

Data Path : W:\HPCHEM1\MSVOA_X\DATA\WX050818\
 Data File : VX001518.D
 Acq On : 08 May 2018 17:07
 Operator : JC/MD
 Sample : J2644-09RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RO-160

Quant Time: May 09 06:46:02 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M
 Quant Title : SW846 8260
 QLast Update : Sun May 06 07:59:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	244753	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	337195	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	292855	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	161672	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	198776	56.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.00%	
35) Dibromofluoromethane	5.51	113	153139	51.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.12%	
50) Toluene-d8	8.72	98	509414	46.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.06%	
62) 4-Bromofluorobenzene	11.14	95	165459	39.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.74%	

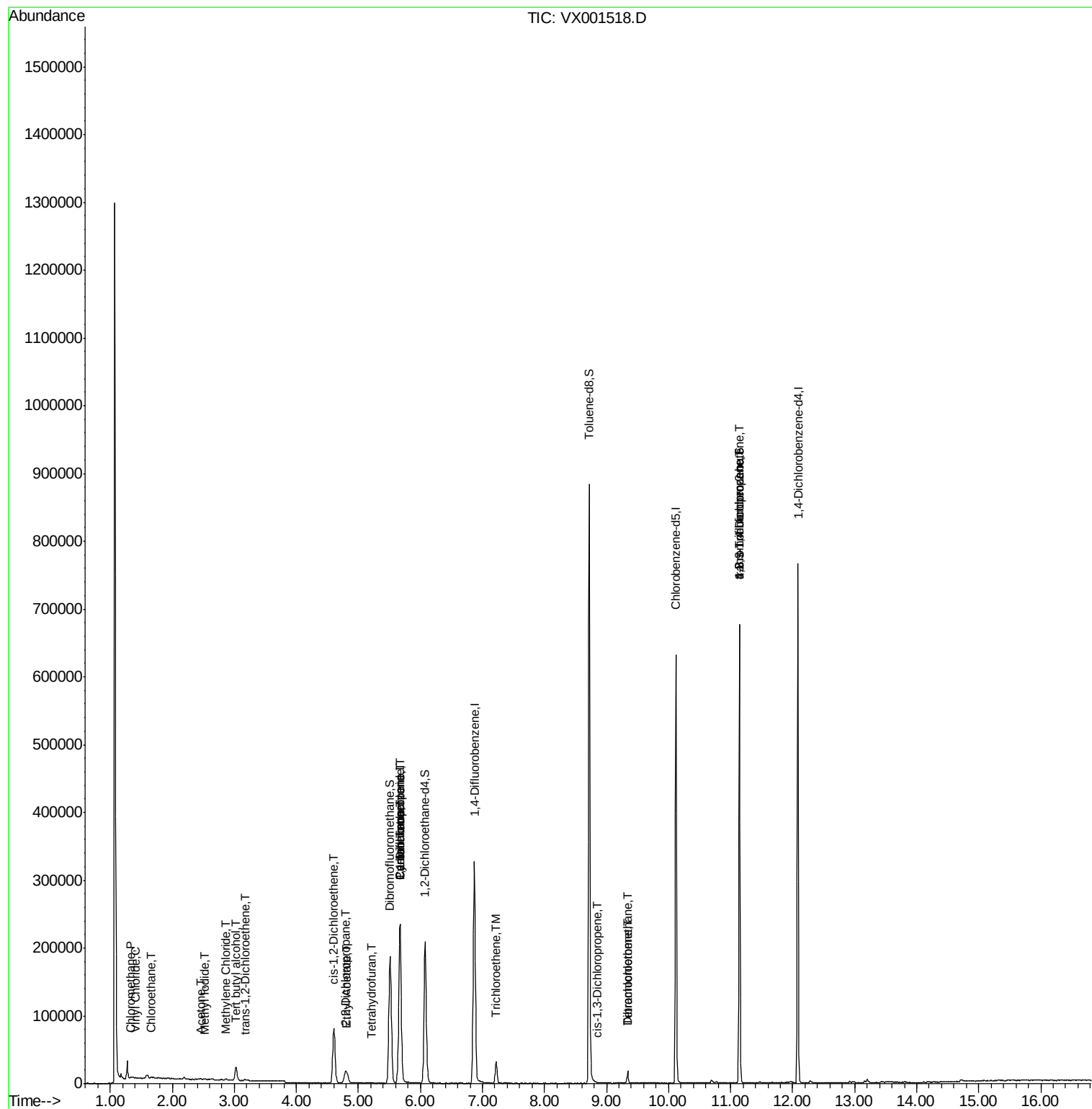
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	816	0.25	ug/l #	88
4) Vinyl Chloride	1.40	62	930	0.28	ug/l	98
5) Bromomethane	1.65	94	920	Below Cal		93
6) Chloroethane	1.66	64	4291	1.94	ug/l #	50
10) Methyl Iodide	2.52	142	1405	0.33	ug/l	95
11) Tert butyl alcohol	3.03	59	11981	16.15	ug/l #	78
13) Acrolein	2.30	56	183	Below Cal		93
16) Acetone	2.45	43	2061	1.29	ug/l	92
20) Methylene Chloride	2.85	84	724	0.23	ug/l #	79
21) trans-1,2-Dichloroethene	3.17	96	628	0.21	ug/l #	87
26) 2,2-Dichloropropane	4.79	77	1524	0.37	ug/l #	53
27) cis-1,2-Dichloroethene	4.60	96	51414	15.97	ug/l	91
29) Tetrahydrofuran	5.20	42	448	0.30	ug/l #	58
31) Cyclohexane	5.67	56	4310	0.95	ug/l #	5
36) 1,1-Dichloropropene	5.67	75	15203	3.54	ug/l #	50
37) Ethyl Acetate	4.82	43	2539	0.54	ug/l #	69
38) Carbon Tetrachloride	5.67	117	21485	4.70	ug/l #	17
44) Trichloroethene	7.22	130	12932	3.38	ug/l	98
54) cis-1,3-Dichloropropene	8.85	75	20	2.27	ug/l #	20
60) Dibromochloromethane	9.34	129	3188	0.94	ug/l #	11
64) Tetrachloroethene	9.34	164	3756	0.92	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	83123	25.35	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	83123	78.18	ug/l #	7

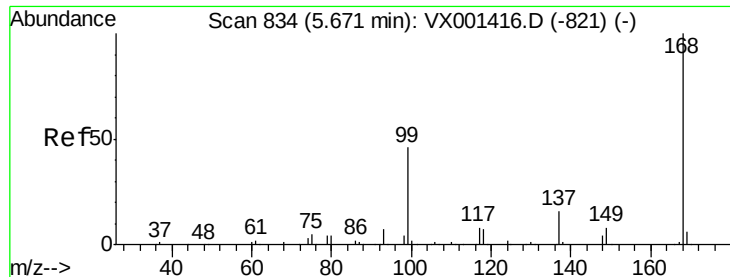
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX050818\
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Acq On : 08 May 2018 17:07
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Instrument :
MSVOA_X
ClientSampleId :
RO-160

Quant Time: May 09 06:46:02 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M
Quant Title : SW846 8260
QLast Update : Sun May 06 07:59:25 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001518.D

Acq: 08 May 2018 17:07

Instrument :

MSVOA_X

ClientSampleId :

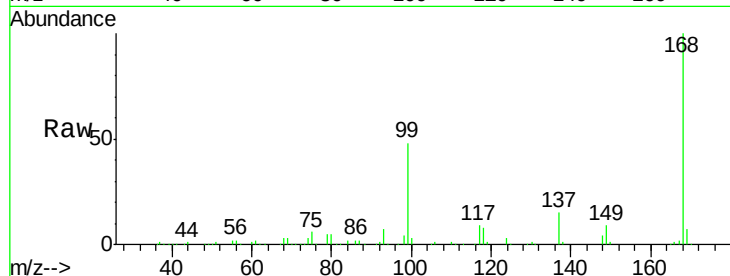
RO-160

Tgt Ion:168 Resp: 244753

Ion Ratio Lower Upper

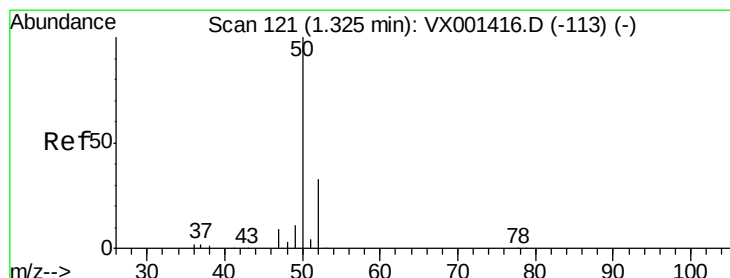
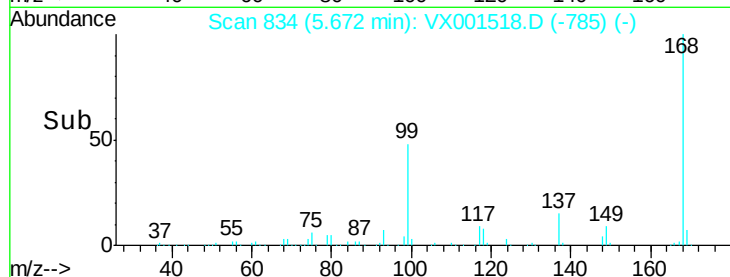
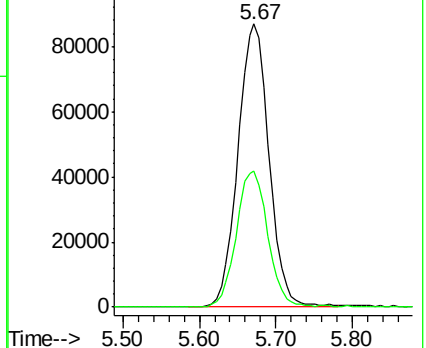
168 100

99 48.1 36.6 54.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.25 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX001518.D

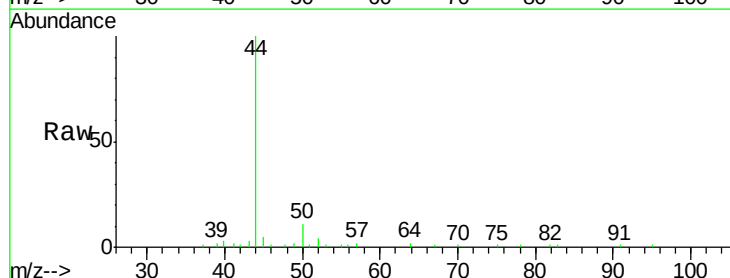
Acq: 08 May 2018 17:07

Tgt Ion: 50 Resp: 816

Ion Ratio Lower Upper

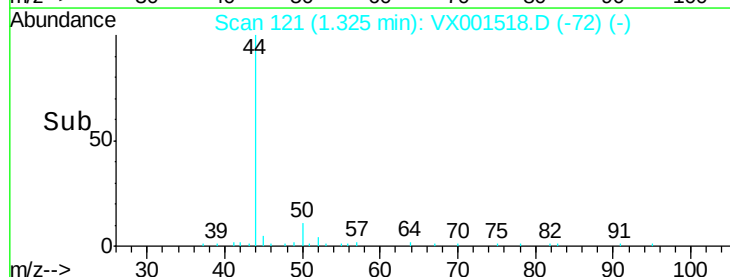
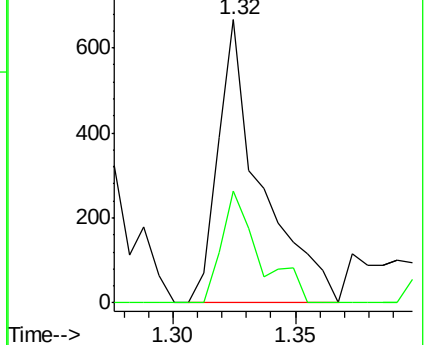
50 100

