

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040220\
 Data File : VX015476.D
 Acq On : 02 Apr 2020 13:05
 Operator : JC/SP
 Sample : L2099-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

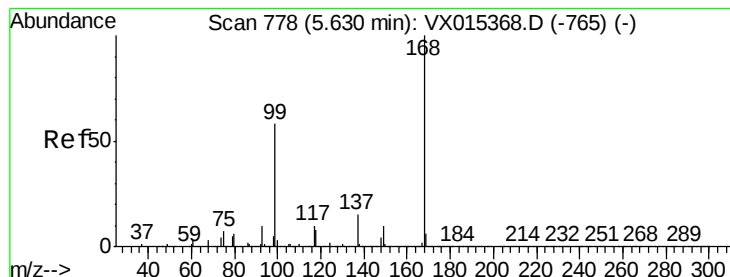
Quant Time: Apr 03 08:00:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1116739	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1862860	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1730304	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	896734	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	768261	48.78	ug/l	0.00
Spiked Amount			Recovery	=	97.56%	
35) Dibromofluoromethane	5.47	113	577145	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
50) Toluene-d8	8.70	98	2198285	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
62) 4-Bromofluorobenzene	11.12	95	943244	52.94	ug/l	0.00
Spiked Amount			Recovery	=	105.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	2105	Below Cal	#	42
11) Tert butyl alcohol	3.01	59	2497	0.662	ug/l	98
13) Acrolein	2.28	56	776	0.361	ug/l #	2
15) Acrylonitrile	3.12	53	3655	0.508	ug/l #	25
16) Acetone	2.42	43	2754	0.407	ug/l #	88
17) Carbon Disulfide	2.55	76	8825	0.274	ug/l #	82
20) Methylene Chloride	2.84	84	2551	0.202	ug/l #	68
29) Tetrahydrofuran	5.09	42	2895	0.414	ug/l #	66
31) Cyclohexane	5.62	56	25207	1.264	ug/l #	22
36) 1,1-Dichloropropene	5.63	75	89145	5.194	ug/l #	53
38) Carbon Tetrachloride	5.63	117	111071	5.975	ug/l #	14
49) 1,4-Dioxane	7.70	88	436	1.240	ug/l #	20
76) 1,2,3-Trichloropropane	11.12	75	478479	25.947	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	478479	62.259	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.63	180	5750	0.265	ug/l	97
94) Hexachlorobutadiene	13.77	225	3019	0.292	ug/l	76
96) 1,2,3-Trichlorobenzene	14.01	180	4671	0.223	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015476.D

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Instrument :

MSVOA_X

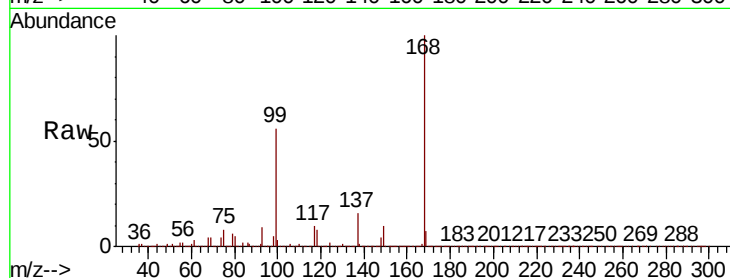
ClientSampled :

Tot Ion:168 Resp: 1116739

Ion Ratio Lower Upper

168 100

99 55.4 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

400000

300000

200000

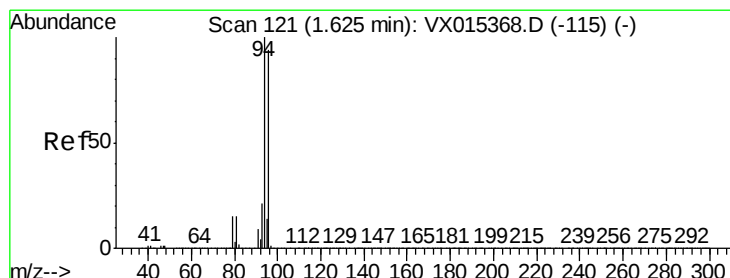
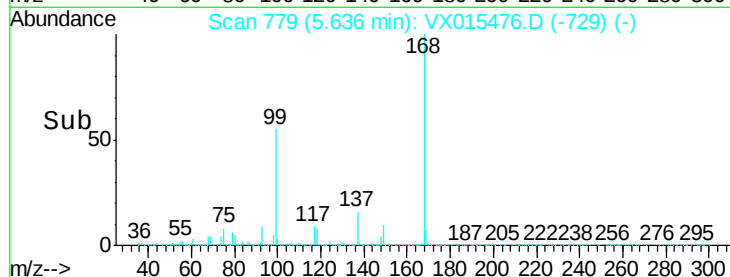
100000

0

5.64

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX015476.D

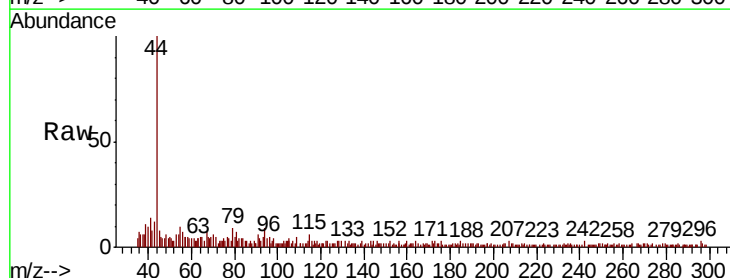
Acq: 02 Apr 2020 13:05

Tgt Ion: 94 Resp: 2105

Ion Ratio Lower Upper

94 100

96 37.2 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1200

1000

800

600

400

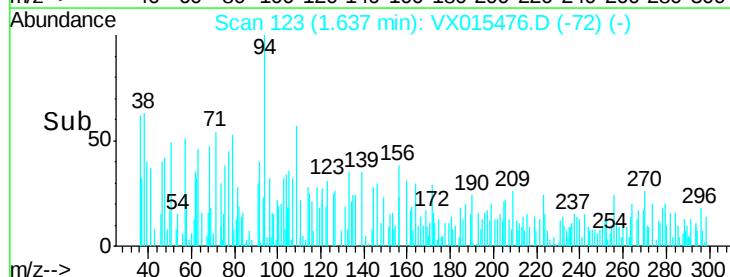
200

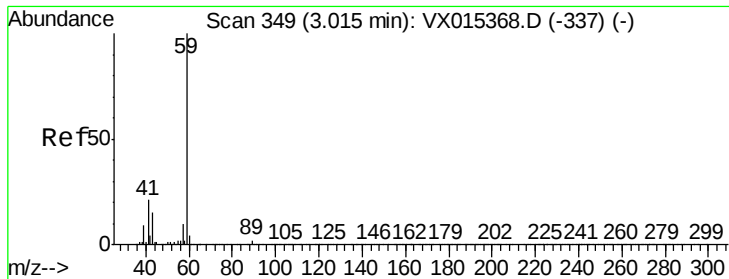
0

1.64

1.55 1.60 1.65 1.70

Time-->

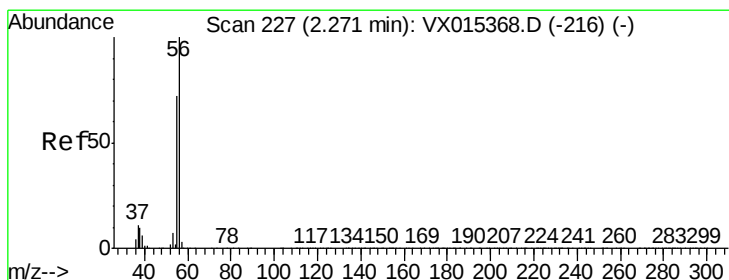
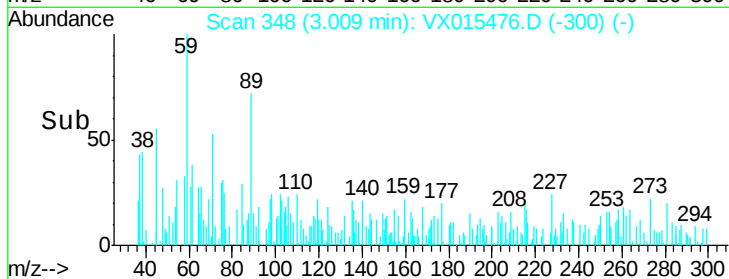
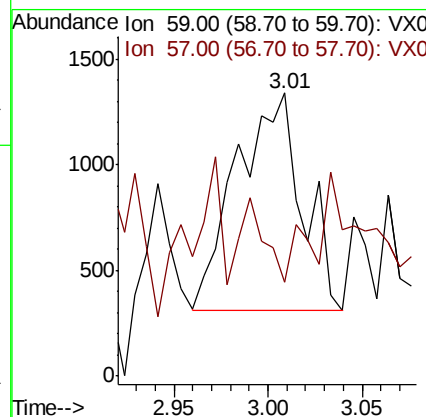
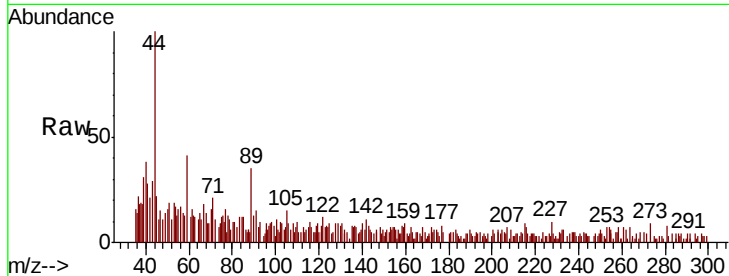




