

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
 Data File : VU034144.D
 Acq On : 01 Sep 2019 00:36
 Operator : JC/SP
 Sample : K4526-26
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F1-(0)

Quant Time: Sep 01 04:53:16 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	454395	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	742245	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	734425	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	361945	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	289204	49.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.34%	
35) Dibromofluoromethane	4.86	113	240875	46.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.58%	
50) Toluene-d8	7.55	98	965378	50.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.16%	
62) 4-Bromofluorobenzene	10.29	95	340797	45.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.90%	

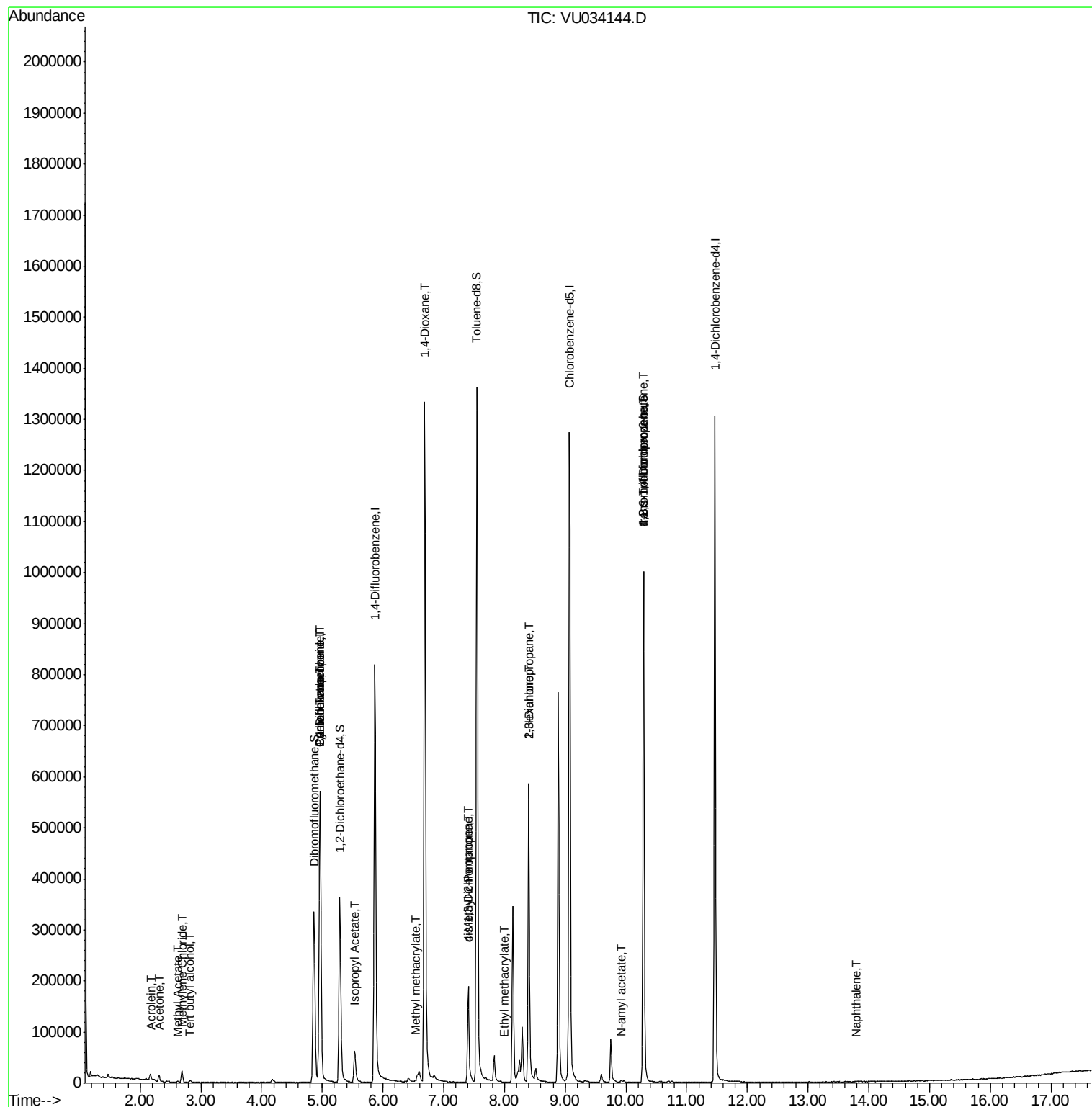
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	585	Below Cal		90
5) Bromomethane	1.63	94	782	Below Cal	#	77
11) Tert butyl alcohol	2.82	59	3037	2.262	ug/l #	73
13) Acrolein	2.18	56	248	0.439	ug/l	94
16) Acetone	2.31	43	14590	4.911	ug/l	98
18) Methyl Acetate	2.61	43	3595	0.468	ug/l #	86
20) Methylene Chloride	2.69	84	9510	1.691	ug/l	91
31) Cyclohexane	4.96	56	8309	0.956	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	32806	4.673	ug/l #	49
38) Carbon Tetrachloride	4.96	117	41065	6.060	ug/l #	16
43) Isopropyl Acetate	5.53	43	75575	6.319	ug/l	100
48) Methyl methacrylate	6.53	41	4883	0.846	ug/l #	14
49) 1,4-Dioxane	6.68	88	147	1.017	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	67702	8.196	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	35001	3.917	ug/l #	65
56) Ethyl methacrylate	7.99	69	129	0.985	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	5869	0.624	ug/l #	42
59) 2-Hexanone	8.40	43	80129	12.850	ug/l #	55
74) N-amyl acetate	9.92	43	2352	0.230	ug/l #	42
76) 1,2,3-Trichloropropane	10.29	75	164062	20.112	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	164062	67.720	ug/l #	100
95) Naphthalene	13.79	128	217	1.799	ug/l #	70

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034144.D

Acq: 01 Sep 2019 00:36

Instrument :

MSVOA_U

ClientSampleId :

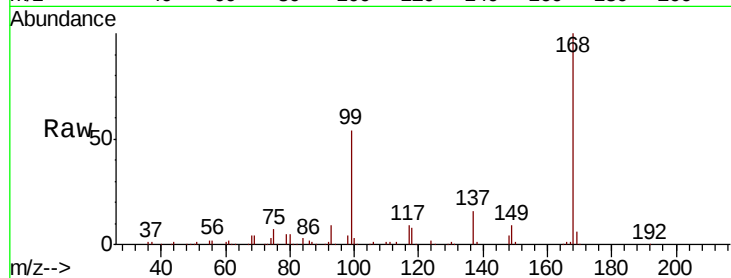
T9-12-13-F1-(0)

Tgt Ion:168 Resp: 454395

Ion Ratio Lower Upper

168 100

99 53.7 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

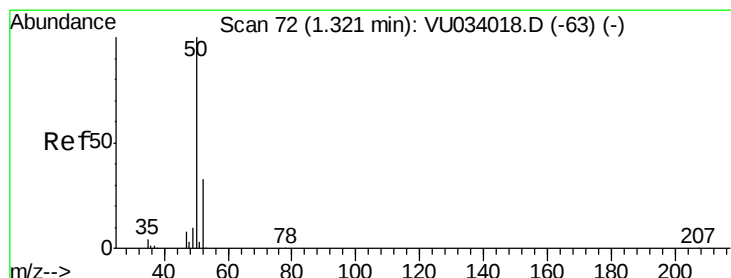
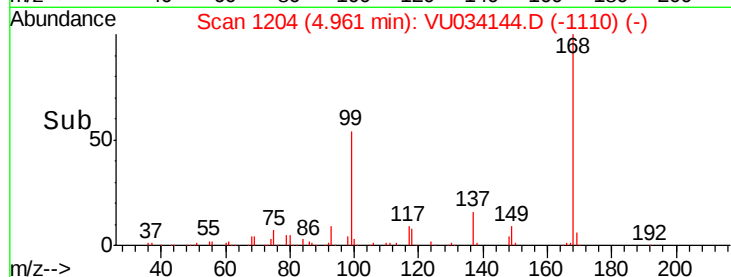
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034144.D

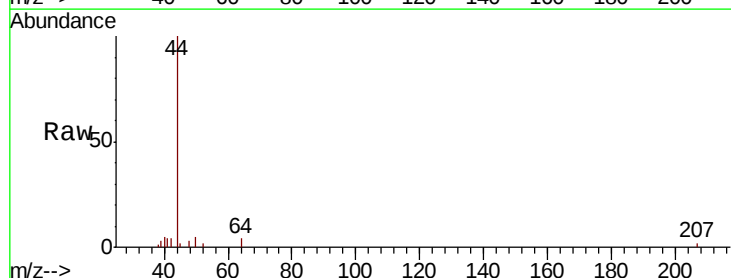
Acq: 01 Sep 2019 00:36

Tgt Ion: 50 Resp: 585

Ion Ratio Lower Upper

50 100

52 38.3 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.32

600

500

400

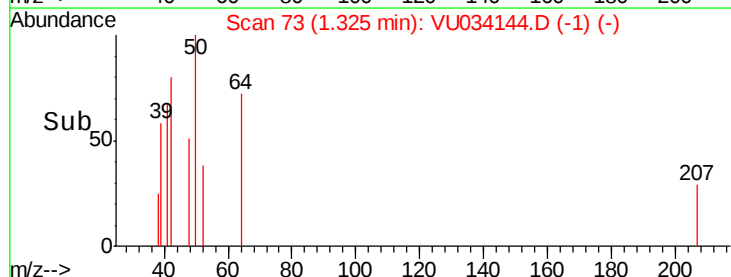
300

200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.04 min

Lab File: VU034144.D

Acq: 01 Sep 2019 00:36

Instrument :

MSVOA_U

ClientSampleId :

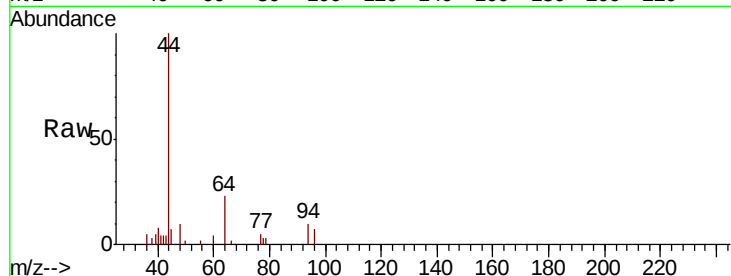
T9-12-13-F1-(0)

