

Data File : VU034309.D
Acq On : 06 Sep 2019 01:14
Operator : JC/SP
Sample : K4579-27
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 43 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B2-(0)

Quant Time: Sep 06 07:46:15 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	432220	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	669026	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	670734	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	332186	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	277358	42.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.82%	
35) Dibromofluoromethane	4.86	113	243149	39.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.12%	
50) Toluene-d8	7.55	98	963847	41.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.42%	
62) 4-Bromofluorobenzene	10.29	95	335907	37.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.40%	

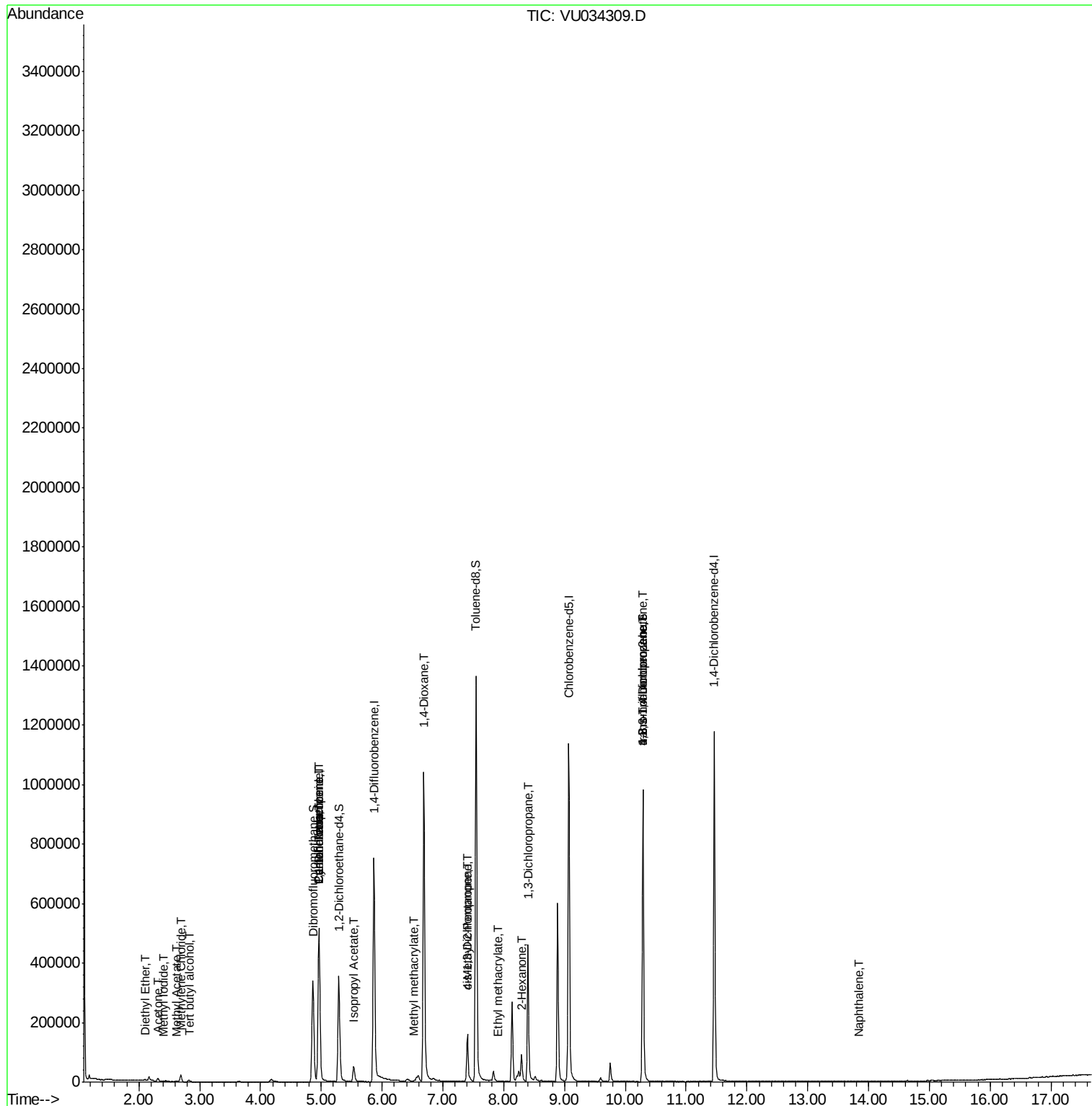
Target Compounds			Qvalue			
5) Bromomethane	1.63	94	409	Below Cal		86
6) Chloroethane	1.68	64	67	Below Cal	#	43
8) Diethyl Ether	2.10	74	1172	0.353	ug/l	96
10) Methyl Iodide	2.41	142	88	3.864	ug/l #	43
11) Tert butyl alcohol	2.83	59	3796	2.748	ug/l #	73
16) Acetone	2.31	43	12212	3.609	ug/l	96
18) Methyl Acetate	2.62	43	2717	0.330	ug/l	100
20) Methylene Chloride	2.69	84	10105	1.435	ug/l	96
31) Cyclohexane	4.96	56	6929	0.905	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	29234	4.029	ug/l #	49
38) Carbon Tetrachloride	4.96	117	37270	4.811	ug/l #	16
43) Isopropyl Acetate	5.53	43	61319	4.582	ug/l	100
48) Methyl methacrylate	6.53	41	3898	0.613	ug/l #	13
49) 1,4-Dioxane	6.68	88	143	1.030	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	55447	5.986	ug/l #	46
54) cis-1,3-Dichloropropene	7.41	75	30321	3.014	ug/l #	64
56) Ethyl methacrylate	7.91	69	119	3.088	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	4919	0.453	ug/l #	43
59) 2-Hexanone	8.29	43	72445	10.469	ug/l #	22
76) 1,2,3-Trichloropropane	10.29	75	158610	21.874	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	158610	73.561	ug/l #	100
95) Naphthalene	13.84	128	73	3.969	ug/l #	69

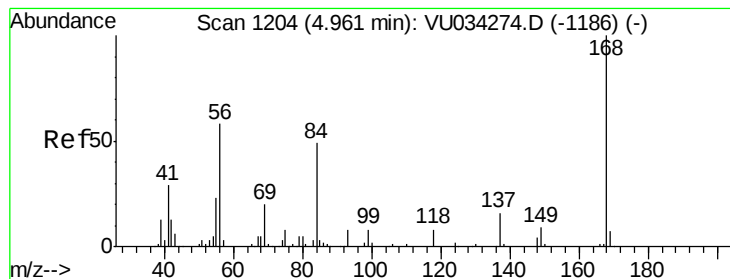
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034309.D

Acq: 06 Sep 2019 01:14

Instrument :

MSVOA_U

ClientSampleId :

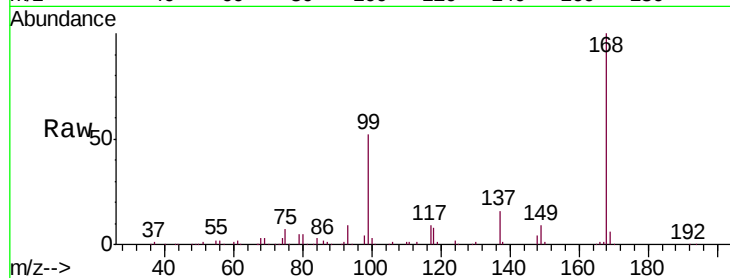
PAR-12-B2-(0)

Tgt Ion:168 Resp: 432220

Ion Ratio Lower Upper

168 100

99 51.5 41.6 62.4



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

Ion 98.90 (98.60 to 99.60): VU034309.D (-1111) (-)

4.96

200000

150000

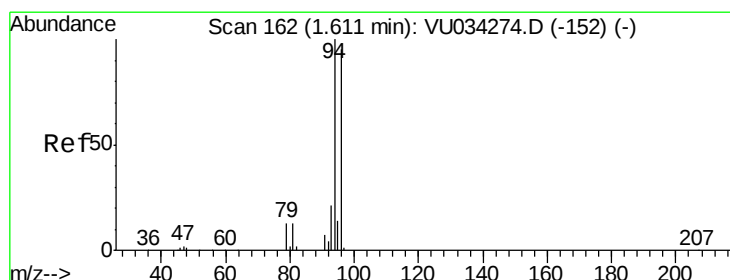
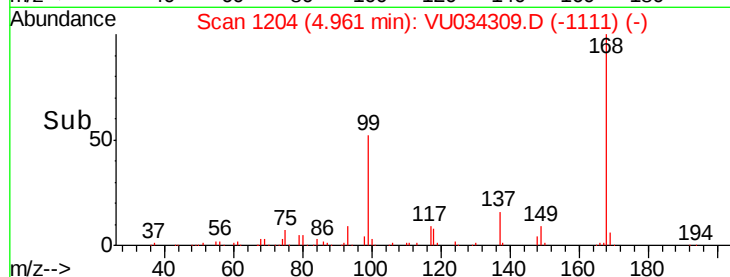
100000

50000

0

4.90 5.00 5.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.02 min

Lab File: VU034309.D

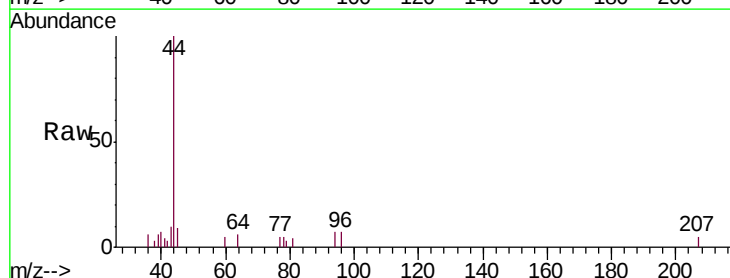
Acq: 06 Sep 2019 01:14

Tgt Ion: 94 Resp: 409

Ion Ratio Lower Upper

94 100

96 108.4 75.7 113.5



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

Ion 95.90 (95.60 to 96.60): VU034309.D (-68) (-)

1.63

400

300

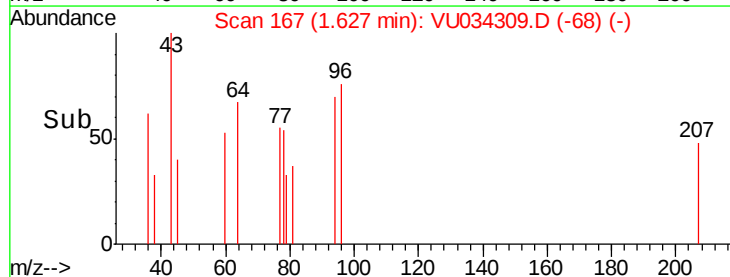
200

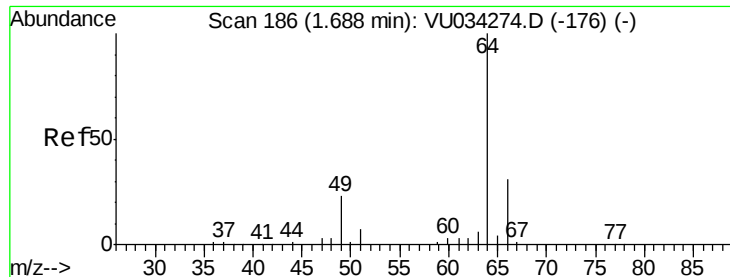
100

0

1.60 1.62 1.64

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU034309.D

Acq: 06 Sep 2019 01:14

Instrument :

