

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012919\
 Data File : VX007298.D
 Acq On : 29 Jan 2019 19:42
 Operator : JC/SP
 Sample : K1010-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

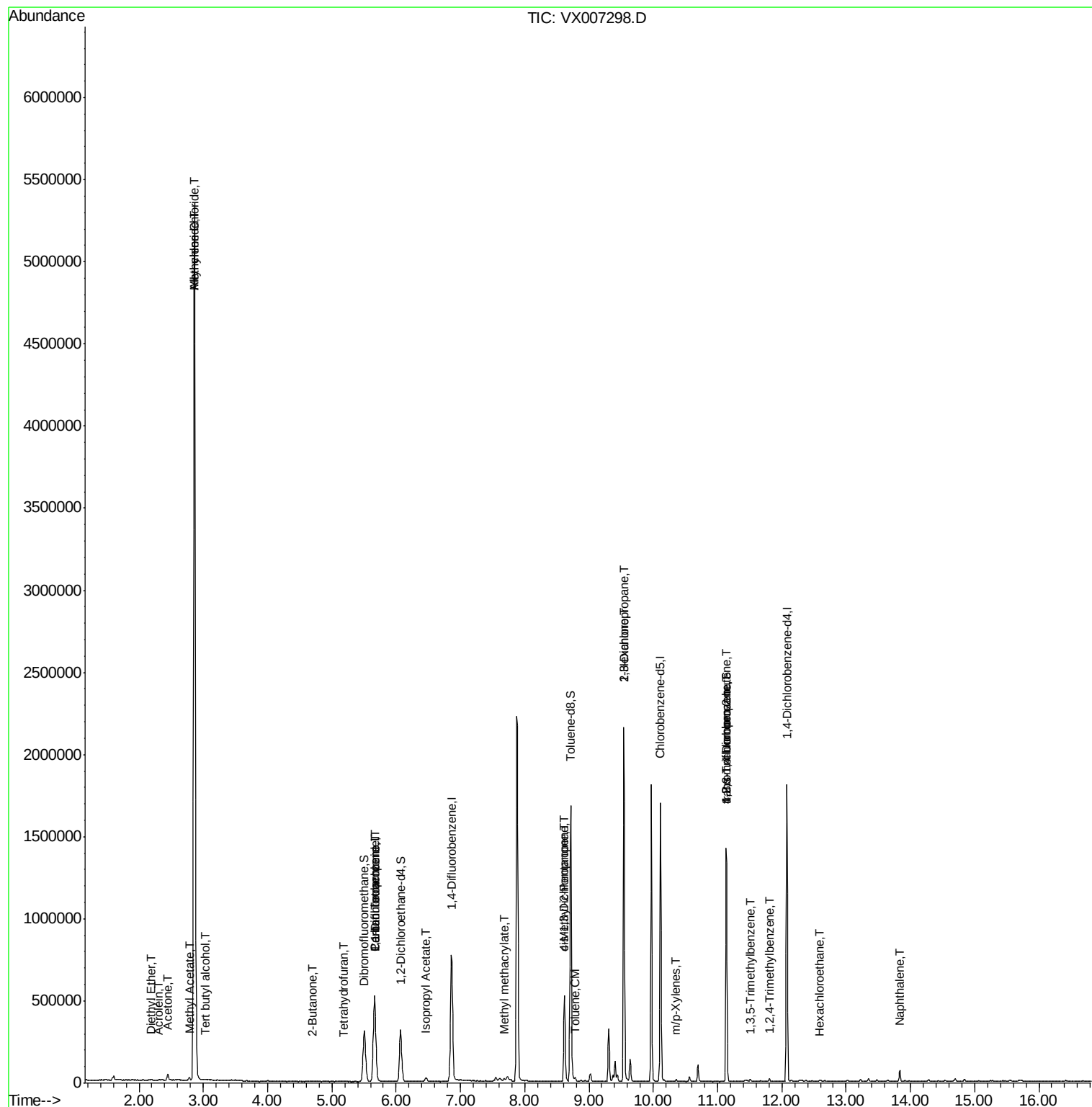
Quant Time: Jan 30 00:47:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

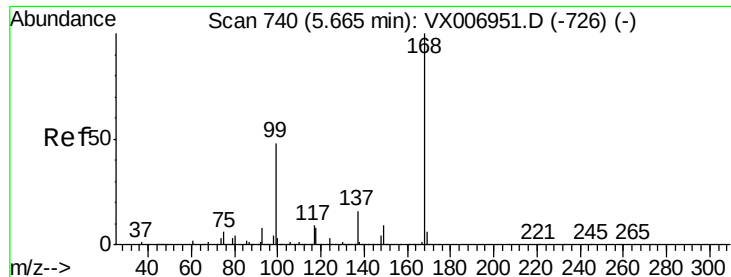
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	534957	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	824233	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	805303	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	388139	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	289137	51.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.44%	
35) Dibromofluoromethane	5.51	113	261998	49.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.28%	
50) Toluene-d8	8.71	98	1016346	52.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.20%	
62) 4-Bromofluorobenzene	11.13	95	362051	53.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.50%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.19	74	2545	0.720	ug/l	74
11) Tert butyl alcohol	3.02	59	824	0.625	ug/l #	61
13) Acrolein	2.30	56	371	3.728	ug/l #	66
14) Allyl chloride	2.86	41	86171	10.226	ug/l #	26
16) Acetone	2.45	43	39228	14.193	ug/l	93
18) Methyl Acetate	2.78	43	20147	2.517	ug/l	92
20) Methylene Chloride	2.86	84	2452907	471.373	ug/l	94
25) 2-Butanone	4.70	43	7840	1.982	ug/l #	80
29) Tetrahydrofuran	5.18	42	3260	1.268	ug/l #	30
36) 1,1-Dichloropropene	5.67	75	33188	4.631	ug/l #	48
38) Carbon Tetrachloride	5.67	117	48045	6.664	ug/l #	14
43) Isopropyl Acetate	6.46	43	31496	2.599	ug/l	99
48) Methyl methacrylate	7.68	41	17368	2.791	ug/l #	12
49) 1,4-Dioxane	7.76	88	136	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	167460	21.502	ug/l #	49
52) Toluene	8.79	92	4017	0.286	ug/l	99
54) cis-1,3-Dichloropropene	8.62	75	83047	10.313	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	18403	1.997	ug/l #	43
59) 2-Hexanone	9.54	43	234641	39.536	ug/l #	51
68) m/p-Xylenes	10.35	106	2999	0.263	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	171390	21.790	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	6232	0.273	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	171390	64.567	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	8058	0.350	ug/l	98
90) Hexachloroethane	12.59	117	395	3.004	ug/l #	21
95) Naphthalene	13.83	128	41164	1.472	ug/l #	95

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

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Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007298.D

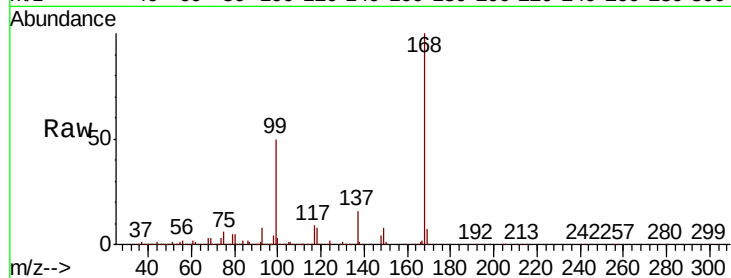
Acq: 29 Jan 2019 19:42

Tot Ion:168 Resp: 534957

Ion Ratio Lower Upper

168 100

99 50.5 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

200000

150000

100000

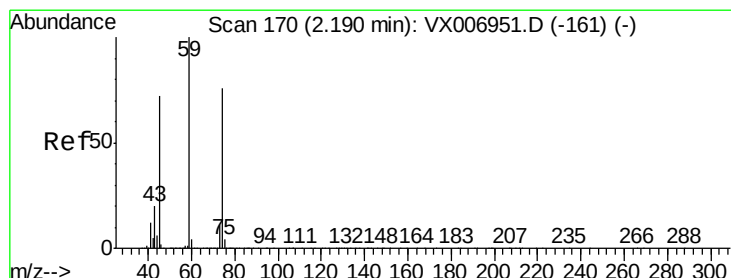
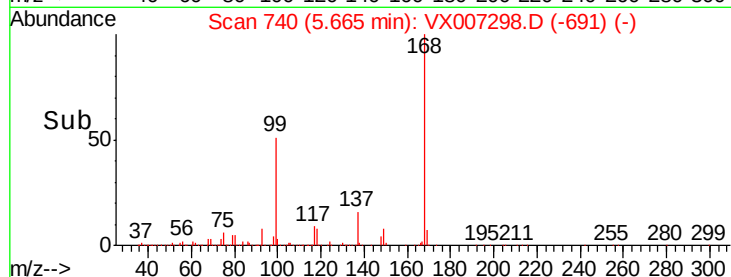
50000

