

Data File : VU034304.D
Acq On : 05 Sep 2019 23:17
Operator : JC/SP
Sample : K4579-21
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A4-(0)

Quant Time: Sep 06 07:44:31 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	430365	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	672207	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	683211	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	333718	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	281594	43.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.50%	
35) Dibromofluoromethane	4.86	113	247057	39.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.00%	
50) Toluene-d8	7.55	98	972983	41.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.80%	
62) 4-Bromofluorobenzene	10.29	95	340902	37.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.14%	

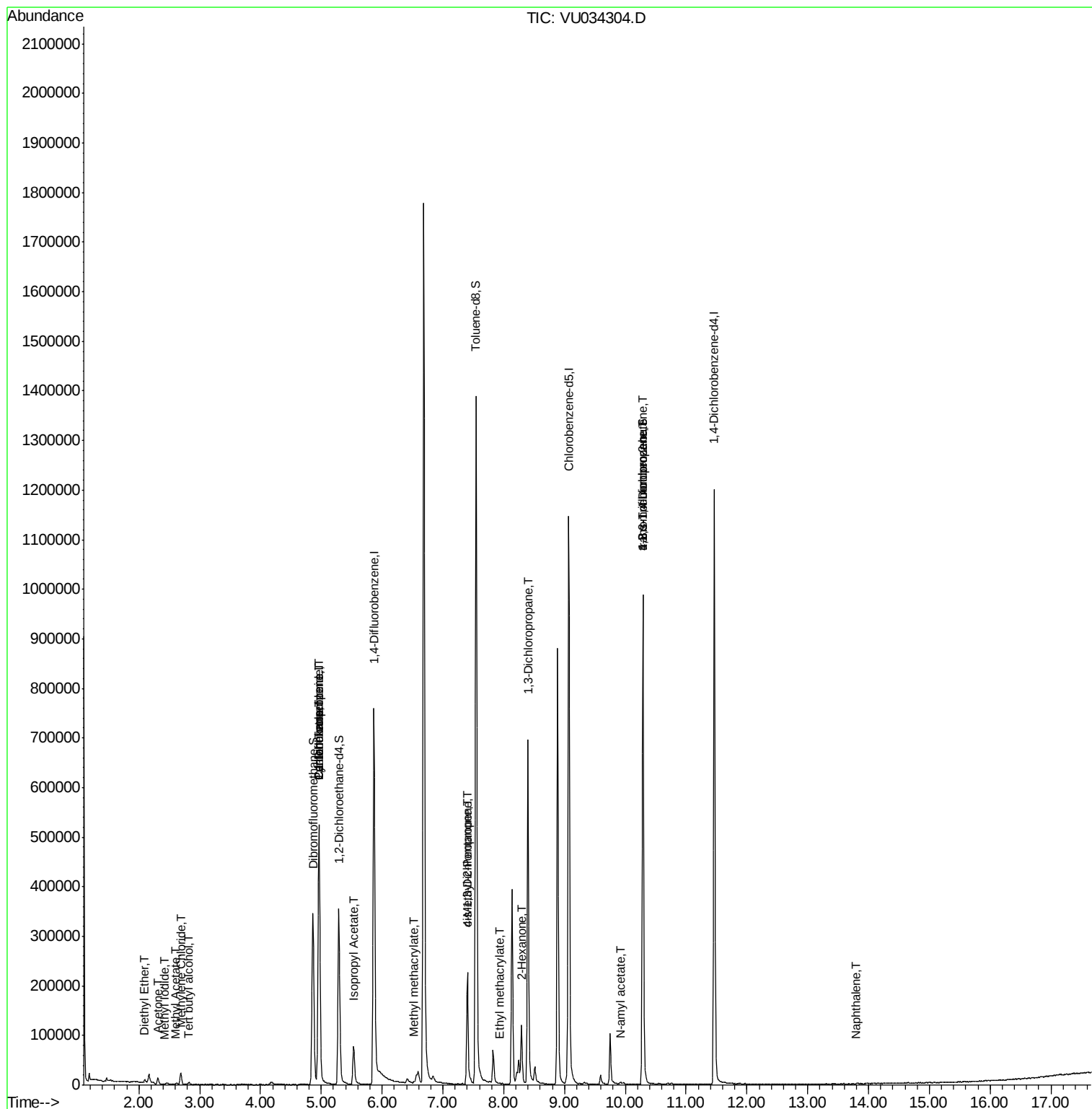
Target Compounds					Qvalue
5) Bromomethane	1.63	94	634	Below Cal	93
6) Chloroethane	1.69	64	157	Below Cal	# 43
8) Diethyl Ether	2.09	74	1909	0.577 ug/l	83
10) Methyl Iodide	2.41	142	154	3.878 ug/l #	43
11) Tert butyl alcohol	2.82	59	2448	1.780 ug/l #	73
16) Acetone	2.31	43	14013	4.159 ug/l	99
18) Methyl Acetate	2.61	43	3744	0.457 ug/l	95
20) Methylene Chloride	2.69	84	11218	1.646 ug/l	97
31) Cyclohexane	4.96	56	7050	0.924 ug/l #	1
36) 1,1-Dichloropropene	4.96	75	29486	4.045 ug/l #	48
38) Carbon Tetrachloride	4.96	117	38781	4.982 ug/l #	16
43) Isopropyl Acetate	5.53	43	92575	6.885 ug/l	100
48) Methyl methacrylate	6.52	41	4946	0.774 ug/l #	13
51) 4-Methyl-2-Pentanone	7.40	43	84441	9.073 ug/l #	44
54) cis-1,3-Dichloropropene	7.40	75	42270	4.181 ug/l #	64
56) Ethyl methacrylate	7.94	69	193	3.094 ug/l #	28
57) 1,3-Dichloropropane	8.40	76	7423	0.680 ug/l #	43
59) 2-Hexanone	8.29	43	92784	13.344 ug/l #	22
74) N-amyl acetate	9.92	43	2094	0.240 ug/l #	44
76) 1,2,3-Trichloropropane	10.29	75	159770	21.933 ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	159770	73.759 ug/l #	100
95) Naphthalene	13.79	128	65	3.969 ug/l #	69

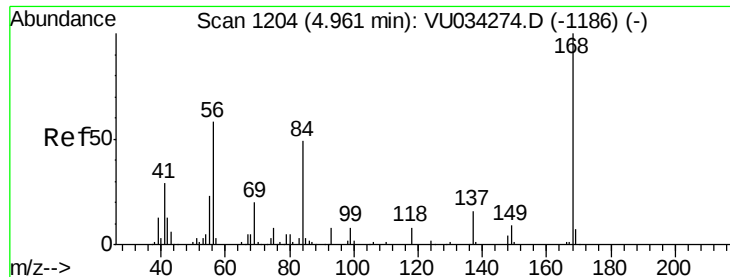
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034304.D

Acq: 05 Sep 2019 23:17

Instrument :

MSVOA_U

ClientSampleId :

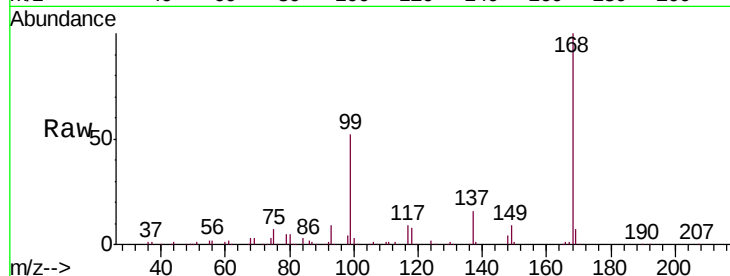
PAR-12-A4-(0)

Tgt Ion:168 Resp: 430365

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

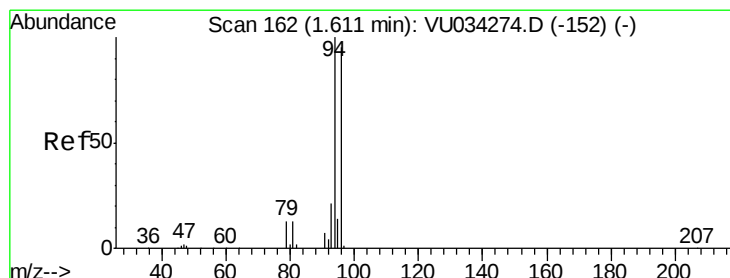
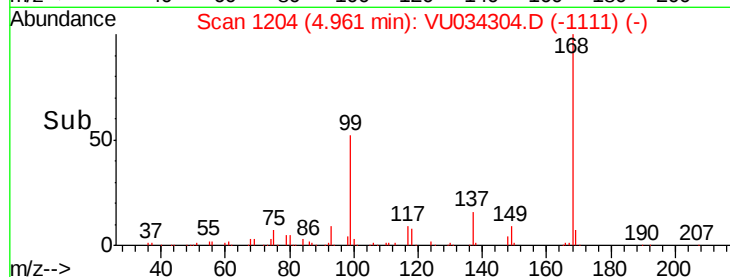
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034304.D

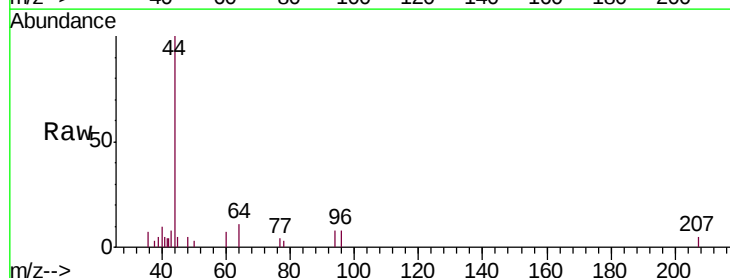
Acq: 05 Sep 2019 23:17

Tgt Ion: 94 Resp: 634

Ion Ratio Lower Upper

94 100

96 101.0 75.7 113.5



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

Ion 95.90 (95.60 to 96.60): VU034274.D (-152) (-)

1.63

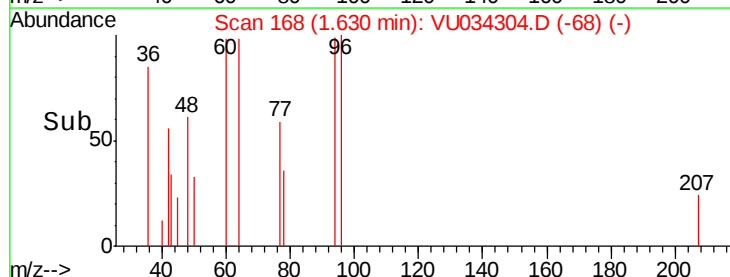
300

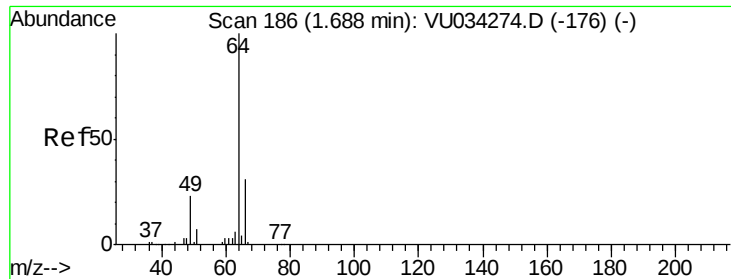
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 185

