

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112618\
 Data File : VX006169.D
 Acq On : 26 Nov 2018 12:31
 Operator : JC/MD
 Sample : J6016-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 27 02:26:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 21 08:15:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	301557	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	442683	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	408488	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	192586	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	187777	53.74	ug/l	0.00
Spiked Amount			Recovery	=	107.48%	
35) Dibromofluoromethane	5.50	113	152821	53.78	ug/l	0.00
Spiked Amount			Recovery	=	107.56%	
50) Toluene-d8	8.71	98	538486	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
62) 4-Bromofluorobenzene	11.14	95	180063	44.28	ug/l	0.00
Spiked Amount			Recovery	=	88.56%	

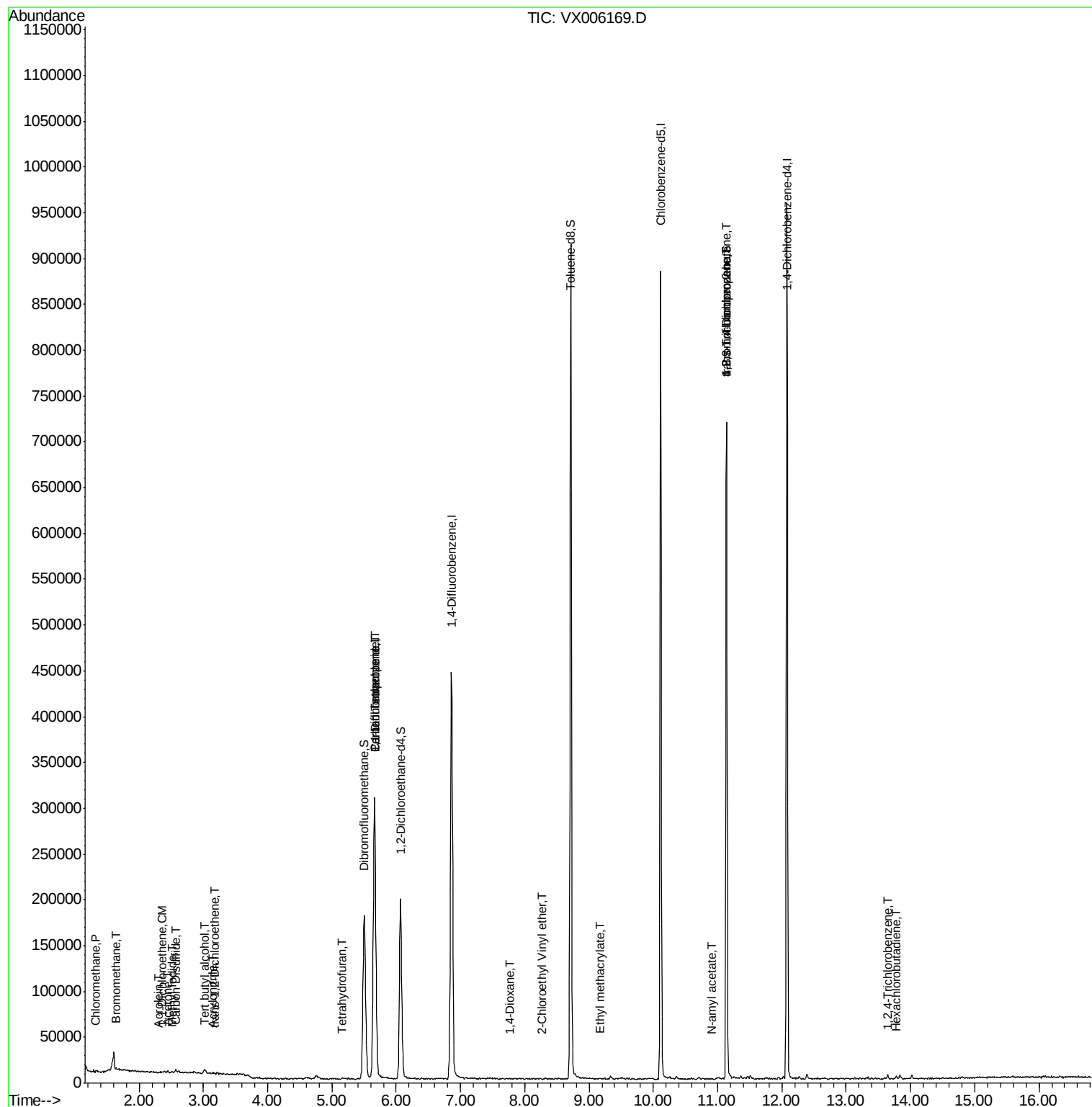
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1030	0.364	ug/l #	64
5) Bromomethane	1.64	94	786	4.044	ug/l #	73
6) Chloroethane	1.73	64	632	Below Cal	#	49
10) Methyl Iodide	2.51	142	1079	0.385	ug/l #	62
11) Tert butyl alcohol	3.03	59	3116	4.192	ug/l #	85
12) 1,1-Dichloroethene	2.37	96	444	0.204	ug/l #	5
13) Acrolein	2.30	56	193	0.434	ug/l #	13
15) Acrylonitrile	3.15	53	371	0.226	ug/l #	68
16) Acetone	2.45	43	1076	0.694	ug/l	90
17) Carbon Disulfide	2.57	76	4146	0.705	ug/l	97
21) trans-1,2-Dichloroethene	3.17	96	539	0.237	ug/l #	43
29) Tetrahydrofuran	5.15	42	376	0.209	ug/l #	78
36) 1,1-Dichloropropene	5.67	75	20998	5.214	ug/l #	51
38) Carbon Tetrachloride	5.67	117	27859	7.360	ug/l #	17
49) 1,4-Dioxane	7.76	88	45	0.500	ug/l #	1
56) Ethyl methacrylate	9.17	69	103	2.885	ug/l #	23
58) 2-Chloroethyl Vinyl ether	8.27	63	180	6.785	ug/l	94
74) N-amyl acetate	10.91	43	367	2.252	ug/l #	61
76) 1,2,3-Trichloropropane	11.14	75	90609	22.853	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	90609	77.293	ug/l #	8
93) 1,2,4-Trichlorobenzene	13.65	180	1049	0.242	ug/l	94
94) Hexachlorobutadiene	13.78	225	510	0.241	ug/l	89

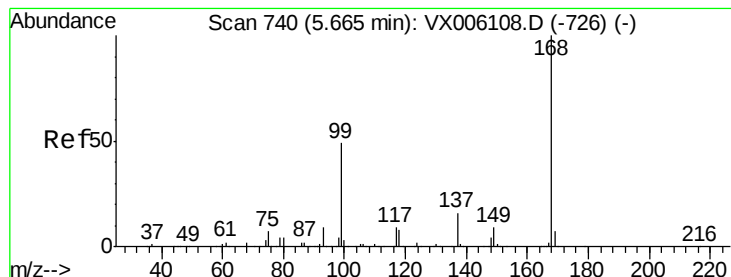
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112018W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 21 08:15:54 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

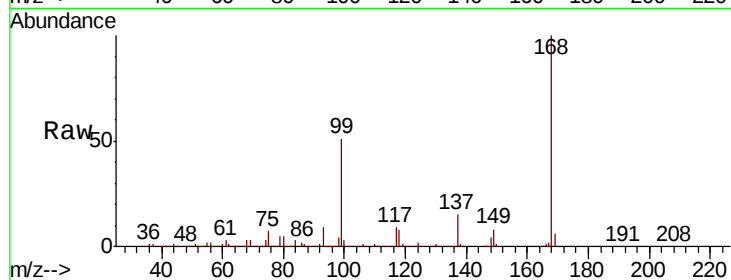
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 301557

Ion Ratio Lower Upper

168 100

99 50.7 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

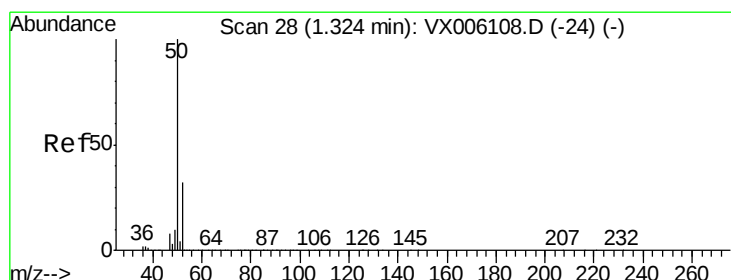
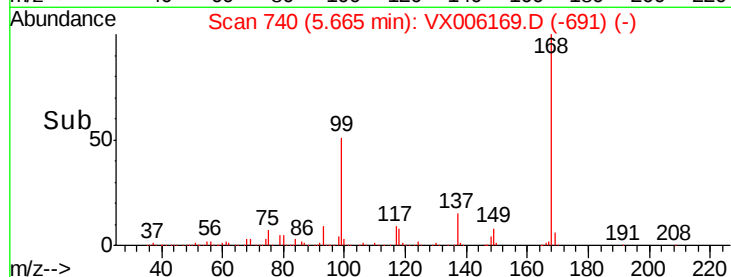
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.364 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006169.D

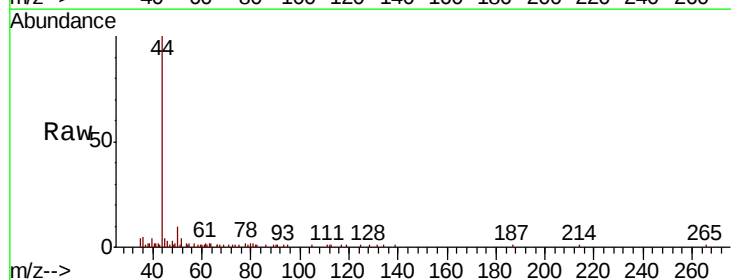
Acq: 26 Nov 2018 12:31

Tgt Ion: 50 Resp: 1030

Ion Ratio Lower Upper

50 100

52 11.9 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

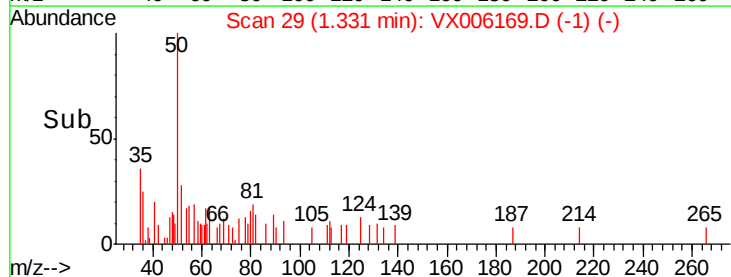
600

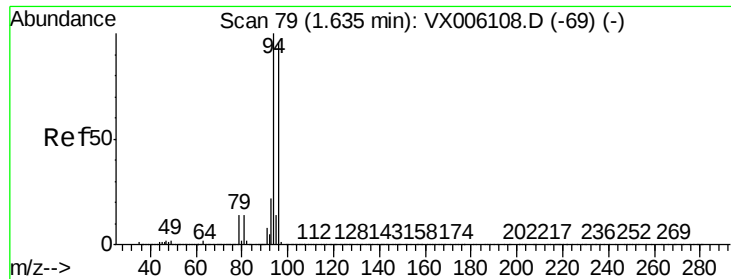
400

200

0

Time-->





#5

Bromomethane

Concen: 4.044 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Instrument :

