

Data File : VU034300.D
Acq On : 05 Sep 2019 21:44
Operator : JC/SP
Sample : K4548-16
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 34 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T8-S-G3-(0)

Quant Time: Sep 06 07:43:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	432749	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	665697	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	684849	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	338996	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	277440	42.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.74%	
35) Dibromofluoromethane	4.86	113	242566	39.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.32%	
50) Toluene-d8	7.55	98	966160	41.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.04%	
62) 4-Bromofluorobenzene	10.29	95	344306	38.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.64%	

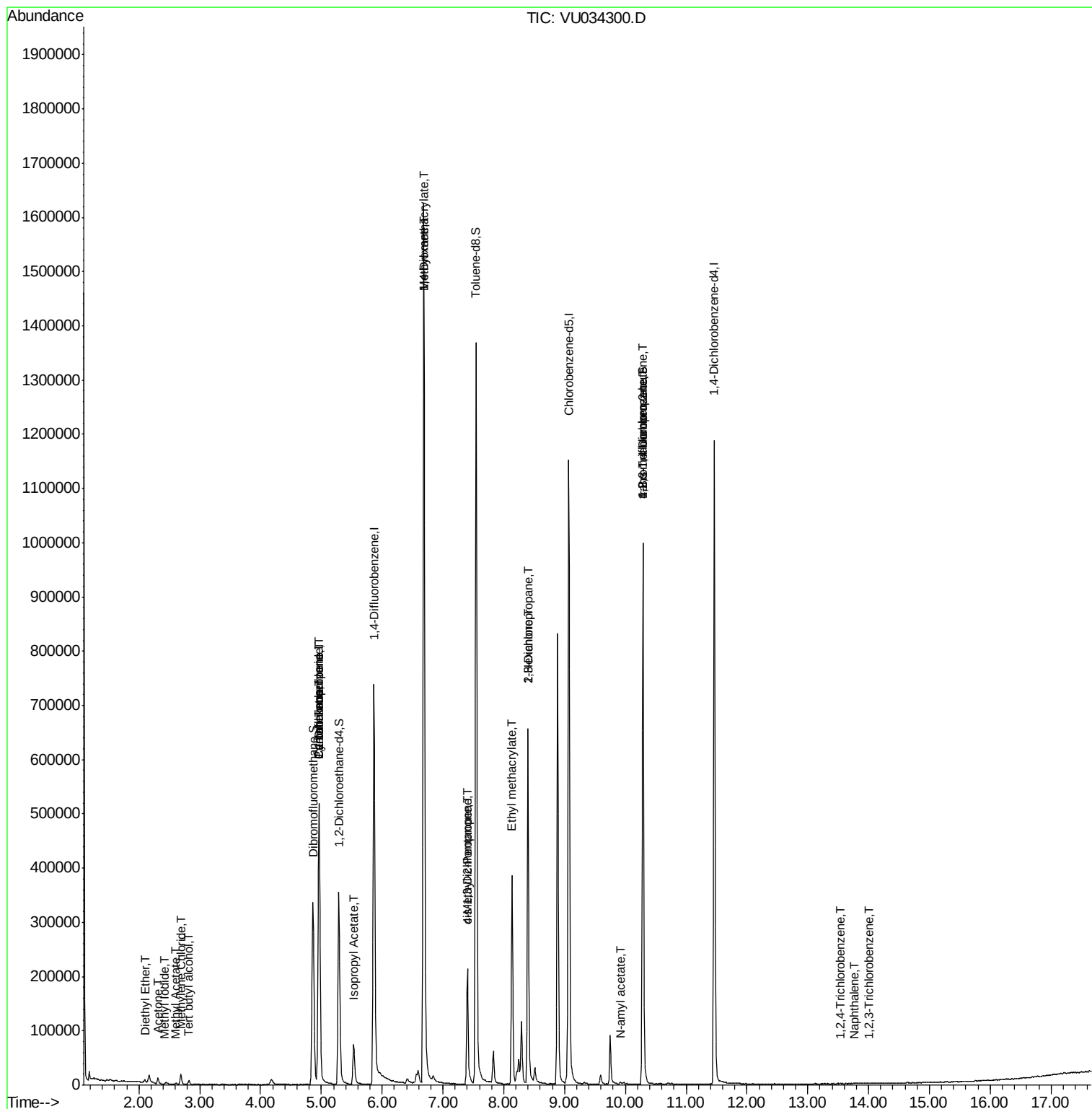
Target Compounds					Qvalue
5) Bromomethane	1.64	94	606	Below Cal	91
6) Chloroethane	1.69	64	85	Below Cal	# 43
8) Diethyl Ether	2.10	74	1202	0.361 ug/l	68
10) Methyl Iodide	2.41	142	298	3.906 ug/l #	43
11) Tert butyl alcohol	2.82	59	4402	3.182 ug/l #	73
16) Acetone	2.32	43	11548	3.408 ug/l	99
18) Methyl Acetate	2.61	43	3807	0.462 ug/l	95
20) Methylene Chloride	2.69	84	8661	1.170 ug/l	97
31) Cyclohexane	4.96	56	7099	0.926 ug/l #	1
36) 1,1-Dichloropropene	4.96	75	29652	4.107 ug/l #	48
38) Carbon Tetrachloride	4.96	117	37719	4.893 ug/l #	16
43) Isopropyl Acetate	5.53	43	89177	6.697 ug/l	99
48) Methyl methacrylate	6.68	41	139134	21.999 ug/l #	37
49) 1,4-Dioxane	6.68	88	175	1.267 ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	81545	8.847 ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	40457	4.041 ug/l #	60
56) Ethyl methacrylate	8.13	69	1940	3.257 ug/l #	1
57) 1,3-Dichloropropane	8.40	76	6712	0.621 ug/l #	43
59) 2-Hexanone	8.40	43	88787	12.894 ug/l #	52
74) N-amyl acetate	9.92	43	2630	0.296 ug/l #	44
76) 1,2,3-Trichloropropane	10.29	75	161058	21.766 ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	161058	73.196 ug/l #	100
93) 1,2,4-Trichlorobenzene	13.54	180	43	3.457 ug/l #	12
95) Naphthalene	13.77	128	296	3.978 ug/l #	69
96) 1,2,3-Trichlorobenzene	14.00	180	20	2.641 ug/l #	1

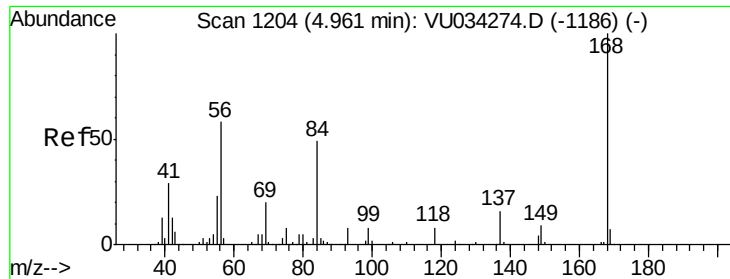
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VU034300.D

Acq: 05 Sep 2019 21:44

Instrument :

MSVOA_U

ClientSampleId :

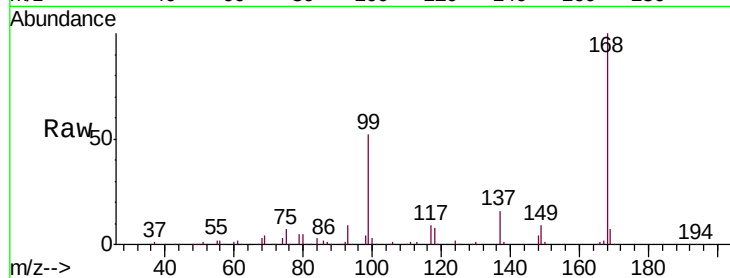
T8-S-G3-(0)

Tgt Ion:168 Resp: 432749

Ion Ratio Lower Upper

168 100

99 51.9 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

200000

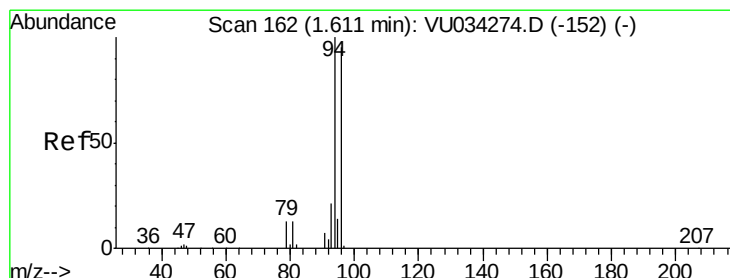
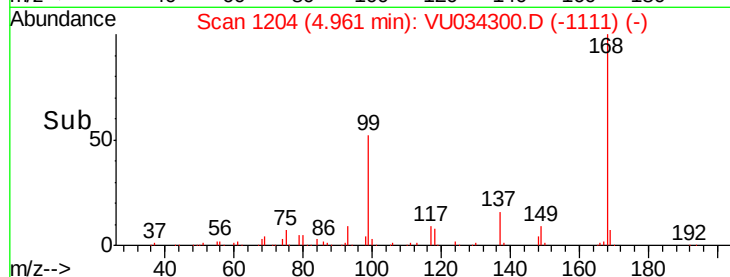
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 170

Delta R.T. 0.03 min

Lab File: VU034300.D

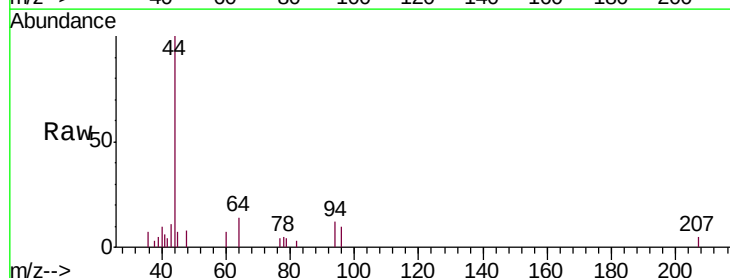
Acq: 05 Sep 2019 21:44

Tgt Ion: 94 Resp: 606

Ion Ratio Lower Upper

94 100

96 85.7 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034274.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034274.D (-152) (-)

1.64

500

400

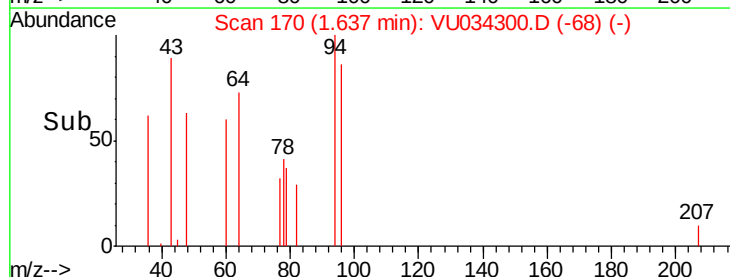
300

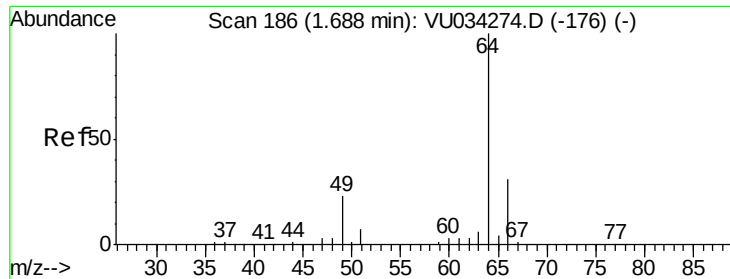
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034300.D

Acq: 05 Sep 2019 21:44

Instrument :

MSVOA_U

ClientSampleId :

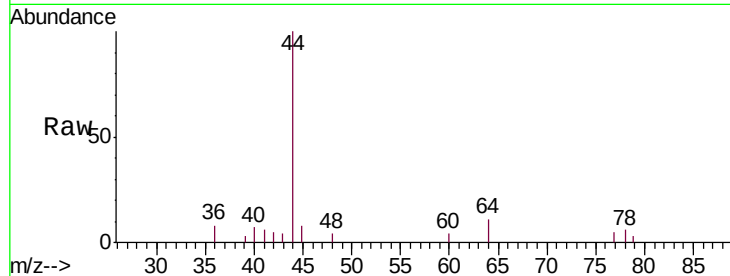
T8-S-G3-(0)

