

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090319\
 Data File : VU034201.D
 Acq On : 02 Sep 2019 14:49
 Operator : JC/SP
 Sample : K4544-35
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C1-(2.25)

Quant Time: Sep 03 05:54:53 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	436595	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	712300	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	708364	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	340593	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	280239	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
35) Dibromofluoromethane	4.86	113	234953	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	
50) Toluene-d8	7.55	98	920285	49.75	ug/l	0.00
Spiked Amount			Recovery	=	99.50%	
62) 4-Bromofluorobenzene	10.29	95	322380	44.80	ug/l	0.00
Spiked Amount			Recovery	=	89.60%	

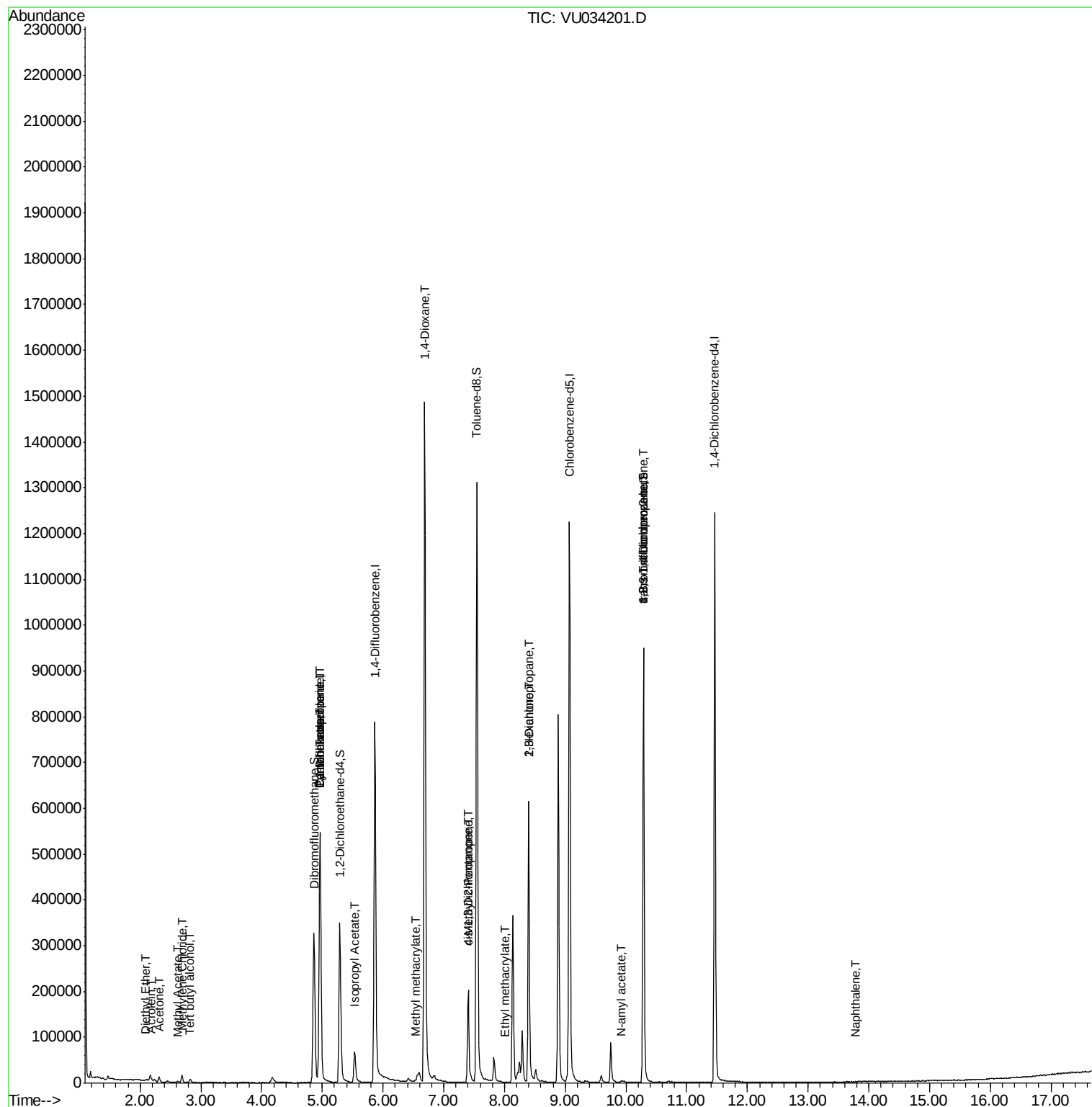
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	490	Below Cal		93
5) Bromomethane	1.63	94	547	Below Cal	#	66
8) Diethyl Ether	2.10	74	669	0.231	ug/l	99
11) Tert butyl alcohol	2.83	59	4277	3.315	ug/l #	73
13) Acrolein	2.19	56	111	0.205	ug/l #	1
16) Acetone	2.31	43	13228	4.634	ug/l #	88
18) Methyl Acetate	2.61	43	4036	0.547	ug/l #	85
20) Methylene Chloride	2.69	84	7273	1.346	ug/l	93
31) Cyclohexane	4.96	56	7726	0.925	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	32264	4.789	ug/l #	48
38) Carbon Tetrachloride	4.96	117	39125	6.016	ug/l #	17
43) Isopropyl Acetate	5.53	43	82881	7.221	ug/l	97
48) Methyl methacrylate	6.53	41	5574	1.006	ug/l #	14
49) 1,4-Dioxane	6.68	88	156	1.124	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	78089	9.851	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	37721	4.399	ug/l #	62
56) Ethyl methacrylate	8.00	69	85	0.981	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6284	0.697	ug/l #	42
59) 2-Hexanone	8.40	43	83487	13.951	ug/l #	54
74) N-amyl acetate	9.92	43	2375	0.247	ug/l #	46
76) 1,2,3-Trichloropropane	10.29	75	156276	20.358	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	156276	68.550	ug/l #	100
95) Naphthalene	13.77	128	20	1.791	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: VU034201.D

Acq: 02 Sep 2019 14:49

Instrument :

MSVOA_U

ClientSampleId :

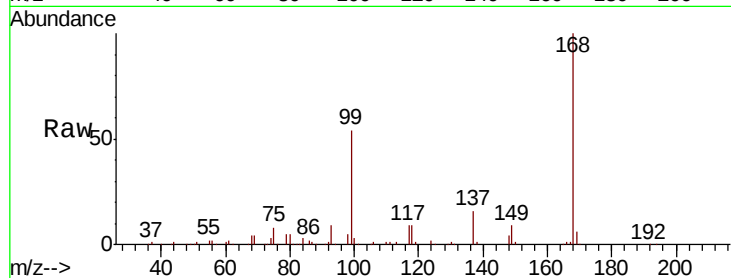
T16-17-C1-(2.25)

Tgt Ion:168 Resp: 436595

Ion Ratio Lower Upper

168 100

99 54.1 42.3 63.5



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

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

4.96

200000

150000

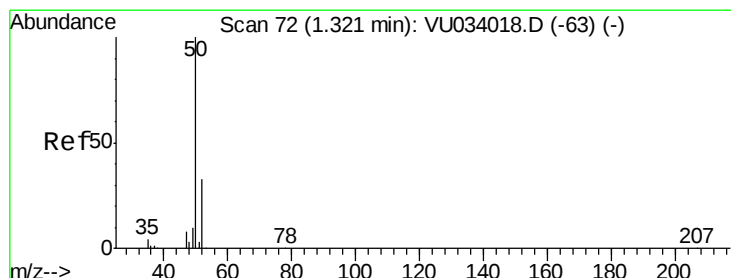
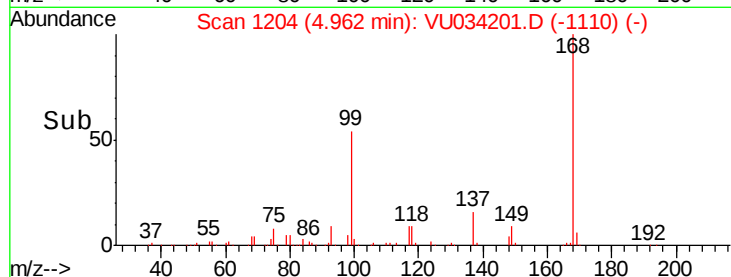
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034201.D

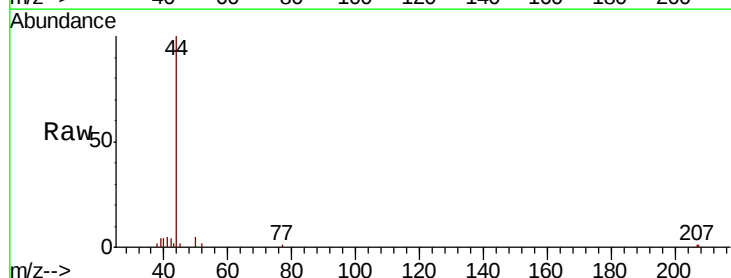
Acq: 02 Sep 2019 14:49

Tgt Ion: 50 Resp: 490

Ion Ratio Lower Upper

50 100

52 29.0 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) (-)

1.33

500

400

300

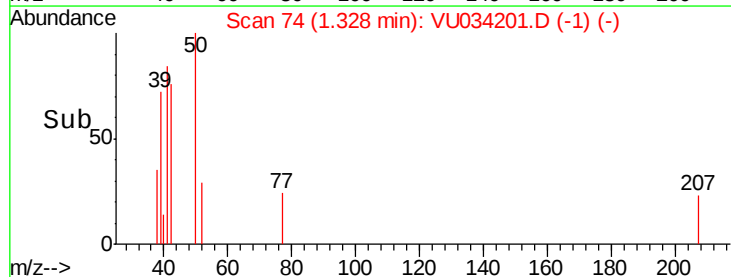
200

100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.03 min

Lab File: VU034201.D

Acq: 02 Sep 2019 14:49

Instrument :

MSVOA_U

ClientSampleId :

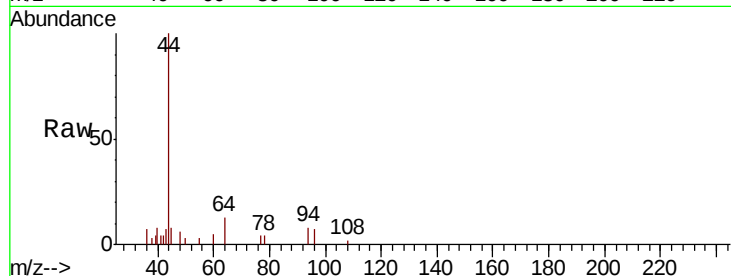
T16-17-C1-(2.25)

Tgt Ion: 94 Resp: 547

Ion Ratio Lower Upper

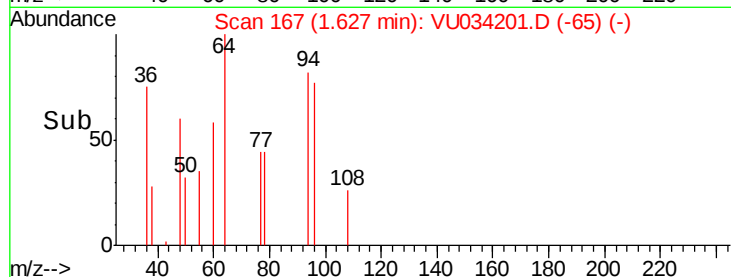
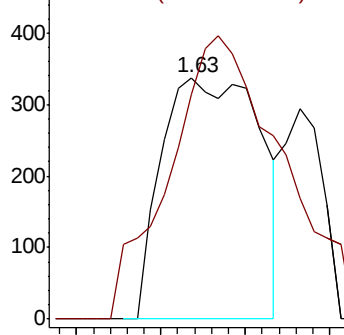
94 100

