

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
 Data File : VU034146.D
 Acq On : 01 Sep 2019 01:23
 Operator : JC/SP
 Sample : K4526-28
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F3-(0)

Quant Time: Sep 01 04:53:45 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	461717	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	741851	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	734605	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	362603	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	290906	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	
35) Dibromofluoromethane	4.86	113	241955	47.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.04%	
50) Toluene-d8	7.55	98	955030	49.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.14%	
62) 4-Bromofluorobenzene	10.29	95	338940	45.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.46%	

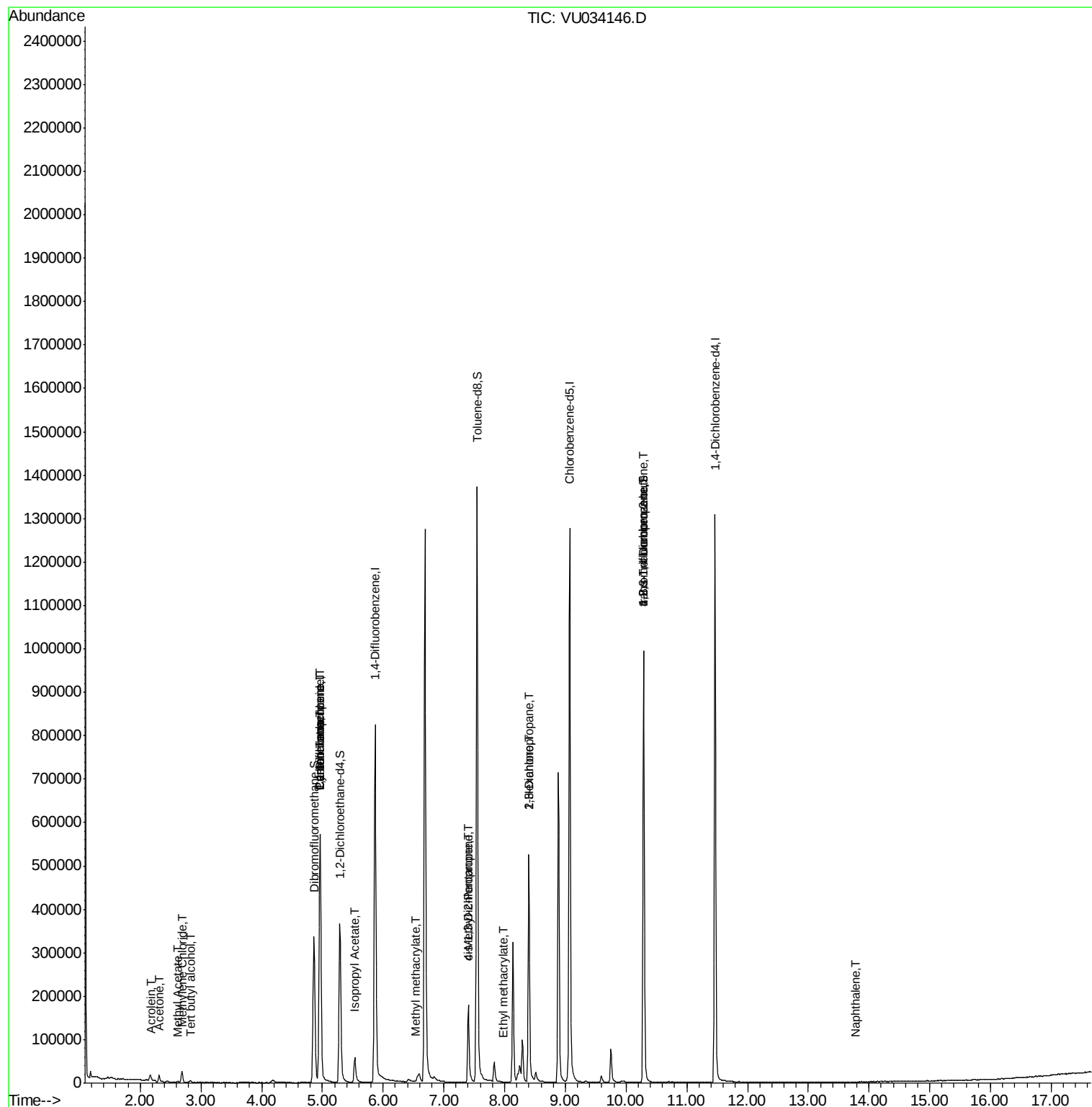
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	670	Below Cal		97
5) Bromomethane	1.63	94	695	Below Cal		92
11) Tert butyl alcohol	2.83	59	3047	2.233	ug/l #	73
13) Acrolein	2.19	56	144	0.251	ug/l #	1
16) Acetone	2.31	43	16831	5.576	ug/l	98
18) Methyl Acetate	2.61	43	3775	0.484	ug/l #	86
20) Methylene Chloride	2.69	84	11355	1.987	ug/l	94
31) Cyclohexane	4.96	56	8557	0.969	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	33149	4.724	ug/l #	49
38) Carbon Tetrachloride	4.96	117	40253	5.943	ug/l #	16
43) Isopropyl Acetate	5.53	43	71722	6.000	ug/l	99
48) Methyl methacrylate	6.52	41	5521	0.957	ug/l #	14
51) 4-Methyl-2-Pentanone	7.40	43	70622	8.554	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	32153	3.601	ug/l #	63
56) Ethyl methacrylate	7.98	69	66	0.979	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	5199	0.553	ug/l #	42
59) 2-Hexanone	8.40	43	74401	11.938	ug/l #	52
76) 1,2,3-Trichloropropane	10.29	75	162502	19.884	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	162502	66.955	ug/l #	100
95) Naphthalene	13.79	128	20	1.791	ug/l #	70

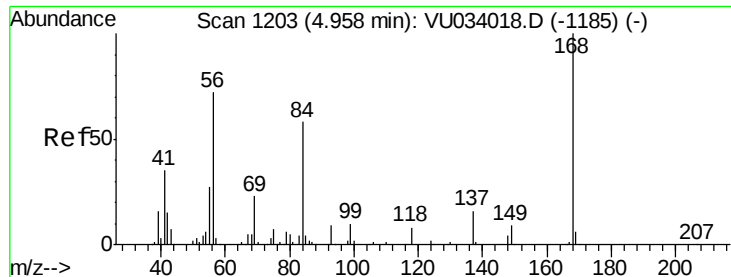
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
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: VU034146.D

Acq: 01 Sep 2019 01:23

Instrument :

MSVOA_U

ClientSampleId :

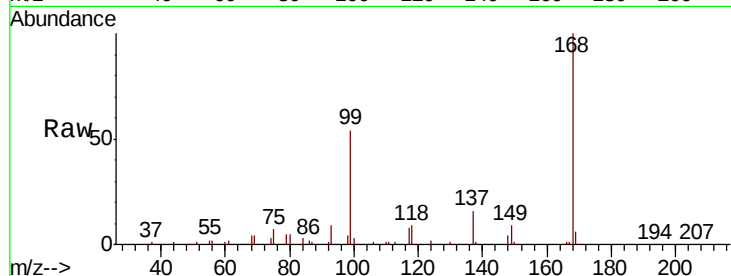
T9-12-13-F3-(0)

Tgt Ion:168 Resp: 461717

Ion Ratio Lower Upper

168 100

99 53.7 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034146.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034146.D (-1185) (-)

4.96

200000

150000

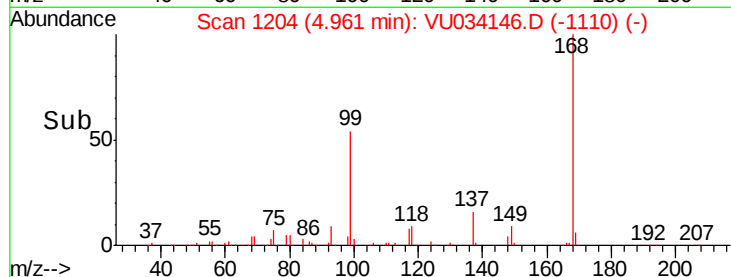
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034146.D

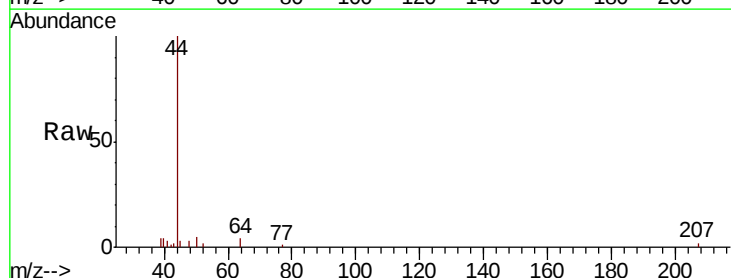
Acq: 01 Sep 2019 01:23

Tgt Ion: 50 Resp: 670

Ion Ratio Lower Upper

50 100

52 34.3 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034146.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034146.D (-63) (-)

1.33

500

400

300

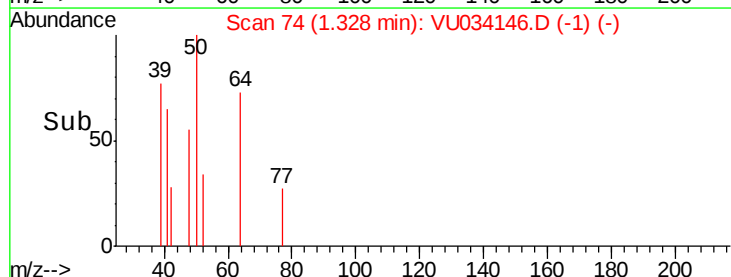
200

100

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034146.D

Acq: 01 Sep 2019 01:23

Instrument :

MSVOA_U

ClientSampleId :

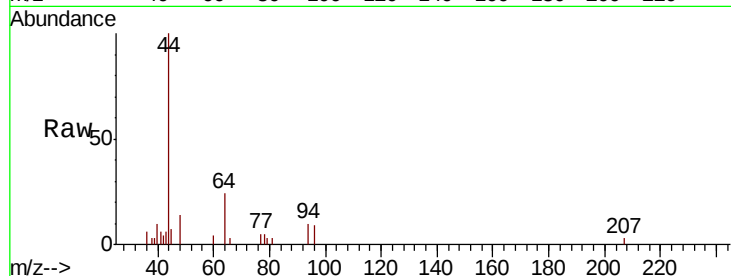
T9-12-13-F3-(0)

