

Data File : VU034305.D
Acq On : 05 Sep 2019 23:41
Operator : JC/SP
Sample : K4579-22
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A1-(3.5)

Quant Time: Sep 06 07:44:51 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	439542	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	692066	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	681897	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	343052	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	279287	42.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.00%	
35) Dibromofluoromethane	4.86	113	240233	37.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.62%	
50) Toluene-d8	7.55	98	972029	40.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.36%	
62) 4-Bromofluorobenzene	10.29	95	347624	37.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.42%	

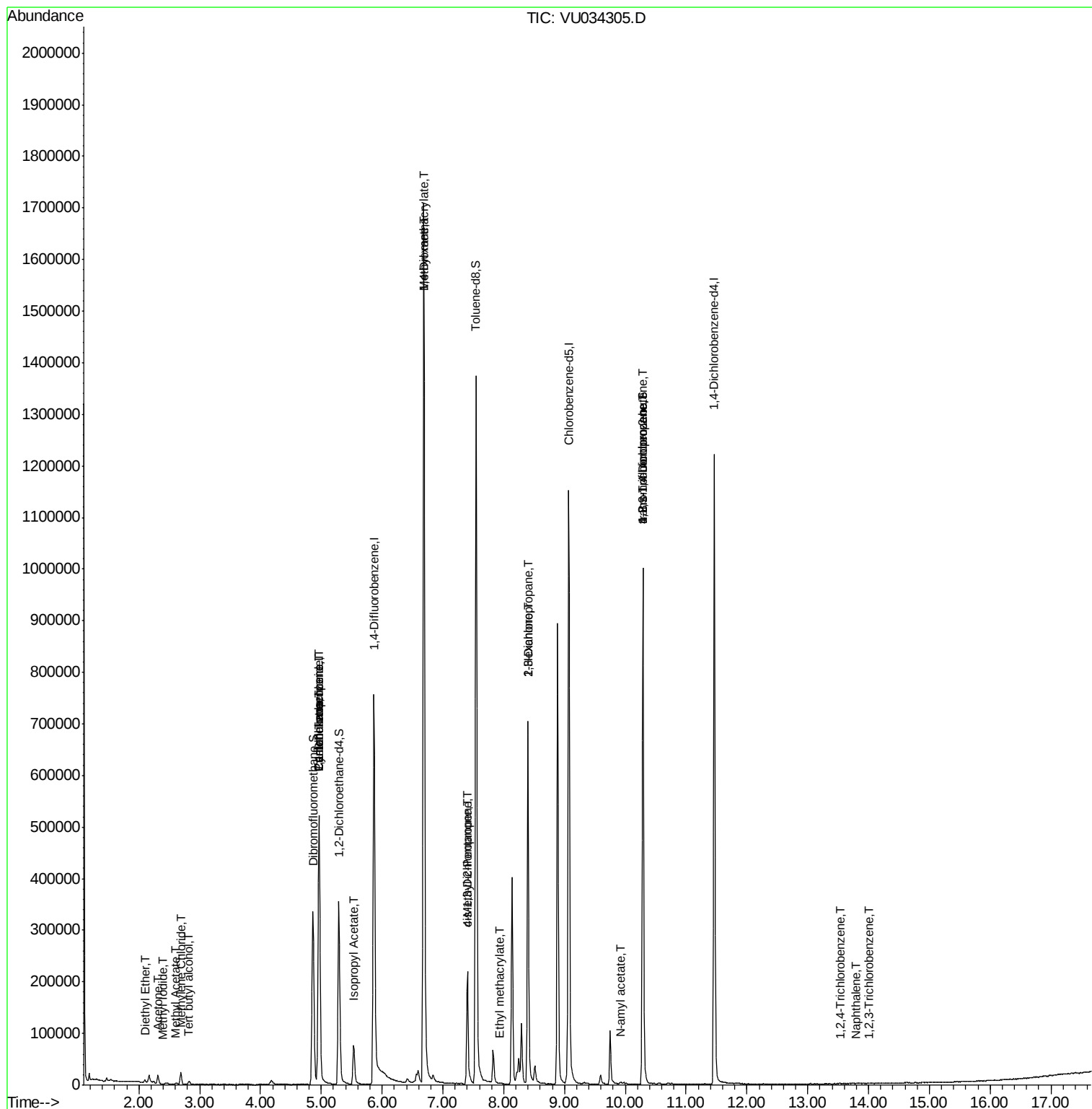
Target Compounds				Qvalue		
3) Chloromethane	1.32	50	372	Below Cal	#	70
5) Bromomethane	1.63	94	302	Below Cal	#	66
6) Chloroethane	1.73	64	133	Below Cal	#	43
8) Diethyl Ether	2.10	74	1415	0.419	ug/l	74
10) Methyl Iodide	2.41	142	64	3.859	ug/l #	43
11) Tert butyl alcohol	2.82	59	4518	3.216	ug/l #	73
16) Acetone	2.31	43	18767	5.453	ug/l	97
18) Methyl Acetate	2.61	43	4406	0.526	ug/l #	85
20) Methylene Chloride	2.69	84	10752	1.520	ug/l	97
31) Cyclohexane	4.96	56	6998	0.898	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	29812	3.972	ug/l #	48
38) Carbon Tetrachloride	4.96	117	37996	4.741	ug/l #	16
43) Isopropyl Acetate	5.53	43	92275	6.666	ug/l	98
48) Methyl methacrylate	6.68	41	146007	22.206	ug/l #	37
49) 1,4-Dioxane	6.69	88	119	0.829	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	75912	7.922	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	42429	4.077	ug/l #	62
56) Ethyl methacrylate	7.93	69	129	3.088	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	7548	0.672	ug/l #	43
59) 2-Hexanone	8.40	43	92645	12.942	ug/l #	54
74) N-amyl acetate	9.92	43	3266	0.363	ug/l #	42
76) 1,2,3-Trichloropropane	10.29	75	161142	21.519	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	161142	72.368	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.54	180	41	3.456	ug/l #	12
95) Naphthalene	13.79	128	77	3.969	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.00	180	21	2.641	ug/l #	12

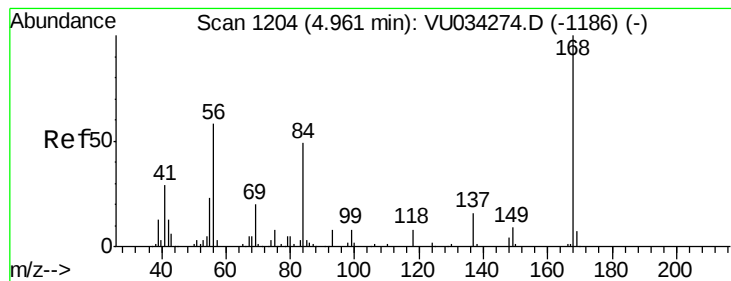
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034305.D

Acq: 05 Sep 2019 23:41

Instrument :

MSVOA_U

ClientSampleId :

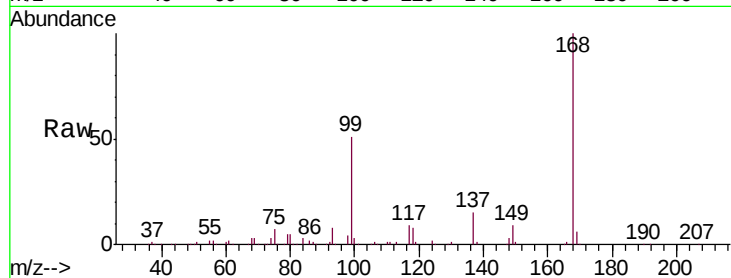
PAR-12-A1-(3.5)

Tgt Ion:168 Resp: 439542

Ion Ratio Lower Upper

168 100

99 51.4 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

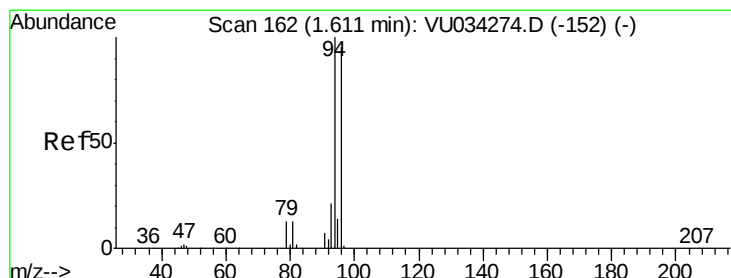
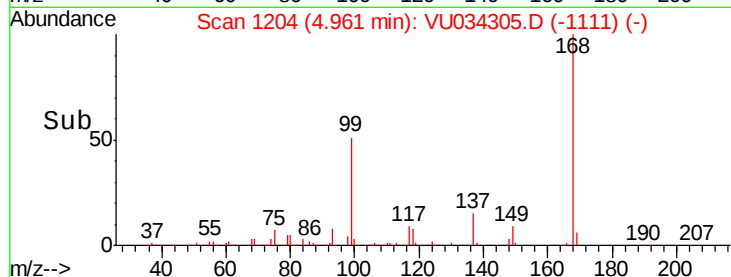
100000

50000

0

4.90 5.00 5.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.02 min

Lab File: VU034305.D

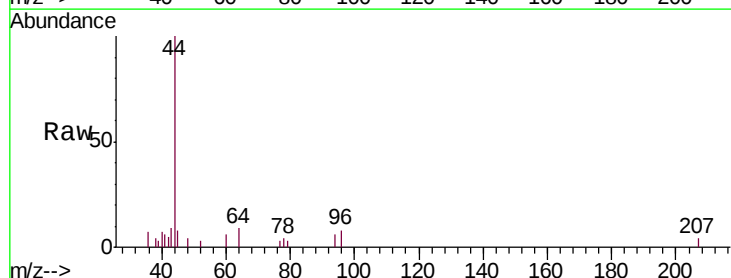
Acq: 05 Sep 2019 23:41

Tgt Ion: 94 Resp: 302

Ion Ratio Lower Upper

94 100

96 61.3 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) (-)

1.63

400

300

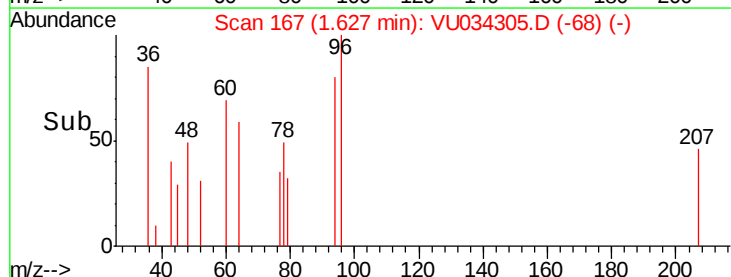
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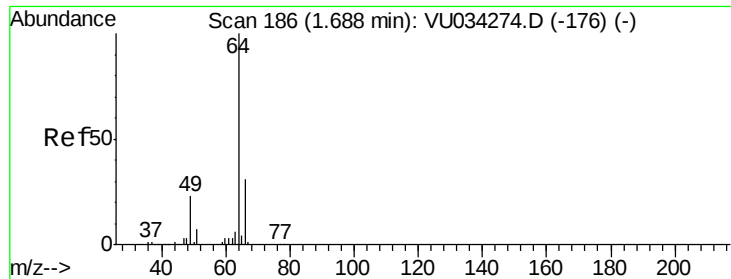
100

0

1.61 1.62 1.63 1.64

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 200

Delta R.T. 0.05 min

Lab File: VU034305.D

Acq: 05 Sep 2019 23:41

Instrument :

MSVOA_U

ClientSampleId :