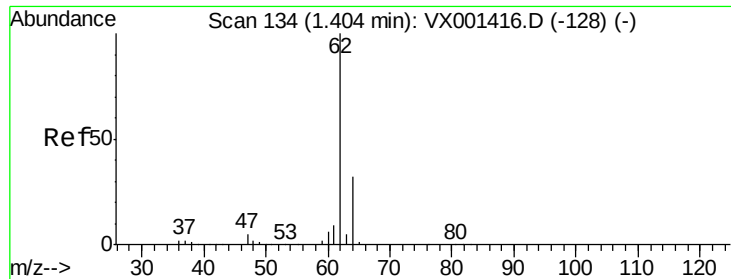
52 39.6 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.28 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX001518.D

Acq: 08 May 2018 17:07

Instrument :

MSVOA_X

ClientSampled :

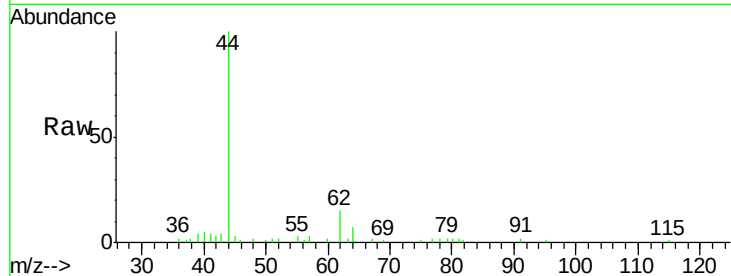
RO-160

Tgt Ion: 62 Resp: 930

Ion Ratio Lower Upper

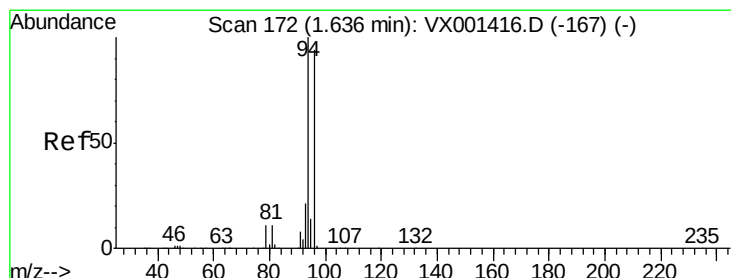
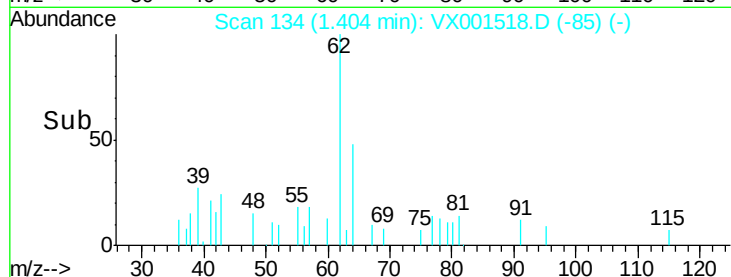
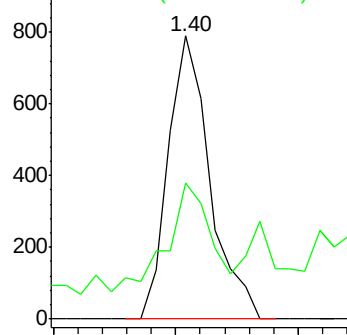
62 100

64 33.6 25.8 38.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001518.D

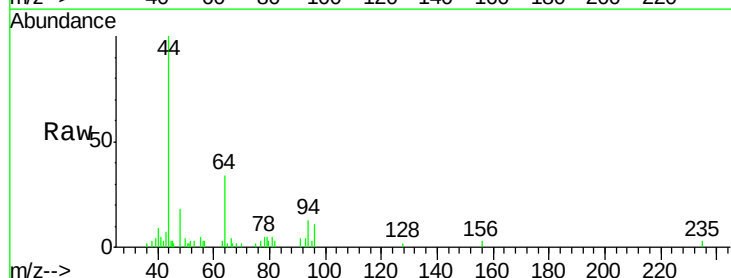
Acq: 08 May 2018 17:07

Tgt Ion: 94 Resp: 920

Ion Ratio Lower Upper

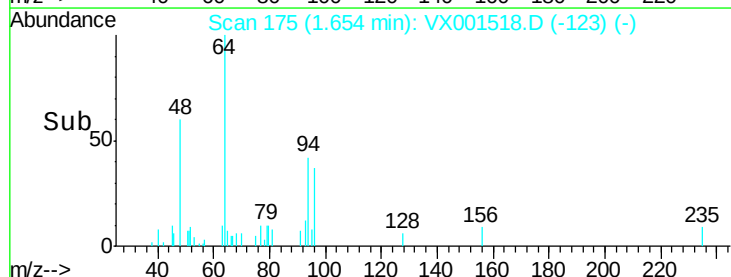
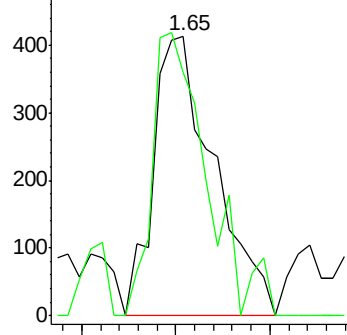
94 100

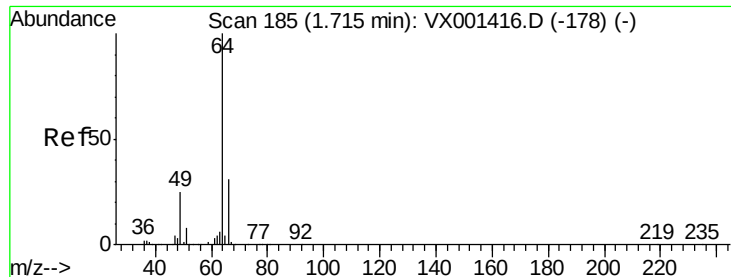
96 87.0 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.94 ug/l

RT: 1.66 min Scan# 176

Delta R.T. -0.05 min

Lab File: VX001518.D

Acq: 08 May 2018 17:07

Instrument :

MSVOA_X

ClientSampled :

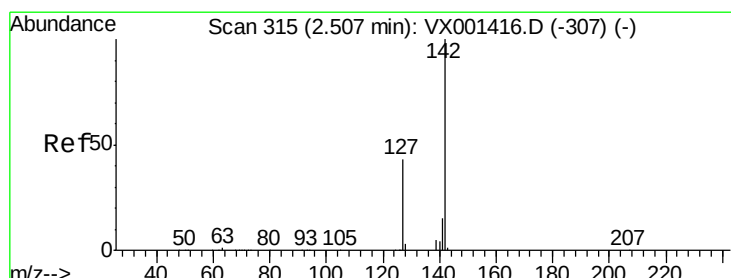
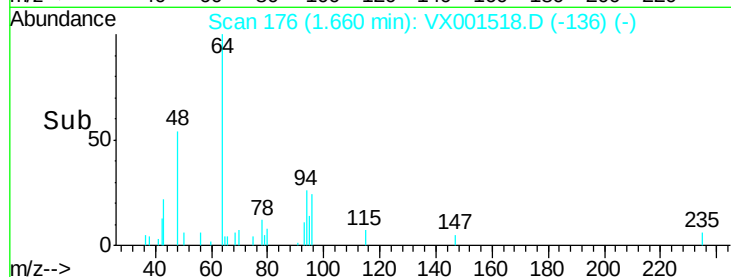
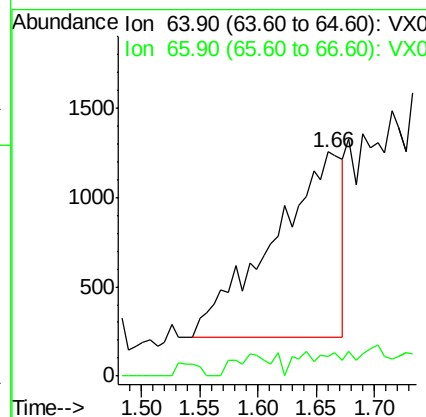
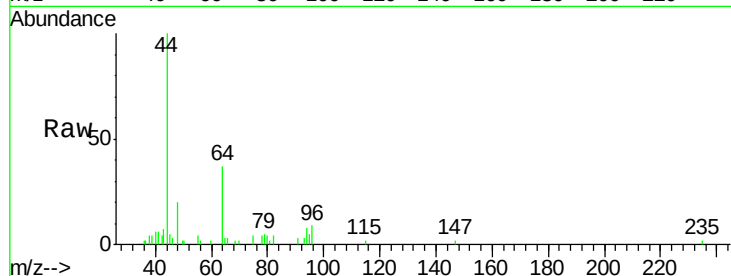
RO-160

Tgt Ion: 64 Resp: 4291

Ion Ratio Lower Upper

64 100

66 3.8 25.1 37.7#



#10

Methyl Iodide

Concen: 0.33 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001518.D

Acq: 08 May 2018 17:07

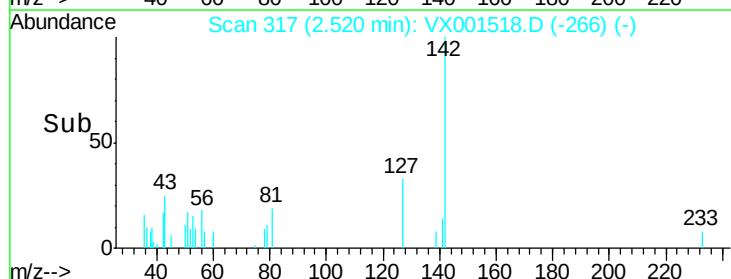
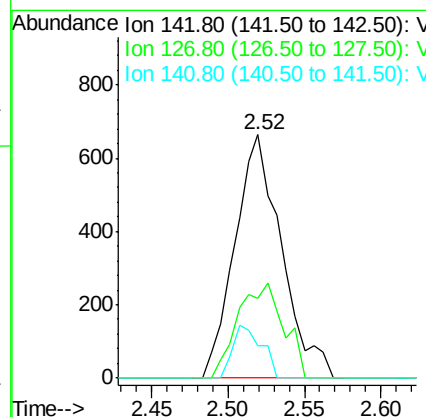
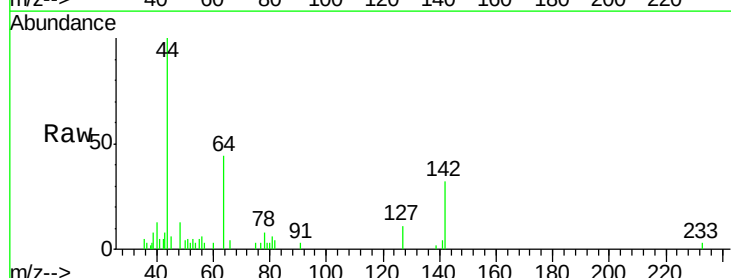
Tgt Ion: 142 Resp: 1405