96 62.1 76.3 114.5#

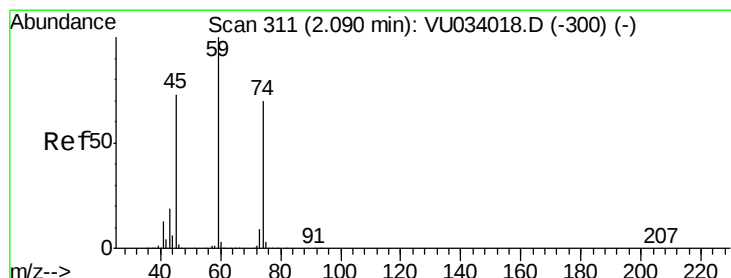


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time-->



#8

Diethyl Ether

Concen: 0.231 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.01 min

Lab File: VU034201.D

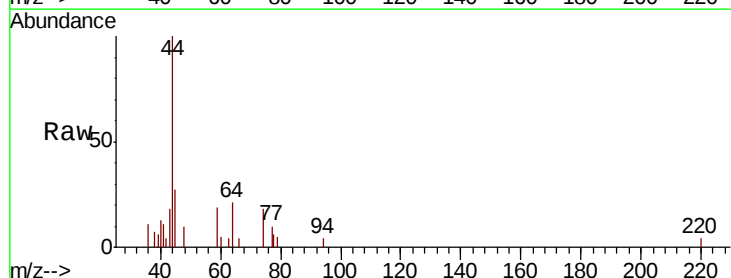
Acq: 02 Sep 2019 14:49

Tgt Ion: 74 Resp: 669

Ion Ratio Lower Upper

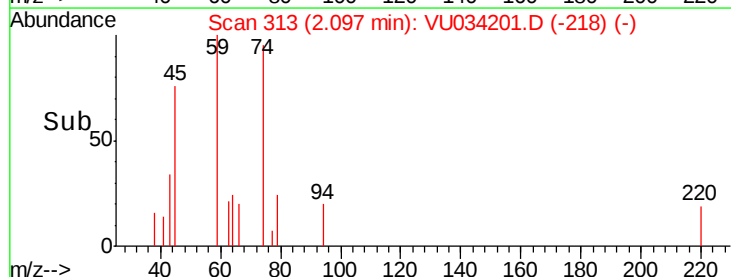
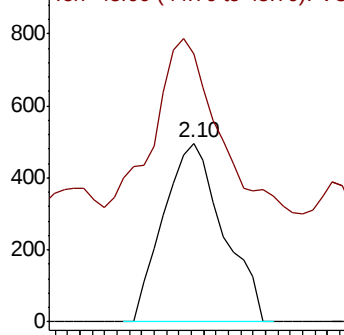
74 100

45 102.7 51.8 155.5

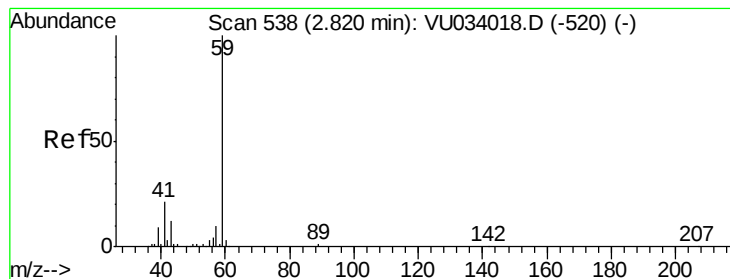


Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0



Time-->



#11

Tert butyl alcohol

Concen: 3.315 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034201.D

Acq: 02 Sep 2019 14:49

Instrument :

MSVOA_U

ClientSampleId :

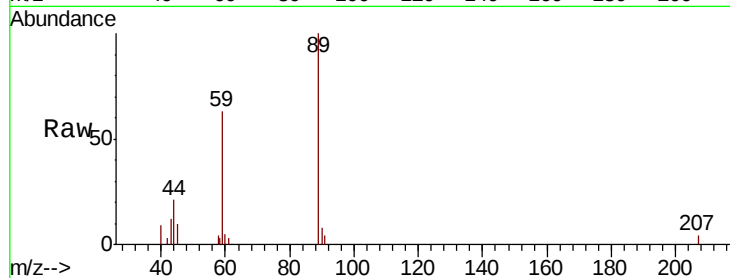
T16-17-C1-(2.25)

Tgt Ion: 59 Resp: 4277

Ion Ratio Lower Upper

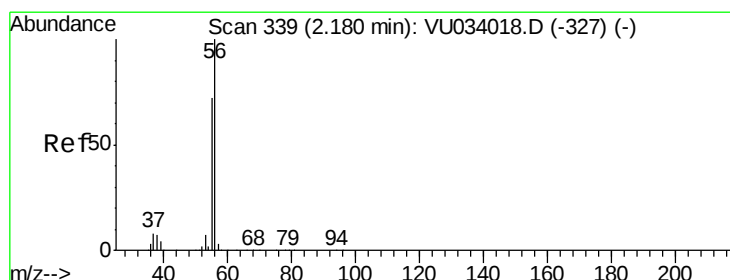
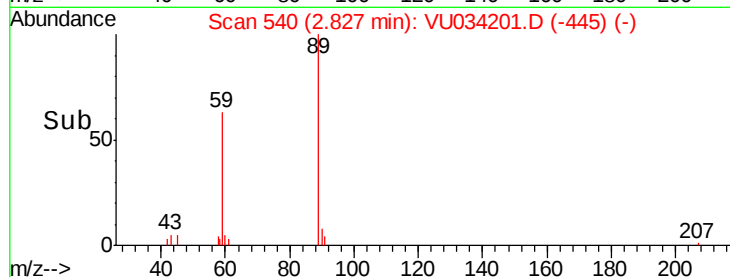
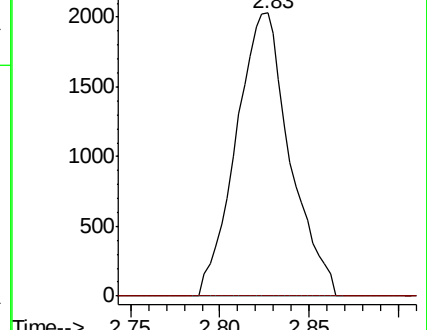
59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034201.D (-520) (-)

Ion 57.00 (56.70 to 57.70): VU034201.D (-520) (-)



#13

Acrolein

Concen: 0.205 ug/l

RT: 2.19 min Scan# 341

Delta R.T. 0.01 min

Lab File: VU034201.D

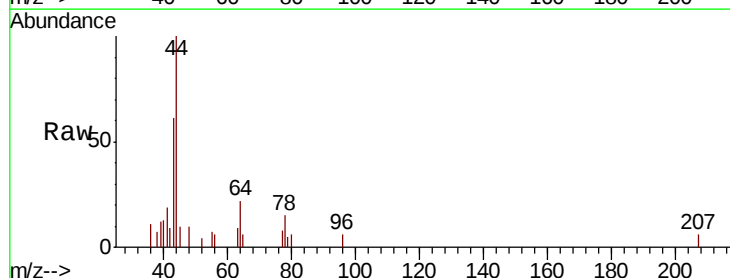
Acq: 02 Sep 2019 14:49

Tgt Ion: 56 Resp: 111

Ion Ratio Lower Upper

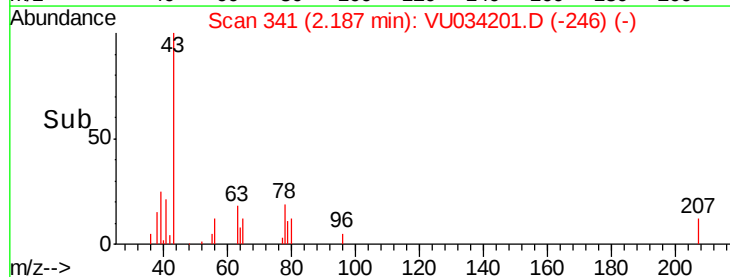
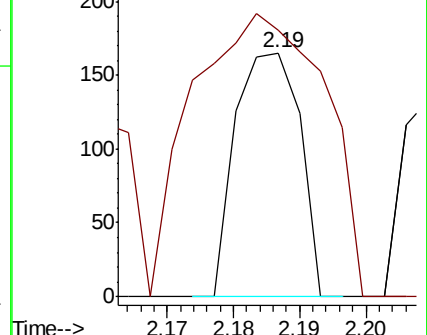
56 100

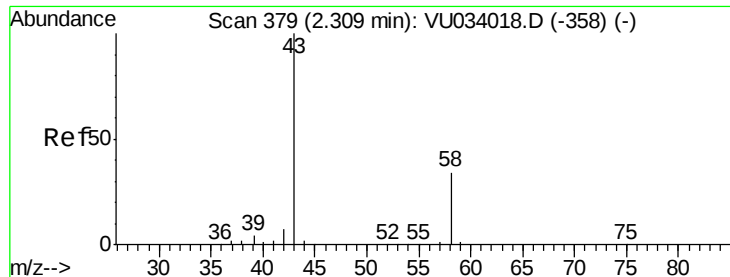
55 240.5 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034201.D (-246) (-)

Ion 55.00 (54.70 to 55.70): VU034201.D (-246) (-)





#16

Acetone

Concen: 4.634 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034201.D

Acq: 02 Sep 2019 14:49

Instrument :

MSVOA_U

ClientSampleId :

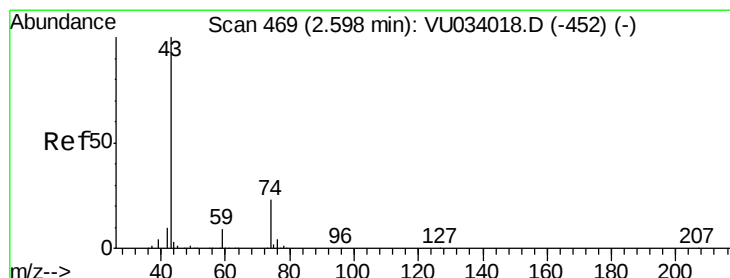
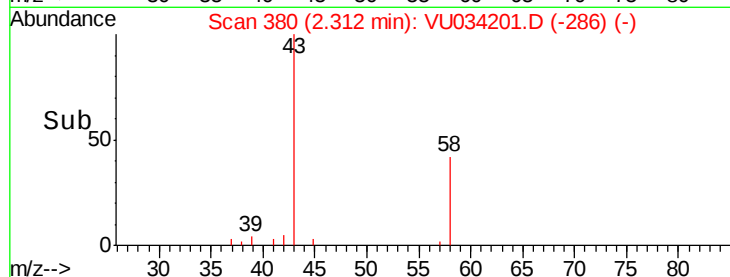
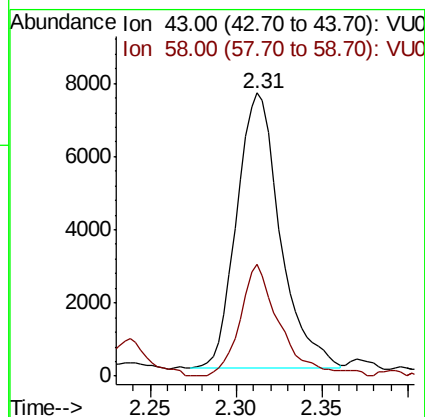
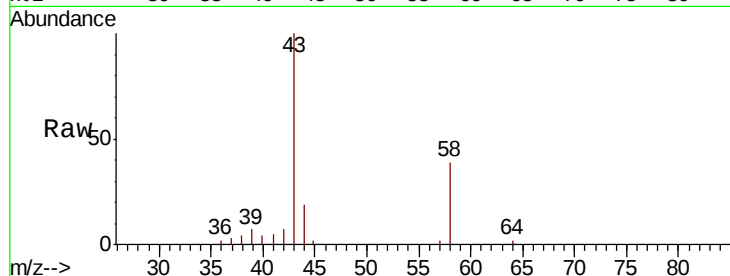
T16-17-C1-(2.25)

