

Data File : VU034310.D
Acq On : 06 Sep 2019 01:37
Operator : JC/SP
Sample : K4579-28
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B3-(0)

Quant Time: Sep 06 07:46:35 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	421398	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	653454	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	667142	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	329948	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	272978	42.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.62%	
35) Dibromofluoromethane	4.86	113	238342	39.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.40%	
50) Toluene-d8	7.55	98	945180	41.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.74%	
62) 4-Bromofluorobenzene	10.29	95	333402	37.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.60%	

Target Compounds

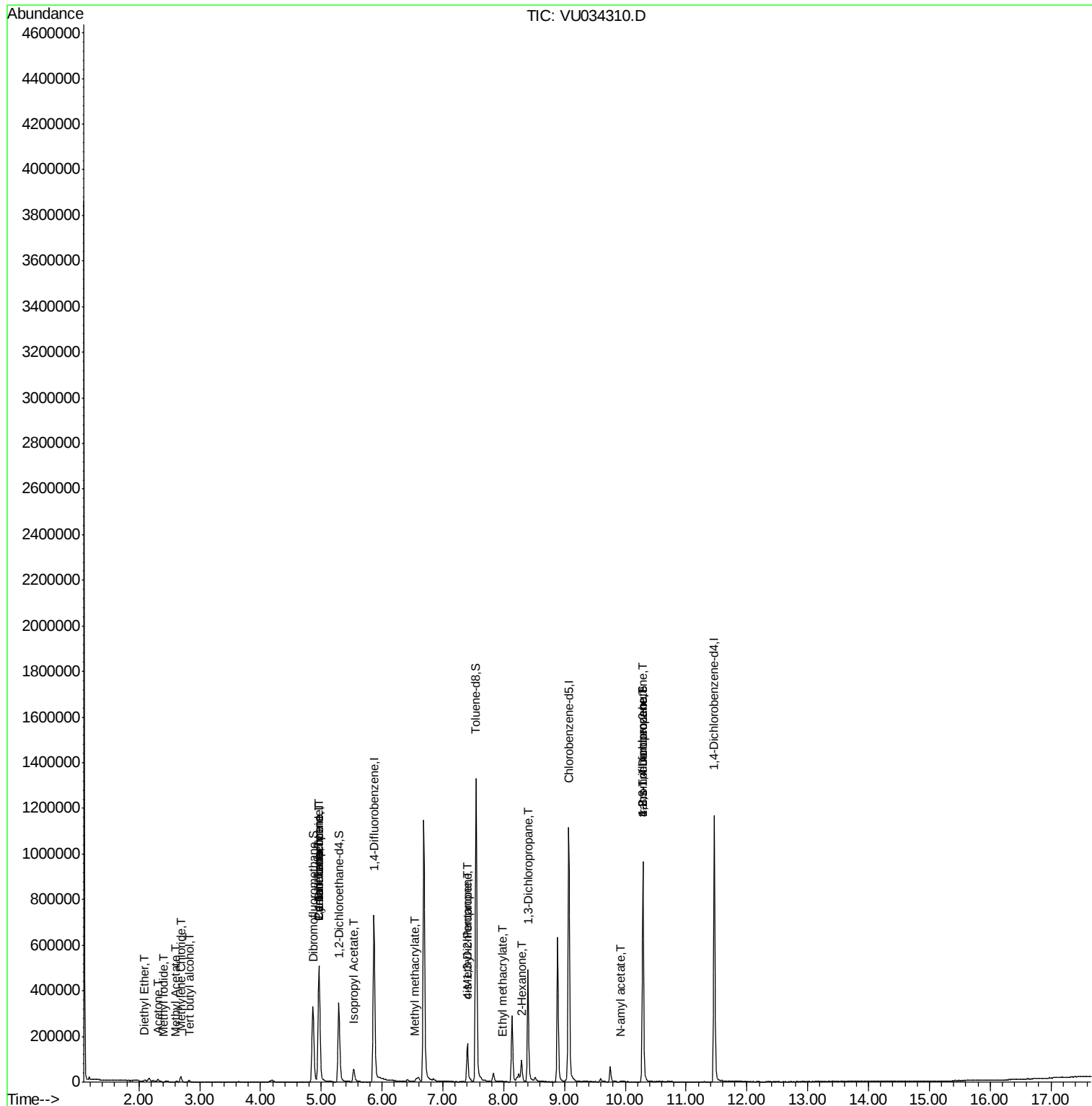
						Qvalue
3) Chloromethane	1.33	50	396	Below Cal		97
5) Bromomethane	1.62	94	554	Below Cal	#	57
6) Chloroethane	1.68	64	100	Below Cal	#	43
8) Diethyl Ether	2.09	74	1772	0.547	ug/l	79
10) Methyl Iodide	2.41	142	114	3.870	ug/l #	43
11) Tert butyl alcohol	2.82	59	4121	3.059	ug/l #	73
16) Acetone	2.31	43	12705	3.851	ug/l	98
18) Methyl Acetate	2.61	43	3432	0.427	ug/l #	85
20) Methylene Chloride	2.69	84	11077	1.663	ug/l	94
31) Cyclohexane	4.96	56	6609	0.885	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	29002	4.092	ug/l #	48
38) Carbon Tetrachloride	4.96	117	37426	4.946	ug/l #	15
43) Isopropyl Acetate	5.53	43	68421	5.235	ug/l	100
48) Methyl methacrylate	6.53	41	4427	0.713	ug/l #	13
51) 4-Methyl-2-Pentanone	7.40	43	59849	6.615	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	31417	3.197	ug/l #	64
56) Ethyl methacrylate	7.98	69	110	3.087	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	5121	0.483	ug/l #	43
59) 2-Hexanone	8.29	43	75183	11.123	ug/l #	22
74) N-amyl acetate	9.92	43	1765	0.204	ug/l #	43
76) 1,2,3-Trichloropropane	10.29	75	156425	21.719	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	156425	73.040	ug/l #	100

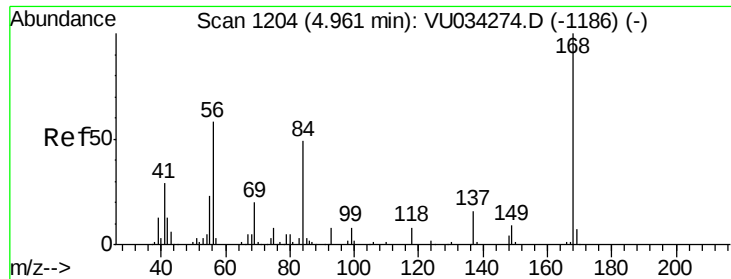
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034310.D

Acq: 06 Sep 2019 01:37

Instrument :

MSVOA_U

ClientSampleId :

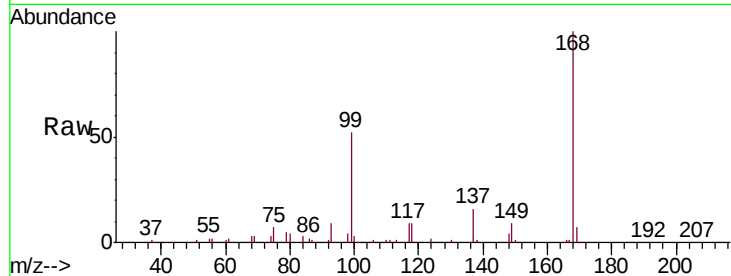
PAR-12-B3-(0)

Tgt Ion:168 Resp: 421398

Ion Ratio Lower Upper

168 100

99 52.1 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

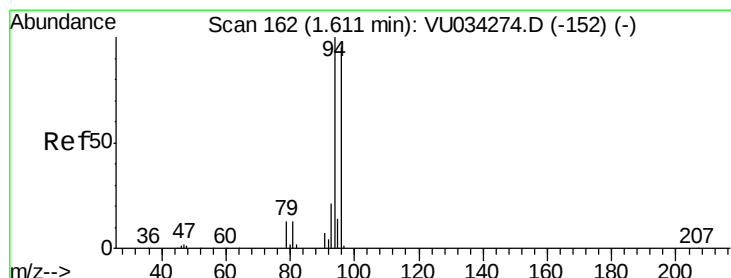
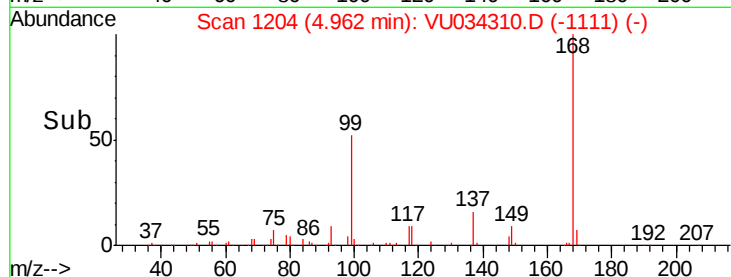
100000

50000

0

4.90 5.00 5.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU034310.D

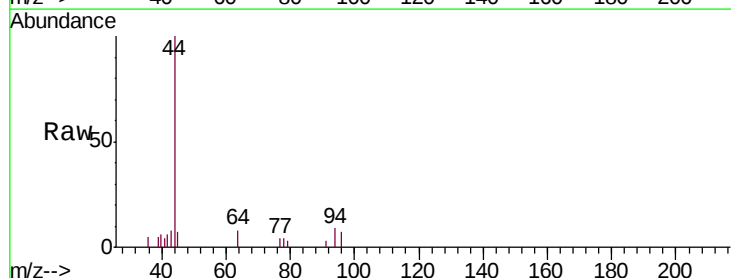
Acq: 06 Sep 2019 01:37

Tgt Ion: 94 Resp: 554

Ion Ratio Lower Upper

94 100

96 52.6 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) (-)

1.62

400

300

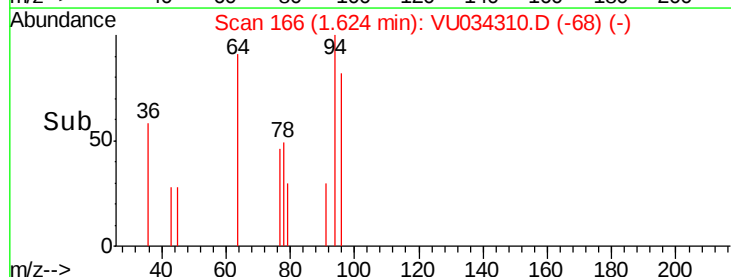
200

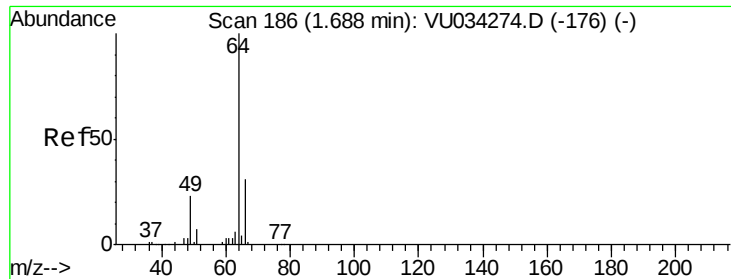
100

0

1.60 1.65

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU034310.D

Acq: 06 Sep 2019 01:37

Instrument :