#11
Tert butyl alcohol
Concen: 0.662 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.01 min
Lab File: VX015476.D
Acq: 02 Apr 2020 13:05

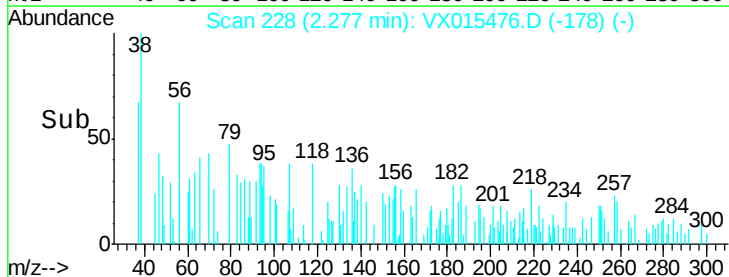
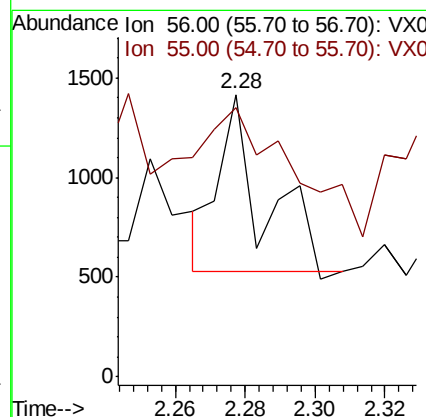
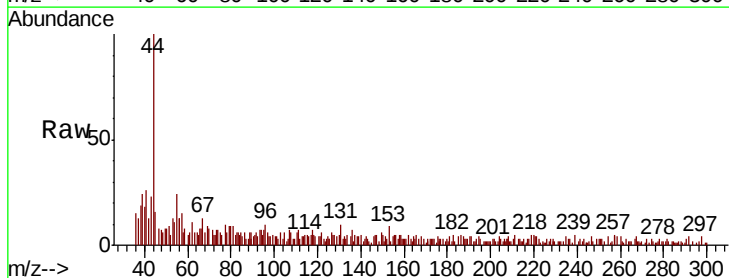
Instrument :
MSVOA_X
ClientSampled :

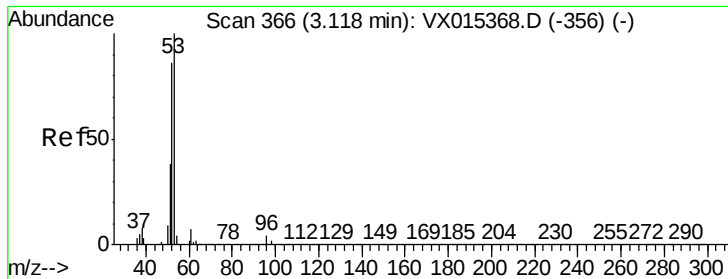
Tot Ion: 59 Resp: 2497
Ion Ratio Lower Upper
59 100
57 11.0 8.1 12.1



#13
Acrolein
Concen: 0.361 ug/l
RT: 2.28 min Scan# 228
Delta R.T. 0.01 min
Lab File: VX015476.D
Acq: 02 Apr 2020 13:05

Tgt Ion: 56 Resp: 776
Ion Ratio Lower Upper
56 100
55 152.2 57.0 85.4#





#15

Acrylonitrile

Concen: 0.508 ug/l

RT: 3.12 min Scan# 366

Delta R.T. 0.00 min

Lab File: VX015476.D

Acq: 02 Apr 2020 13:05

Instrument :

MSVOA_X

ClientSampled :

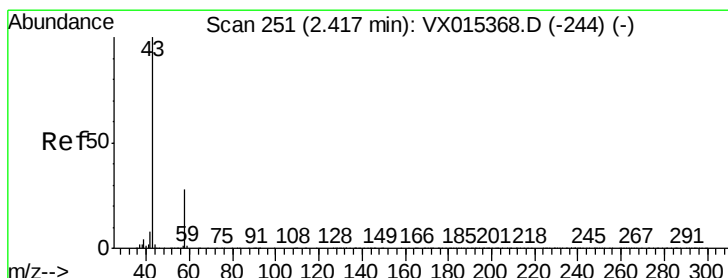
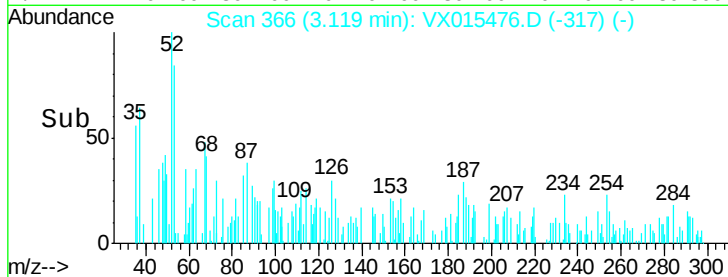
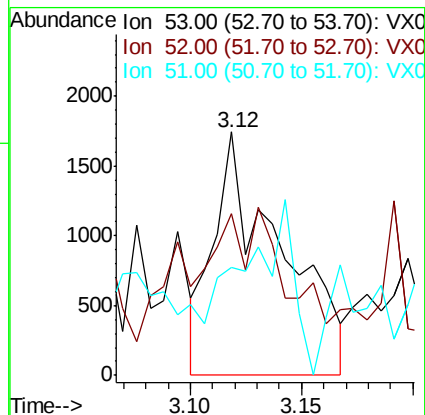
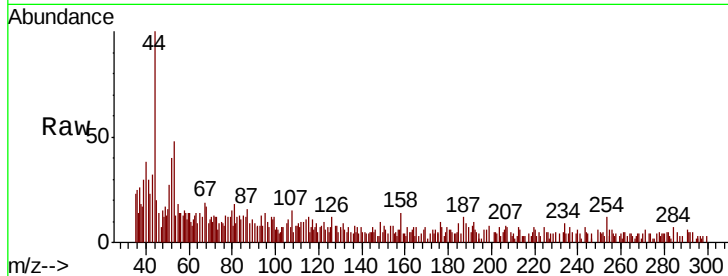
Tot Ion: 53 Resp: 3655

Ion Ratio Lower Upper

53 100

52 10.4 66.8 100.2#

51 0.0 29.5 44.3#



#16

Acetone

Concen: 0.407 ug/l

RT: 2.42 min Scan# 251

Delta R.T. 0.00 min

Lab File: VX015476.D

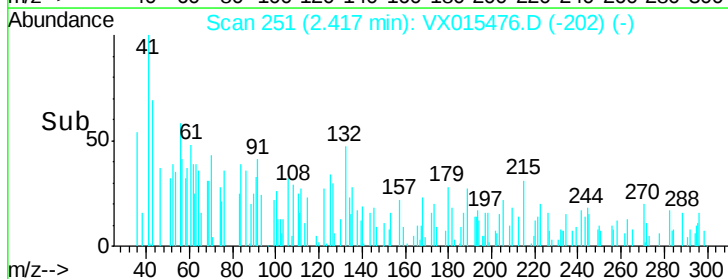
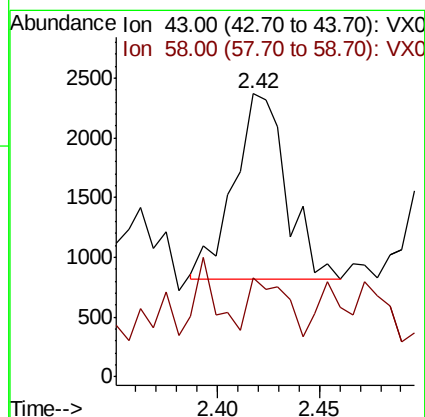
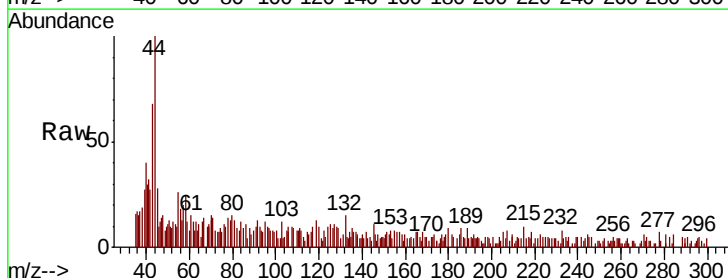
Acq: 02 Apr 2020 13:05