Tgt Ion: 94 Resp: 695

Ion Ratio Lower Upper

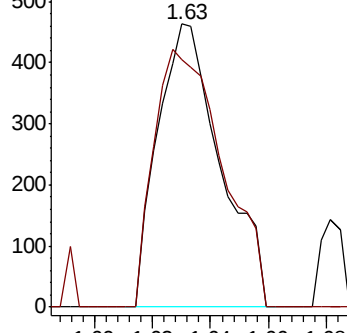
94 100

96 87.5 76.3 114.5

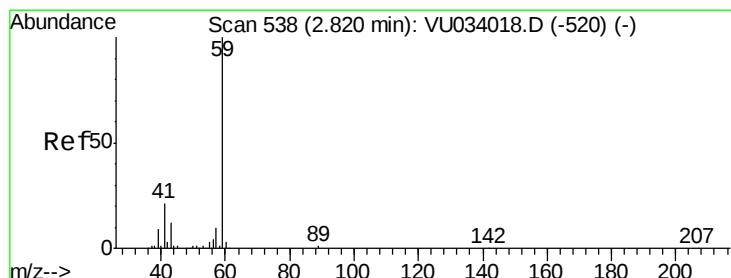
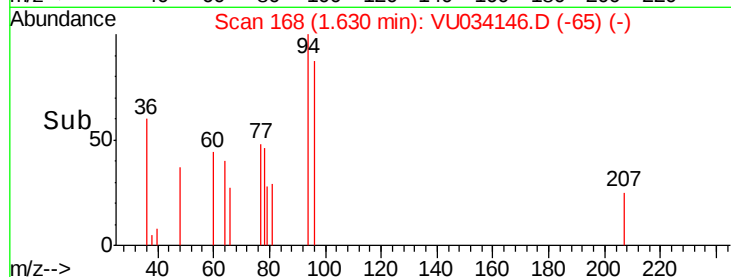


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time-->



#11

Tert butyl alcohol

Concen: 2.233 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034146.D

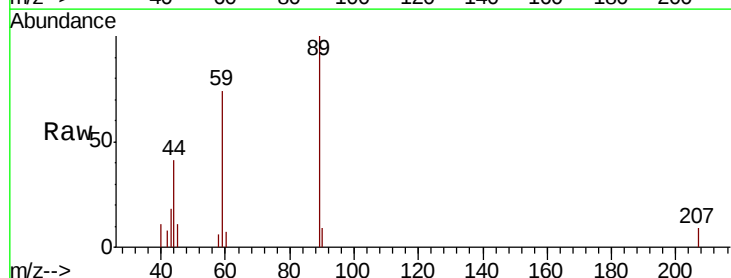
Acq: 01 Sep 2019 01:23

Tgt Ion: 59 Resp: 3047

Ion Ratio Lower Upper

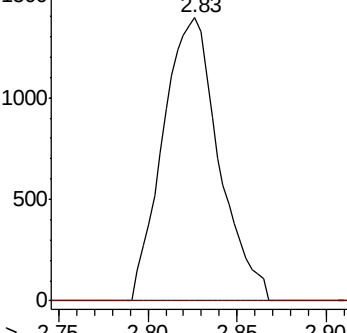
59 100

57 0.0 8.0 12.0#

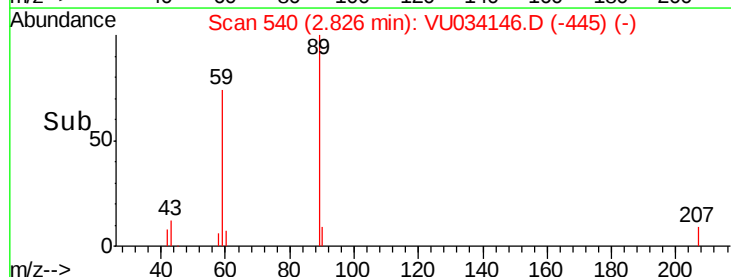


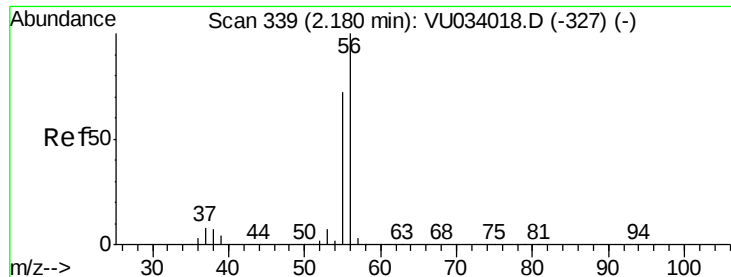
Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



Time-->





#13

Acrolein

Concen: 0.251 ug/l

RT: 2.19 min Scan# 342

Delta R.T. 0.01 min

Lab File: VU034146.D

Acq: 01 Sep 2019 01:23

Instrument :

MSVOA_U

ClientSampleId :

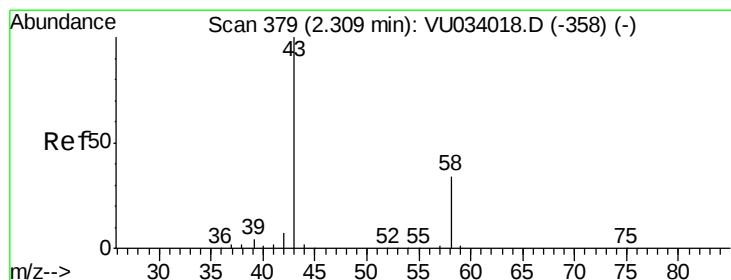
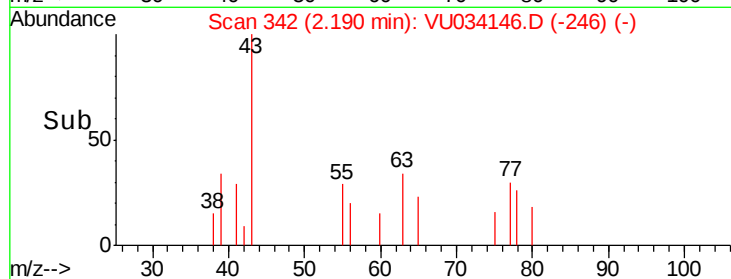
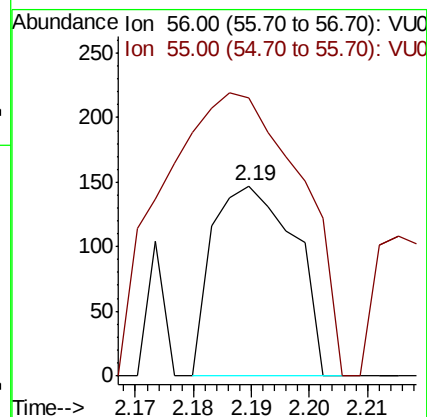
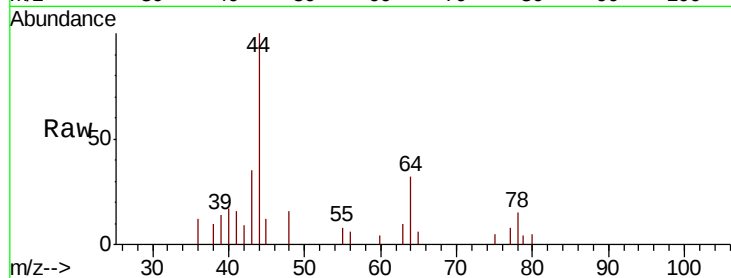
T9-12-13-F3-(0)

Tgt Ion: 56 Resp: 144

Ion Ratio Lower Upper

56 100

55 251.4 57.1 85.7#



#16

Acetone

Concen: 5.576 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034146.D

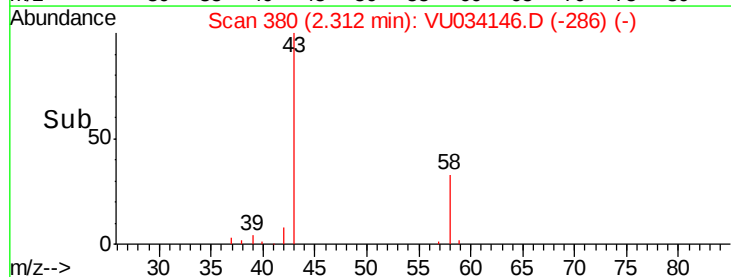
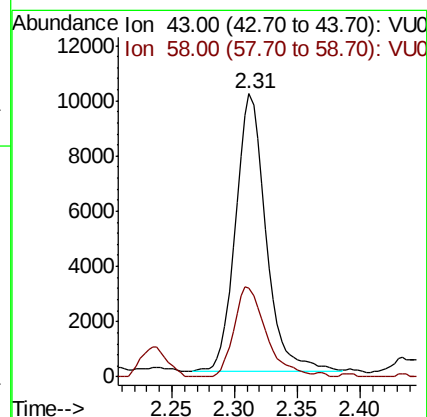
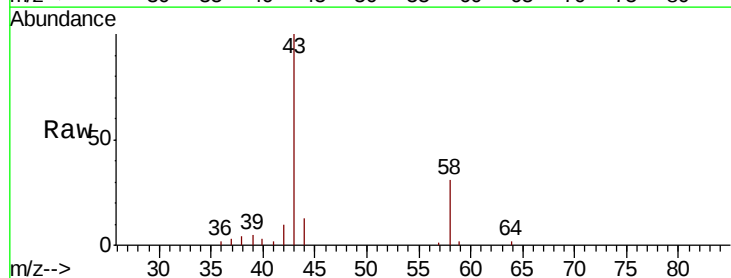
Acq: 01 Sep 2019 01:23