MSVOA_U

ClientSampleId :

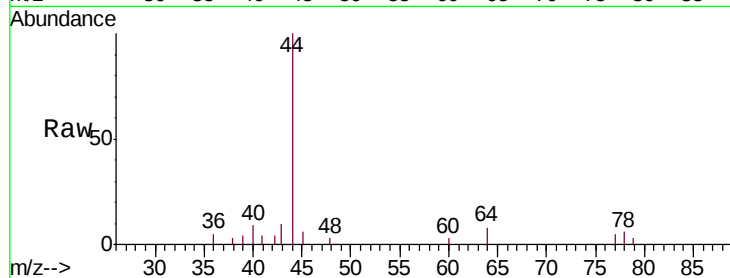
PAR-12-B2-(0)

Tgt Ion: 64 Resp: 67

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) (-)

Ion 65.90 (65.60 to 66.60): VU034274.D (-176) (-)

1.68

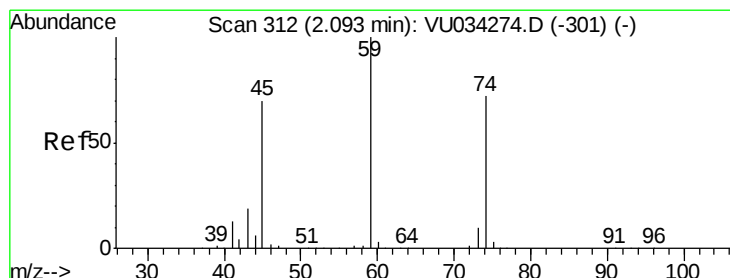
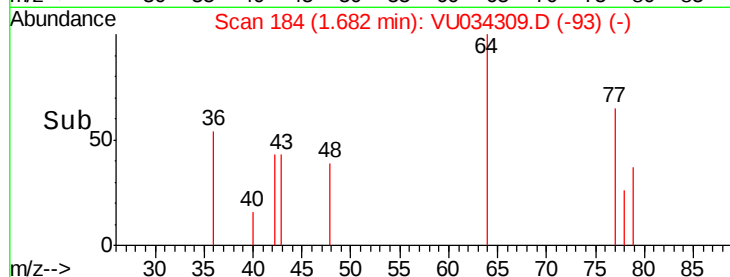
300

200

100

0

Time-->



#8

Diethyl Ether

Concen: 0.353 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.00 min

Lab File: VU034309.D

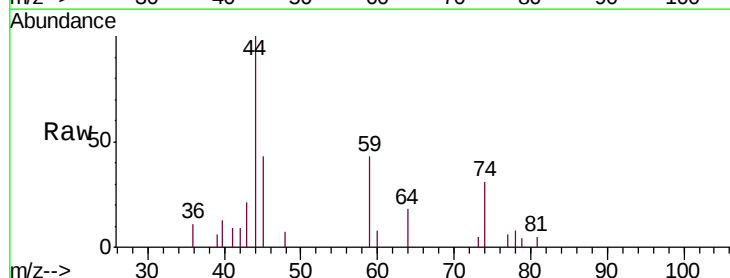
Acq: 06 Sep 2019 01:14

Tgt Ion: 74 Resp: 1172

Ion Ratio Lower Upper

74 100

45 100.7 48.2 144.6



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

Ion 45.00 (44.70 to 45.70): VU034274.D (-301) (-)

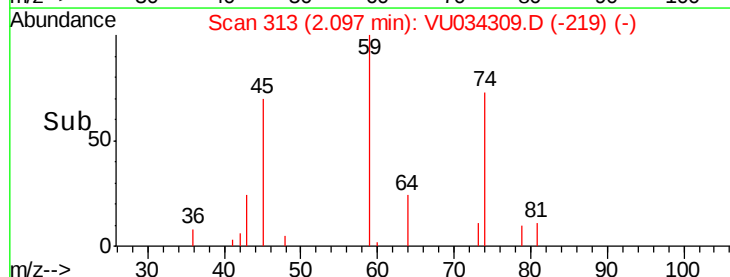
2.10

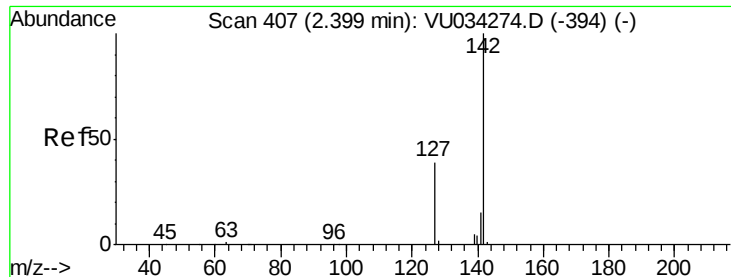
1000

500

0

Time-->

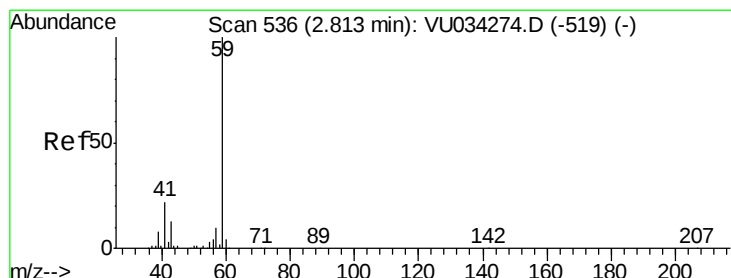
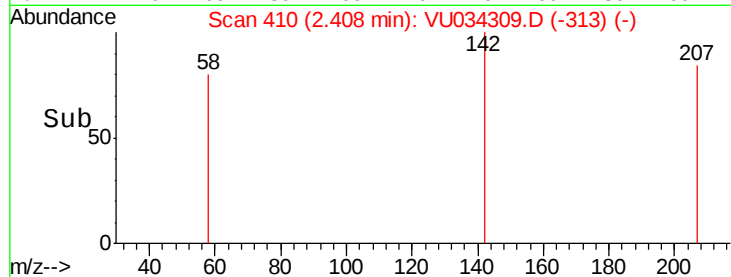
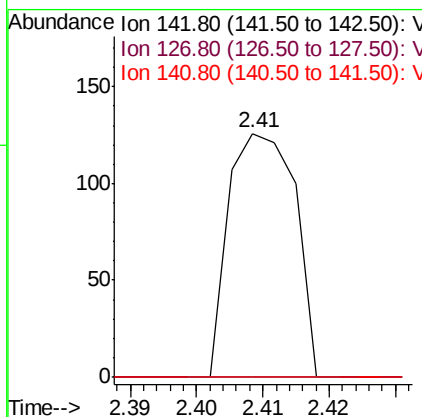
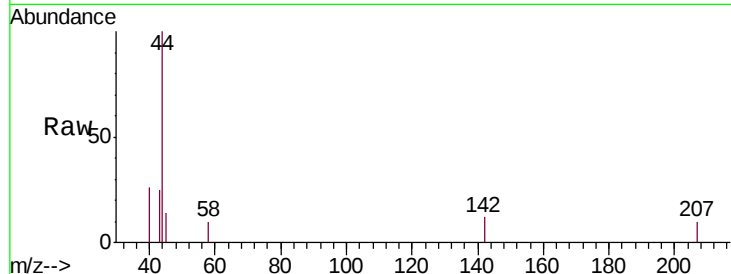




#10
Methyl Iodide
Concen: 3.864 ug/l
RT: 2.41 min Scan# 410
Delta R.T. 0.01 min
Lab File: VU034309.D
Acq: 06 Sep 2019 01:14

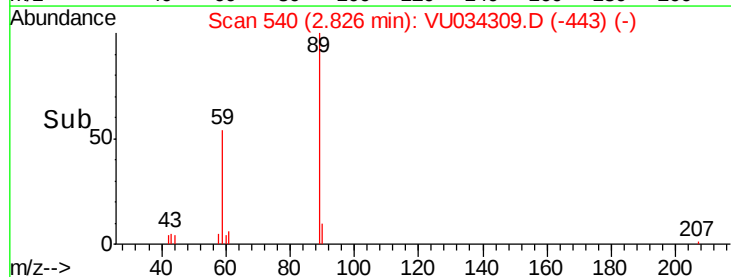
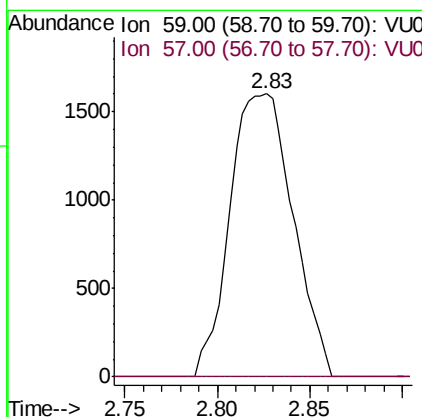
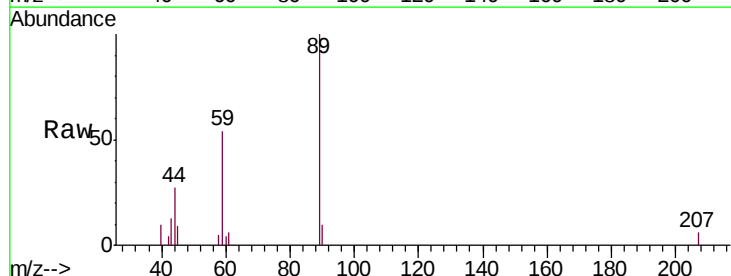
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B2-(0)

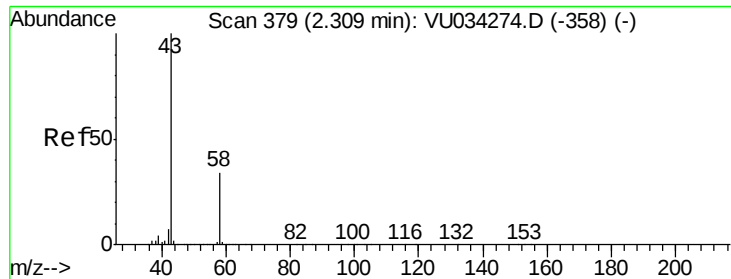
Tgt Ion: 142 Resp: 88
Ion Ratio Lower Upper
142 100
127 0.0 32.1 48.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 2.748 ug/l
RT: 2.83 min Scan# 540
Delta R.T. 0.01 min
Lab File: VU034309.D
Acq: 06 Sep 2019 01:14

