

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091019\
 Data File : VU034460.D
 Acq On : 10 Sep 2019 18:40
 Operator : JC/SP
 Sample : K4603-24
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-E3-(0)

Quant Time: Sep 11 05:57:57 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	223746	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	346757	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	377496	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	201707	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	202254	59.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.48%	
35) Dibromofluoromethane	4.86	113	176773	54.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.58%	
50) Toluene-d8	7.55	98	617782	50.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.92%	
62) 4-Bromofluorobenzene	10.29	95	208459	44.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.08%	

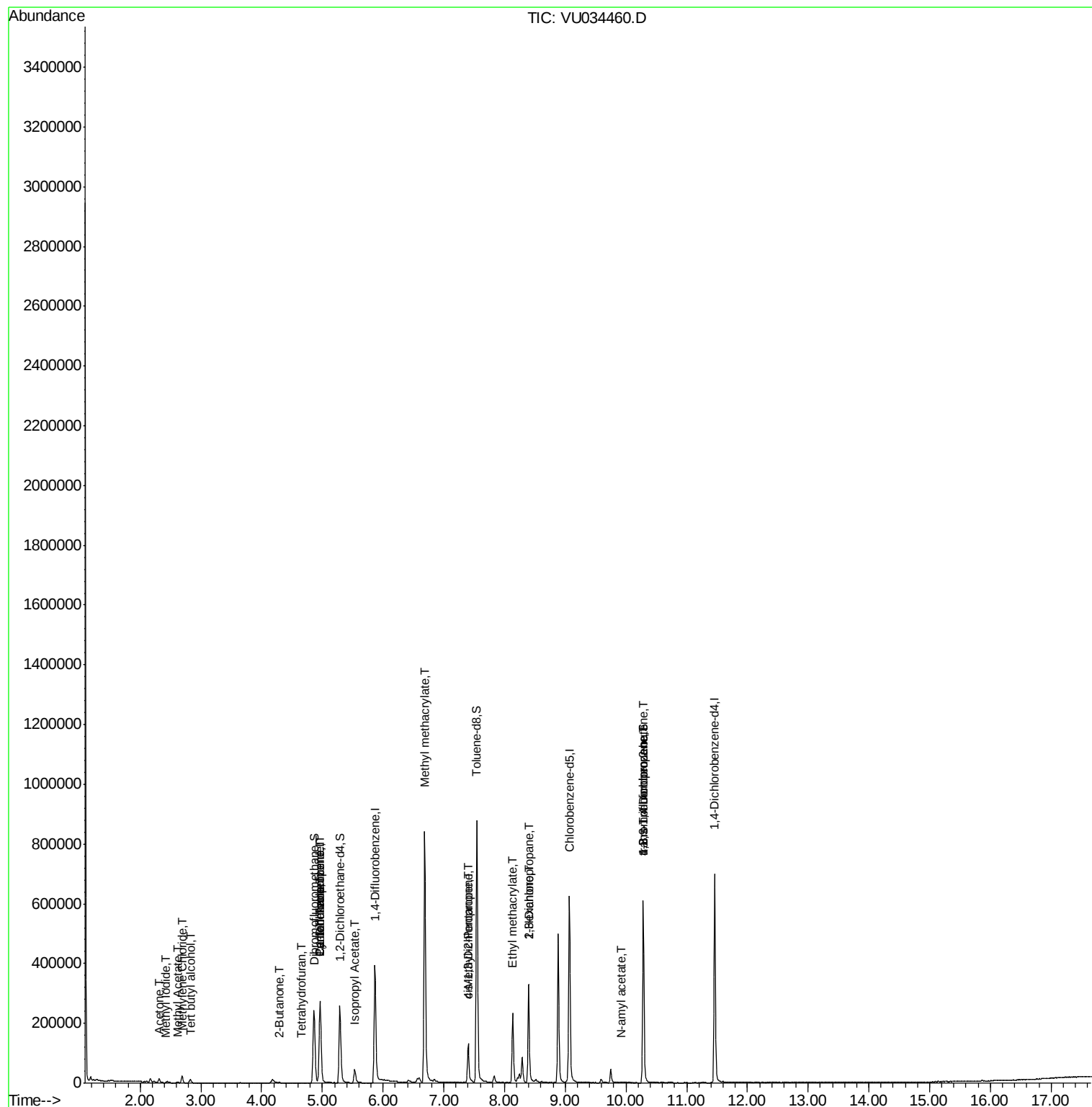
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.60	94	20	Below Cal		94
6) Chloroethane	1.70	64	170	Below Cal	#	43
10) Methyl Iodide	2.41	142	105	3.887	ug/l #	43
11) Tert butyl alcohol	2.83	59	6811	9.523	ug/l #	73
16) Acetone	2.31	43	15345	8.759	ug/l	94
18) Methyl Acetate	2.61	43	4016	0.942	ug/l #	84
20) Methylene Chloride	2.69	84	11357	3.587	ug/l	93
25) 2-Butanone	4.28	43	664	0.284	ug/l #	48
29) Tetrahydrofuran	4.66	42	287	0.202	ug/l #	32
31) Cyclohexane	4.96	56	3643	0.919	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	15758	4.190	ug/l #	49
38) Carbon Tetrachloride	4.96	117	20644	5.141	ug/l #	16
43) Isopropyl Acetate	5.53	43	52078	7.508	ug/l	98
48) Methyl methacrylate	6.68	41	76029	23.078	ug/l #	37
51) 4-Methyl-2-Pentanone	7.40	43	50885	10.598	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	24117	4.625	ug/l #	66
56) Ethyl methacrylate	8.13	69	1765	3.392	ug/l #	1
57) 1,3-Dichloropropane	8.40	76	3426	0.609	ug/l #	43
59) 2-Hexanone	8.40	43	44304	12.352	ug/l #	56
74) N-amyl acetate	9.92	43	1931	0.365	ug/l #	43
76) 1,2,3-Trichloropropane	10.29	75	99198	22.530	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	99198	75.767	ug/l #	100

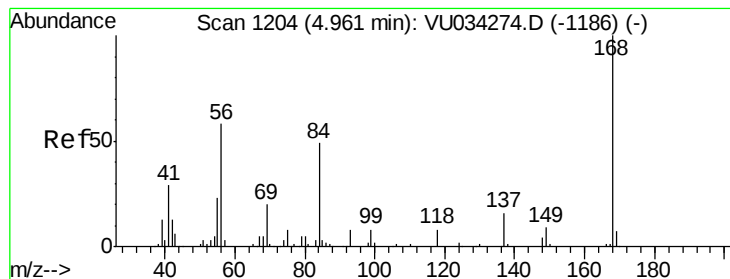
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034460.D

Acq: 10 Sep 2019 18:40

Instrument :

MSVOA_U

ClientSampleId :

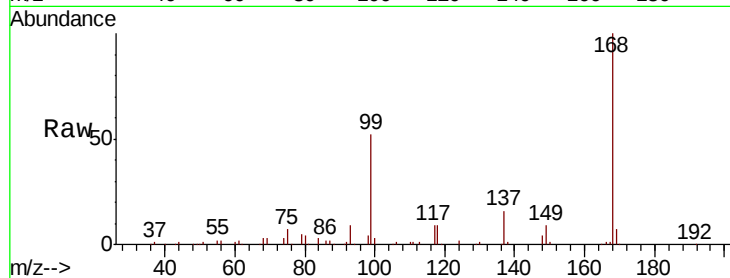
PAR-E3-(0)

Tgt Ion:168 Resp: 223746

Ion Ratio Lower Upper

168 100

99 51.9 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034460.D (-1111) (-)

Ion 98.90 (98.60 to 99.60): VU034460.D (-1111) (-)

4.96

100000

80000

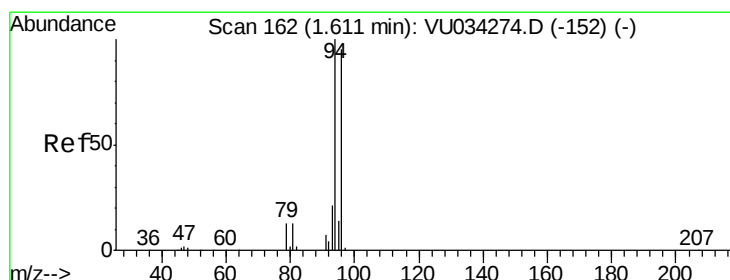
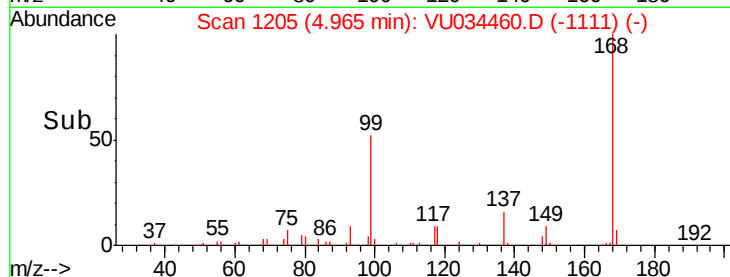
60000

40000

20000

0

Time--> 4.85 4.90 4.95 5.00 5.05



#5

Bromomethane

Concen: Below Cal

RT: 1.60 min Scan# 159

Delta R.T. -0.01 min

Lab File: VU034460.D

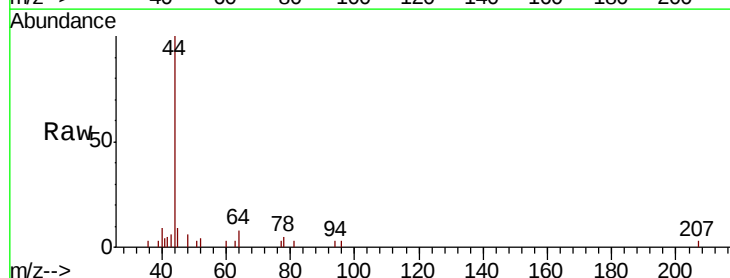
Acq: 10 Sep 2019 18:40

Tgt Ion: 94 Resp: 20

Ion Ratio Lower Upper

94 100

96 100.0 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034460.D (-68) (-)

Ion 95.90 (95.60 to 96.60): VU034460.D (-68) (-)

1.60

120

100

80

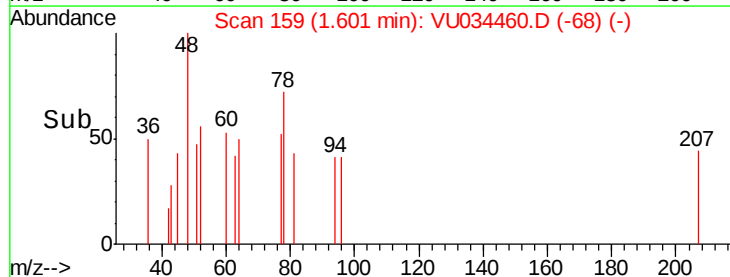
60

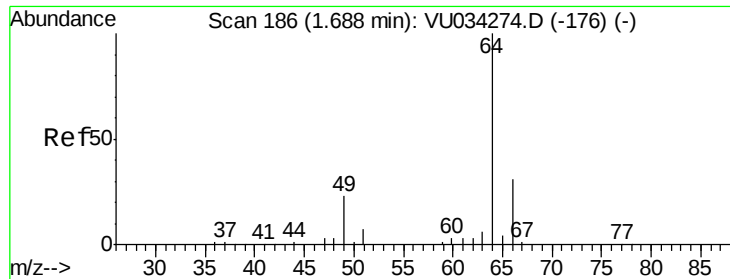
40

20

0

Time--> 1.59 1.60 1.61 1.61





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 190

Delta R.T. 0.01 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

Instrument :

