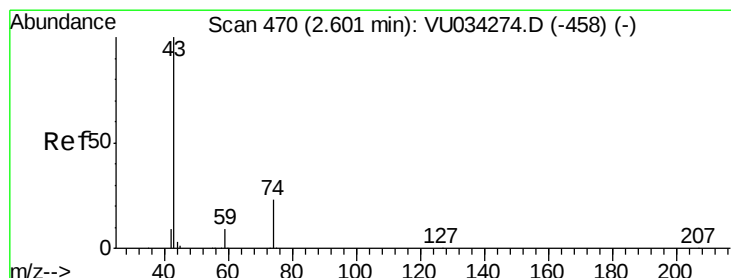
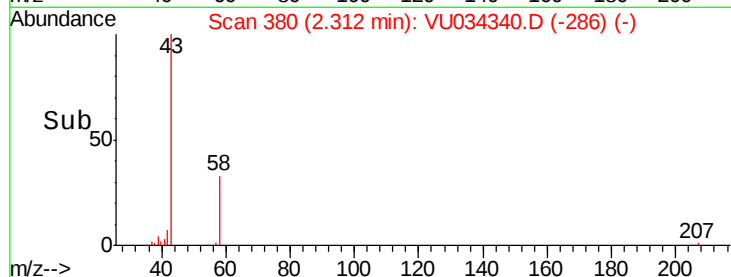
4000

2000

0

Time-->

2.25 2.30 2.35



#18

Methyl Acetate

Concen: 0.666 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034340.D

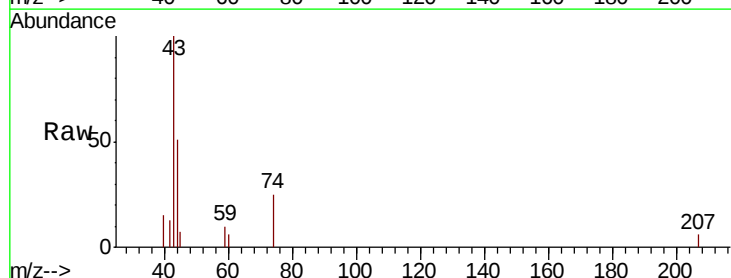
Acq: 06 Sep 2019 18:53

Tgt Ion: 43 Resp: 3484

Ion Ratio Lower Upper

43 100

74 26.6 18.9 28.3



Abundance Ion 43.00 (42.70 to 43.70): VU034340.D (-473) (-)

Ion 74.00 (73.70 to 74.70): VU034340.D (-473) (-)

2.61

2000

1500

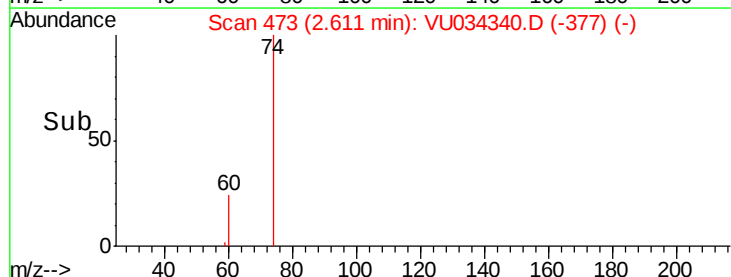
1000

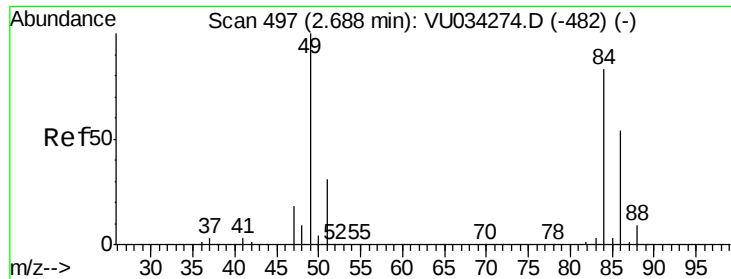
500

0

Time-->

2.55 2.60 2.65 2.70





#20

Methylene Chloride

Concen: 1.928 ug/l

RT: 2.69 min Scan# 497

Delta R.T. 0.00 min

Lab File: VU034340.D

Acq: 06 Sep 2019 18:53

Instrument :

MSVOA_U

ClientSampleId :

T12-A4-(0)

Tgt Ion: 84 Resp: 8141

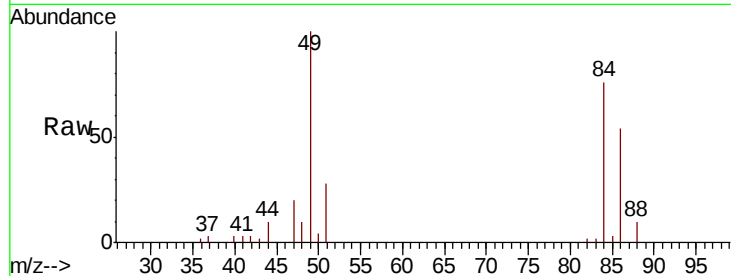
Ion Ratio Lower Upper

84 100

49 130.8 96.0 144.0

51 36.5 30.0 45.0

86 70.0 51.4 77.0

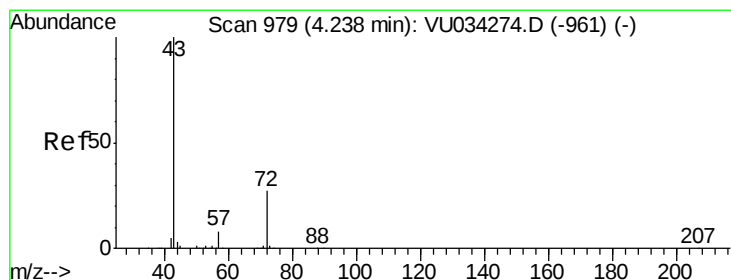
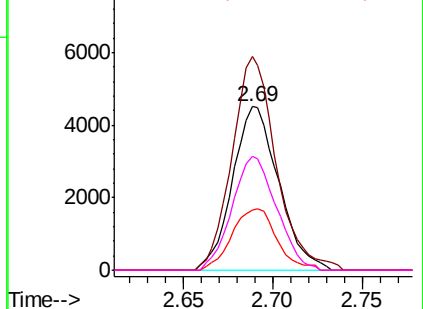
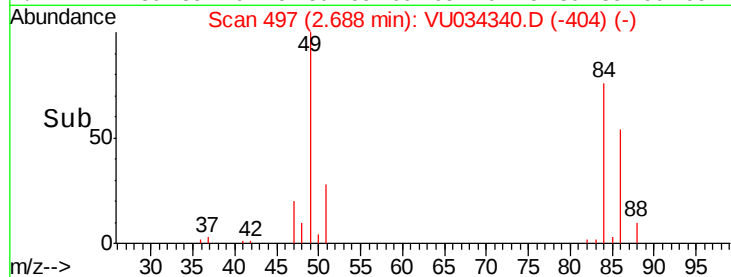


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#25

2-Butanone

Concen: 0.328 ug/l

RT: 4.27 min Scan# 990

Delta R.T. 0.04 min

Lab File: VU034340.D

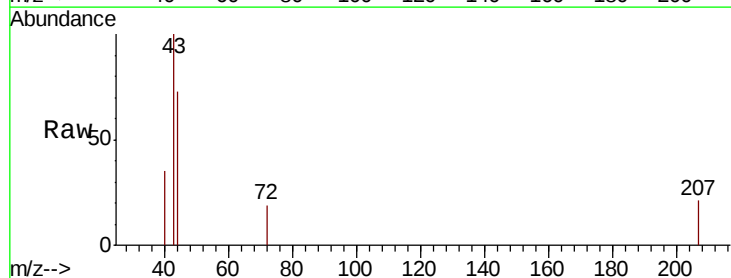
Acq: 06 Sep 2019 18:53

Tgt Ion: 43 Resp: 940

Ion Ratio Lower Upper

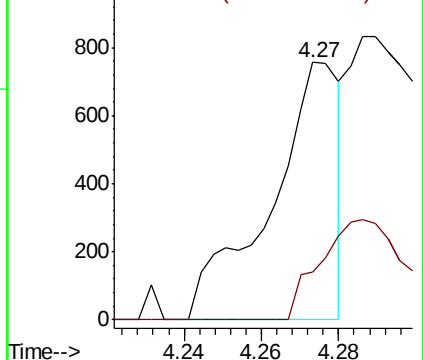
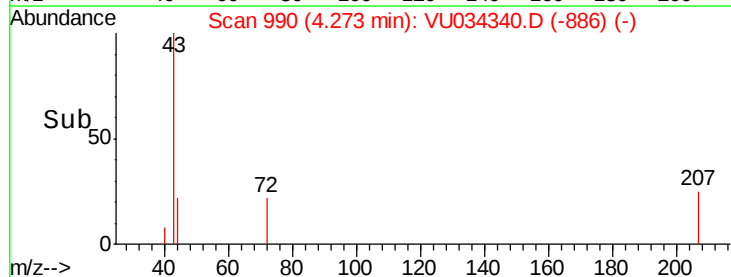
43 100