Tgt Ion: 59 Resp: 3796
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#

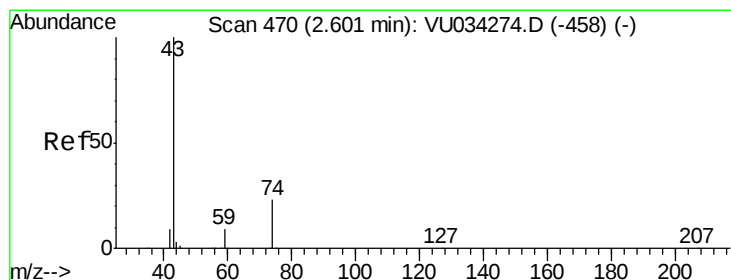
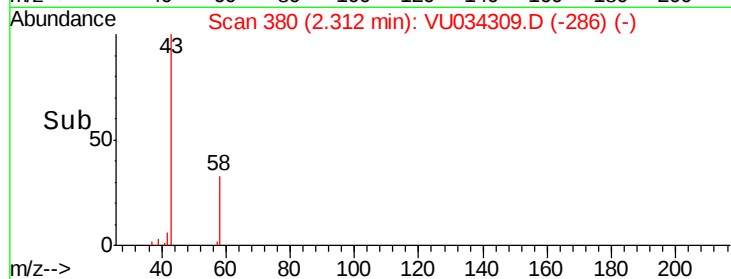
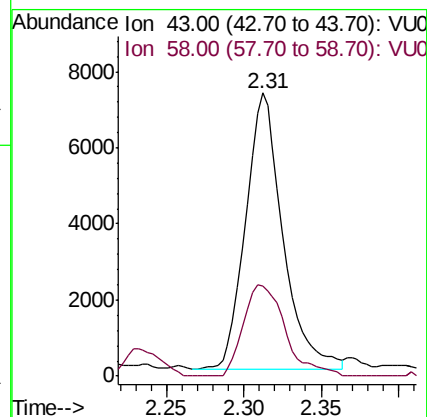
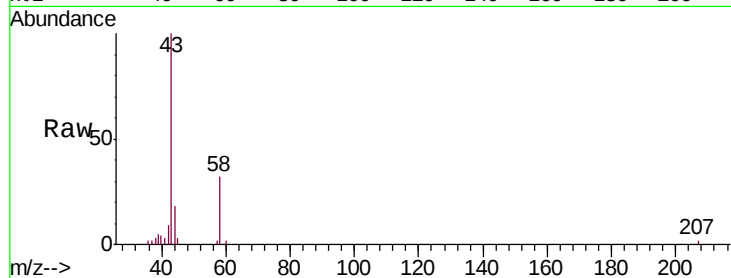




#16
Acetone
Concen: 3.609 ug/l
RT: 2.31 min Scan# 380
Delta R.T. 0.00 min
Lab File: VU034309.D
Acq: 06 Sep 2019 01:14

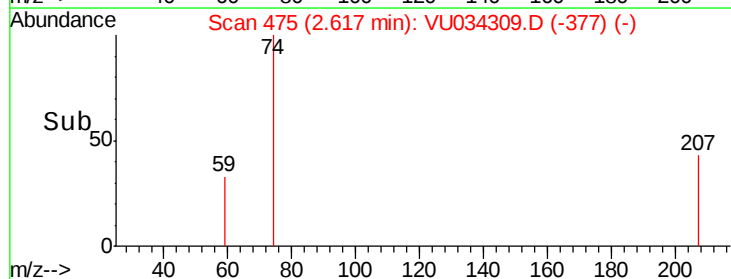
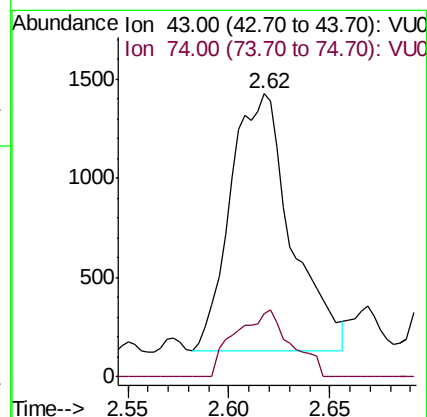
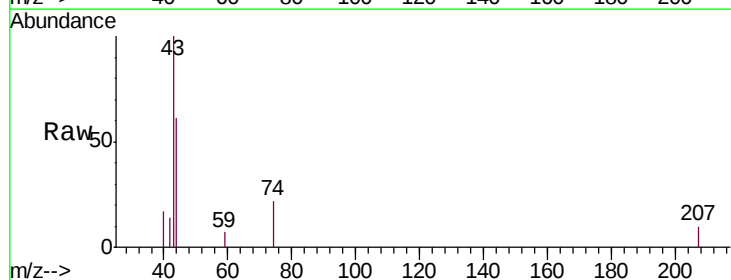
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B2-(0)

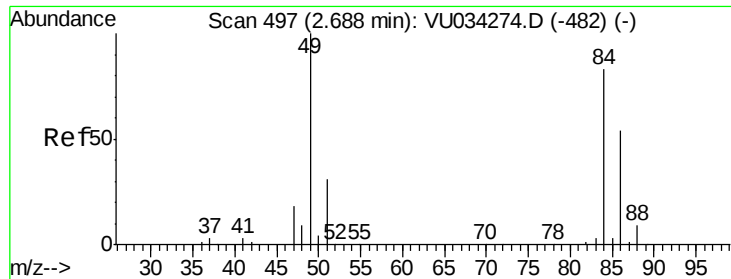
Tgt Ion: 43 Resp: 12212
Ion Ratio Lower Upper
43 100
58 32.4 27.6 41.4



#18
Methyl Acetate
Concen: 0.330 ug/l
RT: 2.62 min Scan# 475
Delta R.T. 0.02 min
Lab File: VU034309.D
Acq: 06 Sep 2019 01:14

Tgt Ion: 43 Resp: 2717
Ion Ratio Lower Upper
43 100
74 23.6 18.9 28.3

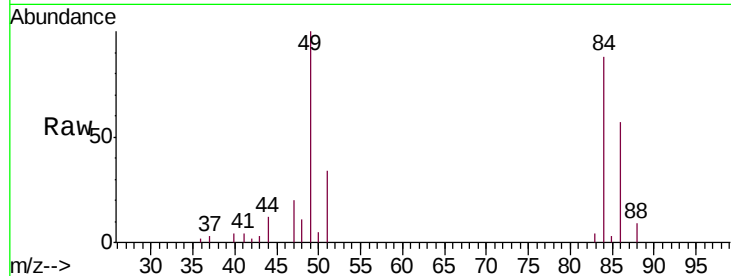




#20
Methylene Chloride
Concen: 1.435 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034309.D
Acq: 06 Sep 2019 01:14

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B2-(0)

Tgt Ion:	84	Resp:	10105
Ion	Ratio	Lower	Upper
84	100		
49	113.9	96.0	144.0
51	38.7	30.0	45.0
86	64.9	51.4	77.0

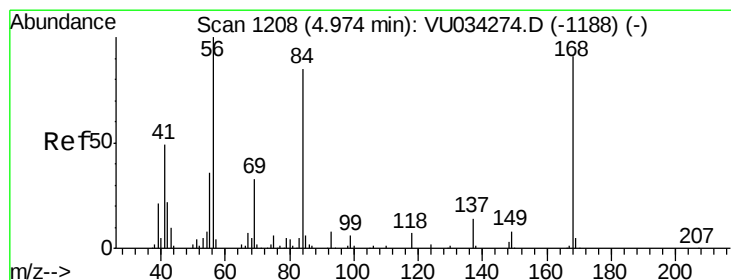
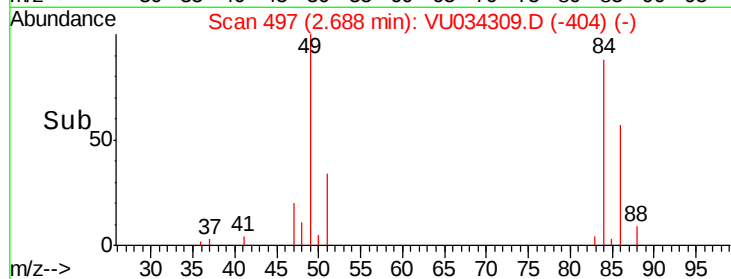
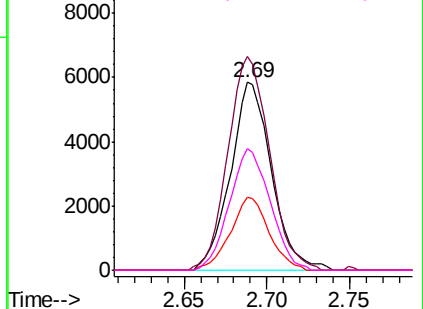


Abundance Ion 83.90 (83.60 to 84.60): VU034309.D (-404) (-)

Ion 48.90 (48.60 to 49.60): VU034309.D (-404) (-)

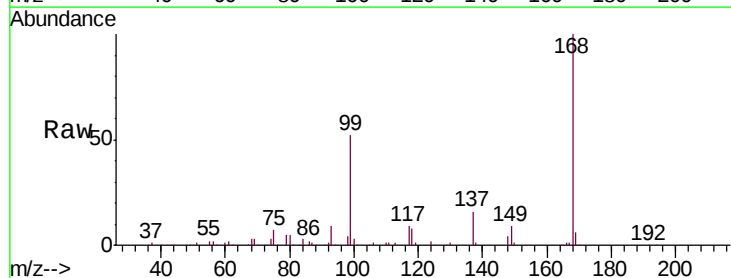
Ion 50.90 (50.60 to 51.60): VU034309.D (-404) (-)

Ion 85.90 (85.60 to 86.60): VU034309.D (-404) (-)



#31
Cyclohexane
Concen: 0.905 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034309.D
Acq: 06 Sep 2019 01:14

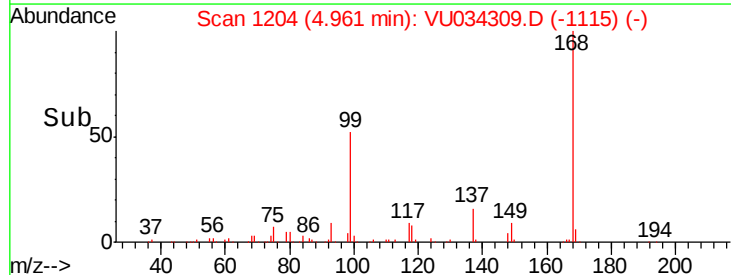
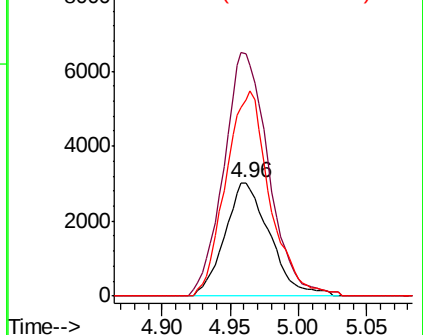
Tgt Ion:	56	Resp:	6929
Ion	Ratio	Lower	Upper
56	100		
69	213.4	26.7	40.1#
84	172.6	68.2	102.4#