MSVOA_U

ClientSampleId :

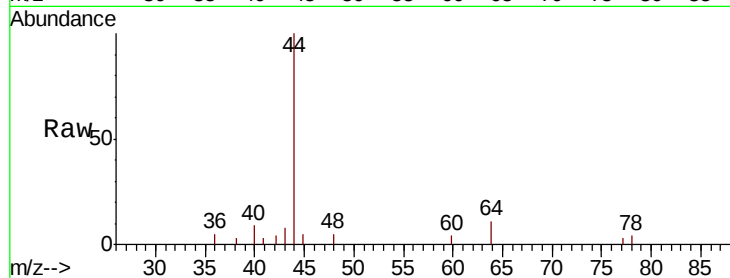
PAR-E3-(0)

Tgt Ion: 64 Resp: 170

Ion Ratio Lower Upper

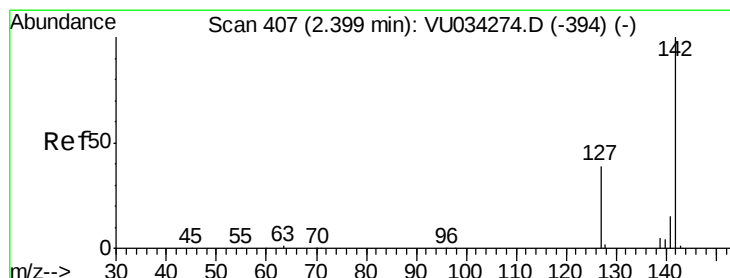
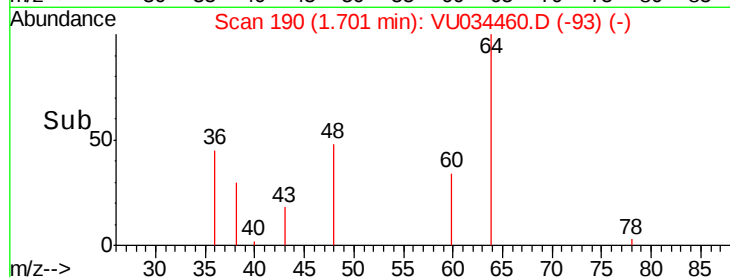
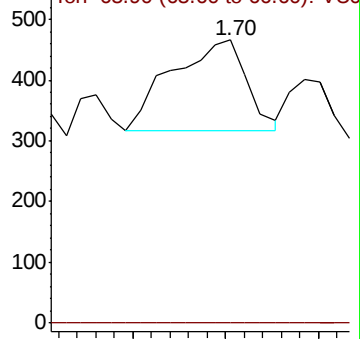
64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



#10

Methyl Iodide

Concen: 3.887 ug/l

RT: 2.41 min Scan# 412

Delta R.T. 0.02 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

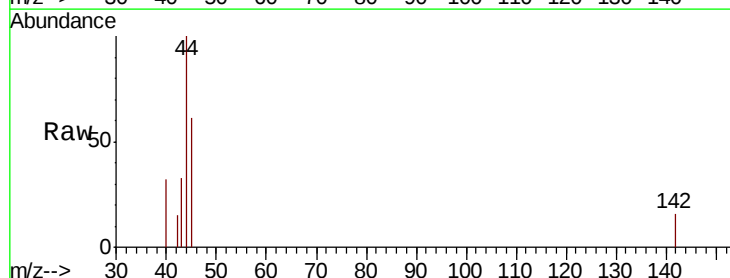
Tgt Ion: 142 Resp: 105

Ion Ratio Lower Upper

142 100

127 0.0 32.1 48.1#

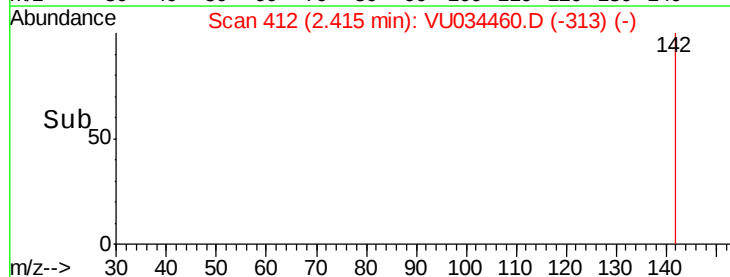
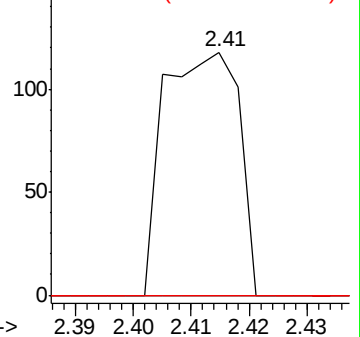
141 0.0 11.5 17.3#

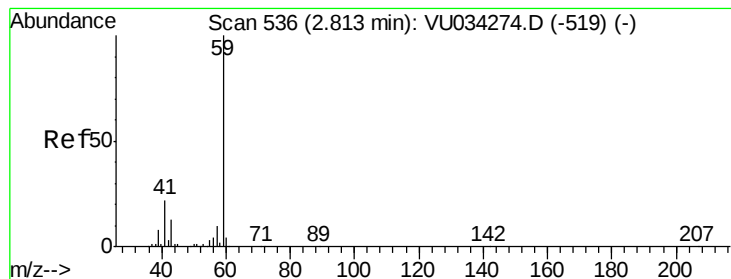


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



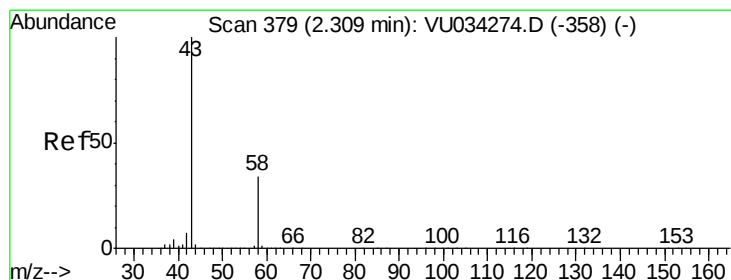
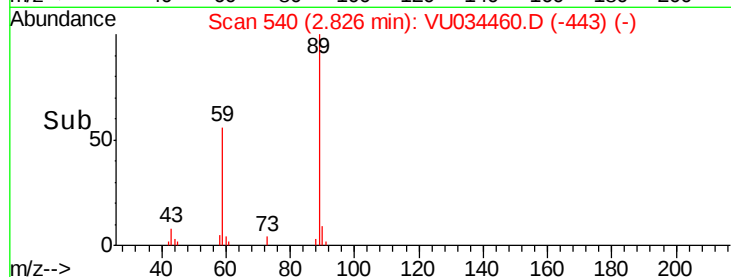
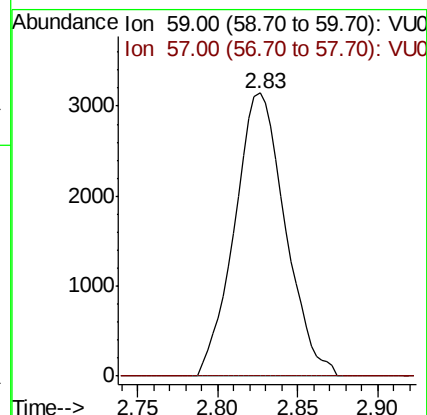
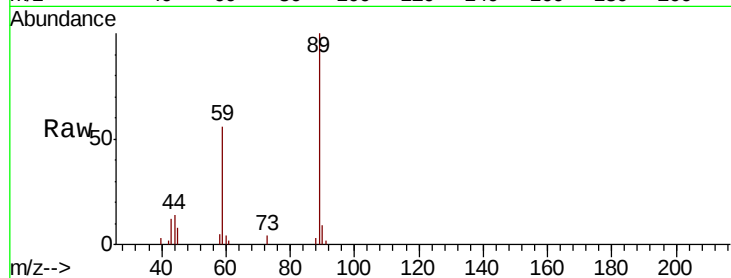


#11

Tert butyl alcohol
 Concen: 9.523 ug/l
 RT: 2.83 min Scan# 540
 Delta R.T. 0.01 min
 Lab File: VU034460.D
 Acq: 10 Sep 2019 18:40

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-E3-(0)

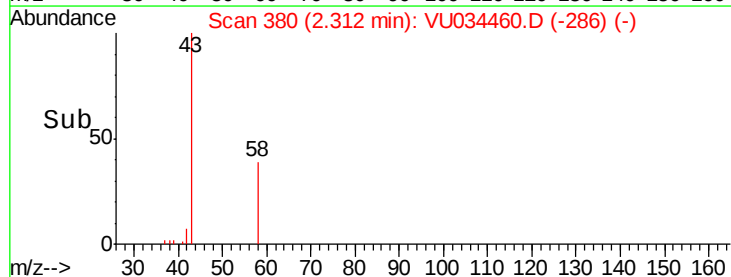
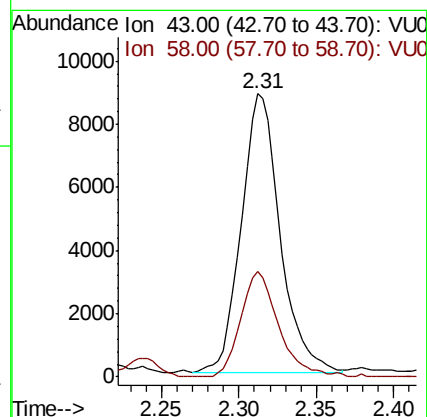
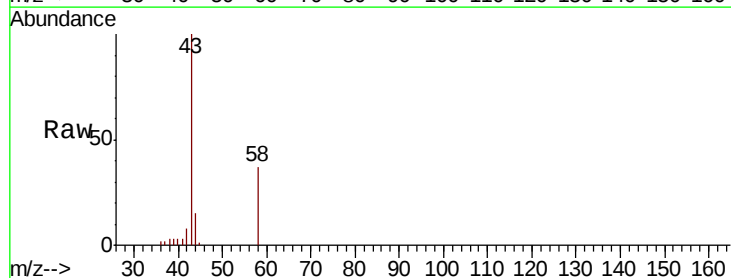
Tgt Ion: 59 Resp: 6811
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

