

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012919\
 Data File : VX007292.D
 Acq On : 29 Jan 2019 17:02
 Operator : JC/SP
 Sample : PB116677ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

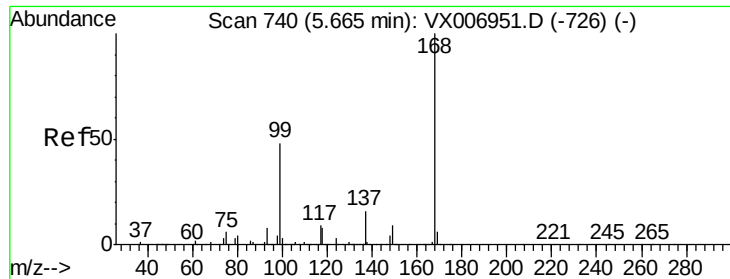
Quant Time: Jan 30 00:45:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	527876	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	816275	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	784279	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	370292	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	284658	51.60	ug/l	0.00
Spiked Amount			Recovery	=	103.20%	
35) Dibromofluoromethane	5.51	113	255166	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
50) Toluene-d8	8.71	98	992943	51.89	ug/l	0.00
Spiked Amount			Recovery	=	103.78%	
62) 4-Bromofluorobenzene	11.13	95	344569	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.05	59	1167	0.897	ug/l #	1
13) Acrolein	2.31	56	79	3.223	ug/l #	1
16) Acetone	2.45	43	29254	10.726	ug/l	94
18) Methyl Acetate	2.78	43	19113	2.420	ug/l	96
20) Methylene Chloride	2.86	84	12336	1.833	ug/l	97
25) 2-Butanone	4.71	43	6929	1.776	ug/l	95
29) Tetrahydrofuran	5.15	42	2740	1.080	ug/l #	60
36) 1,1-Dichloropropene	5.66	75	33750	4.756	ug/l #	48
38) Carbon Tetrachloride	5.66	117	46847	6.561	ug/l #	16
43) Isopropyl Acetate	6.46	43	27110	2.259	ug/l	96
48) Methyl methacrylate	7.69	41	13598	2.206	ug/l #	12
49) 1,4-Dioxane	7.76	88	212	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	147579	19.134	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	72696	9.115	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	16125	1.767	ug/l #	43
59) 2-Hexanone	9.54	43	220862	37.577	ug/l #	52
71) Bromoform	10.82	173	119	4.748	ug/l #	28
74) N-amyl acetate	10.69	43	22851	2.174	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	167118	22.271	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	5042	0.231	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.13	75	167118	65.909	ug/l #	10
90) Hexachloroethane	12.63	117	58	2.923	ug/l	80

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007292.D

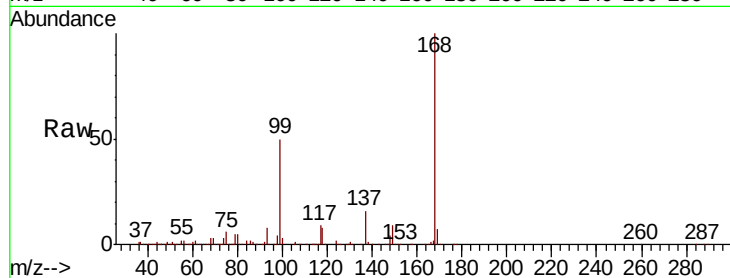
Acq: 29 Jan 2019 17:02

Tot Ion:168 Resp: 527876

Ion Ratio Lower Upper

168 100

99 50.4 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

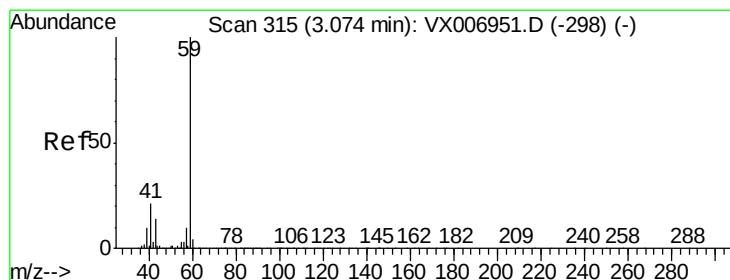
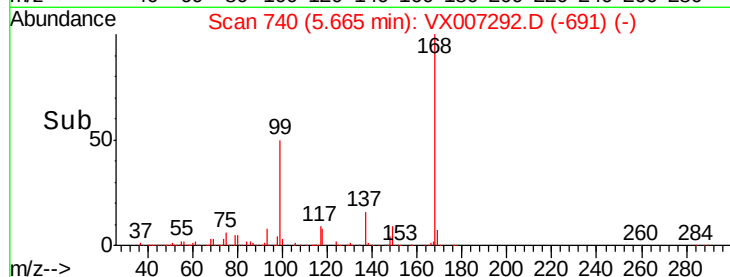
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 0.897 ug/l

RT: 3.05 min Scan# 311

Delta R.T. -0.02 min

Lab File: VX007292.D

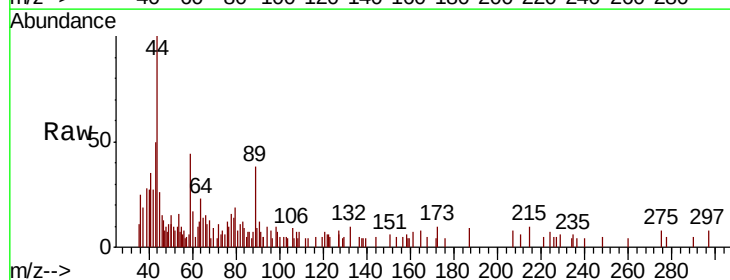
Acq: 29 Jan 2019 17:02

Tgt Ion: 59 Resp: 1167

Ion Ratio Lower Upper

59 100

57 54.5 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.05

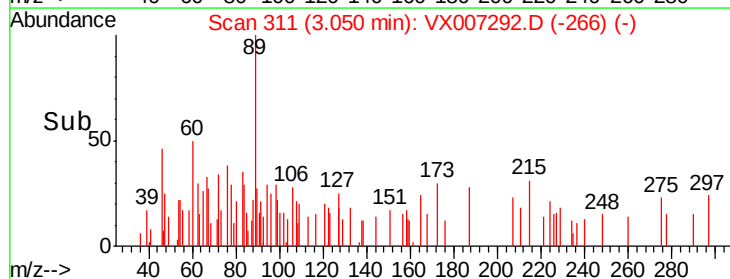
600

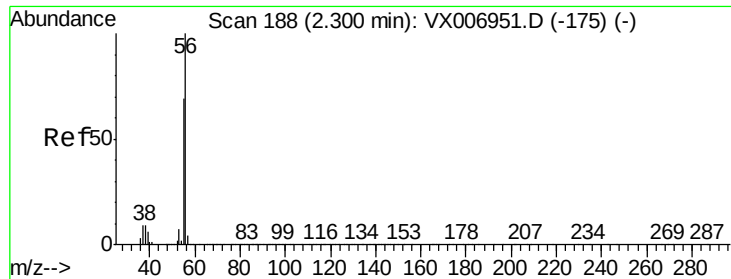
400

200

0

Time--> 3.05 3.10





#13

Acrolein

Concen: 3.223 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.01 min

Lab File: VX007292.D

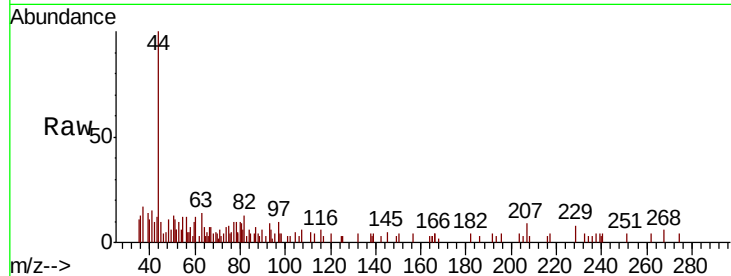
Acq: 29 Jan 2019 17:02

Tot Ion: 56 Resp: 79

Ion Ratio Lower Upper

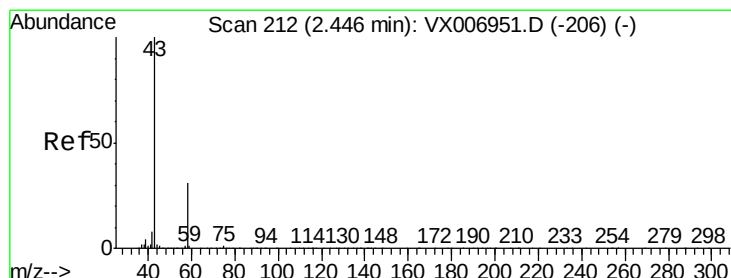
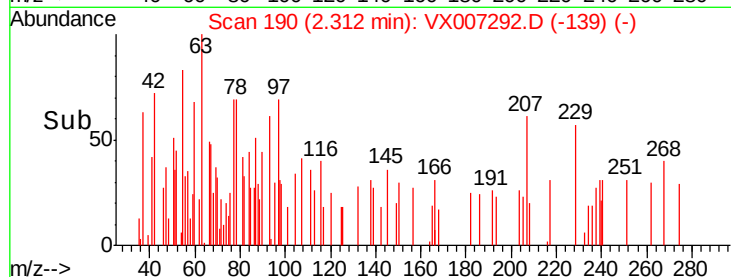
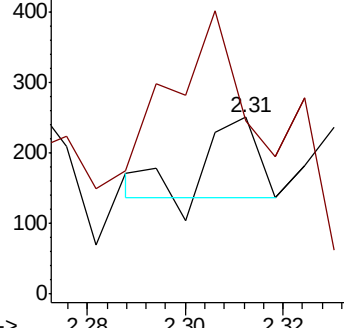
56 100

55 321.5 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 10.726 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007292.D