Tgt Ion: 64 Resp: 85

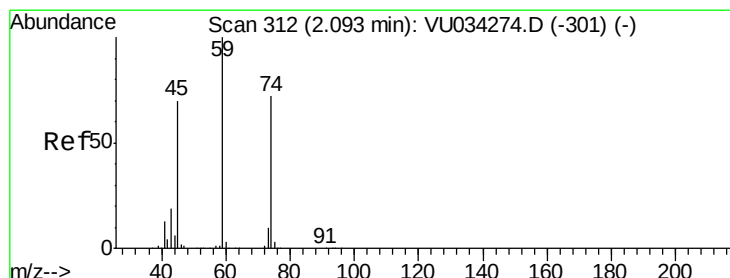
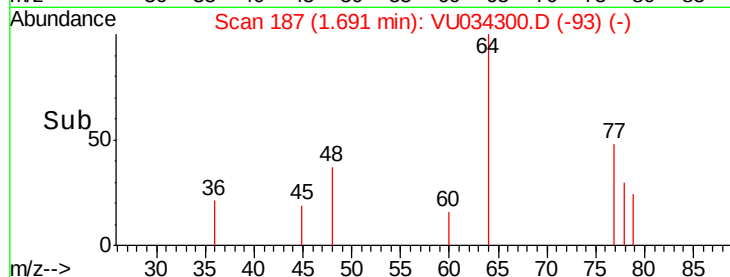
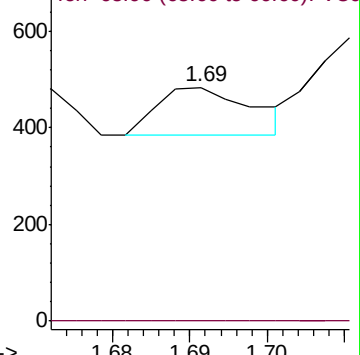
Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU034274.D (-176) (-)



#8

Diethyl Ether

Concen: 0.361 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.00 min

Lab File: VU034300.D

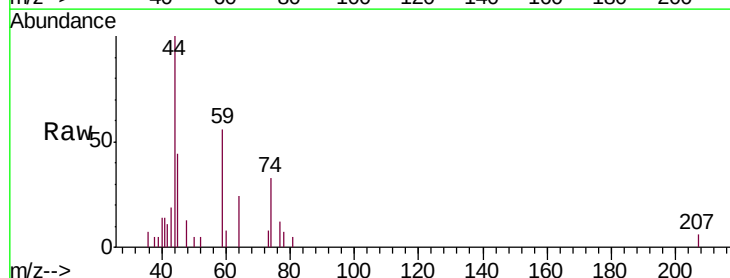
Acq: 05 Sep 2019 21:44

Tgt Ion: 74 Resp: 1202

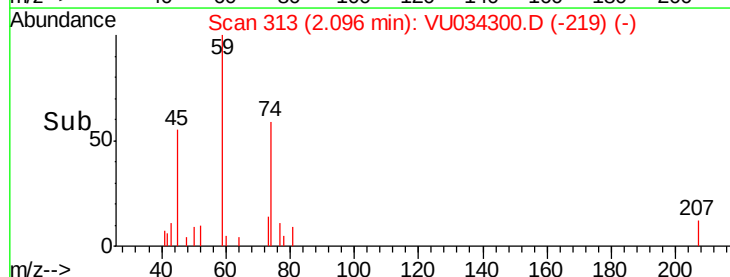
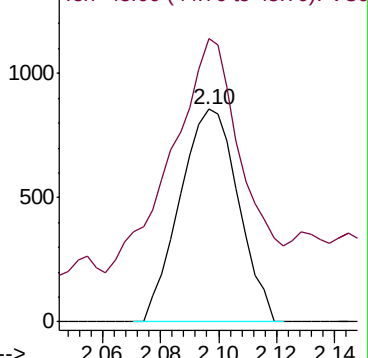
Ion Ratio Lower Upper

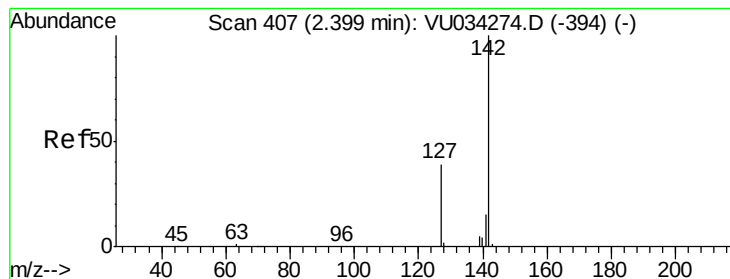
74 100

45 127.5 48.2 144.6



Abundance Ion 74.00 (73.70 to 74.70): VU034274.D (-301) (-)





#10

Methyl Iodide

Concen: 3.906 ug/l

RT: 2.41 min Scan# 412

Delta R.T. 0.02 min

Lab File: VU034300.D

Acq: 05 Sep 2019 21:44

Instrument :

MSVOA_U

ClientSampleId :

T8-S-G3-(0)

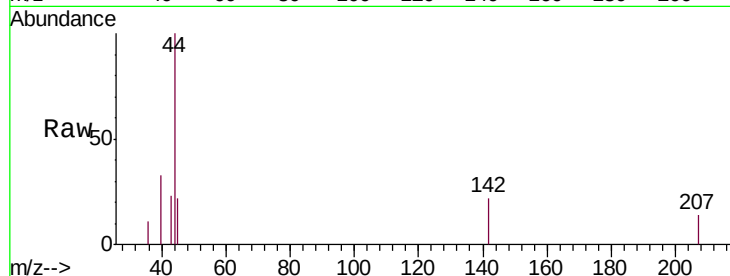
Tgt Ion: 142 Resp: 298

Ion Ratio Lower Upper

142 100

127 0.0 32.1 48.1#

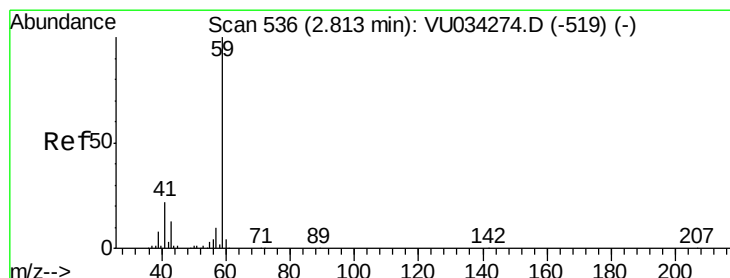
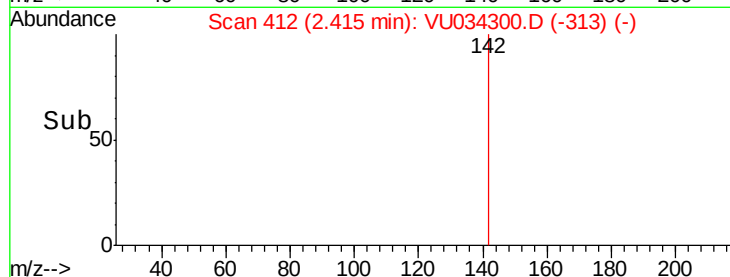
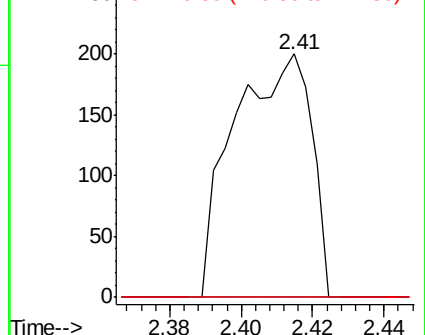
141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 3.182 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.01 min

Lab File: VU034300.D

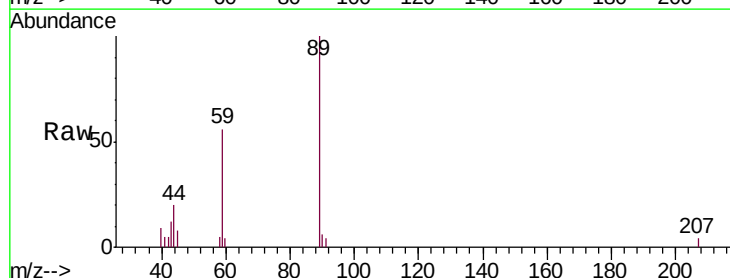
Acq: 05 Sep 2019 21:44

Tgt Ion: 59 Resp: 4402

Ion Ratio Lower Upper

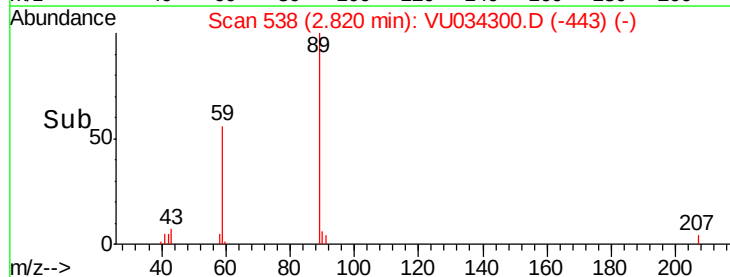
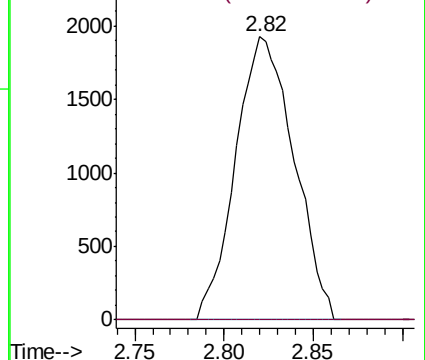
59 100

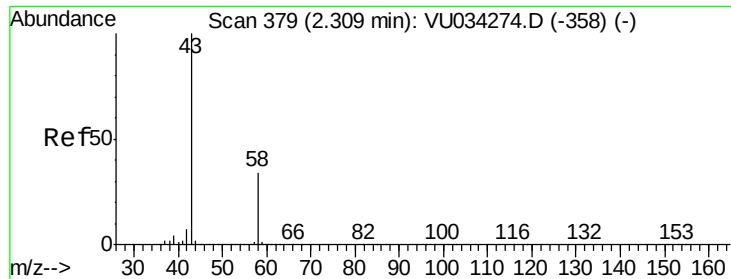
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

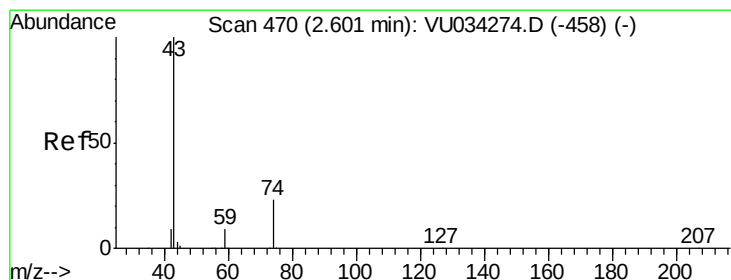
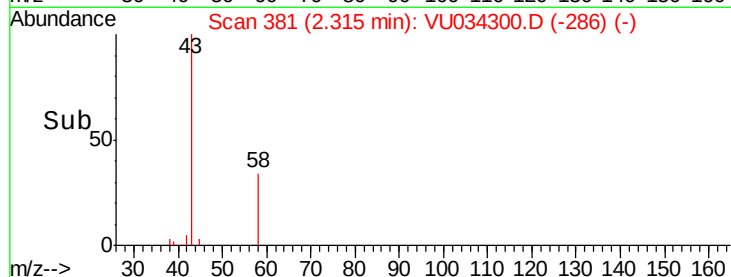
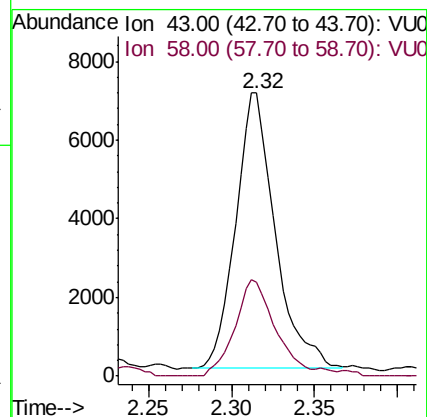
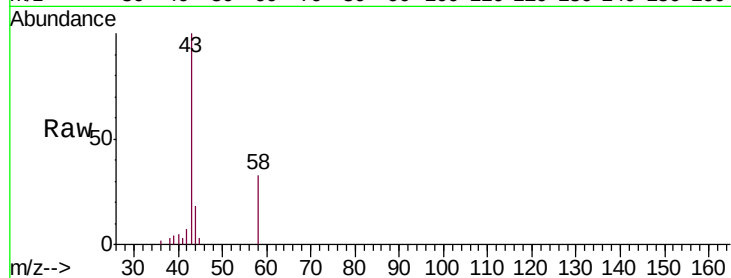