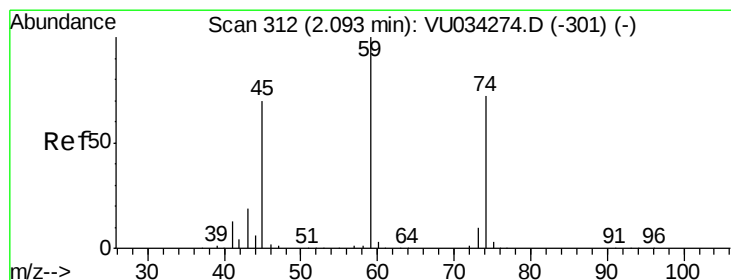
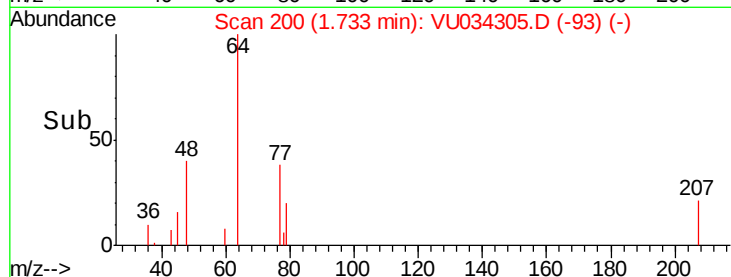
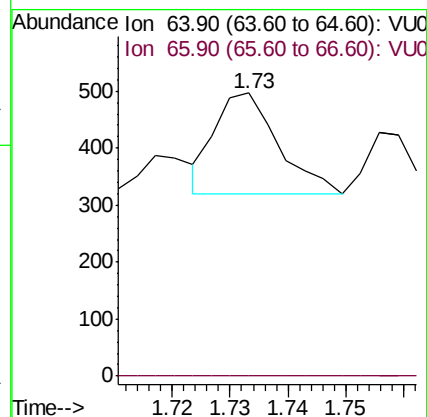
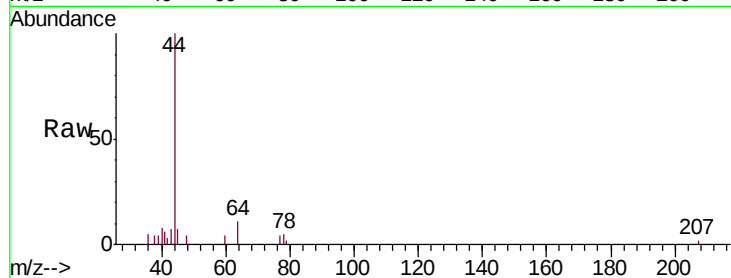
PAR-12-A1-(3.5)

Tgt Ion: 64 Resp: 133

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#8

Diethyl Ether

Concen: 0.419 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.00 min

Lab File: VU034305.D

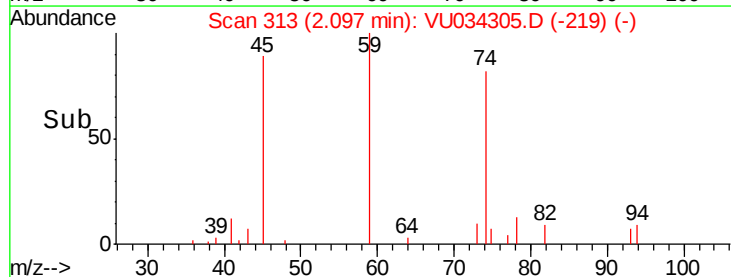
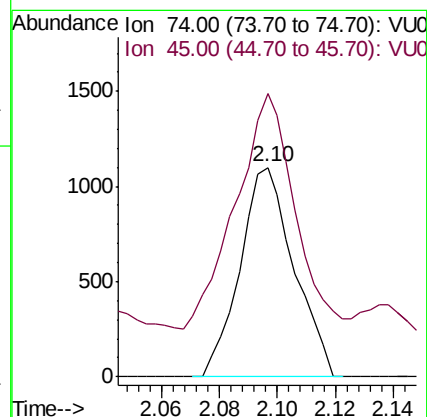
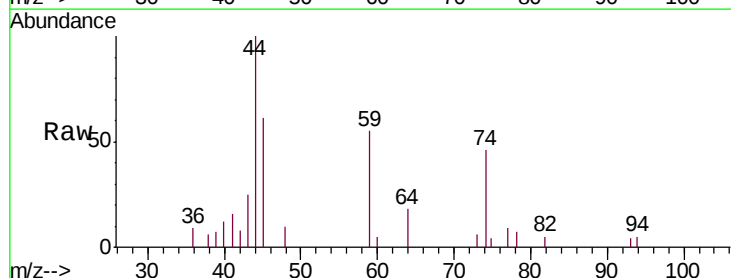
Acq: 05 Sep 2019 23:41

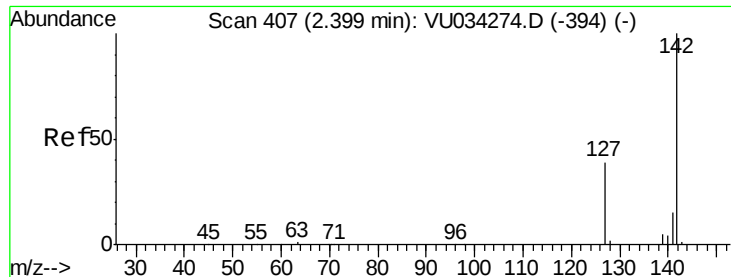
Tgt Ion: 74 Resp: 1415

Ion Ratio Lower Upper

74 100

45 121.6 48.2 144.6

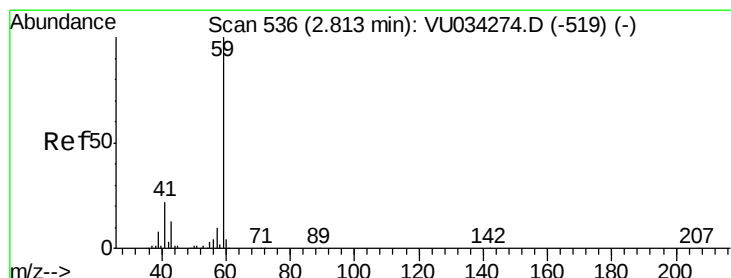
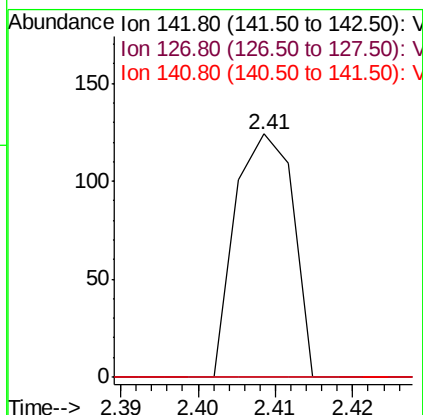
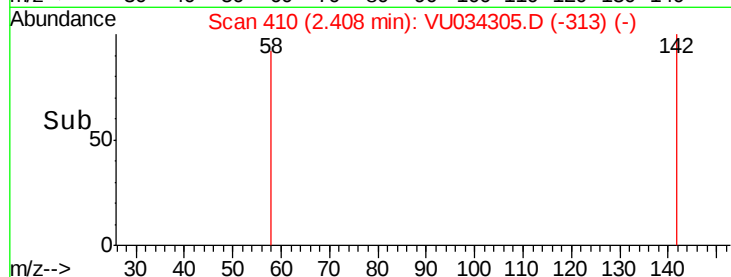
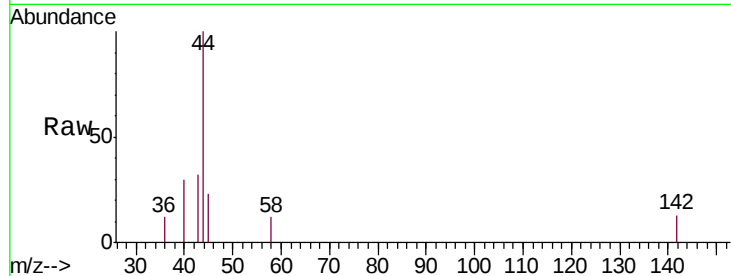




#10
Methyl Iodide
Concen: 3.859 ug/l
RT: 2.41 min Scan# 410
Delta R.T. 0.01 min
Lab File: VU034305.D
Acq: 05 Sep 2019 23:41

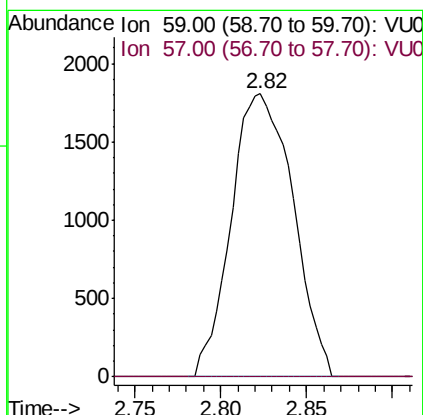
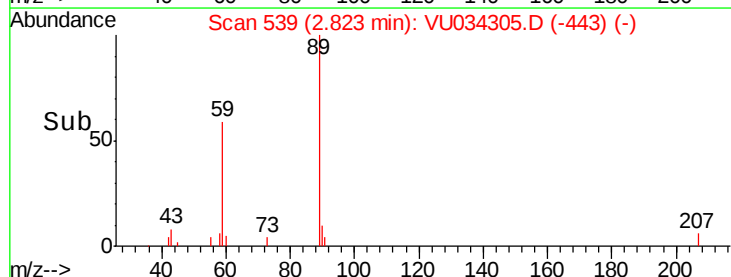
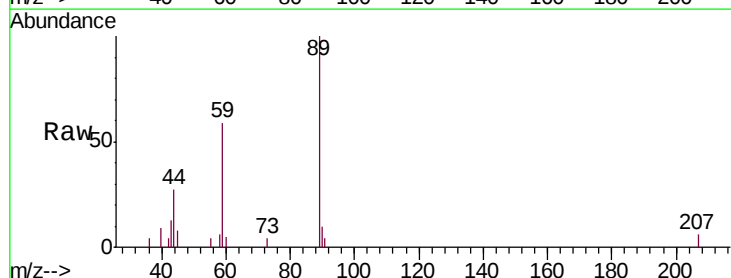
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A1-(3.5)

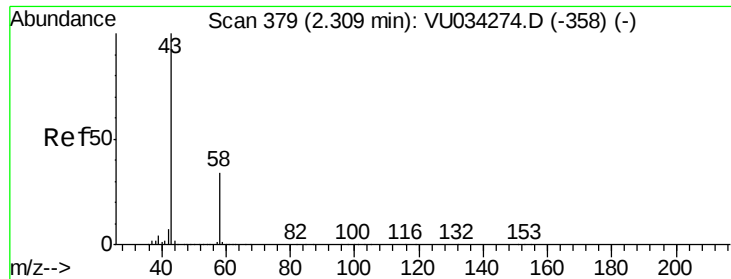
Tgt Ion: 142 Resp: 64
Ion Ratio Lower Upper
142 100
127 0.0 32.1 48.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 3.216 ug/l
RT: 2.82 min Scan# 539
Delta R.T. 0.01 min
Lab File: VU034305.D
Acq: 05 Sep 2019 23:41

Tgt Ion: 59 Resp: 4518
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#





#16

Acetone

Concen: 5.453 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034305.D

Acq: 05 Sep 2019 23:41

Instrument :

MSVOA_U

ClientSampleId :