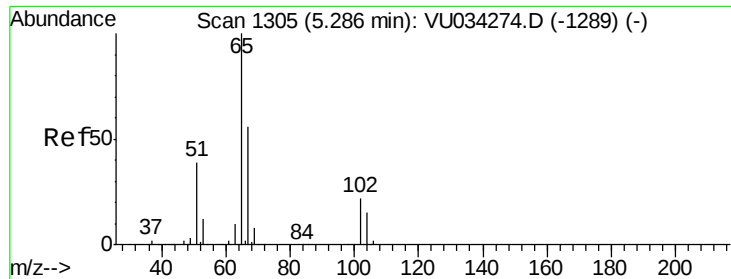


Abundance Ion 56.00 (55.70 to 56.70): VU034309.D (-1115) (-)

Ion 69.00 (68.70 to 69.70): VU034309.D (-1115) (-)

Ion 84.00 (83.70 to 84.70): VU034309.D (-1115) (-)

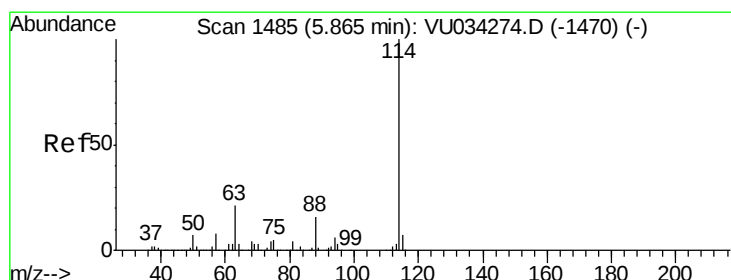
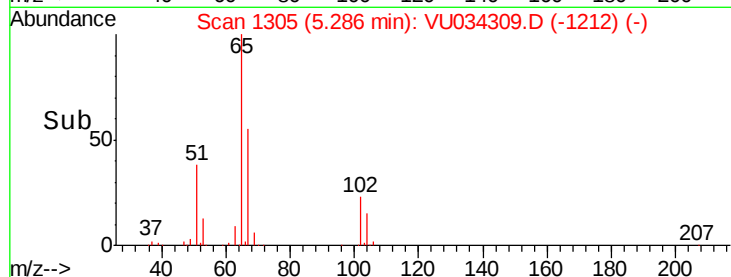
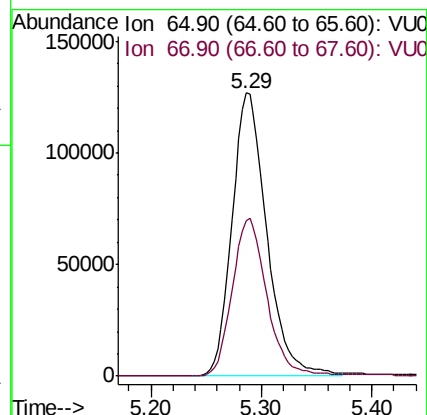
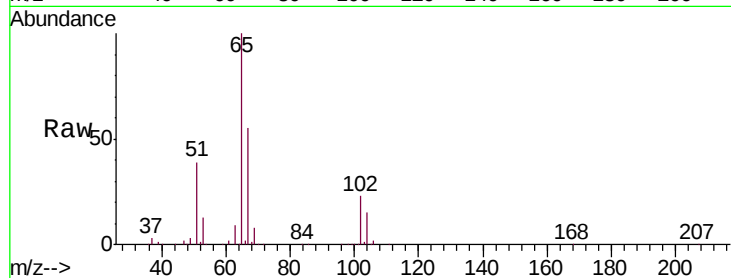




#33
 1,2-Dichloroethane-d4
 Concen: 42.412 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034309.D
 Acq: 06 Sep 2019 01:14

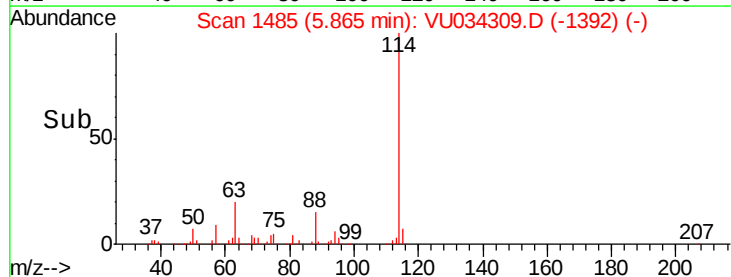
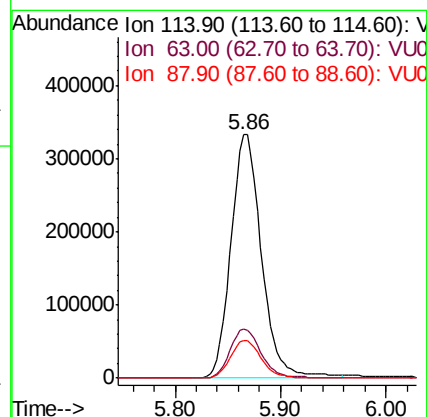
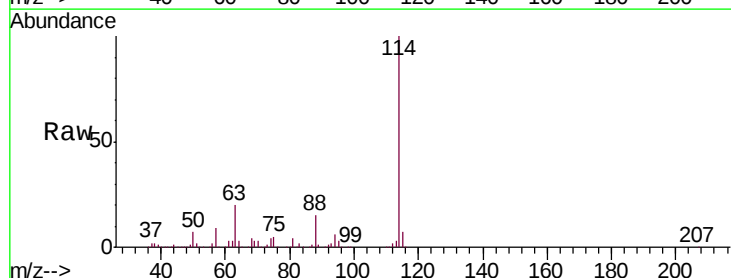
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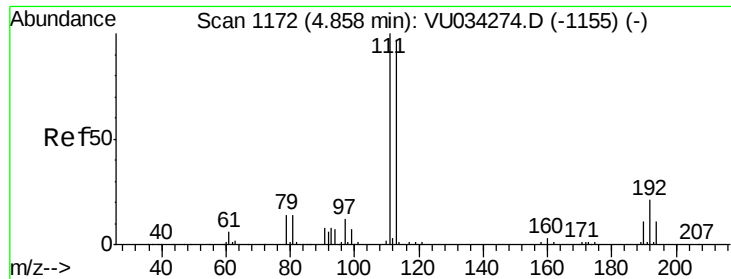
Tgt Ion: 65 Resp: 277358
 Ion Ratio Lower Upper
 65 100
 67 56.0 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034309.D
 Acq: 06 Sep 2019 01:14

Tgt Ion: 114 Resp: 669026
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 42.4
 88 15.4 0.0 32.4





#35

Dibromofluoromethane

Concen: 39.058 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034309.D

Acq: 06 Sep 2019 01:14

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B2-(0)

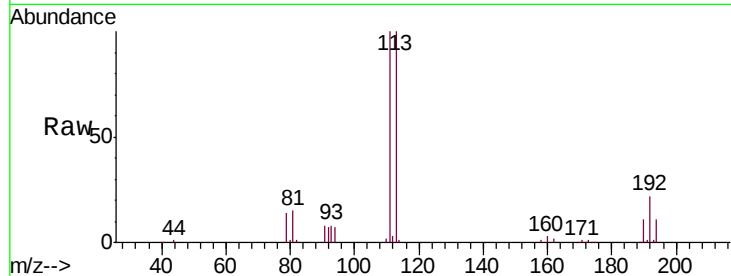
Tgt Ion:113 Resp: 243149

Ion Ratio Lower Upper

113 100

111 101.8 81.5 122.3

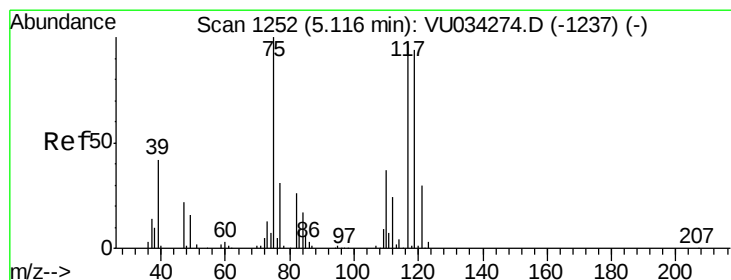
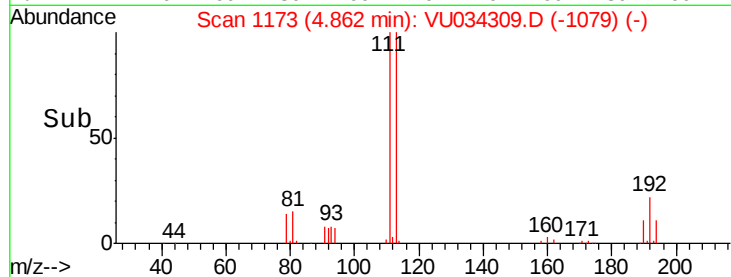
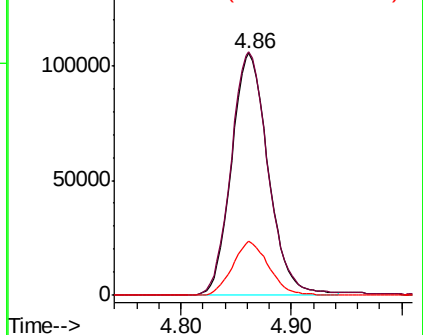
192 22.1 17.8 26.8



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: 4.029 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034309.D

Acq: 06 Sep 2019 01:14

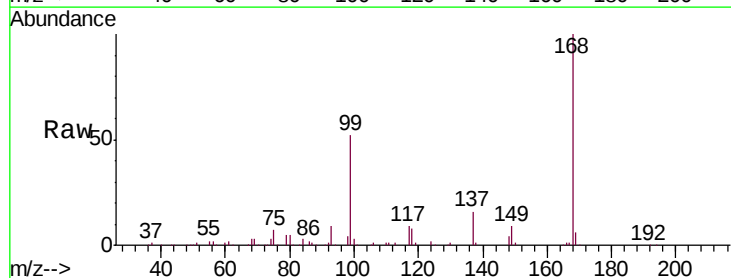
Tgt Ion: 75 Resp: 29234

Ion Ratio Lower Upper

75 100

110 9.0 18.3 54.9#

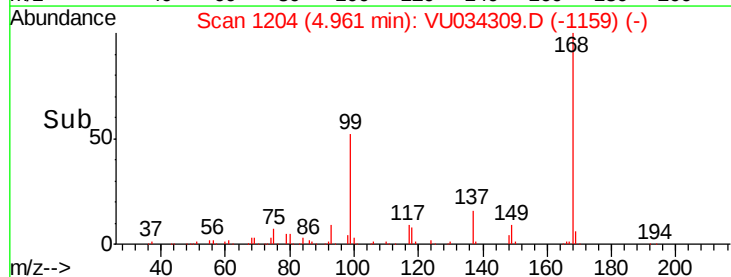
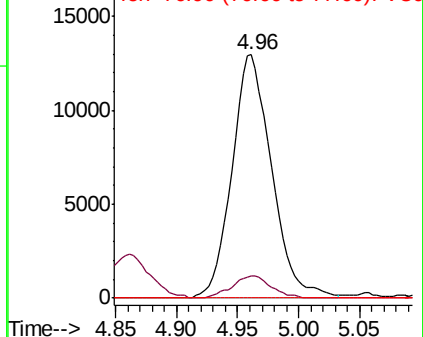
77 0.0 24.9 37.3#