#16
Acetone
Concen: 3.408 ug/l
RT: 2.32 min Scan# 381
Delta R.T. 0.01 min
Lab File: VU034300.D
Acq: 05 Sep 2019 21:44

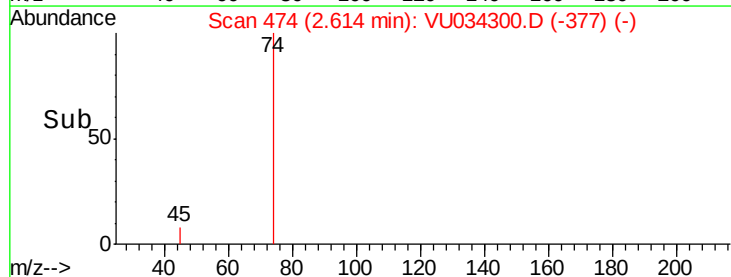
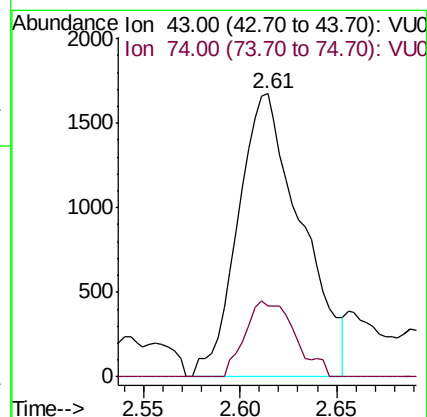
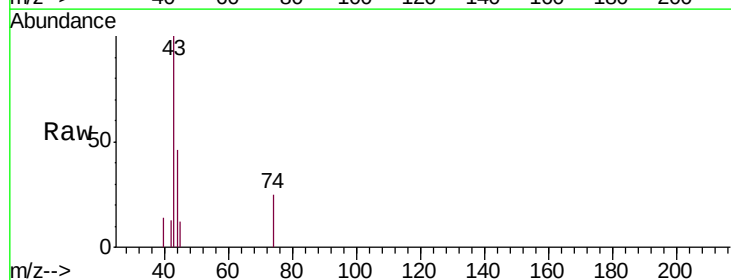
Instrument :
MSVOA_U
ClientSampleId :
T8-S-G3-(0)

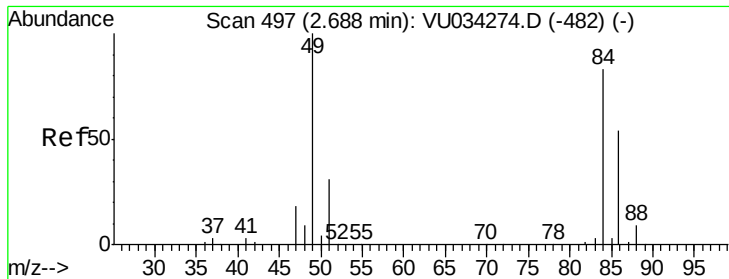
Tgt Ion: 43 Resp: 11548
Ion Ratio Lower Upper
43 100
58 34.1 27.6 41.4



#18
Methyl Acetate
Concen: 0.462 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.01 min
Lab File: VU034300.D
Acq: 05 Sep 2019 21:44

Tgt Ion: 43 Resp: 3807
Ion Ratio Lower Upper
43 100
74 21.1 18.9 28.3





#20

Methylene Chloride

Concen: 1.170 ug/l

RT: 2.69 min Scan# 498

Delta R.T. 0.00 min

Lab File: VU034300.D

Acq: 05 Sep 2019 21:44

Instrument :

MSVOA_U

ClientSampleId :

T8-S-G3-(0)

Tgt Ion: 84 Resp: 8661

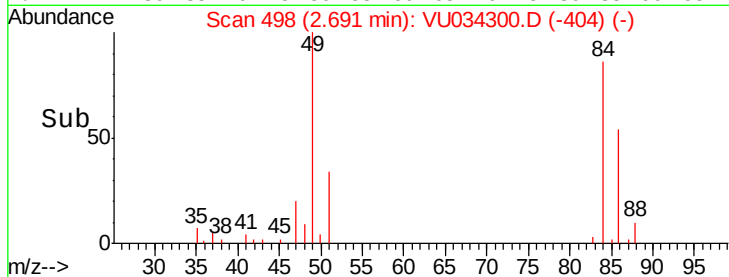
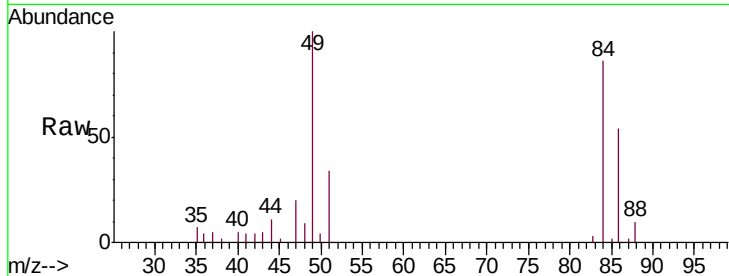
Ion Ratio Lower Upper

84 100

49 115.8 96.0 144.0

51 39.5 30.0 45.0

86 63.0 51.4 77.0

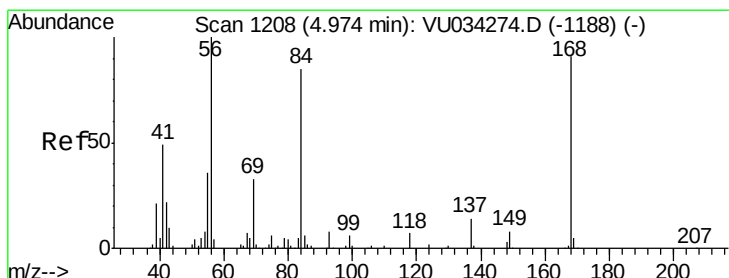
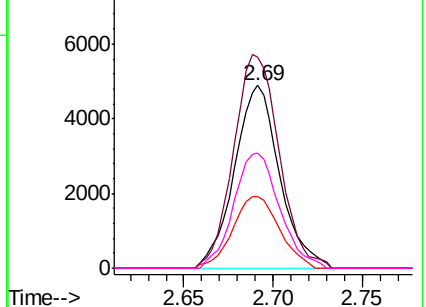


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#31

Cyclohexane

Concen: 0.926 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034300.D

Acq: 05 Sep 2019 21:44

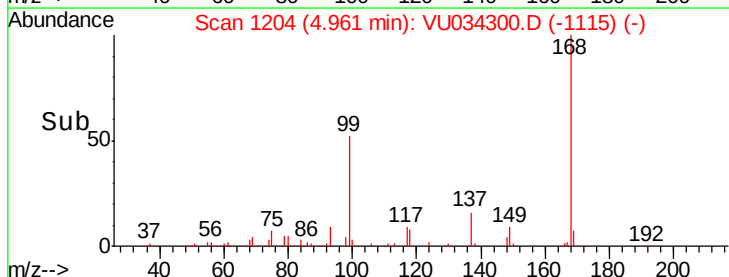
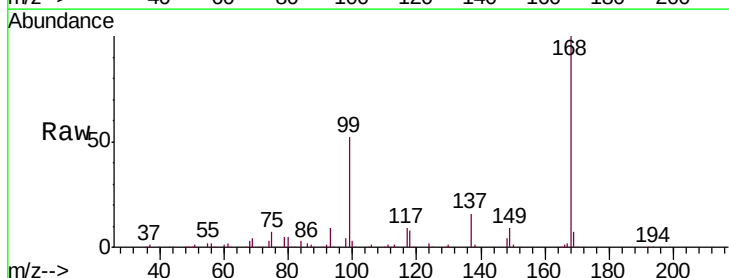
Tgt Ion: 56 Resp: 7099

Ion Ratio Lower Upper

56 100

69 212.1 26.7 40.1#

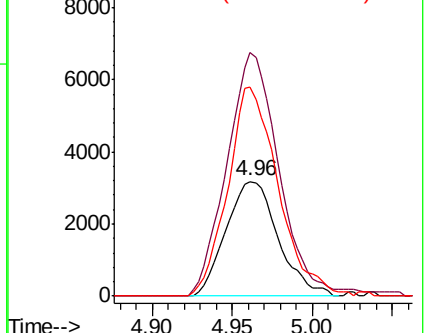
84 182.6 68.2 102.4#

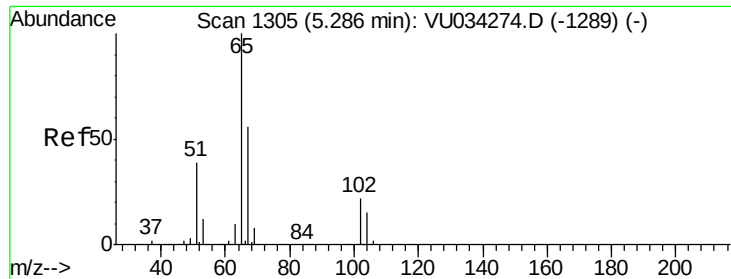


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

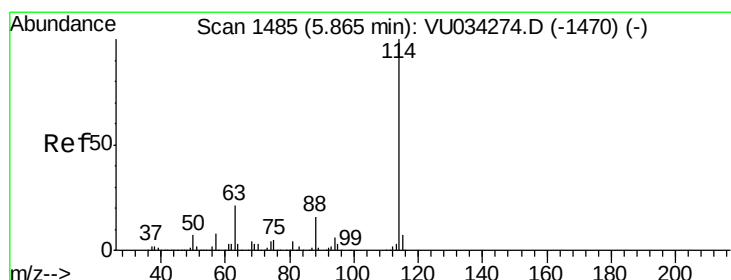
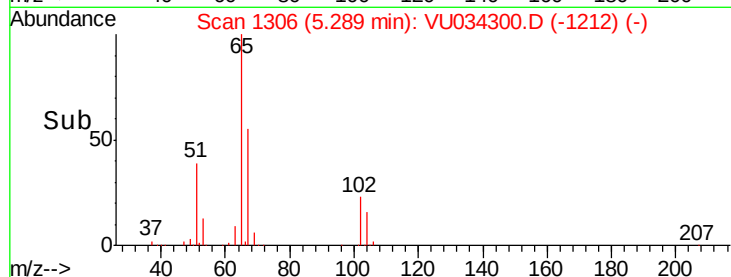
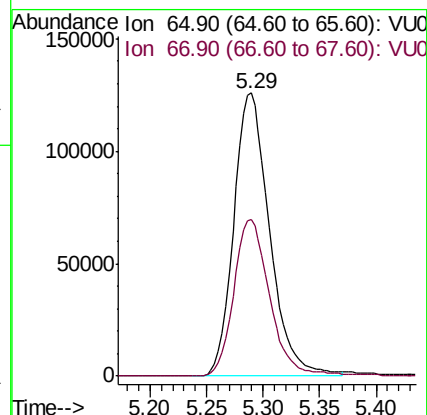
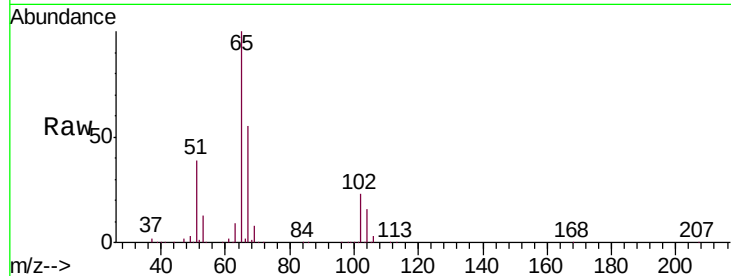




