

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121020\
 Data File : VX019850.D
 Acq On : 11 Dec 2020 01:57
 Operator : JC/MD
 Sample : L4983-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR1-C-BOTTOM

Quant Time: Dec 11 03:04:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	320580	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	535669	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	495168	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	212418	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	204560	48.55	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	97.10%
35) Dibromofluoromethane	5.46	113	165204	47.72	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.44%
50) Toluene-d8	8.70	98	657744	49.77	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.54%
62) 4-Bromofluorobenzene	11.12	95	229504	45.62	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	91.24%

Target Compounds

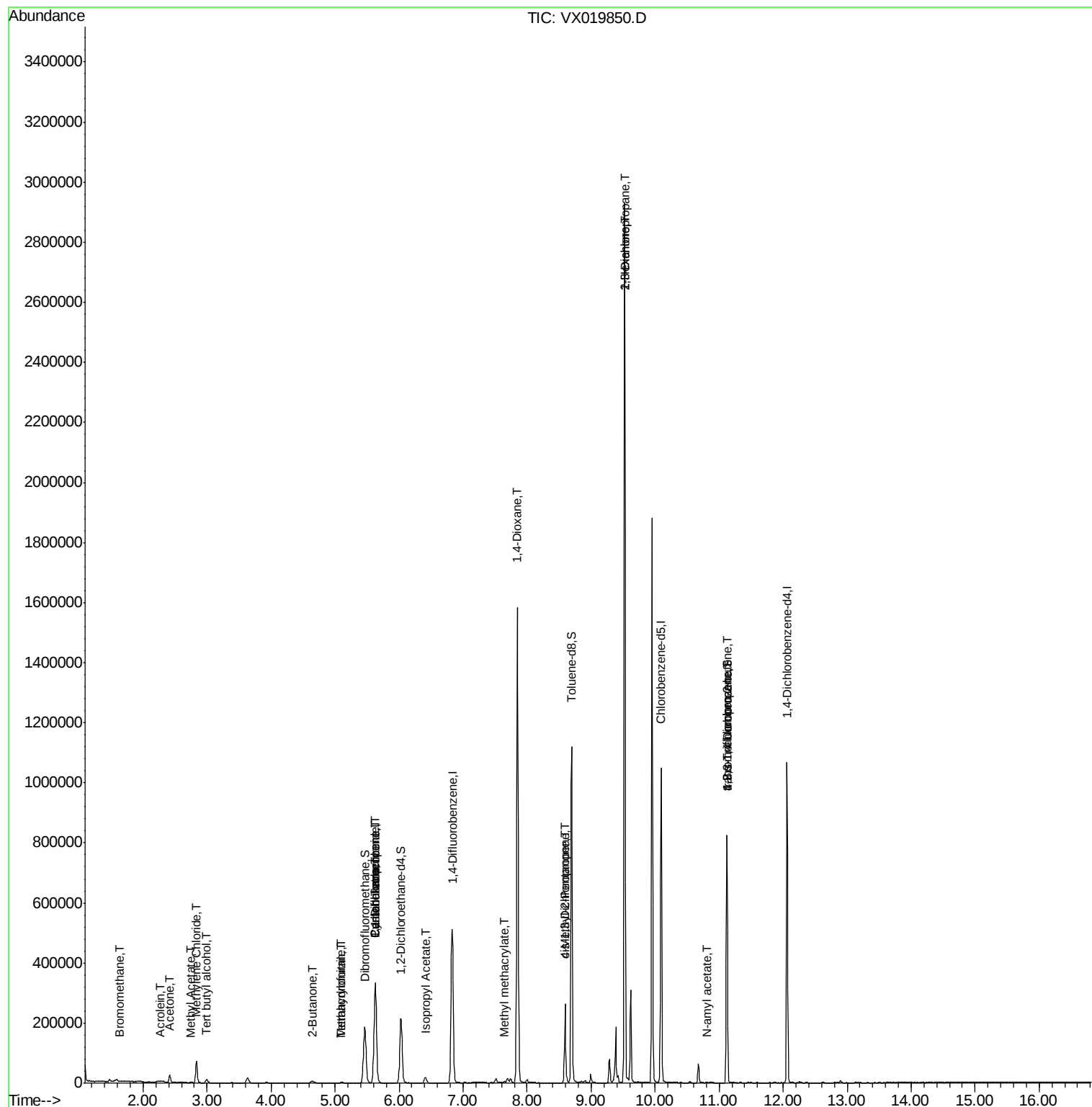
					Qvalue
5) Bromomethane	1.64	94	562	0.465 ug/l #	79
11) Tert butyl alcohol	2.99	59	6307	4.717 ug/l #	81
13) Acrolein	2.27	56	362	0.778 ug/l #	68
16) Acetone	2.42	43	25486	16.093 ug/l	96
18) Methyl Acetate	2.75	43	1419	0.366 ug/l #	89
20) Methylene Chloride	2.83	84	34598	8.386 ug/l	98
25) 2-Butanone	4.64	43	3681	1.513 ug/l	97
29) Tetrahydrofuran	5.09	42	1158	0.739 ug/l #	85
31) Cyclohexane	5.63	56	6280	1.198 ug/l #	1
36) 1,1-Dichloropropene	5.63	75	24029	4.964 ug/l #	48
38) Carbon Tetrachloride	5.63	117	31255	6.594 ug/l #	17
41) Methacrylonitrile	5.10	41	726	0.271 ug/l #	31
43) Isopropyl Acetate	6.41	43	24498	3.083 ug/l	98
48) Methyl methacrylate	7.65	41	6093	1.559 ug/l #	10
49) 1,4-Dioxane	7.85	88	258	2.725 ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	83485	17.209 ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	44254	7.413 ug/l #	60
57) 1,3-Dichloropropane	9.52	76	27261	4.284 ug/l #	43
59) 2-Hexanone	9.52	43	322547	85.778 ug/l #	47
74) N-amyl acetate	10.81	43	1197	0.206 ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	110226	23.136 ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	110226	66.883 ug/l #	12

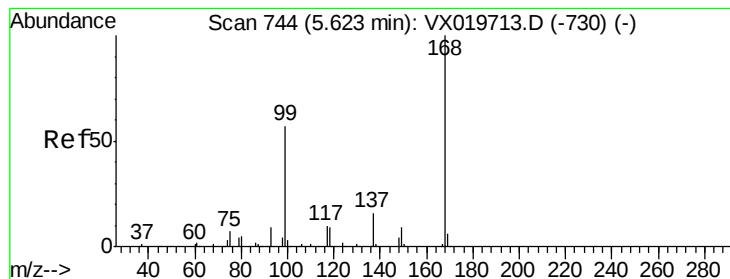
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

Instrument :

MSVOA_X

ClientSampleId :