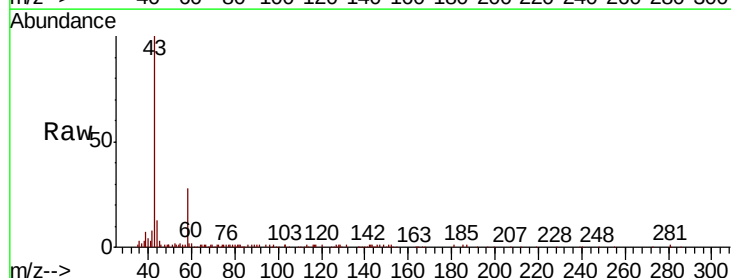
Acq: 29 Jan 2019 17:02

Tgt Ion: 43 Resp: 29254

Ion Ratio Lower Upper

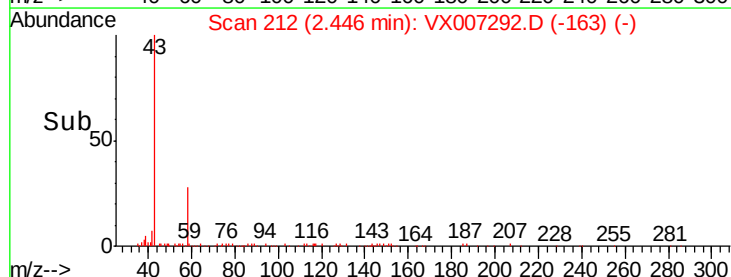
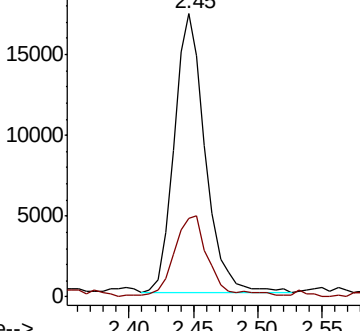
43 100

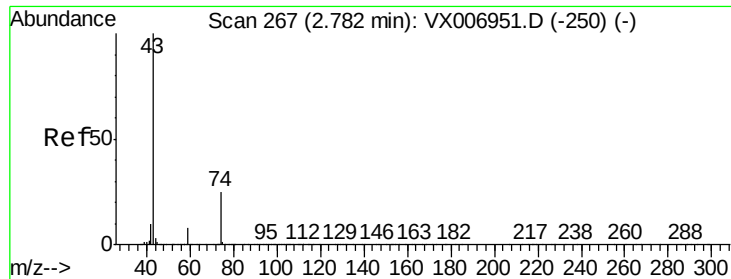
58 27.7 25.0 37.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

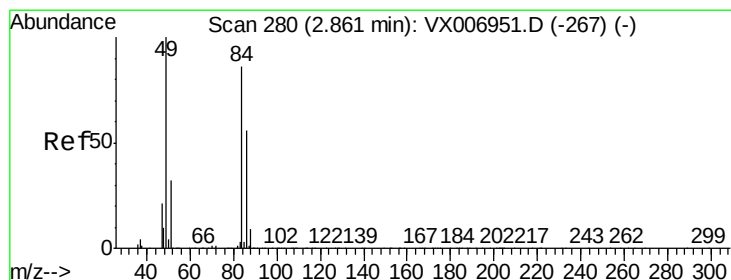
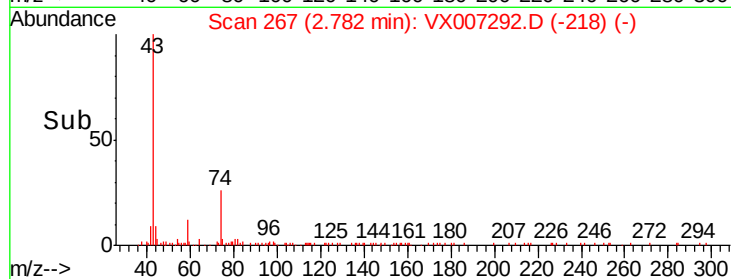
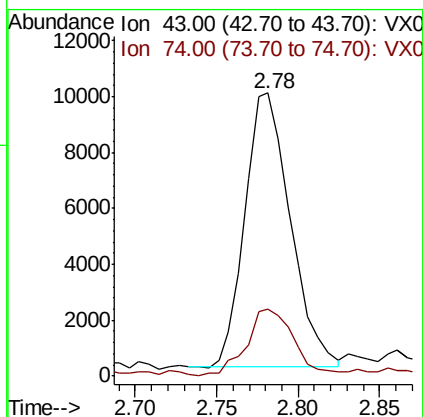
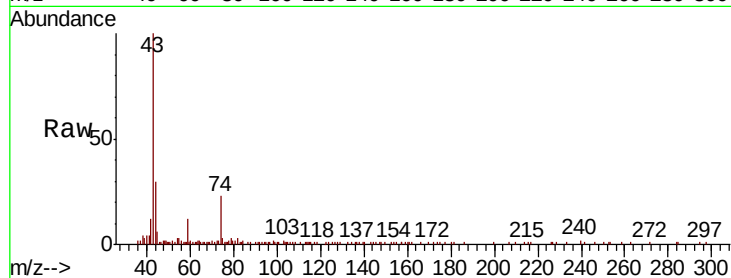
Ion 58.00 (57.70 to 58.70): VX0





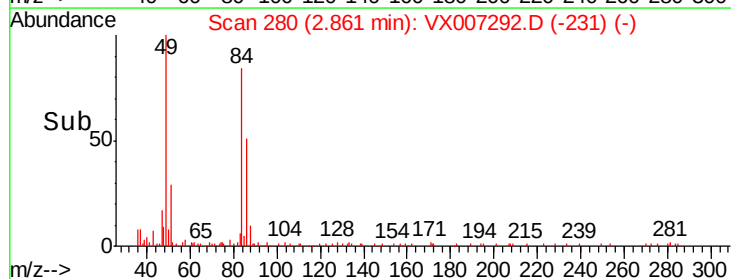
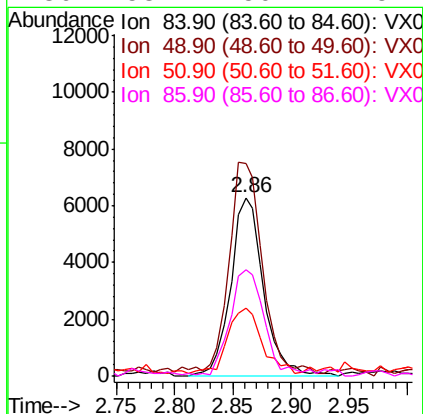
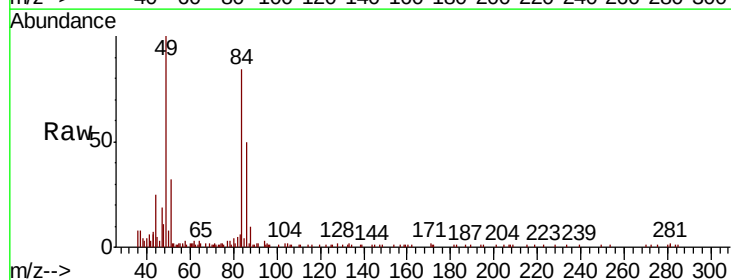
#18
Methyl Acetate
Concen: 2.420 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX007292.D
Acq: 29 Jan 2019 17:02

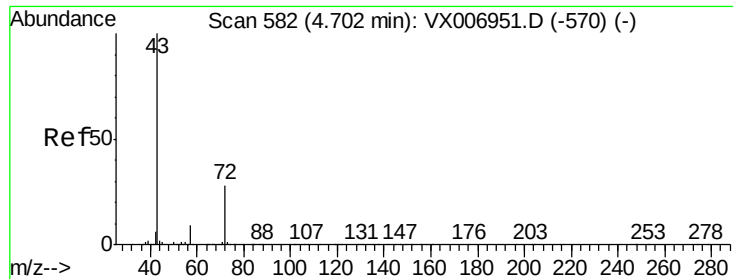
Tot Ion: 43 Resp: 19113
Ion Ratio Lower Upper
43 100
74 25.3 18.6 28.0



#20
Methylene Chloride
Concen: 1.833 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007292.D
Acq: 29 Jan 2019 17:02

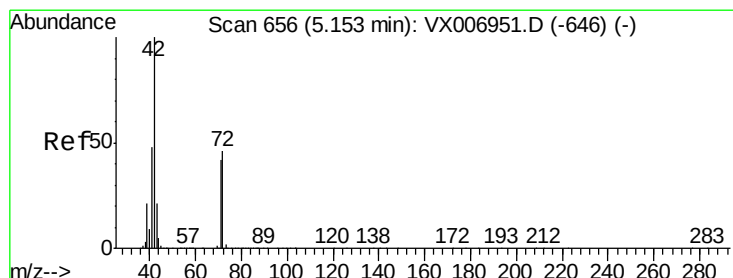
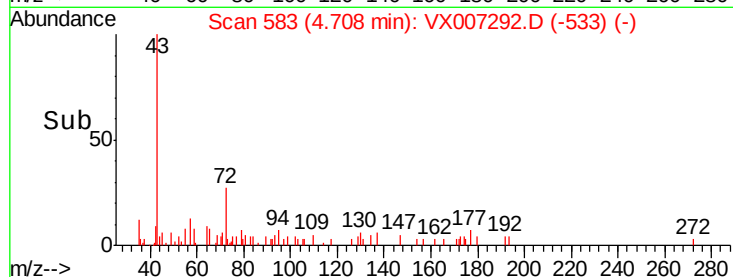
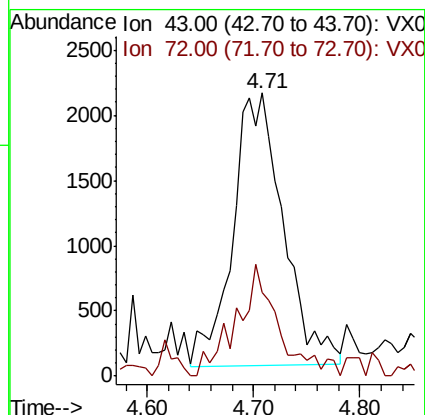
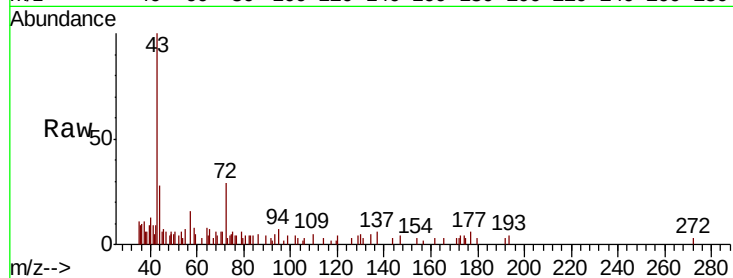
Tgt Ion: 84 Resp: 12336
Ion Ratio Lower Upper
84 100
49 116.3 91.8 137.6
51 36.2 28.5 42.7
86 58.1 50.2 75.2