#33
 1,2-Dichloroethane-d4
 Concen: 42.373 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034300.D
 Acq: 05 Sep 2019 21:44

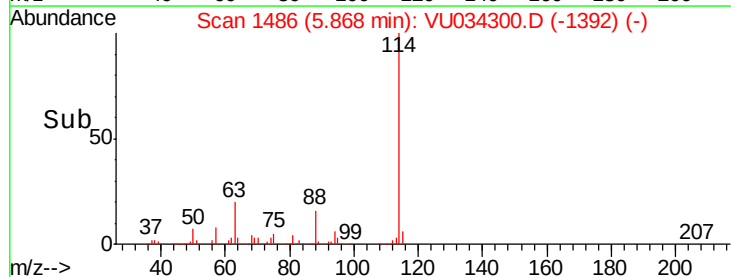
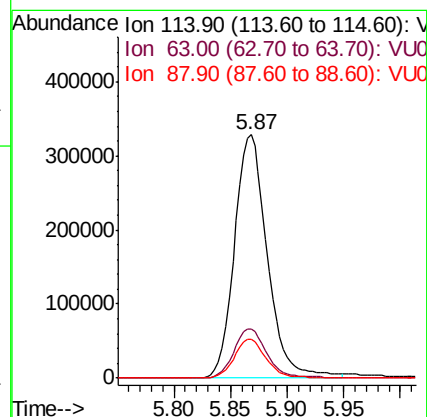
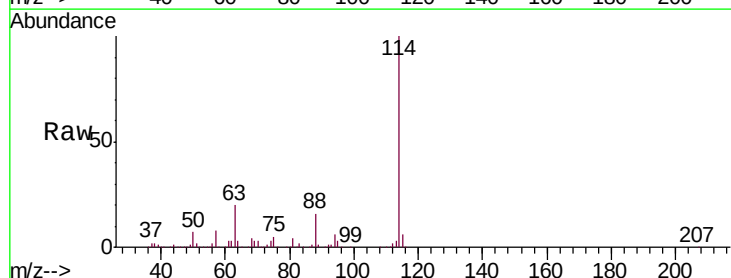
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 MSVOA_U
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 T8-S-G3-(0)

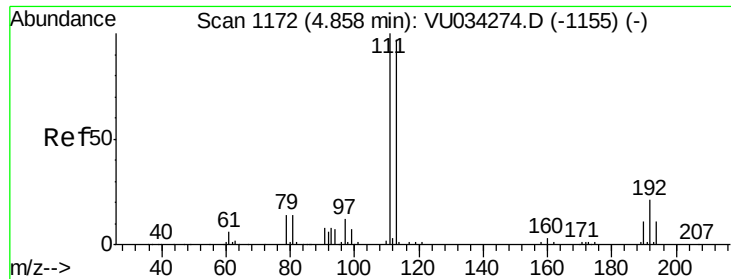
Tgt Ion: 65 Resp: 277440
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034300.D
 Acq: 05 Sep 2019 21:44

Tgt Ion: 114 Resp: 665697
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 42.4
 88 15.9 0.0 32.4

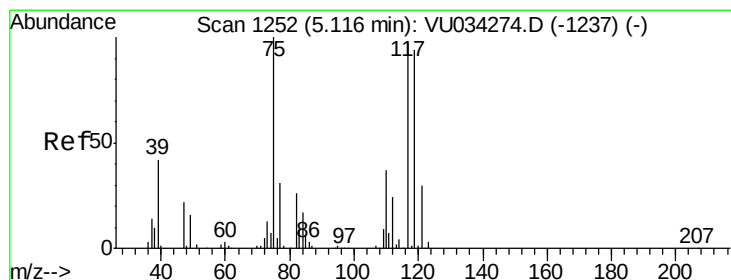
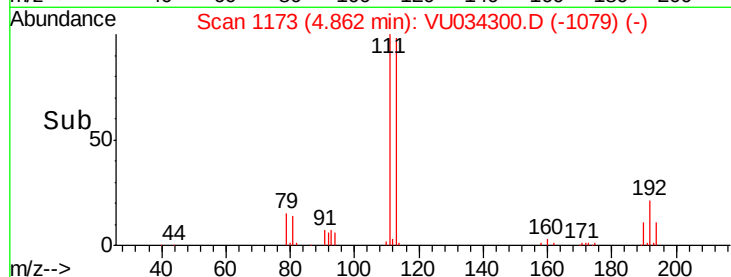
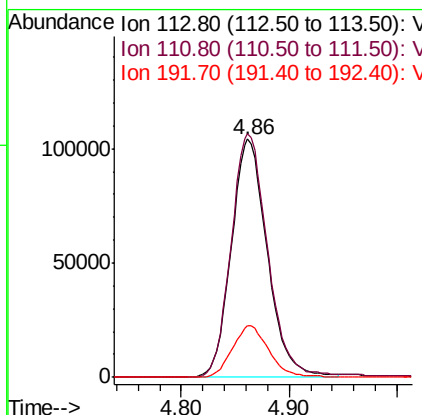
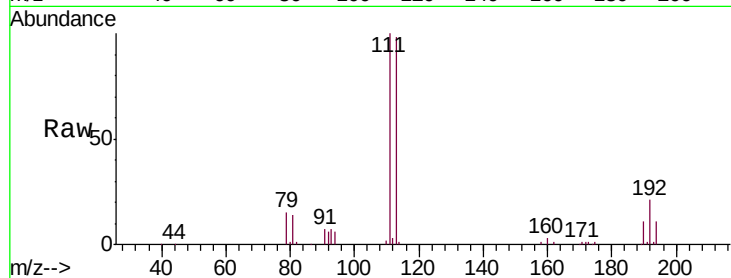




#35
 Dibromofluoromethane
 Concen: 39.159 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034300.D
 Acq: 05 Sep 2019 21:44

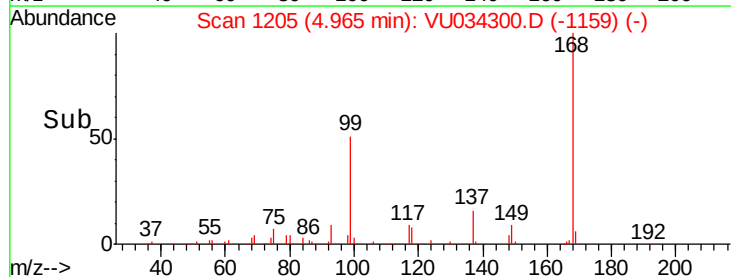
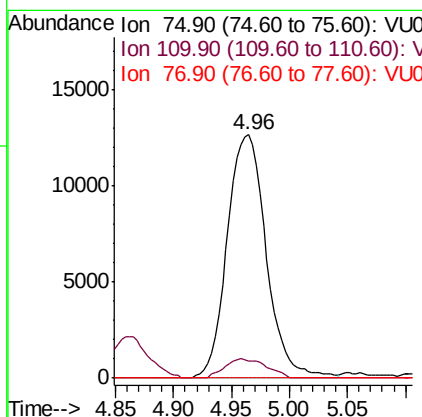
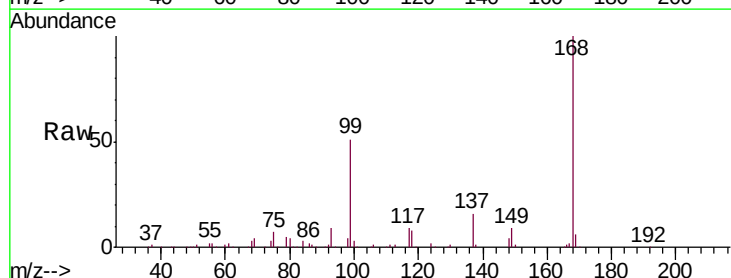
Instrument :
 MSVOA_U
 ClientSampleId :
 T8-S-G3-(0)

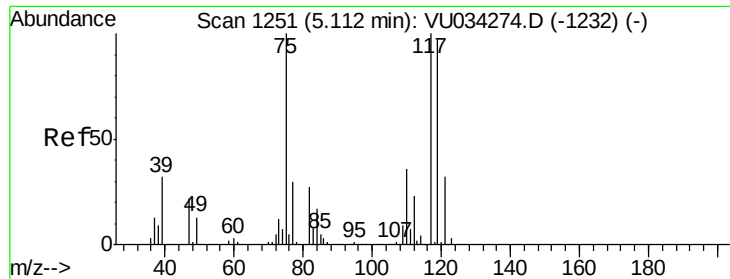
Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.0	81.5	122.3
192	22.1	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 4.107 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034300.D
 Acq: 05 Sep 2019 21:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.3	54.9#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 4.893 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034300.D

Acq: 05 Sep 2019 21:44

Instrument :

MSVOA_U

ClientSampleId :

T8-S-G3-(0)

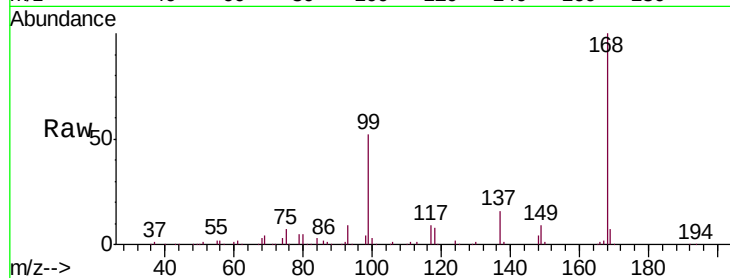
Tgt Ion:117 Resp: 37719

Ion Ratio Lower Upper

117 100

119 5.6 77.8 116.6#

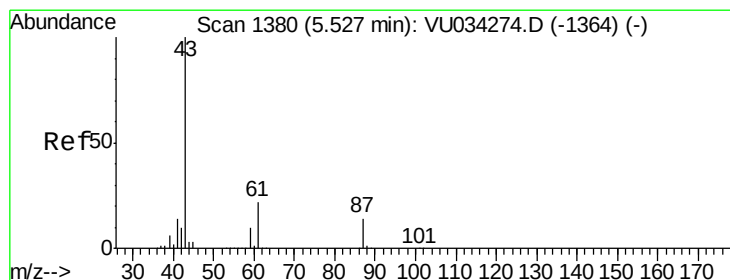
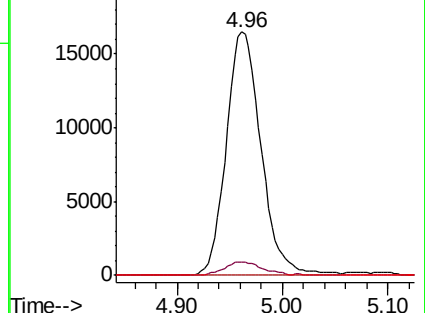
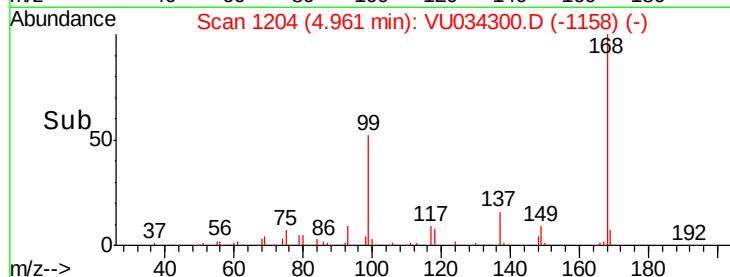
121 0.0 25.2 37.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 6.697 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034300.D