MSVOA_X

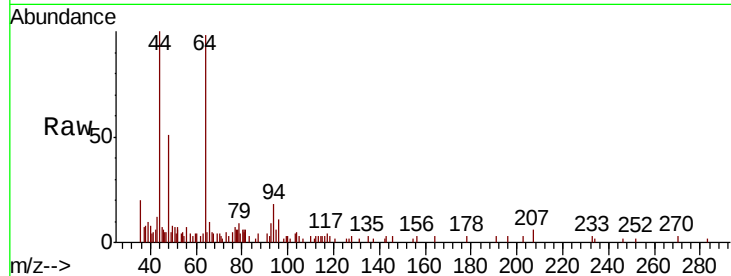
ClientSampleId :

Tot Ion: 94 Resp: 786

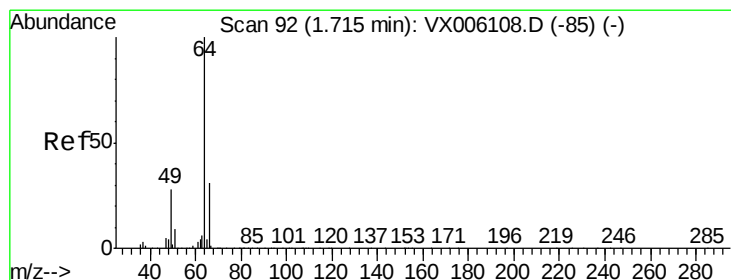
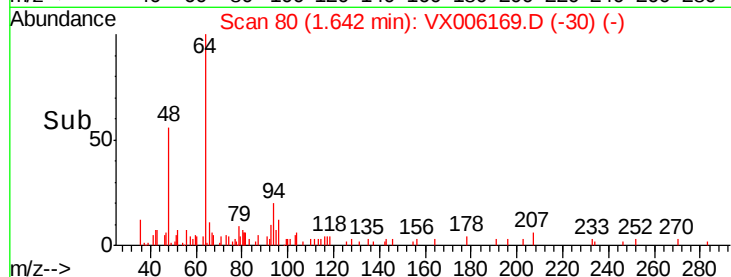
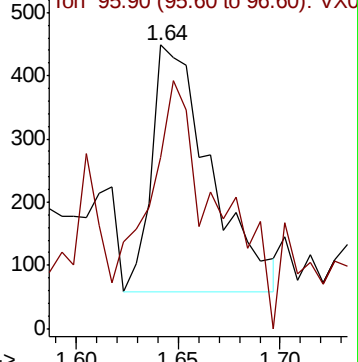
Ion Ratio Lower Upper

94 100

96 69.1 76.7 115.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX006169.D

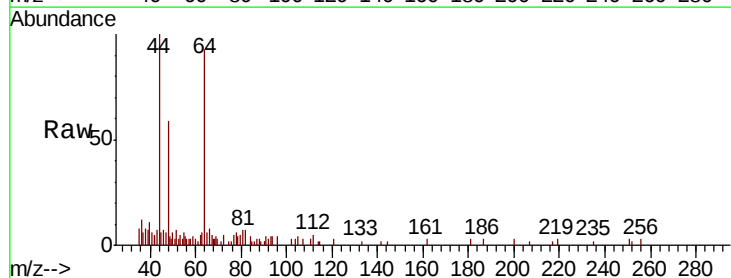
Acq: 26 Nov 2018 12:31

Tgt Ion: 64 Resp: 632

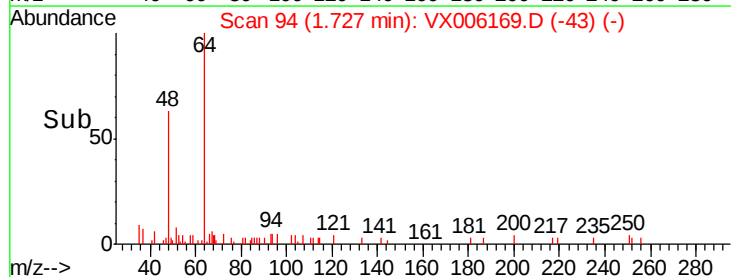
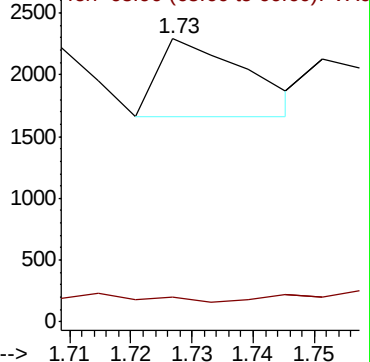
Ion Ratio Lower Upper

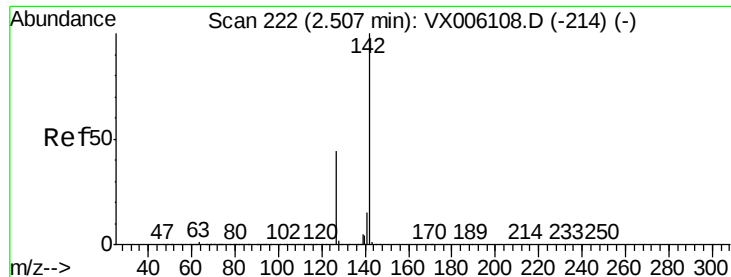
64 100

66 3.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

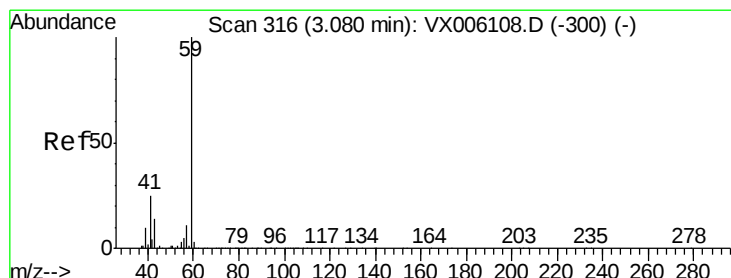
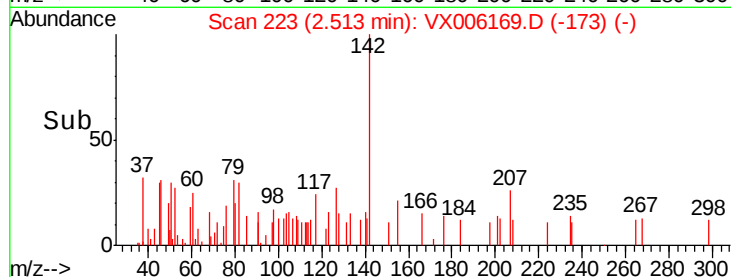
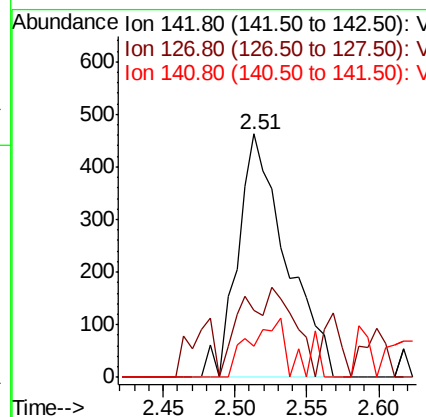
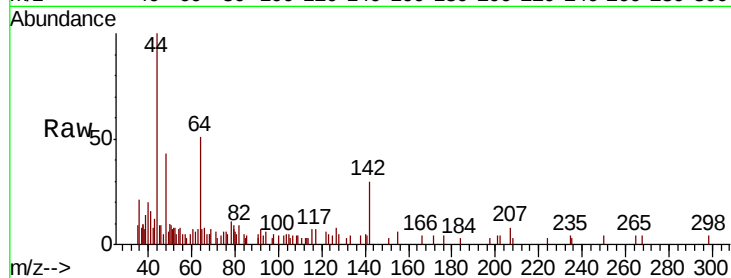




#10
Methyl Iodide
Concen: 0.385 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX006169.D
Acq: 26 Nov 2018 12:31

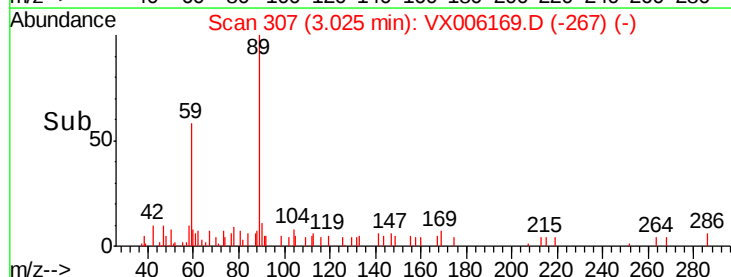
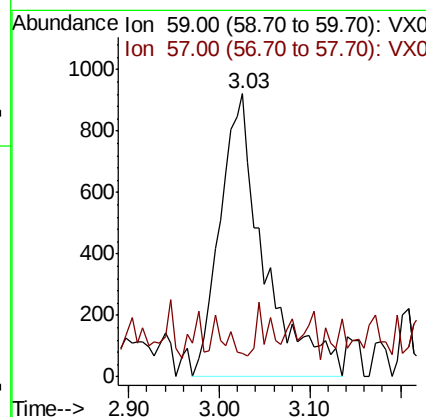
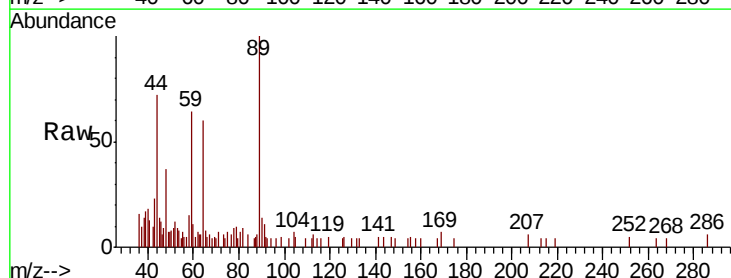
Instrument :
MSVOA_X
ClientSampleId :

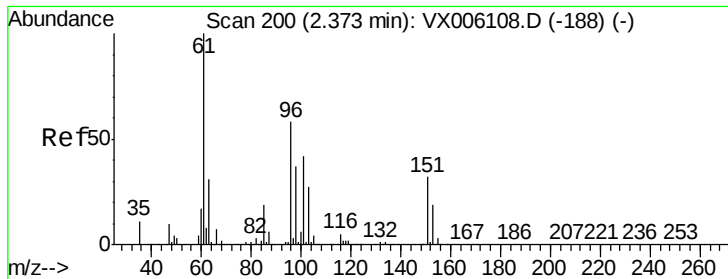
Tot Ion:142 Resp: 1079
Ion Ratio Lower Upper
142 100
127 19.6 36.0 54.0#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 4.192 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX006169.D
Acq: 26 Nov 2018 12:31