0

5.67

5.50 5.60 5.70 5.80 5.90

Time-->



#8

Diethyl Ether

Concen: 0.720 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX007298.D

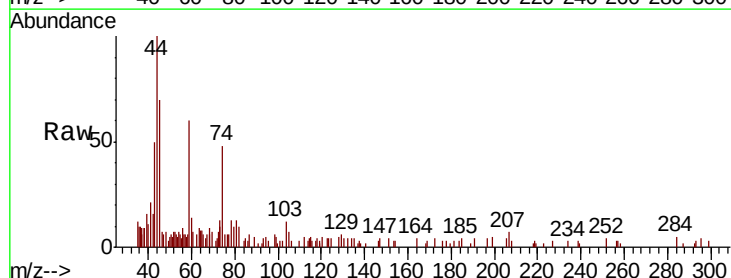
Acq: 29 Jan 2019 19:42

Tgt Ion: 74 Resp: 2545

Ion Ratio Lower Upper

74 100

45 67.4 46.3 138.9



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

1500

1000

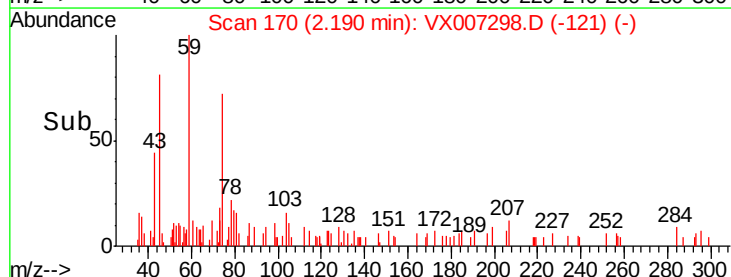
500

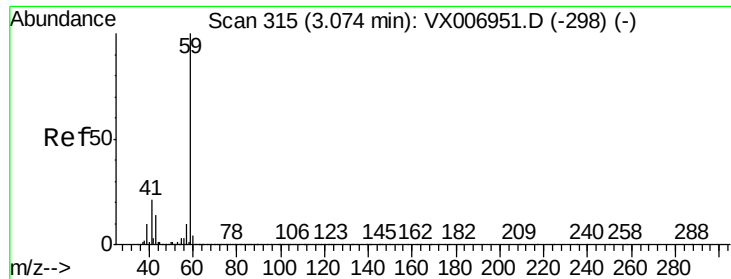
0

2.19

2.15 2.20 2.25

Time-->

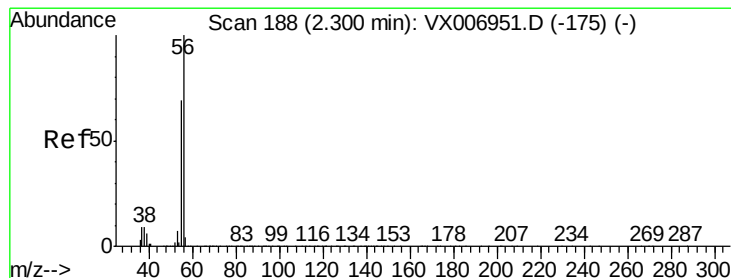
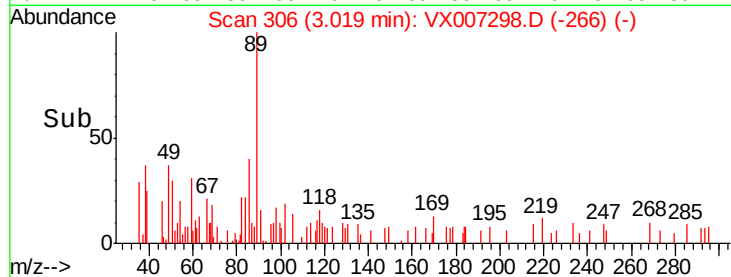
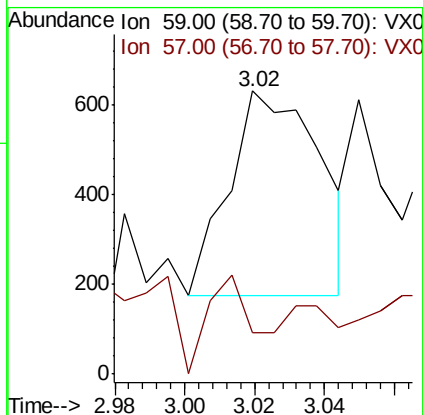
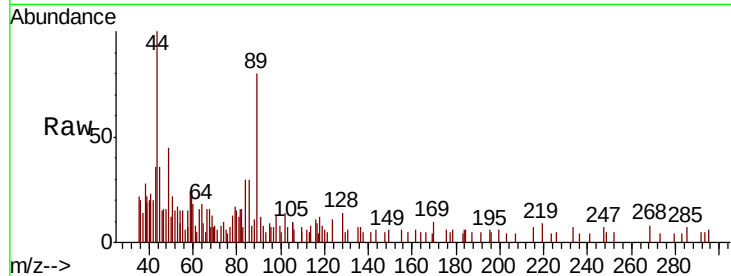




#11

Tert butyl alcohol
Concen: 0.625 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.05 min
Lab File: VX007298.D
Acq: 29 Jan 2019 19:42

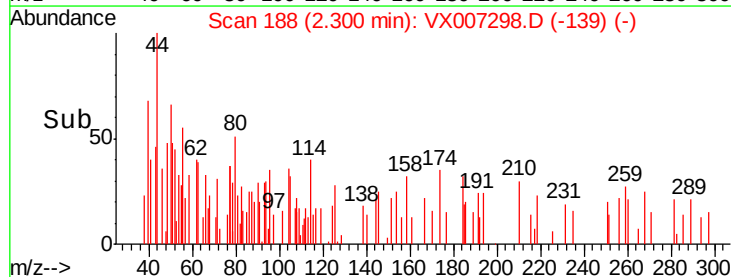
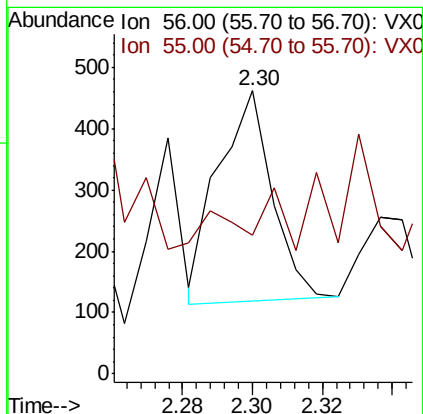
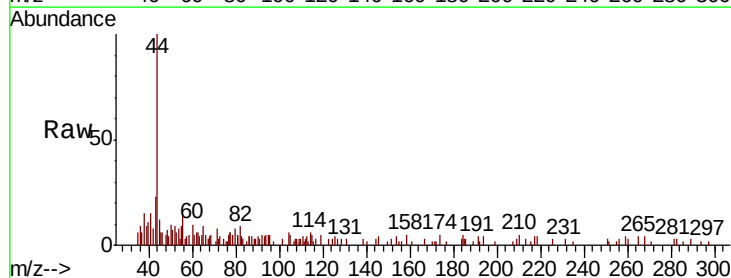
Tot Ion: 59 Resp: 824
Ion Ratio Lower Upper
59 100
57 25.4 8.5 12.7#

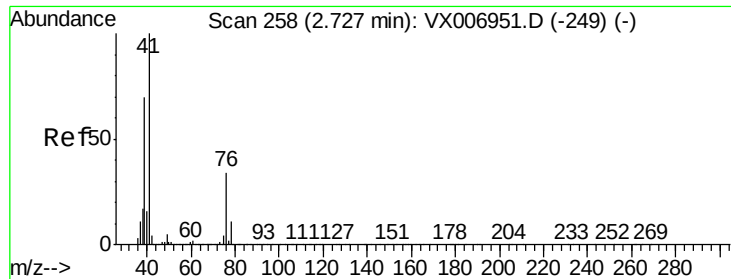


#13

Acrolein
Concen: 3.728 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.00 min
Lab File: VX007298.D
Acq: 29 Jan 2019 19:42

Tgt Ion: 56 Resp: 371
Ion Ratio Lower Upper
56 100
55 44.5 58.2 87.4#





#14

Allvl chloride

Concen: 10.226 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.13 min

Lab File: VX007298.D

Acq: 29 Jan 2019 19:42

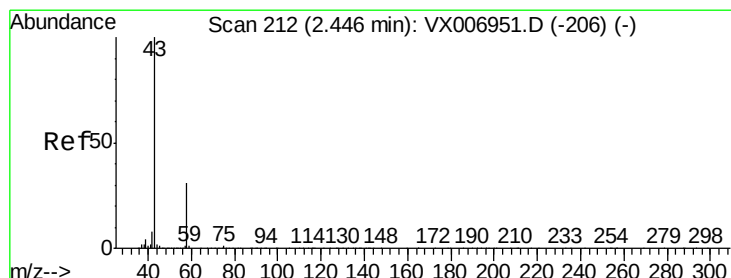
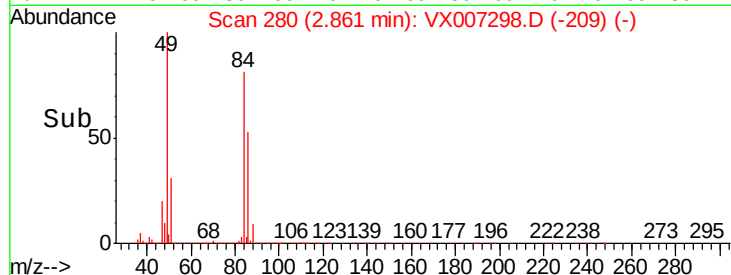
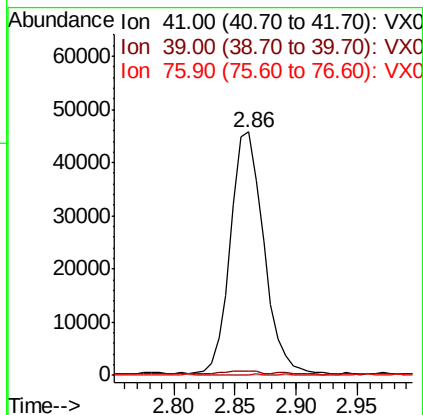
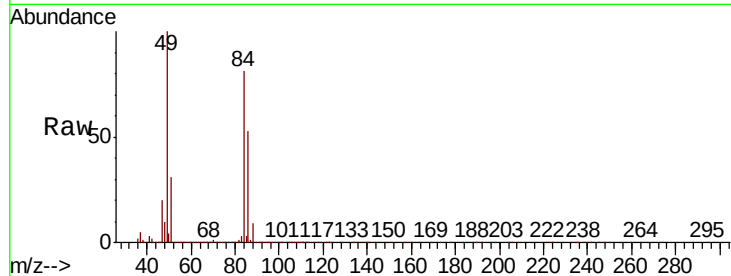
Tot Ion: 41 Resp: 86171

Ion Ratio Lower Upper

41 100

39 1.5 53.6 80.4#

76 0.1 27.4 41.2#



#16

Acetone

Concen: 14.193 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007298.D

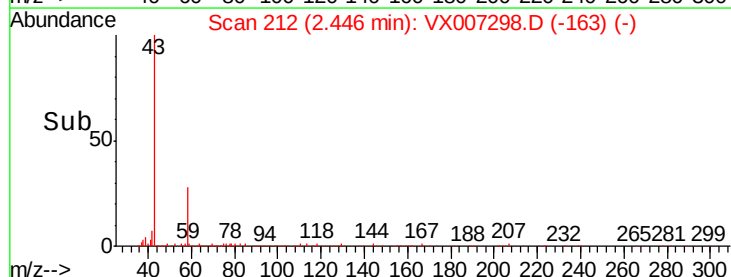
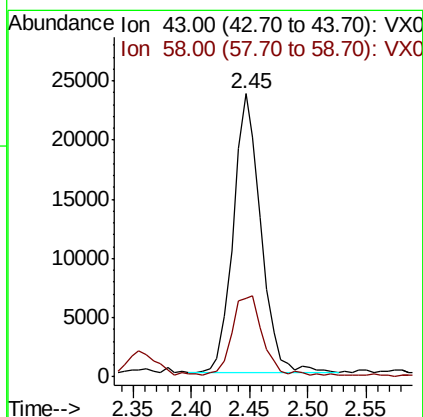
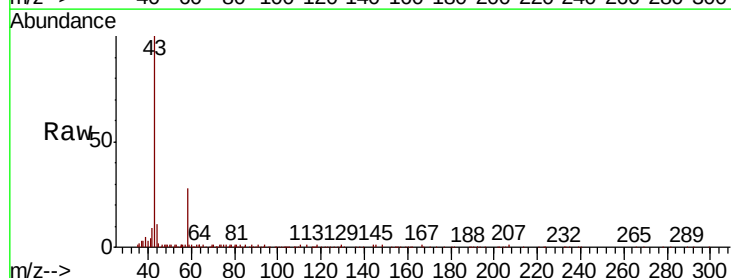
Acq: 29 Jan 2019 19:42

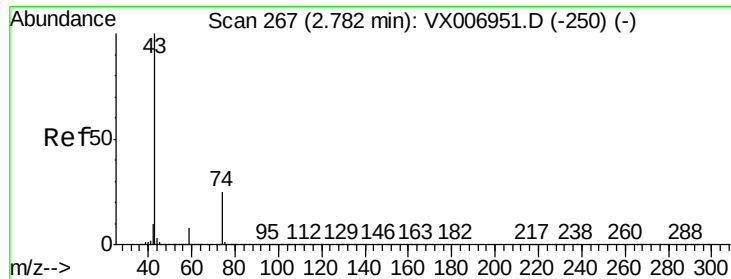
Tgt Ion: 43 Resp: 39228

Ion Ratio Lower Upper

43 100

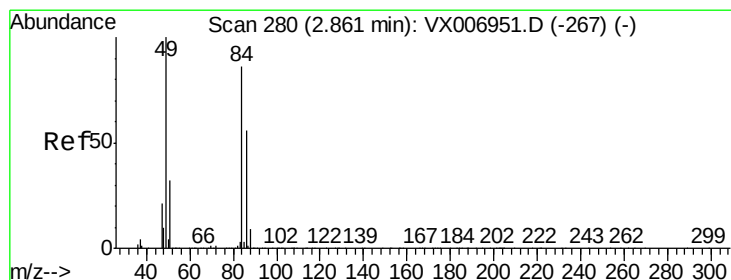
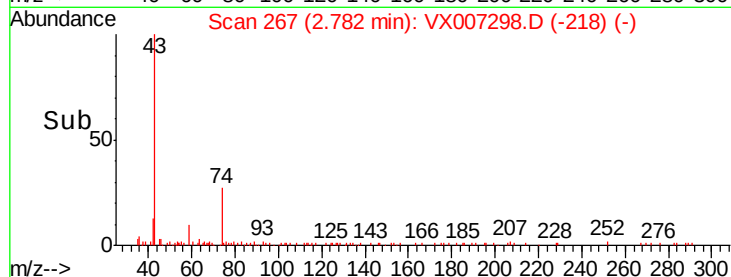
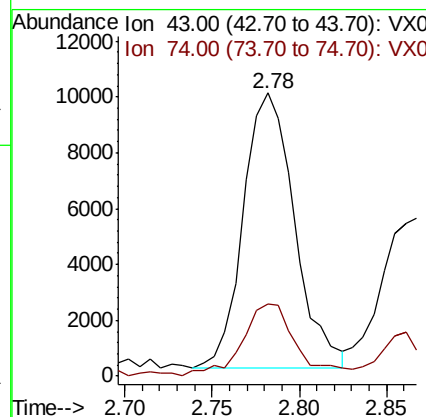
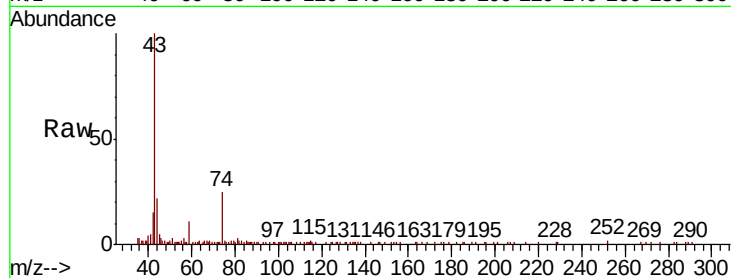
58 27.4 25.0 37.6