Acq: 05 Sep 2019 21:44

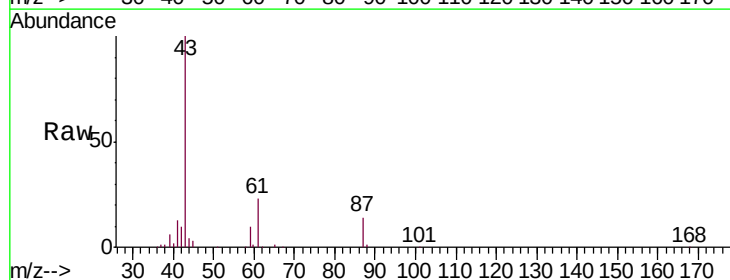
Tgt Ion: 43 Resp: 89177

Ion Ratio Lower Upper

43 100

61 21.4 17.1 25.7

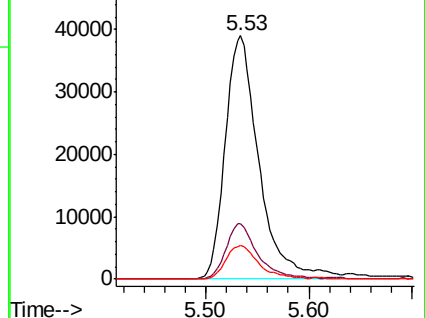
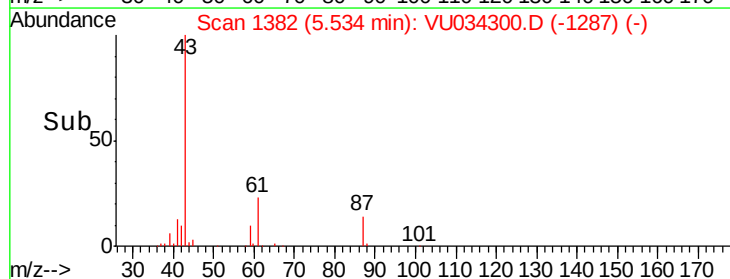
87 13.3 11.1 16.7

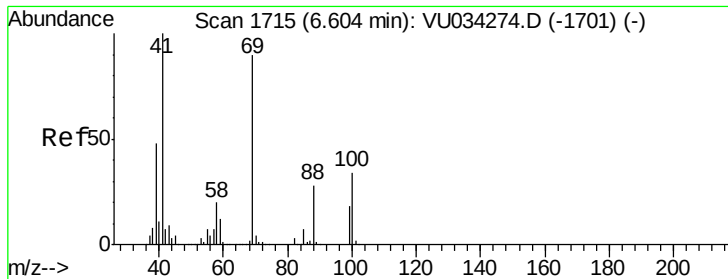


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

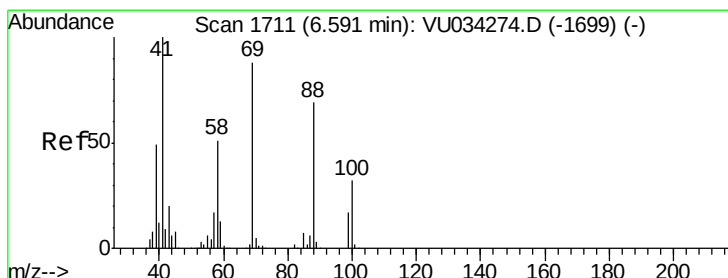
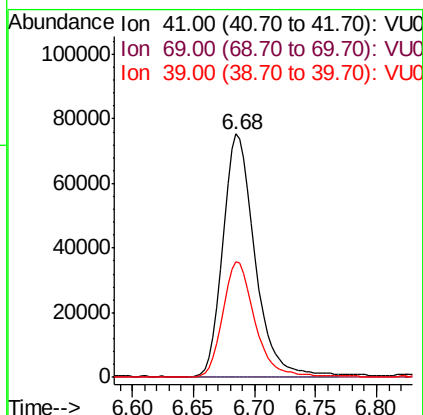
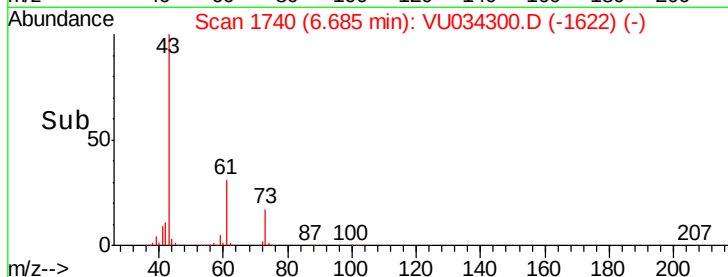
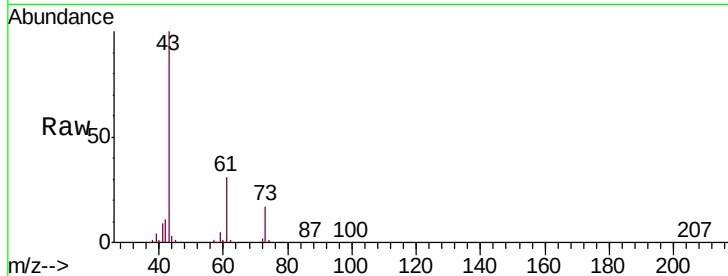




#48
Methyl methacrylate
Concen: 21.999 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.08 min
Lab File: VU034300.D
Acq: 05 Sep 2019 21:44

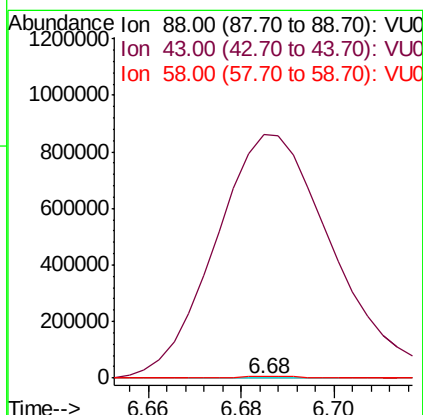
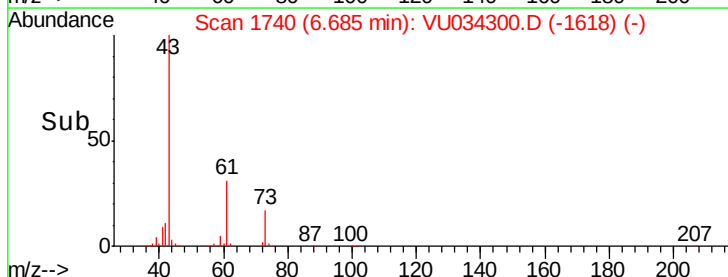
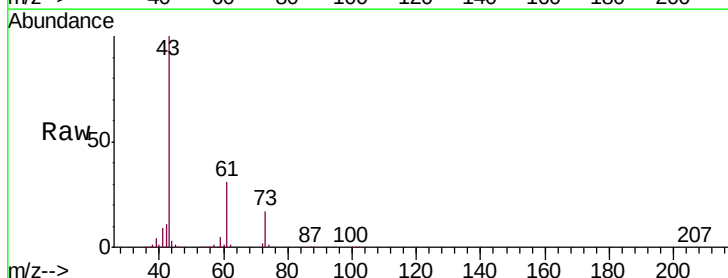
Instrument :
MSVOA_U
ClientSampleId :
T8-S-G3-(0)

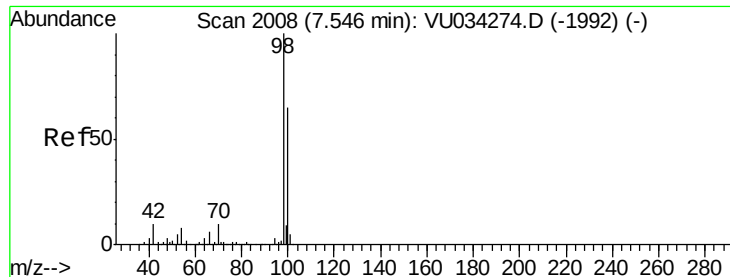
Tgt Ion: 41 Resp: 139134
Ion Ratio Lower Upper
41 100
69 0.0 72.8 109.2#
39 47.9 38.6 58.0



#49
1,4-Dioxane
Concen: 1.267 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.09 min
Lab File: VU034300.D
Acq: 05 Sep 2019 21:44

Tgt Ion: 88 Resp: 175
Ion Ratio Lower Upper
88 100
43 906256.0 23.8 35.6#
58 4517.1 58.4 87.6#





#50

Toluene-d8

Concen: 41.516 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034300.D

Acq: 05 Sep 2019 21:44

Instrument :

MSVOA_U

ClientSampleId :

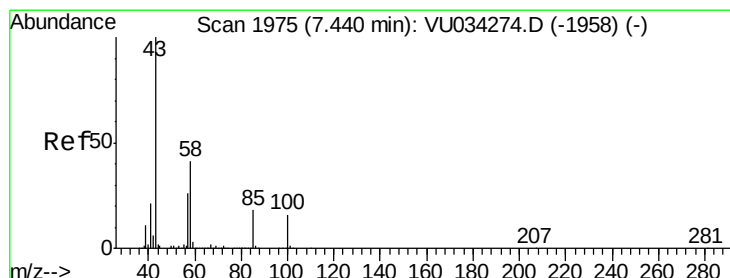
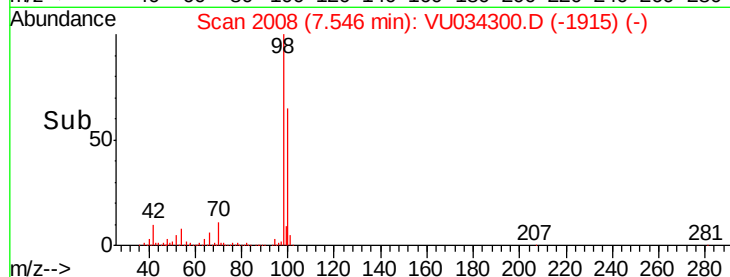
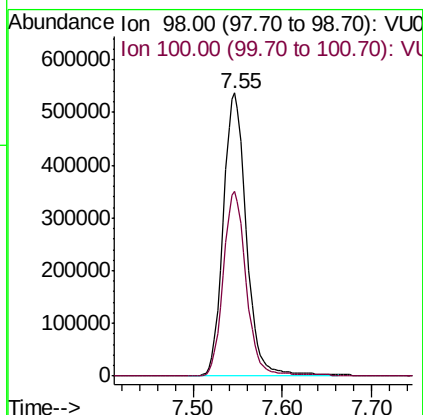
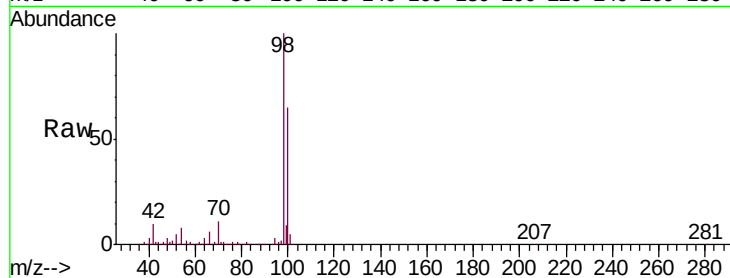
T8-S-G3-(0)

Tgt Ion: 98 Resp: 966160

Ion Ratio Lower Upper

98 100

100 64.5 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 8.847 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034300.D

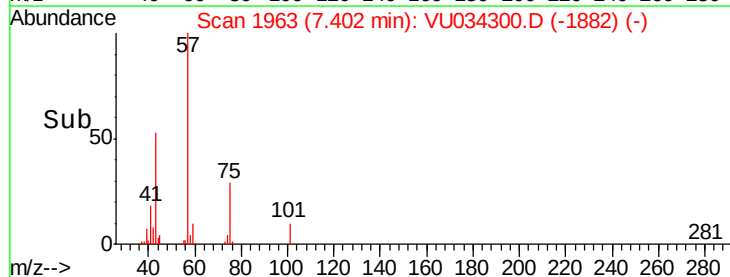
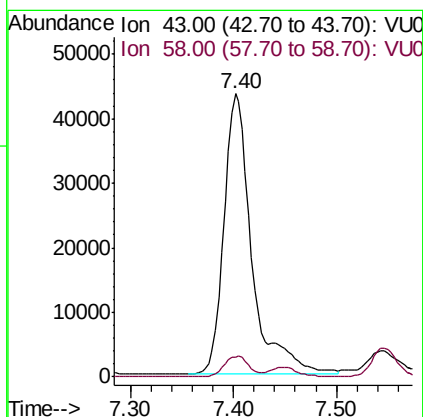
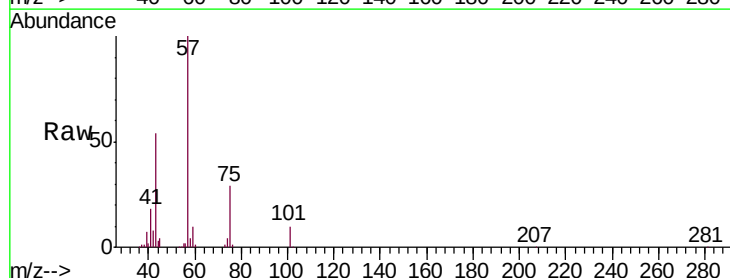
Acq: 05 Sep 2019 21:44