Tgt Ion: 59 Resp: 3116
Ion Ratio Lower Upper
59 100
57 5.3 8.7 13.1#





#12

1,1-Dichloroethene

Concen: 0.204 ug/l

RT: 2.37 min Scan# 199

Delta R.T. -0.01 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Instrument :

MSVOA_X

ClientSampleId :

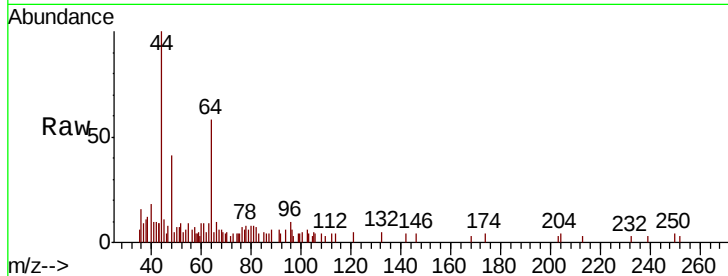
Tot Ion: 96 Resp: 444

Ion Ratio Lower Upper

96 100

61 33.9 138.2 207.4#

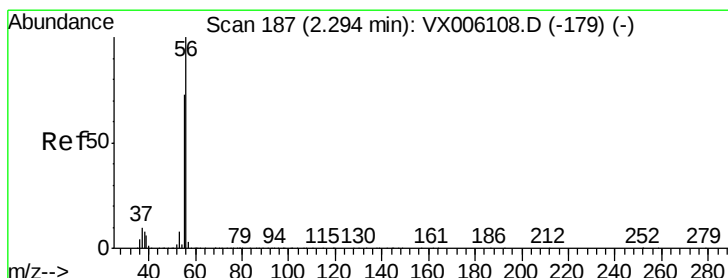
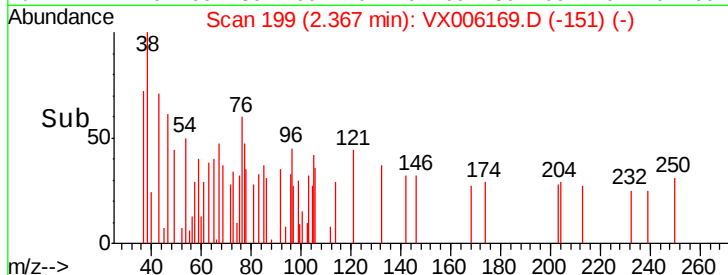
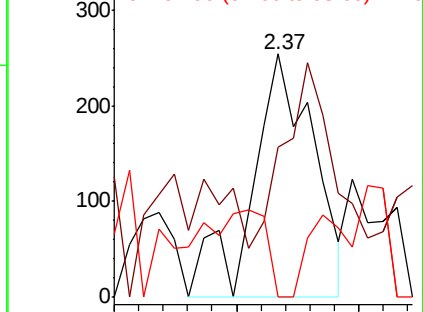
98 0.0 51.3 76.9#



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



#13

Acrolein

Concen: 0.434 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX006169.D

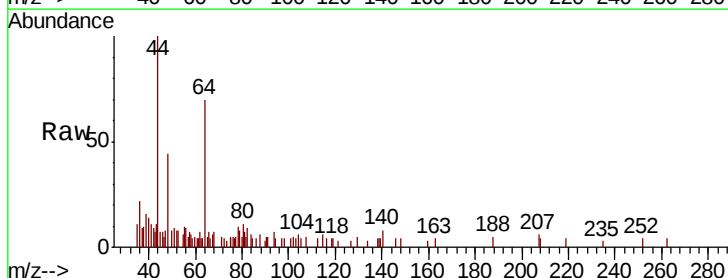
Acq: 26 Nov 2018 12:31

Tgt Ion: 56 Resp: 193

Ion Ratio Lower Upper

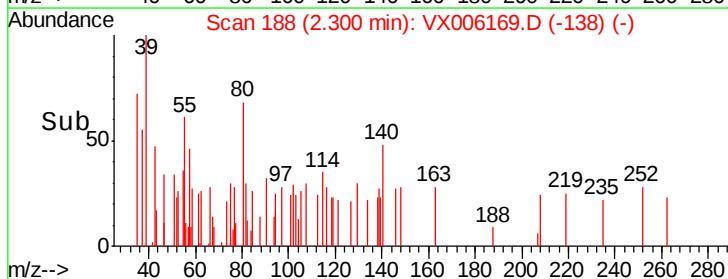
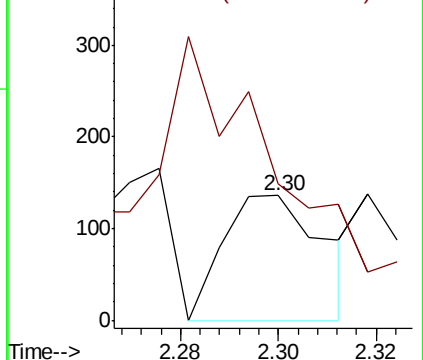
56 100

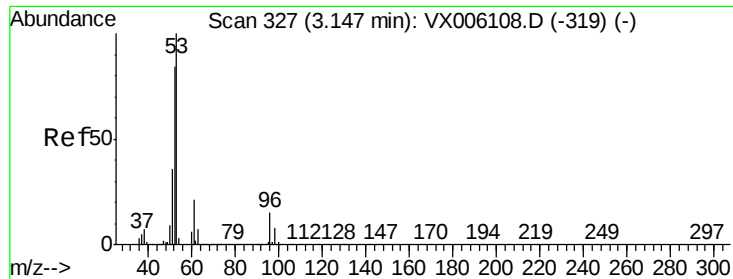
55 0.0 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.226 ug/l

RT: 3.15 min Scan# 327

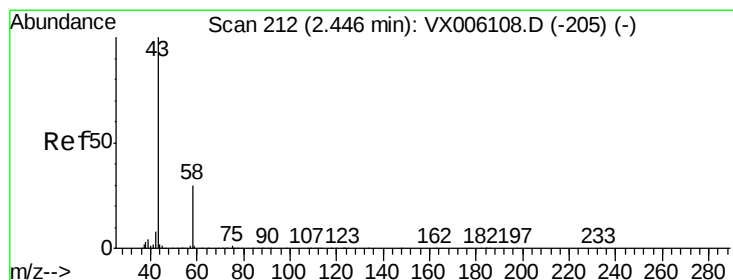
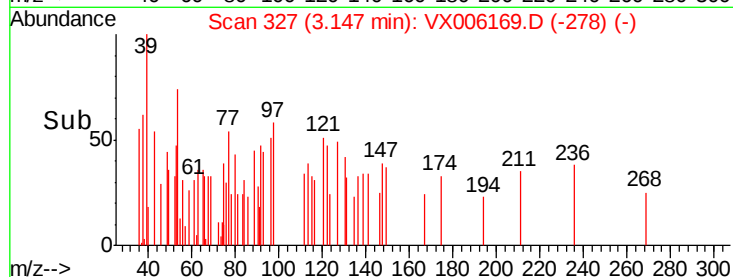
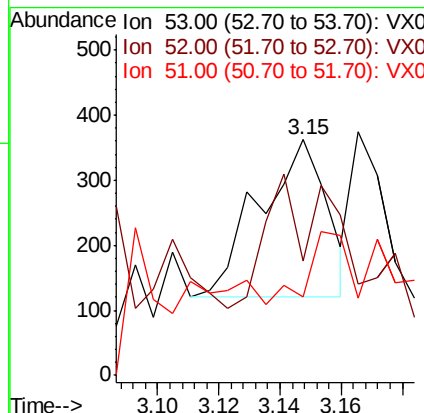
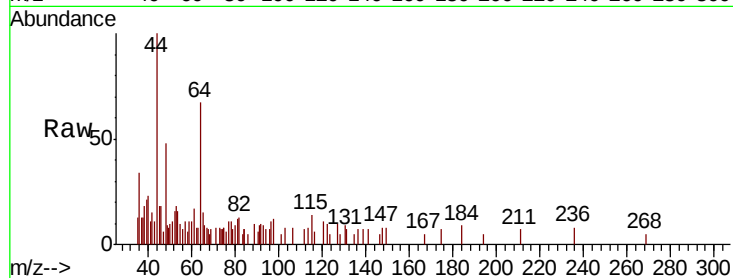
Delta R.T. 0.00 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	53	Resp:	371
Ion	Ratio	Lower	Upper
53	100		
52	42.3	66.4	99.6#
51	35.6	29.4	44.0



#16

Acetone

Concen: 0.694 ug/l

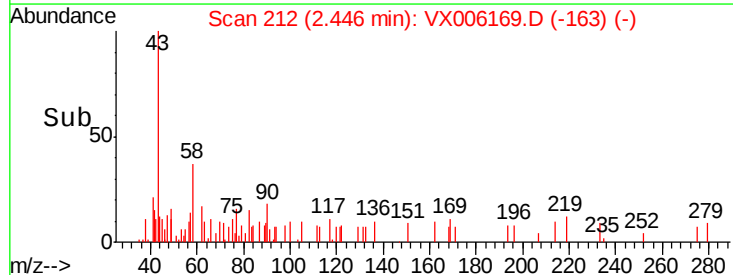
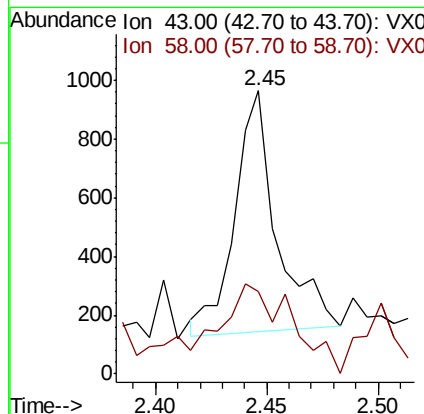
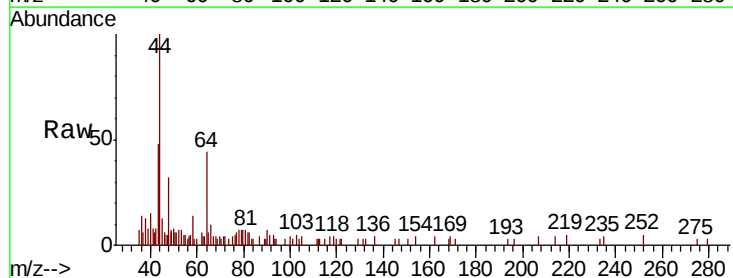
RT: 2.45 min Scan# 212