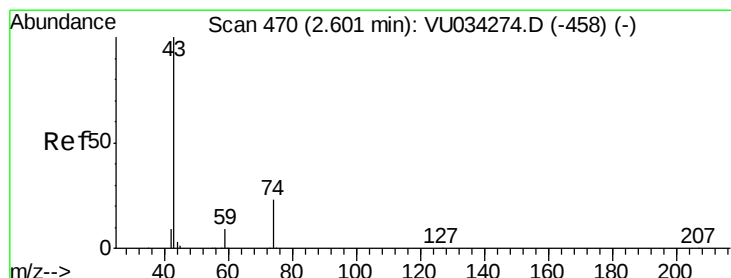
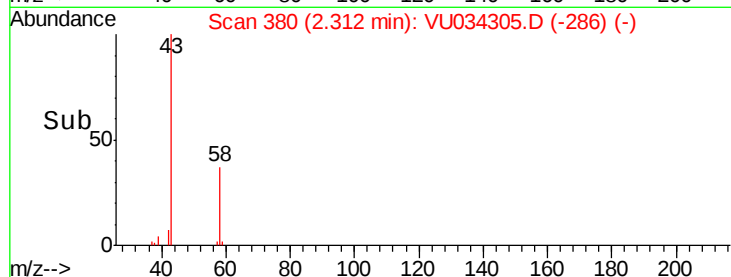
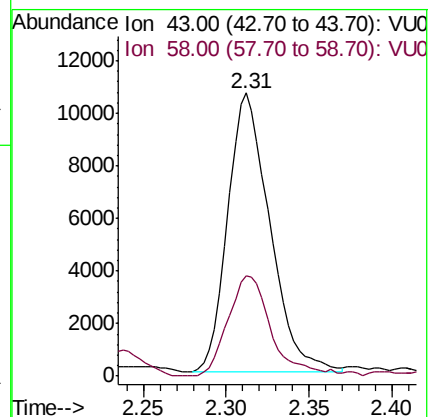
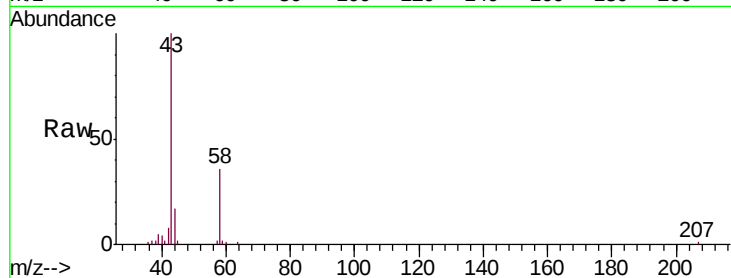
PAR-12-A1-(3.5)

Tgt Ion: 43 Resp: 18767

Ion Ratio Lower Upper

43 100

58 36.2 27.6 41.4



#18

Methyl Acetate

Concen: 0.526 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034305.D

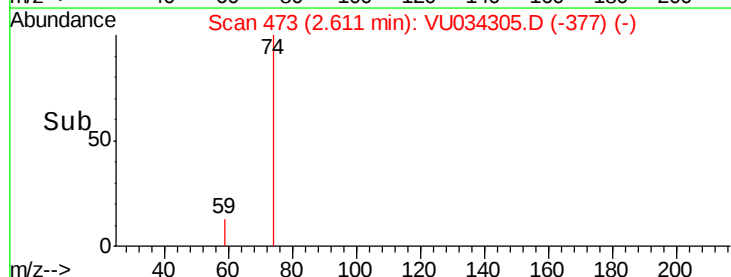
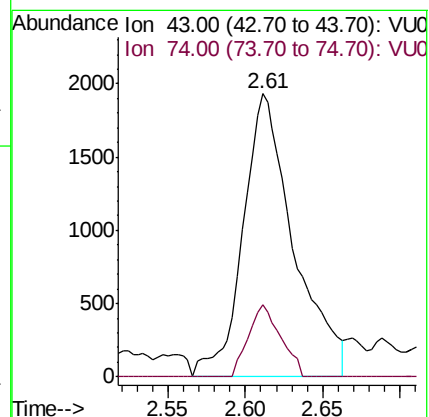
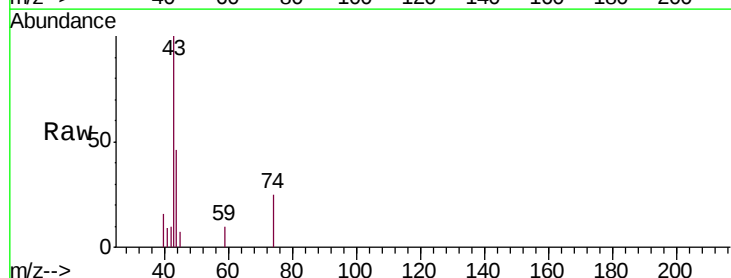
Acq: 05 Sep 2019 23:41

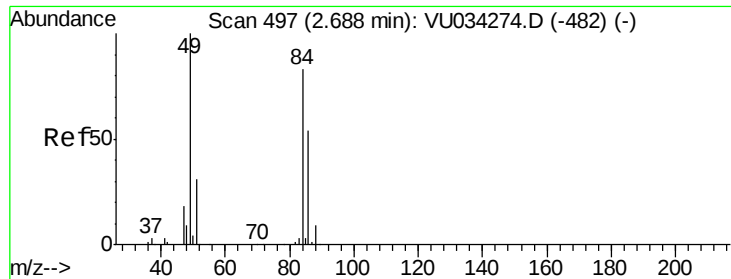
Tgt Ion: 43 Resp: 4406

Ion Ratio Lower Upper

43 100

74 16.1 18.9 28.3#

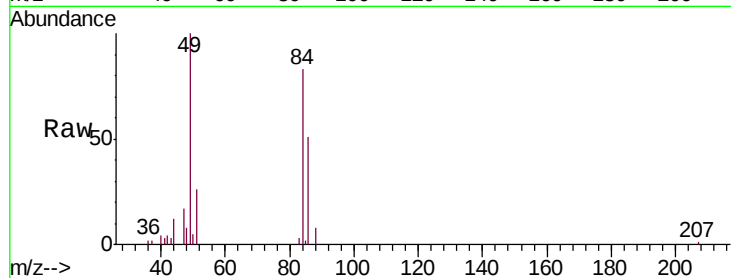




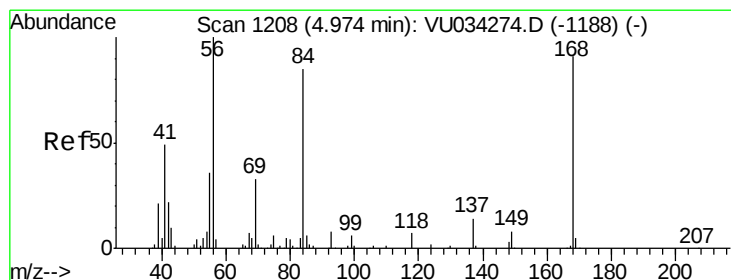
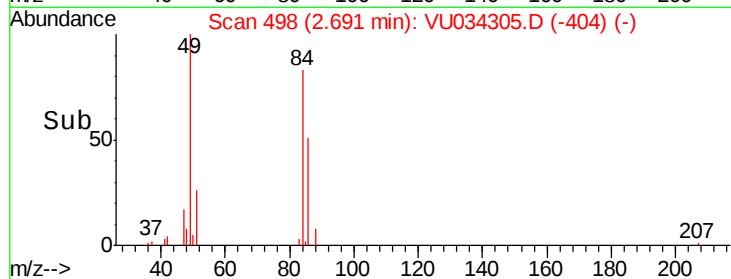
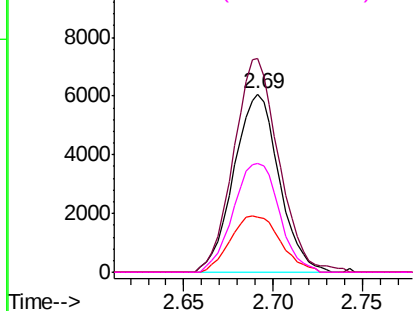
#20
Methylene Chloride
Concen: 1.520 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.00 min
Lab File: VU034305.D
Acq: 05 Sep 2019 23:41

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A1-(3.5)

Tgt Ion: 84 Resp: 10752
Ion Ratio Lower Upper
84 100
49 119.9 96.0 144.0
51 30.6 30.0 45.0
86 61.5 51.4 77.0

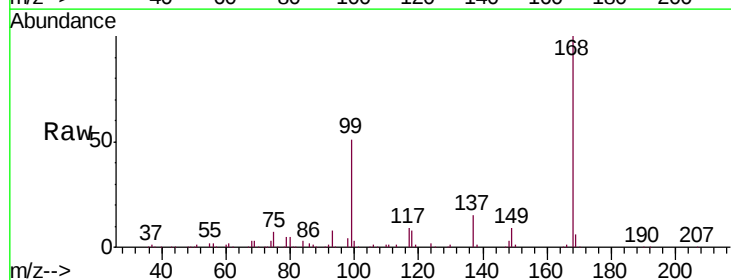


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

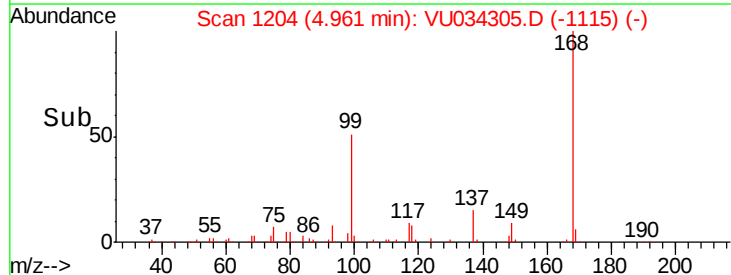
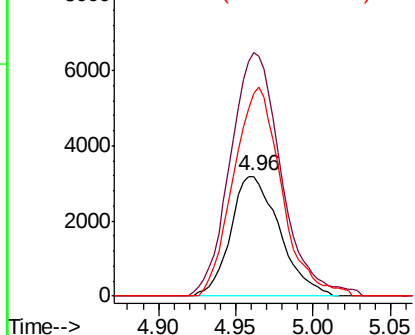


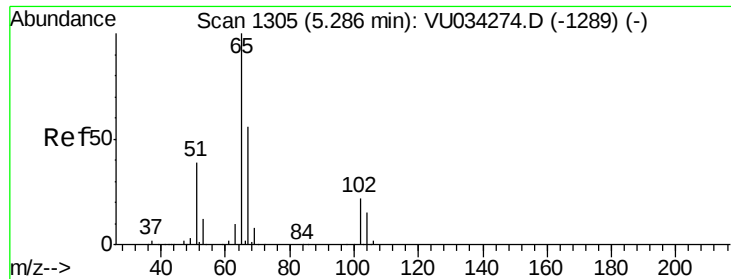
#31
Cyclohexane
Concen: 0.898 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034305.D
Acq: 05 Sep 2019 23:41

Tgt Ion: 56 Resp: 6998
Ion Ratio Lower Upper
56 100
69 203.2 26.7 40.1#
84 168.8 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

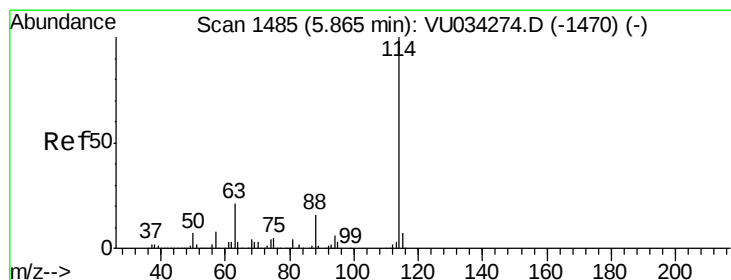
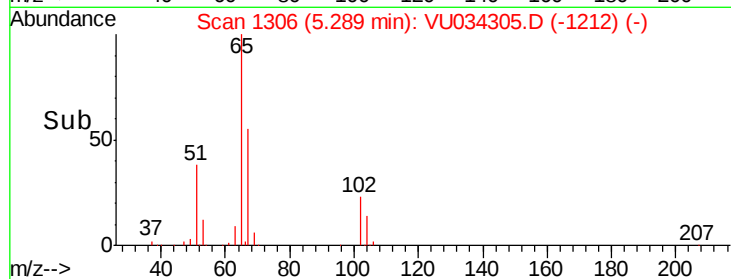
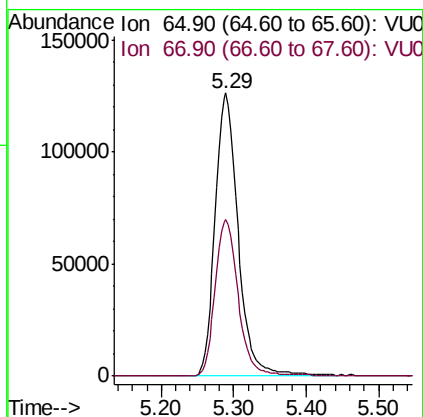
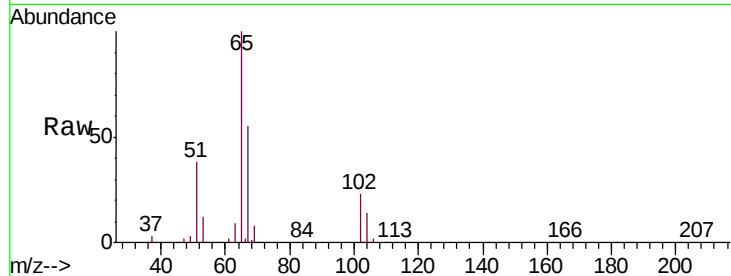