MSVOA_U

ClientSampleId :

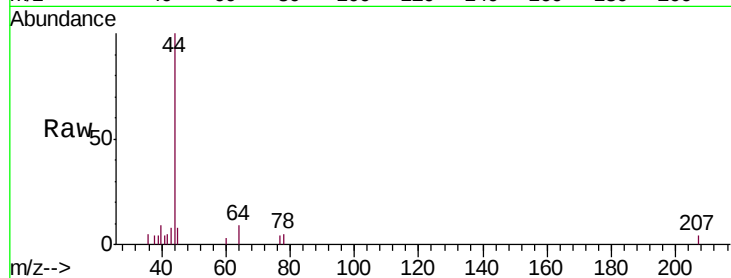
PAR-12-B3-(0)

Tgt Ion: 64 Resp: 100

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

400

300

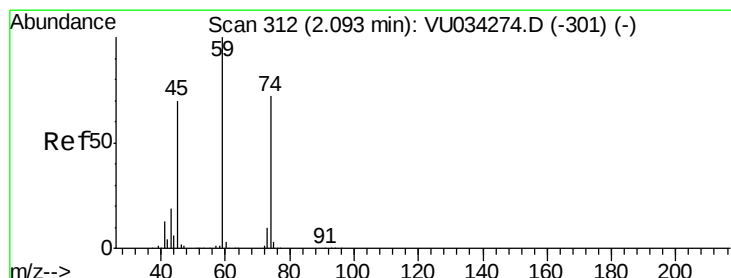
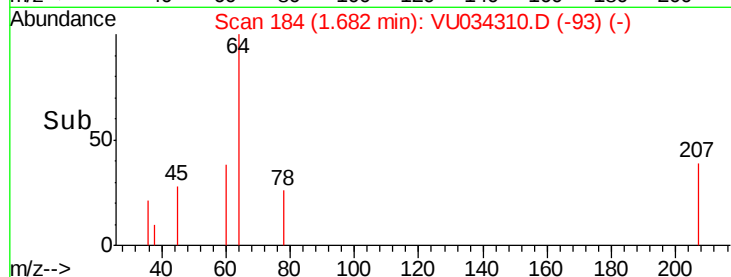
200

100

0

1.67 1.68 1.69

Time-->



#8

Diethyl Ether

Concen: 0.547 ug/l

RT: 2.09 min Scan# 312

Delta R.T. 0.00 min

Lab File: VU034310.D

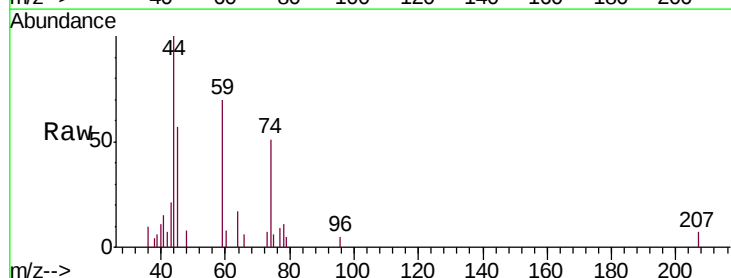
Acq: 06 Sep 2019 01:37

Tgt Ion: 74 Resp: 1772

Ion Ratio Lower Upper

74 100

45 117.3 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) (-)

2.09

1500

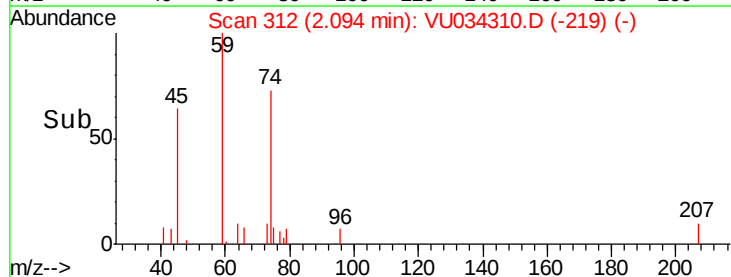
1000

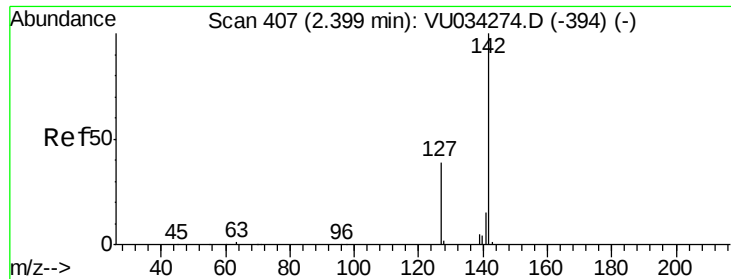
500

0

2.05 2.10 2.15

Time-->

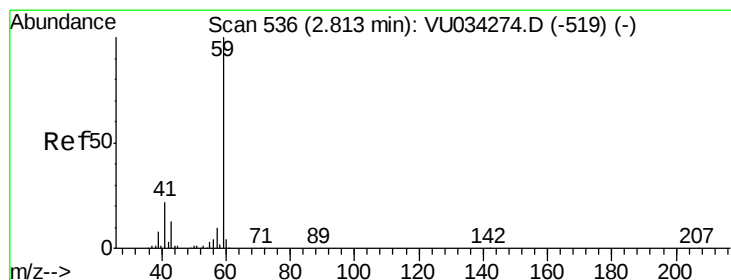
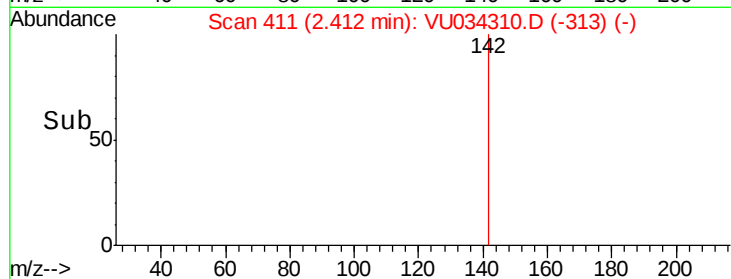
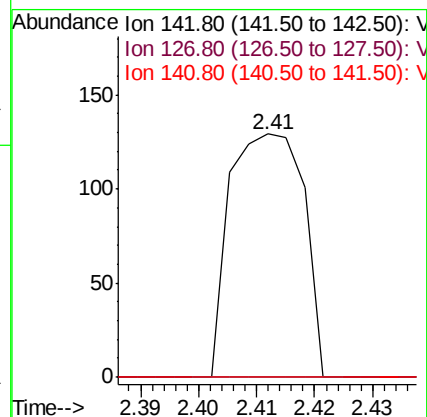
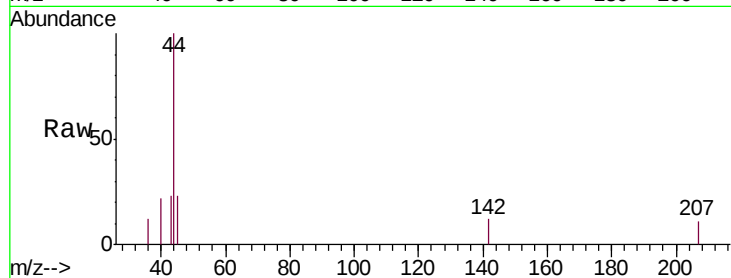




#10
Methyl Iodide
Concen: 3.870 ug/l
RT: 2.41 min Scan# 411
Delta R.T. 0.01 min
Lab File: VU034310.D
Acq: 06 Sep 2019 01:37

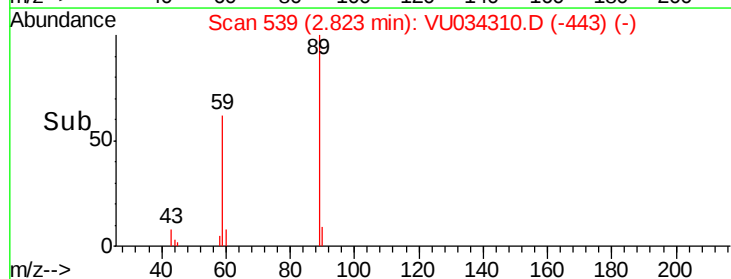
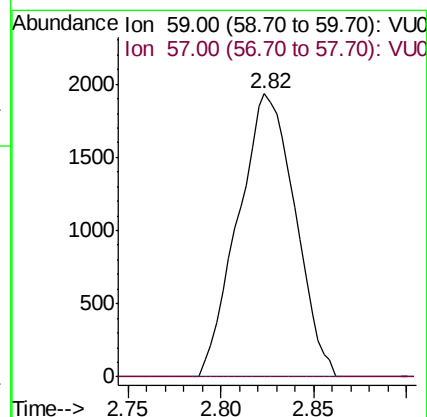
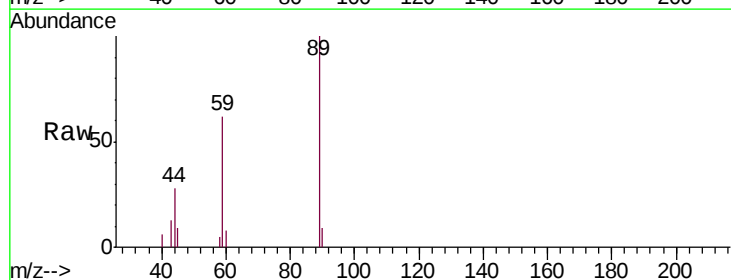
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B3-(0)

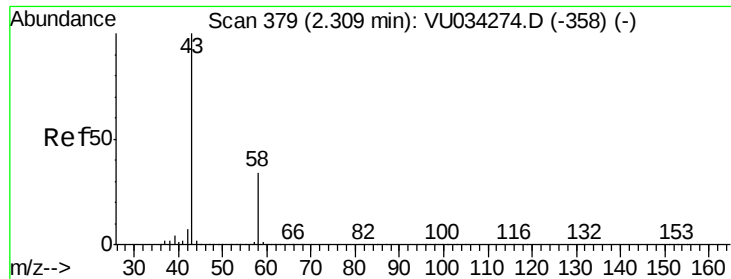
Tgt Ion: 142 Resp: 114
Ion Ratio Lower Upper
142 100
127 0.0 32.1 48.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 3.059 ug/l
RT: 2.82 min Scan# 539
Delta R.T. 0.01 min
Lab File: VU034310.D
Acq: 06 Sep 2019 01:37

