

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090519\
 Data File : VU034251.D
 Acq On : 04 Sep 2019 12:38
 Operator : JC/SP
 Sample : K4546-38
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-B3-(2.5)

Quant Time: Sep 05 03:37:27 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	425662	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	684828	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	672801	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	328805	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	261449	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	
35) Dibromofluoromethane	4.86	113	220946	46.52	ug/l	0.00
Spiked Amount			Recovery	=	93.04%	
50) Toluene-d8	7.55	98	883988	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
62) 4-Bromofluorobenzene	10.29	95	305133	44.10	ug/l	0.00
Spiked Amount			Recovery	=	88.20%	

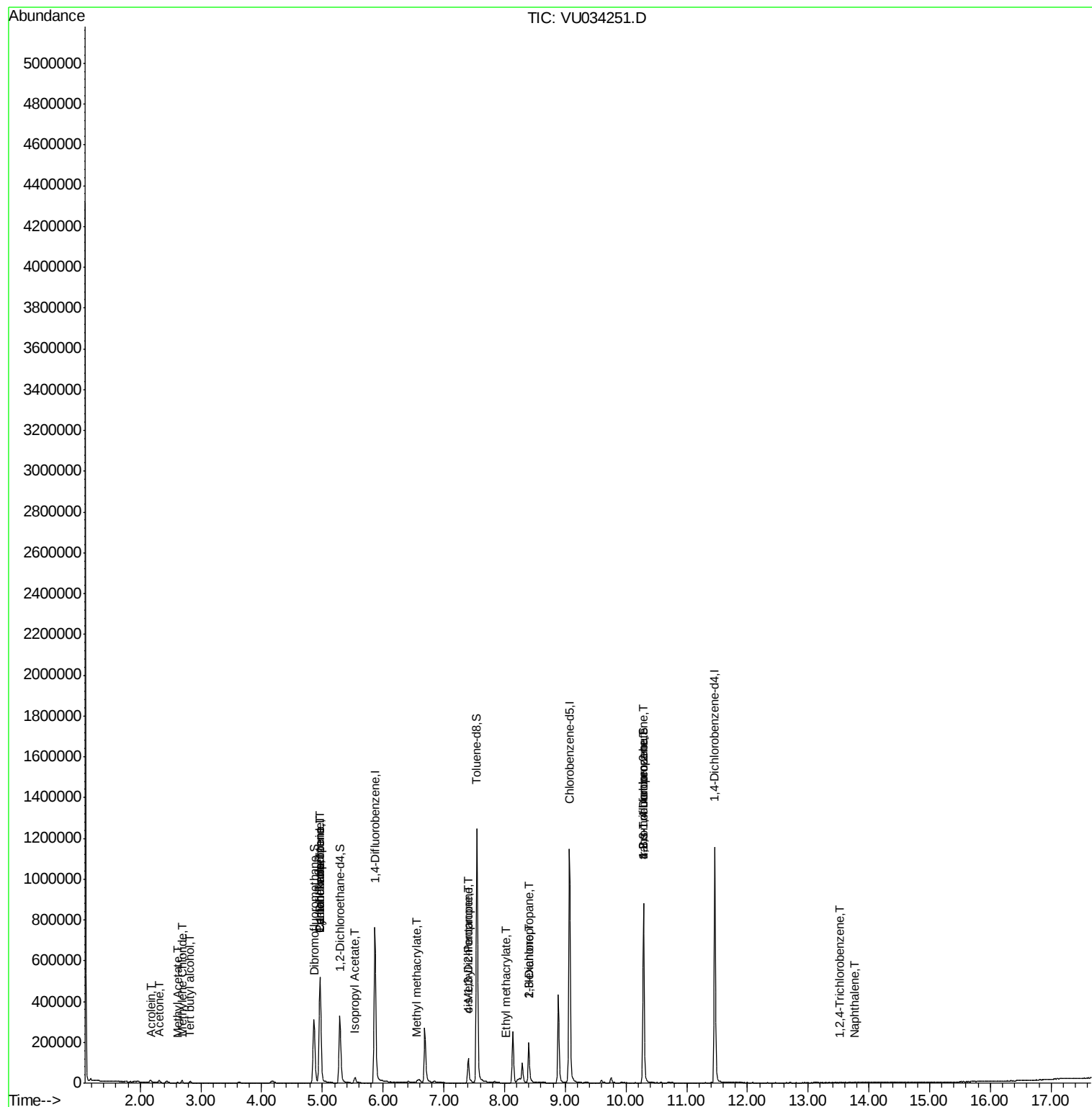
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	600	Below Cal		89
5) Bromomethane	1.58	94	45	Below Cal	#	2
11) Tert butyl alcohol	2.82	59	4375	3.478	ug/l #	73
13) Acrolein	2.19	56	219	0.414	ug/l #	63
16) Acetone	2.31	43	12719	4.570	ug/l	97
18) Methyl Acetate	2.62	43	2290	0.318	ug/l	91
20) Methylene Chloride	2.69	84	5586	1.060	ug/l	96
31) Cyclohexane	4.96	56	7797	0.957	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	30148	4.654	ug/l #	49
38) Carbon Tetrachloride	4.96	117	39601	6.334	ug/l #	17
43) Isopropyl Acetate	5.54	43	33789	3.062	ug/l	99
48) Methyl methacrylate	6.54	41	3825	0.718	ug/l #	14
51) 4-Methyl-2-Pentanone	7.40	43	42628	5.593	ug/l #	48
54) cis-1,3-Dichloropropene	7.40	75	22918	2.780	ug/l #	65
56) Ethyl methacrylate	8.02	69	325	1.009	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	2096	0.242	ug/l #	42
59) 2-Hexanone	8.40	43	28752	4.997	ug/l #	58
76) 1,2,3-Trichloropropane	10.29	75	143105	19.311	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	143105	65.023	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	155	1.135	ug/l #	35
95) Naphthalene	13.78	128	1254	1.849	ug/l #	75

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
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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: VU034251.D

Acq: 04 Sep 2019 12:38

Instrument :

MSVOA_U

ClientSampleId :

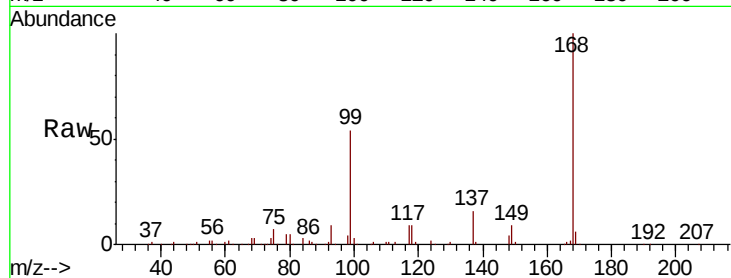
T3-S-B3-(2.5)

Tgt Ion:168 Resp: 425662

Ion Ratio Lower Upper

168 100

99 54.3 42.3 63.5



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

Ion 98.90 (98.60 to 99.60): VU034251.D (-1110) (-)

4.96

200000

150000

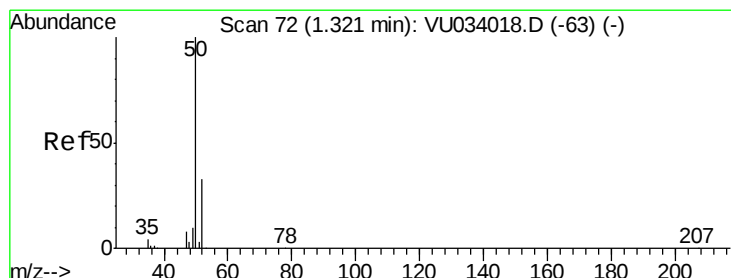
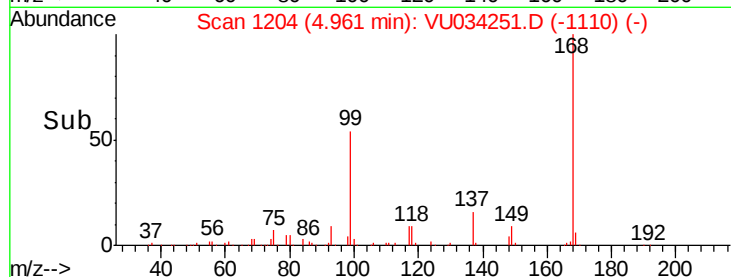
100000

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: VU034251.D

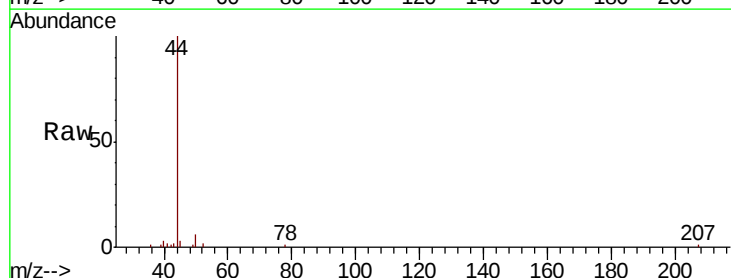
Acq: 04 Sep 2019 12:38

Tgt Ion: 50 Resp: 600

Ion Ratio Lower Upper

50 100

52 39.2 26.2 39.4



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

Ion 51.90 (51.60 to 52.60): VU034251.D (-1) (-)

1.33

600

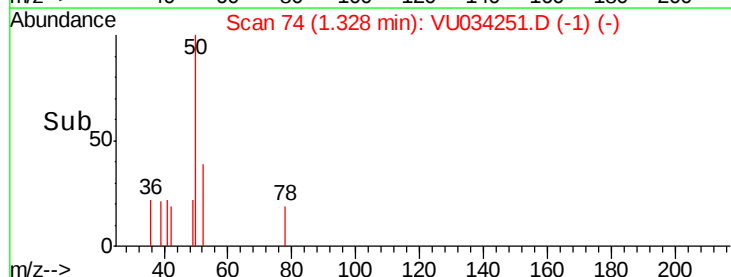
400

200

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.58 min Scan# 152

Delta R.T. -0.02 min

Lab File: VU034251.D

Acq: 04 Sep 2019 12:38

Instrument :

MSVOA_U

ClientSampleId :

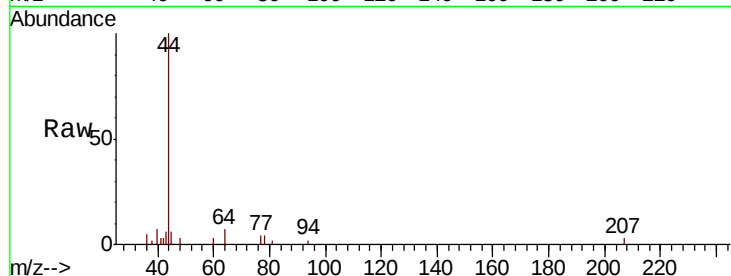
T3-S-B3-(2.5)