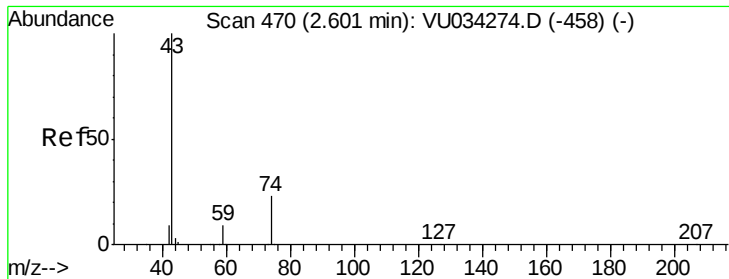


#16

Acetone
 Concen: 8.759 ug/l
 RT: 2.31 min Scan# 380
 Delta R.T. 0.00 min
 Lab File: VU034460.D
 Acq: 10 Sep 2019 18:40

Tgt Ion: 43 Resp: 15345
 Ion Ratio Lower Upper
 43 100
 58 37.8 27.6 41.4

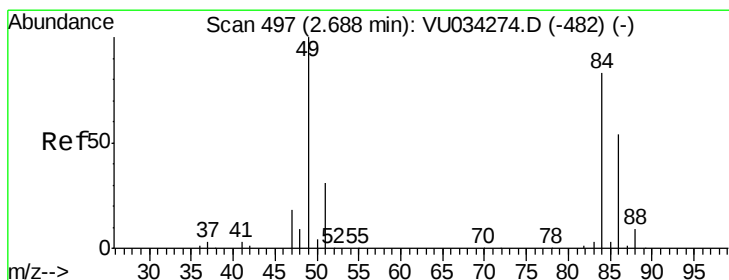
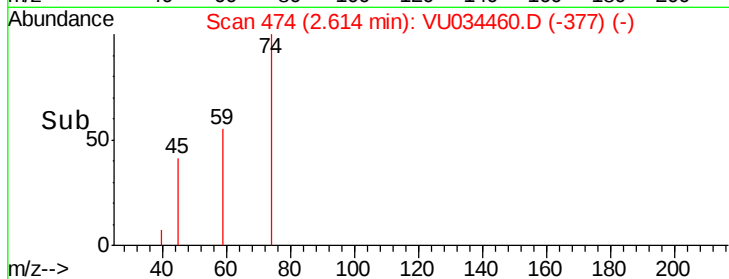
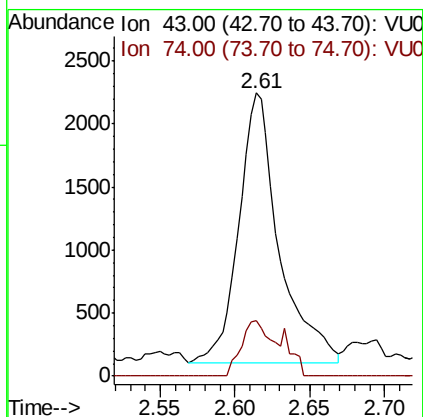
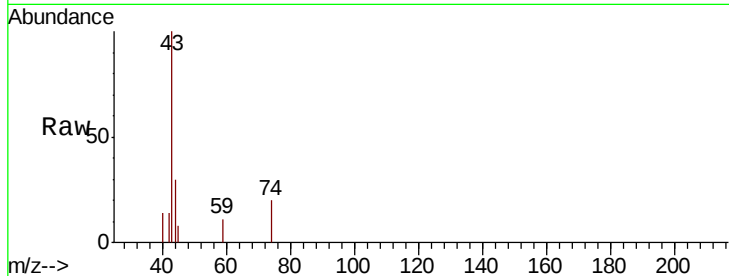




#18
Methyl Acetate
Concen: 0.942 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.01 min
Lab File: VU034460.D
Acq: 10 Sep 2019 18:40

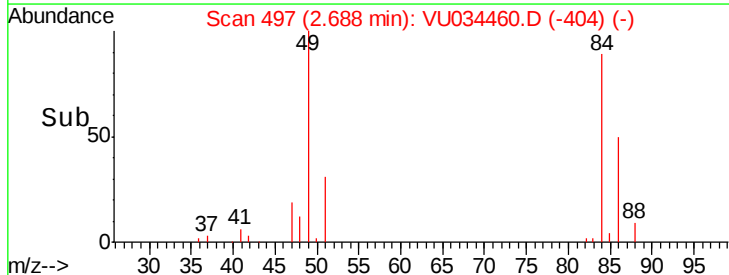
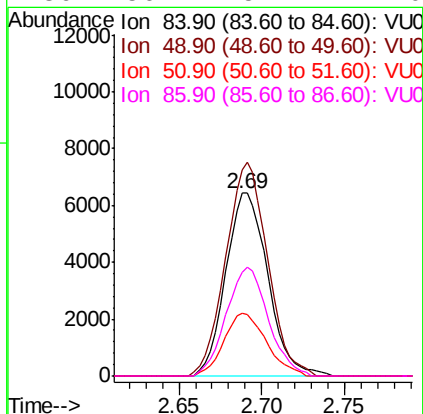
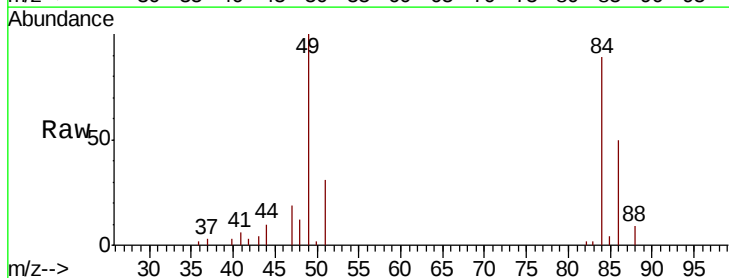
Instrument :
MSVOA_U
ClientSampleId :
PAR-E3-(0)

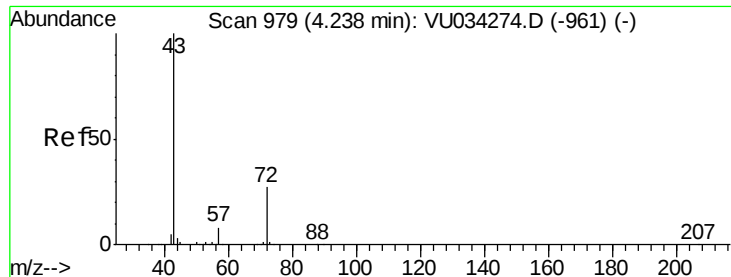
Tgt Ion: 43 Resp: 4016
Ion Ratio Lower Upper
43 100
74 15.6 18.9 28.3#



#20
Methylene Chloride
Concen: 3.587 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034460.D
Acq: 10 Sep 2019 18:40

Tgt Ion: 84 Resp: 11357
Ion Ratio Lower Upper
84 100
49 112.4 96.0 144.0
51 34.6 30.0 45.0
86 56.7 51.4 77.0





#25

2-Butanone

Concen: 0.284 ug/l

RT: 4.28 min Scan# 993

Delta R.T. 0.05 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

Instrument :

MSVOA_U

ClientSampleId :

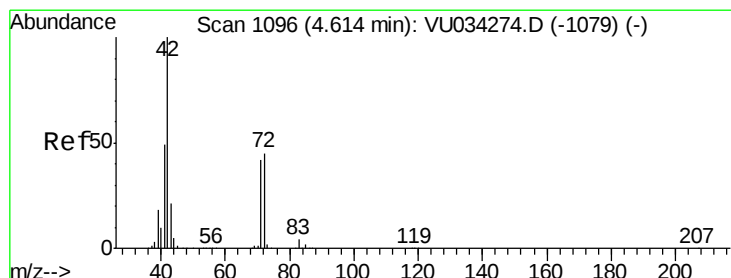
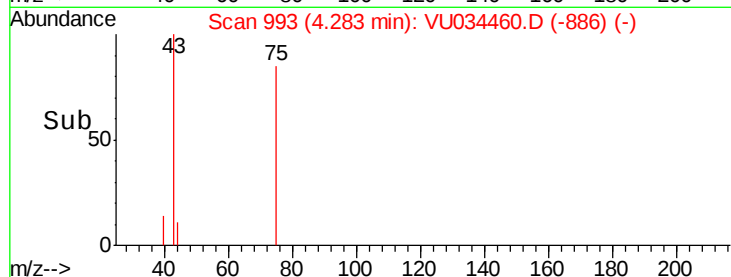
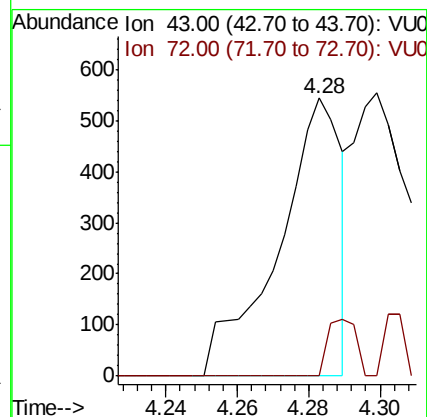
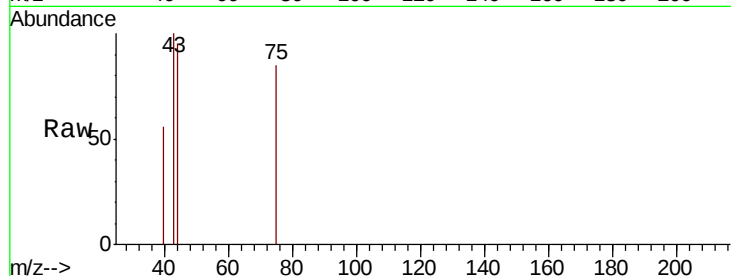
PAR-E3-(0)

Tgt Ion: 43 Resp: 664

Ion Ratio Lower Upper

43 100

72 0.0 21.8 32.6#



#29

Tetrahydrofuran

Concen: 0.202 ug/l

RT: 4.66 min Scan# 1109

Delta R.T. 0.04 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

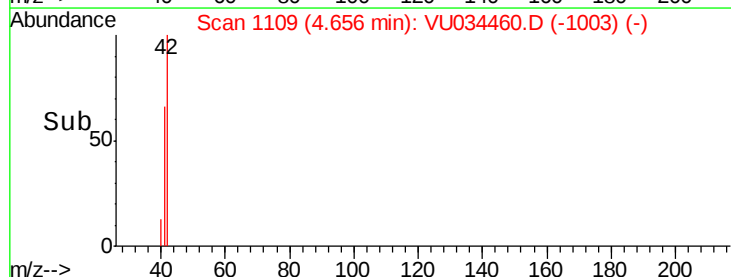
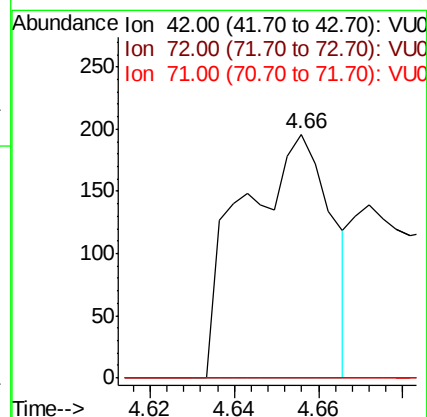
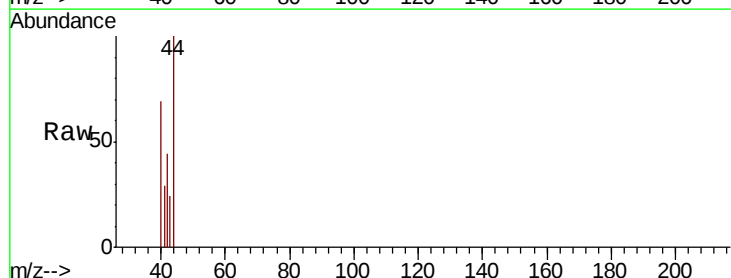
Tgt Ion: 42 Resp: 287