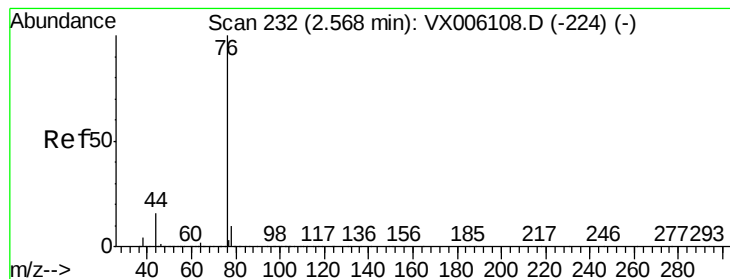
Delta R.T. 0.00 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Tgt Ion:	43	Resp:	1076
Ion	Ratio	Lower	Upper
43	100		
58	35.0	23.8	35.8





#17

Carbon Disulfide

Concen: 0.705 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Instrument :

MSVOA_X

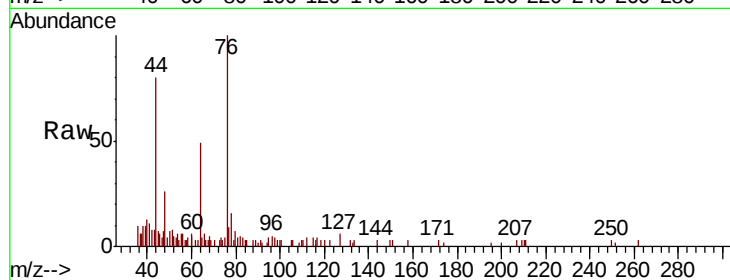
ClientSampleId :

Tot Ion: 76 Resp: 4146

Ion Ratio Lower Upper

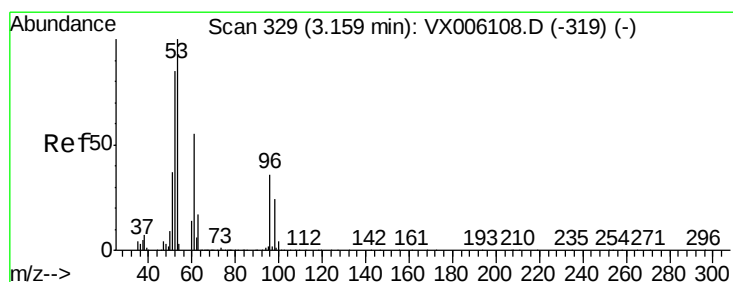
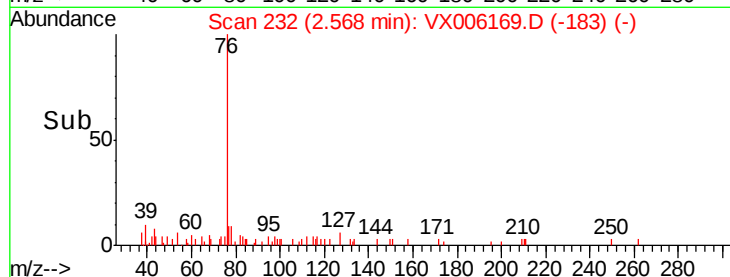
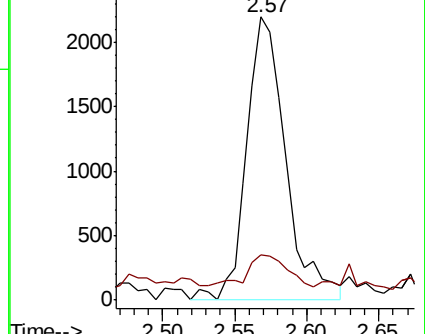
76 100

78 10.6 7.7 11.5



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#21

trans-1,2-Dichloroethene

Concen: 0.237 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

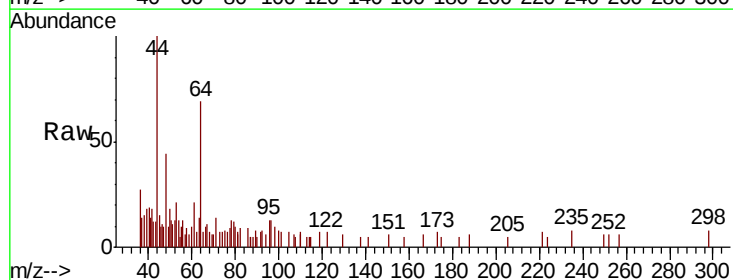
Tgt Ion: 96 Resp: 539

Ion Ratio Lower Upper

96 100

61 77.2 122.0 183.0#

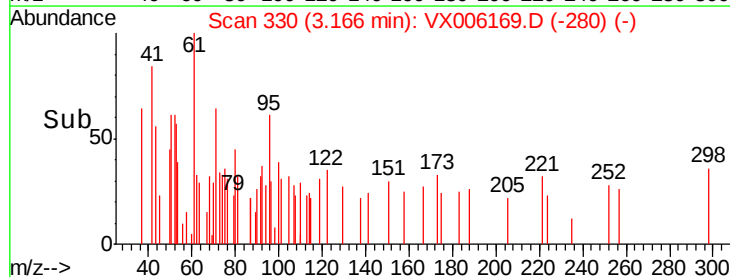
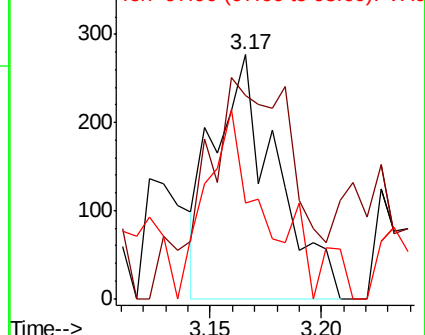
98 24.7 52.7 79.1#

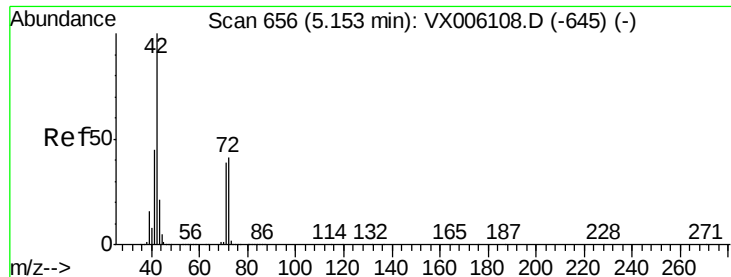


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#29

Tetrahydrofuran

Concen: 0.209 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.00 min

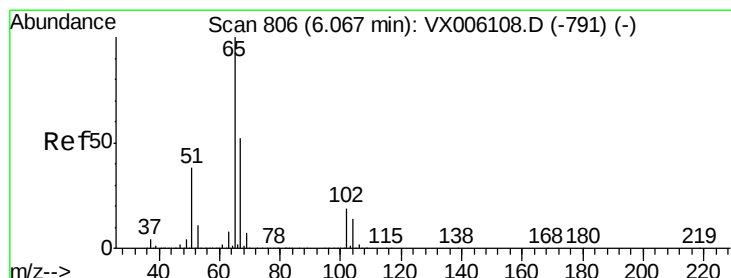
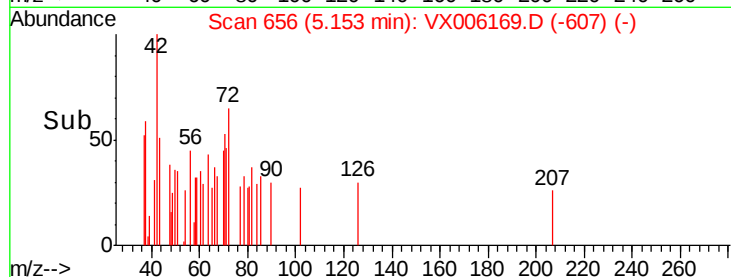
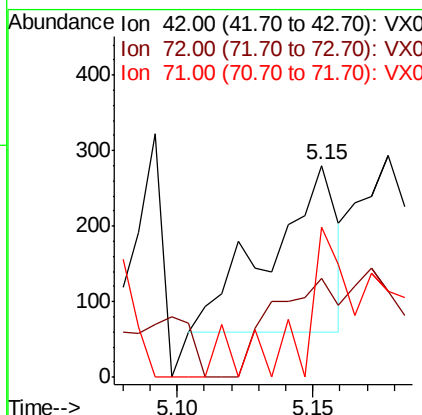
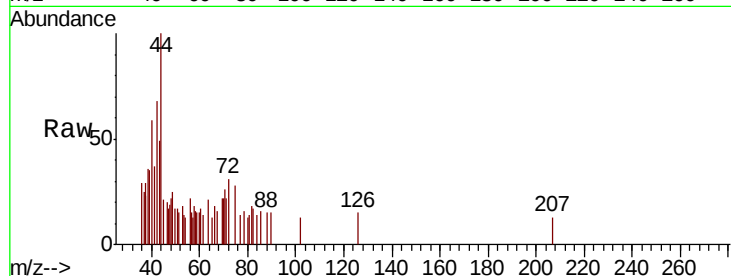
Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 42 Resp: 376

Ion	Ratio	Lower	Upper
42	100		
72	58.0	33.0	49.6#
71	49.2	31.0	46.4#



#33

1,2-Dichloroethane-d4

Concen: 53.738 ug/l

RT: 6.07 min Scan# 806

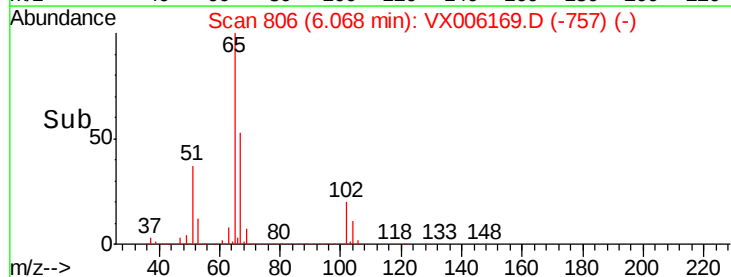
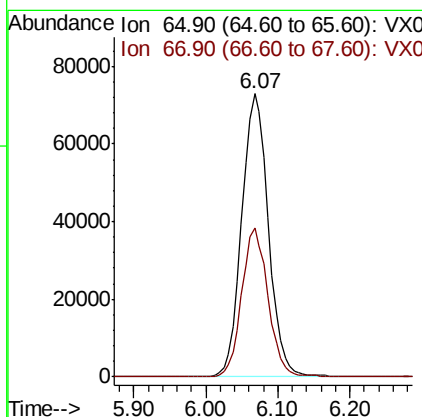
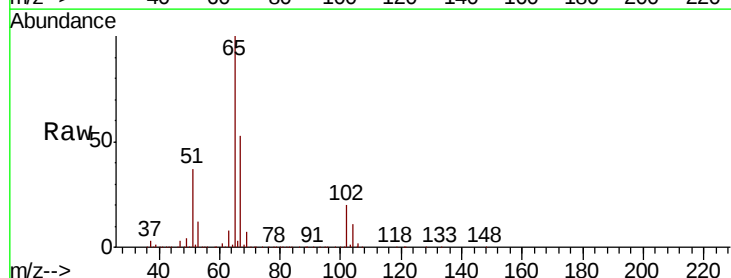
Delta R.T. 0.00 min