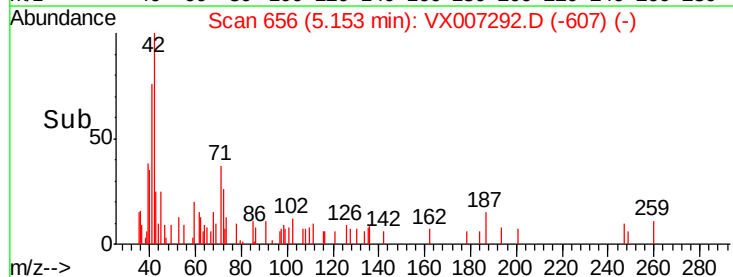
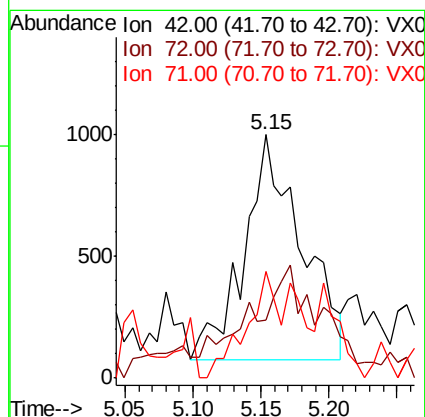
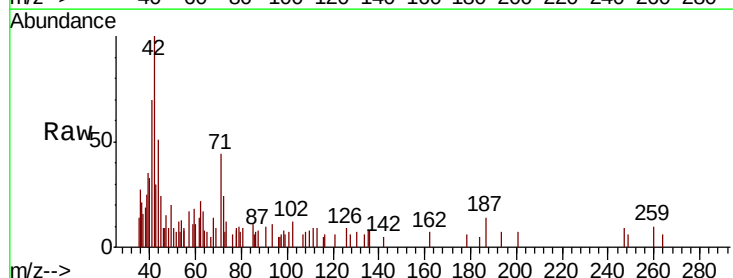
#25
2-Butanone
Concen: 1.776 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX007292.D
Acq: 29 Jan 2019 17:02

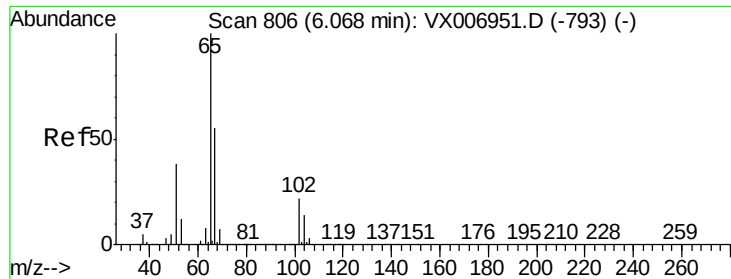
Tot Ion: 43 Resp: 6929
Ion Ratio Lower Upper
43 100
72 30.7 22.4 33.6



#29
Tetrahydrofuran
Concen: 1.080 ug/l
RT: 5.15 min Scan# 656
Delta R.T. 0.00 min
Lab File: VX007292.D
Acq: 29 Jan 2019 17:02

Tgt Ion: 42 Resp: 2740
Ion Ratio Lower Upper
42 100
72 14.8 38.9 58.3#
71 25.9 36.2 54.4#





#33

1,2-Dichloroethane-d4

Concen: 51.599 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007292.D

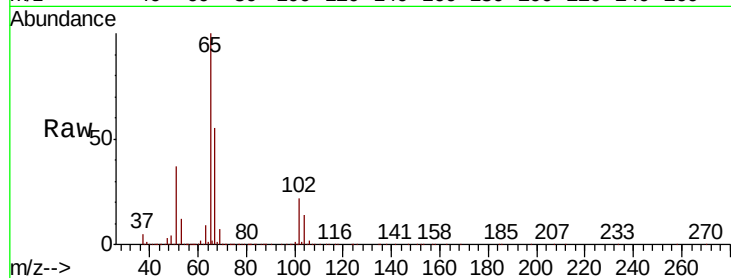
Acq: 29 Jan 2019 17:02

Tot Ion: 65 Resp: 284658

Ion Ratio Lower Upper

65 100

67 54.6 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

120000

100000

80000

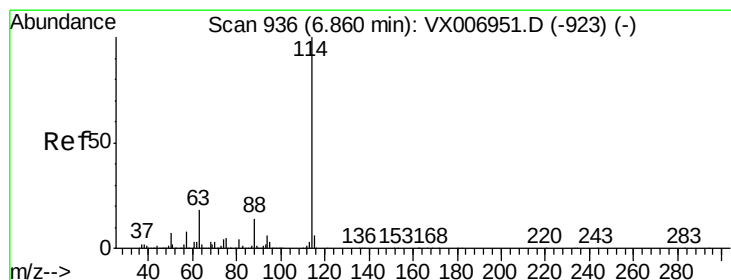
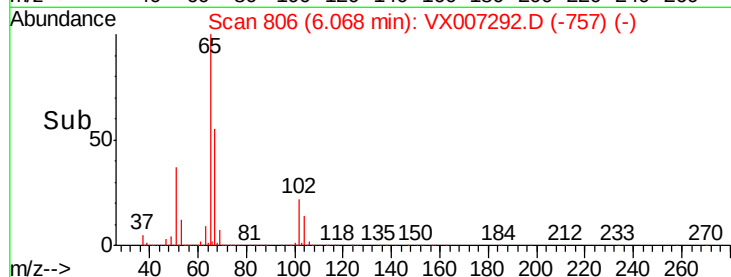
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007292.D

Acq: 29 Jan 2019 17:02

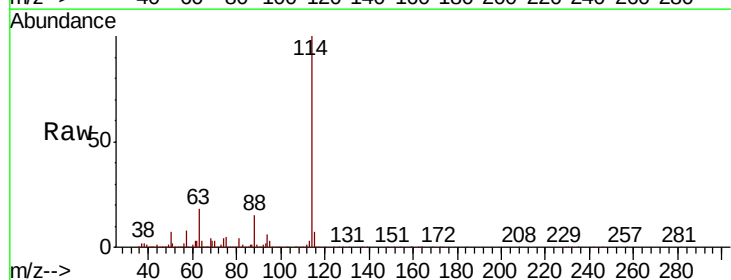
Tgt Ion: 114 Resp: 816275

Ion Ratio Lower Upper

114 100

63 18.2 0.0 34.8

88 15.1 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.86

400000

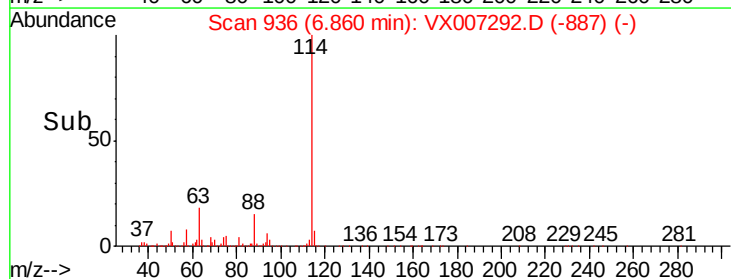
300000

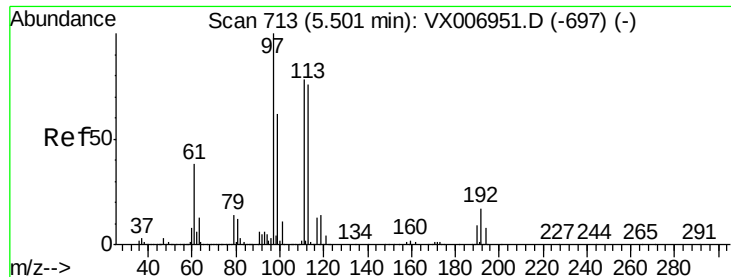
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 48.813 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007292.D

Acq: 29 Jan 2019 17:02

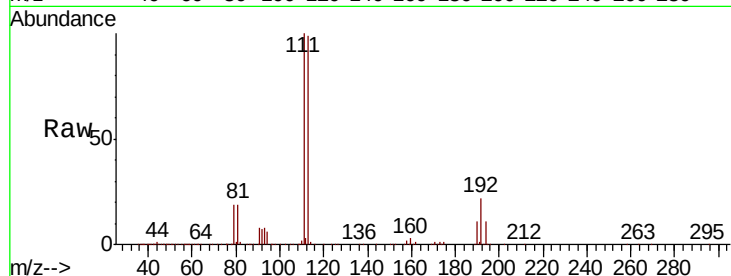
Tot Ion:113 Resp: 255166

Ion Ratio Lower Upper

113 100

111 103.1 81.6 122.4

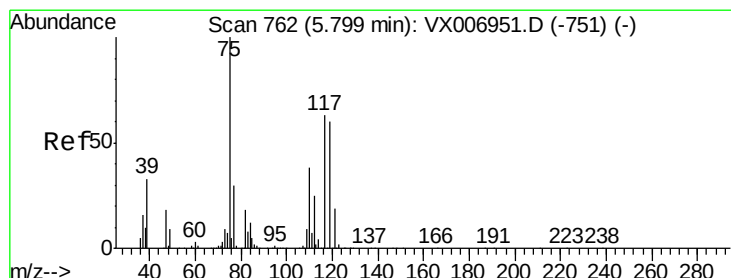
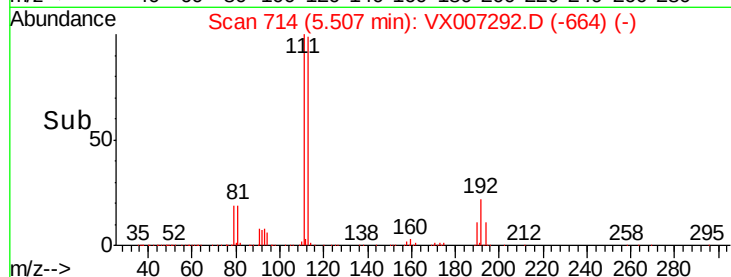
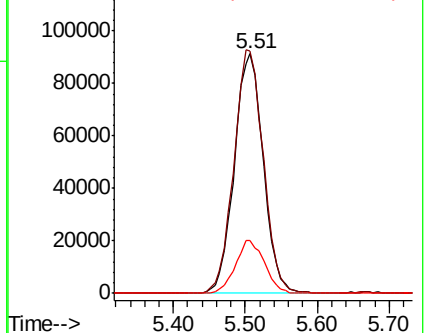
192 22.1 16.7 25.1