Tgt Ion: 94 Resp: 782

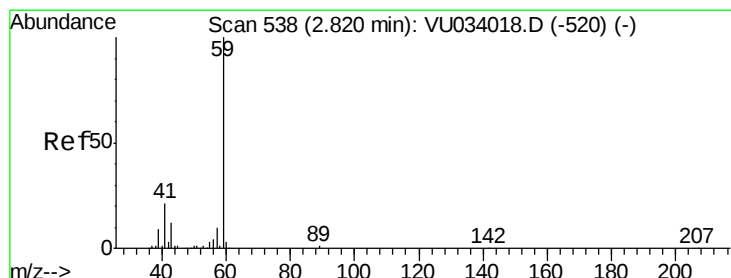
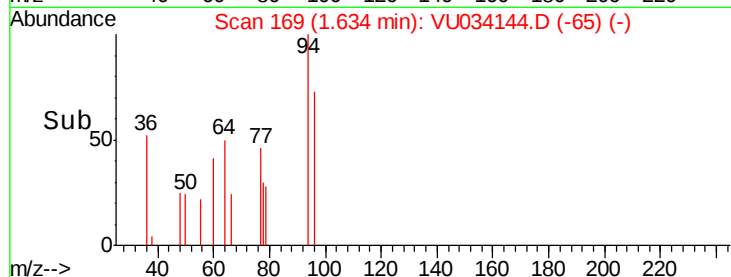
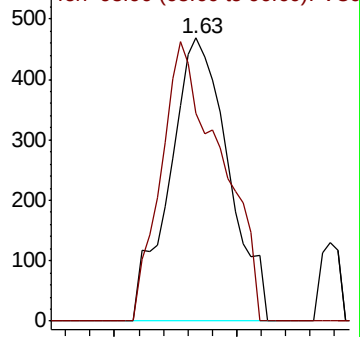
Ion Ratio Lower Upper

94 100

96 73.3 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034018.D (-143) (-)



#11

Tert butyl alcohol

Concen: 2.262 ug/l

RT: 2.82 min Scan# 537

Delta R.T. -0.00 min

Lab File: VU034144.D

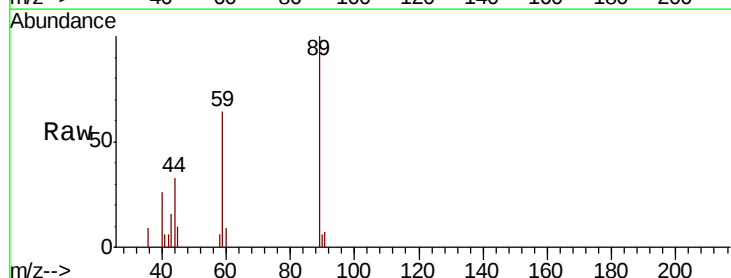
Acq: 01 Sep 2019 00:36

Tgt Ion: 59 Resp: 3037

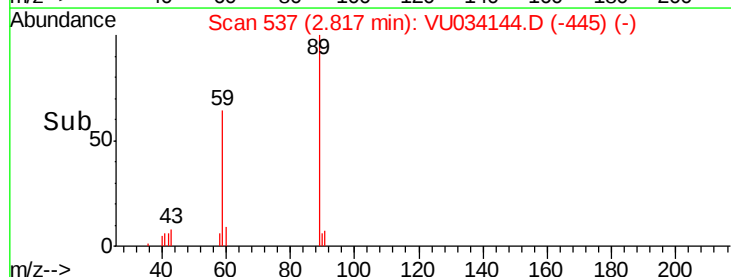
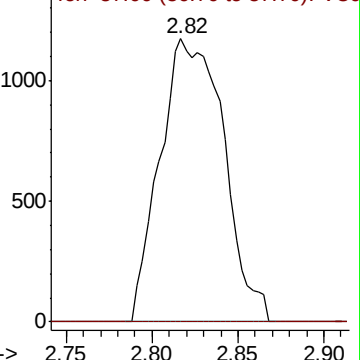
Ion Ratio Lower Upper

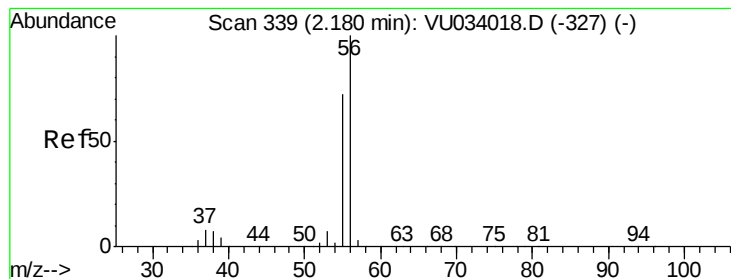
59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034018.D (-520) (-)





#13

Acrolein

Concen: 0.439 ug/l

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VU034144.D

Acq: 01 Sep 2019 00:36

Instrument :

MSVOA_U

ClientSampleId :

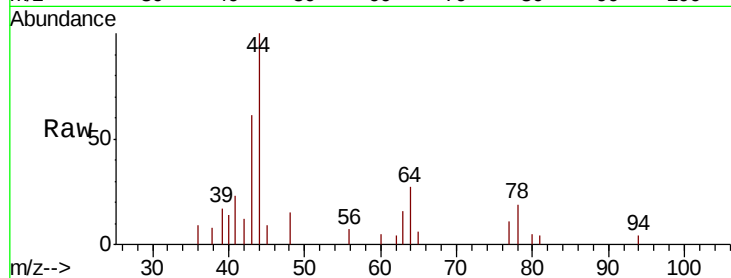
T9-12-13-F1-(0)

Tgt Ion: 56 Resp: 248

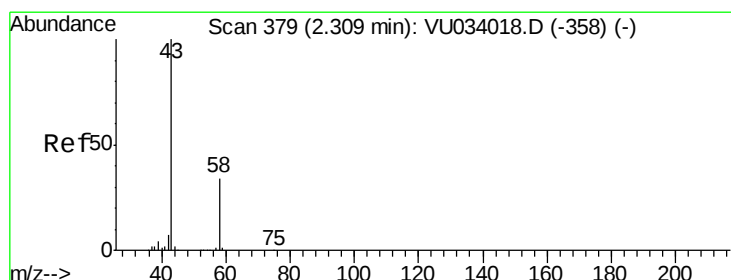
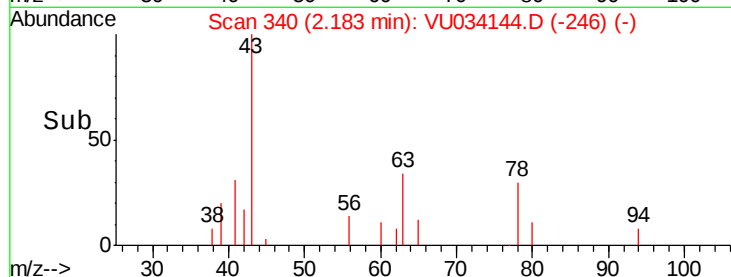
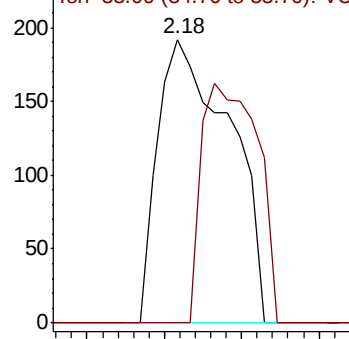
Ion Ratio Lower Upper

56 100

55 66.1 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VU034018.D (-327) (-)



#16

Acetone

Concen: 4.911 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034144.D

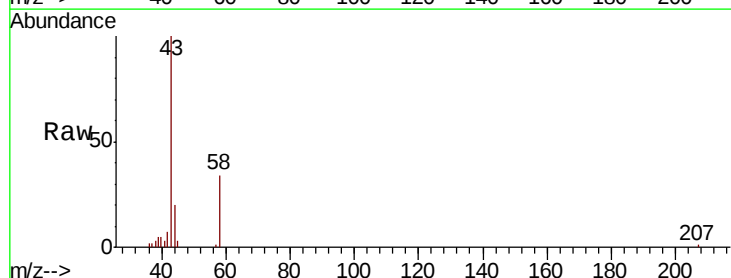
Acq: 01 Sep 2019 00:36

Tgt Ion: 43 Resp: 14590

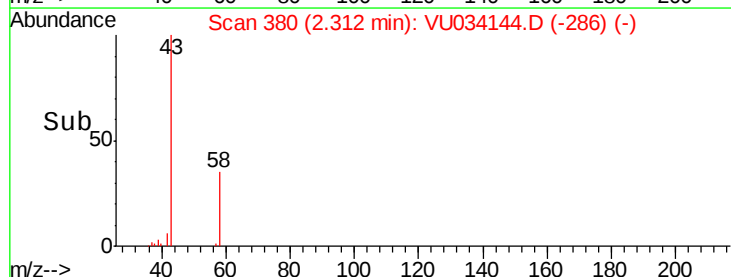
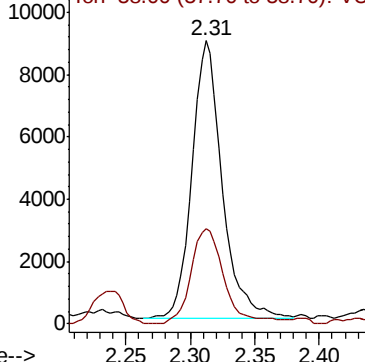
Ion Ratio Lower Upper

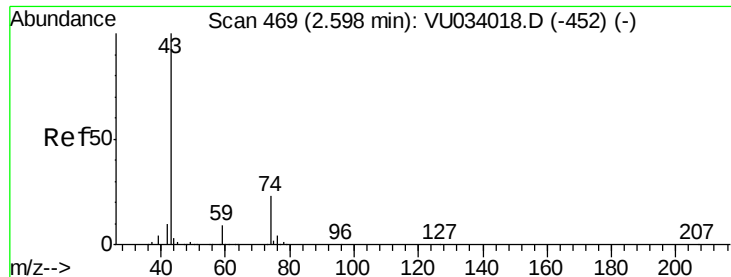
43 100

58 34.4 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-358) (-)