Tgt Ion: 59 Resp: 4121
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#





#16

Acetone

Concen: 3.851 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034310.D

Acq: 06 Sep 2019 01:37

Instrument :

MSVOA_U

ClientSampleId :

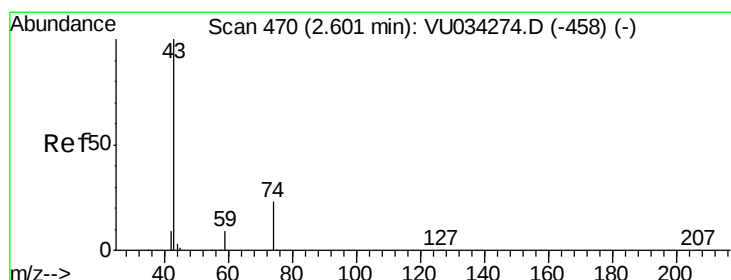
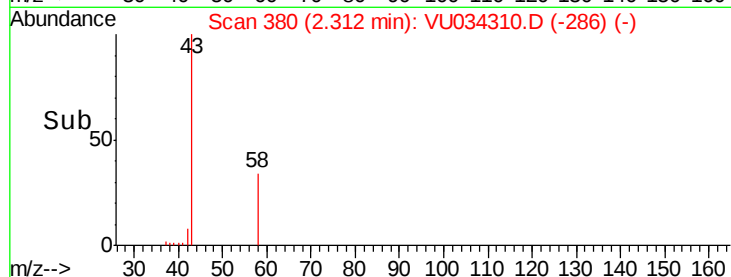
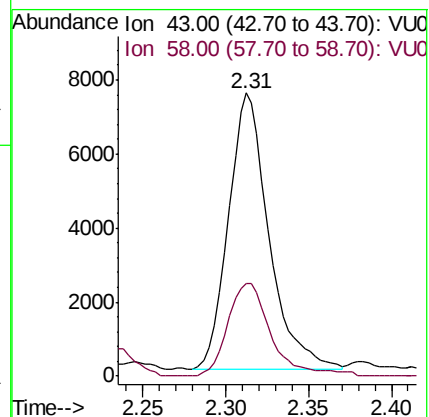
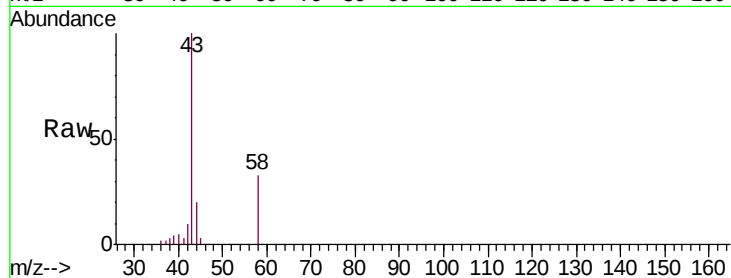
PAR-12-B3-(0)

Tgt Ion: 43 Resp: 12705

Ion Ratio Lower Upper

43 100

58 33.3 27.6 41.4



#18

Methyl Acetate

Concen: 0.427 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034310.D

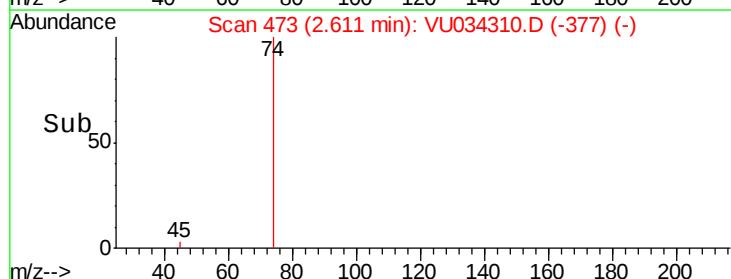
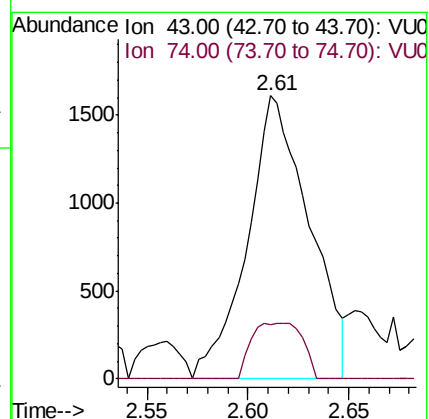
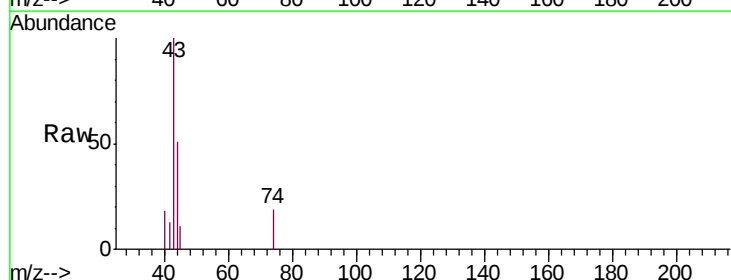
Acq: 06 Sep 2019 01:37

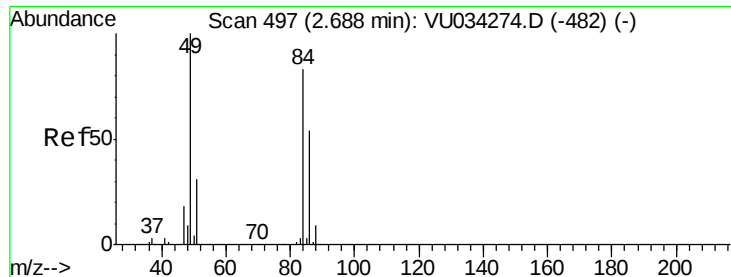
Tgt Ion: 43 Resp: 3432

Ion Ratio Lower Upper

43 100

74 16.3 18.9 28.3#

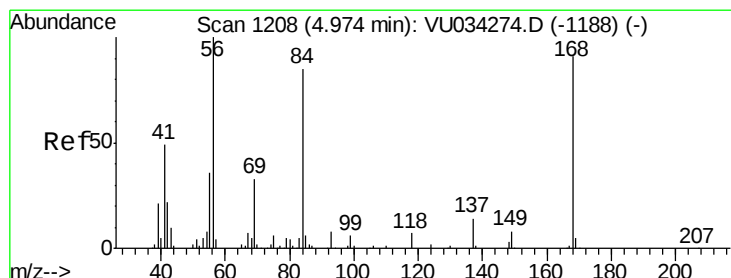
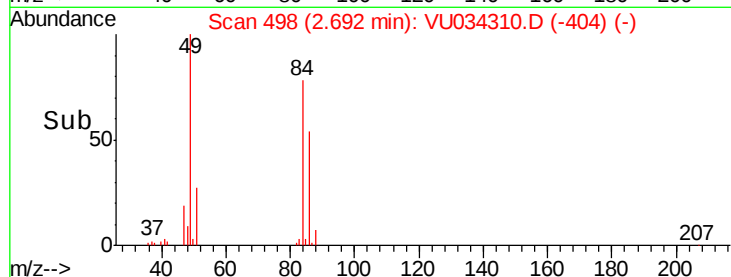
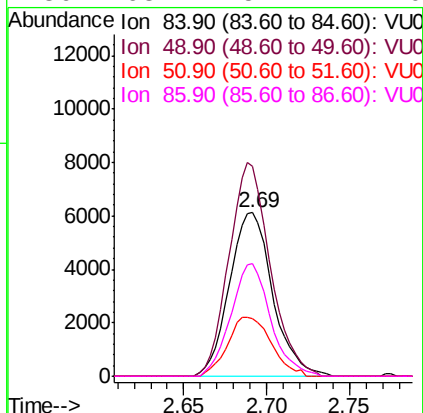
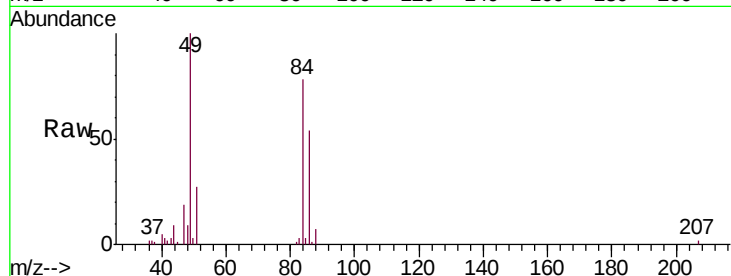




#20
Methylene Chloride
Concen: 1.663 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.00 min
Lab File: VU034310.D
Acq: 06 Sep 2019 01:37

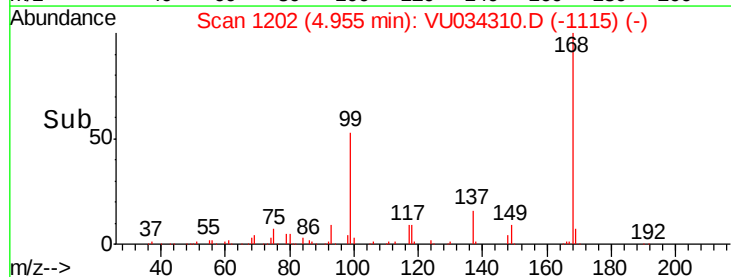
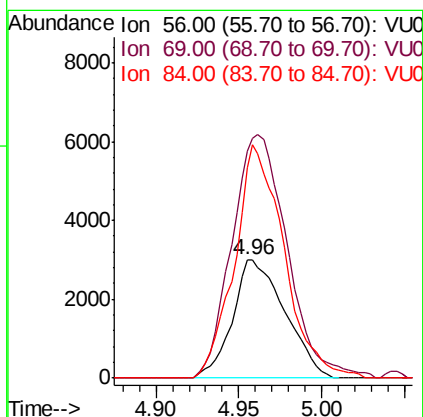
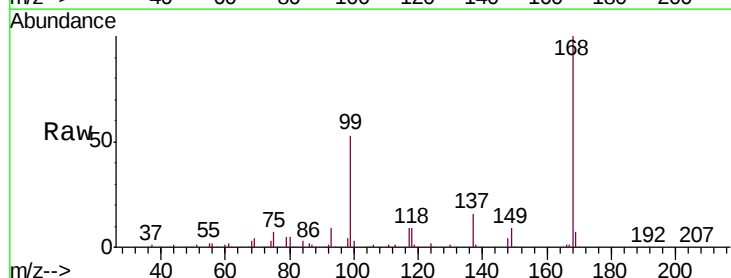
Instrument :
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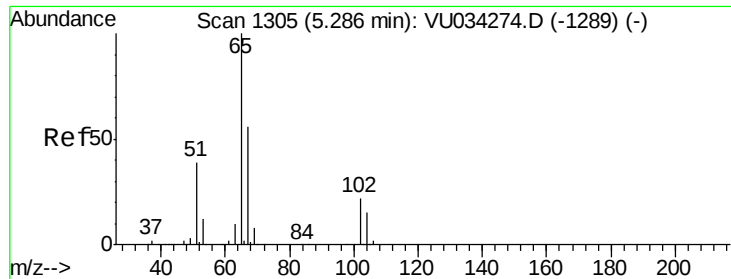
Tgt Ion: 84 Resp: 11077
Ion Ratio Lower Upper
84 100
49 128.3 96.0 144.0
51 35.3 30.0 45.0
86 68.7 51.4 77.0