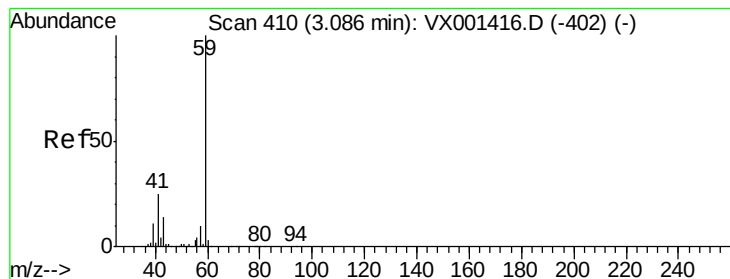
Ion Ratio Lower Upper

142 100

127 38.3 33.6 50.4

141 13.3 11.4 17.2





#11

Tert butyl alcohol

Concen: 16.15 ug/l

RT: 3.03 min Scan# 400

Delta R.T. -0.06 min

Lab File: VX001518.D

Acq: 08 May 2018 17:07

Instrument :

MSVOA_X

ClientSampled :

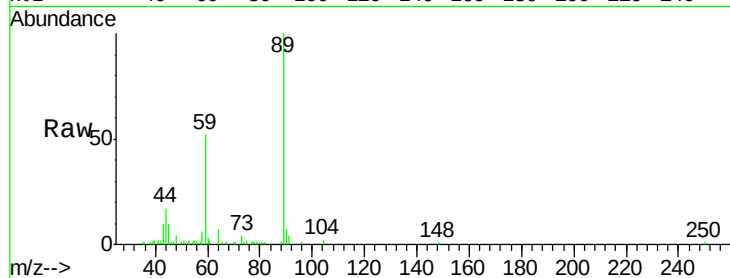
RO-160

Tgt Ion: 59 Resp: 11981

Ion Ratio Lower Upper

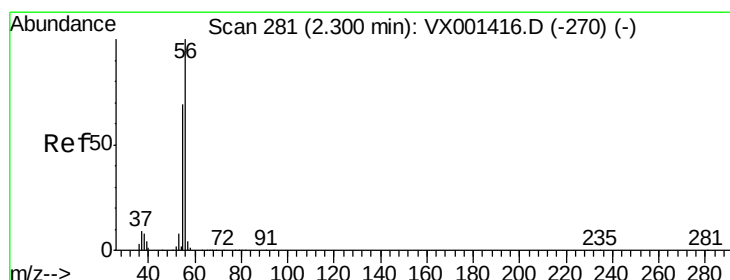
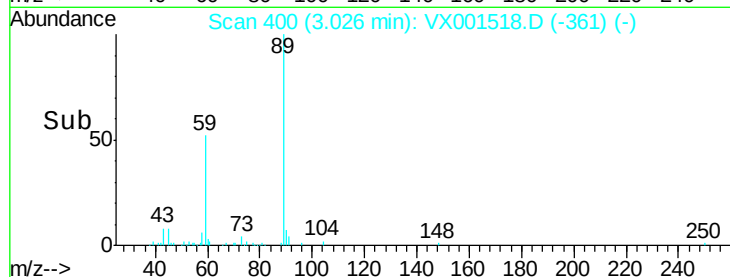
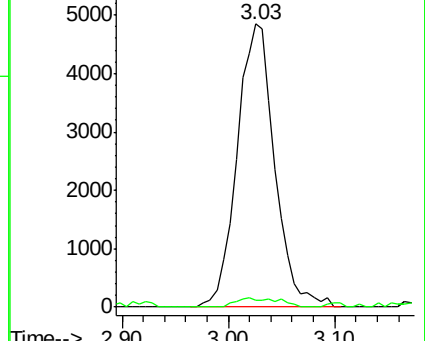
59 100

57 2.1 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX001518.D

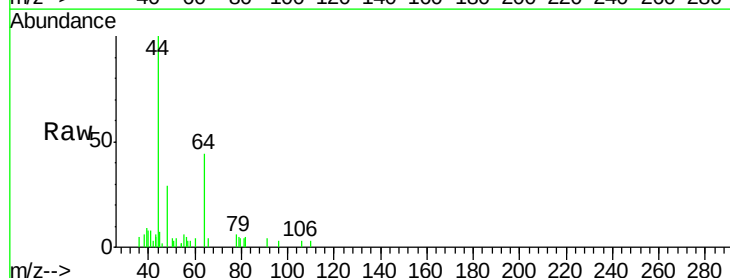
Acq: 08 May 2018 17:07

Tgt Ion: 56 Resp: 183

Ion Ratio Lower Upper

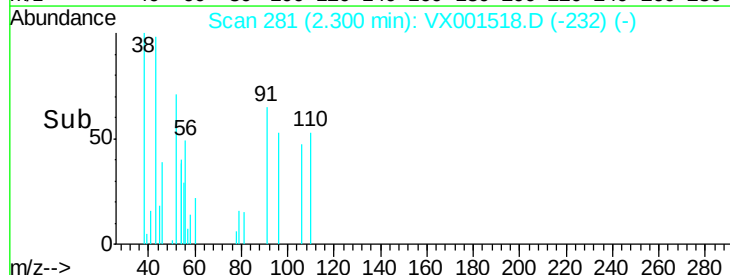
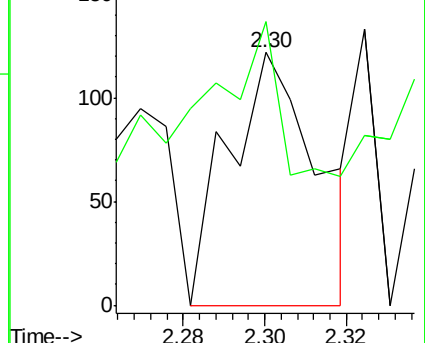
56 100

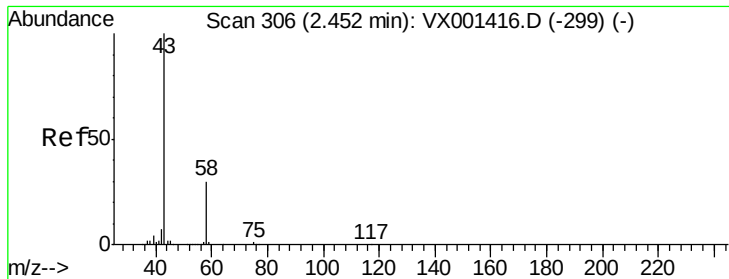
55 62.8 54.5 81.7



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

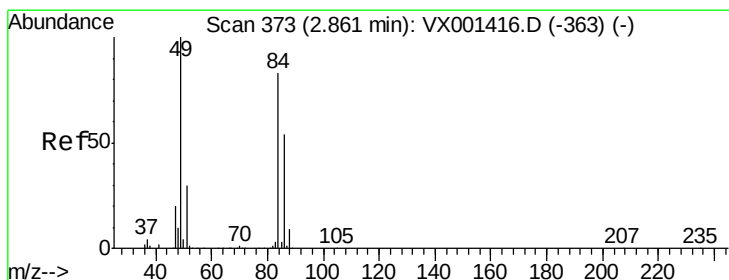
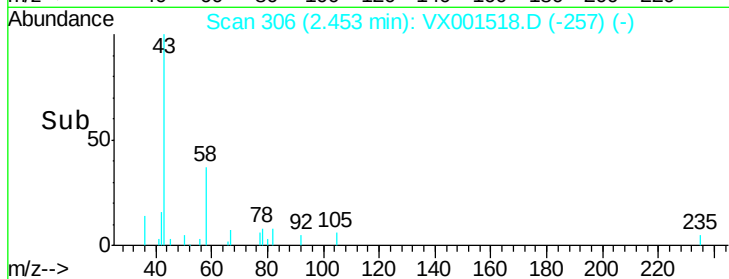
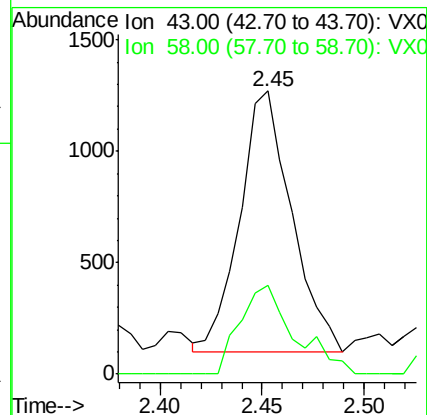
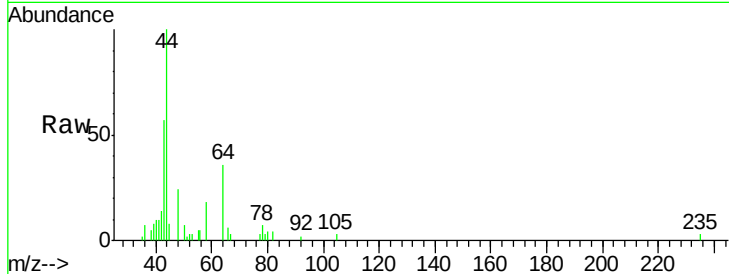




#16
Acetone
Concen: 1.29 ug/l
RT: 2.45 min Scan# 306
Delta R.T. 0.00 min
Lab File: VX001518.D
Acq: 08 May 2018 17:07

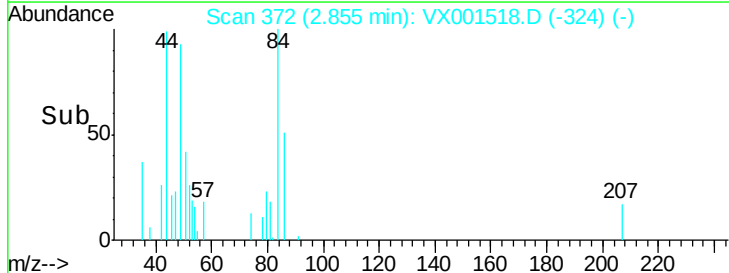
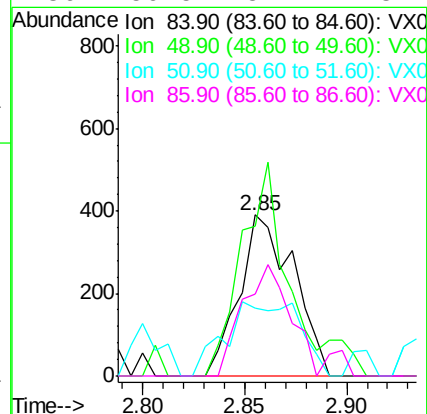
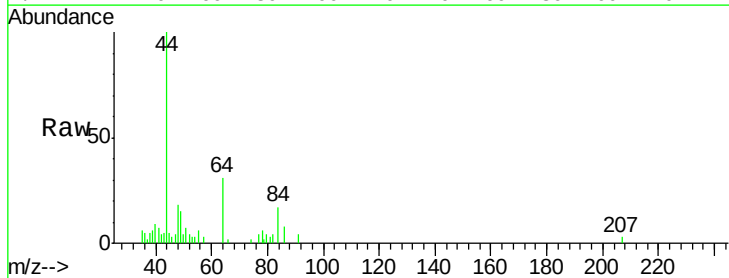
Instrument :
MSVOA_X
ClientSampled :
RO-160