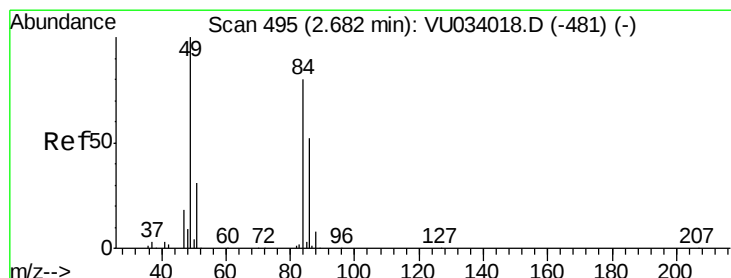
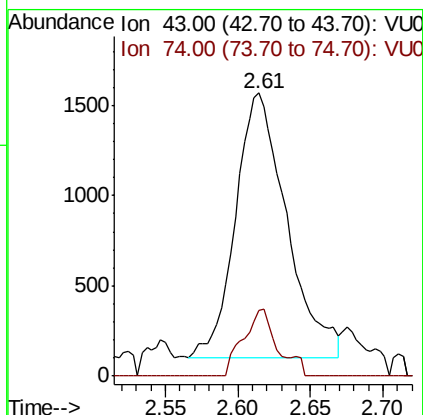
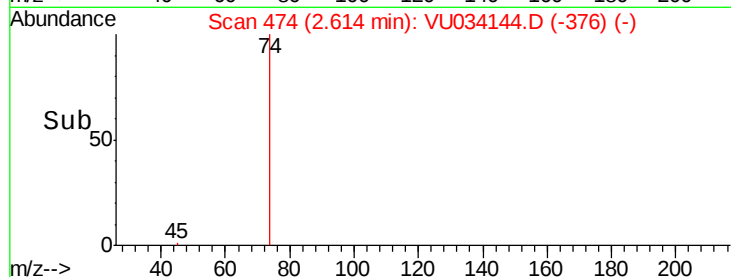
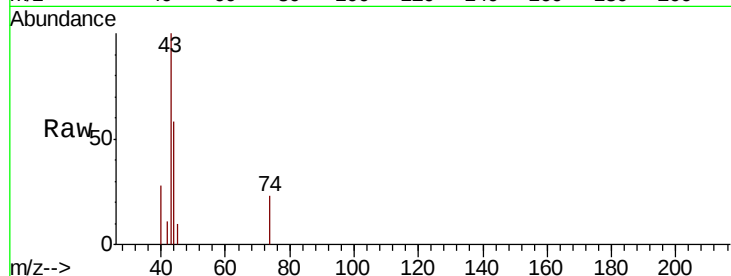




#18
Methyl Acetate
Concen: 0.468 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.02 min
Lab File: VU034144.D
Acq: 01 Sep 2019 00:36

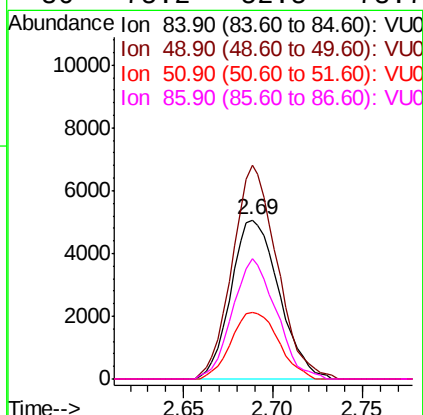
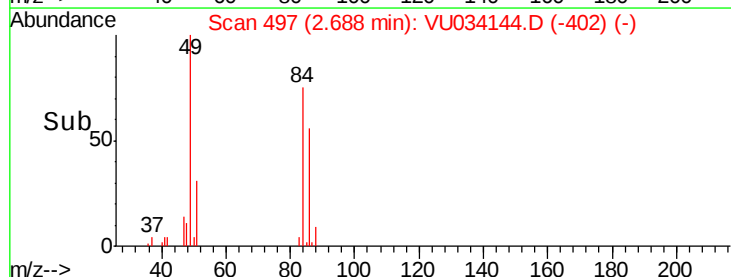
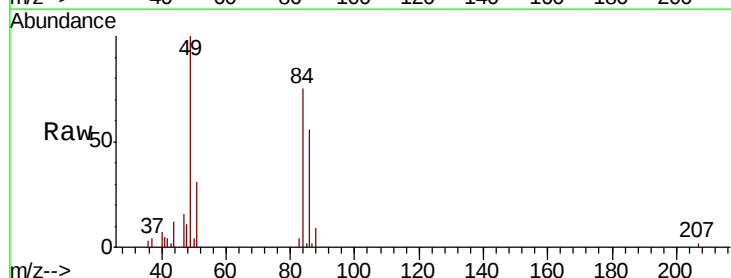
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F1-(0)

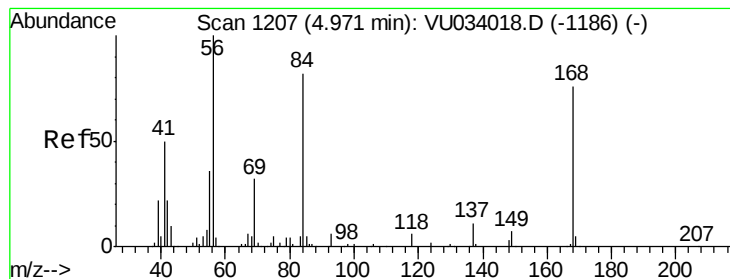
Tgt Ion: 43 Resp: 3595
Ion Ratio Lower Upper
43 100
74 17.0 19.2 28.8#



#20
Methylene Chloride
Concen: 1.691 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034144.D
Acq: 01 Sep 2019 00:36

Tgt Ion: 84 Resp: 9510
Ion Ratio Lower Upper
84 100
49 134.1 100.2 150.4
51 41.9 30.8 46.2
86 75.2 52.5 78.7





#31

Cyclohexane

Concen: 0.956 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VU034144.D

Acq: 01 Sep 2019 00:36

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F1-(0)

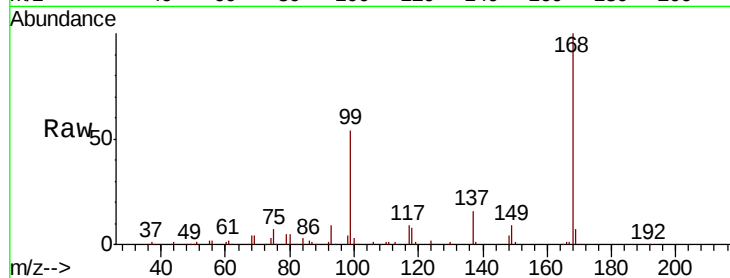
Tgt Ion: 56 Resp: 8309

Ion Ratio Lower Upper

56 100

69 190.9 25.4 38.0#

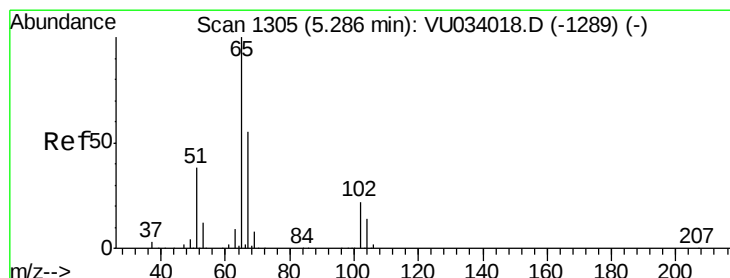
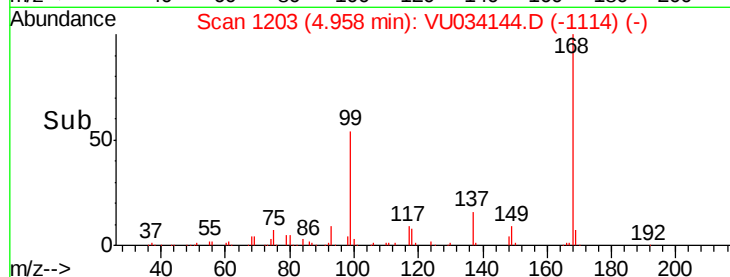
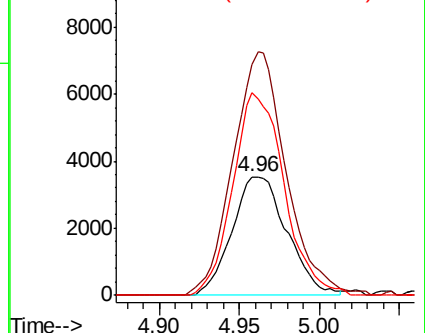
84 170.8 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU034144.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU034144.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU034144.D (-1186) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.671 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034144.D

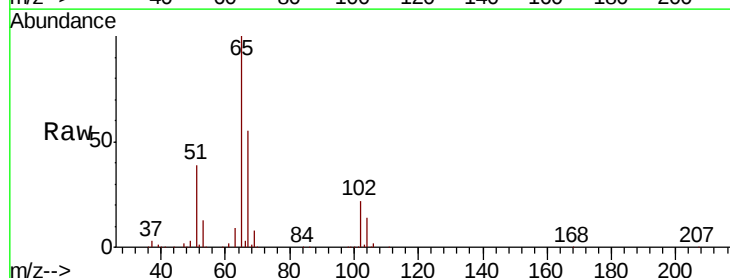
Acq: 01 Sep 2019 00:36

Tgt Ion: 65 Resp: 289204

Ion Ratio Lower Upper

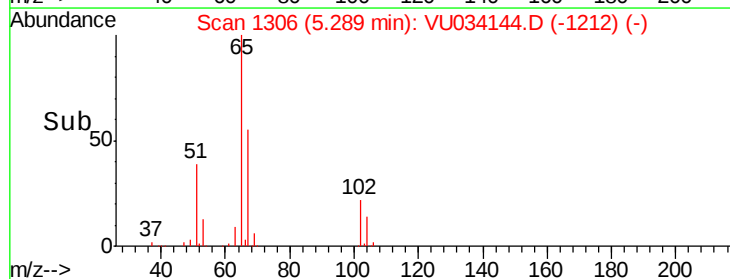
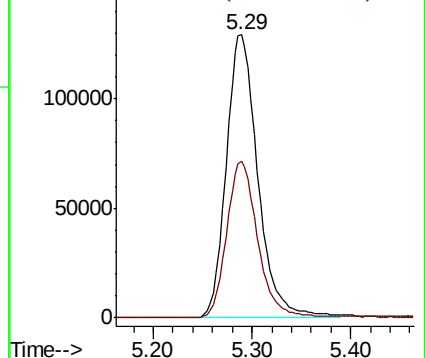
65 100

67 54.6 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034144.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034144.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: VU034144.D

Acq: 01 Sep 2019 00:36

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T9-12-13-F1-(0)