Tgt Ion: 43 Resp: 13228

Ion Ratio Lower Upper

43 100

58 40.6 26.8 40.2#



#18

Methyl Acetate

Concen: 0.547 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034201.D

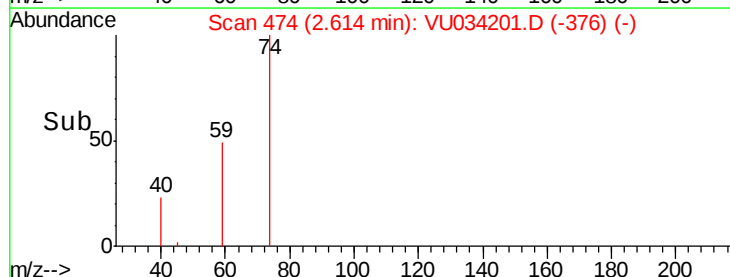
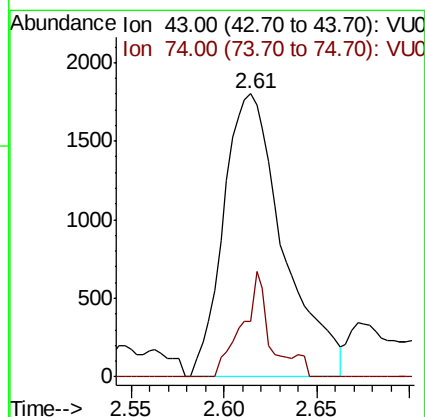
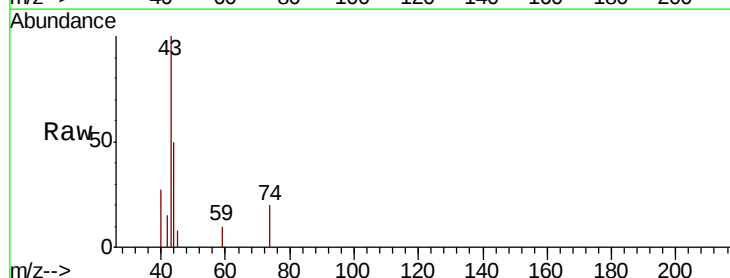
Acq: 02 Sep 2019 14:49

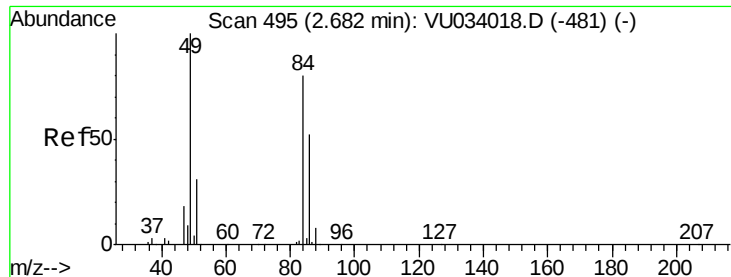
Tgt Ion: 43 Resp: 4036

Ion Ratio Lower Upper

43 100

74 16.6 19.2 28.8#

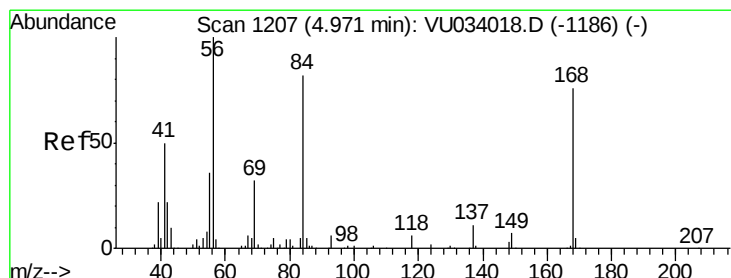
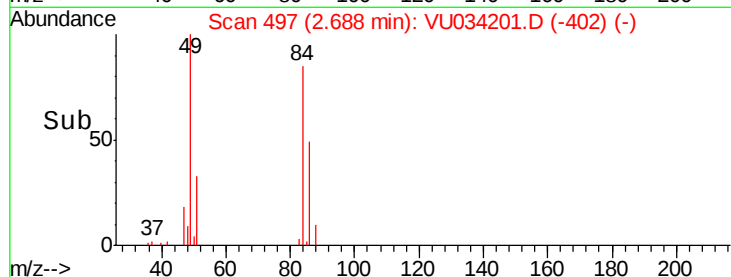
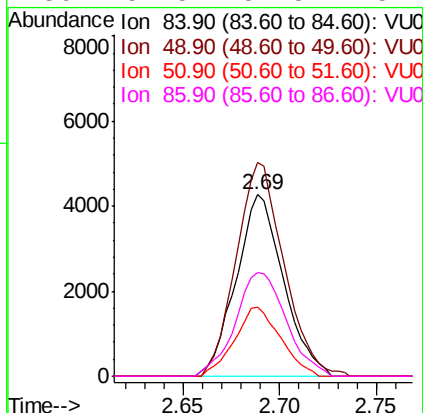
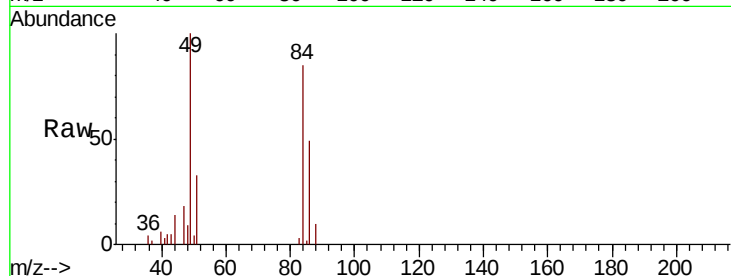




#20
Methylene Chloride
Concen: 1.346 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034201.D
Acq: 02 Sep 2019 14:49

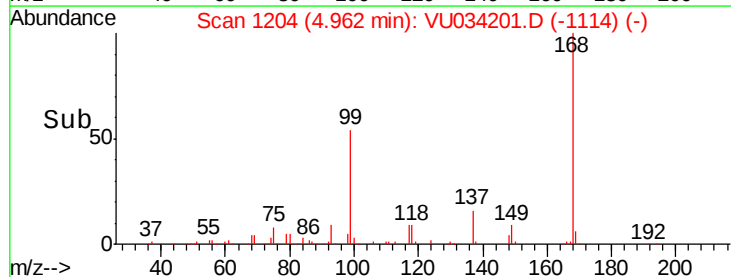
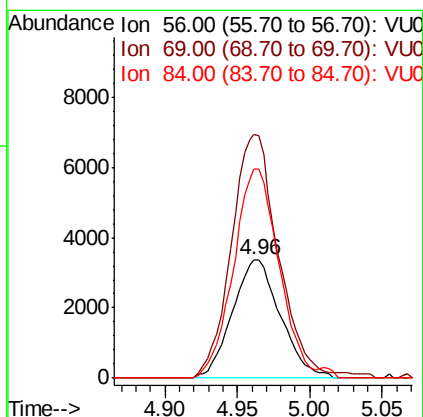
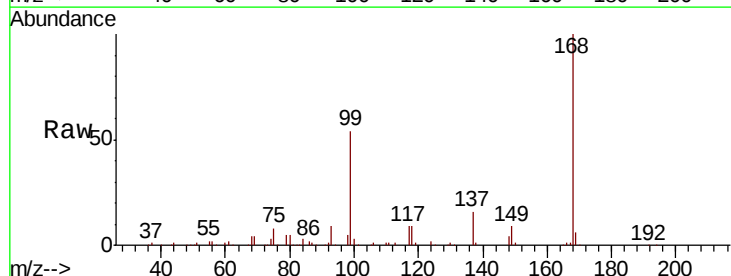
Instrument :
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T16-17-C1-(2.25)

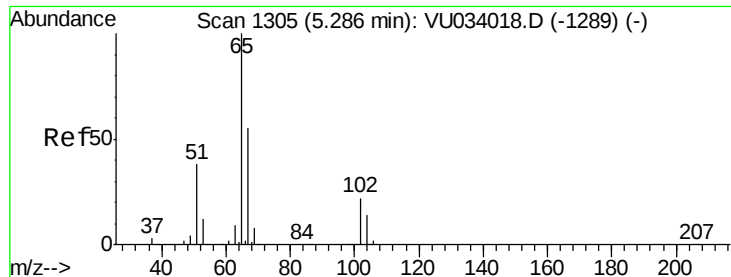
Tgt Ion: 84 Resp: 7273
Ion Ratio Lower Upper
84 100
49 117.7 100.2 150.4
51 38.3 30.8 46.2
86 57.5 52.5 78.7



#31
Cyclohexane
Concen: 0.925 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034201.D
Acq: 02 Sep 2019 14:49

Tgt Ion: 56 Resp: 7726
Ion Ratio Lower Upper
56 100
69 205.6 25.4 38.0#
84 176.5 65.8 98.8#

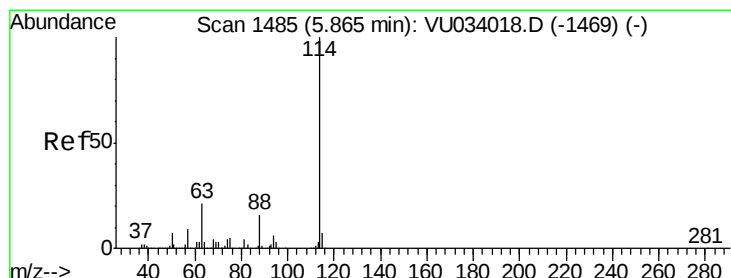
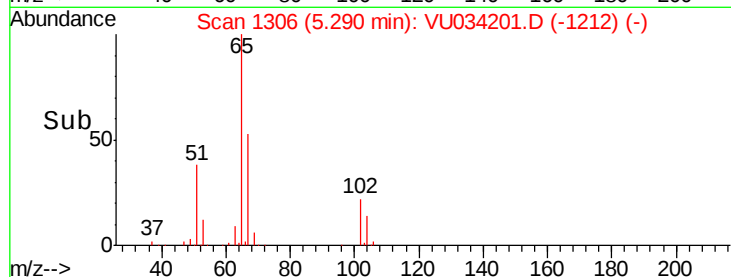
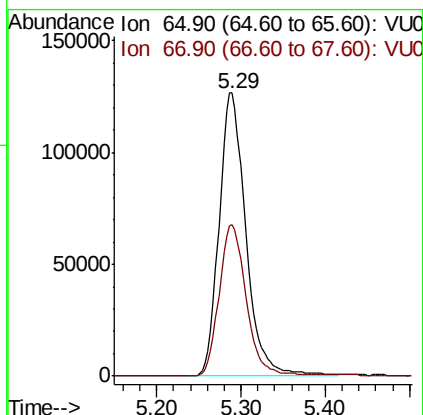
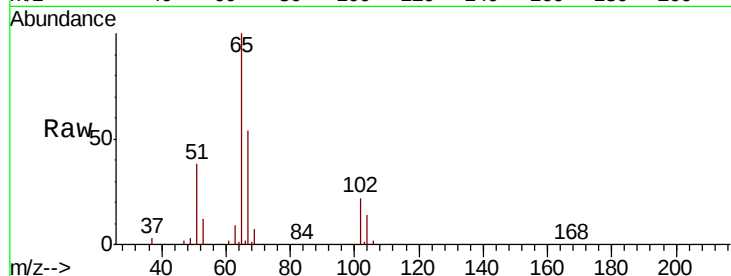




