

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012919\
 Data File : VX007291.D
 Acq On : 29 Jan 2019 16:35
 Operator : JC/SP
 Sample : PB116677ZHE#02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 30 00:45:14 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	528983	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	814892	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	792329	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	380305	50.00	ug/l	0.00

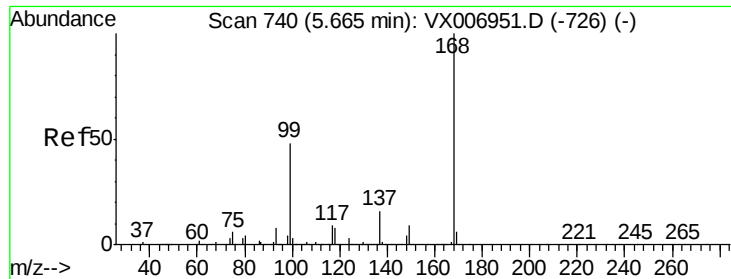
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	286225	51.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.54%	
35) Dibromofluoromethane	5.50	113	255282	48.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.84%	
50) Toluene-d8	8.71	98	1000395	52.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.74%	
62) 4-Bromofluorobenzene	11.13	95	360295	54.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.20%	

Target Compounds

					Qvalue
13) Acrolein	2.30	56	247	3.518 ug/l #	66
16) Acetone	2.45	43	28992	10.608 ug/l	97
18) Methyl Acetate	2.78	43	14814	1.872 ug/l	94
20) Methylene Chloride	2.86	84	12104	1.783 ug/l	96
25) 2-Butanone	4.70	43	6236	1.595 ug/l	99
29) Tetrahydrofuran	5.15	42	1284	0.505 ug/l #	65
36) 1,1-Dichloropropene	5.66	75	34640	4.889 ug/l #	50
38) Carbon Tetrachloride	5.67	117	46895	6.579 ug/l #	15
43) Isopropyl Acetate	6.46	43	27976	2.335 ug/l	98
48) Methyl methacrylate	7.68	41	13590	2.209 ug/l #	13
49) 1,4-Dioxane	7.76	88	117	Below Cal #	27
51) 4-Methyl-2-Pentanone	8.62	43	145361	18.879 ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	71728	9.009 ug/l #	66
57) 1,3-Dichloropropane	9.54	76	16929	1.858 ug/l #	44
59) 2-Hexanone	9.54	43	224640	38.285 ug/l #	52
74) N-amyl acetate	10.69	43	23335	2.161 ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	168621	21.880 ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	4842	0.216 ug/l	90
81) trans-1,4-Dichloro-2-buten	11.13	75	168621	64.817 ug/l #	10
88) 1,4-Dichlorobenzene	12.08	146	939	0.219 ug/l #	1
90) Hexachloroethane	12.73	117	26	2.915 ug/l	95

(#) = 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: VX007291.D

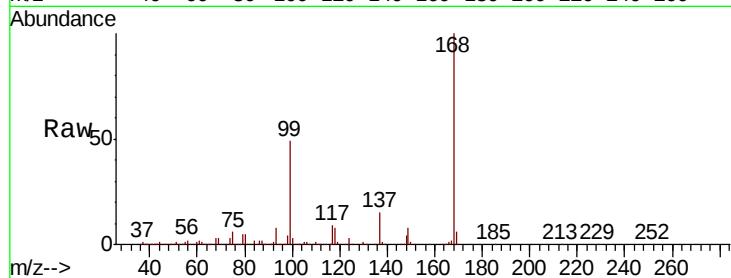
Acq: 29 Jan 2019 16:35

Tot Ion:168 Resp: 528983

Ion Ratio Lower Upper

168 100

99 49.3 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

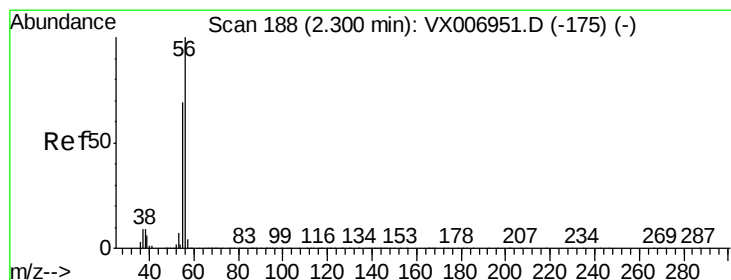
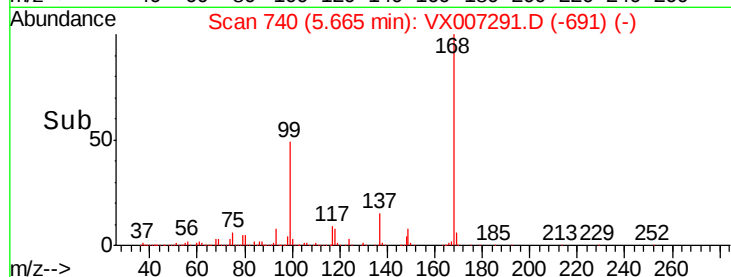
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#13

Acrolein

Concen: 3.518 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.00 min

Lab File: VX007291.D

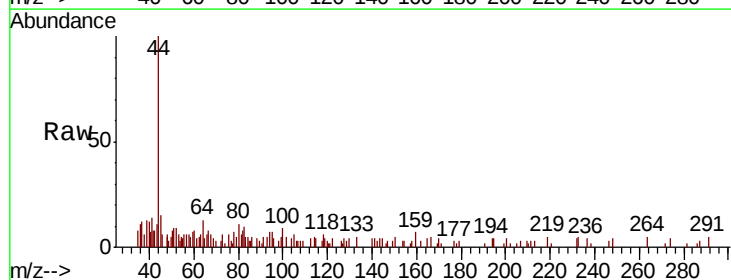
Acq: 29 Jan 2019 16:35

Tgt Ion: 56 Resp: 247

Ion Ratio Lower Upper

56 100

55 44.1 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.30

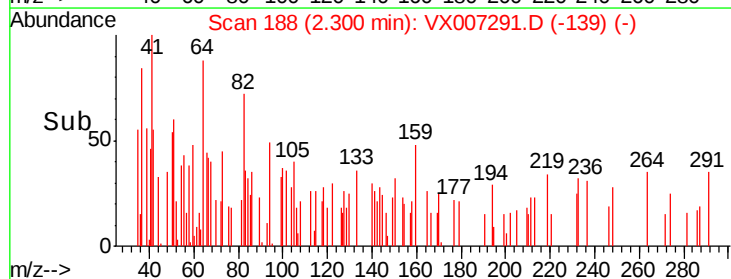
300

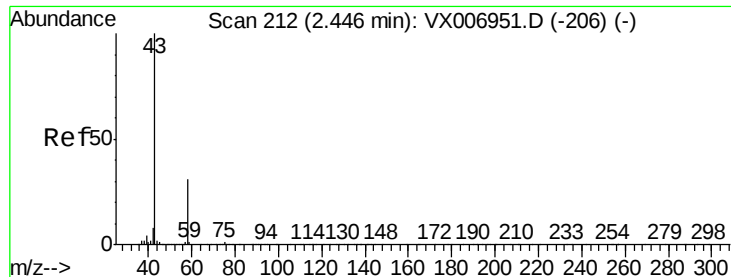
200

100

0

Time--> 2.28 2.30 2.32





#16

Acetone

Concen: 10.608 ug/l

RT: 2.45 min Scan# 212

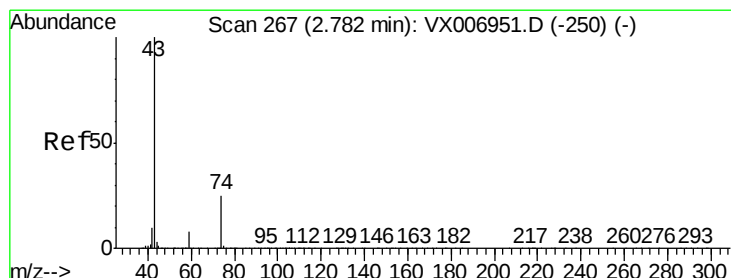
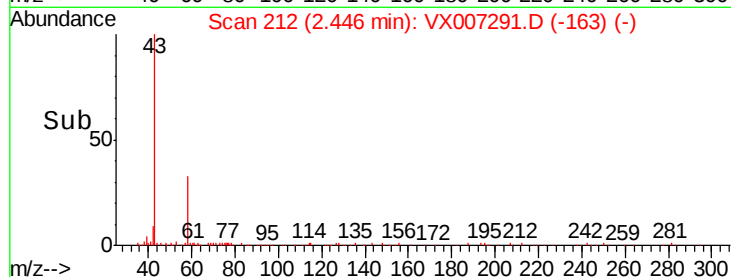
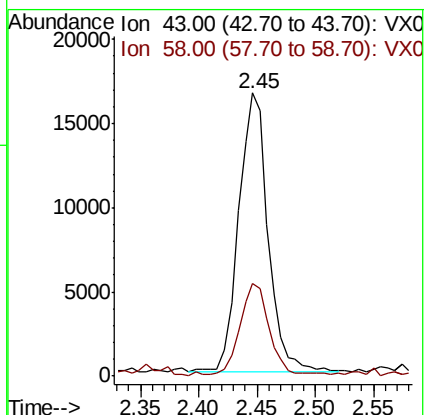
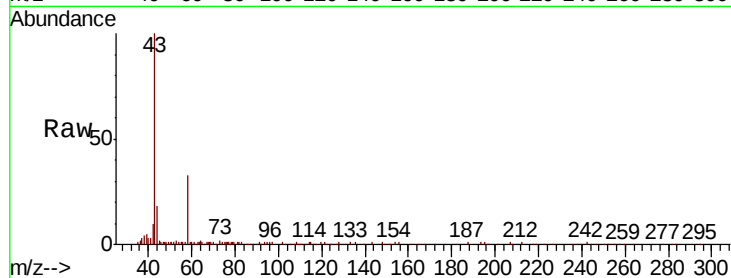
Delta R.T. 0.00 min