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: 4.756 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007292.D

Acq: 29 Jan 2019 17:02

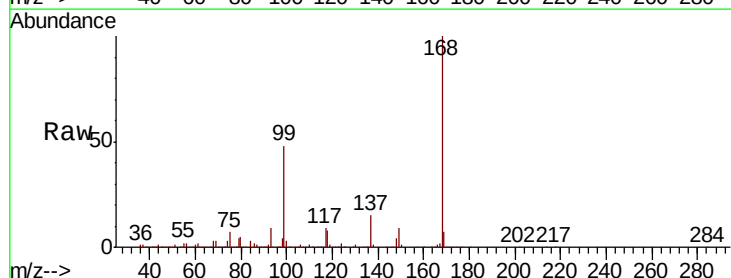
Tgt Ion: 75 Resp: 33750

Ion Ratio Lower Upper

75 100

110 10.4 20.2 60.5#

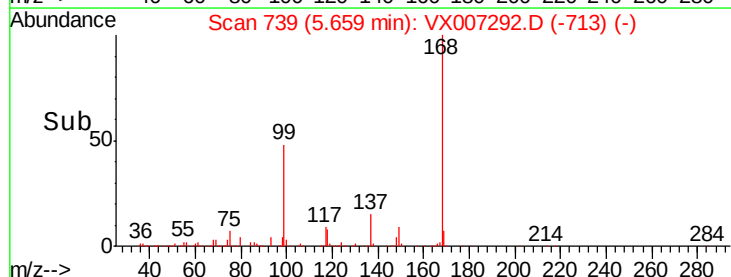
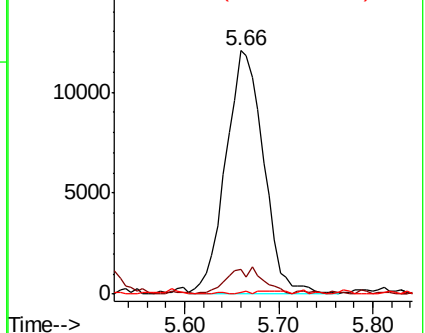
77 0.3 24.8 37.2#

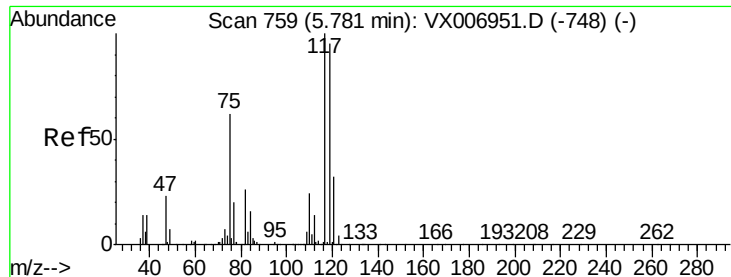


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.561 ug/l

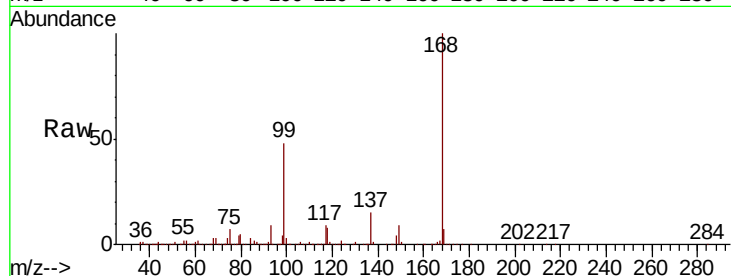
RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

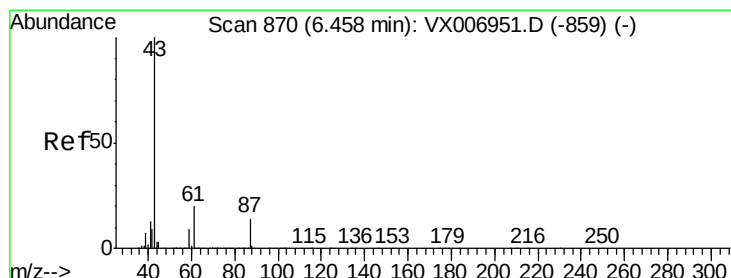
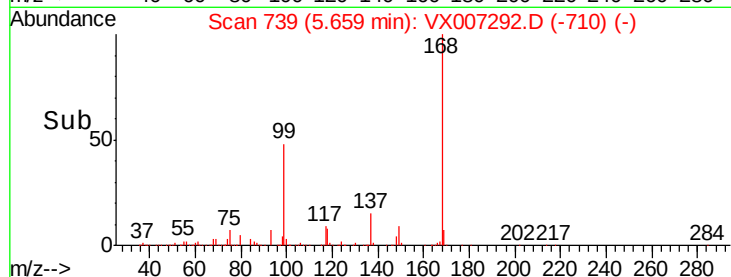
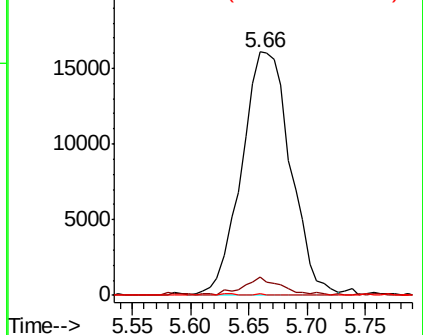
Lab File: VX007292.D

Acq: 29 Jan 2019 17:02

Tot Ion:	117	Resp:	46847
Ion	Ratio	Lower	Upper
117	100		
119	6.8	79.4	119.2#
121	0.5	24.0	36.0#



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: 2.259 ug/l

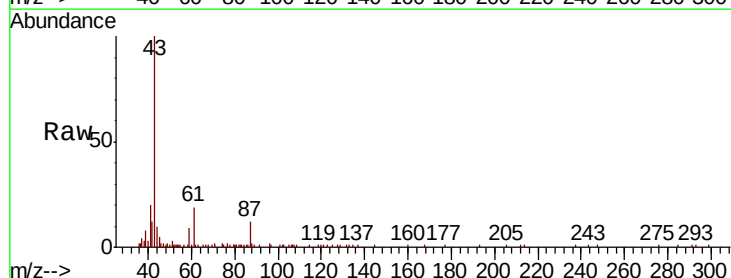
RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

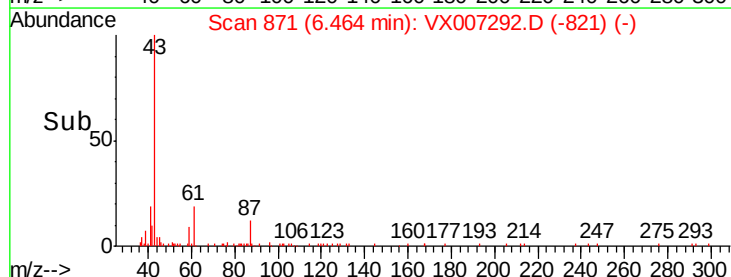
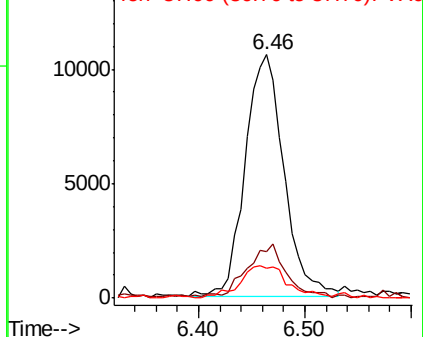
Lab File: VX007292.D

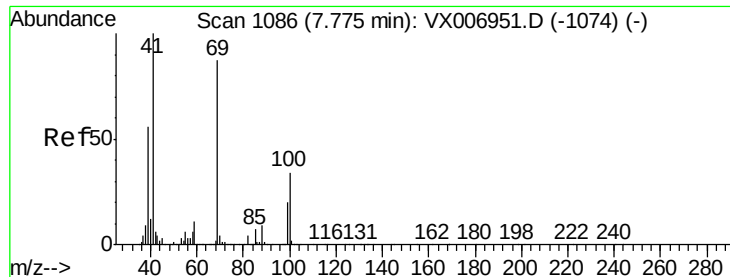
Acq: 29 Jan 2019 17:02

Tgt Ion:	43	Resp:	27110
Ion	Ratio	Lower	Upper
43	100		
61	23.2	16.8	25.2
87	16.6	12.4	18.6



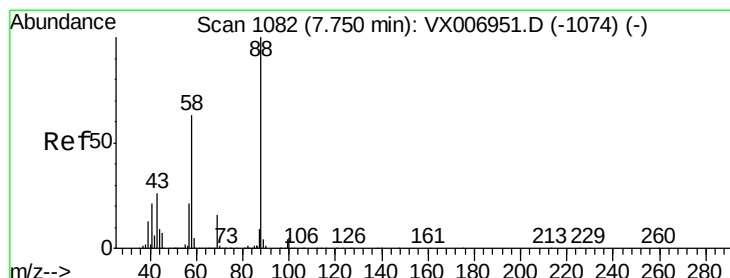
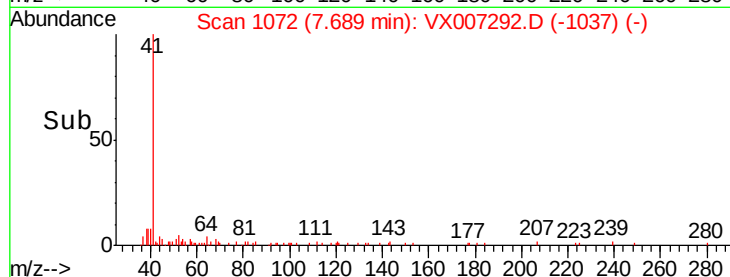
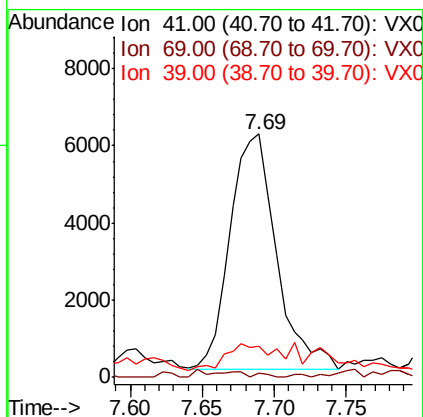
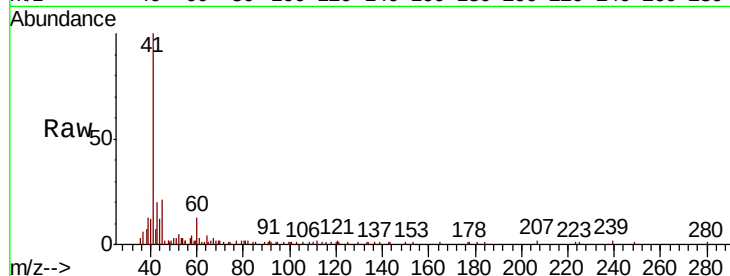
Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0