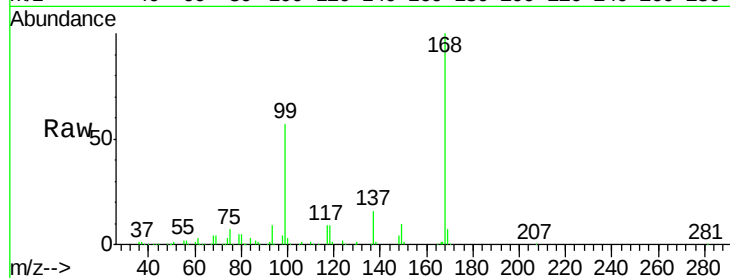
TR1-C-BOTTOM

Tgt Ion:168 Resp: 320580

Ion Ratio Lower Upper

168 100

99 57.2 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

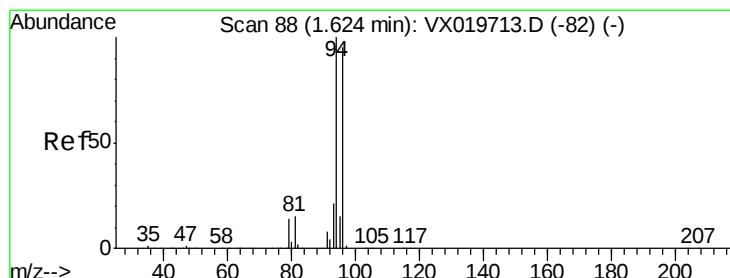
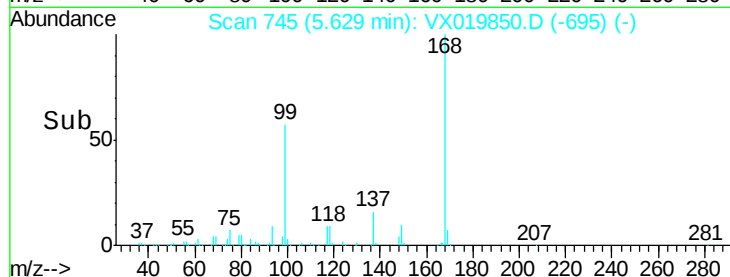
5.63

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.465 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX019850.D

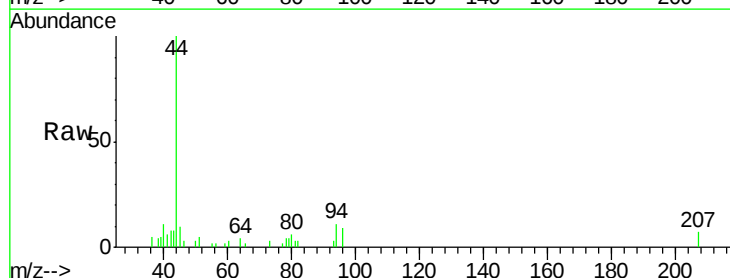
Acq: 11 Dec 2020 01:57

Tgt Ion: 94 Resp: 562

Ion Ratio Lower Upper

94 100

96 75.3 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

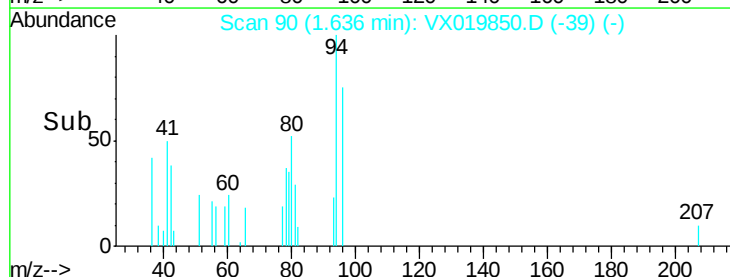
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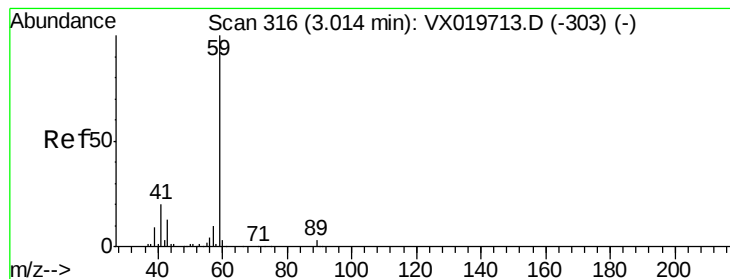
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: 4.717 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

Instrument :

MSVOA_X

ClientSampleId :

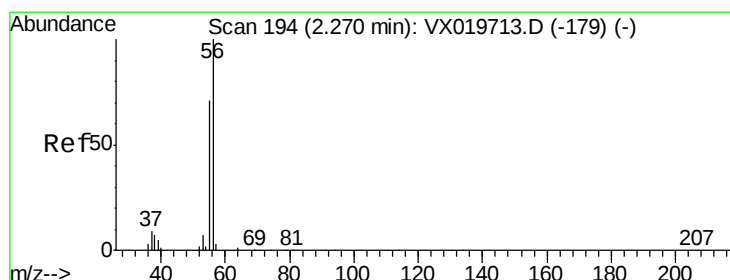
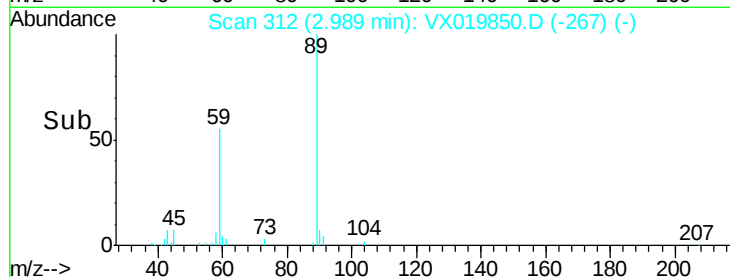
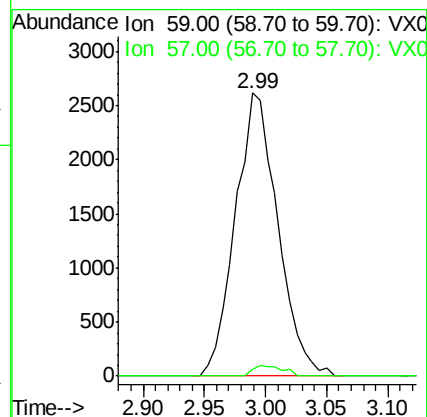
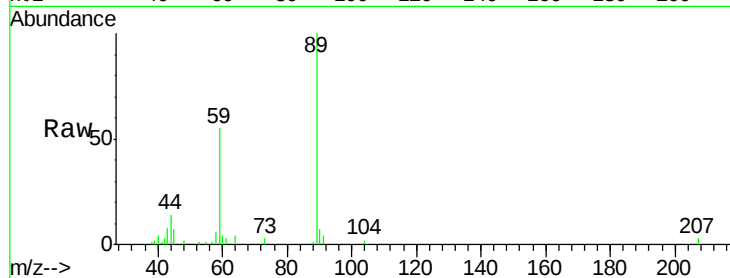
TR1-C-BOTTOM