Tgt Ion: 94 Resp: 45

Ion Ratio Lower Upper

94 100

96 0.0 76.3 114.5#



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

Ion 95.90 (95.60 to 96.60): VU034018.D (-143) (-)

1.58

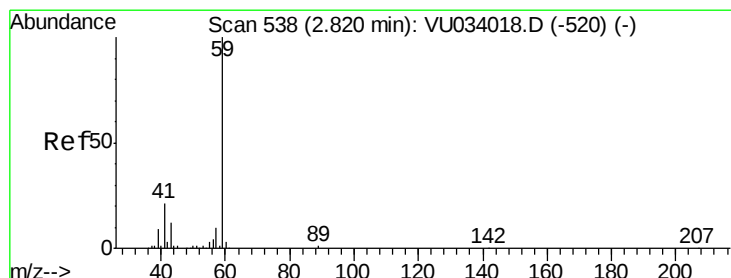
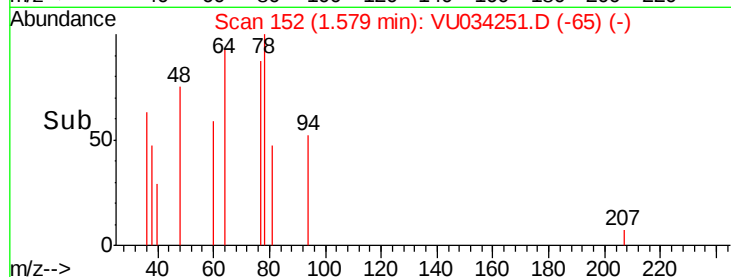
100

50

0

1.57 1.58 1.59

Time-->



#11

Tert butyl alcohol

Concen: 3.478 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034251.D

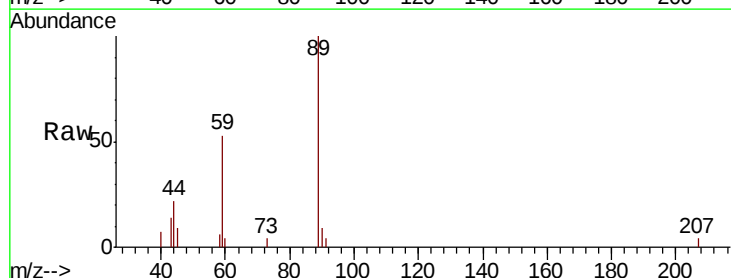
Acq: 04 Sep 2019 12:38

Tgt Ion: 59 Resp: 4375

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) (-)

Ion 57.00 (56.70 to 57.70): VU034018.D (-520) (-)

2.82

2000

1500

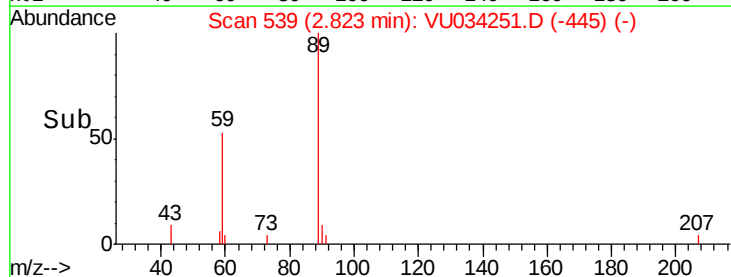
1000

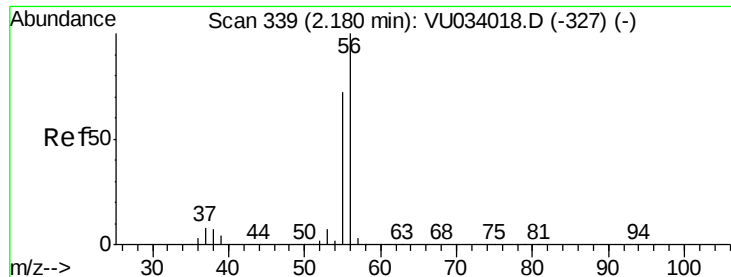
500

0

2.75 2.80 2.85

Time-->





#13

Acrolein

Concen: 0.414 ug/l

RT: 2.19 min Scan# 342

Delta R.T. 0.01 min

Lab File: VU034251.D

Acq: 04 Sep 2019 12:38

Instrument :

MSVOA_U

ClientSampleId :

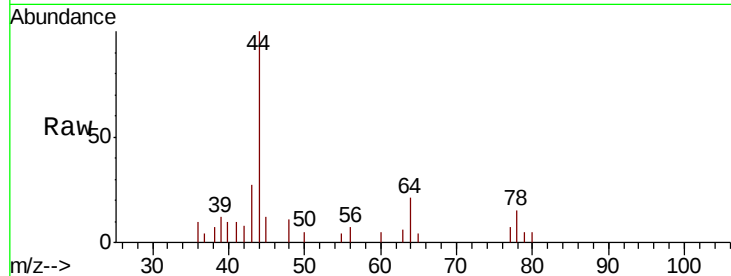
T3-S-B3-(2.5)

Tgt Ion: 56 Resp: 219

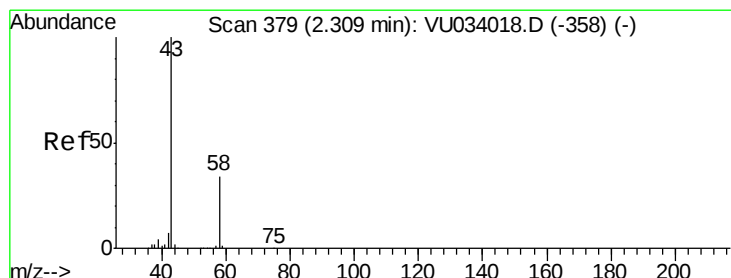
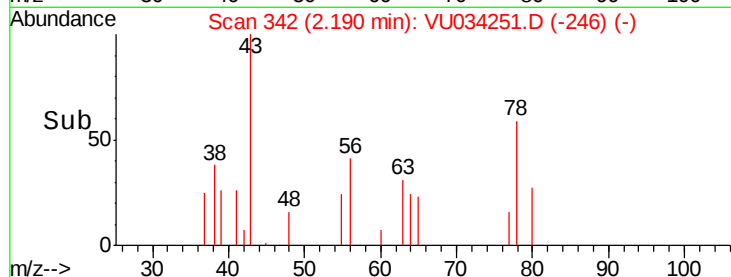
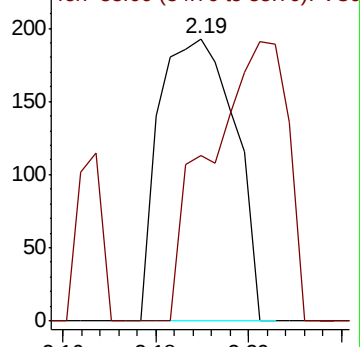
Ion Ratio Lower Upper

56 100

55 101.8 57.1 85.7#



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



#16

Acetone

Concen: 4.570 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034251.D

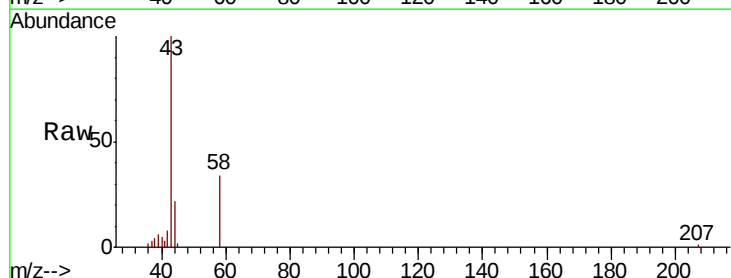
Acq: 04 Sep 2019 12:38

Tgt Ion: 43 Resp: 12719

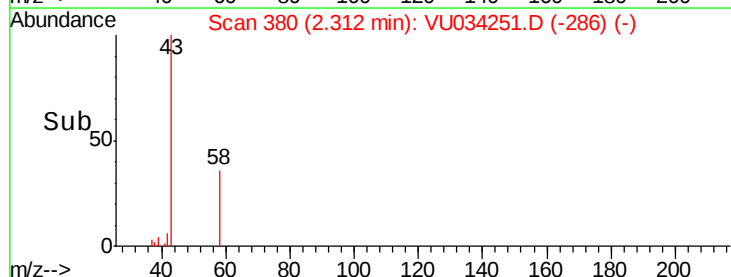
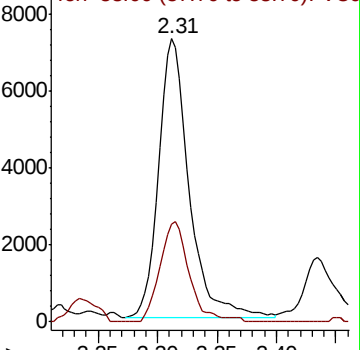
Ion Ratio Lower Upper