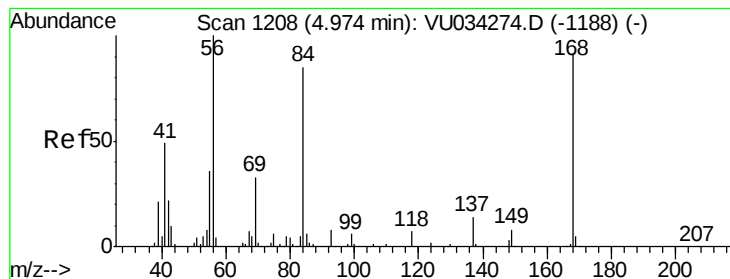
72 18.5 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0





#31

Cyclohexane

Concen: 0.901 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034340.D

Acq: 06 Sep 2019 18:53

Instrument :

MSVOA_U

ClientSampleId :

T12-A4-(0)

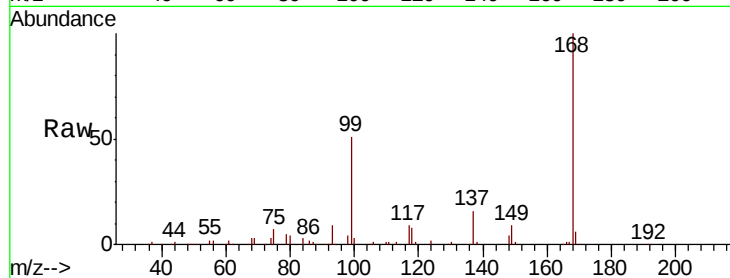
Tgt Ion: 56 Resp: 4384

Ion Ratio Lower Upper

56 100

69 194.6 26.7 40.1#

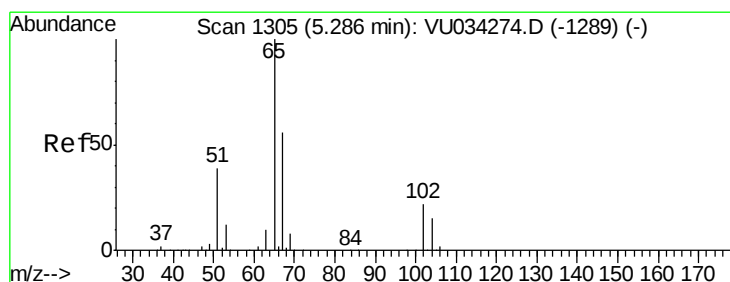
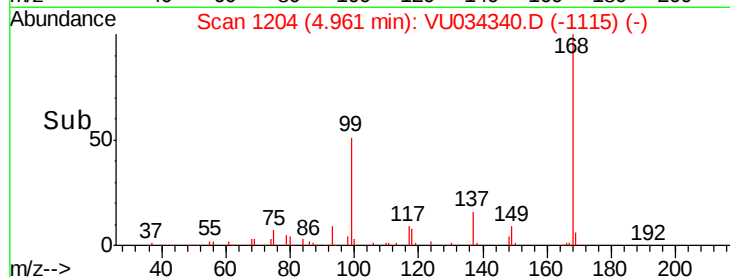
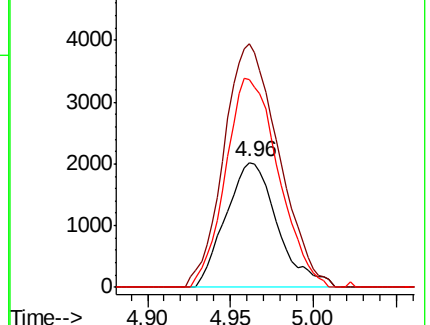
84 166.3 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU034340.D (-1188) (-)

Ion 69.00 (68.70 to 69.70): VU034340.D (-1188) (-)

Ion 84.00 (83.70 to 84.70): VU034340.D (-1188) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.946 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034340.D

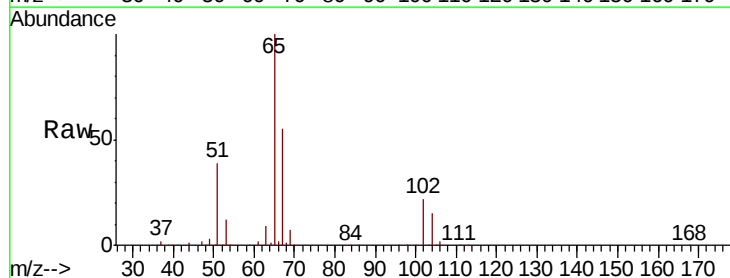
Acq: 06 Sep 2019 18:53

Tgt Ion: 65 Resp: 215750

Ion Ratio Lower Upper

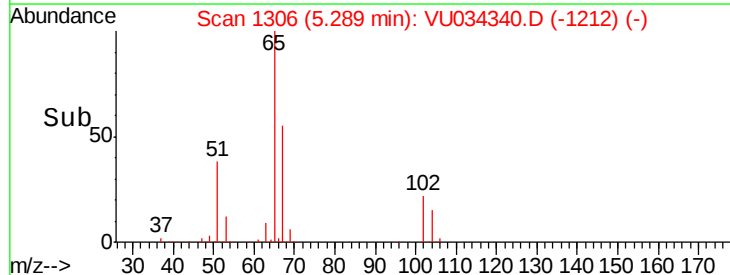
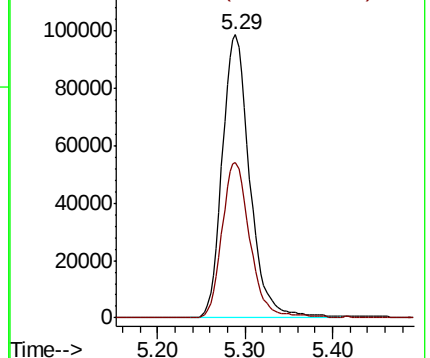
65 100

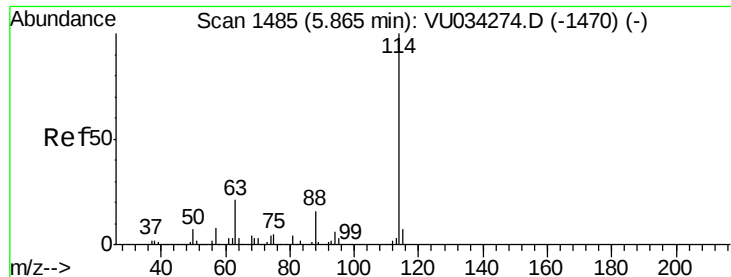
67 56.0 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU034340.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034340.D (-1289) (-)

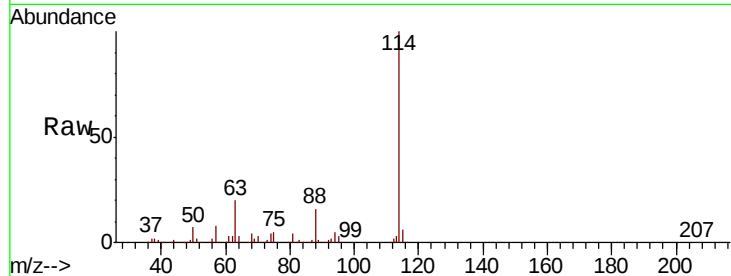




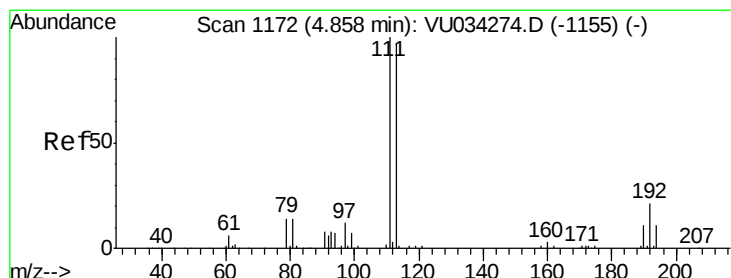
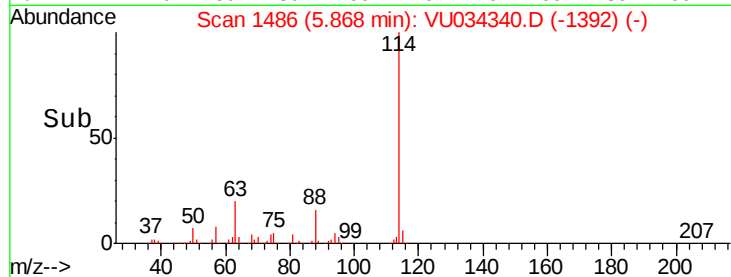
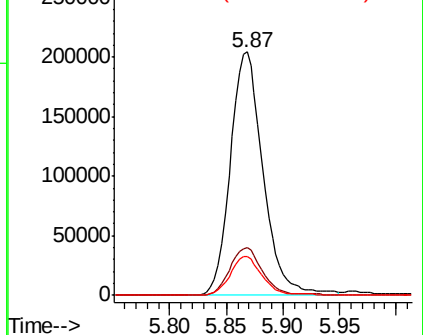
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034340.D
 Acq: 06 Sep 2019 18:53