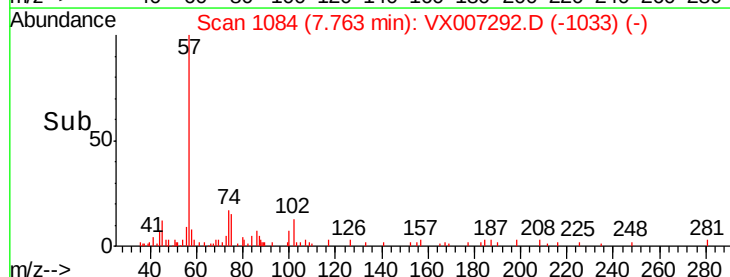
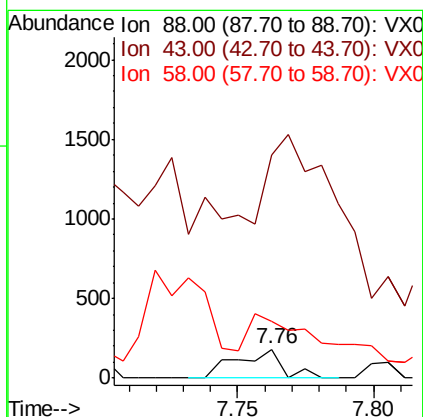
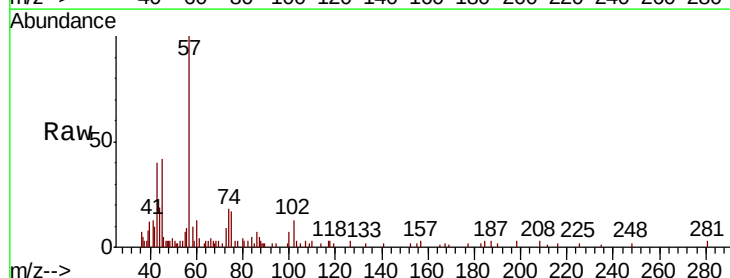
#48
Methvl methacrylate
Concen: 2.206 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX007292.D
Acq: 29 Jan 2019 17:02

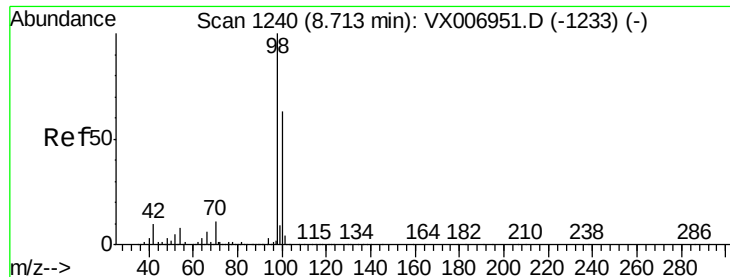
Tot Ion	Ratio	Lower	Upper
41	100		
69	0.8	72.4	108.6#
39	0.0	45.8	68.8#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.76 min Scan# 1084
Delta R.T. 0.01 min
Lab File: VX007292.D
Acq: 29 Jan 2019 17:02

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	22.2	33.4#
58	314.6	51.0	76.4#





#50

Toluene-d8

Concen: 51.895 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007292.D

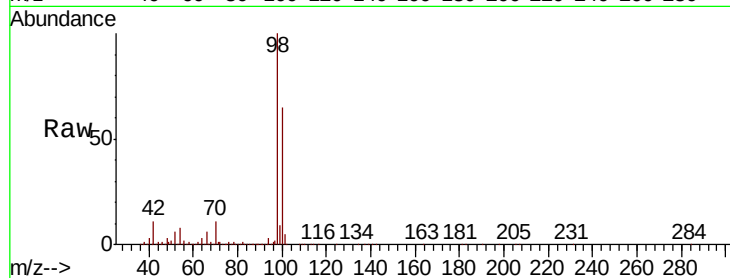
Acq: 29 Jan 2019 17:02

Tot Ion: 98 Resp: 992943

Ion Ratio Lower Upper

98 100

100 63.8 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

600000

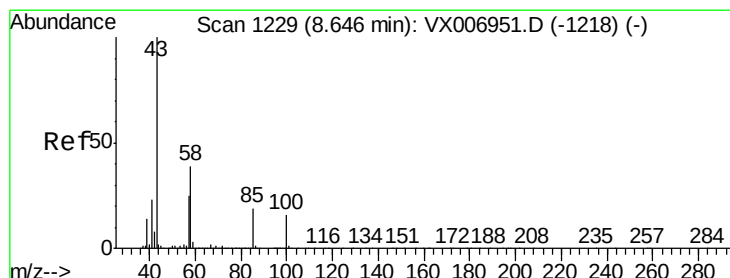
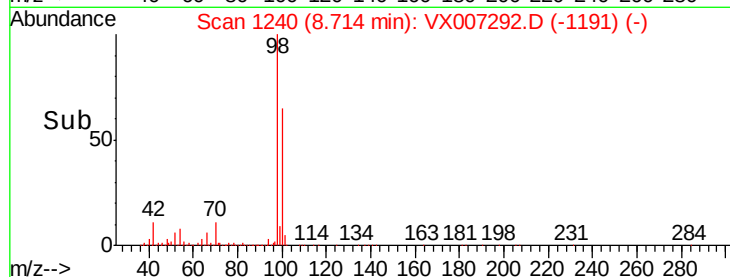
400000

200000

0

8.60 8.70 8.80 8.90

Time-->



#51

4-Methyl-2-Pentanone

Concen: 19.134 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007292.D

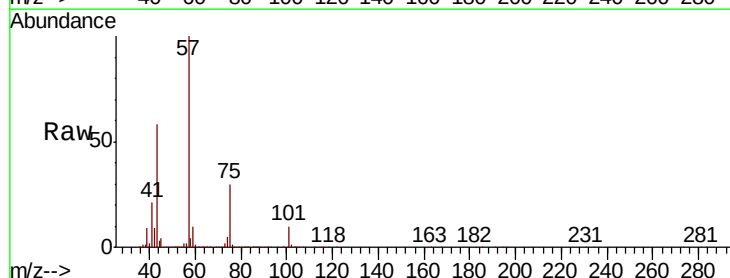
Acq: 29 Jan 2019 17:02

Tgt Ion: 43 Resp: 147579

Ion Ratio Lower Upper

43 100

58 8.4 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

100000

80000

60000

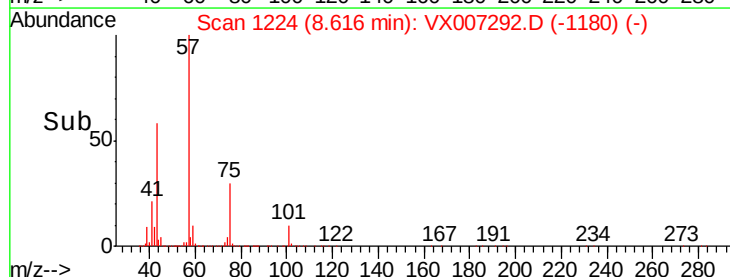
40000

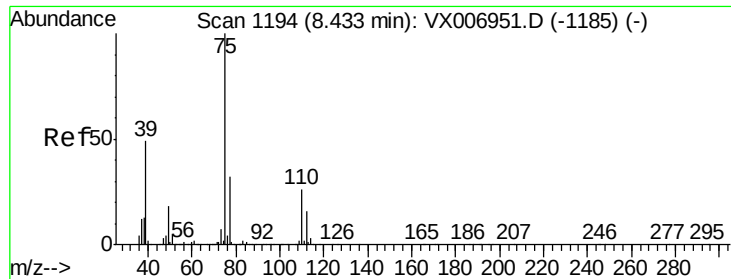
20000

0

8.50 8.60 8.70

Time-->





#54

cis-1,3-Dichloropropene

Concen: 9.115 ug/l

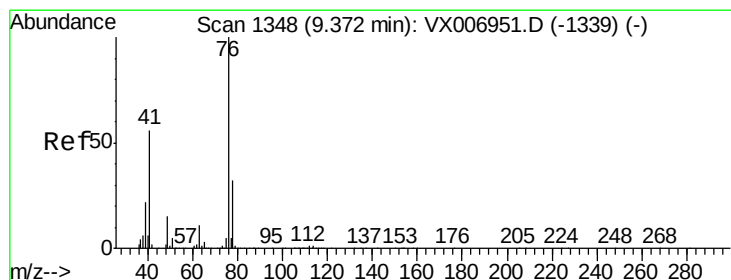
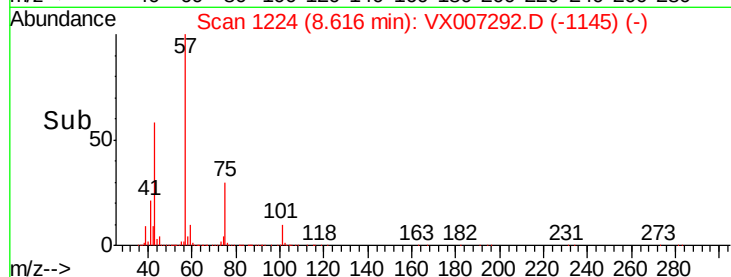
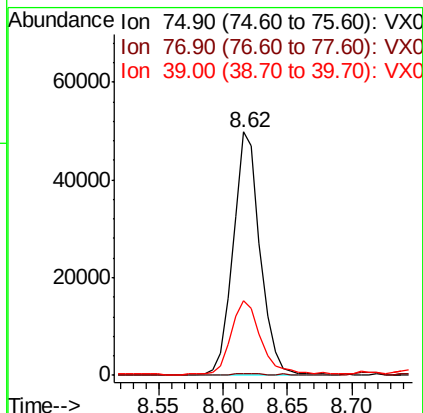
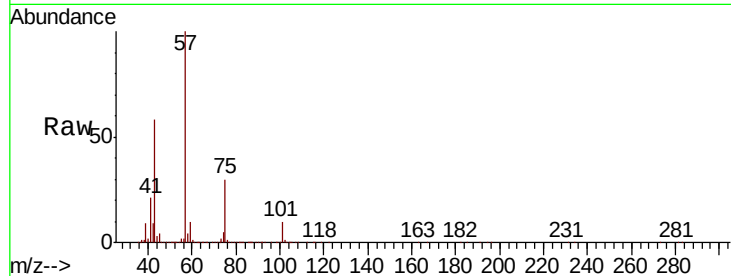
RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007292.D