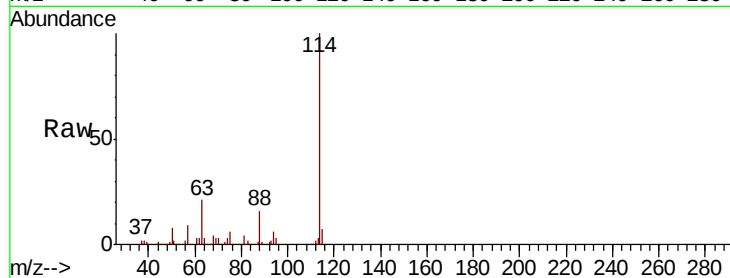
Tgt Ion:114 Resp: 742245

Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.0

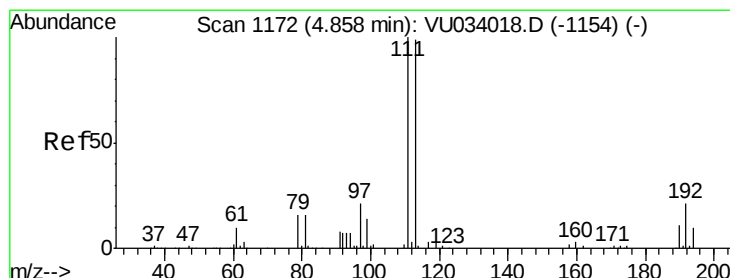
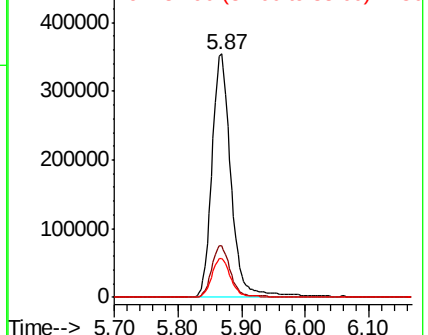
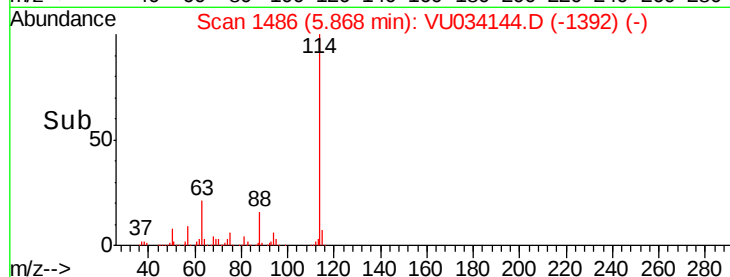
88 16.0 0.0 32.0



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: 46.789 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034144.D

Acq: 01 Sep 2019 00:36

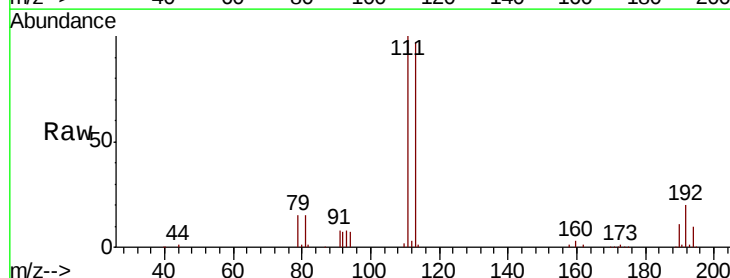
Tgt Ion:113 Resp: 240875

Ion Ratio Lower Upper

113 100

111 102.8 81.7 122.5

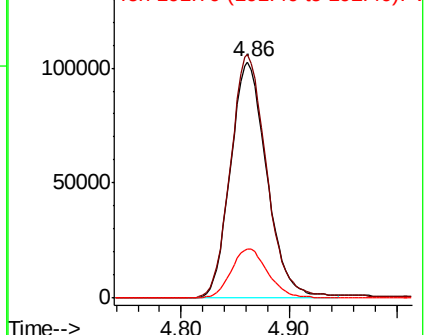
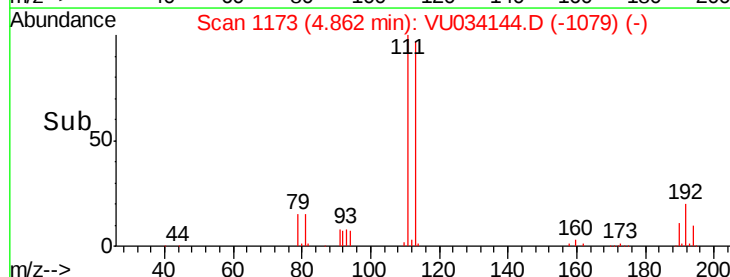
192 21.1 17.1 25.7

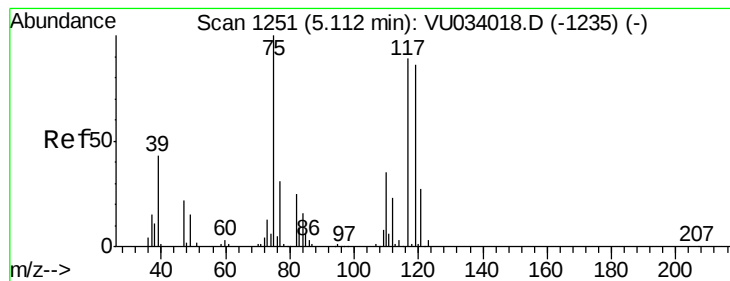


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.673 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034144.D

Acq: 01 Sep 2019 00:36

Instrument :

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T9-12-13-F1-(0)

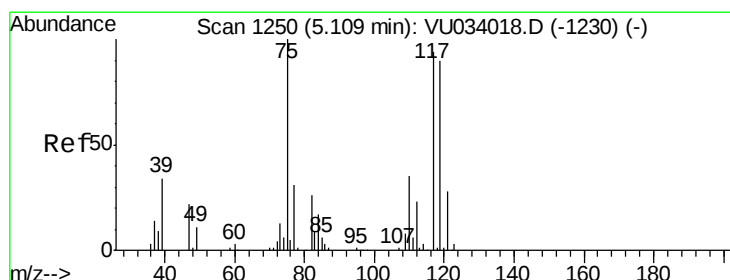
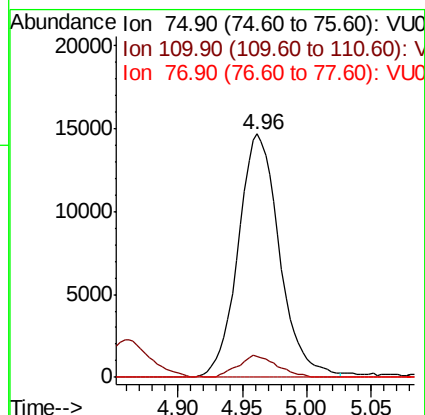
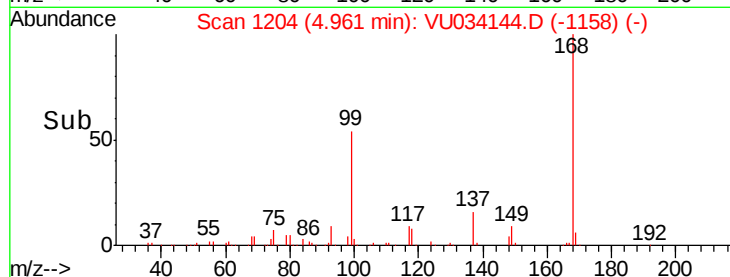
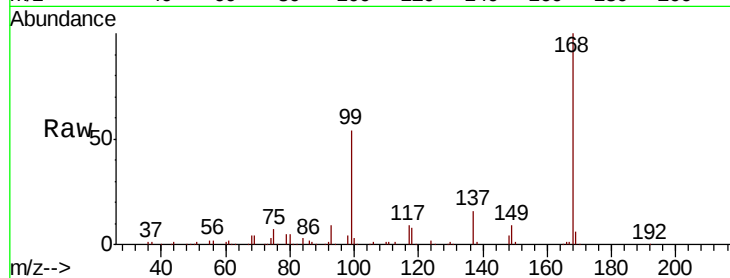
Tgt Ion: 75 Resp: 32806

Ion Ratio Lower Upper

75 100

110 8.4 17.8 53.5#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.060 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034144.D

Acq: 01 Sep 2019 00:36

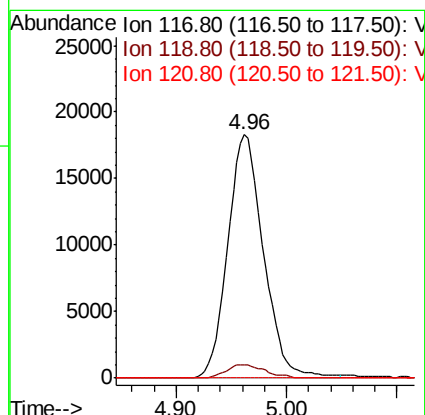
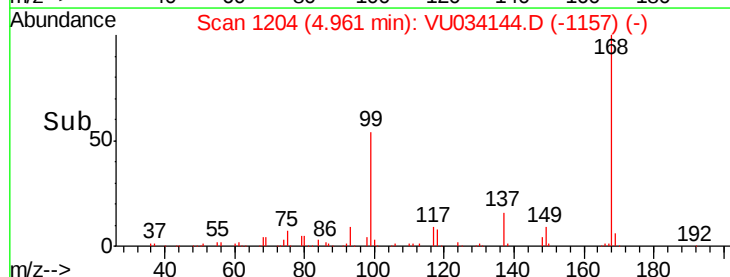
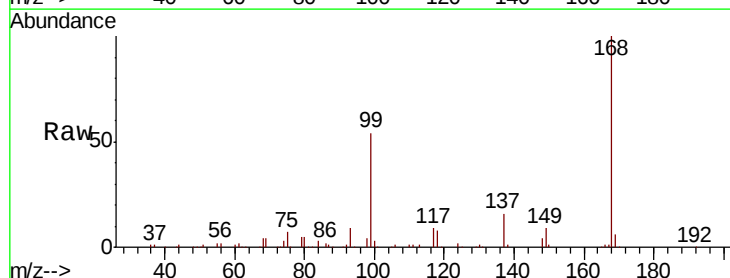
Tgt Ion: 117 Resp: 41065