Delta R.T. -0.00 min

Lab File: VU034304.D

Acq: 05 Sep 2019 23:17

Instrument :

MSVOA_U

ClientSampleId :

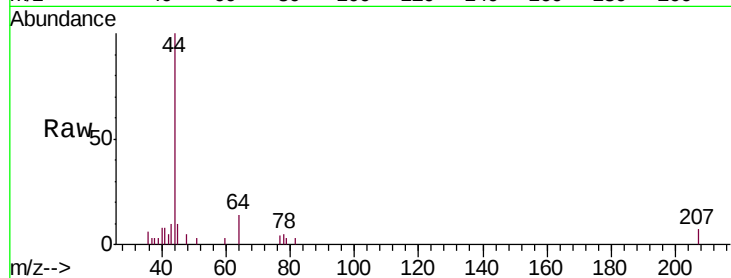
PAR-12-A4-(0)

Tgt Ion: 64 Resp: 157

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) (-)

1.69

600

500

400

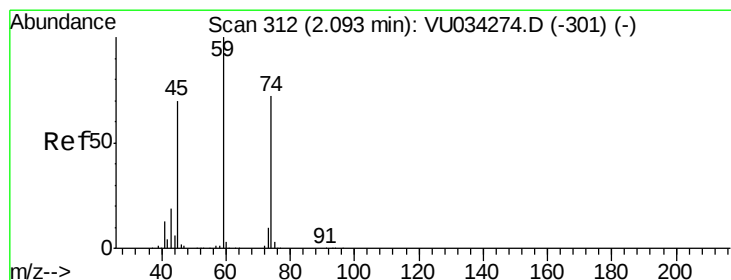
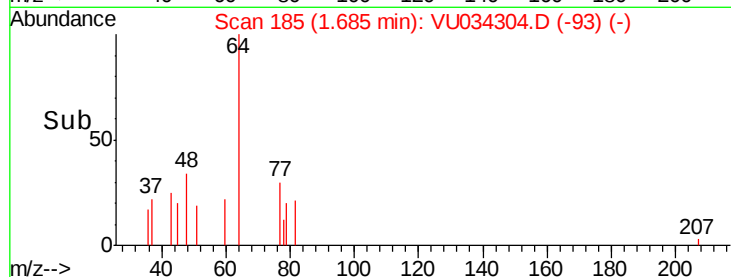
300

200

100

0

Time-->



#8

Diethyl Ether

Concen: 0.577 ug/l

RT: 2.09 min Scan# 311

Delta R.T. -0.00 min

Lab File: VU034304.D

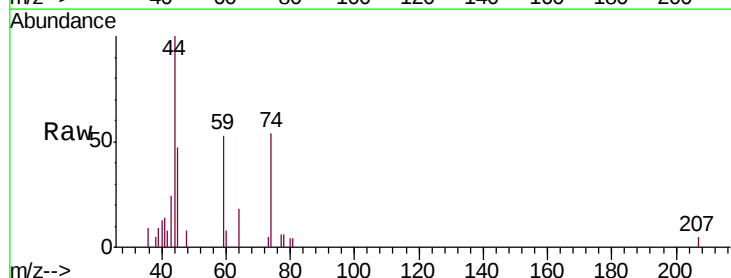
Acq: 05 Sep 2019 23:17

Tgt Ion: 74 Resp: 1909

Ion Ratio Lower Upper

74 100

45 113.3 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

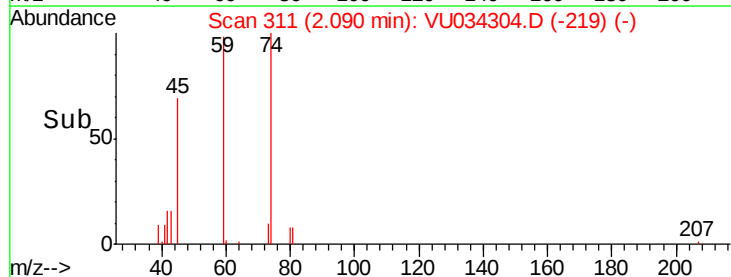
1500

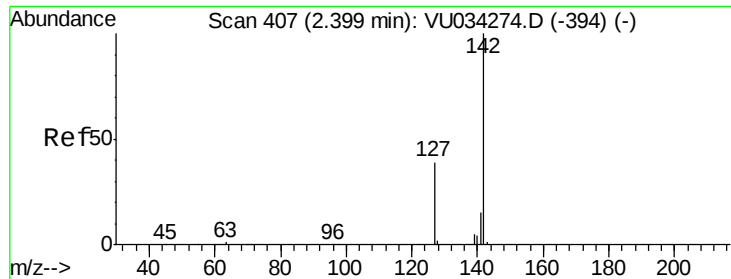
1000

500

0

Time-->

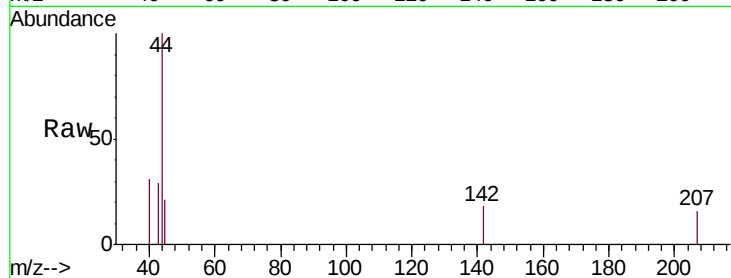




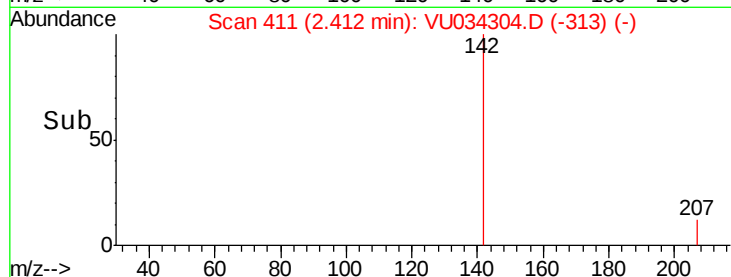
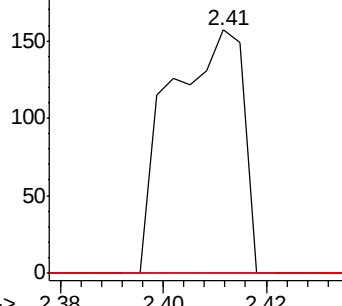
#10
Methyl Iodide
Concen: 3.878 ug/l
RT: 2.41 min Scan# 411
Delta R.T. 0.01 min
Lab File: VU034304.D
Acq: 05 Sep 2019 23:17

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A4-(0)

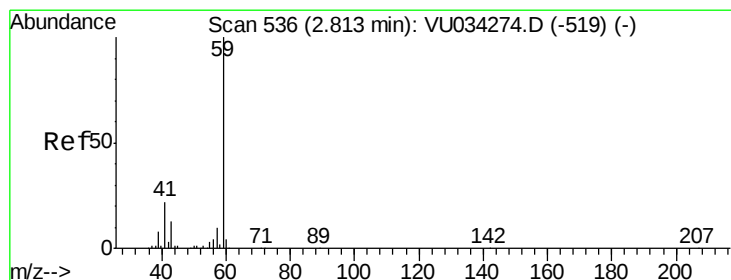
Tgt Ion: 142 Resp: 154
Ion Ratio Lower Upper
142 100
127 0.0 32.1 48.1#
141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

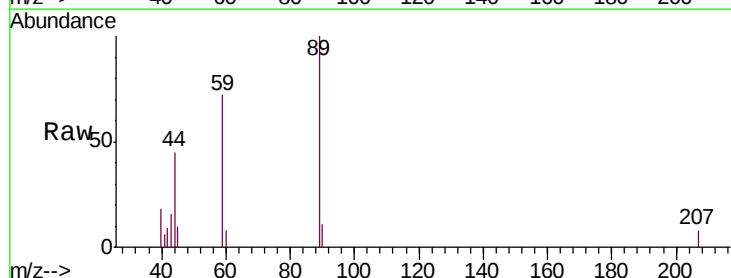


Time-->

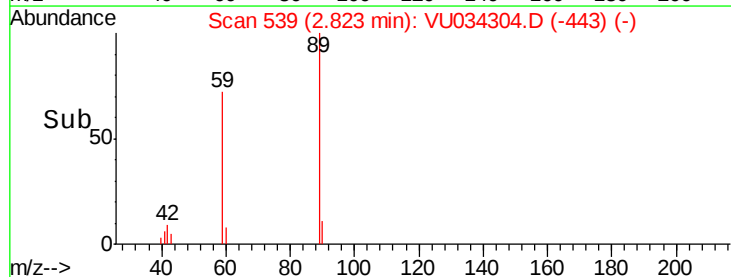
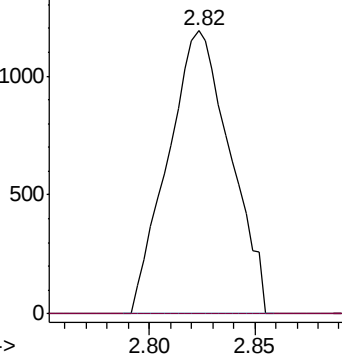


#11
Tert butyl alcohol
Concen: 1.780 ug/l
RT: 2.82 min Scan# 539
Delta R.T. 0.01 min
Lab File: VU034304.D
Acq: 05 Sep 2019 23:17

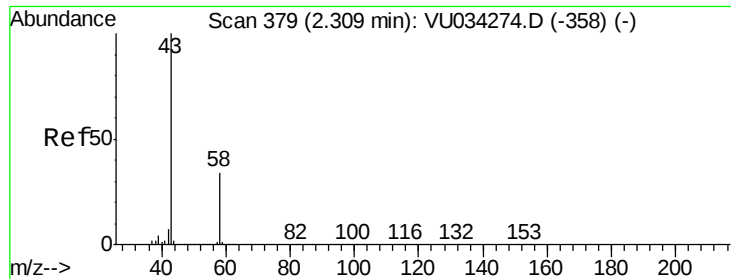
Tgt Ion: 59 Resp: 2448
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 57.00 (56.70 to 57.70): VU0



Time-->



#16

Acetone

Concen: 4.159 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034304.D

Acq: 05 Sep 2019 23:17

Instrument :

MSVOA_U

ClientSampleId :