Tgt Ion: 59 Resp: 6307

Ion Ratio Lower Upper

59 100

57 2.7 7.8 11.8#



#13

Acrolein

Concen: 0.778 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019850.D

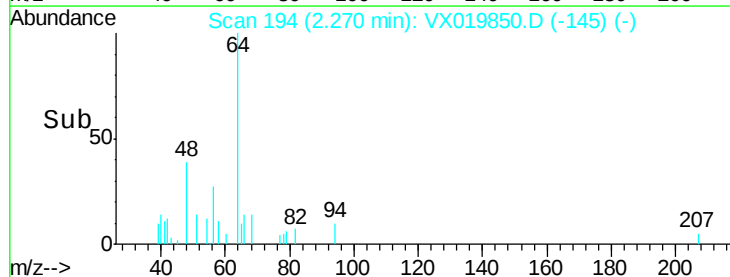
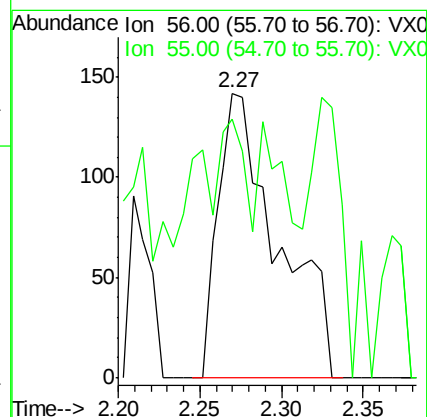
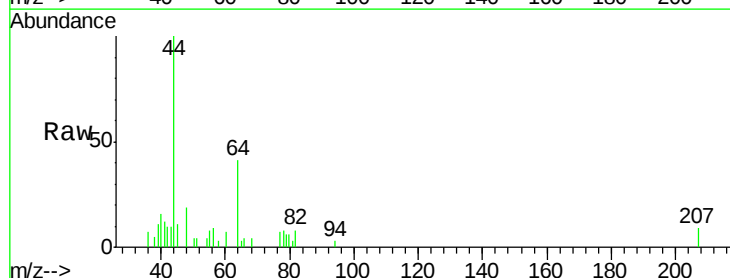
Acq: 11 Dec 2020 01:57

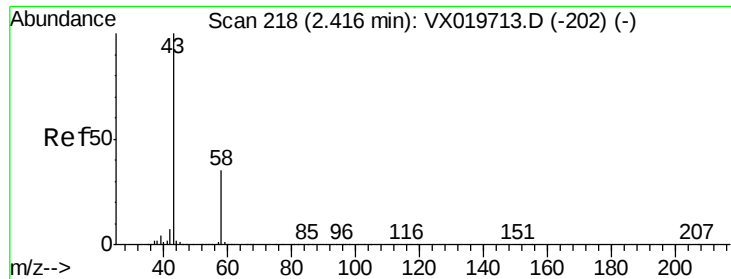
Tgt Ion: 56 Resp: 362

Ion Ratio Lower Upper

56 100

55 44.2 56.4 84.6#





#16

Acetone

Concen: 16.093 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

Instrument :

MSVOA_X

ClientSampleId :

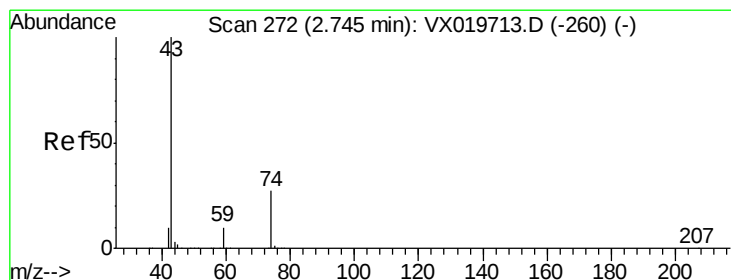
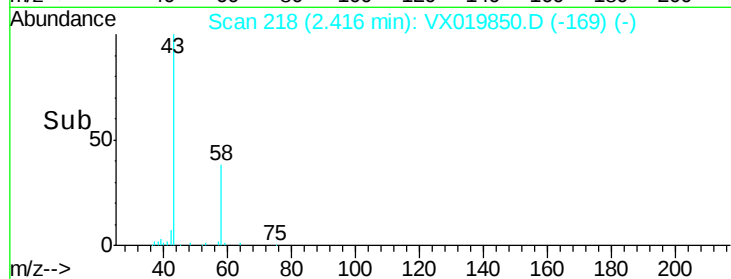
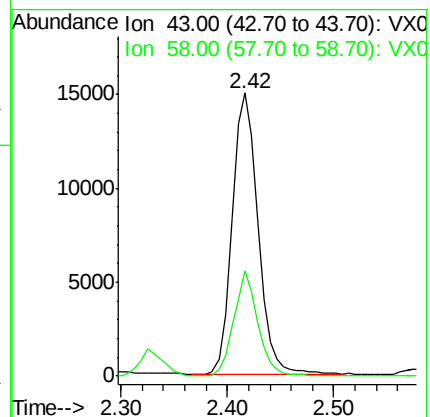
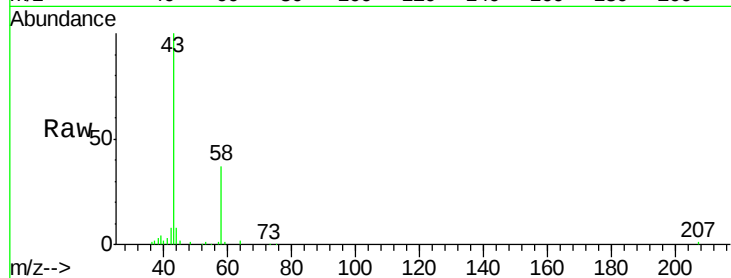
TR1-C-BOTTOM

Tgt Ion: 43 Resp: 25486

Ion Ratio Lower Upper

43 100

58 37.4 27.8 41.8



#18

Methyl Acetate

Concen: 0.366 ug/l

RT: 2.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VX019850.D

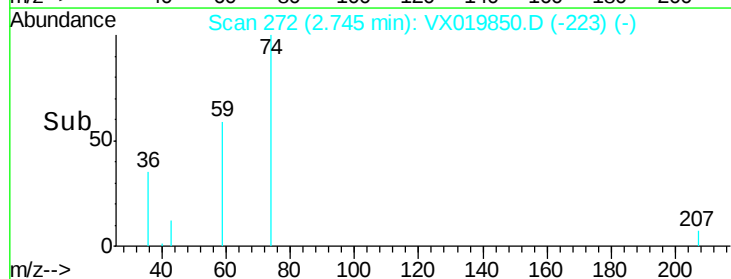
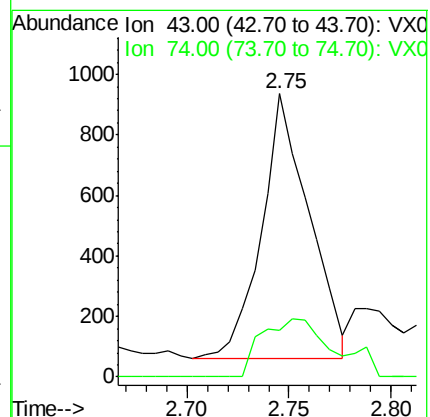
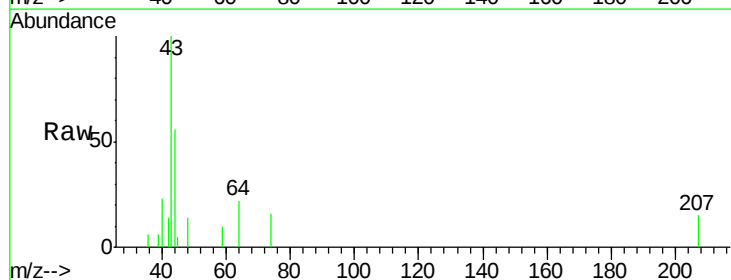
Acq: 11 Dec 2020 01:57