#33
 1,2-Dichloroethane-d4
 Concen: 41.995 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034305.D
 Acq: 05 Sep 2019 23:41

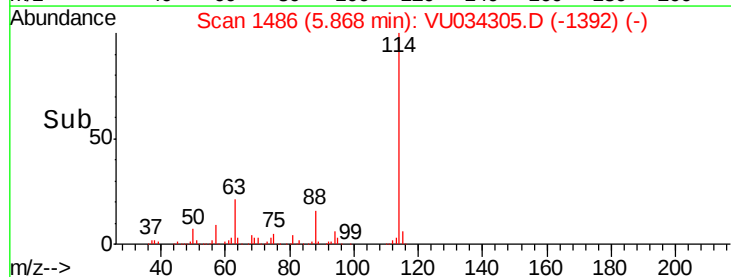
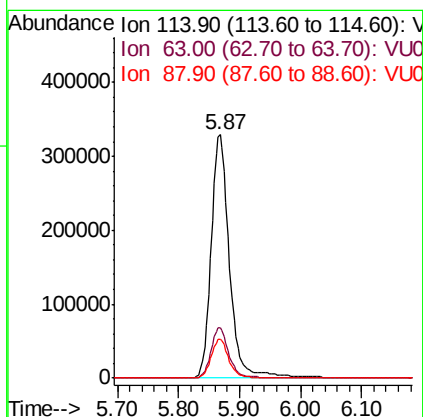
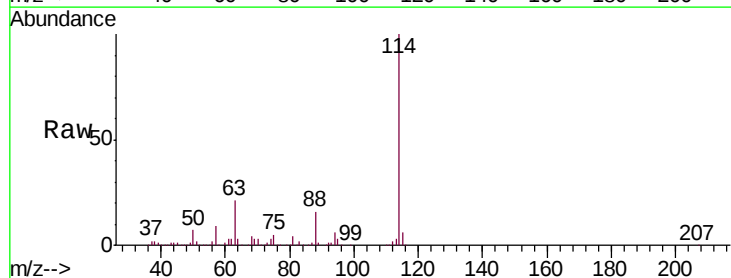
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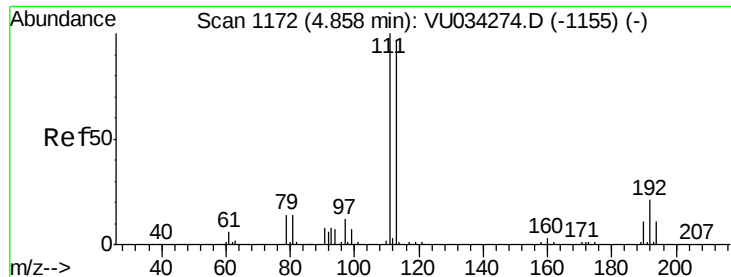
Tgt Ion: 65 Resp: 279287
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034305.D
 Acq: 05 Sep 2019 23:41

Tgt Ion: 114 Resp: 692066
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 42.4
 88 15.9 0.0 32.4

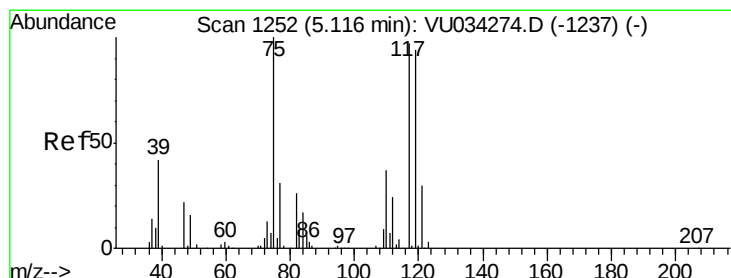
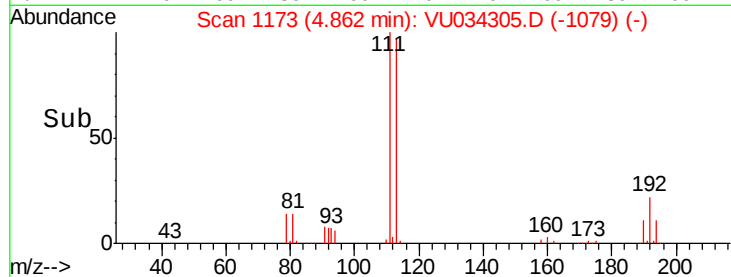
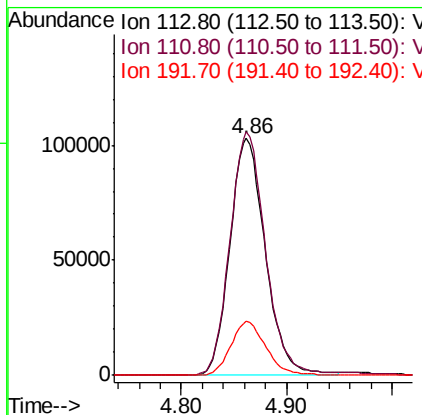
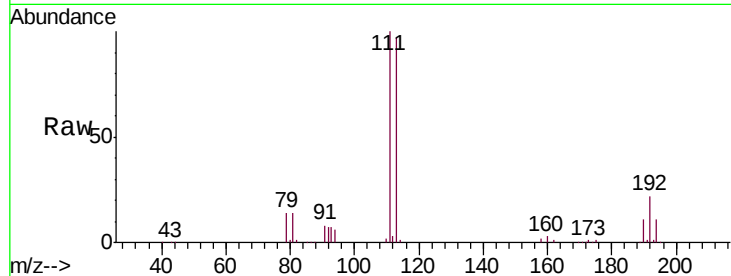




#35
 Dibromofluoromethane
 Concen: 37.305 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034305.D
 Acq: 05 Sep 2019 23:41

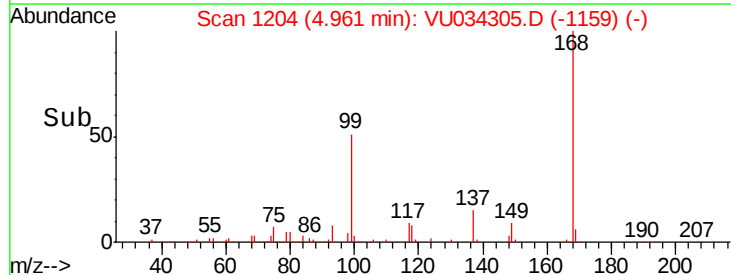
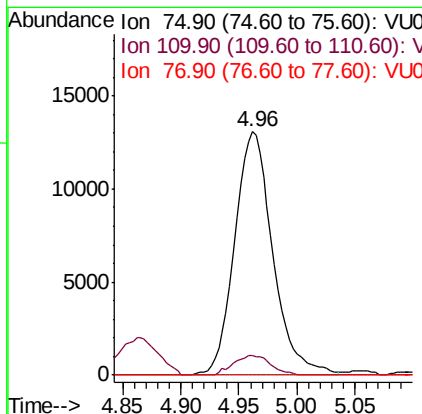
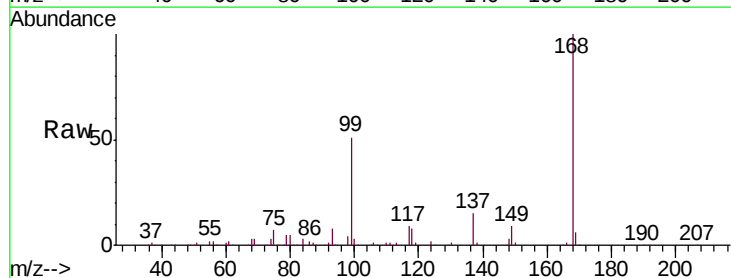
Instrument :
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 ClientSampleId :
 PAR-12-A1-(3.5)

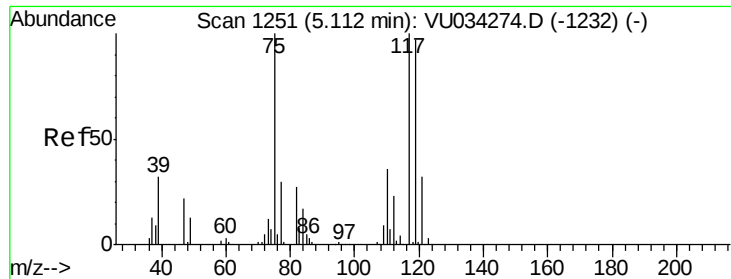
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.5	122.3
192	22.4	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 3.972 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034305.D
 Acq: 05 Sep 2019 23:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	18.3	54.9#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 4.741 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034305.D

Acq: 05 Sep 2019 23:41

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-A1-(3.5)

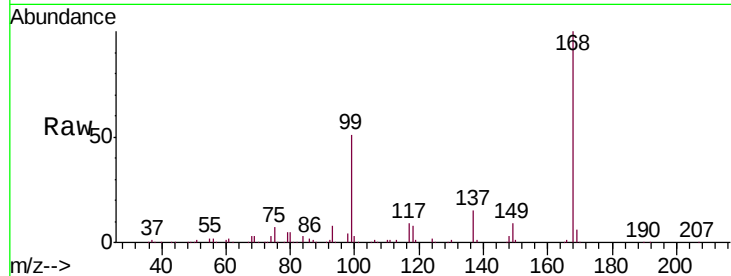
Tgt Ion:117 Resp: 37996

Ion Ratio Lower Upper

117 100

119 5.8 77.8 116.6#

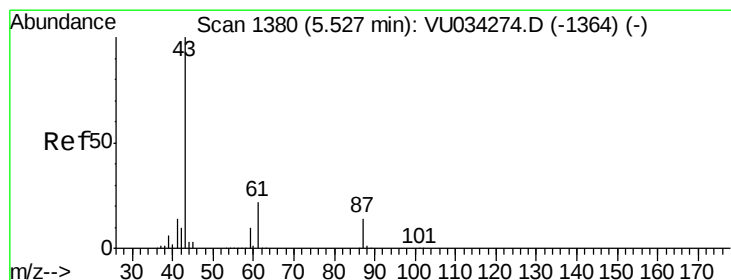
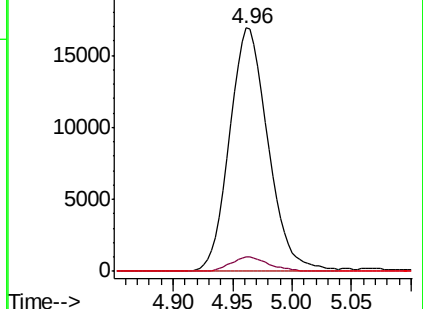
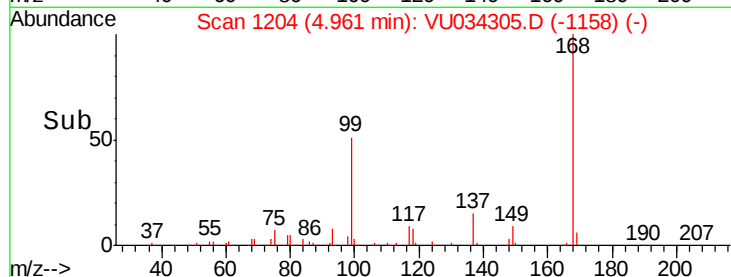
121 0.0 25.2 37.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 6.666 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034305.D