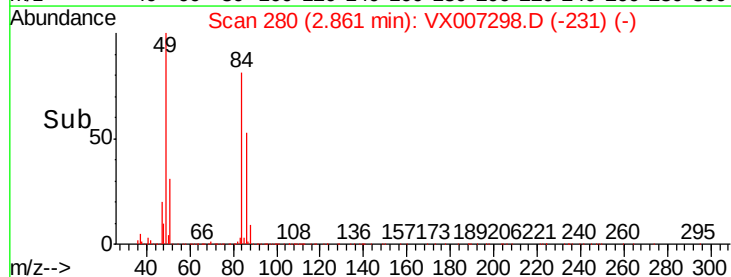
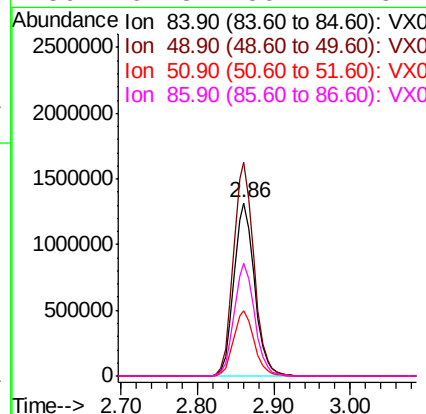
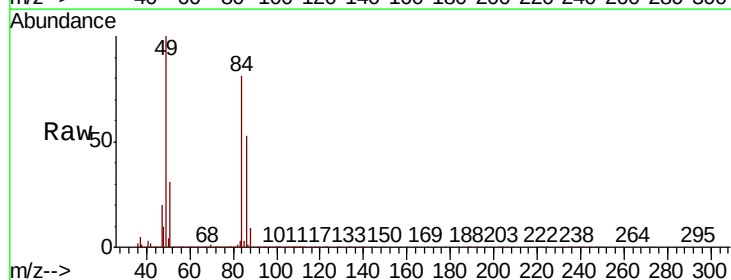
#18
Methvl Acetate
Concen: 2.517 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX007298.D
Acq: 29 Jan 2019 19:42

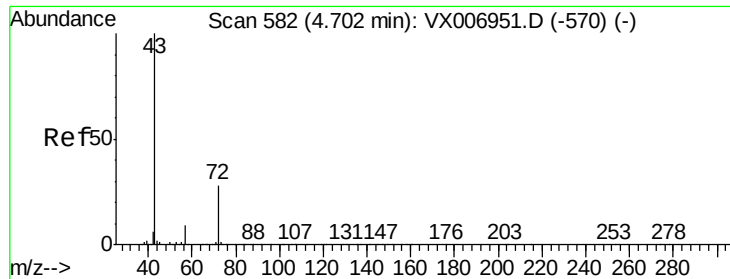
Tot Ion: 43 Resp: 20147
Ion Ratio Lower Upper
43 100
74 27.4 18.6 28.0



#20
Methylene Chloride
Concen: 471.373 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007298.D
Acq: 29 Jan 2019 19:42

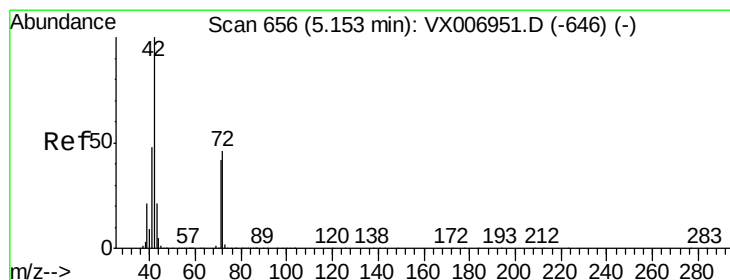
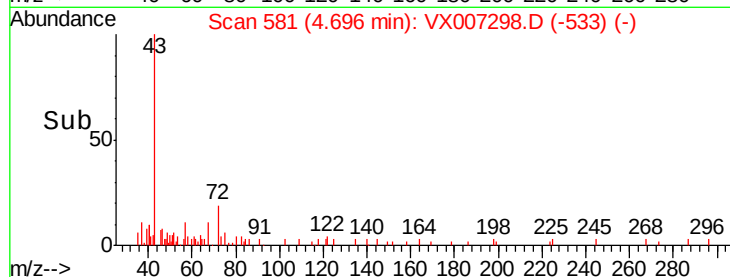
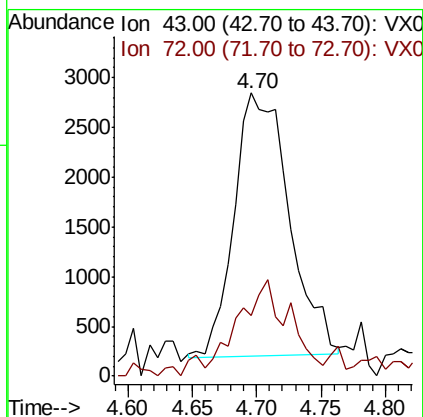
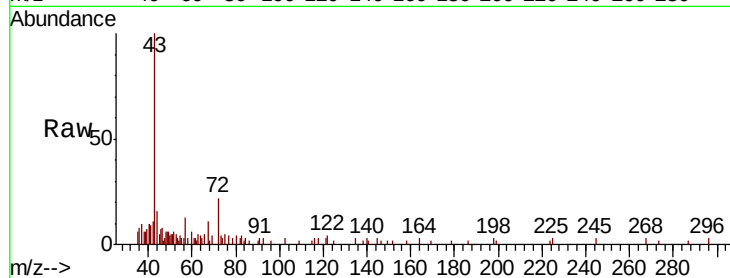
Tgt Ion: 84 Resp: 2452907
Ion Ratio Lower Upper
84 100
49 123.1 91.8 137.6
51 37.6 28.5 42.7
86 64.8 50.2 75.2





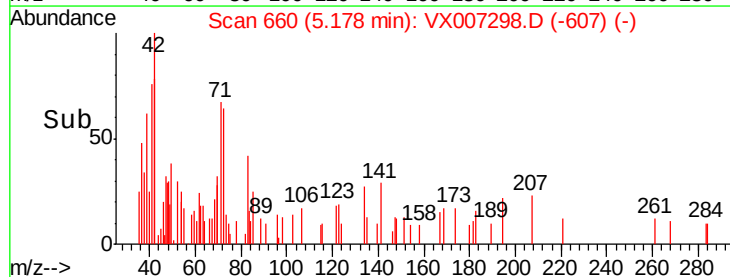
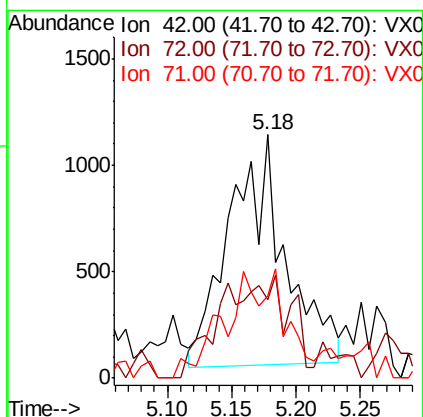
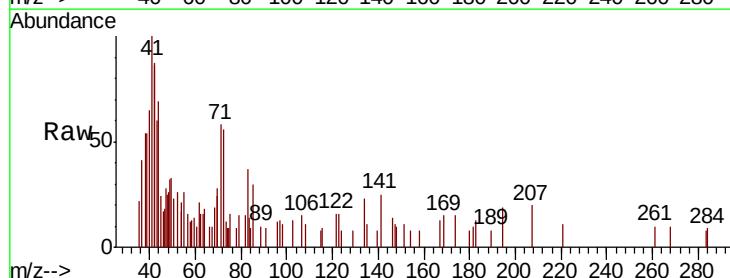
#25
2-Butanone
Concen: 1.982 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.01 min
Lab File: VX007298.D
Acq: 29 Jan 2019 19:42

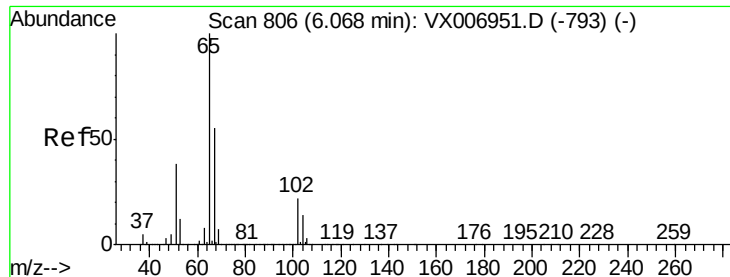
Tot Ion: 43 Resp: 7840
Ion Ratio Lower Upper
43 100
72 17.6 22.4 33.6#



#29
Tetrahydrofuran
Concen: 1.268 ug/l
RT: 5.18 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX007298.D
Acq: 29 Jan 2019 19:42

Tgt Ion: 42 Resp: 3260
Ion Ratio Lower Upper
42 100
72 0.0 38.9 58.3#
71 0.0 36.2 54.4#





#33

1,2-Dichloroethane-d4

Concen: 51.717 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007298.D

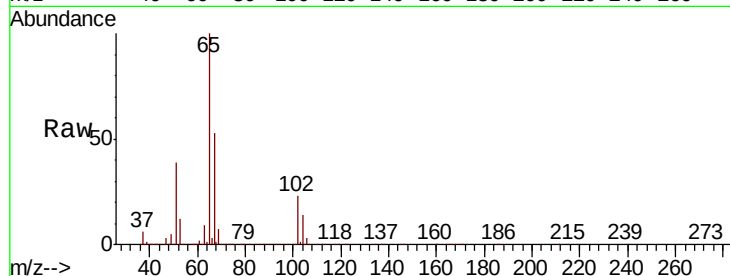
Acq: 29 Jan 2019 19:42

Tot Ion: 65 Resp: 289137

Ion Ratio Lower Upper

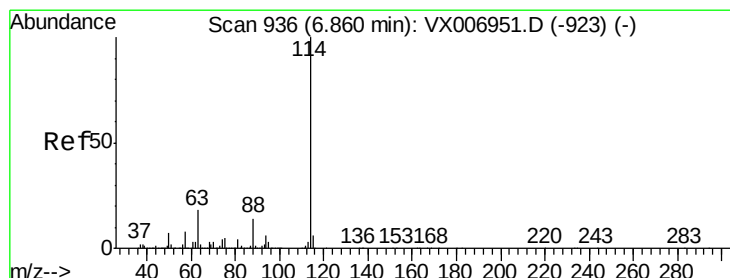
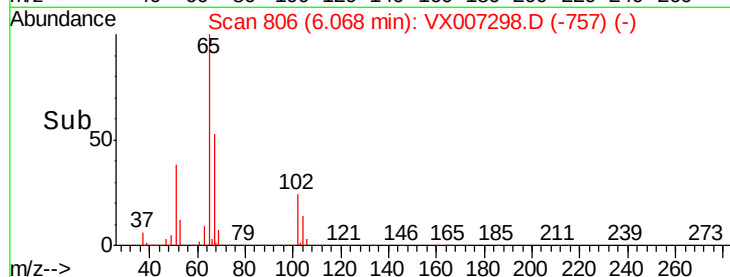
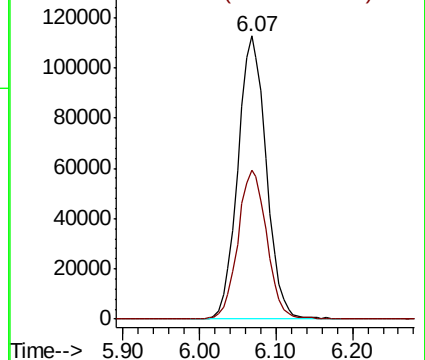
65 100