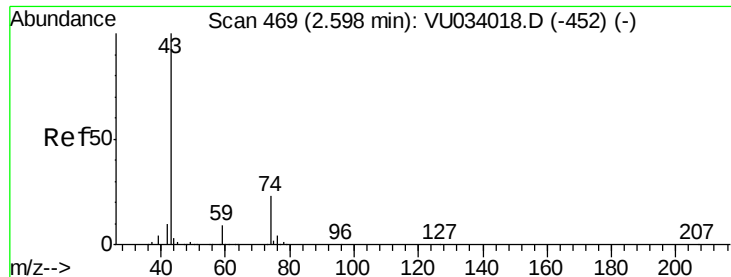
Tgt Ion: 43 Resp: 16831

Ion Ratio Lower Upper

43 100

58 32.1 26.8 40.2

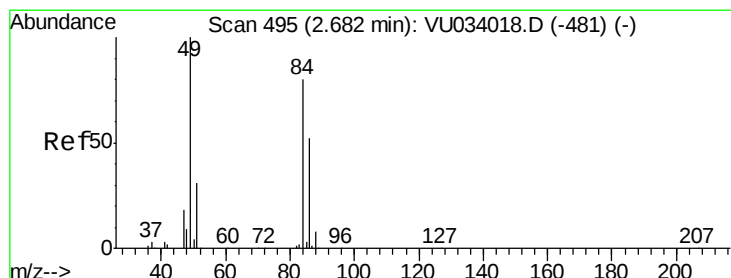
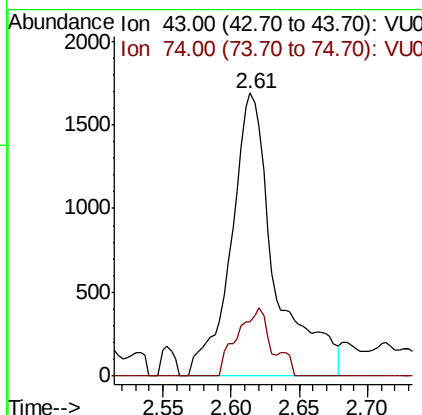
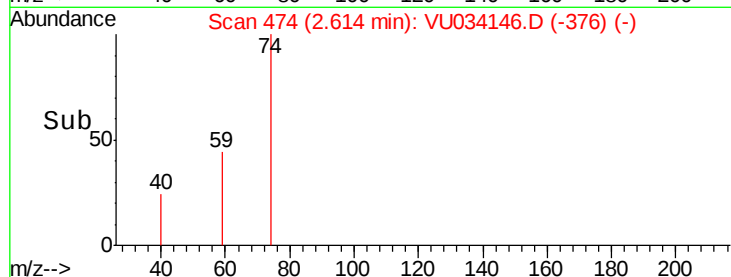
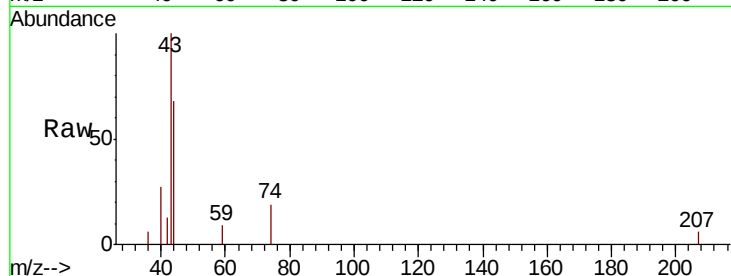




#18
Methyl Acetate
Concen: 0.484 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.02 min
Lab File: VU034146.D
Acq: 01 Sep 2019 01:23

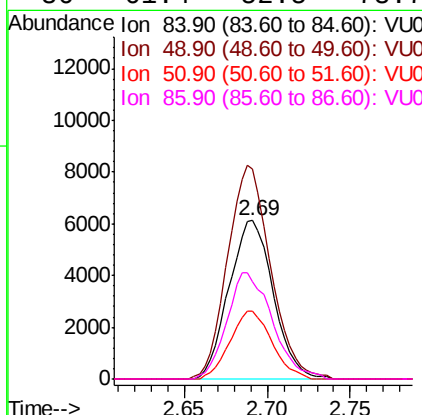
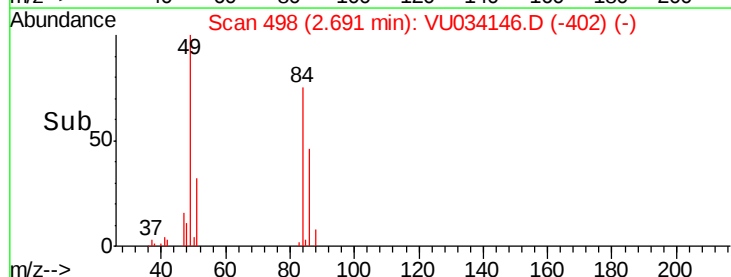
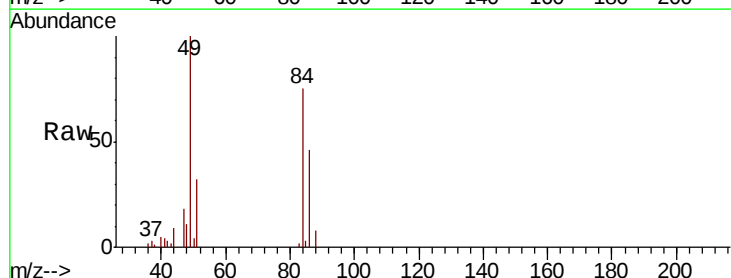
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F3-(0)

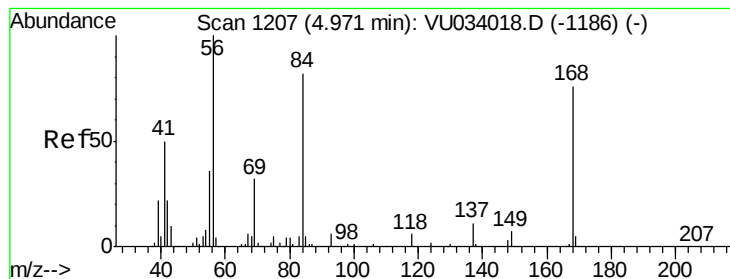
Tgt Ion: 43 Resp: 3775
Ion Ratio Lower Upper
43 100
74 17.0 19.2 28.8#



#20
Methylene Chloride
Concen: 1.987 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034146.D
Acq: 01 Sep 2019 01:23

Tgt Ion: 84 Resp: 11355
Ion Ratio Lower Upper
84 100
49 132.9 100.2 150.4
51 42.9 30.8 46.2
86 61.4 52.5 78.7





#31

Cyclohexane

Concen: 0.969 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VU034146.D

Acq: 01 Sep 2019 01:23

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F3-(0)

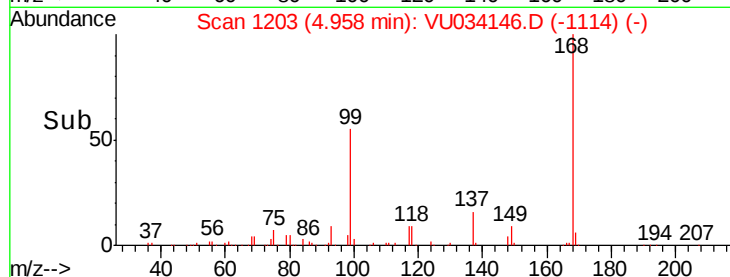
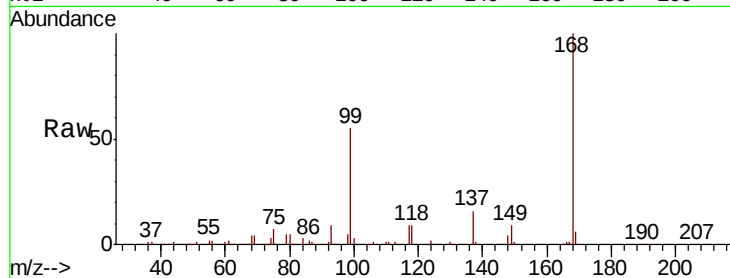
Tgt Ion: 56 Resp: 8557

Ion Ratio Lower Upper

56 100

69 193.9 25.4 38.0#

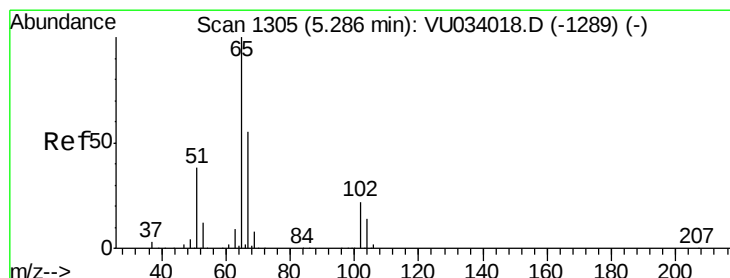
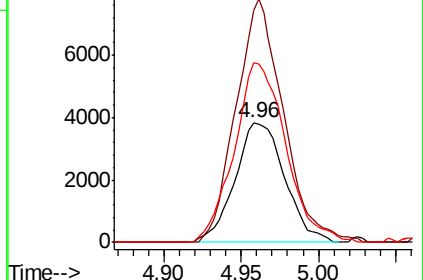
84 150.1 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU034146.D (-1114) (-)

Ion 69.00 (68.70 to 69.70): VU034146.D (-1114) (-)

Ion 84.00 (83.70 to 84.70): VU034146.D (-1114) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.171 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034146.D

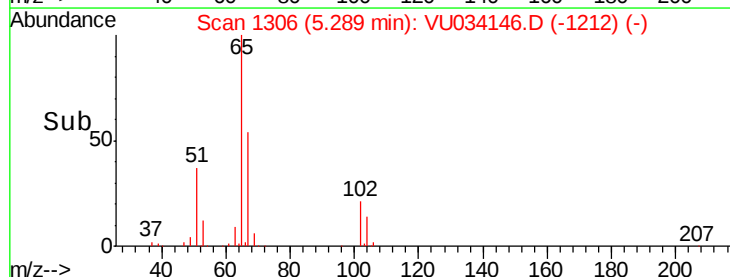
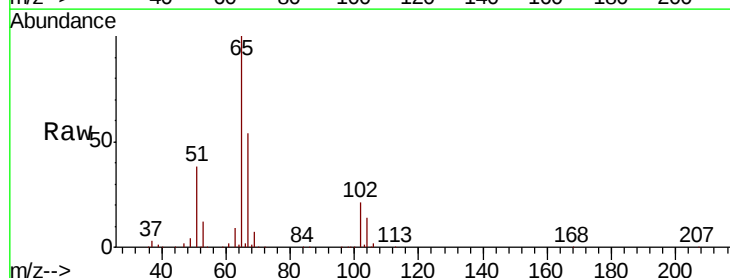
Acq: 01 Sep 2019 01:23