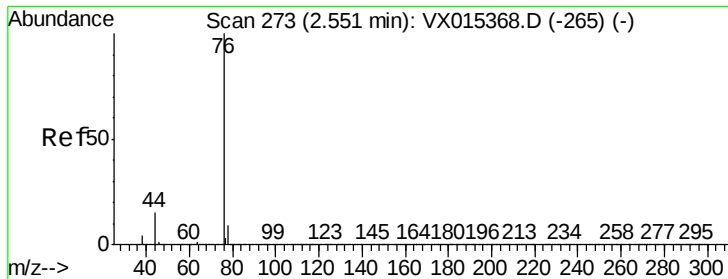
Tgt Ion: 43 Resp: 2754

Ion Ratio Lower Upper

43 100

58 21.2 22.1 33.1#

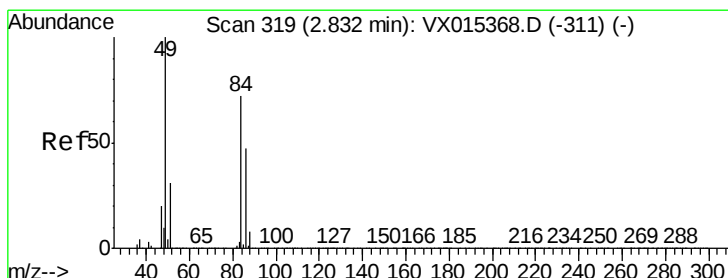
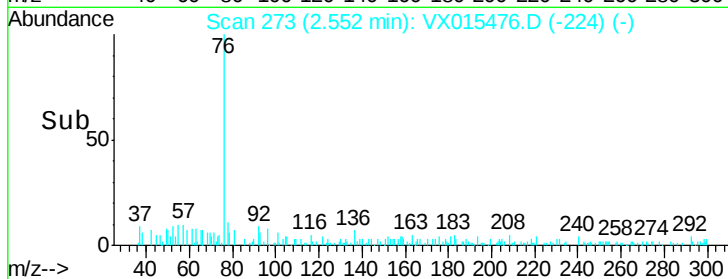
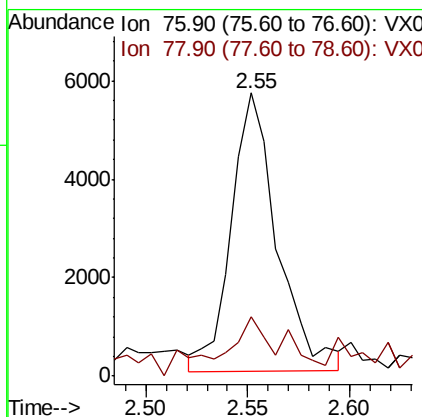
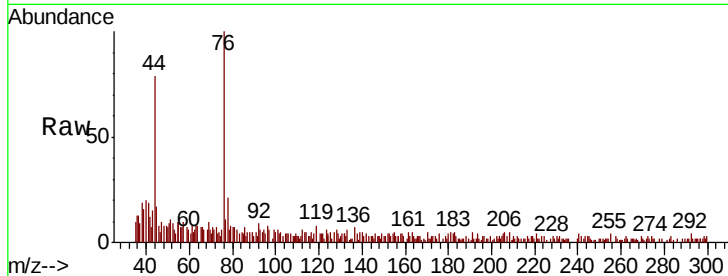




#17
Carbon Disulfide
Concen: 0.274 ug/l
RT: 2.55 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX015476.D
Acq: 02 Apr 2020 13:05

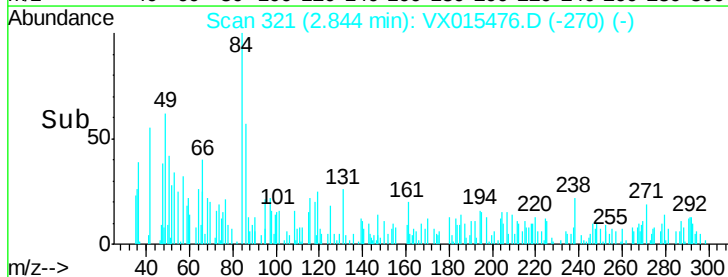
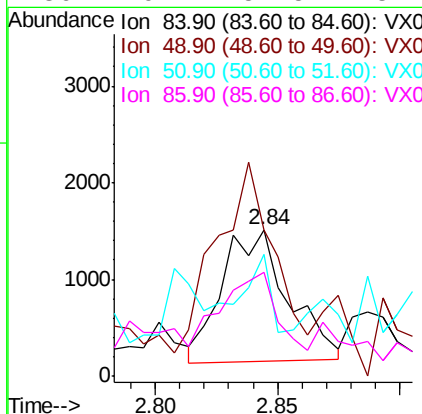
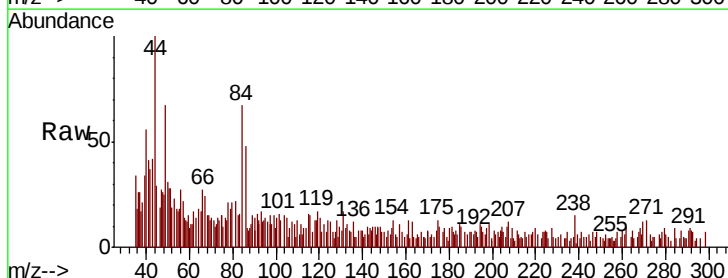
Instrument :
MSVOA_X
ClientSampleId :

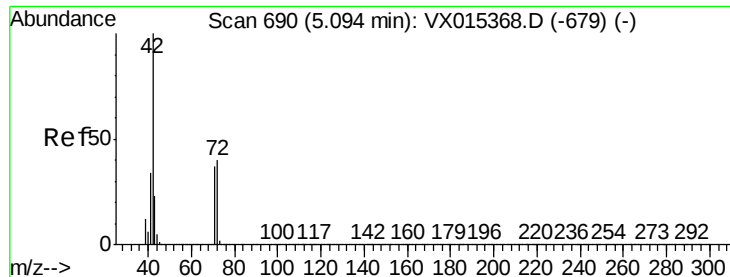
Tot Ion: 76 Resp: 8825
Ion Ratio Lower Upper
76 100
78 15.6 7.1 10.7#



#20
Methylene Chloride
Concen: 0.202 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.01 min
Lab File: VX015476.D
Acq: 02 Apr 2020 13:05

Tgt Ion: 84 Resp: 2551
Ion Ratio Lower Upper
84 100
49 84.7 111.3 166.9#
51 50.5 34.0 51.0
86 79.2 52.5 78.7#





#29

Tetrahydrofuran

Concen: 0.414 ug/l

RT: 5.09 min Scan# 689

Delta R.T. -0.01 min

Lab File: VX015476.D

Acq: 02 Apr 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

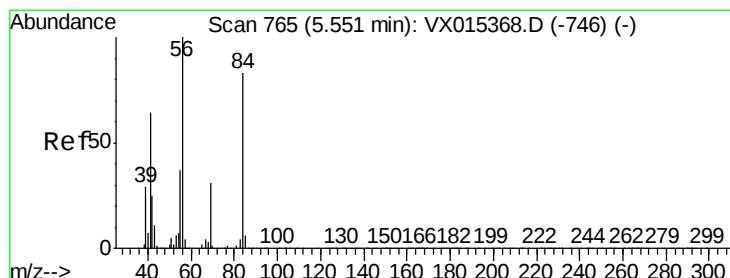
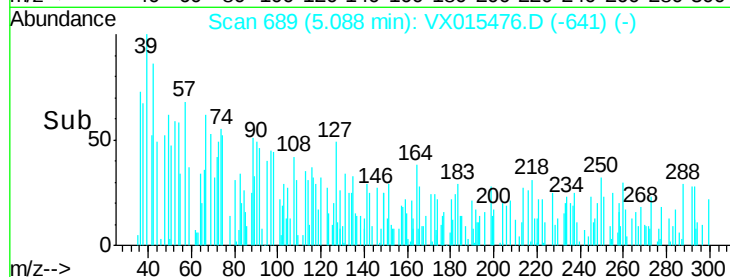
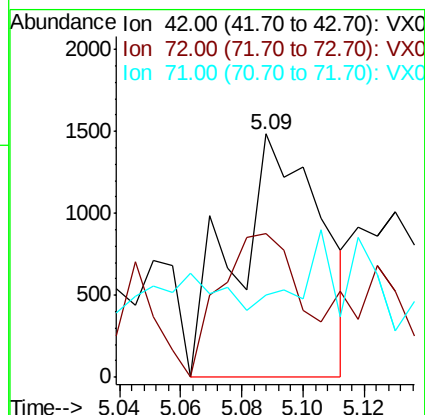
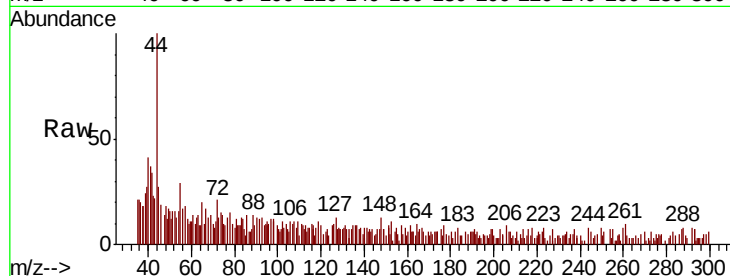
Tot Ion: 42 Resp: 2895