Acq: 29 Jan 2019 17:02

Tot Ion:	75	Resp:	72696
Ion	Ratio	Lower	Upper
75	100		
77	0.9	26.2	39.2#
39	29.9	36.7	55.1#



#57

1,3-Dichloropropene

Concen: 1.767 ug/l

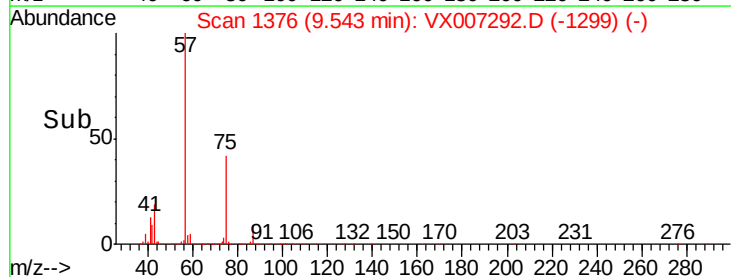
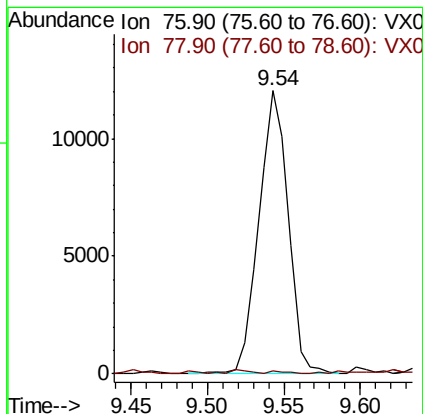
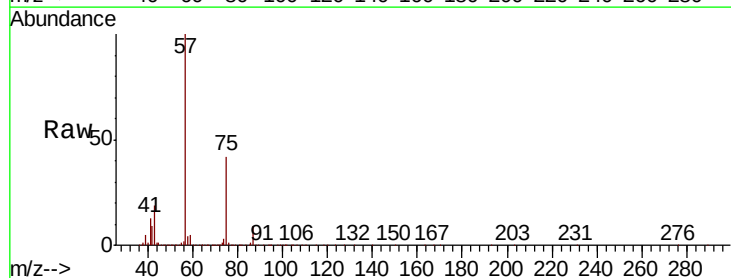
RT: 9.54 min Scan# 1376

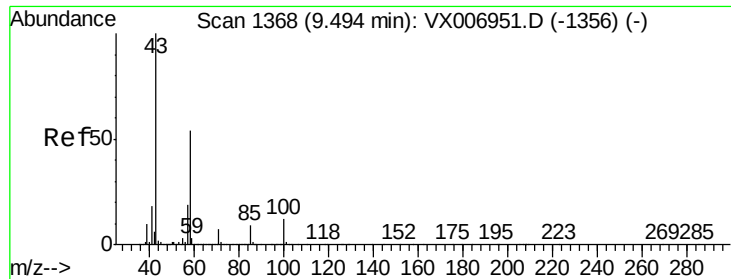
Delta R.T. 0.17 min

Lab File: VX007292.D

Acq: 29 Jan 2019 17:02

Tgt Ion:	76	Resp:	16125
Ion	Ratio	Lower	Upper
76	100		
78	0.7	26.0	39.0#





#59

2-Hexanone

Concen: 37.577 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007292.D

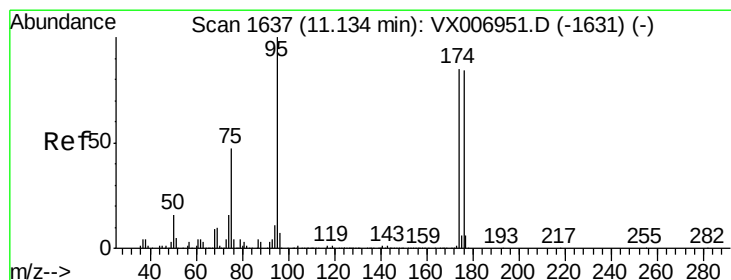
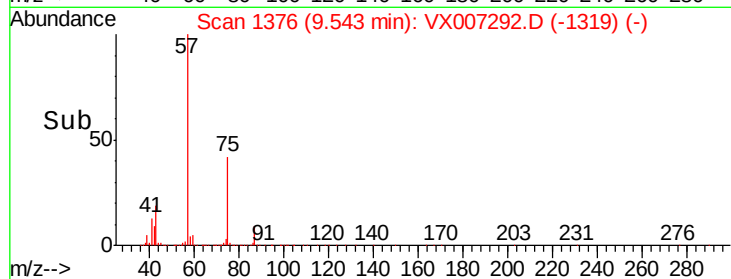
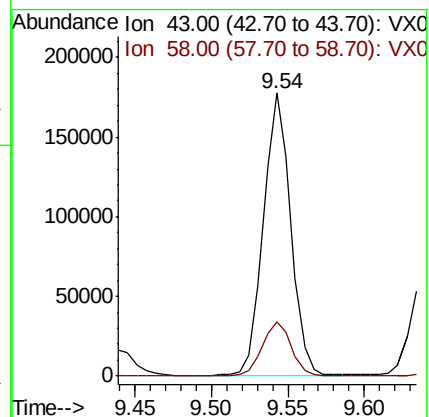
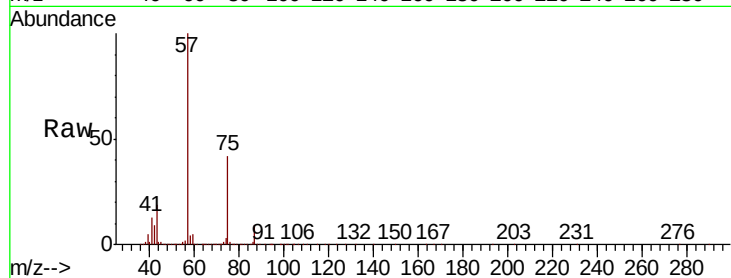
Acq: 29 Jan 2019 17:02

Tot Ion: 43 Resp: 220862

Ion Ratio Lower Upper

43 100

58 20.3 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 51.656 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007292.D

Acq: 29 Jan 2019 17:02

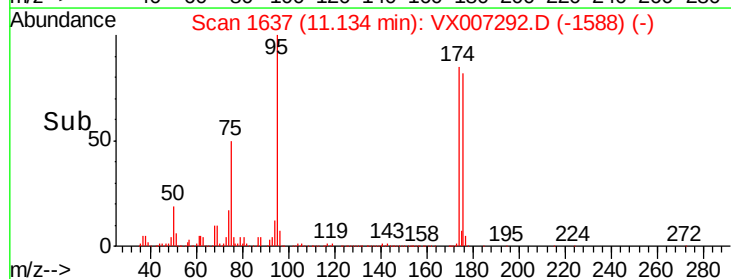
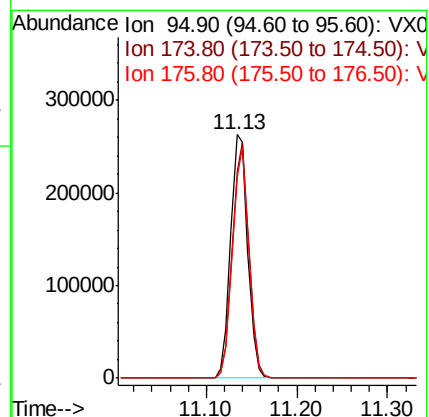
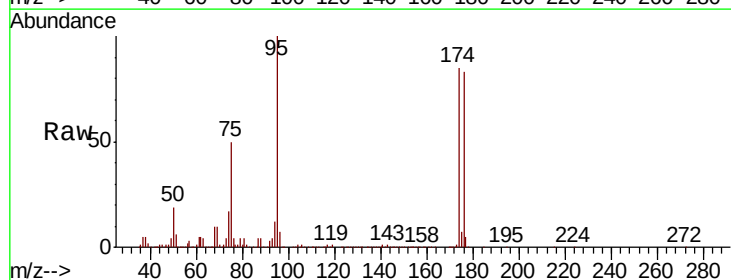
Tgt Ion: 95 Resp: 344569

