

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX011019\
 Data File : VX006999.D
 Acq On : 10 Jan 2019 19:20
 Operator : JC/MD
 Sample : K1015-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU-03-010918-A

Quant Time: Jan 11 07:15:43 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	595664	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	926067	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	872736	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	422986	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	319497	51.32	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.64%		
35) Dibromofluoromethane	5.51	113	278270	46.92	ug/l	0.00
Spiked Amount 50.000			Recovery =	93.84%		
50) Toluene-d8	8.71	98	1122229	51.70	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.40%		
62) 4-Bromofluorobenzene	11.13	95	395457	52.26	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.52%		

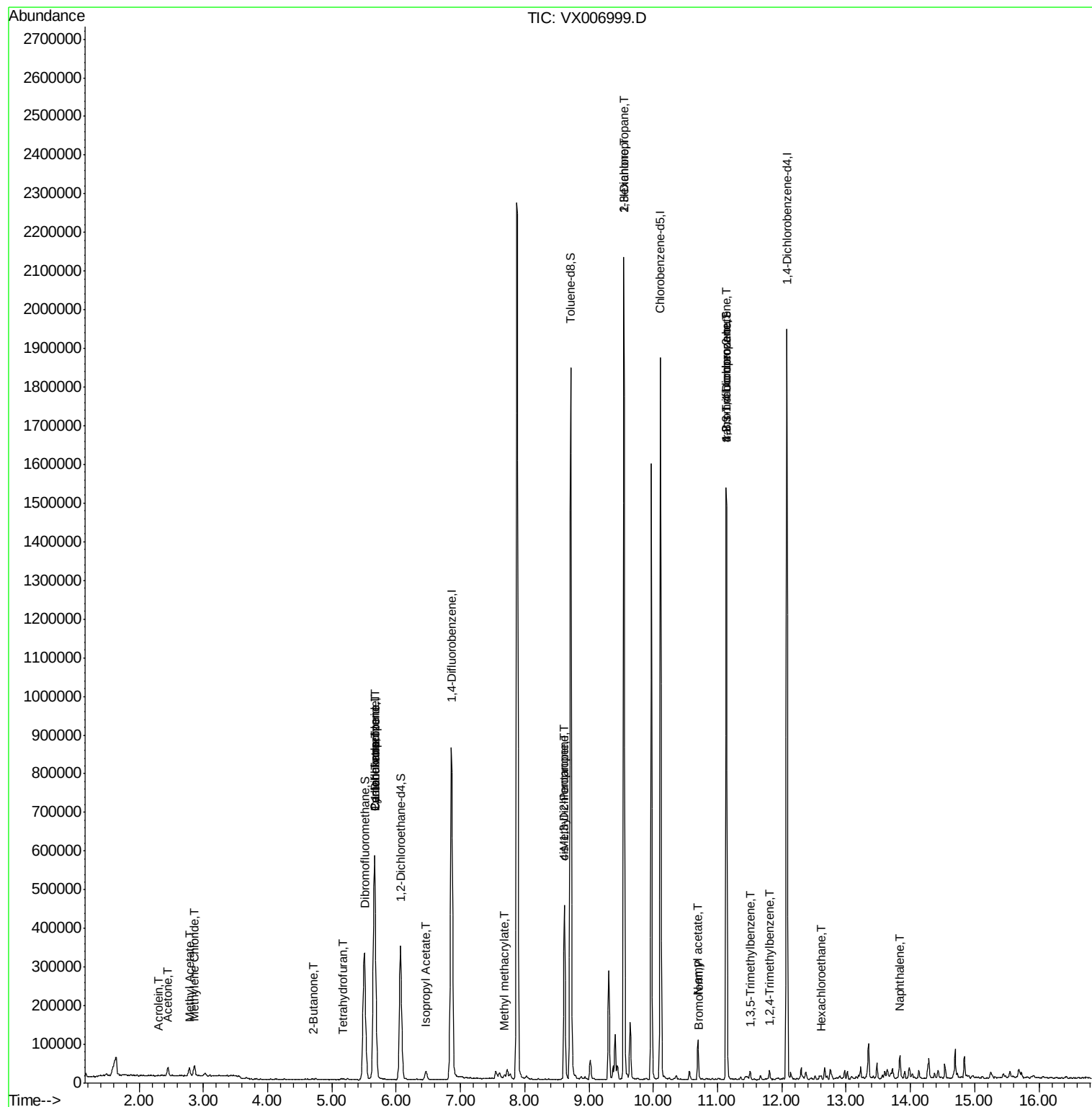
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.31	56	405	3.716	ug/l #	1
16) Acetone	2.45	43	23103	7.507	ug/l	97
18) Methyl Acetate	2.78	43	28140	3.157	ug/l	99
20) Methylene Chloride	2.86	84	13142	1.698	ug/l #	90
25) 2-Butanone	4.71	43	3500	0.795	ug/l #	72
29) Tetrahydrofuran	5.17	42	1874	0.655	ug/l #	86
31) Cyclohexane	5.67	56	10074	1.148	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	37538	4.662	ug/l #	49
38) Carbon Tetrachloride	5.67	117	53508	6.605	ug/l #	16
43) Isopropyl Acetate	6.46	43	27090	1.990	ug/l	98
48) Methyl methacrylate	7.68	41	13311	1.904	ug/l #	13
49) 1,4-Dioxane	7.72	88	149	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	144337	16.495	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	74638	8.249	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	18840	1.820	ug/l #	44
59) 2-Hexanone	9.54	43	236470	35.463	ug/l #	50
71) Bromoform	10.72	173	144	4.750	ug/l #	28
74) N-amyl acetate	10.69	43	22297	1.857	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	189198	22.073	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	9029	0.362	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.13	75	189198	65.355	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	11162	0.445	ug/l	96
90) Hexachloroethane	12.60	117	911	3.111	ug/l #	11
95) Naphthalene	13.83	128	40504	1.329	ug/l	97

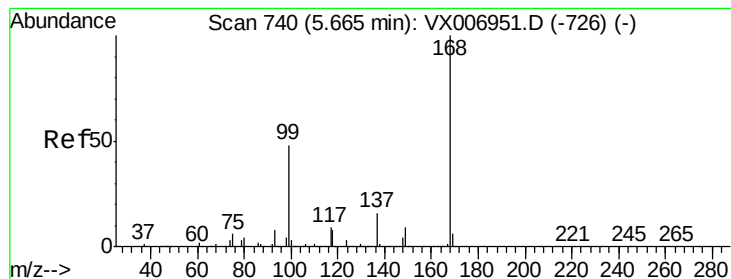
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX011019\
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Instrument :
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ClientSampleId :
SU-03-010918-A

Quant Time: Jan 11 07:15:43 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
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: VX006999.D

Acq: 10 Jan 2019 19:20

Instrument :

MSVOA_X

ClientSampleId :

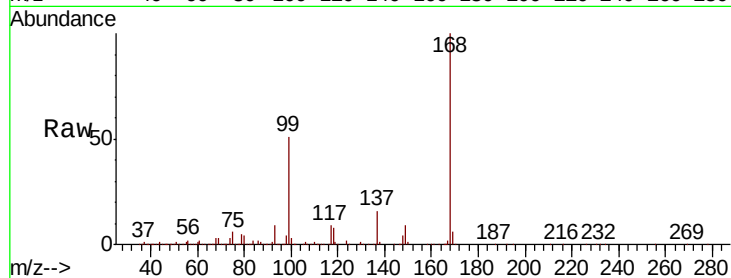
SU-03-010918-A

Tgt Ion:168 Resp: 595664

Ion Ratio Lower Upper

168 100

99 51.0 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

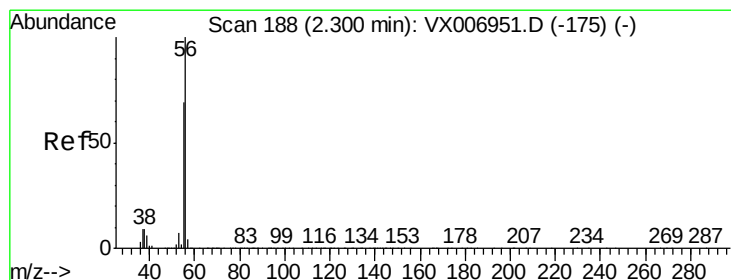
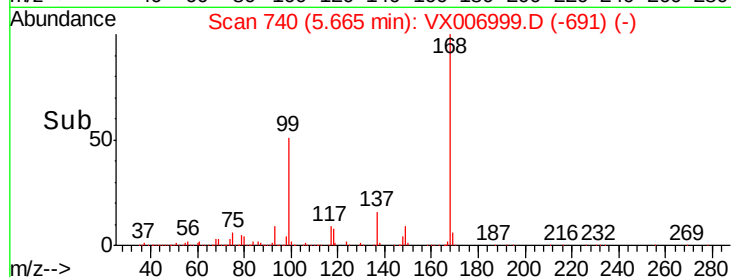
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 3.716 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX006999.D