Tgt Ion: 65 Resp: 290906

Ion Ratio Lower Upper

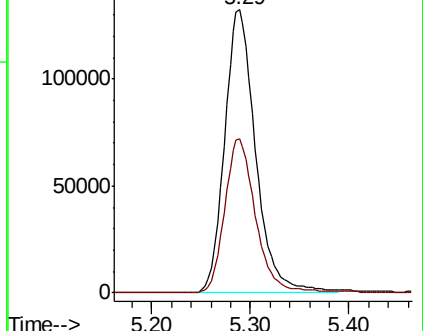
65 100

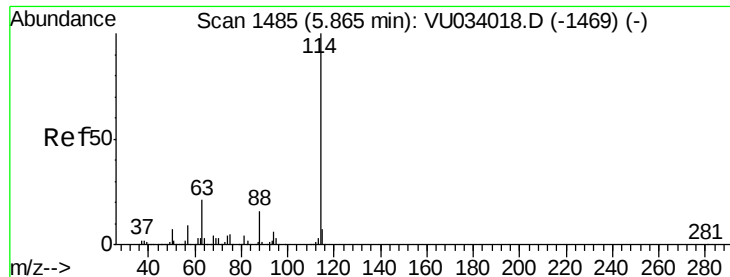
67 54.4 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034146.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034146.D (-1212) (-)

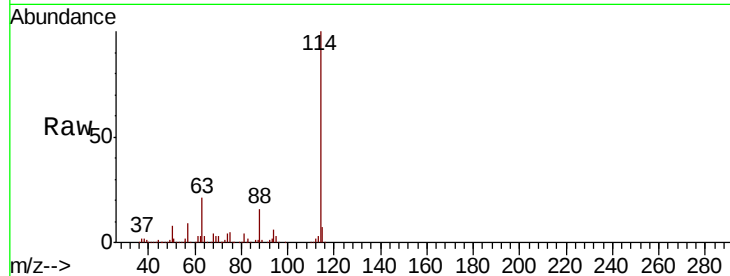




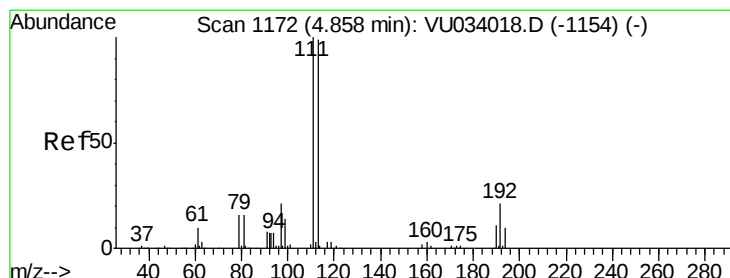
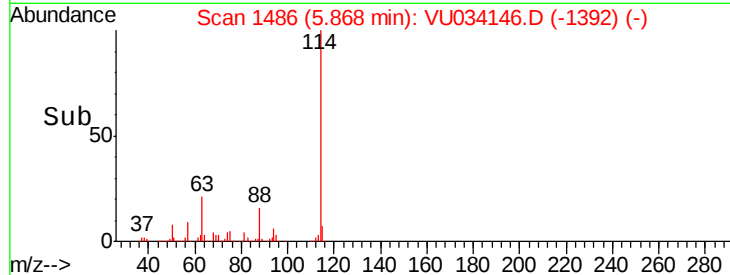
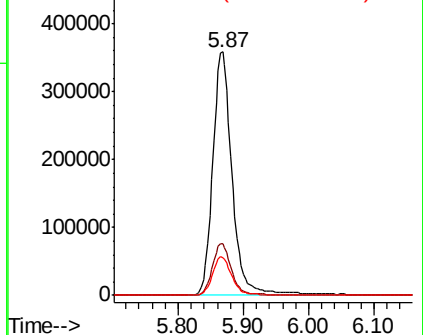
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034146.D
 Acq: 01 Sep 2019 01:23

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F3-(0)

Tgt Ion:114 Resp: 741851
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 42.0
 88 15.7 0.0 32.0

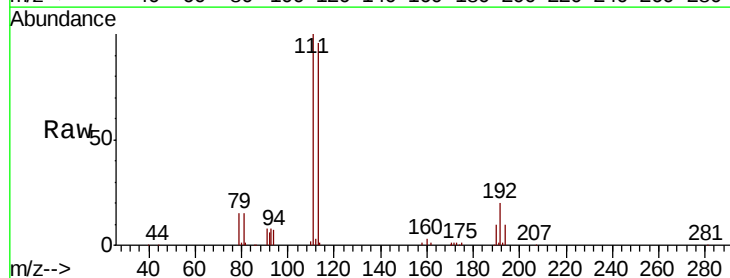


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

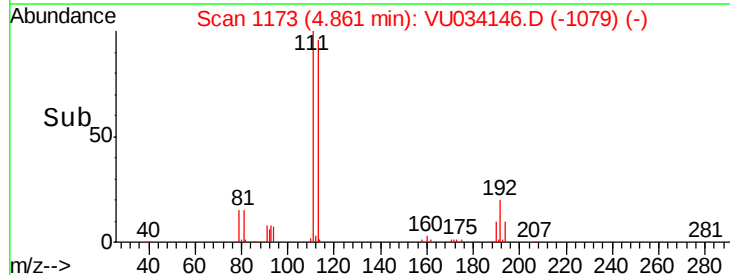
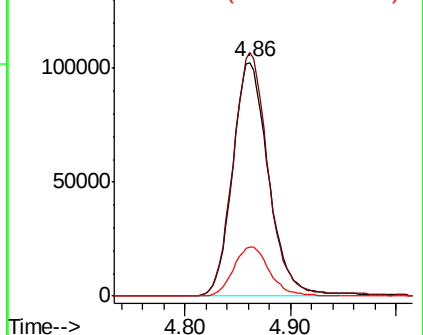


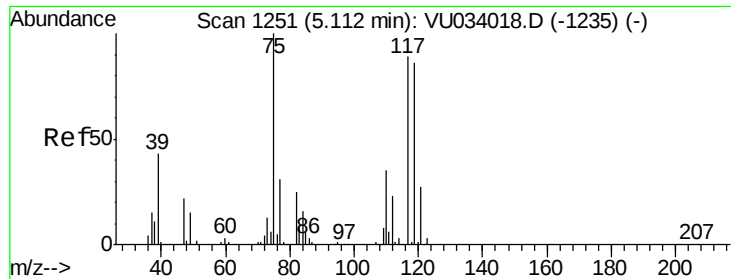
#35
 Dibromofluoromethane
 Concen: 47.023 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034146.D
 Acq: 01 Sep 2019 01:23

Tgt Ion:113 Resp: 241955
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.7 122.5
 192 21.2 17.1 25.7



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

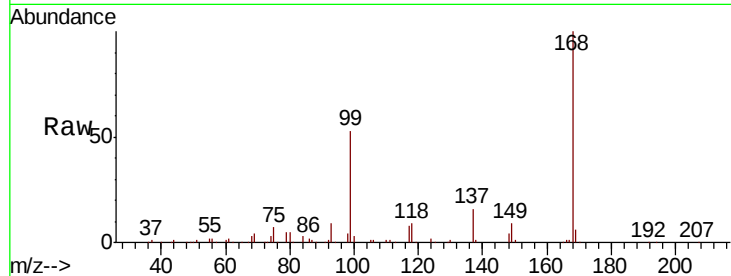




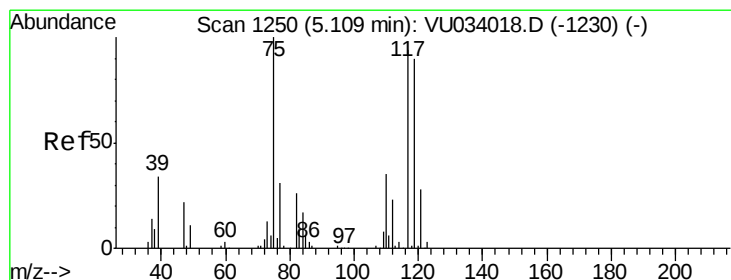
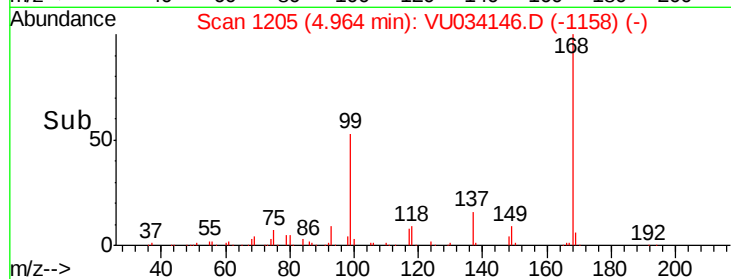
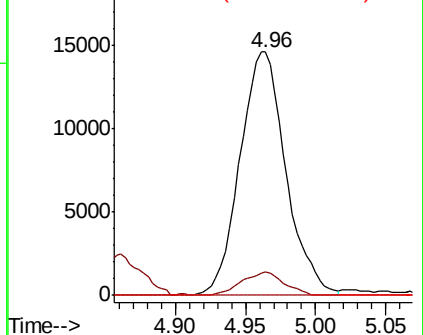
#36
 1,1-Dichloropropene
 Concen: 4.724 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034146.D
 Acq: 01 Sep 2019 01:23

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F3-(0)

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	17.8	53.5#
77	0.0	25.0	37.4#