Acq: 05 Sep 2019 23:41

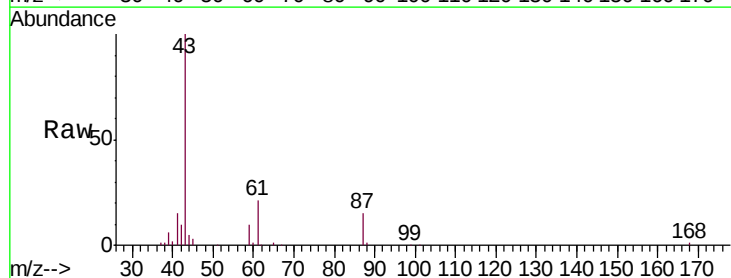
Tgt Ion: 43 Resp: 92275

Ion Ratio Lower Upper

43 100

61 20.2 17.1 25.7

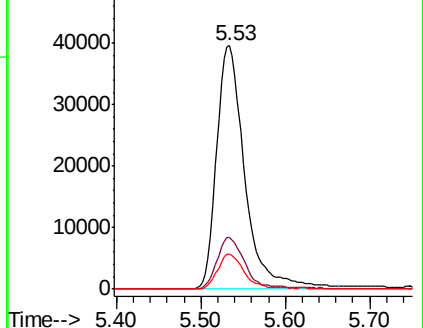
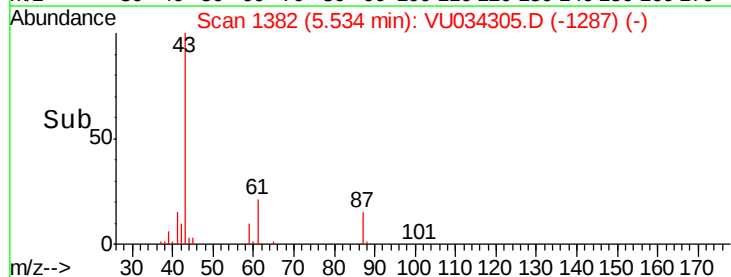
87 13.7 11.1 16.7

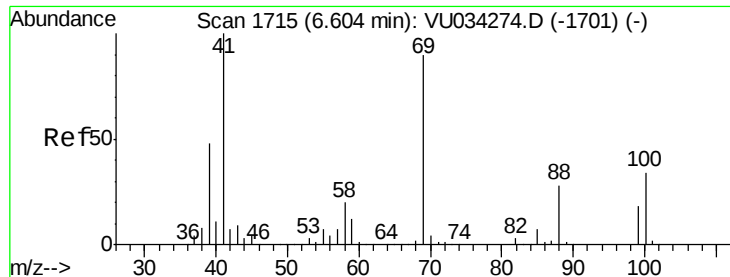


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

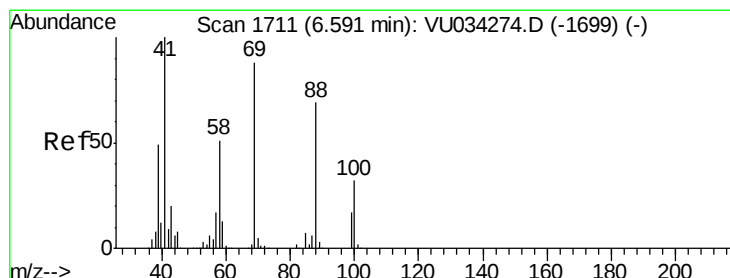
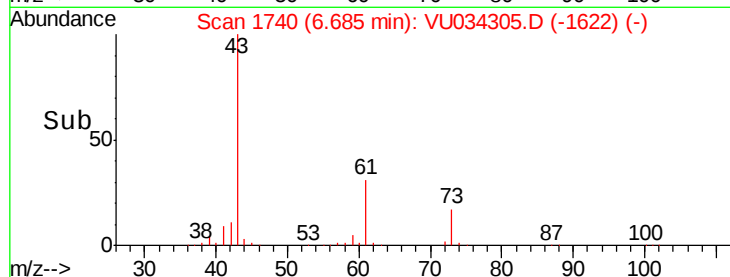
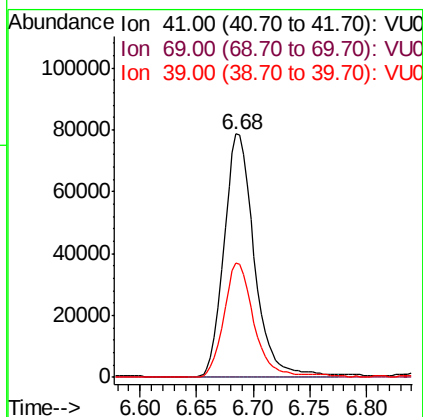
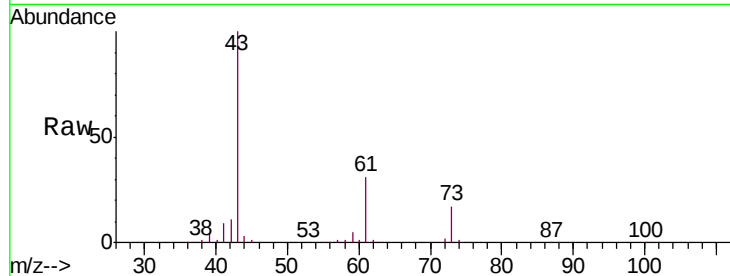




#48
Methyl methacrylate
Concen: 22.206 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.08 min
Lab File: VU034305.D
Acq: 05 Sep 2019 23:41

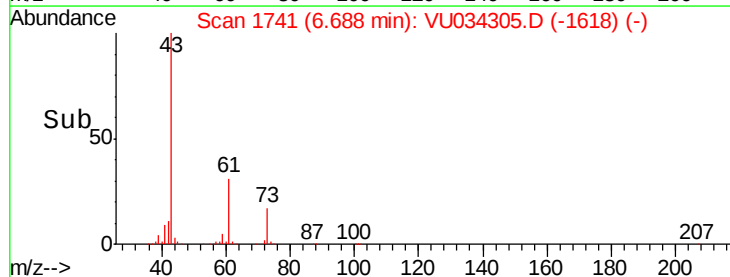
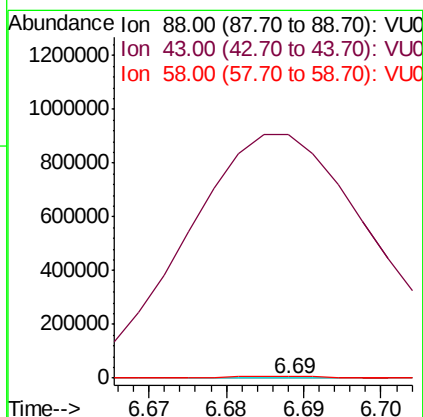
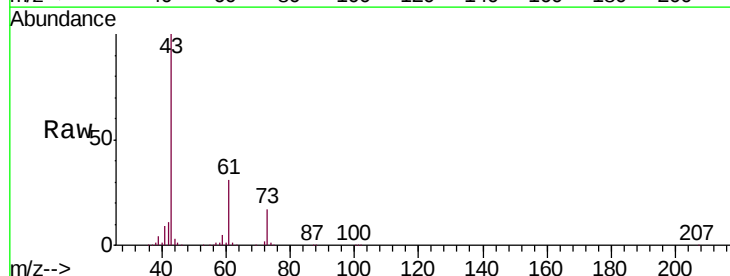
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A1-(3.5)

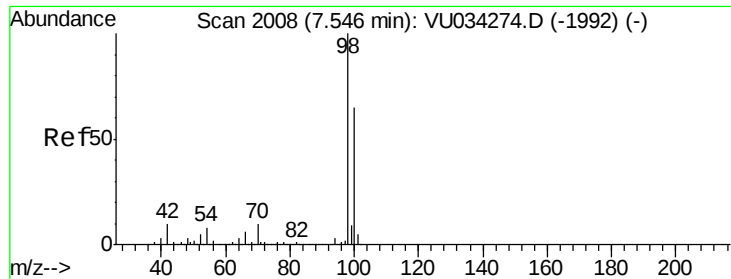
Tgt Ion: 41 Resp: 146007
Ion Ratio Lower Upper
41 100
69 0.1 72.8 109.2#
39 46.8 38.6 58.0



#49
1,4-Dioxane
Concen: 0.829 ug/l
RT: 6.69 min Scan# 1741
Delta R.T. 0.10 min
Lab File: VU034305.D
Acq: 05 Sep 2019 23:41

Tgt Ion: 88 Resp: 119
Ion Ratio Lower Upper
88 100
43 1405863.9 23.8 35.6#
58 7352.9 58.4 87.6#

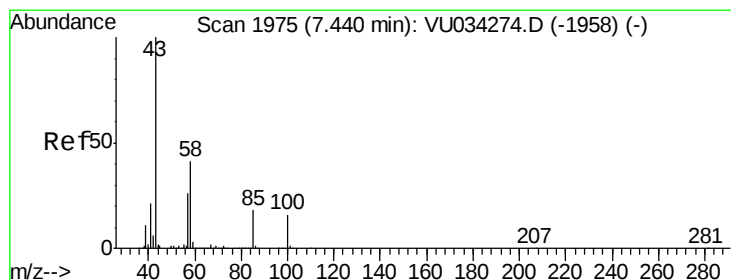
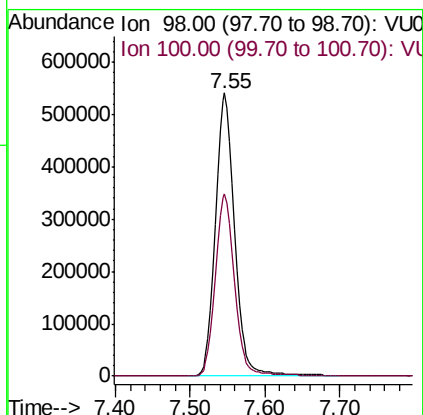
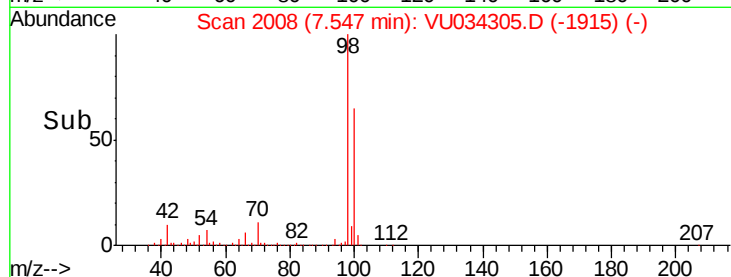
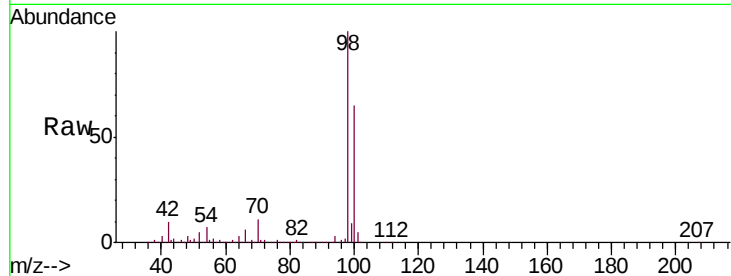




#50
Toluene-d8
Concen: 40.176 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034305.D
Acq: 05 Sep 2019 23:41