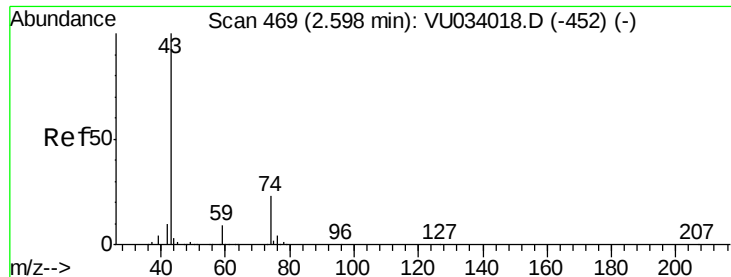
43 100

58 34.9 26.8 40.2



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

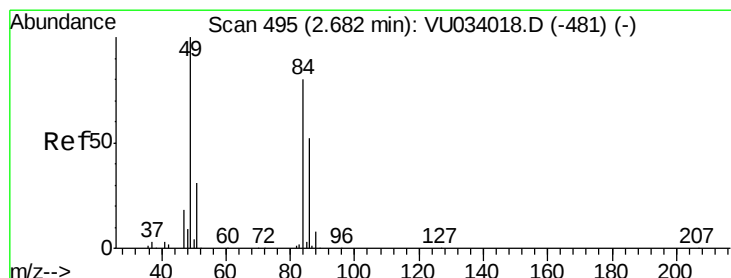
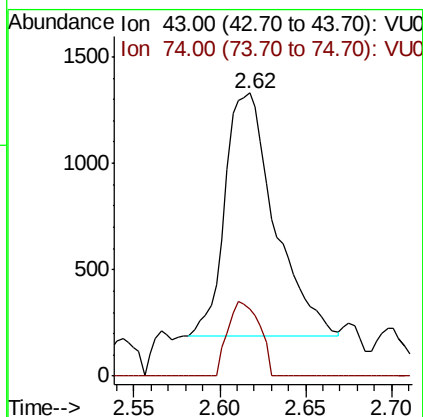
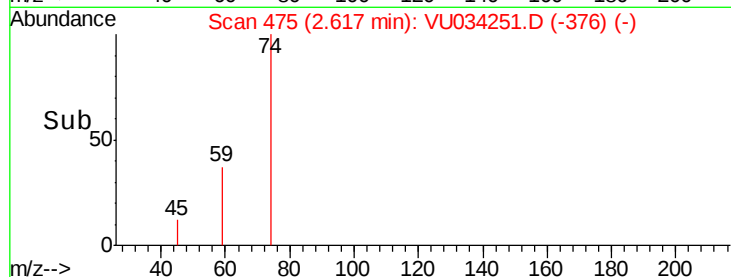
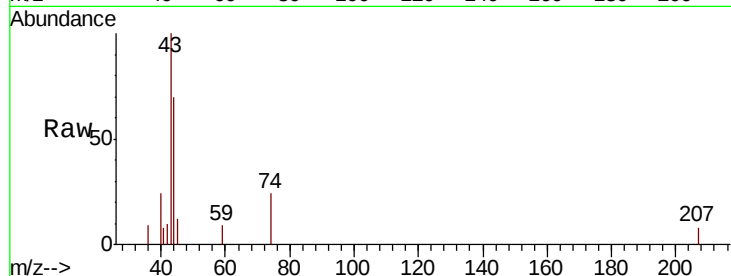




#18
Methyl Acetate
Concen: 0.318 ug/l
RT: 2.62 min Scan# 475
Delta R.T. 0.02 min
Lab File: VU034251.D
Acq: 04 Sep 2019 12:38

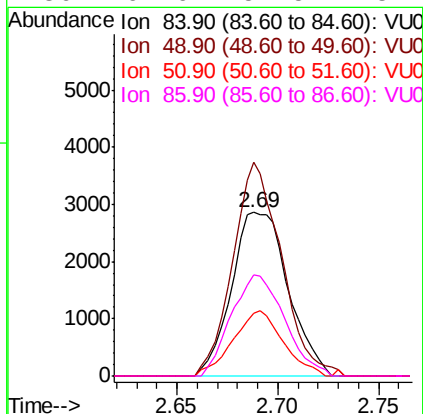
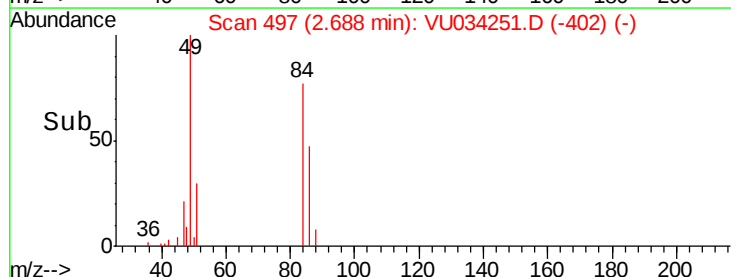
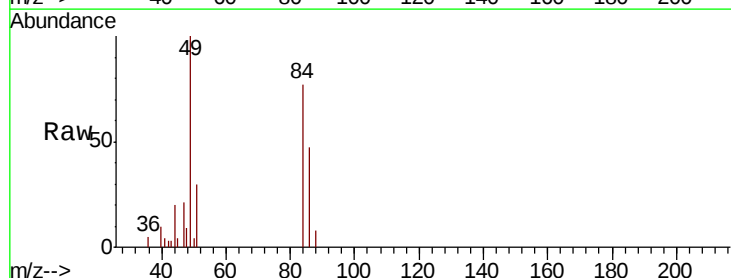
Instrument :
MSVOA_U
ClientSampleId :
T3-S-B3-(2.5)

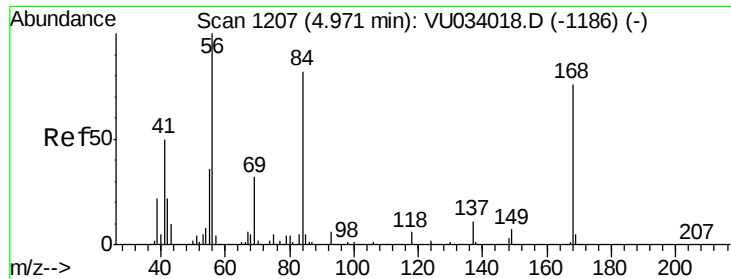
Tgt Ion: 43 Resp: 2290
Ion Ratio Lower Upper
43 100
74 19.6 19.2 28.8



#20
Methylene Chloride
Concen: 1.060 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034251.D
Acq: 04 Sep 2019 12:38

Tgt Ion: 84 Resp: 5586
Ion Ratio Lower Upper
84 100
49 130.7 100.2 150.4
51 38.6 30.8 46.2
86 61.6 52.5 78.7

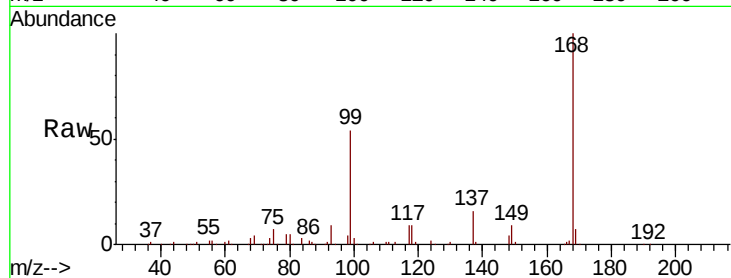




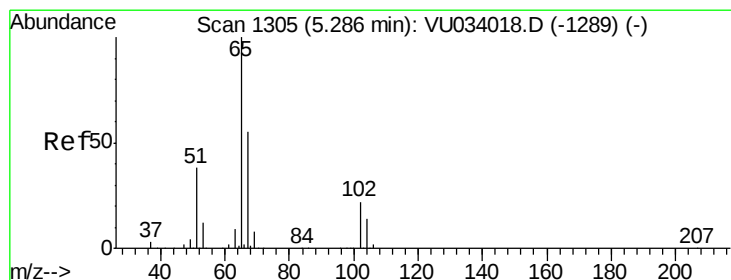
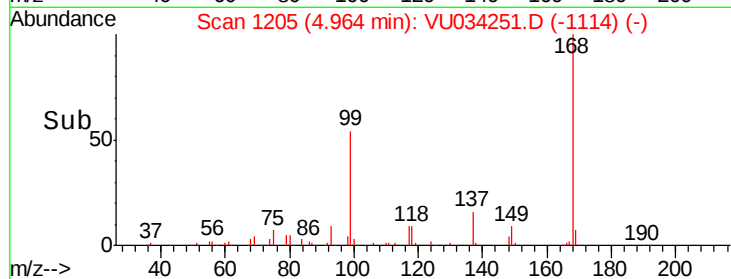
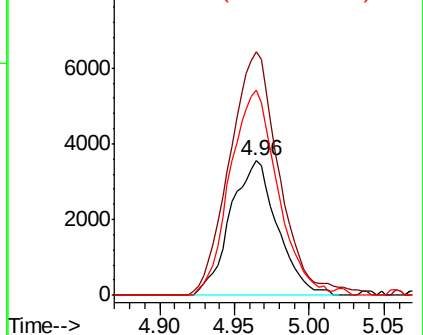
#31
Cyclohexane
Concen: 0.957 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034251.D
Acq: 04 Sep 2019 12:38

Instrument :
MSVOA_U
ClientSampleId :
T3-S-B3-(2.5)

Tgt Ion: 56 Resp: 7797
Ion Ratio Lower Upper
56 100
69 180.9 25.4 38.0#
84 152.2 65.8 98.8#

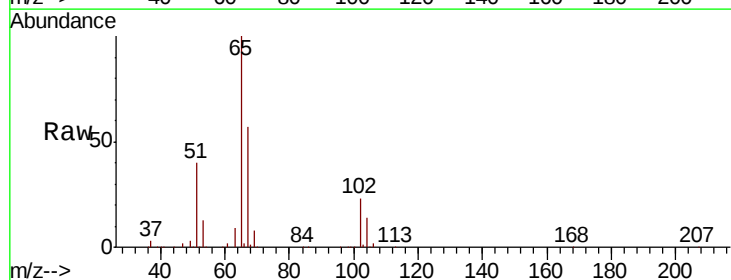


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

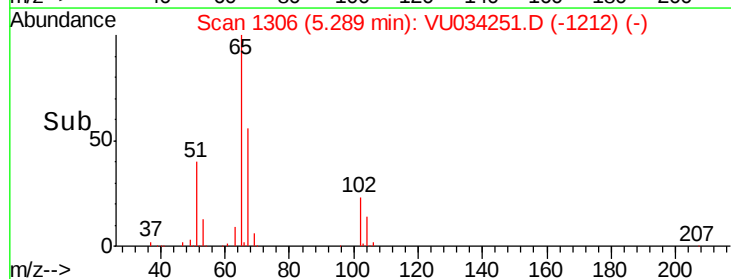
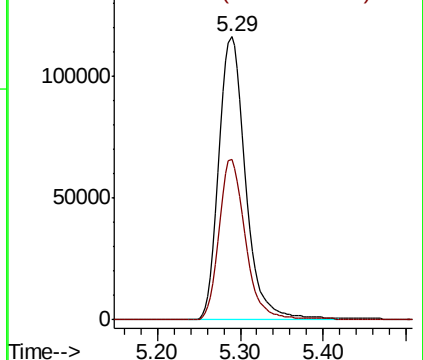


#33
1,2-Dichloroethane-d4
Concen: 47.936 ug/l
RT: 5.29 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU034251.D
Acq: 04 Sep 2019 12:38

Tgt Ion: 65 Resp: 261449
Ion Ratio Lower Upper
65 100
67 55.4 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034251.D

Acq: 04 Sep 2019 12:38

Instrument :

MSVOA_U

ClientSampleId :

T3-S-B3-(2.5)