Lab File: VX007291.D

Acq: 29 Jan 2019 16:35

Tot Ion: 43 Resp: 28992

Ion	Ratio	Lower	Upper
43	100		
58	32.8	25.0	37.6



#18

Methyl Acetate

Concen: 1.872 ug/l

RT: 2.78 min Scan# 267

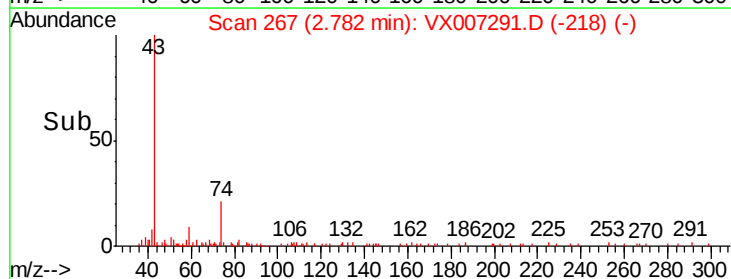
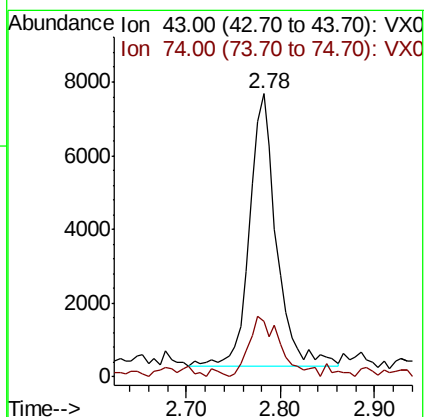
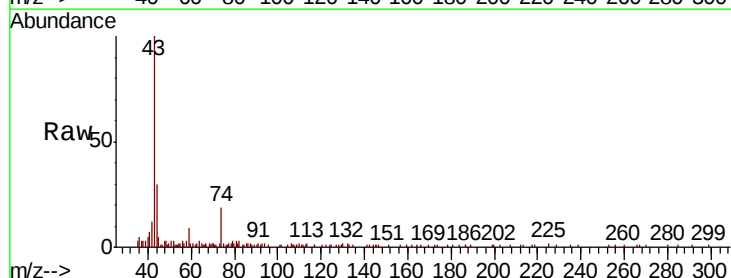
Delta R.T. 0.00 min

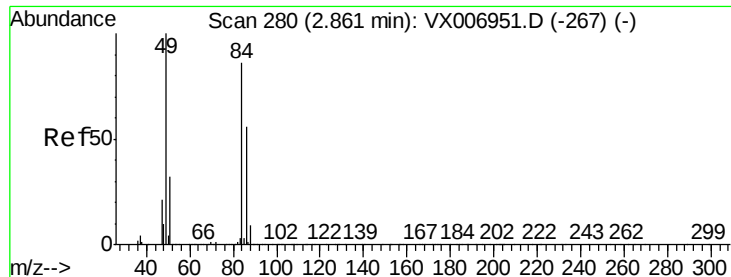
Lab File: VX007291.D

Acq: 29 Jan 2019 16:35

Tgt Ion: 43 Resp: 14814

Ion	Ratio	Lower	Upper
43	100		
74	26.1	18.6	28.0





#20

Methvlene Chloride

Concen: 1.783 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX007291.D

Acq: 29 Jan 2019 16:35

Tot Ion: 84 Resp: 12104

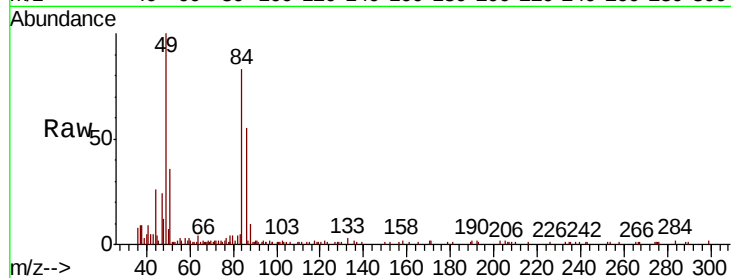
Ion	Ratio	Lower	Upper
84	100		
49	119.1	91.8	137.6
51	41.2	28.5	42.7
86	64.6	50.2	75.2

84 100

49 119.1 91.8 137.6

51 41.2 28.5 42.7

86 64.6 50.2 75.2



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

Time-->

2.86

Time-->

Time-->

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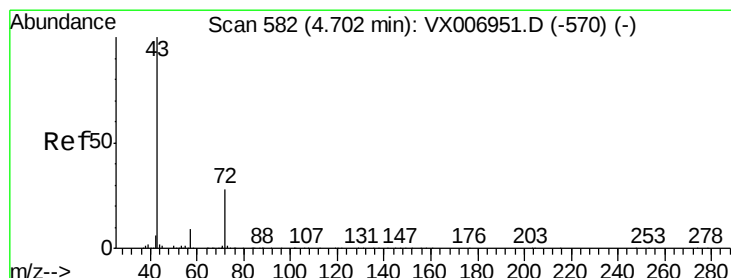
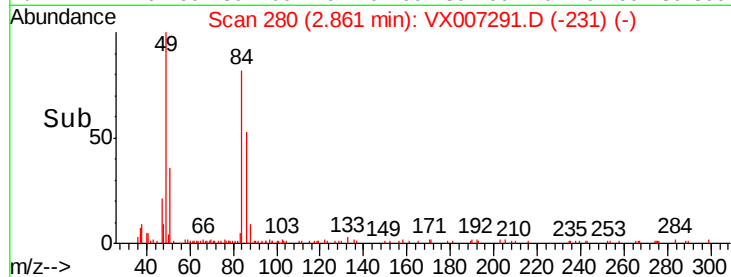
Time-->

Time-->

Time-->

Time-->

Time-->



#25

2-Butanone

Concen: 1.595 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX007291.D

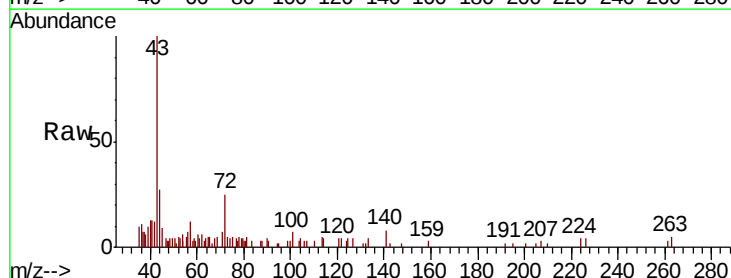
Acq: 29 Jan 2019 16:35

Tgt Ion: 43 Resp: 6236

Ion	Ratio	Lower	Upper
43	100		
72	27.3	22.4	33.6

43 100

72 27.3 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Time-->

4.70

Time-->

Time-->

Time-->

Time-->

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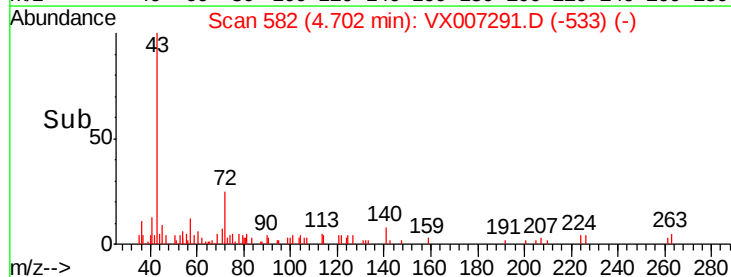
Time-->

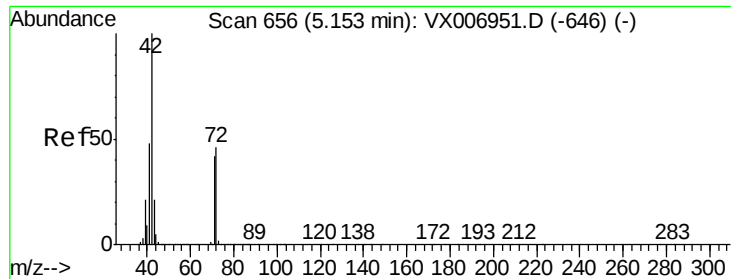
Time-->

Time-->

Time-->

Time-->





#29

Tetrahydrofuran

Concen: 0.505 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.00 min

Lab File: VX007291.D

Acq: 29 Jan 2019 16:35

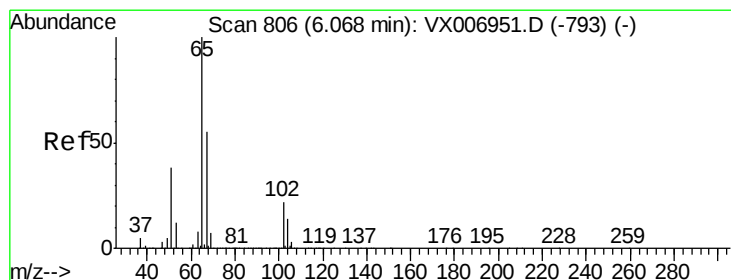
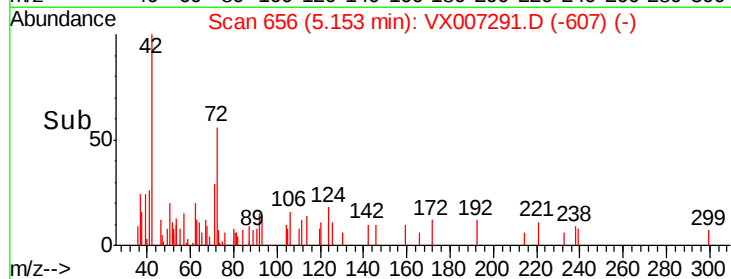
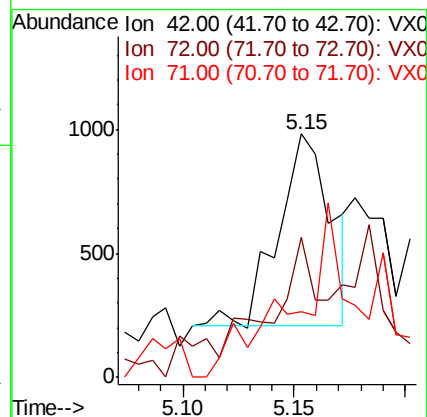
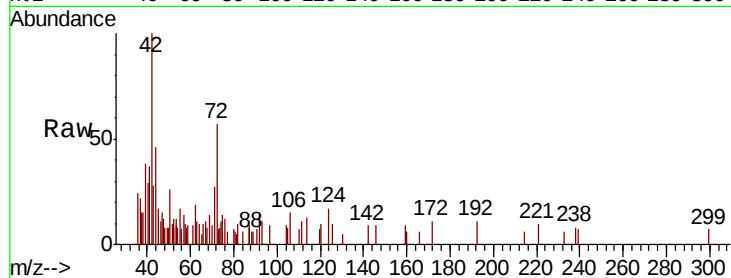
Tot Ion: 42 Resp: 1284