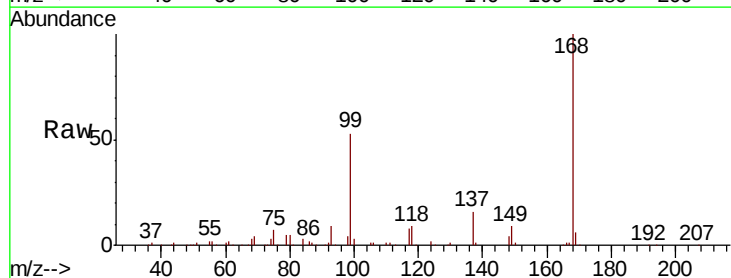


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

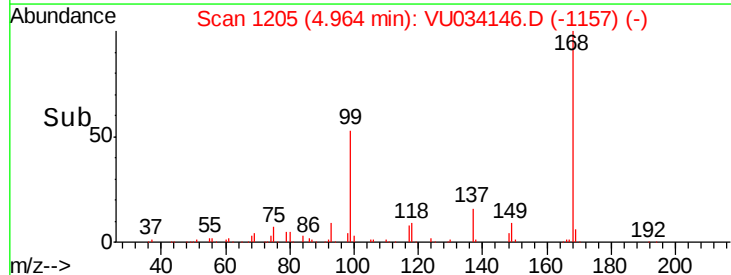
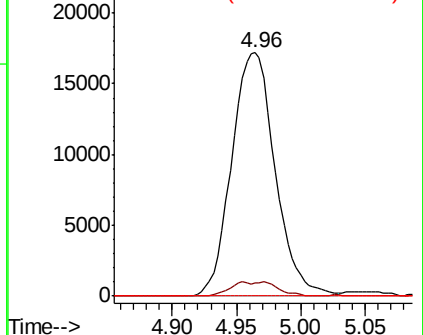


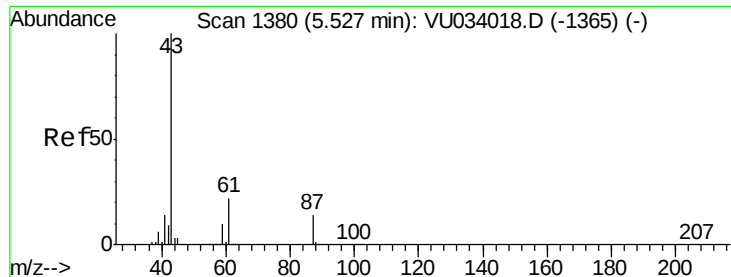
#38
 Carbon Tetrachloride
 Concen: 5.943 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.14 min
 Lab File: VU034146.D
 Acq: 01 Sep 2019 01:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	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

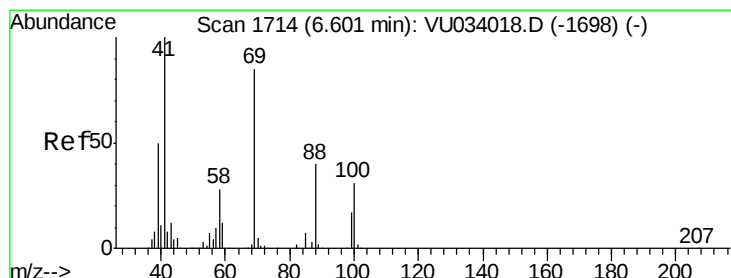
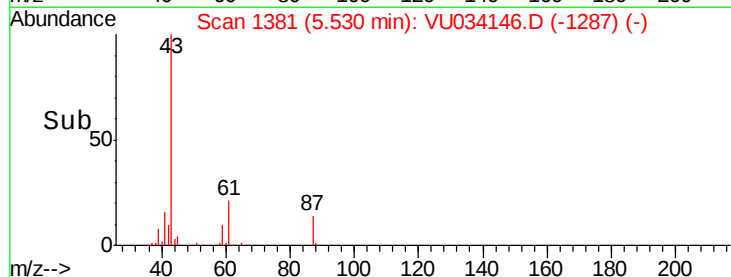
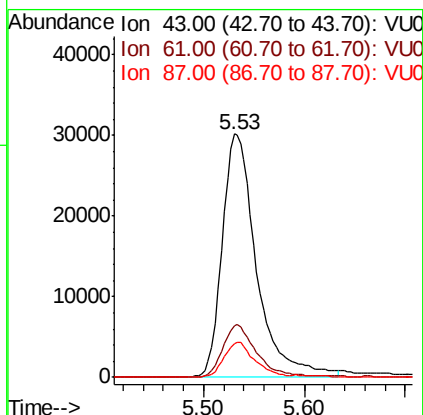
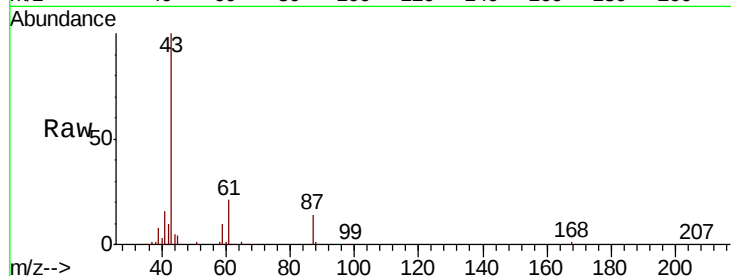




#43
Isopropyl Acetate
Concen: 6.000 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034146.D
Acq: 01 Sep 2019 01:23

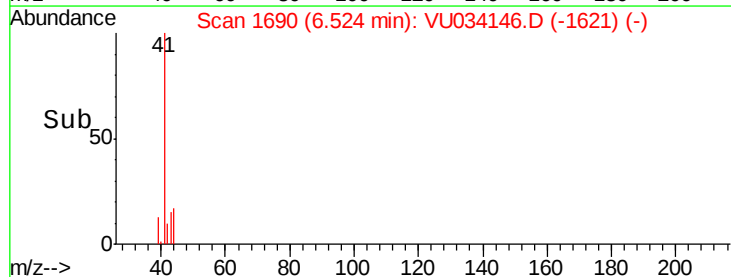
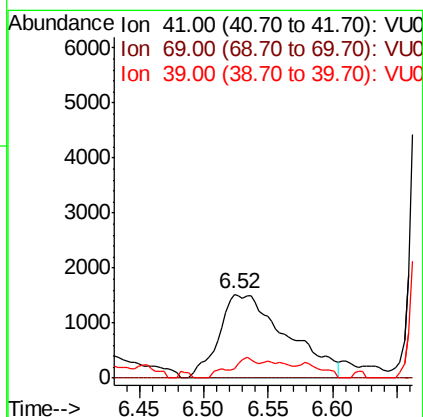
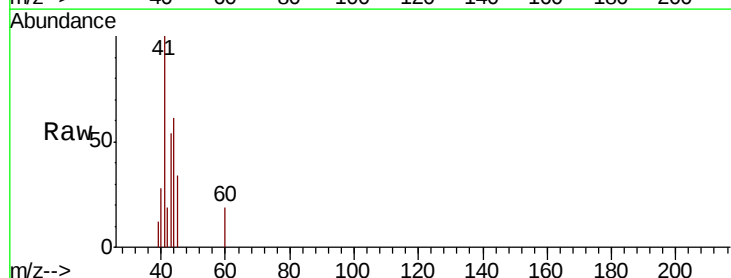
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F3-(0)

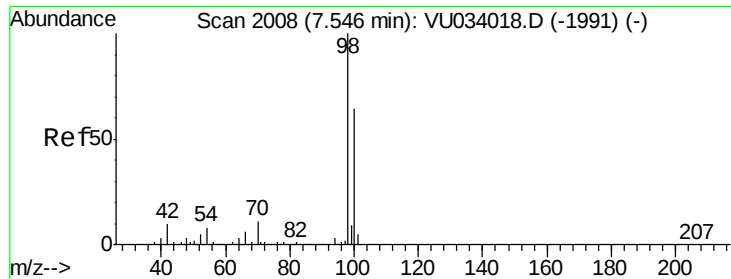
Tgt Ion: 43 Resp: 71722
Ion Ratio Lower Upper
43 100
61 21.2 17.2 25.8
87 13.0 10.8 16.2



#48
Methyl methacrylate
Concen: 0.957 ug/l
RT: 6.52 min Scan# 1690
Delta R.T. -0.08 min
Lab File: VU034146.D
Acq: 01 Sep 2019 01:23

Tgt Ion: 41 Resp: 5521
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#





#50

Toluene-d8

Concen: 49.570 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034146.D

Acq: 01 Sep 2019 01:23

Instrument :

MSVOA_U

ClientSampleId :

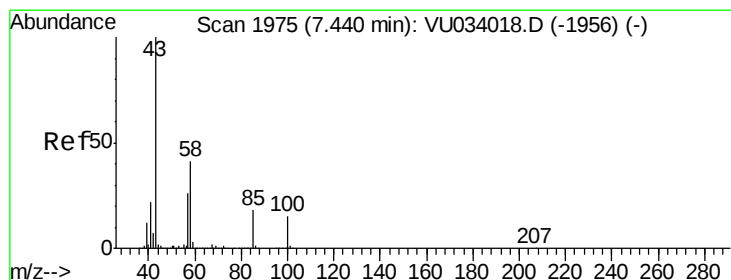
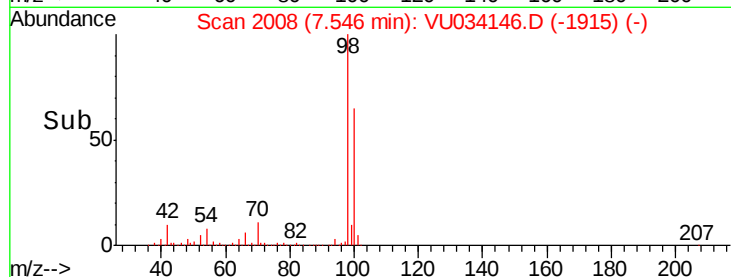
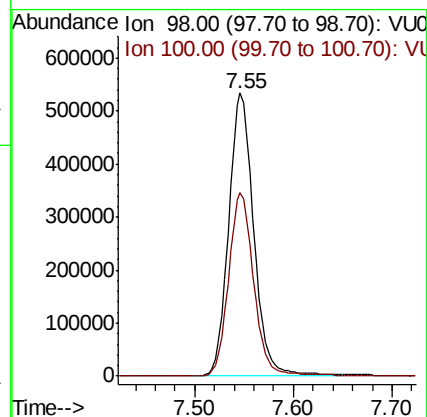
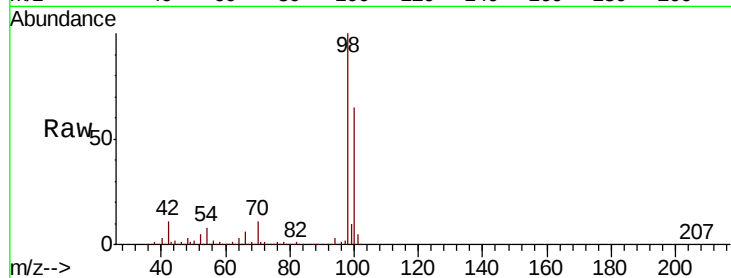
T9-12-13-F3-(0)