#33
 1,2-Dichloroethane-d4
 Concen: 50.094 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034201.D
 Acq: 02 Sep 2019 14:49

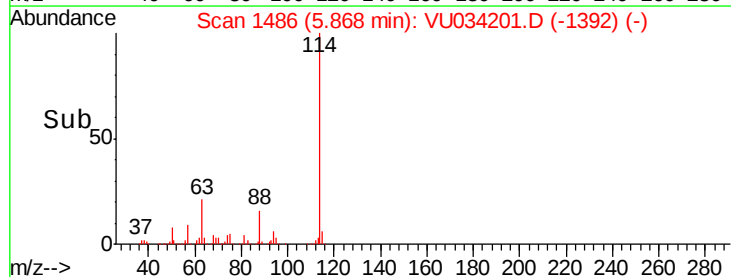
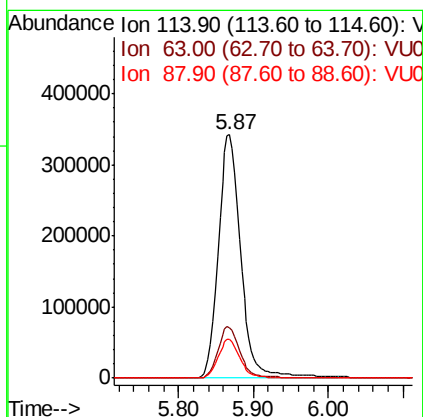
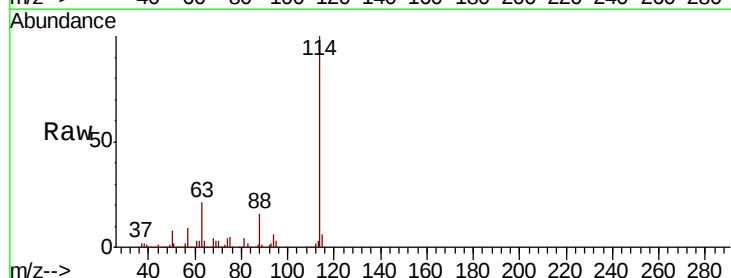
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C1-(2.25)

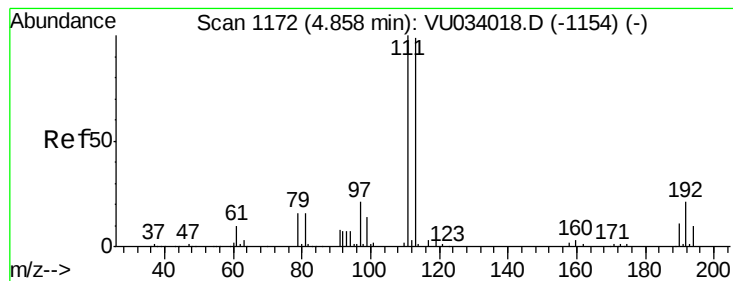
Tgt Ion: 65 Resp: 280239
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034201.D
 Acq: 02 Sep 2019 14:49

Tgt Ion: 114 Resp: 712300
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 42.0
 88 16.1 0.0 32.0





#35

Dibromofluoromethane

Concen: 47.557 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034201.D

Acq: 02 Sep 2019 14:49

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C1-(2.25)

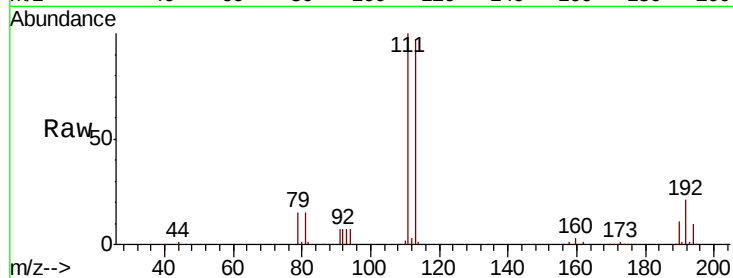
Tgt Ion:113 Resp: 234953

Ion Ratio Lower Upper

113 100

111 103.3 81.7 122.5

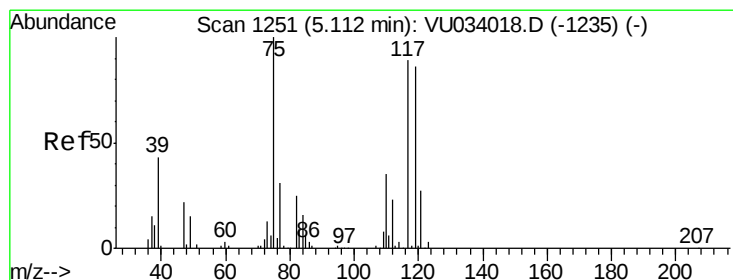
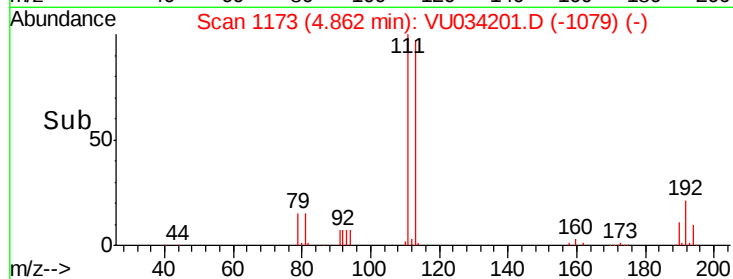
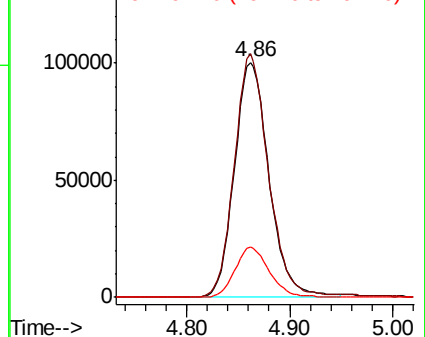
192 21.1 17.1 25.7



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: 4.789 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034201.D

Acq: 02 Sep 2019 14:49

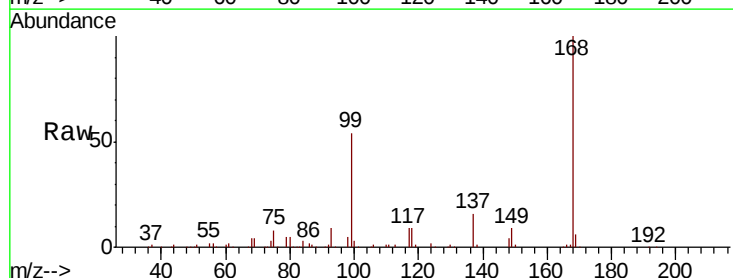
Tgt Ion: 75 Resp: 32264

Ion Ratio Lower Upper

75 100

110 7.8 17.8 53.5#

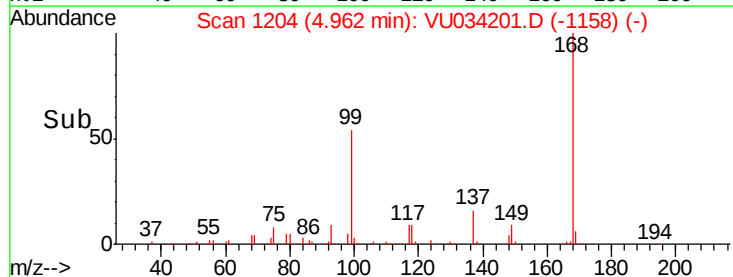
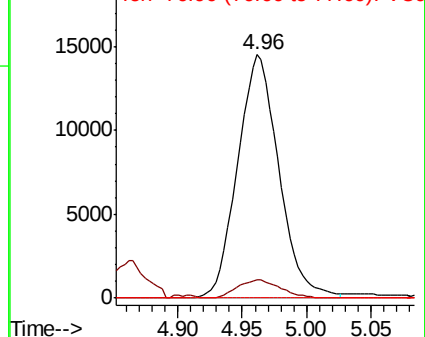
77 0.0 25.0 37.4#

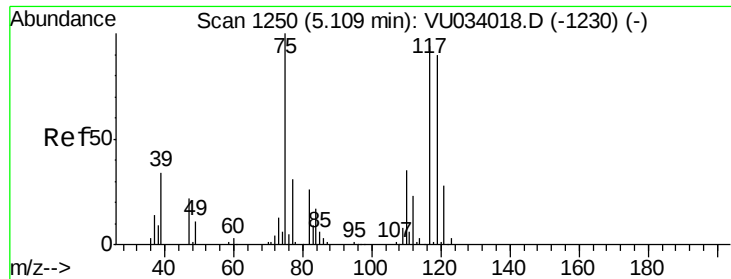


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

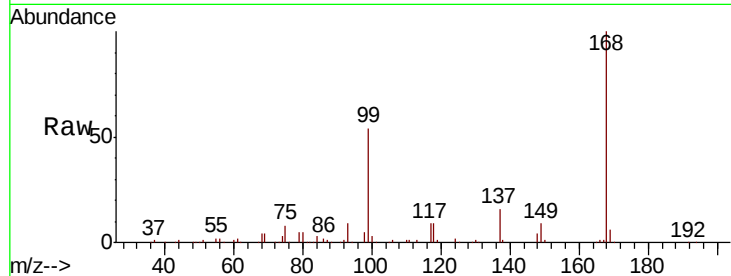




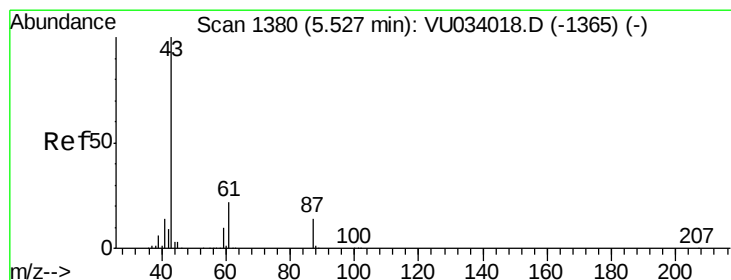
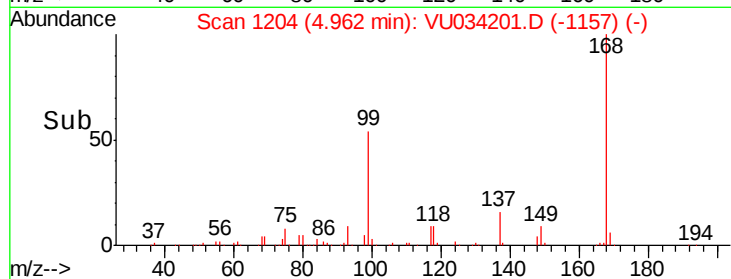
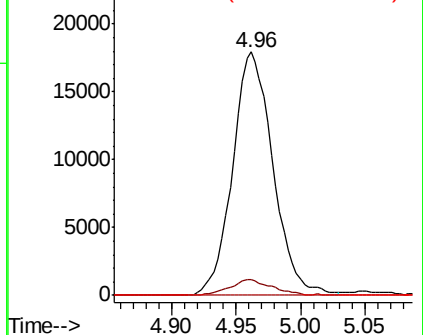
#38
Carbon Tetrachloride
Concen: 6.016 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.15 min
Lab File: VU034201.D
Acq: 02 Sep 2019 14:49