67 53.4 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007298.D

Acq: 29 Jan 2019 19:42

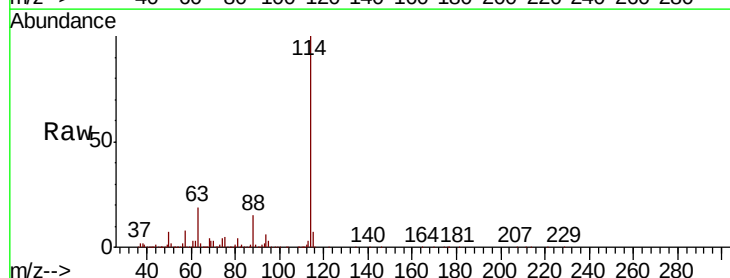
Tgt Ion: 114 Resp: 824233

Ion Ratio Lower Upper

114 100

63 18.8 0.0 34.8

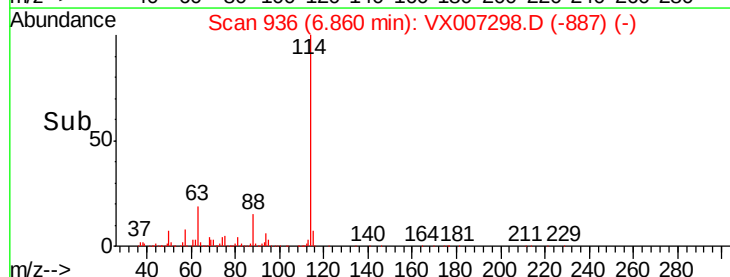
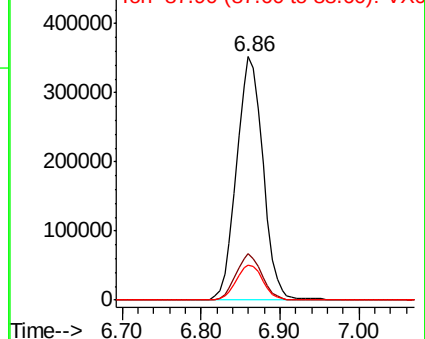
88 14.5 0.0 28.8

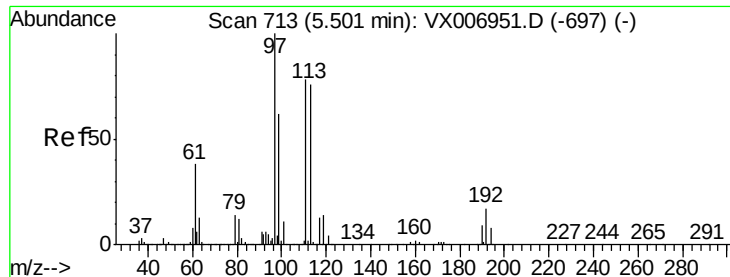


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.636 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007298.D

Acq: 29 Jan 2019 19:42

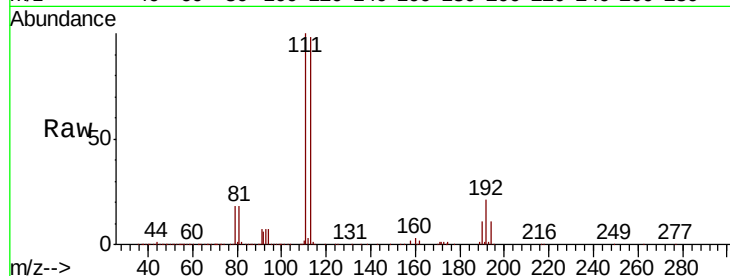
Tot Ion:113 Resp: 261998

Ion Ratio Lower Upper

113 100

111 101.1 81.6 122.4

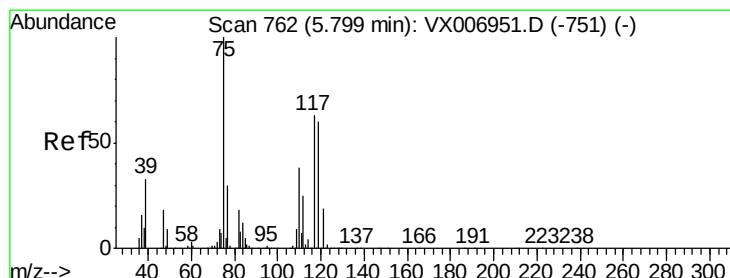
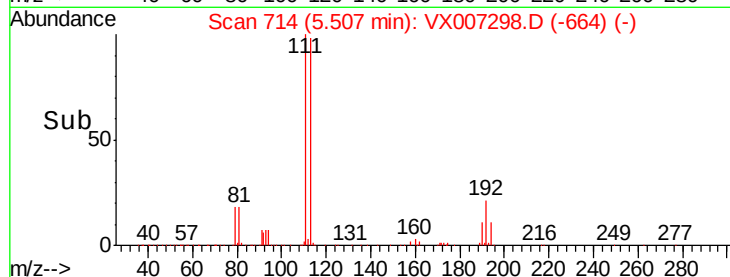
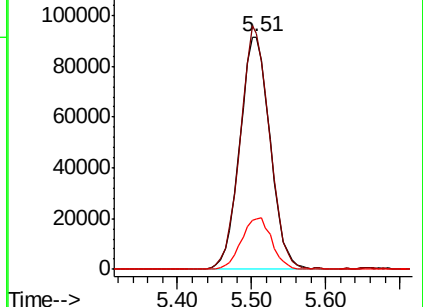
192 22.3 16.7 25.1



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: 4.631 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007298.D

Acq: 29 Jan 2019 19:42

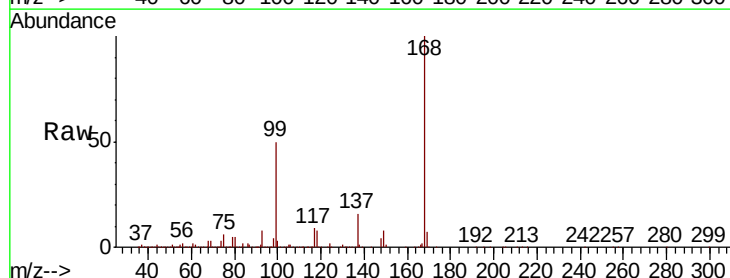
Tgt Ion: 75 Resp: 33188

Ion Ratio Lower Upper

75 100

110 9.7 20.2 60.5#

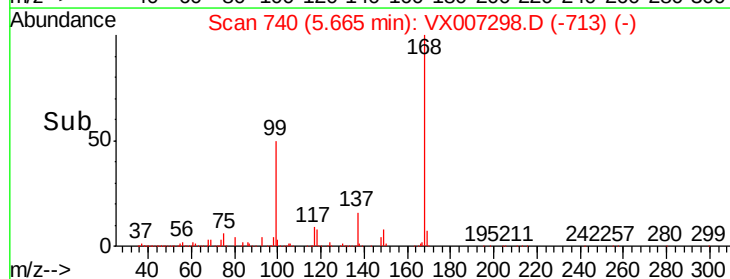
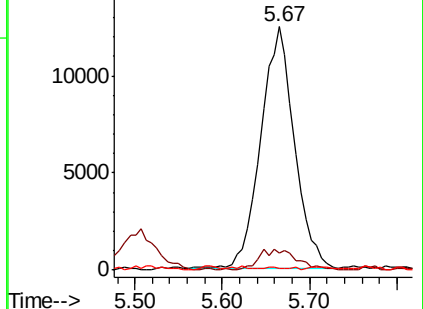
77 0.7 24.8 37.2#

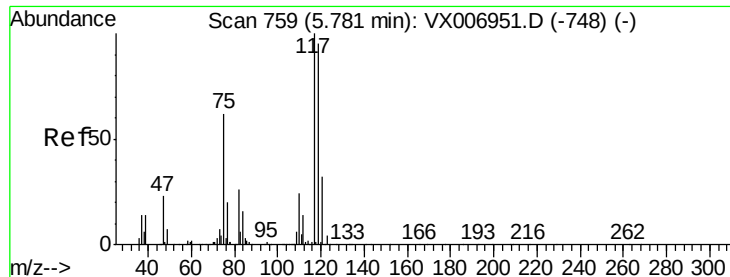


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.664 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007298.D

Acq: 29 Jan 2019 19:42

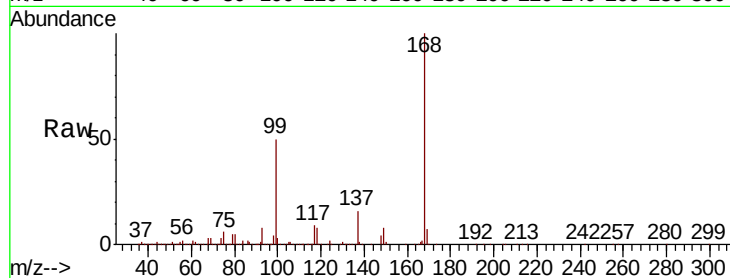
Tot Ion:117 Resp: 48045

Ion Ratio Lower Upper

117 100

119 4.4 79.4 119.2#

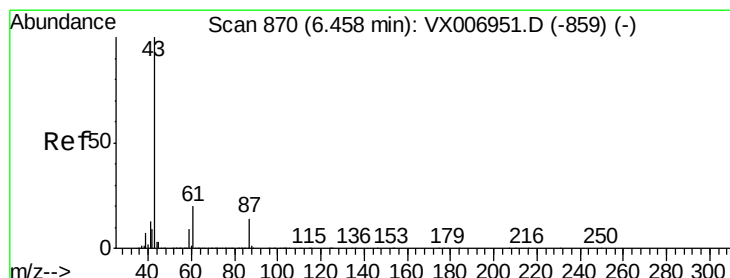
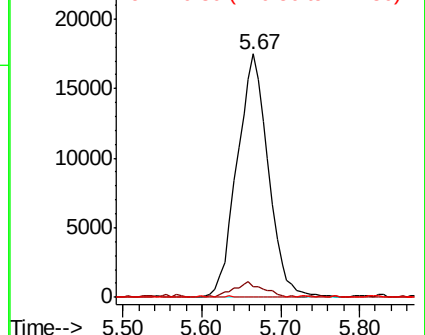
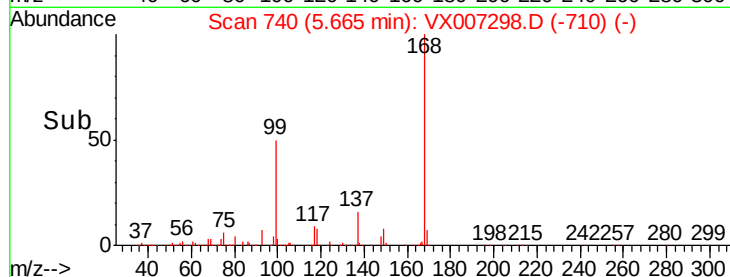
121 0.0 24.0 36.0#



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: 2.599 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX007298.D