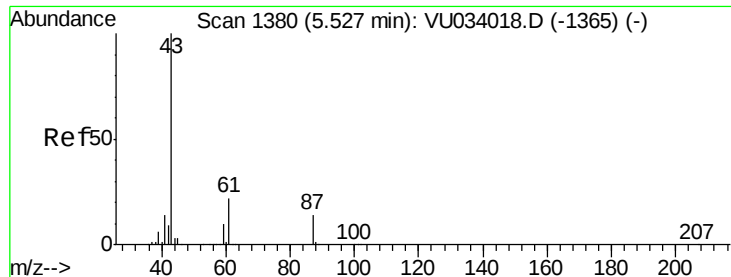
Ion Ratio Lower Upper

117 100

119 5.5 77.0 115.4#

121 0.0 23.9 35.9#

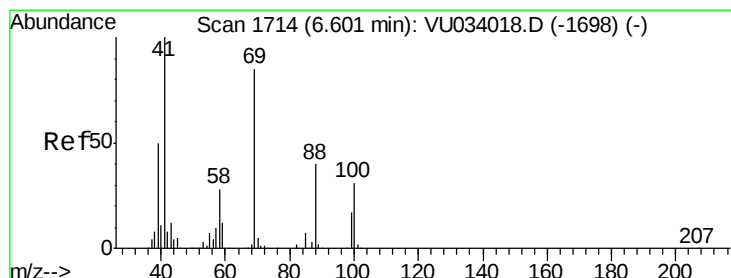
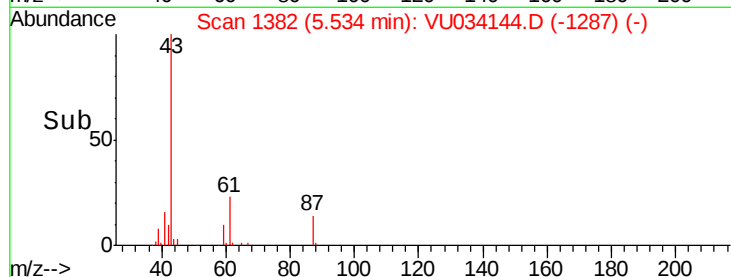
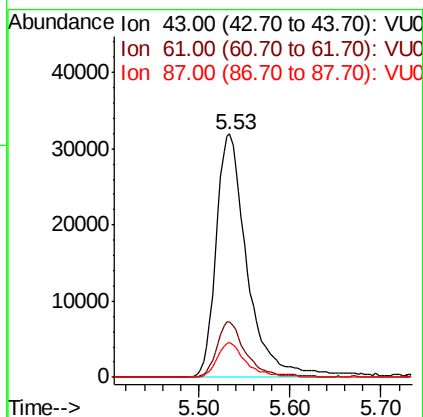
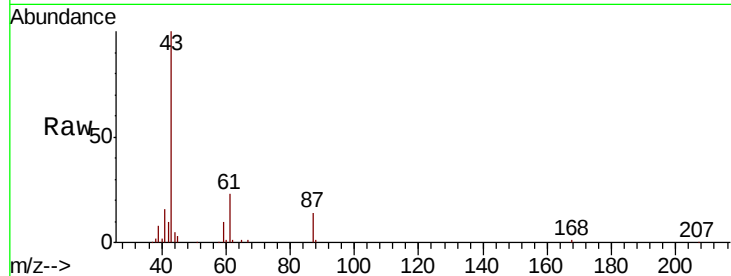




#43
Isopropyl Acetate
Concen: 6.319 ug/l
RT: 5.53 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VU034144.D
Acq: 01 Sep 2019 00:36

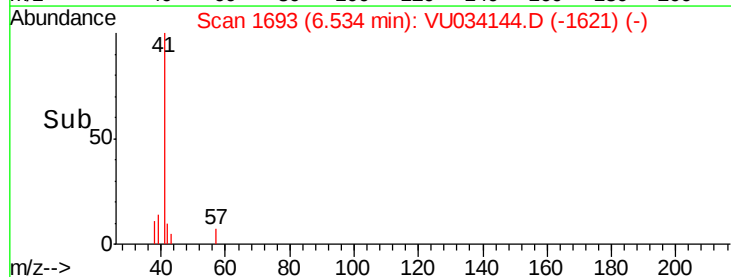
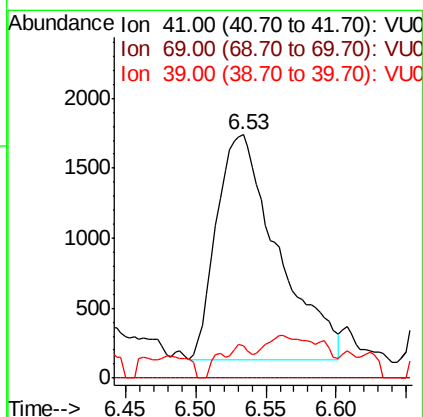
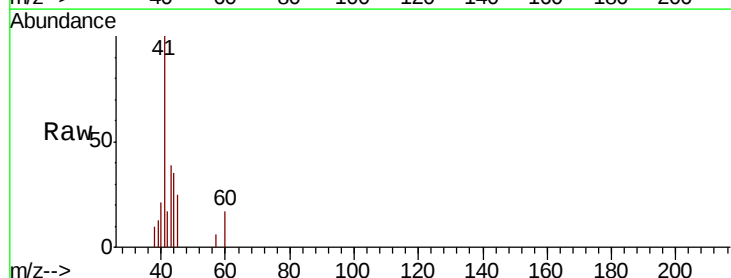
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F1-(0)

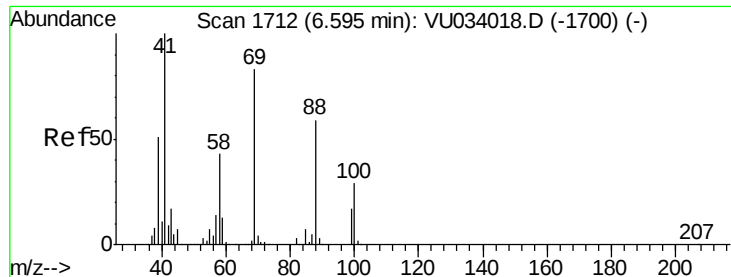
Tgt Ion: 43 Resp: 75575
Ion Ratio Lower Upper
43 100
61 21.4 17.2 25.8
87 13.3 10.8 16.2



#48
Methyl methacrylate
Concen: 0.846 ug/l
RT: 6.53 min Scan# 1693
Delta R.T. -0.07 min
Lab File: VU034144.D
Acq: 01 Sep 2019 00:36

Tgt Ion: 41 Resp: 4883
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: 1.017 ug/l

RT: 6.68 min Scan# 1739

Delta R.T. 0.09 min

Lab File: VU034144.D

Acq: 01 Sep 2019 00:36

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F1-(0)

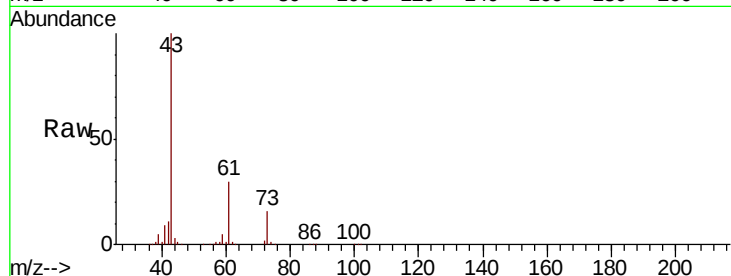
Tgt Ion: 88 Resp: 147

Ion Ratio Lower Upper

88 100

43 897272.1 24.8 37.2#

58 4731.3 59.3 88.9#



Abundance Ion 88.00 (87.70 to 88.70): VU034144.D (-1739) (-)

Ion 43.00 (42.70 to 43.70): VU034144.D (-1739) (-)

Ion 58.00 (57.70 to 58.70): VU034144.D (-1739) (-)

800000

600000

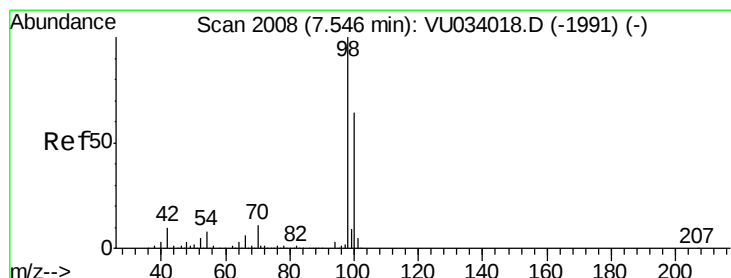
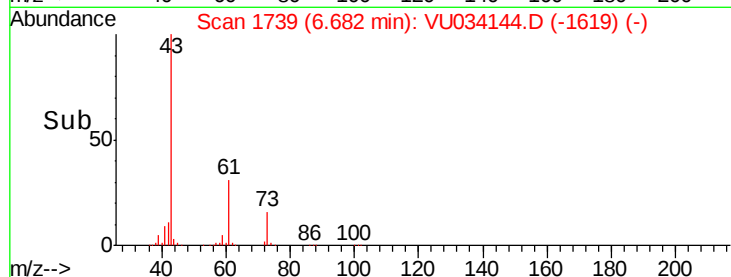
400000

200000

0

6.66 6.68 6.70

Time-->



#50

Toluene-d8

Concen: 50.080 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034144.D

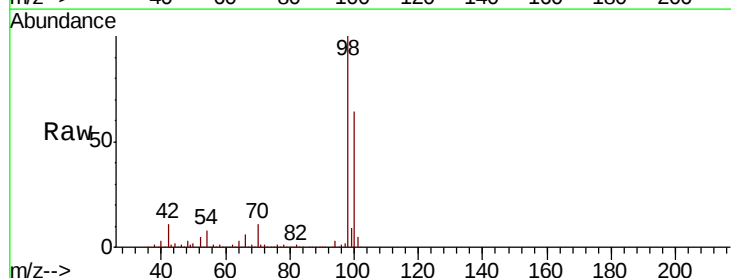
Acq: 01 Sep 2019 00:36

Tgt Ion: 98 Resp: 965378

Ion Ratio Lower Upper

98 100

100 64.3 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU034144.D (-2008) (-)

Ion 100.00 (99.70 to 100.70): VU034144.D (-2008) (-)