Instrument :
 MSVOA_U
 ClientSampleId :
 T12-A4-(0)

Tgt Ion:114 Resp: 412040
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 42.4
 88 16.1 0.0 32.4

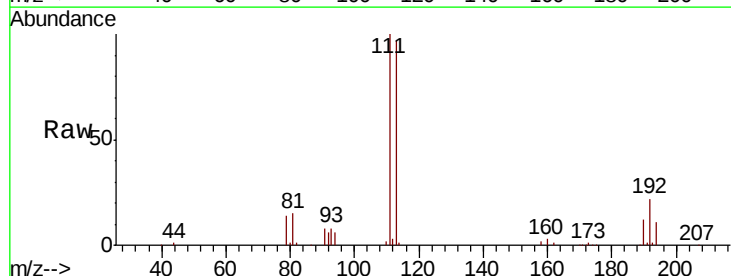


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

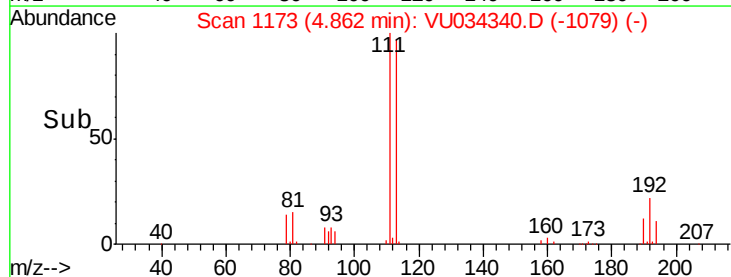
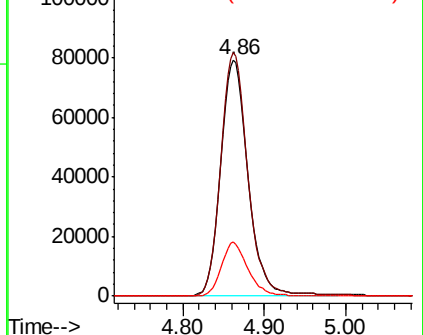


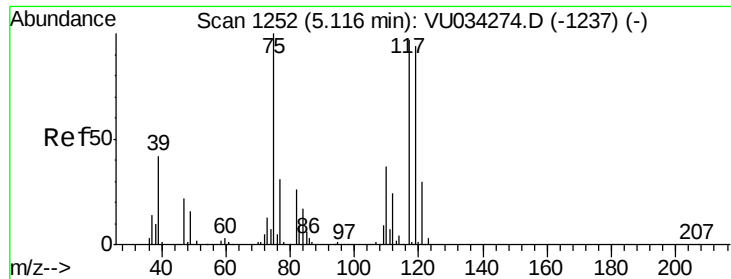
#35
 Dibromofluoromethane
 Concen: 49.278 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034340.D
 Acq: 06 Sep 2019 18:53

Tgt Ion:113 Resp: 188936
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.5 122.3
 192 21.9 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

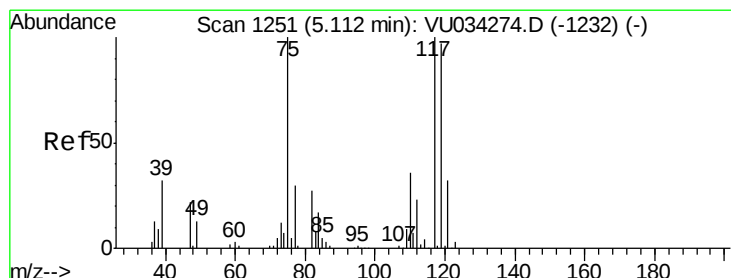
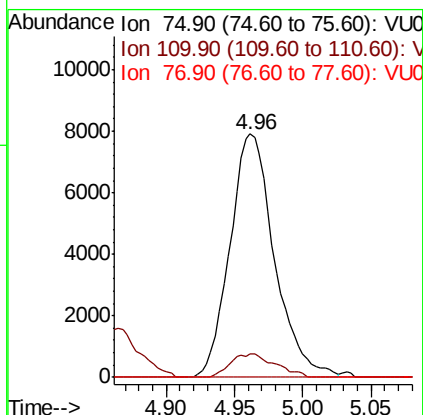
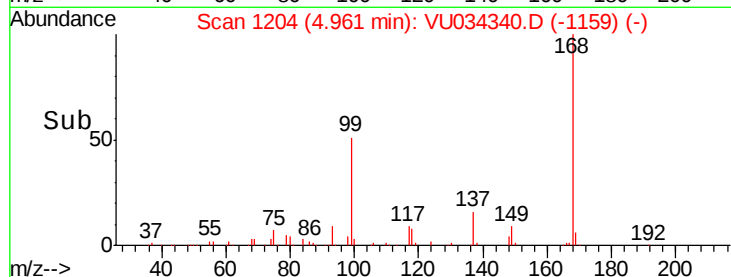
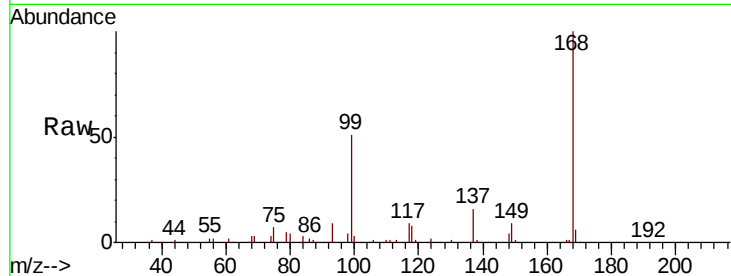




#36
 1,1-Dichloropropene
 Concen: 3.998 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034340.D
 Acq: 06 Sep 2019 18:53

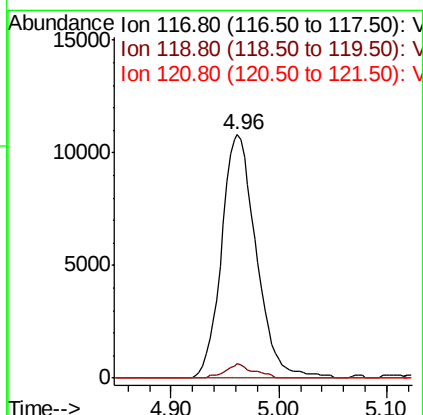
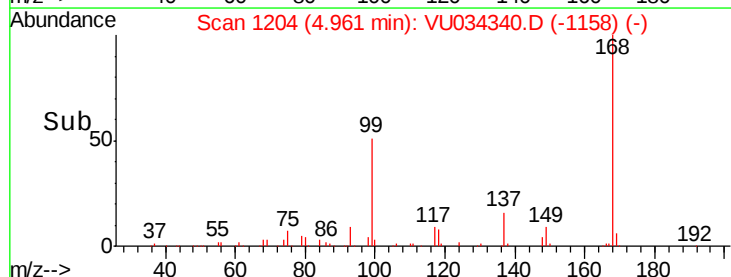
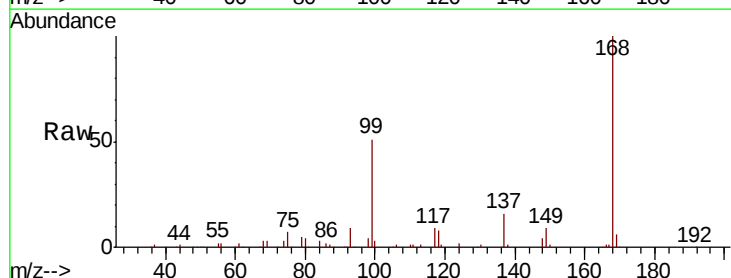
Instrument :
 MSVOA_U
 ClientSampleId :
 T12-A4-(0)