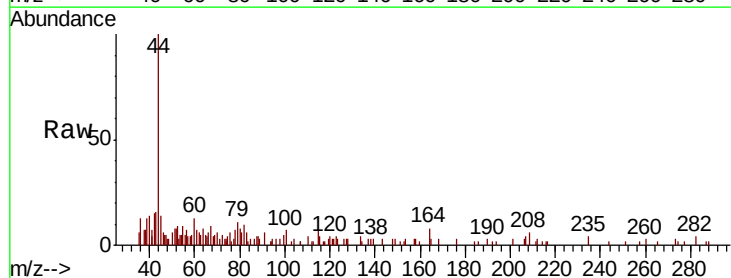
Acq: 10 Jan 2019 19:20

Tgt Ion: 56 Resp: 405

Ion Ratio Lower Upper

56 100

55 161.7 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.31

400

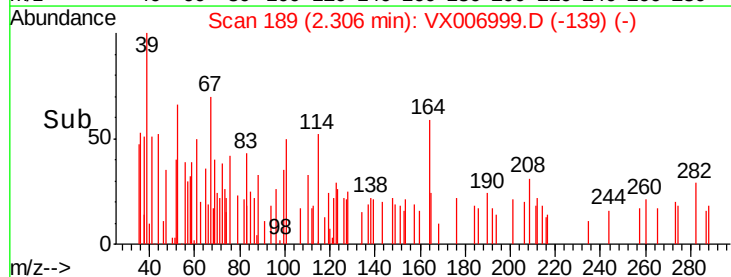
300

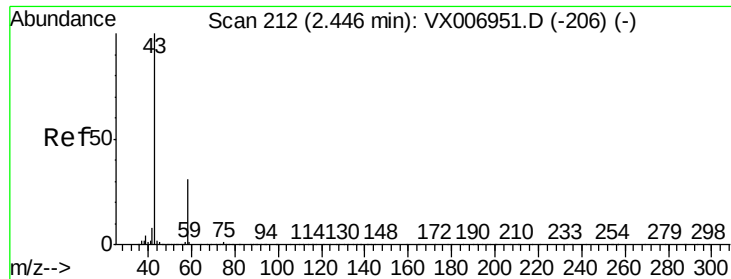
200

100

0

Time-->

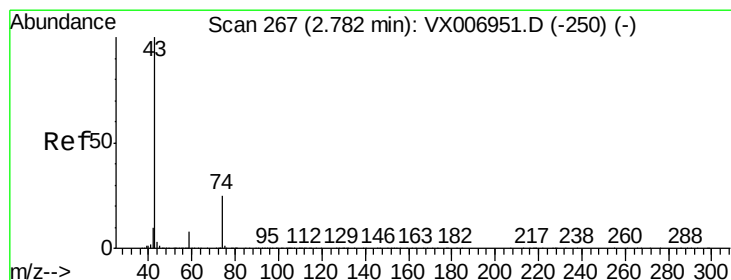
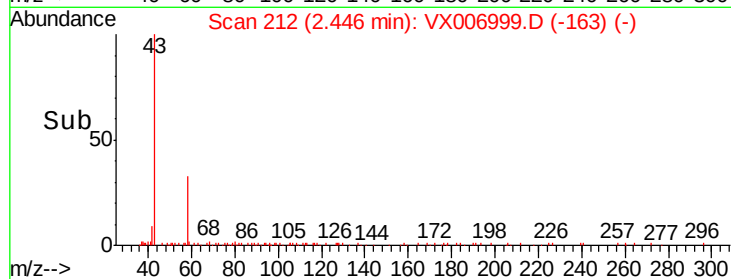
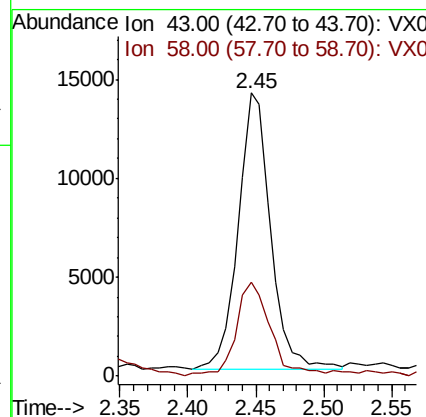
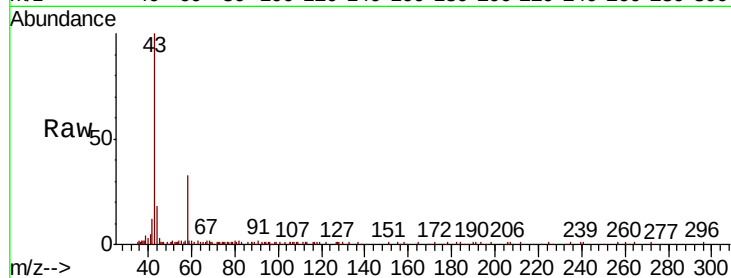




#16
Acetone
Concen: 7.507 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006999.D
Acq: 10 Jan 2019 19:20

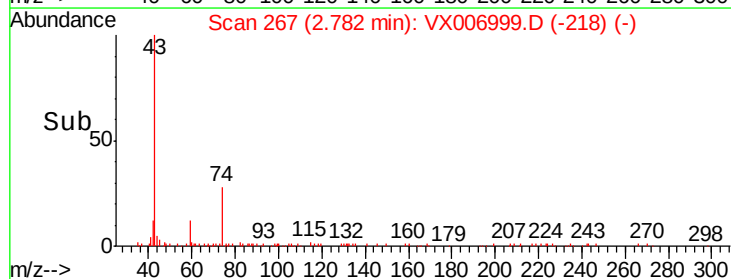
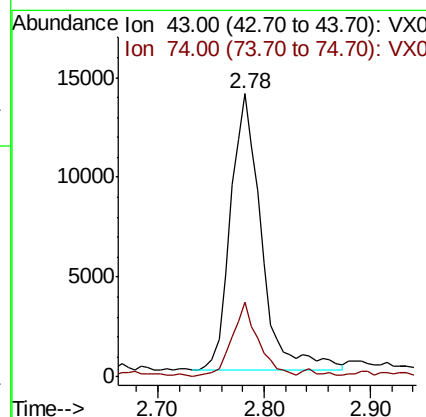
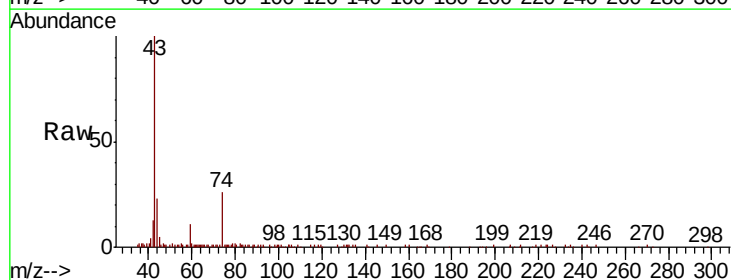
Instrument :
MSVOA_X
ClientSampleId :
SU-03-010918-A

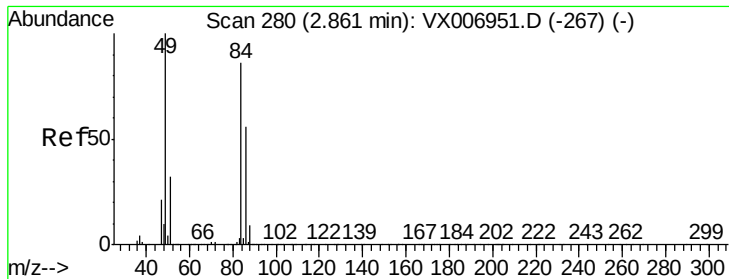
Tgt Ion: 43 Resp: 23103
Ion Ratio Lower Upper
43 100
58 32.8 25.0 37.6



#18
Methyl Acetate
Concen: 3.157 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX006999.D
Acq: 10 Jan 2019 19:20

Tgt Ion: 43 Resp: 28140
Ion Ratio Lower Upper
43 100
74 23.6 18.6 28.0

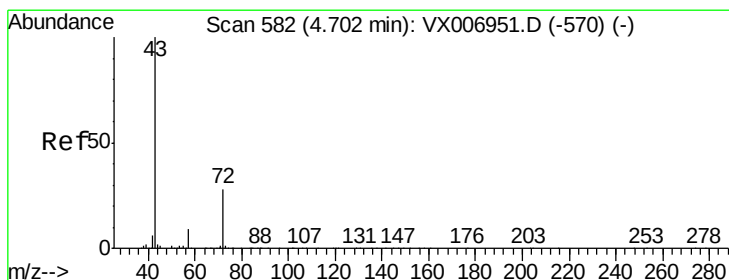
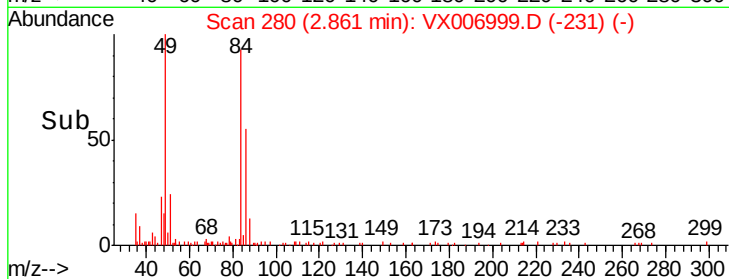
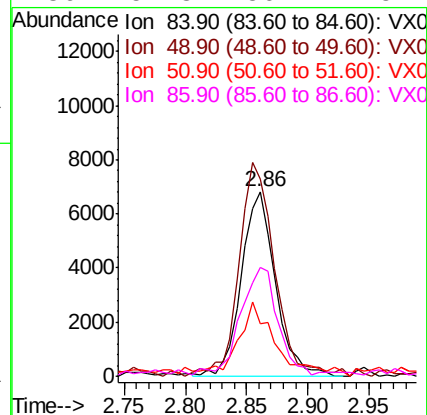
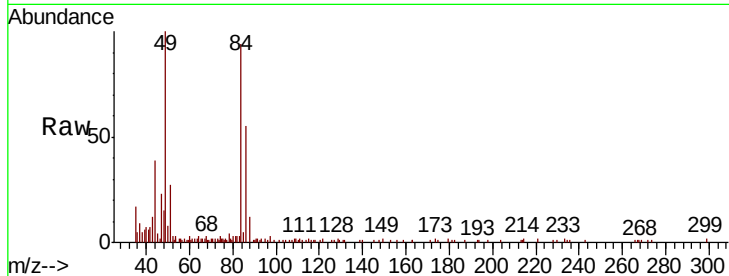




#20
Methylene Chloride
Concen: 1.698 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006999.D
Acq: 10 Jan 2019 19:20

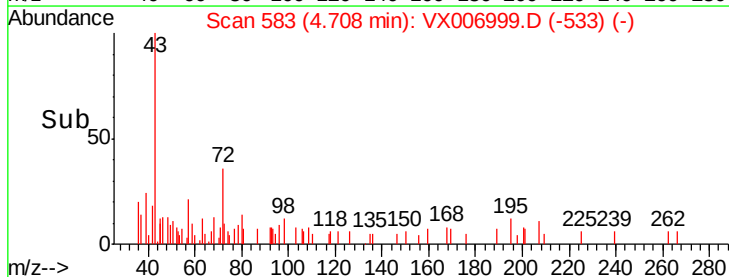
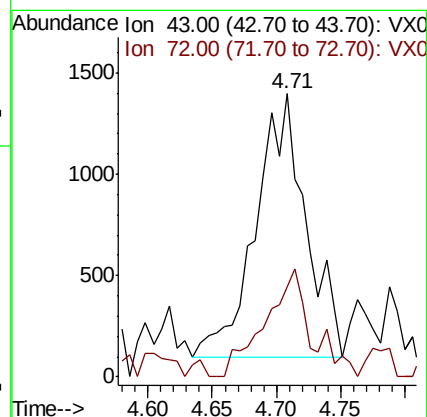
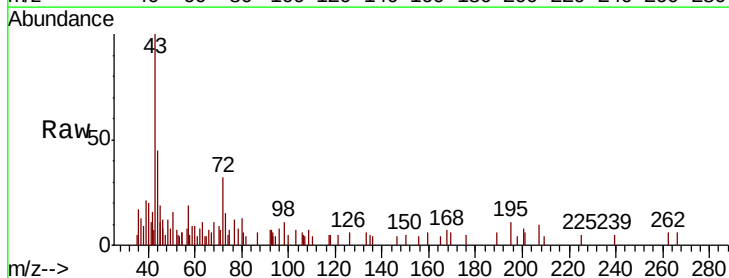
Instrument :
MSVOA_X
ClientSampleId :
SU-03-010918-A

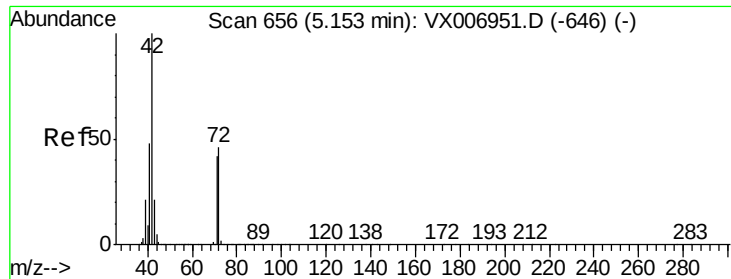
Tgt Ion:	84	Resp:	13142
Ion	Ratio	Lower	Upper
84	100		
49	104.5	91.8	137.6
51	25.9	28.5	42.7#
86	57.8	50.2	75.2



#25
2-Butanone
Concen: 0.795 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX006999.D
Acq: 10 Jan 2019 19:20

Tgt Ion:	43	Resp:	3500
Ion	Ratio	Lower	Upper
43	100		
72	42.5	22.4	33.6#





#29

Tetrahydrofuran

Concen: 0.655 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX006999.D

Acq: 10 Jan 2019 19:20

Instrument :

MSVOA_X

ClientSampleId :