Ion Ratio Lower Upper

42 100

72 54.7 31.7 47.5#

71 11.1 29.6 44.4#



#31

Cyclohexane

Concen: 1.264 ug/l

RT: 5.62 min Scan# 777

Delta R.T. 0.07 min

Lab File: VX015476.D

Acq: 02 Apr 2020 13:05

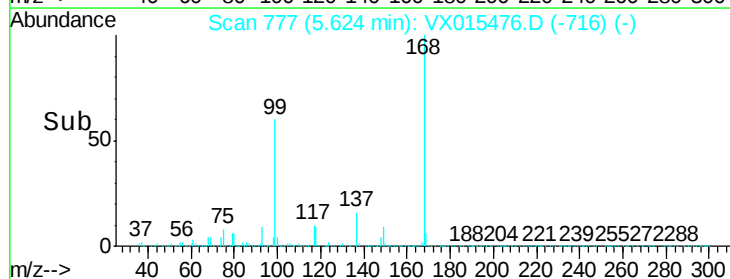
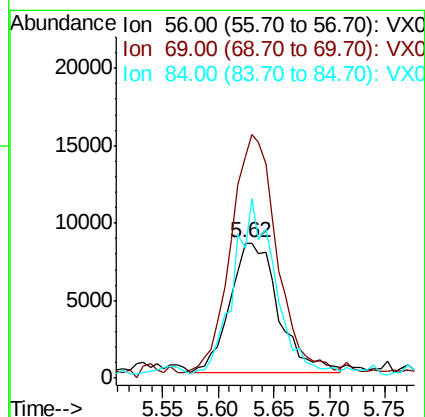
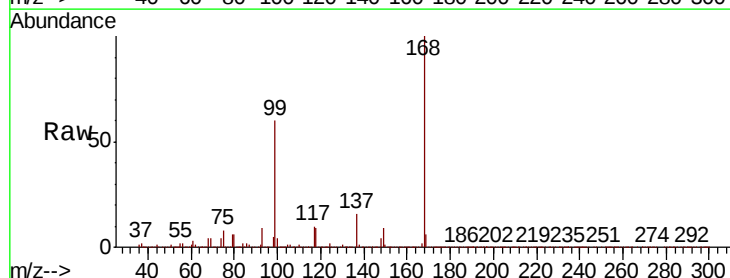
Tgt Ion: 56 Resp: 25207

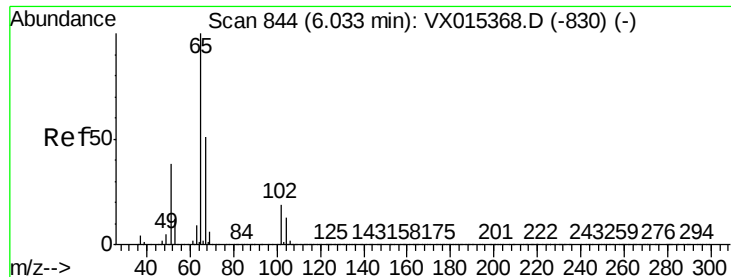
Ion Ratio Lower Upper

56 100

69 165.2 24.6 36.8#

84 96.5 66.1 99.1





#33

1,2-Dichloroethane-d4

Concen: 48.777 ug/l

RT: 6.03 min Scan# 844

Delta R.T. 0.00 min

Lab File: VX015476.D

Acq: 02 Apr 2020 13:05

Instrument :

MSVOA_X

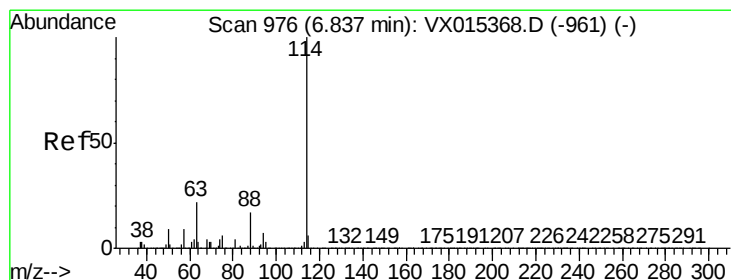
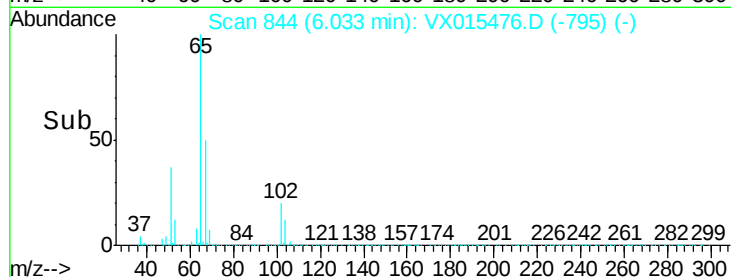
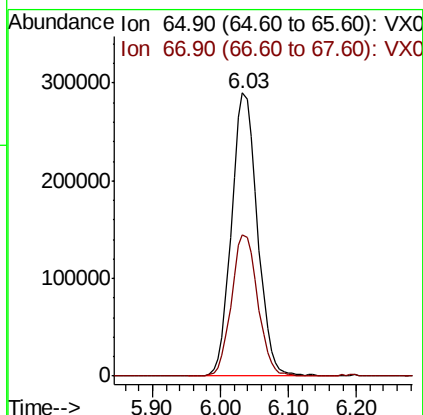
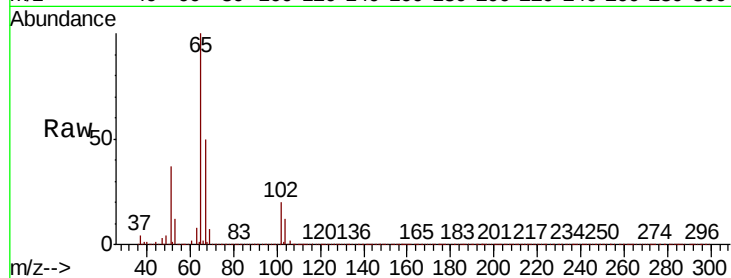
ClientSampleId :

Tot Ion: 65 Resp: 768261

Ion Ratio Lower Upper

65 100

67 50.1 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015476.D

Acq: 02 Apr 2020 13:05

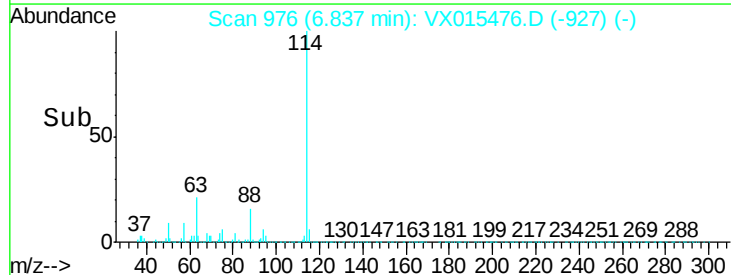
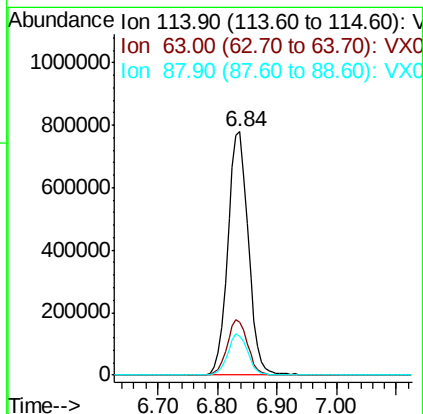
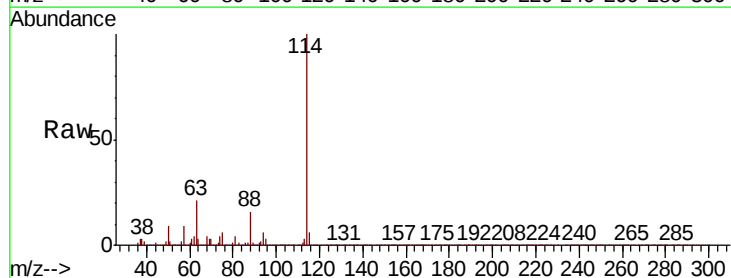
Tgt Ion: 114 Resp: 1862860