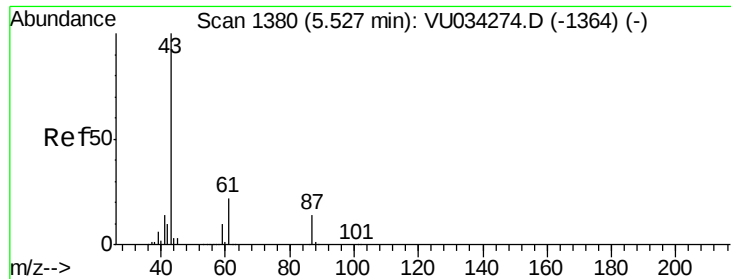
Tgt Ion: 75 Resp: 17866
 Ion Ratio Lower Upper
 75 100
 110 9.8 18.3 54.9#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 5.067 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034340.D
 Acq: 06 Sep 2019 18:53

Tgt Ion: 117 Resp: 24174
 Ion Ratio Lower Upper
 117 100
 119 5.7 77.8 116.6#
 121 0.0 25.2 37.8#

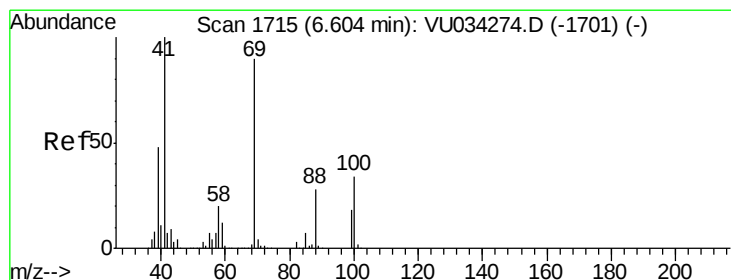
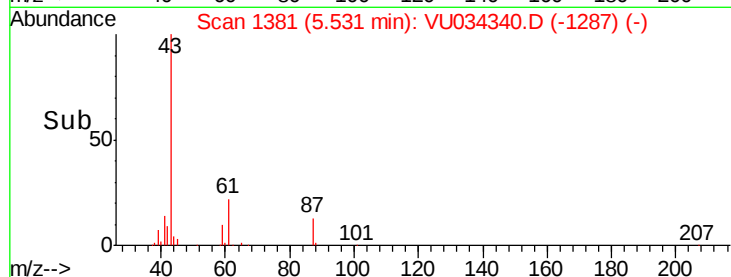
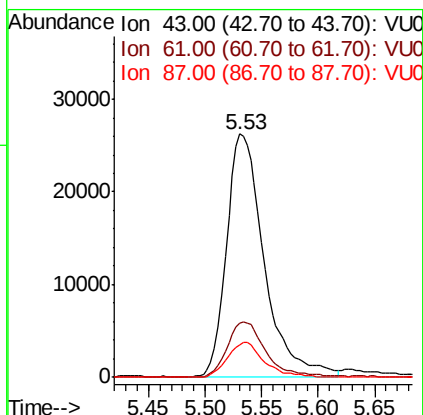
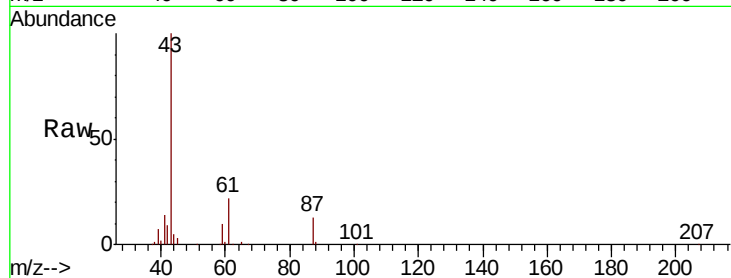




#43
Isopropyl Acetate
Concen: 7.412 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034340.D
Acq: 06 Sep 2019 18:53

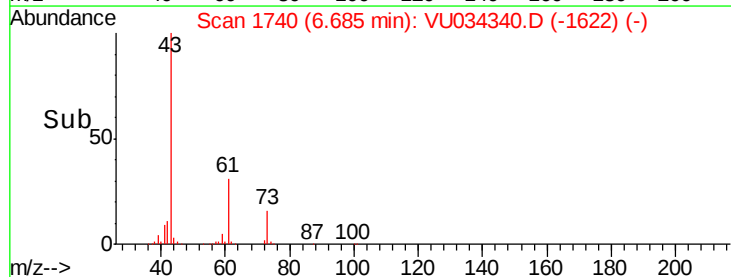
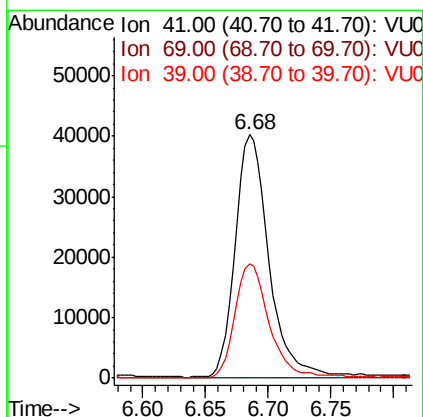
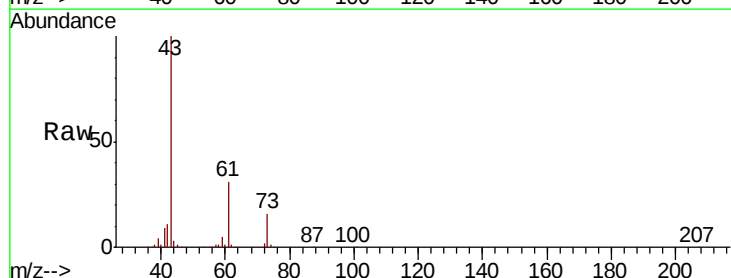
Instrument :
MSVOA_U
ClientSampleId :
T12-A4-(0)

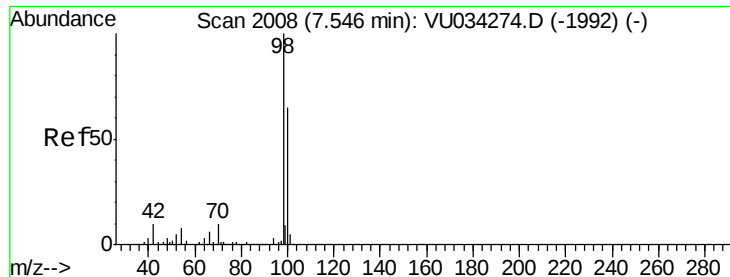
Tgt Ion: 43 Resp: 61089
Ion Ratio Lower Upper
43 100
61 23.1 17.1 25.7
87 13.8 11.1 16.7



#48
Methyl methacrylate
Concen: 19.027 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.08 min
Lab File: VU034340.D
Acq: 06 Sep 2019 18:53

Tgt Ion: 41 Resp: 74483
Ion Ratio Lower Upper
41 100
69 0.0 72.8 109.2#
39 48.7 38.6 58.0





#50

Toluene-d8

Concen: 50.371 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034340.D

Acq: 06 Sep 2019 18:53

Instrument :

MSVOA_U

ClientSampleId :

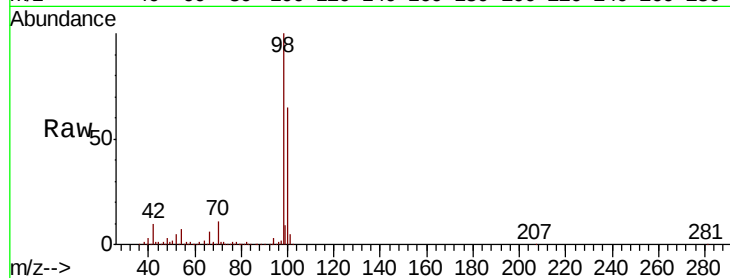
T12-A4-(0)