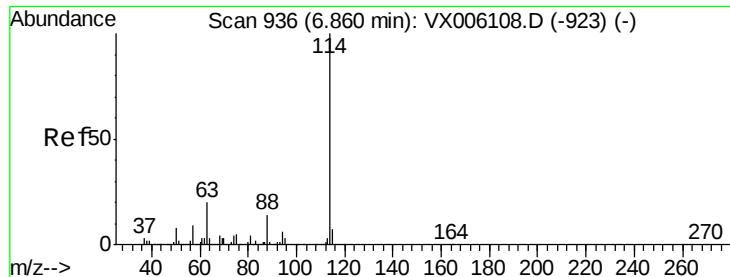
Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Tgt Ion: 65 Resp: 187777

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Instrument :

MSVOA_X

ClientSampleId :

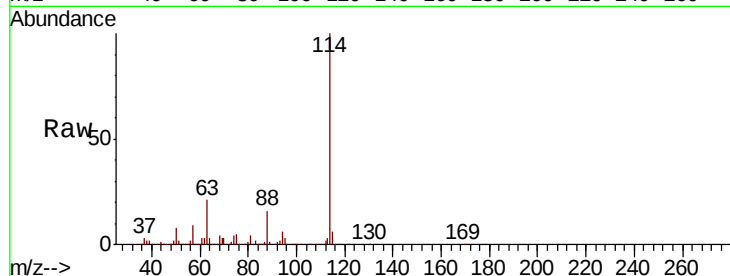
Tot Ion:114 Resp: 442683

Ion Ratio Lower Upper

114 100

63 20.9 0.0 39.2

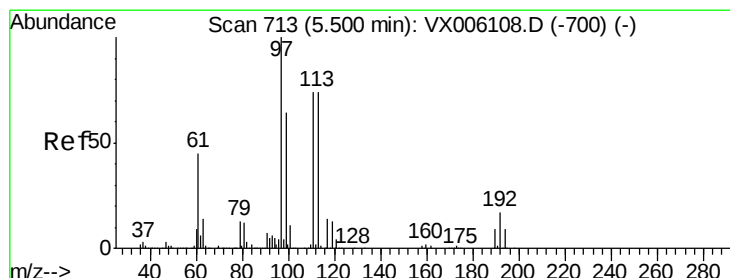
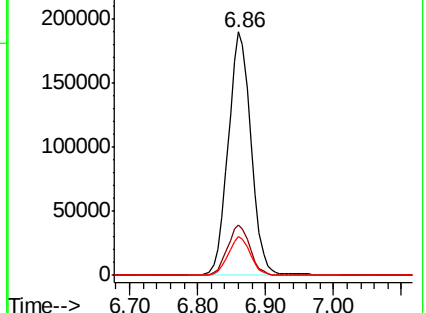
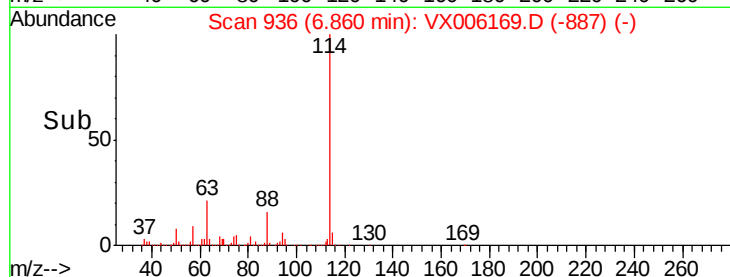
88 16.0 0.0 28.6



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: 53.779 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

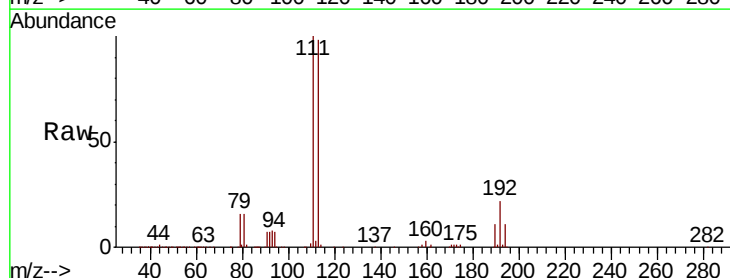
Tgt Ion:113 Resp: 152821

Ion Ratio Lower Upper

113 100

111 100.9 81.5 122.3

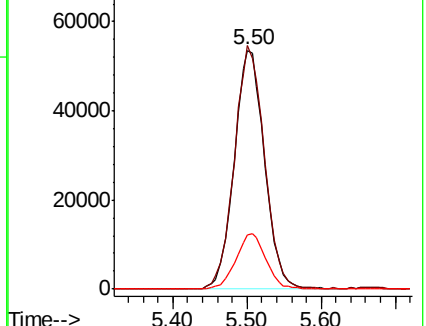
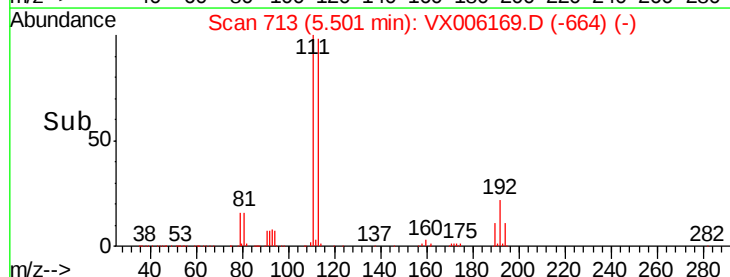
192 22.9 18.6 28.0

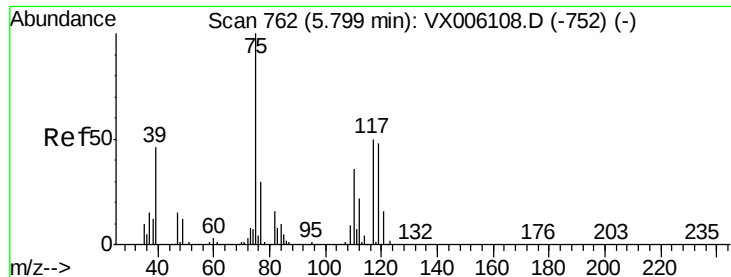


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.214 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Instrument :

MSVOA_X

ClientSampled :

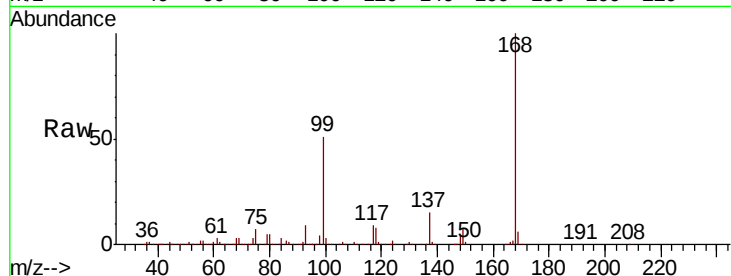
Tot Ion: 75 Resp: 20998

Ion Ratio Lower Upper

75 100

110 10.0 17.8 53.3#

77 0.5 24.5 36.7#

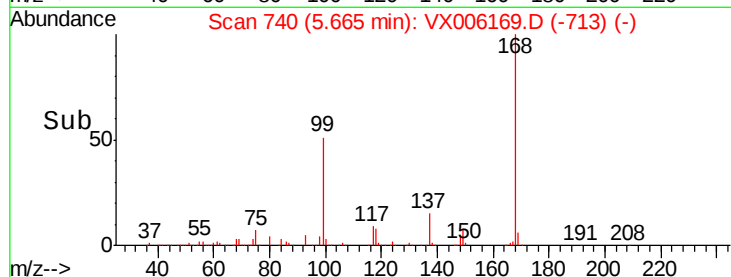


Abundance Ion 74.90 (74.60 to 75.60): VX006108.D (-752) (-)

Ion 109.90 (109.60 to 110.60): VX006108.D (-752) (-)

Ion 76.90 (76.60 to 77.60): VX006108.D (-752) (-)

Time-->

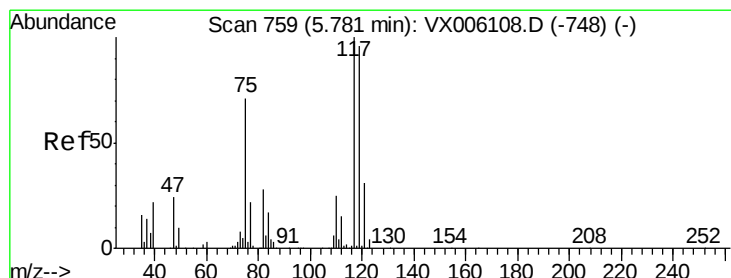


Abundance Ion 74.90 (74.60 to 75.60): VX006169.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX006169.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX006169.D (-713) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 7.360 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

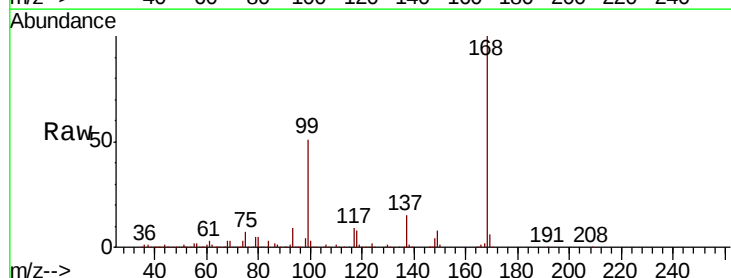
Tgt Ion: 117 Resp: 27859

Ion Ratio Lower Upper

117 100

119 6.1 76.3 114.5#

121 0.5 24.7 37.1#

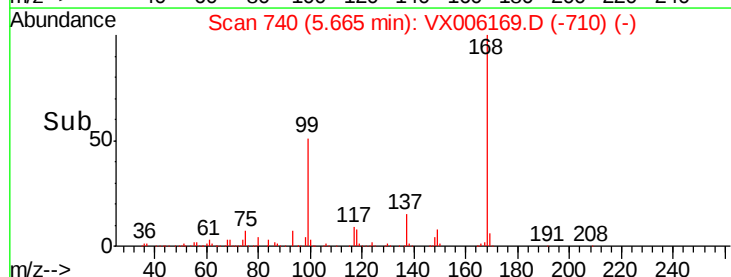


Abundance Ion 116.80 (116.50 to 117.50): VX006108.D (-748) (-)

Ion 118.80 (118.50 to 119.50): VX006108.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX006108.D (-748) (-)

Time-->

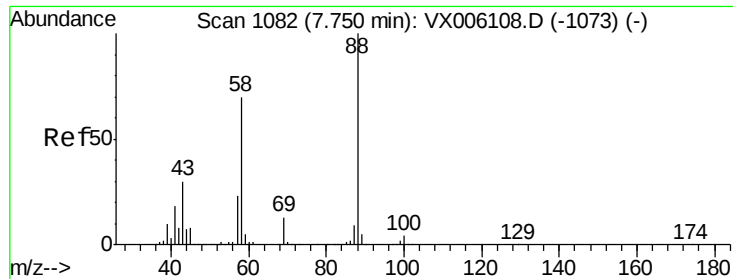


Abundance Ion 116.80 (116.50 to 117.50): VX006169.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX006169.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX006169.D (-710) (-)