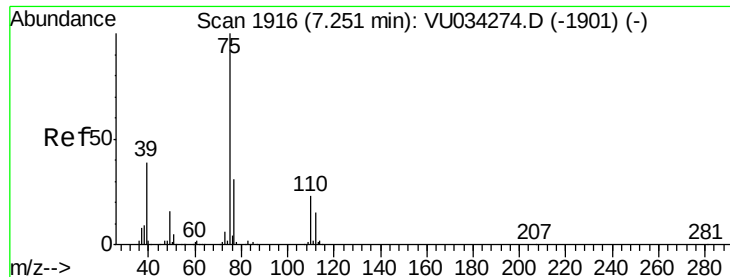
Tgt Ion: 43 Resp: 81545

Ion Ratio Lower Upper

43 100

58 6.7 33.0 49.4#





#54

cis-1,3-Dichloropropene

Concen: 4.041 ug/l

RT: 7.40 min Scan# 1964

Delta R.T. 0.15 min

Lab File: VU034300.D

Acq: 05 Sep 2019 21:44

Instrument :

MSVOA_U

ClientSampleId :

T8-S-G3-(0)

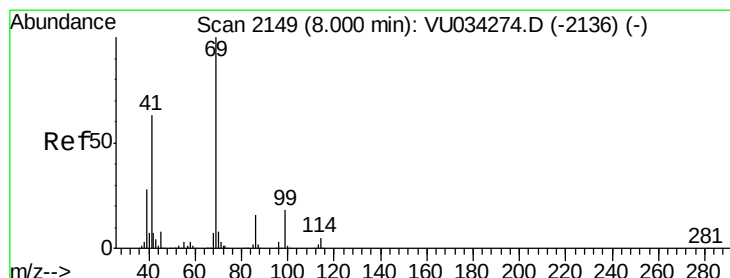
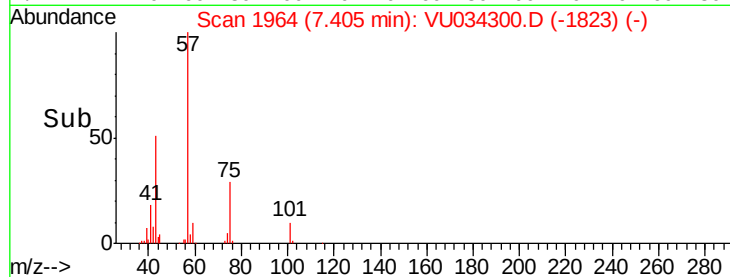
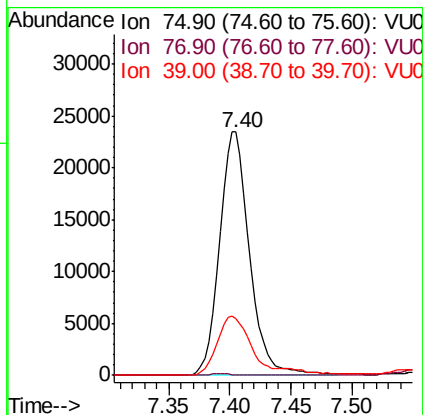
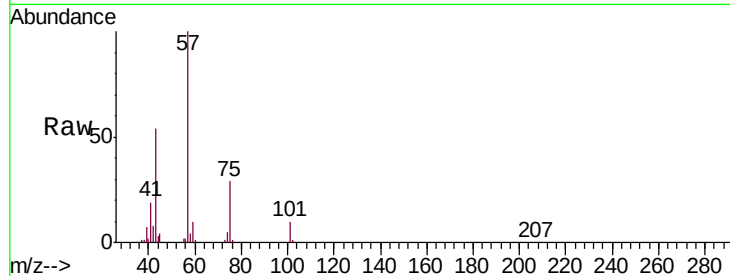
Tgt Ion: 75 Resp: 40457

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 23.2 31.2 46.8#



#56

Ethyl methacrylate

Concen: 3.257 ug/l

RT: 8.13 min Scan# 2190

Delta R.T. 0.13 min

Lab File: VU034300.D

Acq: 05 Sep 2019 21:44

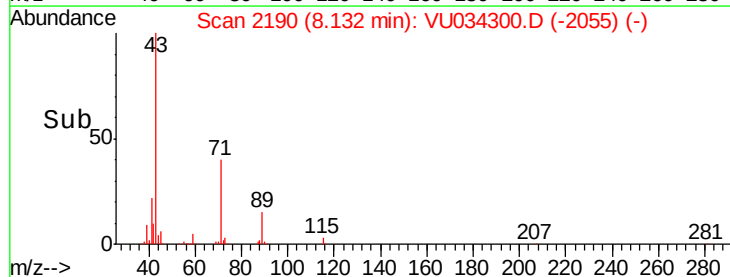
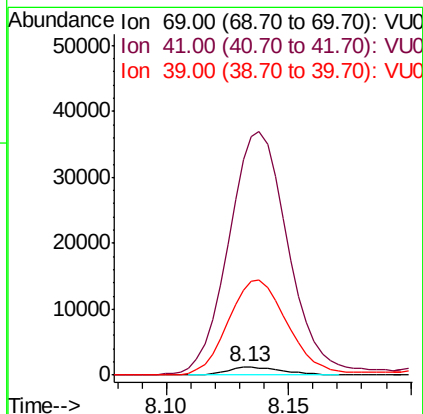
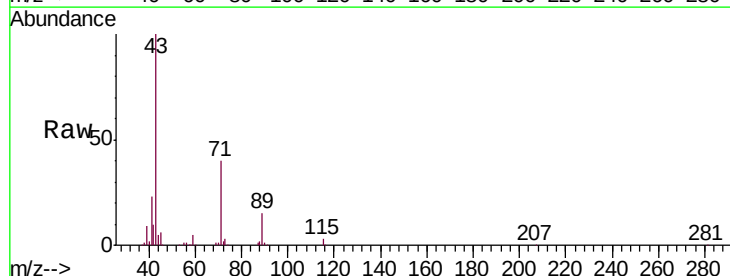
Tgt Ion: 69 Resp: 1940

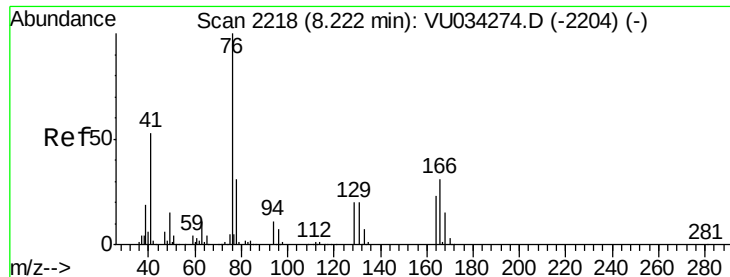
Ion Ratio Lower Upper

69 100

41 3266.1 49.5 74.3#

39 1270.2 22.5 33.7#

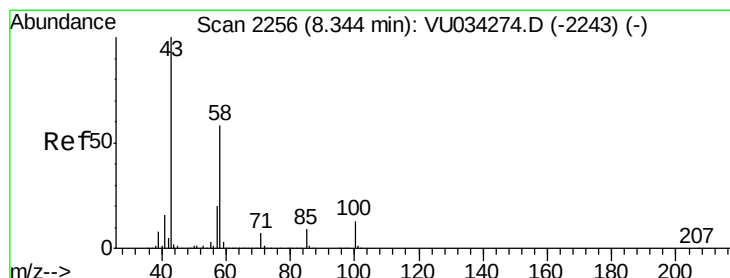
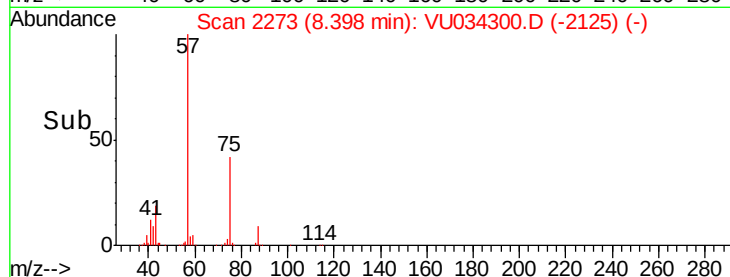
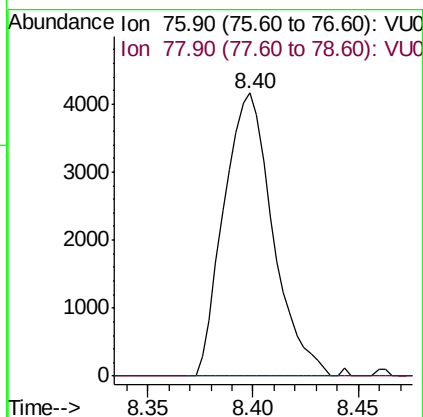
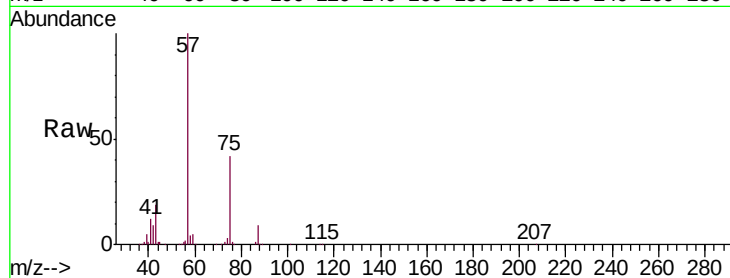




#57
 1,3-Dichloropropane
 Concen: 0.621 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034300.D
 Acq: 05 Sep 2019 21:44

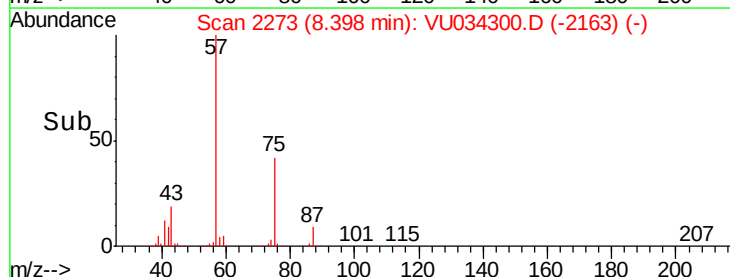
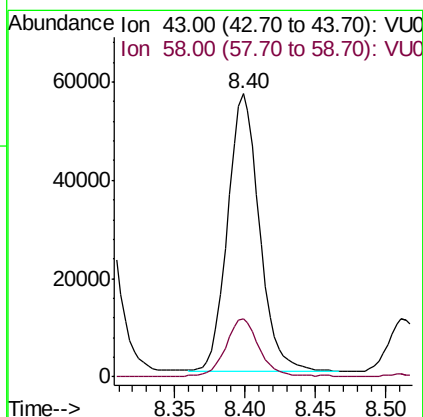
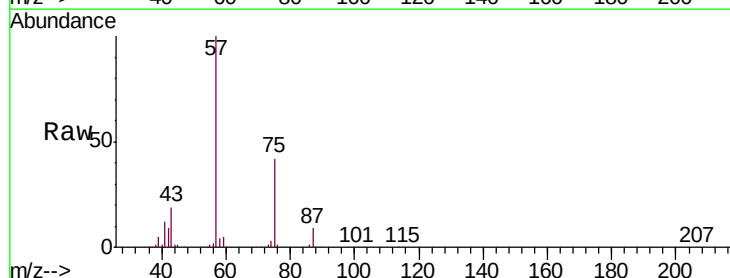
Instrument :
 MSVOA_U
 ClientSampleId :
 T8-S-G3-(0)

