

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091019\
 Data File : VU034461.D
 Acq On : 10 Sep 2019 19:03
 Operator : JC/SP
 Sample : K4603-25
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-E4-(0)

Quant Time: Sep 11 05:58:11 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	235247	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	367734	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	382119	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	208519	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	202076	56.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.54%	
35) Dibromofluoromethane	4.86	113	177433	51.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.70%	
50) Toluene-d8	7.55	98	643297	50.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.08%	
62) 4-Bromofluorobenzene	10.29	95	217214	43.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.52%	

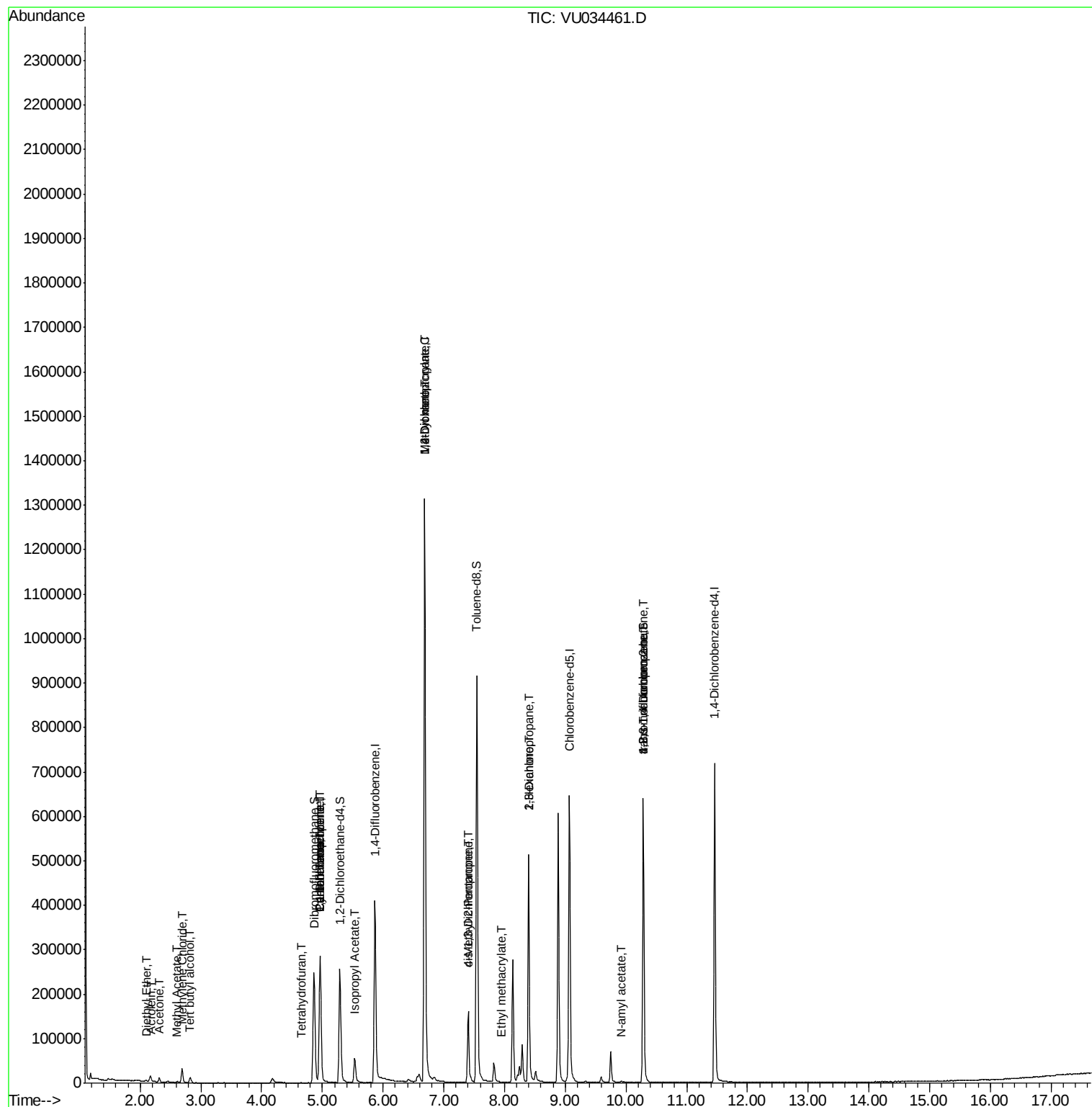
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	545	Below Cal		96
6) Chloroethane	1.69	64	97	Below Cal	#	43
8) Diethyl Ether	2.10	74	422	0.233	ug/l	97
11) Tert butyl alcohol	2.82	59	7275	9.675	ug/l #	74
13) Acrolein	2.19	56	154	0.244	ug/l #	72
16) Acetone	2.32	43	10945	5.942	ug/l	100
18) Methyl Acetate	2.61	43	3599	0.803	ug/l	92
20) Methylene Chloride	2.69	84	14405	4.410	ug/l	96
29) Tetrahydrofuran	4.65	42	308	0.206	ug/l #	43
31) Cyclohexane	4.97	56	3629	0.870	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	16001	4.012	ug/l #	49
38) Carbon Tetrachloride	4.96	117	20782	4.880	ug/l #	16
43) Isopropyl Acetate	5.53	43	63873	8.683	ug/l	99
45) 1,2-Dichloropropane	6.68	63	1502	0.399	ug/l #	44
48) Methyl methacrylate	6.68	41	114571	32.794	ug/l #	37
49) 1,4-Dioxane	6.68	88	41	0.537	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	53860	10.578	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	30497	5.514	ug/l #	65
56) Ethyl methacrylate	7.95	69	195	3.109	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	5576	0.934	ug/l #	43
59) 2-Hexanone	8.40	43	67503	17.747	ug/l #	55
74) N-amyl acetate	9.93	43	1560	0.286	ug/l #	46
76) 1,2,3-Trichloropropane	10.29	75	102221	22.458	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	102221	75.526	ug/l #	100

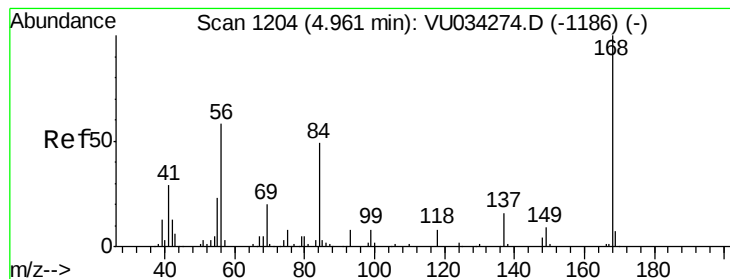
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034461.D

Acq: 10 Sep 2019 19:03

Instrument :

MSVOA_U

ClientSampleId :

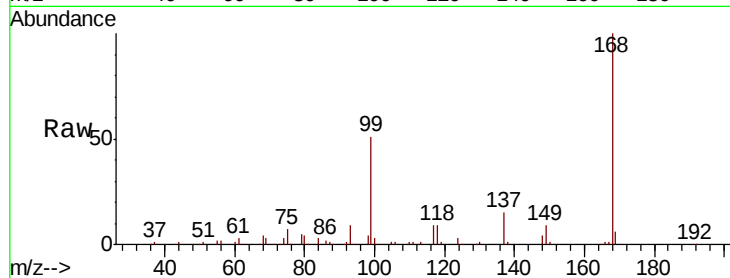
PAR-E4-(0)

Tgt Ion: 168 Resp: 235247

Ion Ratio Lower Upper

168 100

99 51.4 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034461.D (-1111) (-)

Ion 98.90 (98.60 to 99.60): VU034461.D (-1111) (-)

4.96

120000

100000

80000

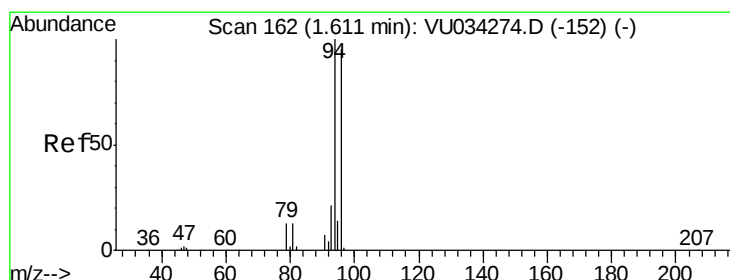
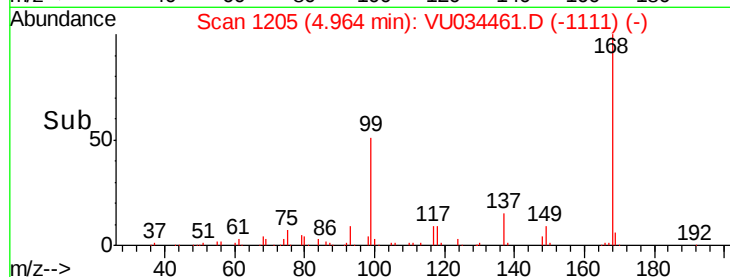
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034461.D

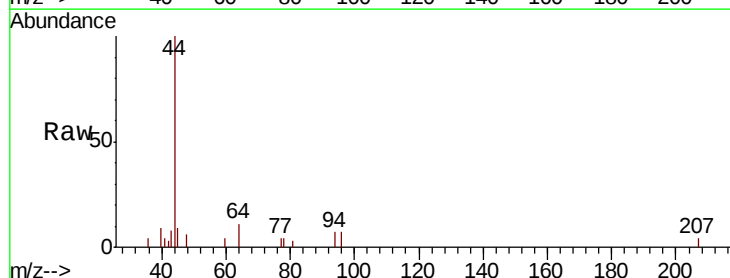
Acq: 10 Sep 2019 19:03

Tgt Ion: 94 Resp: 545

Ion Ratio Lower Upper

94 100

96 98.4 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034461.D (-68) (-)

Ion 95.90 (95.60 to 96.60): VU034461.D (-68) (-)

1.63

300

250

200

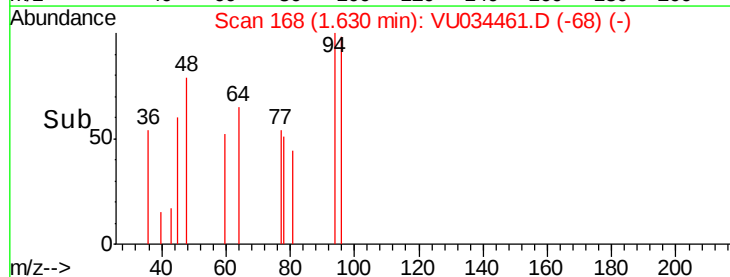
150

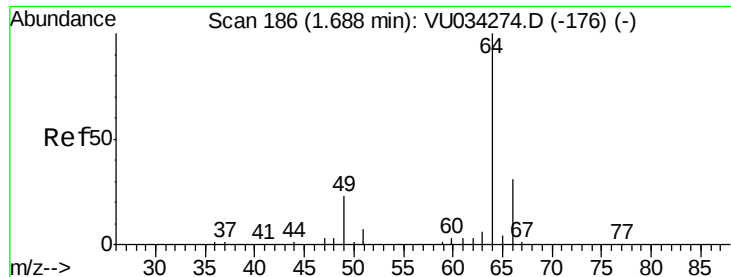
100

50

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 188

Delta R.T. 0.01 min

Lab File: VU034461.D

Acq: 10 Sep 2019 19:03

Instrument :

MSVOA_U

ClientSampleId :

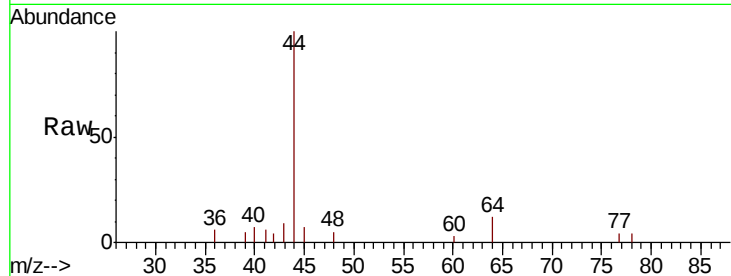
PAR-E4-(0)