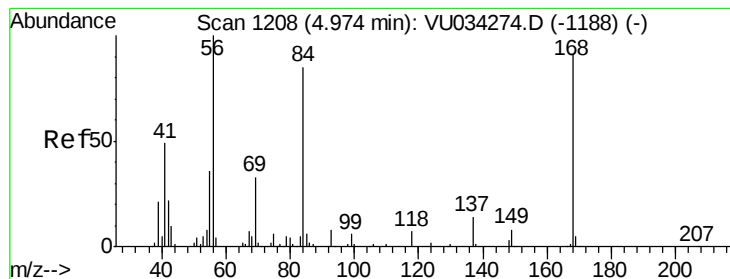
Ion Ratio Lower Upper

42 100

72 0.0 36.6 54.8#

71 0.0 34.3 51.5#





#31

Cyclohexane

Concen: 0.919 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

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PAR-E3-(0)

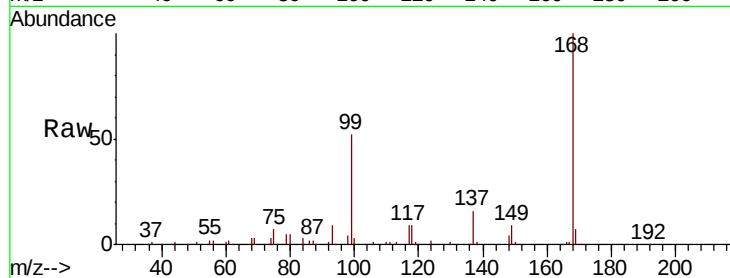
Tgt Ion: 56 Resp: 3643

Ion Ratio Lower Upper

56 100

69 215.1 26.7 40.1#

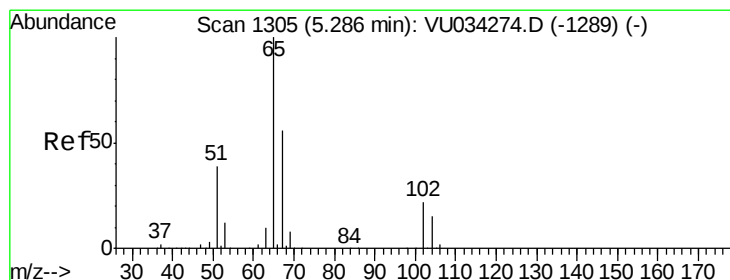
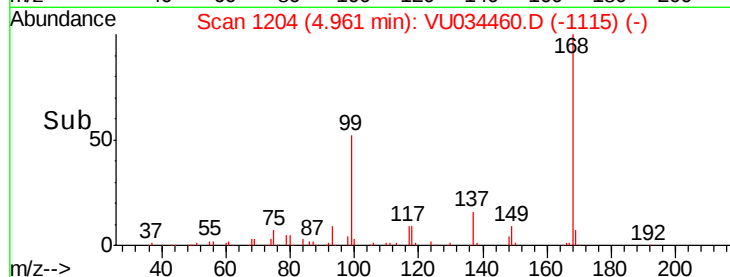
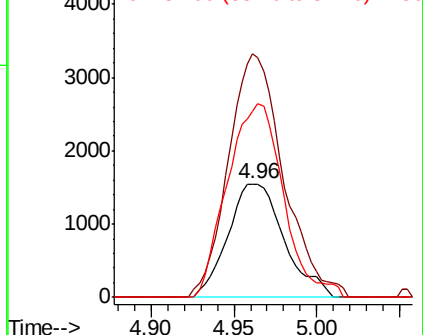
84 163.9 68.2 102.4#



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: 59.744 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034460.D

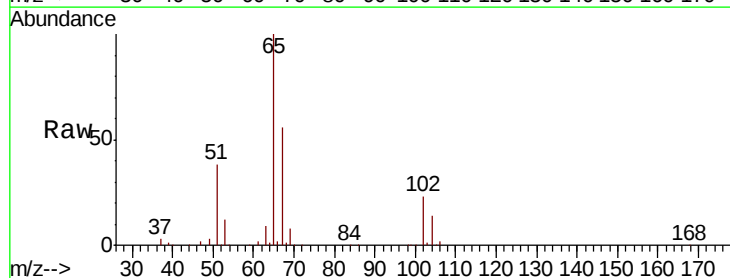
Acq: 10 Sep 2019 18:40

Tgt Ion: 65 Resp: 202254

Ion Ratio Lower Upper

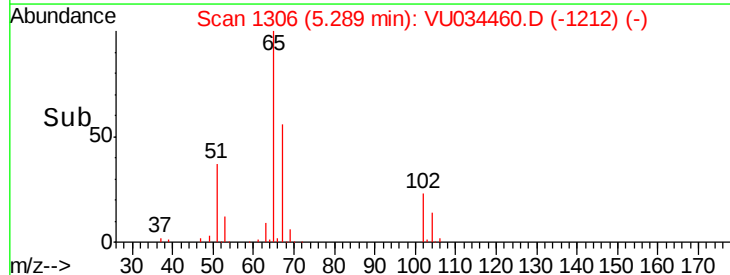
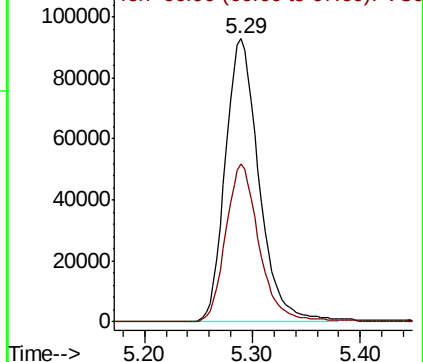
65 100

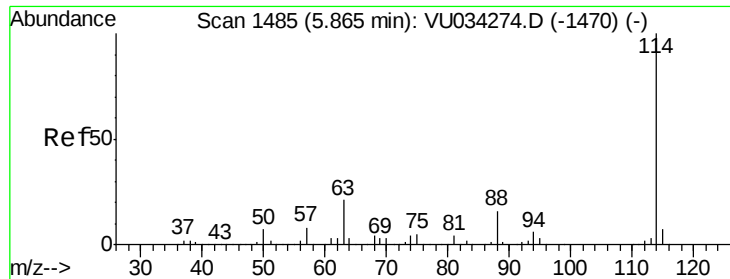
67 55.5 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

Instrument :

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ClientSampleId :

PAR-E3-(0)

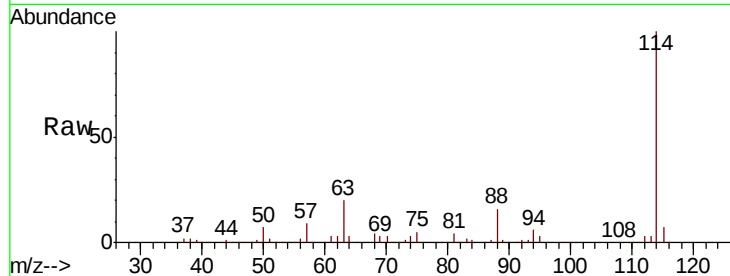
Tgt Ion:114 Resp: 346757

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.4

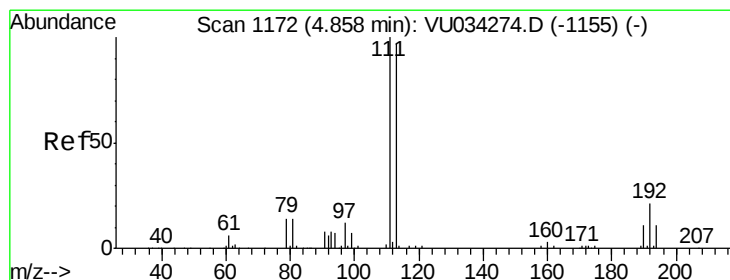
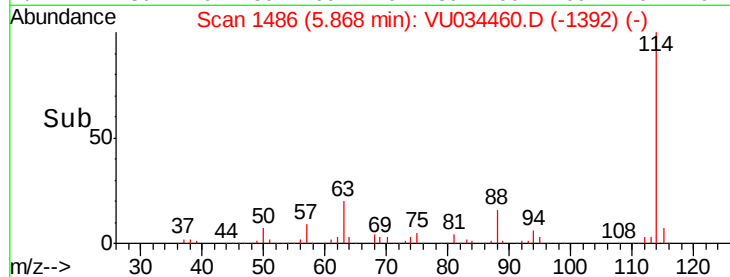
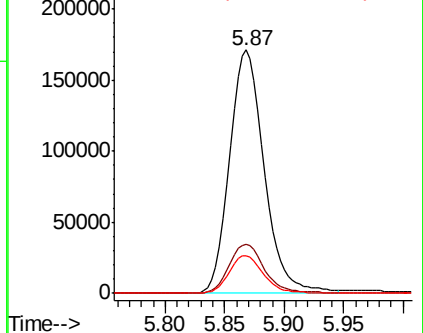
88 15.6 0.0 32.4



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: 54.786 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

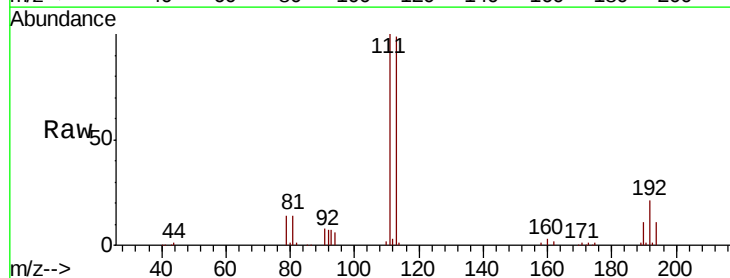
Tgt Ion:113 Resp: 176773

Ion Ratio Lower Upper

113 100

111 101.3 81.5 122.3

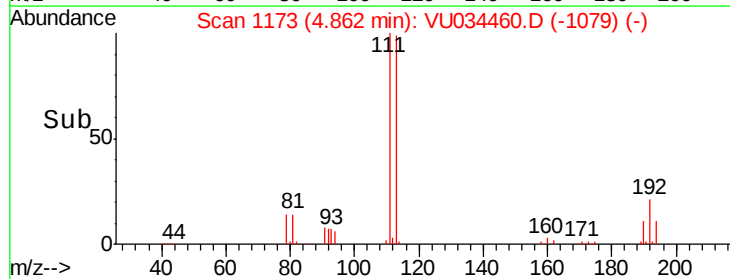
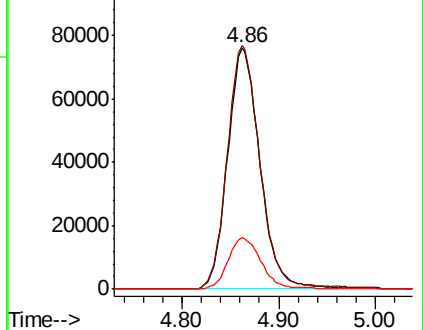
192 21.5 17.8 26.8