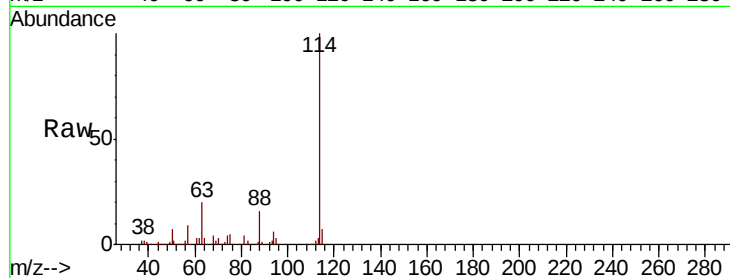
Tgt Ion:114 Resp: 684828

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.0

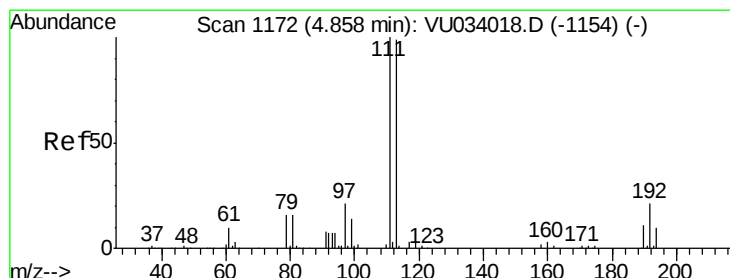
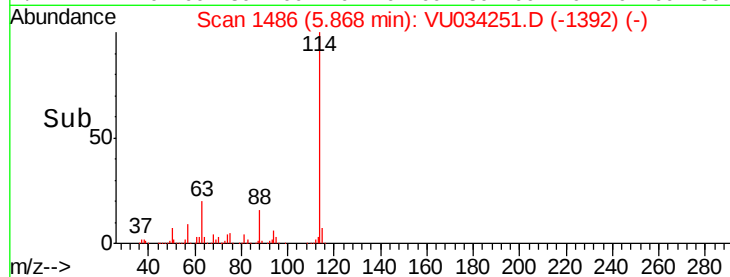
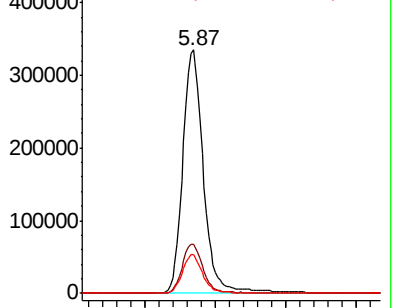
88 15.8 0.0 32.0



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: 46.516 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034251.D

Acq: 04 Sep 2019 12:38

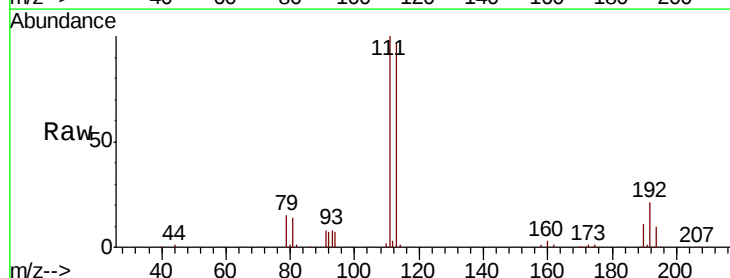
Tgt Ion:113 Resp: 220946

Ion Ratio Lower Upper

113 100

111 102.8 81.7 122.5

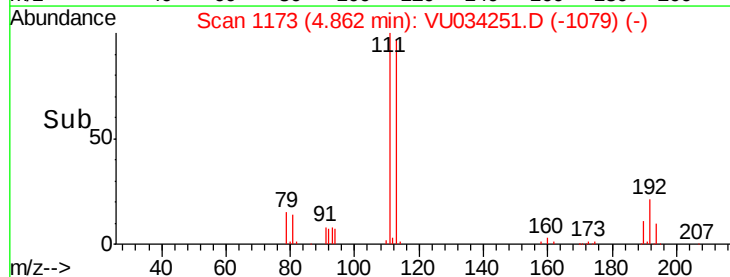
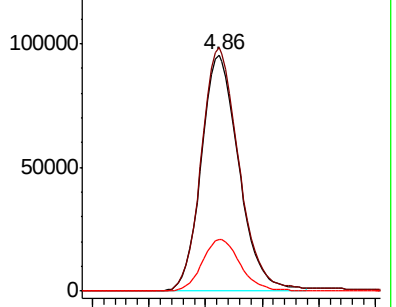
192 22.3 17.1 25.7

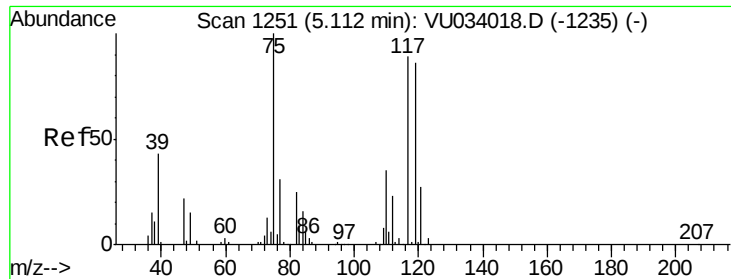


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

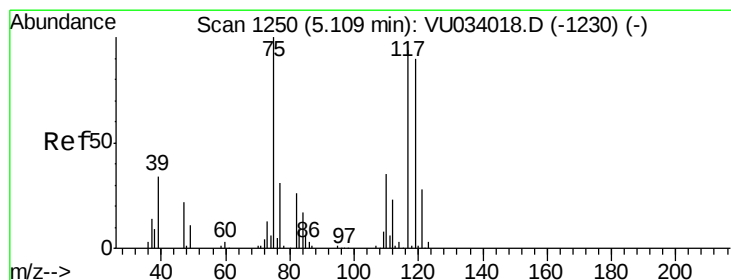
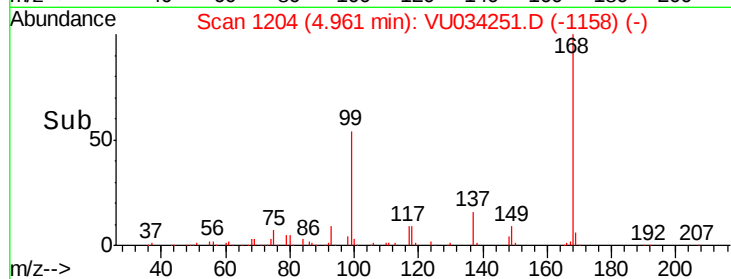
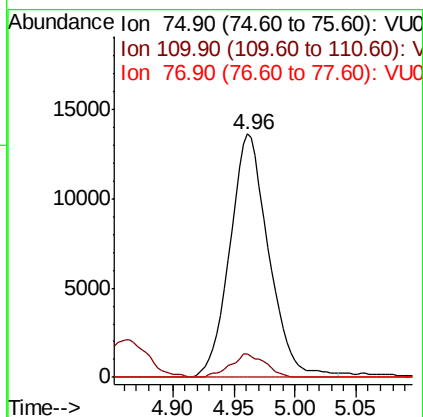
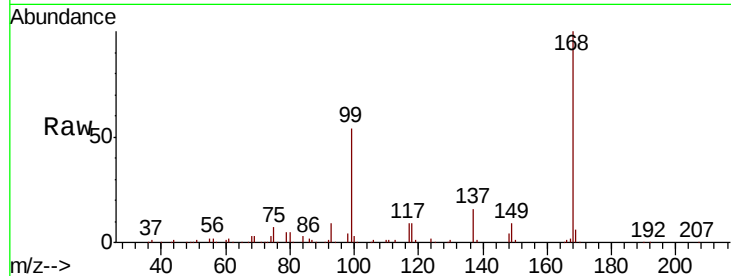




#36
 1,1-Dichloropropene
 Concen: 4.654 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034251.D
 Acq: 04 Sep 2019 12:38

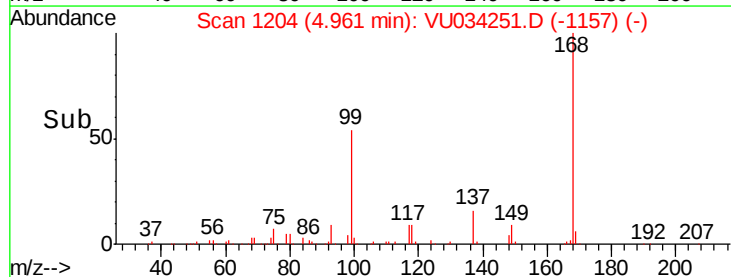
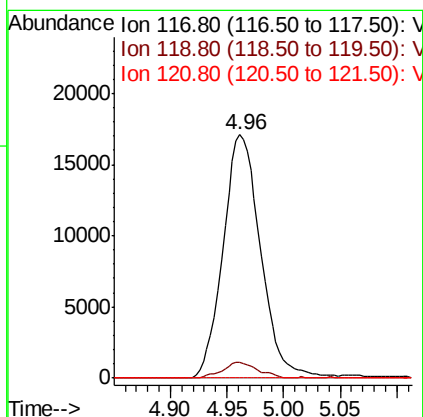
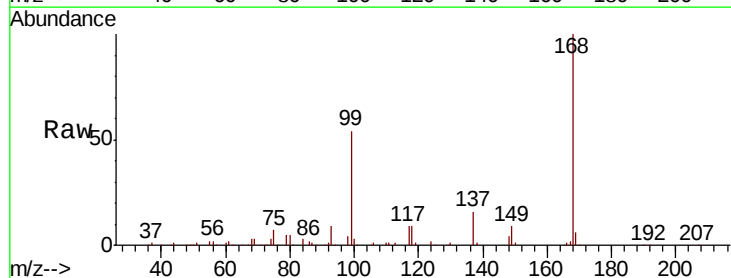
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-B3-(2.5)

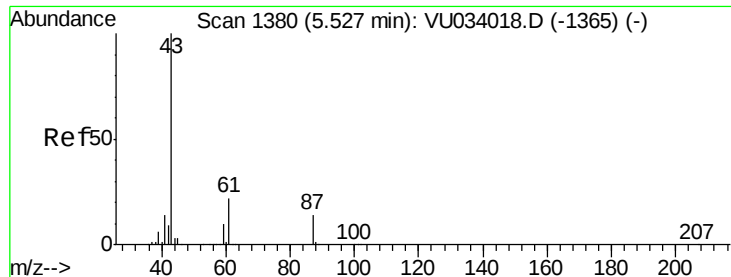
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.334 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034251.D
 Acq: 04 Sep 2019 12:38

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.4	77.0	115.4#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 3.062 ug/l