SU-03-010918-A

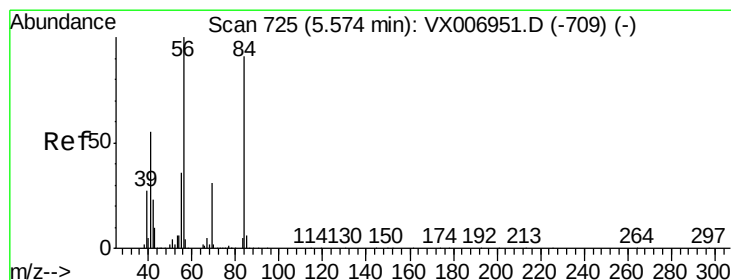
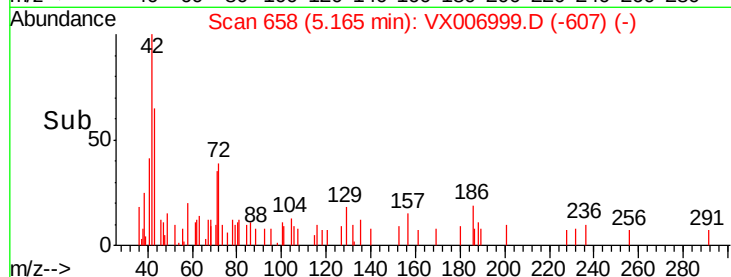
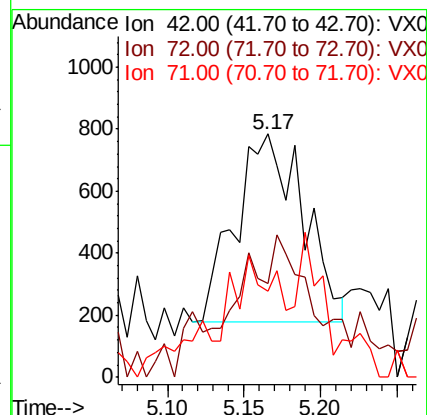
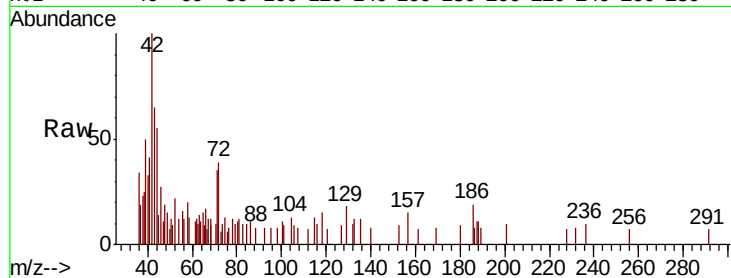
Tgt Ion: 42 Resp: 1874

Ion Ratio Lower Upper

42 100

72 52.7 38.9 58.3

71 59.8 36.2 54.4#



#31

Cyclohexane

Concen: 1.148 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX006999.D

Acq: 10 Jan 2019 19:20

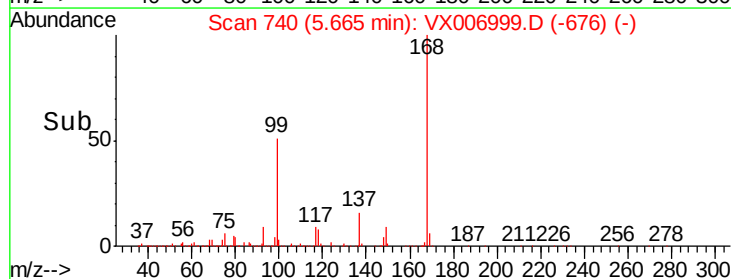
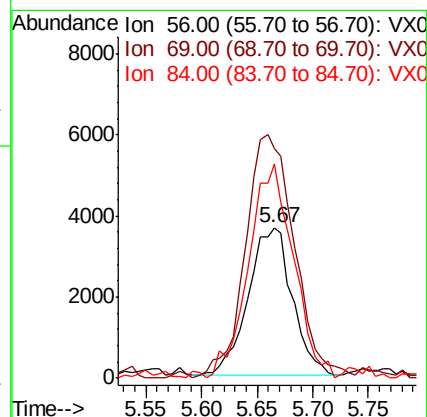
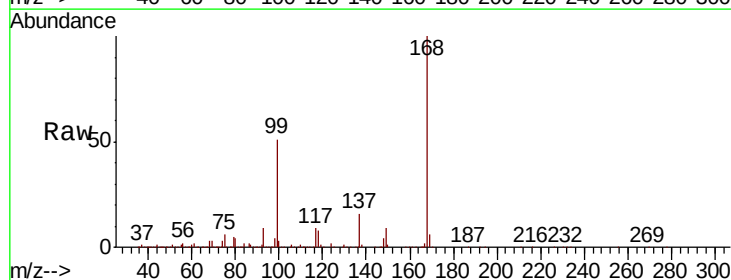
Tgt Ion: 56 Resp: 10074

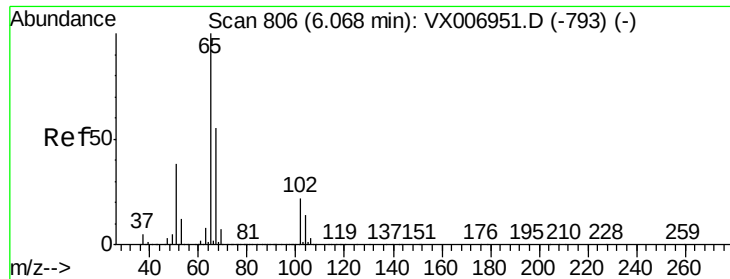
Ion Ratio Lower Upper

56 100

69 156.3 24.4 36.6#

84 142.9 70.0 105.0#

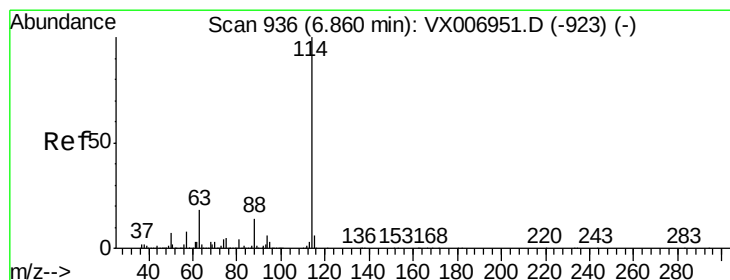
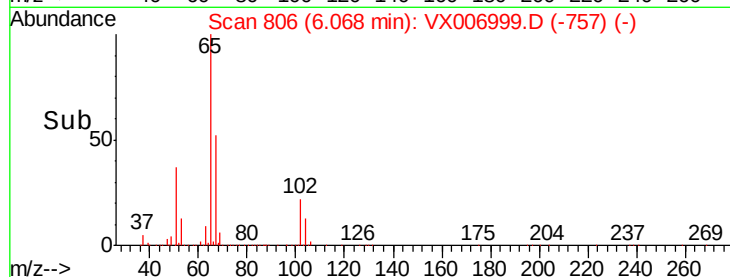
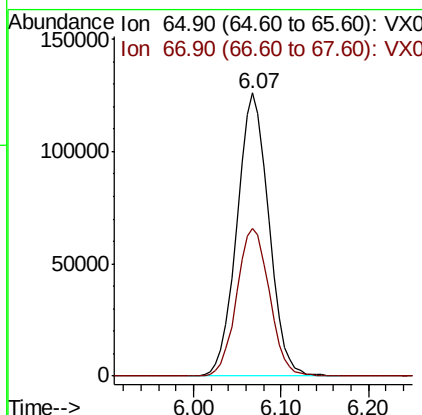
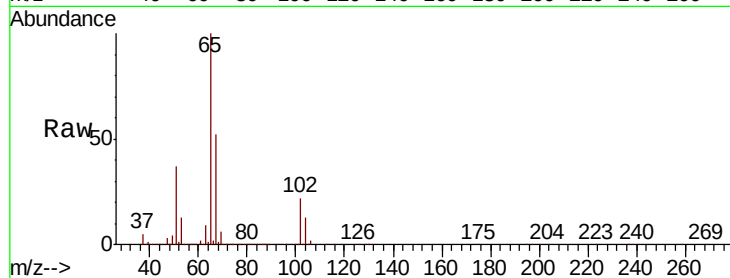




#33
 1,2-Dichloroethane-d4
 Concen: 51.323 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX006999.D
 Acq: 10 Jan 2019 19:20

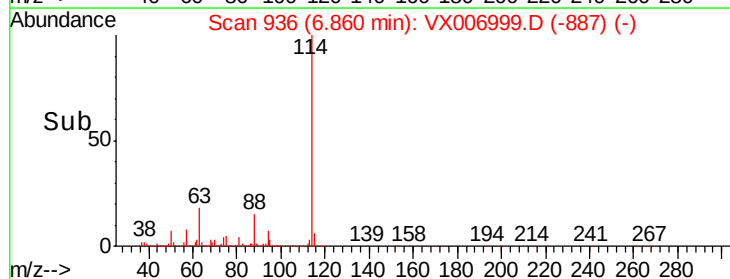
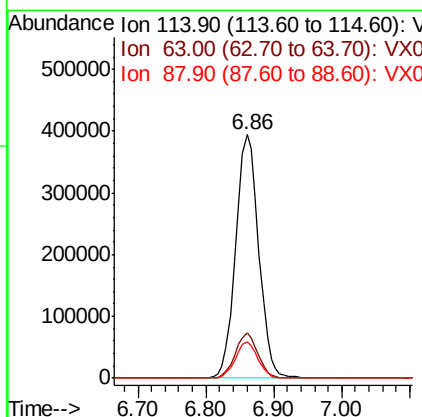
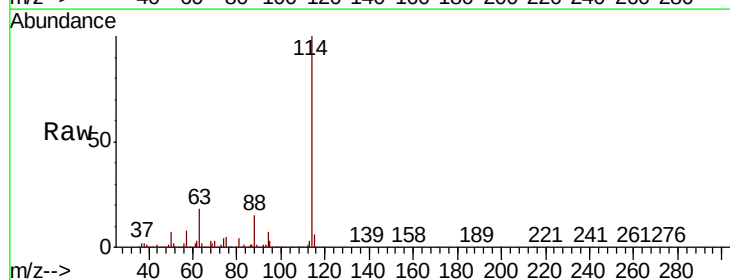
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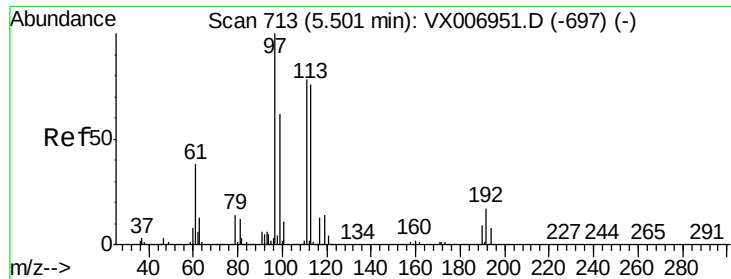
Tgt Ion: 65 Resp: 319497
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX006999.D
 Acq: 10 Jan 2019 19:20

Tgt Ion: 114 Resp: 926067
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 34.8
 88 15.1 0.0 28.8





#35

Dibromofluoromethane

Concen: 46.922 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006999.D

Acq: 10 Jan 2019 19:20

Instrument :

MSVOA_X

ClientSampled :