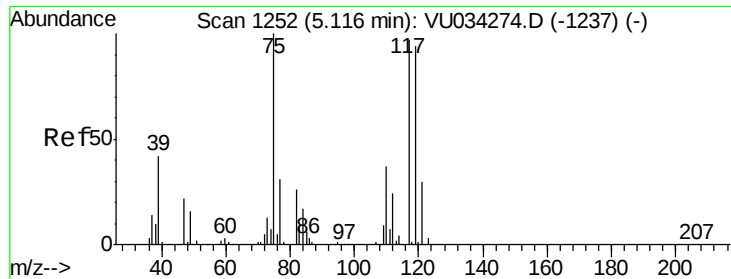


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.190 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

Instrument :

MSVOA_U

ClientSampleId :

PAR-E3-(0)

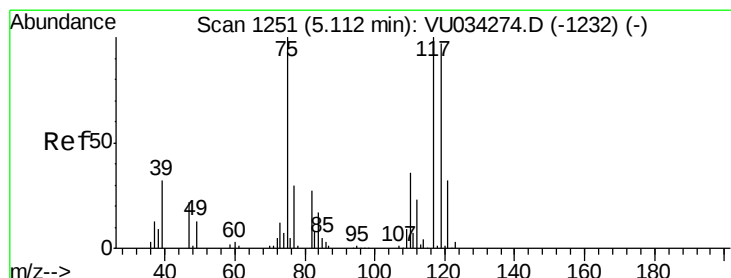
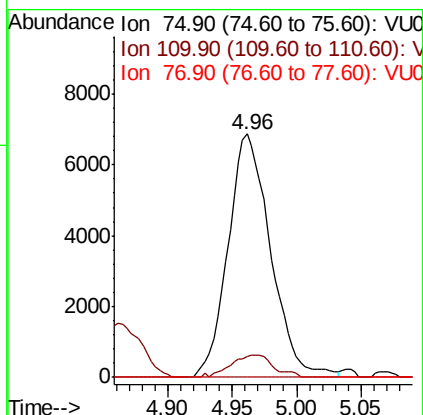
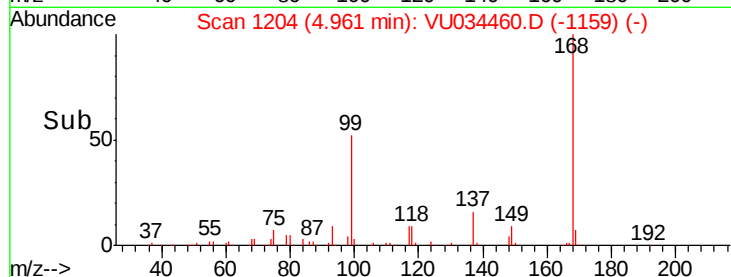
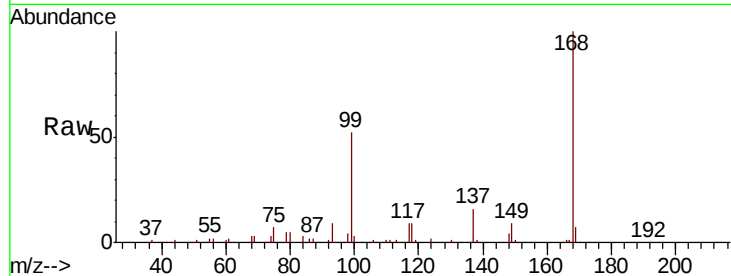
Tgt Ion: 75 Resp: 15758

Ion Ratio Lower Upper

75 100

110 9.2 18.3 54.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.141 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.15 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

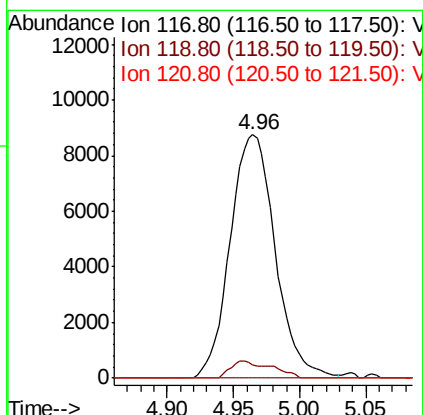
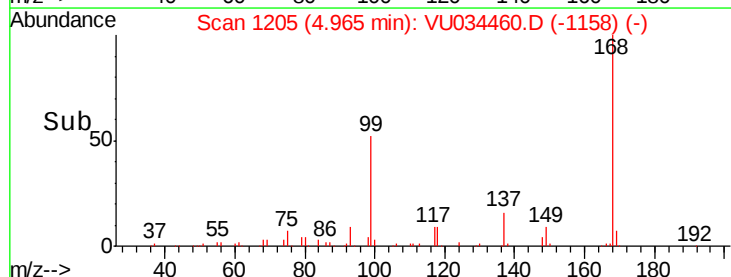
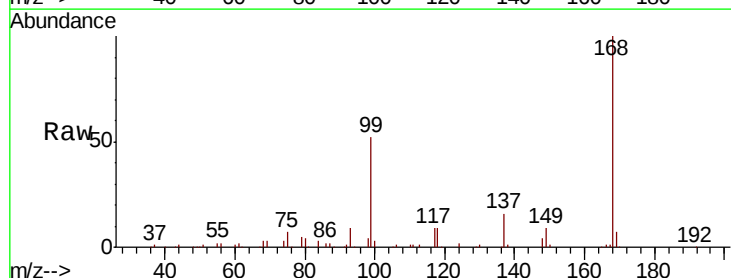
Tgt Ion: 117 Resp: 20644

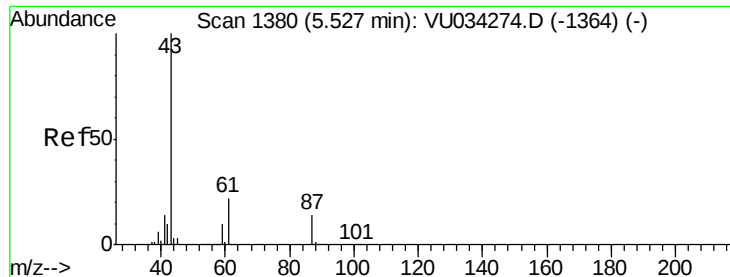
Ion Ratio Lower Upper

117 100

119 5.4 77.8 116.6#

121 0.0 25.2 37.8#





#43

Isopropyl Acetate

Concen: 7.508 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

Instrument :

MSVOA_U

ClientSampleId :

PAR-E3-(0)

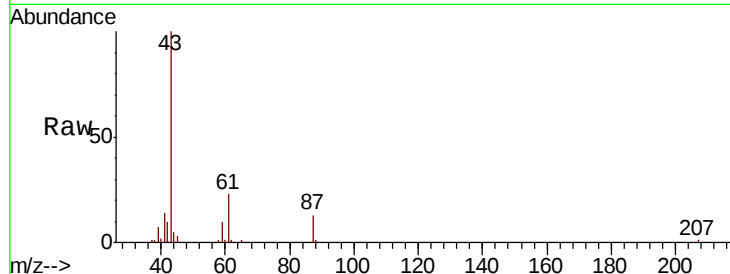
Tgt Ion: 43 Resp: 52078

Ion Ratio Lower Upper

43 100

61 22.4 17.1 25.7

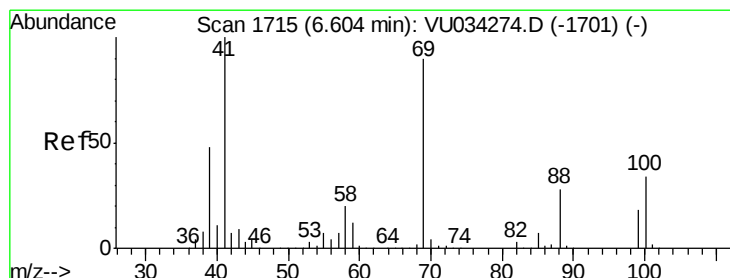
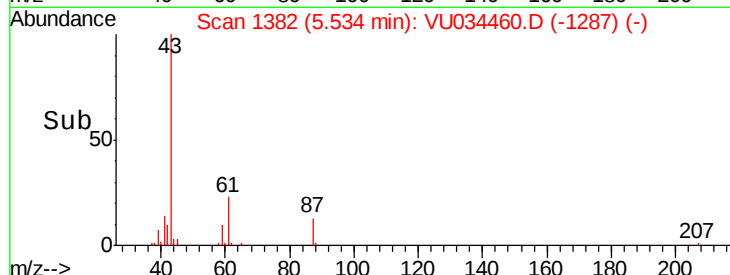
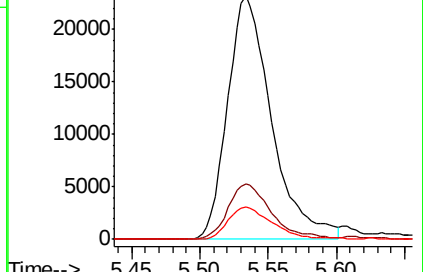
87 13.4 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VU034460.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034460.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034460.D (-1287) (-)



#48

Methyl methacrylate

Concen: 23.078 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.08 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

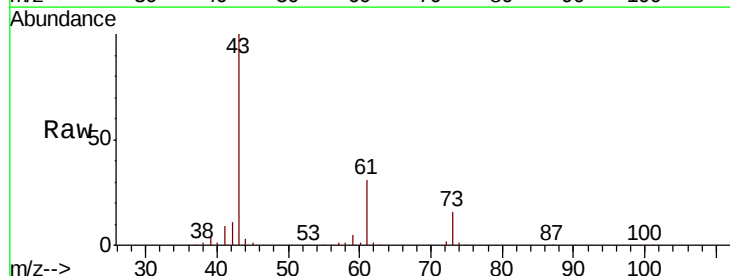
Tgt Ion: 41 Resp: 76029

Ion Ratio Lower Upper

41 100

69 0.0 72.8 109.2#

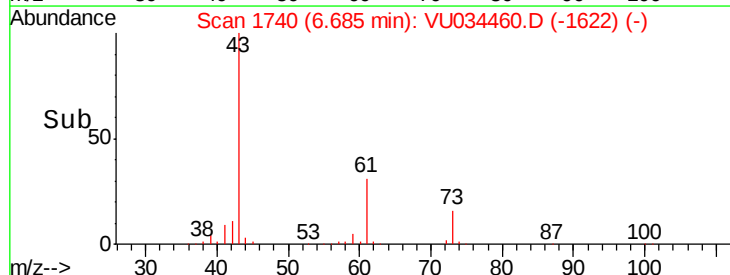
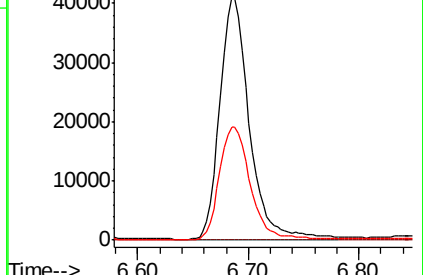
39 49.1 38.6 58.0