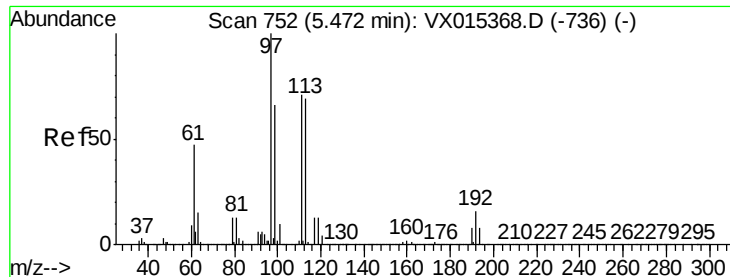
Ion Ratio Lower Upper

114 100

63 21.4 0.0 44.2

88 16.0 0.0 33.8

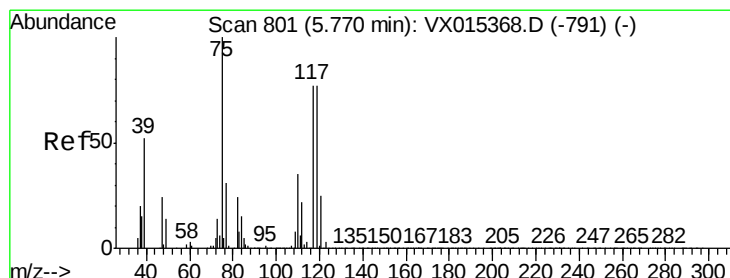
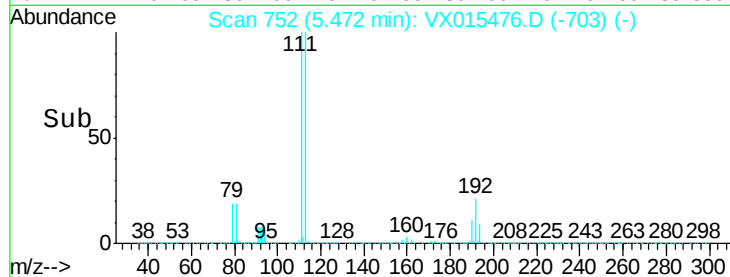
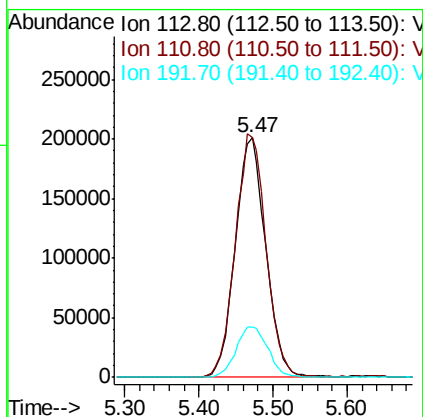
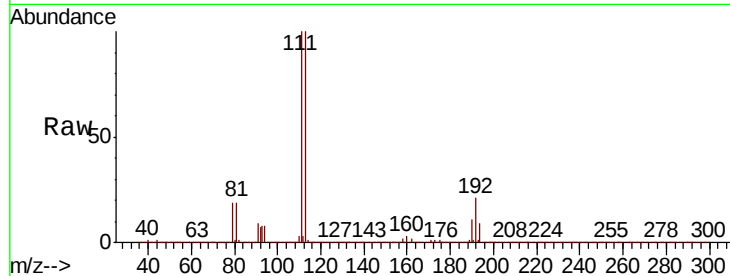




#35
Dibromofluoromethane
Concen: 48.467 ug/l
RT: 5.47 min Scan# 752
Delta R.T. 0.00 min
Lab File: VX015476.D
Acq: 02 Apr 2020 13:05

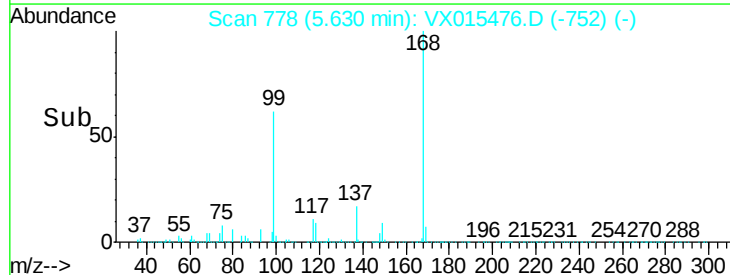
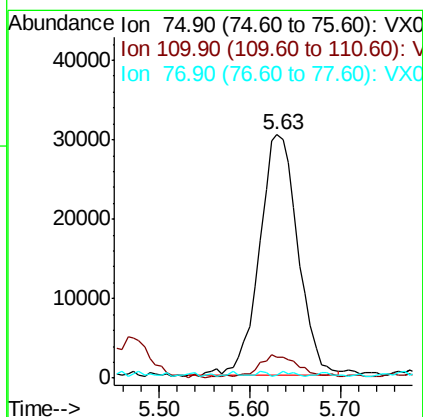
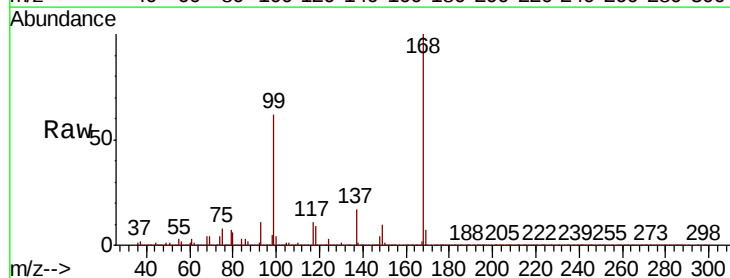
Instrument :
MSVOA_X
ClientSampleId :

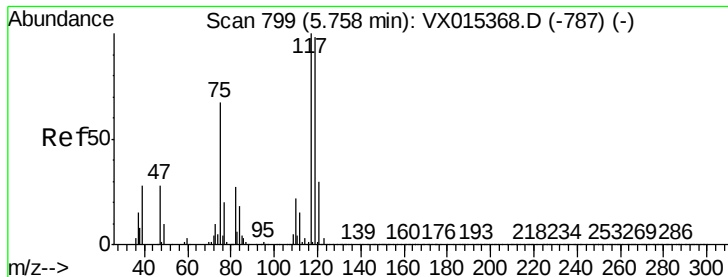
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.5	122.3
192	22.1	17.8	26.6



#36
1,1-Dichloropropene
Concen: 5.194 ug/l
RT: 5.63 min Scan# 778
Delta R.T. -0.14 min
Lab File: VX015476.D
Acq: 02 Apr 2020 13:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	17.1	51.3#
77	0.7	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.975 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015476.D

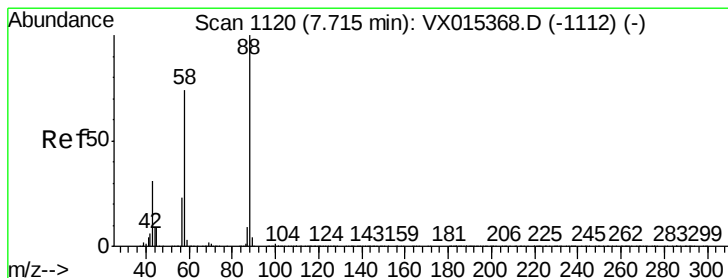
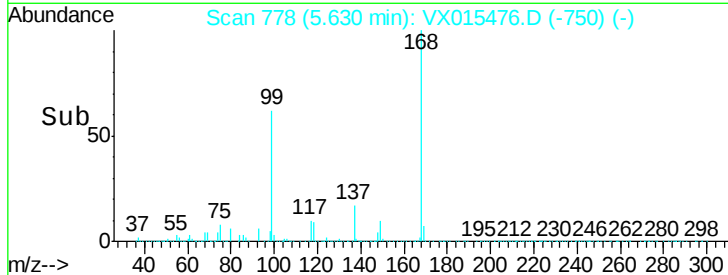
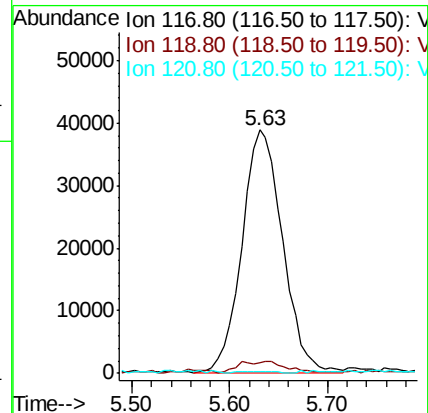
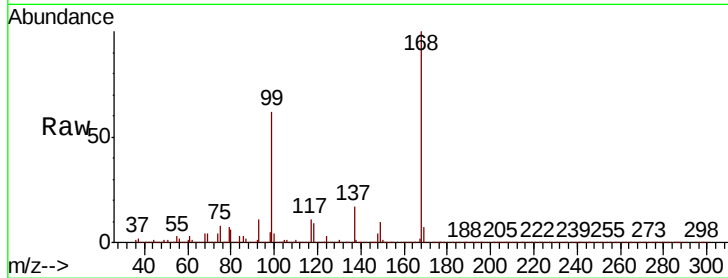
Acq: 02 Apr 2020 13:05

