

Data File : VU034312.D
Acq On : 06 Sep 2019 02:24
Operator : JC/SP
Sample : K4579-30
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B1-(3.5)

Quant Time: Sep 06 07:47:15 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	432250	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	672808	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	677095	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	337116	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	277336	42.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.82%	
35) Dibromofluoromethane	4.86	113	238057	38.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.06%	
50) Toluene-d8	7.55	98	950705	40.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.84%	
62) 4-Bromofluorobenzene	10.29	95	331249	36.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.96%	

Target Compounds			Qvalue			
3) Chloromethane	1.32	50	332	Below Cal	#	73
5) Bromomethane	1.61	94	90	Below Cal	#	2
6) Chloroethane	1.70	64	86	Below Cal	#	43
8) Diethyl Ether	2.09	74	1884	0.567	ug/l	86
10) Methyl Iodide	2.40	142	39	3.854	ug/l #	43
16) Acetone	2.31	43	11527	3.406	ug/l	91
18) Methyl Acetate	2.62	43	2714	0.330	ug/l #	89
20) Methylene Chloride	2.69	84	13422	2.038	ug/l	88
31) Cyclohexane	4.96	56	6828	0.891	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	29077	3.985	ug/l #	48
38) Carbon Tetrachloride	4.96	117	39310	5.046	ug/l #	15
43) Isopropyl Acetate	5.53	43	68774	5.110	ug/l	99
48) Methyl methacrylate	6.53	41	3964	0.620	ug/l #	13
49) 1,4-Dioxane	6.68	88	123	0.881	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	64278	6.900	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	32309	3.193	ug/l #	65
56) Ethyl methacrylate	8.13	69	1719	3.235	ug/l #	1
57) 1,3-Dichloropropane	8.40	76	4876	0.446	ug/l #	43
59) 2-Hexanone	8.29	43	73750	10.597	ug/l #	22
76) 1,2,3-Trichloropropane	10.29	75	154437	20.987	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	154437	70.578	ug/l #	100

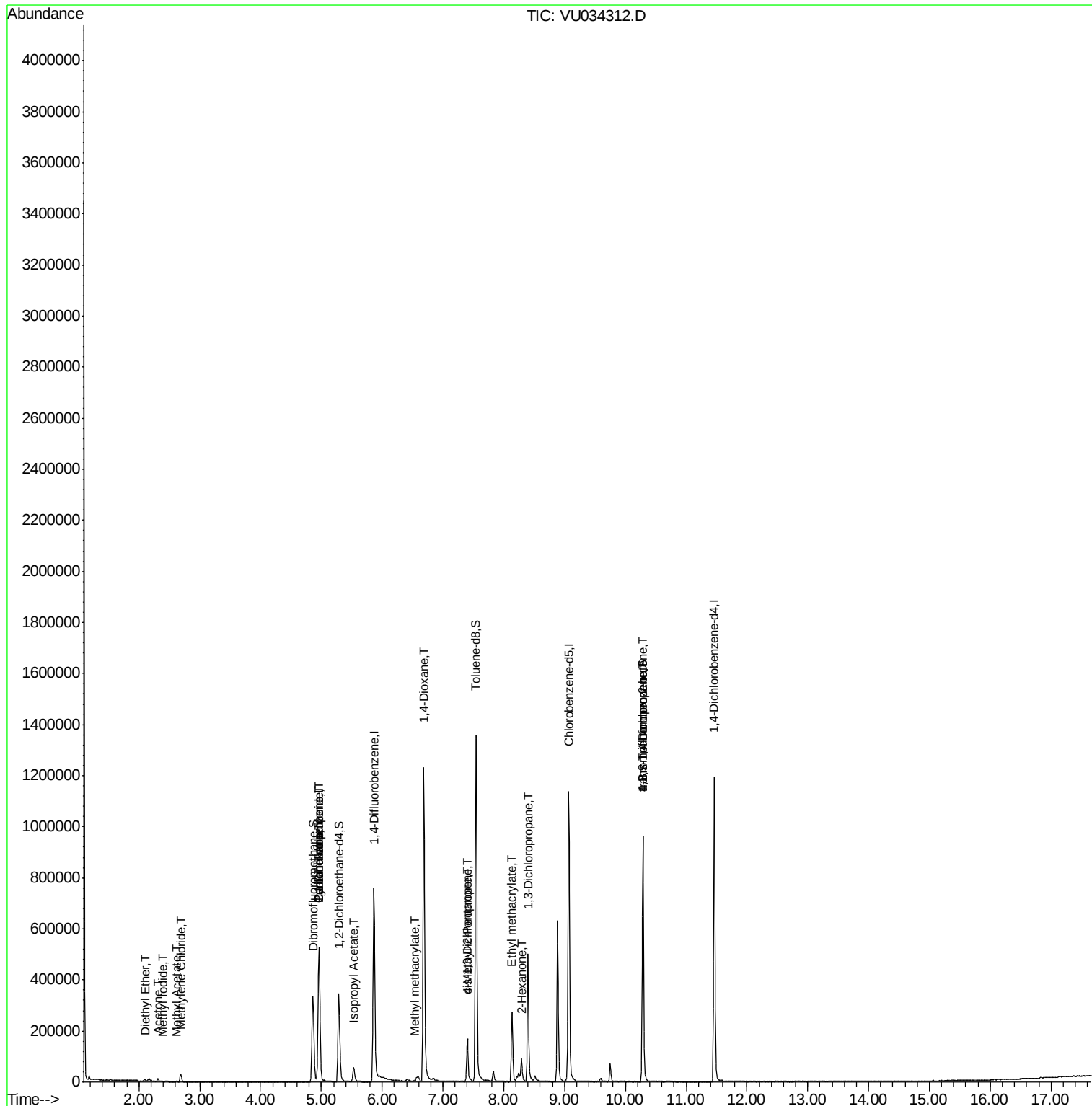
(#) = qualifier out of range (m) = manual integration (+) = signals summed

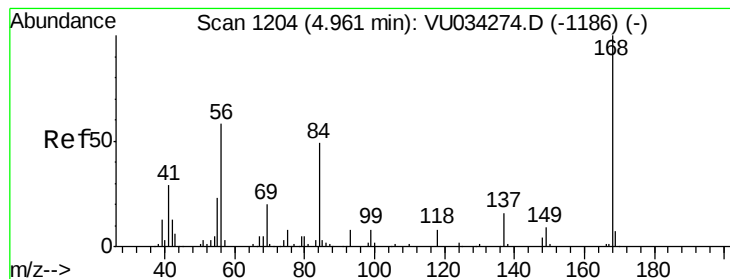
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034312.D

Acq: 06 Sep 2019 02:24

Instrument :

MSVOA_U

ClientSampleId :

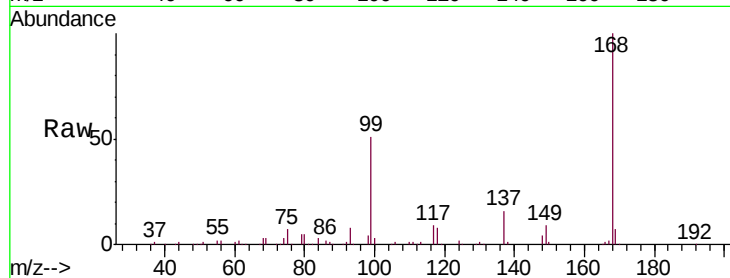
PAR-12-B1-(3.5)

Tgt Ion:168 Resp: 432250

Ion Ratio Lower Upper

168 100

99 51.2 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

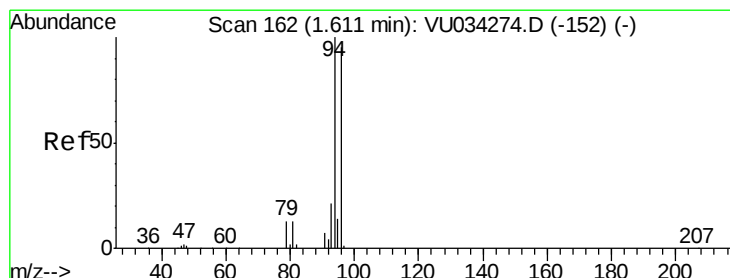
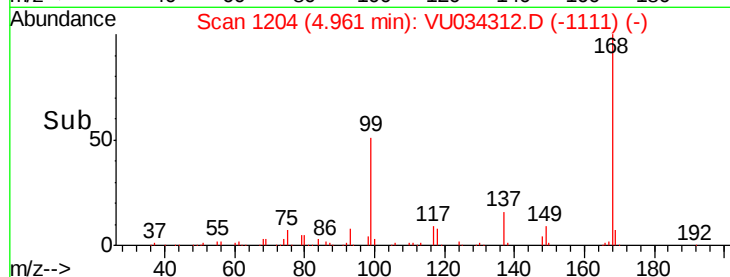
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 162

Delta R.T. 0.00 min

Lab File: VU034312.D

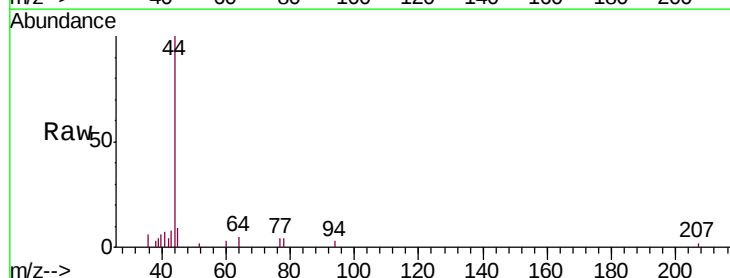
Acq: 06 Sep 2019 02:24

Tgt Ion: 94 Resp: 90

Ion Ratio Lower Upper

94 100

96 0.0 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) (-)