Tgt Ion: 98 Resp: 725568

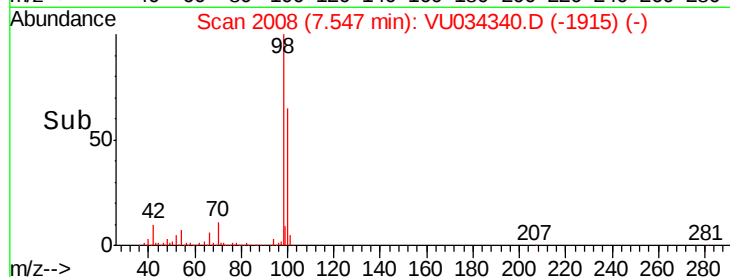
Ion Ratio Lower Upper

98 100

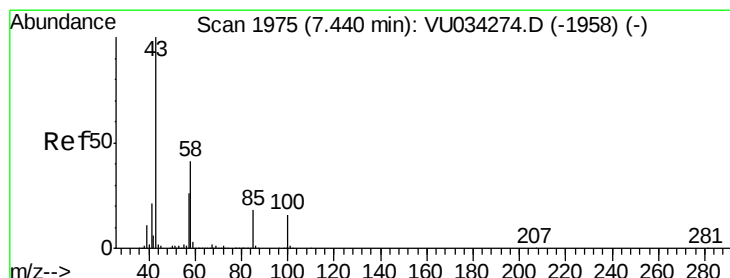
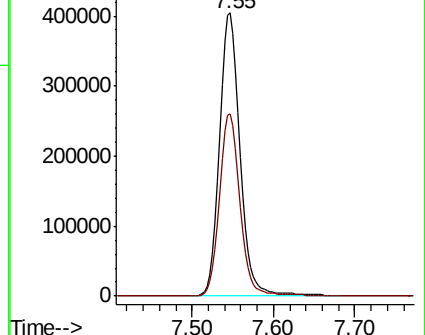
100 64.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU034340.D (-1915) (-)



Ion 100.00 (99.70 to 100.70): VU034340.D (-1915) (-)



#51

4-Methyl-2-Pentanone

Concen: 11.138 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034340.D

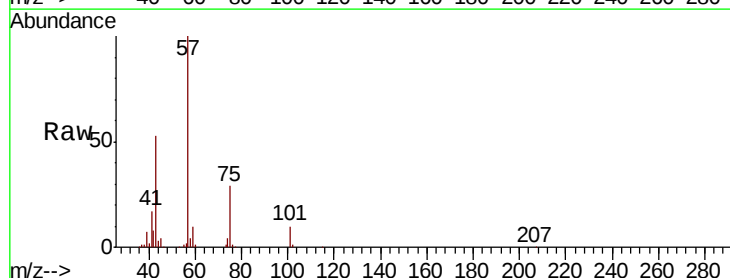
Acq: 06 Sep 2019 18:53

Tgt Ion: 43 Resp: 63543

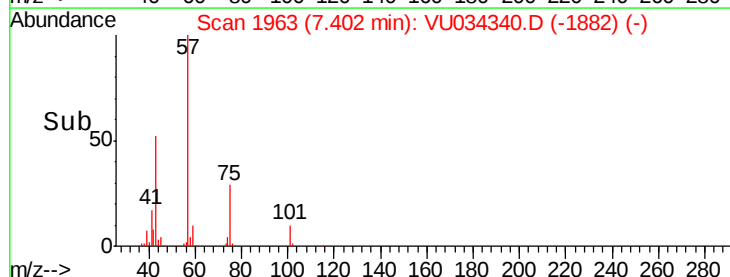
Ion Ratio Lower Upper

43 100

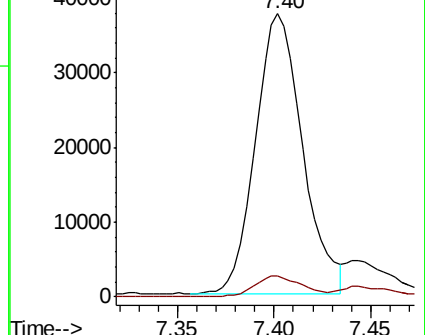
58 7.6 33.0 49.4#

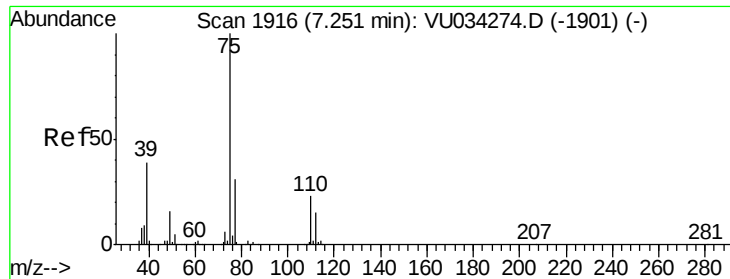


Abundance Ion 43.00 (42.70 to 43.70): VU034340.D (-1882) (-)



Ion 58.00 (57.70 to 58.70): VU034340.D (-1882) (-)



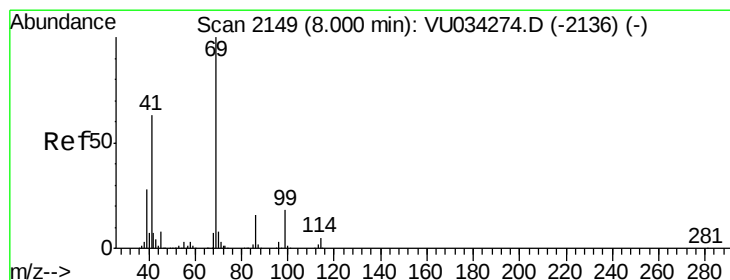
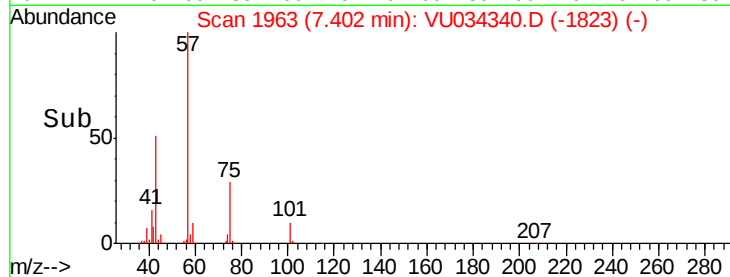
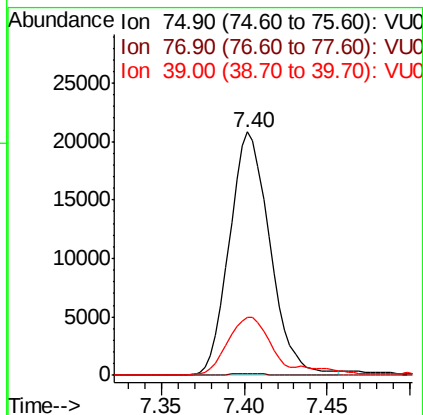
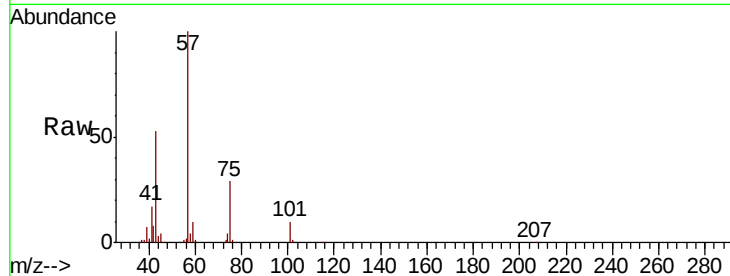


#54

cis-1,3-Dichloropropene
 Concen: 5.715 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034340.D
 Acq: 06 Sep 2019 18:53

Instrument :
 MSVOA_U
 ClientSampleId :
 T12-A4-(0)

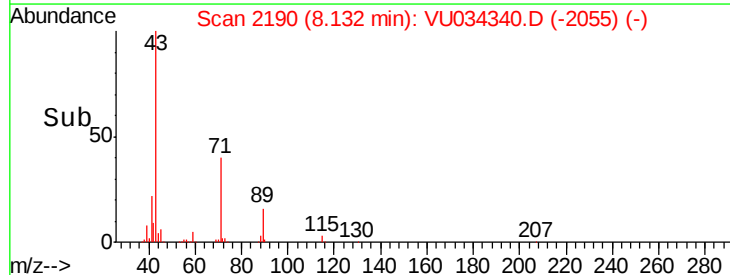
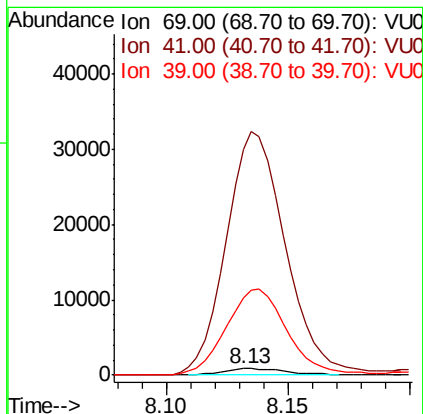
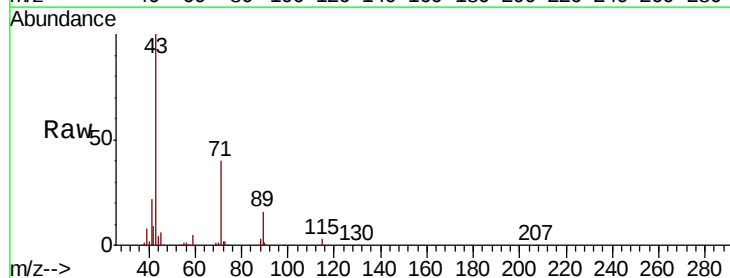
Tgt Ion: 75 Resp: 35414
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.1 37.7#
 39 23.7 31.2 46.8#