Tgt Ion: 98 Resp: 955030

Ion Ratio Lower Upper

98 100

100 65.1 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 8.554 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034146.D

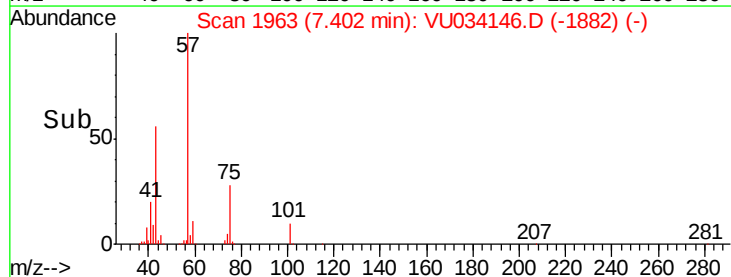
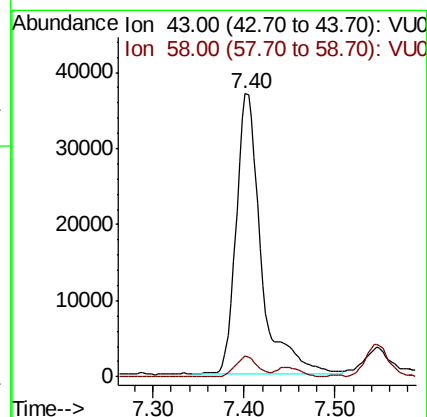
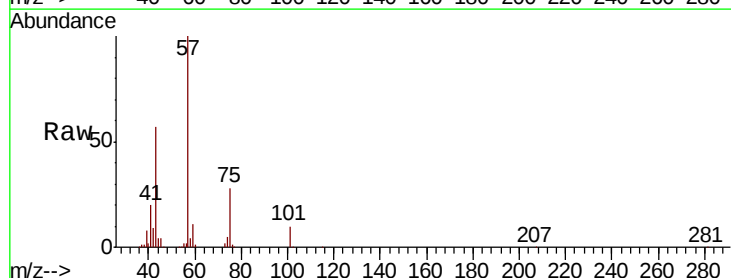
Acq: 01 Sep 2019 01:23

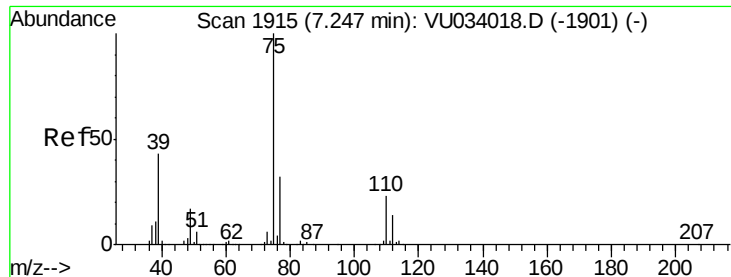
Tgt Ion: 43 Resp: 70622

Ion Ratio Lower Upper

43 100

58 6.7 32.2 48.4#



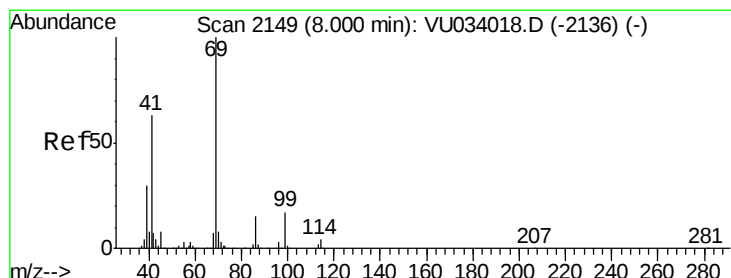
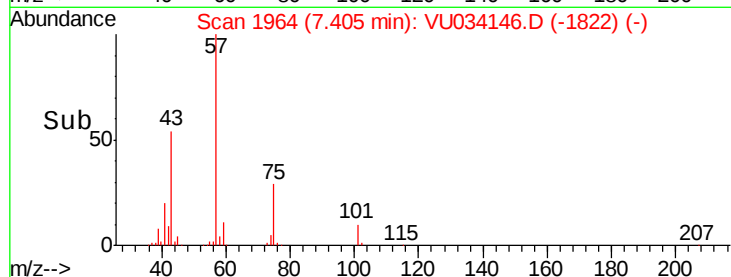
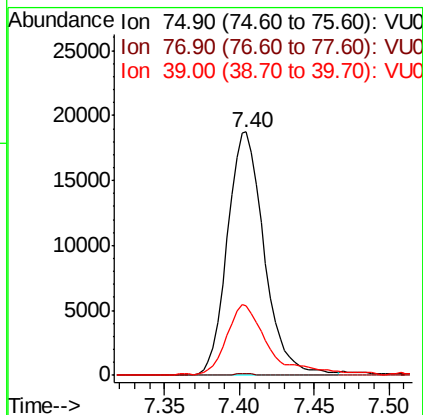
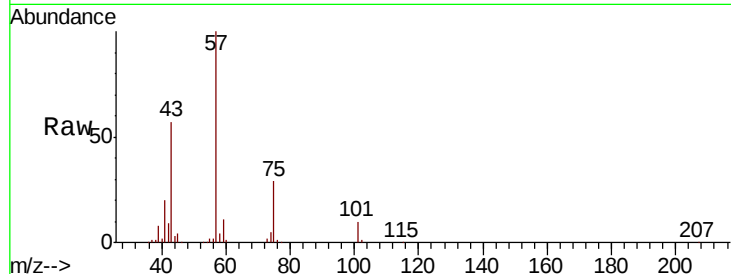


#54

cis-1,3-Dichloropropene
 Concen: 3.601 ug/l
 RT: 7.40 min Scan# 1964
 Delta R.T. 0.16 min
 Lab File: VU034146.D
 Acq: 01 Sep 2019 01:23

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F3-(0)

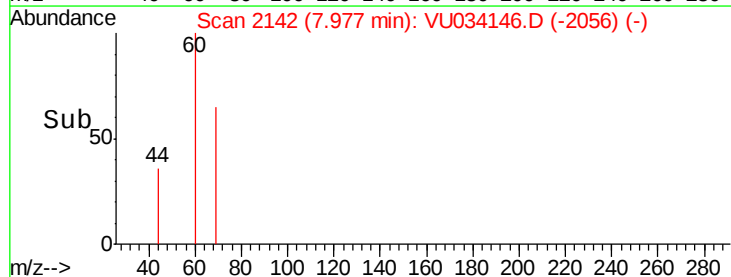
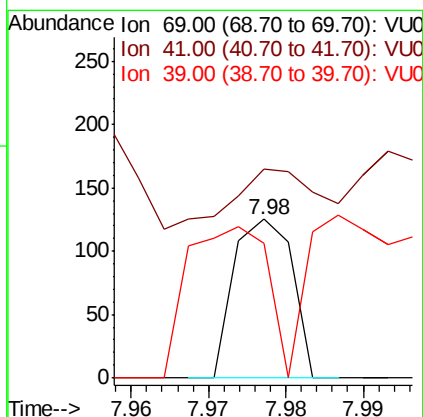
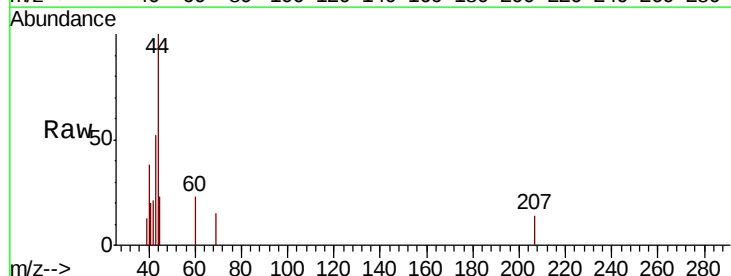
Tgt Ion: 75 Resp: 32153
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.2 37.8#
 39 28.1 34.6 51.8#

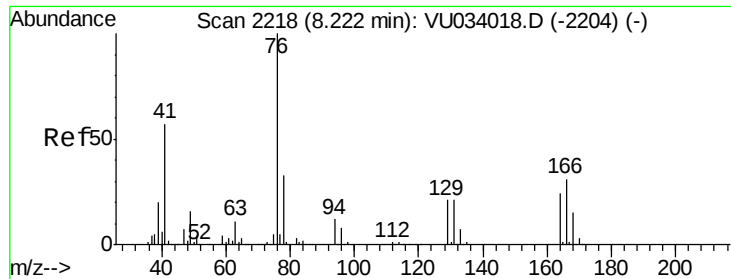


#56

Ethyl methacrylate
 Concen: 0.979 ug/l
 RT: 7.98 min Scan# 2142
 Delta R.T. -0.02 min
 Lab File: VU034146.D
 Acq: 01 Sep 2019 01:23

Tgt Ion: 69 Resp: 66
 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: 0.553 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034146.D

Acq: 01 Sep 2019 01:23

Instrument :

MSVOA_U

ClientSampleId :