Instrument :

MSVOA_X

ClientSampled :

Tot Ion:	117	Resp:	111071
Ion Ratio	Lower	Upper	
117	100		
119	3.8	78.0	117.0#
121	0.0	23.8	35.8#



#49

1,4-Dioxane

Concen: 1.240 ug/l

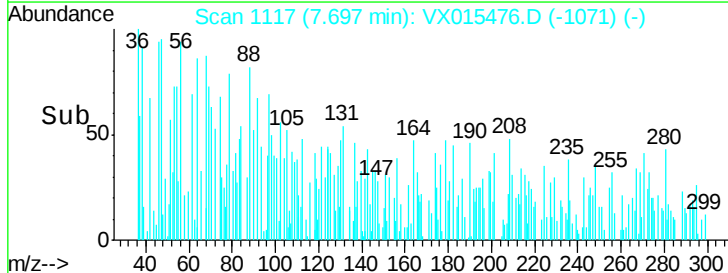
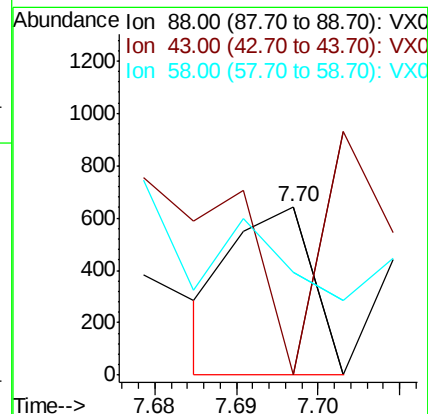
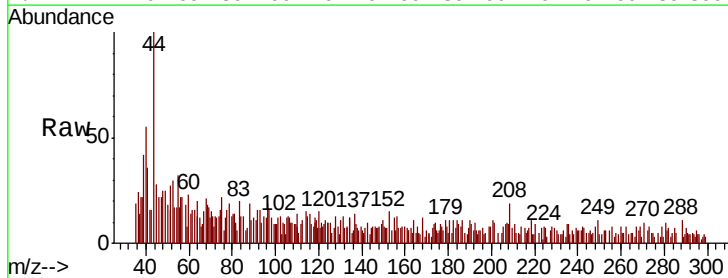
RT: 7.70 min Scan# 1117

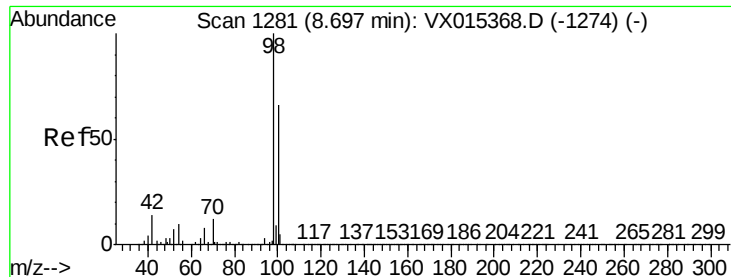
Delta R.T. -0.02 min

Lab File: VX015476.D

Acq: 02 Apr 2020 13:05

Tgt Ion:	88	Resp:	436
Ion Ratio	Lower	Upper	
88	100		
43	0.0	30.1	45.1#
58	0.0	60.6	90.8#





#50

Toluene-d8

Concen: 50.141 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VX015476.D

Acq: 02 Apr 2020 13:05

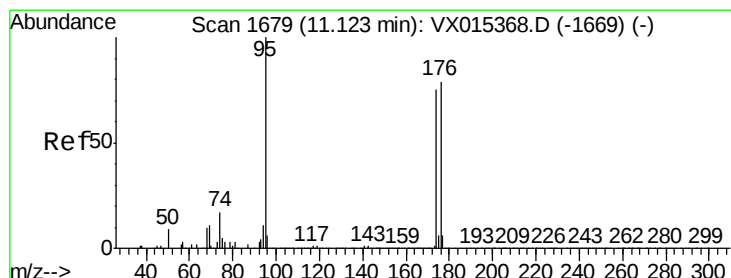
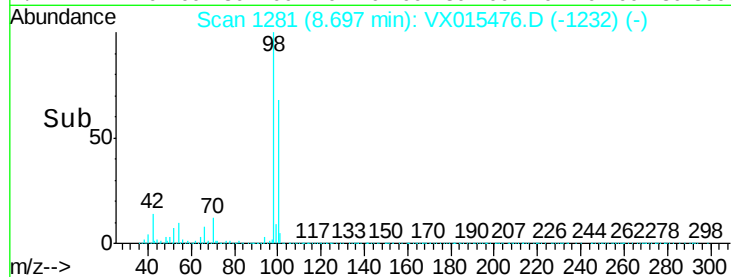
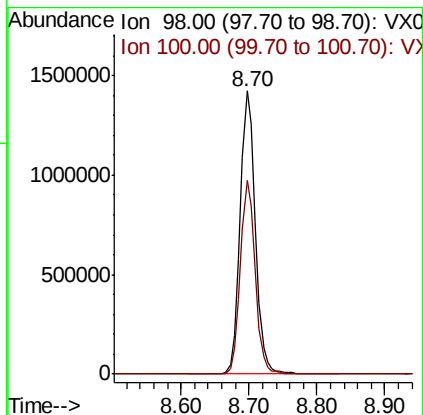
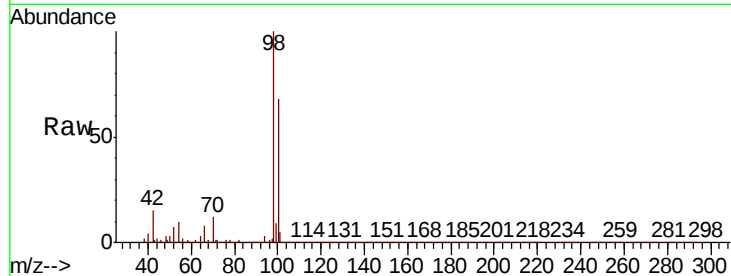
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 2198285

Ion Ratio Lower Upper

98 100

100 67.1 53.5 80.3



#62

4-Bromofluorobenzene

Concen: 52.940 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015476.D

Acq: 02 Apr 2020 13:05

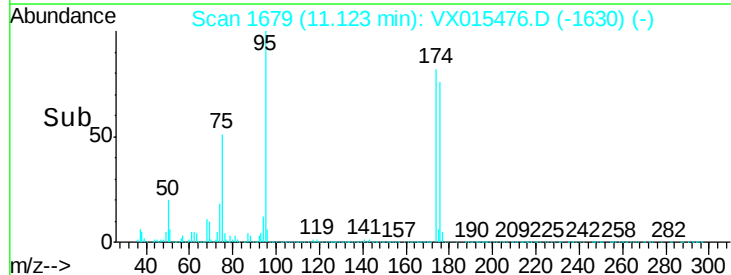
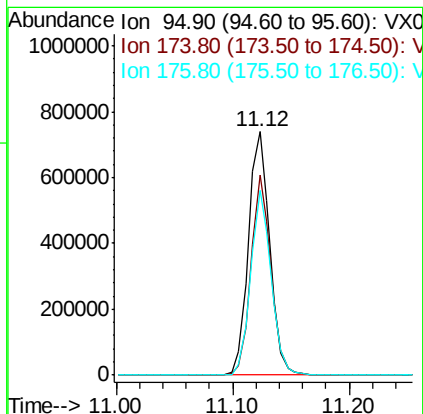
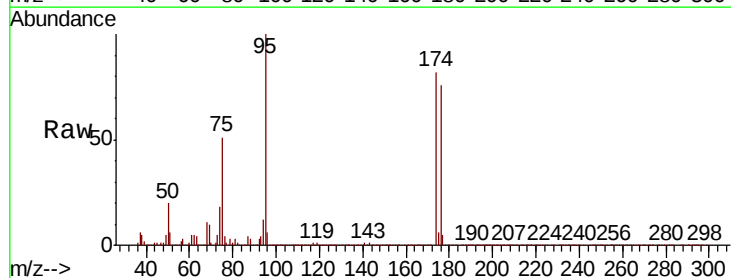
Tgt Ion: 95 Resp: 943244