SU-03-010918-A

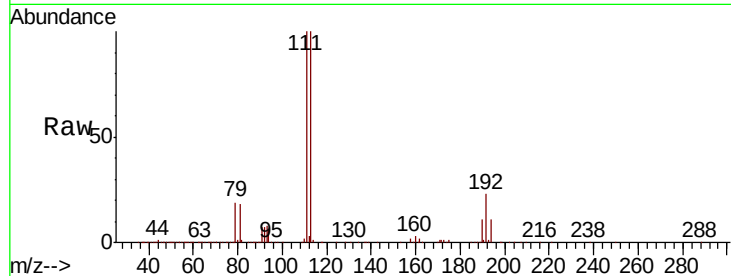
Tgt Ion:113 Resp: 278270

Ion Ratio Lower Upper

113 100

111 103.4 81.6 122.4

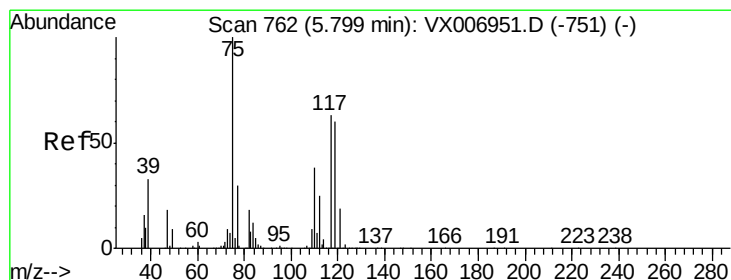
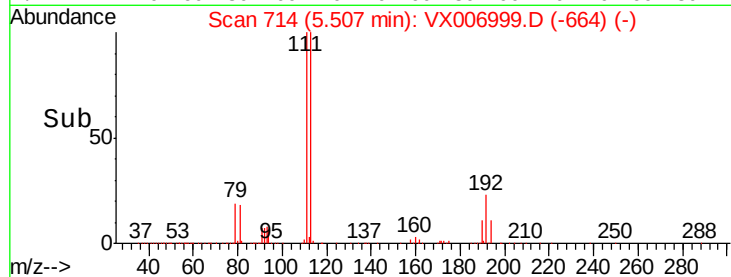
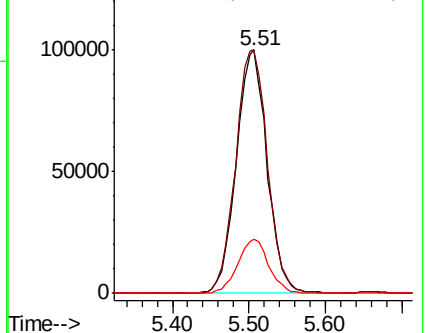
192 22.2 16.7 25.1



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: 4.662 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006999.D

Acq: 10 Jan 2019 19:20

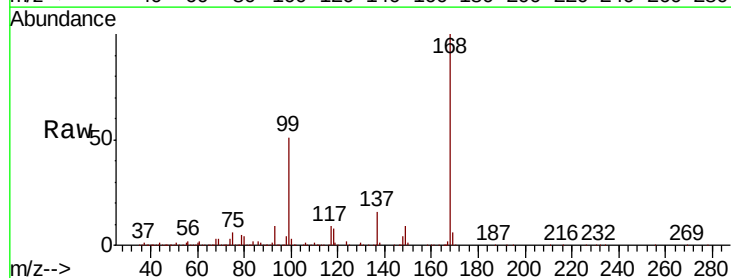
Tgt Ion: 75 Resp: 37538

Ion Ratio Lower Upper

75 100

110 10.4 20.2 60.5#

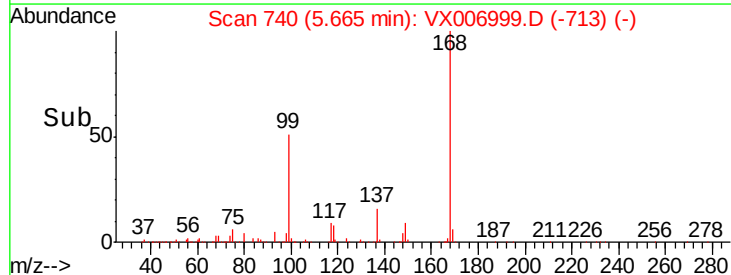
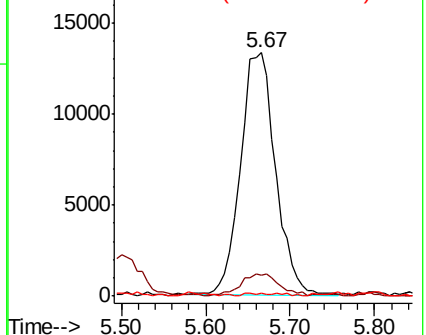
77 0.8 24.8 37.2#

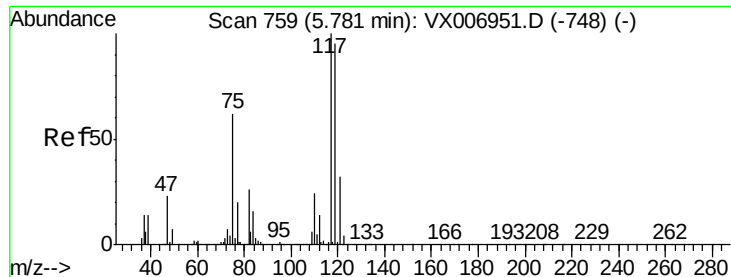


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

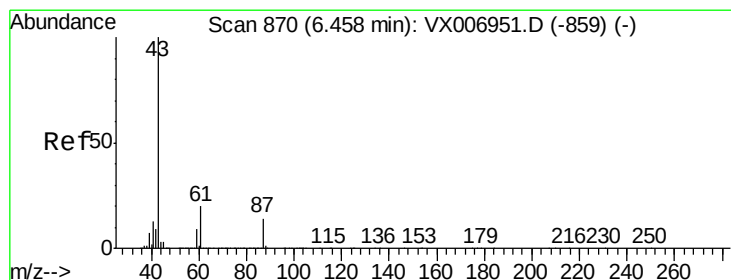
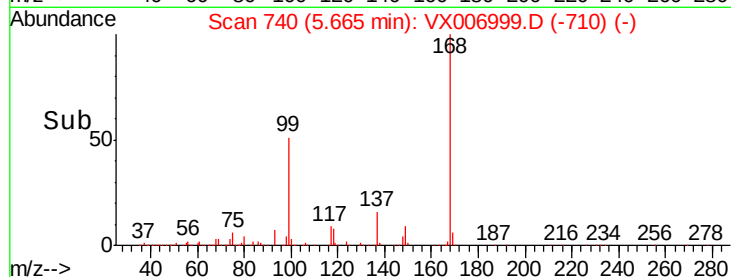
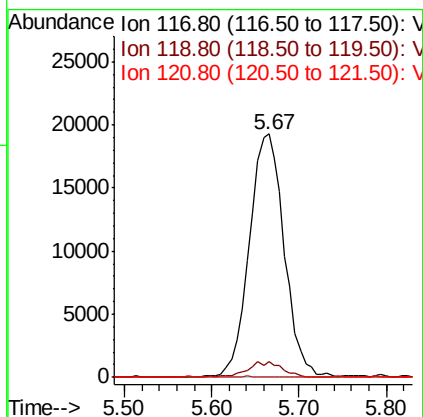
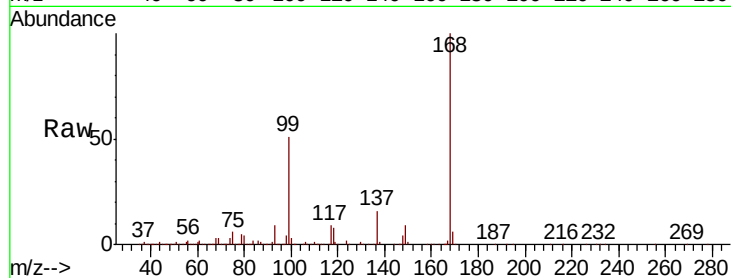




#38
Carbon Tetrachloride
Concen: 6.605 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX006999.D
Acq: 10 Jan 2019 19:20

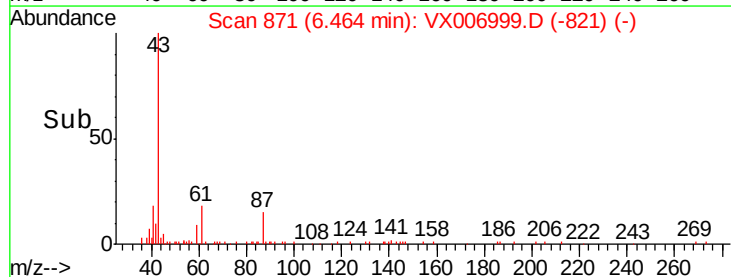
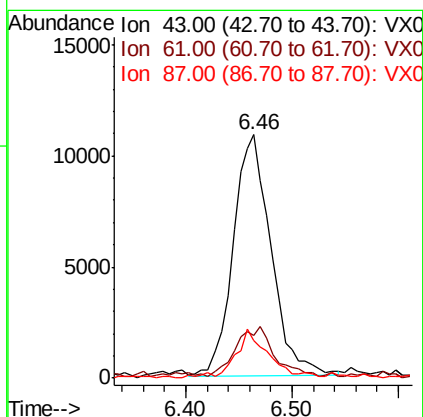
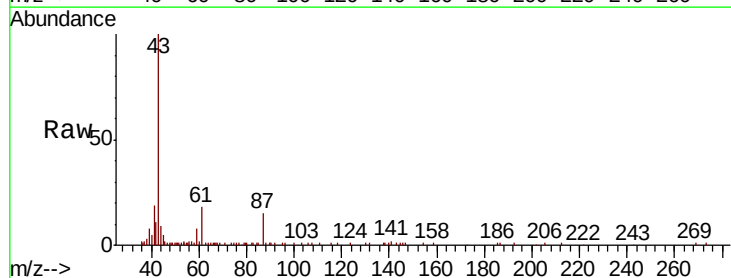
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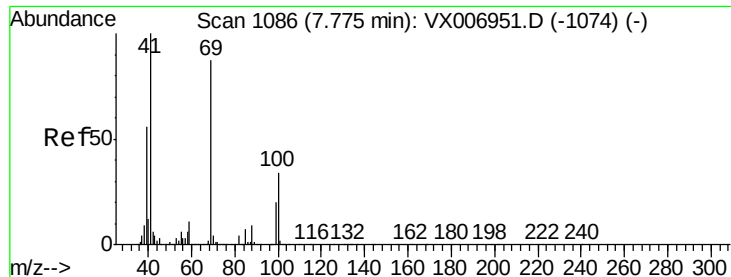
Tgt Ion:117 Resp: 53508
Ion Ratio Lower Upper
117 100
119 6.4 79.4 119.2#
121 0.0 24.0 36.0#



#43
Isopropyl Acetate
Concen: 1.990 ug/l
RT: 6.46 min Scan# 871
Delta R.T. 0.01 min
Lab File: VX006999.D
Acq: 10 Jan 2019 19:20

Tgt Ion: 43 Resp: 27090
Ion Ratio Lower Upper
43 100
61 20.8 16.8 25.2
87 16.9 12.4 18.6





#48

Methyl methacrylate

Concen: 1.904 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX006999.D

Acq: 10 Jan 2019 19:20

Instrument :

MSVOA_X

ClientSampleId :