RT: 5.54 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VU034251.D

Acq: 04 Sep 2019 12:38

Instrument :

MSVOA_U

ClientSampleId :

T3-S-B3-(2.5)

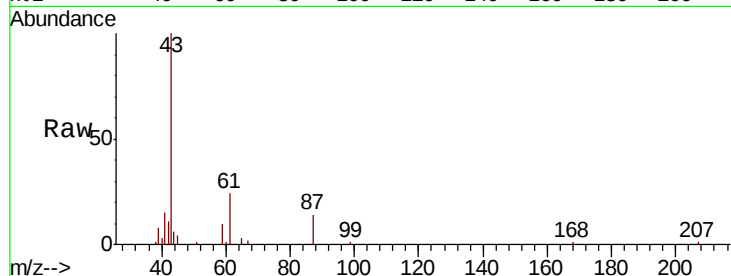
Tgt Ion: 43 Resp: 33789

Ion Ratio Lower Upper

43 100

61 21.8 17.2 25.8

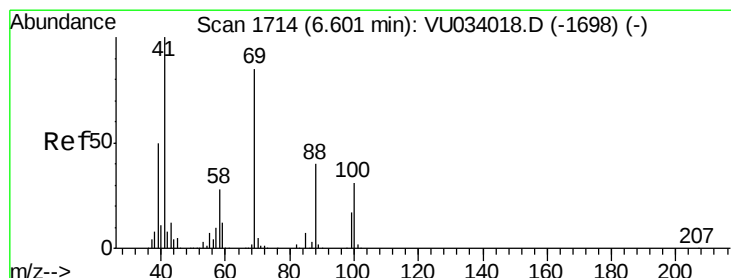
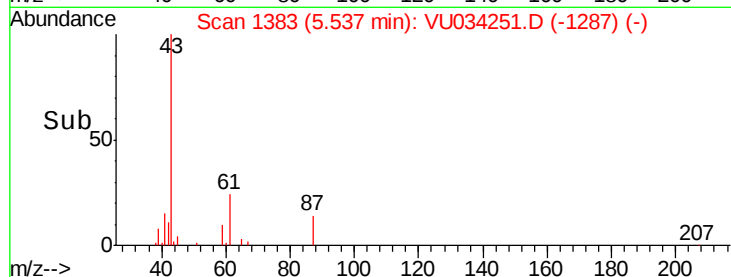
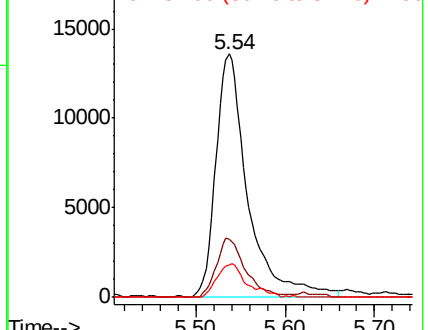
87 12.8 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VU034251.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034251.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034251.D (-1287) (-)



#48

Methyl methacrylate

Concen: 0.718 ug/l

RT: 6.54 min Scan# 1694

Delta R.T. -0.06 min

Lab File: VU034251.D

Acq: 04 Sep 2019 12:38

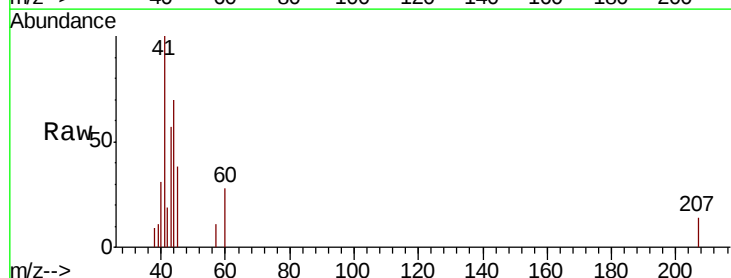
Tgt Ion: 41 Resp: 3825

Ion Ratio Lower Upper

41 100

69 0.0 69.5 104.3#

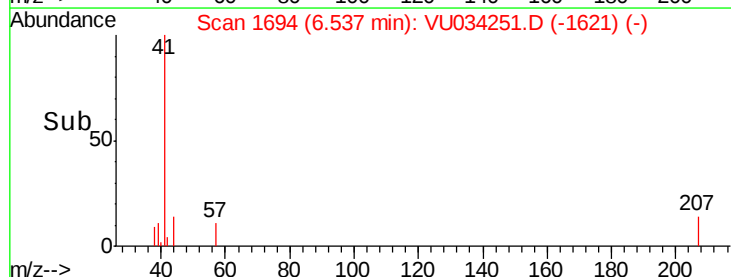
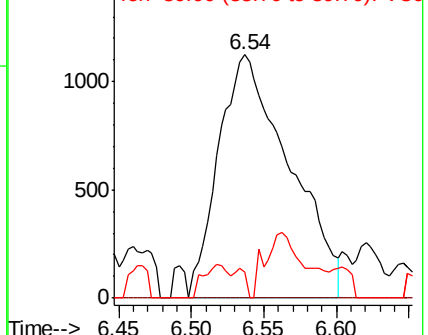
39 0.0 40.3 60.5#

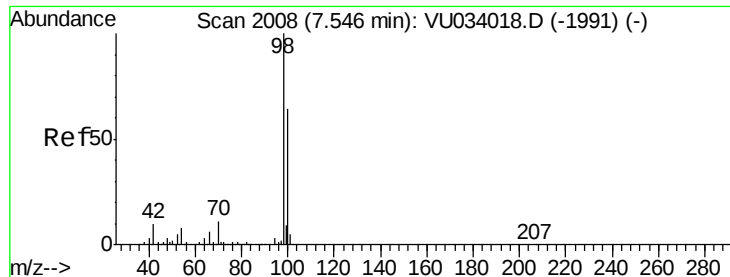


Abundance Ion 41.00 (40.70 to 41.70): VU034251.D (-1621) (-)

Ion 69.00 (68.70 to 69.70): VU034251.D (-1621) (-)

Ion 39.00 (38.70 to 39.70): VU034251.D (-1621) (-)





#50

Toluene-d8

Concen: 49.703 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034251.D

Acq: 04 Sep 2019 12:38

Instrument :

MSVOA_U

ClientSampleId :

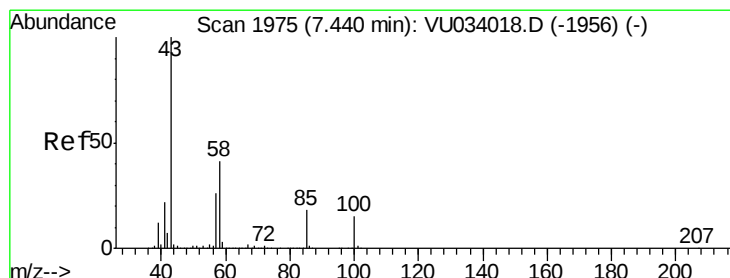
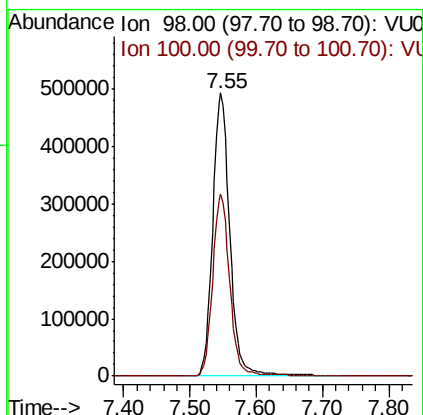
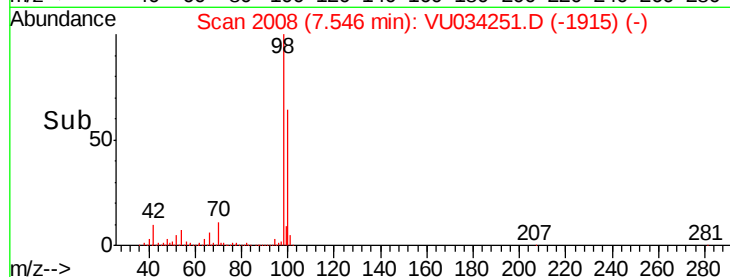
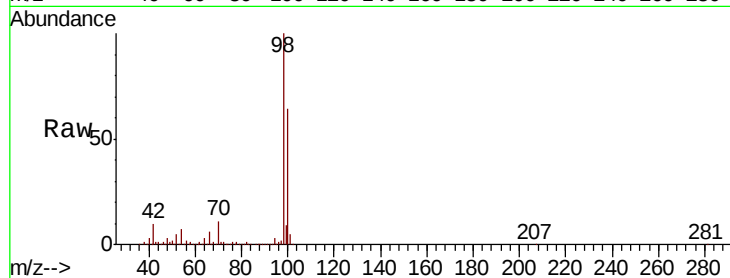
T3-S-B3-(2.5)

Tgt Ion: 98 Resp: 883988

Ion Ratio Lower Upper

98 100

100 64.2 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 5.593 ug/l

RT: 7.40 min Scan# 1964

Delta R.T. -0.04 min

Lab File: VU034251.D

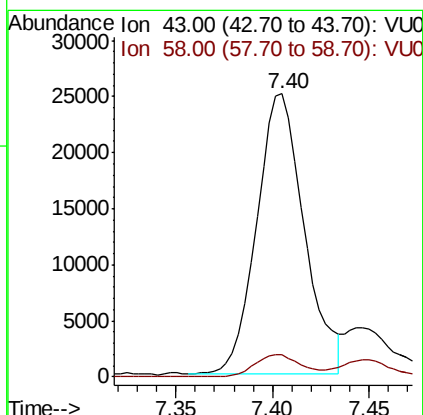
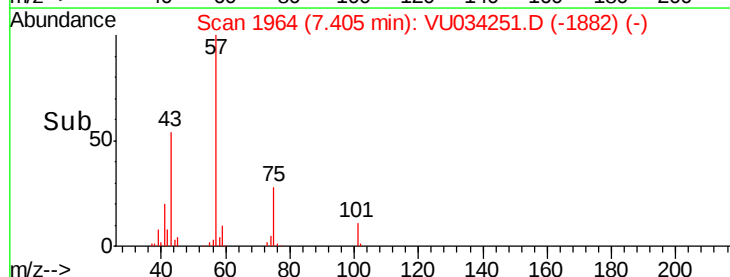
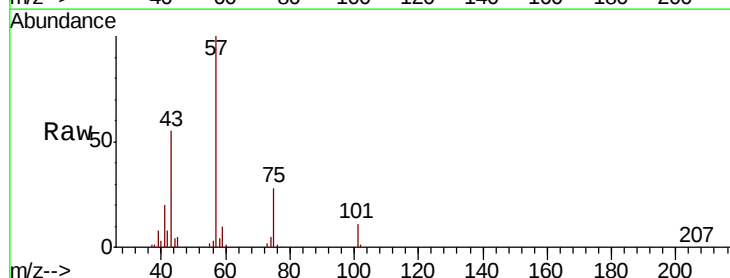
Acq: 04 Sep 2019 12:38