Ion Ratio Lower Upper

42 100

72 83.8 38.9 58.3#

71 34.0 36.2 54.4#



#33

1,2-Dichloroethane-d4

Concen: 51.774 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007291.D

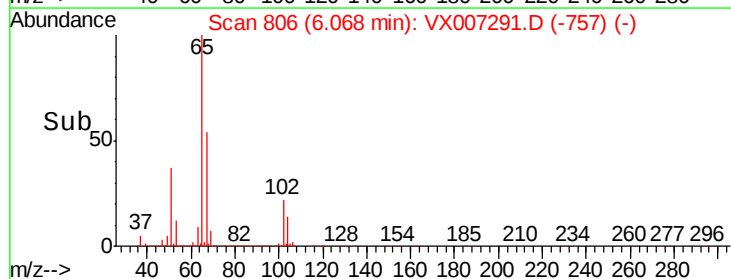
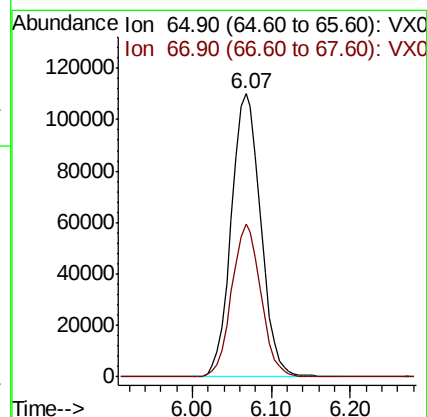
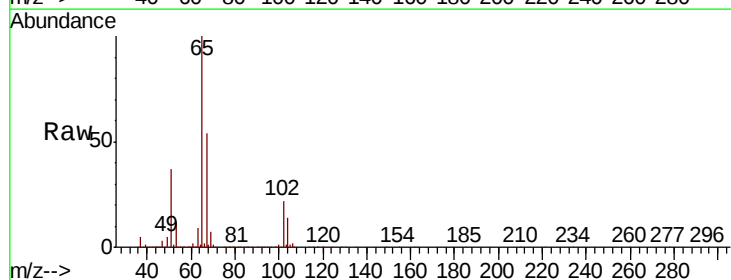
Acq: 29 Jan 2019 16:35

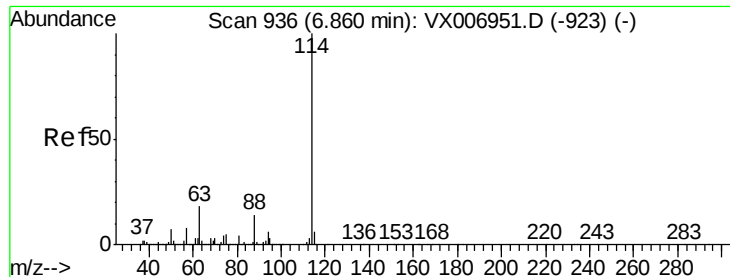
Tgt Ion: 65 Resp: 286225

Ion Ratio Lower Upper

65 100

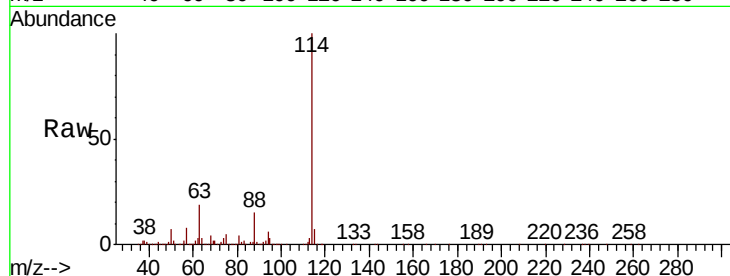
67 53.4 0.0 105.0



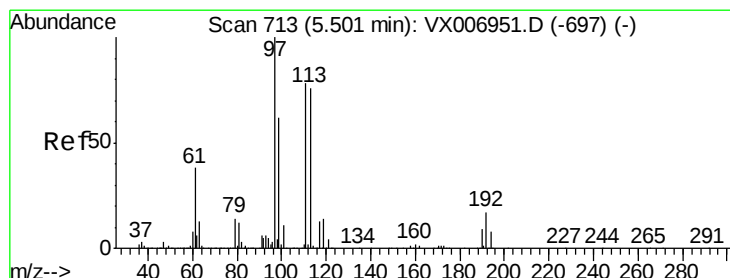
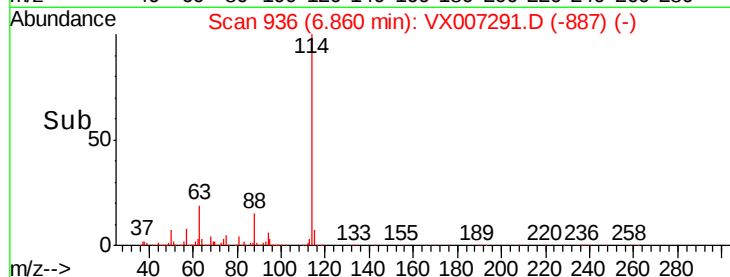
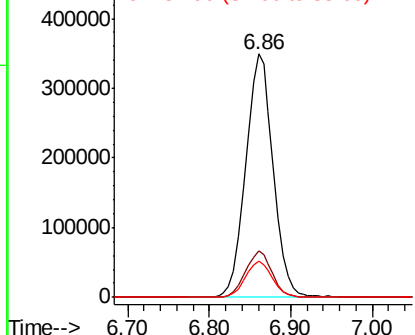


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX007291.D
Acq: 29 Jan 2019 16:35

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	34.8
88	14.8	0.0	28.8

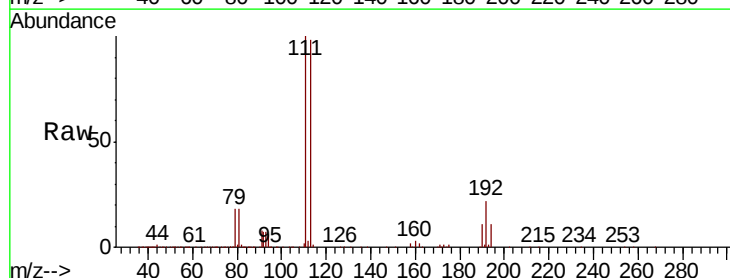


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

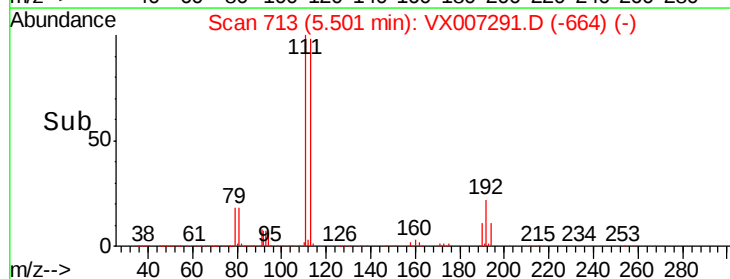
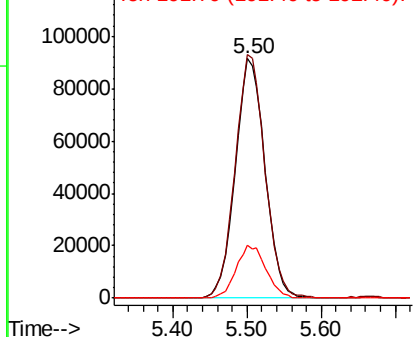


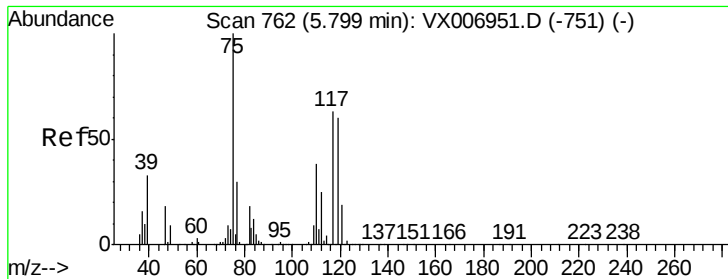
#35
Dibromofluoromethane
Concen: 48.918 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX007291.D
Acq: 29 Jan 2019 16:35

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	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: 4.889 ug/l