#31
Cyclohexane
Concen: 0.885 ug/l
RT: 4.96 min Scan# 1202
Delta R.T. -0.02 min
Lab File: VU034310.D
Acq: 06 Sep 2019 01:37

Tgt Ion: 56 Resp: 6609
Ion Ratio Lower Upper
56 100
69 192.3 26.7 40.1#
84 178.2 68.2 102.4#





#33

1,2-Dichloroethane-d4

Concen: 42.814 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

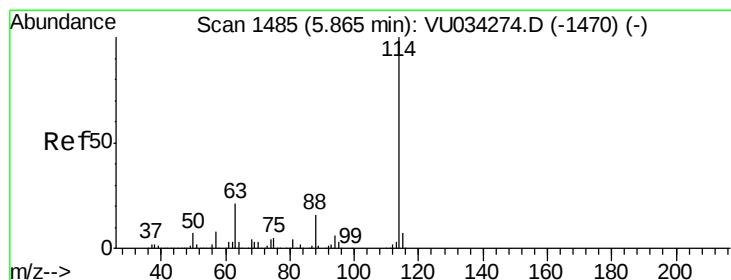
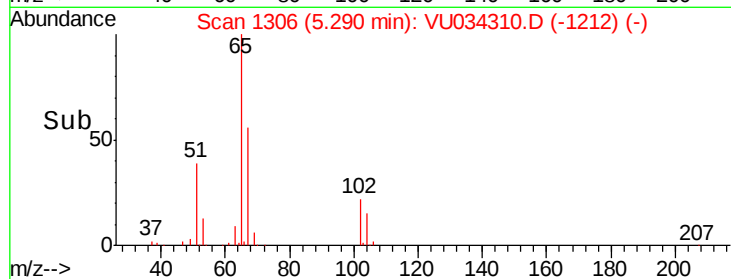
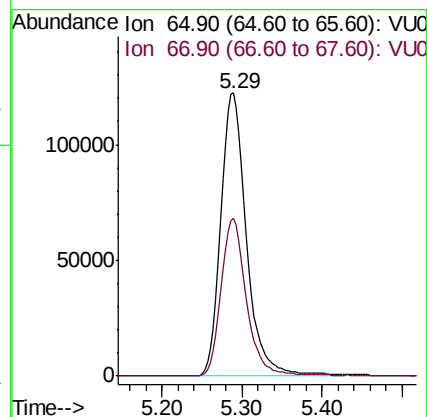
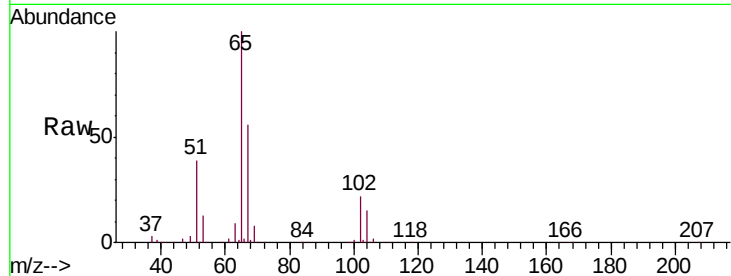
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PAR-12-B3-(0)

Tgt Ion: 65 Resp: 272978

Ion	Ratio	Lower	Upper
65	100		
67	54.8	0.0	112.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1485

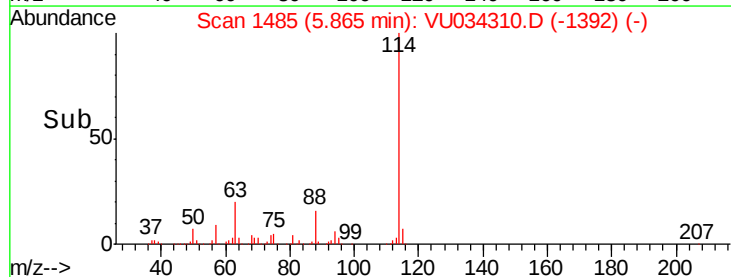
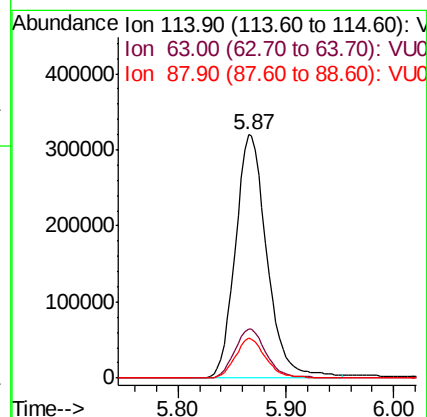
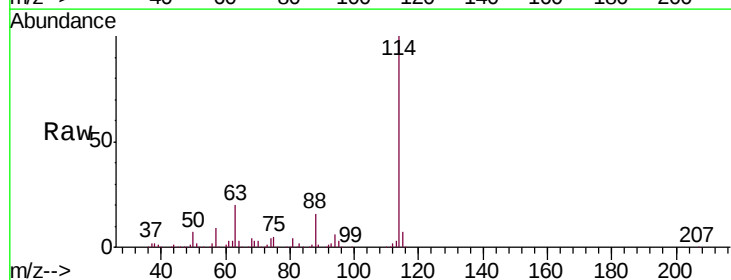
Delta R.T. 0.00 min

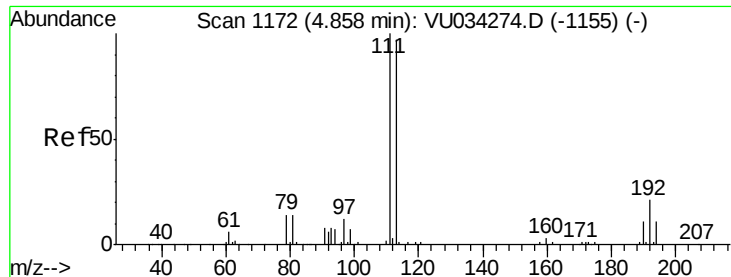
Lab File: VU034310.D

Acq: 06 Sep 2019 01:37

Tgt Ion: 114 Resp: 653454

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.4
88	16.3	0.0	32.4

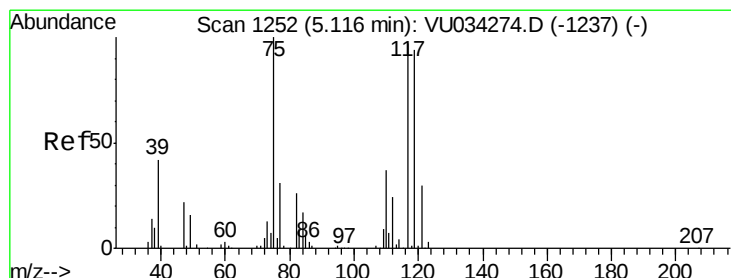
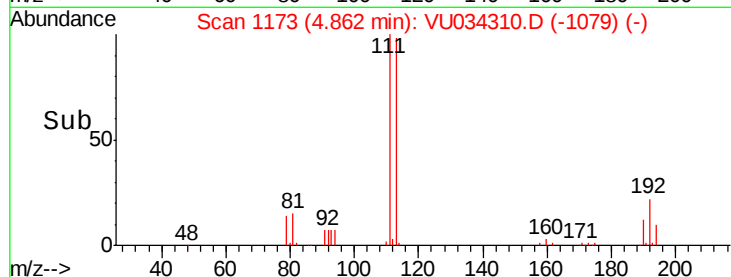
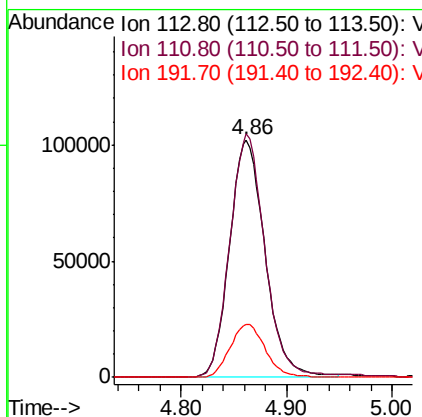
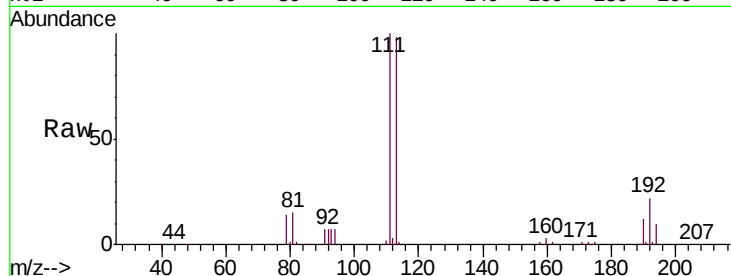




#35
 Dibromofluoromethane
 Concen: 39.198 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034310.D
 Acq: 06 Sep 2019 01:37