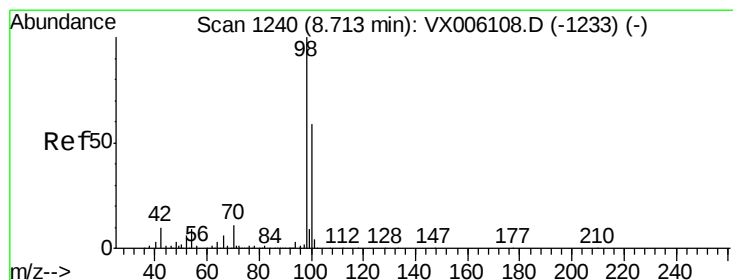
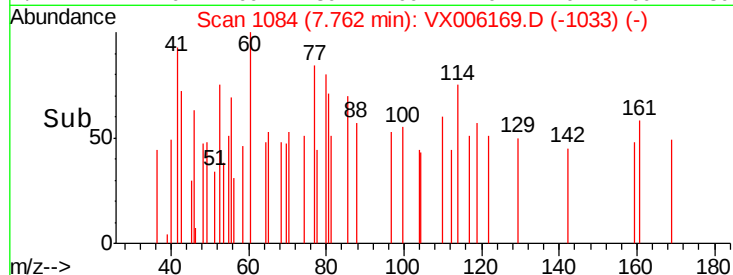
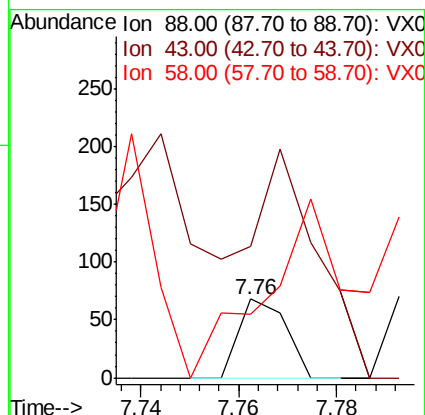
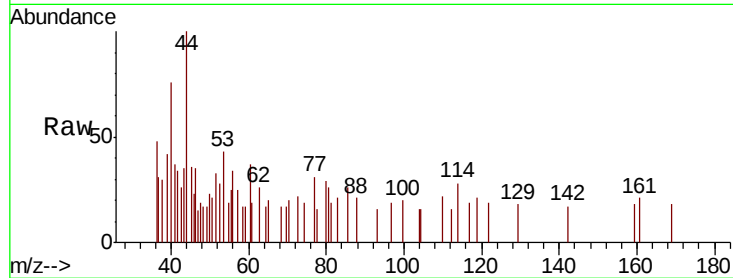
Time-->



#49
1,4-Dioxane
Concen: 0.500 ug/l
RT: 7.76 min Scan# 1084
Delta R.T. 0.01 min
Lab File: VX006169.D
Acq: 26 Nov 2018 12:31

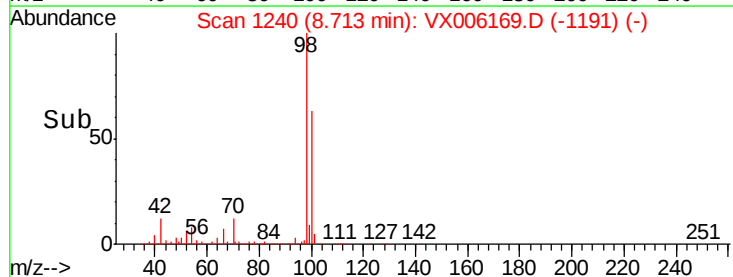
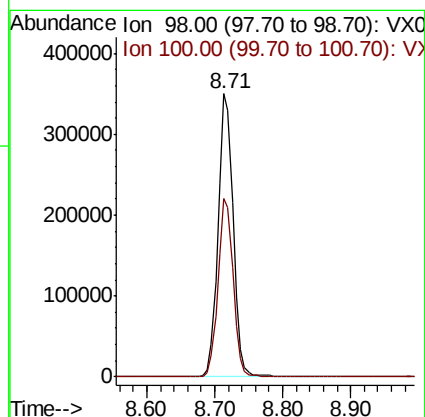
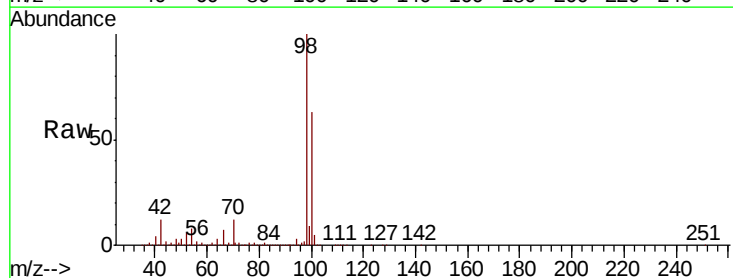
Instrument :
MSVOA_X
ClientSampled :

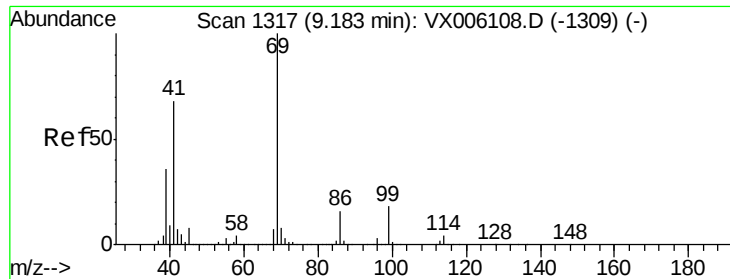
Tot Ion: 88 Resp: 45
Ion Ratio Lower Upper
88 100
43 408.9 26.7 40.1#
58 402.2 58.5 87.7#



#50
Toluene-d8
Concen: 49.682 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006169.D
Acq: 26 Nov 2018 12:31

Tgt Ion: 98 Resp: 538486
Ion Ratio Lower Upper
98 100
100 63.2 51.0 76.4





#56

Ethyl methacrylate

Concen: 2.885 ug/l

RT: 9.17 min Scan# 1315

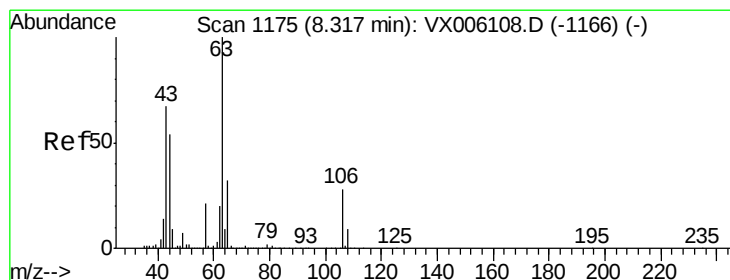
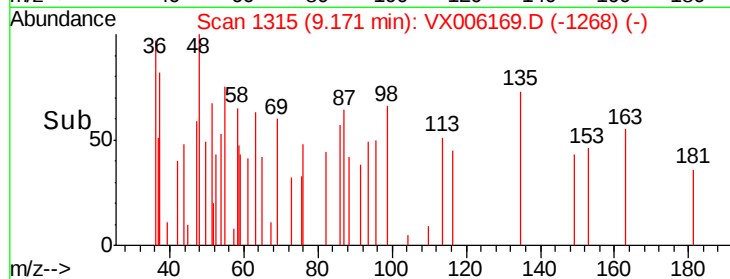
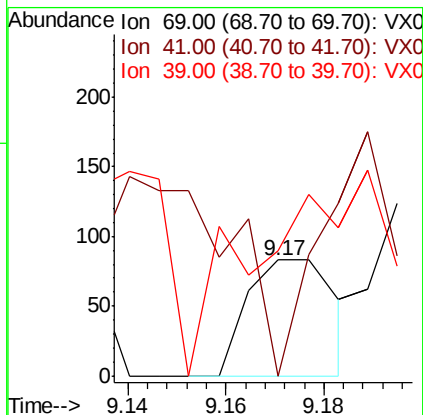
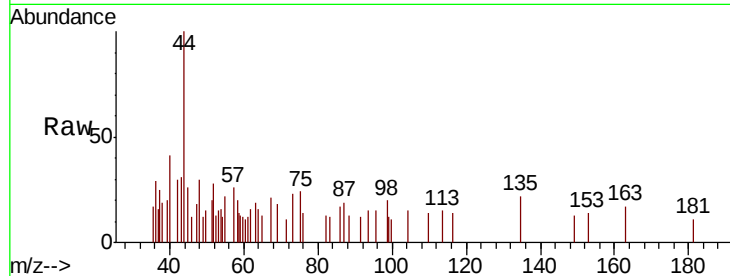
Delta R.T. -0.01 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	69	Resp:	103
Ion	Ratio	Lower	Upper
69	100		
41	0.0	56.2	84.4#
39	0.0	29.4	44.0#



#58

2-Chloroethyl Vinyl ether

Concen: 6.785 ug/l

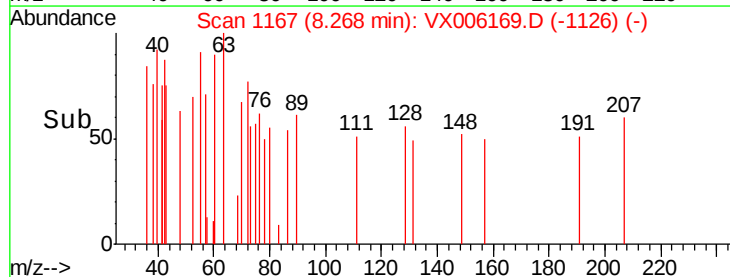
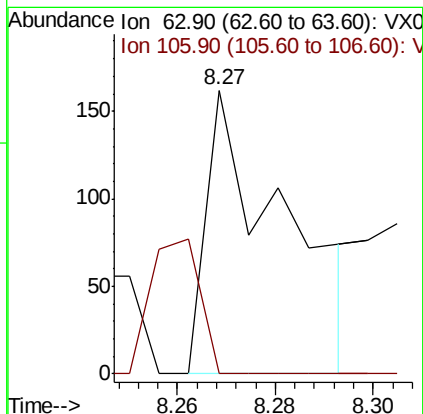
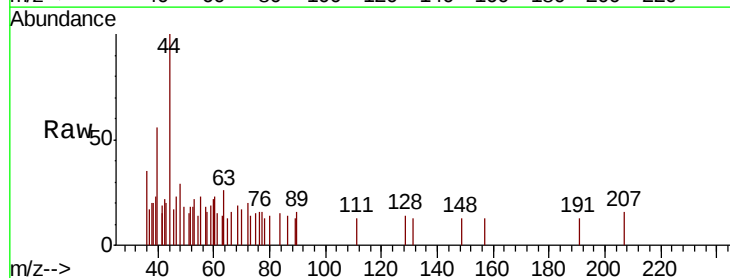
RT: 8.27 min Scan# 1167