RT: 5.66 min Scan# 739

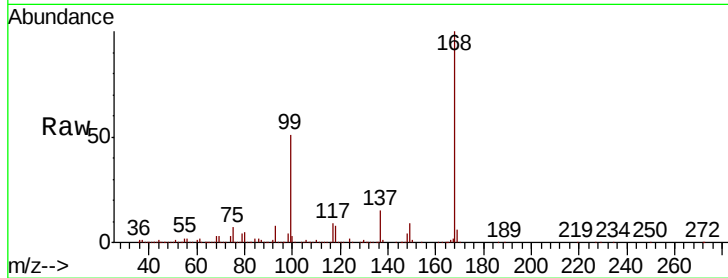
Delta R.T. -0.14 min

Lab File: VX007291.D

Acq: 29 Jan 2019 16:35

Tot Ion: 75 Resp: 34640

Ion	Ratio	Lower	Upper
75	100		
110	11.5	20.2	60.5#
77	0.5	24.8	37.2#

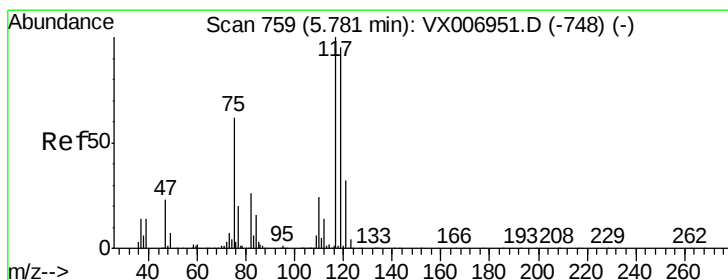
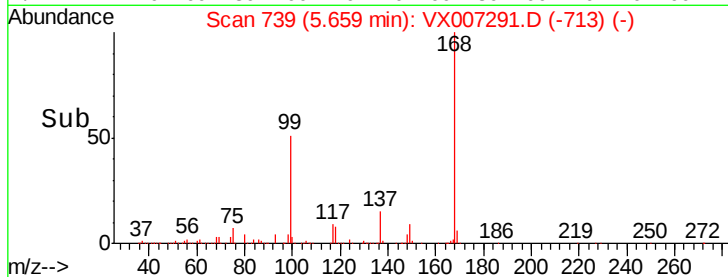
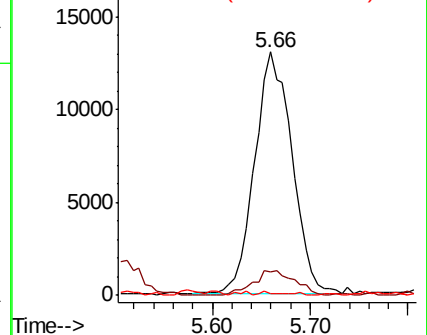


Abundance

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: 6.579 ug/l

RT: 5.67 min Scan# 740

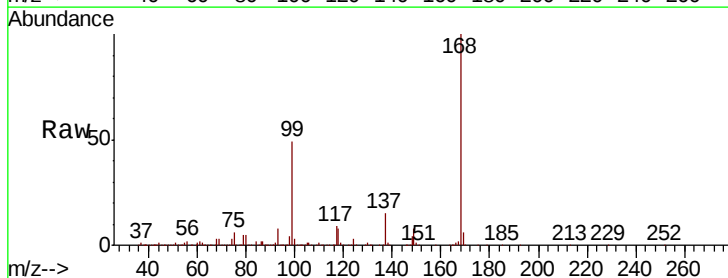
Delta R.T. -0.12 min

Lab File: VX007291.D

Acq: 29 Jan 2019 16:35

Tgt Ion: 117 Resp: 46895

Ion	Ratio	Lower	Upper
117	100		
119	6.3	79.4	119.2#
121	0.0	24.0	36.0#

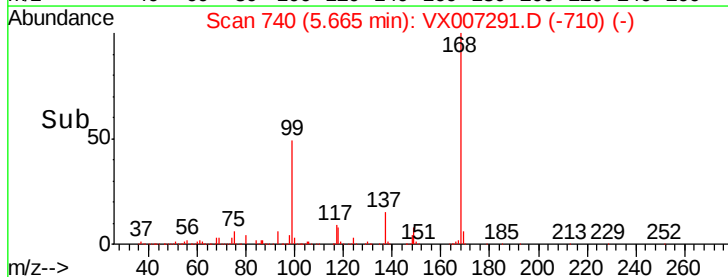
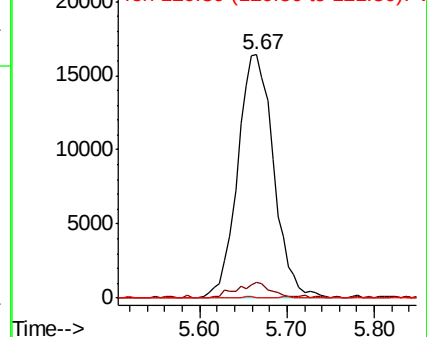


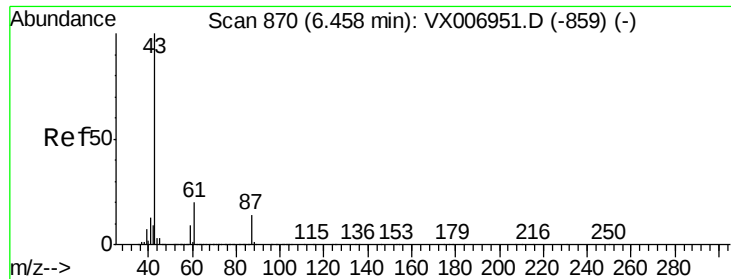
Abundance

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: 2.335 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007291.D

Acq: 29 Jan 2019 16:35

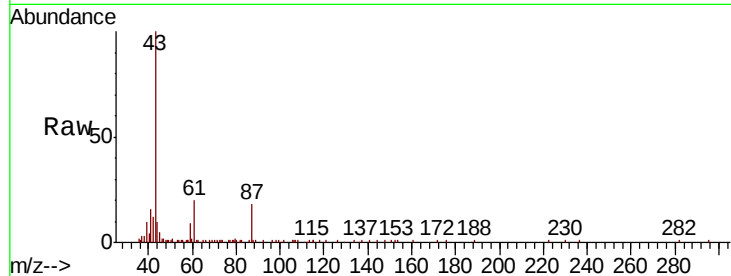
Tot Ion: 43 Resp: 27976

Ion Ratio Lower Upper

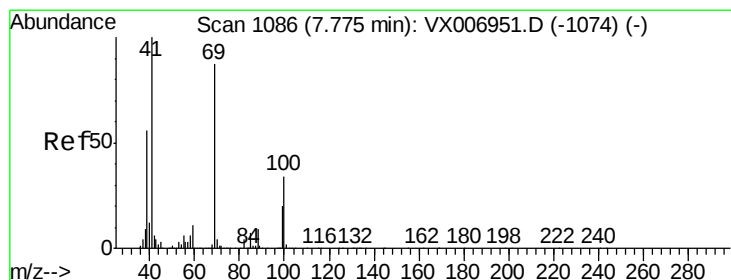
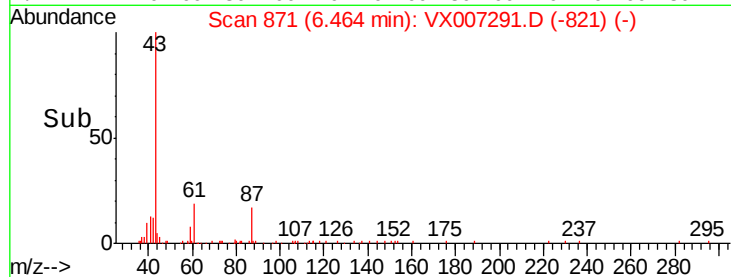
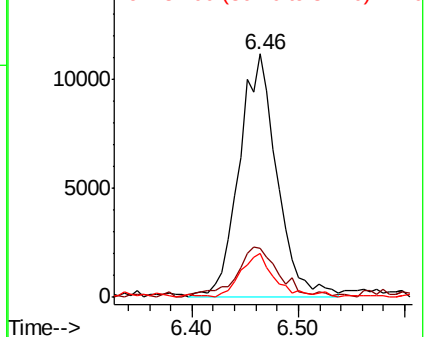
43 100

61 22.7 16.8 25.2

87 15.8 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

Methyl methacrylate

Concen: 2.209 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007291.D

Acq: 29 Jan 2019 16:35

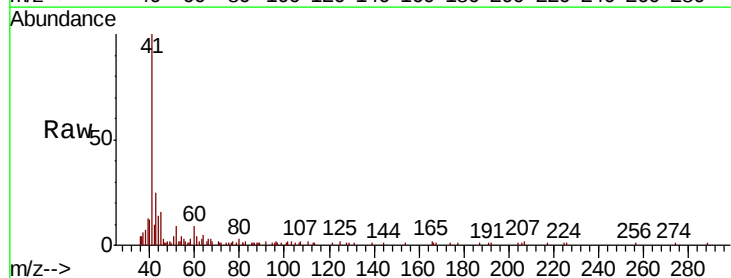
Tgt Ion: 41 Resp: 13590

Ion Ratio Lower Upper

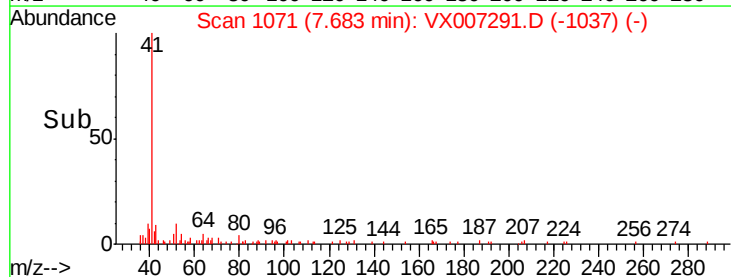
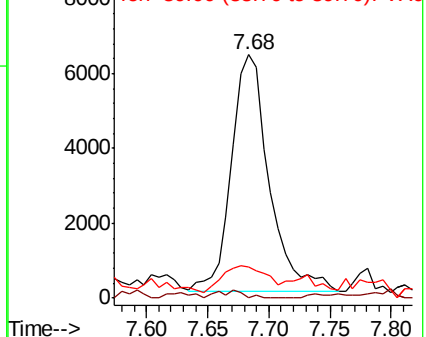
41 100