Instrument :
MSVOA_U
ClientSampleId :
T16-17-C1-(2.25)

Tgt Ion:117 Resp: 39125
Ion Ratio Lower Upper
117 100
119 6.3 77.0 115.4#
121 0.0 23.9 35.9#

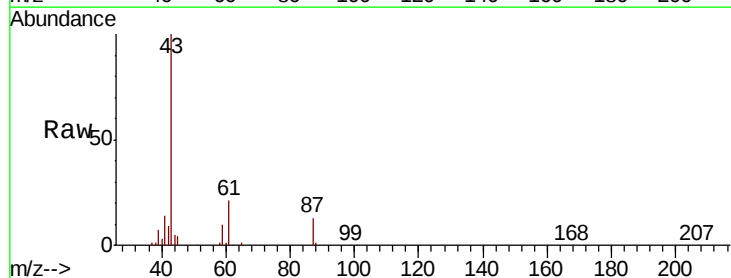


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

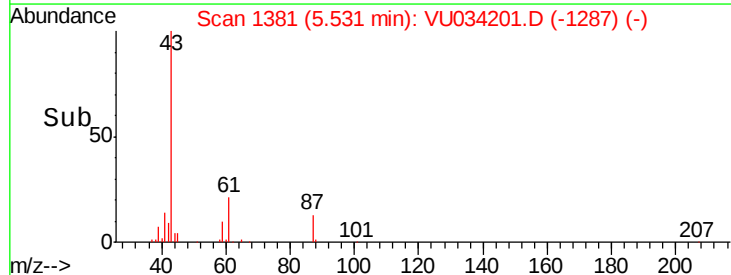
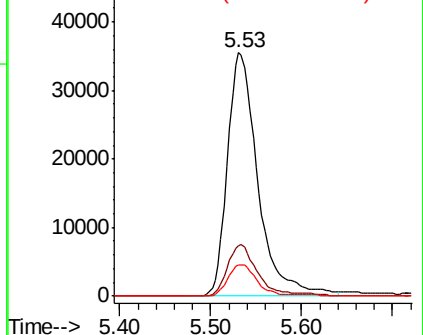


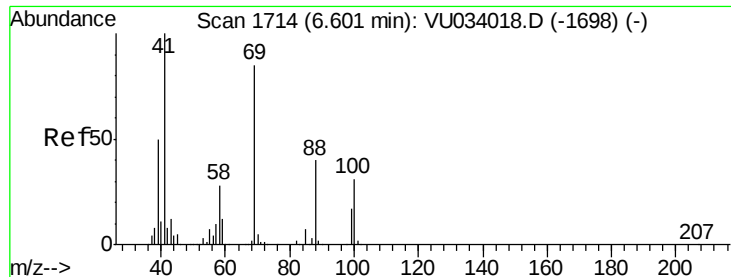
#43
Isopropyl Acetate
Concen: 7.221 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034201.D
Acq: 02 Sep 2019 14:49

Tgt Ion: 43 Resp: 82881
Ion Ratio Lower Upper
43 100
61 20.4 17.2 25.8
87 12.0 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 87.00 (86.70 to 87.70): VU0

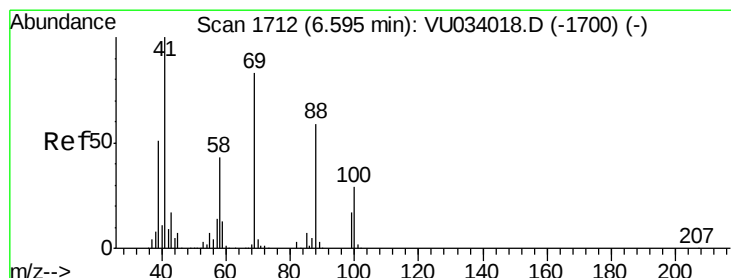
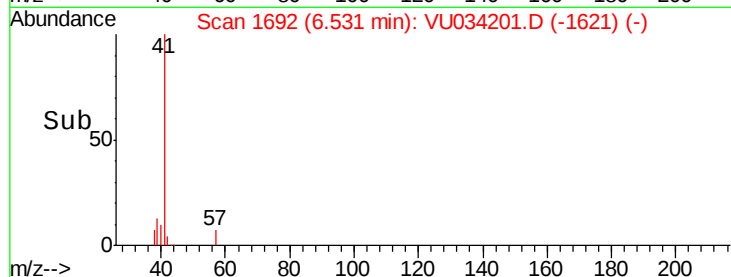
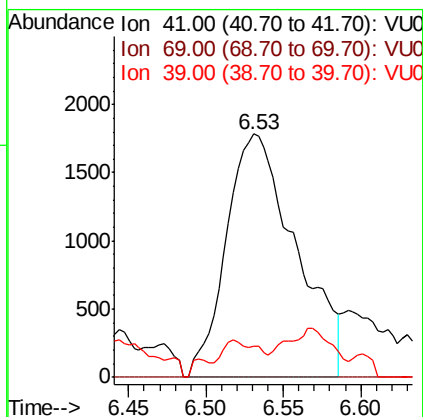
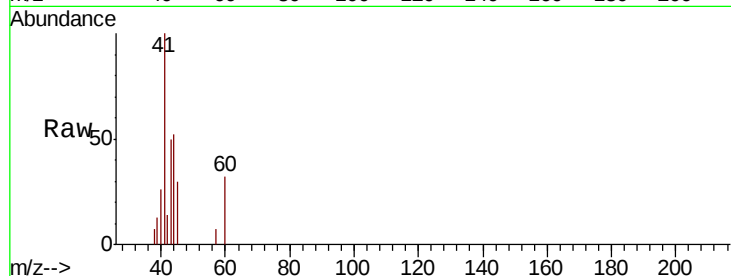




#48
Methyl methacrylate
Concen: 1.006 ug/l
RT: 6.53 min Scan# 1692
Delta R.T. -0.07 min
Lab File: VU034201.D
Acq: 02 Sep 2019 14:49

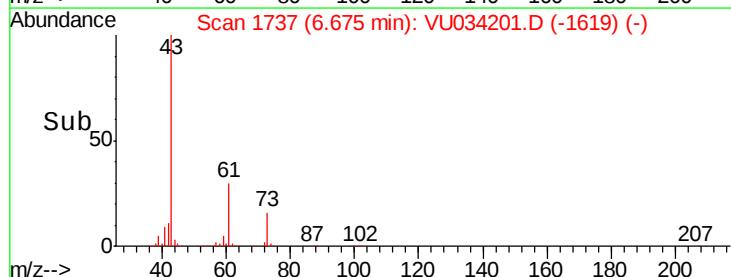
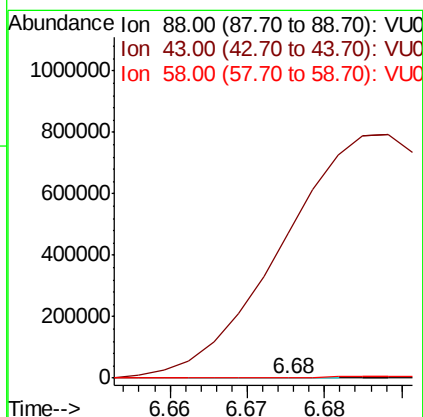
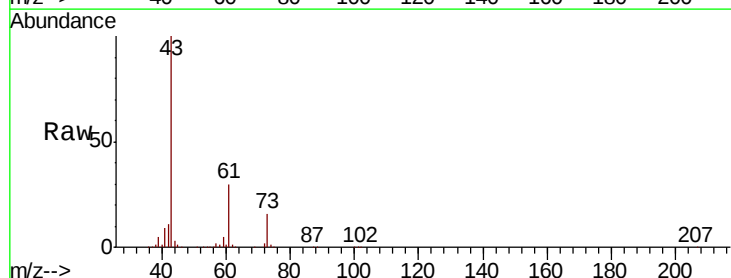
Instrument :
MSVOA_U
ClientSampleId :
T16-17-C1-(2.25)

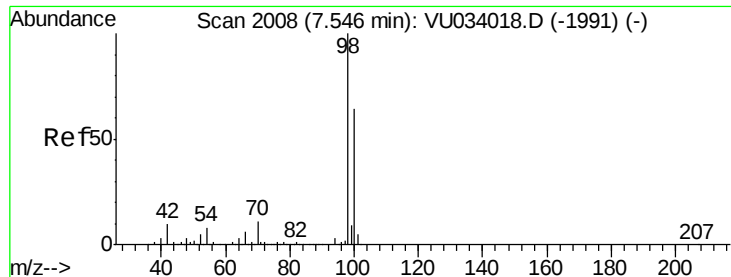
Tgt Ion: 41 Resp: 5574
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 1.124 ug/l
RT: 6.68 min Scan# 1737
Delta R.T. 0.08 min
Lab File: VU034201.D
Acq: 02 Sep 2019 14:49

Tgt Ion: 88 Resp: 156
Ion Ratio Lower Upper
88 100
43 940608.3 24.8 37.2#
58 4891.0 59.3 88.9#





#50

Toluene-d8

Concen: 49.748 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034201.D

Acq: 02 Sep 2019 14:49

Instrument :

MSVOA_U

ClientSampleId :

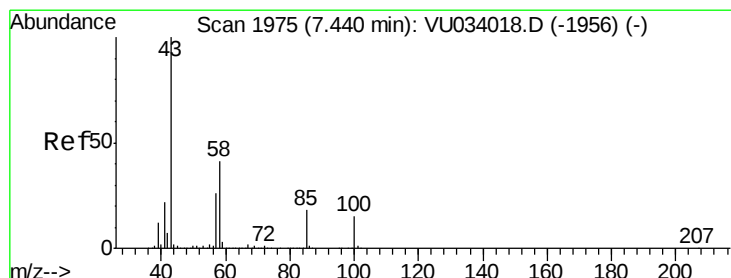
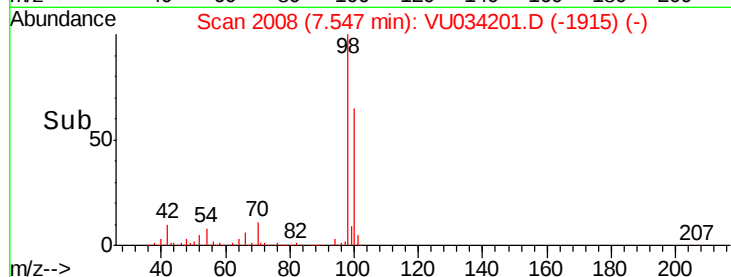
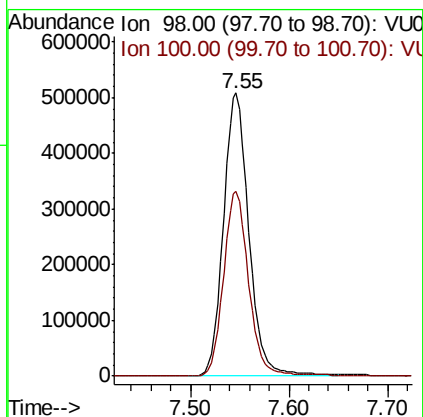
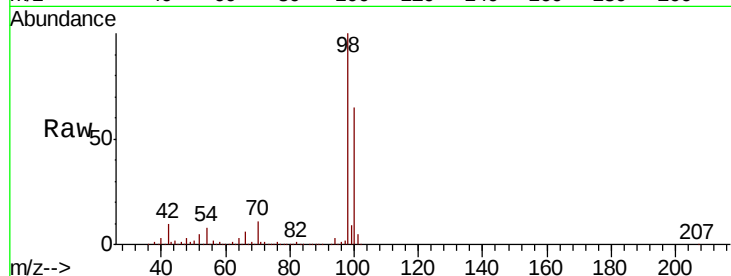
T16-17-C1-(2.25)