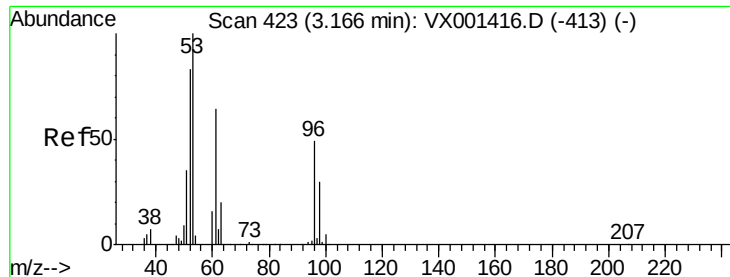
Tgt Ion: 43 Resp: 2061
Ion Ratio Lower Upper
43 100
58 34.2 23.8 35.8



#20
Methylene Chloride
Concen: 0.23 ug/l
RT: 2.85 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX001518.D
Acq: 08 May 2018 17:07

Tgt Ion: 84 Resp: 724
Ion Ratio Lower Upper
84 100
49 92.8 96.6 144.8#
51 41.8 29.0 43.4
86 50.5 52.2 78.4#





#21

trans-1,2-Dichloroethene

Concen: 0.21 ug/l

RT: 3.17 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX001518.D

Acq: 08 May 2018 17:07

Instrument :

MSVOA_X

ClientSampled :

RO-160

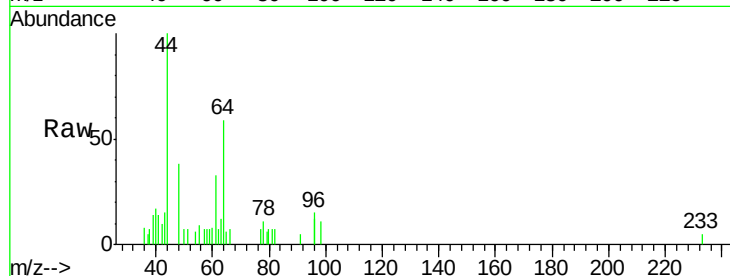
Tgt Ion: 96 Resp: 628

Ion Ratio Lower Upper

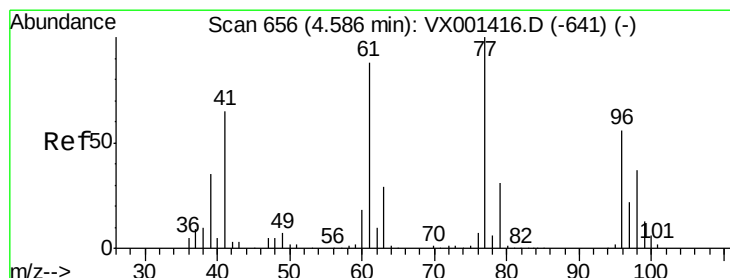
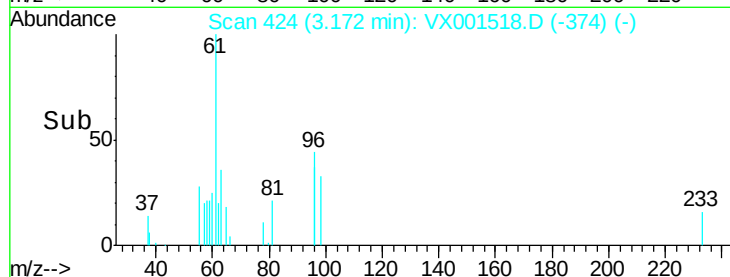
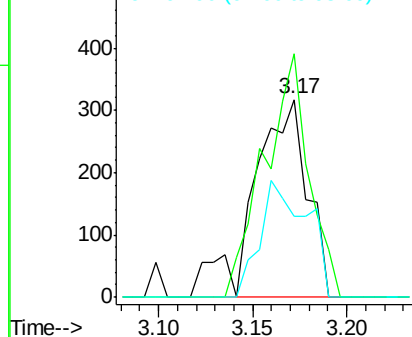
96 100

61 123.3 105.0 157.4

98 41.0 49.9 74.9#



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#26

2,2-Dichloropropane

Concen: 0.37 ug/l

RT: 4.79 min Scan# 690

Delta R.T. 0.21 min

Lab File: VX001518.D

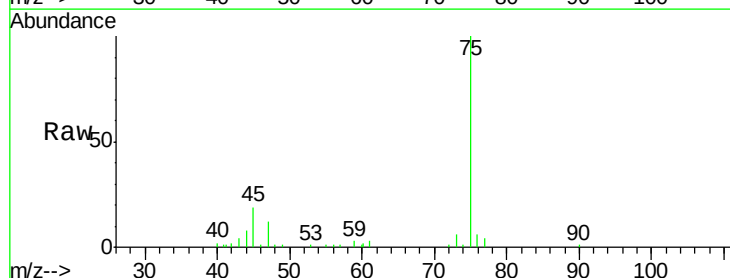
Acq: 08 May 2018 17:07

Tgt Ion: 77 Resp: 1524

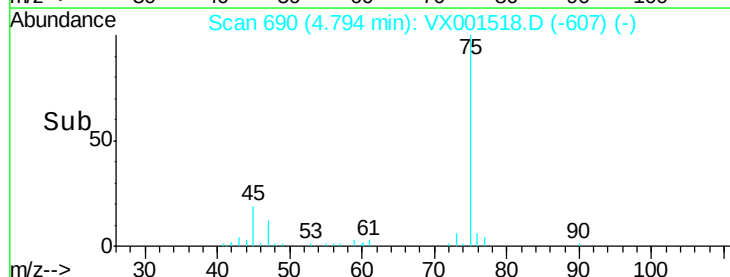
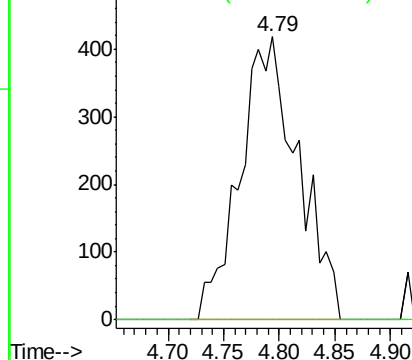
Ion Ratio Lower Upper

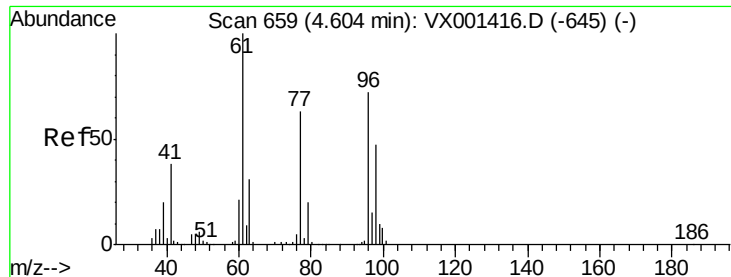
77 100

97 0.0 11.2 33.6#



Abundance Ion 76.90 (76.60 to 77.60): VX0
Ion 96.90 (96.60 to 97.60): VX0



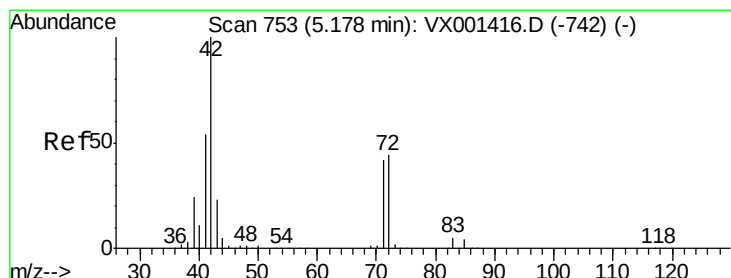
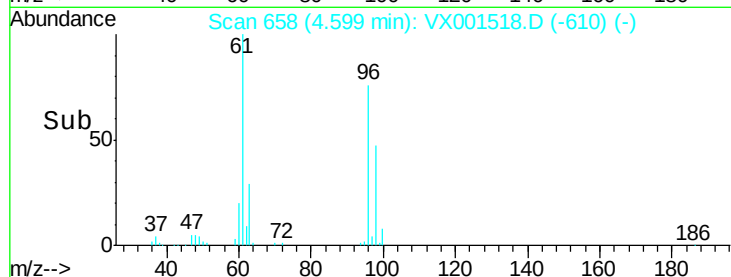
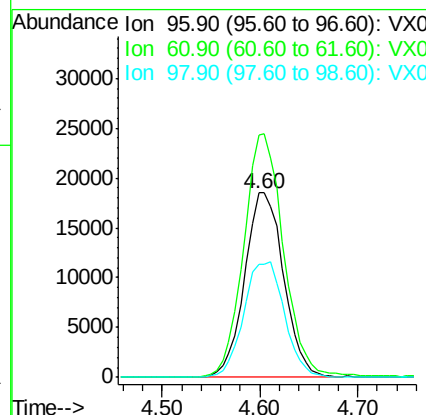
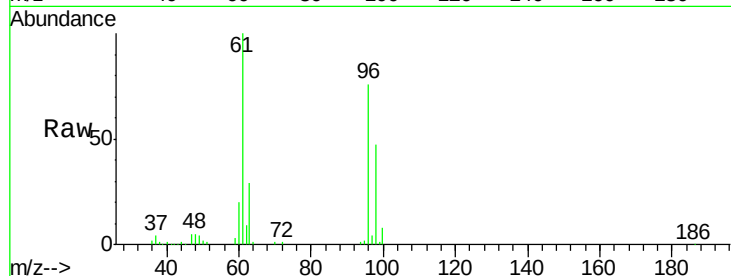


#27

cis-1,2-Dichloroethene
 Concen: 15.97 ug/l
 RT: 4.60 min Scan# 658
 Delta R.T. -0.01 min
 Lab File: VX001518.D
 Acq: 08 May 2018 17:07

Instrument :
 MSVOA_X
 ClientSampled :
 RO-160

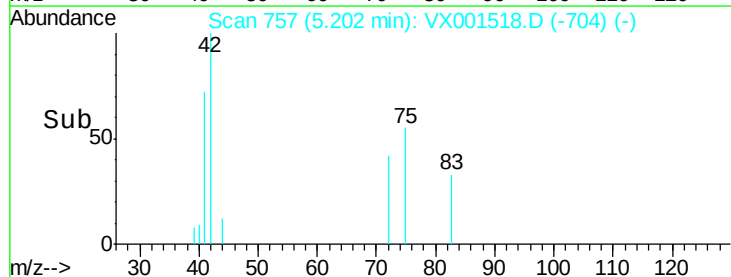
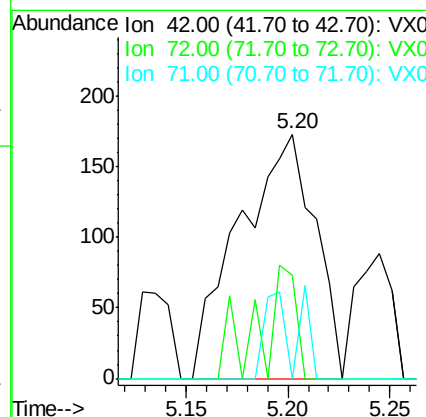
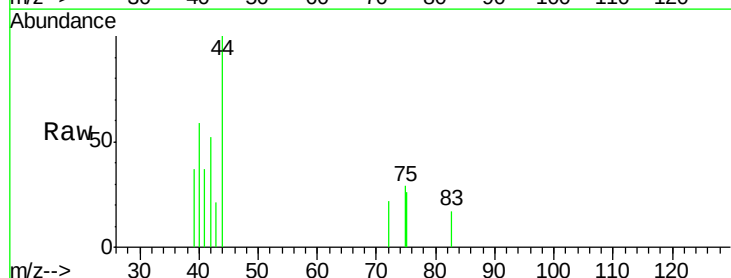
Tgt Ion: 96 Resp: 51414
 Ion Ratio Lower Upper
 96 100
 61 134.7 0.0 301.6
 98 65.3 0.0 131.6