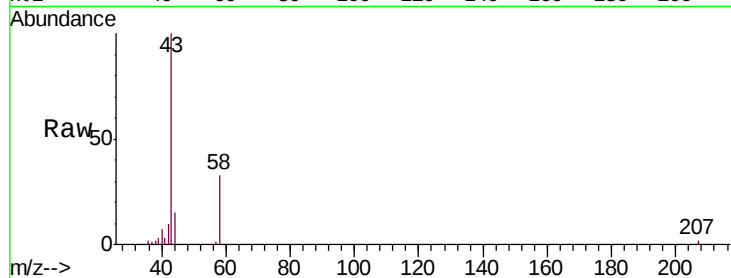
PAR-12-A4-(0)

Tgt Ion: 43 Resp: 14013

Ion Ratio Lower Upper

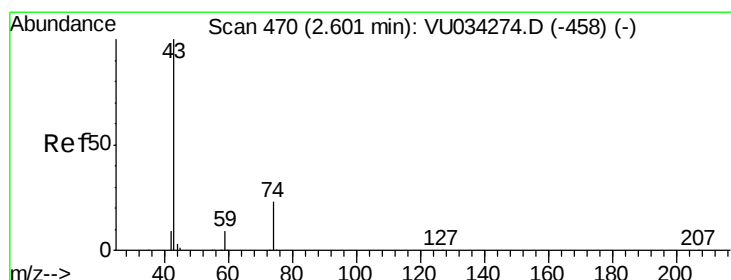
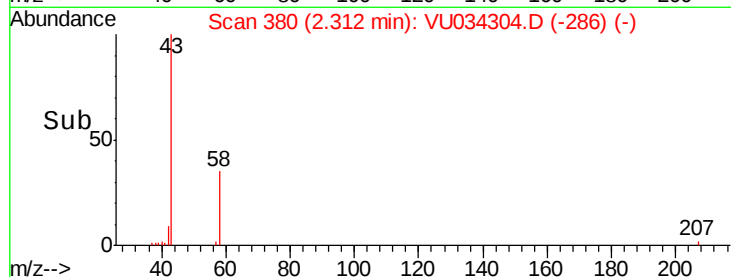
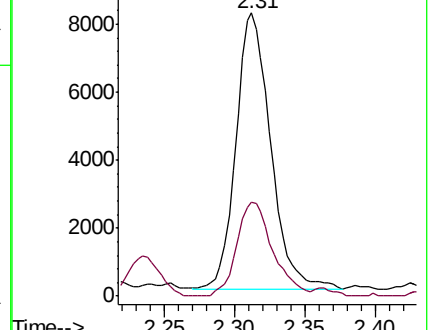
43 100

58 33.9 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034304.D (-380) (-)

Ion 58.00 (57.70 to 58.70): VU034304.D (-380) (-)



#18

Methyl Acetate

Concen: 0.457 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034304.D

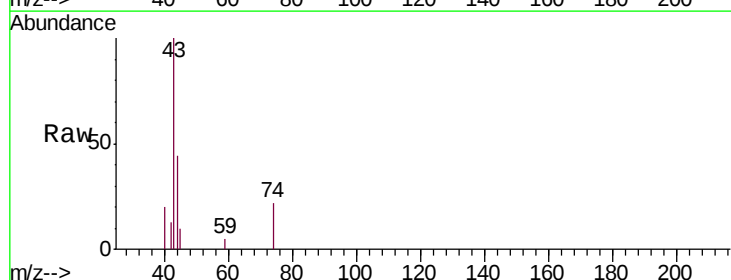
Acq: 05 Sep 2019 23:17

Tgt Ion: 43 Resp: 3744

Ion Ratio Lower Upper

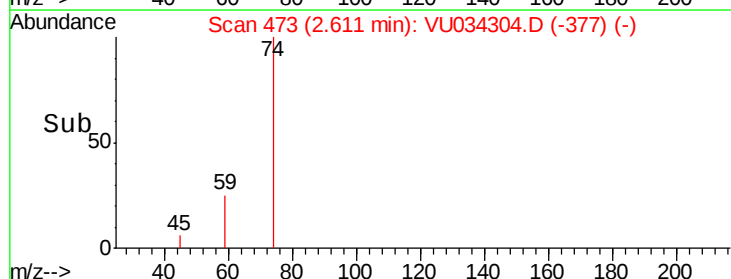
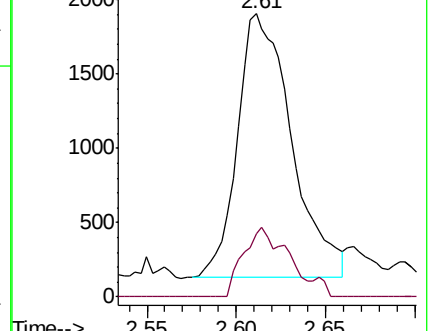
43 100

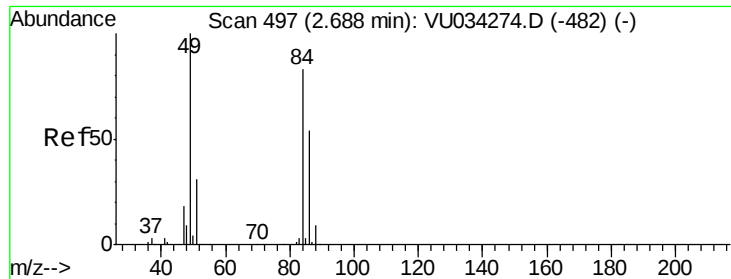
74 21.1 18.9 28.3



Abundance Ion 43.00 (42.70 to 43.70): VU034304.D (-473) (-)

Ion 74.00 (73.70 to 74.70): VU034304.D (-473) (-)

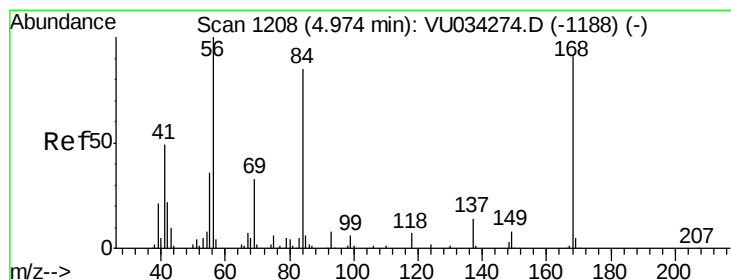
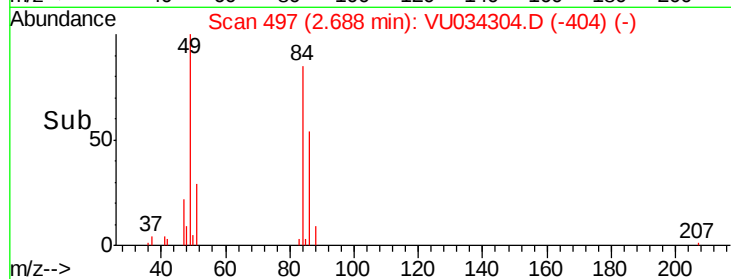
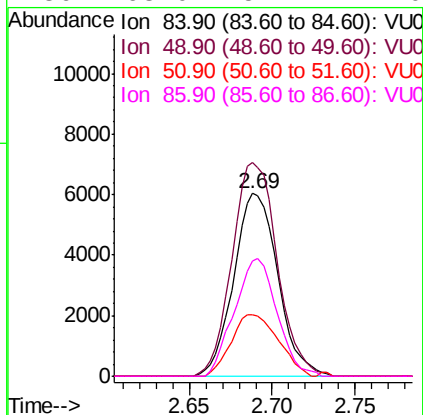
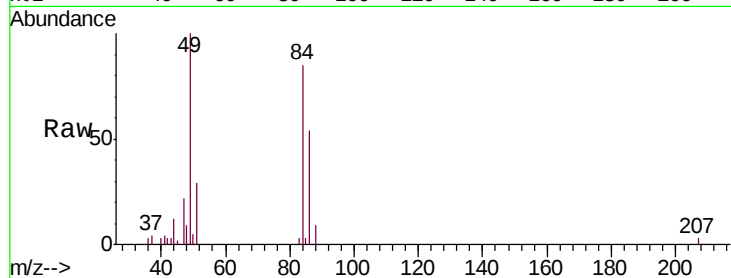




#20
Methylene Chloride
Concen: 1.646 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034304.D
Acq: 05 Sep 2019 23:17

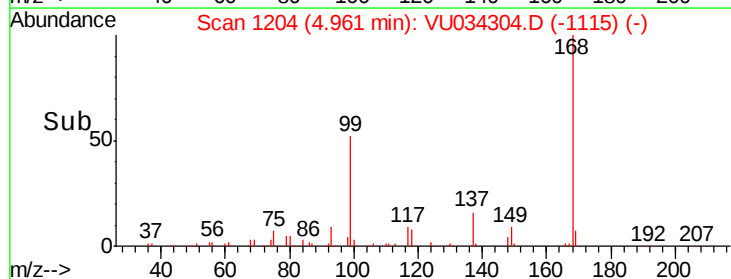
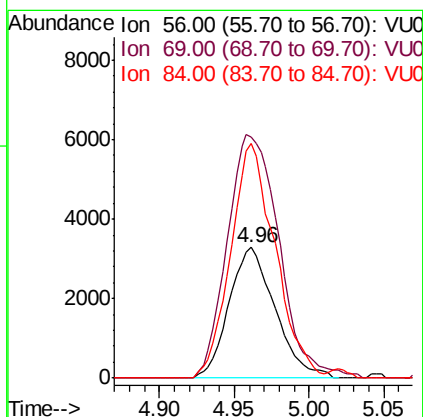
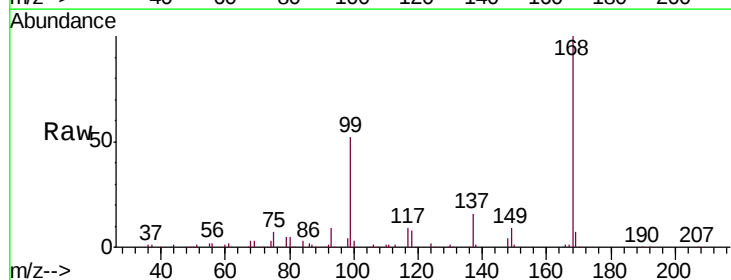
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PAR-12-A4-(0)

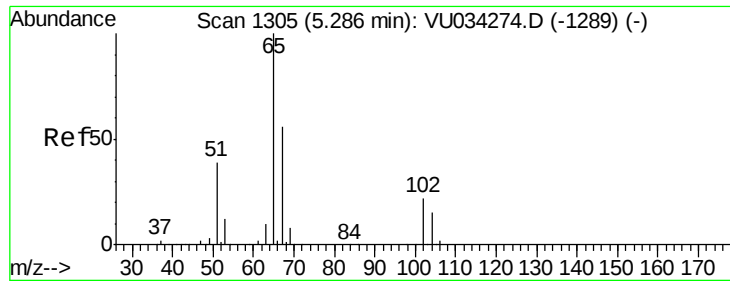
Tgt Ion:	84	Resp:	11218
Ion	Ratio	Lower	Upper
84	100		
49	117.1	96.0	144.0
51	33.8	30.0	45.0
86	63.0	51.4	77.0



#31
Cyclohexane
Concen: 0.924 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034304.D
Acq: 05 Sep 2019 23:17