600000

500000

400000

300000

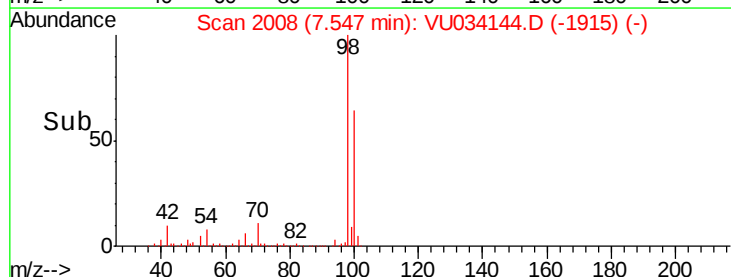
200000

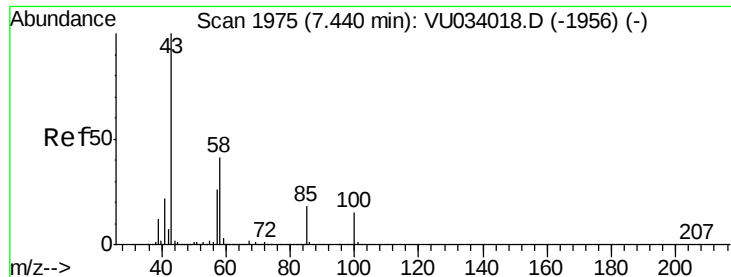
100000

0

7.40 7.50 7.60 7.70

Time-->

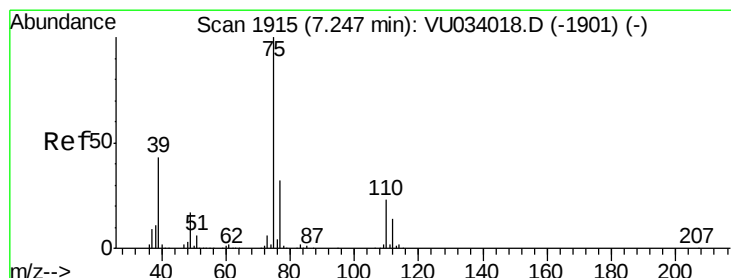
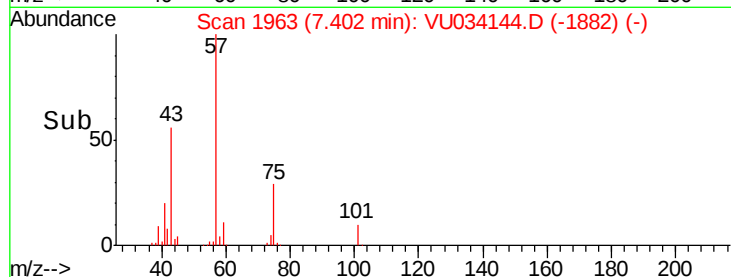
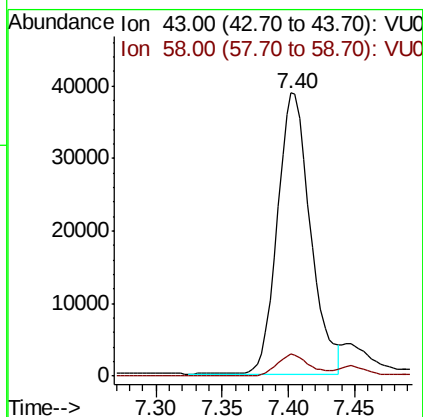
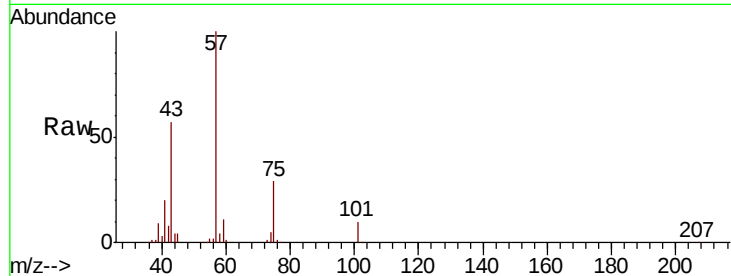




#51
 4-Methyl-2-Pentanone
 Concen: 8.196 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034144.D
 Acq: 01 Sep 2019 00:36

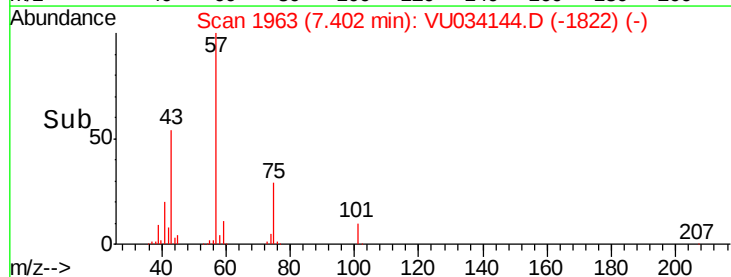
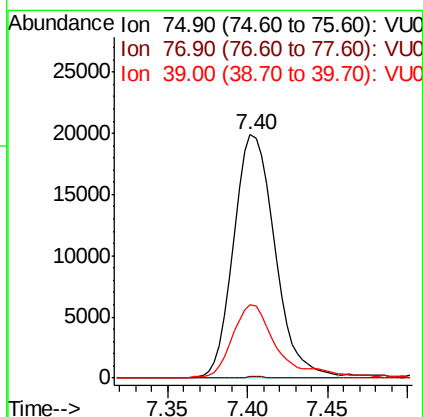
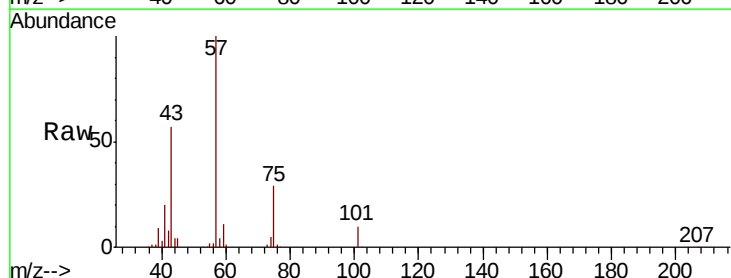
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F1-(0)

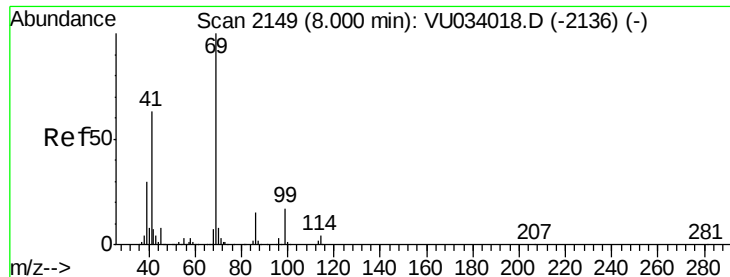
Tgt Ion: 43 Resp: 67702
 Ion Ratio Lower Upper
 43 100
 58 7.7 32.2 48.4#



#54
 cis-1,3-Dichloropropene
 Concen: 3.917 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034144.D
 Acq: 01 Sep 2019 00:36

Tgt Ion: 75 Resp: 35001
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.2 37.8#
 39 30.2 34.6 51.8#





#56

Ethyl methacrylate

Concen: 0.985 ug/l

RT: 7.99 min Scan# 2146

Delta R.T. -0.01 min

Lab File: VU034144.D

Acq: 01 Sep 2019 00:36

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F1-(0)

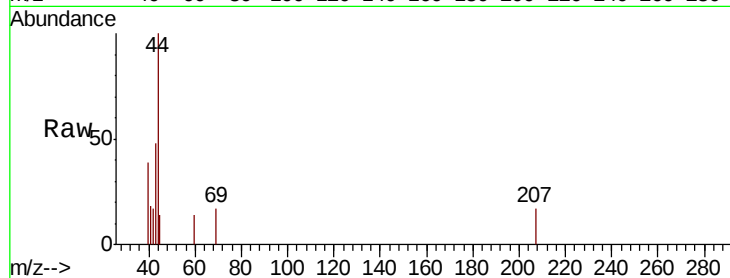
Tgt Ion: 69 Resp: 129

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

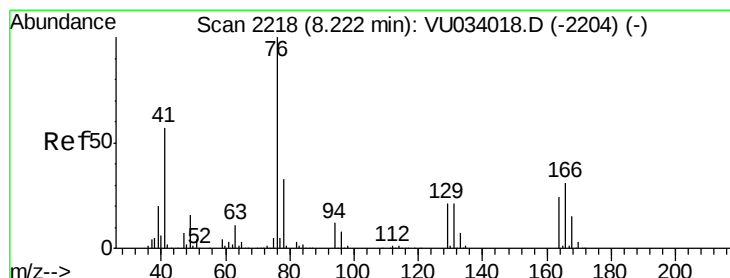
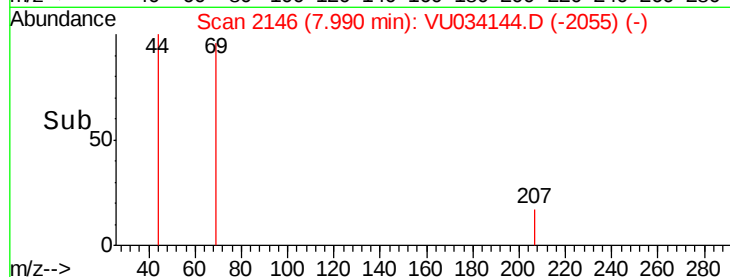
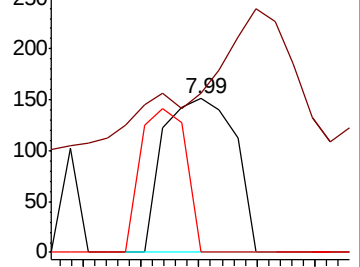
39 0.0 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VU034144.D (-2055) (-)

Ion 41.00 (40.70 to 41.70): VU034144.D (-2055) (-)

Ion 39.00 (38.70 to 39.70): VU034144.D (-2055) (-)



#57

1,3-Dichloropropane

Concen: 0.624 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034144.D

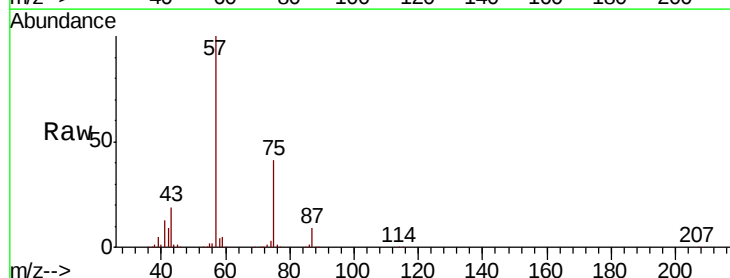
Acq: 01 Sep 2019 00:36

Tgt Ion: 76 Resp: 5869

Ion Ratio Lower Upper

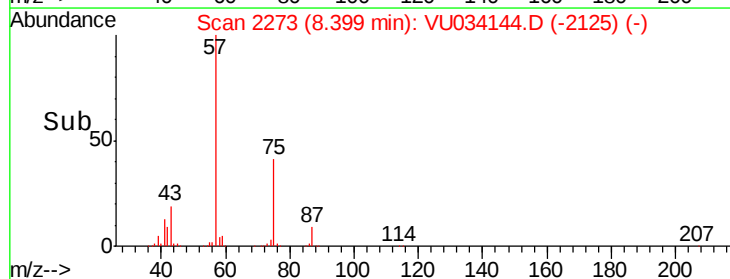
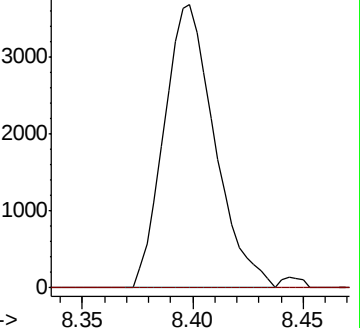
76 100