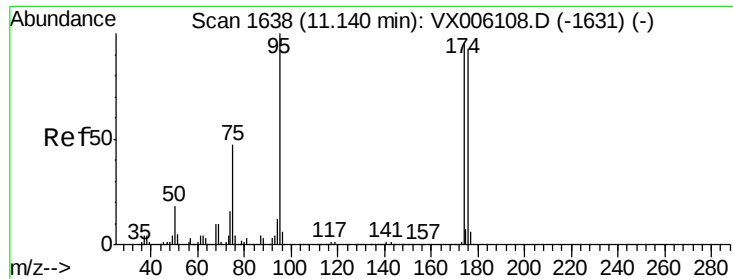
Delta R.T. -0.05 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Tgt Ion:	63	Resp:	180
Ion	Ratio	Lower	Upper
63	100		
106	30.0	21.7	32.5





#62

4-Bromofluorobenzene

Concen: 44.278 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Instrument :

MSVOA_X

ClientSampleId :

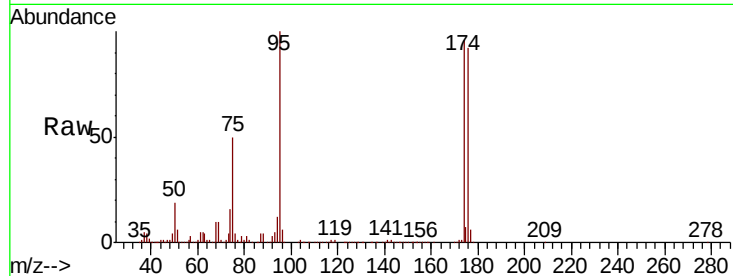
Tot Ion: 95 Resp: 180063

Ion Ratio Lower Upper

95 100

174 92.8 0.0 184.4

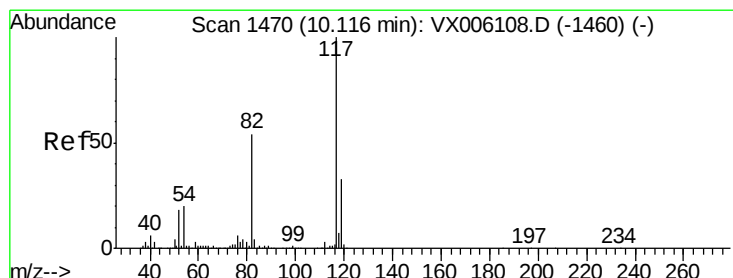
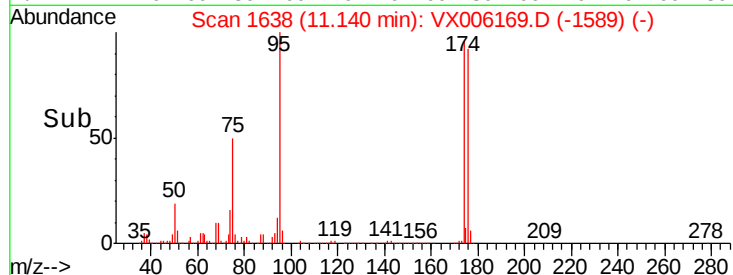
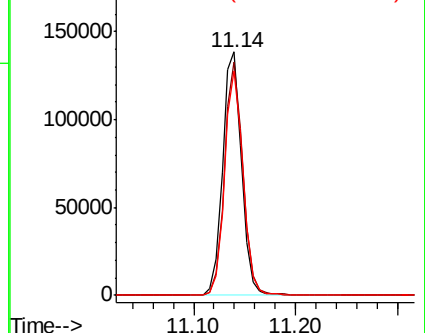
176 89.3 0.0 179.0



Abundance Ion 94.90 (94.60 to 95.60): VX006108.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006108.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006108.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

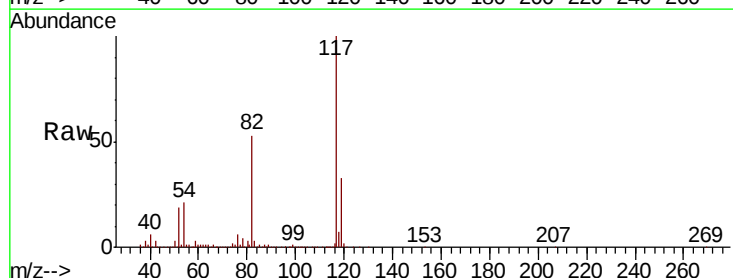
Tgt Ion: 117 Resp: 408488

Ion Ratio Lower Upper

117 100

82 52.7 43.0 64.4

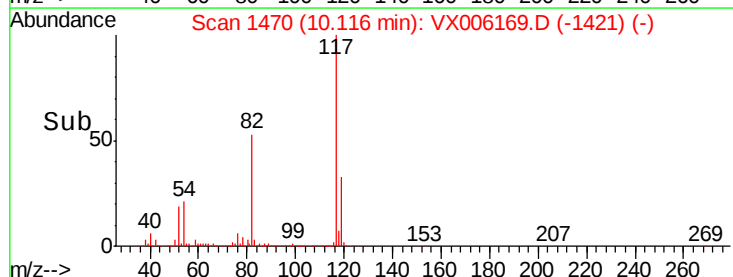
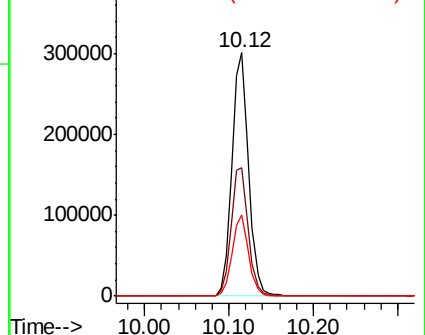
119 33.1 26.1 39.1

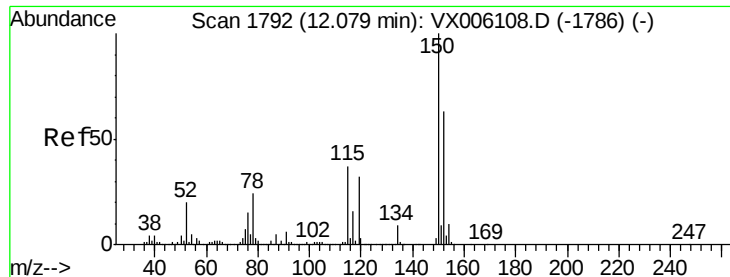


Abundance Ion 116.90 (116.60 to 117.60): VX006108.D (-1460) (-)

Ion 82.00 (81.70 to 82.70): VX006108.D (-1460) (-)

Ion 118.90 (118.60 to 119.60): VX006108.D (-1460) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Instrument :

MSVOA_X

ClientSampleId :

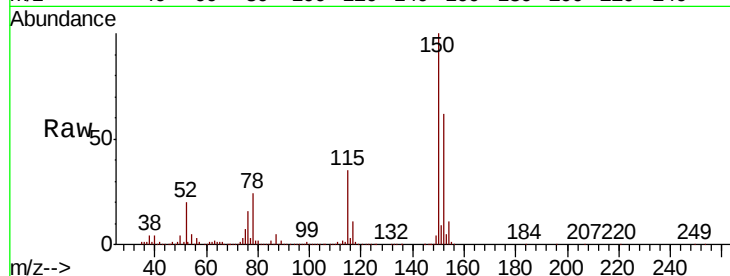
Tot Ion:152 Resp: 192586

Ion Ratio Lower Upper

152 100

115 56.5 39.0 116.9

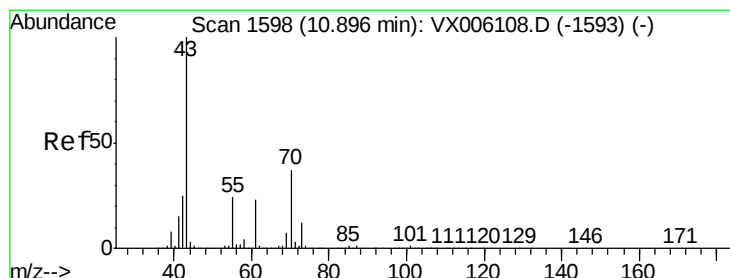
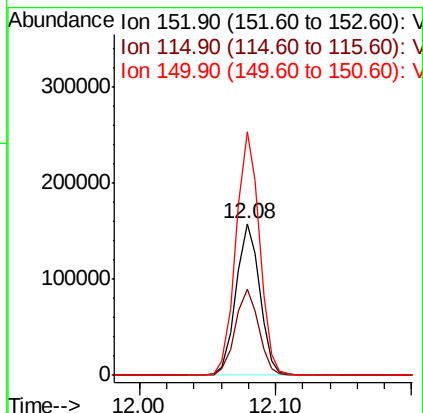
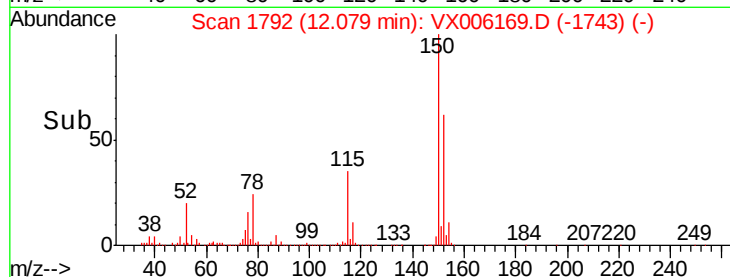
150 159.0 0.0 346.6



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: 2.252 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Tgt Ion: 43 Resp: 367

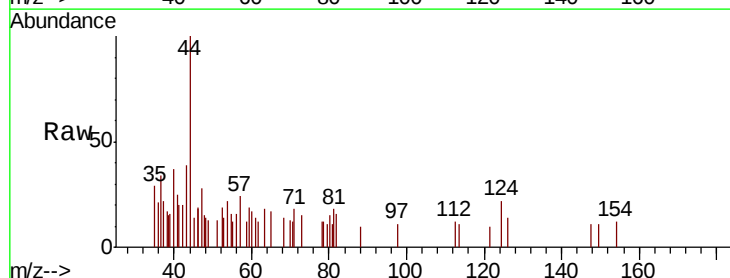
Ion Ratio Lower Upper

43 100

70 16.1 31.8 47.6#

55 39.8 19.5 29.3#

61 0.0 18.6 27.8#

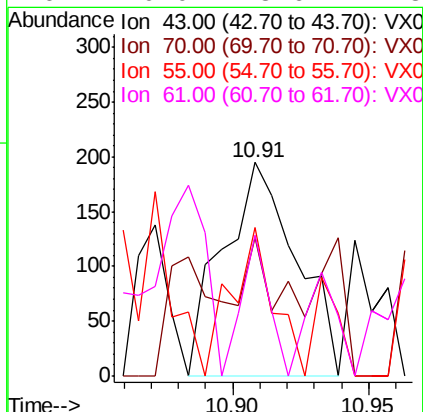
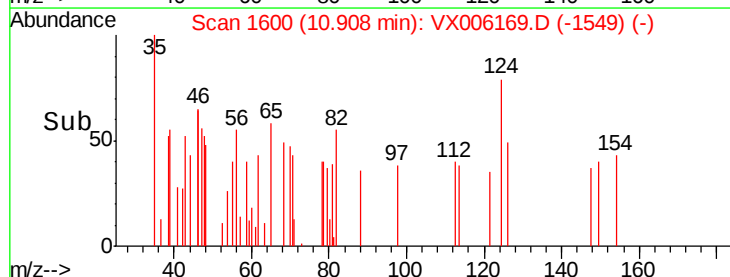