Tgt Ion:	56	Resp:	7050
Ion	Ratio	Lower	Upper
56	100		
69	184.6	26.7	40.1#
84	179.6	68.2	102.4#

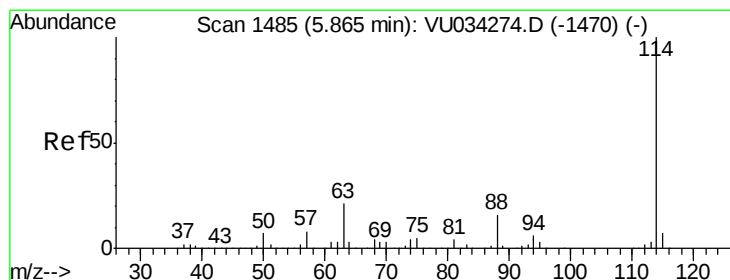
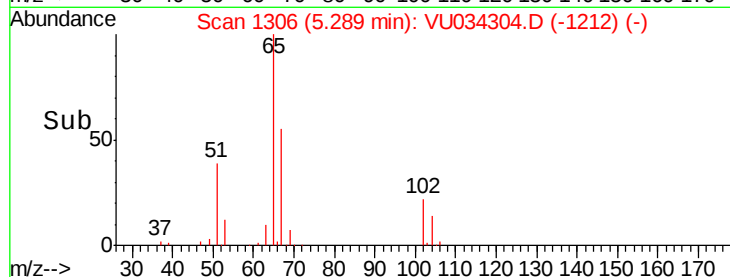
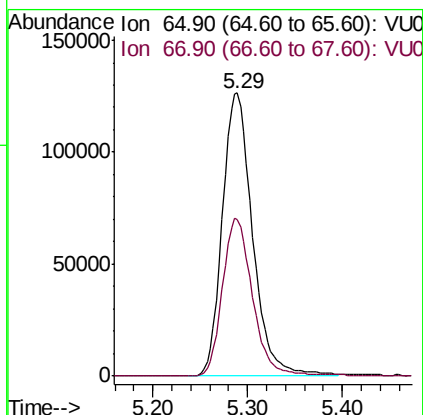
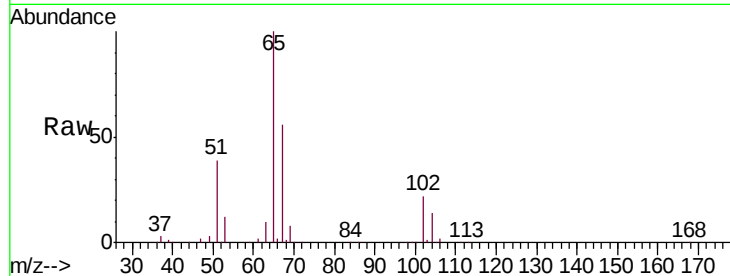




#33
 1,2-Dichloroethane-d4
 Concen: 43.245 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034304.D
 Acq: 05 Sep 2019 23:17

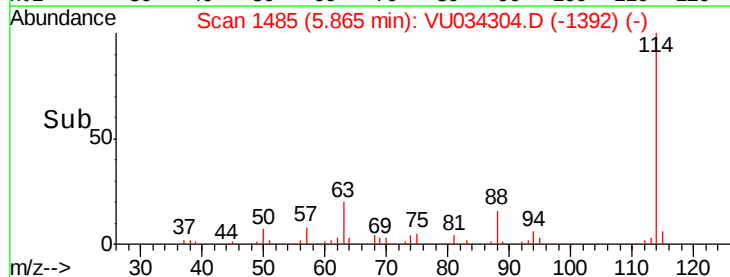
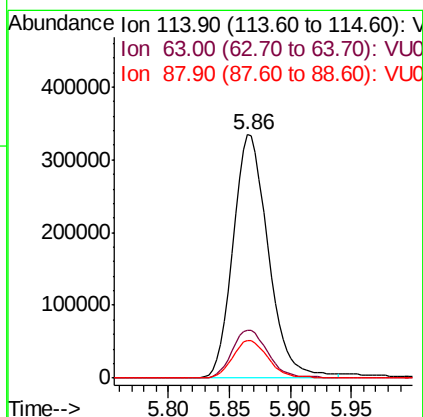
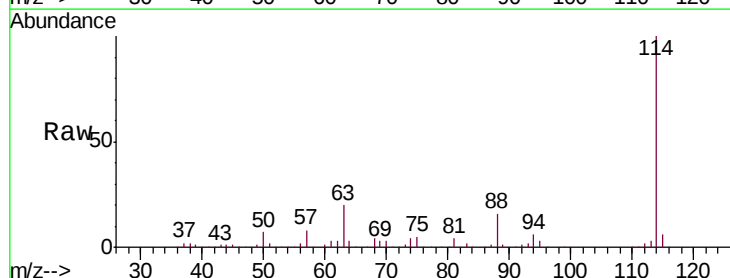
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 PAR-12-A4-(0)

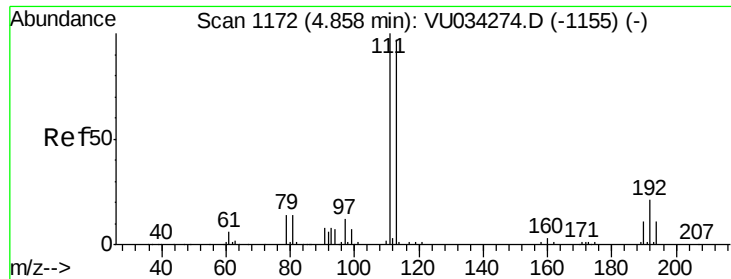
Tgt Ion: 65 Resp: 281594
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034304.D
 Acq: 05 Sep 2019 23:17

Tgt Ion: 114 Resp: 672207
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 42.4
 88 15.7 0.0 32.4

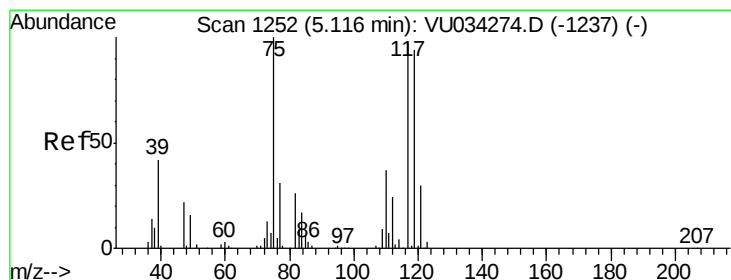
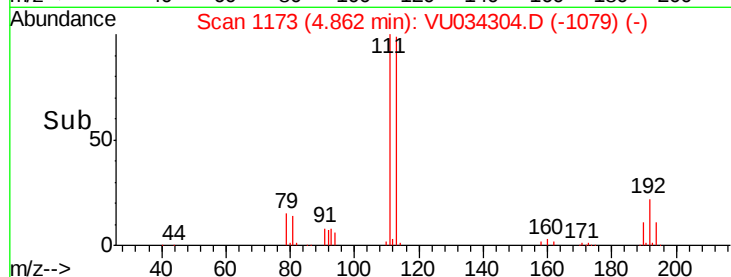
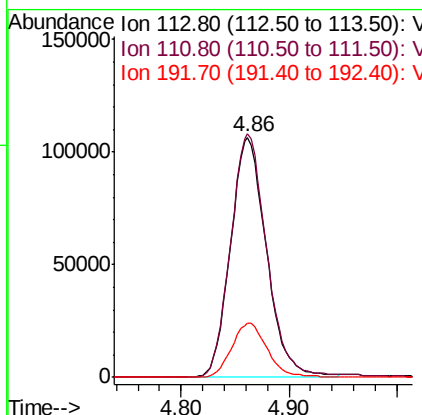
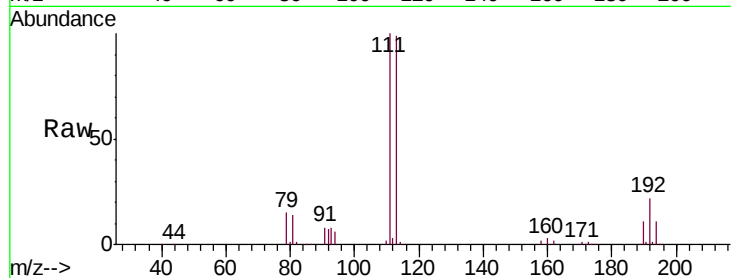




#35
 Dibromofluoromethane
 Concen: 39.498 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034304.D
 Acq: 05 Sep 2019 23:17

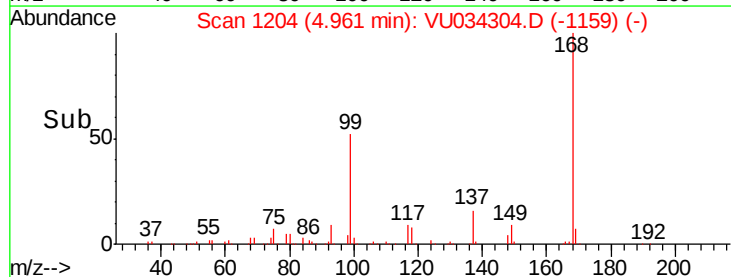
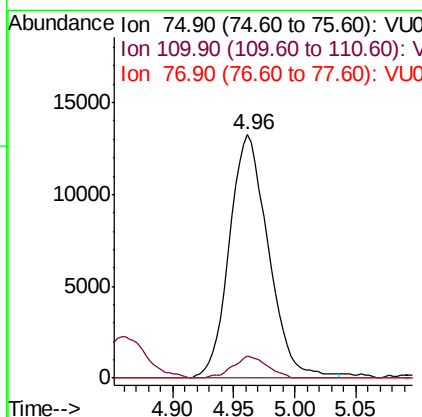
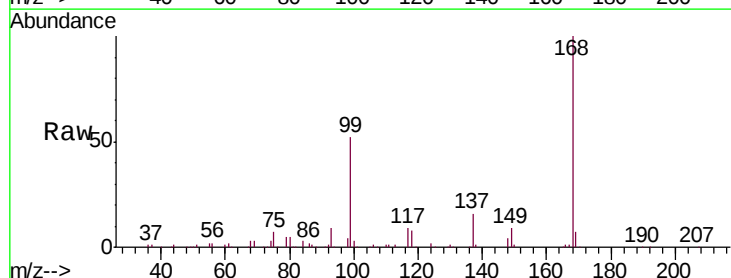
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-A4-(0)

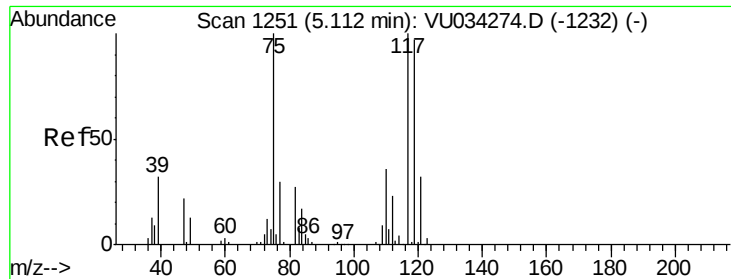
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.5	122.3
192	22.1	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 4.045 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034304.D
 Acq: 05 Sep 2019 23:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	18.3	54.9#
77	0.0	24.9	37.3#