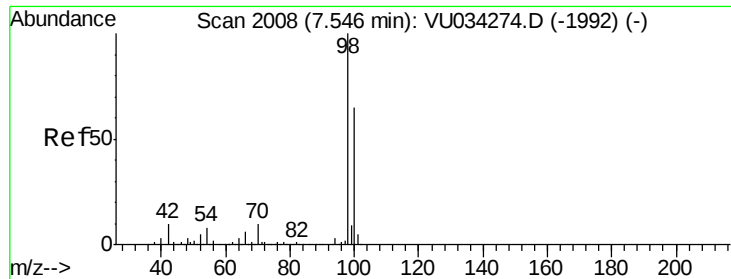


Abundance Ion 41.00 (40.70 to 41.70): VU034460.D (-1622) (-)

Ion 69.00 (68.70 to 69.70): VU034460.D (-1622) (-)

Ion 39.00 (38.70 to 39.70): VU034460.D (-1622) (-)

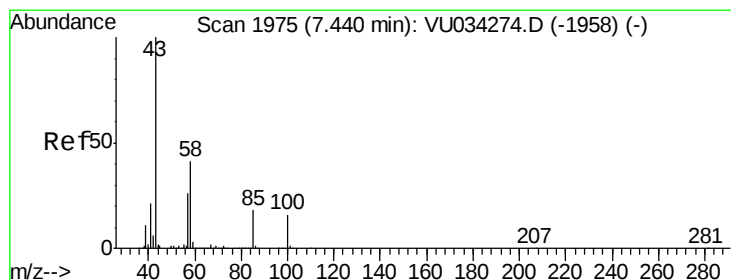
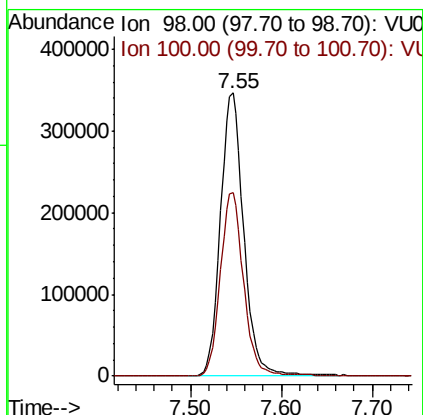
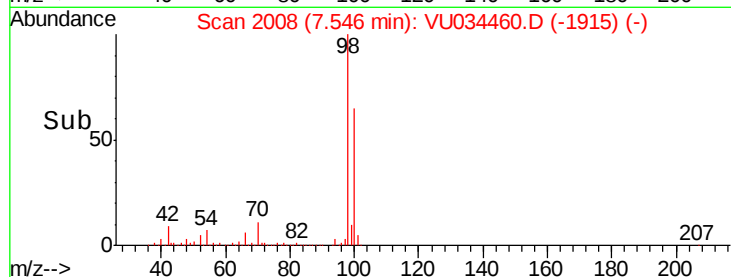
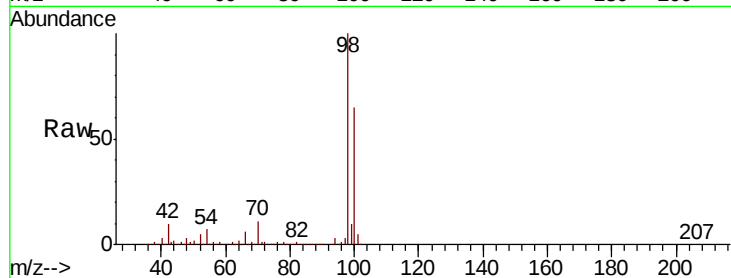




#50
Toluene-d8
Concen: 50.962 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034460.D
Acq: 10 Sep 2019 18:40

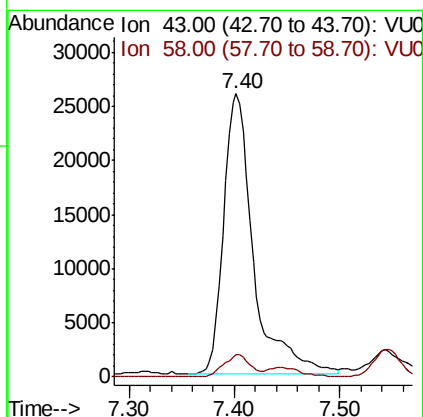
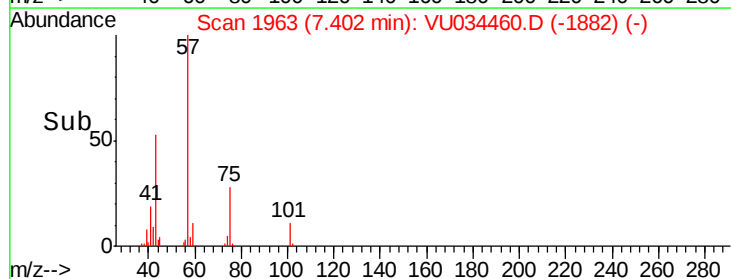
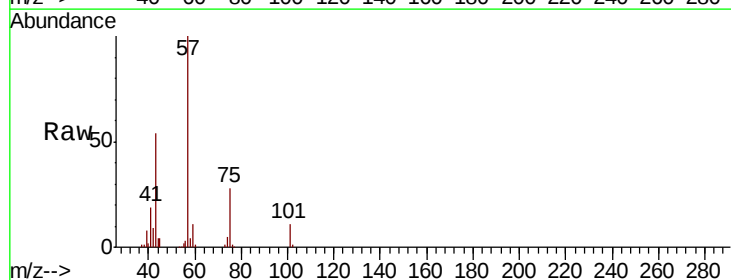
Instrument :
MSVOA_U
ClientSampleId :
PAR-E3-(0)

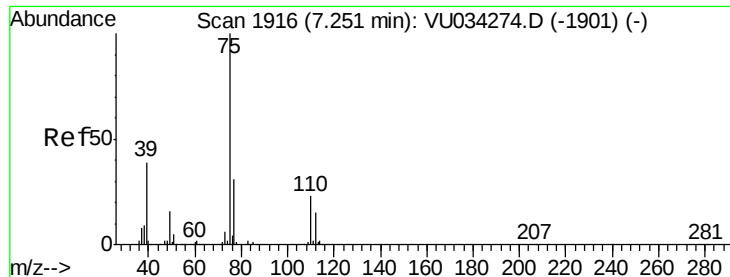
Tgt Ion: 98 Resp: 617782
Ion Ratio Lower Upper
98 100
100 64.9 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 10.598 ug/l
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU034460.D
Acq: 10 Sep 2019 18:40

Tgt Ion: 43 Resp: 50885
Ion Ratio Lower Upper
43 100
58 6.8 33.0 49.4#





#54

cis-1,3-Dichloropropene

Concen: 4.625 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

Instrument :

MSVOA_U

ClientSampleId :

PAR-E3-(0)

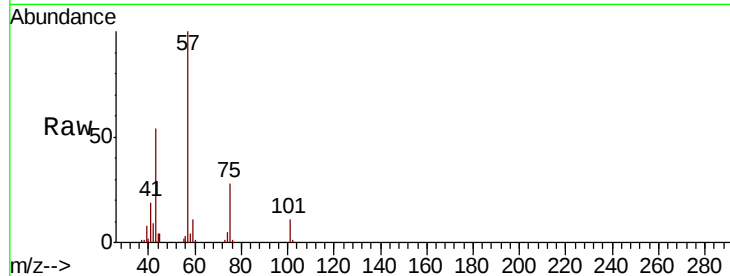
Tgt Ion: 75 Resp: 24117

Ion Ratio Lower Upper

75 100

77 0.8 25.1 37.7#

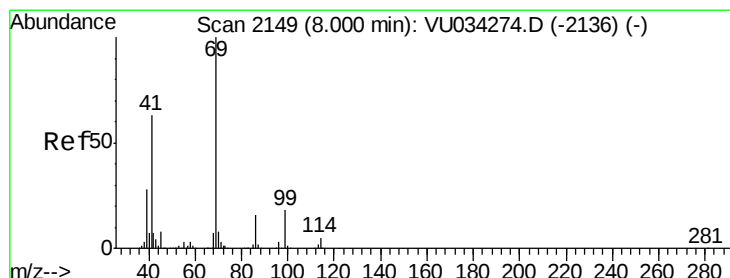
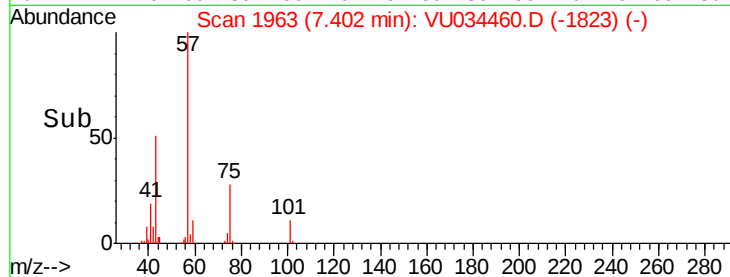
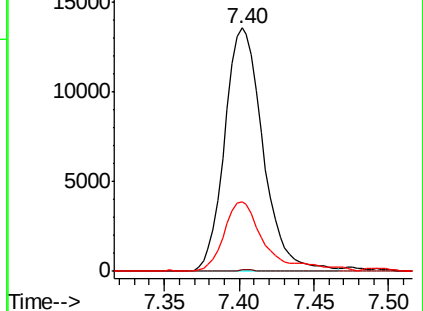
39 28.4 31.2 46.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0



#56

Ethyl methacrylate

Concen: 3.392 ug/l

RT: 8.13 min Scan# 2191

Delta R.T. 0.14 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

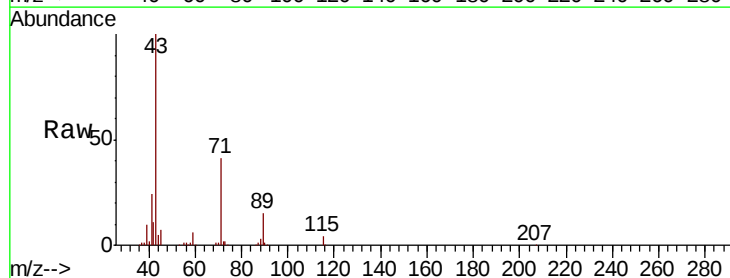
Tgt Ion: 69 Resp: 1765

Ion Ratio Lower Upper

69 100

41 2289.4 49.5 74.3#

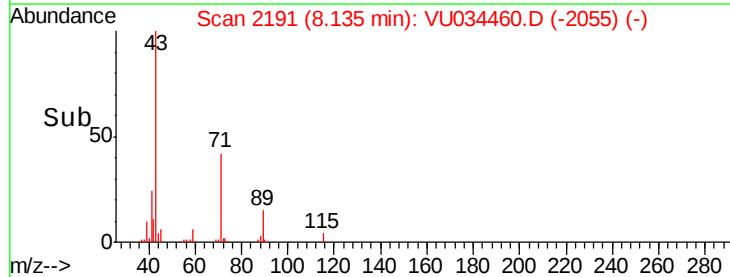
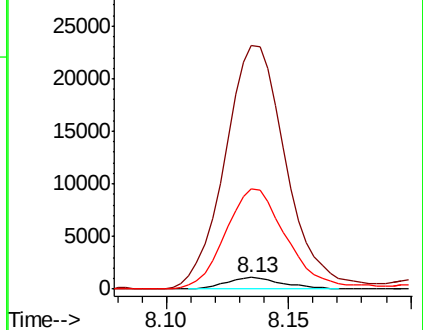
39 948.7 22.5 33.7#