Tgt Ion: 64 Resp: 97

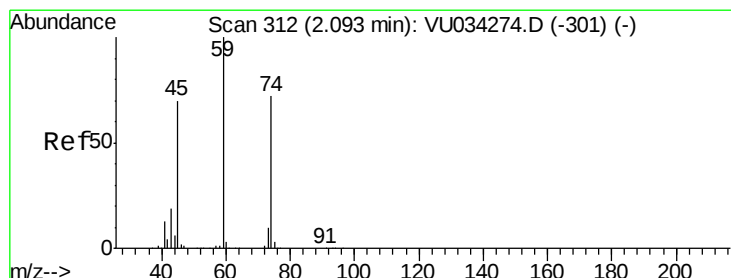
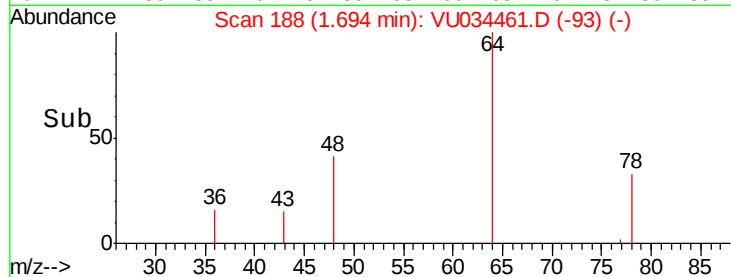
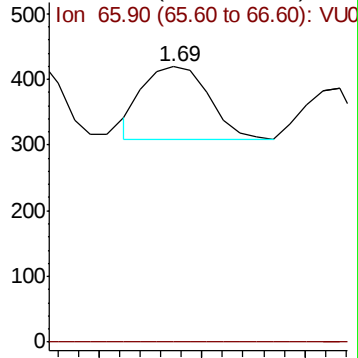
Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU034461.D (-93) (-)



#8

Diethyl Ether

Concen: 0.233 ug/l

RT: 2.10 min Scan# 315

Delta R.T. 0.01 min

Lab File: VU034461.D

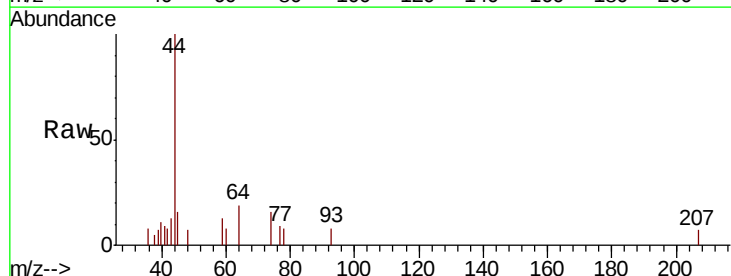
Acq: 10 Sep 2019 19:03

Tgt Ion: 74 Resp: 422

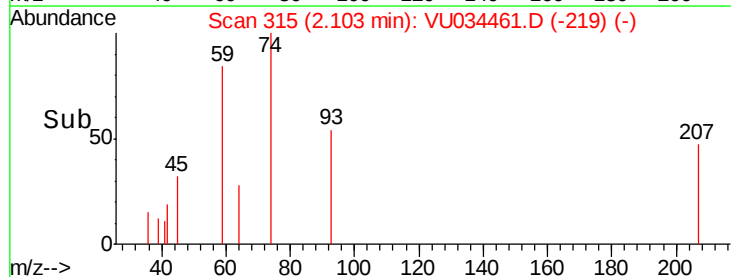
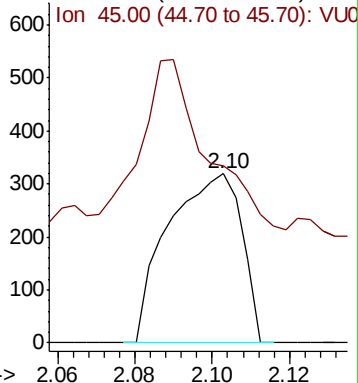
Ion Ratio Lower Upper

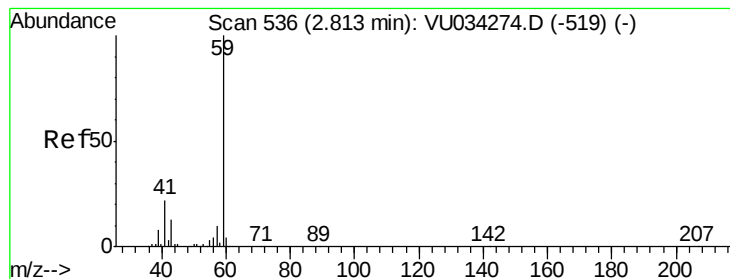
74 100

45 93.8 48.2 144.6



Abundance Ion 74.00 (73.70 to 74.70): VU034461.D (-219) (-)





#11

Tert butyl alcohol

Concen: 9.675 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.01 min

Lab File: VU034461.D

Acq: 10 Sep 2019 19:03

Instrument :

MSVOA_U

ClientSampleId :

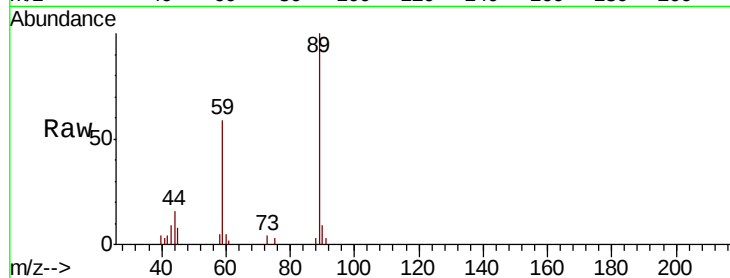
PAR-E4-(0)

Tgt Ion: 59 Resp: 7275

Ion Ratio Lower Upper

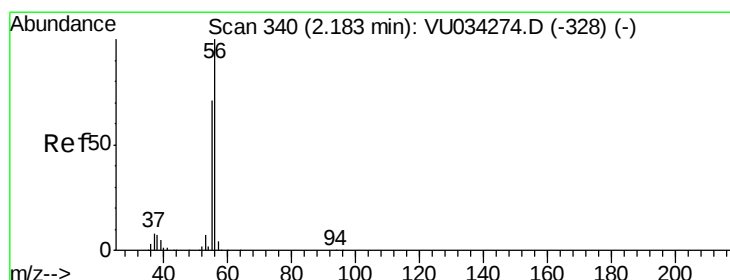
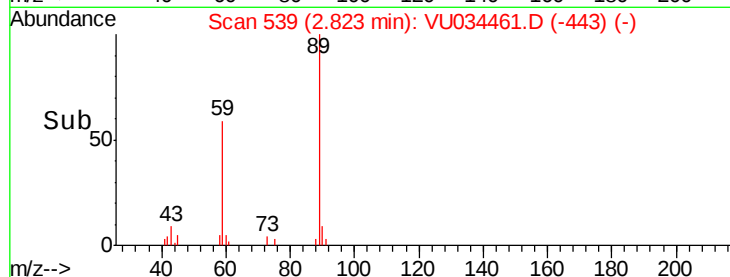
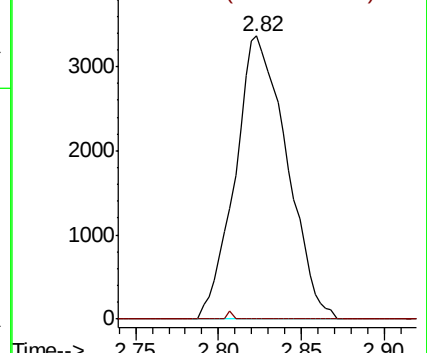
59 100

57 0.3 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034461.D (-443) (-)

Ion 57.00 (56.70 to 57.70): VU034461.D (-443) (-)



#13

Acrolein

Concen: 0.244 ug/l

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VU034461.D

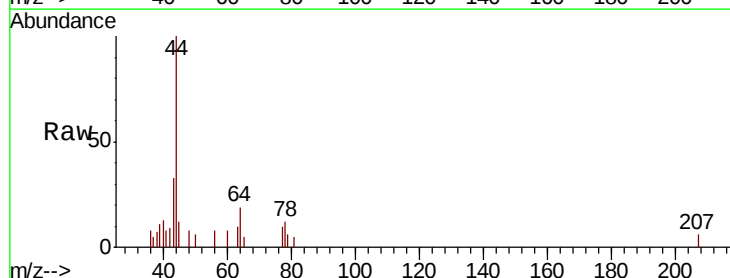
Acq: 10 Sep 2019 19:03

Tgt Ion: 56 Resp: 154

Ion Ratio Lower Upper

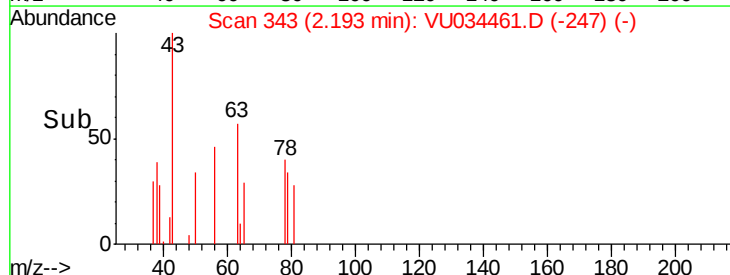
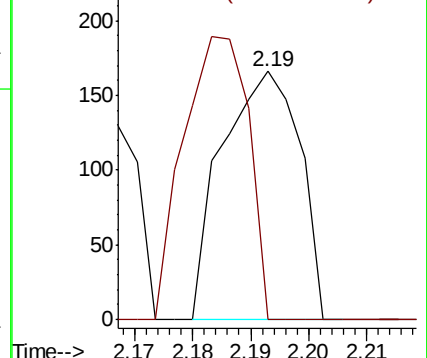
56 100

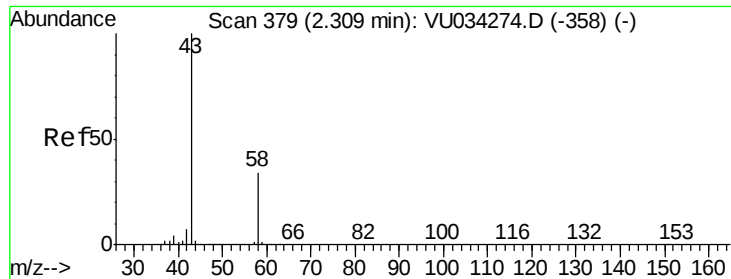
55 95.5 57.4 86.2#



Abundance Ion 56.00 (55.70 to 56.70): VU034461.D (-247) (-)

Ion 55.00 (54.70 to 55.70): VU034461.D (-247) (-)





#16

Acetone

Concen: 5.942 ug/l

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VU034461.D

Acq: 10 Sep 2019 19:03

Instrument :

MSVOA_U

ClientSampleId :