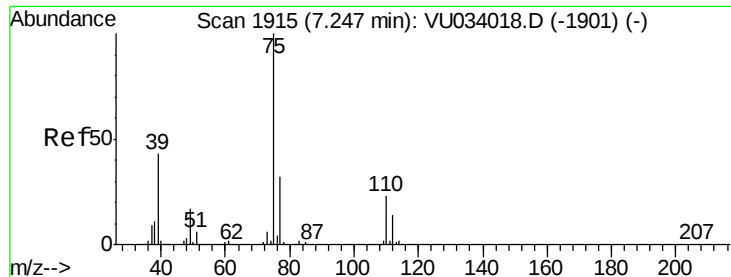
Tgt Ion: 43 Resp: 42628

Ion Ratio Lower Upper

43 100

58 8.0 32.2 48.4#



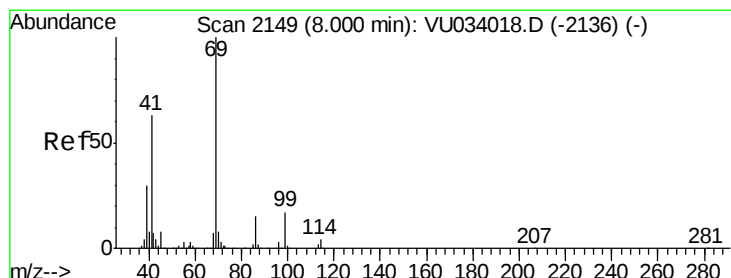
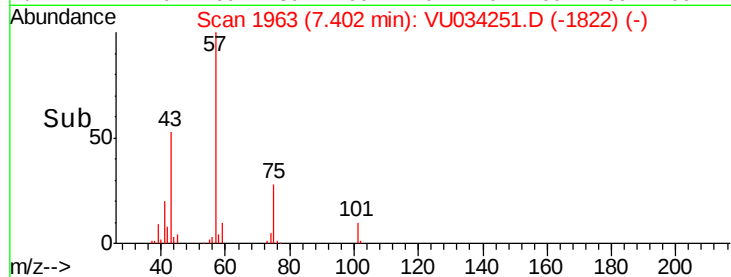
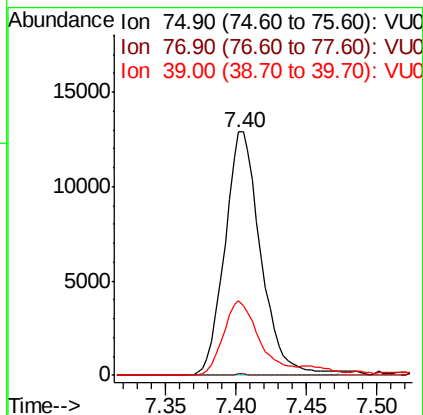
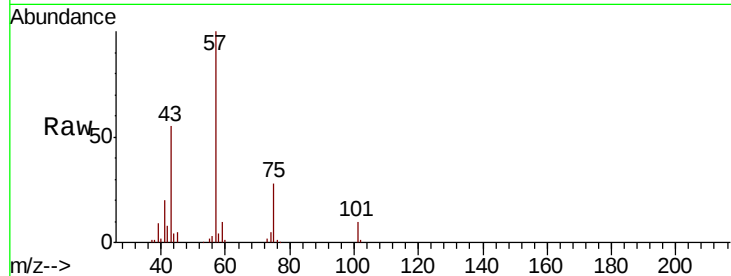


#54

cis-1,3-Dichloropropene
 Concen: 2.780 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034251.D
 Acq: 04 Sep 2019 12:38

Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-B3-(2.5)

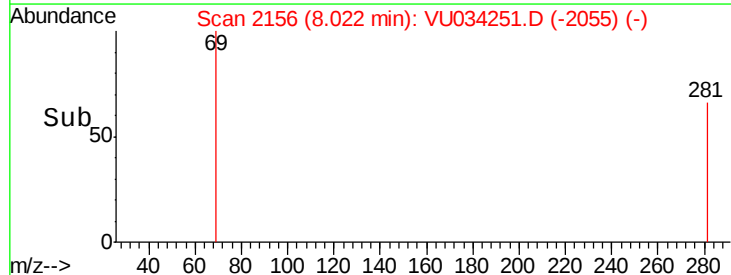
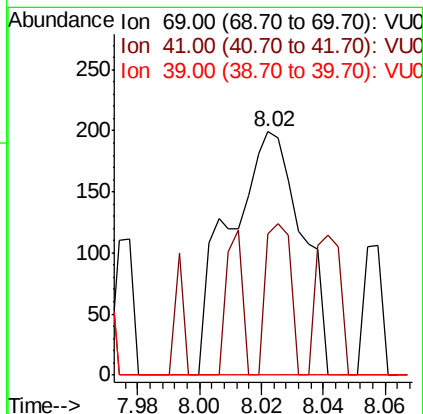
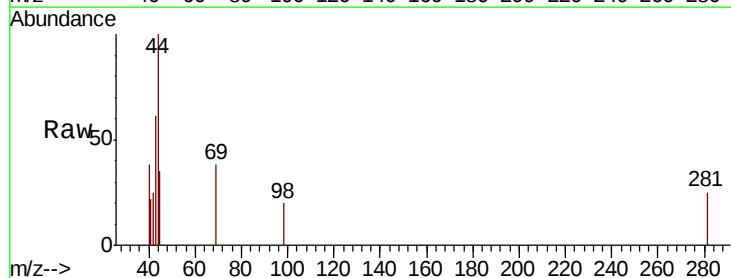
Tgt Ion: 75 Resp: 22918
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.2 37.8#
 39 30.4 34.6 51.8#

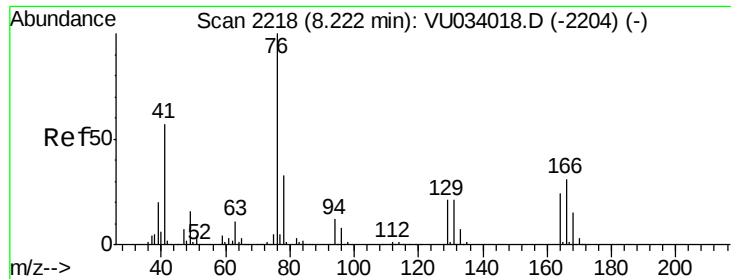


#56

Ethyl methacrylate
 Concen: 1.009 ug/l
 RT: 8.02 min Scan# 2156
 Delta R.T. 0.02 min
 Lab File: VU034251.D
 Acq: 04 Sep 2019 12:38

Tgt Ion: 69 Resp: 325
 Ion Ratio Lower Upper
 69 100
 41 0.0 50.7 76.1#
 39 0.0 24.2 36.2#

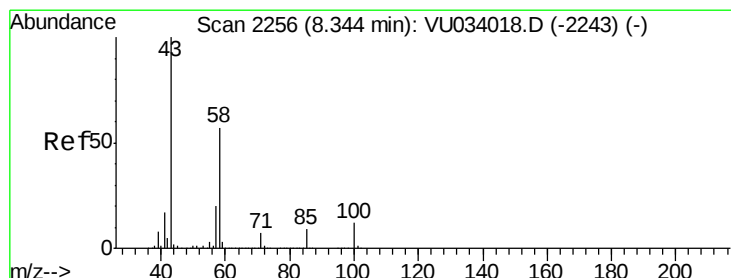
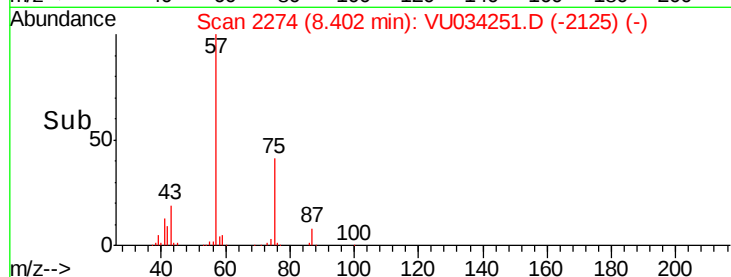
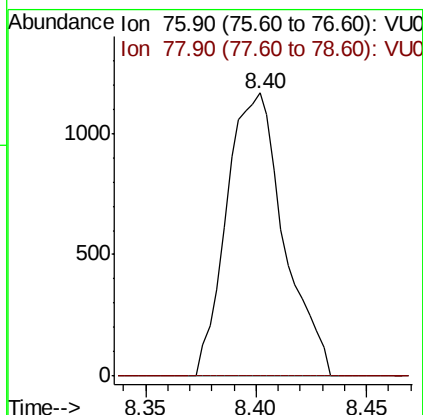
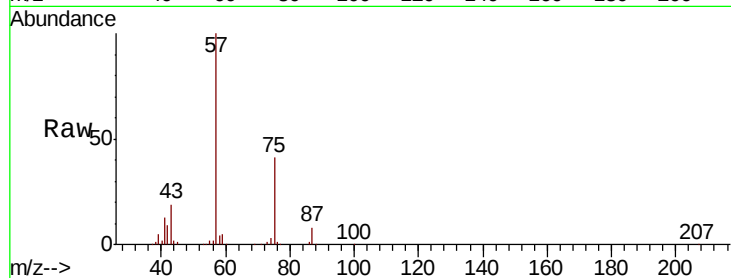




#57
 1,3-Dichloropropane
 Concen: 0.242 ug/l
 RT: 8.40 min Scan# 2274
 Delta R.T. 0.18 min
 Lab File: VU034251.D
 Acq: 04 Sep 2019 12:38