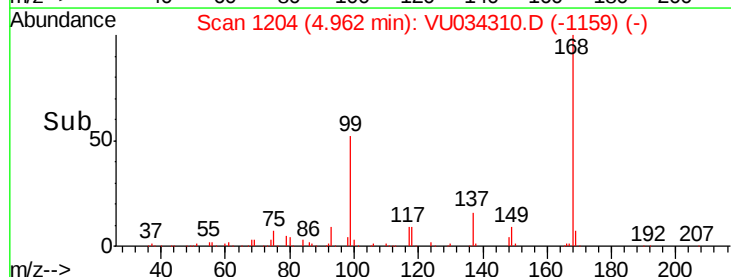
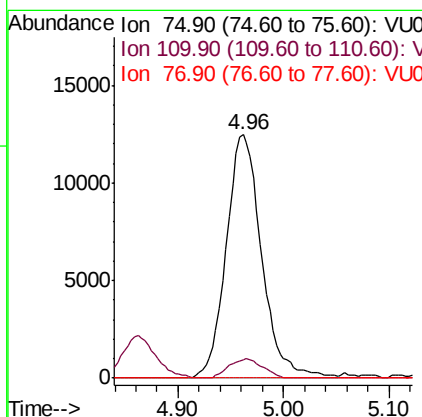
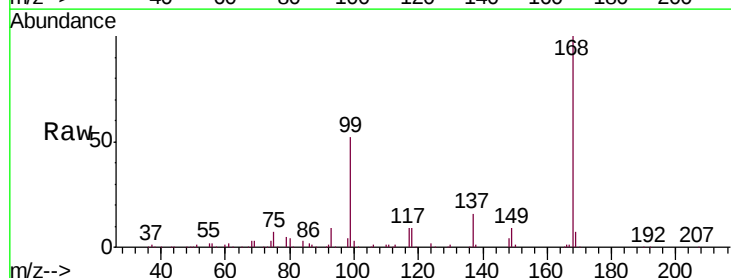
Instrument :
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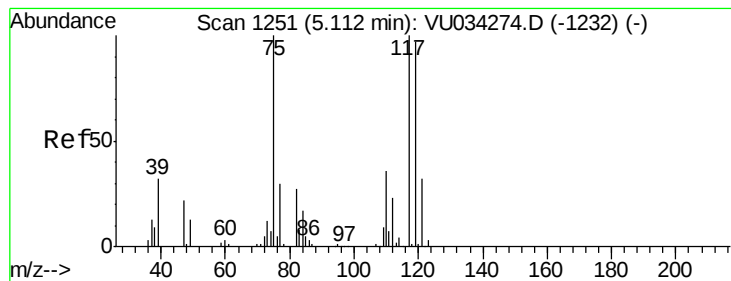
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.5	122.3
192	22.3	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 4.092 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034310.D
 Acq: 06 Sep 2019 01:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.6	18.3	54.9#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 4.946 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034310.D

Acq: 06 Sep 2019 01:37

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B3-(0)

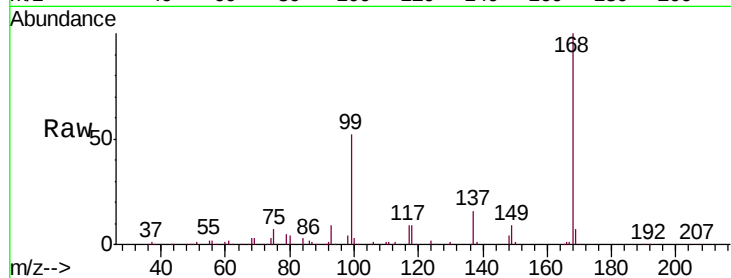
Tgt Ion:117 Resp: 37426

Ion Ratio Lower Upper

117 100

119 4.9 77.8 116.6#

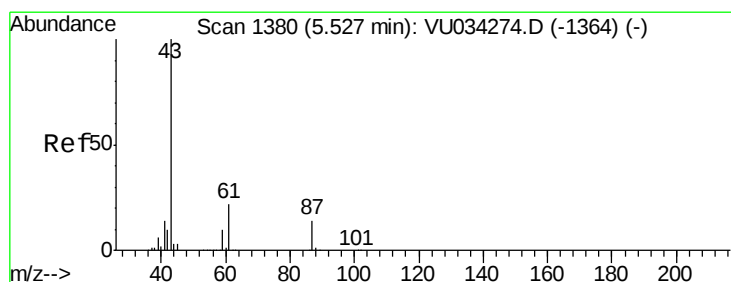
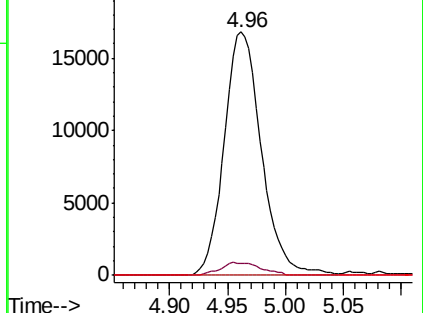
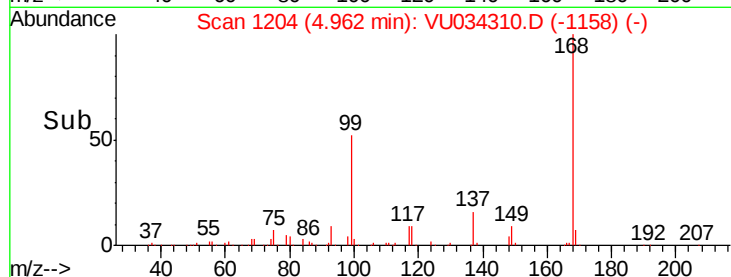
121 0.0 25.2 37.8#



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: 5.235 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034310.D

Acq: 06 Sep 2019 01:37

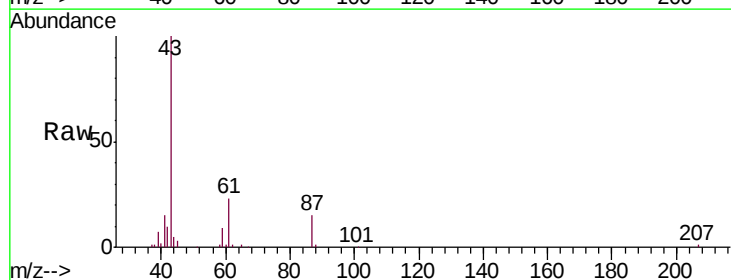
Tgt Ion: 43 Resp: 68421

Ion Ratio Lower Upper

43 100

61 21.5 17.1 25.7

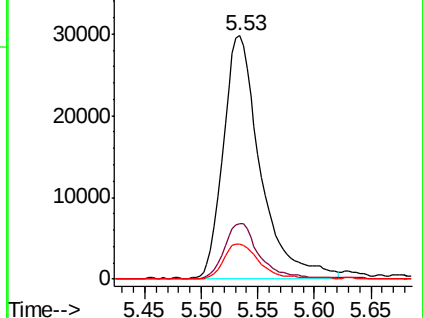
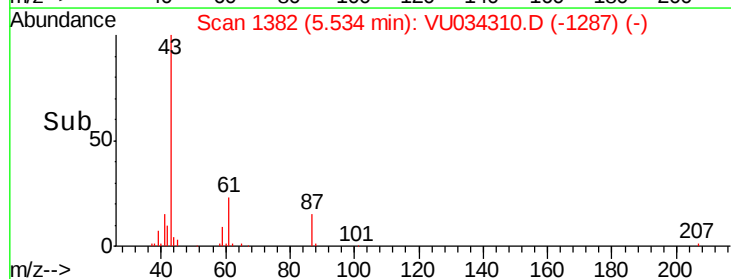
87 13.9 11.1 16.7

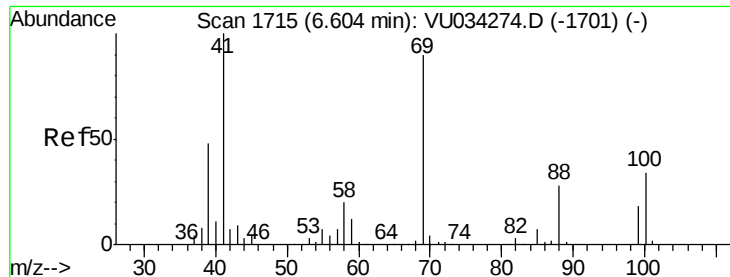


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#48

Methyl methacrylate

Concen: 0.713 ug/l

RT: 6.53 min Scan# 1693

Delta R.T. -0.07 min

Lab File: VU034310.D

Acq: 06 Sep 2019 01:37

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B3-(0)

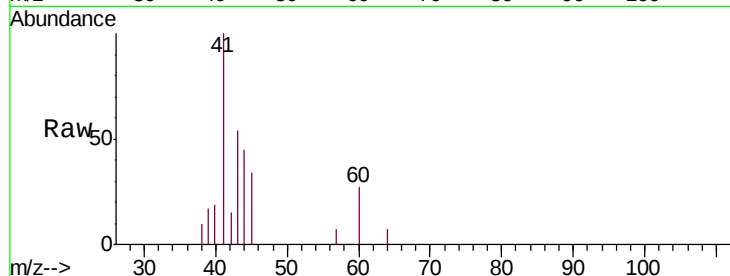
Tgt Ion: 41 Resp: 4427

Ion Ratio Lower Upper

41 100

69 0.0 72.8 109.2#

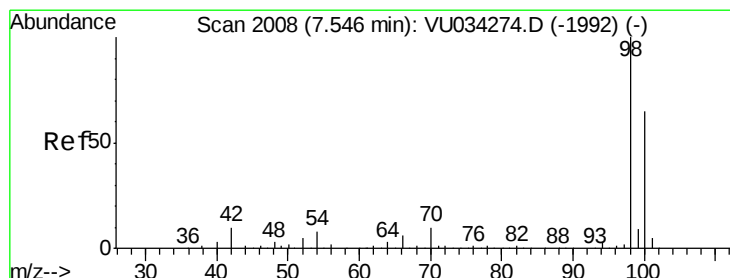
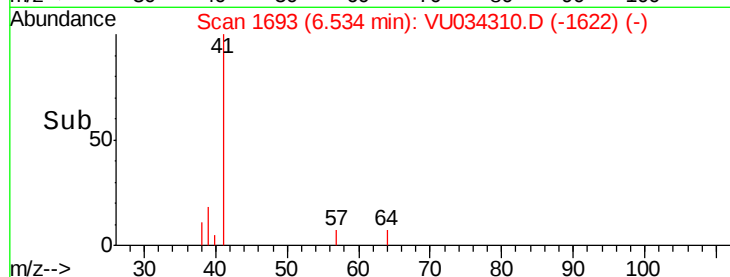
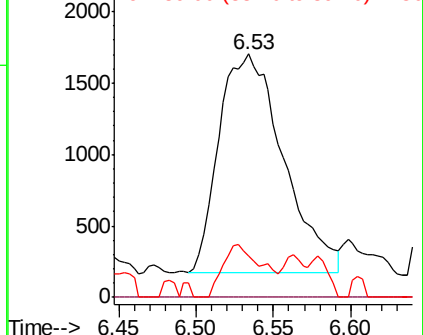
39 0.0 38.6 58.0#



Abundance Ion 41.00 (40.70 to 41.70): VU034310.D (-1622) (-)

Ion 69.00 (68.70 to 69.70): VU034310.D (-1622) (-)