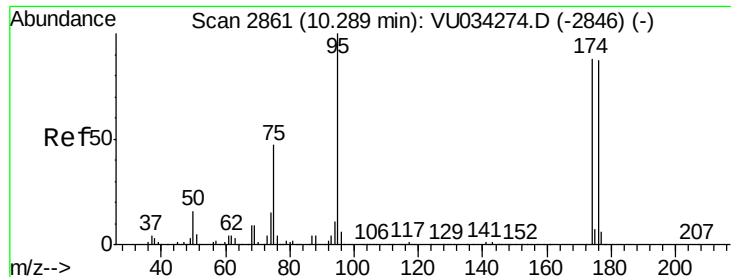
Tgt Ion: 76 Resp: 6712
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 12.894 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034300.D
 Acq: 05 Sep 2019 21:44

Tgt Ion: 43 Resp: 88787
 Ion Ratio Lower Upper
 43 100
 58 22.3 28.8 86.5#

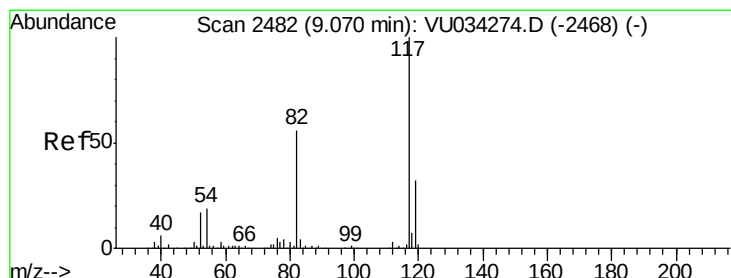
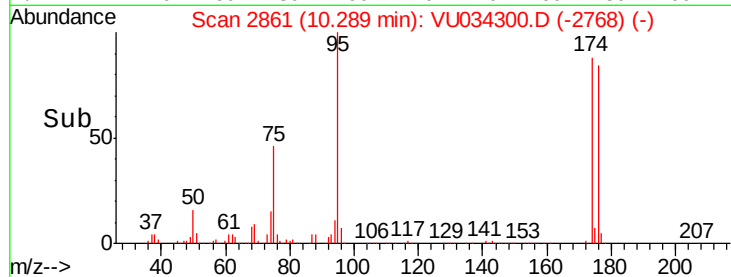
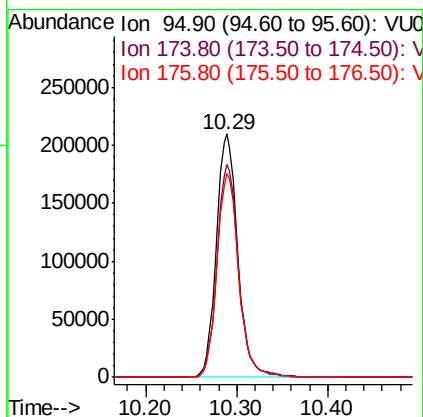
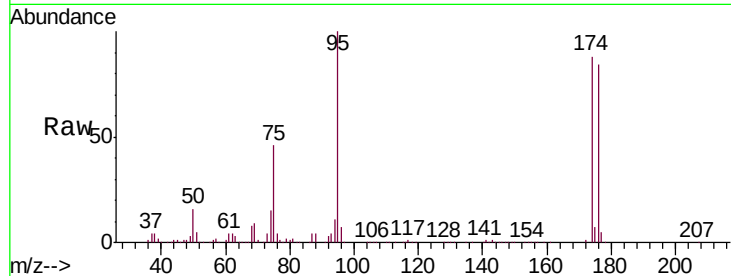




#62
4-Bromofluorobenzene
Concen: 38.319 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034300.D
Acq: 05 Sep 2019 21:44

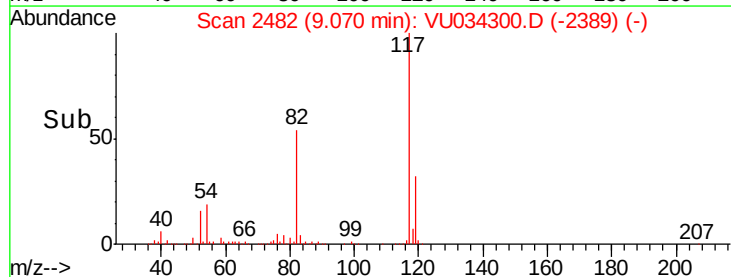
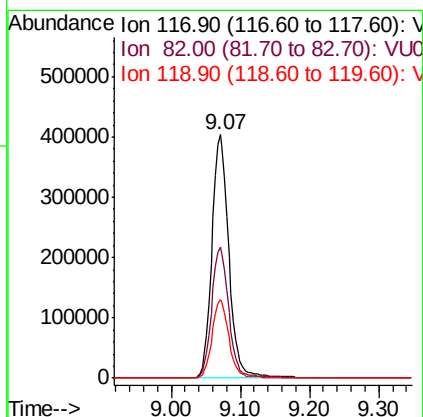
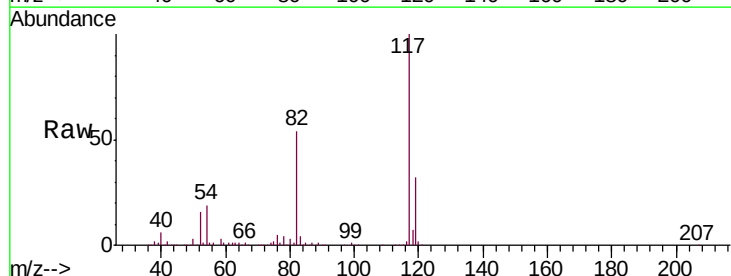
Instrument :
MSVOA_U
ClientSampleId :
T8-S-G3-(0)

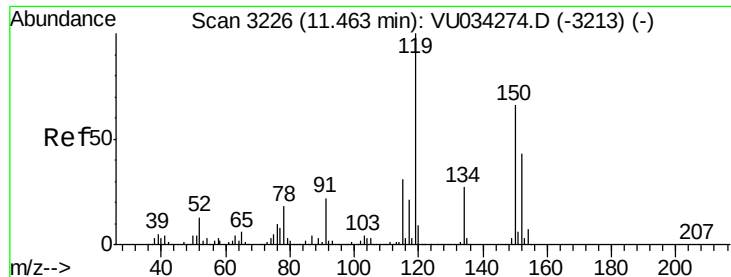
Tgt Ion: 95 Resp: 344306
Ion Ratio Lower Upper
95 100
174 87.8 0.0 175.2
176 84.4 0.0 168.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034300.D
Acq: 05 Sep 2019 21:44

Tgt Ion: 117 Resp: 684849
Ion Ratio Lower Upper
117 100
82 53.9 44.6 67.0
119 32.4 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VU034300.D

Acq: 05 Sep 2019 21:44

Instrument :

MSVOA_U

ClientSampleId :

T8-S-G3-(0)

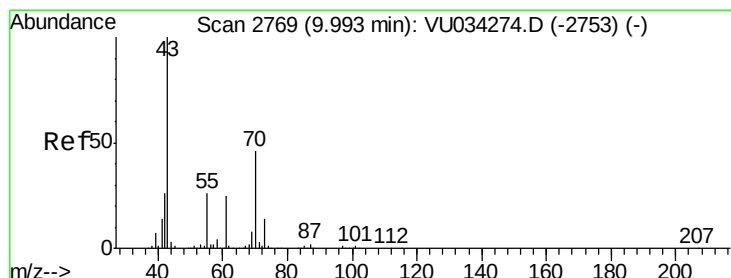
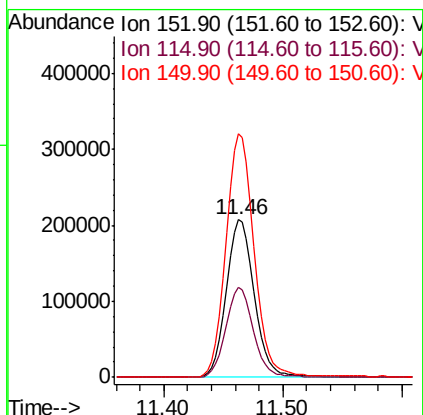
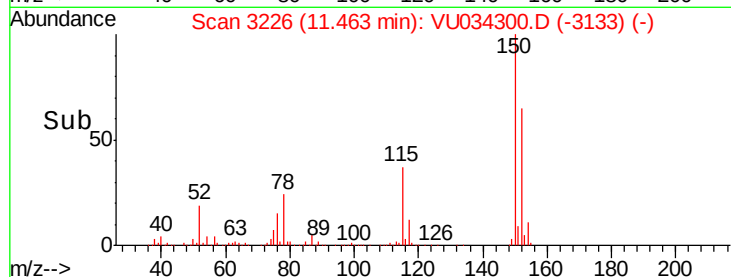
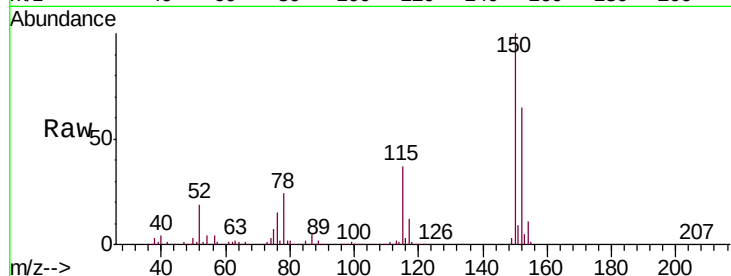
Tgt Ion:152 Resp: 338996

Ion Ratio Lower Upper

152 100

115 56.2 39.1 117.3

150 155.4 0.0 345.4



#74

N-ethyl acetate

Concen: 0.296 ug/l

RT: 9.92 min Scan# 2745

Delta R.T. -0.08 min

Lab File: VU034300.D

Acq: 05 Sep 2019 21:44

Tgt Ion: 43 Resp: 2630

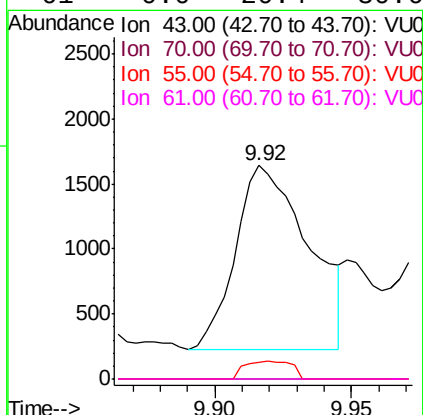
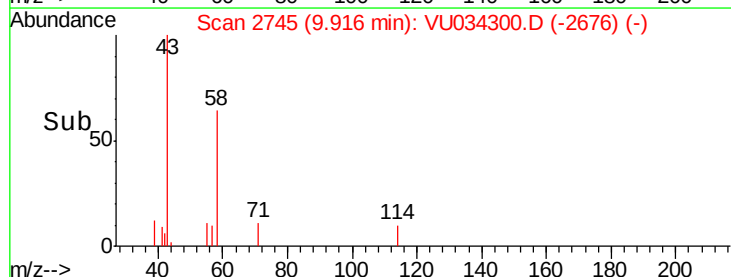
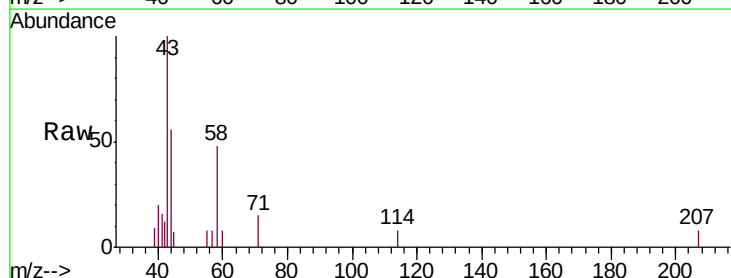
Ion Ratio Lower Upper