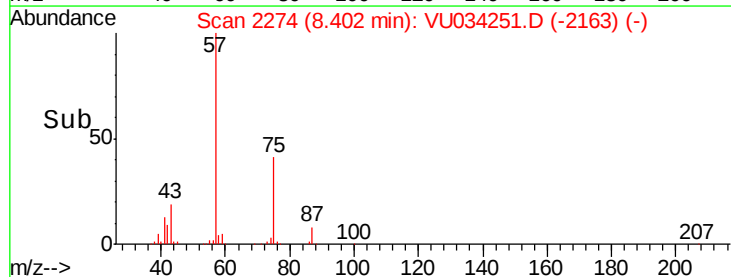
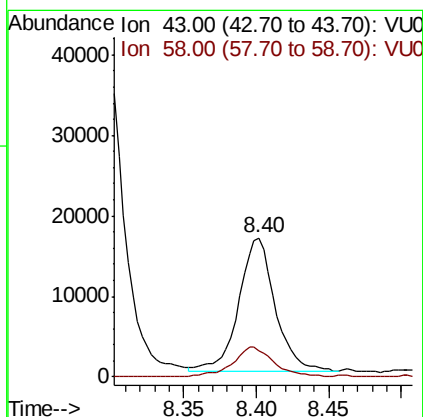
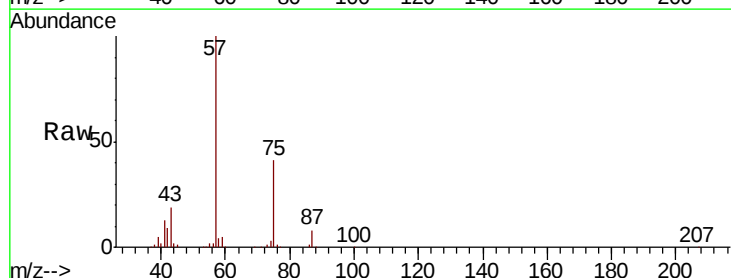
Instrument :
 MSVOA_U
 ClientSampleId :
 T3-S-B3-(2.5)

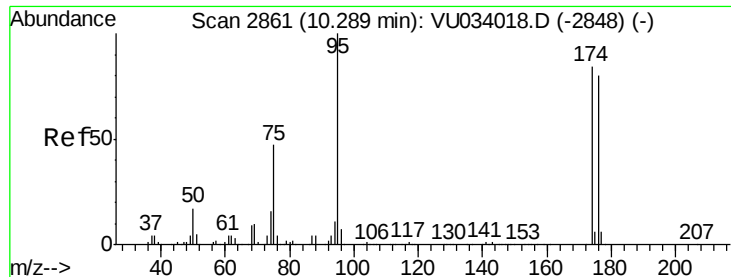
Tgt Ion: 76 Resp: 2096
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 4.997 ug/l
 RT: 8.40 min Scan# 2274
 Delta R.T. 0.06 min
 Lab File: VU034251.D
 Acq: 04 Sep 2019 12:38

Tgt Ion: 43 Resp: 28752
 Ion Ratio Lower Upper
 43 100
 58 25.8 28.4 85.3#

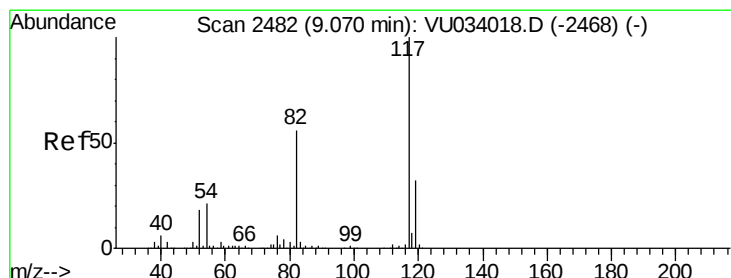
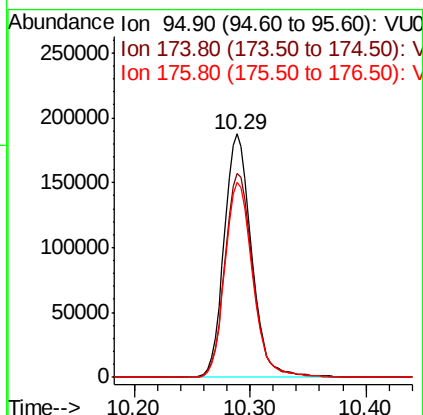
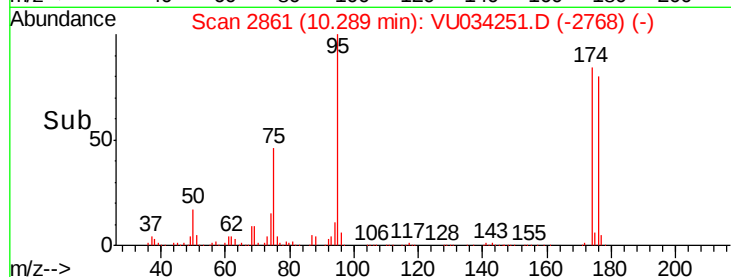
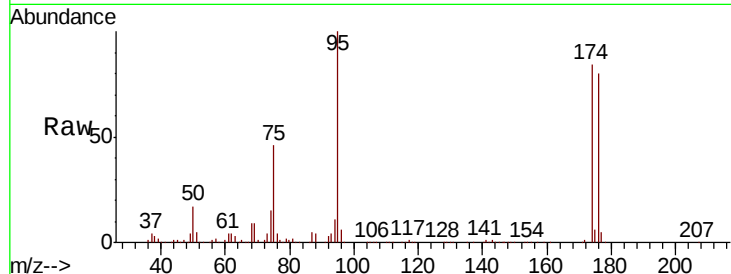




#62
4-Bromofluorobenzene
Concen: 44.105 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034251.D
Acq: 04 Sep 2019 12:38

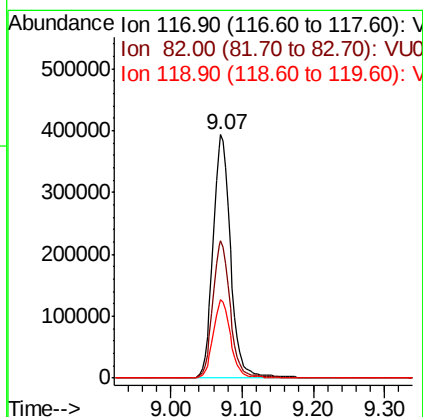
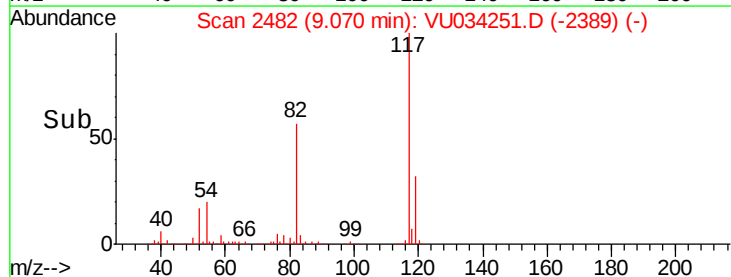
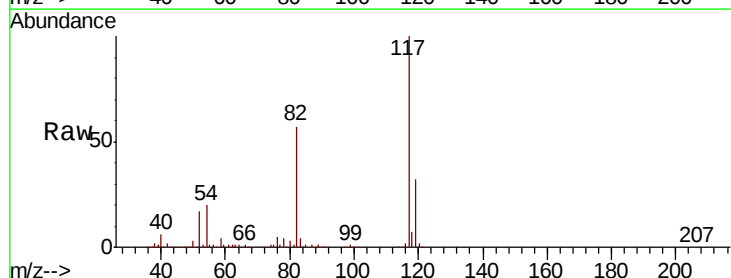
Instrument :
MSVOA_U
ClientSampleId :
T3-S-B3-(2.5)

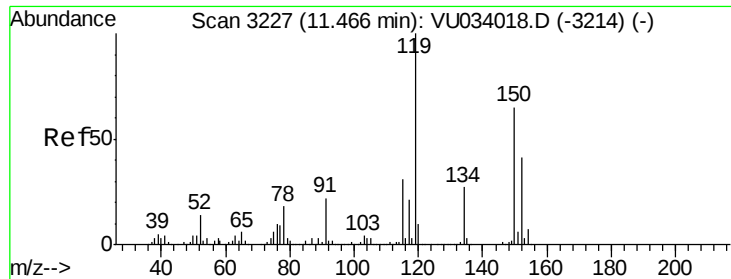
Tgt Ion: 95 Resp: 305133
Ion Ratio Lower Upper
95 100
174 85.7 0.0 168.8
176 81.7 0.0 161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034251.D
Acq: 04 Sep 2019 12:38

Tgt Ion: 117 Resp: 672801
Ion Ratio Lower Upper
117 100
82 56.7 45.1 67.7
119 32.2 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034251.D

Acq: 04 Sep 2019 12:38

Instrument :

MSVOA_U

ClientSampleId :

T3-S-B3-(2.5)

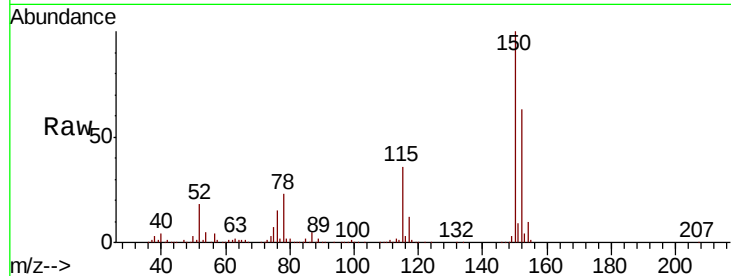
Tgt Ion:152 Resp: 328805

Ion Ratio Lower Upper

152 100

115 56.6 41.1 123.3

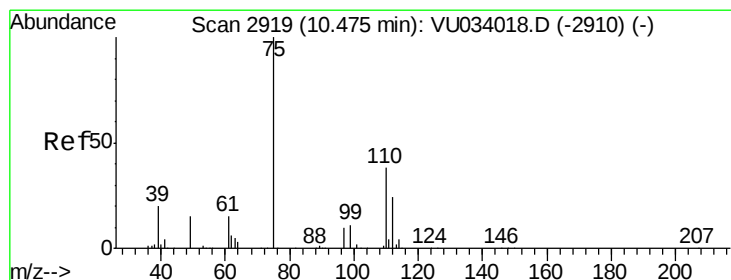
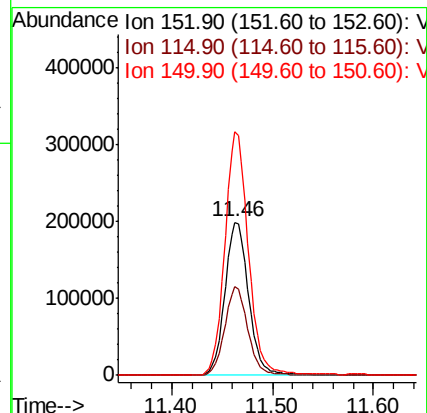
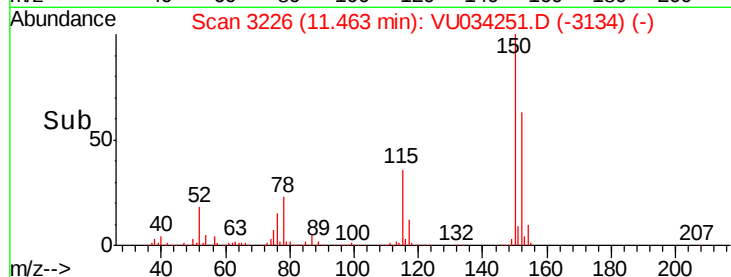
150 156.6 0.0 348.8