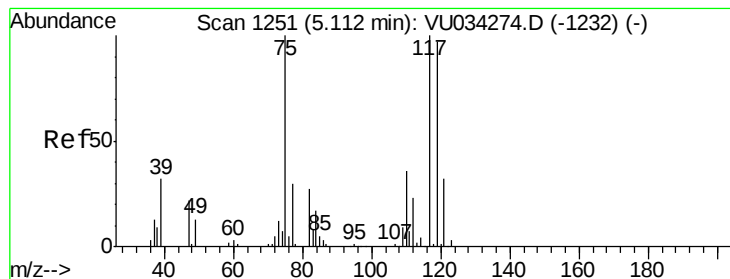


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.811 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034309.D

Acq: 06 Sep 2019 01:14

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B2-(0)

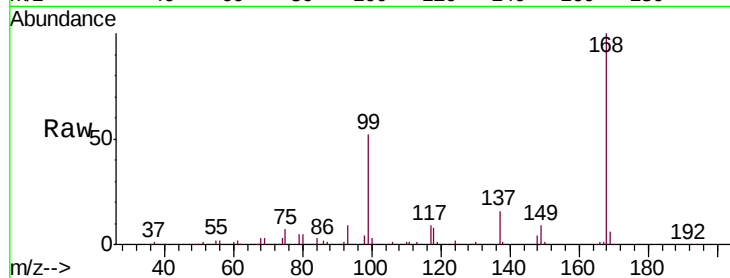
Tgt Ion:117 Resp: 37270

Ion Ratio Lower Upper

117 100

119 5.9 77.8 116.6#

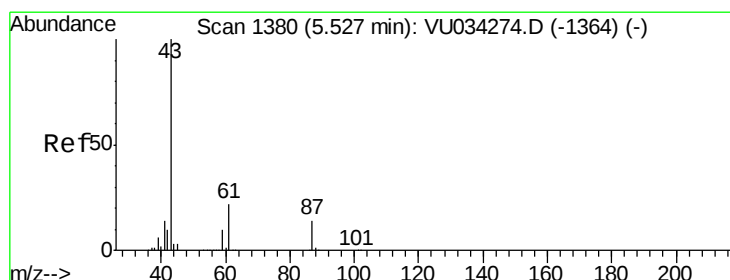
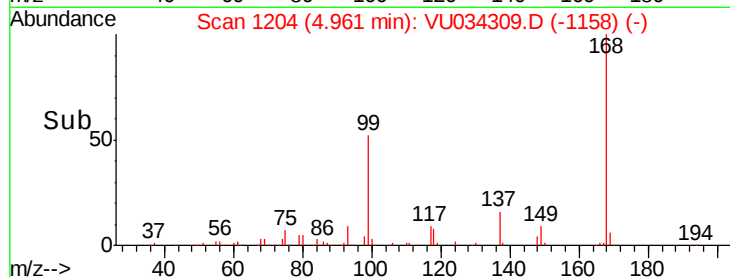
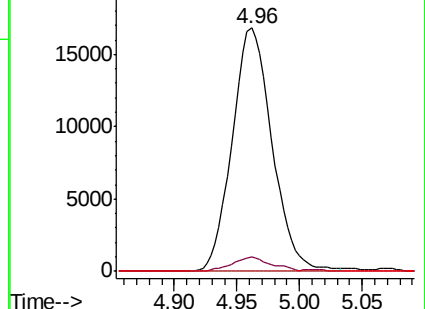
121 0.0 25.2 37.8#



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: 4.582 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034309.D

Acq: 06 Sep 2019 01:14

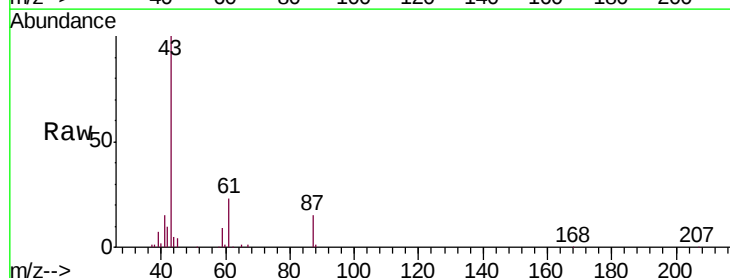
Tgt Ion: 43 Resp: 61319

Ion Ratio Lower Upper

43 100

61 21.3 17.1 25.7

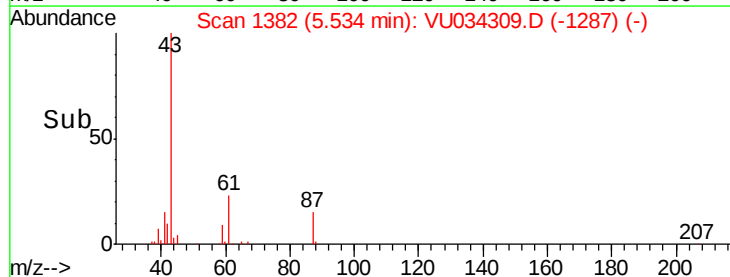
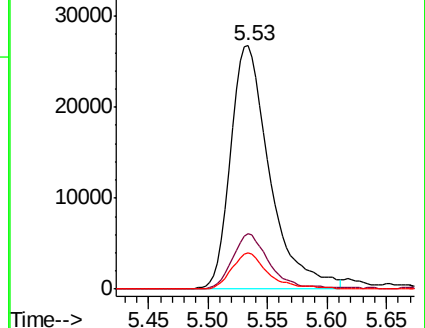
87 13.8 11.1 16.7

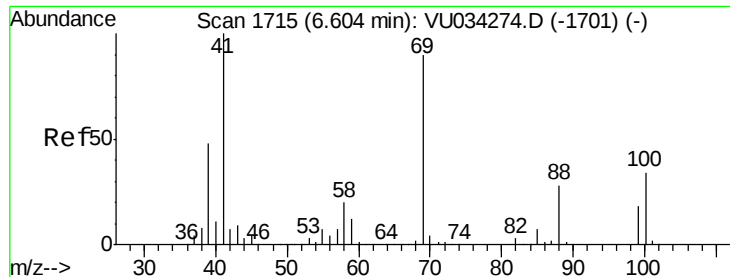


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#48

Methyl methacrylate

Concen: 0.613 ug/l

RT: 6.53 min Scan# 1691

Delta R.T. -0.08 min

Lab File: VU034309.D

Acq: 06 Sep 2019 01:14

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B2-(0)

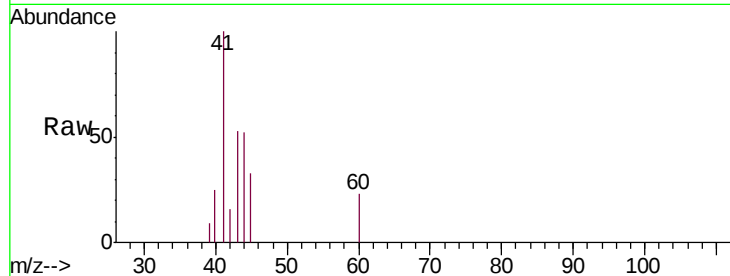
Tgt Ion: 41 Resp: 3898

Ion Ratio Lower Upper

41 100

69 0.0 72.8 109.2#

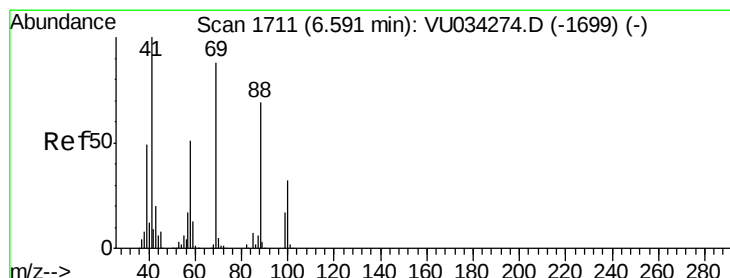
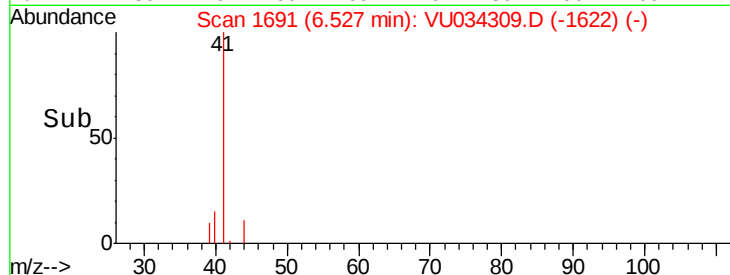
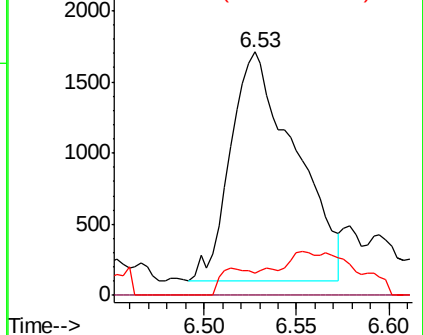
39 0.0 38.6 58.0#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0



#49

1,4-Dioxane

Concen: 1.030 ug/l

RT: 6.68 min Scan# 1739

Delta R.T. 0.09 min

Lab File: VU034309.D

Acq: 06 Sep 2019 01:14

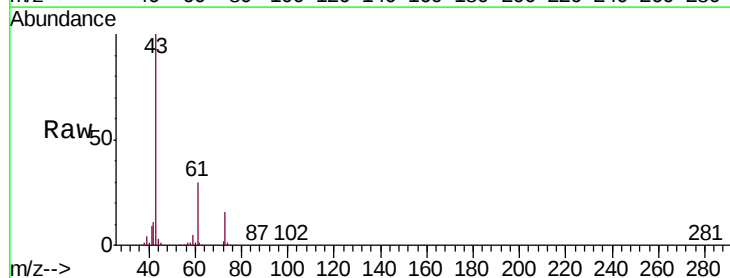
Tgt Ion: 88 Resp: 143

Ion Ratio Lower Upper

88 100

43 718846.9 23.8 35.6#

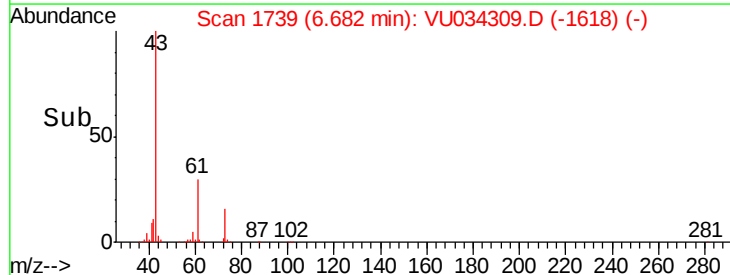
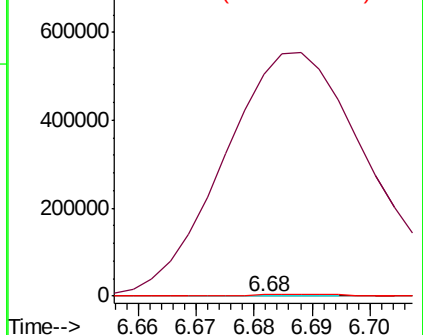
58 4188.8 58.4 87.6#