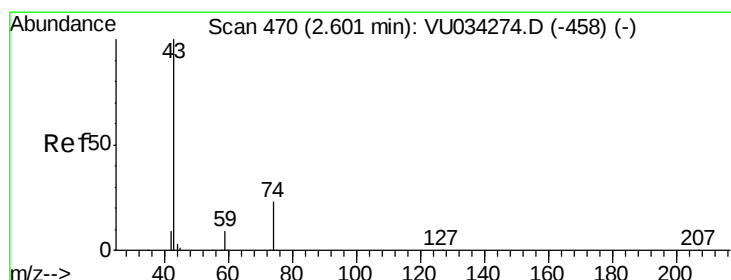
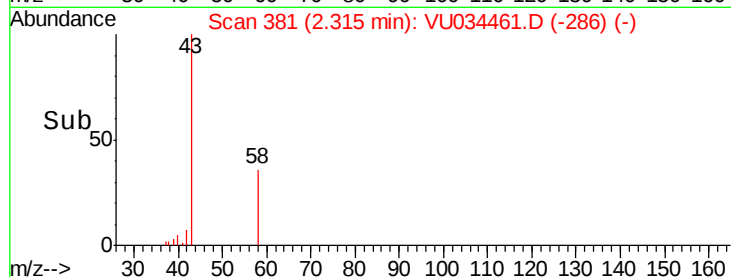
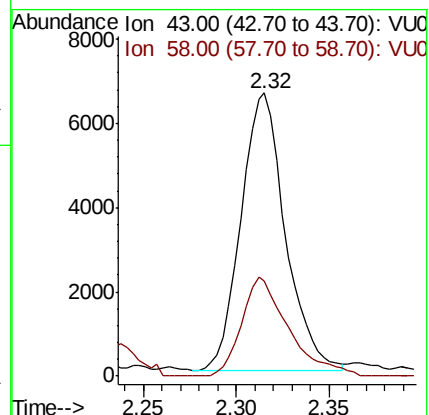
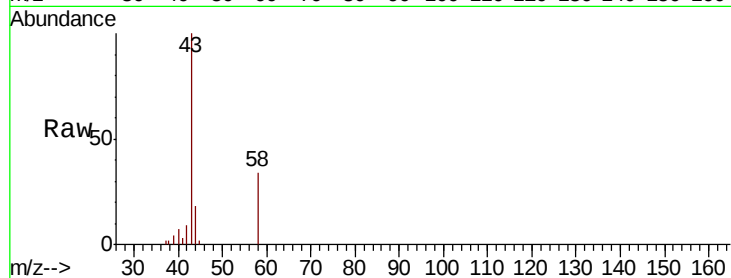
PAR-E4-(0)

Tgt Ion: 43 Resp: 10945

Ion Ratio Lower Upper

43 100

58 34.3 27.6 41.4



#18

Methyl Acetate

Concen: 0.803 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034461.D

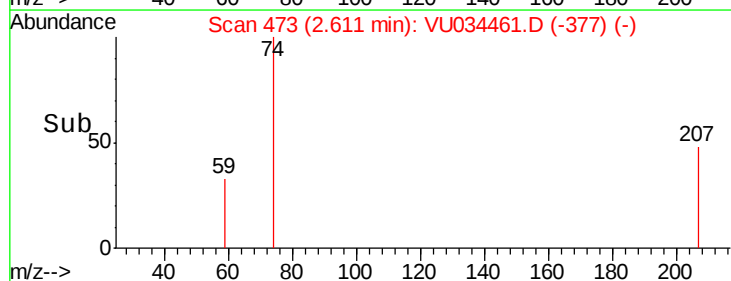
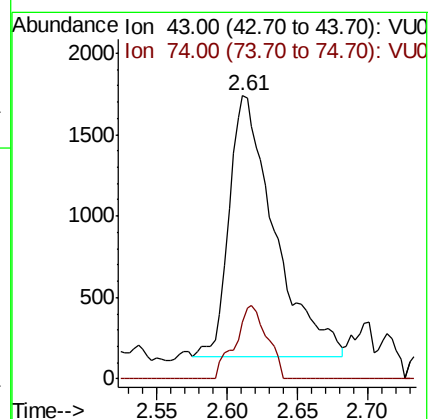
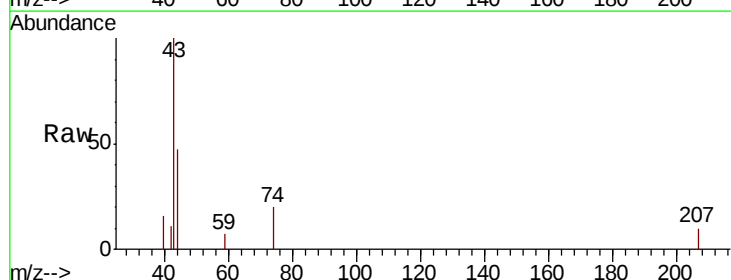
Acq: 10 Sep 2019 19:03

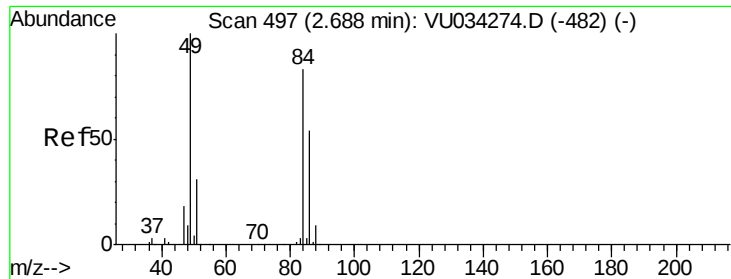
Tgt Ion: 43 Resp: 3599

Ion Ratio Lower Upper

43 100

74 19.8 18.9 28.3

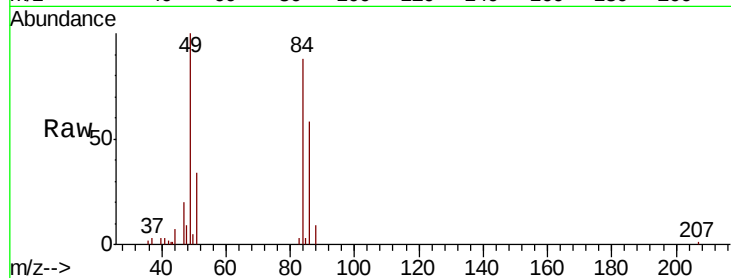




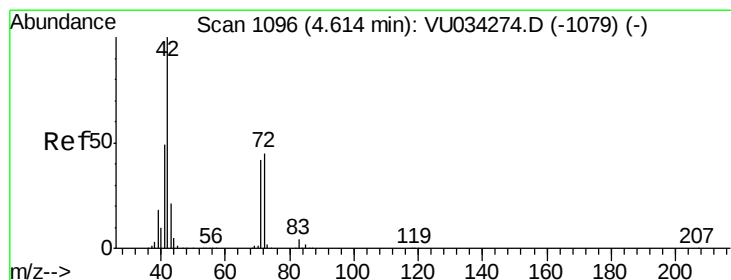
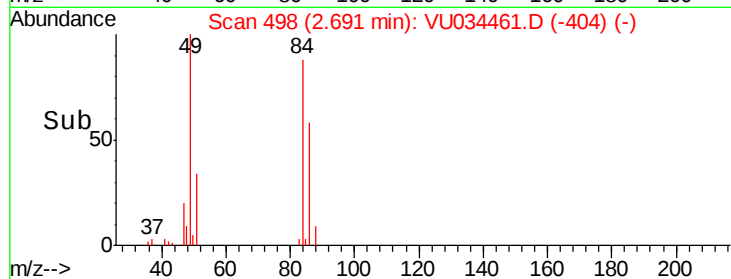
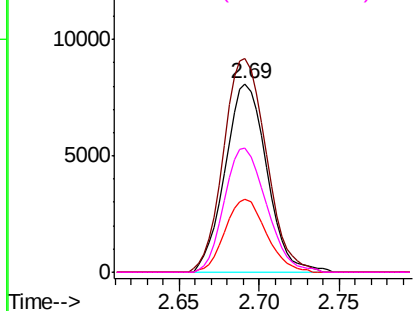
#20
Methylene Chloride
Concen: 4.410 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.00 min
Lab File: VU034461.D
Acq: 10 Sep 2019 19:03

Instrument :
MSVOA_U
ClientSampleId :
PAR-E4-(0)

Tgt Ion:	84	Resp:	14405
Ion	Ratio	Lower	Upper
84	100		
49	113.2	96.0	144.0
51	38.8	30.0	45.0
86	66.0	51.4	77.0

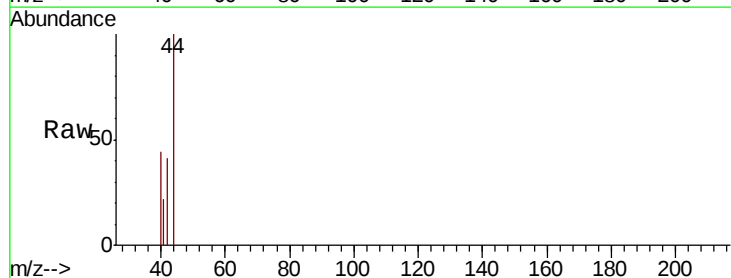


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

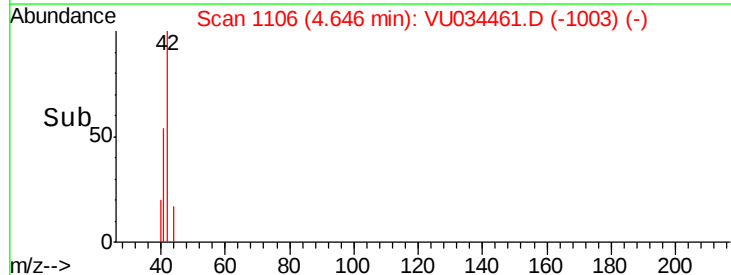
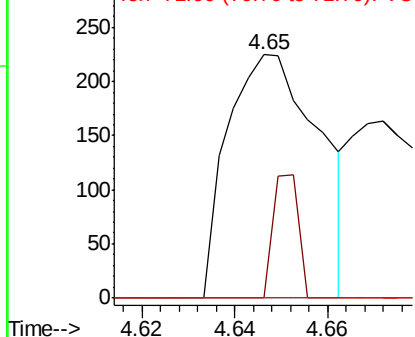


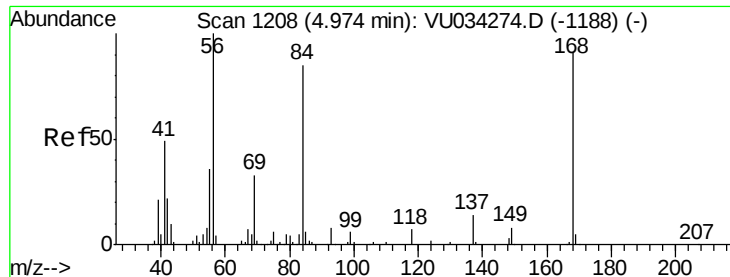
#29
Tetrahydrofuran
Concen: 0.206 ug/l
RT: 4.65 min Scan# 1106
Delta R.T. 0.03 min
Lab File: VU034461.D
Acq: 10 Sep 2019 19:03

Tgt Ion:	42	Resp:	308
Ion	Ratio	Lower	Upper
42	100		
72	14.3	36.6	54.8#
71	0.0	34.3	51.5#



Abundance Ion 42.00 (41.70 to 42.70): VU0
Ion 72.00 (71.70 to 72.70): VU0
Ion 71.00 (70.70 to 71.70): VU0