1.61

250

200

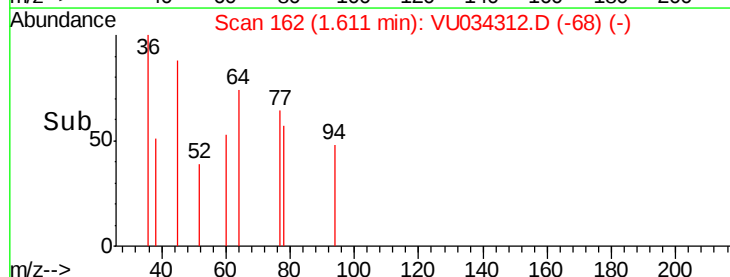
150

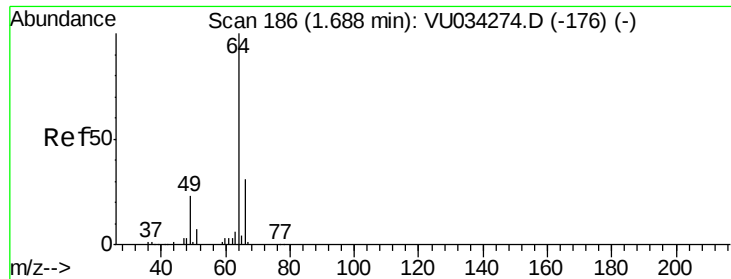
100

50

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 190

Delta R.T. 0.01 min

Lab File: VU034312.D

Acq: 06 Sep 2019 02:24

Instrument :

MSVOA_U

ClientSampleId :

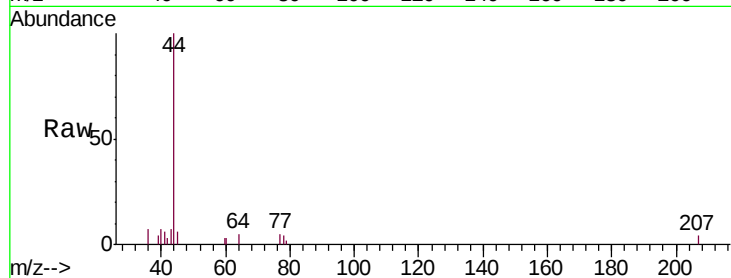
PAR-12-B1-(3.5)

Tgt Ion: 64 Resp: 86

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#

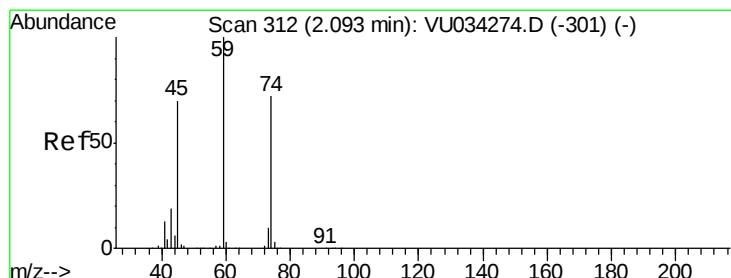
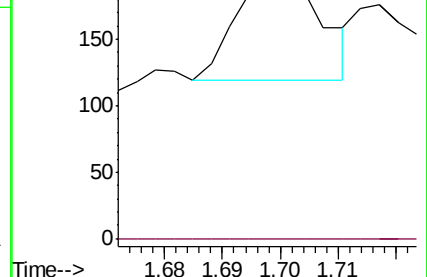
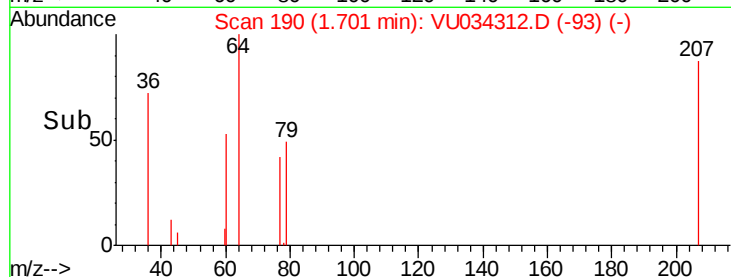


Abundance Ion 63.90 (63.60 to 64.60): VU034312.D (-176) (-)

Ion 65.90 (65.60 to 66.60): VU034312.D (-176) (-)

1.70

1.71



#8

Diethyl Ether

Concen: 0.567 ug/l

RT: 2.09 min Scan# 312

Delta R.T. 0.00 min

Lab File: VU034312.D

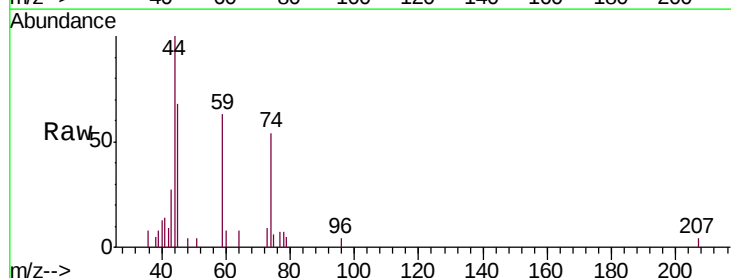
Acq: 06 Sep 2019 02:24

Tgt Ion: 74 Resp: 1884

Ion Ratio Lower Upper

74 100

45 109.9 48.2 144.6

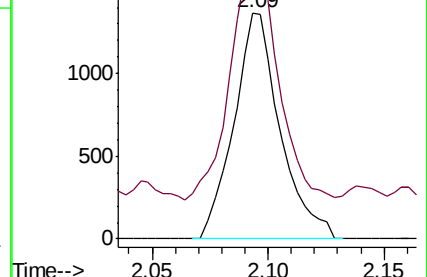
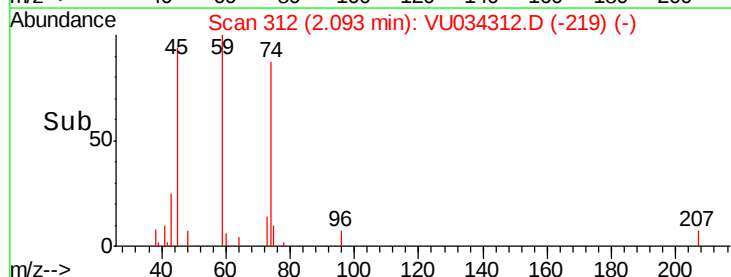


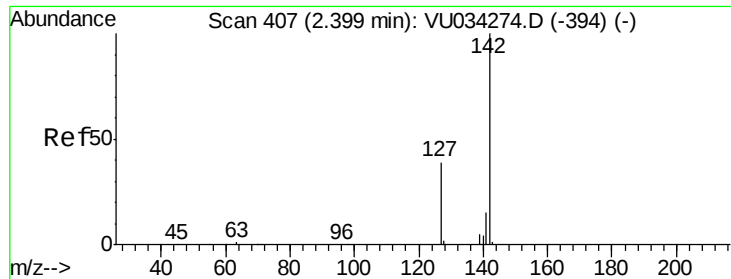
Abundance Ion 74.00 (73.70 to 74.70): VU034312.D (-301) (-)

Ion 45.00 (44.70 to 45.70): VU034312.D (-301) (-)

2.09

2.15

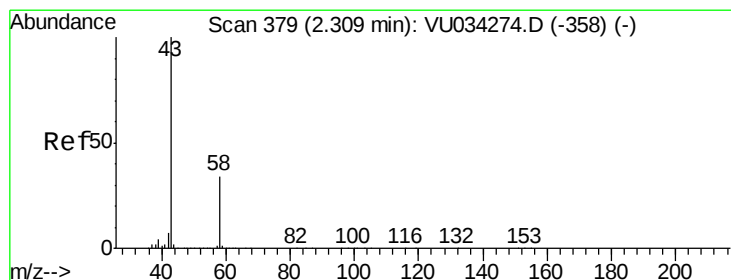
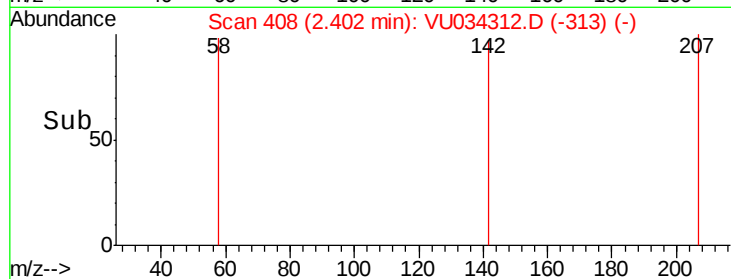
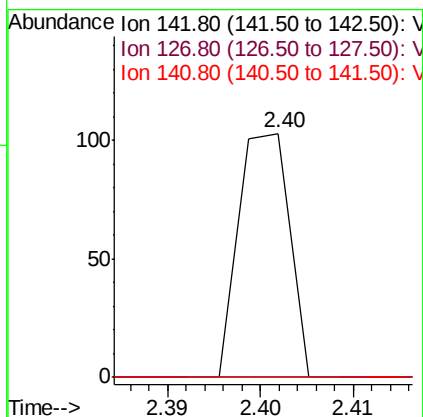
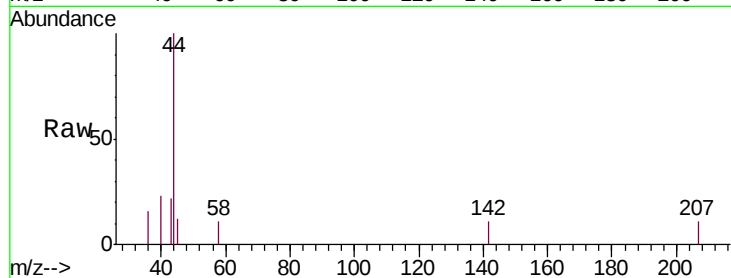




#10
Methyl Iodide
Concen: 3.854 ug/l
RT: 2.40 min Scan# 408
Delta R.T. 0.00 min
Lab File: VU034312.D
Acq: 06 Sep 2019 02:24

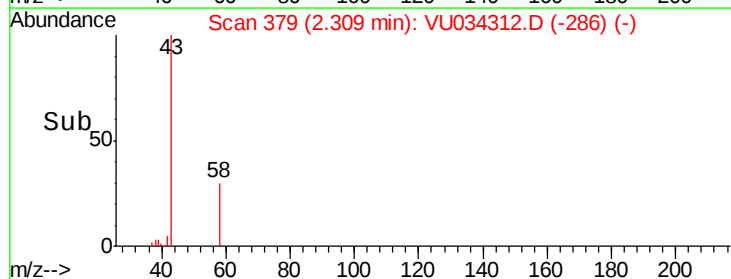
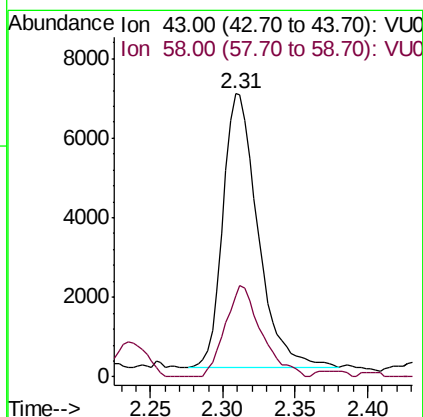
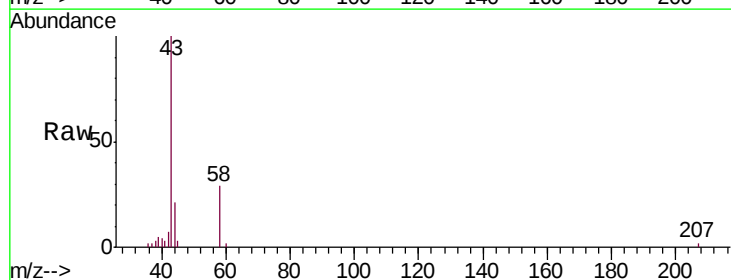
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B1-(3.5)