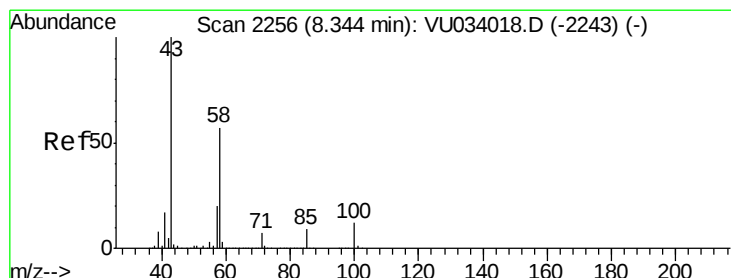
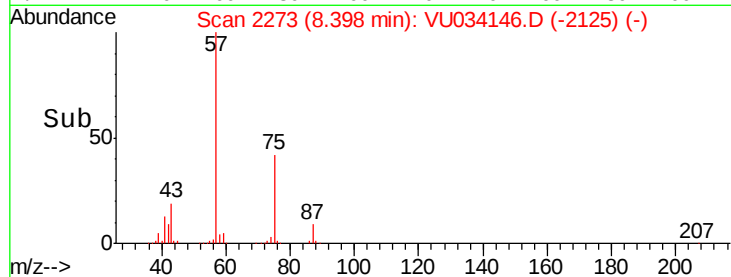
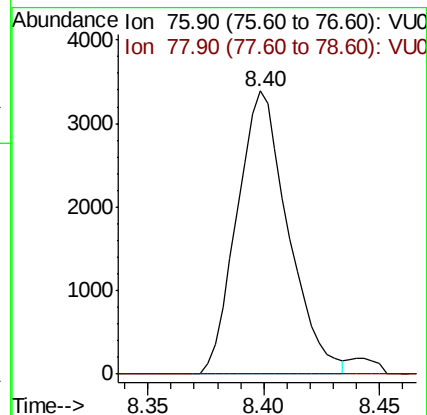
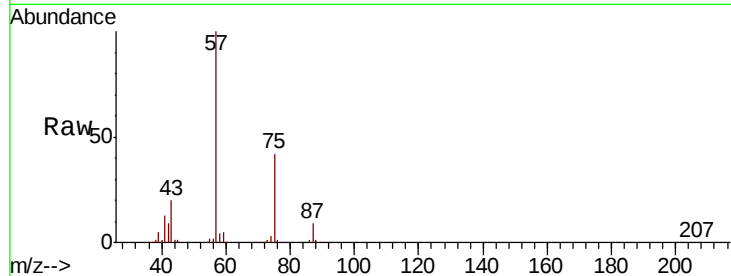
T9-12-13-F3-(0)

Tgt Ion: 76 Resp: 5199

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 11.938 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034146.D

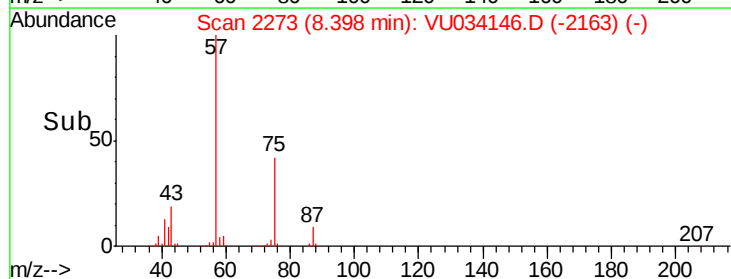
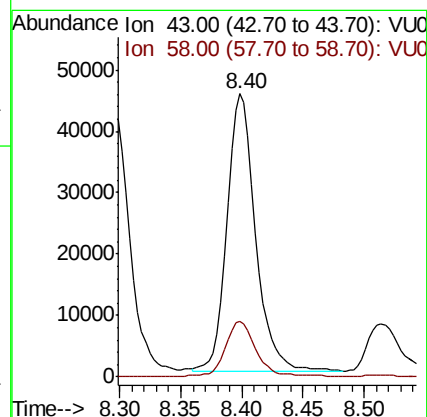
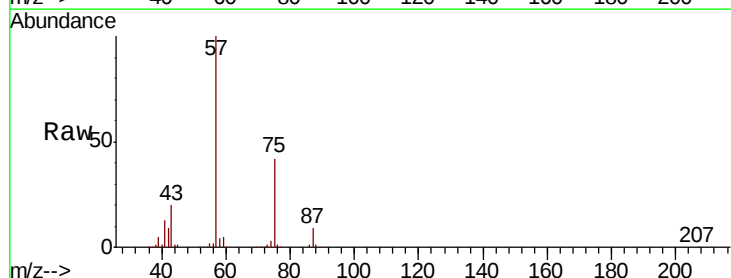
Acq: 01 Sep 2019 01:23

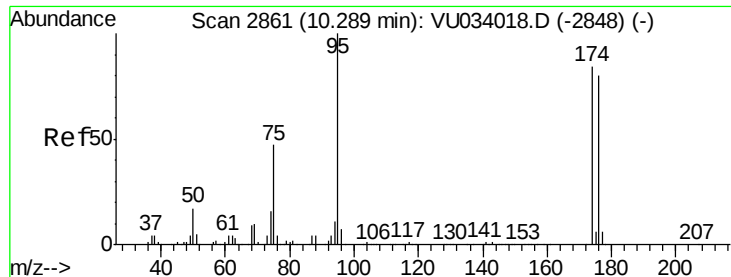
Tgt Ion: 43 Resp: 74401

Ion Ratio Lower Upper

43 100

58 21.8 28.4 85.3#

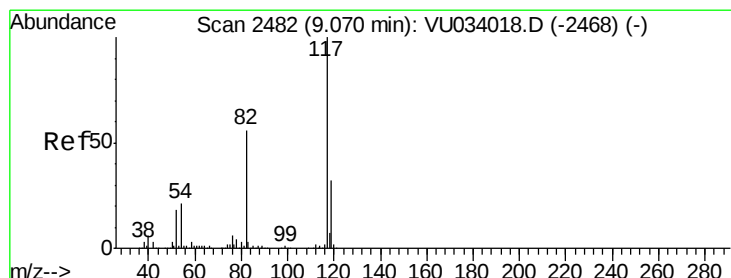
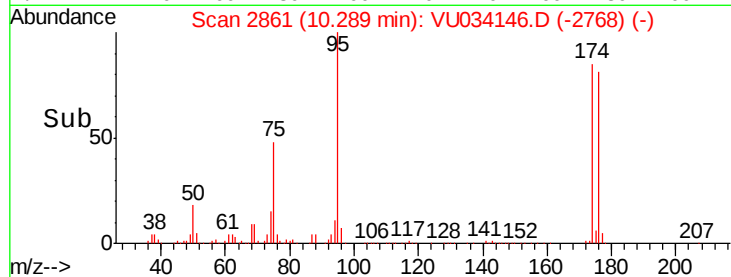
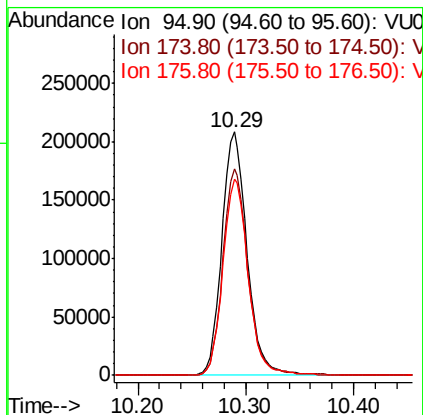
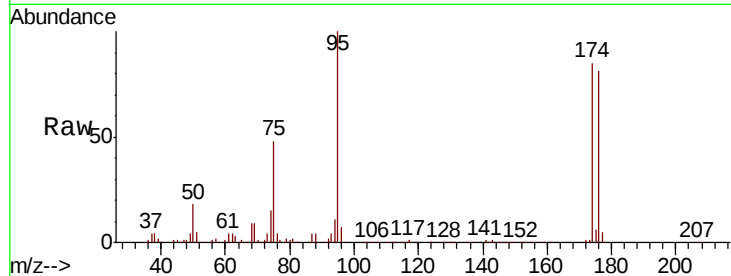




#62
4-Bromofluorobenzene
Concen: 45.226 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034146.D
Acq: 01 Sep 2019 01:23

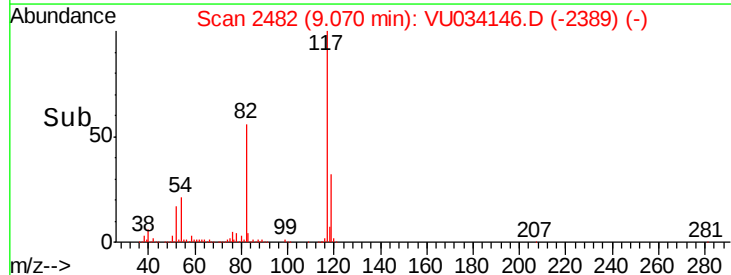
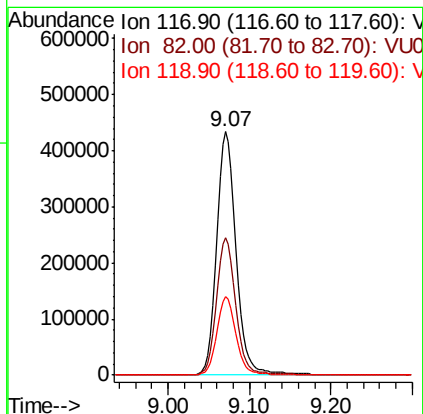
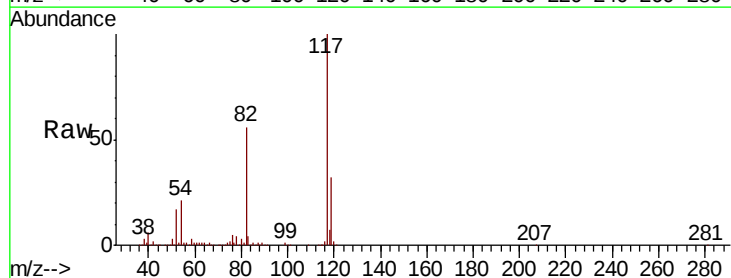
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F3-(0)

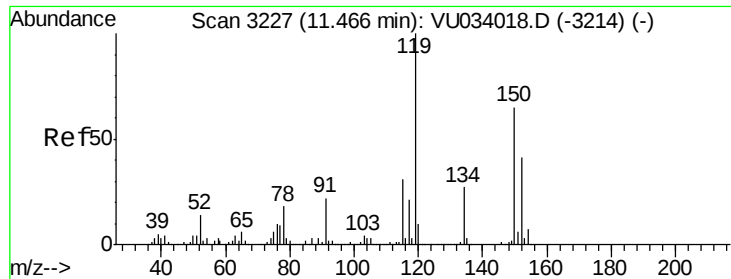
Tgt Ion: 95 Resp: 338940
Ion Ratio Lower Upper
95 100
174 84.4 0.0 168.8
176 81.0 0.0 161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034146.D
Acq: 01 Sep 2019 01:23