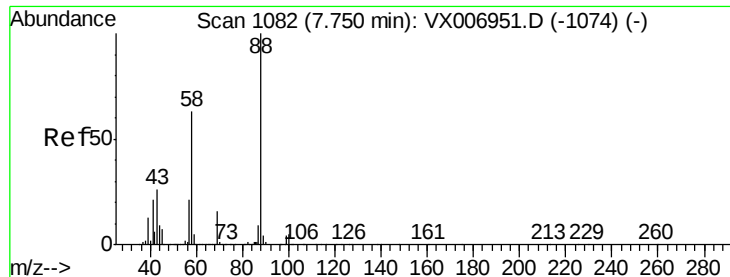
69 2.2 72.4 108.6#

39 0.0 45.8 68.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: Below Cal

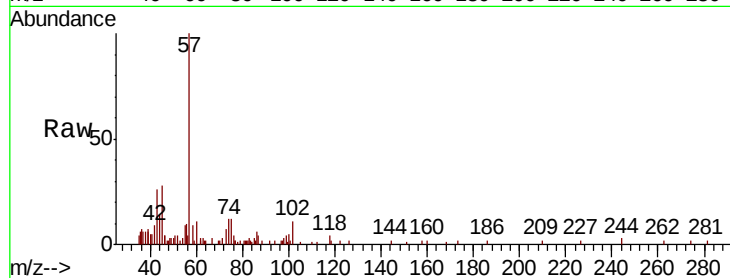
RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007291.D

Acq: 29 Jan 2019 16:35

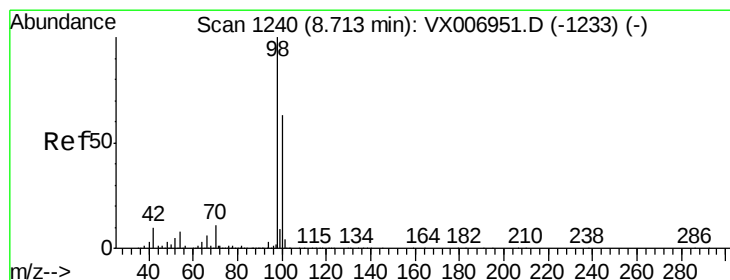
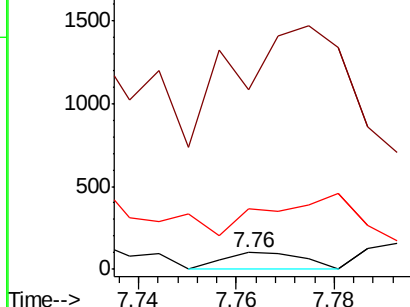
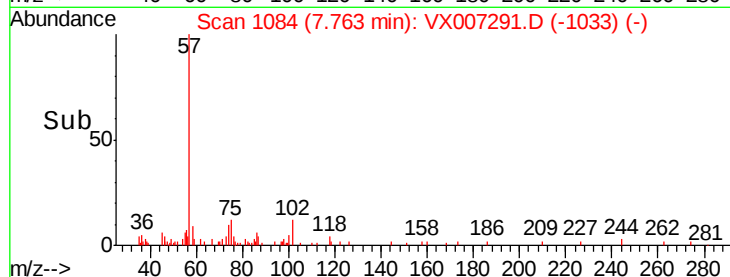
Tot Ion:	88	Resp:	117
Ion	Ratio	Lower	Upper
88	100		
43	0.0	22.2	33.4#
58	0.0	51.0	76.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 52.373 ug/l

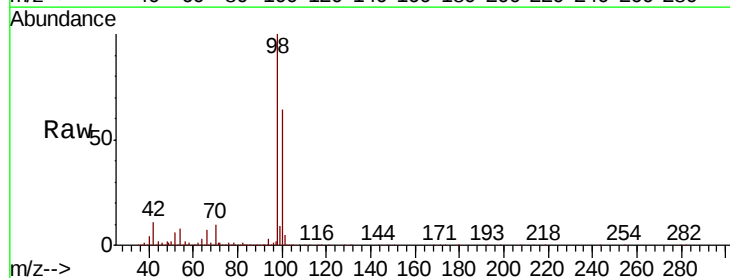
RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007291.D

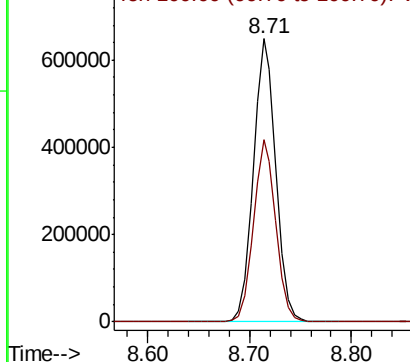
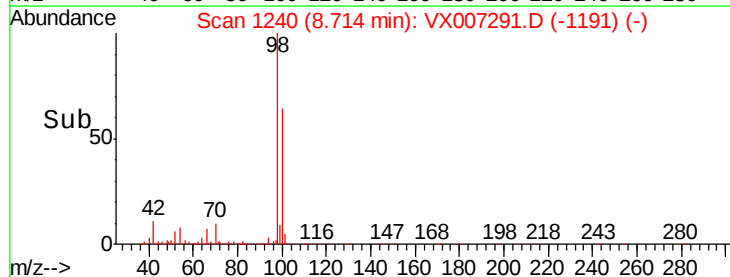
Acq: 29 Jan 2019 16:35

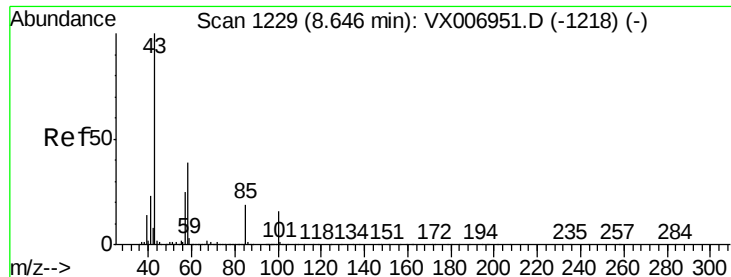
Tgt Ion:	98	Resp:	1000395
Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.0	78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 18.879 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007291.D

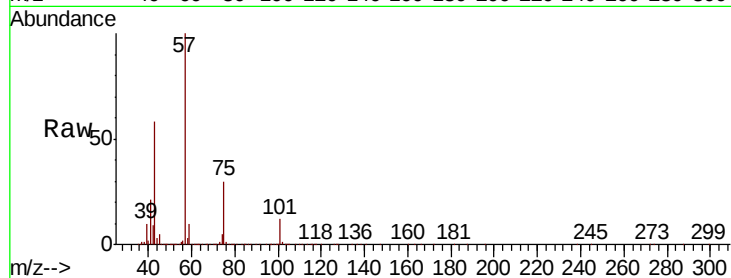
Acq: 29 Jan 2019 16:35

Tot Ion: 43 Resp: 145361

Ion Ratio Lower Upper

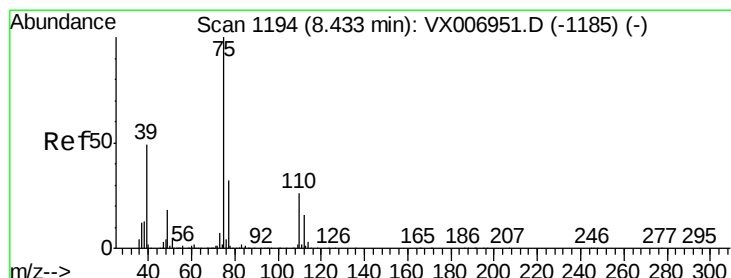
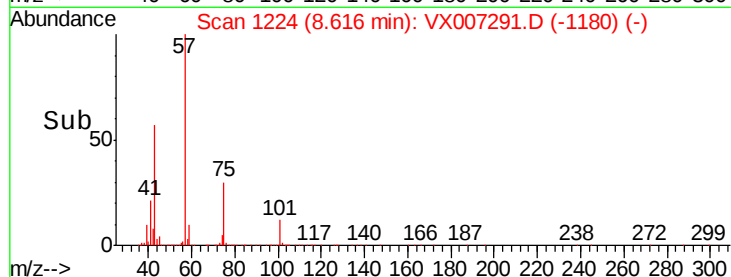
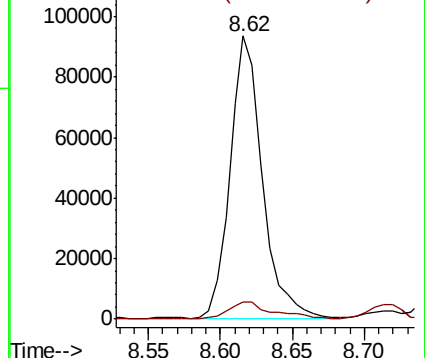
43 100

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



#54

cis-1,3-Dichloropropene

Concen: 9.009 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007291.D

Acq: 29 Jan 2019 16:35

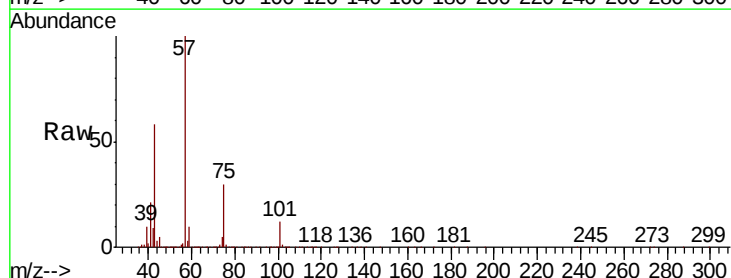
Tgt Ion: 75 Resp: 71728

Ion Ratio Lower Upper

75 100

77 0.7 26.2 39.2#

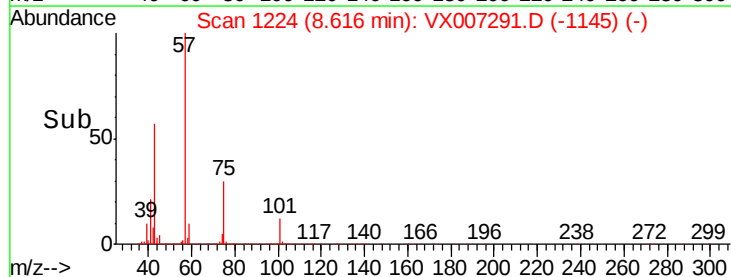
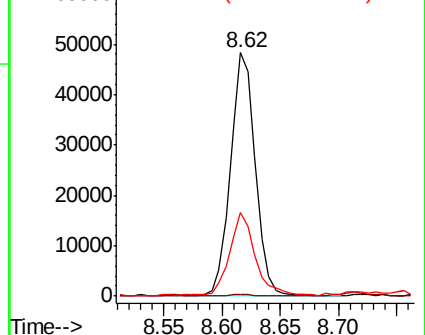
39 33.8 36.7 55.1#