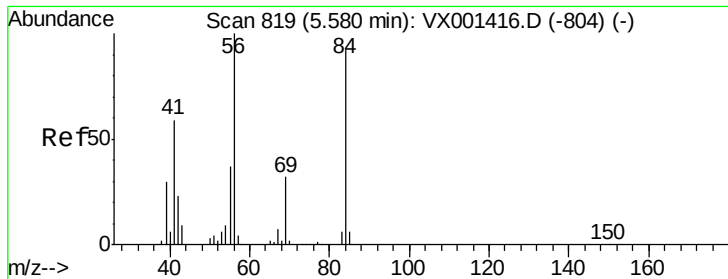


#29

Tetrahydrofuran
 Concen: 0.30 ug/l
 RT: 5.20 min Scan# 757
 Delta R.T. 0.02 min
 Lab File: VX001518.D
 Acq: 08 May 2018 17:07

Tgt Ion: 42 Resp: 448
 Ion Ratio Lower Upper
 42 100
 72 17.0 35.4 53.2#
 71 15.2 33.0 49.4#





#31

Cyclohexane

Concen: 0.95 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX001518.D

Acq: 08 May 2018 17:07

Instrument :

MSVOA_X

ClientSampled :

RO-160

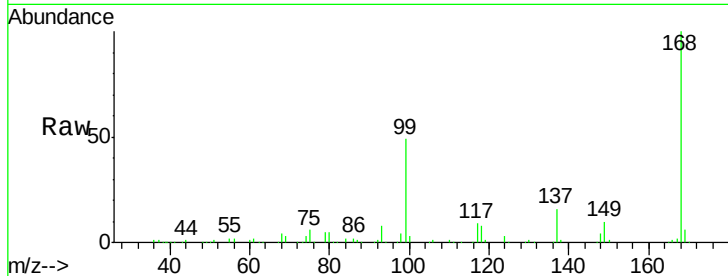
Tgt Ion: 56 Resp: 4310

Ion Ratio Lower Upper

56 100

69 168.6 25.4 38.0#

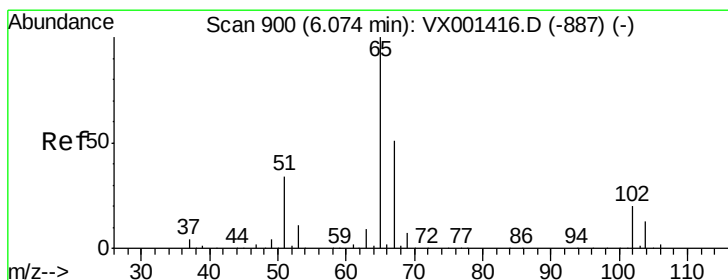
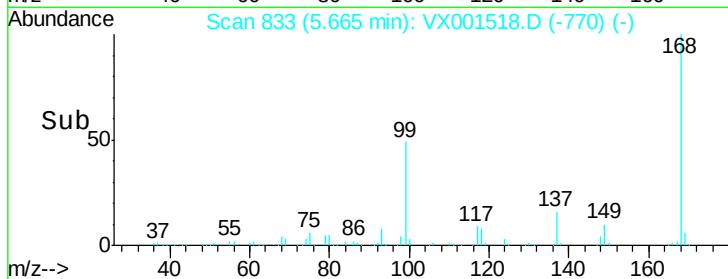
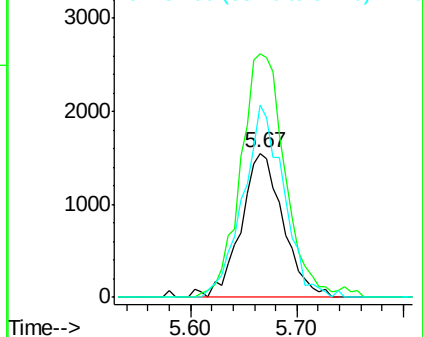
84 133.0 73.8 110.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 56.50 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001518.D

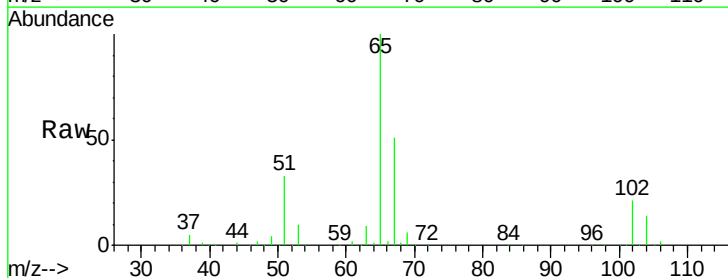
Acq: 08 May 2018 17:07

Tgt Ion: 65 Resp: 198776

Ion Ratio Lower Upper

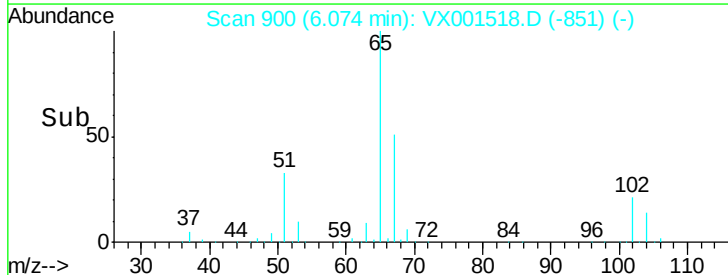
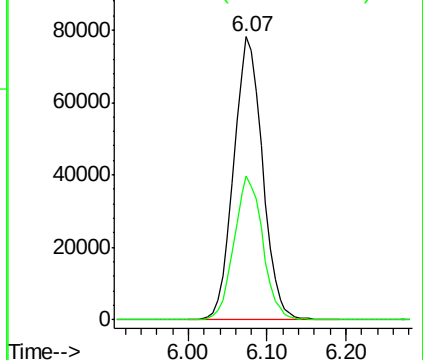
65 100

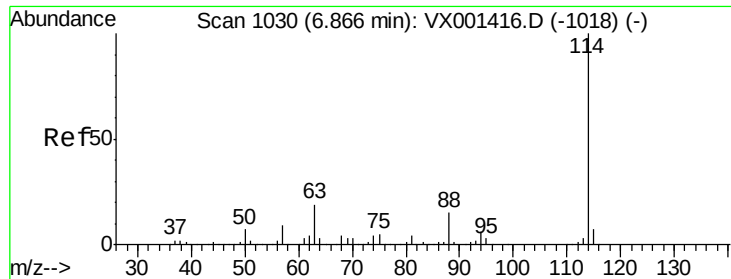
67 50.6 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX001518.D

Acq: 08 May 2018 17:07

Instrument :

MSVOA_X

ClientSampleId :

RO-160

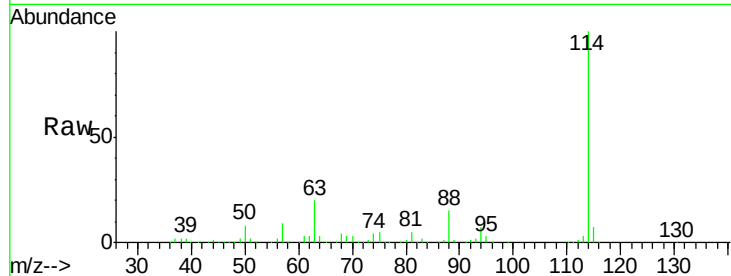
Tgt Ion:114 Resp: 337195

Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.6

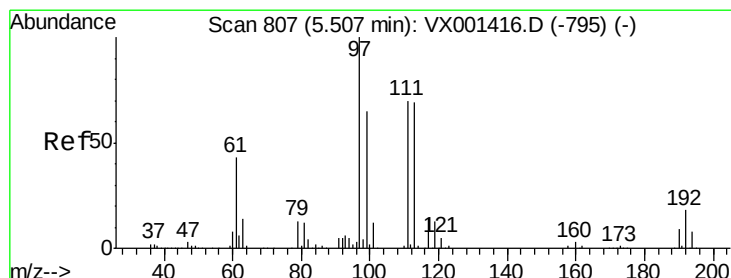
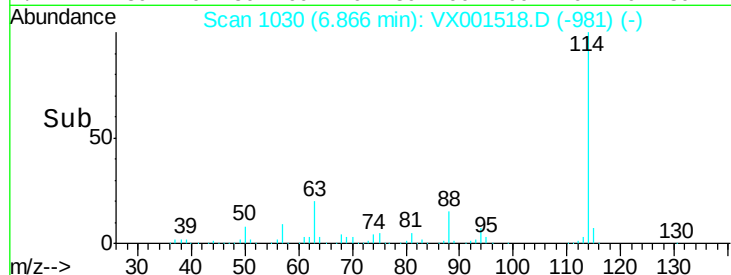
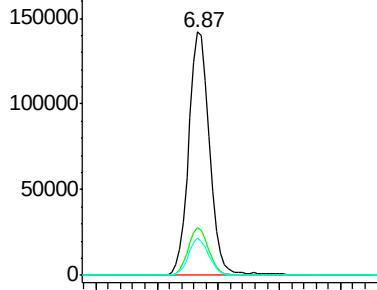
88 15.2 0.0 30.8



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: 51.06 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX001518.D

Acq: 08 May 2018 17:07

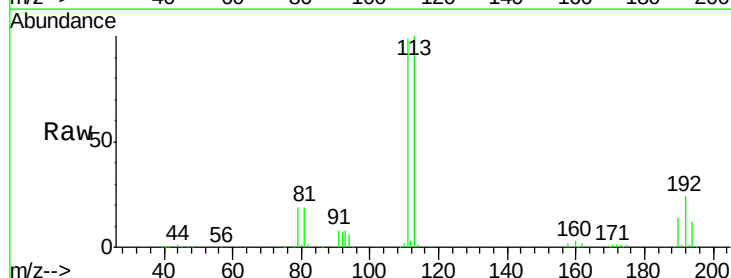
Tgt Ion:113 Resp: 153139

Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.2

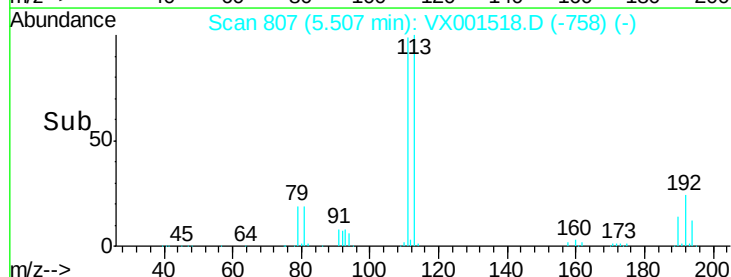
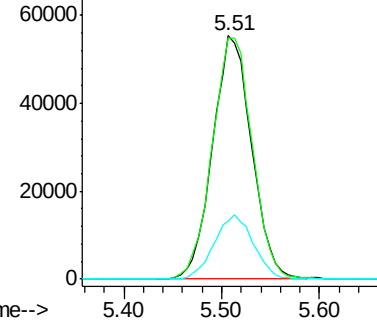
192 26.6 21.4 32.0