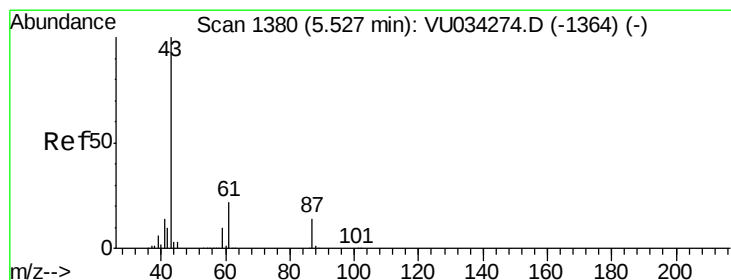
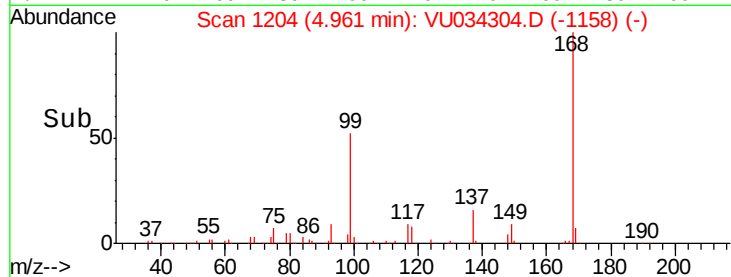
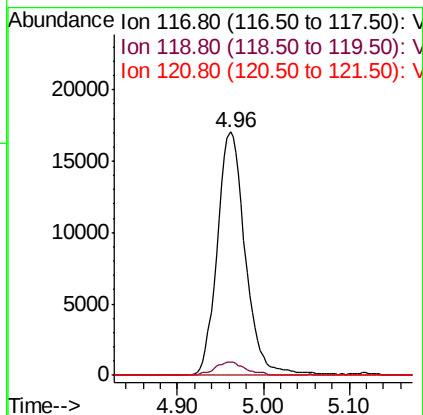
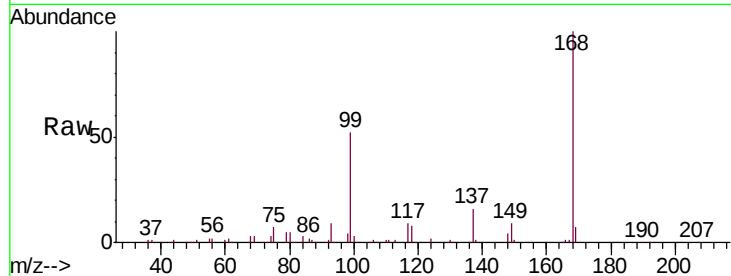




#38
Carbon Tetrachloride
Concen: 4.982 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.15 min
Lab File: VU034304.D
Acq: 05 Sep 2019 23:17

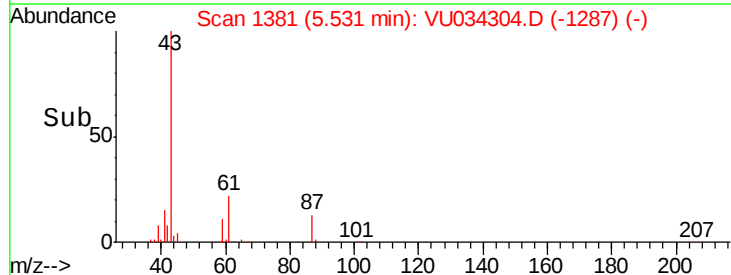
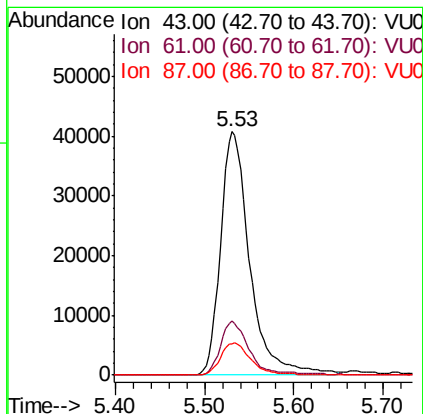
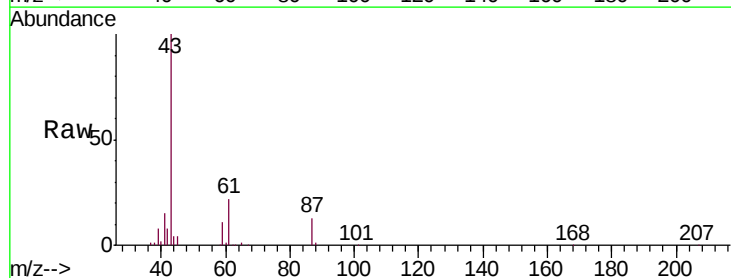
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A4-(0)

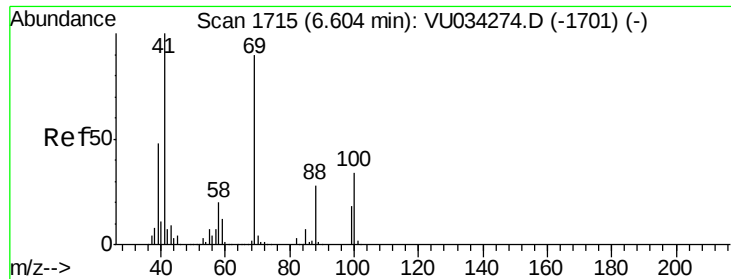
Tgt Ion: 117 Resp: 38781
Ion Ratio Lower Upper
117 100
119 5.6 77.8 116.6#
121 0.0 25.2 37.8#



#43
Isopropyl Acetate
Concen: 6.885 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU034304.D
Acq: 05 Sep 2019 23:17

Tgt Ion: 43 Resp: 92575
Ion Ratio Lower Upper
43 100
61 21.6 17.1 25.7
87 13.7 11.1 16.7

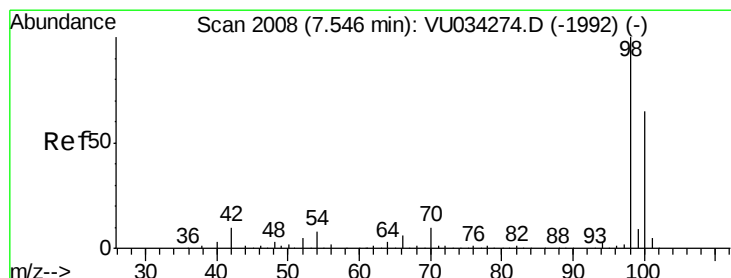
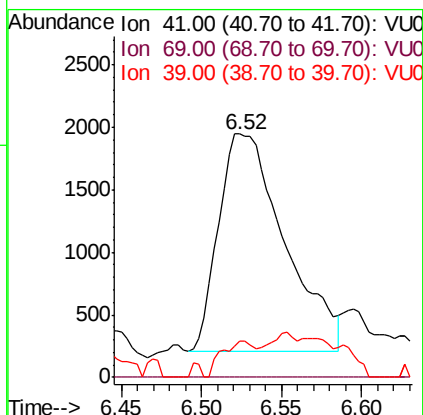
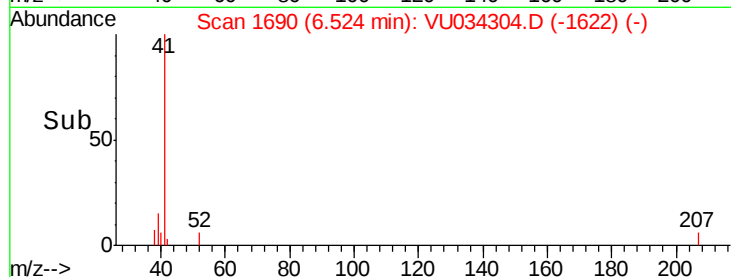
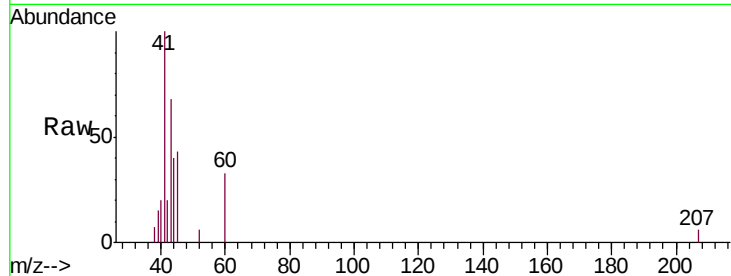




#48
Methyl methacrylate
Concen: 0.774 ug/l
RT: 6.52 min Scan# 1690
Delta R.T. -0.08 min
Lab File: VU034304.D
Acq: 05 Sep 2019 23:17

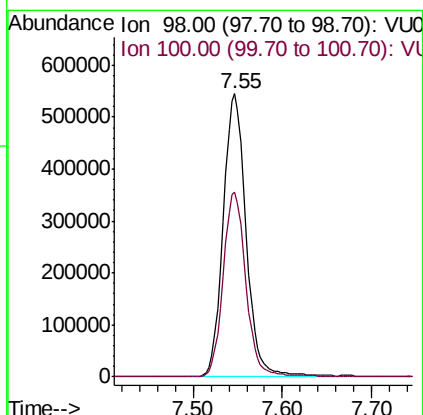
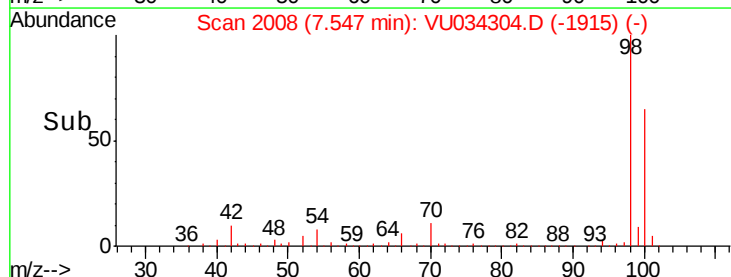
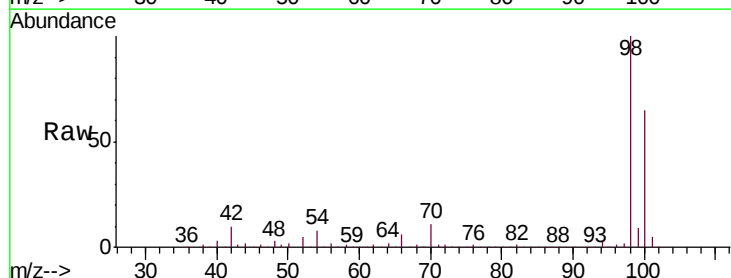
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A4-(0)