Tgt Ion: 98 Resp: 920285

Ion Ratio Lower Upper

98 100

100 64.9 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 9.851 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034201.D

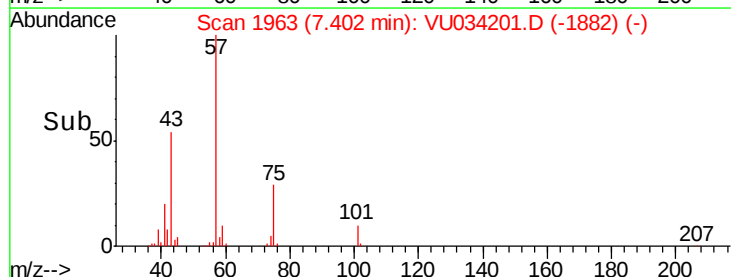
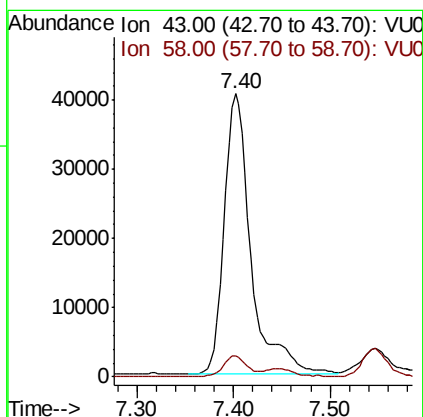
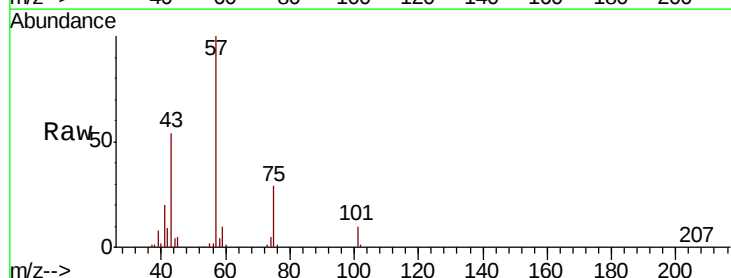
Acq: 02 Sep 2019 14:49

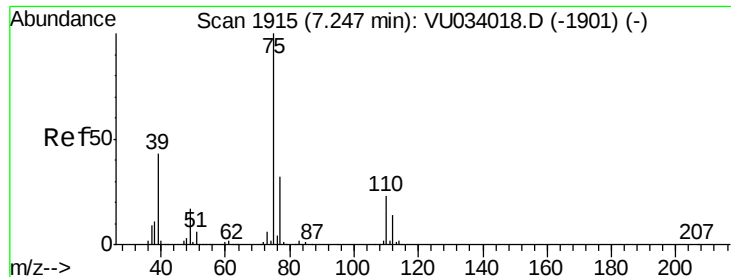
Tgt Ion: 43 Resp: 78089

Ion Ratio Lower Upper

43 100

58 6.6 32.2 48.4#



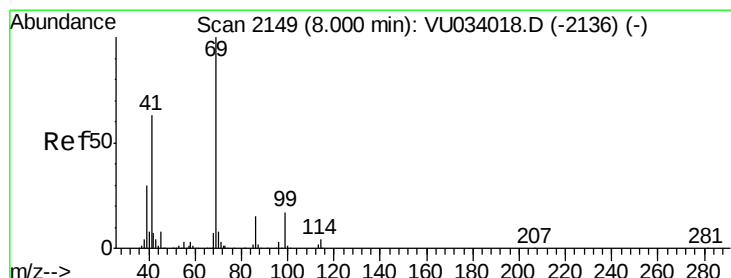
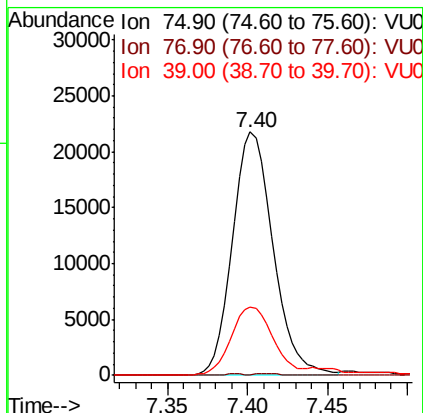
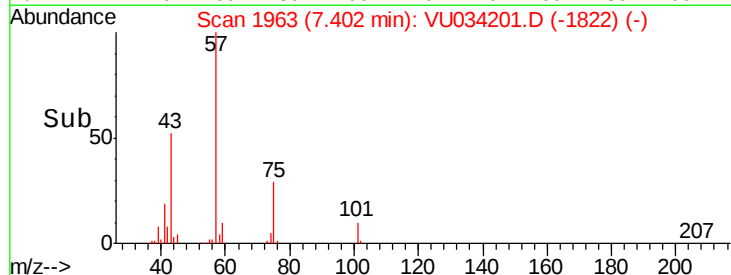
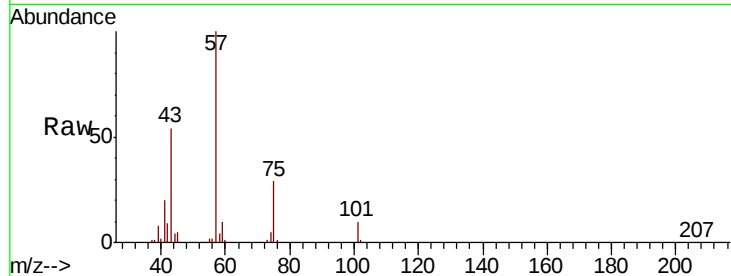


#54

cis-1,3-Dichloropropene
 Concen: 4.399 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034201.D
 Acq: 02 Sep 2019 14:49

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C1-(2.25)

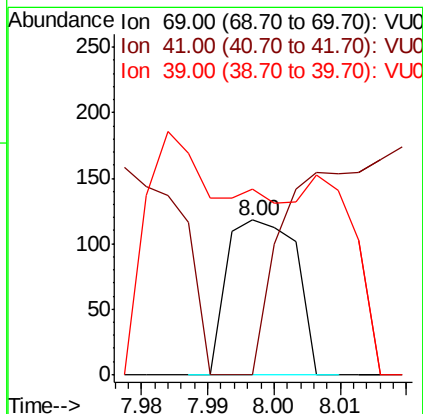
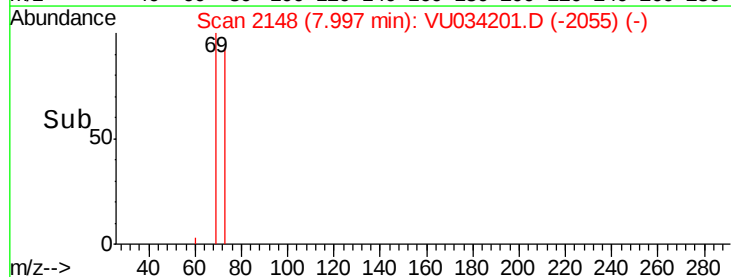
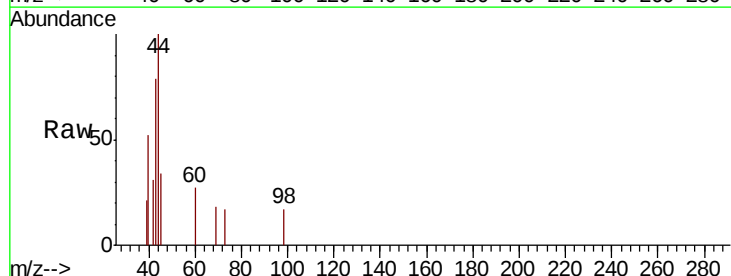
Tgt Ion: 75 Resp: 37721
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 28.1 34.6 51.8#

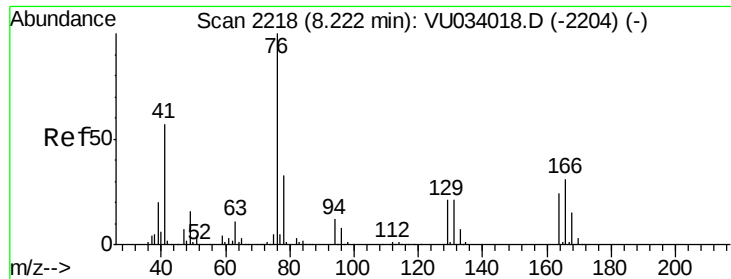


#56

Ethyl methacrylate
 Concen: 0.981 ug/l
 RT: 8.00 min Scan# 2148
 Delta R.T. -0.00 min
 Lab File: VU034201.D
 Acq: 02 Sep 2019 14:49

Tgt Ion: 69 Resp: 85
 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: 0.697 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.17 min

Lab File: VU034201.D

Acq: 02 Sep 2019 14:49

Instrument :

MSVOA_U

ClientSampleId :

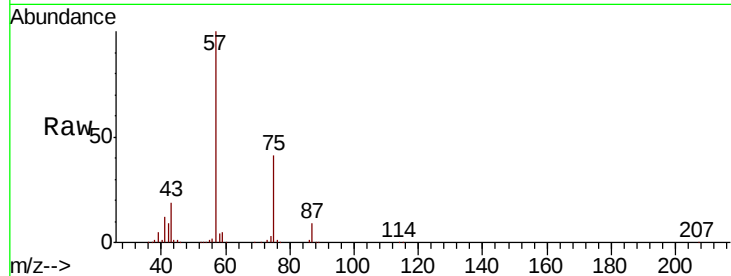
T16-17-C1-(2.25)