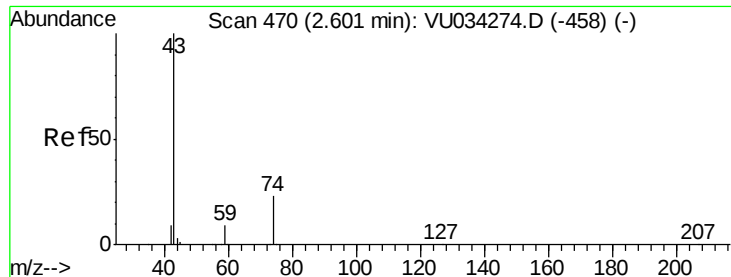
Tgt Ion: 142 Resp: 39
Ion Ratio Lower Upper
142 100
127 0.0 32.1 48.1#
141 0.0 11.5 17.3#



#16
Acetone
Concen: 3.406 ug/l
RT: 2.31 min Scan# 379
Delta R.T. 0.00 min
Lab File: VU034312.D
Acq: 06 Sep 2019 02:24

Tgt Ion: 43 Resp: 11527
Ion Ratio Lower Upper
43 100
58 29.5 27.6 41.4

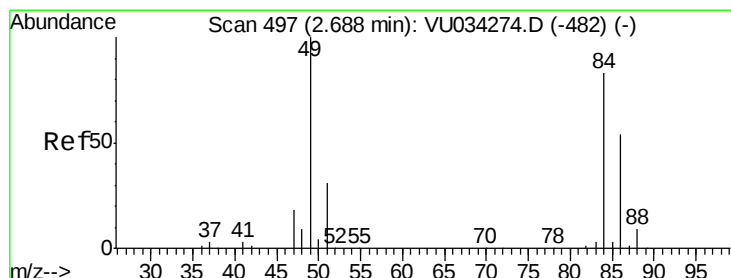
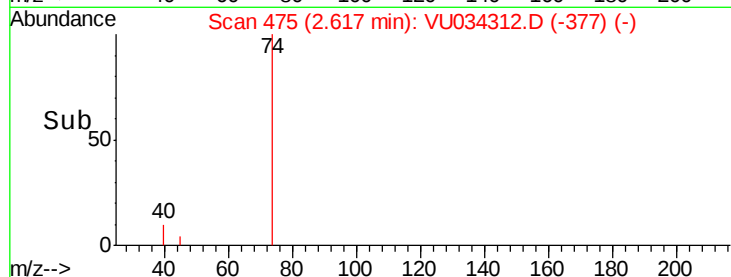
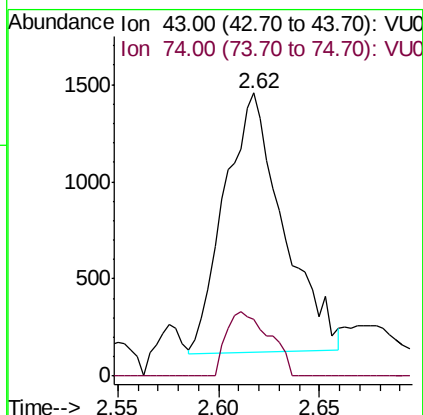
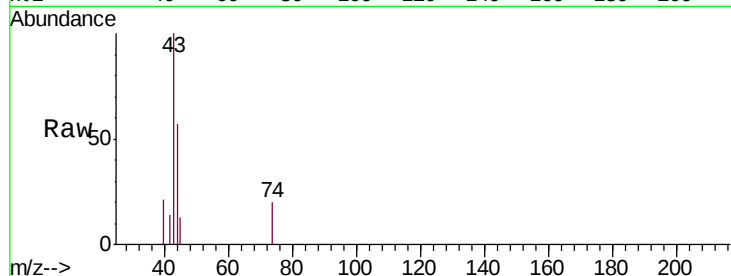




#18
Methyl Acetate
Concen: 0.330 ug/l
RT: 2.62 min Scan# 475
Delta R.T. 0.02 min
Lab File: VU034312.D
Acq: 06 Sep 2019 02:24

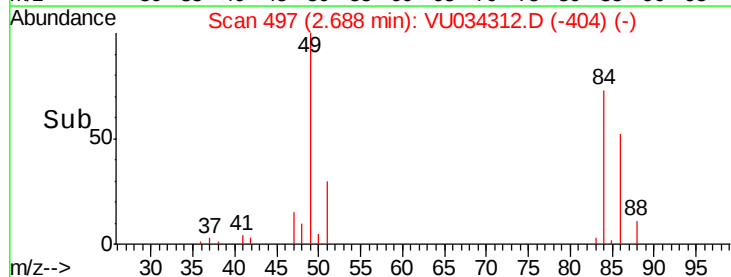
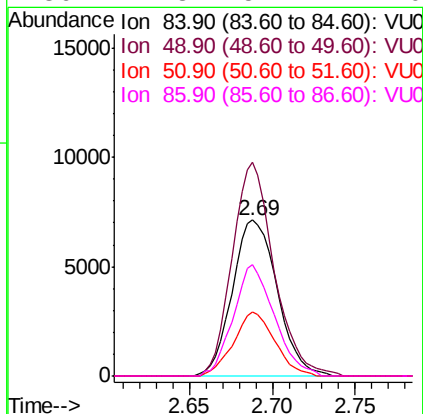
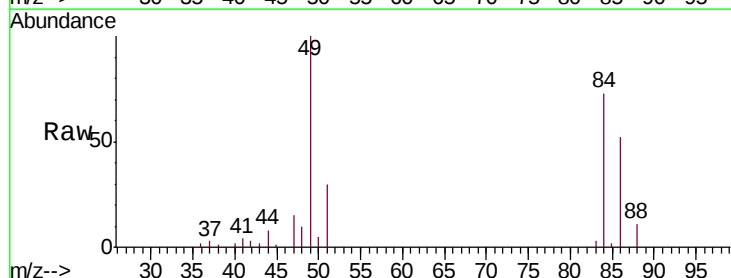
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B1-(3.5)

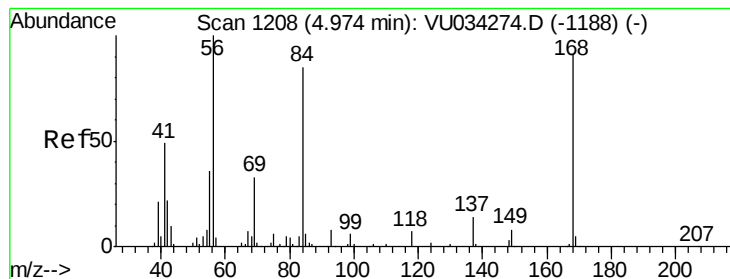
Tgt Ion: 43 Resp: 2714
Ion Ratio Lower Upper
43 100
74 18.3 18.9 28.3#



#20
Methylene Chloride
Concen: 2.038 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034312.D
Acq: 06 Sep 2019 02:24

Tgt Ion: 84 Resp: 13422
Ion Ratio Lower Upper
84 100
49 136.8 96.0 144.0
51 40.9 30.0 45.0
86 71.3 51.4 77.0





#31

Cyclohexane

Concen: 0.891 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034312.D

Acq: 06 Sep 2019 02:24

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B1-(3.5)

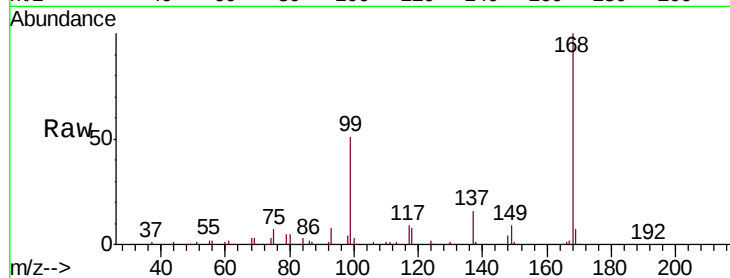
Tgt Ion: 56 Resp: 6828

Ion Ratio Lower Upper

56 100

69 213.7 26.7 40.1#

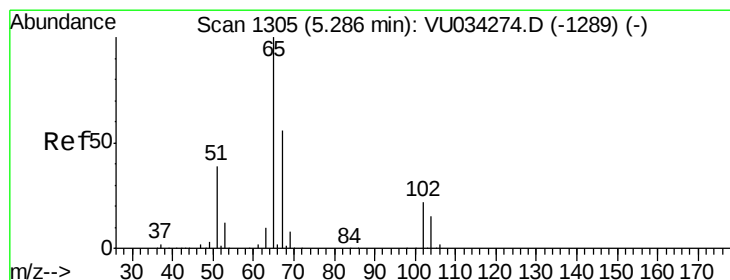
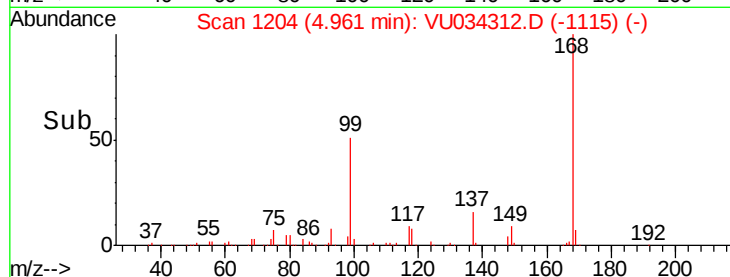
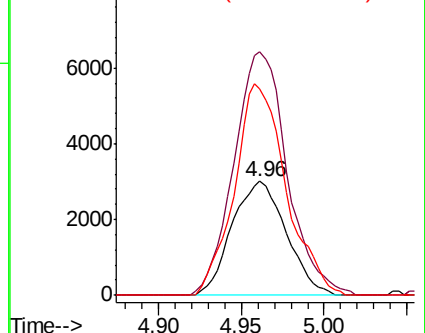
84 180.9 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU034312.D (-1188) (-)