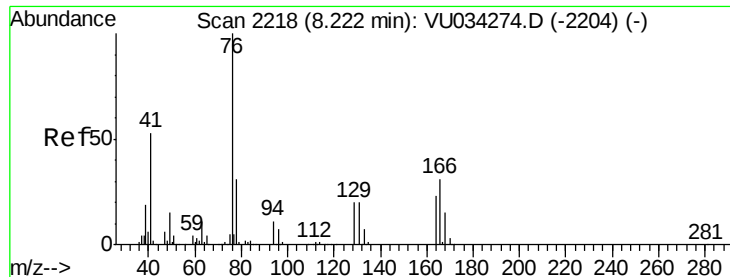


#56

Ethyl methacrylate
 Concen: 3.315 ug/l
 RT: 8.13 min Scan# 2190
 Delta R.T. 0.13 min
 Lab File: VU034340.D
 Acq: 06 Sep 2019 18:53

Tgt Ion: 69 Resp: 1588
 Ion Ratio Lower Upper
 69 100
 41 3452.8 49.5 74.3#
 39 1255.4 22.5 33.7#





#57

1,3-Dichloropropane

Concen: 0.739 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034340.D

Acq: 06 Sep 2019 18:53

Instrument :

MSVOA_U

ClientSampleId :

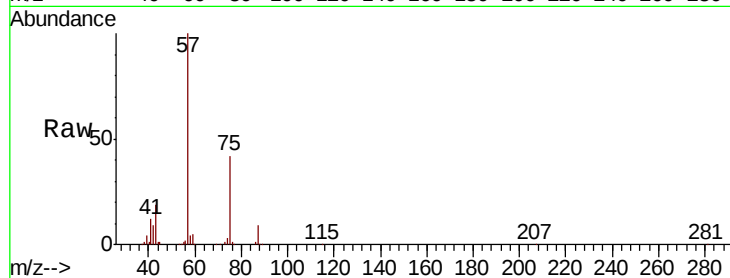
T12-A4-(0)

Tgt Ion: 76 Resp: 4941

Ion Ratio Lower Upper

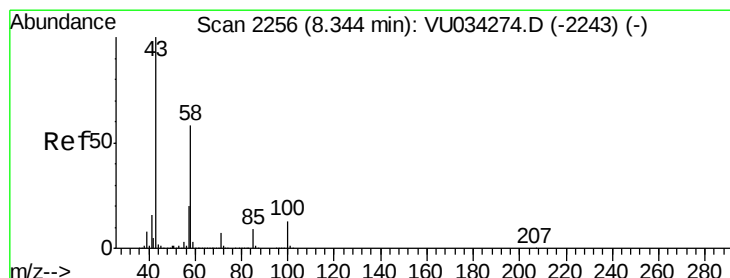
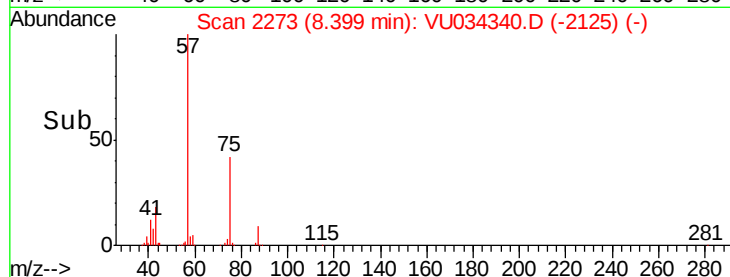
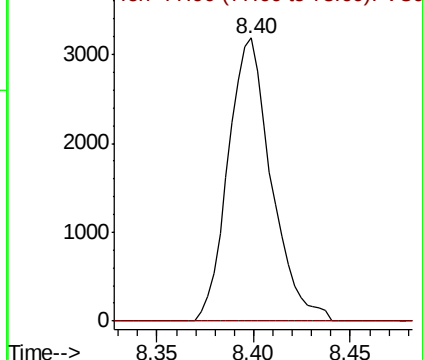
76 100

78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VU034340.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034340.D (-2125) (-)



#59

2-Hexanone

Concen: 14.654 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034340.D

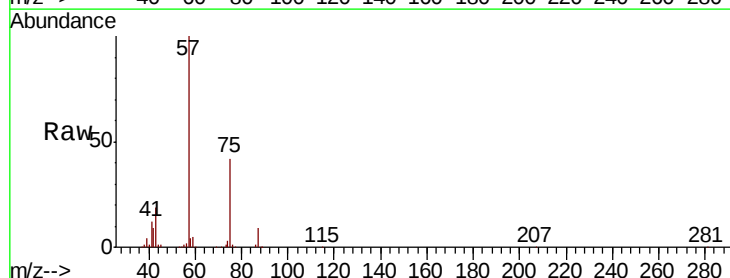
Acq: 06 Sep 2019 18:53

Tgt Ion: 43 Resp: 62454

Ion Ratio Lower Upper

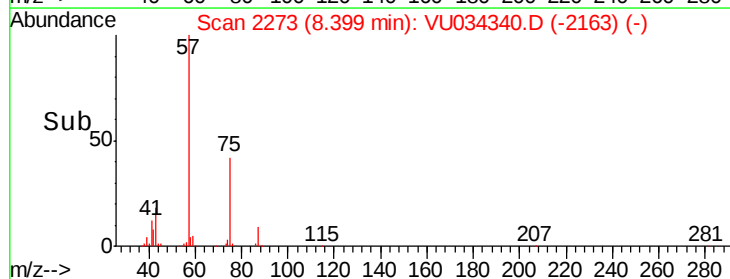
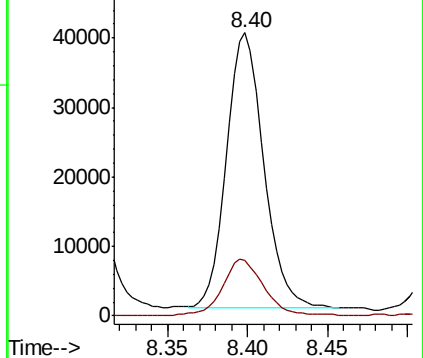
43 100

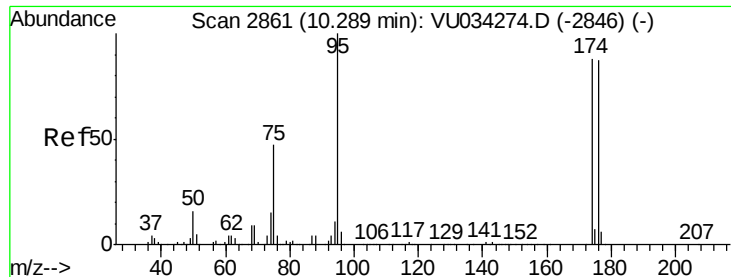
58 23.2 28.8 86.5#



Abundance Ion 43.00 (42.70 to 43.70): VU034340.D (-2163) (-)

Ion 58.00 (57.70 to 58.70): VU034340.D (-2163) (-)