Tgt Ion: 76 Resp: 6284

Ion Ratio Lower Upper

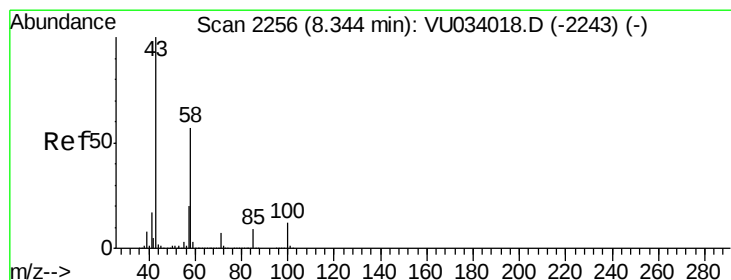
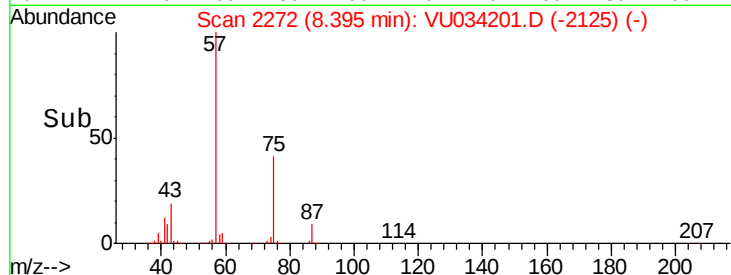
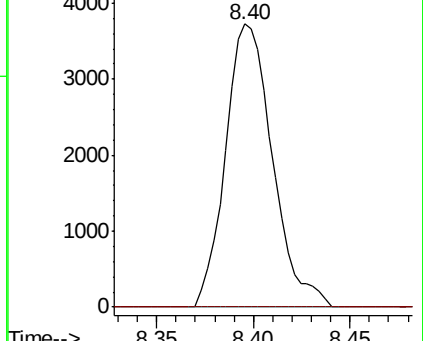
76 100

78 0.0 26.2 39.4#



Abundance Ion 75.90 (75.60 to 76.60): VU034201.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034201.D (-2125) (-)



#59

2-Hexanone

Concen: 13.951 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034201.D

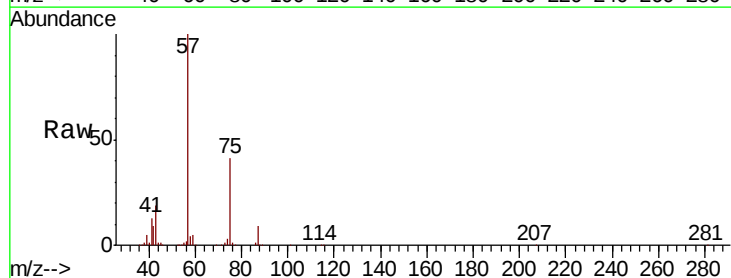
Acq: 02 Sep 2019 14:49

Tgt Ion: 43 Resp: 83487

Ion Ratio Lower Upper

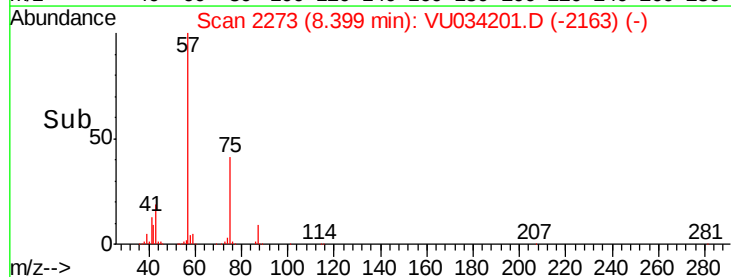
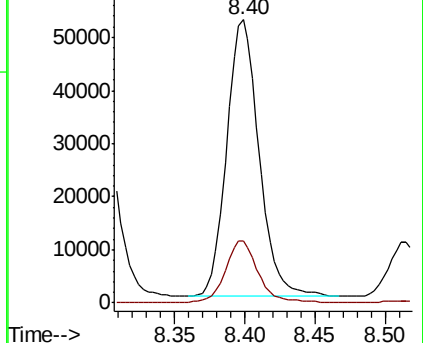
43 100

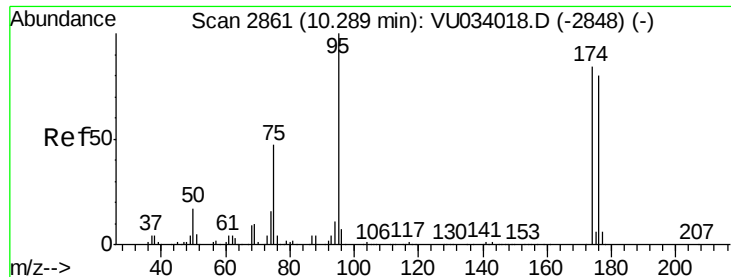
58 23.3 28.4 85.3#



Abundance Ion 43.00 (42.70 to 43.70): VU034201.D (-2163) (-)

Ion 58.00 (57.70 to 58.70): VU034201.D (-2163) (-)





#62

4-Bromofluorobenzene

Concen: 44.801 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034201.D

Acq: 02 Sep 2019 14:49

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C1-(2.25)

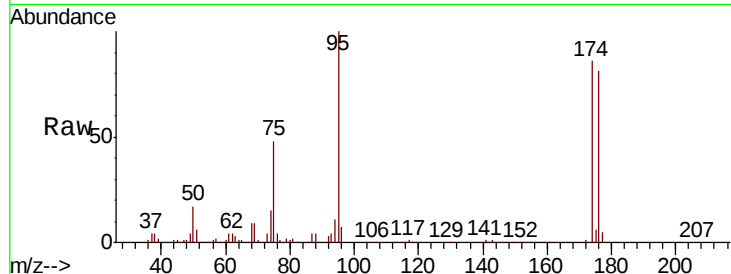
Tgt Ion: 95 Resp: 322380

Ion Ratio Lower Upper

95 100

174 85.8 0.0 168.8

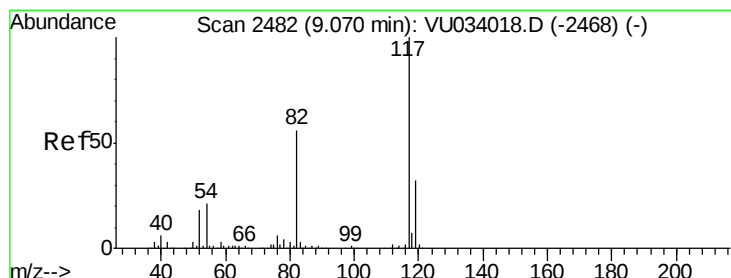
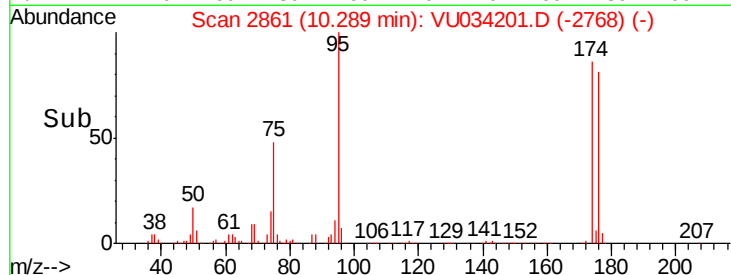
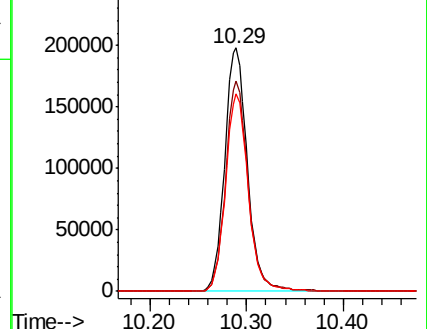
176 81.5 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU034201.D (-2768) (-)

Ion 173.80 (173.50 to 174.50): VU034201.D (-2768) (-)

Ion 175.80 (175.50 to 176.50): VU034201.D (-2768) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034201.D

Acq: 02 Sep 2019 14:49

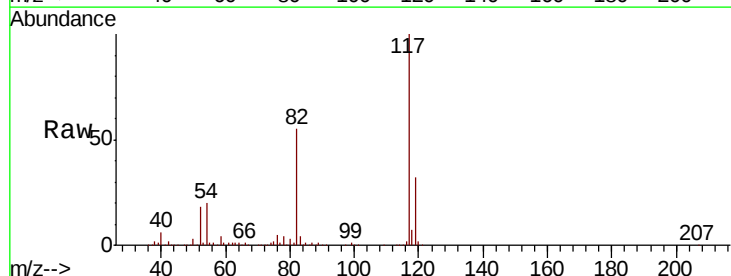
Tgt Ion: 117 Resp: 708364

Ion Ratio Lower Upper

117 100

82 55.5 45.1 67.7

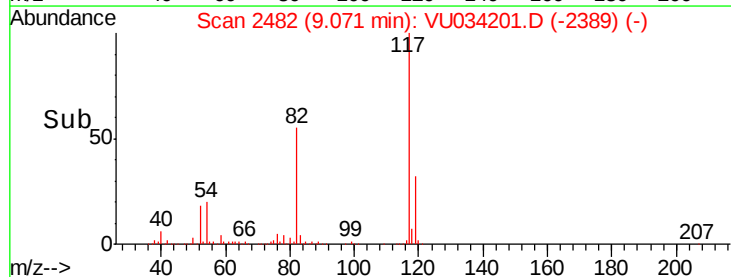
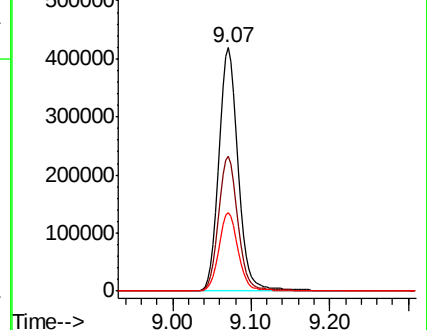
119 32.4 25.4 38.0

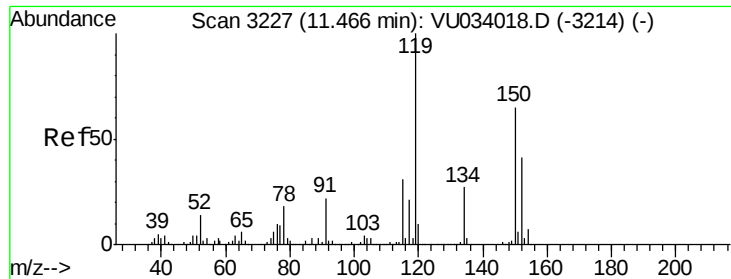


Abundance Ion 116.90 (116.60 to 117.60): VU034201.D (-2389) (-)

Ion 82.00 (81.70 to 82.70): VU034201.D (-2389) (-)

Ion 118.90 (118.60 to 119.60): VU034201.D (-2389) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034201.D

Acq: 02 Sep 2019 14:49

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C1-(2.25)