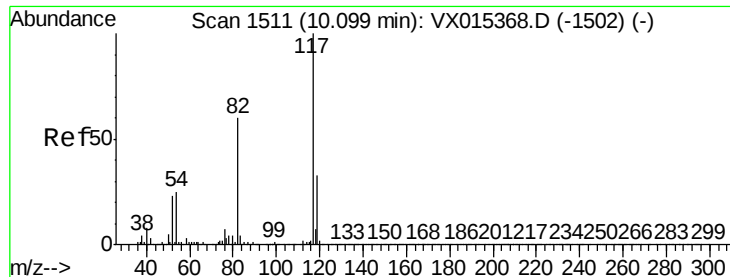
Ion Ratio Lower Upper

95 100

174 77.1 0.0 158.6

176 72.8 0.0 159.0

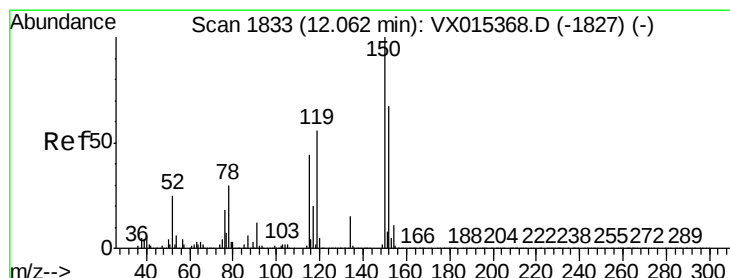
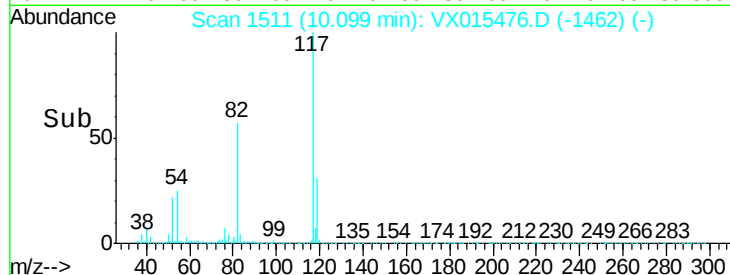
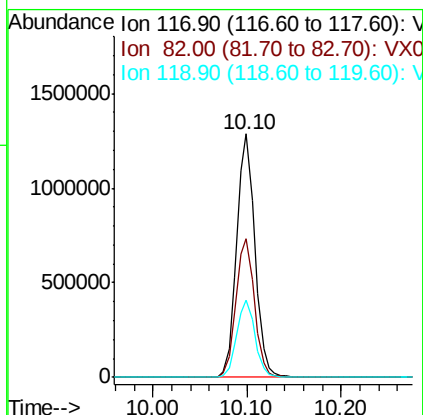
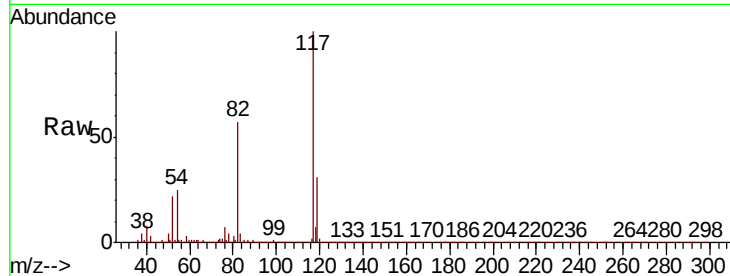




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015476.D
Acq: 02 Apr 2020 13:05

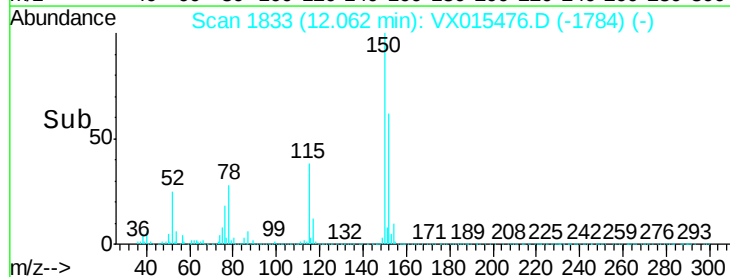
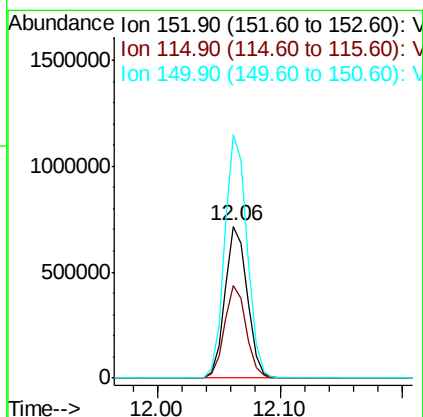
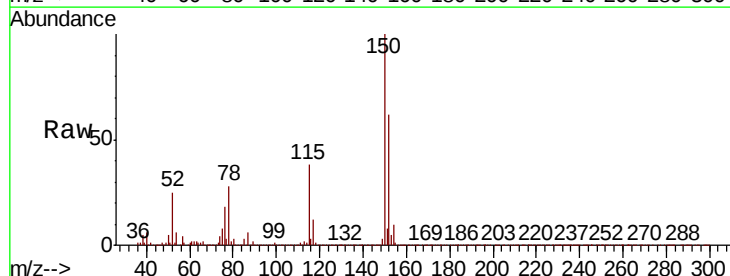
Instrument :
MSVOA_X
ClientSampleId :

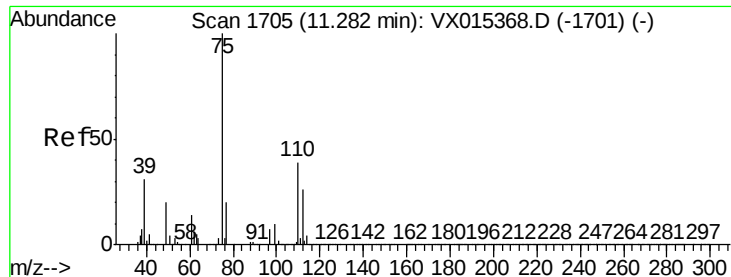
Tot Ion:117 Resp: 1730304
Ion Ratio Lower Upper
117 100
82 56.9 47.8 71.8
119 31.5 26.8 40.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. 0.00 min
Lab File: VX015476.D
Acq: 02 Apr 2020 13:05

Tgt Ion:152 Resp: 896734
Ion Ratio Lower Upper
152 100
115 59.8 39.0 116.9
150 160.9 0.0 340.8





#76

1,2,3-Trichloropropane

Concen: 25.947 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015476.D

Acq: 02 Apr 2020 13:05

Instrument :

MSVOA_X

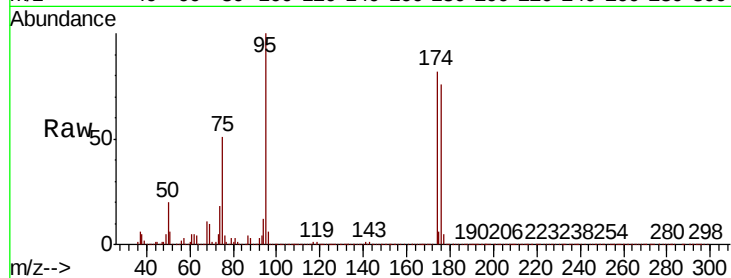
ClientSampleId :

Tot Ion: 75 Resp: 478479

Ion Ratio Lower Upper

75 100

77 1.2 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

400000

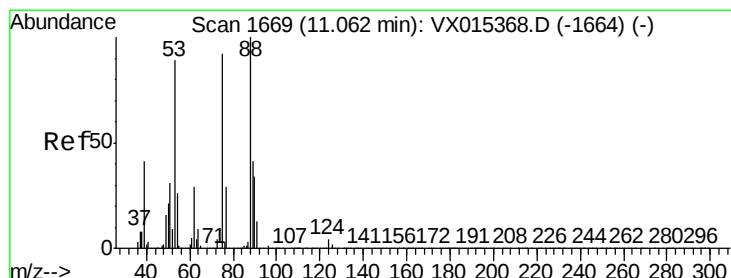
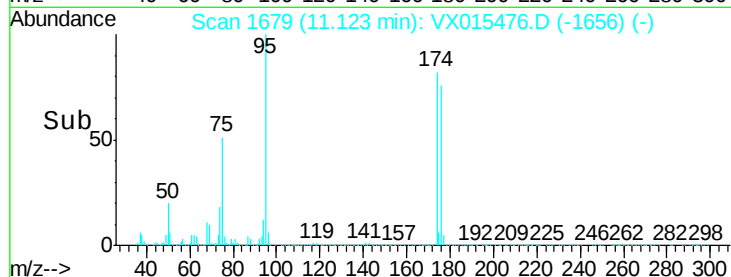
300000

200000

100000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 62.259 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015476.D