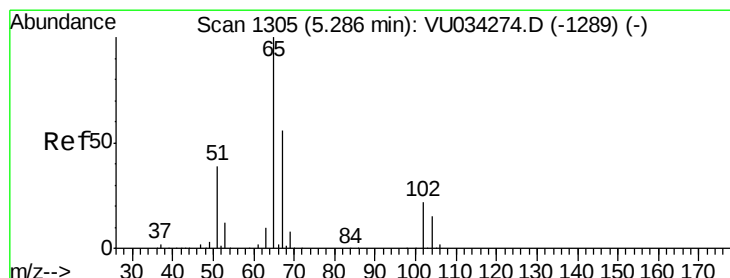
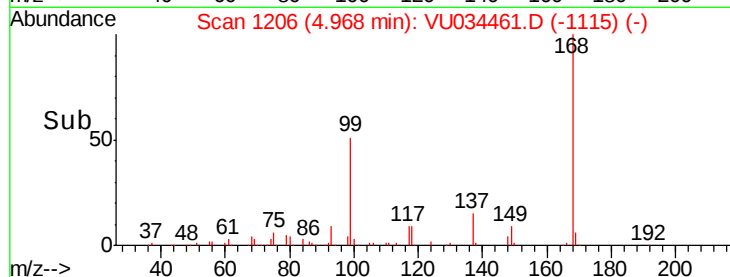
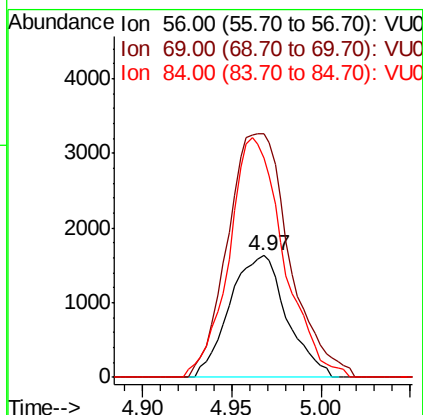
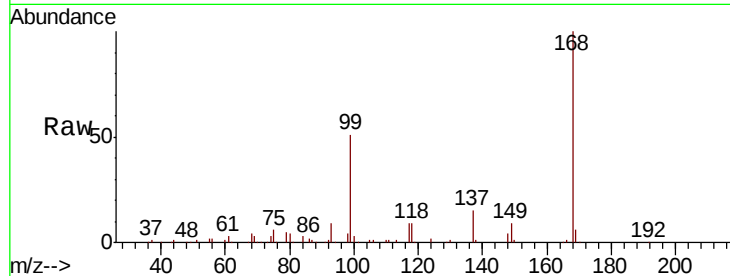




#31
Cyclohexane
Concen: 0.870 ug/l
RT: 4.97 min Scan# 1206
Delta R.T. -0.01 min
Lab File: VU034461.D
Acq: 10 Sep 2019 19:03

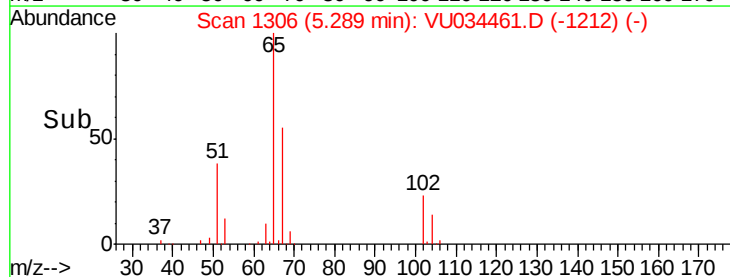
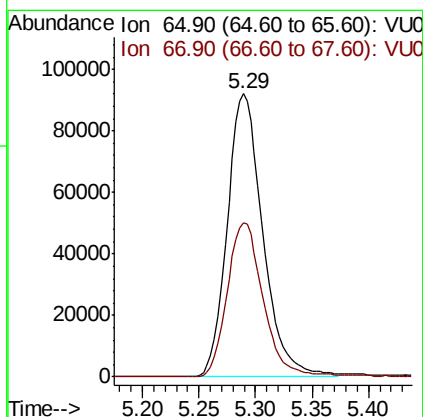
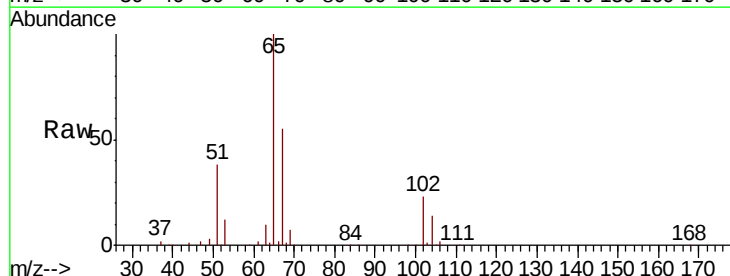
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MSVOA_U
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PAR-E4-(0)

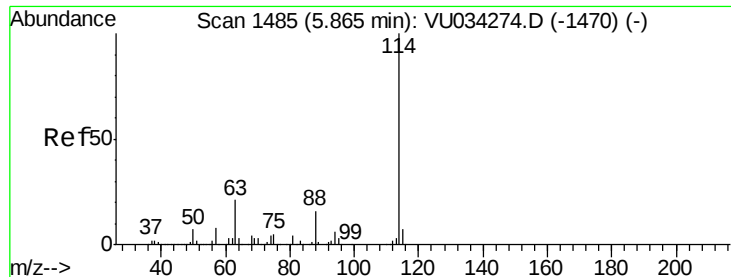
Tgt Ion: 56 Resp: 3629
Ion Ratio Lower Upper
56 100
69 200.1 26.7 40.1#
84 174.8 68.2 102.4#



#33
1,2-Dichloroethane-d4
Concen: 56.773 ug/l
RT: 5.29 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU034461.D
Acq: 10 Sep 2019 19:03

Tgt Ion: 65 Resp: 202076
Ion Ratio Lower Upper
65 100
67 55.4 0.0 112.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034461.D

Acq: 10 Sep 2019 19:03

Instrument :

MSVOA_U

ClientSampleId :

PAR-E4-(0)

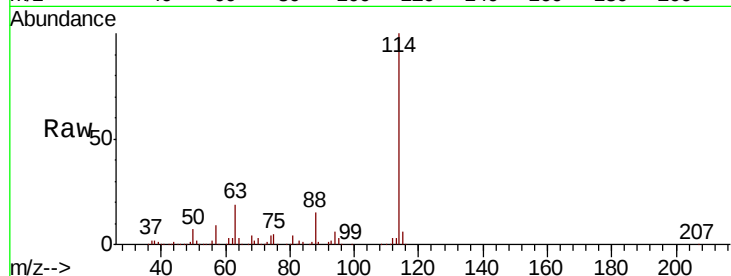
Tgt Ion:114 Resp: 367734

Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.4

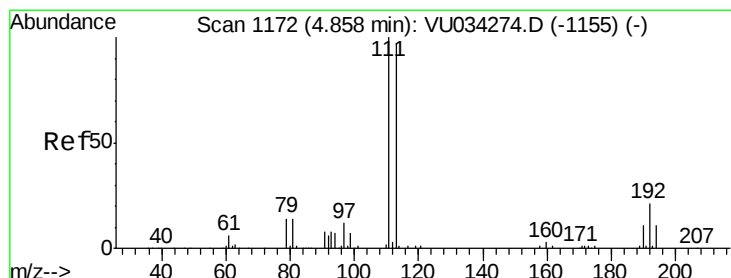
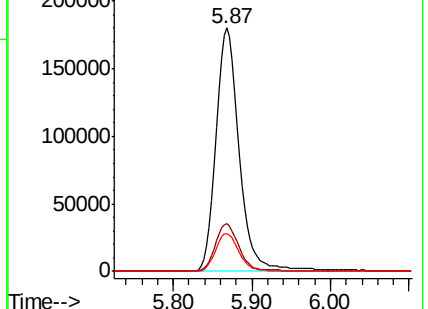
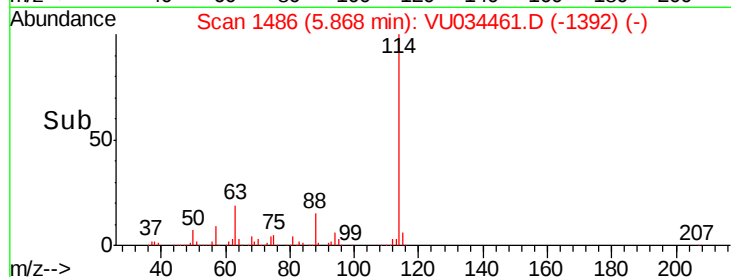
88 15.4 0.0 32.4



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: 51.854 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034461.D

Acq: 10 Sep 2019 19:03

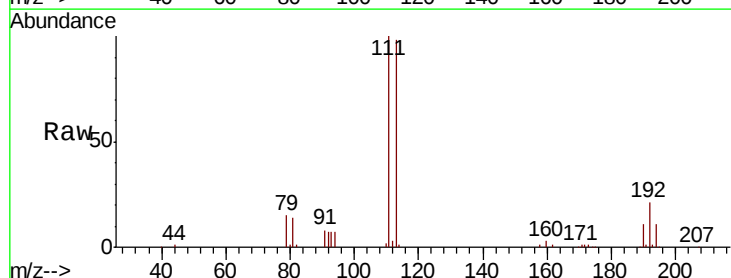
Tgt Ion:113 Resp: 177433

Ion Ratio Lower Upper

113 100

111 101.8 81.5 122.3

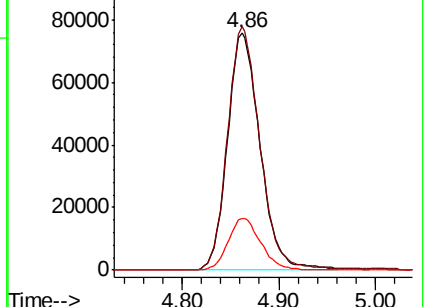
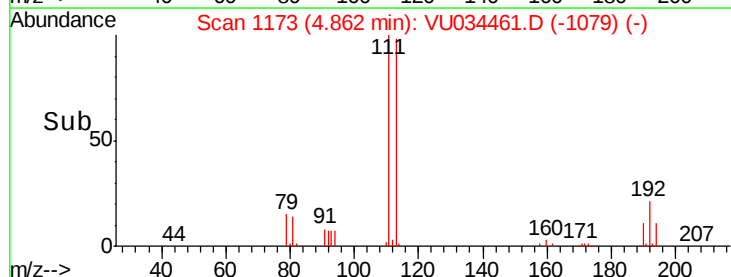
192 22.0 17.8 26.8

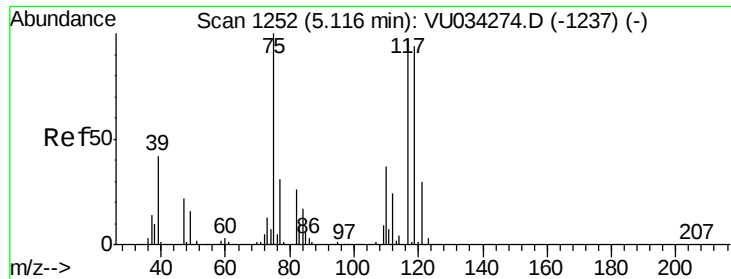


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

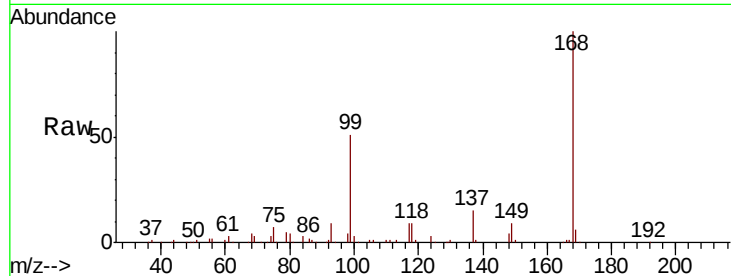




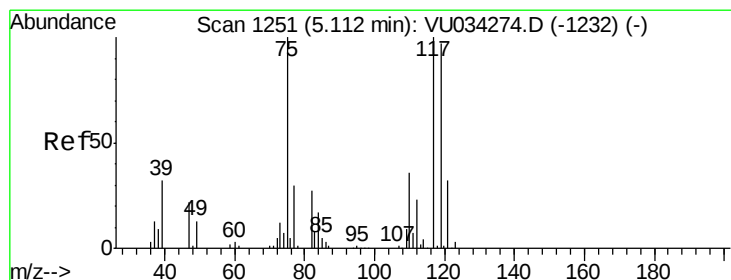
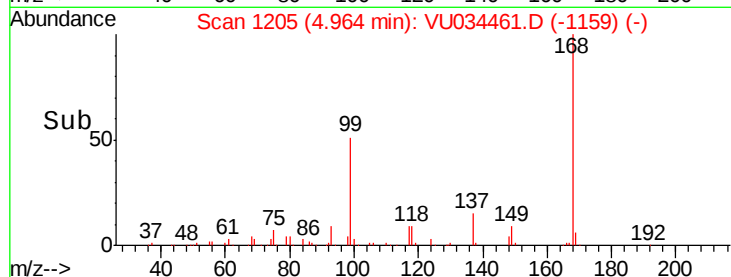
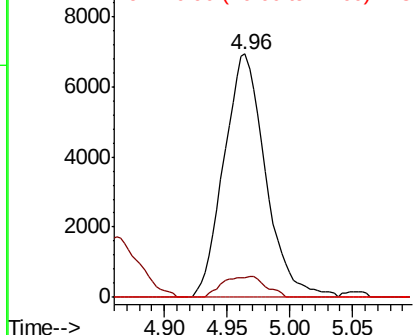
#36
 1,1-Dichloropropene
 Concen: 4.012 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034461.D
 Acq: 10 Sep 2019 19:03