Acq: 29 Jan 2019 19:42

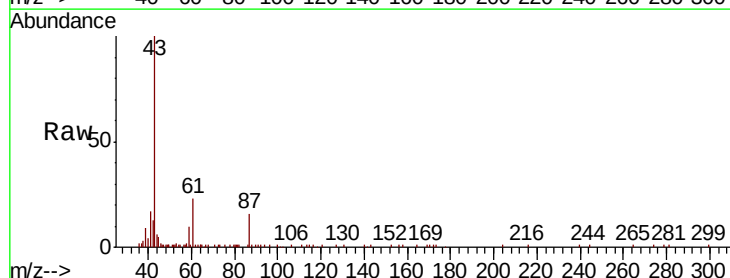
Tgt Ion: 43 Resp: 31496

Ion Ratio Lower Upper

43 100

61 20.6 16.8 25.2

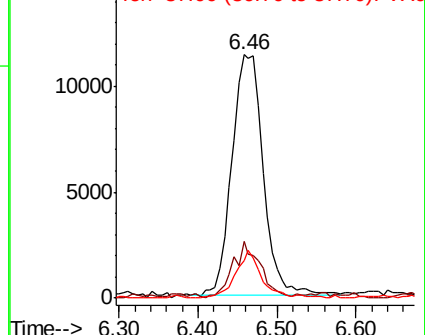
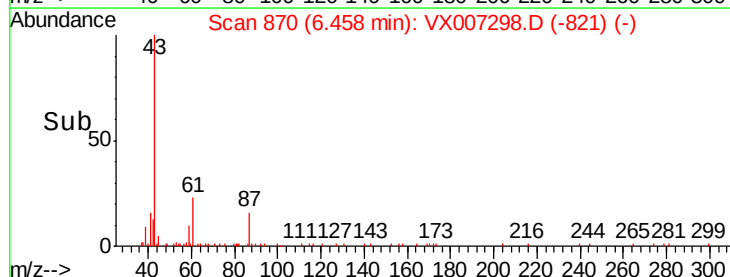
87 15.9 12.4 18.6

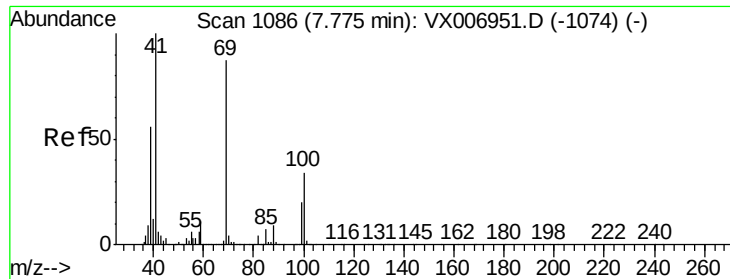


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

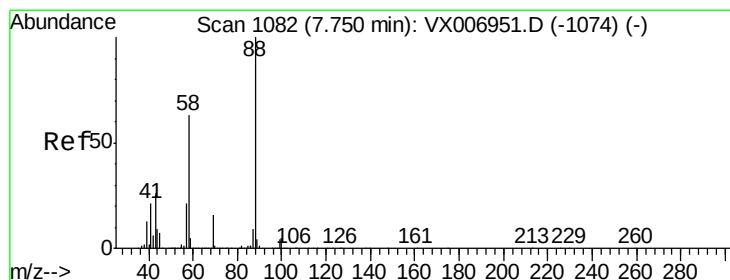
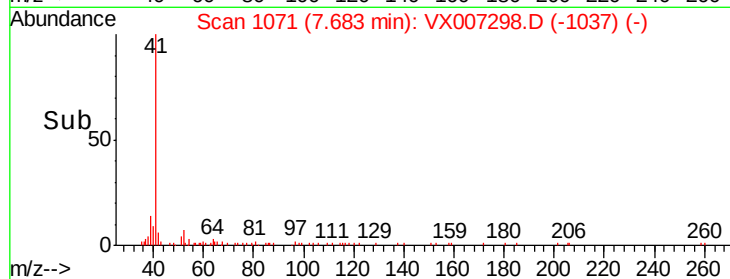
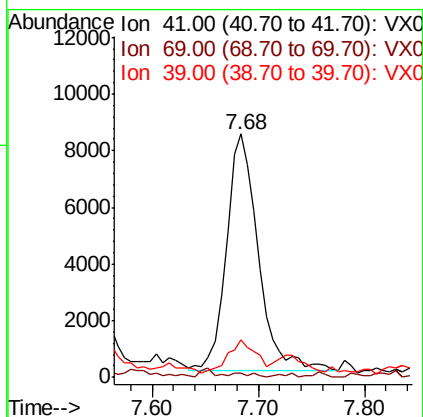
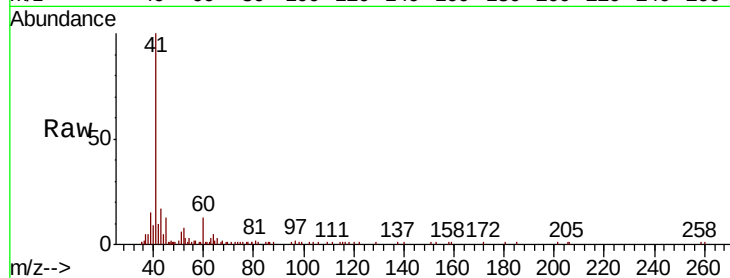
Ion 87.00 (86.70 to 87.70): VX0





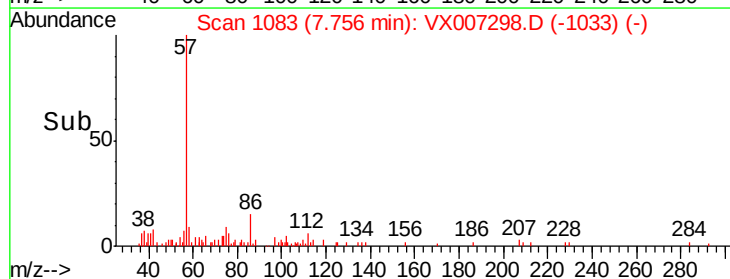
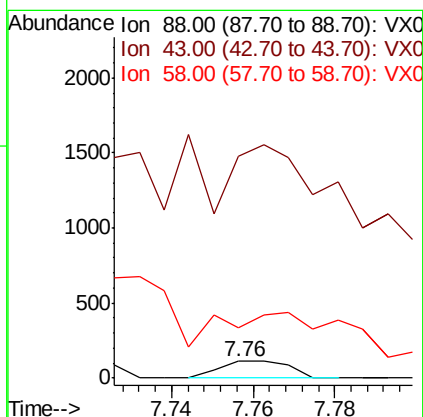
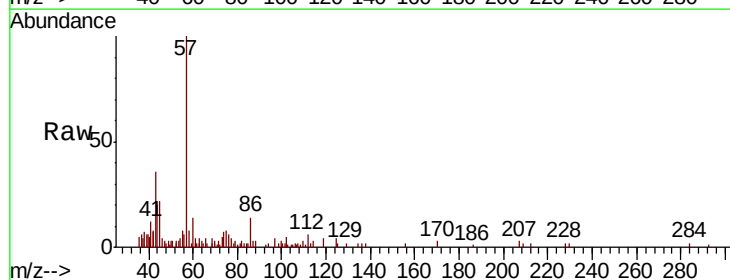
#48
Methvl methacrylate
Concen: 2.791 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX007298.D
Acq: 29 Jan 2019 19:42

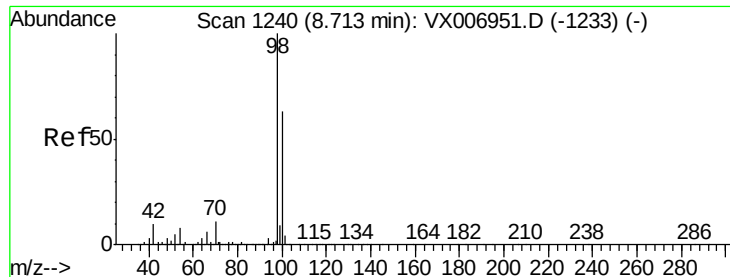
Tot Ion	Ratio	Lower	Upper
41	100		
69	1.2	72.4	108.6#
39	0.0	45.8	68.8#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX007298.D
Acq: 29 Jan 2019 19:42

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	22.2	33.4#
58	588.2	51.0	76.4#





#50

Toluene-d8

Concen: 52.605 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007298.D

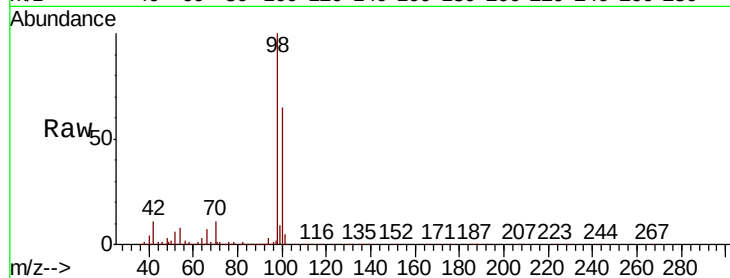
Acq: 29 Jan 2019 19:42

Tot Ion: 98 Resp: 1016346

Ion Ratio Lower Upper

98 100

100 64.3 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

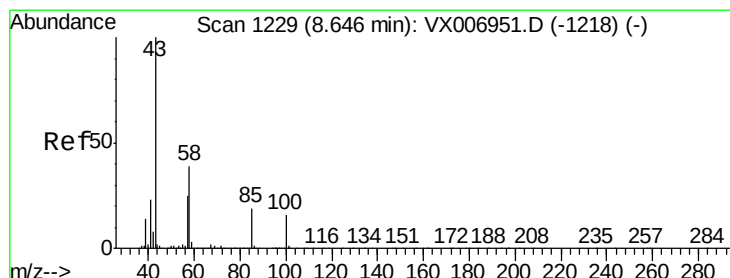
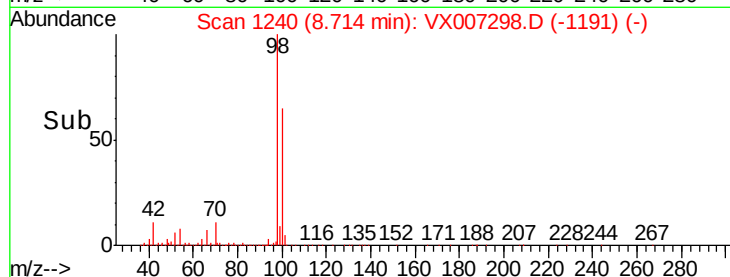
400000

200000

0

Time-->

8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 21.502 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007298.D