Acq: 02 Apr 2020 13:05

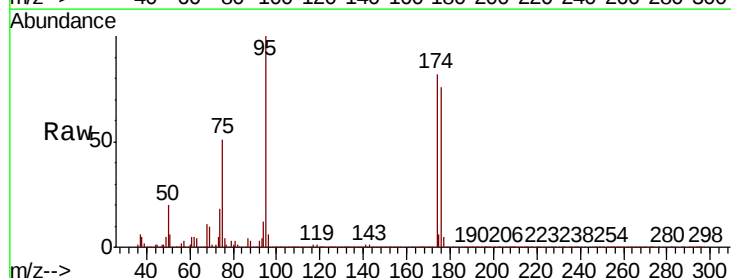
Tgt Ion: 75 Resp: 478479

Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.12

500000

400000

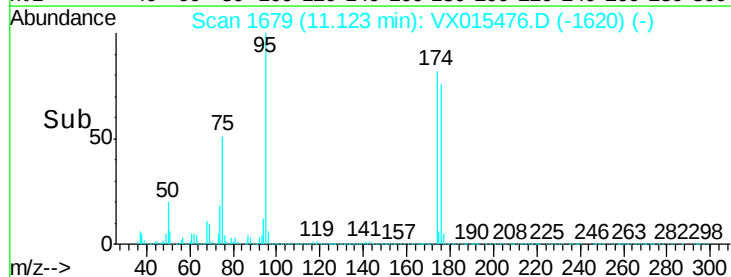
300000

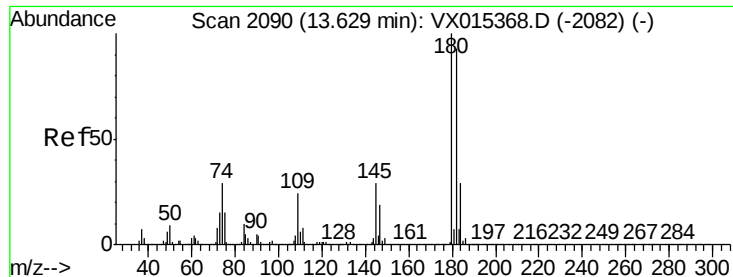
200000

100000

0

Time-->

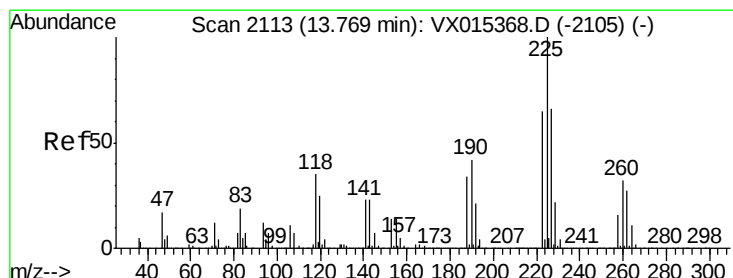
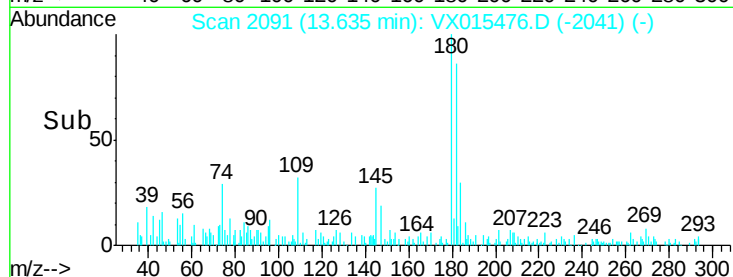
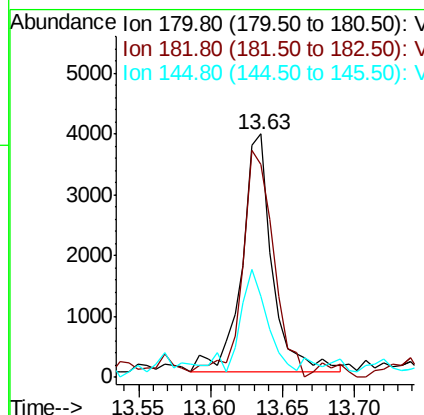
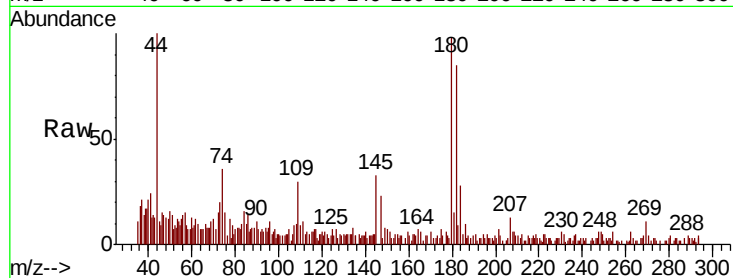




#93
 1,2,4-Trichlorobenzene
 Concen: 0.265 ug/l
 RT: 13.63 min Scan# 2091
 Delta R.T. 0.01 min
 Lab File: VX015476.D
 Acq: 02 Apr 2020 13:05

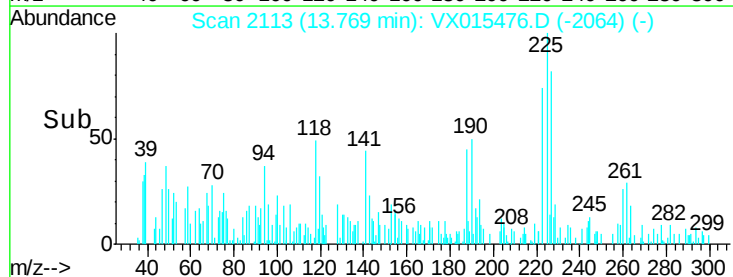
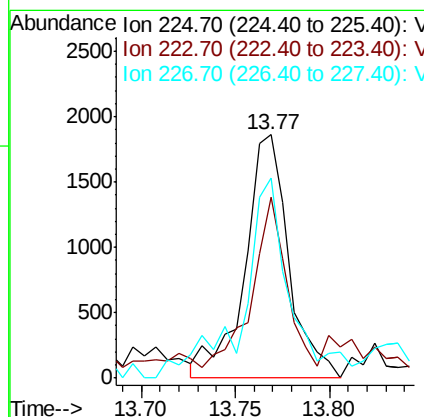
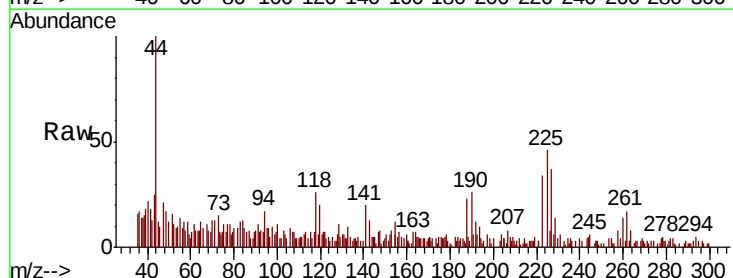
Instrument :
 MSVOA_X
 ClientSampled :

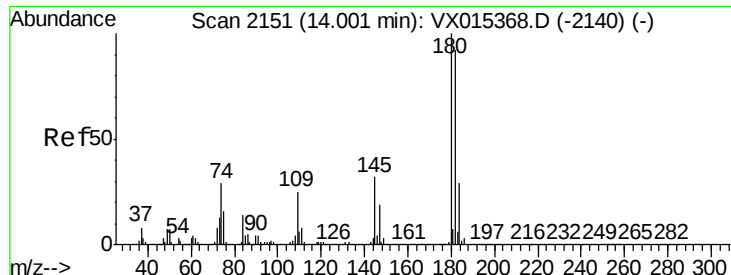
Tot Ion:180 Resp: 5750
 Ion Ratio Lower Upper
 180 100
 182 93.3 46.9 140.7
 145 36.2 14.9 44.5



#94
 Hexachlorobutadiene
 Concen: 0.292 ug/l
 RT: 13.77 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VX015476.D
 Acq: 02 Apr 2020 13:05

Tgt Ion:225 Resp: 3019
 Ion Ratio Lower Upper
 225 100
 223 53.7 31.9 95.7
 227 88.2 30.4 91.3





#96

1,2,3-Trichlorobenzene

Concen: 0.223 ug/l

RT: 14.01 min Scan# 2152

Delta R.T. 0.01 min

Lab File: VX015476.D

Acq: 02 Apr 2020 13:05

Instrument :

MSVOA_X

ClientSampleId :

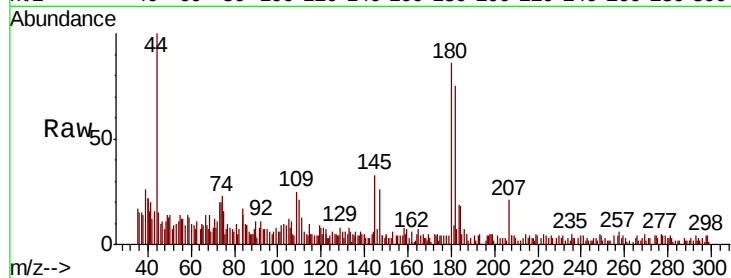
Tot Ion:180 Resp: 4671

Ion Ratio Lower Upper

180 100

182 90.4 46.7 140.0

145 35.1 15.8 47.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