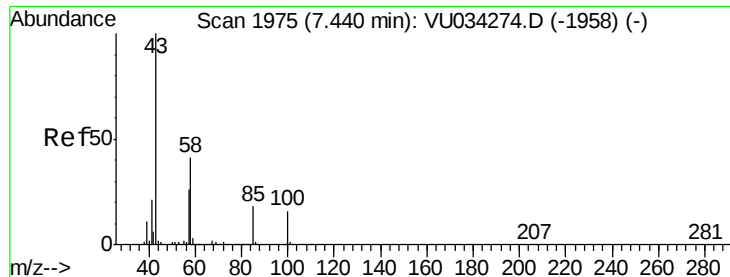
Tgt Ion: 41 Resp: 4946
Ion Ratio Lower Upper
41 100
69 0.0 72.8 109.2#
39 0.0 38.6 58.0#



#50
Toluene-d8
Concen: 41.404 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034304.D
Acq: 05 Sep 2019 23:17

Tgt Ion: 98 Resp: 972983
Ion Ratio Lower Upper
98 100
100 65.0 51.7 77.5

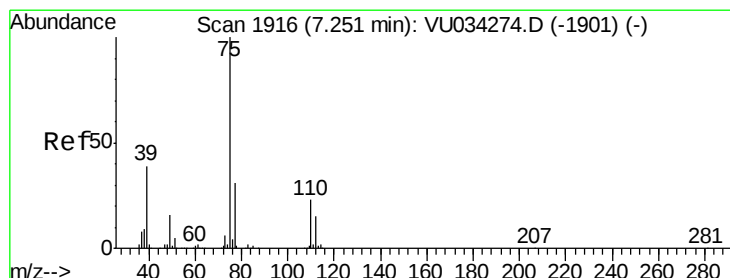
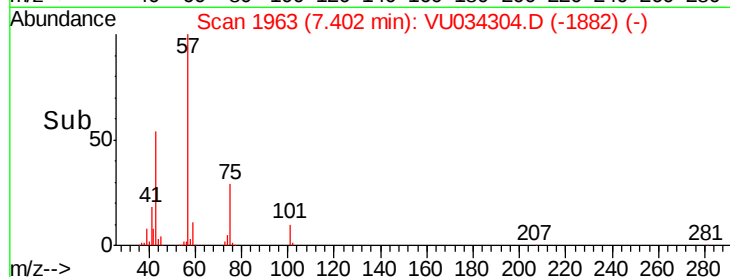
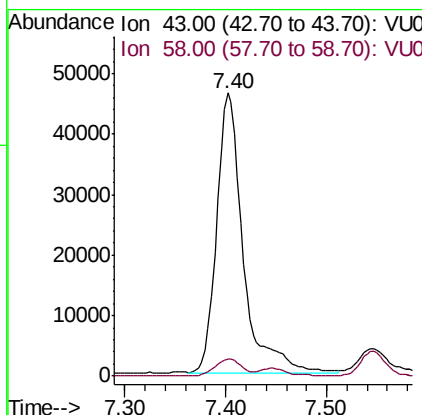
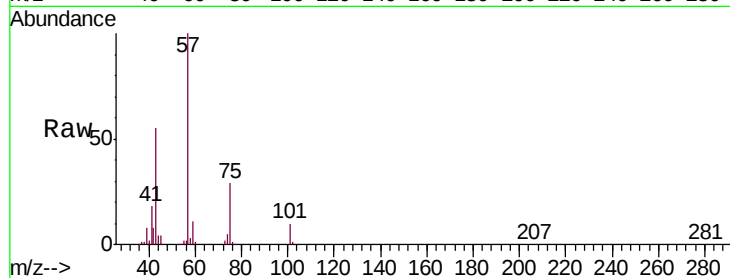




#51
 4-Methyl-2-Pentanone
 Concen: 9.073 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034304.D
 Acq: 05 Sep 2019 23:17

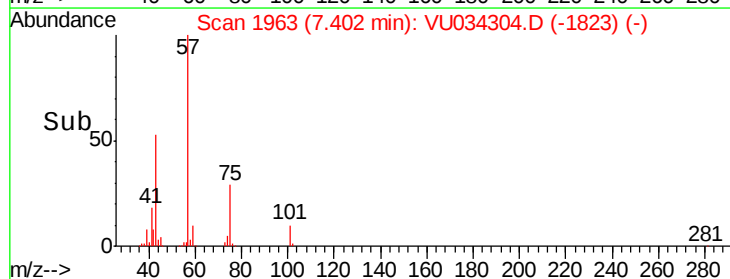
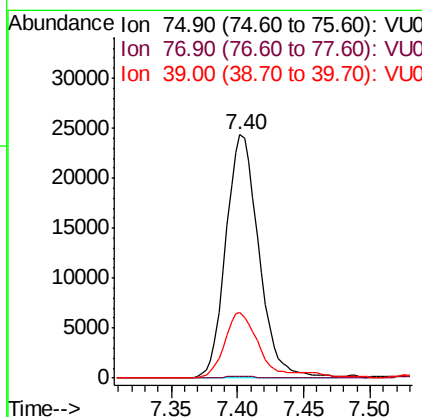
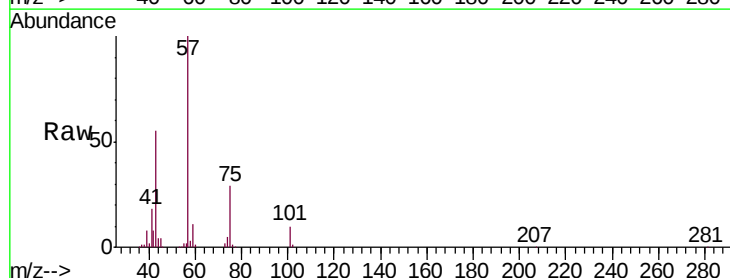
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-A4-(0)

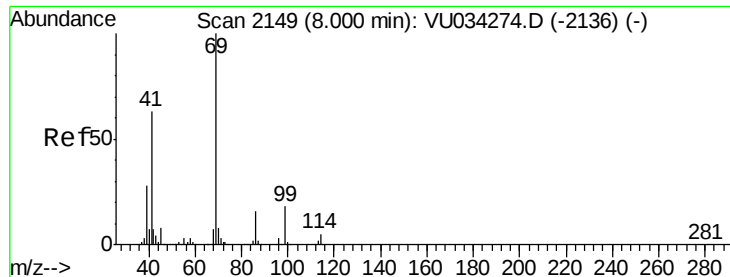
Tgt Ion: 43 Resp: 84441
 Ion Ratio Lower Upper
 43 100
 58 6.3 33.0 49.4#



#54
 cis-1,3-Dichloropropene
 Concen: 4.181 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034304.D
 Acq: 05 Sep 2019 23:17

Tgt Ion: 75 Resp: 42270
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.1 37.7#
 39 26.7 31.2 46.8#

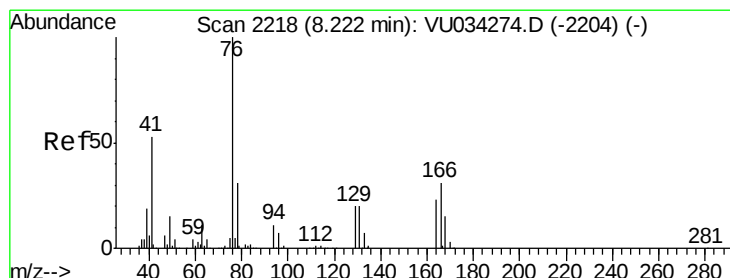
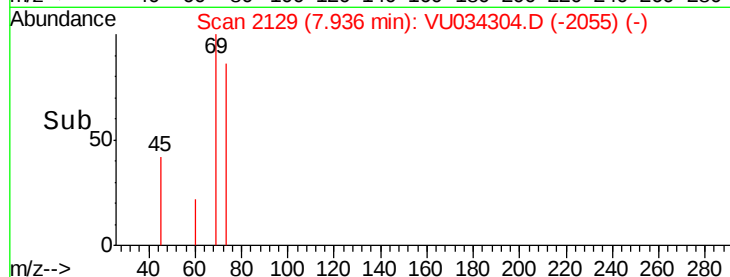
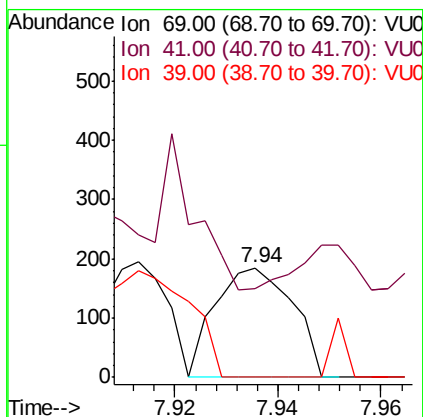
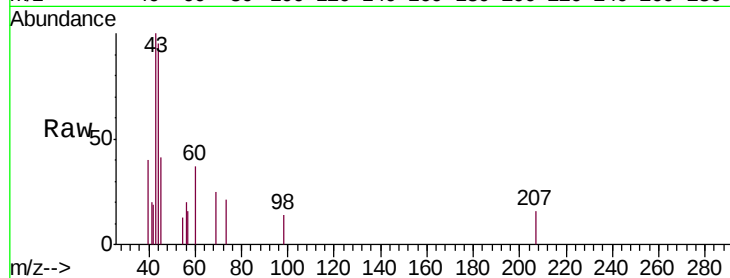




#56
Ethyl methacrylate
Concen: 3.094 ug/l
RT: 7.94 min Scan# 2129
Delta R.T. -0.06 min
Lab File: VU034304.D
Acq: 05 Sep 2019 23:17

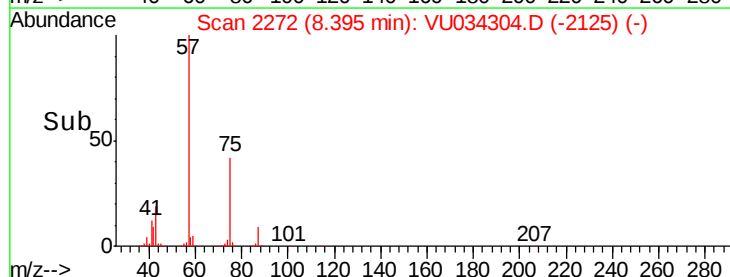
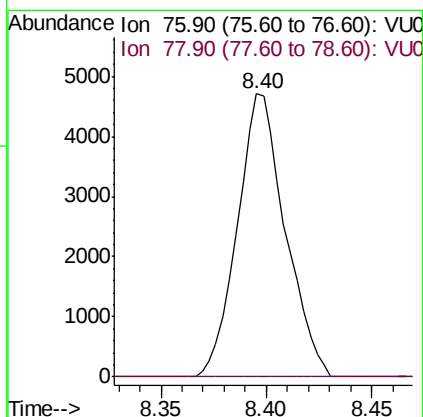
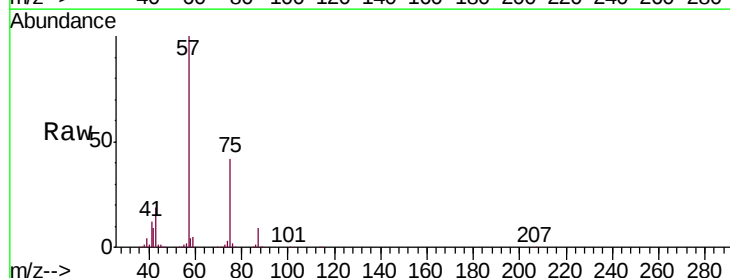
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A4-(0)