Ion 69.00 (68.70 to 69.70): VU034312.D (-1188) (-)

Ion 84.00 (83.70 to 84.70): VU034312.D (-1188) (-)



#33

1,2-Dichloroethane-d4

Concen: 42.406 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034312.D

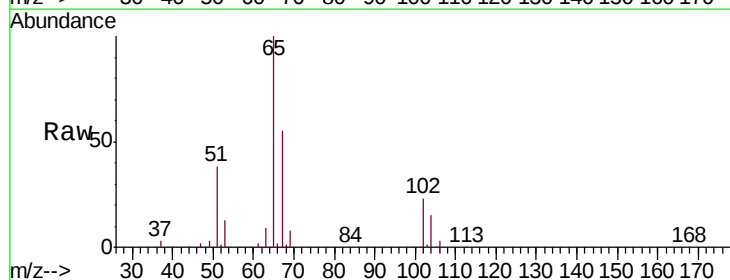
Acq: 06 Sep 2019 02:24

Tgt Ion: 65 Resp: 277336

Ion Ratio Lower Upper

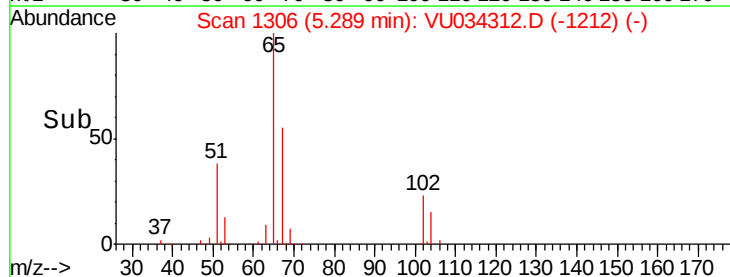
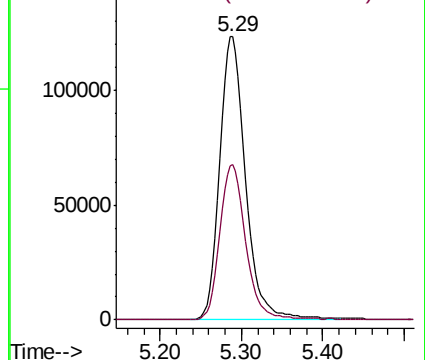
65 100

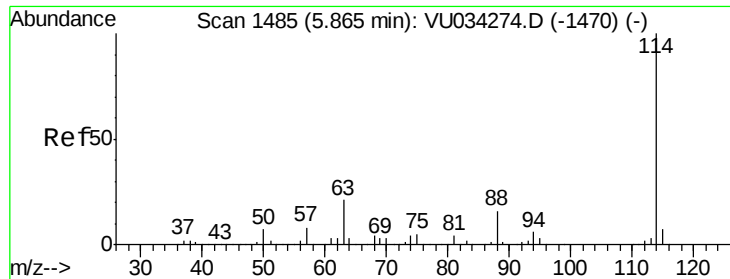
67 55.1 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU034312.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034312.D (-1212) (-)

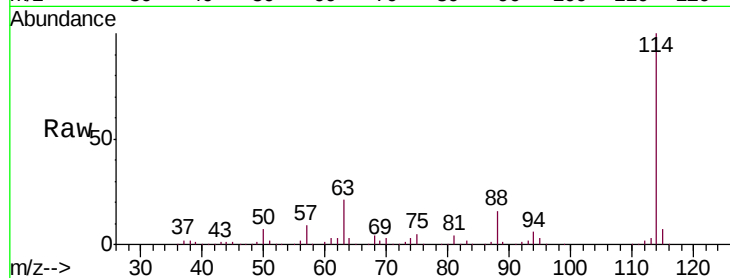




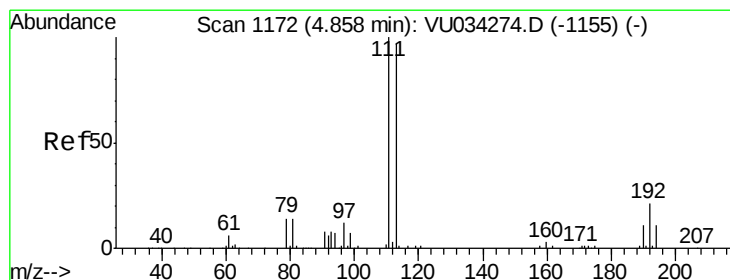
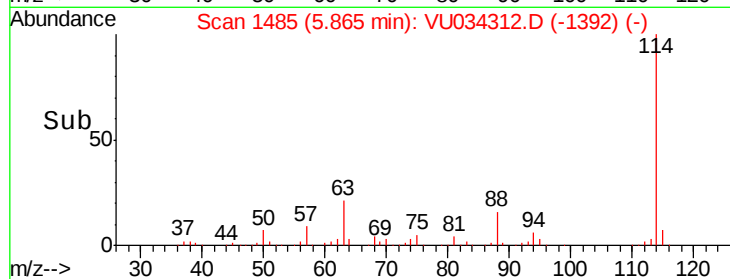
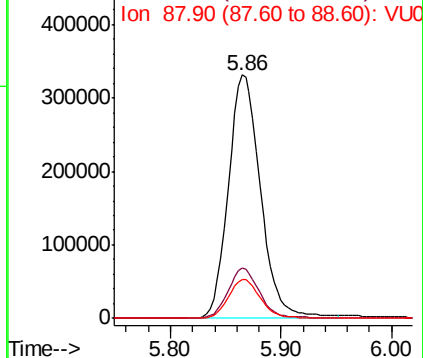
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034312.D
 Acq: 06 Sep 2019 02:24

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Tgt Ion:114 Resp: 672808
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 42.4
 88 15.9 0.0 32.4

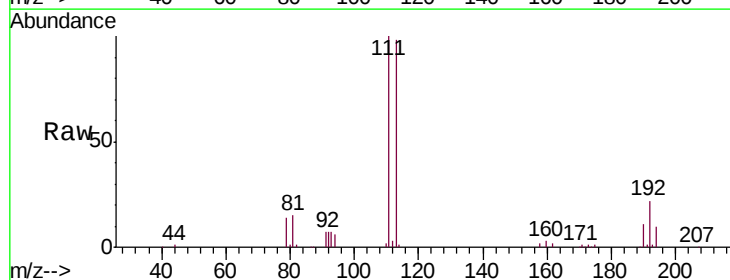


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

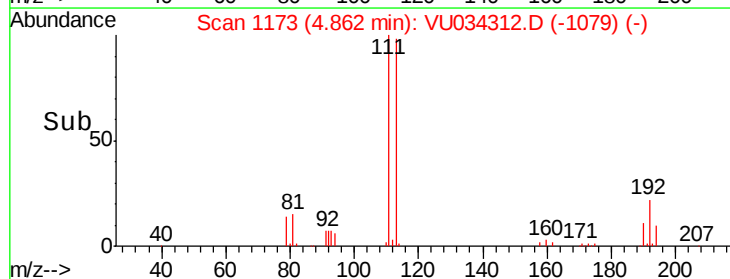
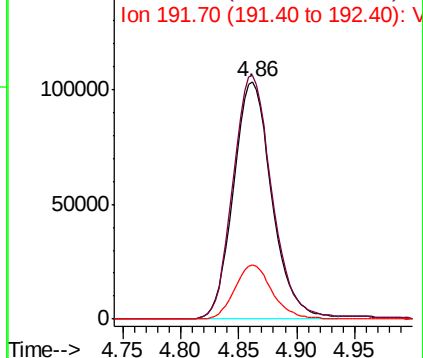


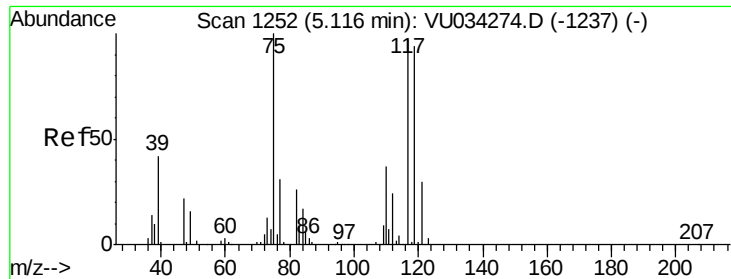
#35
 Dibromofluoromethane
 Concen: 38.025 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034312.D
 Acq: 06 Sep 2019 02:24

Tgt Ion:113 Resp: 238057
 Ion Ratio Lower Upper
 113 100
 111 104.4 81.5 122.3
 192 22.3 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: 3.985 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034312.D

Acq: 06 Sep 2019 02:24

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B1-(3.5)

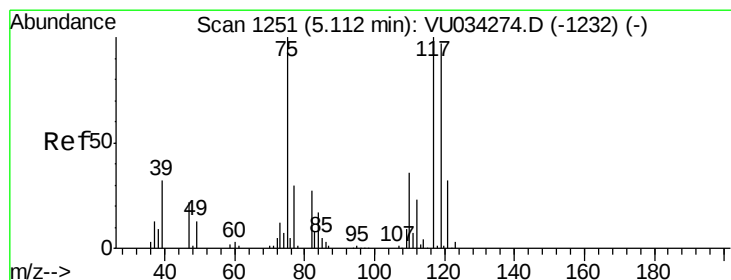
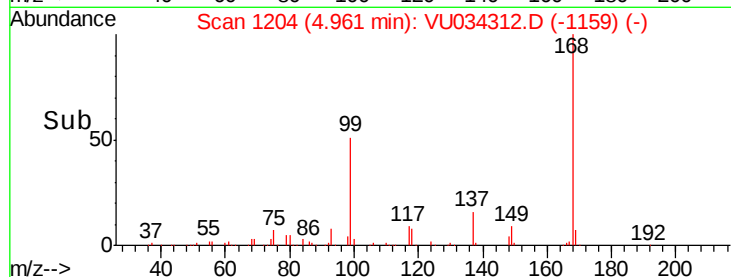
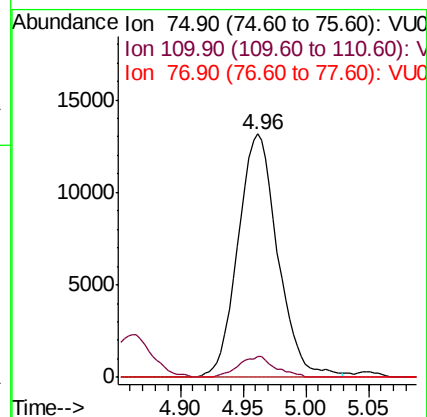
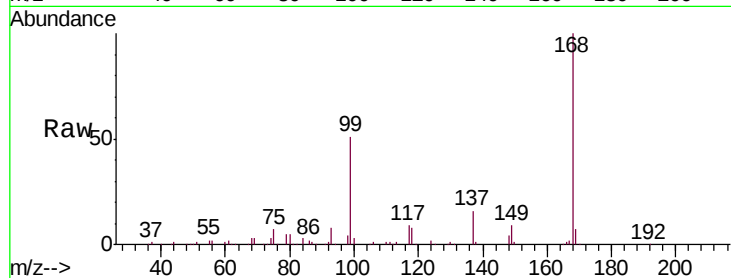
Tgt Ion: 75 Resp: 29077