Ion 39.00 (38.70 to 39.70): VU034310.D (-1622) (-)



#50

Toluene-d8

Concen: 41.375 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034310.D

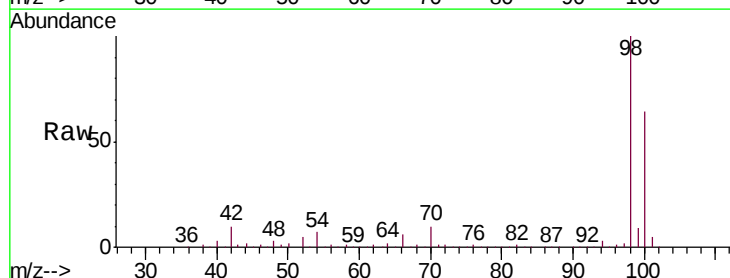
Acq: 06 Sep 2019 01:37

Tgt Ion: 98 Resp: 945180

Ion Ratio Lower Upper

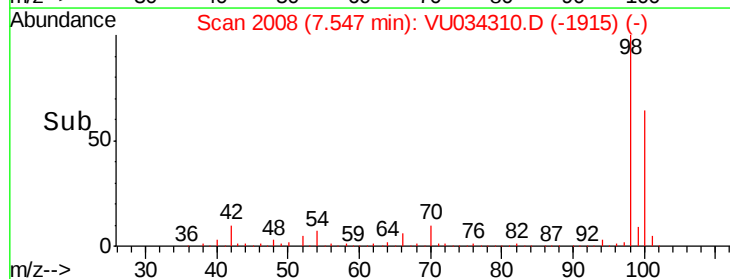
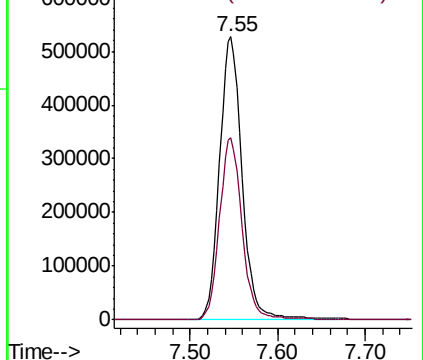
98 100

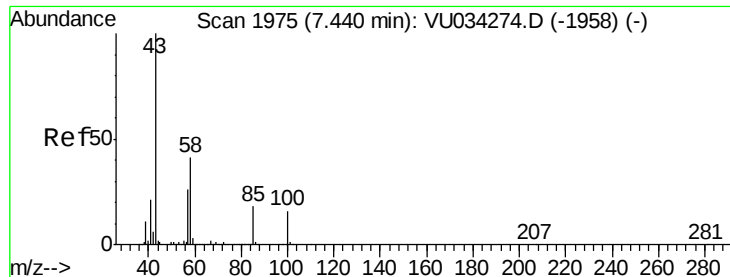
100 65.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU034310.D (-1915) (-)

Ion 100.00 (99.70 to 100.70): VU034310.D (-1915) (-)

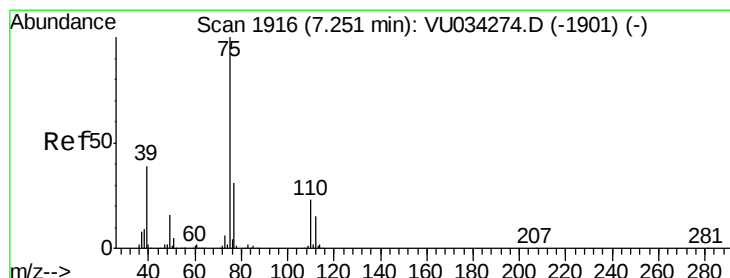
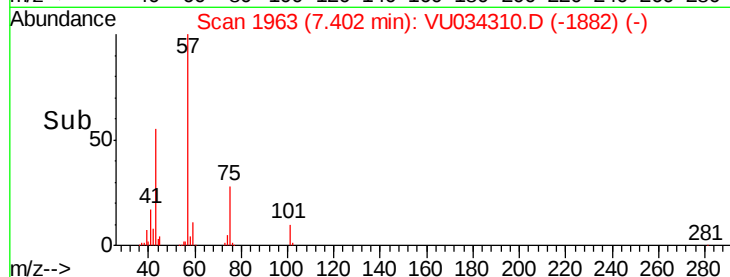
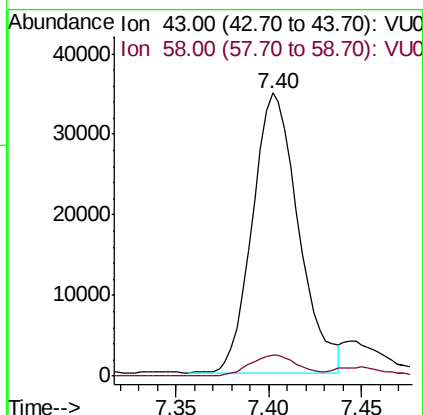
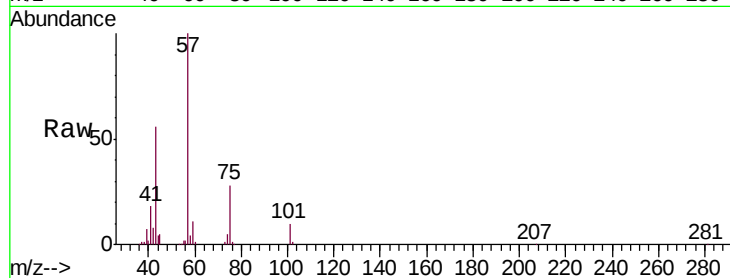




#51
 4-Methyl-2-Pentanone
 Concen: 6.615 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034310.D
 Acq: 06 Sep 2019 01:37

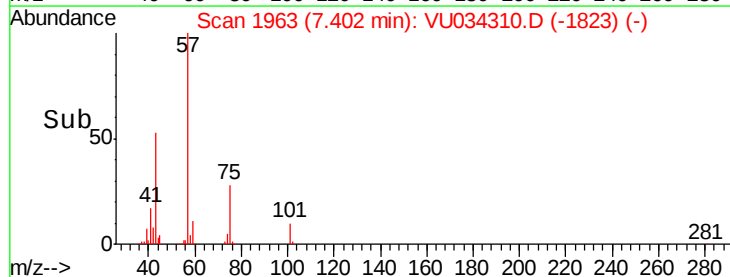
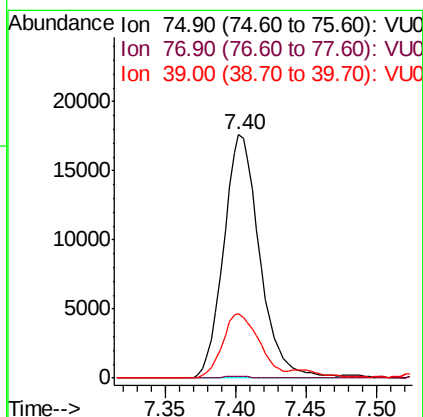
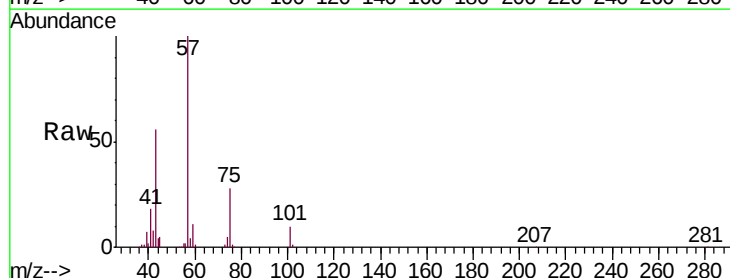
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-B3-(0)

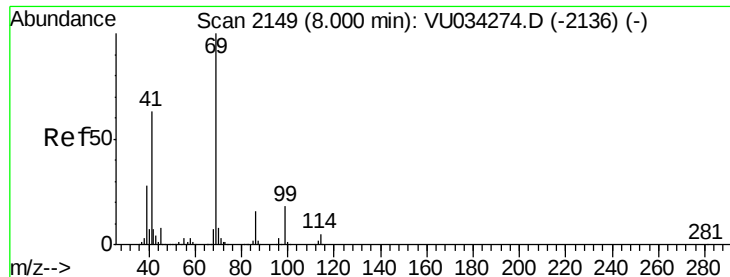
Tgt Ion: 43 Resp: 59849
 Ion Ratio Lower Upper
 43 100
 58 8.0 33.0 49.4#



#54
 cis-1,3-Dichloropropene
 Concen: 3.197 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034310.D
 Acq: 06 Sep 2019 01:37

Tgt Ion: 75 Resp: 31417
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.1 37.7#
 39 26.3 31.2 46.8#

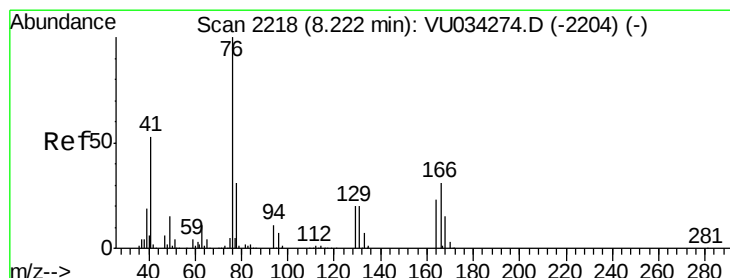
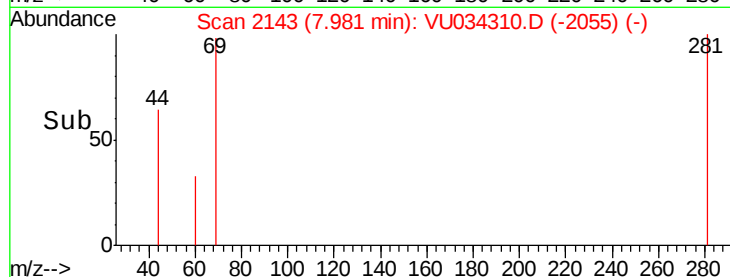
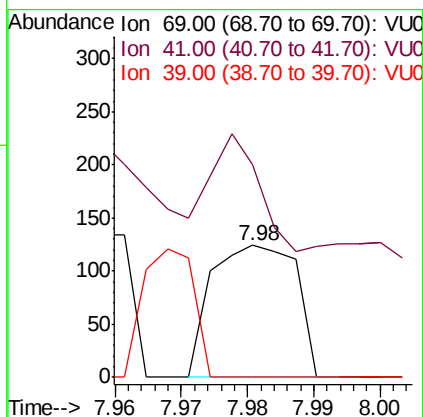
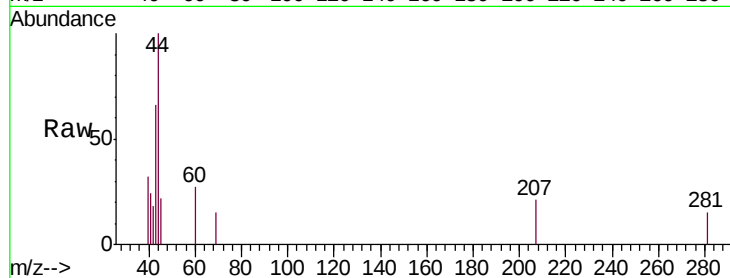