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-E4-(0)

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.3	54.9#
77	0.0	24.9	37.3#

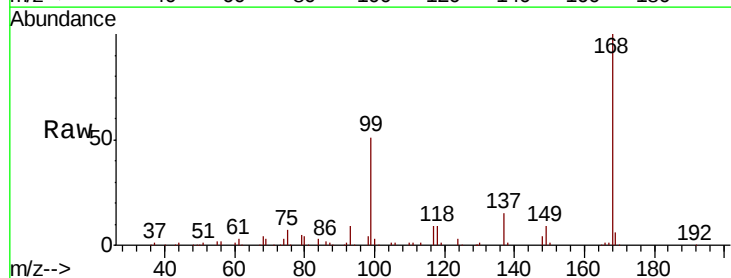


Abundance Ion 74.90 (74.60 to 75.60): VU034461.D (-1159) (-)
 Ion 109.90 (109.60 to 110.60): VU034461.D (-1159) (-)
 Ion 76.90 (76.60 to 77.60): VU034461.D (-1159) (-)

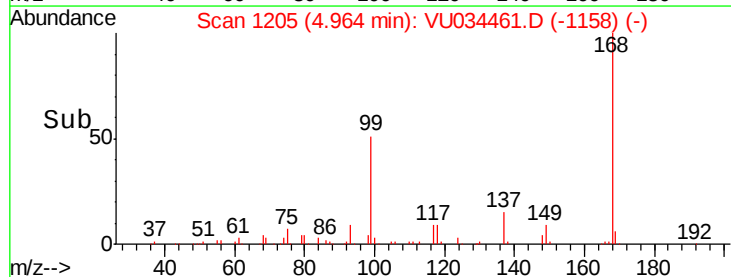
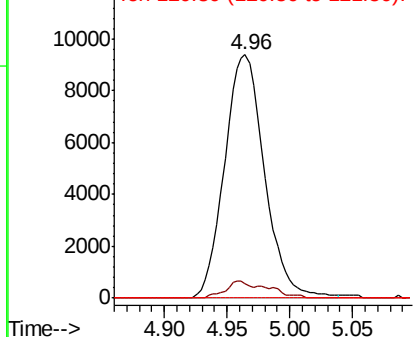


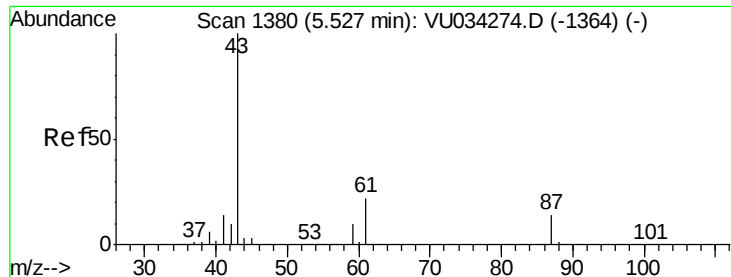
#38
 Carbon Tetrachloride
 Concen: 4.880 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034461.D
 Acq: 10 Sep 2019 19:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	77.8	116.6#
121	0.0	25.2	37.8#



Abundance Ion 116.80 (116.50 to 117.50): VU034461.D (-1158) (-)
 Ion 118.80 (118.50 to 119.50): VU034461.D (-1158) (-)
 Ion 120.80 (120.50 to 121.50): VU034461.D (-1158) (-)





#43

Isopropyl Acetate

Concen: 8.683 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034461.D

Acq: 10 Sep 2019 19:03

Instrument :

MSVOA_U

ClientSampleId :

PAR-E4-(0)

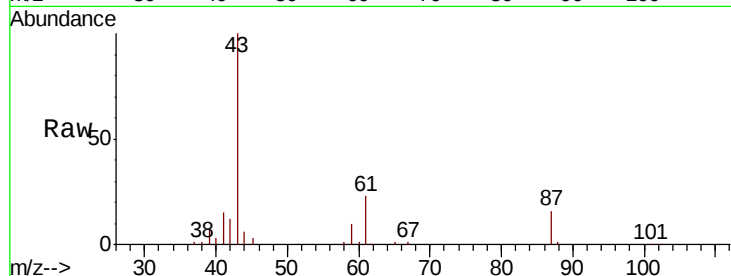
Tgt Ion: 43 Resp: 63873

Ion Ratio Lower Upper

43 100

61 21.7 17.1 25.7

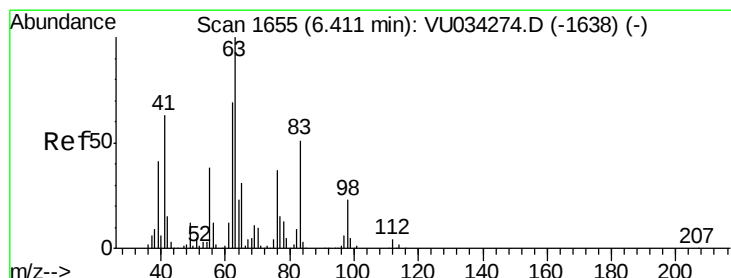
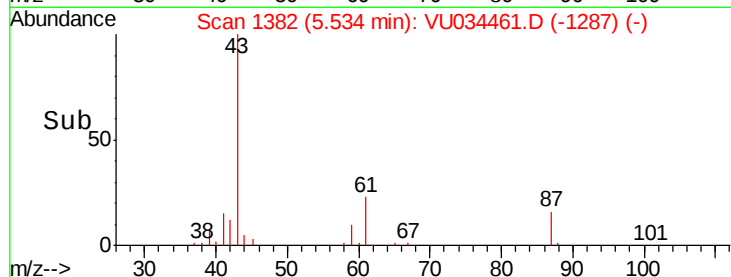
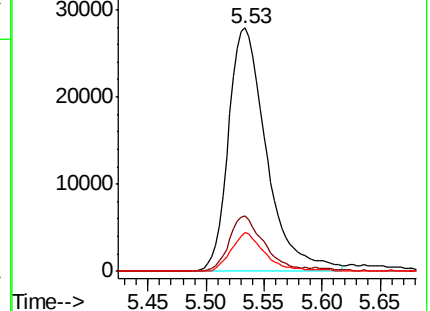
87 14.1 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VU034461.D (-1382) (-)

Ion 61.00 (60.70 to 61.70): VU034461.D (-1382) (-)

Ion 87.00 (86.70 to 87.70): VU034461.D (-1382) (-)



#45

1,2-Dichloropropane

Concen: 0.399 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.27 min

Lab File: VU034461.D

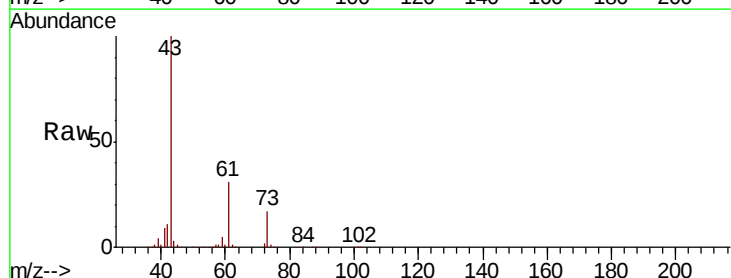
Acq: 10 Sep 2019 19:03

Tgt Ion: 63 Resp: 1502

Ion Ratio Lower Upper

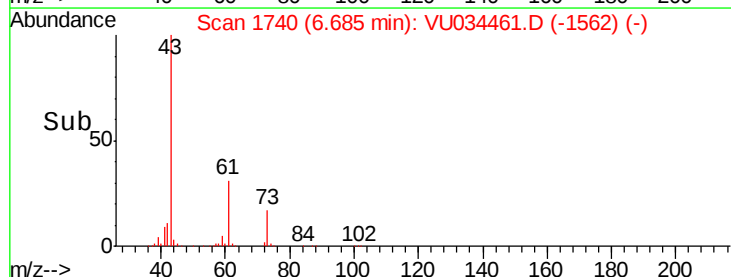
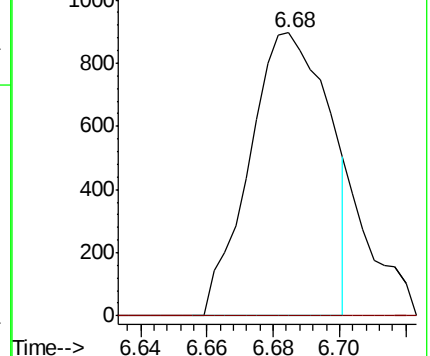
63 100

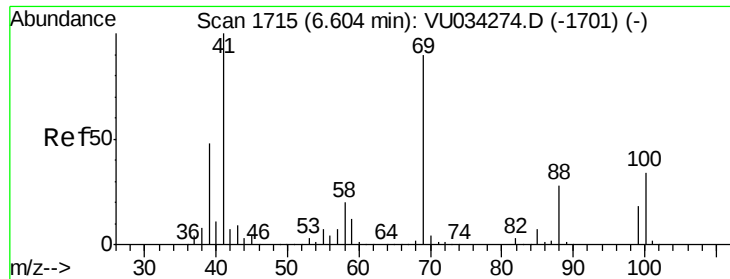
65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VU034461.D (-1740) (-)

Ion 64.90 (64.60 to 65.60): VU034461.D (-1740) (-)

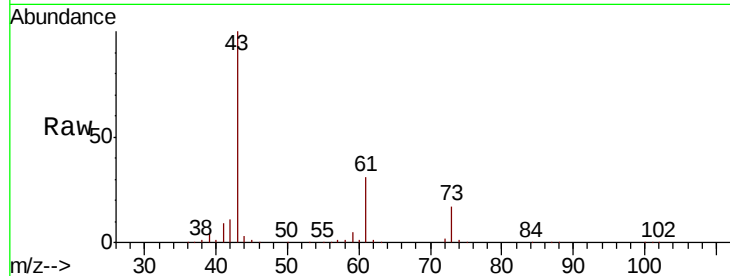




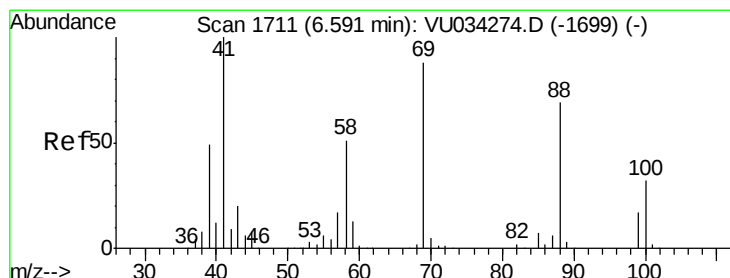
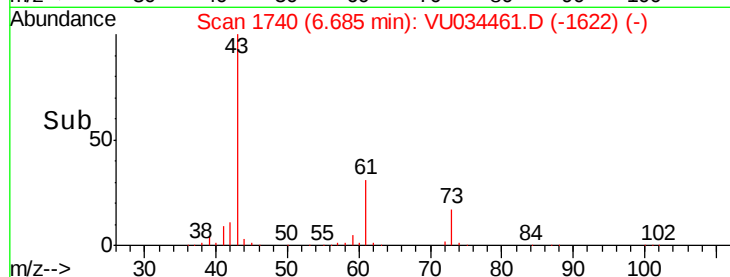
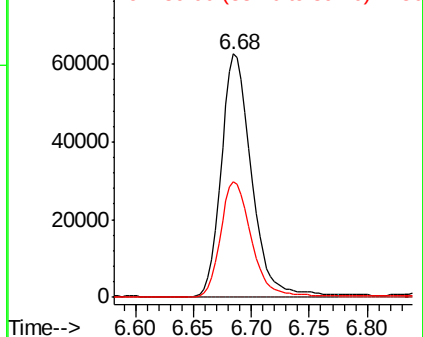
#48
Methyl methacrylate
Concen: 32.794 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.08 min
Lab File: VU034461.D
Acq: 10 Sep 2019 19:03