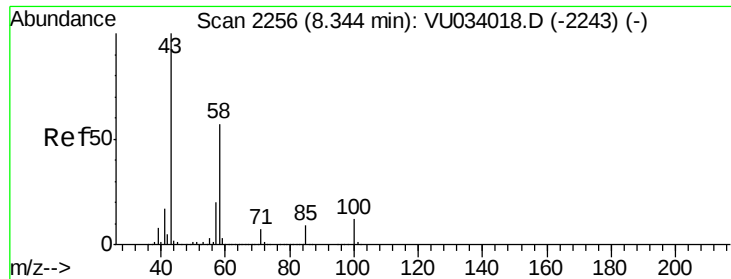
78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU034144.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034144.D (-2125) (-)

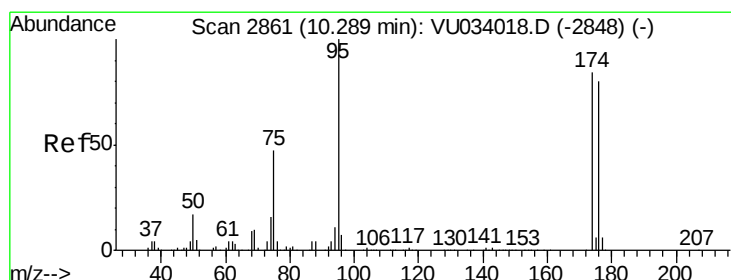
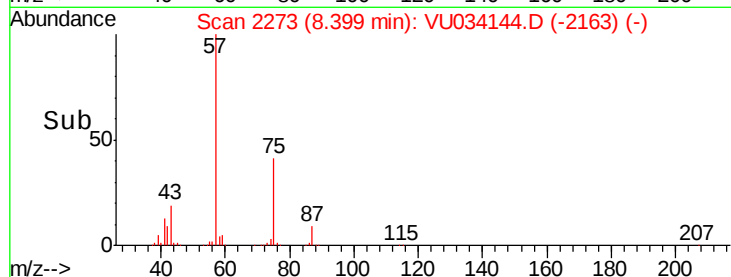
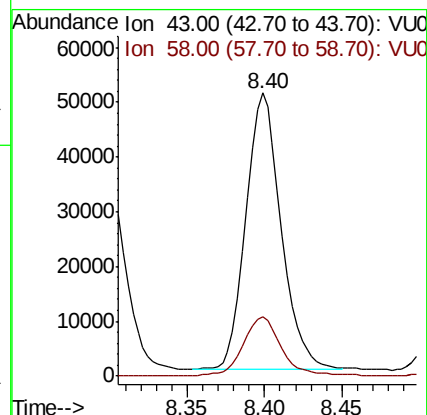
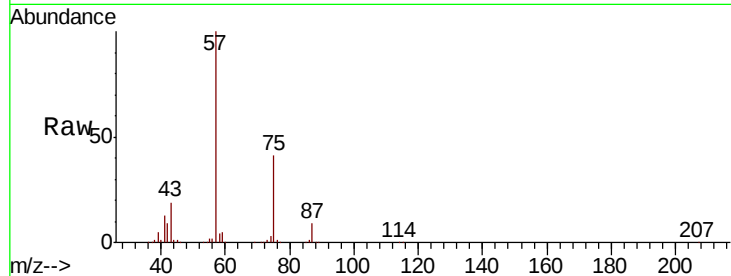




#59
2-Hexanone
Concen: 12.850 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034144.D
Acq: 01 Sep 2019 00:36

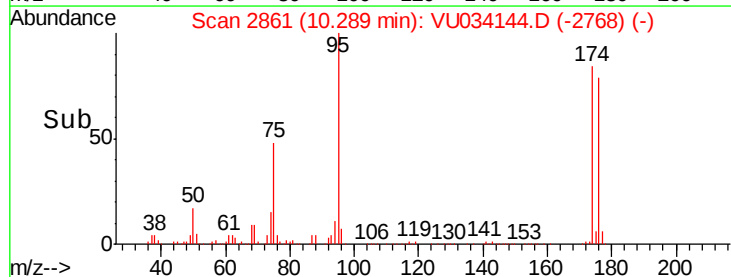
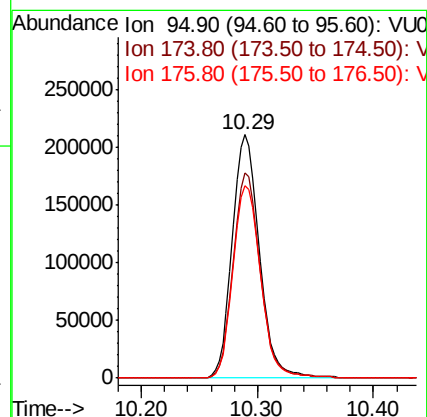
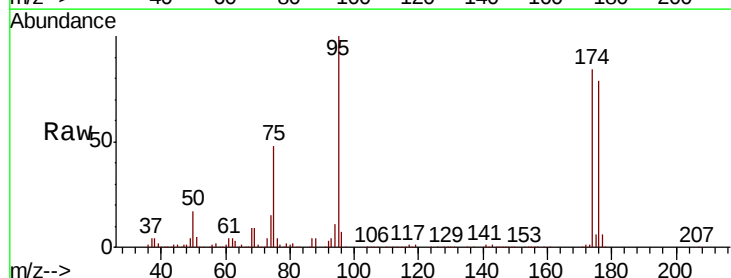
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F1-(0)

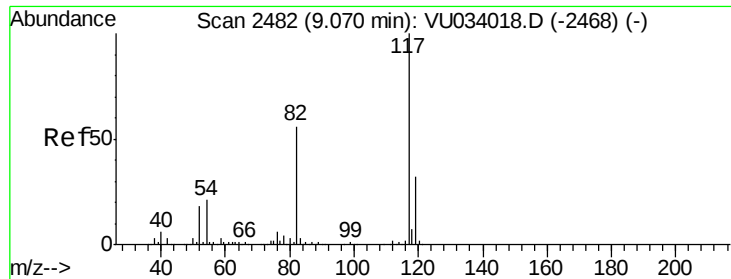
Tgt Ion: 43 Resp: 80129
Ion Ratio Lower Upper
43 100
58 23.8 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 45.449 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034144.D
Acq: 01 Sep 2019 00:36

Tgt Ion: 95 Resp: 340797
Ion Ratio Lower Upper
95 100
174 84.8 0.0 168.8
176 81.2 0.0 161.8

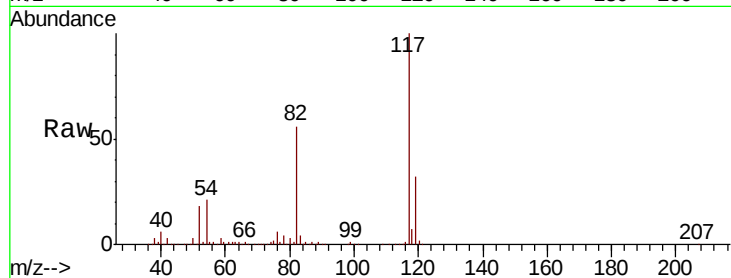




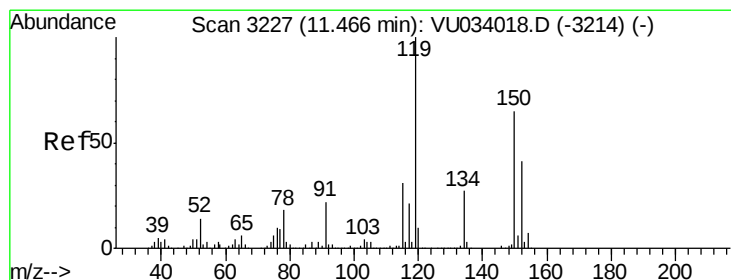
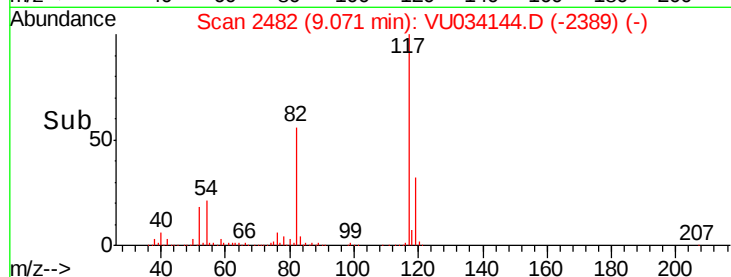
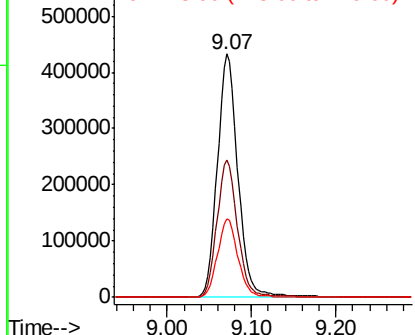
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034144.D
Acq: 01 Sep 2019 00:36

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F1-(0)

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.1	67.7
119	32.5	25.4	38.0

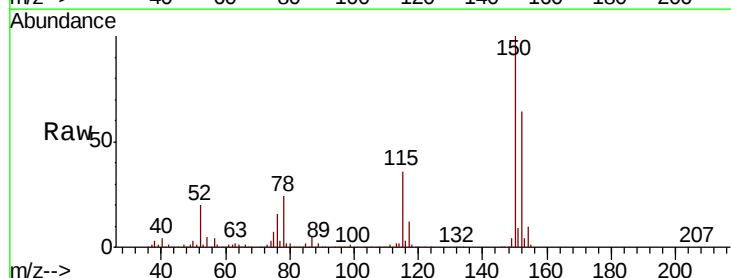


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

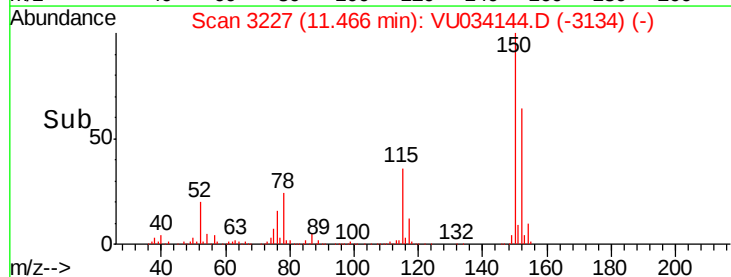
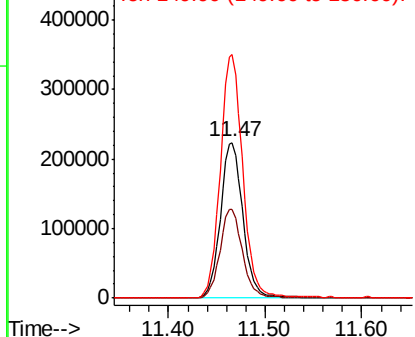