Tgt Ion: 117 Resp: 734605
Ion Ratio Lower Upper
117 100
82 56.4 45.1 67.7
119 32.3 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.47 min Scan# 3227

Delta R.T. -0.00 min

Lab File: VU034146.D

Acq: 01 Sep 2019 01:23

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F3-(0)

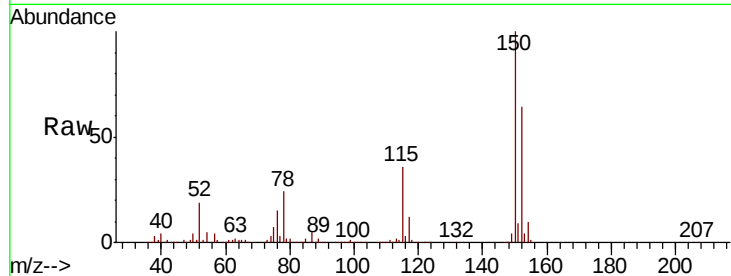
Tgt Ion:152 Resp: 362603

Ion Ratio Lower Upper

152 100

115 57.3 41.1 123.3

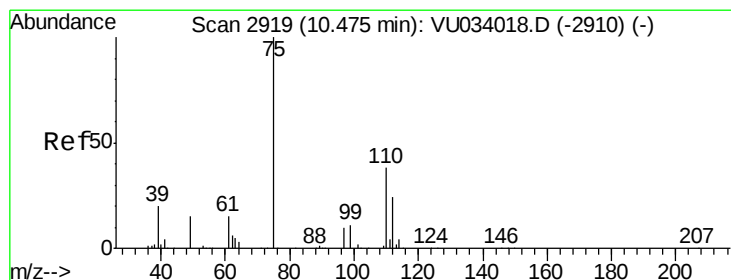
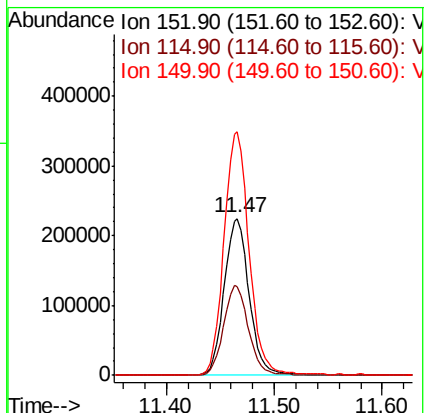
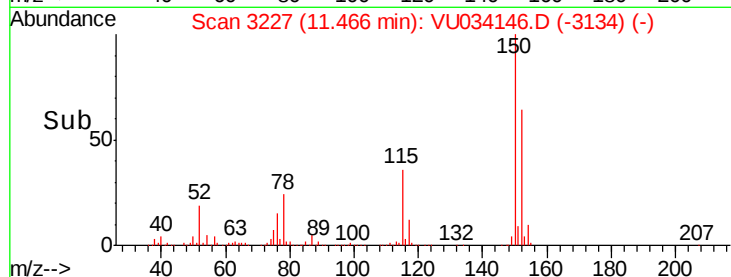
150 156.2 0.0 348.8



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



#76

1,2,3-Trichloropropane

Concen: 19.884 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034146.D

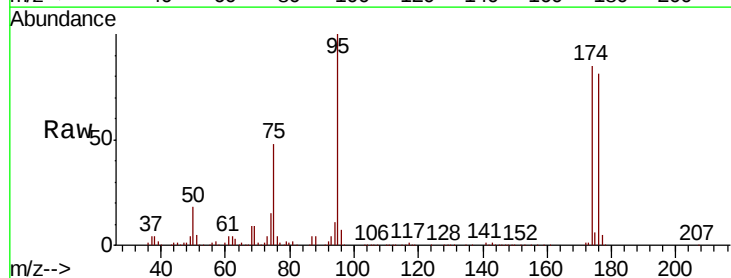
Acq: 01 Sep 2019 01:23

Tgt Ion: 75 Resp: 162502

Ion Ratio Lower Upper

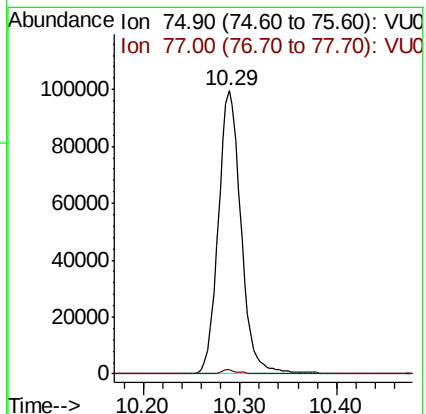
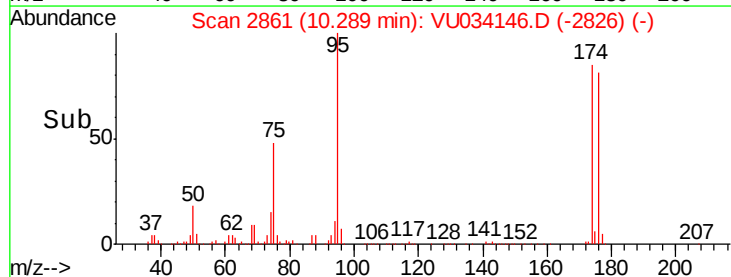
75 100

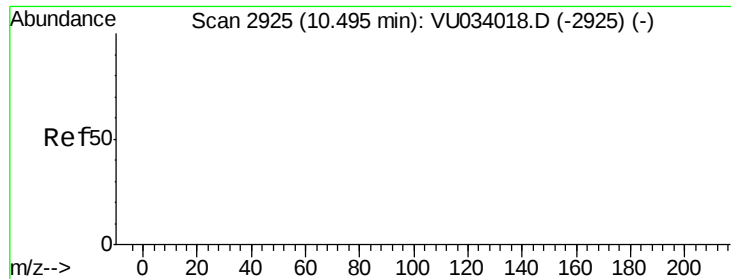
77 1.1 20.1 60.2#



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: 66.955 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034146.D

Acq: 01 Sep 2019 01:23

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F3-(0)

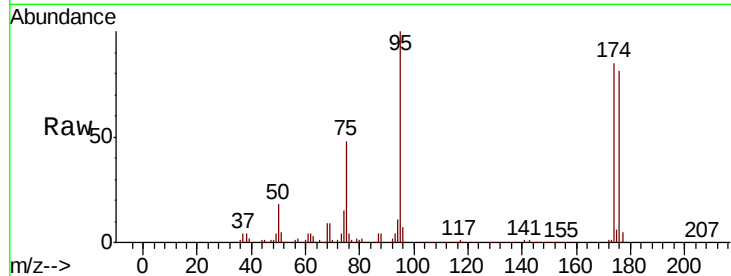
Tgt Ion: 75 Resp: 162502

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

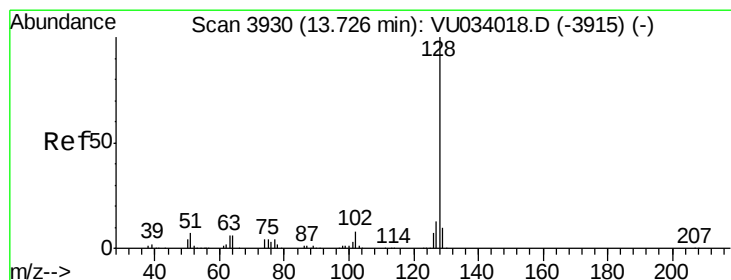
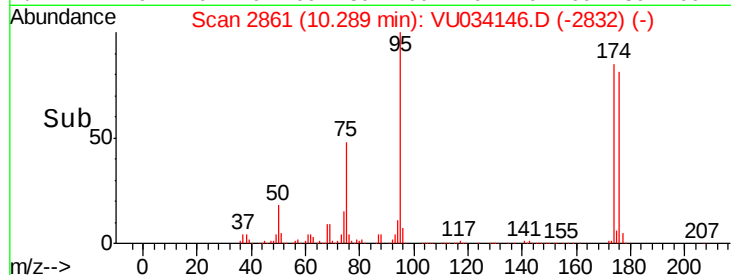
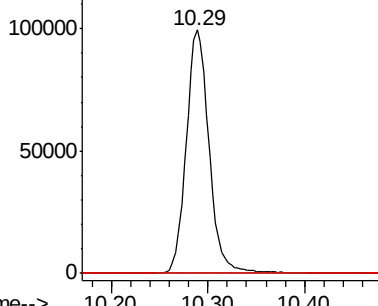
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-2925) (-)

Ion 53.00 (52.70 to 53.70): VU034018.D (-2925) (-)

Ion 88.90 (88.60 to 89.60): VU034018.D (-2925) (-)



#95

Naphthalene

Concen: 1.791 ug/l

RT: 13.79 min Scan# 3950

Delta R.T. 0.06 min

Lab File: VU034146.D

Acq: 01 Sep 2019 01:23

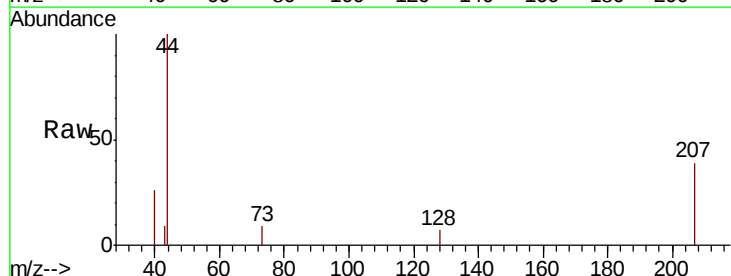
Tgt Ion: 128 Resp: 20

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): VU034018.D (-3915) (-)

Ion 127.00 (126.70 to 127.70): VU034018.D (-3915) (-)

Ion 129.00 (128.70 to 129.70): VU034018.D (-3915) (-)