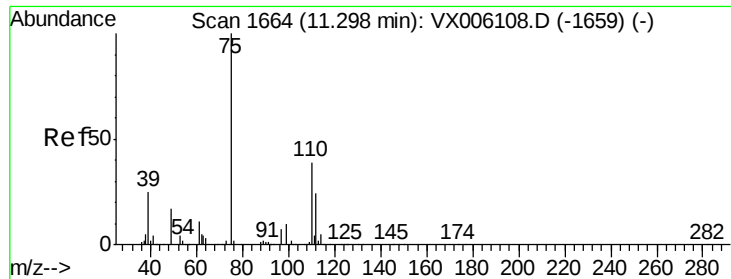
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.853 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Instrument :

MSVOA_X

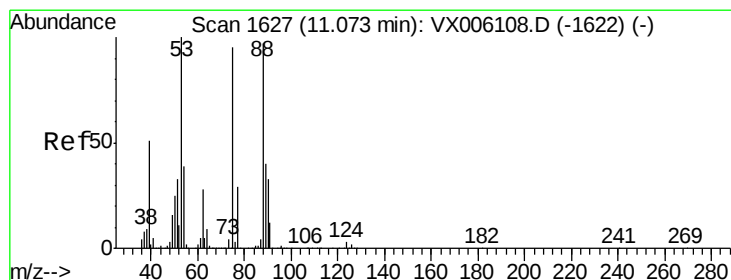
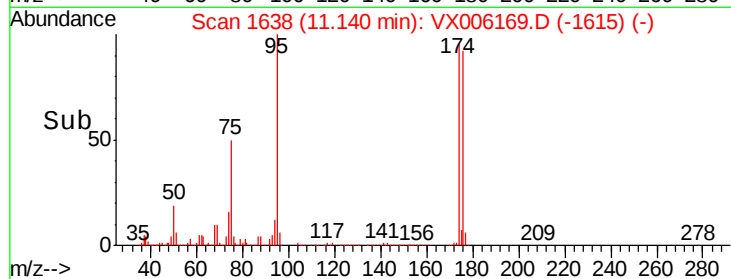
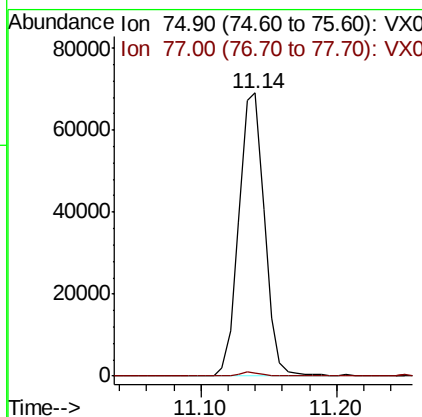
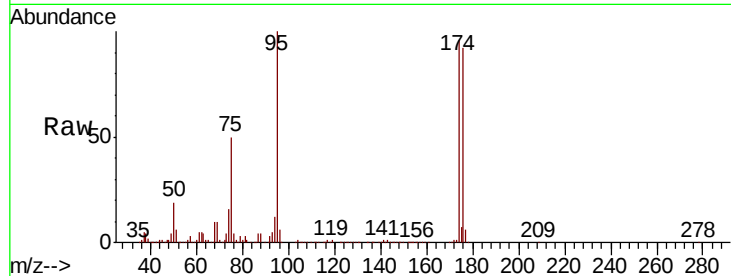
ClientSampleId :

Tot Ion: 75 Resp: 90609

Ion Ratio Lower Upper

75 100

77 1.3 19.6 58.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 77.293 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

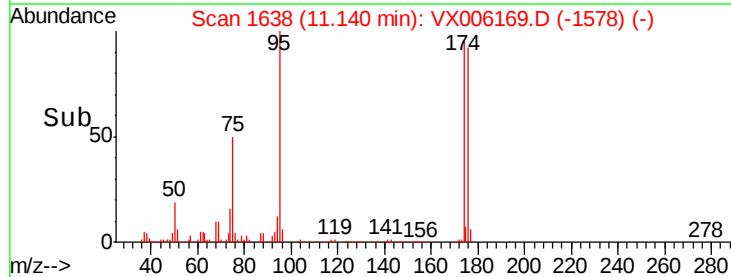
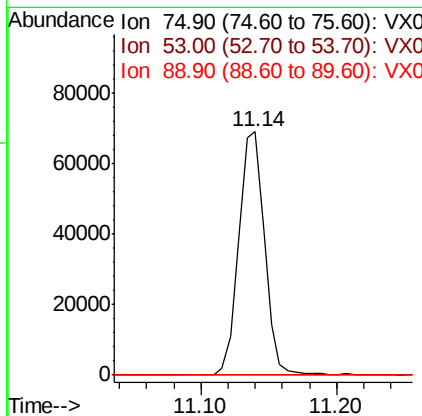
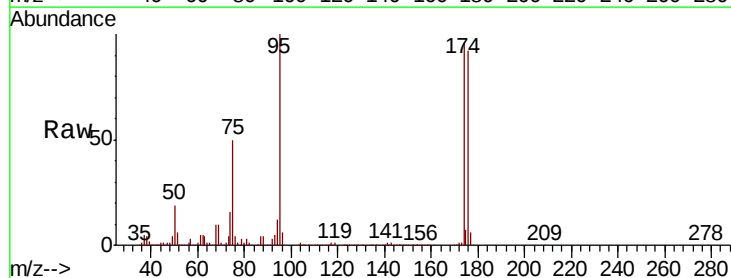
Tgt Ion: 75 Resp: 90609

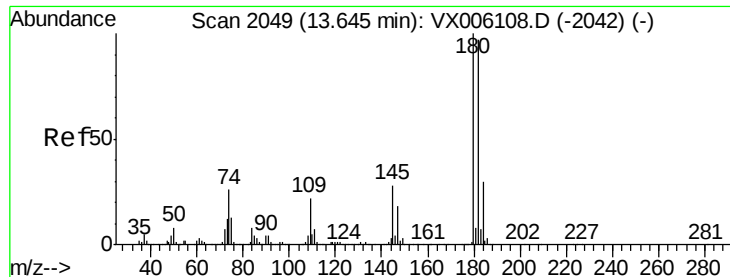
Ion Ratio Lower Upper

75 100

53 0.5 85.3 127.9#

89 0.1 37.2 55.8#





#93

1,2,4-Trichlorobenzene

Concen: 0.242 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. 0.00 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

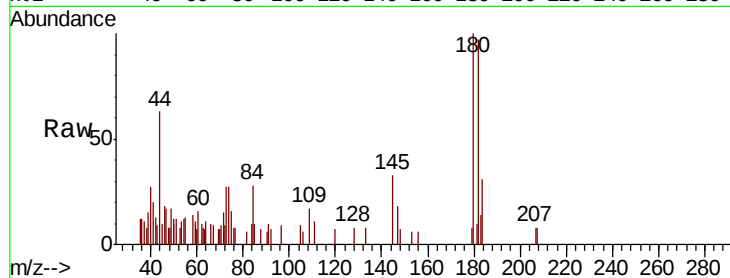
Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:180 Resp: 1049

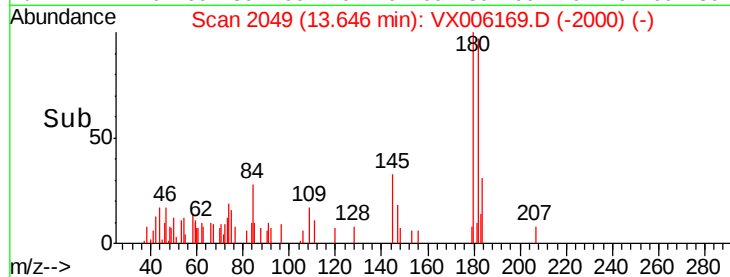
Ion	Ratio	Lower	Upper
180	100		
182	91.4	48.2	144.6
145	31.8	14.1	42.2



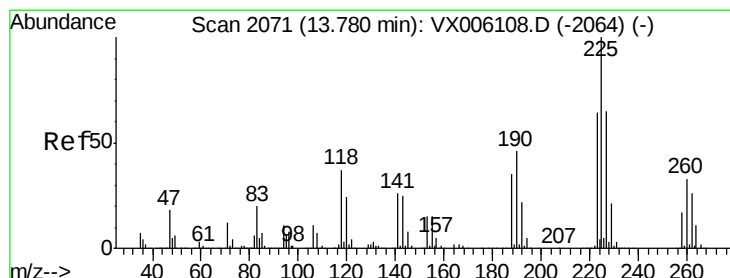
Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time-->



#94

Hexachlorobutadiene

Concen: 0.241 ug/l

RT: 13.78 min Scan# 2071

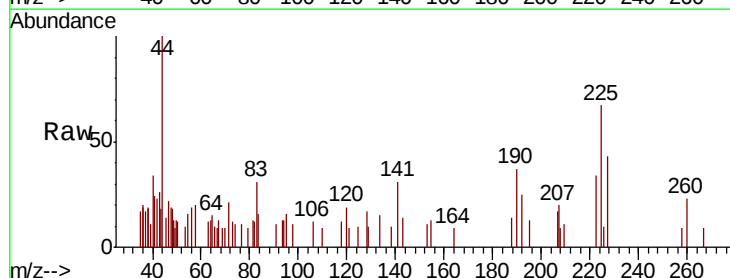
Delta R.T. 0.00 min

Lab File: VX006169.D

Acq: 26 Nov 2018 12:31

Tgt Ion:225 Resp: 510

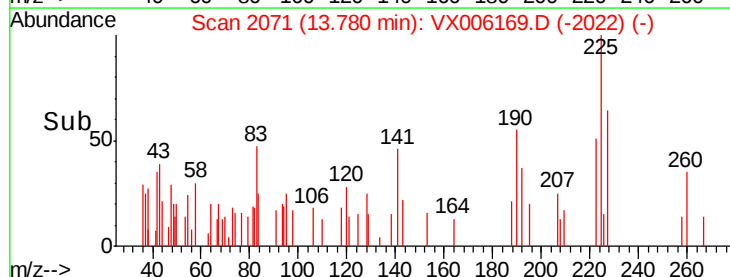
Ion	Ratio	Lower	Upper
225	100		
223	56.9	31.2	93.6
227	76.7	32.4	97.2



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



Time-->