Ion Ratio Lower Upper

75 100

110 8.0 18.3 54.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.046 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034312.D

Acq: 06 Sep 2019 02:24

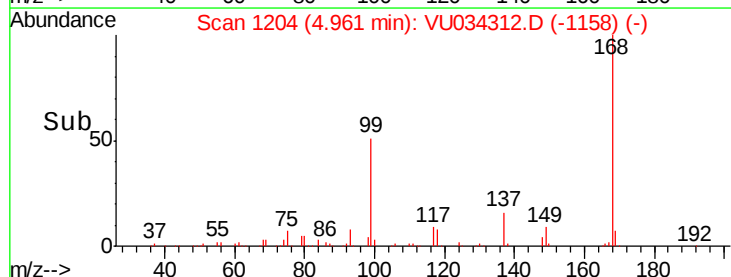
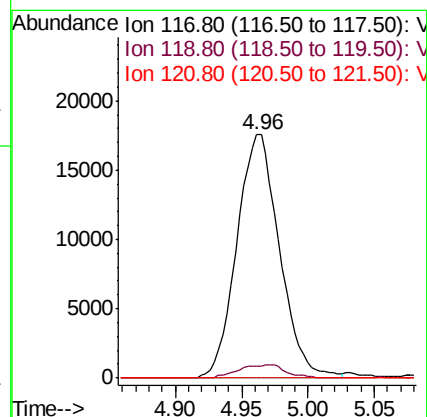
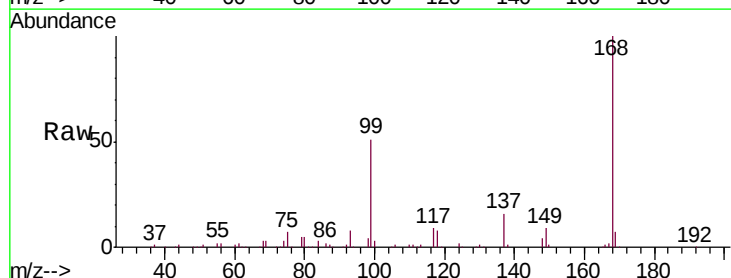
Tgt Ion: 117 Resp: 39310

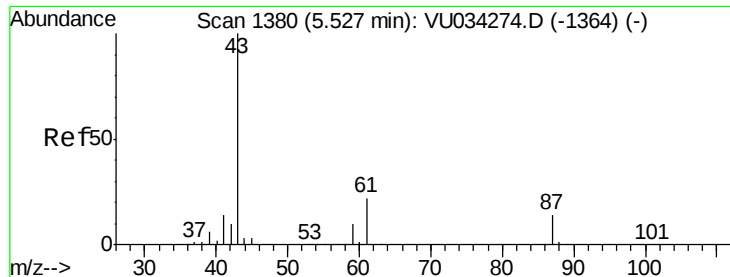
Ion Ratio Lower Upper

117 100

119 4.8 77.8 116.6#

121 0.0 25.2 37.8#





#43

Isopropyl Acetate

Concen: 5.110 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034312.D

Acq: 06 Sep 2019 02:24

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B1-(3.5)

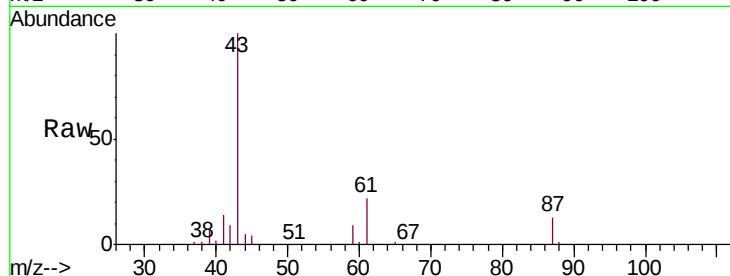
Tgt Ion: 43 Resp: 68774

Ion Ratio Lower Upper

43 100

61 21.1 17.1 25.7

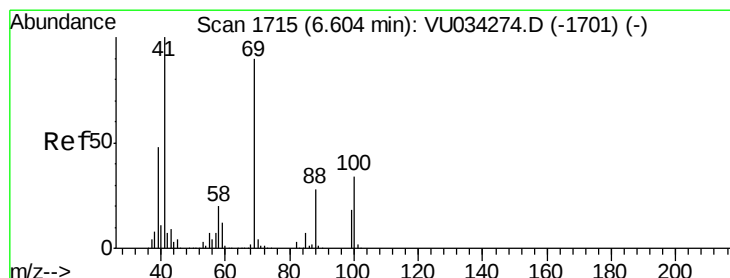
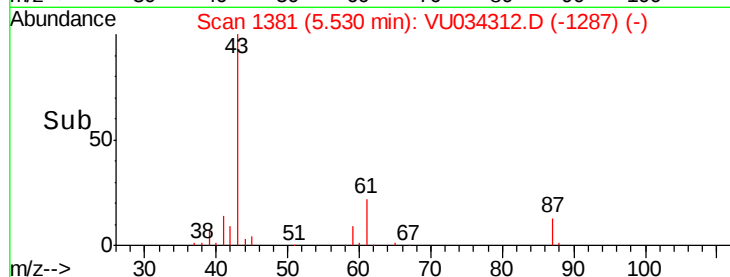
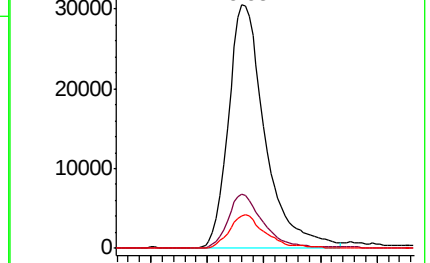
87 13.5 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VU034312.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034312.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034312.D (-1287) (-)



#48

Methyl methacrylate

Concen: 0.620 ug/l

RT: 6.53 min Scan# 1691

Delta R.T. -0.08 min

Lab File: VU034312.D

Acq: 06 Sep 2019 02:24

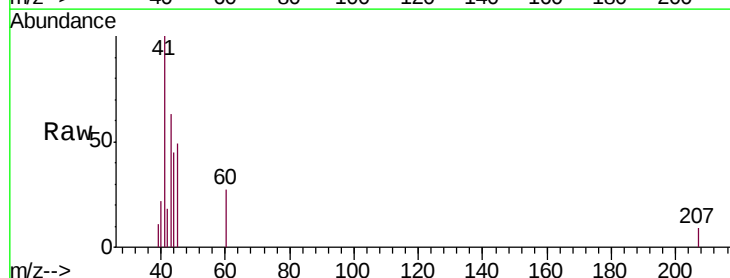
Tgt Ion: 41 Resp: 3964

Ion Ratio Lower Upper

41 100

69 0.0 72.8 109.2#

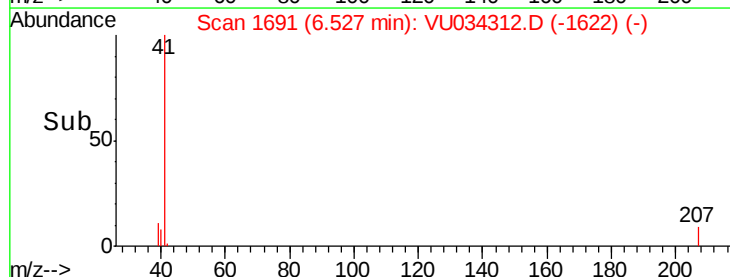
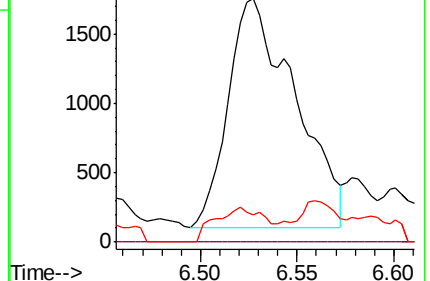
39 0.0 38.6 58.0#

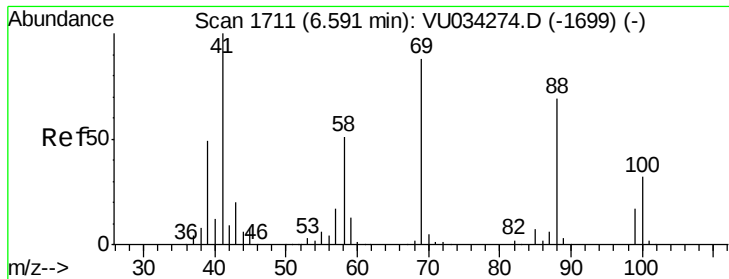


Abundance Ion 41.00 (40.70 to 41.70): VU034312.D (-1622) (-)

Ion 69.00 (68.70 to 69.70): VU034312.D (-1622) (-)

Ion 39.00 (38.70 to 39.70): VU034312.D (-1622) (-)