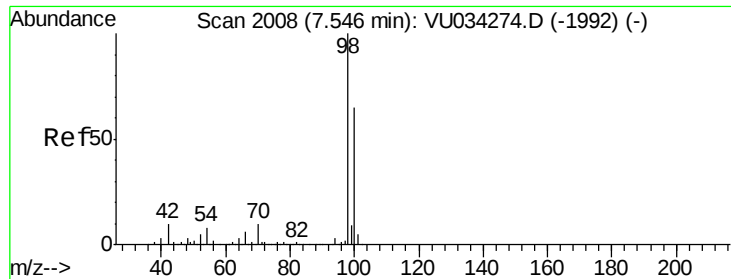


Abundance Ion 88.00 (87.70 to 88.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

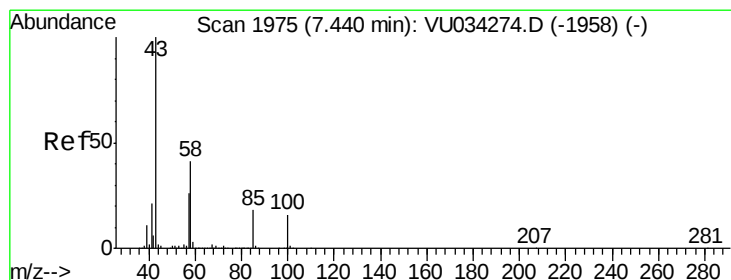
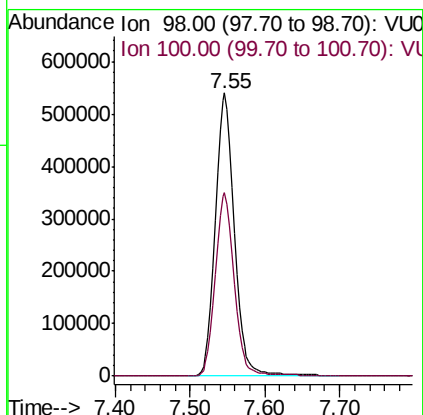
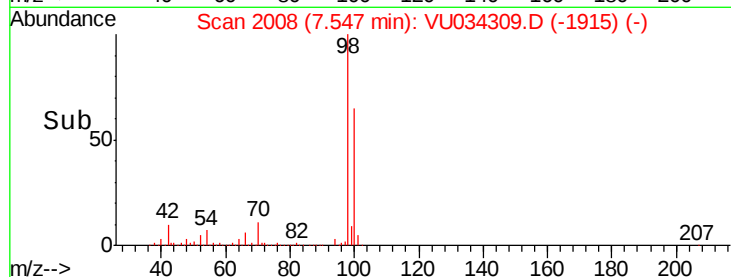
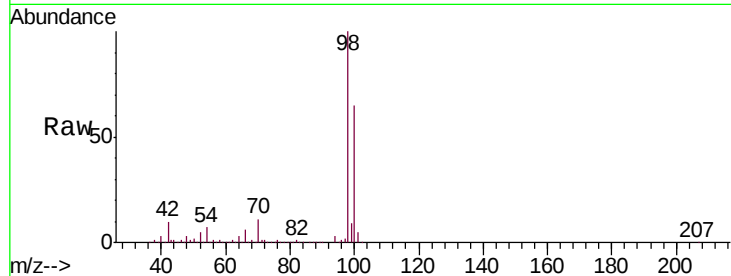




#50
Toluene-d8
Concen: 41.210 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034309.D
Acq: 06 Sep 2019 01:14

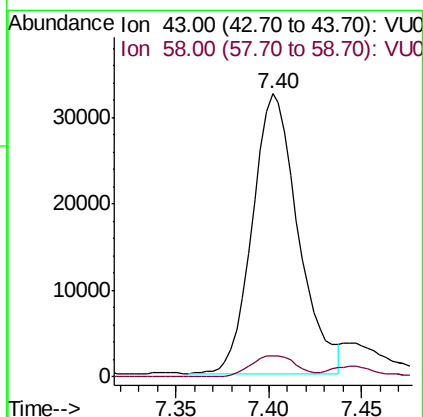
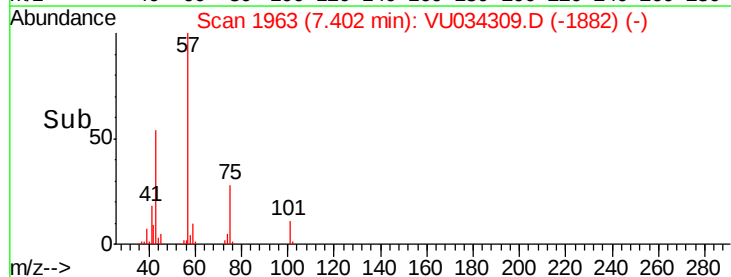
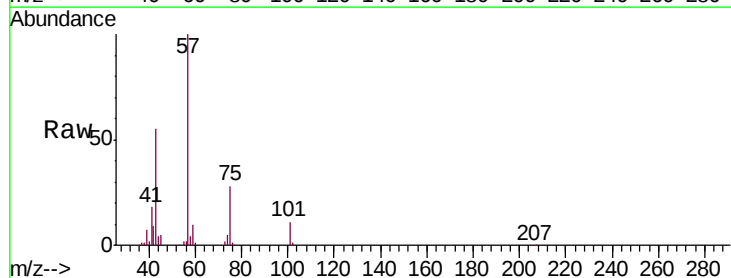
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B2-(0)

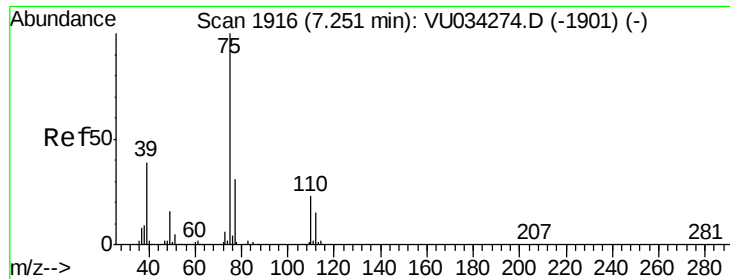
Tgt Ion: 98 Resp: 963847
Ion Ratio Lower Upper
98 100
100 64.5 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 5.986 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034309.D
Acq: 06 Sep 2019 01:14

Tgt Ion: 43 Resp: 55447
Ion Ratio Lower Upper
43 100
58 7.6 33.0 49.4#

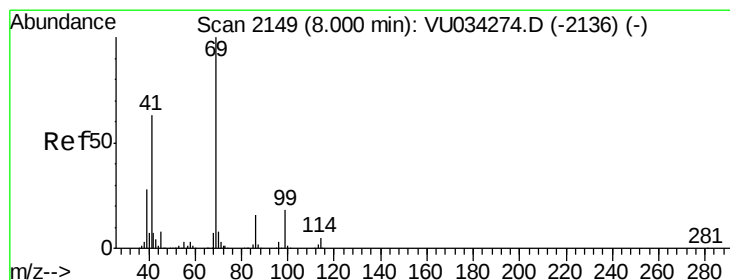
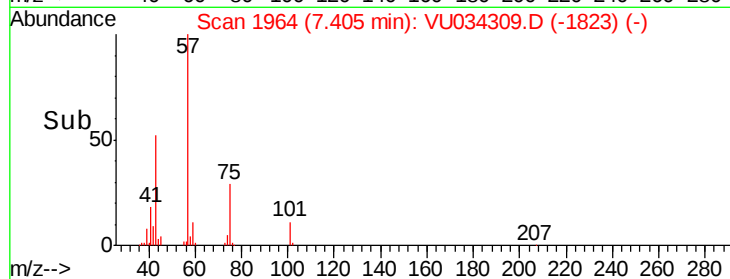
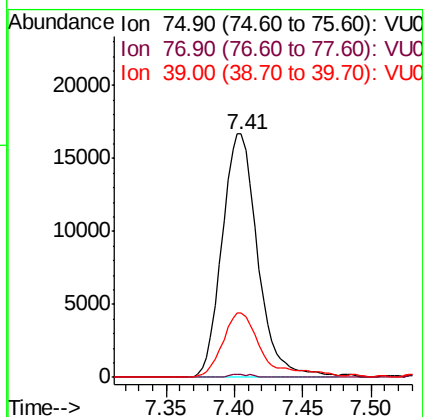
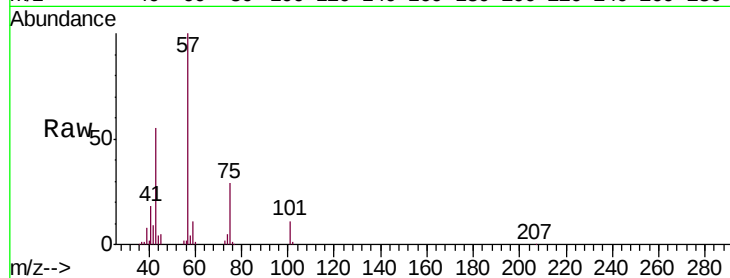




#54
 cis-1,3-Dichloropropene
 Concen: 3.014 ug/l
 RT: 7.41 min Scan# 1964
 Delta R.T. 0.15 min
 Lab File: VU034309.D
 Acq: 06 Sep 2019 01:14

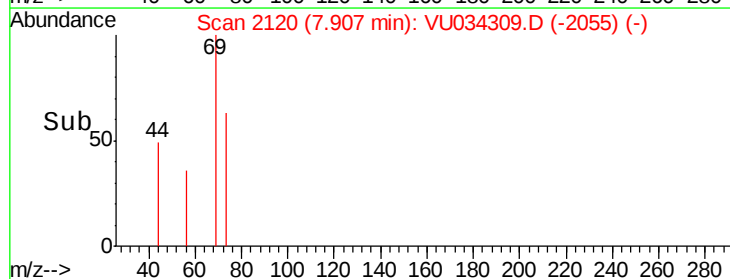
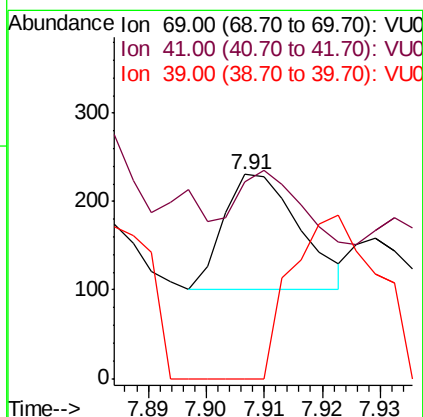
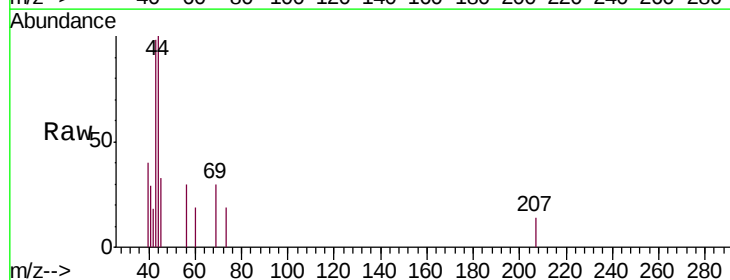
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-B2-(0)