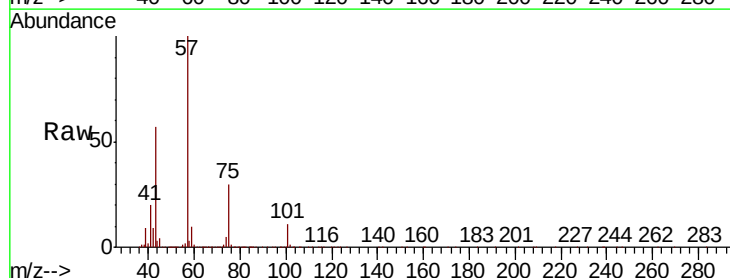
Acq: 29 Jan 2019 19:42

Tgt Ion: 43 Resp: 167460

Ion Ratio Lower Upper

43 100

58 8.3 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

120000

100000

80000

60000

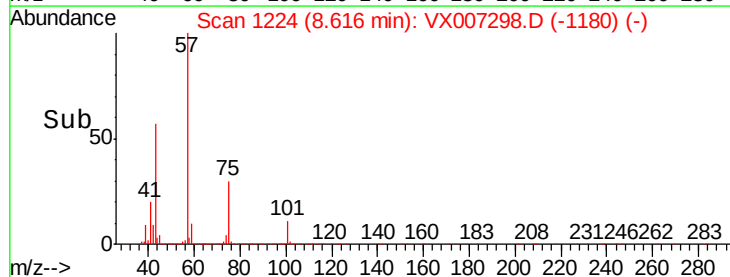
40000

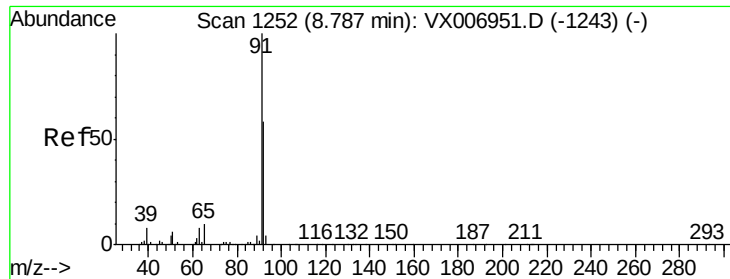
20000

0

Time-->

8.50 8.55 8.60 8.65 8.70





#52

Toluene

Concen: 0.286 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX007298.D

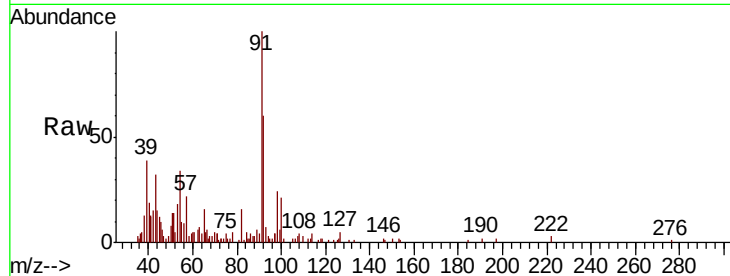
Acq: 29 Jan 2019 19:42

Tot Ion: 92 Resp: 4017

Ion Ratio Lower Upper

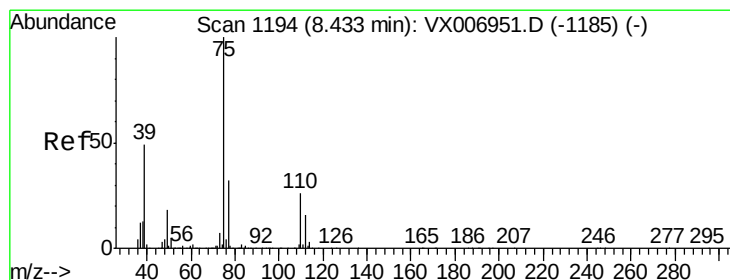
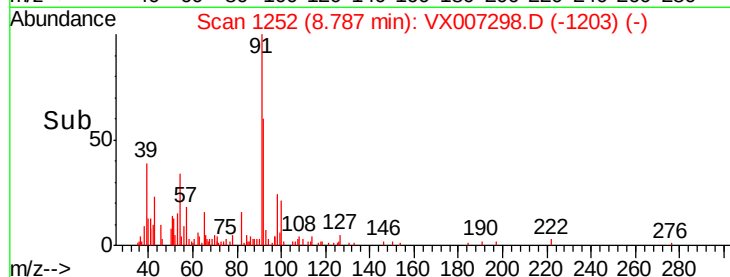
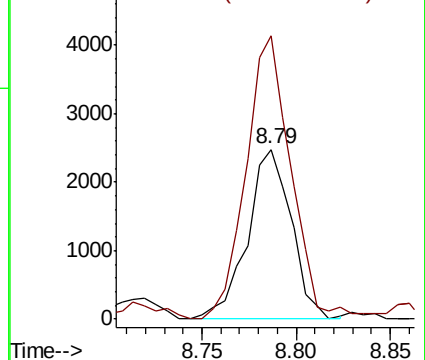
92 100

91 171.2 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 10.313 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007298.D

Acq: 29 Jan 2019 19:42

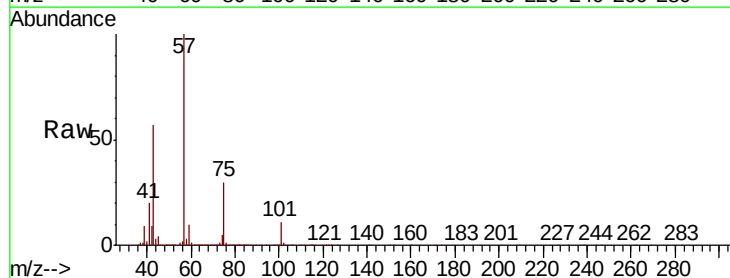
Tgt Ion: 75 Resp: 83047

Ion Ratio Lower Upper

75 100

77 0.3 26.2 39.2#

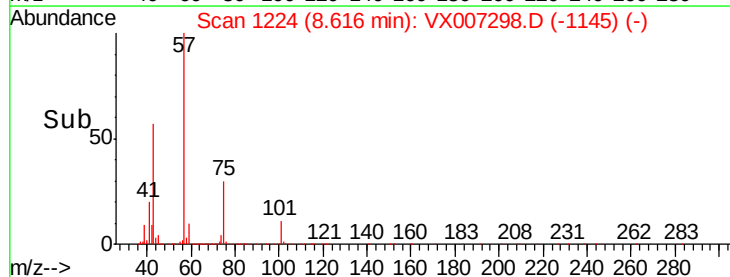
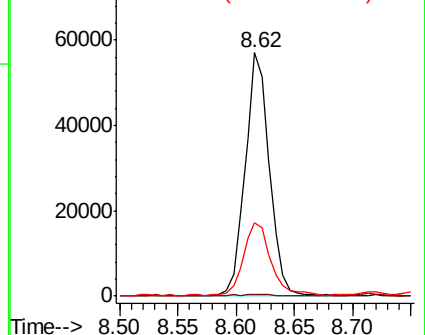
39 29.6 36.7 55.1#

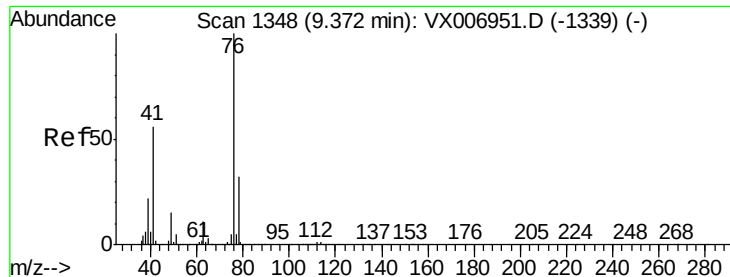


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 1.997 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007298.D

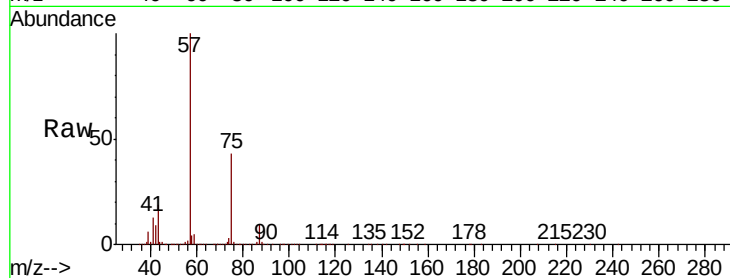
Acq: 29 Jan 2019 19:42

Tot Ion: 76 Resp: 18403

Ion Ratio Lower Upper

76 100

78 0.7 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

15000

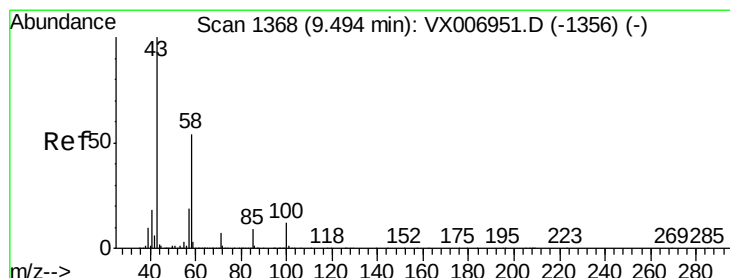
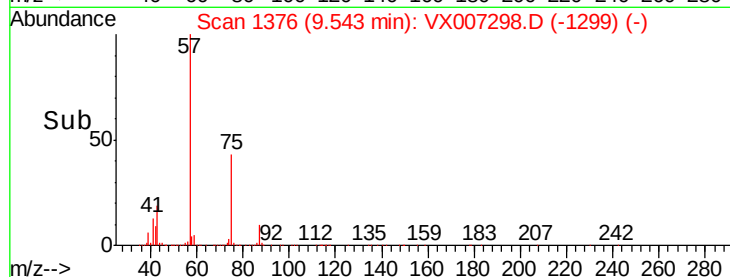
10000

5000

0

9.45 9.50 9.55 9.60

Time-->



#59

2-Hexanone

Concen: 39.536 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007298.D

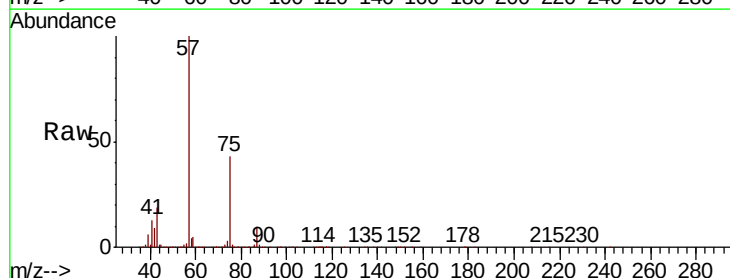
Acq: 29 Jan 2019 19:42

Tgt Ion: 43 Resp: 234641

Ion Ratio Lower Upper

43 100

58 19.8 27.7 83.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

200000

150000

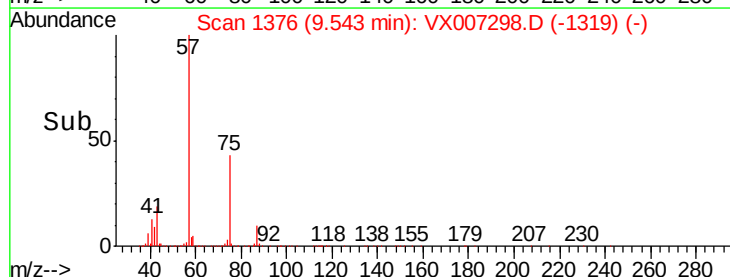
100000

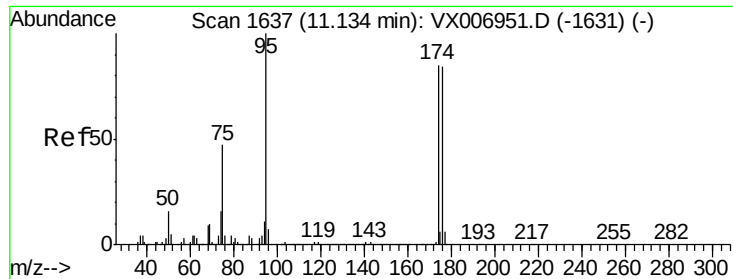
50000

0

9.45 9.50 9.55 9.60

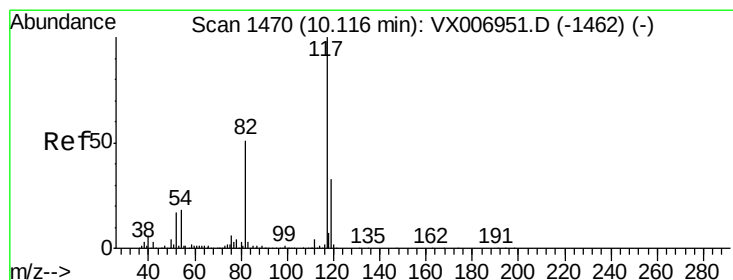
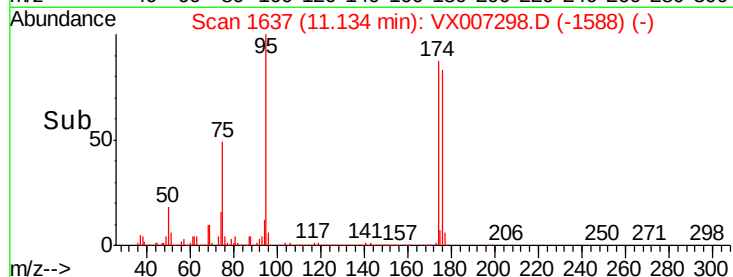
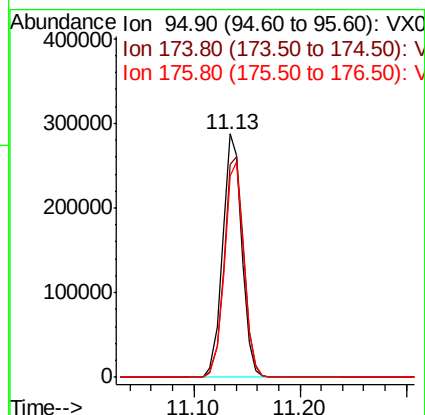
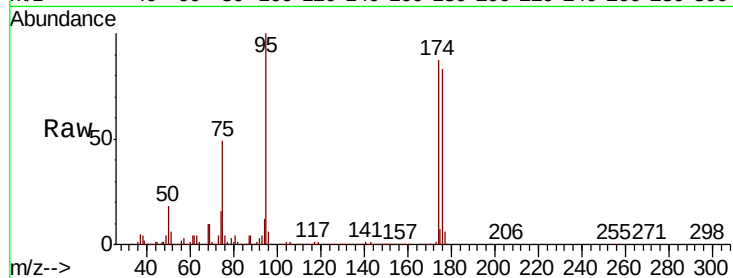
Time-->