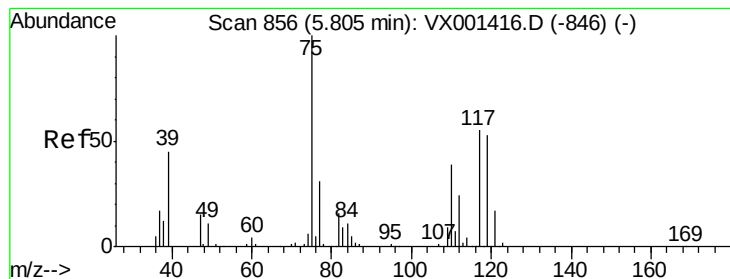


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.54 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX001518.D

Acq: 08 May 2018 17:07

Instrument :

MSVOA_X

ClientSampled :

RO-160

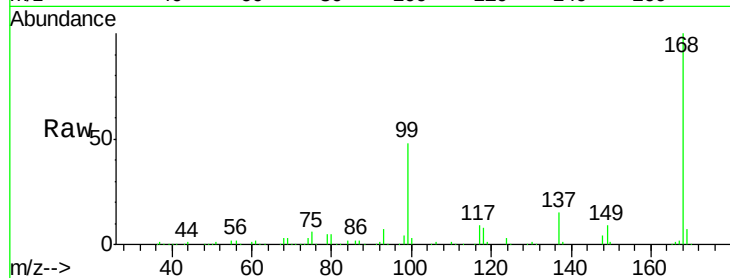
Tgt Ion: 75 Resp: 15203

Ion Ratio Lower Upper

75 100

110 10.7 18.9 56.7#

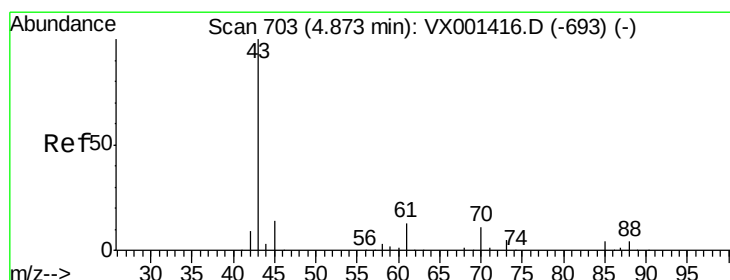
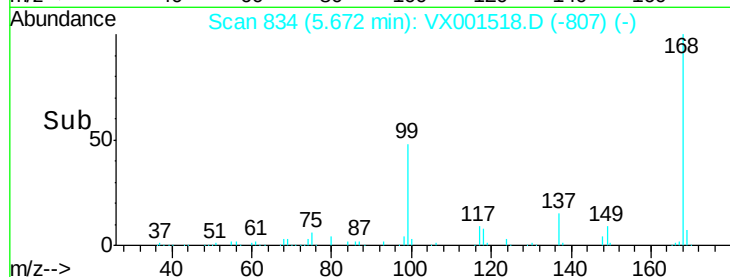
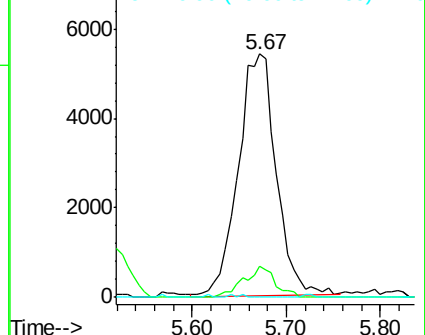
77 0.3 24.9 37.3#



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



#37

Ethyl Acetate

Concen: 0.54 ug/l

RT: 4.82 min Scan# 694

Delta R.T. -0.05 min

Lab File: VX001518.D

Acq: 08 May 2018 17:07

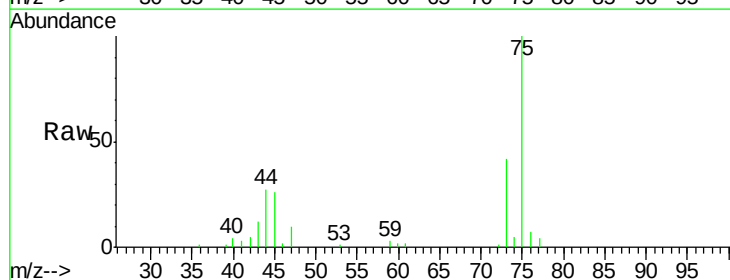
Tgt Ion: 43 Resp: 2539

Ion Ratio Lower Upper

43 100

61 0.0 10.7 16.1#

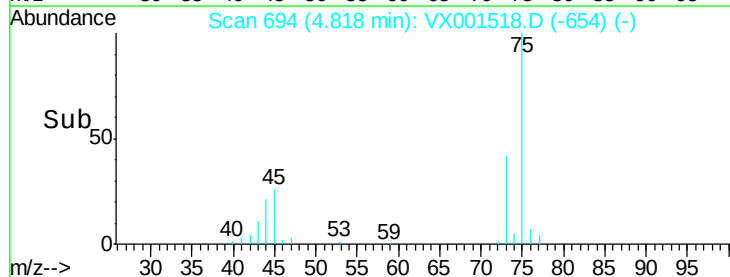
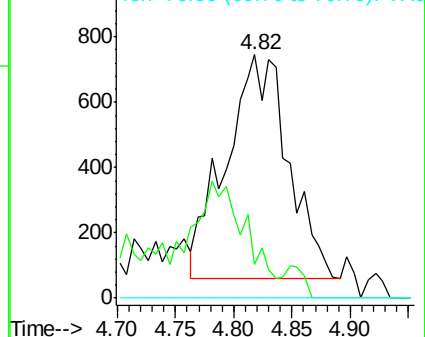
70 0.0 8.4 12.6#

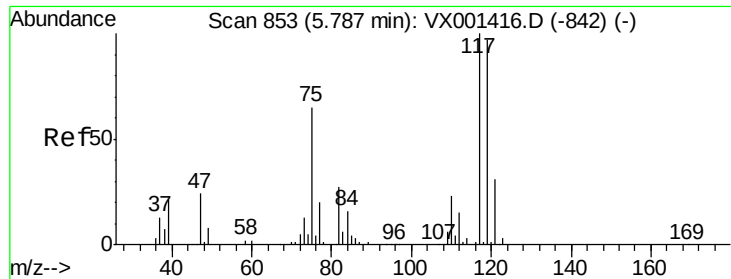


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0

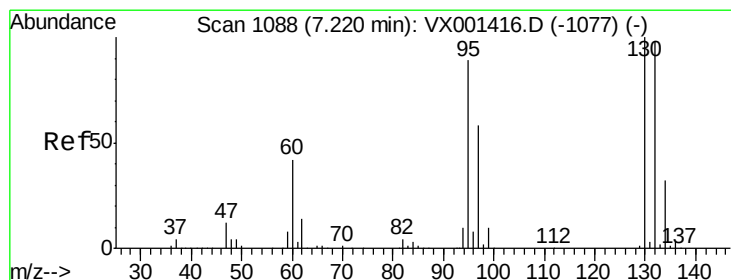
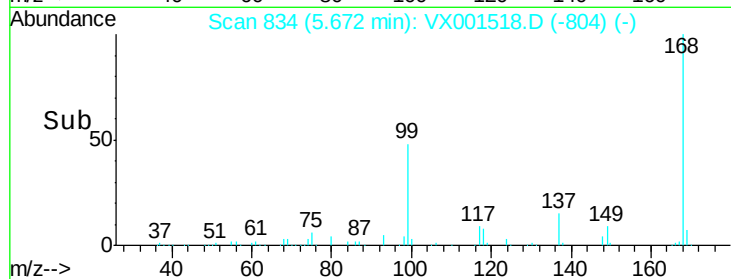
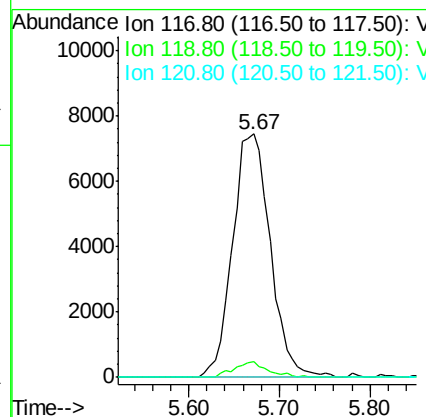
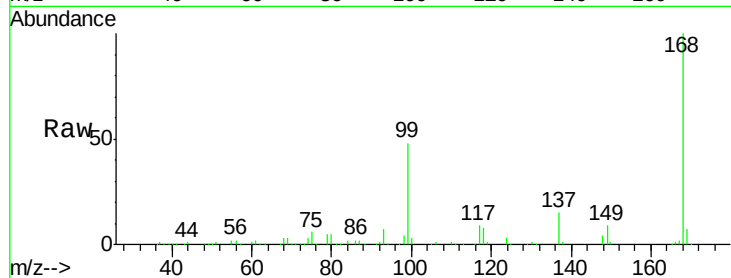




#38
Carbon Tetrachloride
Concen: 4.70 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.12 min
Lab File: VX001518.D
Acq: 08 May 2018 17:07

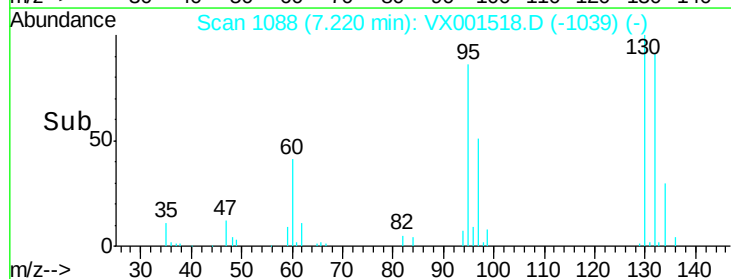
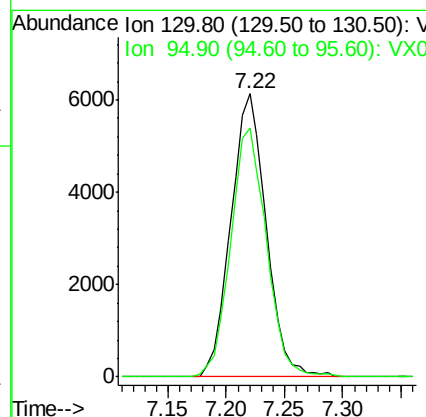
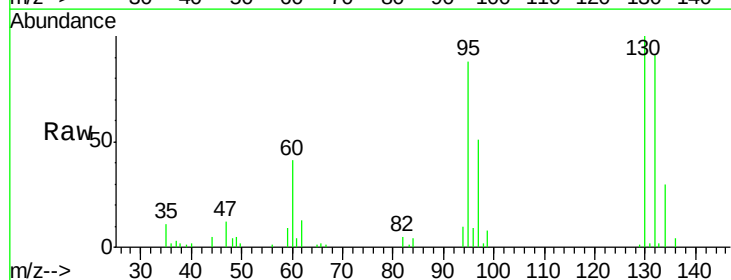
Instrument :
MSVOA_X
ClientSampled :
RO-160

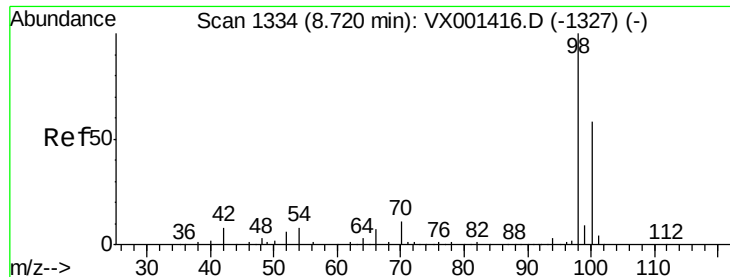
Tgt Ion:117 Resp: 21485
Ion Ratio Lower Upper
117 100
119 6.5 77.0 115.6#
121 0.0 25.1 37.7#