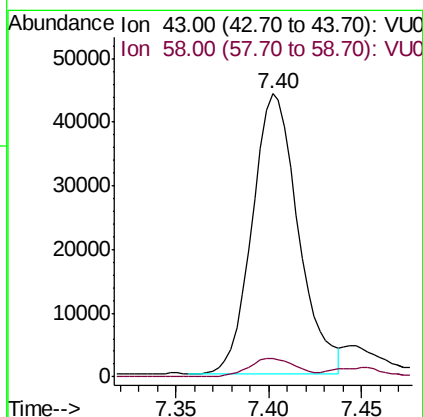
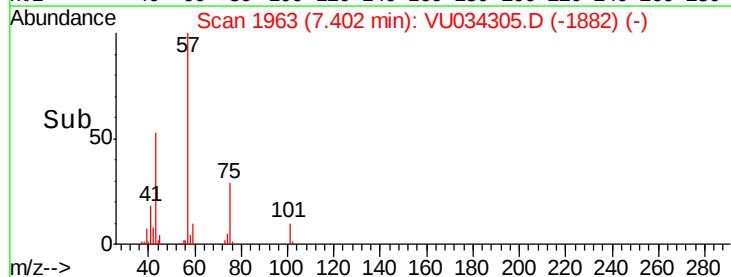
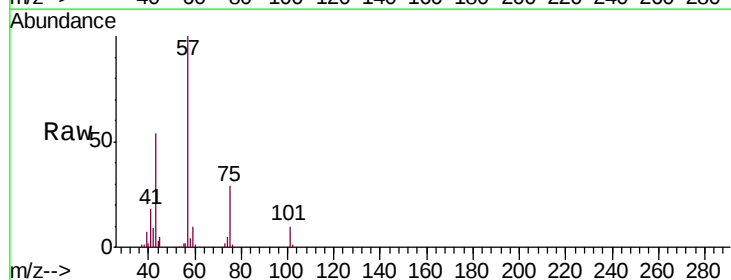
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A1-(3.5)

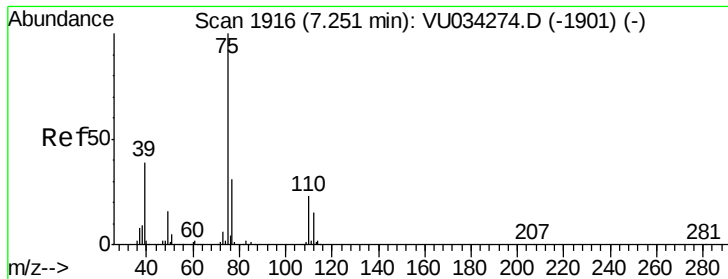
Tgt Ion: 98 Resp: 972029
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 7.922 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034305.D
Acq: 05 Sep 2019 23:41

Tgt Ion: 43 Resp: 75912
Ion Ratio Lower Upper
43 100
58 7.0 33.0 49.4#



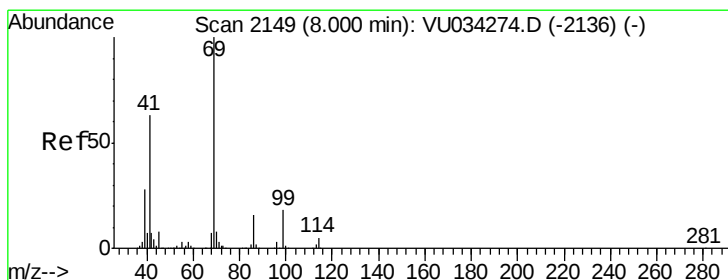
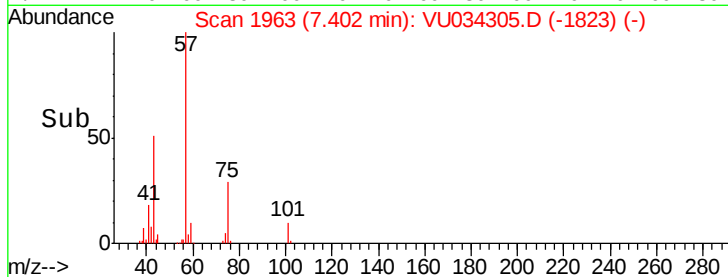
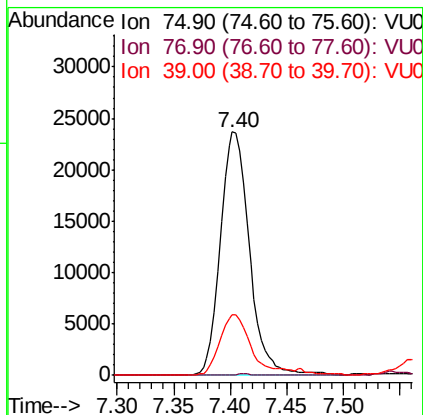
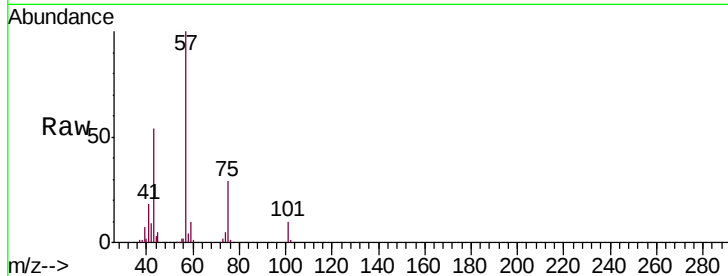


#54

cis-1,3-Dichloropropene
 Concen: 4.077 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034305.D
 Acq: 05 Sep 2019 23:41

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-A1-(3.5)

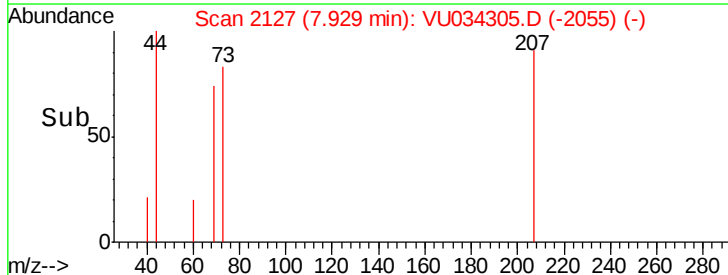
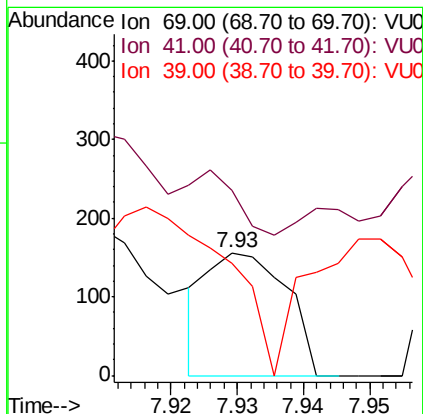
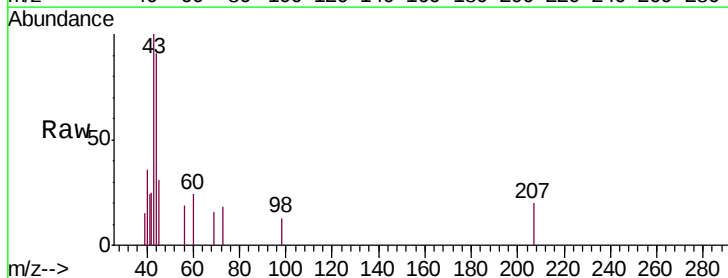
Tgt Ion: 75 Resp: 42429
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 25.0 31.2 46.8#

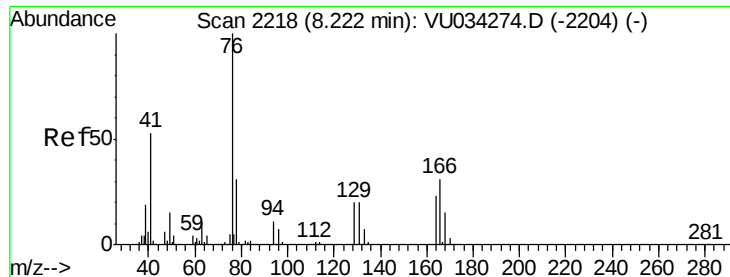


#56

Ethyl methacrylate
 Concen: 3.088 ug/l
 RT: 7.93 min Scan# 2127
 Delta R.T. -0.07 min
 Lab File: VU034305.D
 Acq: 05 Sep 2019 23:41

Tgt Ion: 69 Resp: 129
 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: 0.672 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034305.D

Acq: 05 Sep 2019 23:41

Instrument :

MSVOA_U

ClientSampleId :

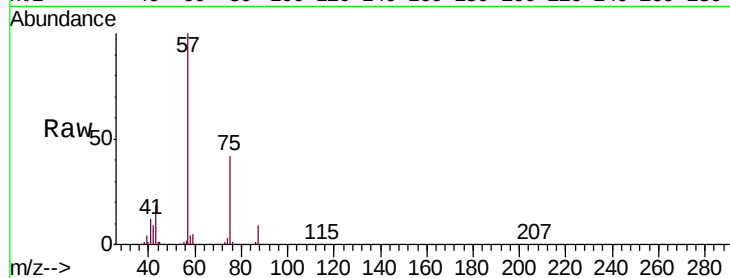
PAR-12-A1-(3.5)

Tgt Ion: 76 Resp: 7548

Ion Ratio Lower Upper

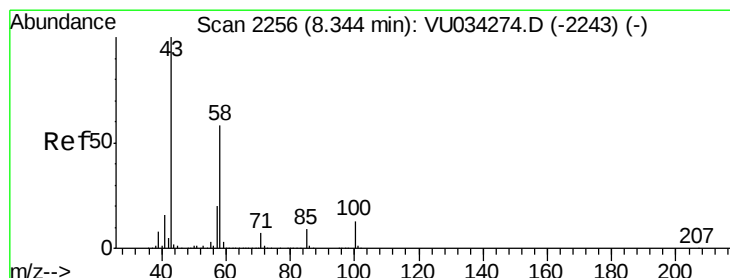
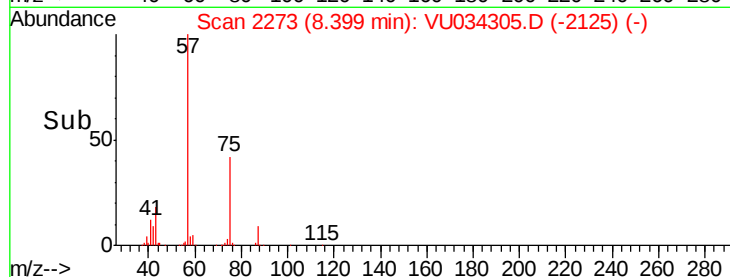
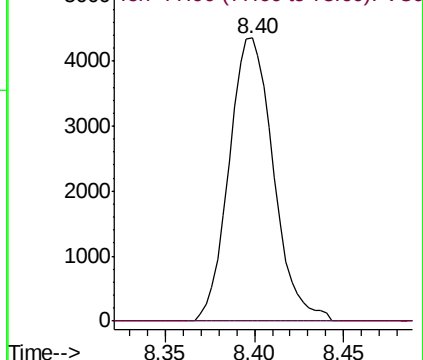
76 100

78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VU034305.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034305.D (-2125) (-)



#59

2-Hexanone

Concen: 12.942 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.05 min

Lab File: VU034305.D

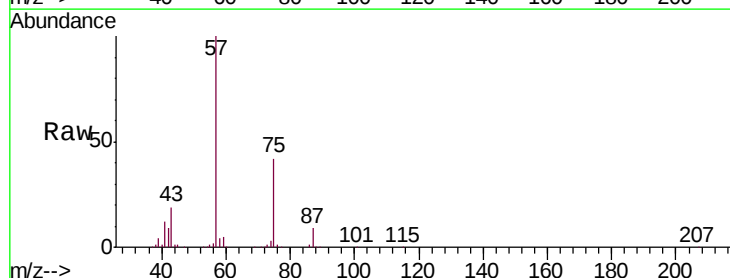
Acq: 05 Sep 2019 23:41

Tgt Ion: 43 Resp: 92645

Ion Ratio Lower Upper

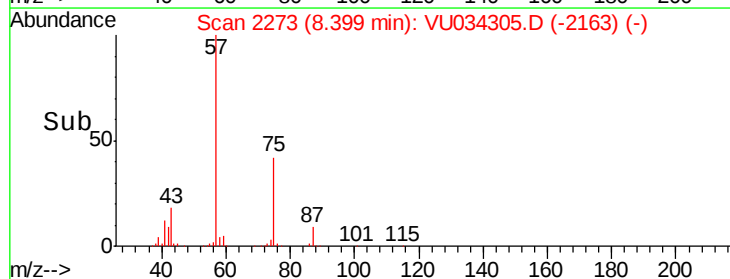
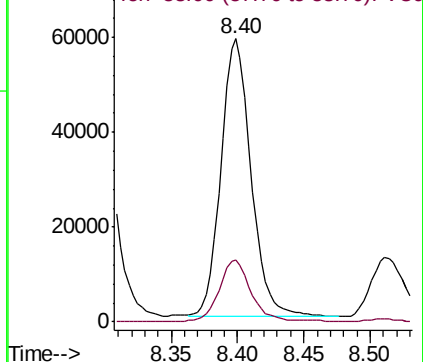
43 100