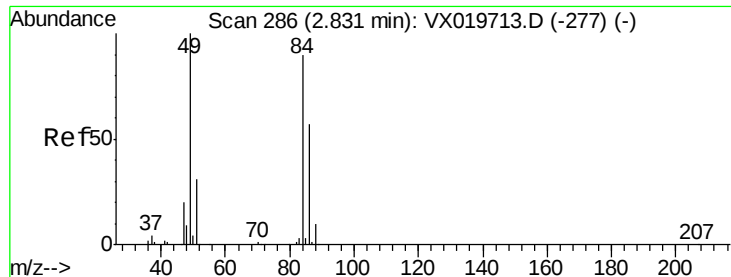
Tgt Ion: 43 Resp: 1419

Ion Ratio Lower Upper

43 100

74 33.3 21.9 32.9#

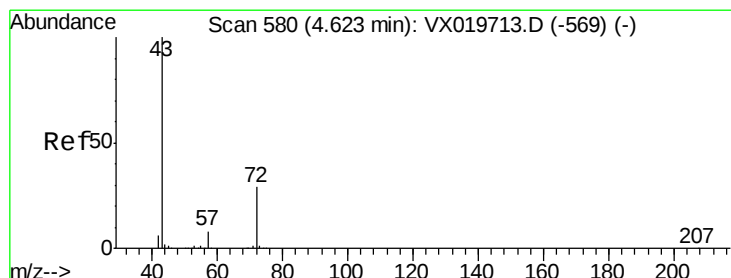
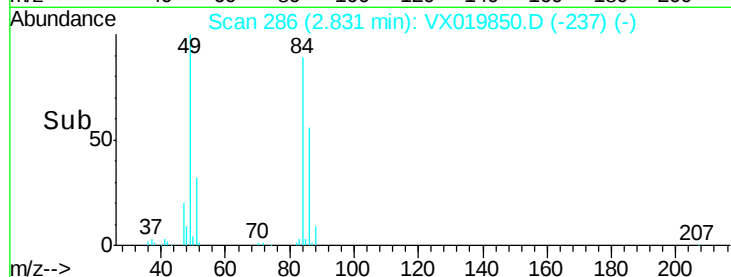
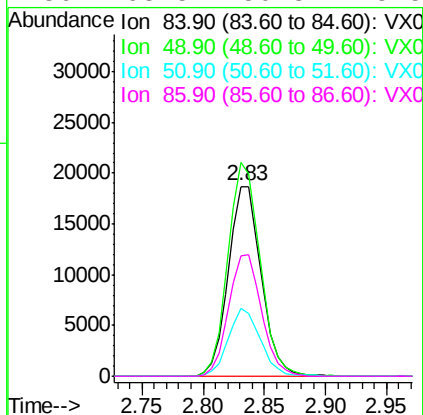
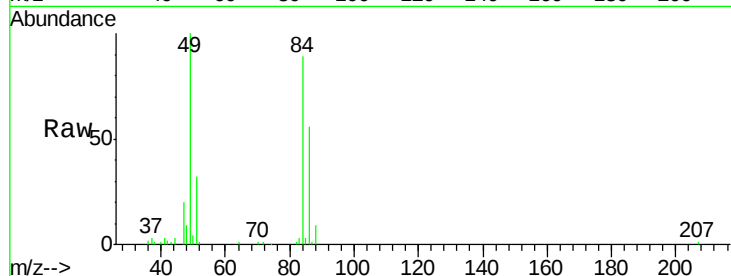




#20
Methylene Chloride
Concen: 8.386 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019850.D
Acq: 11 Dec 2020 01:57

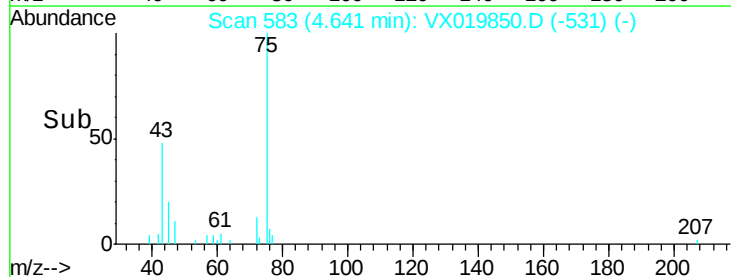
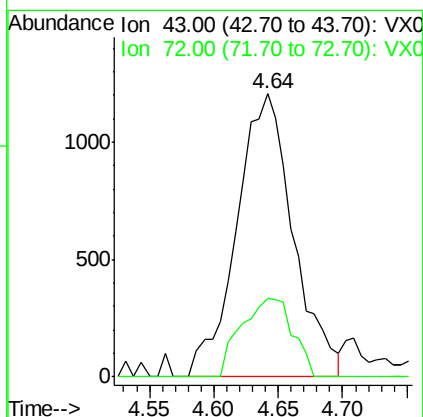
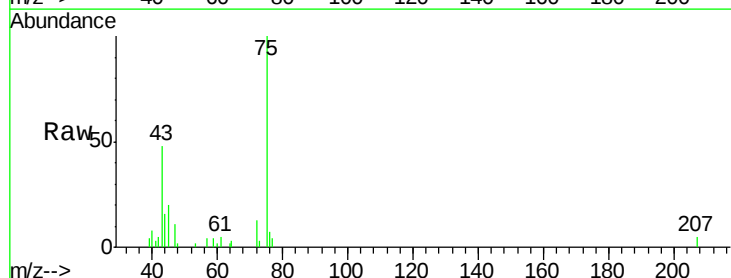
Instrument :
MSVOA_X
ClientSampleId :
TR1-C-BOTTOM