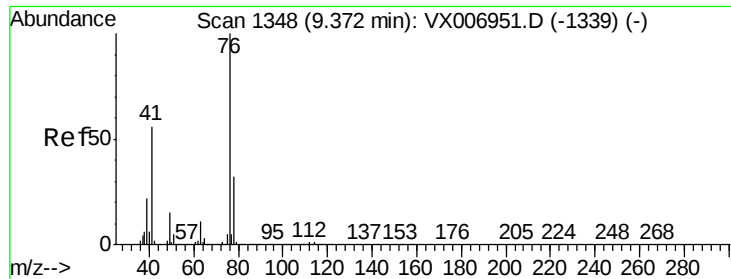


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 1.858 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007291.D

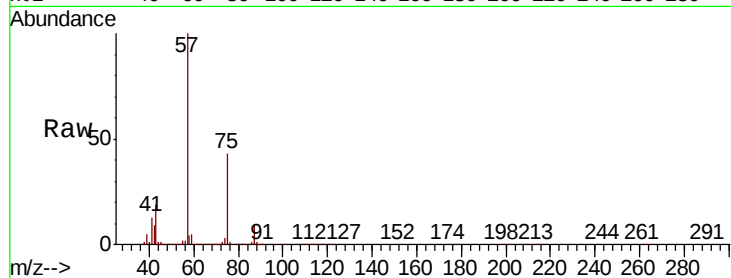
Acq: 29 Jan 2019 16:35

Tot Ion: 76 Resp: 16929

Ion Ratio Lower Upper

76 100

78 1.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

15000

9.54

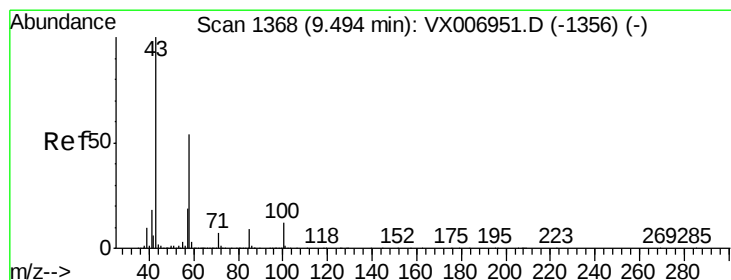
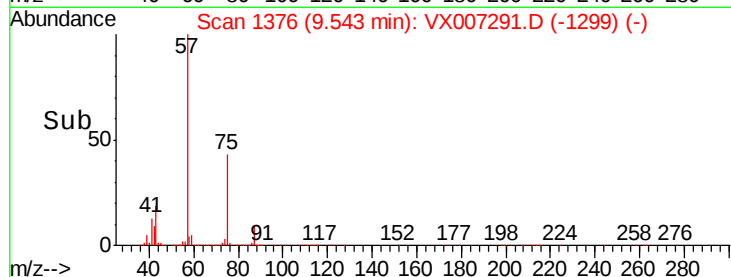
10000

5000

0

Time-->

9.50 9.55 9.60



#59

2-Hexanone

Concen: 38.285 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007291.D

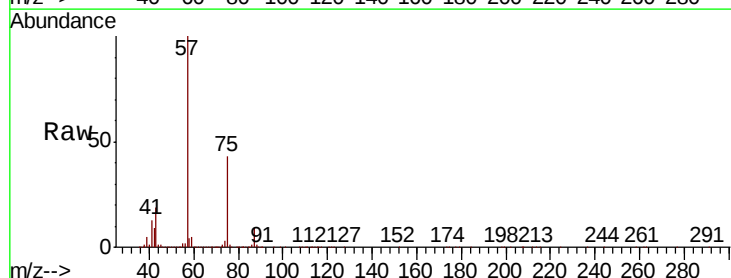
Acq: 29 Jan 2019 16:35

Tgt Ion: 43 Resp: 224640

Ion Ratio Lower Upper

43 100

58 20.3 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

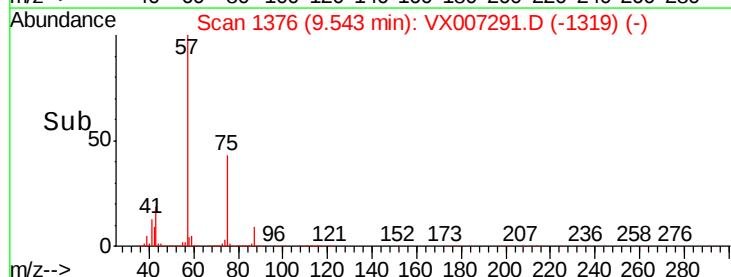
100000

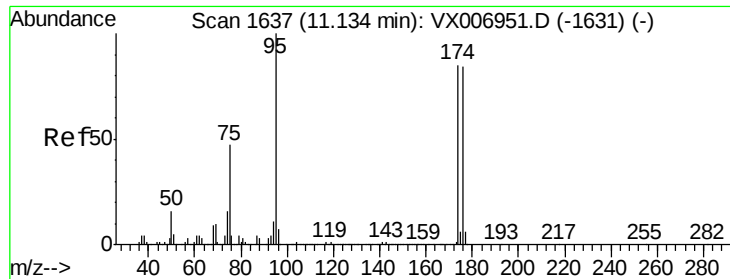
50000

0

Time-->

9.45 9.50 9.55 9.60 9.65





#62

4-Bromofluorobenzene

Concen: 54.105 ug/l

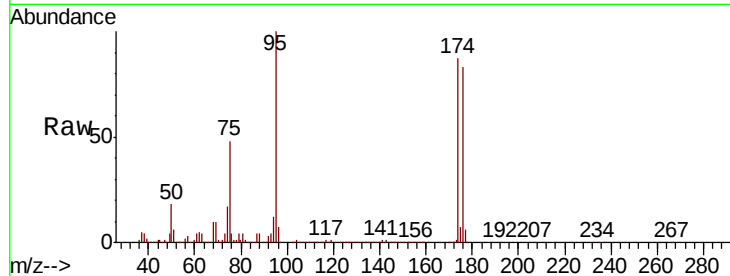
RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

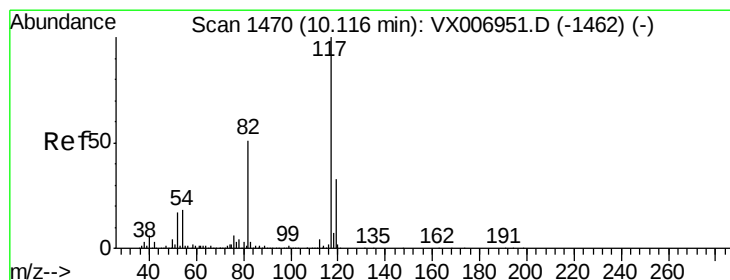
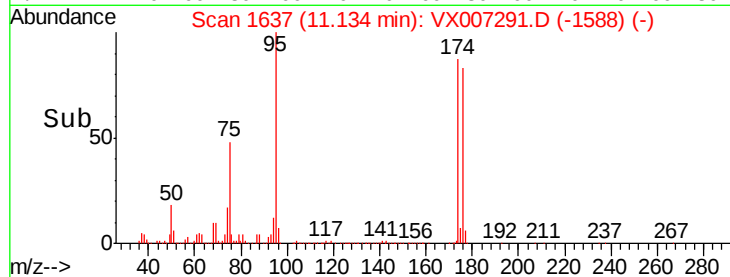
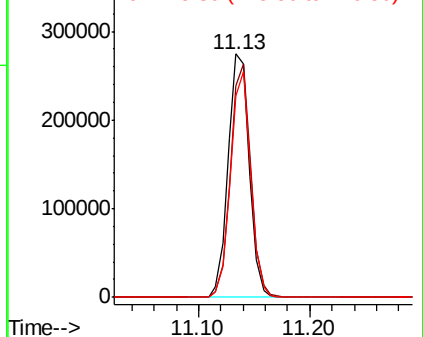
Lab File: VX007291.D

Acq: 29 Jan 2019 16:35

Tot Ion:	95	Resp:	360295
Ion	Ratio	Lower	Upper
95	100		
174	92.0	0.0	182.2
176	88.3	0.0	178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006951.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