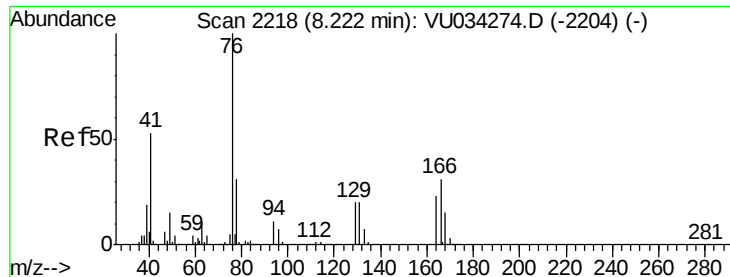


Abundance Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

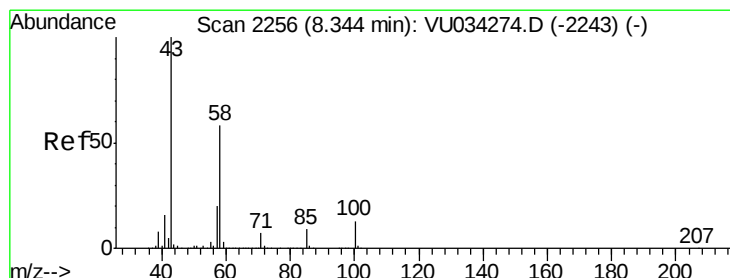
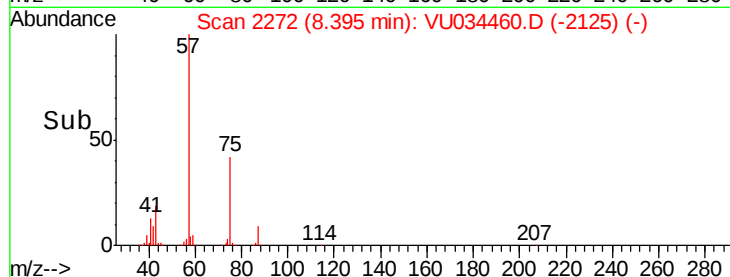
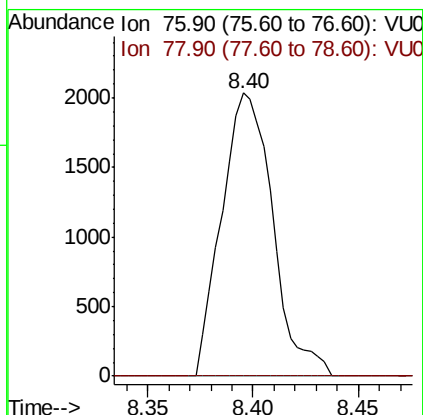
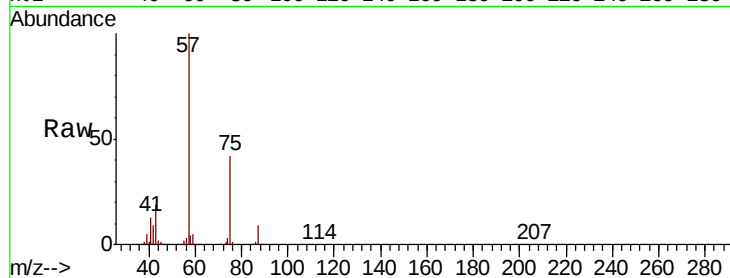




#57
 1,3-Dichloropropane
 Concen: 0.609 ug/l
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.17 min
 Lab File: VU034460.D
 Acq: 10 Sep 2019 18:40

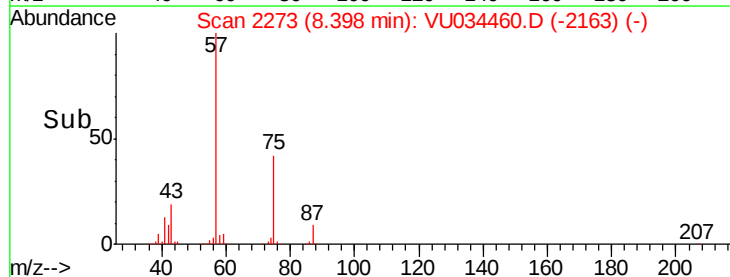
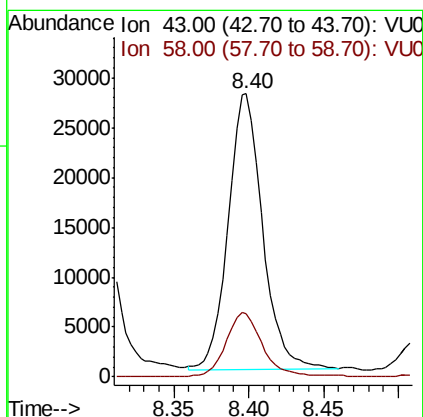
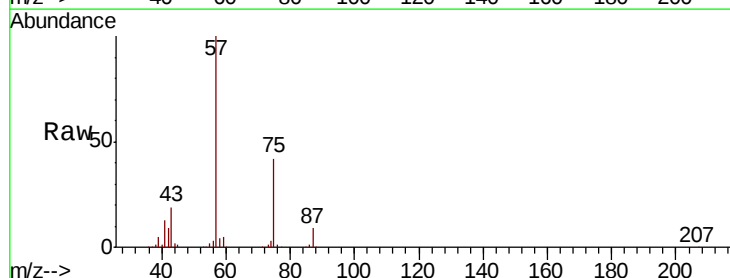
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-E3-(0)

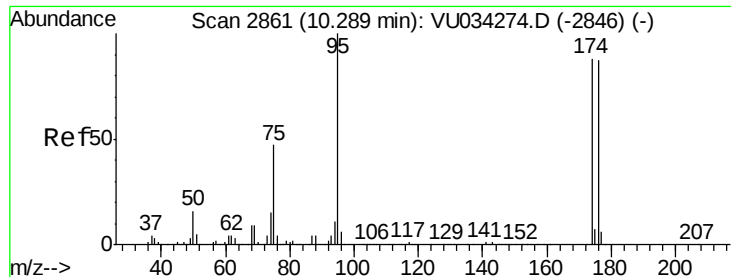
Tgt Ion: 76 Resp: 3426
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 12.352 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034460.D
 Acq: 10 Sep 2019 18:40

Tgt Ion: 43 Resp: 44304
 Ion Ratio Lower Upper
 43 100
 58 24.9 28.8 86.5#

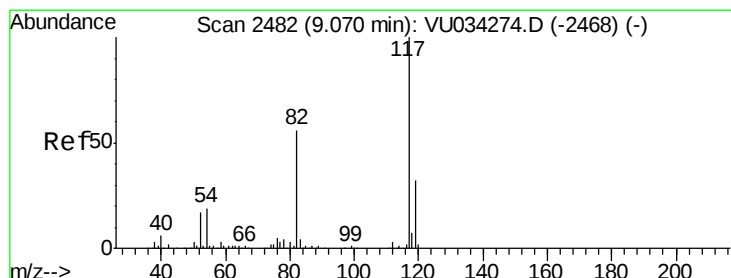
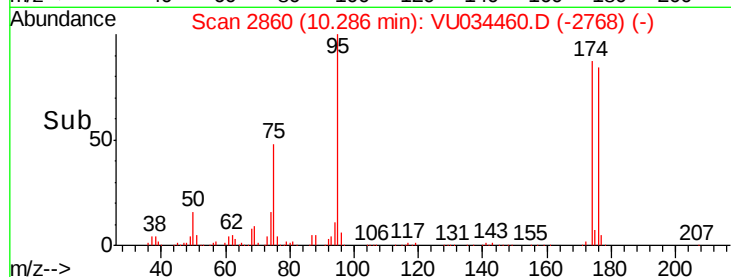
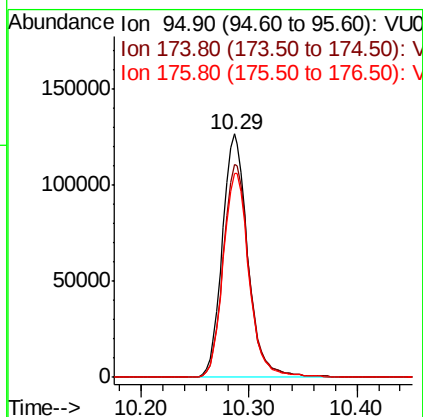
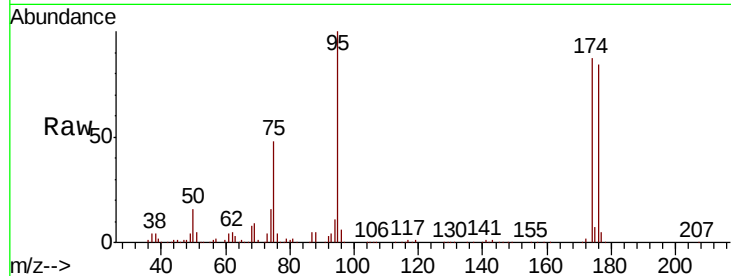




#62
4-Bromofluorobenzene
Concen: 44.539 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.00 min
Lab File: VU034460.D
Acq: 10 Sep 2019 18:40

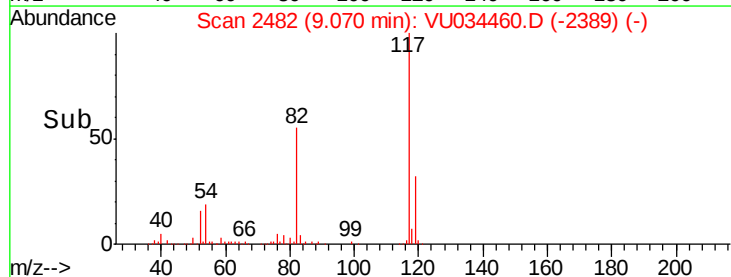
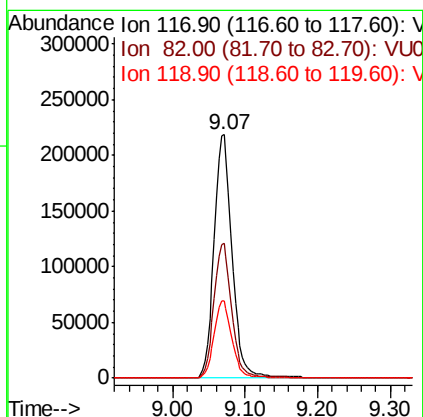
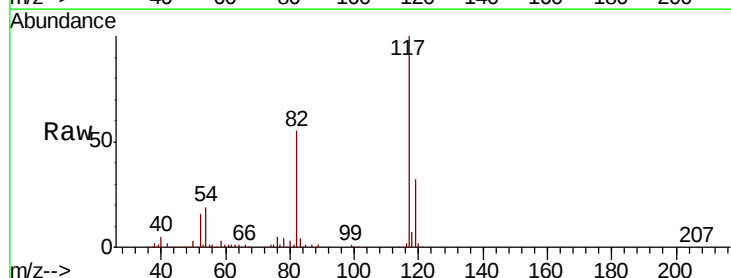
Instrument :
MSVOA_U
ClientSampleId :
PAR-E3-(0)