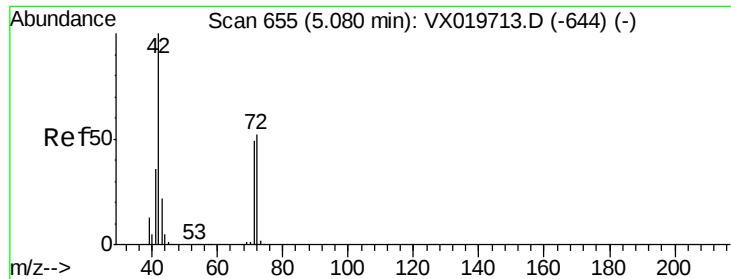
Tgt Ion:	84	Resp:	34598
Ion	Ratio	Lower	Upper
84	100		
49	112.6	88.6	132.8
51	35.9	27.0	40.6
86	63.5	50.3	75.5



#25
2-Butanone
Concen: 1.513 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.02 min
Lab File: VX019850.D
Acq: 11 Dec 2020 01:57

Tgt Ion:	43	Resp:	3681
Ion	Ratio	Lower	Upper
43	100		
72	27.8	23.7	35.5

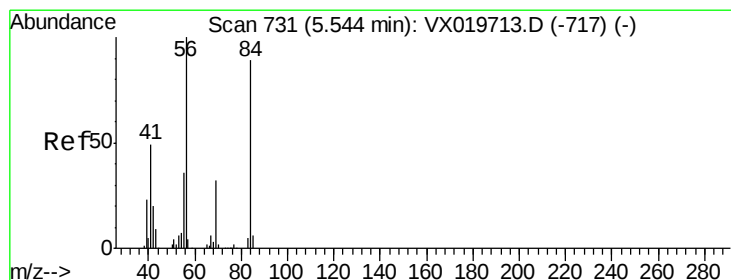
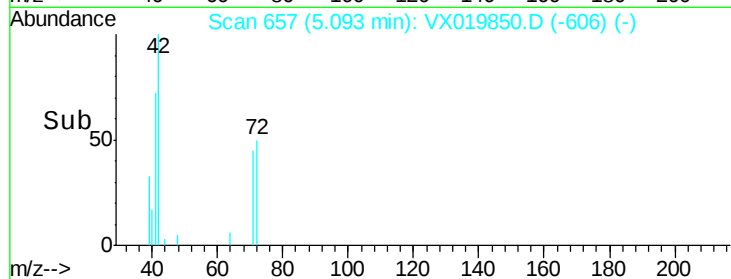
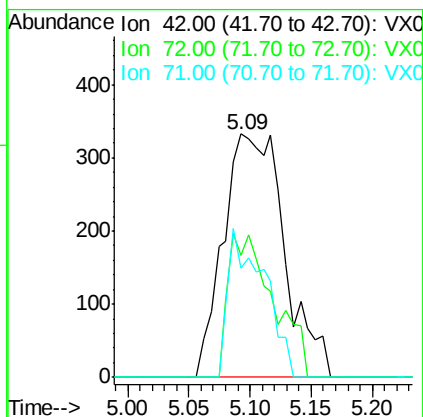
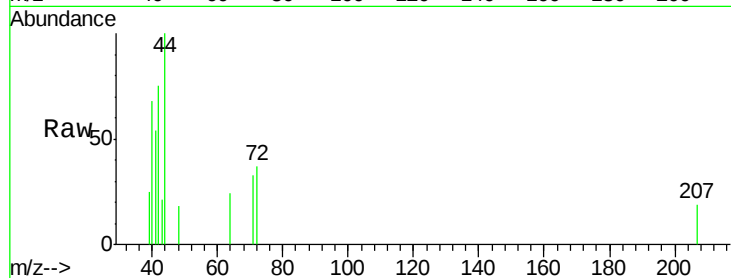




#29
Tetrahydrofuran
Concen: 0.739 ug/l
RT: 5.09 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX019850.D
Acq: 11 Dec 2020 01:57

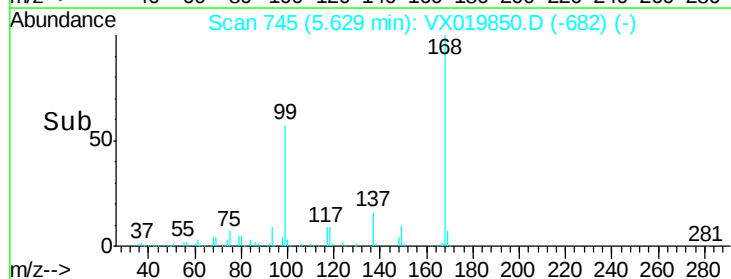
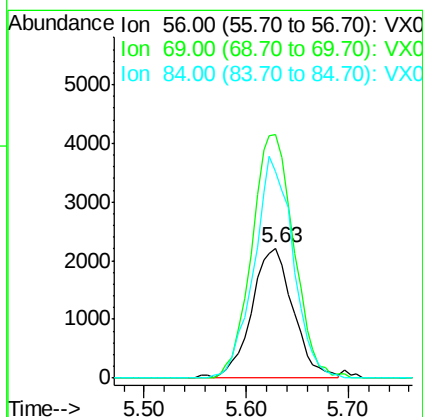
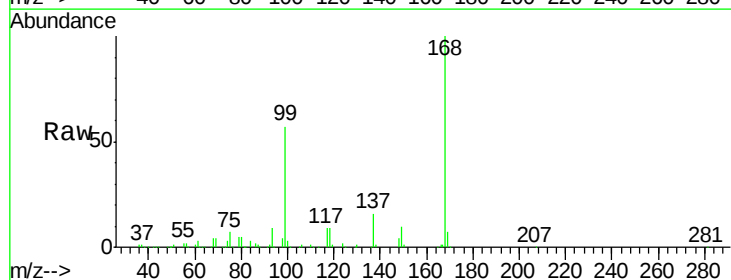
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MSVOA_X
ClientSampleId :
TR1-C-BOTTOM

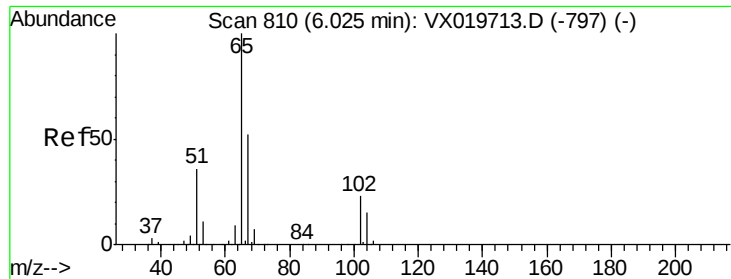
Tgt Ion: 42 Resp: 1158
Ion Ratio Lower Upper
42 100
72 43.5 41.7 62.5
71 36.2 38.4 57.6#



#31
Cyclohexane
Concen: 1.198 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019850.D
Acq: 11 Dec 2020 01:57

Tgt Ion: 56 Resp: 6280
Ion Ratio Lower Upper
56 100
69 186.8 25.3 37.9#
84 158.3 71.4 107.0#