SU-03-010918-A

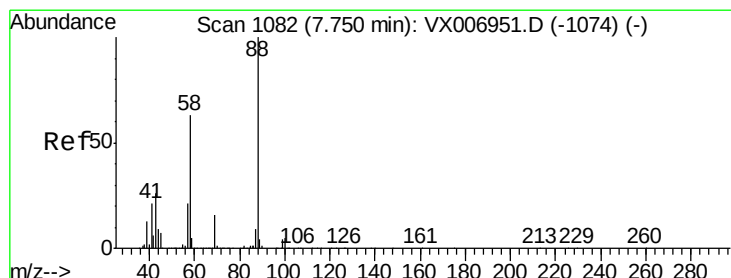
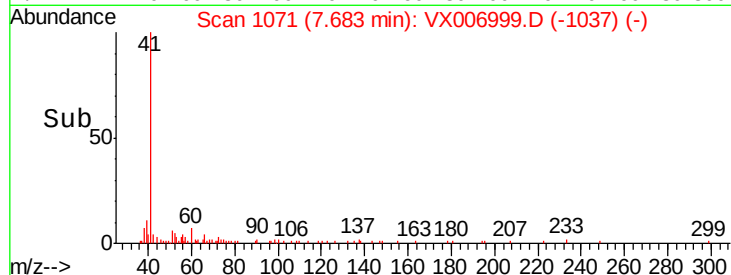
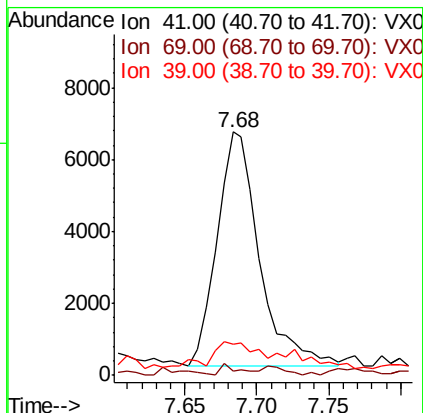
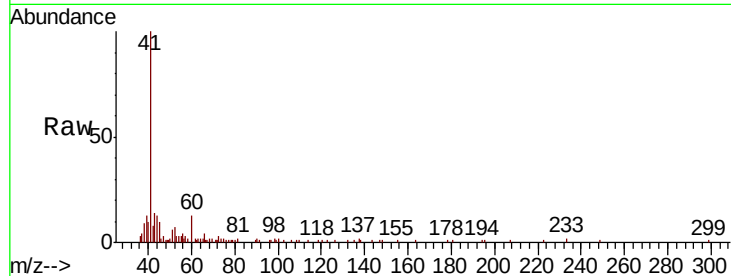
Tgt Ion: 41 Resp: 13311

Ion Ratio Lower Upper

41 100

69 2.1 72.4 108.6#

39 0.0 45.8 68.8#



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.72 min Scan# 1077

Delta R.T. -0.03 min

Lab File: VX006999.D

Acq: 10 Jan 2019 19:20

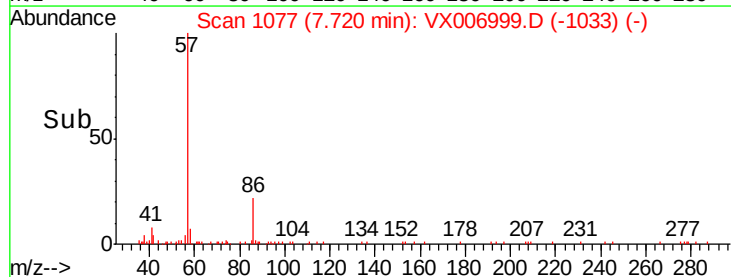
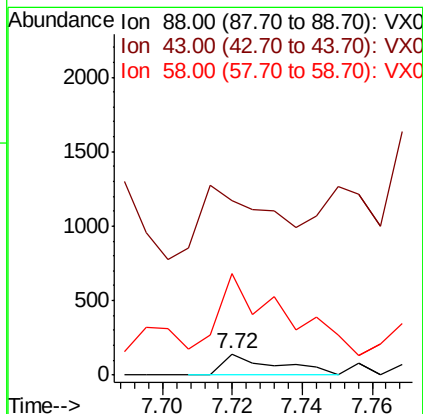
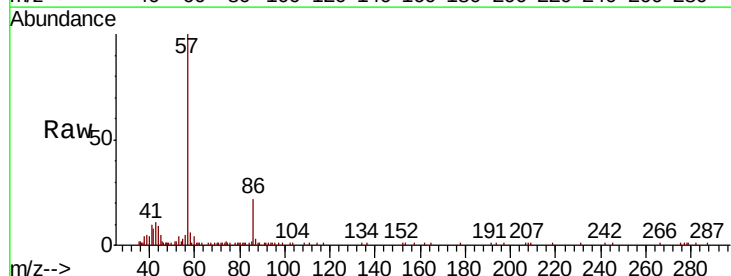
Tgt Ion: 88 Resp: 149

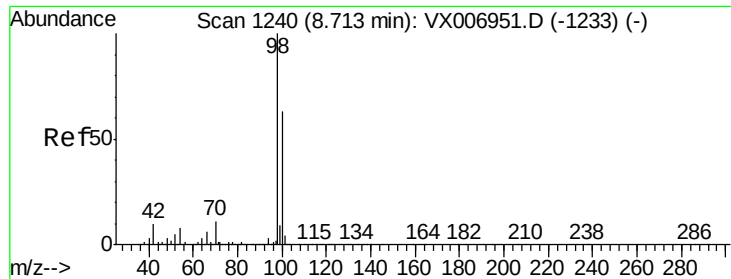
Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 577.2 51.0 76.4#





#50

Toluene-d8

Concen: 51.698 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006999.D

Acq: 10 Jan 2019 19:20

Instrument :

MSVOA_X

ClientSampleId :

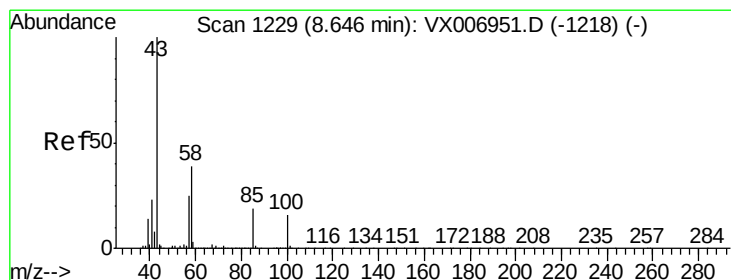
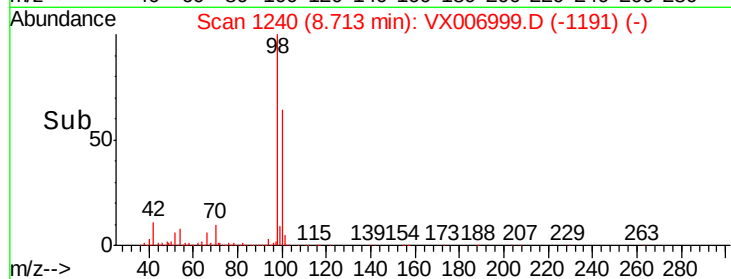
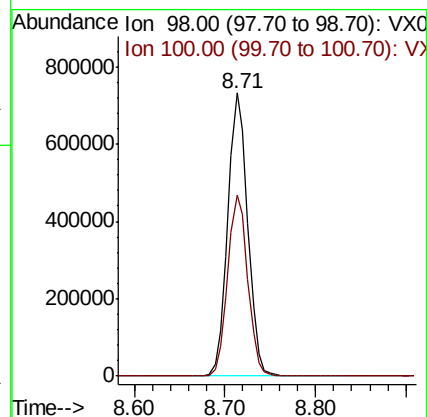
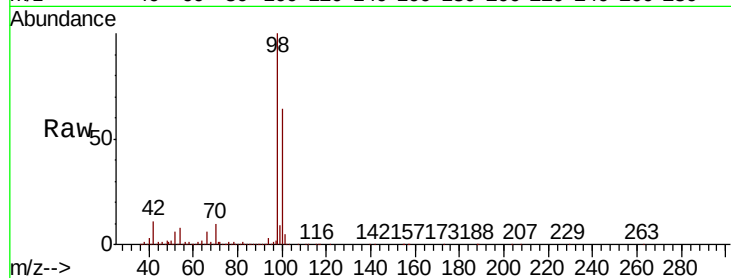
SU-03-010918-A

Tgt Ion: 98 Resp: 1122229

Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 16.495 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX006999.D

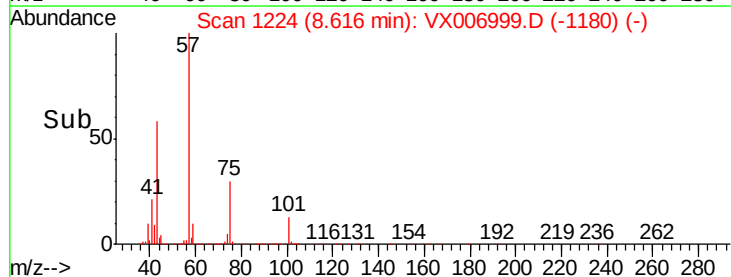
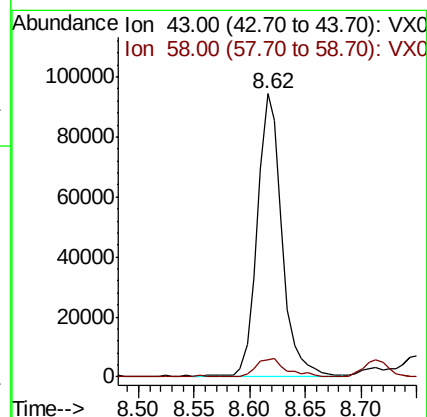
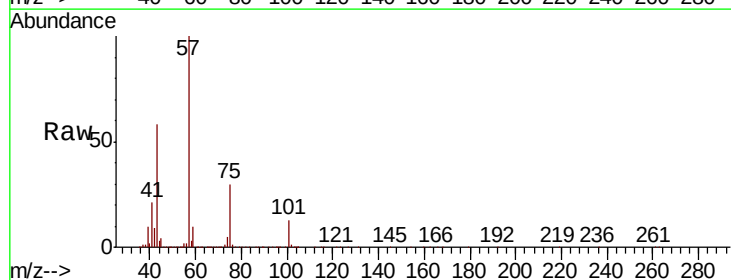
Acq: 10 Jan 2019 19:20

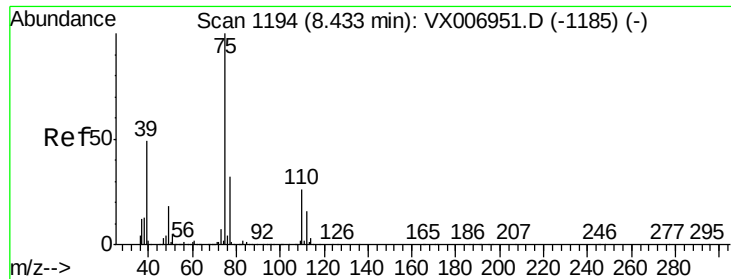
Tgt Ion: 43 Resp: 144337

Ion Ratio Lower Upper

43 100

58 8.0 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 8.249 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX006999.D

Acq: 10 Jan 2019 19:20

Instrument :

MSVOA_X

ClientSampleId :