#44
Trichloroethene
Concen: 3.38 ug/l
RT: 7.22 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VX001518.D
Acq: 08 May 2018 17:07

Tgt Ion:130 Resp: 12932
Ion Ratio Lower Upper
130 100
95 87.7 0.0 178.4

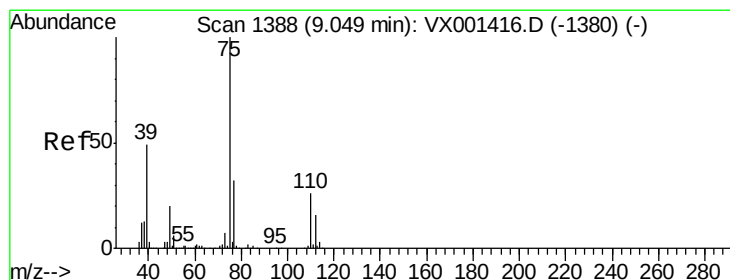
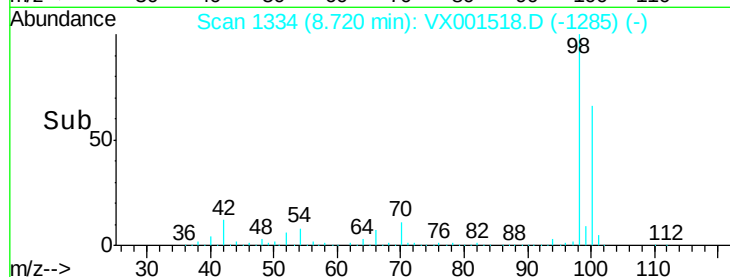
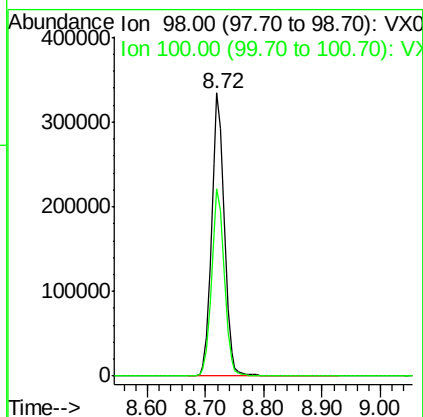
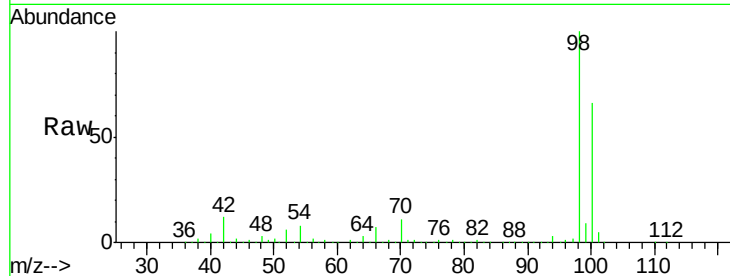




#50
Toluene-d8
Concen: 46.53 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX001518.D
Acq: 08 May 2018 17:07

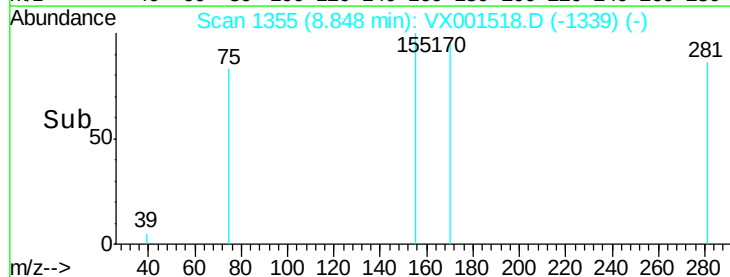
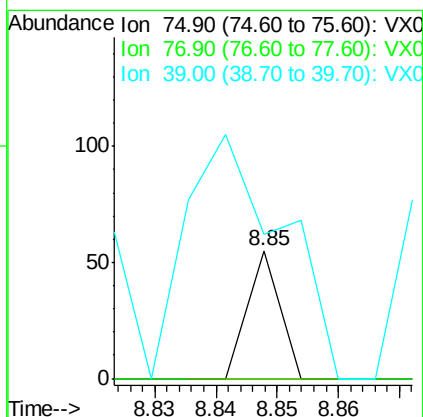
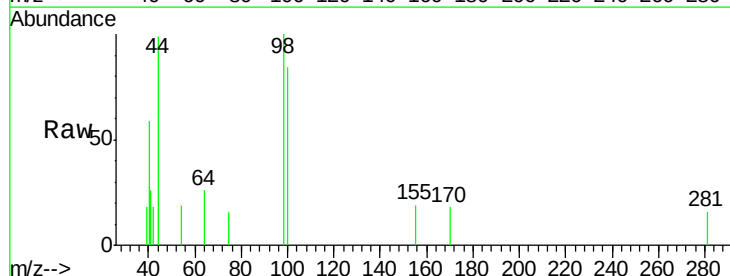
Instrument :
MSVOA_X
ClientSampleId :
RO-160

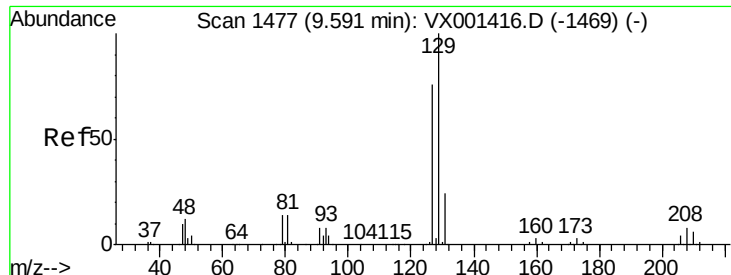
Tgt Ion: 98 Resp: 509414
Ion Ratio Lower Upper
98 100
100 66.2 54.0 81.0



#54
cis-1,3-Dichloropropene
Concen: 2.27 ug/l
RT: 8.85 min Scan# 1355
Delta R.T. -0.20 min
Lab File: VX001518.D
Acq: 08 May 2018 17:07

Tgt Ion: 75 Resp: 20
Ion Ratio Lower Upper
75 100
77 0.0 25.5 38.3#
39 112.7 38.9 58.3#





#60

Dibromochloromethane

Concen: 0.94 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.25 min

Lab File: VX001518.D

Acq: 08 May 2018 17:07

Instrument :

MSVOA_X

ClientSampleId :

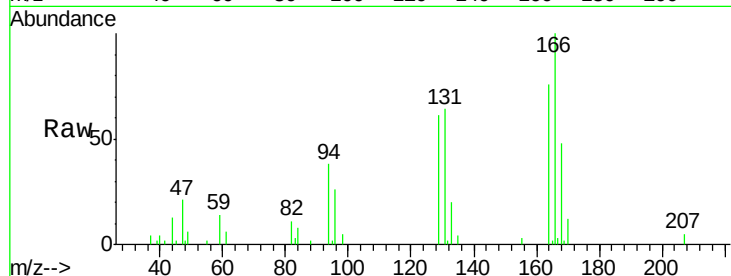
RO-160

Tgt Ion:129 Resp: 3188

Ion Ratio Lower Upper

129 100

127 0.0 38.1 114.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

2000

1500

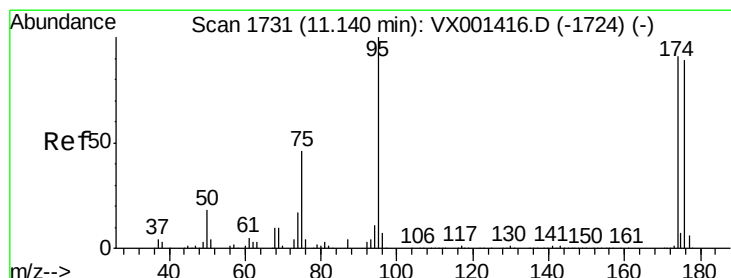
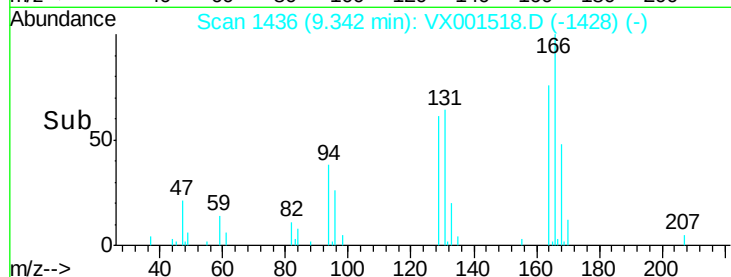
1000