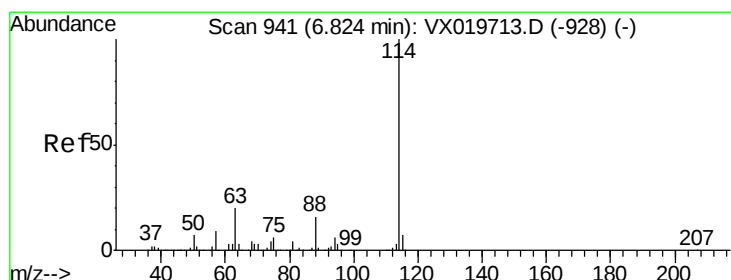
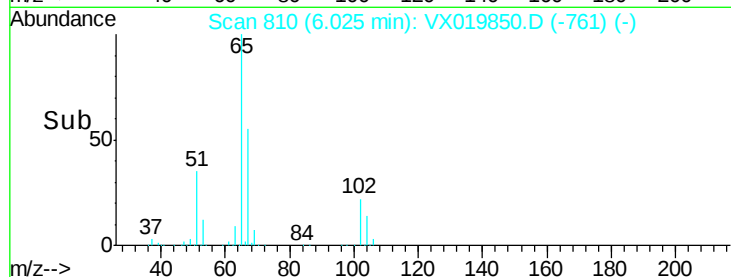
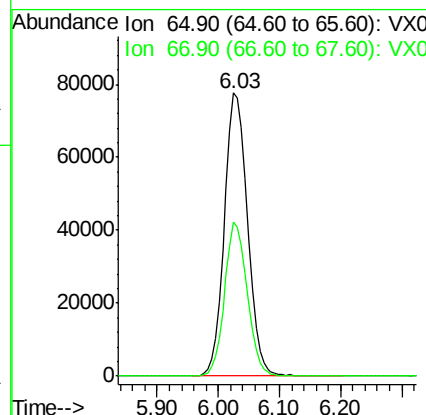
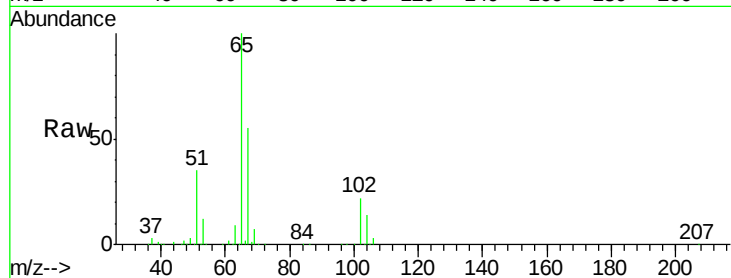




#33
 1,2-Dichloroethane-d4
 Concen: 48.550 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: VX019850.D
 Acq: 11 Dec 2020 01:57

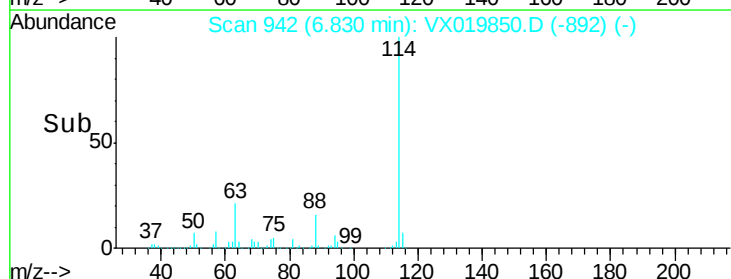
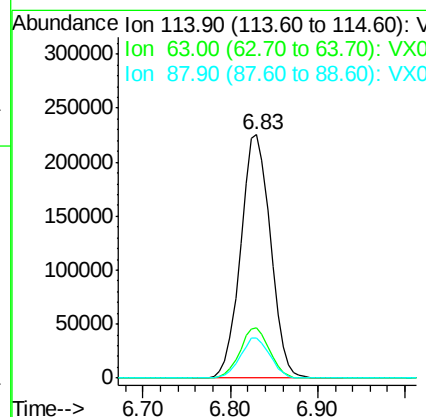
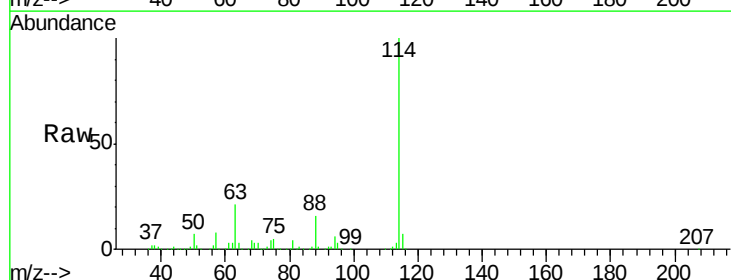
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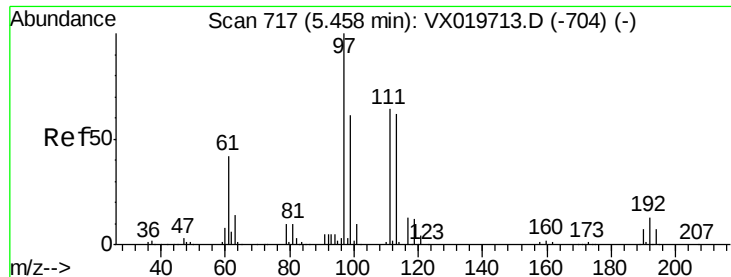
Tgt Ion: 65 Resp: 204560
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019850.D
 Acq: 11 Dec 2020 01:57

Tgt Ion: 114 Resp: 535669
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.8
 88 16.5 0.0 32.8

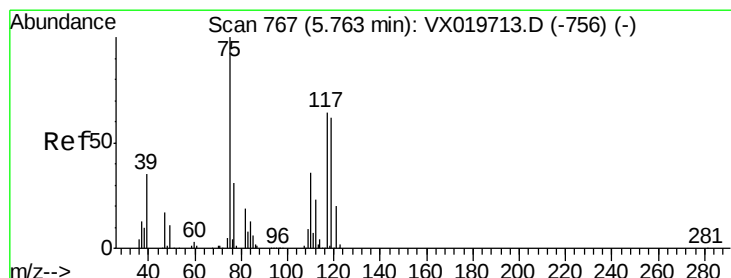
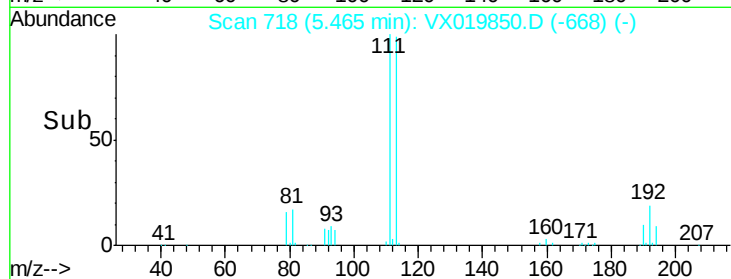
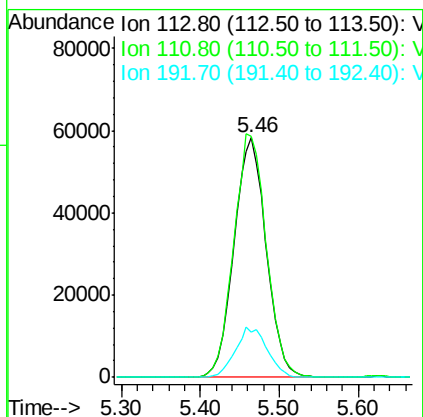
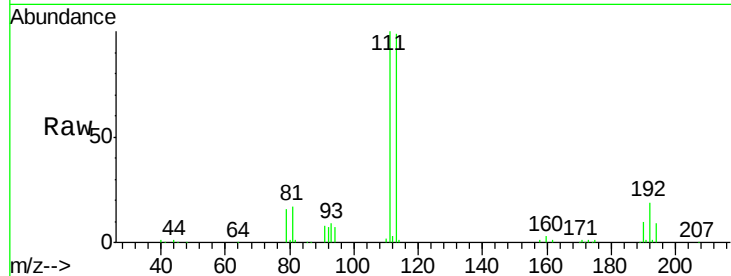