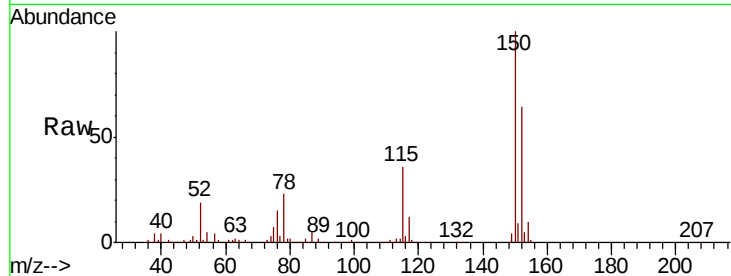
Tgt Ion:152 Resp: 340593

Ion Ratio Lower Upper

152 100

115 57.5 41.1 123.3

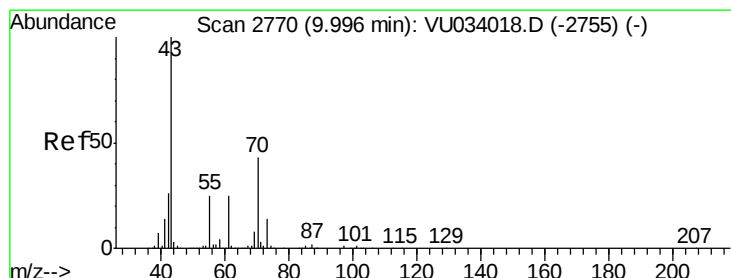
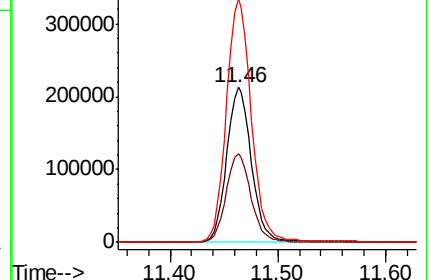
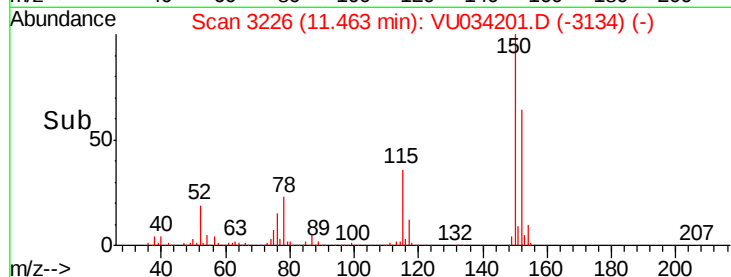
150 158.3 0.0 348.8



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-ethyl acetate

Concen: 0.247 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034201.D

Acq: 02 Sep 2019 14:49

Tgt Ion: 43 Resp: 2375

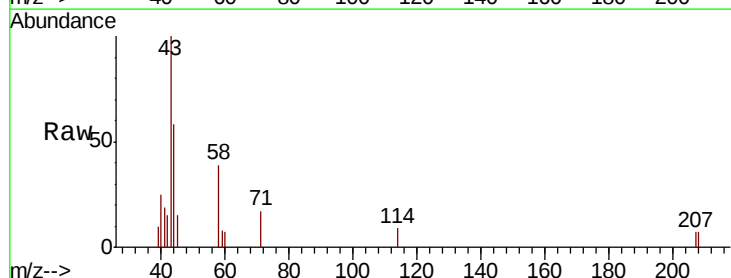
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 8.1 20.5 30.7#

61 0.0 20.0 30.0#

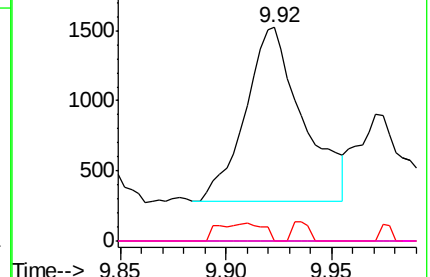
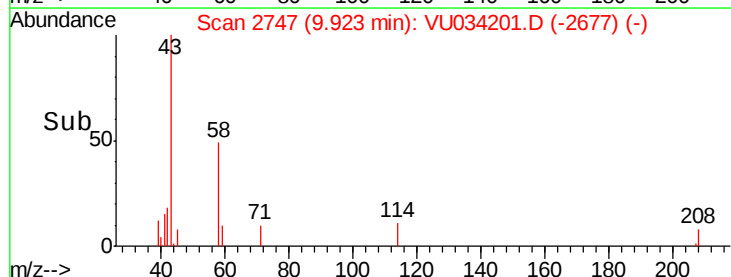


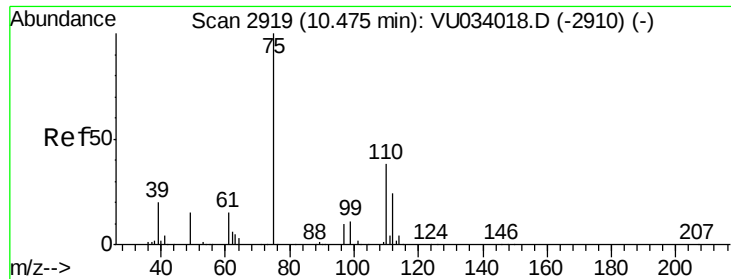
Abundance Ion 43.00 (42.70 to 43.70): VU0

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

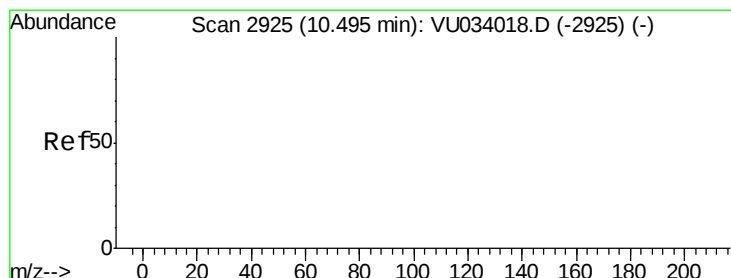
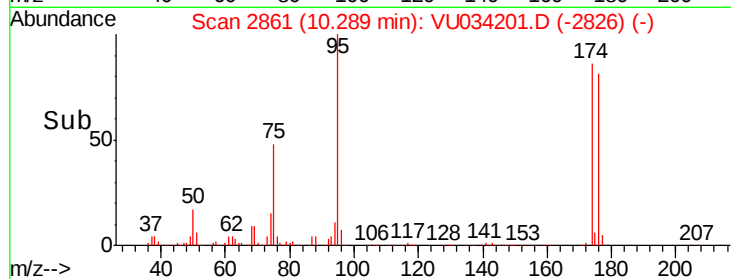
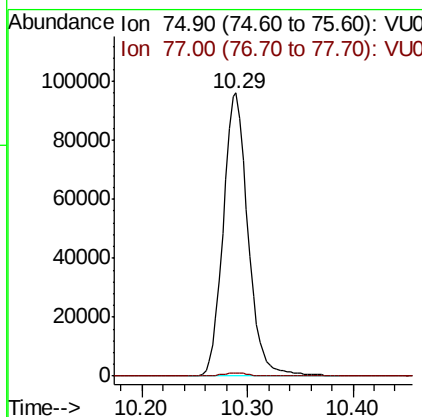
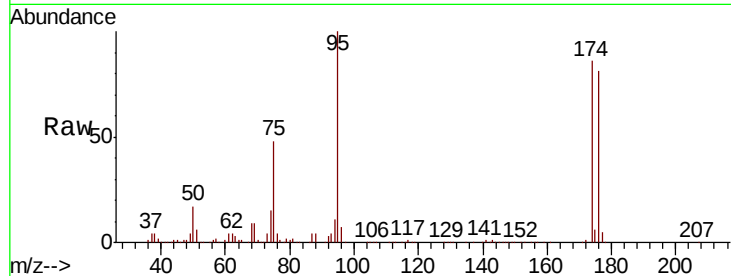




#76
 1,2,3-Trichloropropane
 Concen: 20.358 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034201.D
 Acq: 02 Sep 2019 14:49

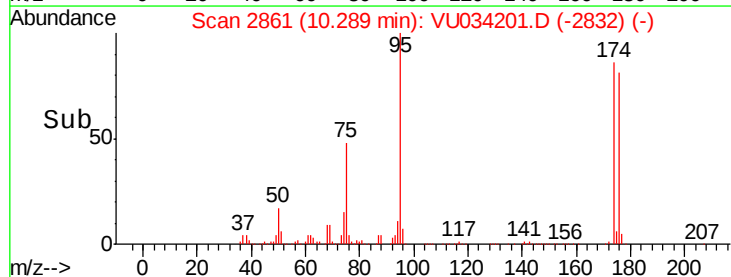
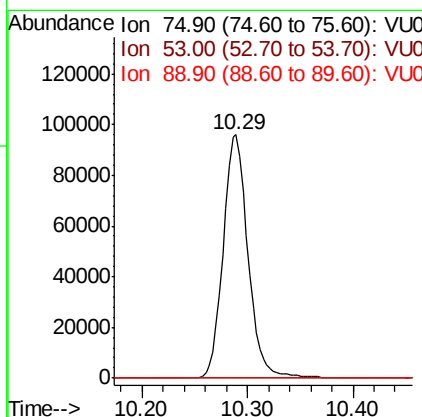
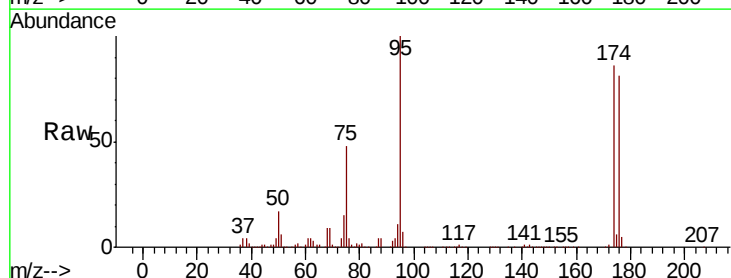
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C1-(2.25)

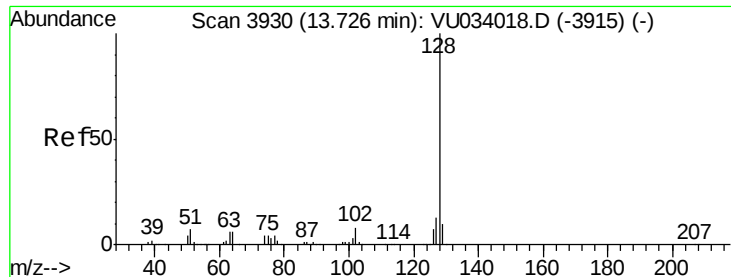
Tgt Ion: 75 Resp: 156276
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.1 60.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.550 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034201.D
 Acq: 02 Sep 2019 14:49

Tgt Ion: 75 Resp: 156276
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0





#95

Naphthalene

Concen: 1.791 ug/l

RT: 13.77 min Scan# 3942

Delta R.T. 0.04 min

Lab File: VU034201.D

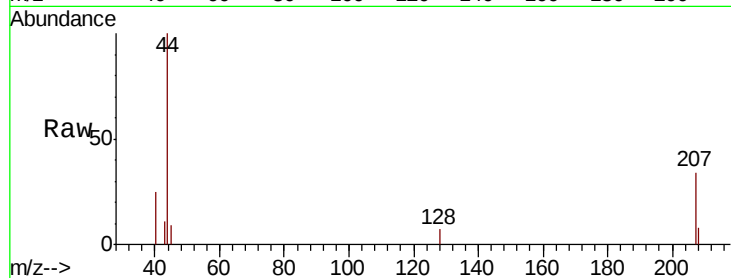
Acq: 02 Sep 2019 14:49

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C1-(2.25)



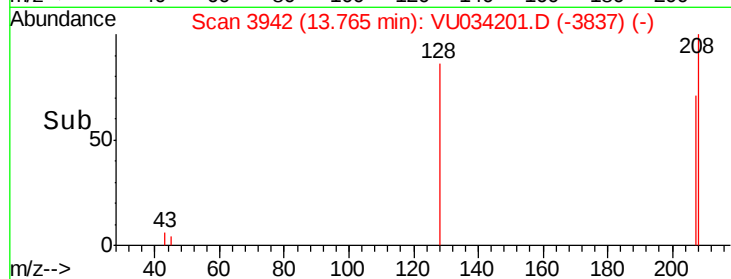
Tgt Ion:128 Resp: 20

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): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