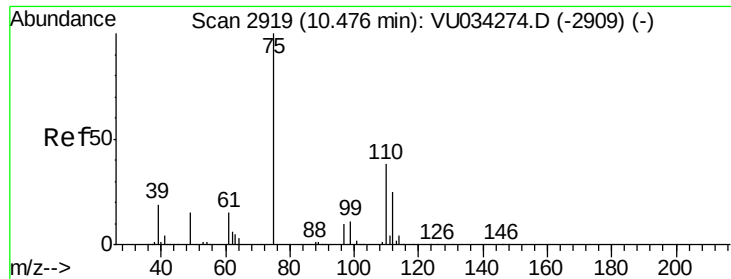
43 100

70 0.0 36.4 54.6#

55 6.3 21.2 31.8#

61 0.0 20.4 30.6#





#76

1,2,3-Trichloropropane

Concen: 21.766 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034300.D

Acq: 05 Sep 2019 21:44

Instrument :

MSVOA_U

ClientSampleId :

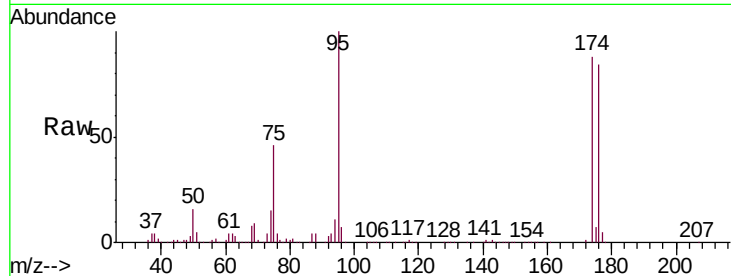
T8-S-G3-(0)

Tgt Ion: 75 Resp: 161058

Ion Ratio Lower Upper

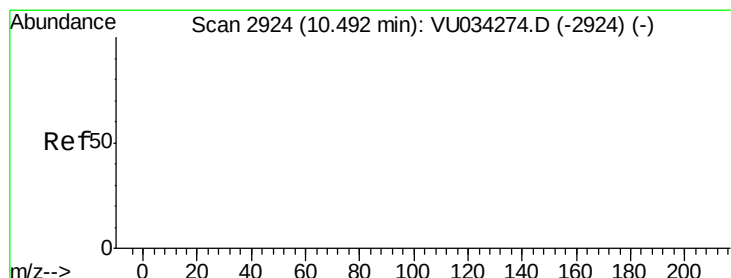
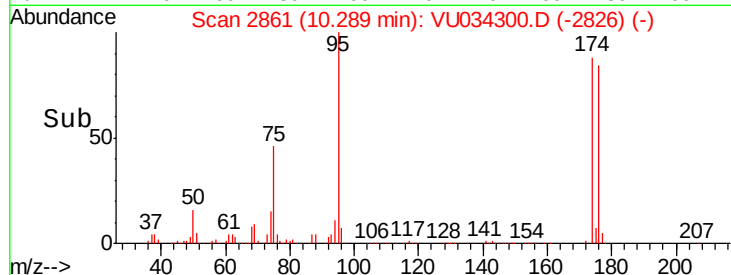
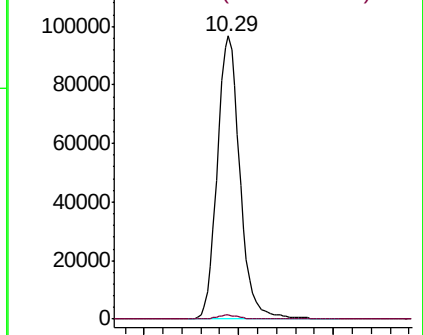
75 100

77 1.4 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 73.196 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034300.D

Acq: 05 Sep 2019 21:44

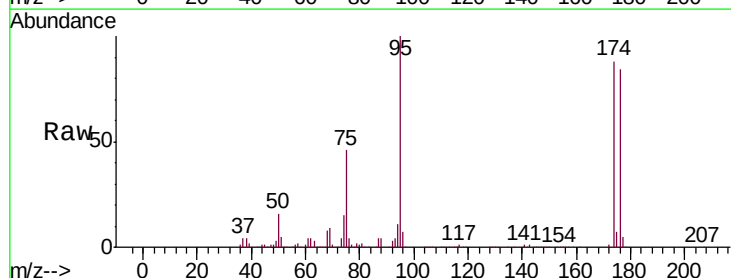
Tgt Ion: 75 Resp: 161058

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

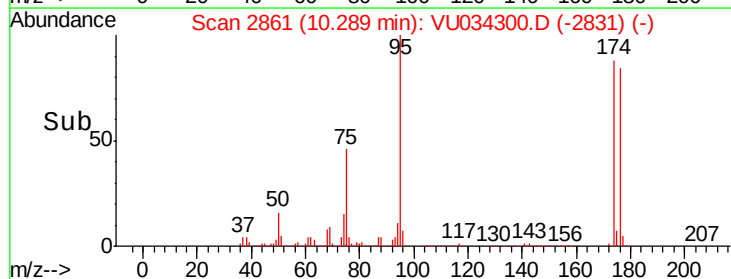
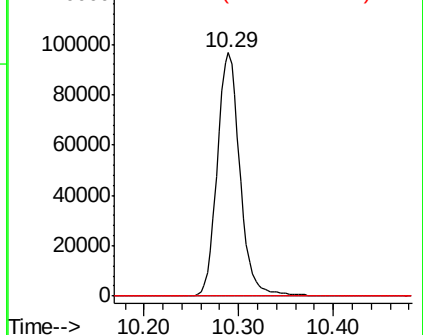
89 0.0 0.0 0.0

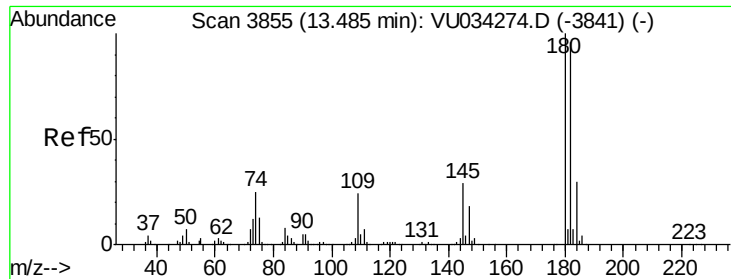


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

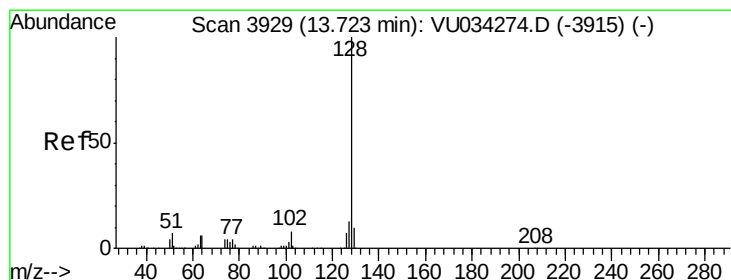
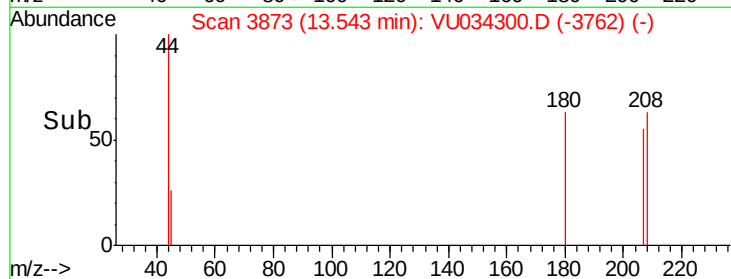
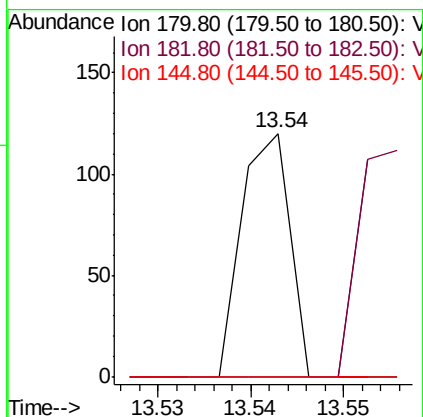
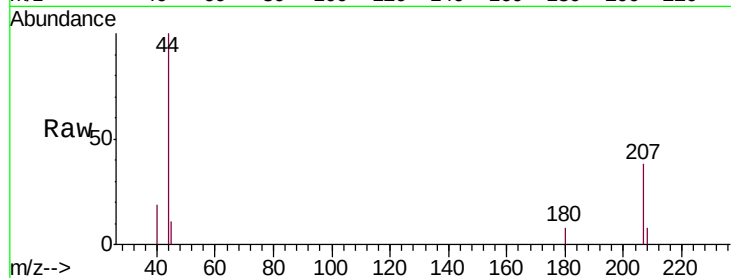




#93
 1,2,4-Trichlorobenzene
 Concen: 3.457 ug/l
 RT: 13.54 min Scan# 3873
 Delta R.T. 0.06 min
 Lab File: VU034300.D
 Acq: 05 Sep 2019 21:44

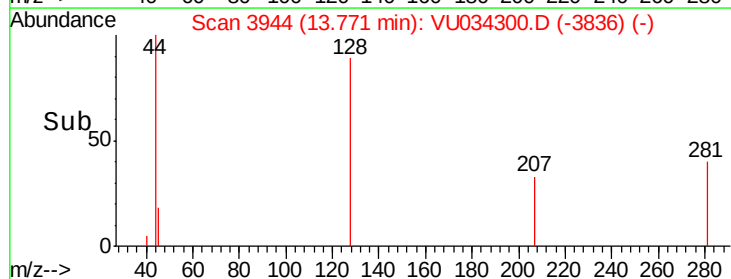
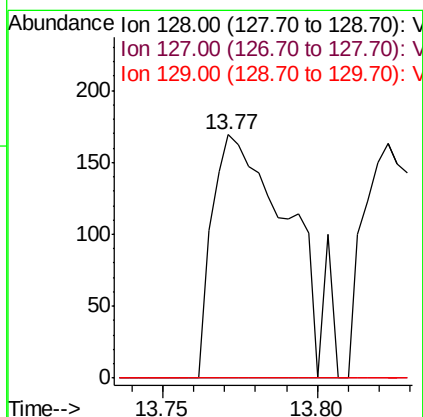
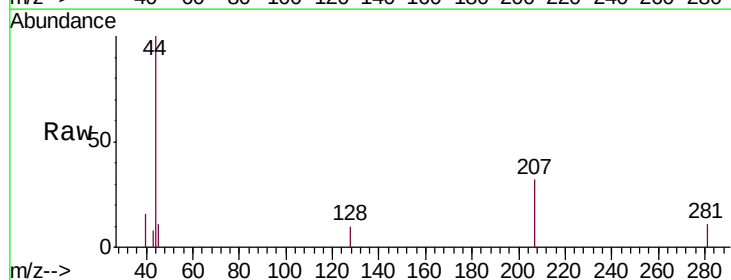
Instrument :
 MSVOA_U
 ClientSampleId :
 T8-S-G3-(0)

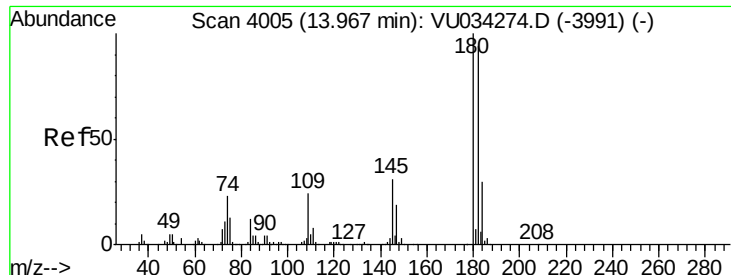
Tgt Ion:180 Resp: 43
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.8#
 145 0.0 14.4 43.0#



#95
 Naphthalene
 Concen: 3.978 ug/l
 RT: 13.77 min Scan# 3944
 Delta R.T. 0.05 min
 Lab File: VU034300.D
 Acq: 05 Sep 2019 21:44

Tgt Ion:128 Resp: 296
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 15.8#
 129 0.0 8.4 12.6#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.641 ug/l
 RT: 14.00 min Scan# 4016
 Delta R.T. 0.04 min
 Lab File: VU034300.D
 Acq: 05 Sep 2019 21:44

Instrument :
 MSVOA_U
 ClientSampleId :
 T8-S-G3-(0)

Tgt Ion:180 Resp: 20
 Ion Ratio Lower Upper
 180 100
 182 575.0 48.4 145.0#
 145 0.0 15.4 46.4#