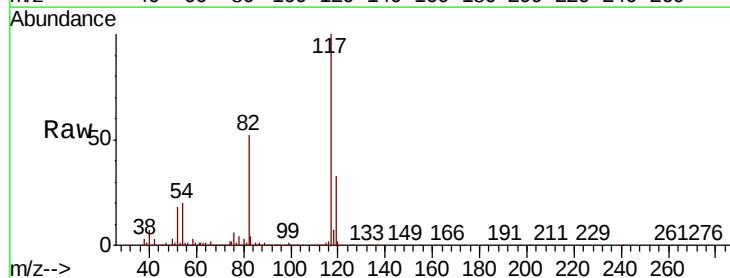
RT: 10.11 min Scan# 1469

Delta R.T. -0.01 min

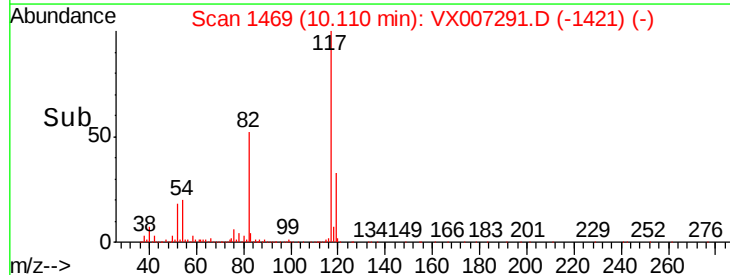
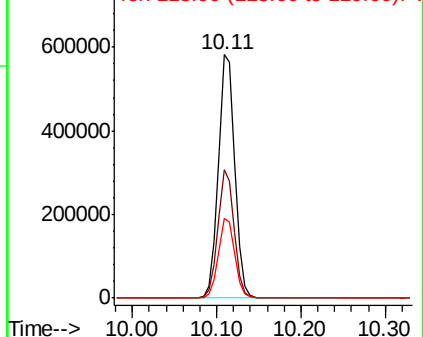
Lab File: VX007291.D

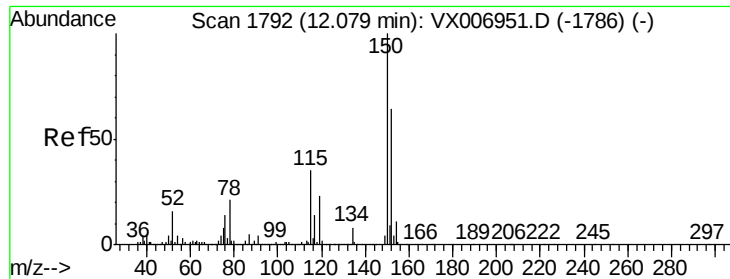
Acq: 29 Jan 2019 16:35

Tgt Ion:	117	Resp:	792329
Ion	Ratio	Lower	Upper
117	100		
82	52.5	41.0	61.6
119	32.5	25.4	38.0



Abundance Ion 116.90 (116.60 to 117.60): VX006951.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007291.D

Acq: 29 Jan 2019 16:35

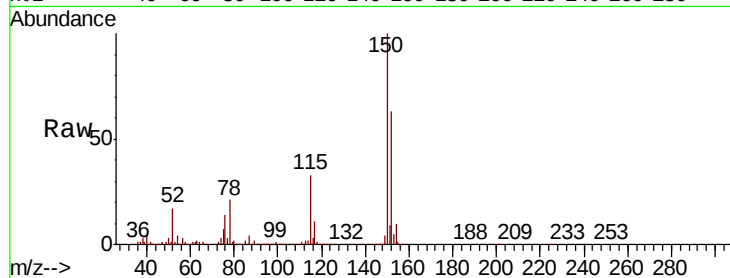
Tot Ion:152 Resp: 380305

Ion Ratio Lower Upper

152 100

115 54.1 39.1 117.2

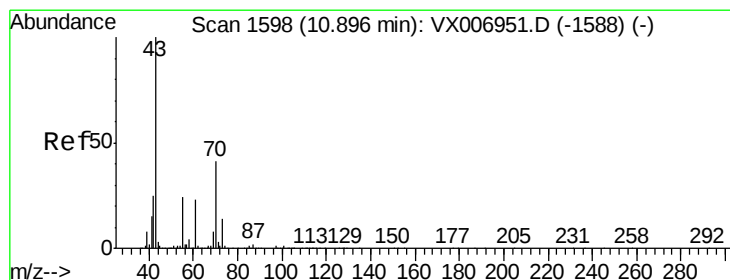
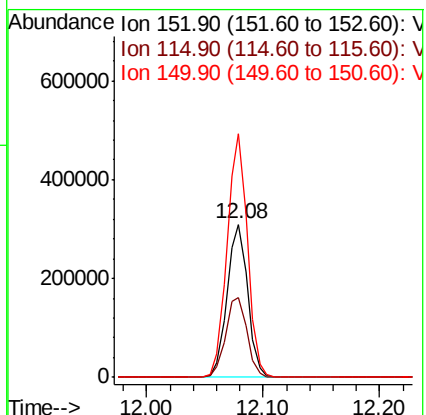
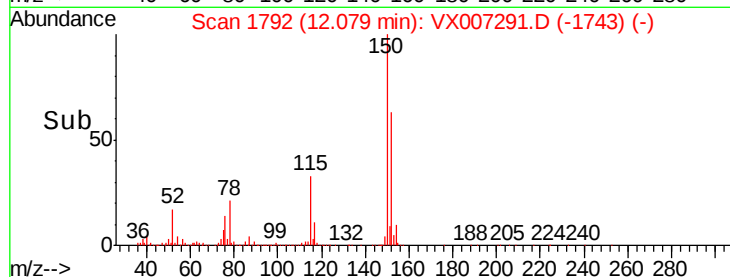
150 156.4 0.0 344.8



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



#74

N-amil acetate

Concen: 2.161 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007291.D

Acq: 29 Jan 2019 16:35

Tgt Ion: 43 Resp: 23335

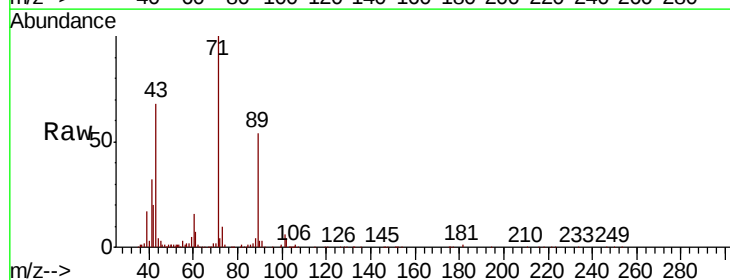
Ion Ratio Lower Upper

43 100

70 3.4 35.8 53.8#

55 6.3 19.4 29.0#

61 12.9 20.1 30.1#

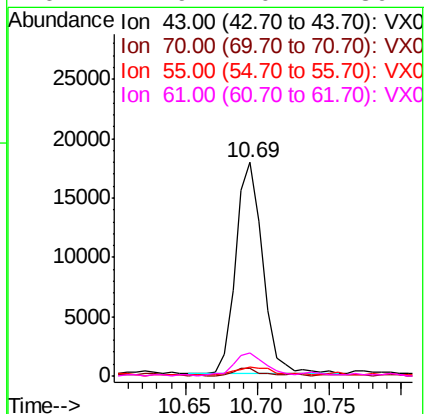
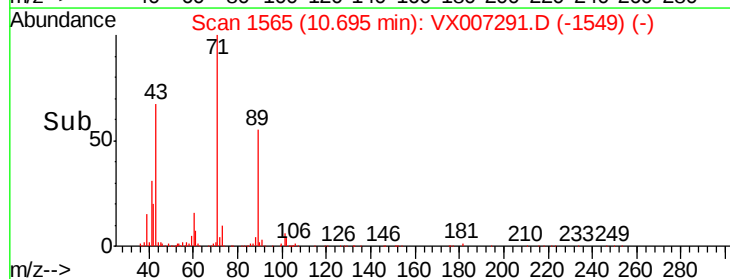


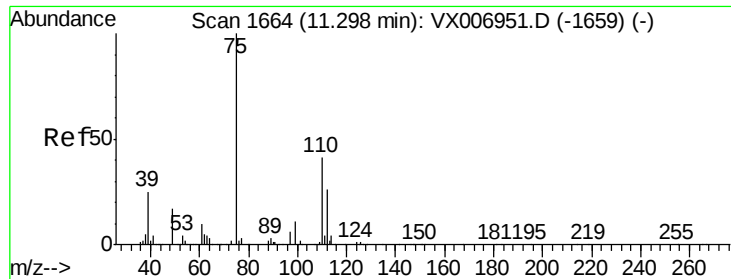
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

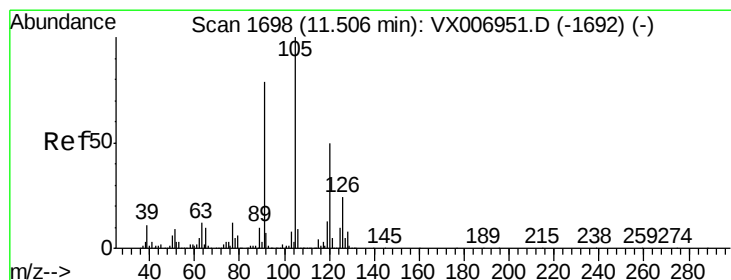
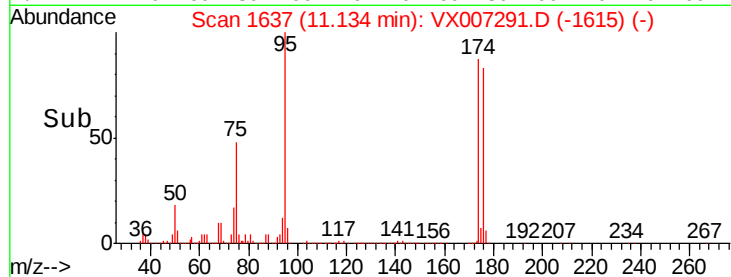
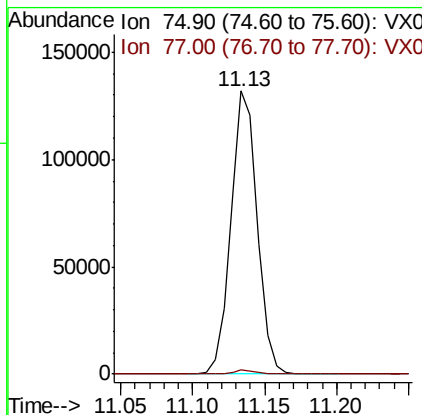
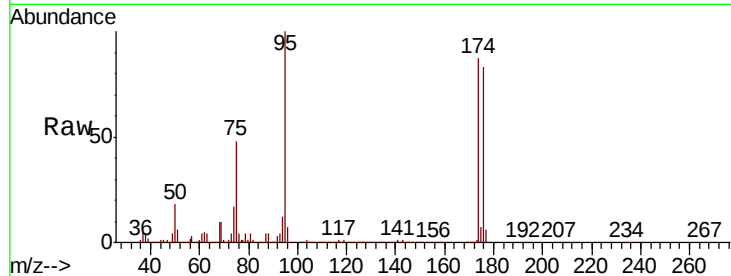