SU-03-010918-A

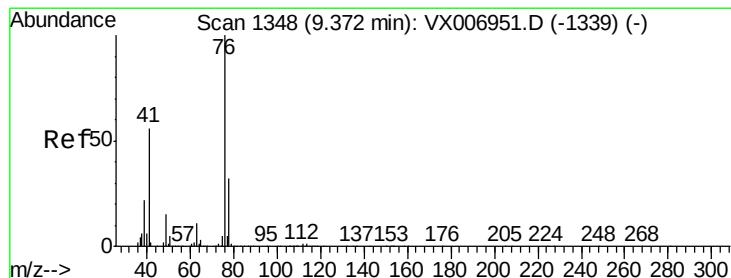
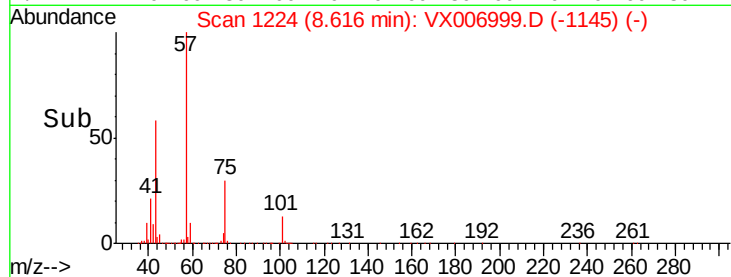
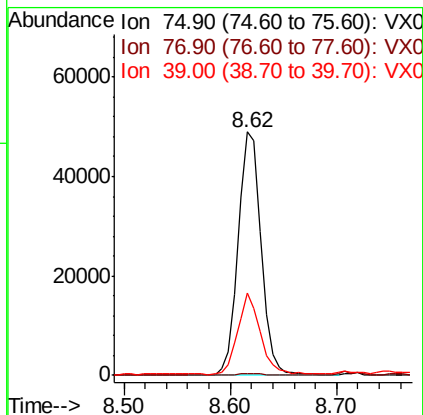
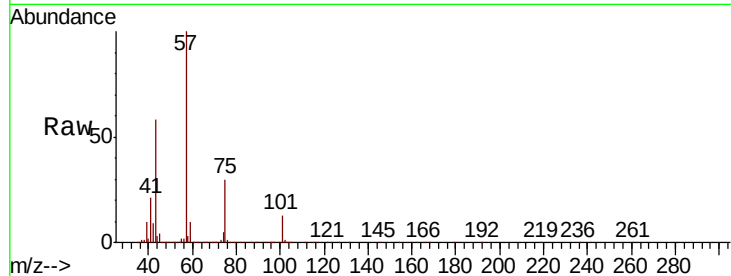
Tgt Ion: 75 Resp: 74638

Ion Ratio Lower Upper

75 100

77 0.7 26.2 39.2#

39 32.6 36.7 55.1#



#57

1,3-Dichloropropene

Concen: 1.820 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006999.D

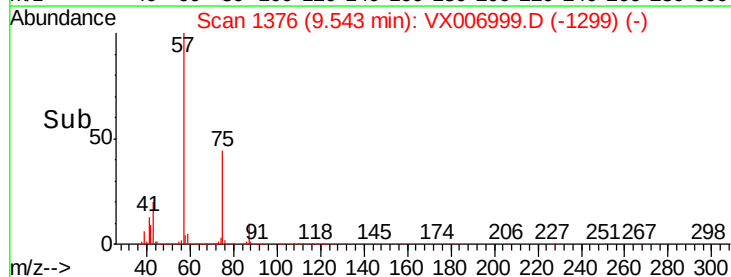
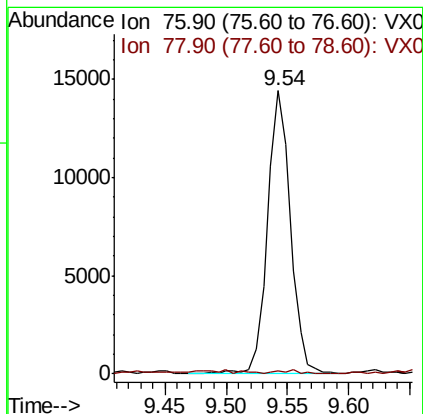
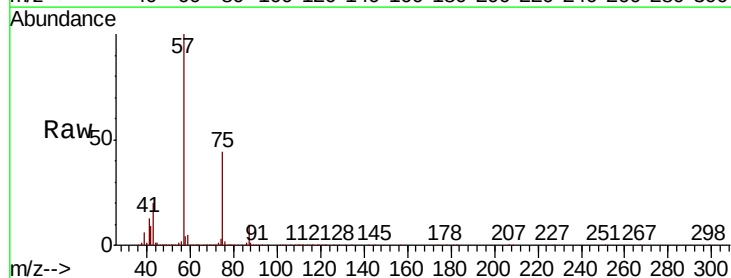
Acq: 10 Jan 2019 19:20

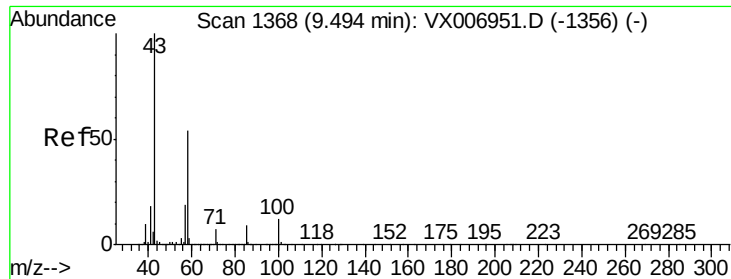
Tgt Ion: 76 Resp: 18840

Ion Ratio Lower Upper

76 100

78 1.2 26.0 39.0#





#59

2-Hexanone

Concen: 35.463 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006999.D

Acq: 10 Jan 2019 19:20

Instrument :

MSVOA_X

ClientSampleId :

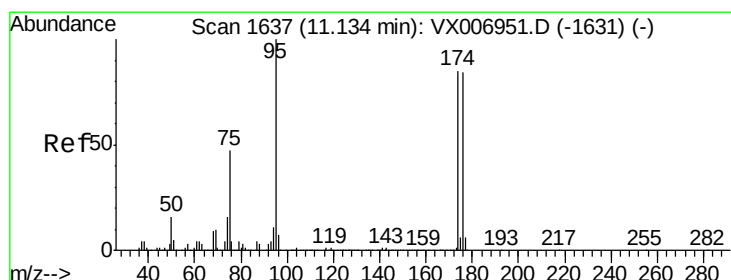
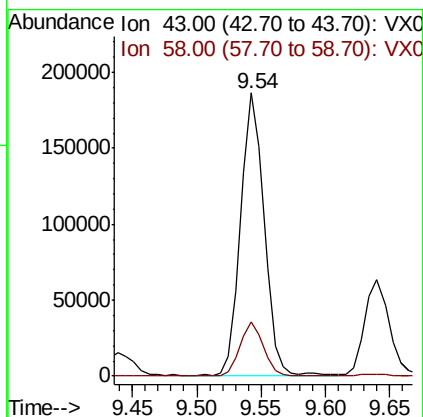
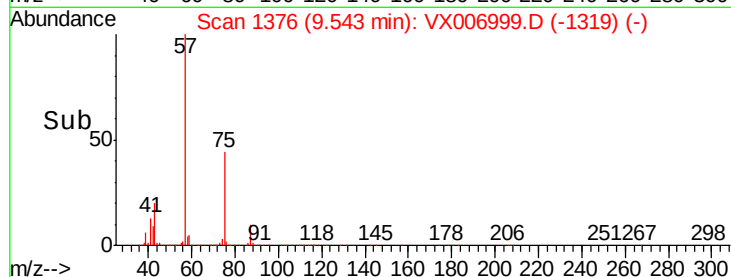
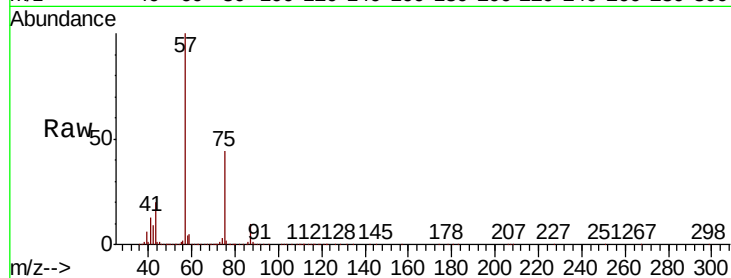
SU-03-010918-A

Tgt Ion: 43 Resp: 236470

Ion Ratio Lower Upper

43 100

58 19.5 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 52.256 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006999.D

Acq: 10 Jan 2019 19:20

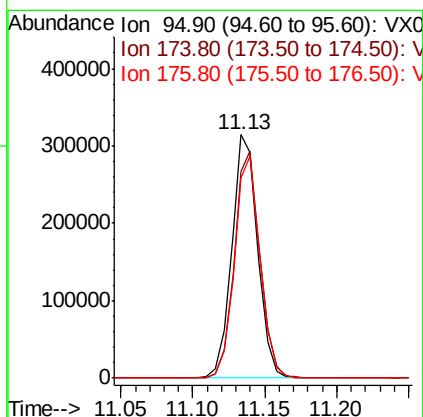
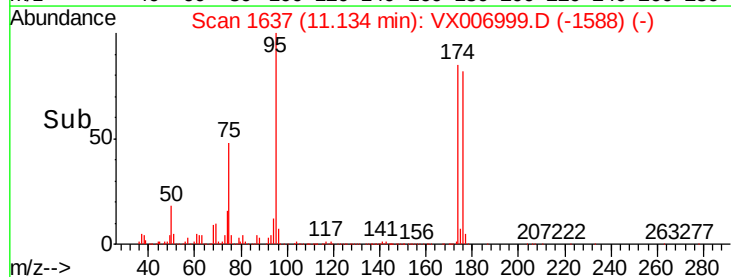
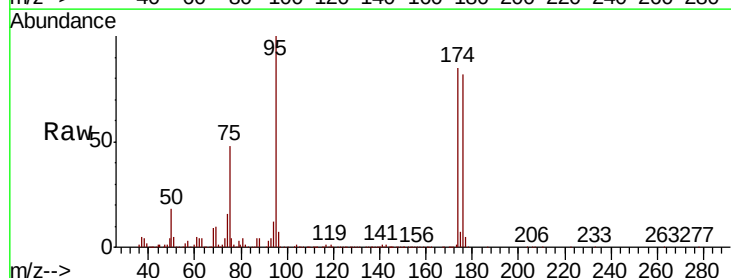
Tgt Ion: 95 Resp: 395457

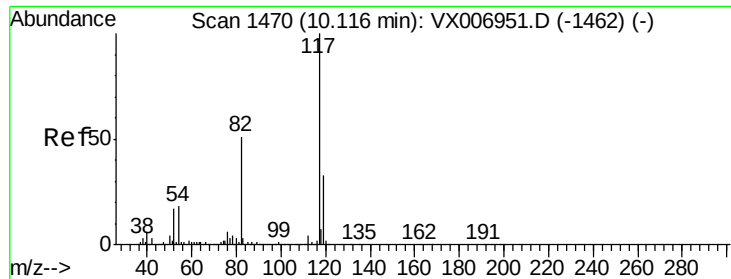
Ion Ratio Lower Upper

95 100

174 91.7 0.0 182.2

176 89.9 0.0 178.8

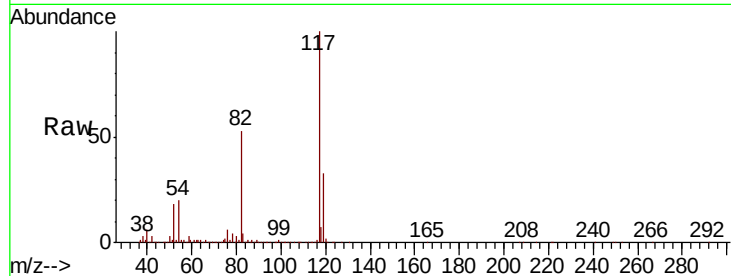




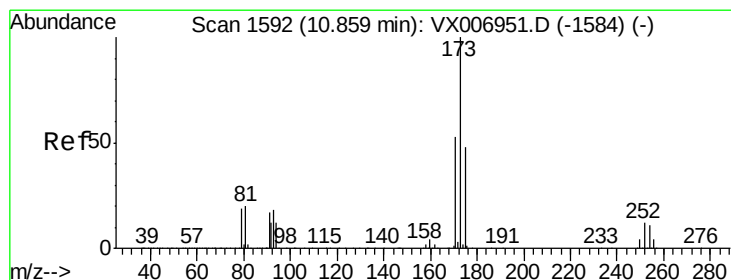
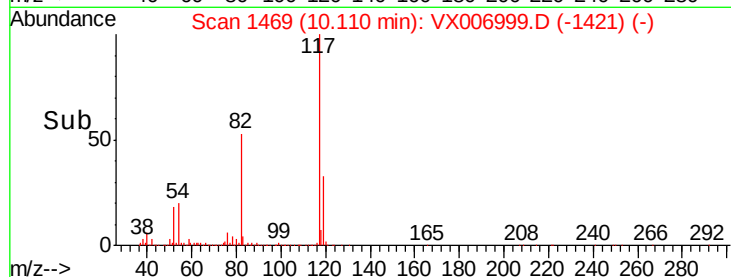
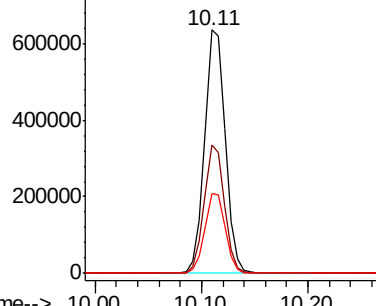
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX006999.D
Acq: 10 Jan 2019 19:20