500

0

9.30 9.35 9.40

Time-->



#62

4-Bromofluorobenzene

Concen: 39.37 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001518.D

Acq: 08 May 2018 17:07

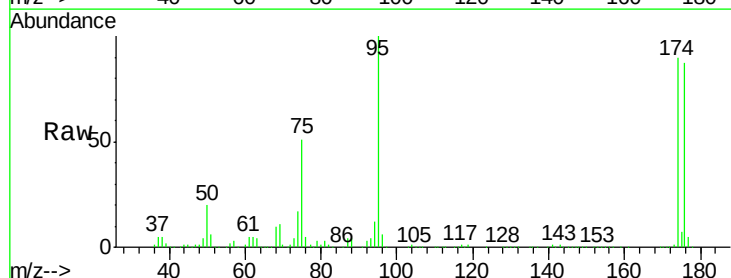
Tgt Ion: 95 Resp: 165459

Ion Ratio Lower Upper

95 100

174 100.8 0.0 202.0

176 97.7 0.0 197.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

150000

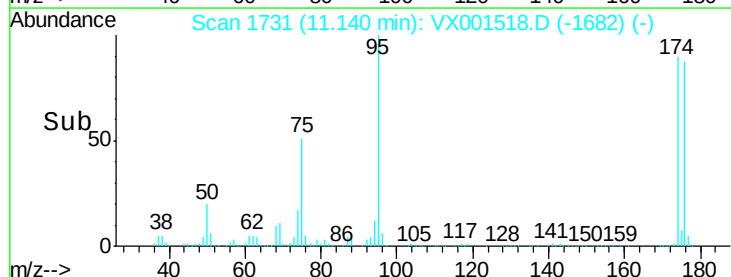
100000

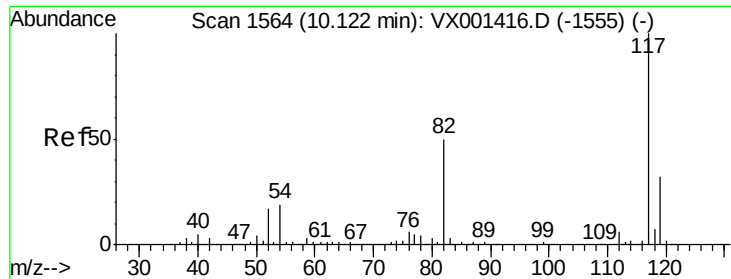
50000

0

11.10 11.20

Time-->

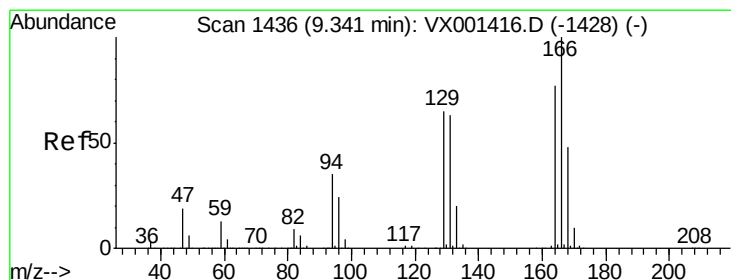
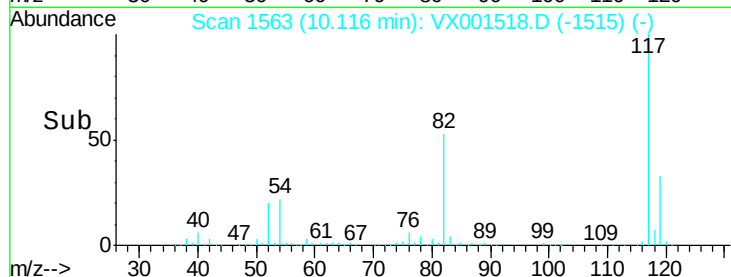
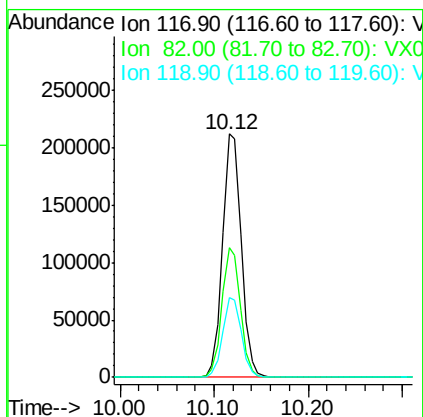
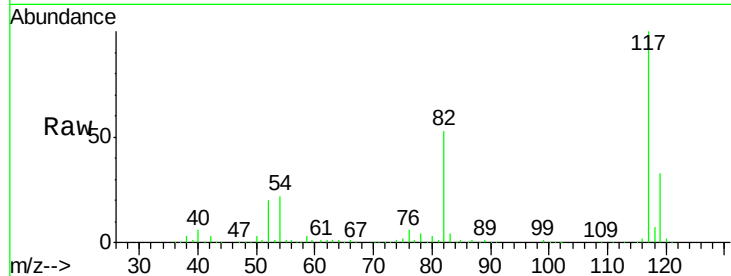




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VX001518.D
Acq: 08 May 2018 17:07

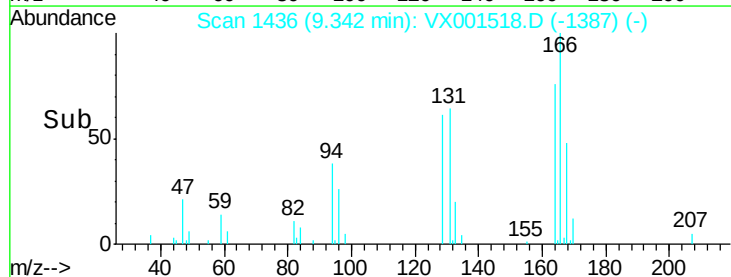
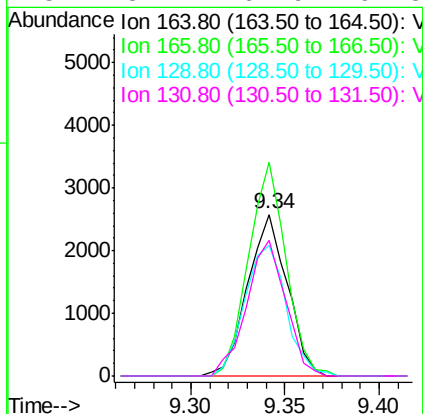
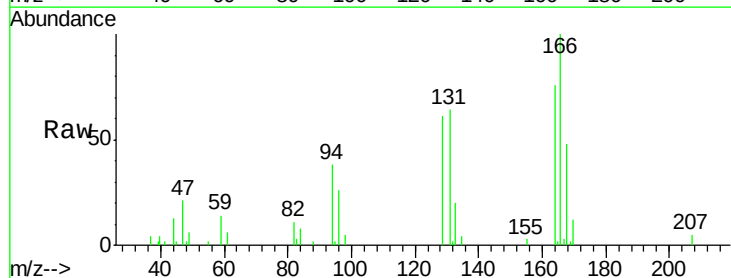
Instrument :
MSVOA_X
ClientSampled :
RO-160

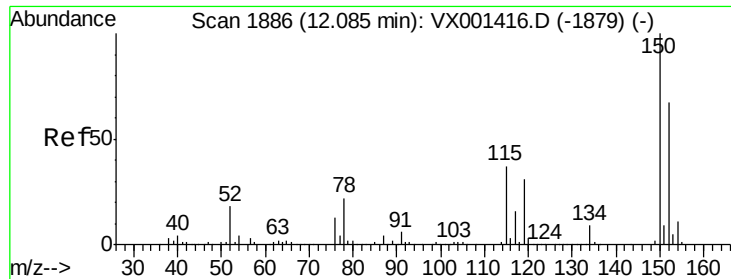
Tgt Ion:117 Resp: 292855
Ion Ratio Lower Upper
117 100
82 53.5 40.0 60.0
119 33.0 25.8 38.8



#64
Tetrachloroethene
Concen: 0.92 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. 0.00 min
Lab File: VX001518.D
Acq: 08 May 2018 17:07

Tgt Ion:164 Resp: 3756
Ion Ratio Lower Upper
164 100
166 132.3 103.5 155.3
129 81.3 66.7 100.1
131 84.2 64.9 97.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001518.D

Acq: 08 May 2018 17:07

Instrument :

MSVOA_X

ClientSampled :

RO-160

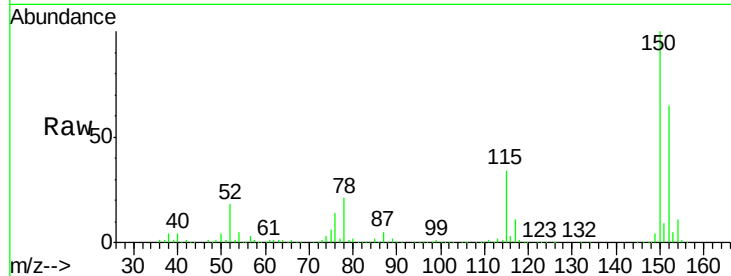
Tgt Ion:152 Resp: 161672

Ion Ratio Lower Upper

152 100

115 52.9 37.7 113.1

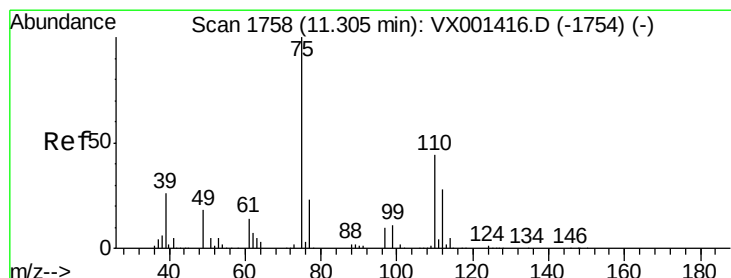
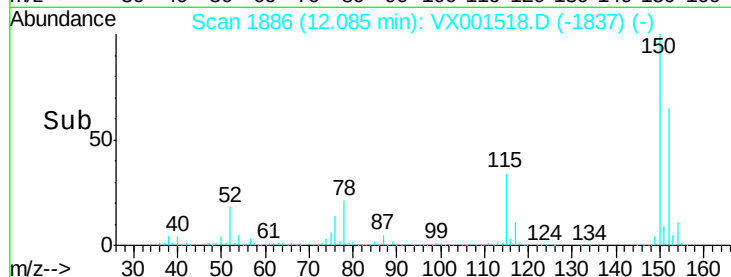
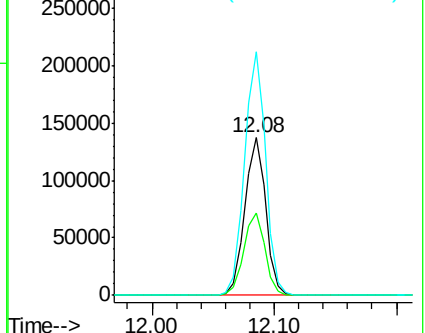
150 155.9 0.0 349.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.35 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001518.D

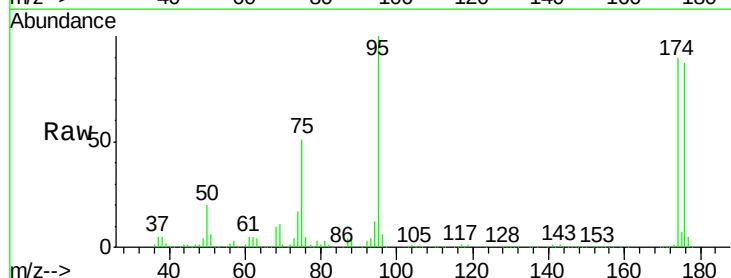
Acq: 08 May 2018 17:07

Tgt Ion: 75 Resp: 83123

Ion Ratio Lower Upper

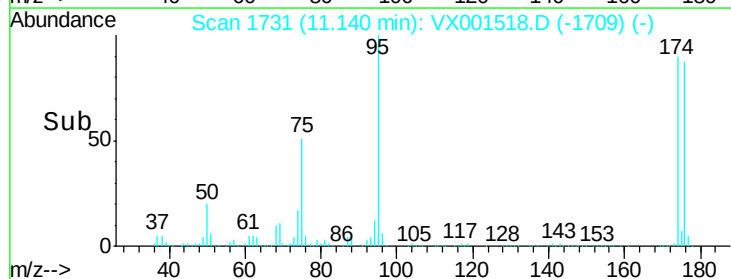
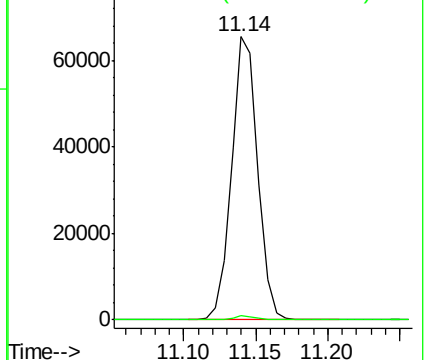
75 100

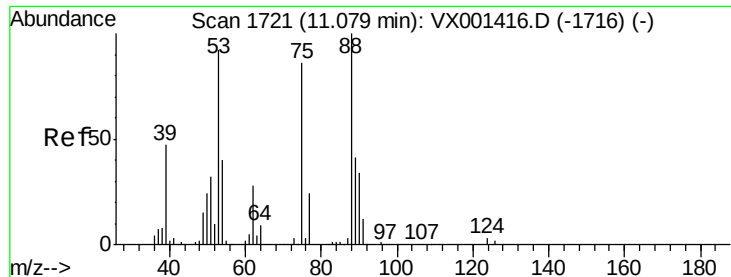
77 1.4 19.6 58.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 78.18 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001518.D

Acq: 08 May 2018 17:07

Instrument :

MSVOA_X

ClientSampleId :

RO-160

Tgt Ion: 75 Resp: 83123

Ion Ratio Lower Upper

75 100

53 0.1 84.5 126.7#

89 0.0 39.5 59.3#