#56
Ethyl methacrylate
Concen: 3.087 ug/l
RT: 7.98 min Scan# 2143
Delta R.T. -0.02 min
Lab File: VU034310.D
Acq: 06 Sep 2019 01:37

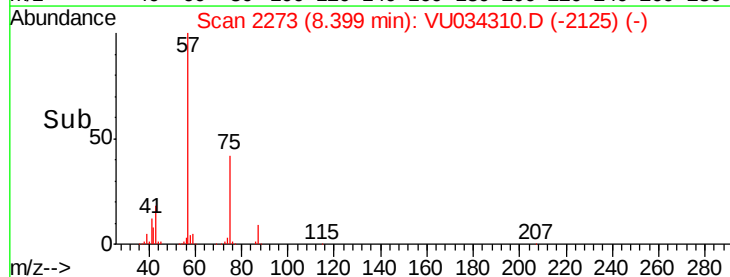
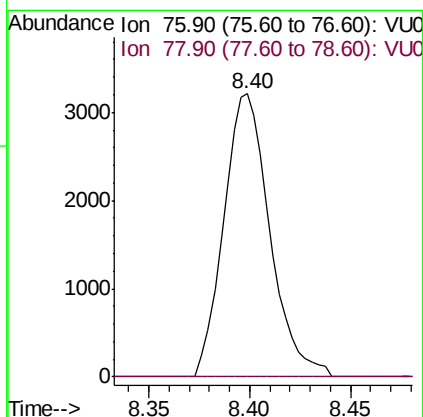
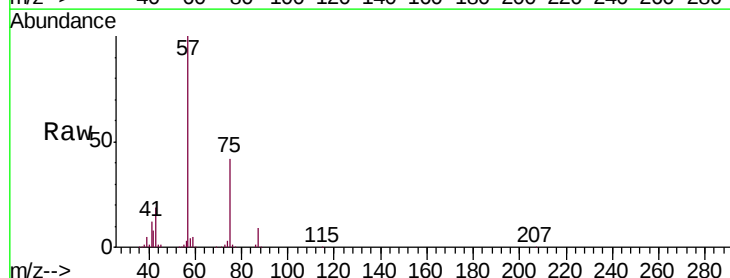
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B3-(0)

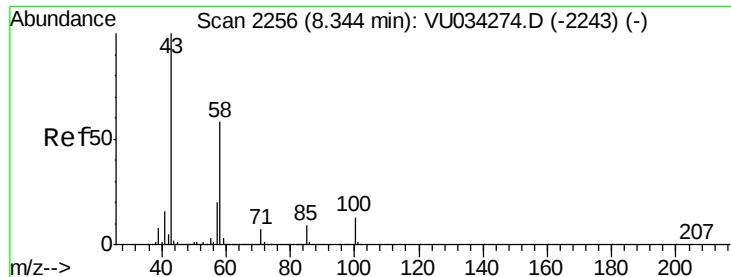
Tgt Ion: 69 Resp: 110
Ion Ratio Lower Upper
69 100
41 0.0 49.5 74.3#
39 0.0 22.5 33.7#



#57
1,3-Dichloropropane
Concen: 0.483 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.18 min
Lab File: VU034310.D
Acq: 06 Sep 2019 01:37

Tgt Ion: 76 Resp: 5121
Ion Ratio Lower Upper
76 100
78 0.0 25.4 38.2#

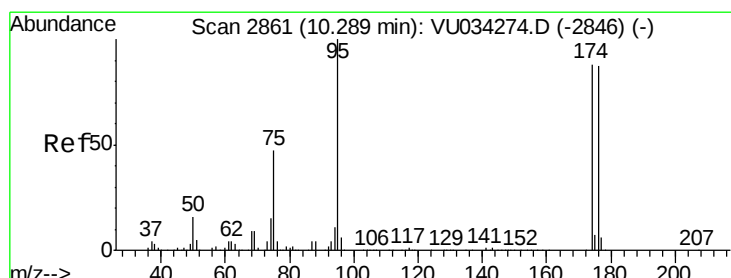
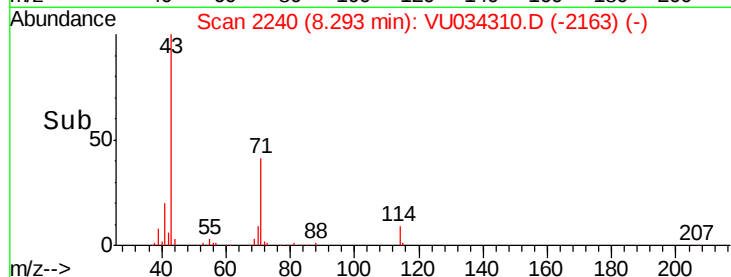
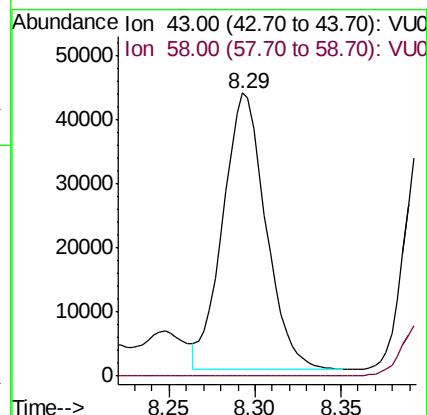
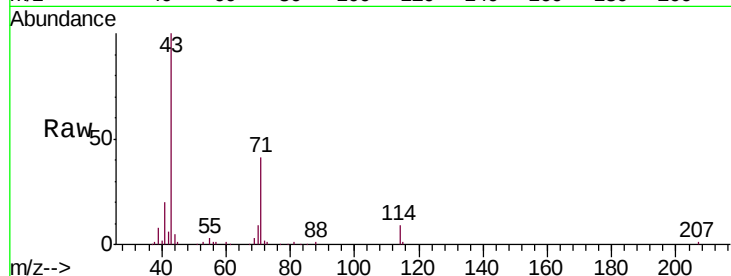




#59
2-Hexanone
Concen: 11.123 ug/l
RT: 8.29 min Scan# 2240
Delta R.T. -0.05 min
Lab File: VU034310.D
Acq: 06 Sep 2019 01:37

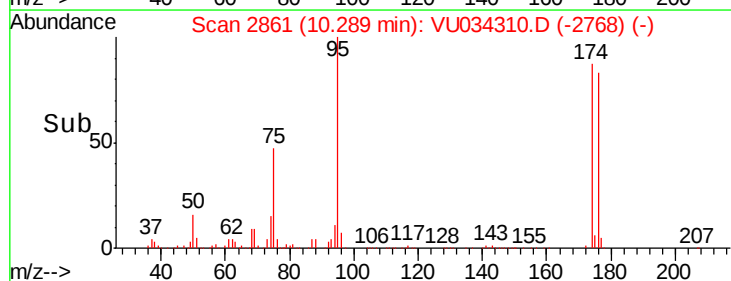
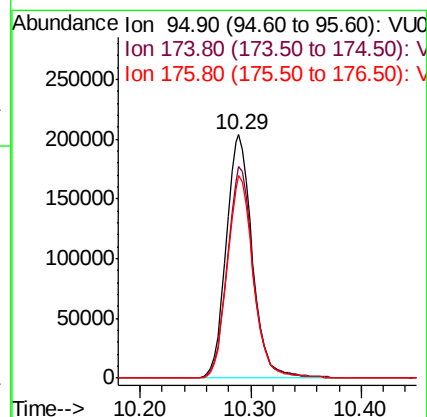
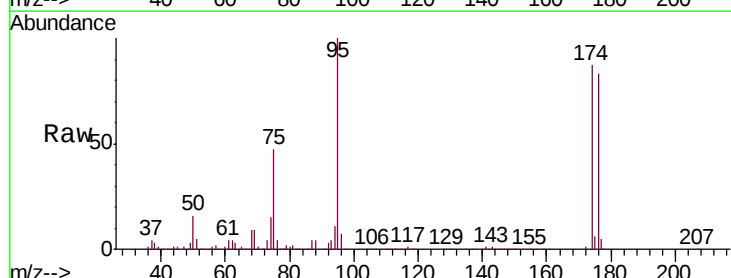
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B3-(0)

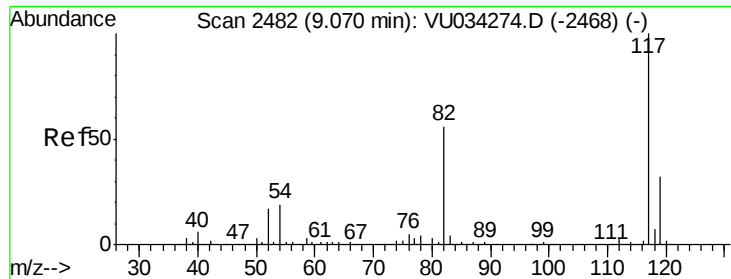
Tgt Ion: 43 Resp: 75183
Ion Ratio Lower Upper
43 100
58 0.0 28.8 86.5#



#62
4-Bromofluorobenzene
Concen: 37.801 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034310.D
Acq: 06 Sep 2019 01:37

Tgt Ion: 95 Resp: 333402
Ion Ratio Lower Upper
95 100
174 86.9 0.0 175.2
176 83.3 0.0 168.0