Instrument :
MSVOA_X
ClientSampleId :
SU-03-010918-A

Tgt Ion:117 Resp: 872736
Ion Ratio Lower Upper
117 100
82 52.9 41.0 61.6
119 32.9 25.4 38.0

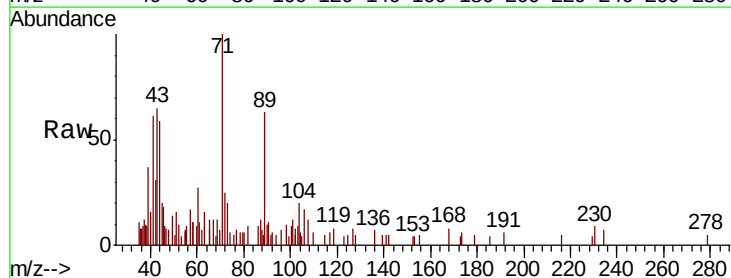


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

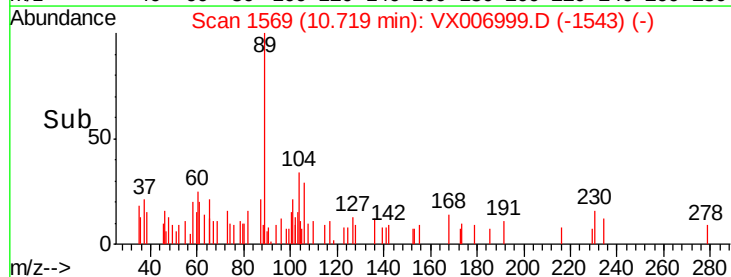
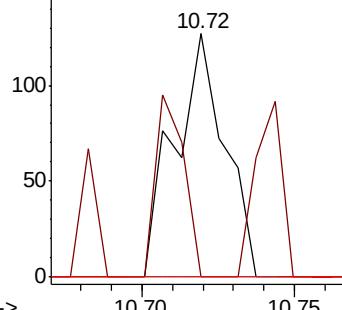


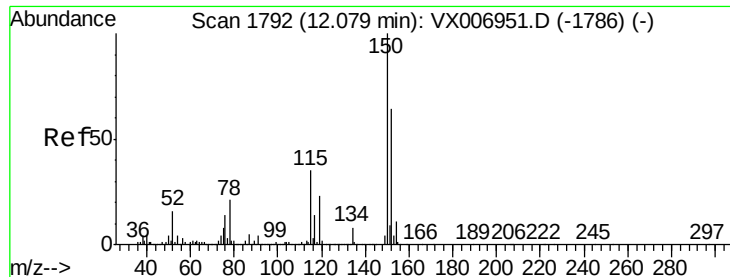
#71
Bromoform
Concen: 4.750 ug/l
RT: 10.72 min Scan# 1569
Delta R.T. -0.14 min
Lab File: VX006999.D
Acq: 10 Jan 2019 19:20

Tgt Ion:173 Resp: 144
Ion Ratio Lower Upper
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



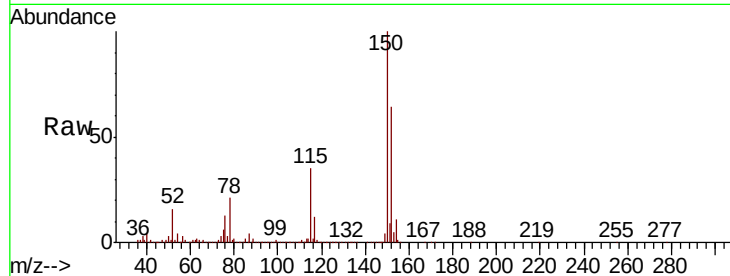


#72

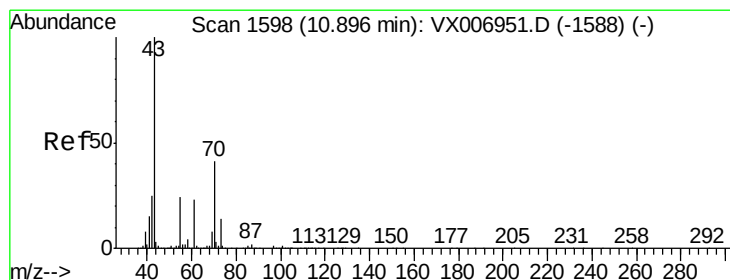
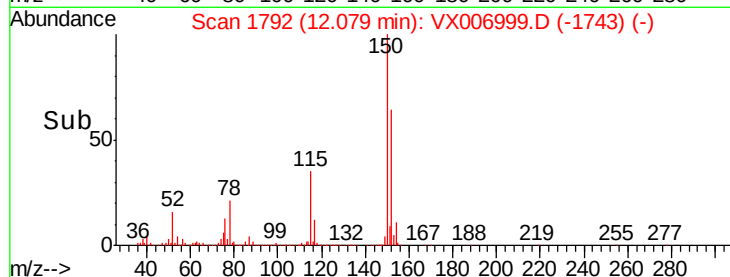
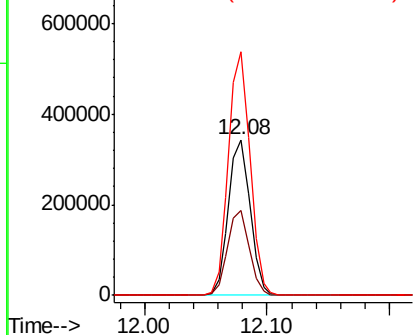
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006999.D
Acq: 10 Jan 2019 19:20

Instrument :
MSVOA_X
ClientSampleId :
SU-03-010918-A

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.4	39.1	117.2
150	155.3	0.0	344.8



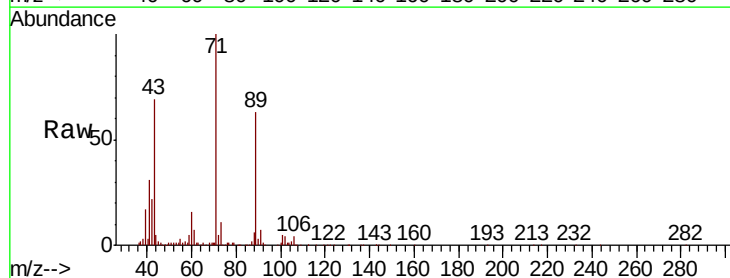
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



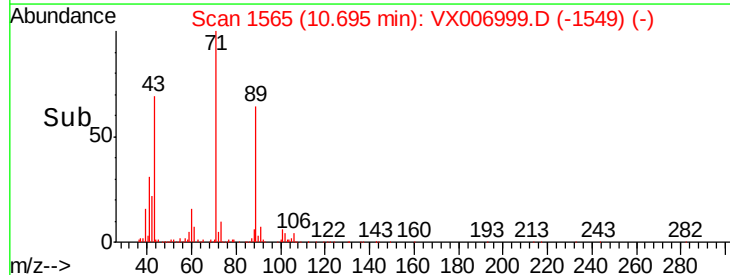
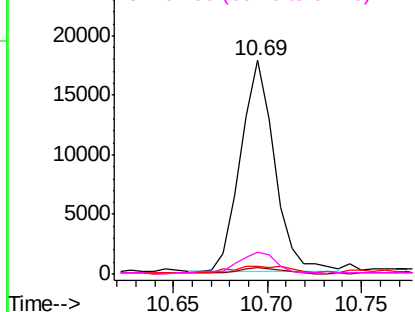
#74

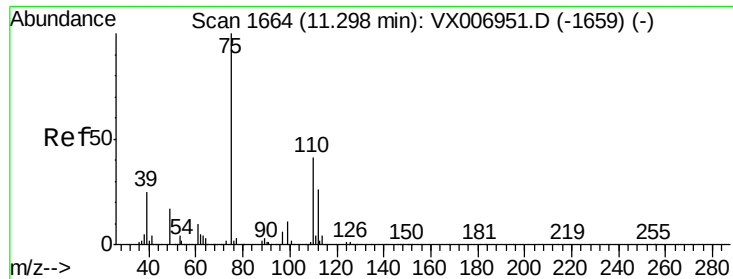
N-ethyl acetate
Concen: 1.857 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.20 min
Lab File: VX006999.D
Acq: 10 Jan 2019 19:20

Tgt Ion	Ratio	Lower	Upper
43	100		
70	3.9	35.8	53.8#
55	5.9	19.4	29.0#
61	12.4	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: 22.073 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006999.D

Acq: 10 Jan 2019 19:20

Instrument :

MSVOA_X

ClientSampleId :

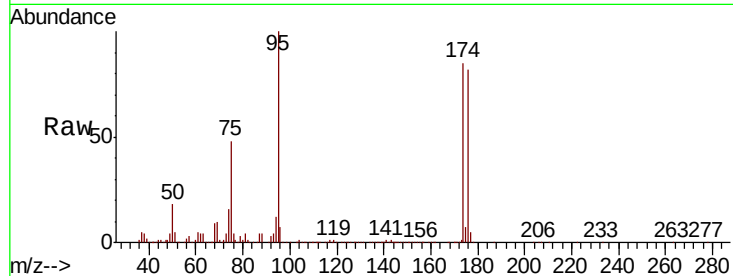
SU-03-010918-A

Tgt Ion: 75 Resp: 189198

Ion Ratio Lower Upper

75 100

77 1.5 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

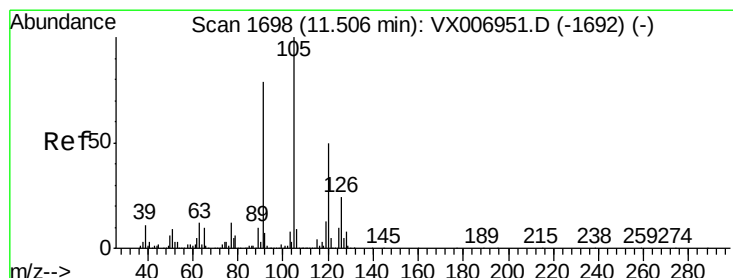
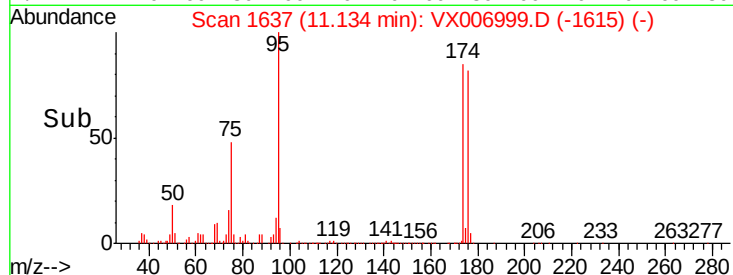
150000