Instrument :
MSVOA_U
ClientSampleId :
PAR-E4-(0)

Tgt Ion: 41 Resp: 114571
Ion Ratio Lower Upper
41 100
69 0.0 72.8 109.2#
39 48.8 38.6 58.0

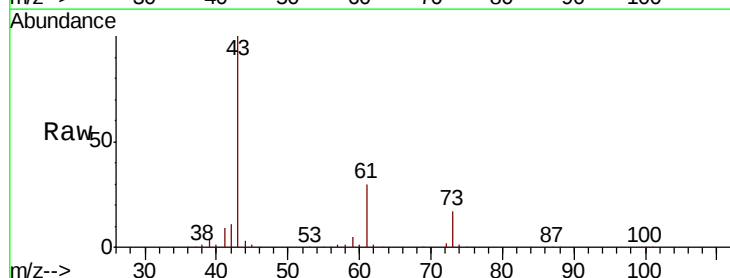


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

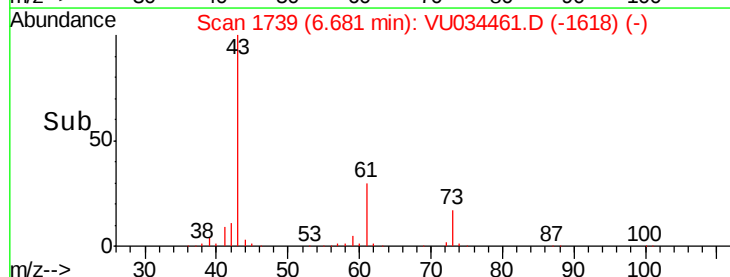
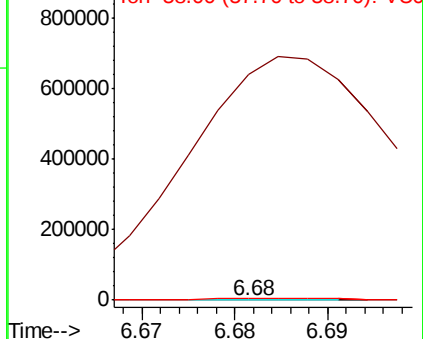


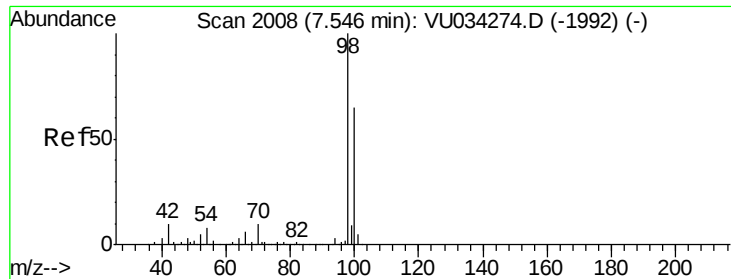
#49
1,4-Dioxane
Concen: 0.537 ug/l
RT: 6.68 min Scan# 1739
Delta R.T. 0.09 min
Lab File: VU034461.D
Acq: 10 Sep 2019 19:03

Tgt Ion: 88 Resp: 41
Ion Ratio Lower Upper
88 100
43 3064380.5 23.8 35.6#
58 18158.5 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

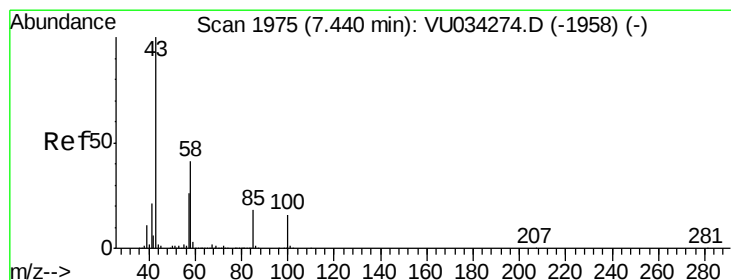
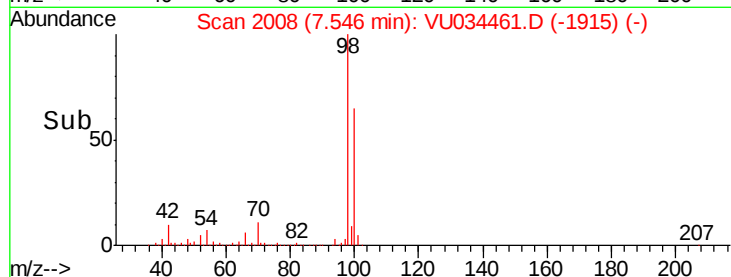
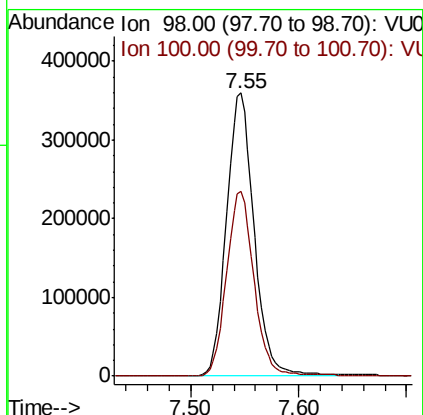
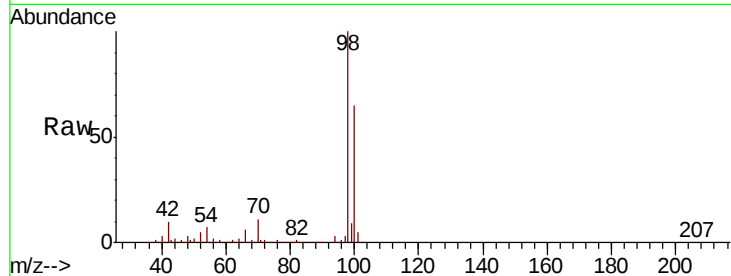




#50
Toluene-d8
Concen: 50.040 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034461.D
Acq: 10 Sep 2019 19:03

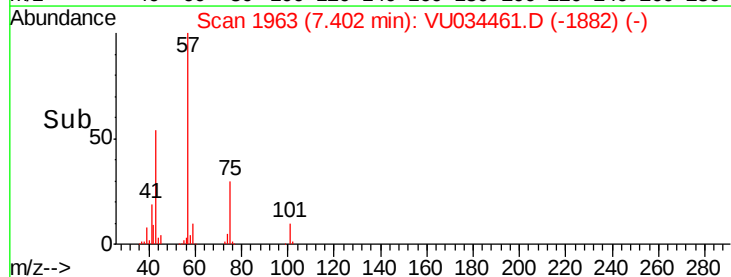
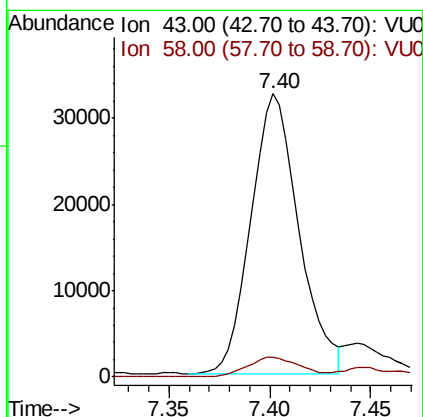
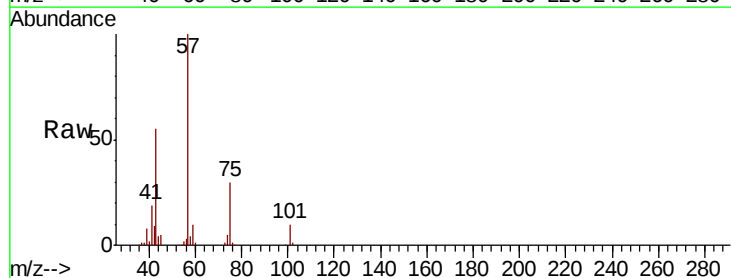
Instrument :
MSVOA_U
ClientSampleId :
PAR-E4-(0)

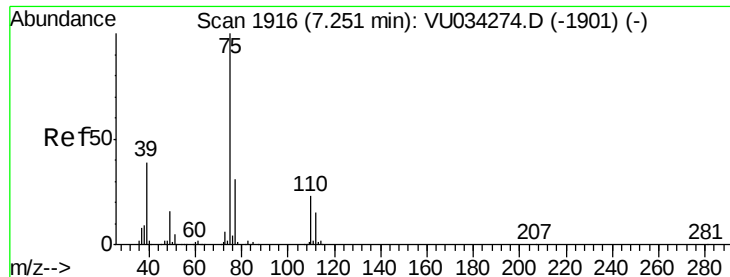
Tgt Ion: 98 Resp: 643297
Ion Ratio Lower Upper
98 100
100 65.1 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 10.578 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034461.D
Acq: 10 Sep 2019 19:03

Tgt Ion: 43 Resp: 53860
Ion Ratio Lower Upper
43 100
58 7.6 33.0 49.4#



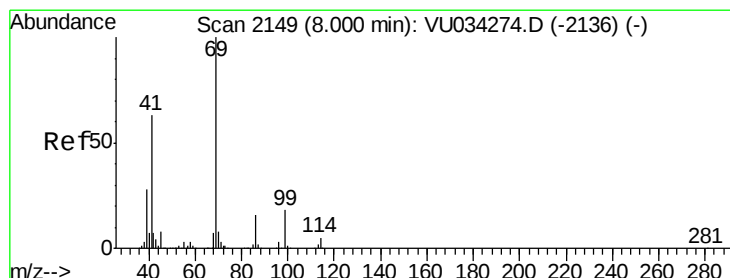
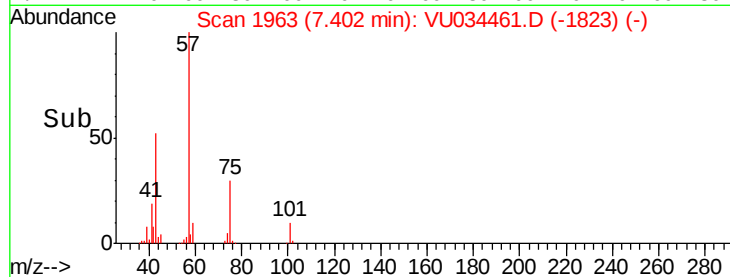
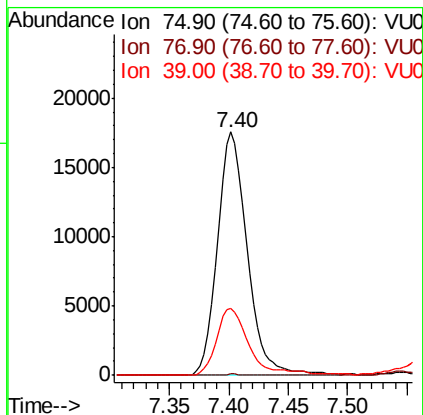
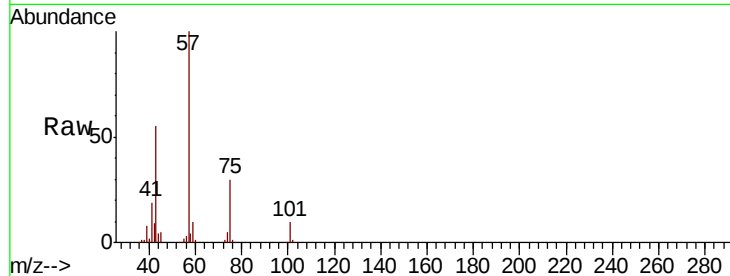