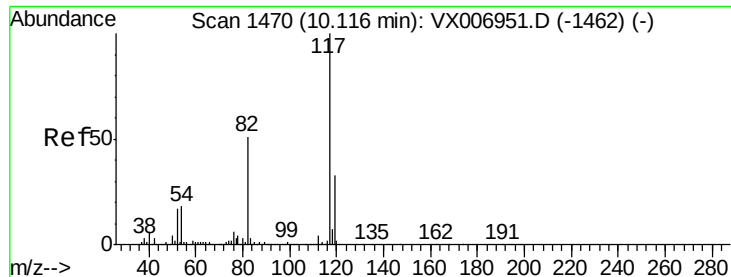
Ion Ratio Lower Upper

95 100

174 93.5 0.0 182.2

176 90.8 0.0 178.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX007292.D

Acq: 29 Jan 2019 17:02

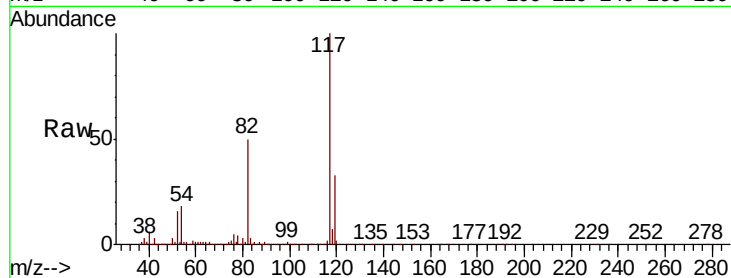
Tot Ion:117 Resp: 784279

Ion	Ratio	Lower	Upper
117	100		
82	50.1	41.0	61.6
119	33.0	25.4	38.0

117 100

82 50.1 41.0 61.6

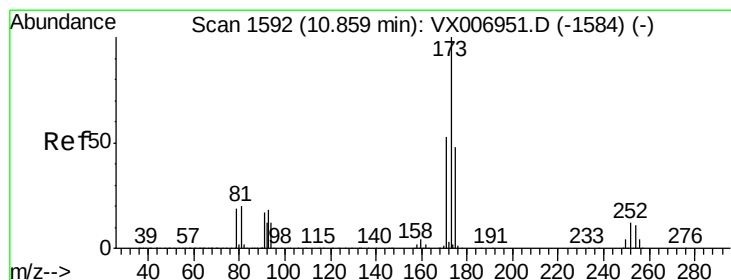
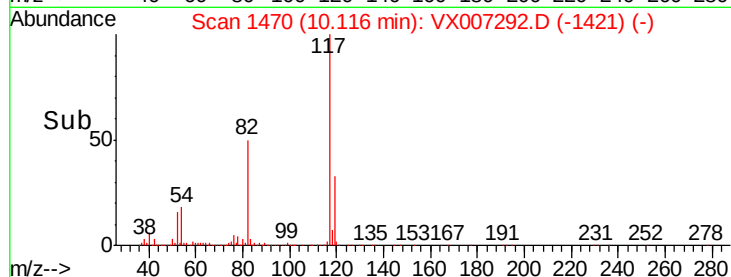
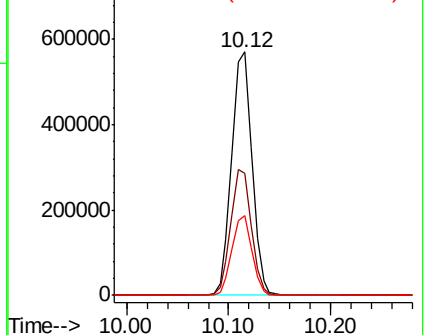
119 33.0 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 4.748 ug/l

RT: 10.82 min Scan# 1585

Delta R.T. -0.04 min

Lab File: VX007292.D

Acq: 29 Jan 2019 17:02

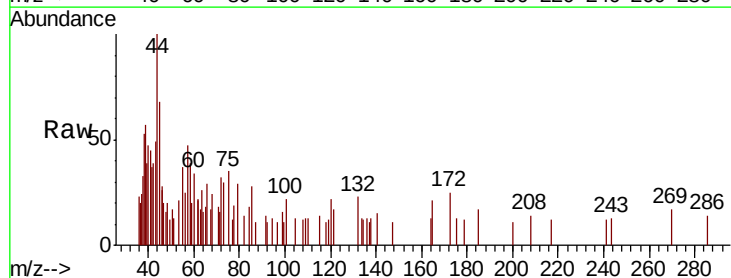
Tgt Ion:173 Resp: 119

Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.7	74.1#
254	0.0	0.2	0.2#

173 100

175 0.0 24.7 74.1#

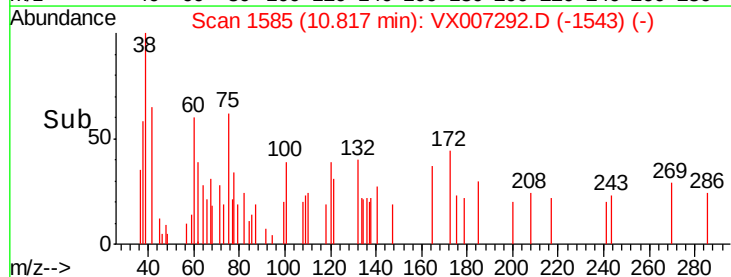
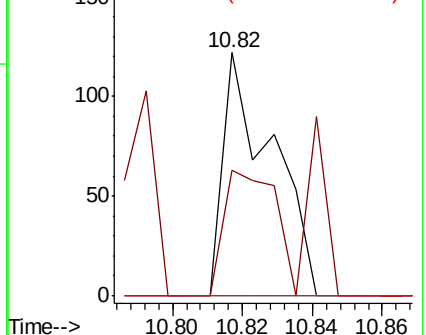
254 0.0 0.2 0.2#

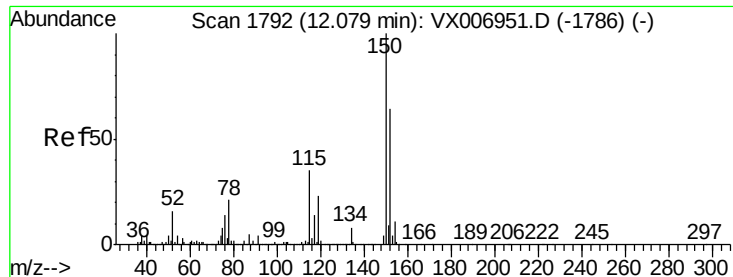


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

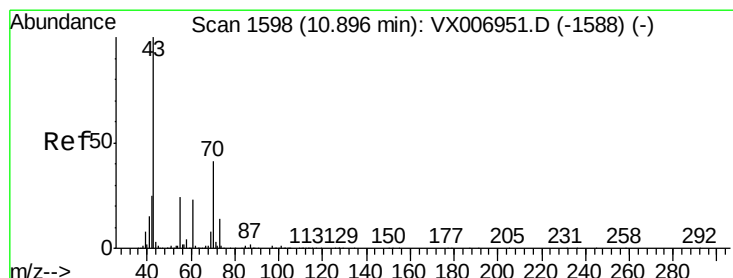
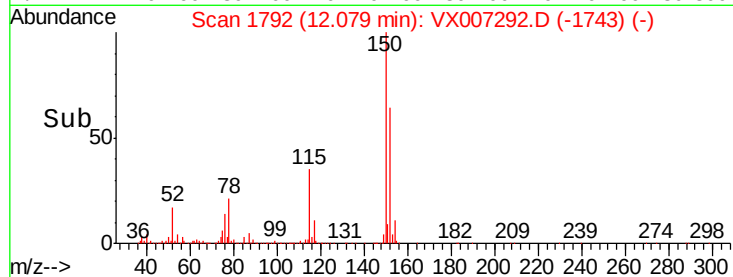
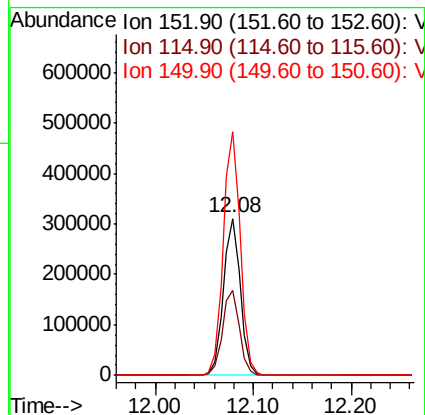
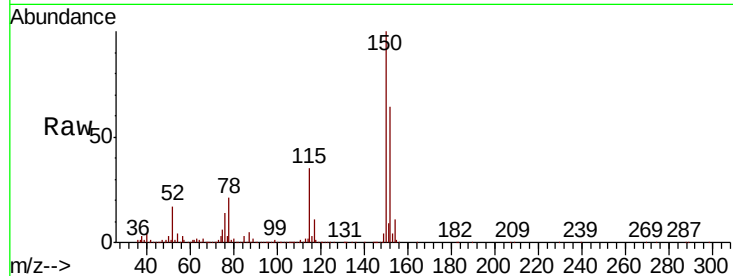




#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007292.D
Acq: 29 Jan 2019 17:02

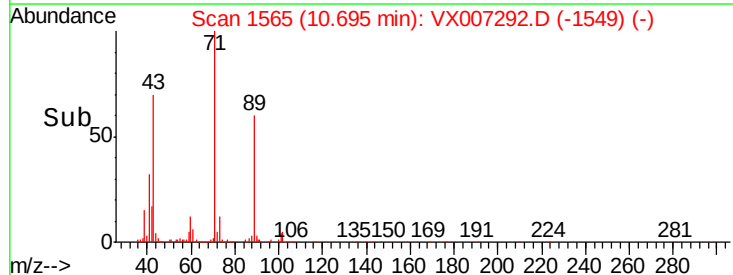
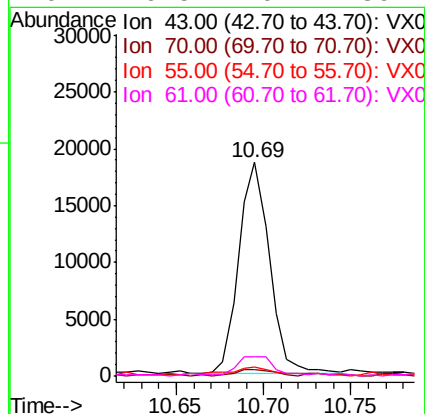
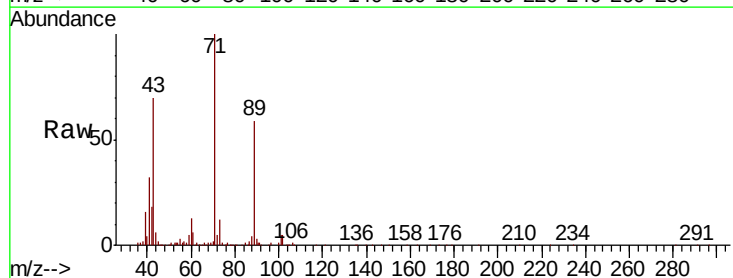
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.4	39.1	117.2
150	156.1	0.0	344.8