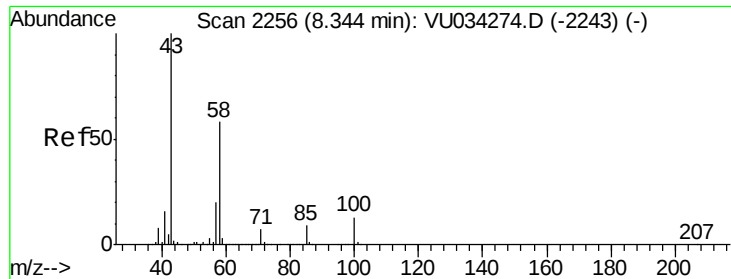
Tgt Ion: 69 Resp: 193
Ion Ratio Lower Upper
69 100
41 0.0 49.5 74.3#
39 0.0 22.5 33.7#



#57
1,3-Dichloropropane
Concen: 0.680 ug/l
RT: 8.40 min Scan# 2272
Delta R.T. 0.17 min
Lab File: VU034304.D
Acq: 05 Sep 2019 23:17

Tgt Ion: 76 Resp: 7423
Ion Ratio Lower Upper
76 100
78 0.0 25.4 38.2#

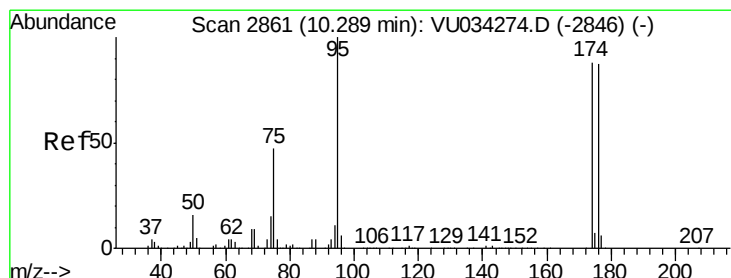
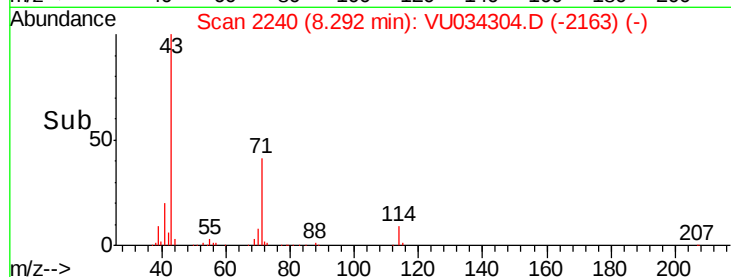
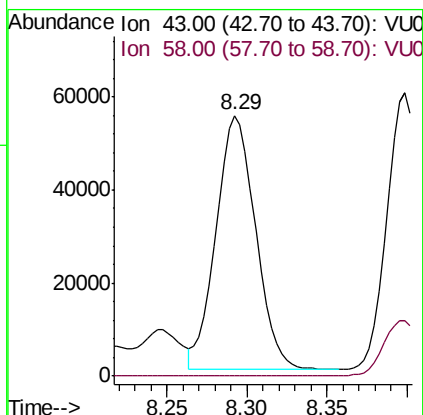
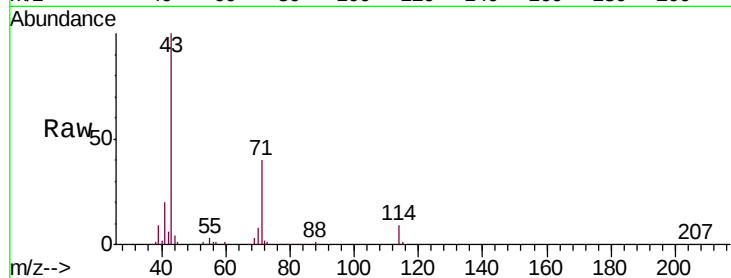




#59
2-Hexanone
Concen: 13.344 ug/l
RT: 8.29 min Scan# 2240
Delta R.T. -0.05 min
Lab File: VU034304.D
Acq: 05 Sep 2019 23:17

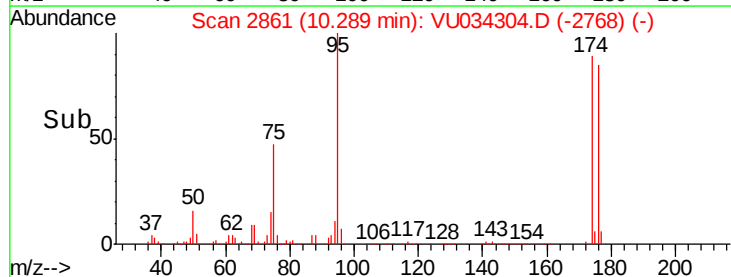
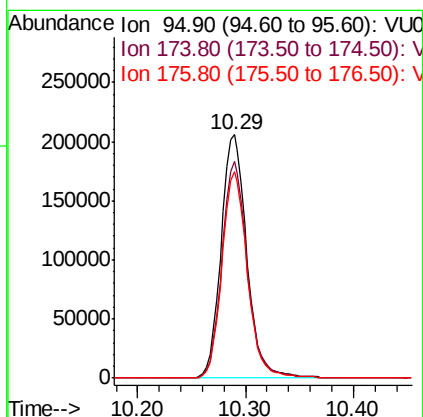
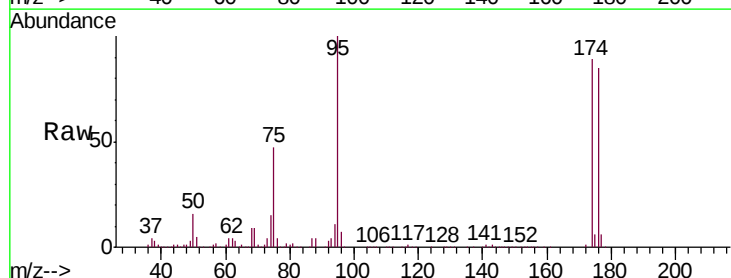
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A4-(0)

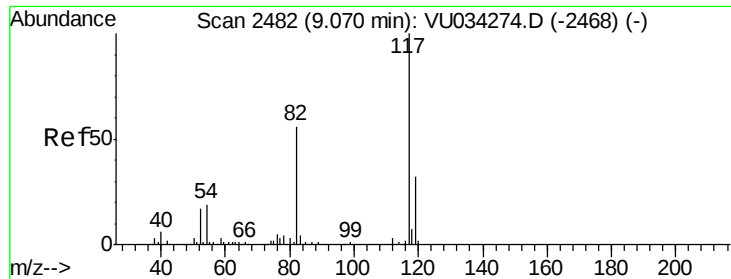
Tgt Ion: 43 Resp: 92784
Ion Ratio Lower Upper
43 100
58 0.0 28.8 86.5#



#62
4-Bromofluorobenzene
Concen: 37.573 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034304.D
Acq: 05 Sep 2019 23:17

Tgt Ion: 95 Resp: 340902
Ion Ratio Lower Upper
95 100
174 88.4 0.0 175.2
176 83.9 0.0 168.0

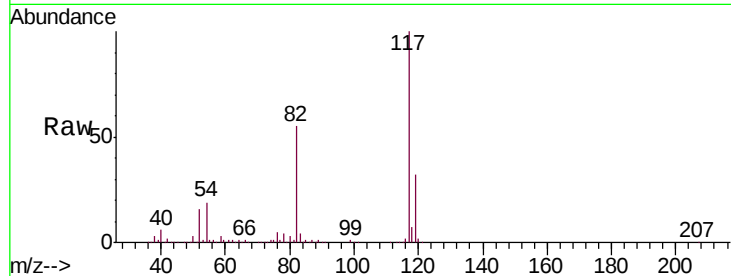




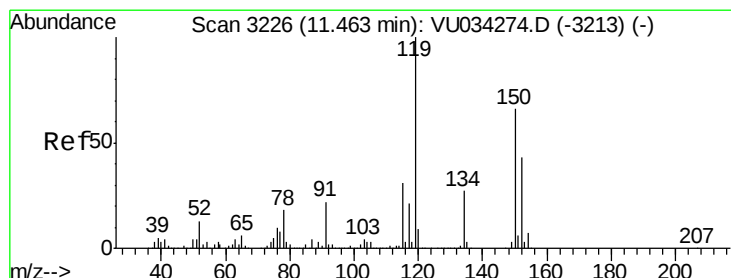
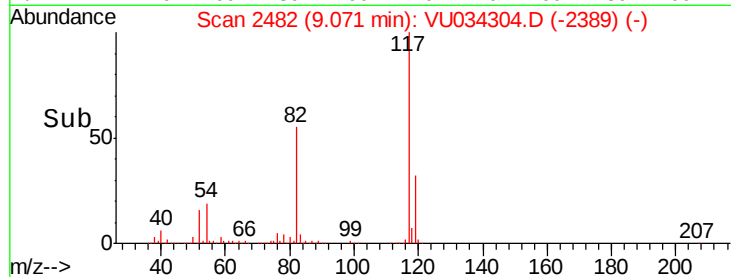
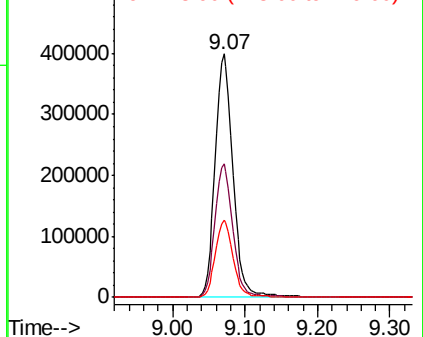
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.07 min Scan# 2482
 Delta R.T. 0.00 min
 Lab File: VU034304.D
 Acq: 05 Sep 2019 23:17

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-A4-(0)

Tgt Ion:117 Resp: 683211
 Ion Ratio Lower Upper
 117 100
 82 55.0 44.6 67.0
 119 31.7 25.9 38.9

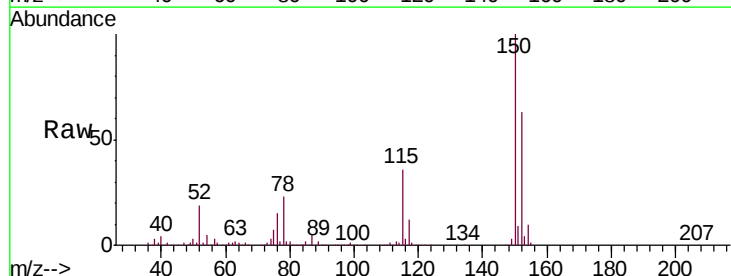


Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): V
 Ion 118.90 (118.60 to 119.60): V