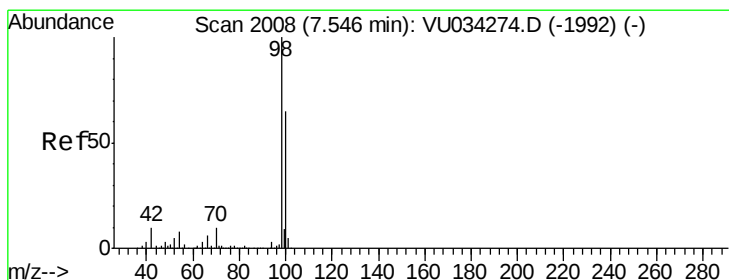
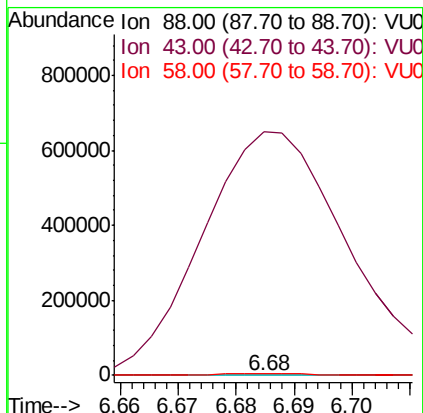
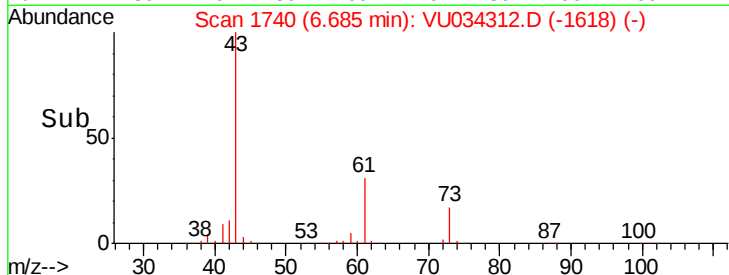
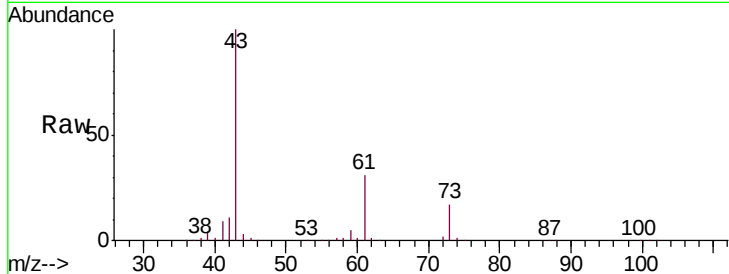




#49
1,4-Dioxane
Concen: 0.881 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.09 min
Lab File: VU034312.D
Acq: 06 Sep 2019 02:24

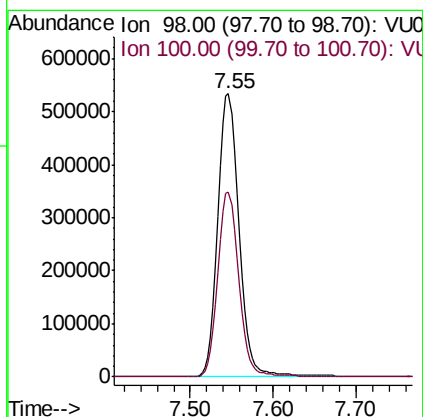
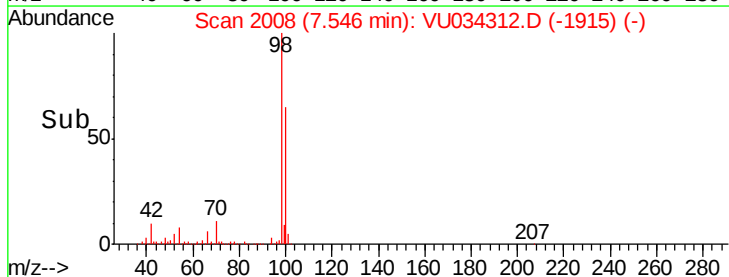
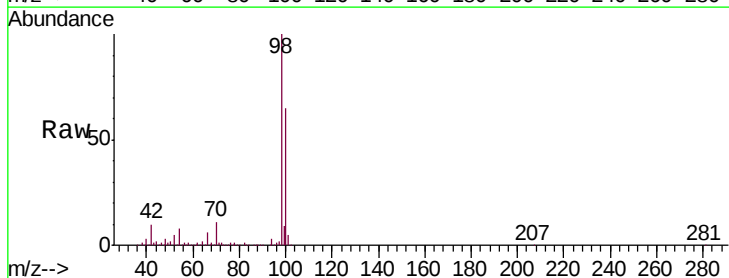
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B1-(3.5)

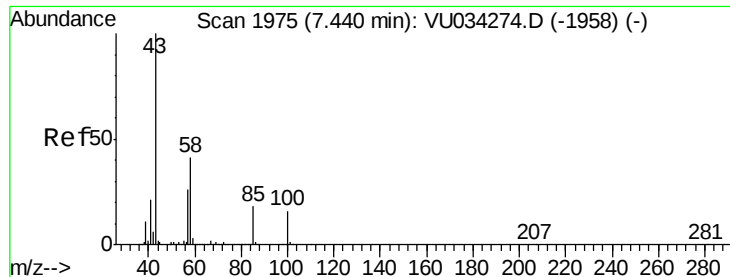
Tgt Ion: 88 Resp: 123
Ion Ratio Lower Upper
88 100
43 974666.7 23.8 35.6#
58 5341.5 58.4 87.6#



#50
Toluene-d8
Concen: 40.420 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034312.D
Acq: 06 Sep 2019 02:24

Tgt Ion: 98 Resp: 950705
Ion Ratio Lower Upper
98 100
100 65.0 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 6.900 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034312.D

Acq: 06 Sep 2019 02:24

Instrument :

MSVOA_U

ClientSampleId :

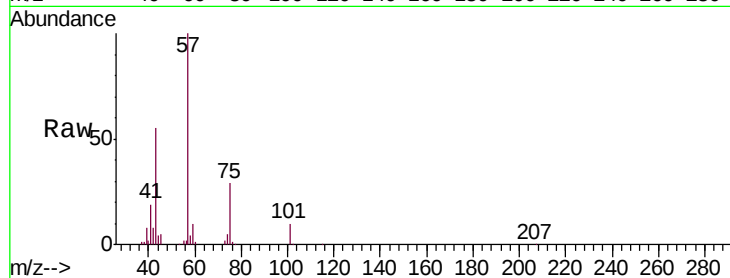
PAR-12-B1-(3.5)

Tgt Ion: 43 Resp: 64278

Ion Ratio Lower Upper

43 100

58 6.8 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034274.D (-1958) (-)

Ion 58.00 (57.70 to 58.70): VU034274.D (-1958) (-)

7.40

40000

30000

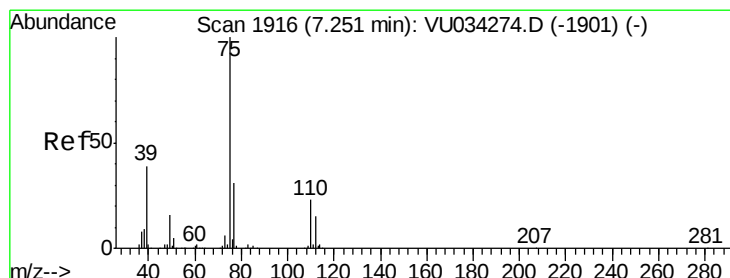
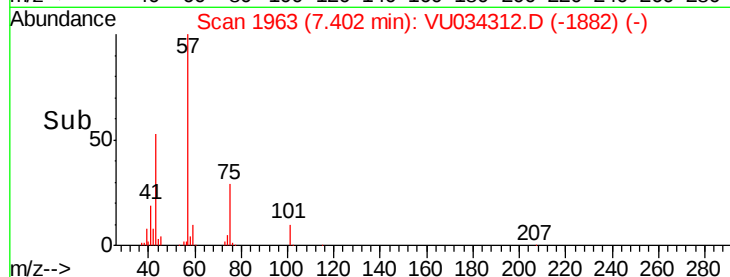
20000

10000

0

7.30 7.40 7.50

Time-->



#54

cis-1,3-Dichloropropene

Concen: 3.193 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034312.D

Acq: 06 Sep 2019 02:24

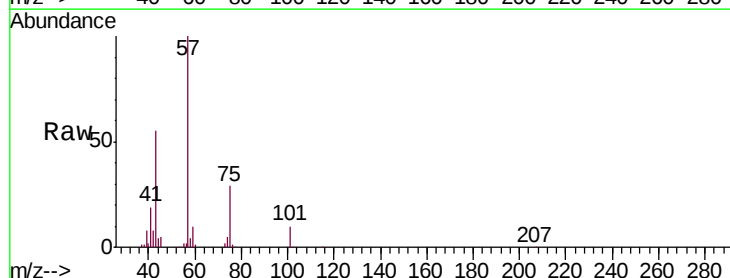
Tgt Ion: 75 Resp: 32309

Ion Ratio Lower Upper

75 100

77 0.6 25.1 37.7#

39 27.6 31.2 46.8#



Abundance Ion 74.90 (74.60 to 75.60): VU034274.D (-1901) (-)

Ion 76.90 (76.60 to 77.60): VU034274.D (-1901) (-)

Ion 39.00 (38.70 to 39.70): VU034274.D (-1901) (-)

7.40

25000

20000

15000

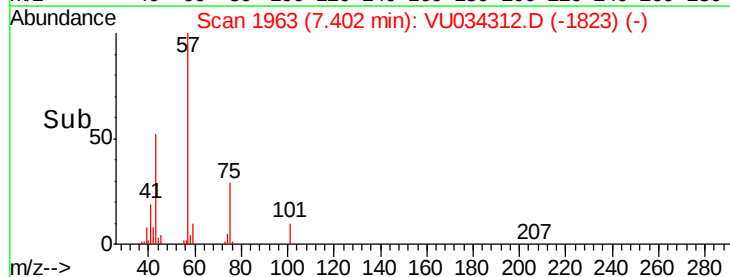
10000

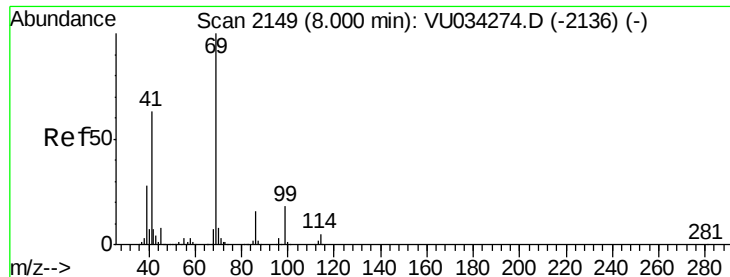
5000

0

7.30 7.35 7.40 7.45 7.50

Time-->





#56

Ethyl methacrylate

Concen: 3.235 ug/l

RT: 8.13 min Scan# 2190

Delta R.T. 0.13 min

Lab File: VU034312.D

Acq: 06 Sep 2019 02:24

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B1-(3.5)