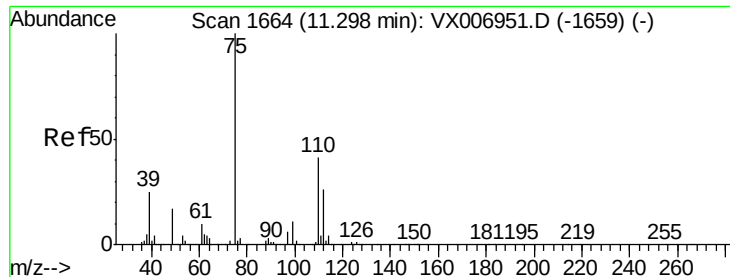


#74

N-amyl acetate
Concen: 2.174 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.20 min
Lab File: VX007292.D
Acq: 29 Jan 2019 17:02

Tgt Ion	Ratio	Lower	Upper
43	100		
70	3.9	35.8	53.8#
55	5.0	19.4	29.0#
61	10.5	20.1	30.1#

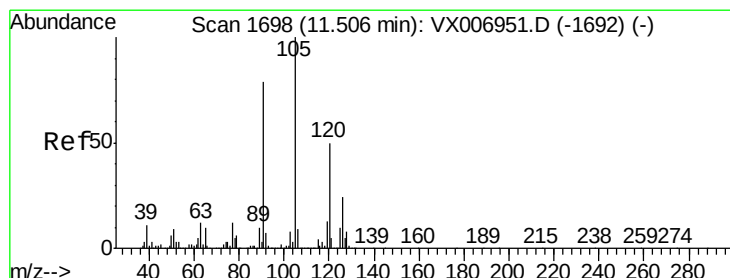
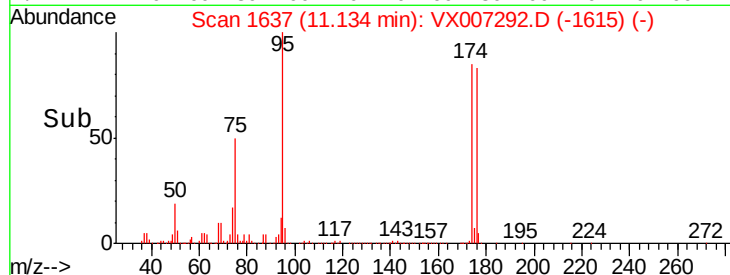
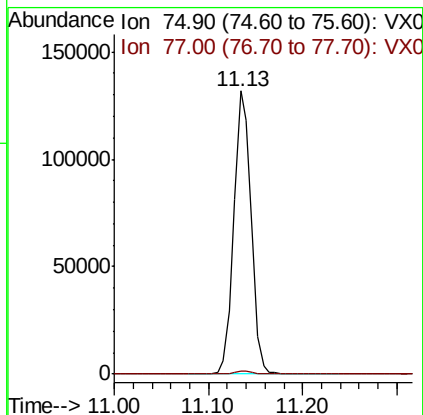
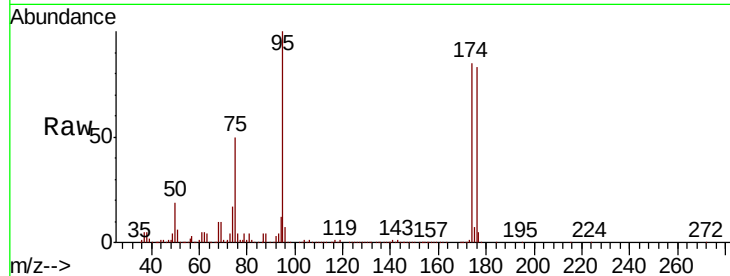




#76

1,2,3-Trichloropropane
Concen: 22.271 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX007292.D
Acq: 29 Jan 2019 17:02

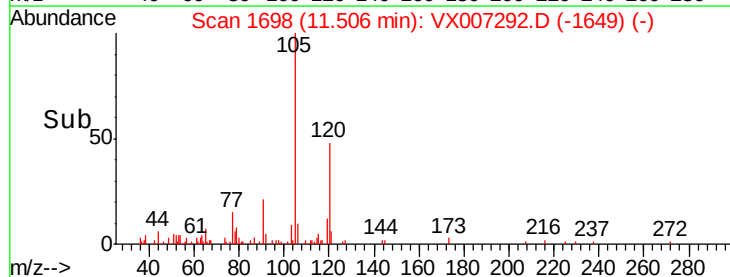
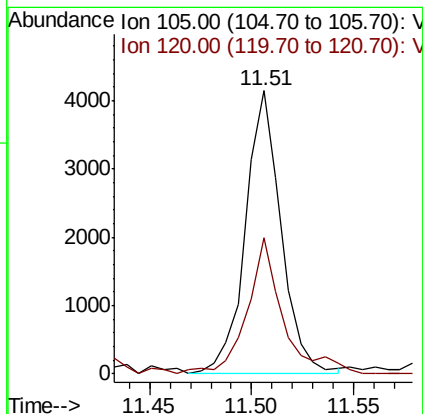
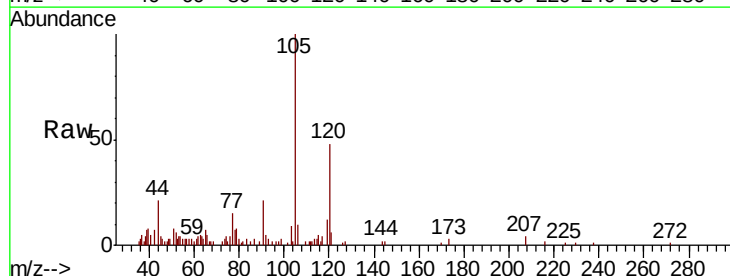
Tot Ion: 75 Resp: 167118
Ion Ratio Lower Upper
75 100
77 1.3 18.5 55.5#

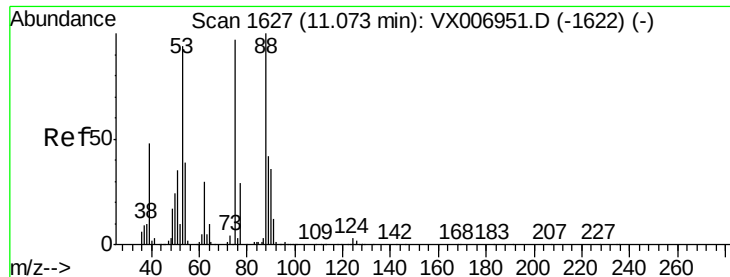


#80

1,3,5-Trimethylbenzene
Concen: 0.231 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. 0.00 min
Lab File: VX007292.D
Acq: 29 Jan 2019 17:02

Tgt Ion:105 Resp: 5042
Ion Ratio Lower Upper
105 100
120 48.8 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 65.909 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007292.D

Acq: 29 Jan 2019 17:02

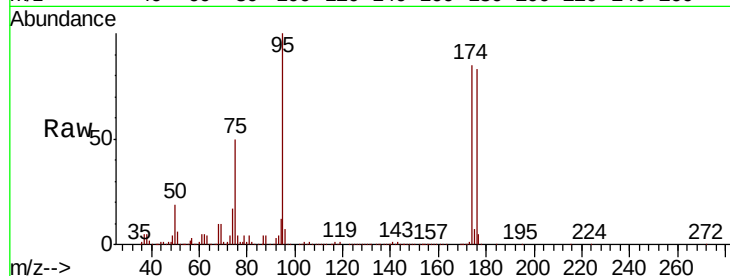
Tot Ion: 75 Resp: 167118

Ion Ratio Lower Upper

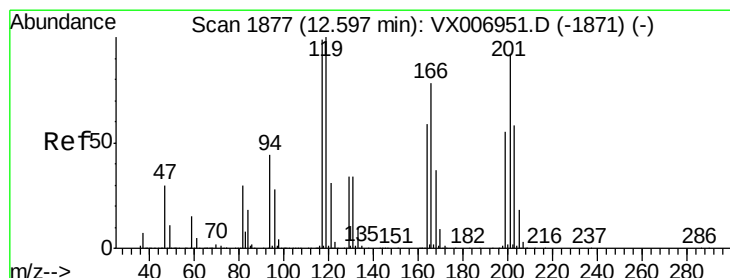
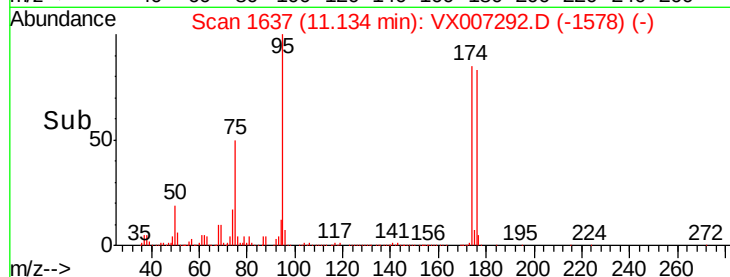
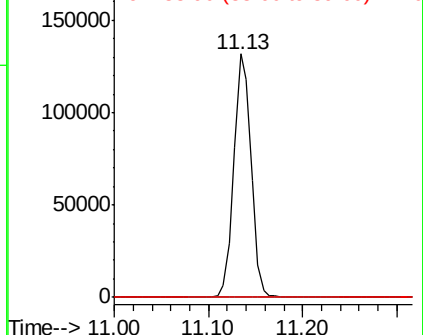
75 100

53 0.2 79.7 119.5#

89 0.2 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 2.923 ug/l

RT: 12.63 min Scan# 1883

Delta R.T. 0.04 min

Lab File: VX007292.D

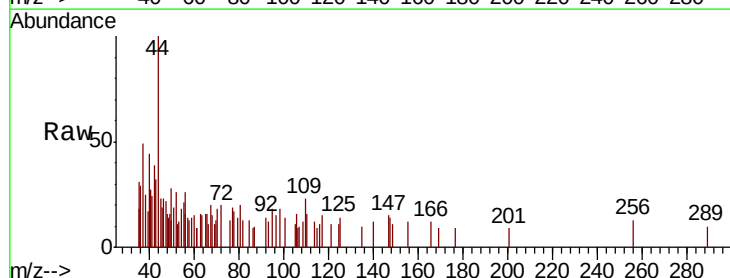
Acq: 29 Jan 2019 17:02

Tgt Ion: 117 Resp: 58

Ion Ratio Lower Upper

117 100

201 67.2 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