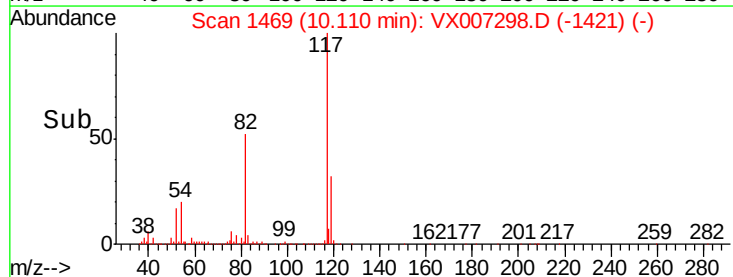
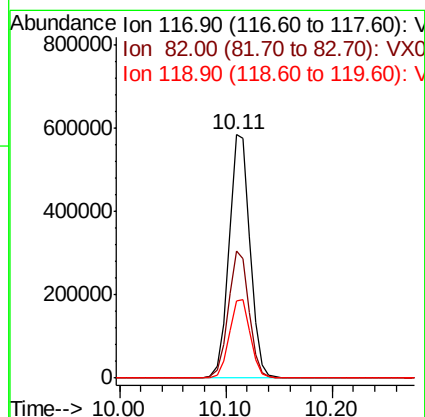
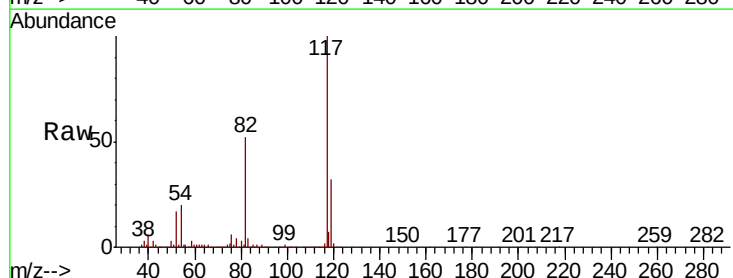
#62
4-Bromofluorobenzene
Concen: 53.752 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007298.D
Acq: 29 Jan 2019 19:42

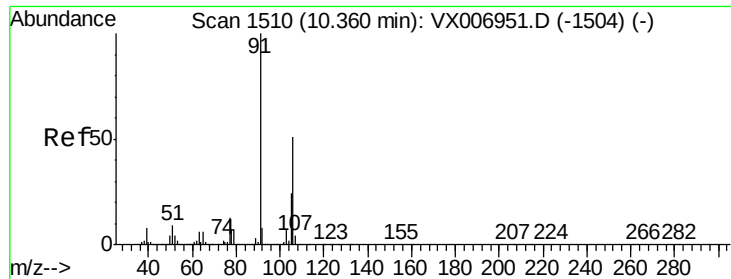
Tot Ion:	95	Resp:	362051
Ion	Ratio	Lower	Upper
95	100		
174	92.7	0.0	182.2
176	89.6	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX007298.D
Acq: 29 Jan 2019 19:42

Tgt Ion:	117	Resp:	805303
Ion	Ratio	Lower	Upper
117	100		
82	52.3	41.0	61.6
119	32.0	25.4	38.0





#68

m/p-Xvlenes

Concen: 0.263 ug/l

RT: 10.35 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VX007298.D

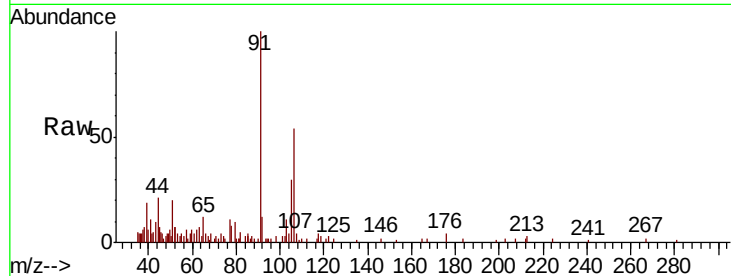
Acq: 29 Jan 2019 19:42

Tot Ion:106 Resp: 2999

Ion Ratio Lower Upper

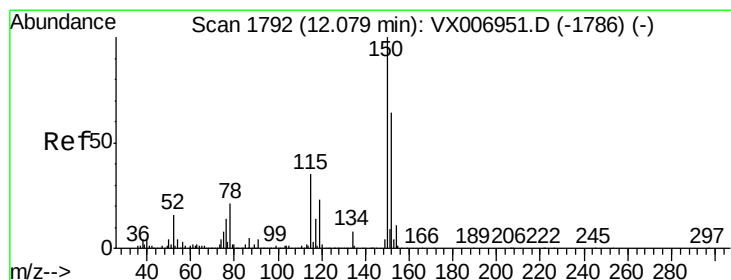
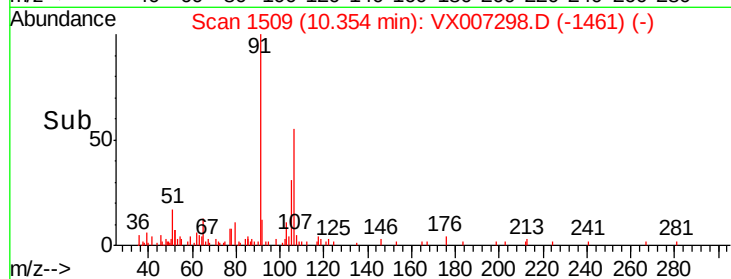
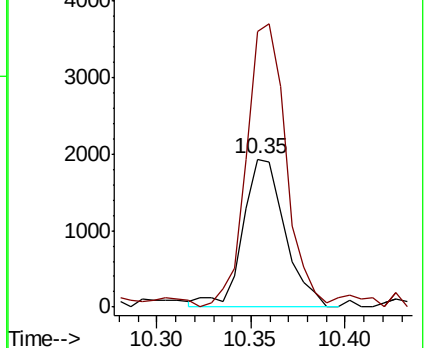
106 100

91 180.2 155.8 233.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007298.D

Acq: 29 Jan 2019 19:42

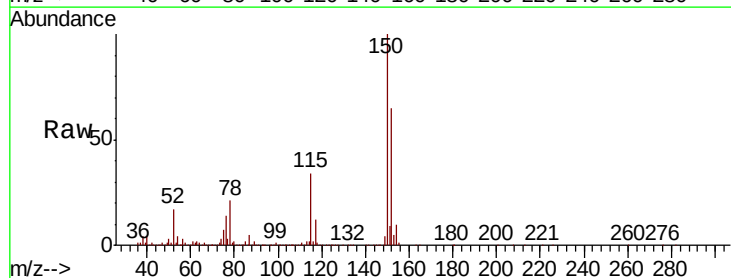
Tgt Ion:152 Resp: 388139

Ion Ratio Lower Upper

152 100

115 54.6 39.1 117.2

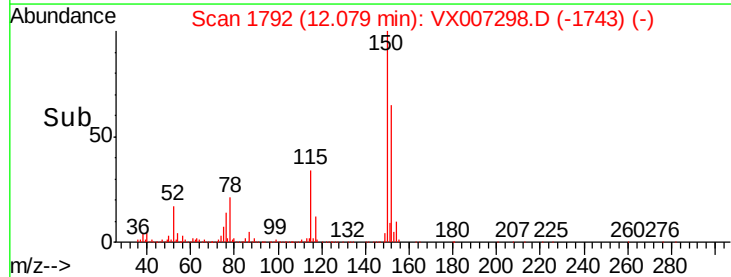
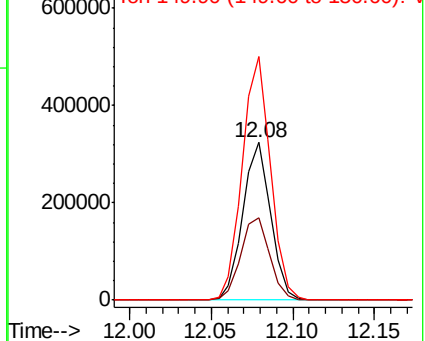
150 156.5 0.0 344.8

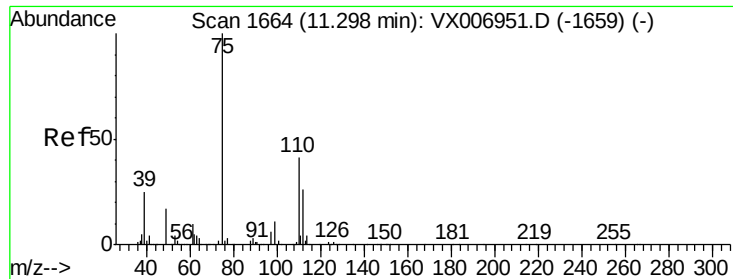


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

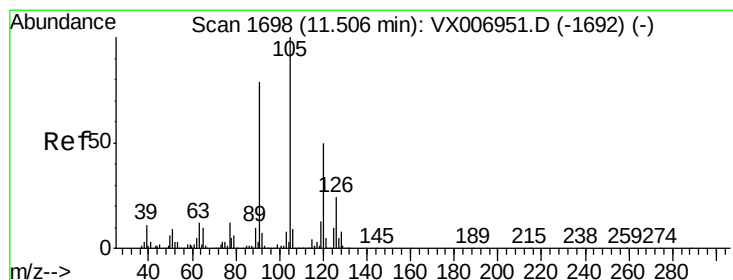
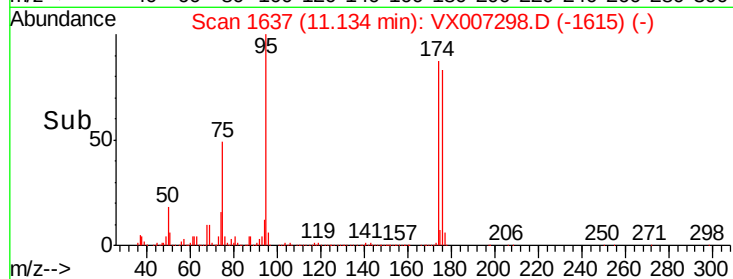
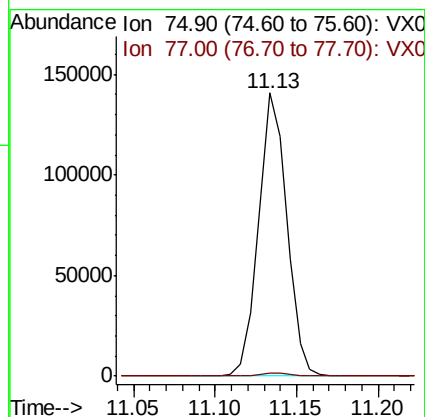
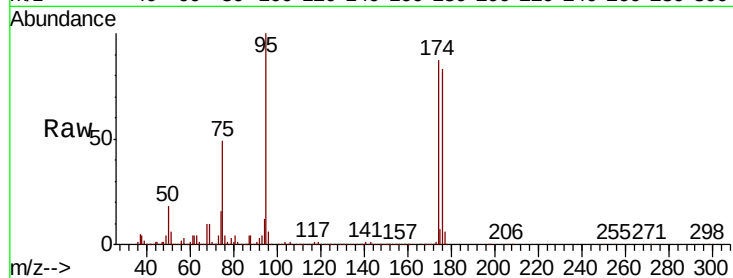
Ion 149.90 (149.60 to 150.60): V