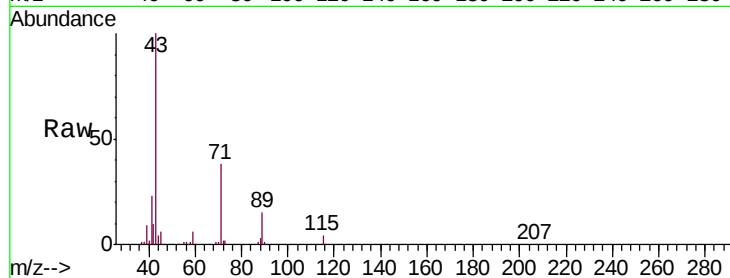
Tgt Ion: 69 Resp: 1719

Ion Ratio Lower Upper

69 100

41 2746.9 49.5 74.3#

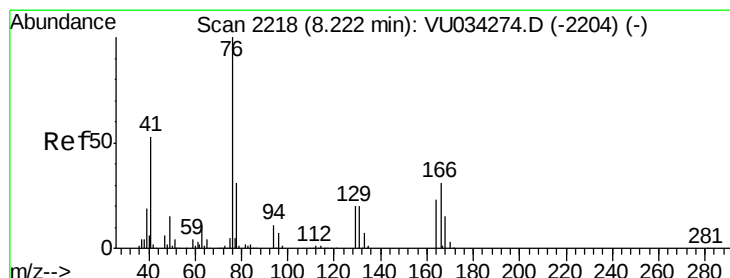
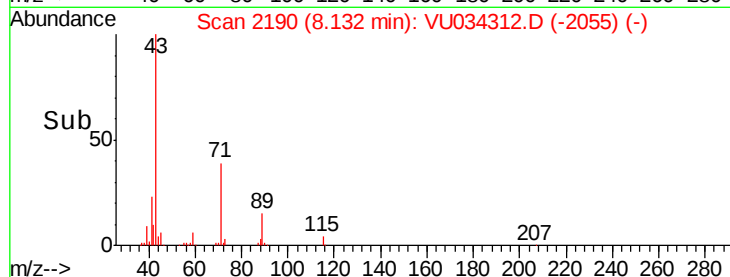
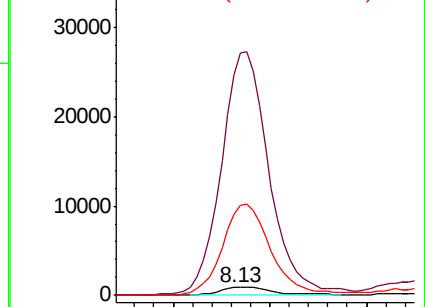
39 1040.4 22.5 33.7#



Abundance Ion 69.00 (68.70 to 69.70): VU034312.D (-2055) (-)

Ion 41.00 (40.70 to 41.70): VU034312.D (-2055) (-)

Ion 39.00 (38.70 to 39.70): VU034312.D (-2055) (-)



#57

1,3-Dichloropropane

Concen: 0.446 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034312.D

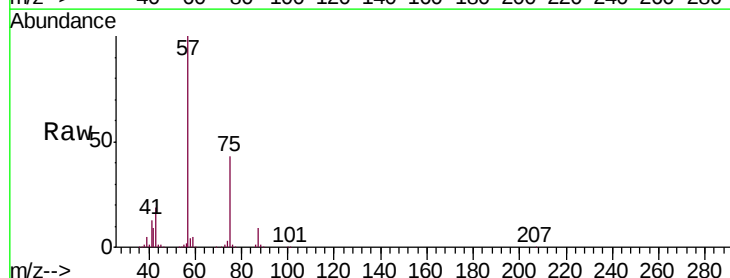
Acq: 06 Sep 2019 02:24

Tgt Ion: 76 Resp: 4876

Ion Ratio Lower Upper

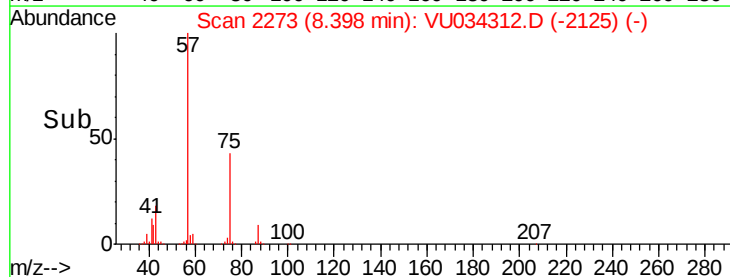
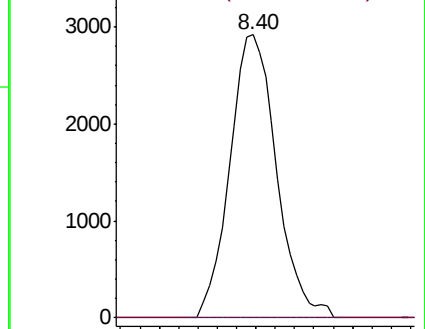
76 100

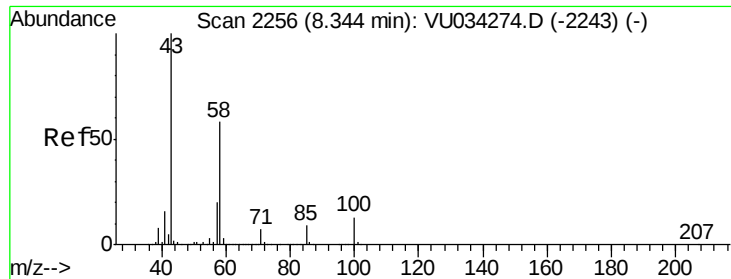
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VU034312.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034312.D (-2125) (-)

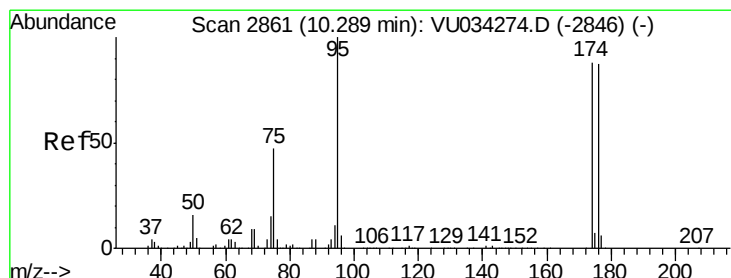
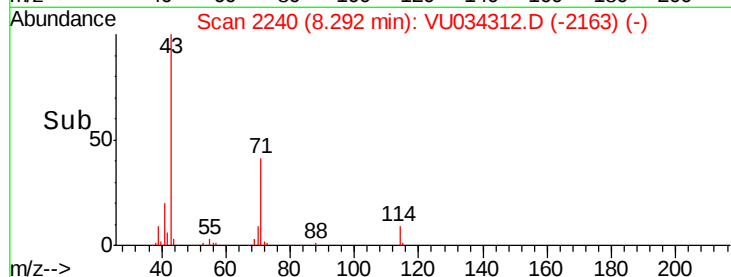
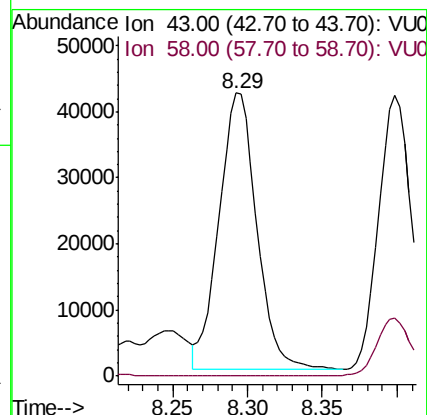
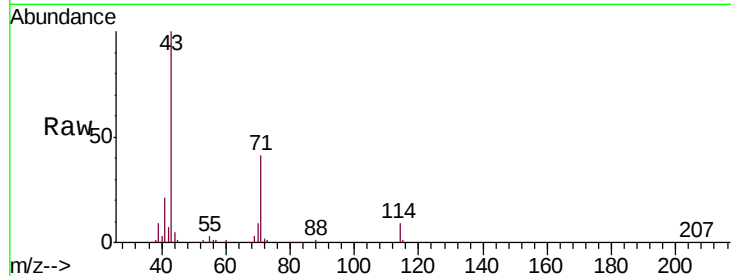




#59
2-Hexanone
Concen: 10.597 ug/l
RT: 8.29 min Scan# 2240
Delta R.T. -0.05 min
Lab File: VU034312.D
Acq: 06 Sep 2019 02:24

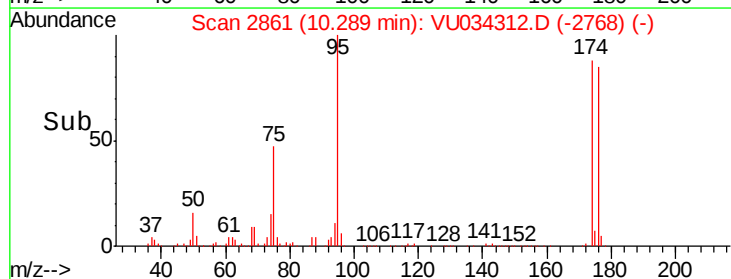
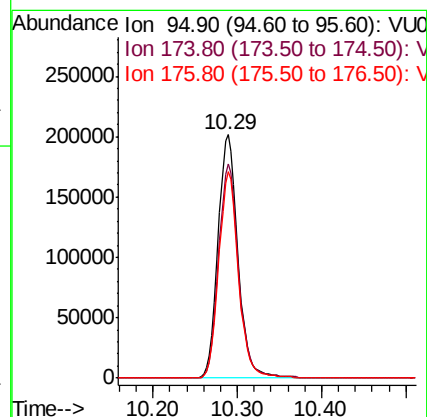
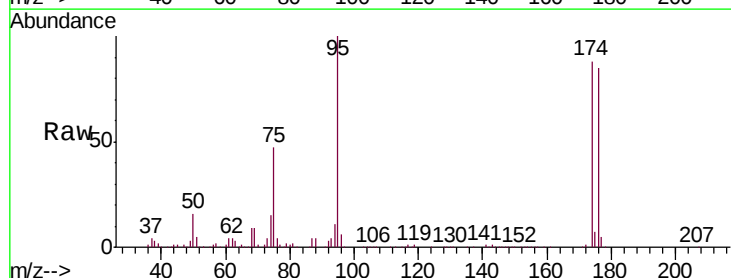
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B1-(3.5)