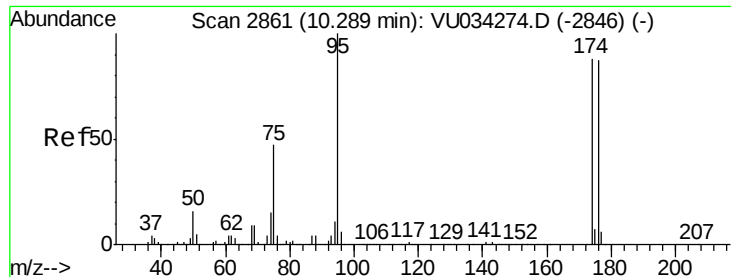
58 23.6 28.8 86.5#



Abundance Ion 43.00 (42.70 to 43.70): VU034305.D (-2163) (-)

Ion 58.00 (57.70 to 58.70): VU034305.D (-2163) (-)

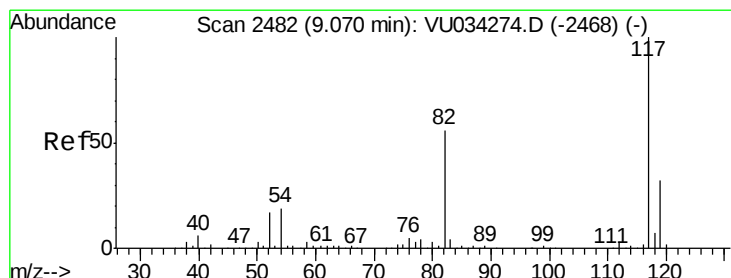
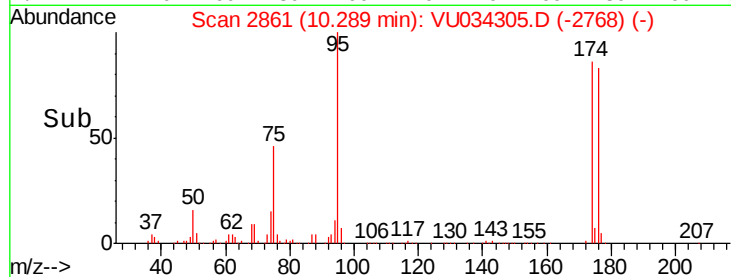
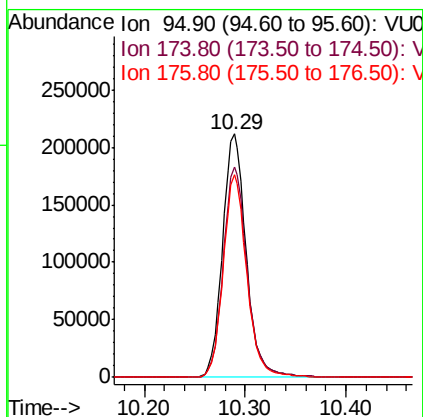
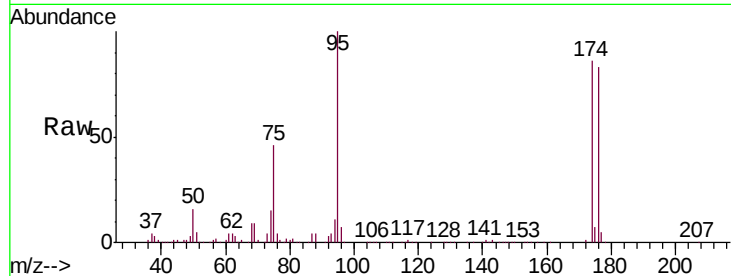




#62
4-Bromofluorobenzene
Concen: 37.214 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034305.D
Acq: 05 Sep 2019 23:41

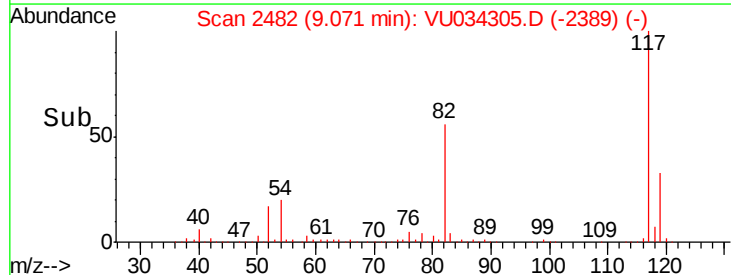
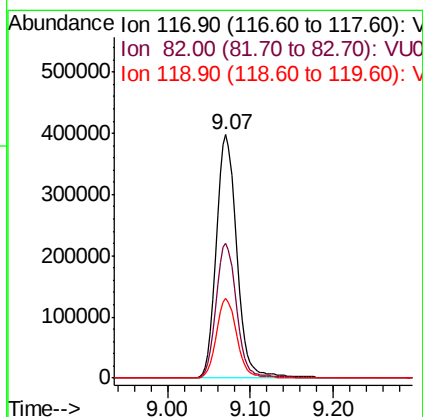
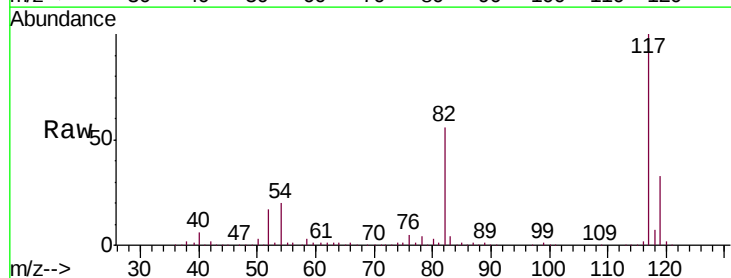
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A1-(3.5)

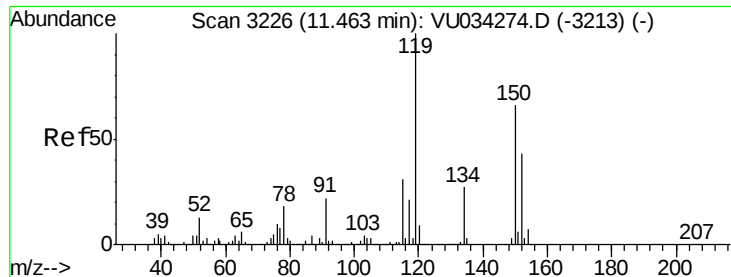
Tgt Ion: 95 Resp: 347624
Ion Ratio Lower Upper
95 100
174 87.4 0.0 175.2
176 82.9 0.0 168.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034305.D
Acq: 05 Sep 2019 23:41

Tgt Ion: 117 Resp: 681897
Ion Ratio Lower Upper
117 100
82 55.5 44.6 67.0
119 32.6 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: VU034305.D

Acq: 05 Sep 2019 23:41

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-A1-(3.5)

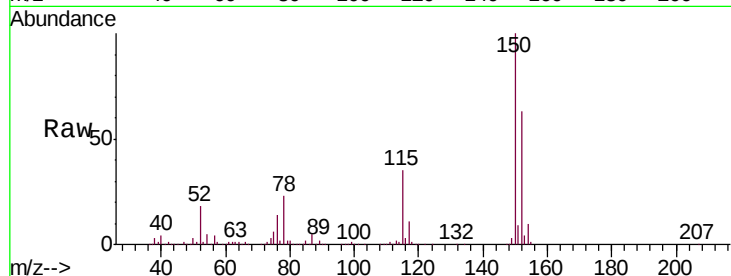
Tgt Ion:152 Resp: 343052

Ion Ratio Lower Upper

152 100

115 55.8 39.1 117.3

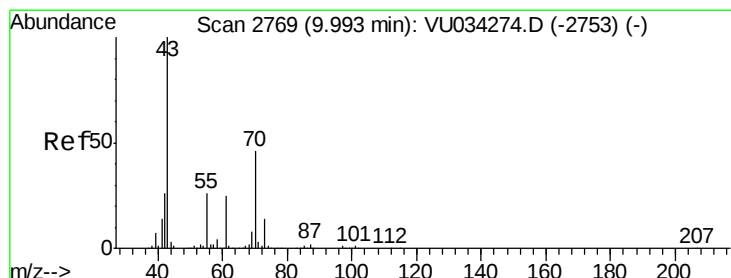
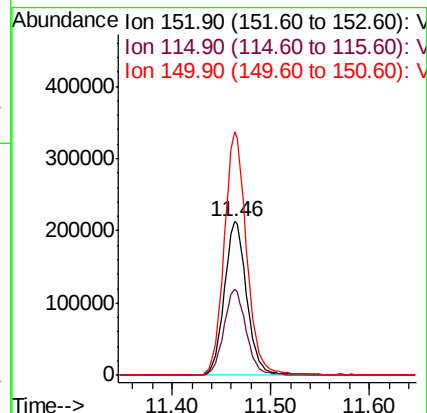
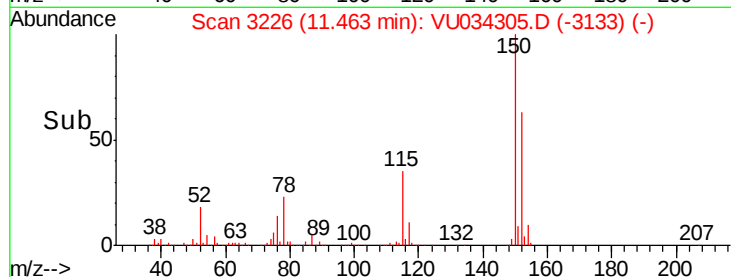
150 157.4 0.0 345.4



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: 0.363 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.07 min

Lab File: VU034305.D

Acq: 05 Sep 2019 23:41

Tgt Ion: 43 Resp: 3266

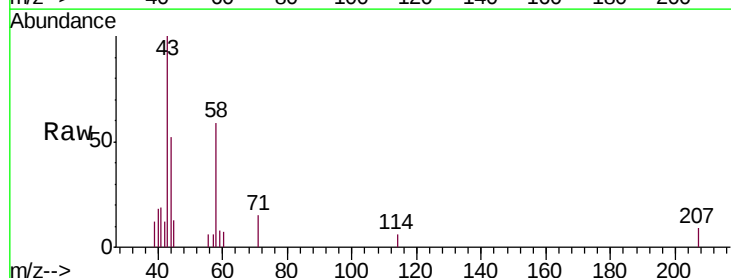
Ion Ratio Lower Upper

43 100

70 0.0 36.4 54.6#

55 2.6 21.2 31.8#

61 0.0 20.4 30.6#

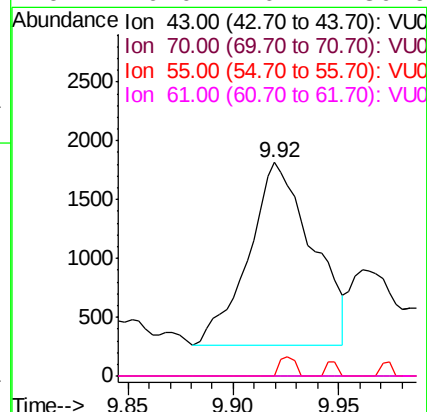
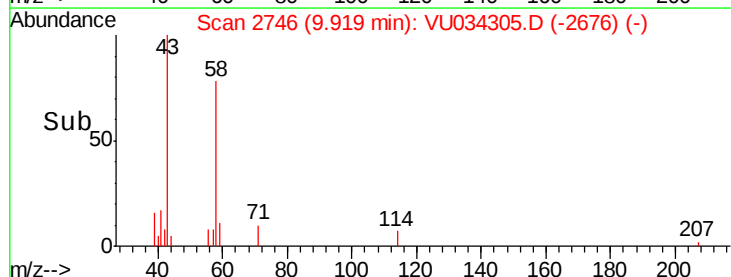