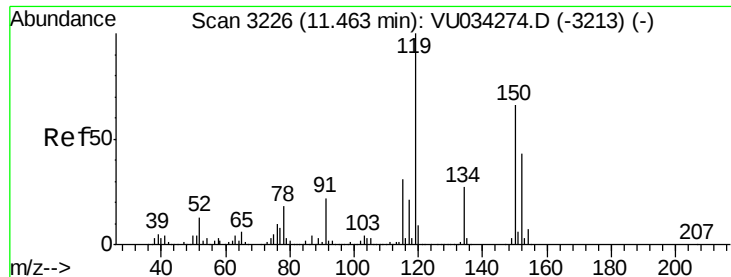
Tgt Ion: 95 Resp: 208459
Ion Ratio Lower Upper
95 100
174 89.8 0.0 175.2
176 85.5 0.0 168.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034460.D
Acq: 10 Sep 2019 18:40

Tgt Ion: 117 Resp: 377496
Ion Ratio Lower Upper
117 100
82 55.4 44.6 67.0
119 31.6 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: VU034460.D

Acq: 10 Sep 2019 18:40

Instrument :

MSVOA_U

ClientSampleId :

PAR-E3-(0)

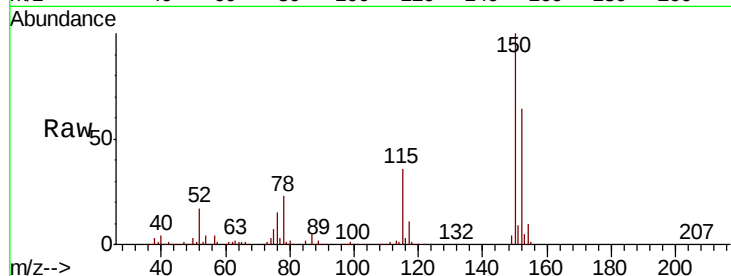
Tgt Ion:152 Resp: 201707

Ion Ratio Lower Upper

152 100

115 56.0 39.1 117.3

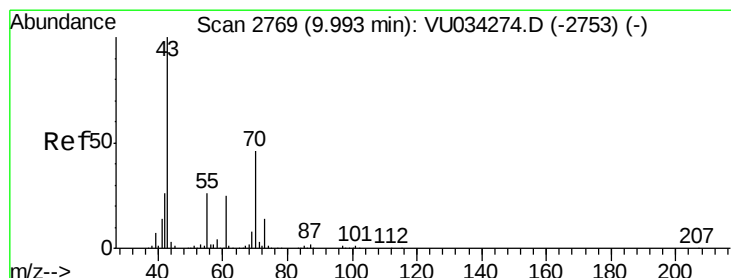
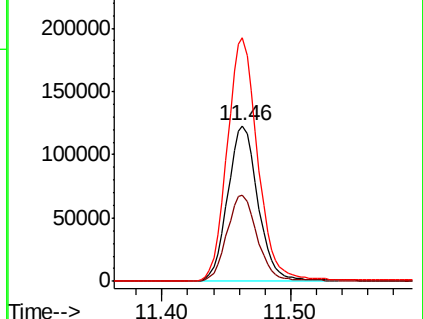
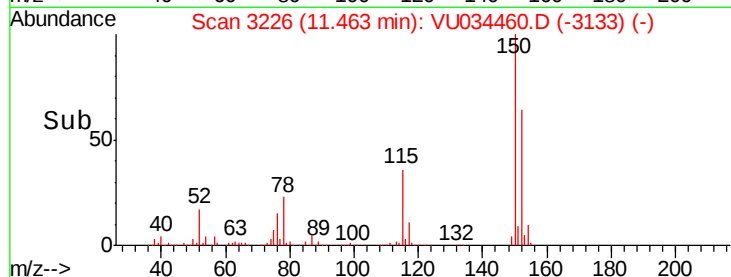
150 157.2 0.0 345.4



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: 0.365 ug/l

RT: 9.92 min Scan# 2746

Delta R.T. -0.07 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

Tgt Ion: 43 Resp: 1931

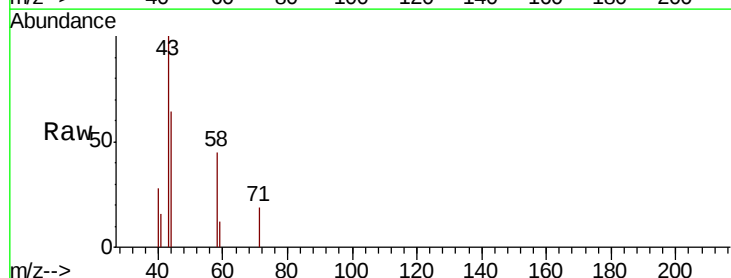
Ion Ratio Lower Upper

43 100

70 0.0 36.4 54.6#

55 5.1 21.2 31.8#

61 0.0 20.4 30.6#

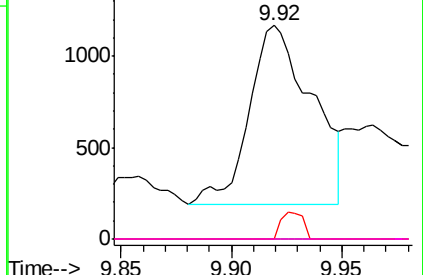
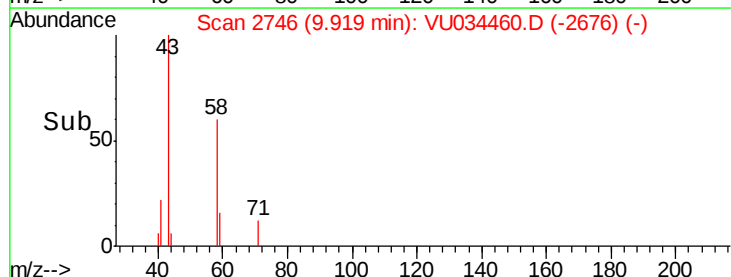


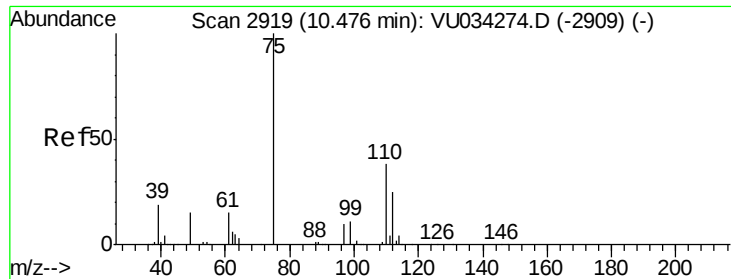
Abundance Ion 43.00 (42.70 to 43.70): VU0

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: 22.530 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

Instrument :

MSVOA_U

ClientSampleId :

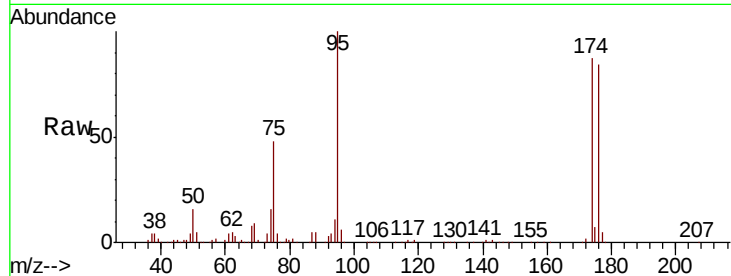
PAR-E3-(0)

Tgt Ion: 75 Resp: 99198

Ion Ratio Lower Upper

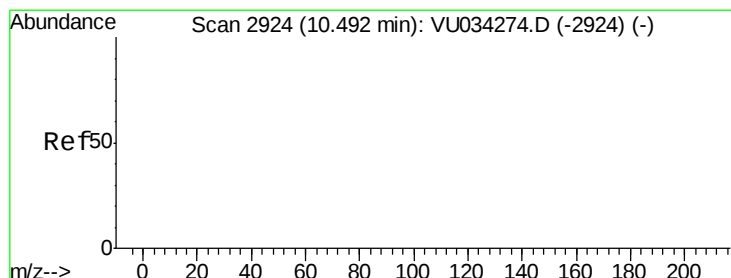
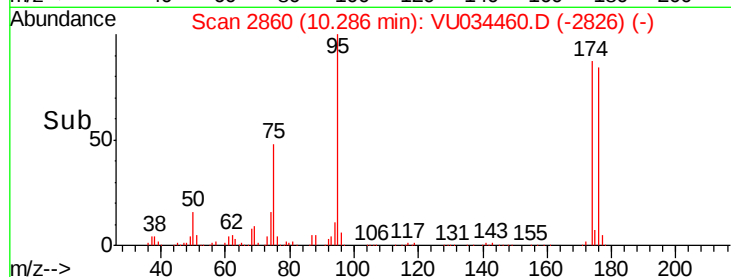
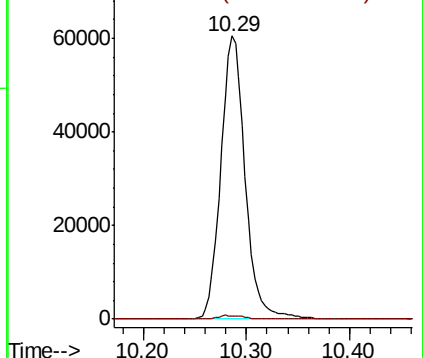
75 100

77 1.2 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: 75.767 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034460.D

Acq: 10 Sep 2019 18:40

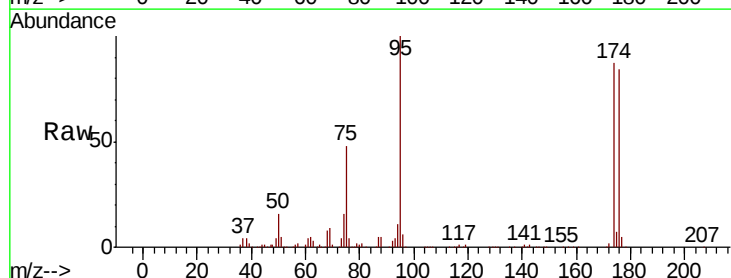
Tgt Ion: 75 Resp: 99198

Ion Ratio Lower Upper

75 100

53 0.3 0.0 0.0#

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