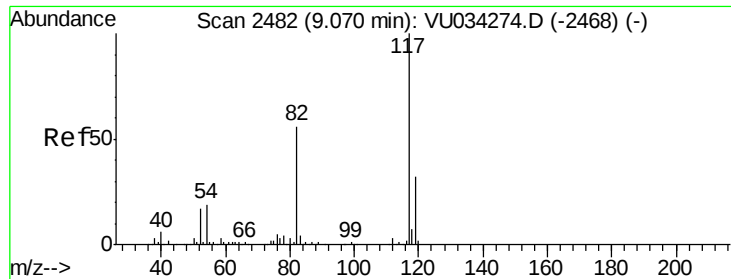
Tgt Ion: 43 Resp: 73750
Ion Ratio Lower Upper
43 100
58 0.0 28.8 86.5#



#62
4-Bromofluorobenzene
Concen: 36.476 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034312.D
Acq: 06 Sep 2019 02:24

Tgt Ion: 95 Resp: 331249
Ion Ratio Lower Upper
95 100
174 88.4 0.0 175.2
176 83.9 0.0 168.0

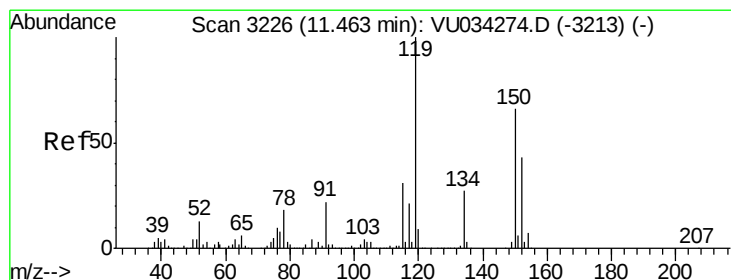
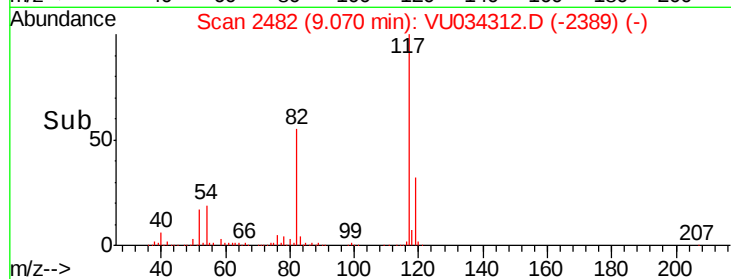
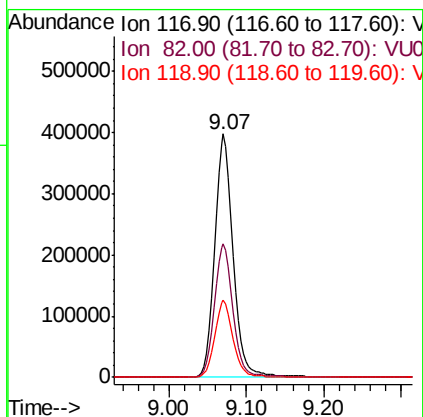
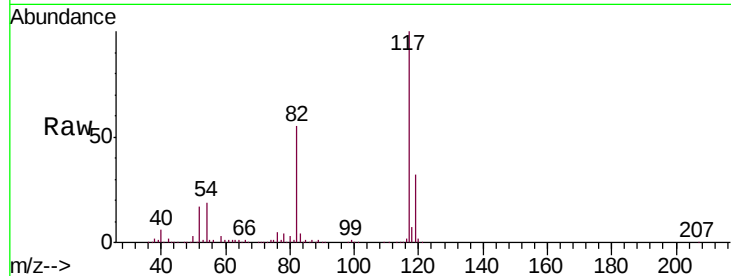




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034312.D
Acq: 06 Sep 2019 02:24

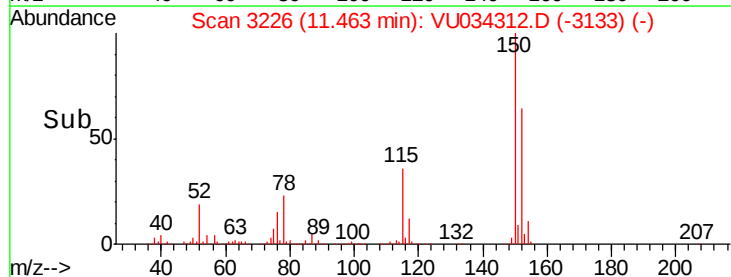
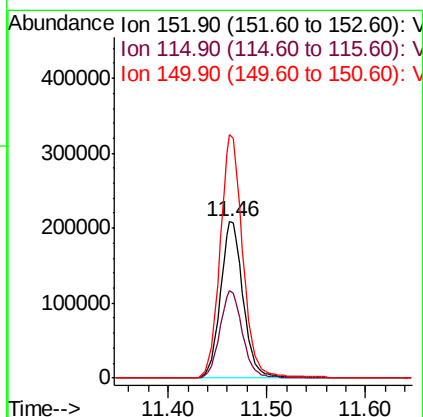
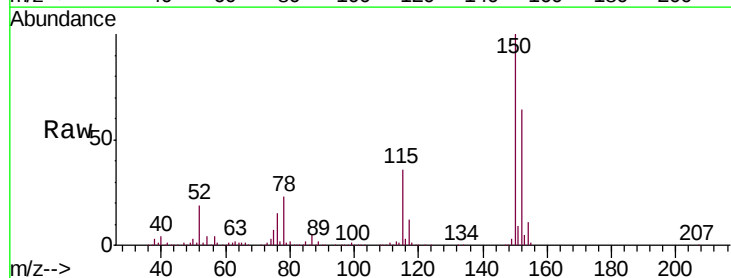
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B1-(3.5)

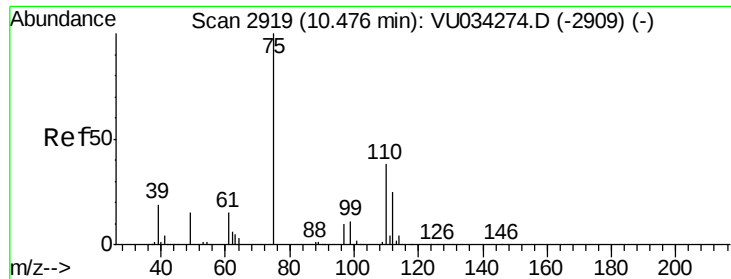
Tgt Ion:117 Resp: 677095
Ion Ratio Lower Upper
117 100
82 54.9 44.6 67.0
119 31.7 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VU034312.D
Acq: 06 Sep 2019 02:24

Tgt Ion:152 Resp: 337116
Ion Ratio Lower Upper
152 100
115 55.8 39.1 117.3
150 155.4 0.0 345.4





#76

1,2,3-Trichloropropane

Concen: 20.987 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034312.D

Acq: 06 Sep 2019 02:24

Instrument :

MSVOA_U

ClientSampleId :

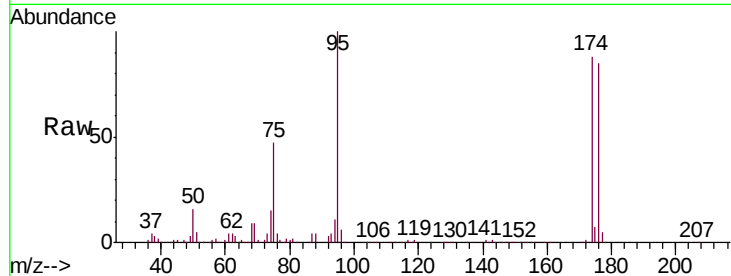
PAR-12-B1-(3.5)

Tgt Ion: 75 Resp: 154437

Ion Ratio Lower Upper

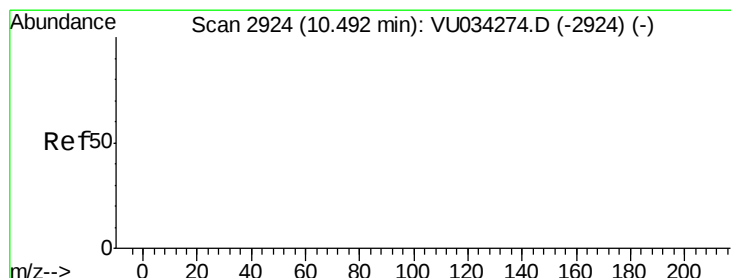
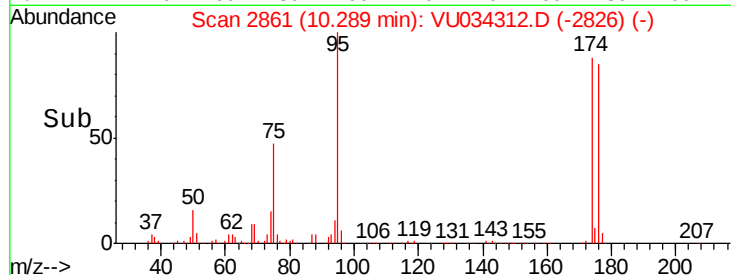
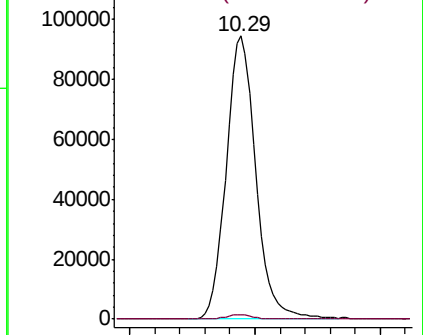
75 100

77 1.6 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: 70.578 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034312.D

Acq: 06 Sep 2019 02:24

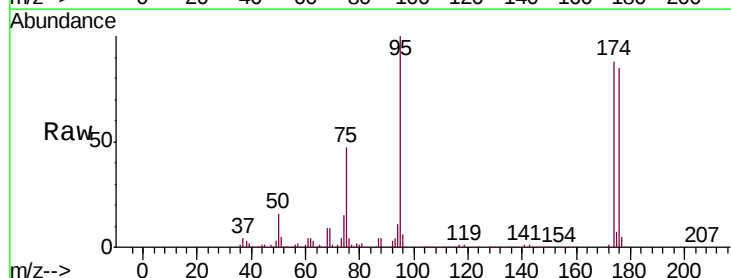
Tgt Ion: 75 Resp: 154437

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