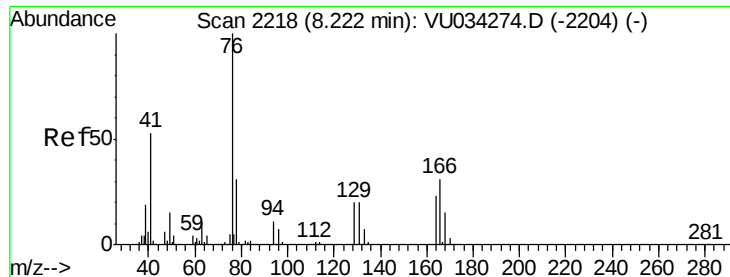
Tgt Ion: 75 Resp: 30321
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.1 37.7#
 39 26.6 31.2 46.8#



#56
 Ethyl methacrylate
 Concen: 3.088 ug/l
 RT: 7.91 min Scan# 2120
 Delta R.T. -0.09 min
 Lab File: VU034309.D
 Acq: 06 Sep 2019 01:14

Tgt Ion: 69 Resp: 119
 Ion Ratio Lower Upper
 69 100
 41 0.0 49.5 74.3#
 39 0.0 22.5 33.7#

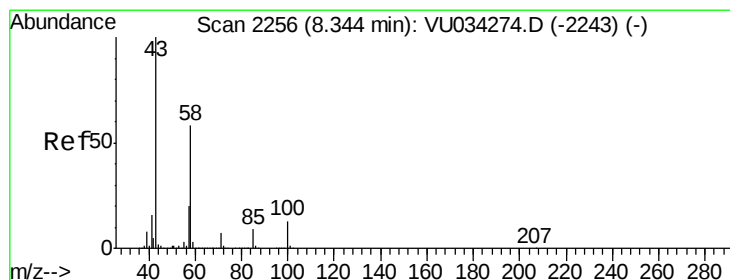
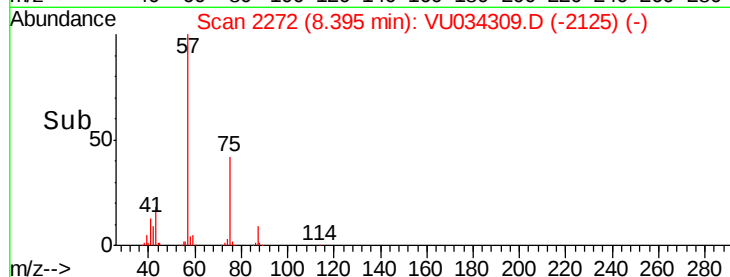
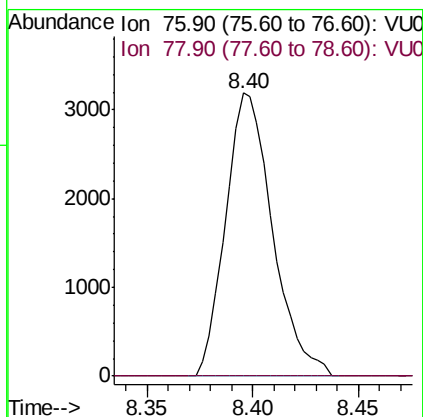
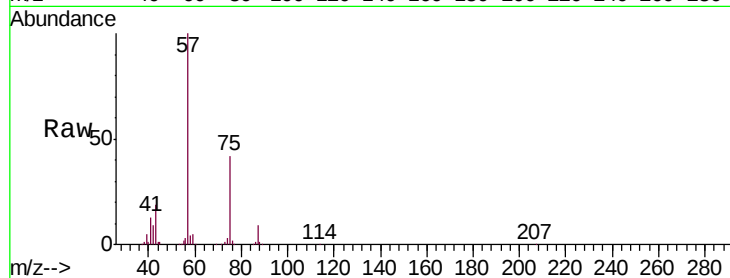




#57
 1,3-Dichloropropane
 Concen: 0.453 ug/l
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.17 min
 Lab File: VU034309.D
 Acq: 06 Sep 2019 01:14

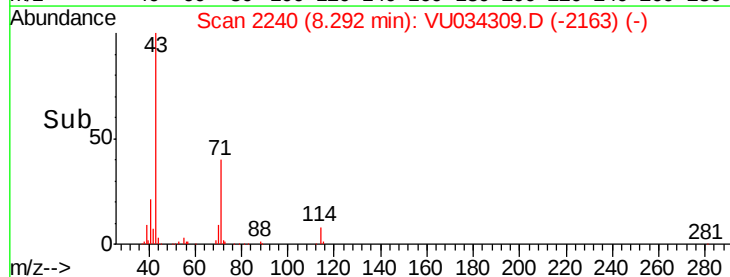
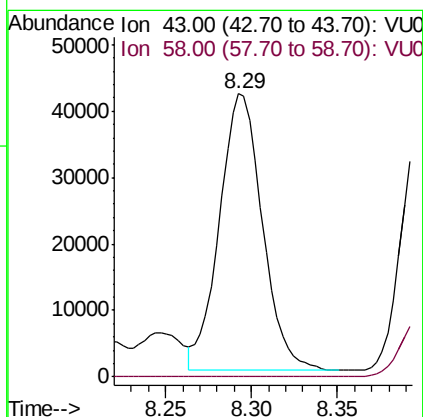
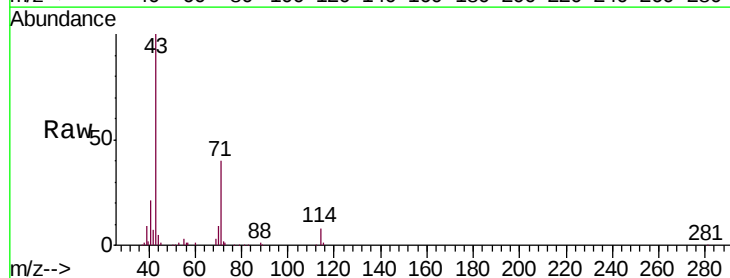
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-B2-(0)

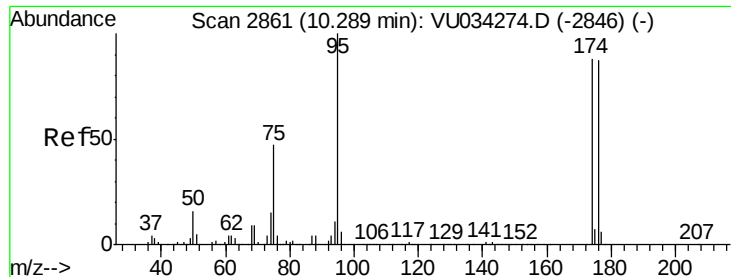
Tgt Ion: 76 Resp: 4919
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 10.469 ug/l
 RT: 8.29 min Scan# 2240
 Delta R.T. -0.05 min
 Lab File: VU034309.D
 Acq: 06 Sep 2019 01:14

Tgt Ion: 43 Resp: 72445
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.8 86.5#

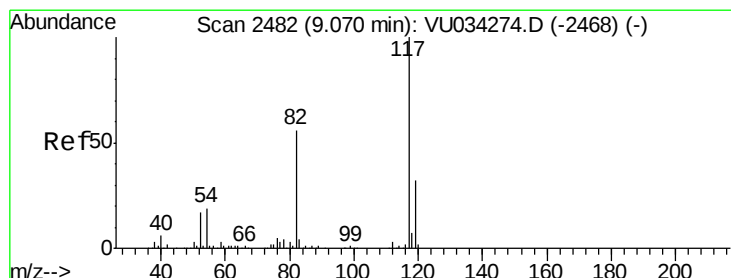
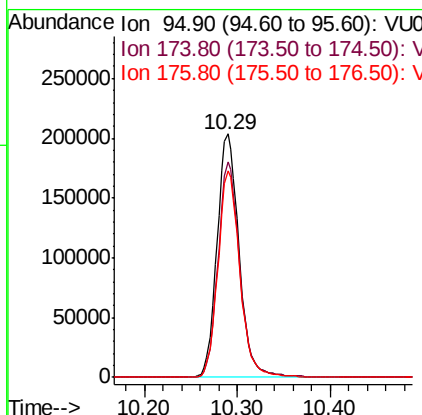
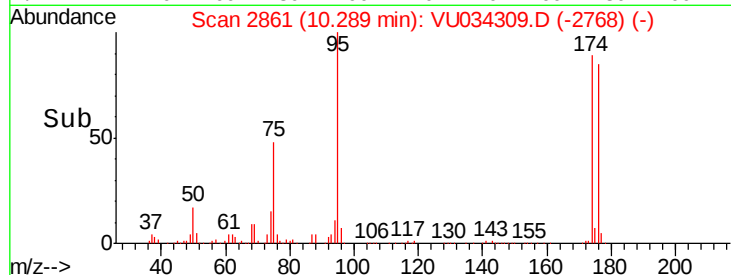
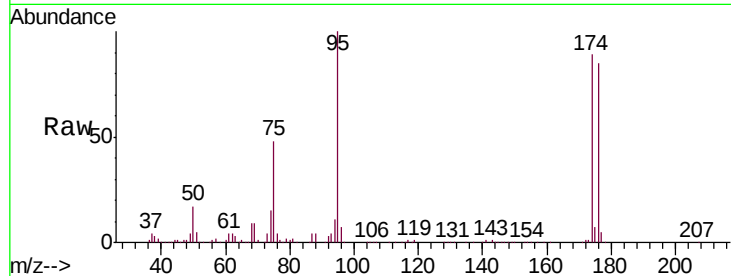




#62
4-Bromofluorobenzene
Concen: 37.198 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034309.D
Acq: 06 Sep 2019 01:14

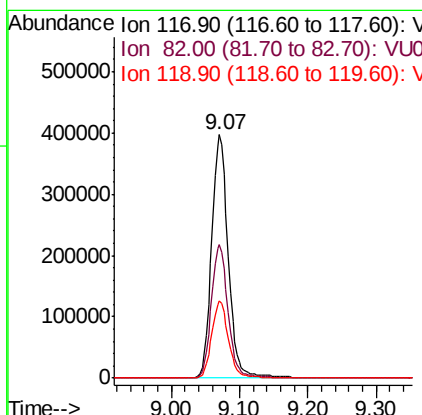
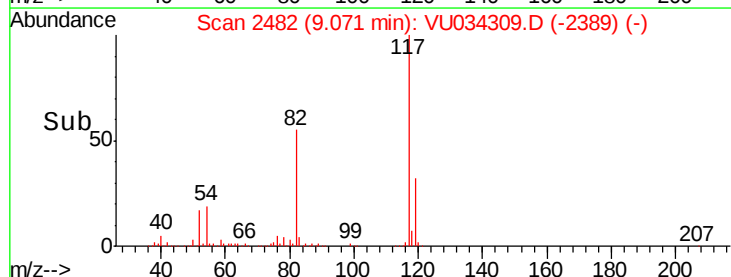
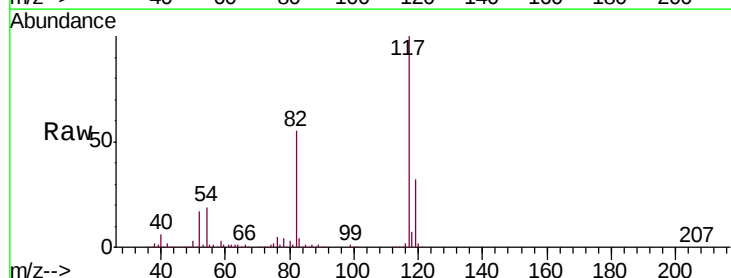
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B2-(0)