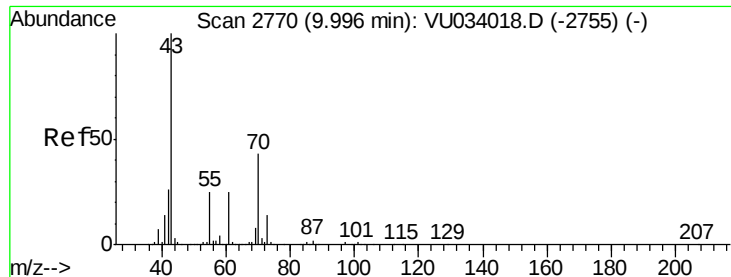
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VU034144.D
Acq: 01 Sep 2019 00:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.7	41.1	123.3
150	156.6	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

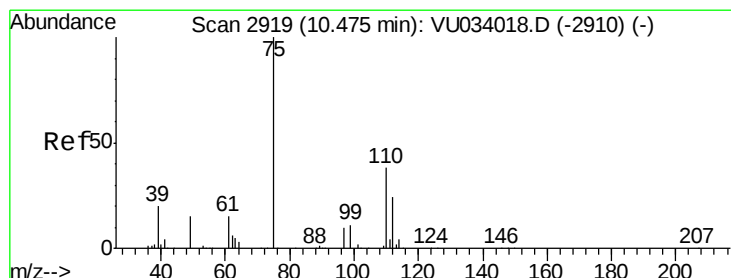
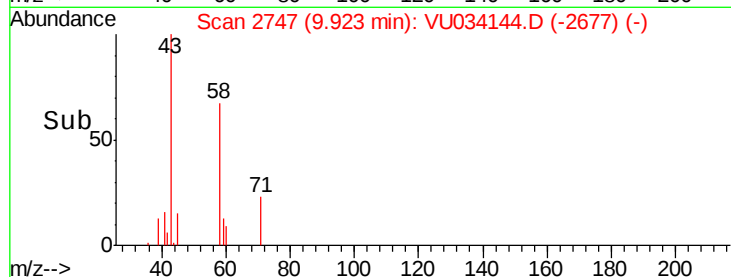
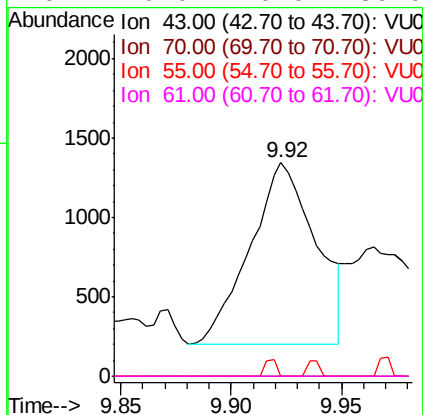
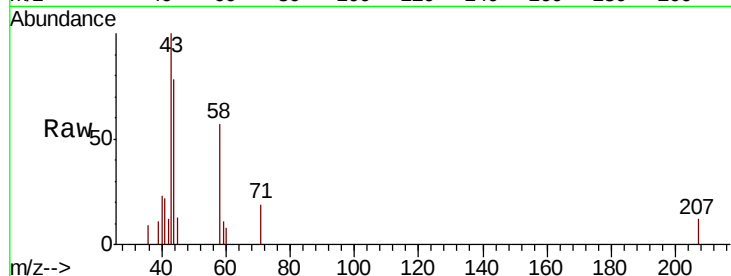




#74
N-amyI acetate
Concen: 0.230 ug/l
RT: 9.92 min Scan# 2747
Delta R.T. -0.07 min
Lab File: VU034144.D
Acq: 01 Sep 2019 00:36

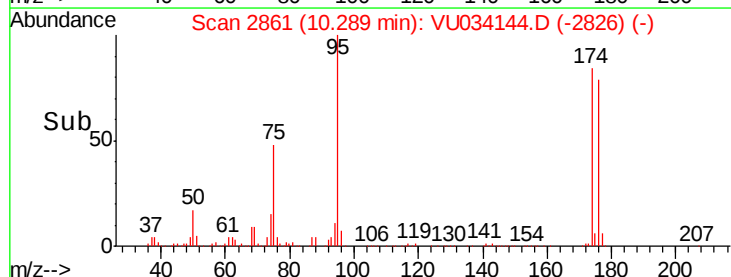
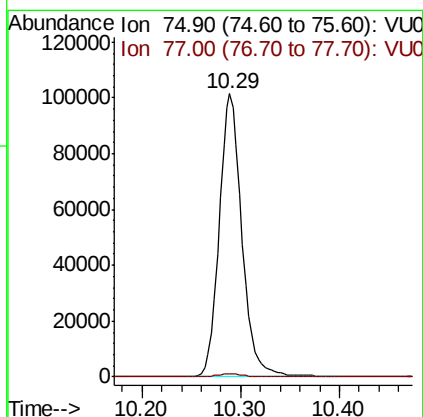
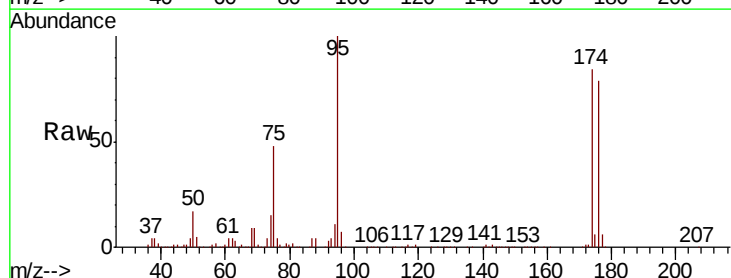
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F1-(0)

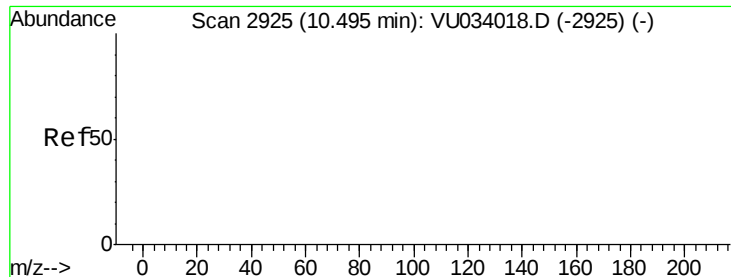
Tgt Ion:	43	Resp:	2352
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.2	52.8#
55	0.0	20.5	30.7#
61	0.0	20.0	30.0#



#76
1,2,3-Trichloropropane
Concen: 20.112 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.19 min
Lab File: VU034144.D
Acq: 01 Sep 2019 00:36

Tgt Ion:	75	Resp:	164062
Ion	Ratio	Lower	Upper
75	100		
77	1.3	20.1	60.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 67.720 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034144.D

Acq: 01 Sep 2019 00:36

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F1-(0)

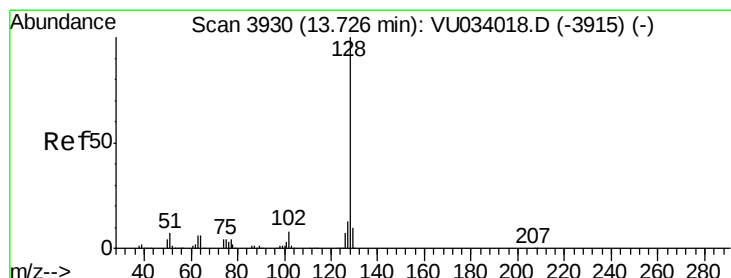
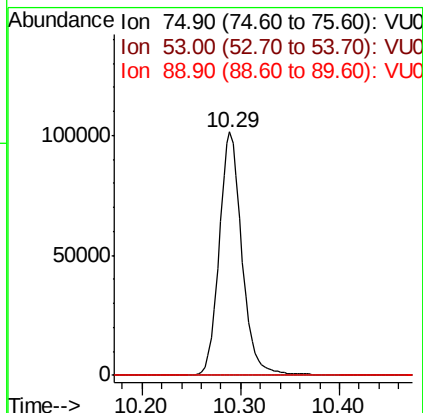
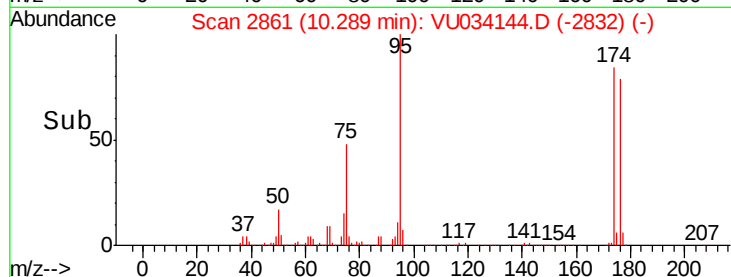
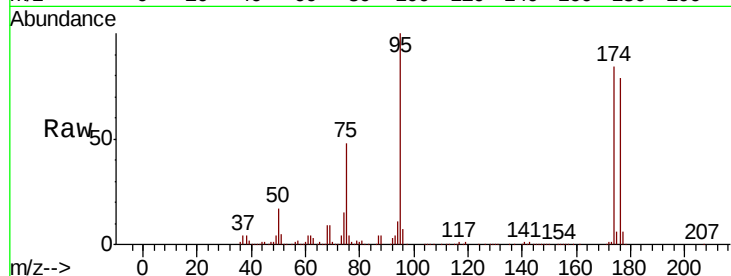
Tgt Ion: 75 Resp: 164062

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0



#95

Naphthalene

Concen: 1.799 ug/l

RT: 13.79 min Scan# 3951

Delta R.T. 0.07 min

Lab File: VU034144.D

Acq: 01 Sep 2019 00:36

Tgt Ion: 128 Resp: 217

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#