#54

cis-1,3-Dichloropropene
 Concen: 5.514 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034461.D
 Acq: 10 Sep 2019 19:03

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-E4-(0)

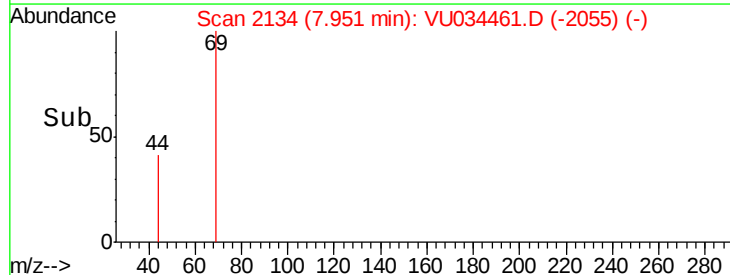
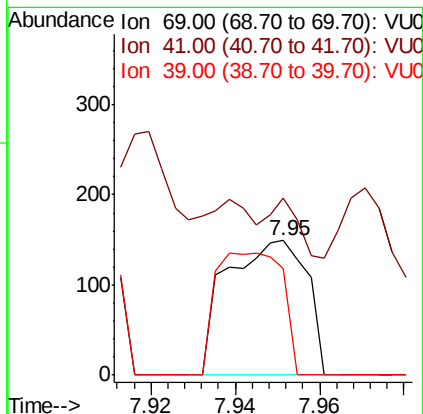
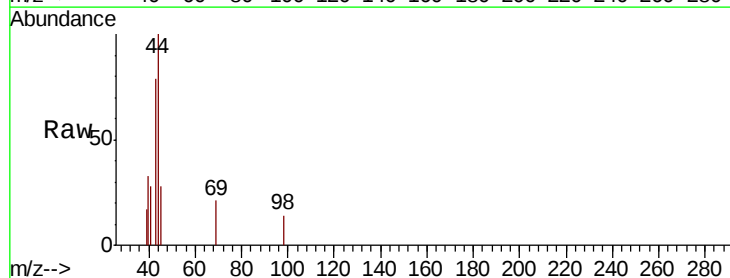
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.7	25.1	37.7#
39	27.3	31.2	46.8#

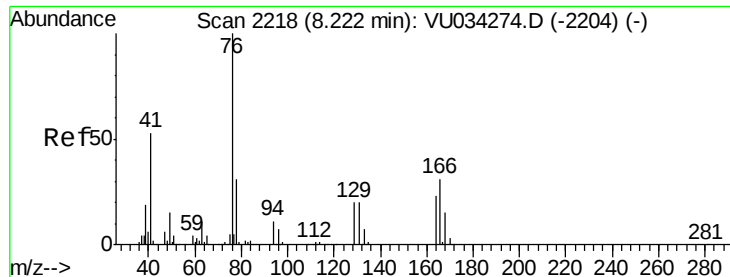


#56

Ethyl methacrylate
 Concen: 3.109 ug/l
 RT: 7.95 min Scan# 2134
 Delta R.T. -0.05 min
 Lab File: VU034461.D
 Acq: 10 Sep 2019 19:03

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

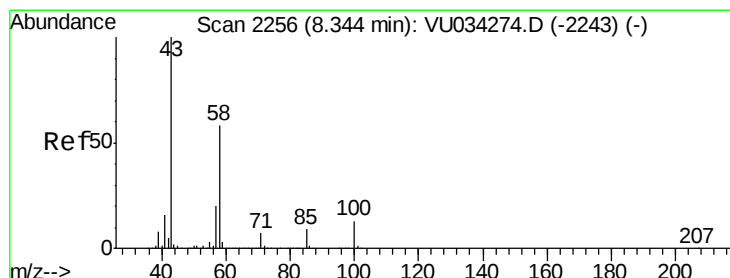
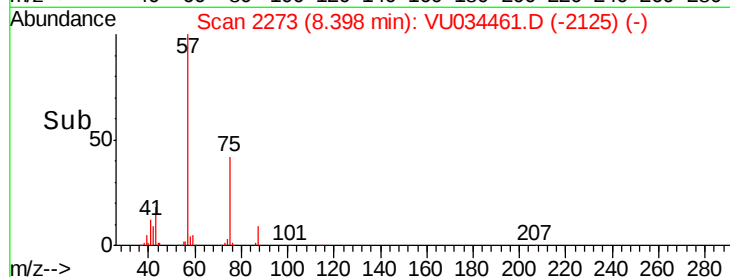
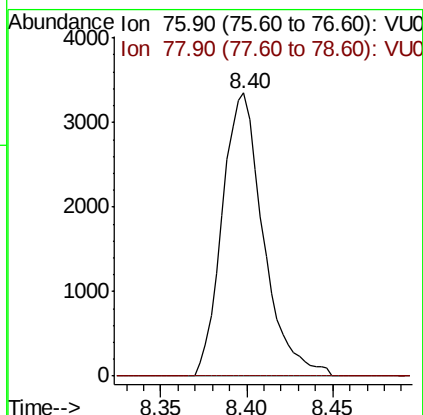
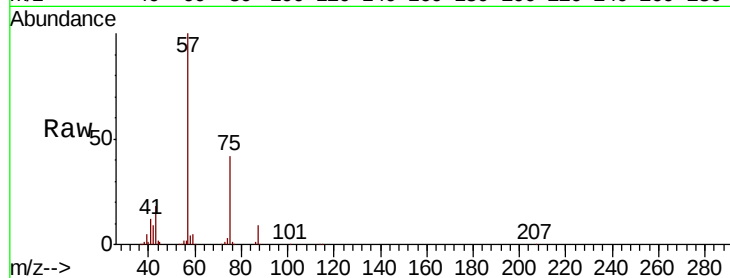




#57
 1,3-Dichloropropane
 Concen: 0.934 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034461.D
 Acq: 10 Sep 2019 19:03

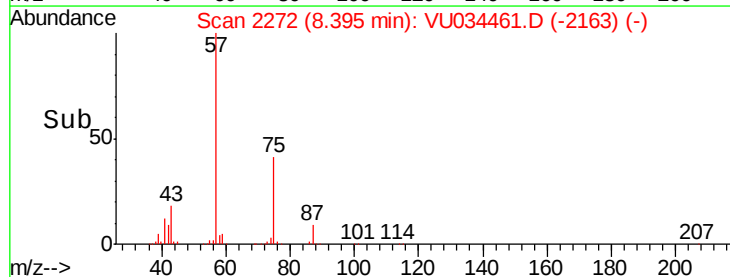
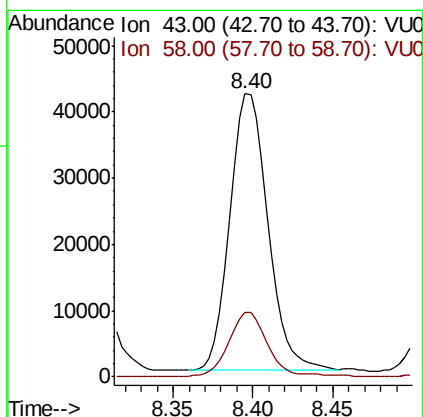
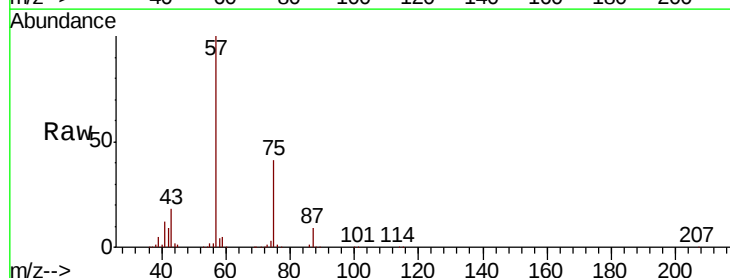
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-E4-(0)

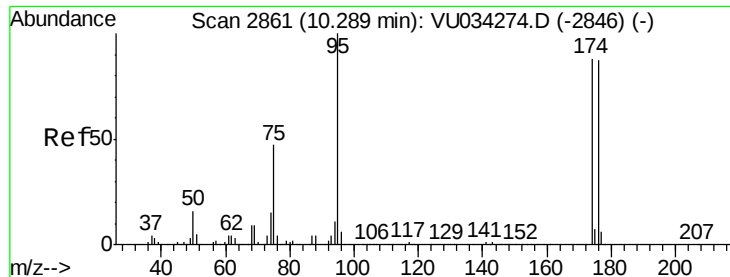
Tgt Ion: 76 Resp: 5576
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 17.747 ug/l
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.05 min
 Lab File: VU034461.D
 Acq: 10 Sep 2019 19:03

Tgt Ion: 43 Resp: 67503
 Ion Ratio Lower Upper
 43 100
 58 24.1 28.8 86.5#

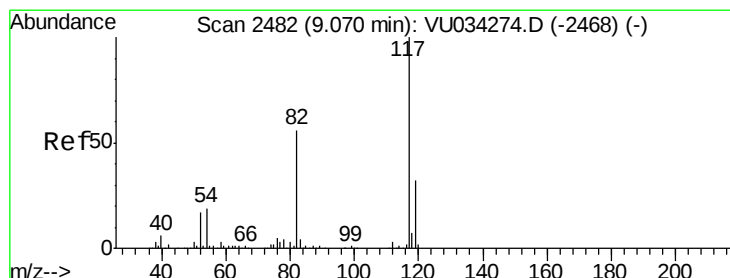
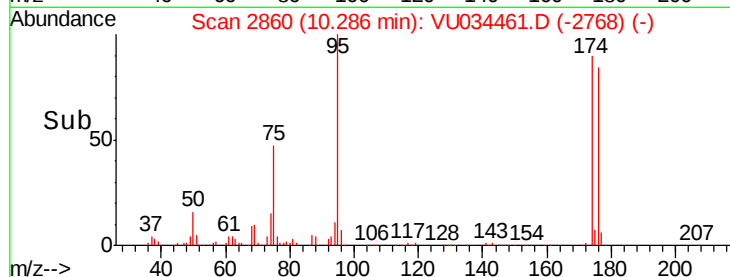
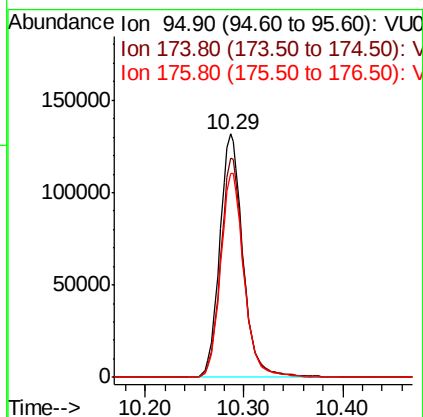
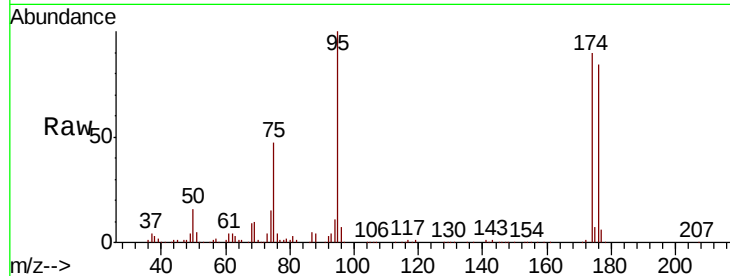




#62
4-Bromofluorobenzene
Concen: 43.762 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.00 min
Lab File: VU034461.D
Acq: 10 Sep 2019 19:03