#35
 Dibromofluoromethane
 Concen: 47.720 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX019850.D
 Acq: 11 Dec 2020 01:57

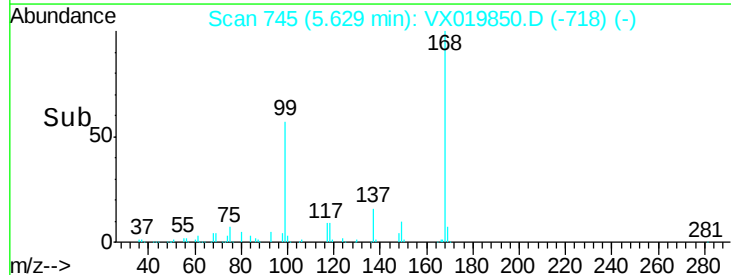
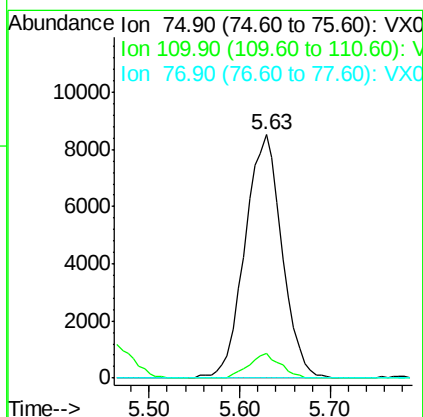
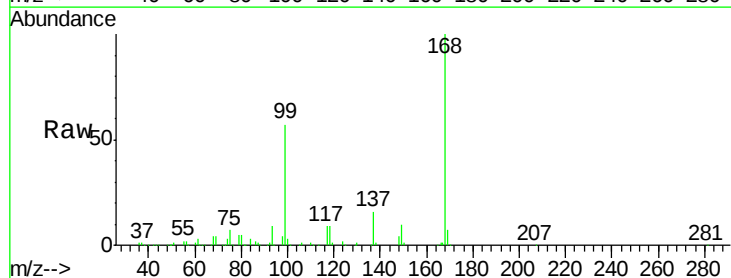
Instrument :
 MSVOA_X
 ClientSampleId :
 TR1-C-BOTTOM

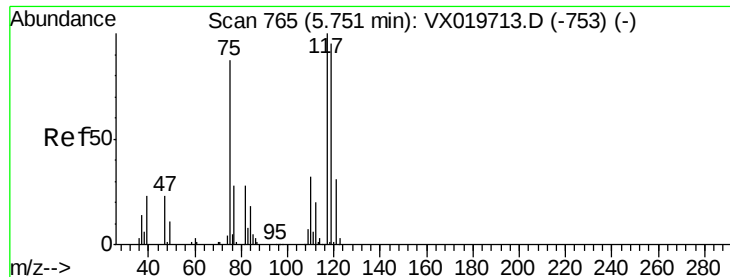
Tgt Ion:113 Resp: 165204
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.9 122.9
 192 20.9 16.7 25.1



#36
 1,1-Dichloropropene
 Concen: 4.964 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX019850.D
 Acq: 11 Dec 2020 01:57

Tgt Ion: 75 Resp: 24029
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.1 54.4#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 6.594 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

Instrument :

MSVOA_X

ClientSampleId :

TR1-C-BOTTOM

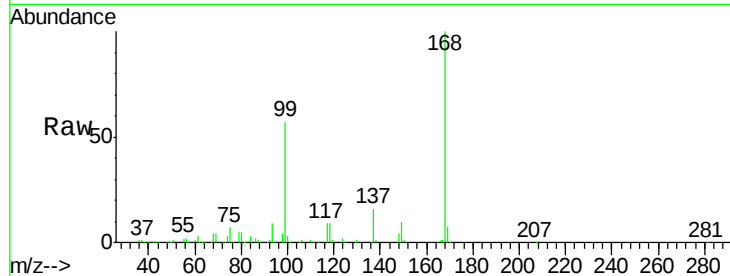
Tgt Ion:117 Resp: 31255

Ion Ratio Lower Upper

117 100

119 6.1 76.2 114.2#

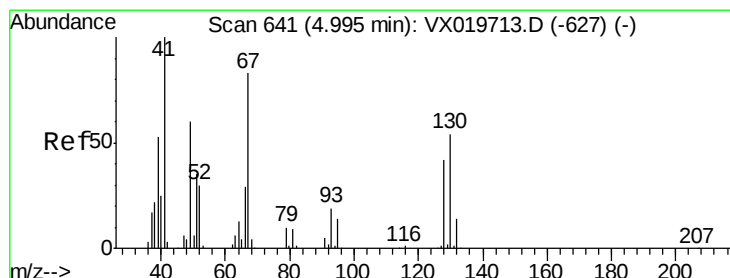
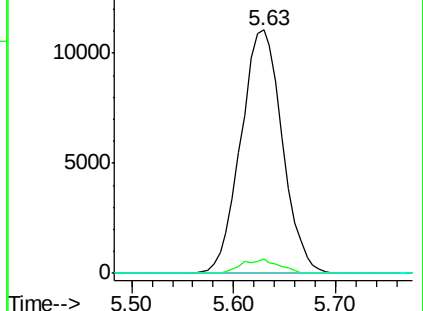
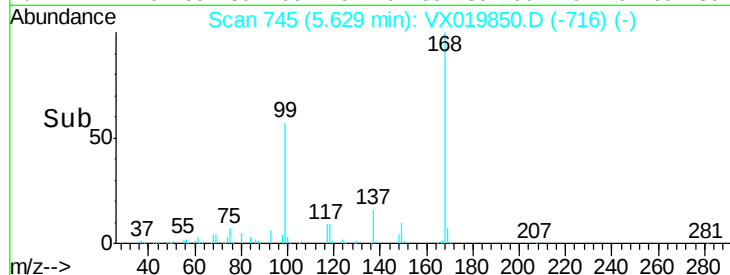
121 0.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.271 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.10 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