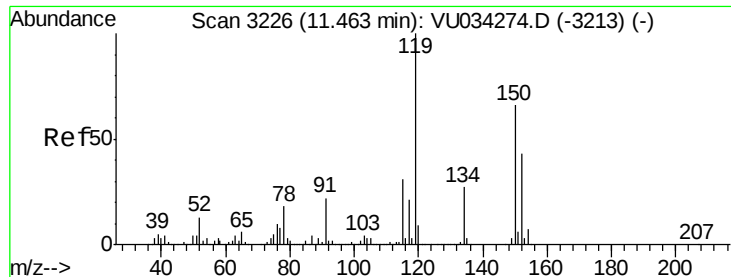
Tgt Ion: 95 Resp: 335907
Ion Ratio Lower Upper
95 100
174 87.8 0.0 175.2
176 84.2 0.0 168.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034309.D
Acq: 06 Sep 2019 01:14

Tgt Ion: 117 Resp: 670734
Ion Ratio Lower Upper
117 100
82 54.7 44.6 67.0
119 31.9 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: VU034309.D

Acq: 06 Sep 2019 01:14

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B2-(0)

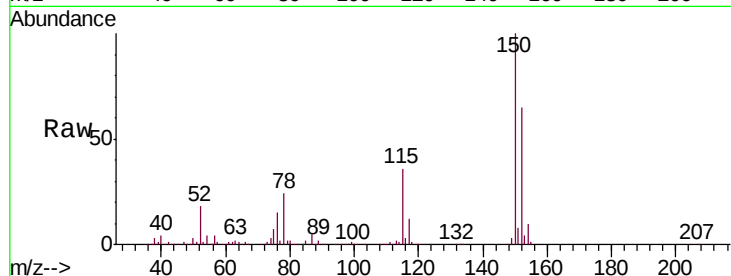
Tgt Ion:152 Resp: 332186

Ion Ratio Lower Upper

152 100

115 56.4 39.1 117.3

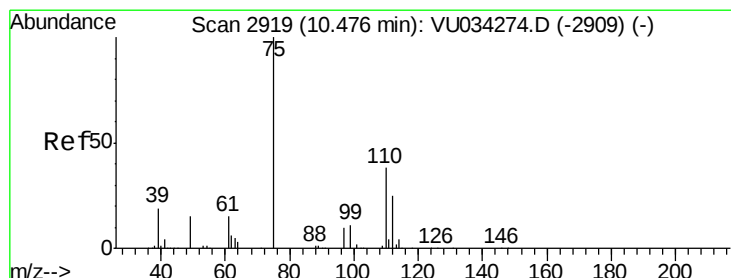
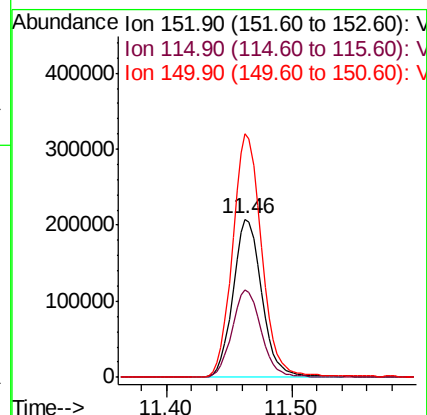
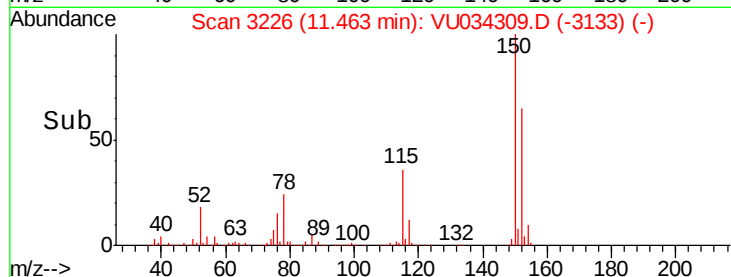
150 155.2 0.0 345.4



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: 21.874 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034309.D

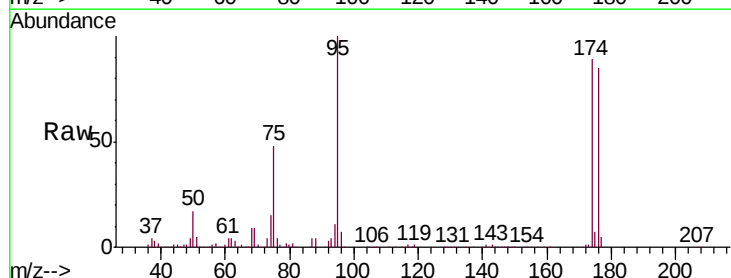
Acq: 06 Sep 2019 01:14

Tgt Ion: 75 Resp: 158610

Ion Ratio Lower Upper

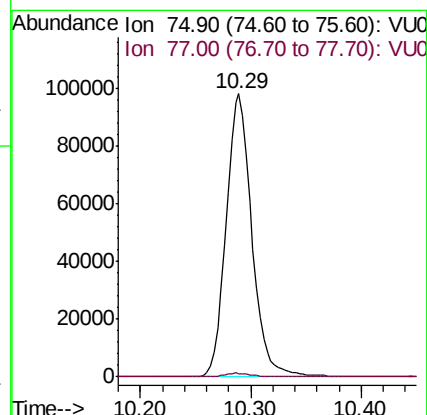
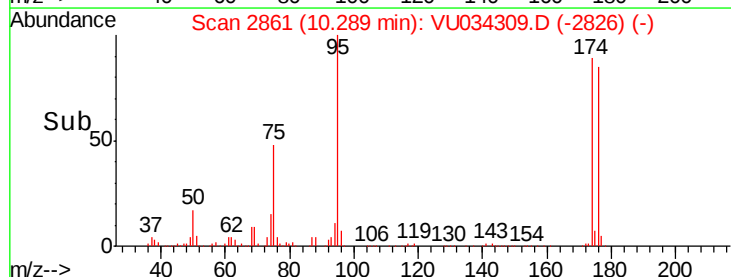
75 100

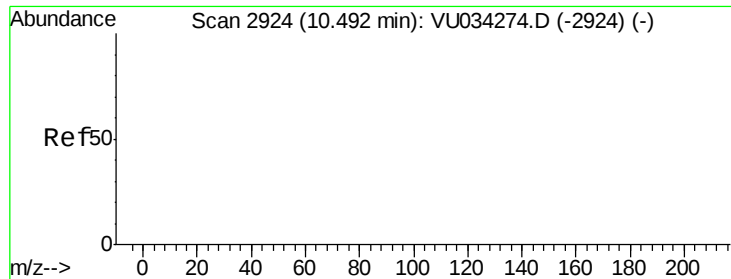
77 1.3 20.8 62.2#



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: 73.561 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034309.D

Acq: 06 Sep 2019 01:14

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B2-(0)

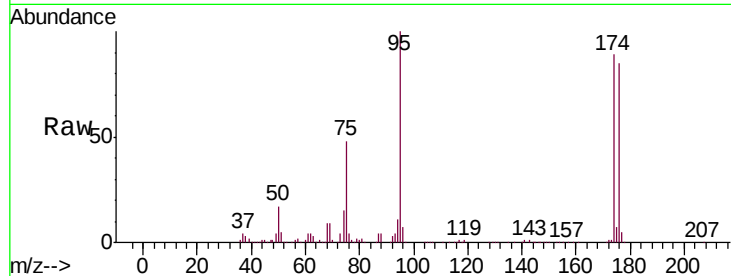
Tgt Ion: 75 Resp: 158610

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

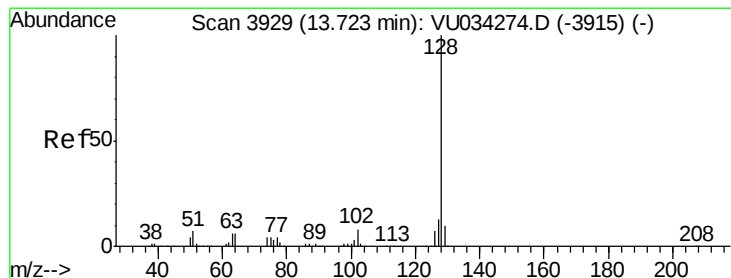
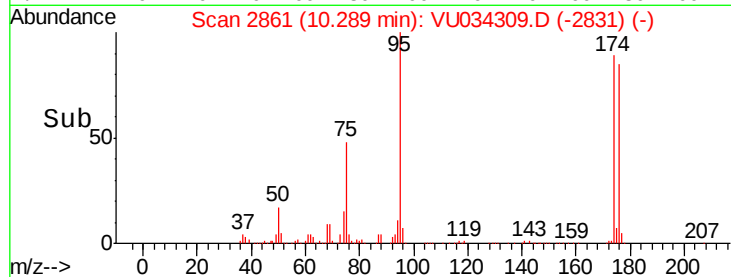
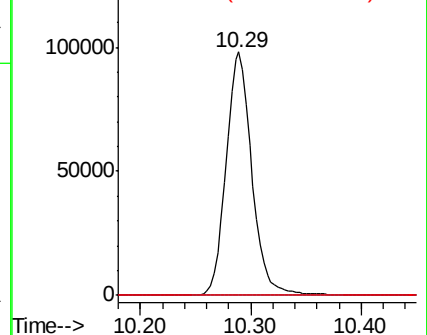
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU034274.D (-2924) (-)

Ion 53.00 (52.70 to 53.70): VU034274.D (-2924) (-)

Ion 88.90 (88.60 to 89.60): VU034274.D (-2924) (-)



#95

Naphthalene

Concen: 3.969 ug/l

RT: 13.84 min Scan# 3966

Delta R.T. 0.12 min

Lab File: VU034309.D

Acq: 06 Sep 2019 01:14

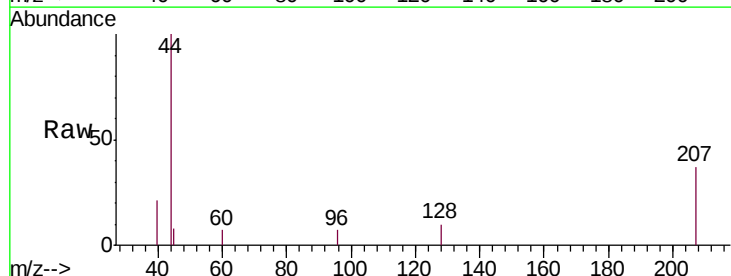
Tgt Ion: 128 Resp: 73

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): VU034274.D (-3915) (-)

Ion 127.00 (126.70 to 127.70): VU034274.D (-3915) (-)

Ion 129.00 (128.70 to 129.70): VU034274.D (-3915) (-)