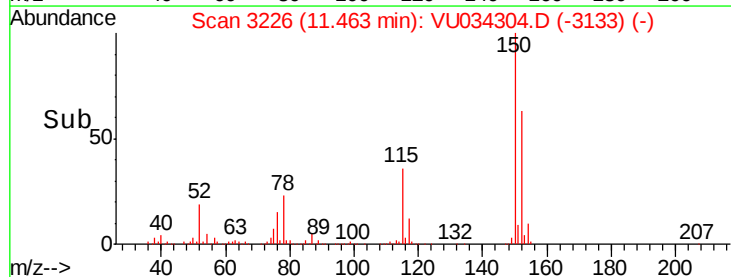
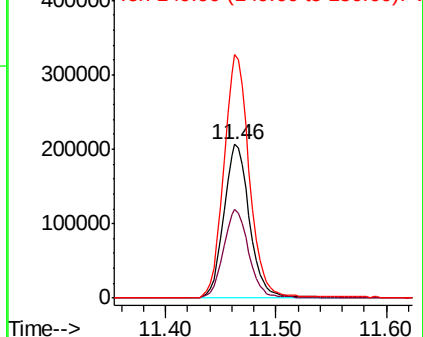


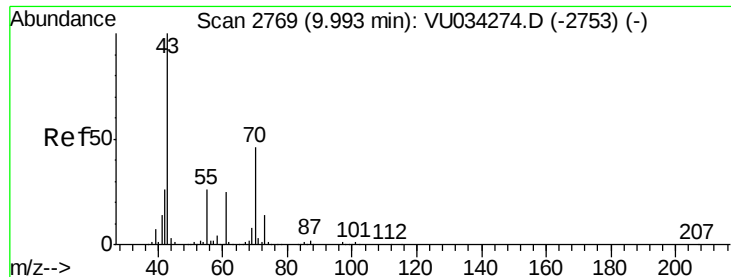
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.46 min Scan# 3226
 Delta R.T. 0.00 min
 Lab File: VU034304.D
 Acq: 05 Sep 2019 23:17

Tgt Ion:152 Resp: 333718
 Ion Ratio Lower Upper
 152 100
 115 57.0 39.1 117.3
 150 157.1 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-amyI acetate

Concen: 0.240 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034304.D

Acq: 05 Sep 2019 23:17

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-A4-(0)

Tgt Ion: 43 Resp: 2094

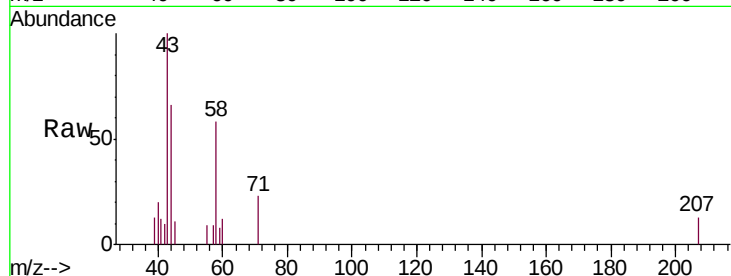
Ion Ratio Lower Upper

43 100

70 0.0 36.4 54.6#

55 6.5 21.2 31.8#

61 0.0 20.4 30.6#

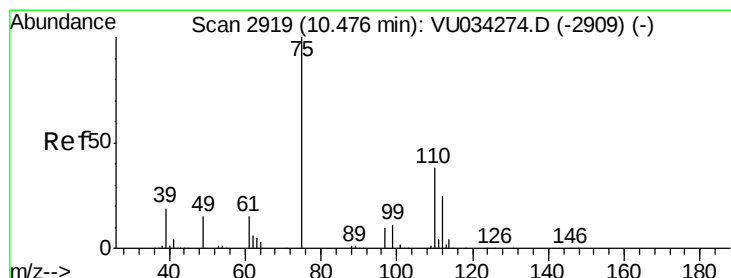
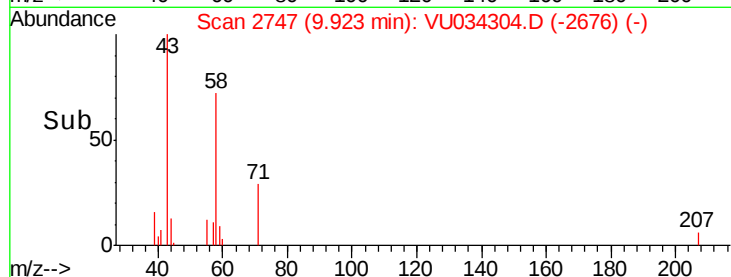
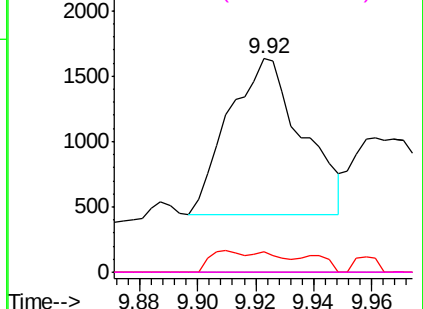


Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 21.933 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034304.D

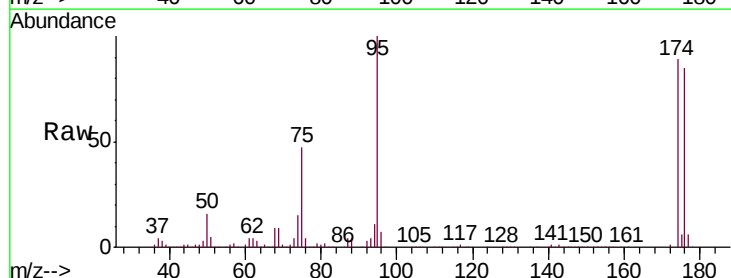
Acq: 05 Sep 2019 23:17

Tgt Ion: 75 Resp: 159770

Ion Ratio Lower Upper

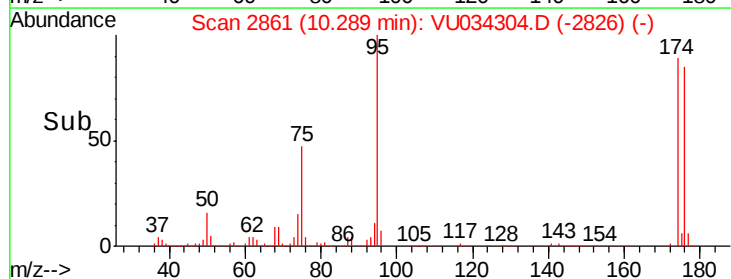
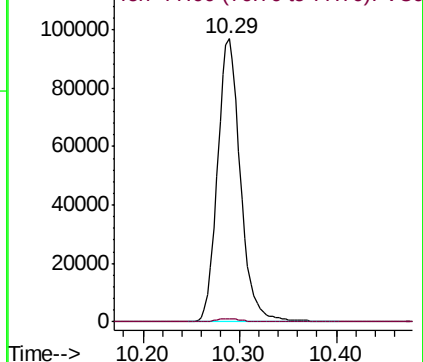
75 100

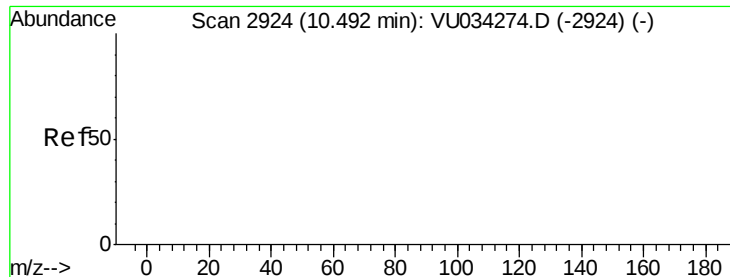
77 1.1 20.8 62.2#



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: 73.759 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034304.D

Acq: 05 Sep 2019 23:17

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-A4-(0)

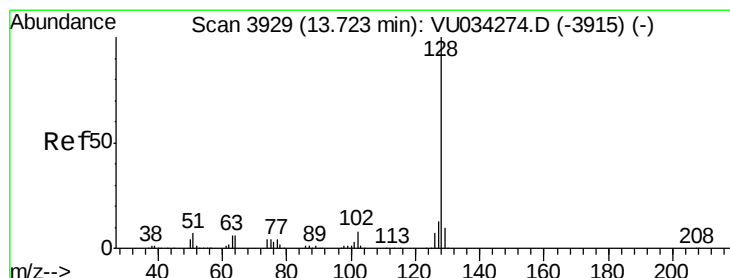
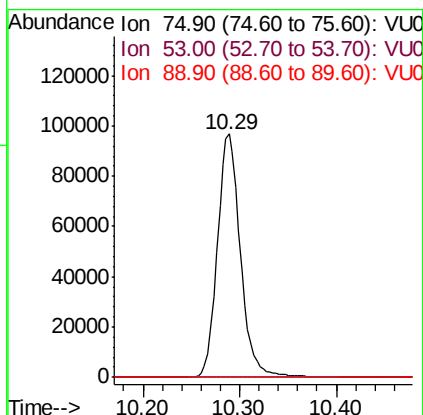
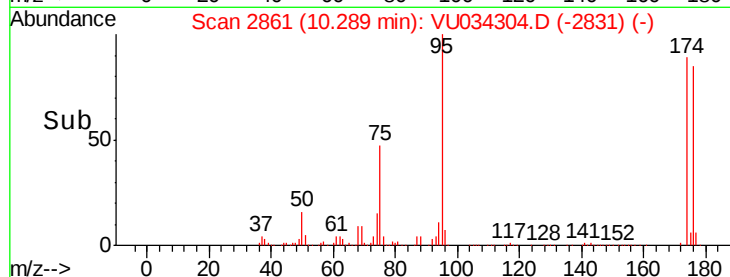
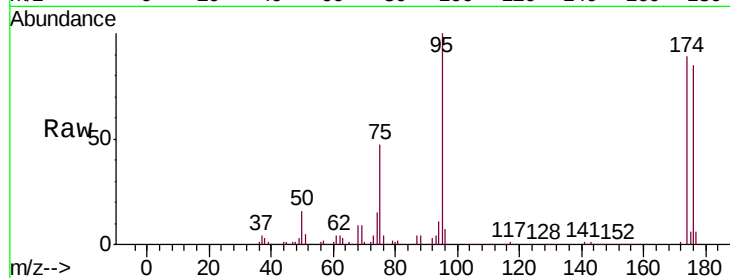
Tgt Ion: 75 Resp: 159770

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

89 0.0 0.0 0.0



#95

Naphthalene

Concen: 3.969 ug/l

RT: 13.79 min Scan# 3951

Delta R.T. 0.07 min

Lab File: VU034304.D

Acq: 05 Sep 2019 23:17

Tgt Ion: 128 Resp: 65

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.4 12.6#