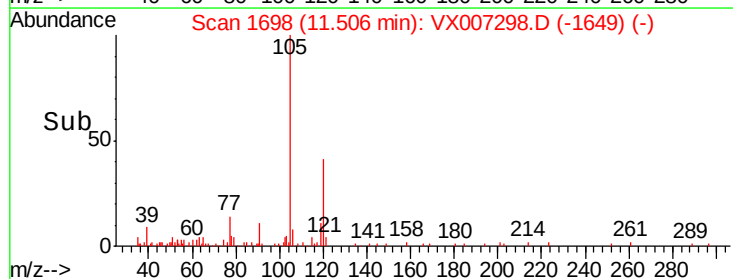
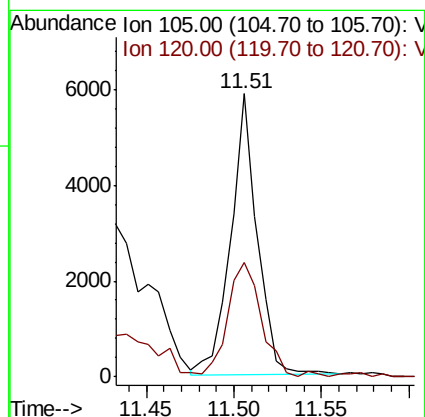
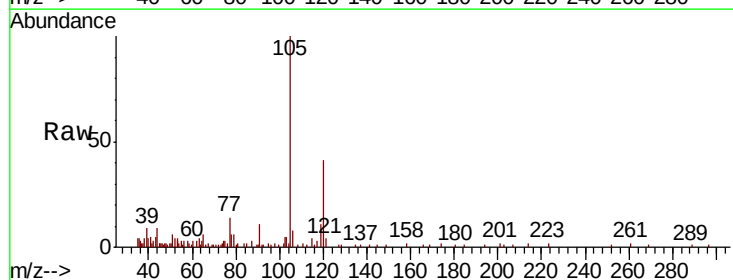
#76
 1,2,3-Trichloropropane
 Concen: 21.790 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007298.D
 Acq: 29 Jan 2019 19:42

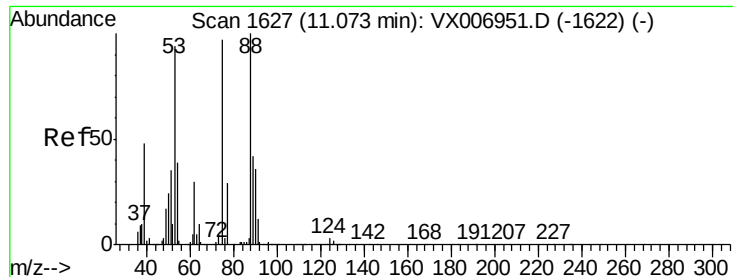
Tot Ion: 75 Resp: 171390
 Ion Ratio Lower Upper
 75 100
 77 1.2 18.5 55.5#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.273 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX007298.D
 Acq: 29 Jan 2019 19:42

Tgt Ion:105 Resp: 6232
 Ion Ratio Lower Upper
 105 100
 120 50.9 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 64.567 ug/l

RT: 11.13 min Scan# 1637

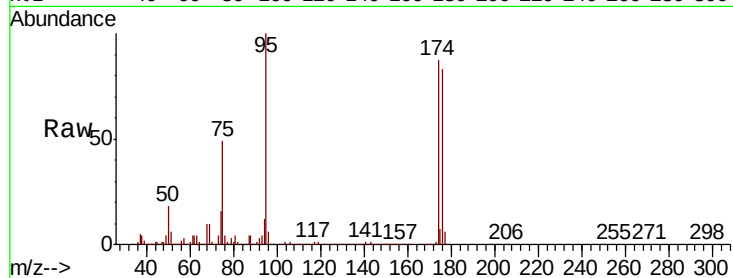
Delta R.T. 0.06 min

Lab File: VX007298.D

Acq: 29 Jan 2019 19:42

Tot Ion: 75 Resp: 171390

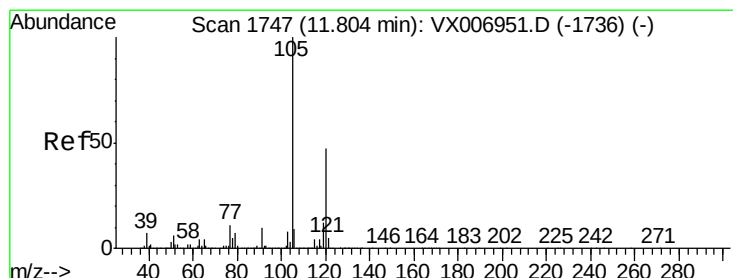
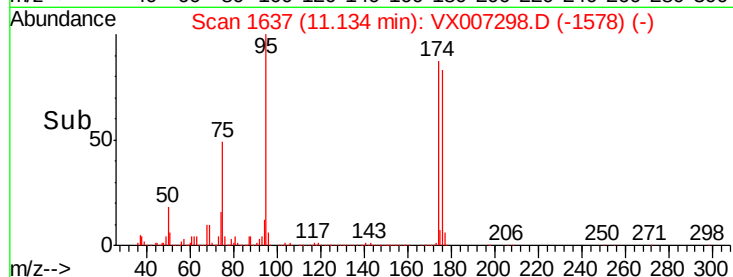
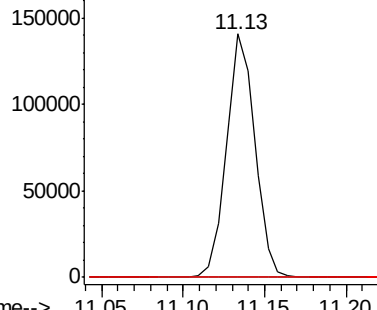
Ion	Ratio	Lower	Upper
75	100		
53	0.0	79.7	119.5#
89	0.1	38.0	57.0#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.350 ug/l

RT: 11.80 min Scan# 1747

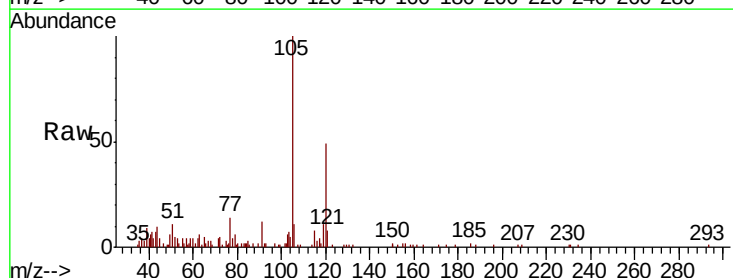
Delta R.T. 0.00 min

Lab File: VX007298.D

Acq: 29 Jan 2019 19:42

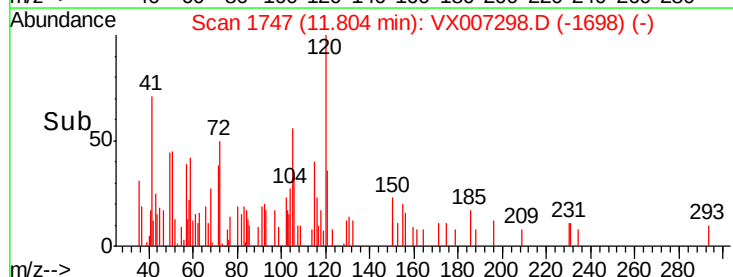
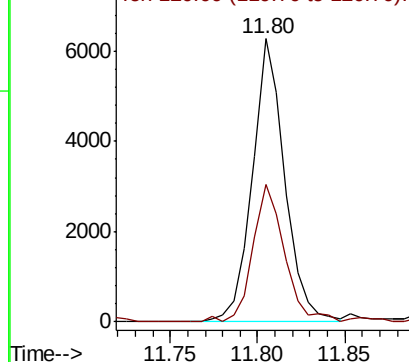
Tgt Ion: 105 Resp: 8058

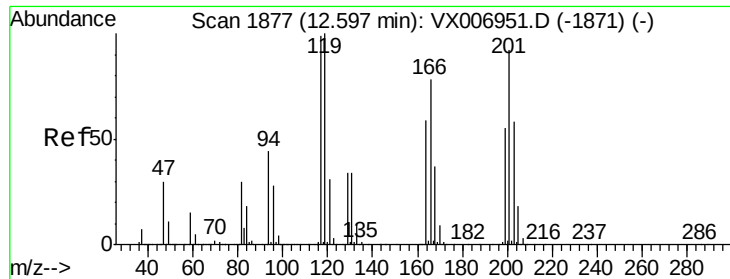
Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.2	69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 3.004 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX007298.D

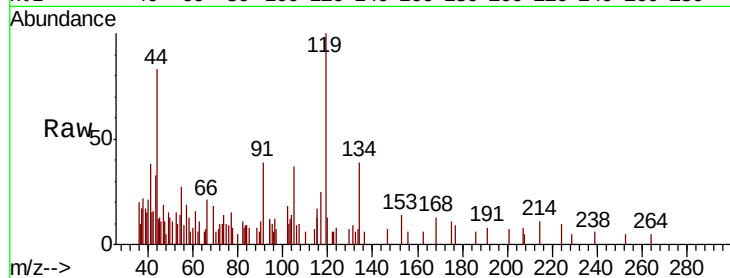
Acq: 29 Jan 2019 19:42

Tot Ion:117 Resp: 395

Ion Ratio Lower Upper

117 100

201 13.7 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

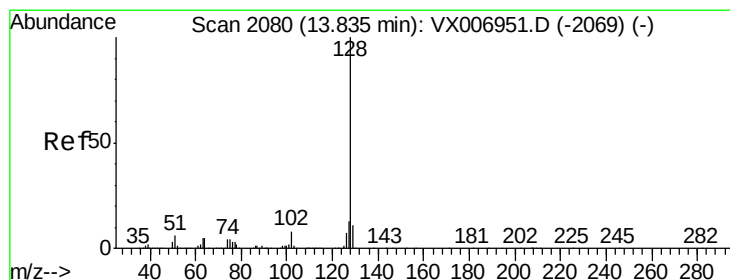
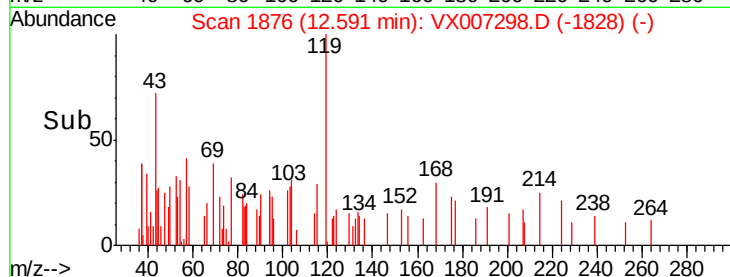
Ion 200.70 (200.40 to 201.40): V

12.59

12.58

12.60

Time-->



#95

Naphthalene

Concen: 1.472 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007298.D

Acq: 29 Jan 2019 19:42

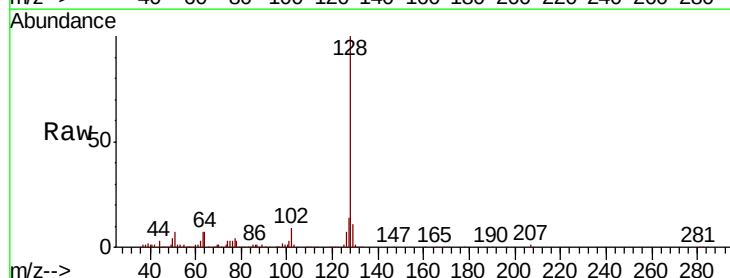
Tgt Ion:128 Resp: 41164

Ion Ratio Lower Upper

128 100

127 15.4 10.1 15.1#

129 11.6 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

13.83

13.80

13.85

13.90

Time-->