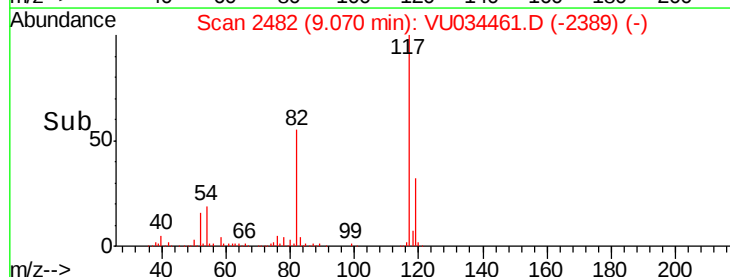
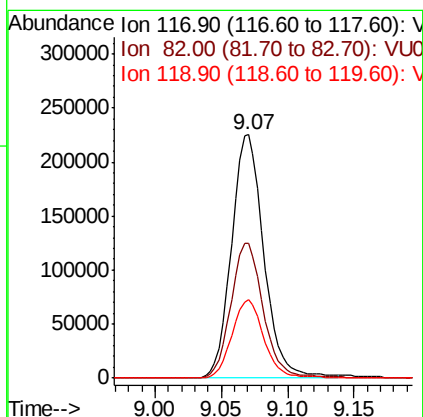
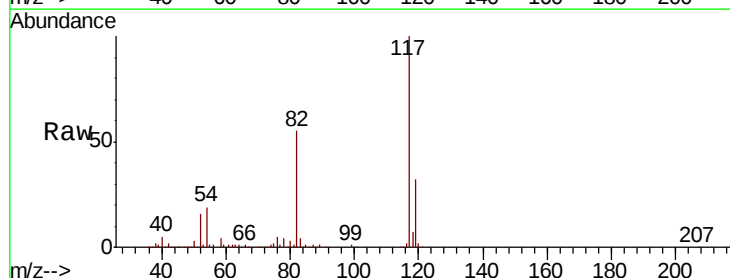
Instrument :
MSVOA_U
ClientSampleId :
PAR-E4-(0)

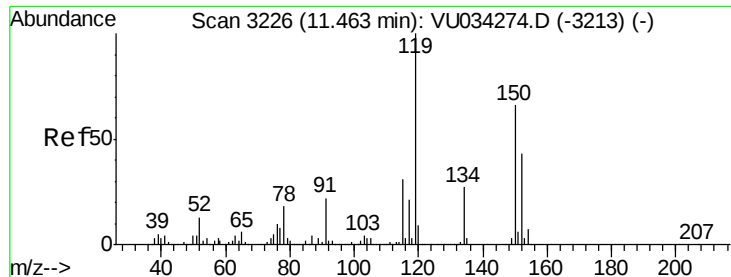
Tgt Ion: 95 Resp: 217214
Ion Ratio Lower Upper
95 100
174 90.0 0.0 175.2
176 84.3 0.0 168.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034461.D
Acq: 10 Sep 2019 19:03

Tgt Ion: 117 Resp: 382119
Ion Ratio Lower Upper
117 100
82 55.4 44.6 67.0
119 32.1 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: VU034461.D

Acq: 10 Sep 2019 19:03

Instrument :

MSVOA_U

ClientSampleId :

PAR-E4-(0)

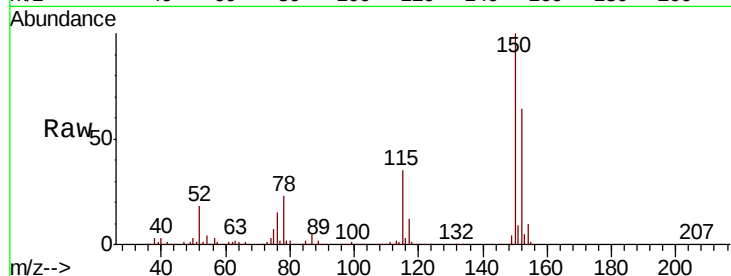
Tgt Ion:152 Resp: 208519

Ion Ratio Lower Upper

152 100

115 55.3 39.1 117.3

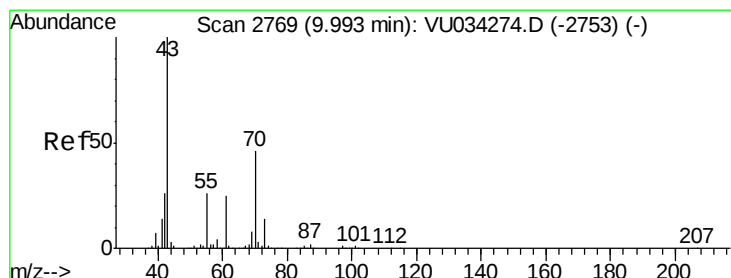
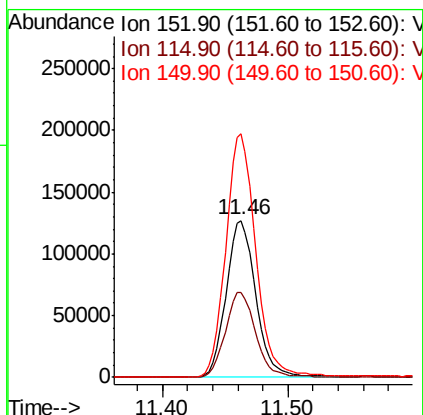
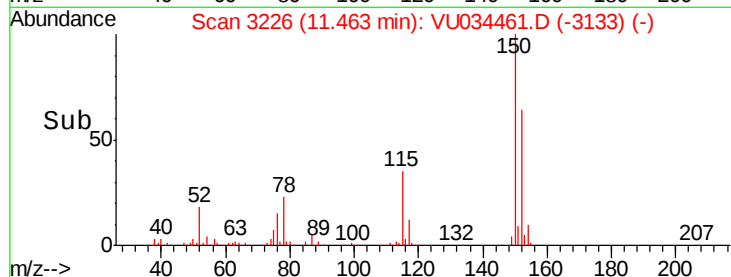
150 157.3 0.0 345.4



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



#74

N-ethyl acetate

Concen: 0.286 ug/l

RT: 9.93 min Scan# 2748

Delta R.T. -0.07 min

Lab File: VU034461.D

Acq: 10 Sep 2019 19:03

Tgt Ion: 43 Resp: 1560

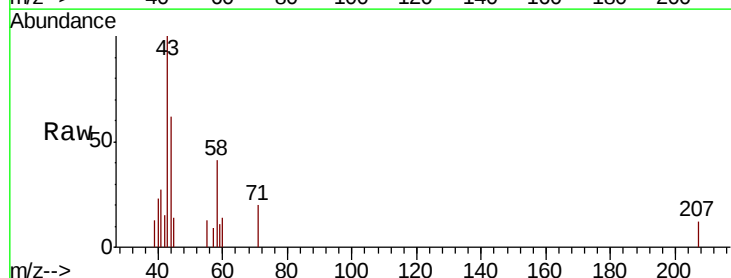
Ion Ratio Lower Upper

43 100

70 0.0 36.4 54.6#

55 10.6 21.2 31.8#

61 0.0 20.4 30.6#

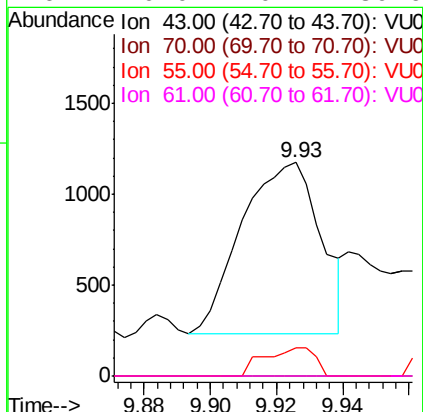
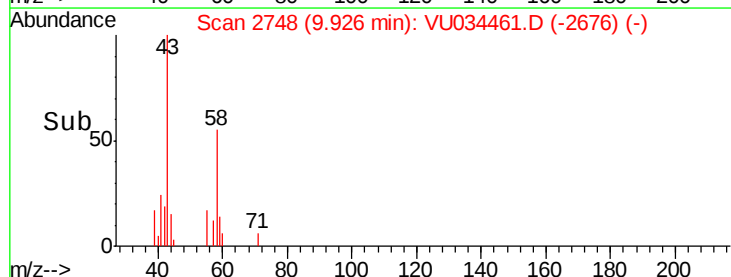


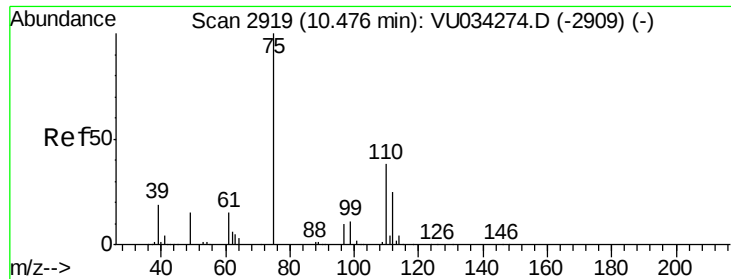
Abundance Ion 43.00 (42.70 to 43.70): VU0

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

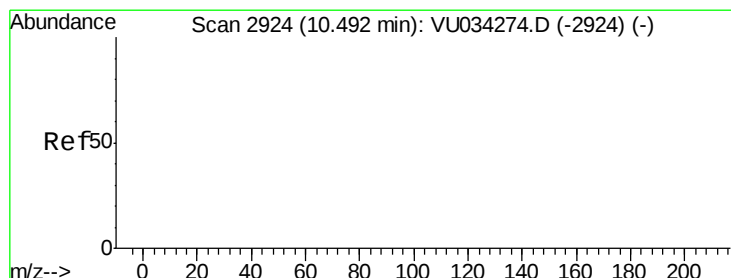
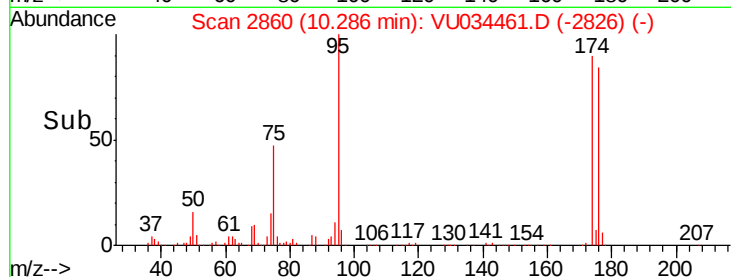
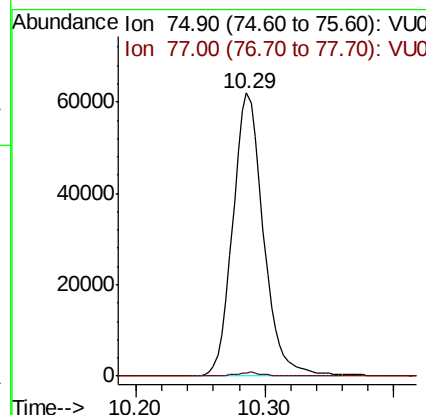
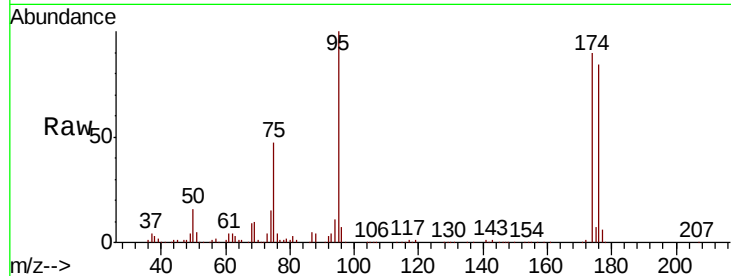




#76
 1,2,3-Trichloropropane
 Concen: 22.458 ug/l
 RT: 10.29 min Scan# 2860
 Delta R.T. -0.19 min
 Lab File: VU034461.D
 Acq: 10 Sep 2019 19:03

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-E4-(0)

Tgt Ion: 75 Resp: 102221
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.8 62.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.526 ug/l
 RT: 10.29 min Scan# 2860
 Delta R.T. -0.21 min
 Lab File: VU034461.D
 Acq: 10 Sep 2019 19:03

Tgt Ion: 75 Resp: 102221
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0