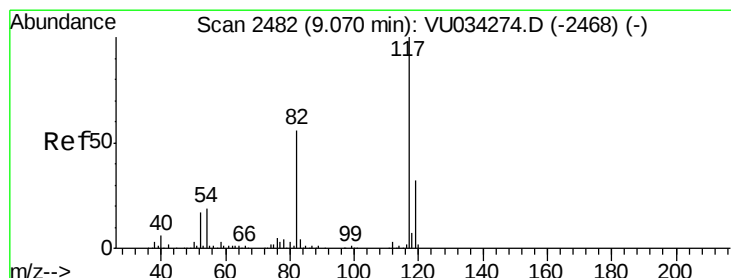
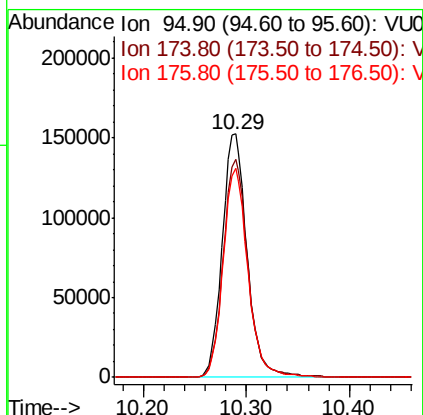
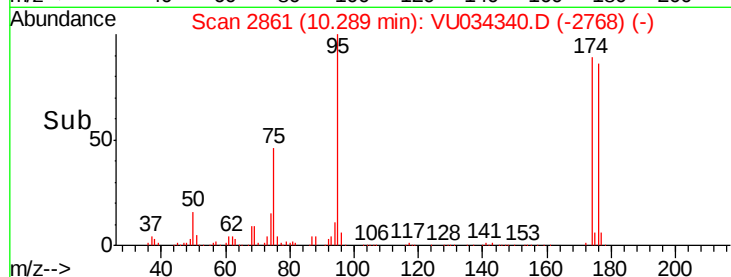
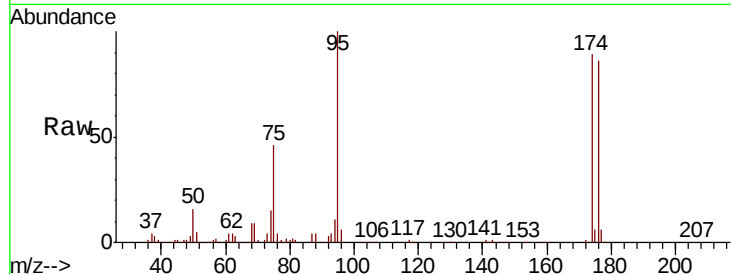




#62
4-Bromofluorobenzene
Concen: 46.067 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034340.D
Acq: 06 Sep 2019 18:53

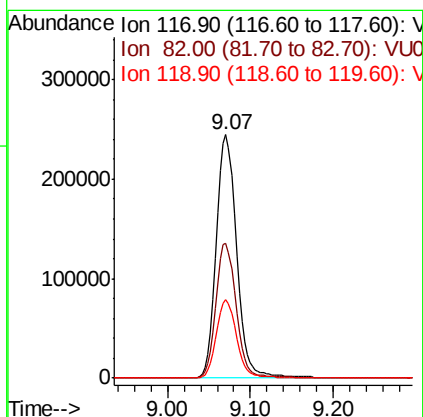
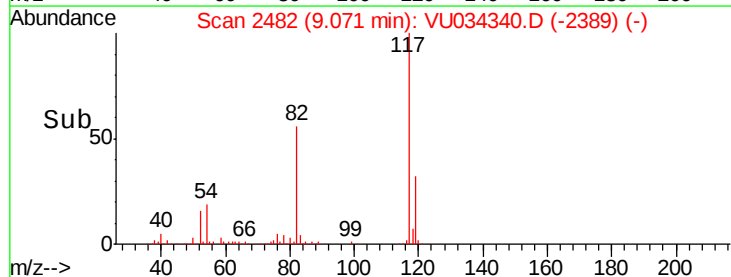
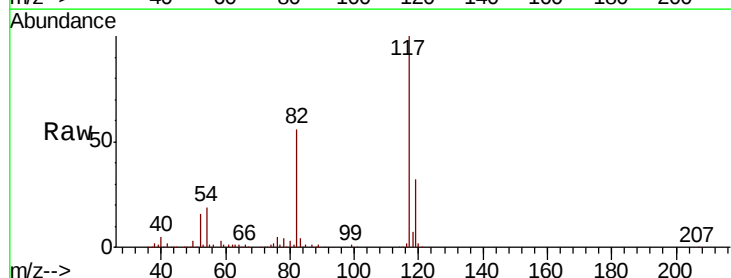
Instrument :
MSVOA_U
ClientSampleId :
T12-A4-(0)

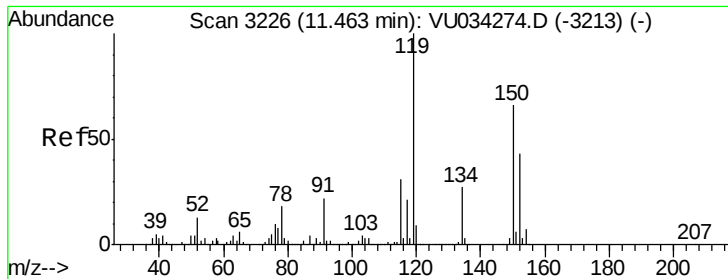
Tgt Ion: 95 Resp: 256203
Ion Ratio Lower Upper
95 100
174 89.4 0.0 175.2
176 85.4 0.0 168.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034340.D
Acq: 06 Sep 2019 18:53

Tgt Ion: 117 Resp: 419372
Ion Ratio Lower Upper
117 100
82 55.6 44.6 67.0
119 32.1 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: VU034340.D

Acq: 06 Sep 2019 18:53

Instrument :

MSVOA_U

ClientSampleId :

T12-A4-(0)

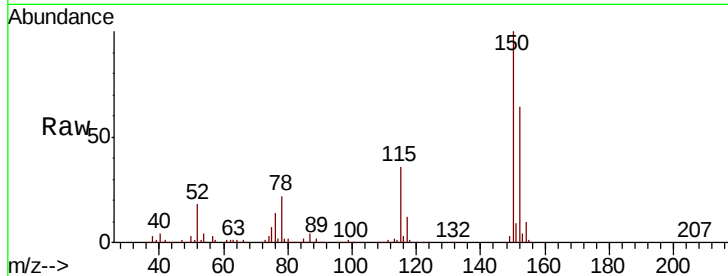
Tgt Ion:152 Resp: 249317

Ion Ratio Lower Upper

152 100

115 56.3 39.1 117.3

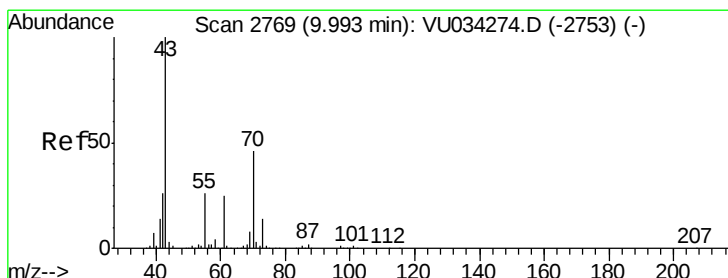
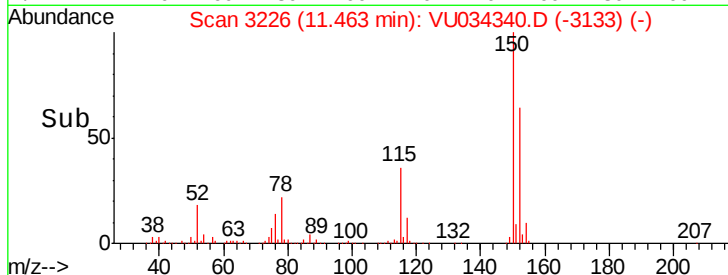
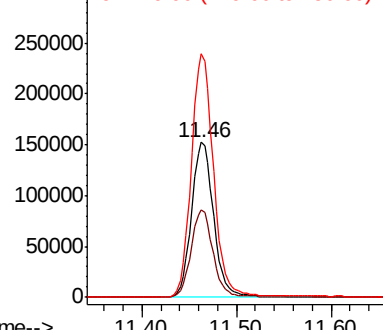
150 156.6 0.0 345.4



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: 0.391 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034340.D