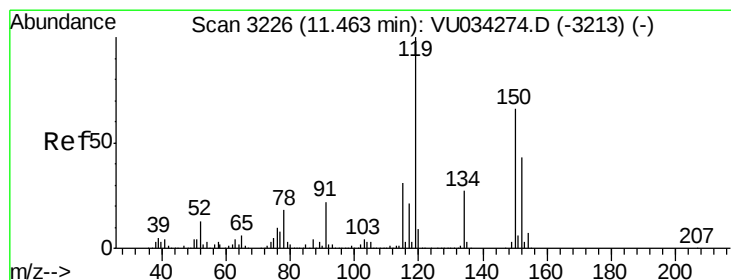
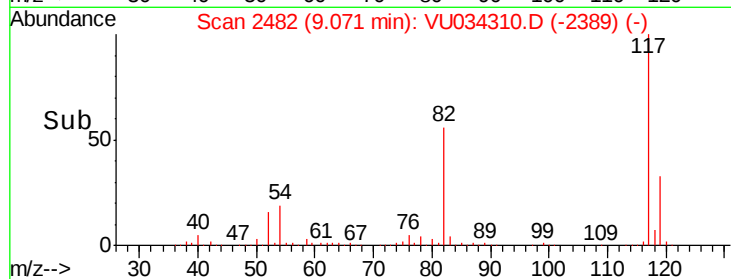
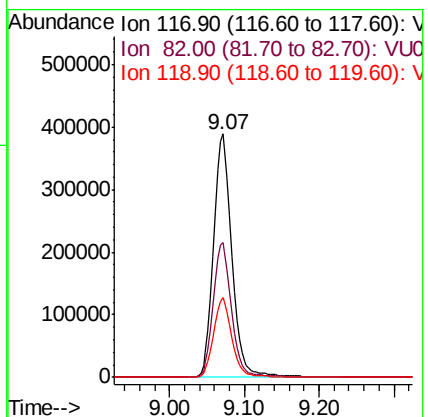
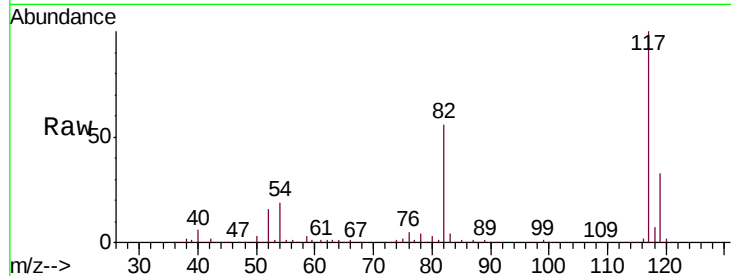




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034310.D
Acq: 06 Sep 2019 01:37

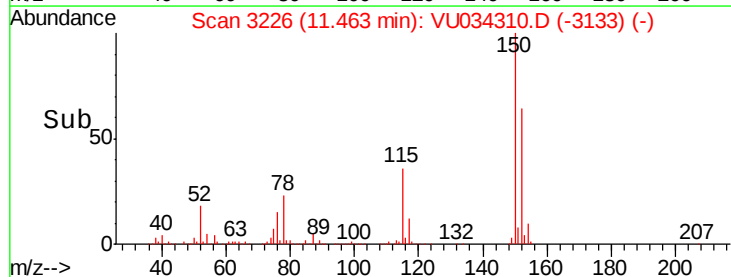
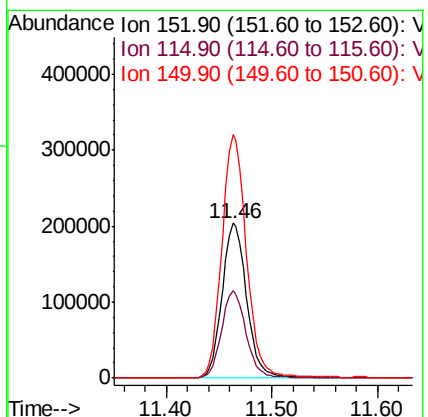
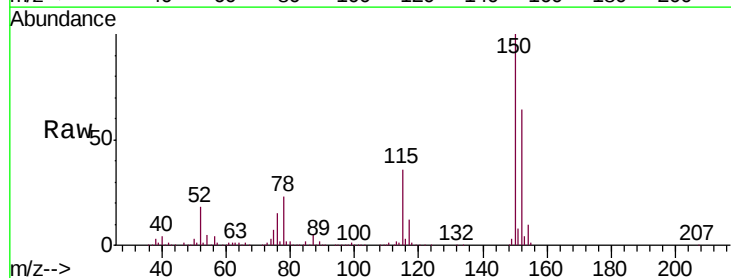
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-B3-(0)

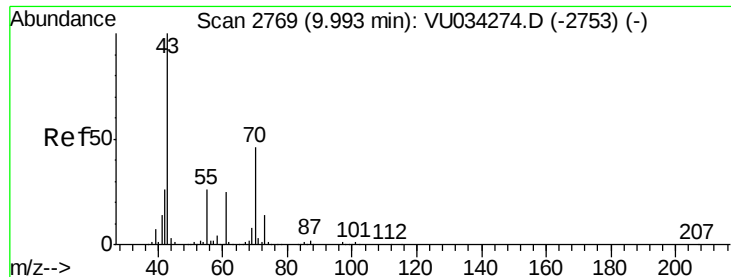
Tgt Ion:117 Resp: 667142
Ion Ratio Lower Upper
117 100
82 55.5 44.6 67.0
119 32.5 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VU034310.D
Acq: 06 Sep 2019 01:37

Tgt Ion:152 Resp: 329948
Ion Ratio Lower Upper
152 100
115 56.7 39.1 117.3
150 157.3 0.0 345.4





#74

N-ethyl acetate

Concen: 0.204 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034310.D

Acq: 06 Sep 2019 01:37

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B3-(0)

Tgt Ion: 43 Resp: 1765

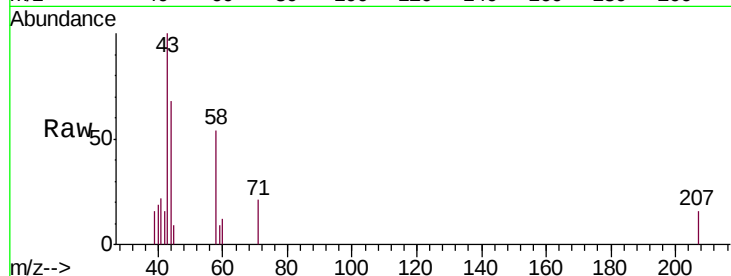
Ion Ratio Lower Upper

43 100

70 0.0 36.4 54.6#

55 3.8 21.2 31.8#

61 0.0 20.4 30.6#

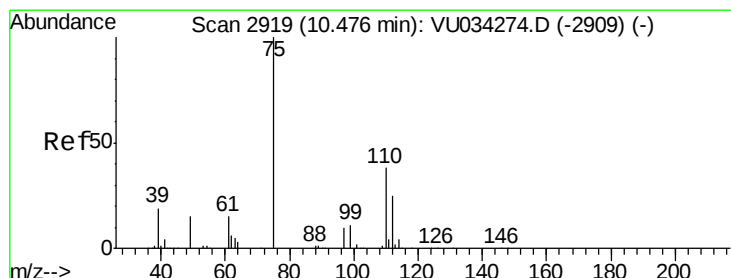
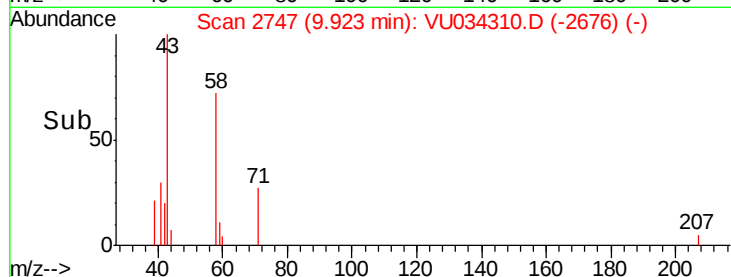
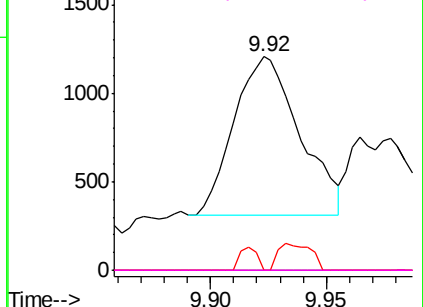


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



#76

1,2,3-Trichloropropane

Concen: 21.719 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034310.D

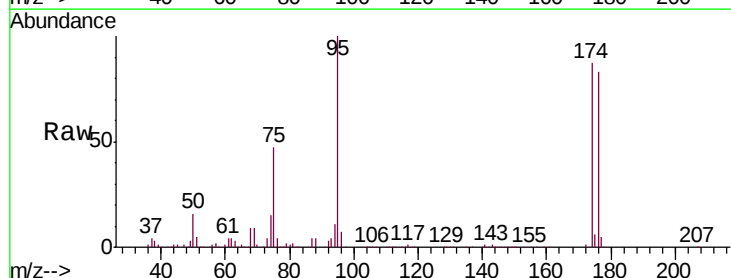
Acq: 06 Sep 2019 01:37

Tgt Ion: 75 Resp: 156425

Ion Ratio Lower Upper

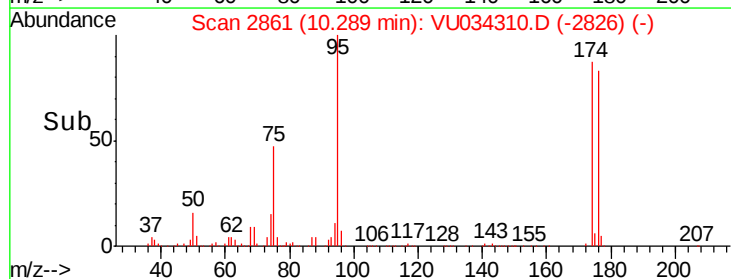
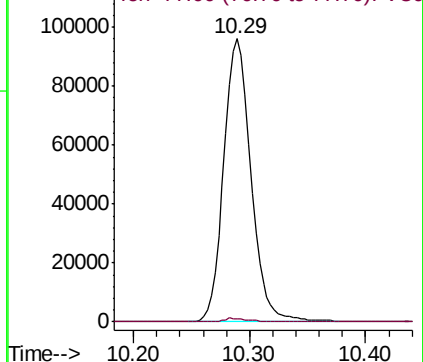
75 100

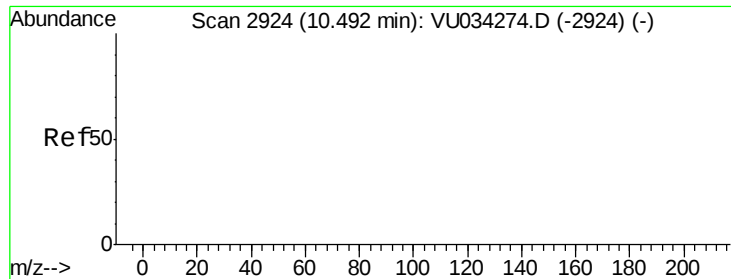
77 1.1 20.8 62.2#



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: 73.040 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034310.D

Acq: 06 Sep 2019 01:37

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-B3-(0)

Tgt Ion: 75 Resp: 156425

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0