#76

1,2,3-Trichloropropane
Concen: 21.880 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX007291.D
Acq: 29 Jan 2019 16:35

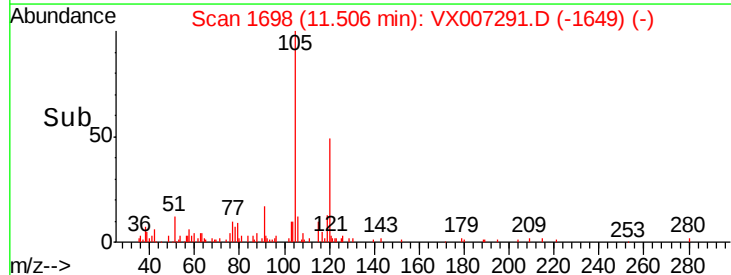
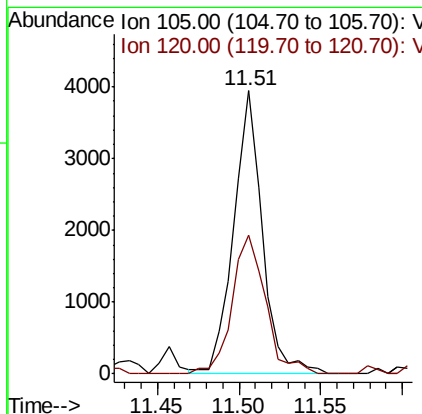
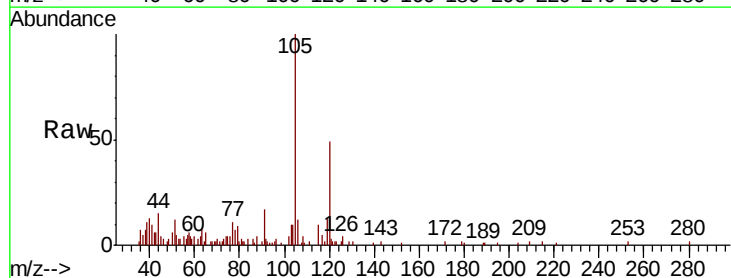
Tot Ion: 75 Resp: 168621
Ion Ratio Lower Upper
75 100
77 1.4 18.5 55.5#

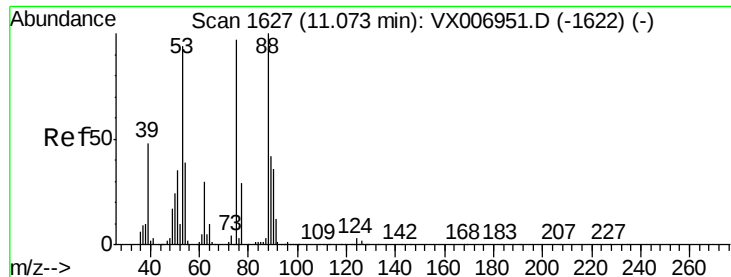


#80

1,3,5-Trimethylbenzene
Concen: 0.216 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. 0.00 min
Lab File: VX007291.D
Acq: 29 Jan 2019 16:35

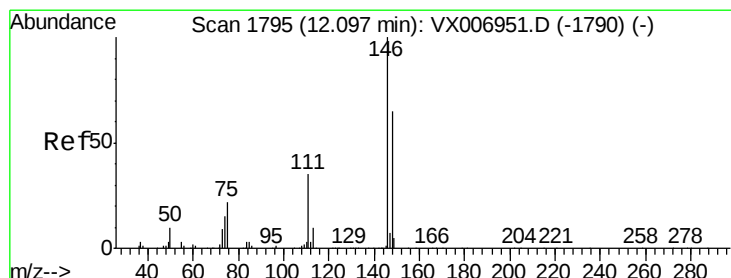
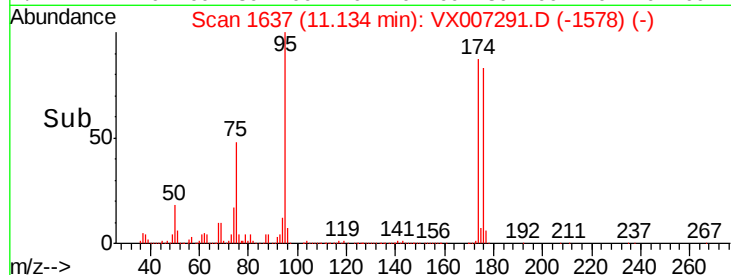
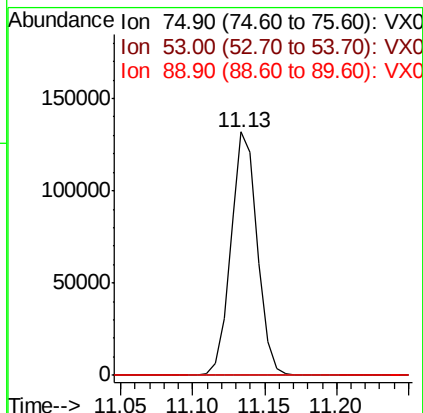
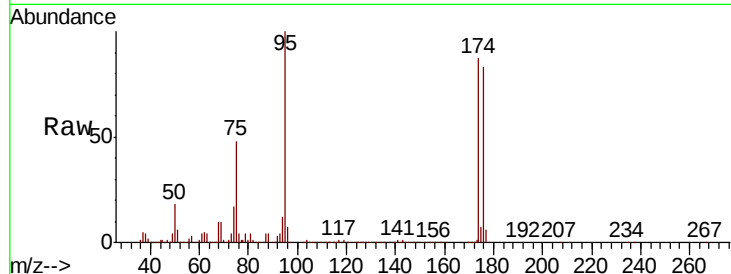
Tgt Ion: 105 Resp: 4842
Ion Ratio Lower Upper
105 100
120 57.0 25.1 75.3





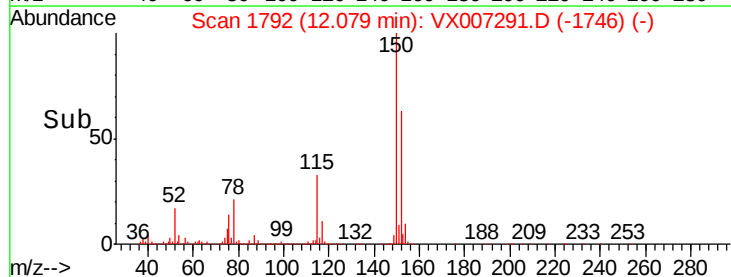
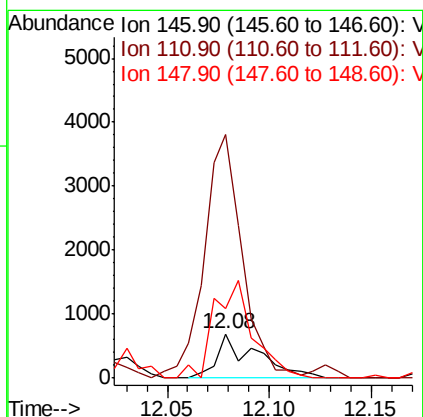
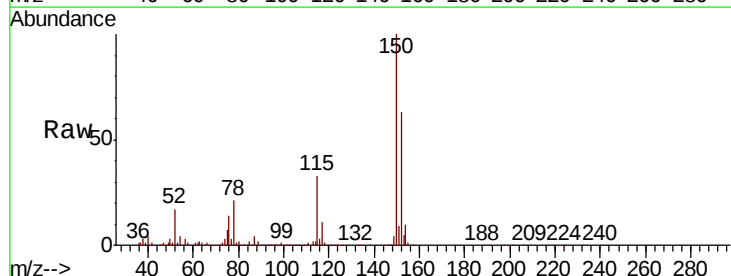
#81
trans-1,4-Dichloro-2-butene
Concen: 64.817 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX007291.D
Acq: 29 Jan 2019 16:35

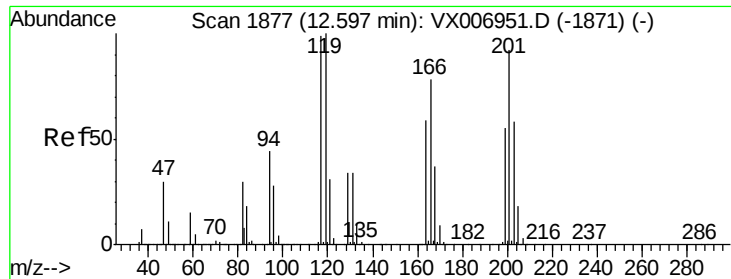
Tot Ion	Ratio	Lower	Upper
75	100		
53	0.1	79.7	119.5#
89	0.1	38.0	57.0#



#88
1,4-Dichlorobenzene
Concen: 0.219 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.02 min
Lab File: VX007291.D
Acq: 29 Jan 2019 16:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	528.3	18.1	54.1#
148	218.6	31.9	95.9#





#90

Hexachloroethane

Concen: 2.915 ug/l

RT: 12.73 min Scan# 1899

Delta R.T. 0.14 min

Lab File: VX007291.D

Acq: 29 Jan 2019 16:35

Tot Ion:117 Resp: 26

Ion Ratio Lower Upper

117 100

201 80.8 42.9 128.7