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



#76

1,2,3-Trichloropropane

Concen: 19.311 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034251.D

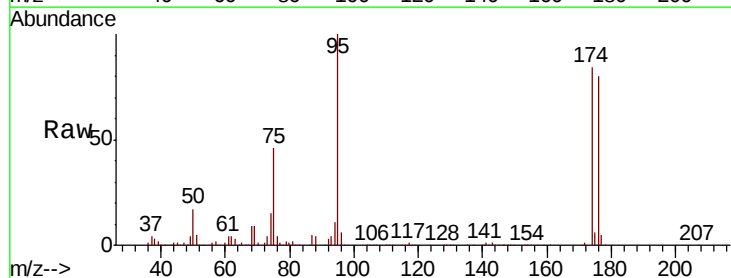
Acq: 04 Sep 2019 12:38

Tgt Ion: 75 Resp: 143105

Ion Ratio Lower Upper

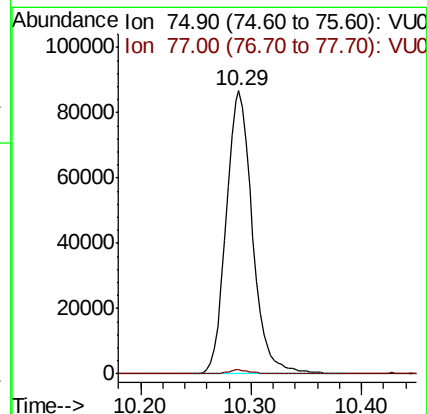
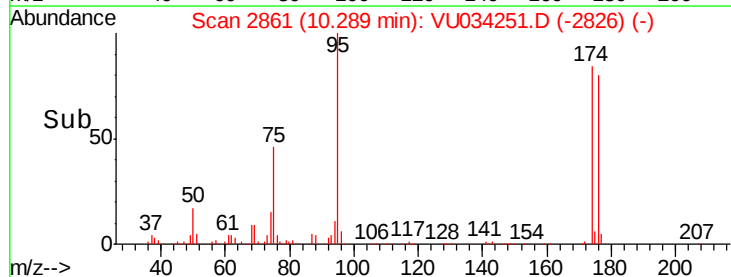
75 100

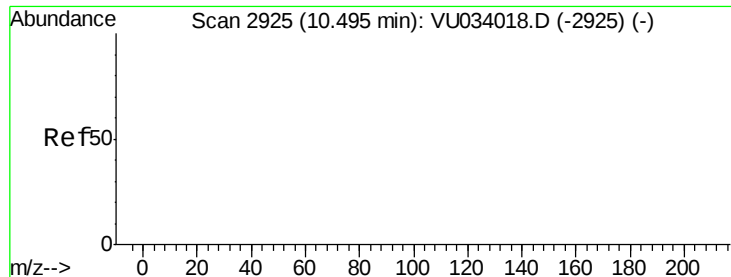
77 1.2 20.1 60.2#



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: 65.023 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034251.D

Acq: 04 Sep 2019 12:38

Instrument :

MSVOA_U

ClientSampleId :

T3-S-B3-(2.5)

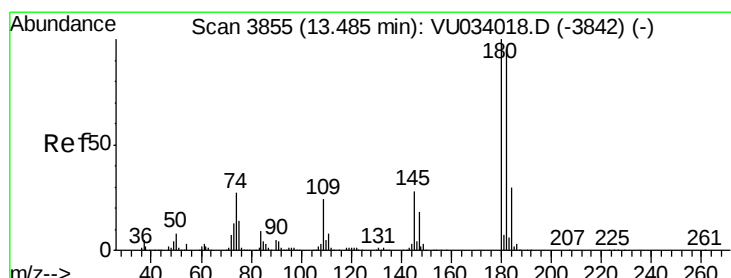
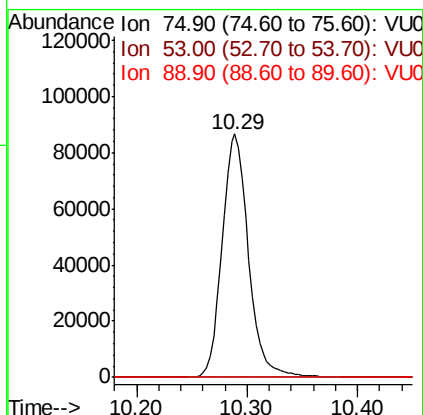
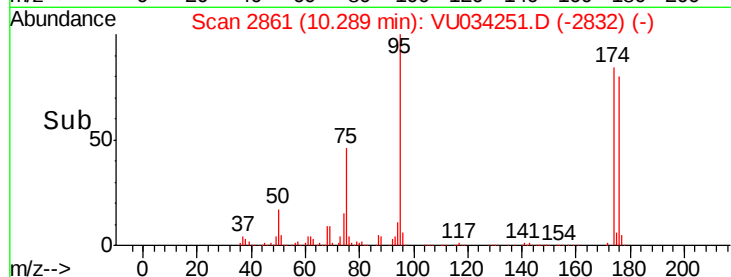
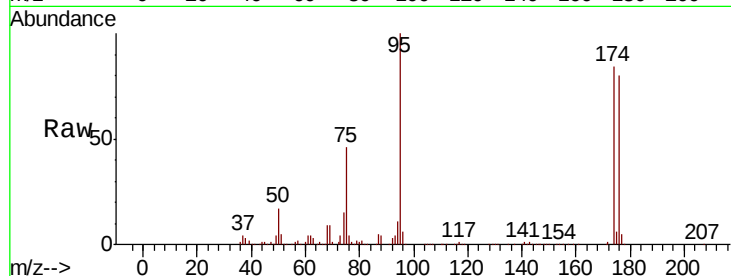
Tgt Ion: 75 Resp: 143105

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0



#93

1,2,4-Trichlorobenzene

Concen: 1.135 ug/l

RT: 13.52 min Scan# 3866

Delta R.T. 0.04 min

Lab File: VU034251.D

Acq: 04 Sep 2019 12:38

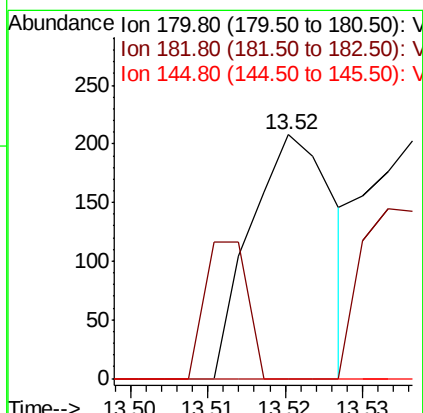
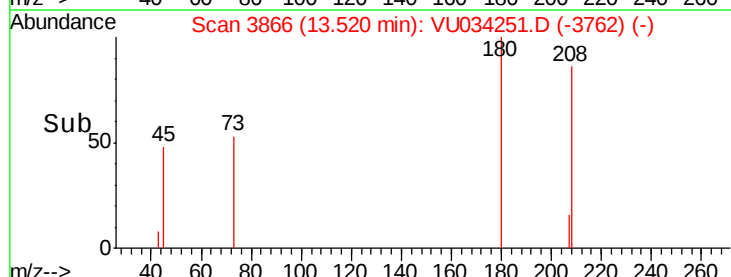
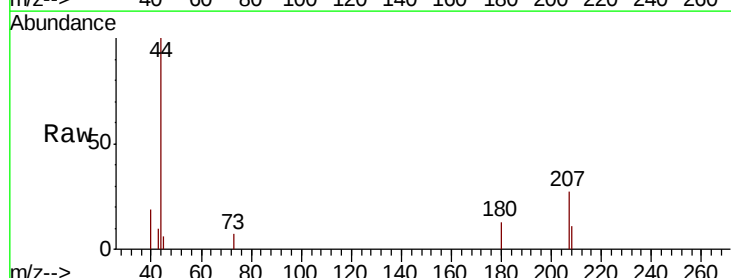
Tgt Ion: 180 Resp: 155

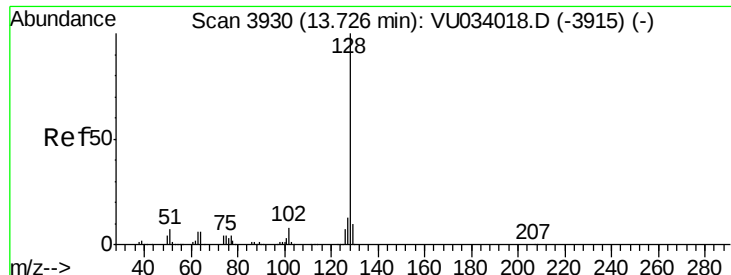
Ion Ratio Lower Upper

180 100

182 29.0 47.4 142.2#

145 0.0 14.1 42.3#





#95

Naphthalene

Concen: 1.849 ug/l

RT: 13.78 min Scan# 3947

Delta R.T. 0.05 min

Lab File: VU034251.D

Acq: 04 Sep 2019 12:38

Instrument :

MSVOA_U

ClientSampleId :

T3-S-B3-(2.5)

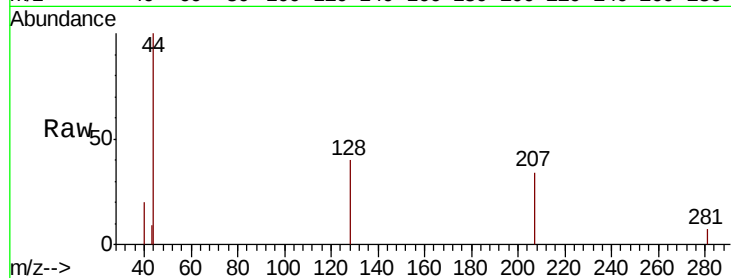
Tgt Ion:128 Resp: 1254

Ion Ratio Lower Upper

128 100

127 3.6 10.2 15.4#

129 0.0 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