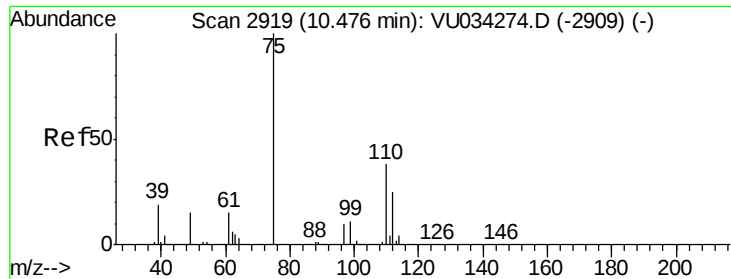
Abundance Ion 43.00 (42.70 to 43.70): VU0

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

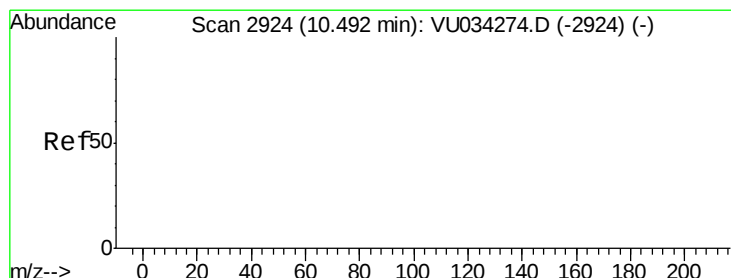
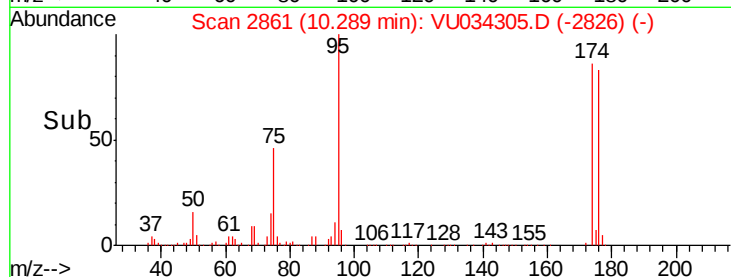
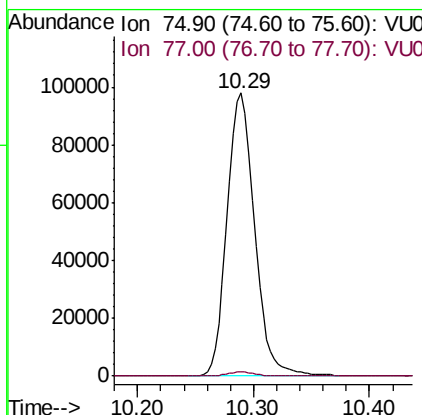
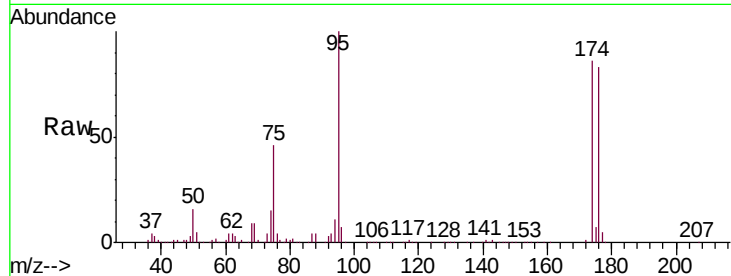




#76
 1,2,3-Trichloropropane
 Concen: 21.519 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034305.D
 Acq: 05 Sep 2019 23:41

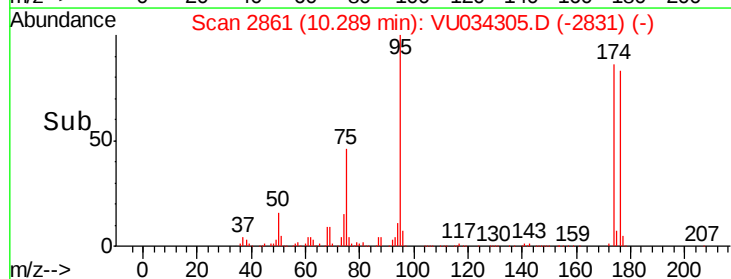
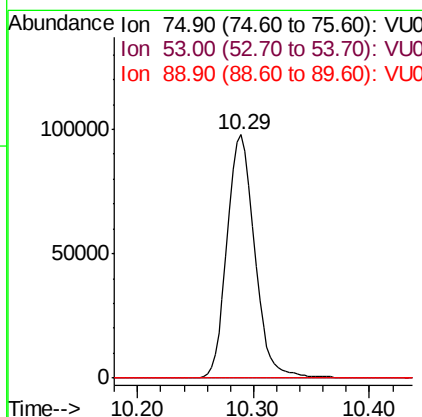
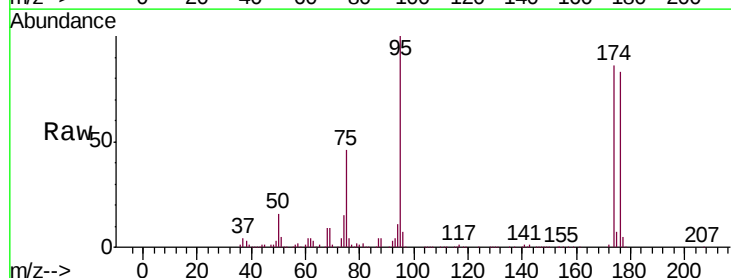
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-A1-(3.5)

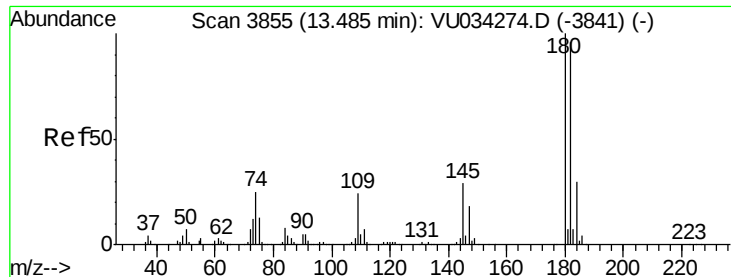
Tgt Ion: 75 Resp: 161142
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.8 62.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.368 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.20 min
 Lab File: VU034305.D
 Acq: 05 Sep 2019 23:41

Tgt Ion: 75 Resp: 161142
 Ion Ratio Lower Upper
 75 100
 53 0.2 0.0 0.0#
 89 0.0 0.0 0.0

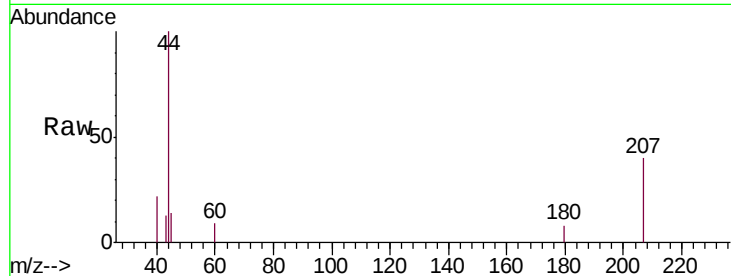




#93
 1,2,4-Trichlorobenzene
 Concen: 3.456 ug/l
 RT: 13.54 min Scan# 3873
 Delta R.T. 0.06 min
 Lab File: VU034305.D
 Acq: 05 Sep 2019 23:41

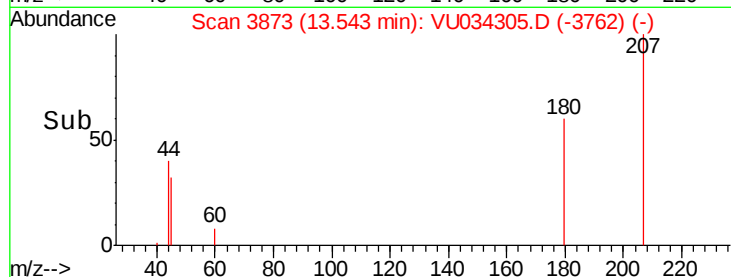
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-A1-(3.5)

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

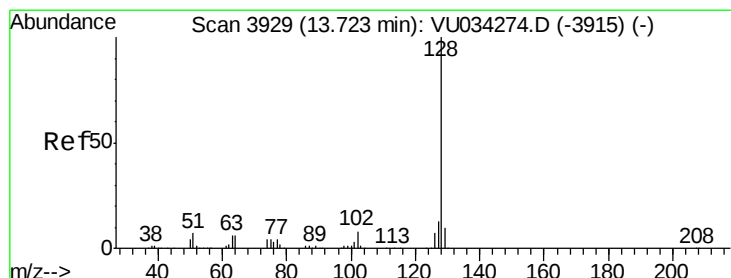


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

13.54

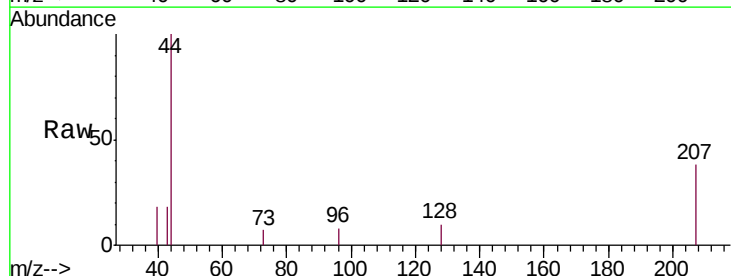


Time-->



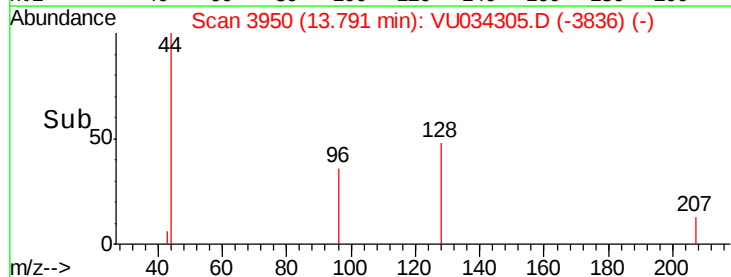
#95
 Naphthalene
 Concen: 3.969 ug/l
 RT: 13.79 min Scan# 3950
 Delta R.T. 0.07 min
 Lab File: VU034305.D
 Acq: 05 Sep 2019 23:41

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

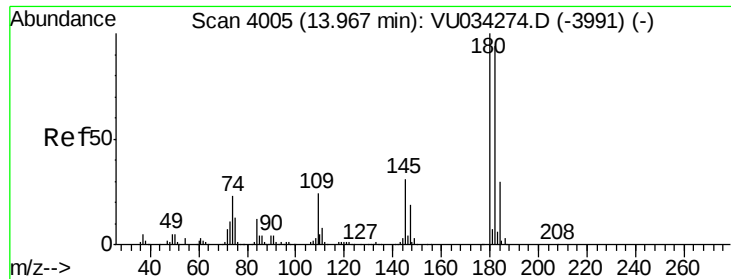


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

13.79



Time-->



#96
 1,2,3-Trichlorobenzene
 Concen: 2.641 ug/l
 RT: 14.00 min Scan# 4015
 Delta R.T. 0.03 min
 Lab File: VU034305.D
 Acq: 05 Sep 2019 23:41

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-A1-(3.5)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.4	145.0#
145	0.0	15.4	46.4#