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.362 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX006999.D

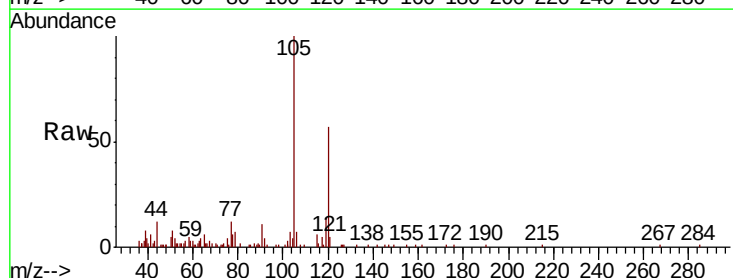
Acq: 10 Jan 2019 19:20

Tgt Ion: 105 Resp: 9029

Ion Ratio Lower Upper

105 100

120 54.3 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.51

8000

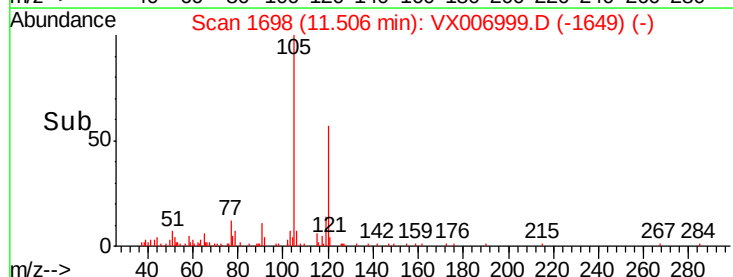
6000

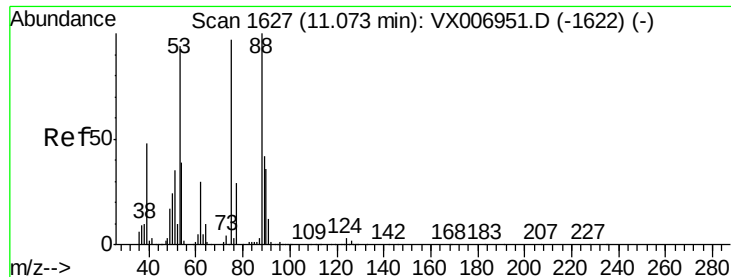
4000

2000

0

Time-->

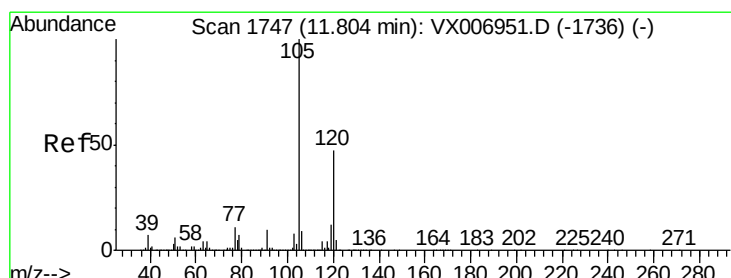
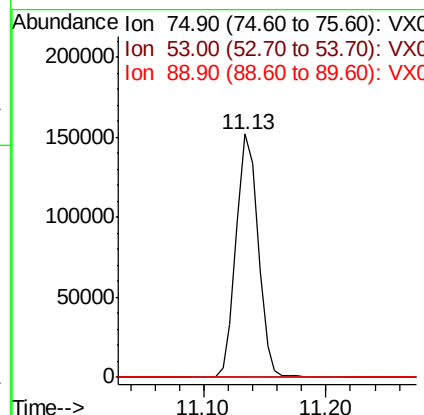
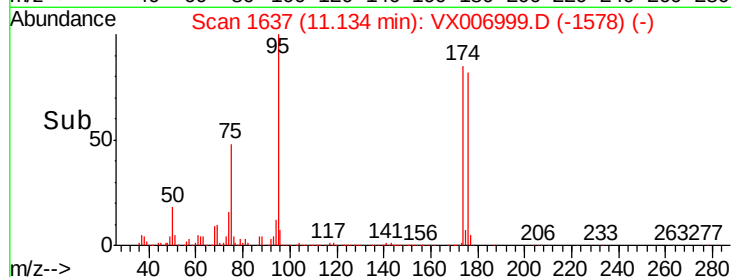
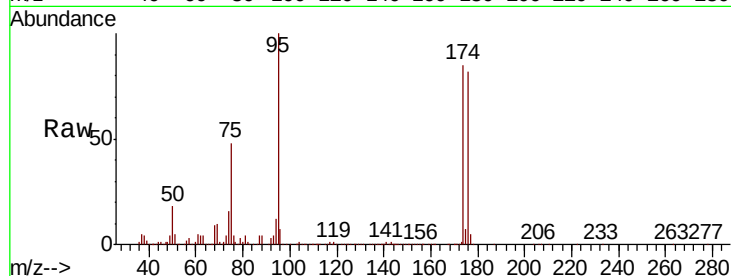




#81
trans-1,4-Dichloro-2-butene
Concen: 65.355 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX006999.D
Acq: 10 Jan 2019 19:20

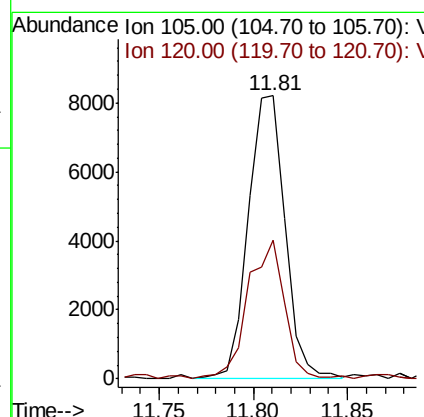
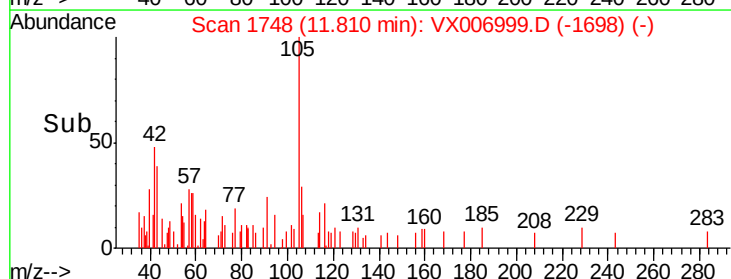
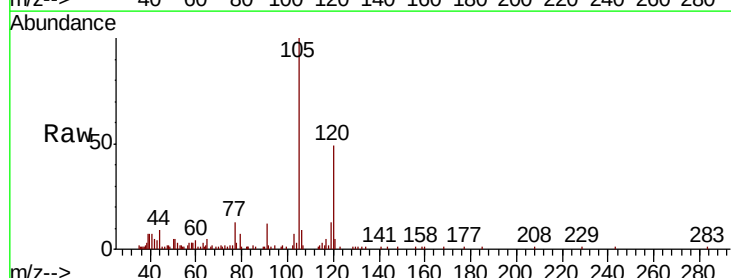
Instrument :
MSVOA_X
ClientSampleId :
SU-03-010918-A

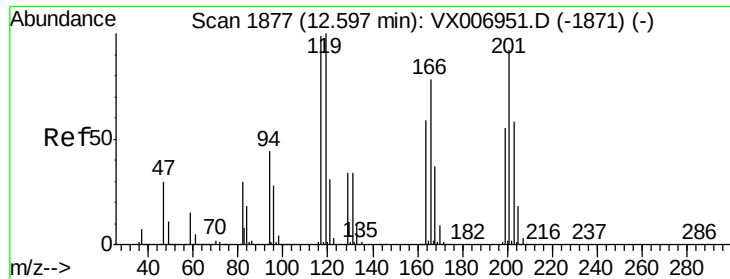
Tgt Ion: 75 Resp: 189198
Ion Ratio Lower Upper
75 100
53 0.3 79.7 119.5#
89 0.0 38.0 57.0#



#84
1,2,4-Trimethylbenzene
Concen: 0.445 ug/l
RT: 11.81 min Scan# 1748
Delta R.T. 0.01 min
Lab File: VX006999.D
Acq: 10 Jan 2019 19:20

Tgt Ion: 105 Resp: 11162
Ion Ratio Lower Upper
105 100
120 48.8 23.2 69.6





#90

Hexachloroethane

Concen: 3.111 ug/l

RT: 12.60 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VX006999.D

Acq: 10 Jan 2019 19:20

Instrument :

MSVOA_X

ClientSampleId :

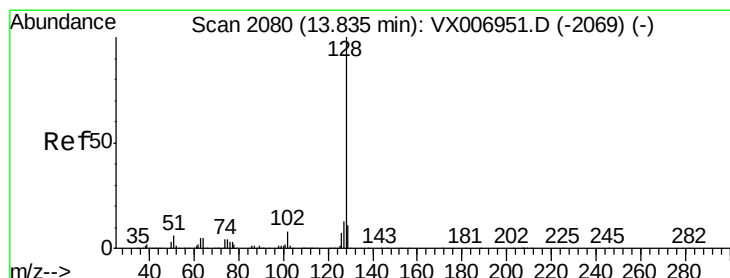
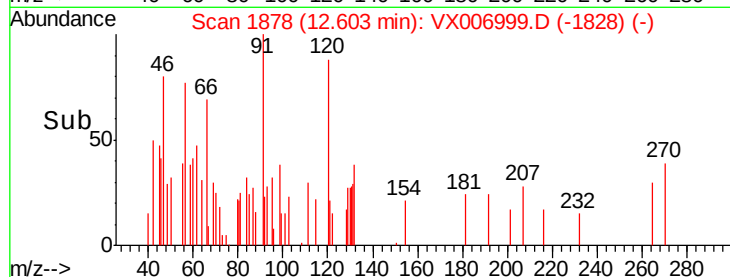
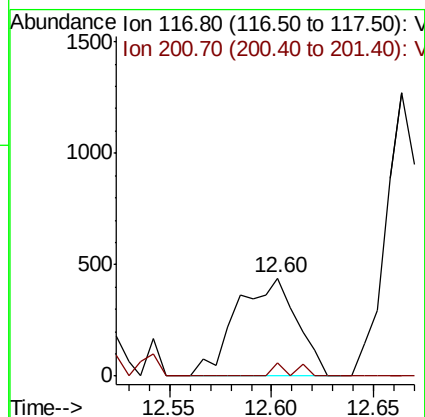
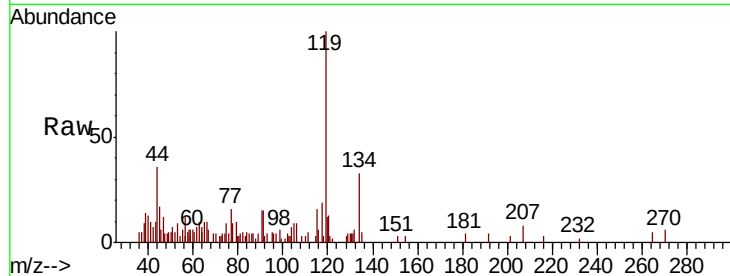
SU-03-010918-A

Tgt Ion:117 Resp: 911

Ion Ratio Lower Upper

117 100

201 4.4 42.9 128.7#



#95

Naphthalene

Concen: 1.329 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX006999.D

Acq: 10 Jan 2019 19:20

Tgt Ion:128 Resp: 40504

Ion Ratio Lower Upper

128 100

127 14.1 10.1 15.1

129 11.9 8.6 13.0