Acq: 06 Sep 2019 18:53

Tgt Ion: 43 Resp: 2556

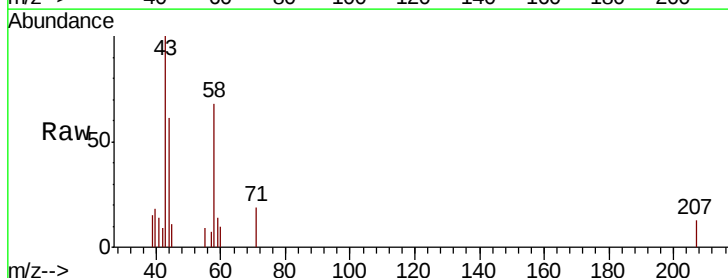
Ion Ratio Lower Upper

43 100

70 0.0 36.4 54.6#

55 5.8 21.2 31.8#

61 0.0 20.4 30.6#

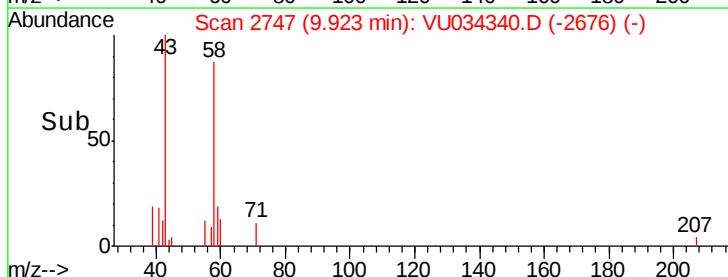
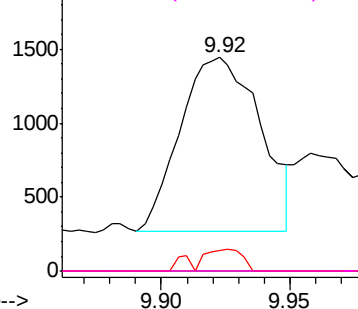


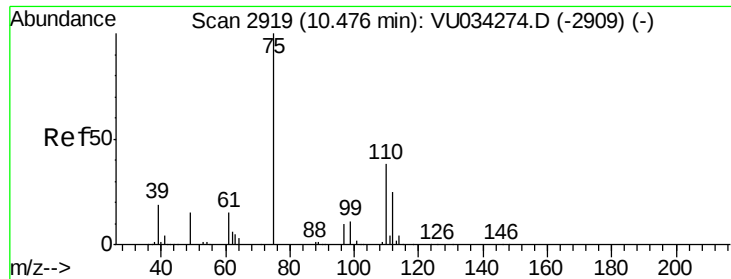
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 22.177 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034340.D

Acq: 06 Sep 2019 18:53

Instrument :

MSVOA_U

ClientSampleId :

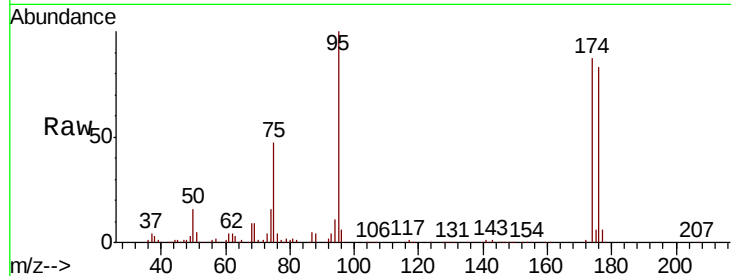
T12-A4-(0)

Tgt Ion: 75 Resp: 120688

Ion Ratio Lower Upper

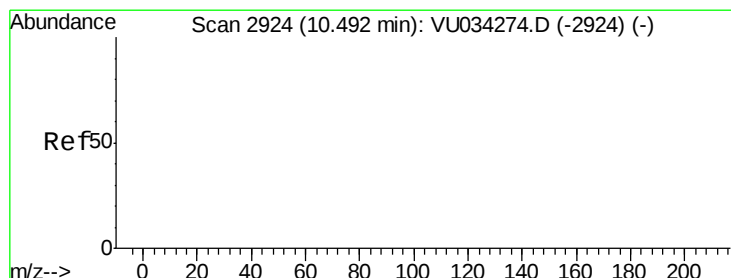
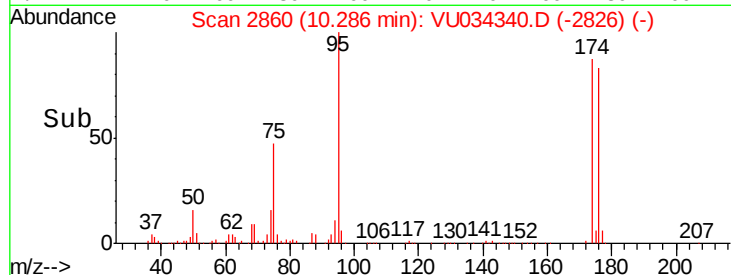
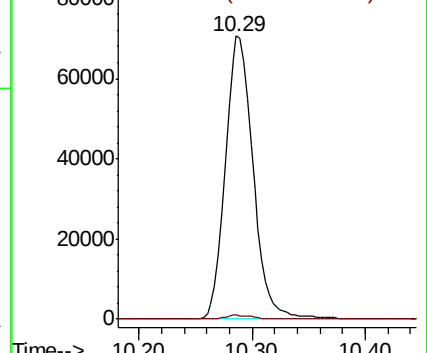
75 100

77 1.4 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 74.578 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034340.D

Acq: 06 Sep 2019 18:53

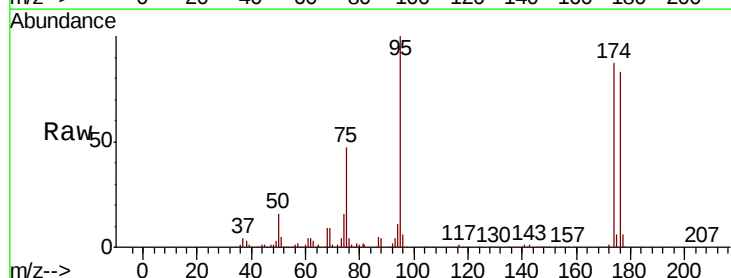
Tgt Ion: 75 Resp: 120688

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

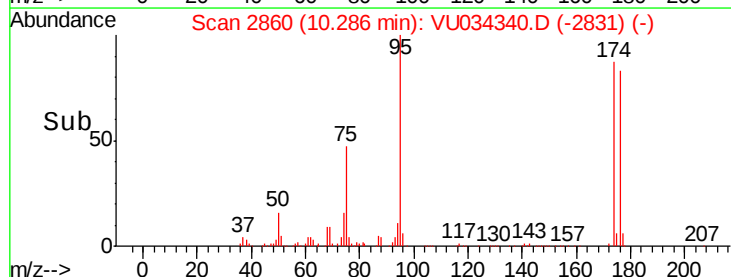
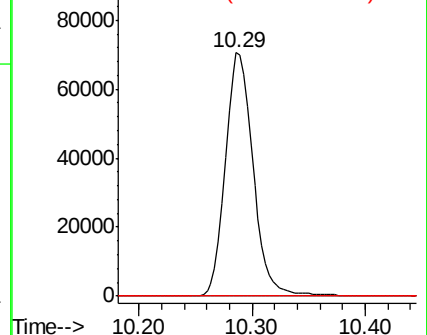
89 0.0 0.0 0.0

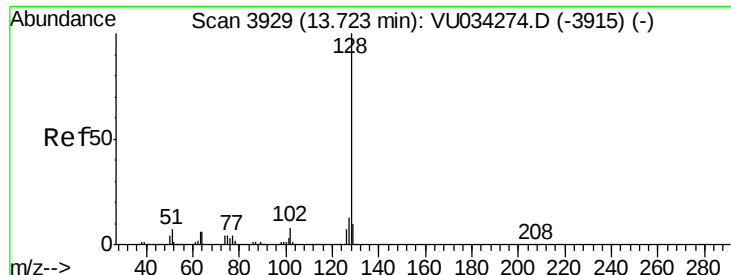


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#95

Naphthalene

Concen: 4.354 ug/l

RT: 13.76 min Scan# 3941

Delta R.T. 0.04 min

Lab File: VU034340.D

Acq: 06 Sep 2019 18:53

Instrument :

MSVOA_U

ClientSampleId :

T12-A4-(0)

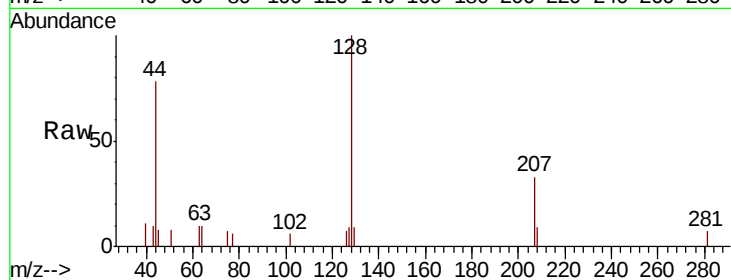
Tgt Ion:128 Resp: 7002

Ion Ratio Lower Upper

128 100

127 3.3 10.6 15.8#

129 3.9 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