Tgt Ion: 41 Resp: 726

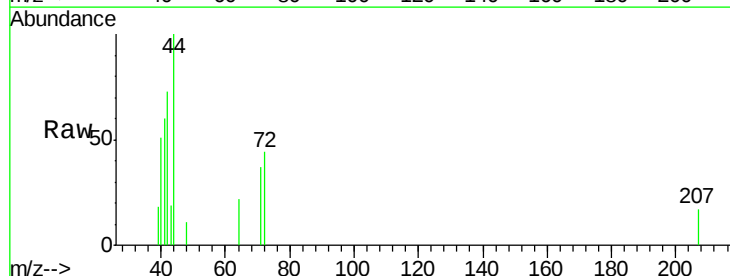
Ion Ratio Lower Upper

41 100

39 24.2 42.5 63.7#

67 0.0 65.0 97.6#

52 0.0 25.3 37.9#

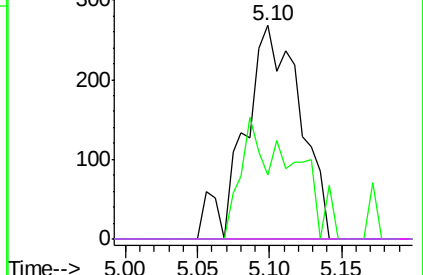
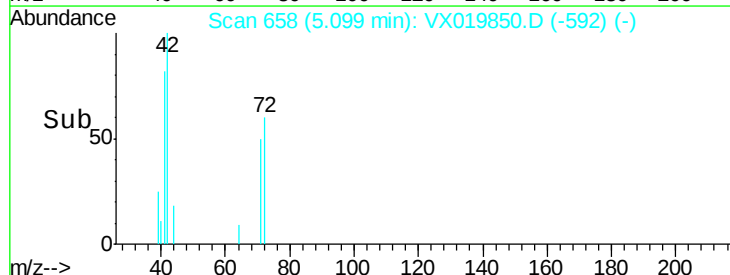


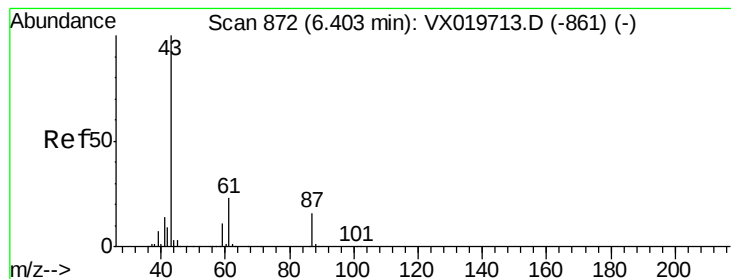
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 3.083 ug/l

RT: 6.41 min Scan# 873

Delta R.T. 0.01 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

Instrument :

MSVOA_X

ClientSampleId :

TR1-C-BOTTOM

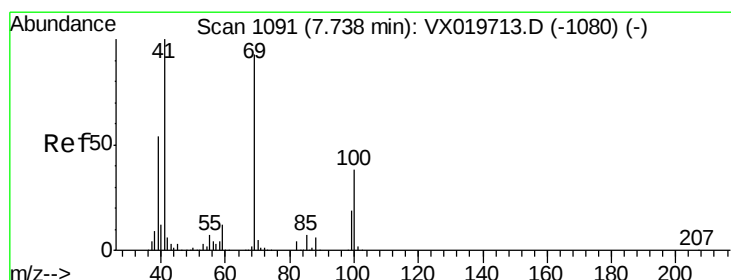
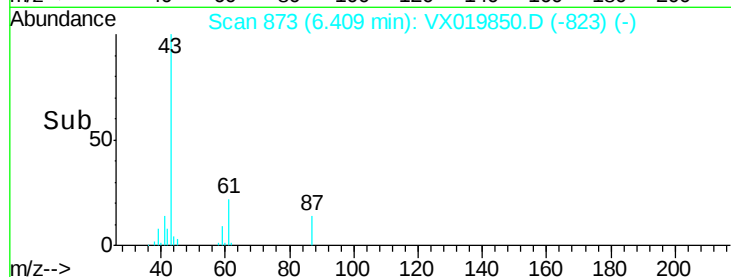
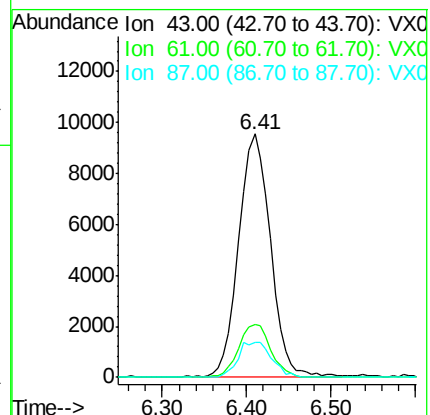
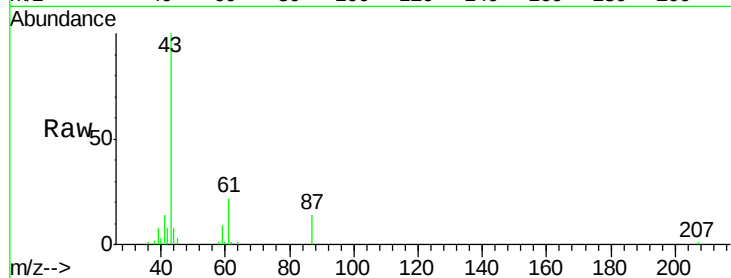
Tgt Ion: 43 Resp: 24498

Ion Ratio Lower Upper

43 100

61 21.9 18.2 27.4

87 15.1 12.5 18.7



#48

Methyl methacrylate

Concen: 1.559 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

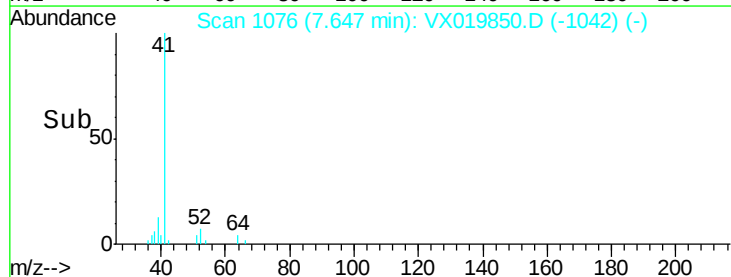
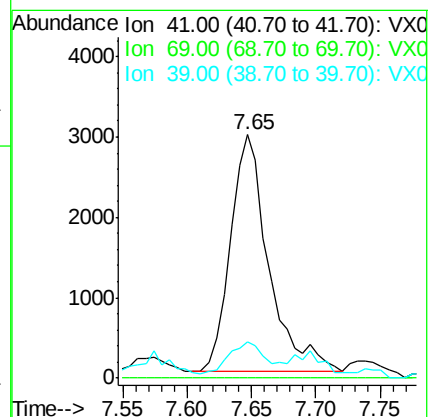
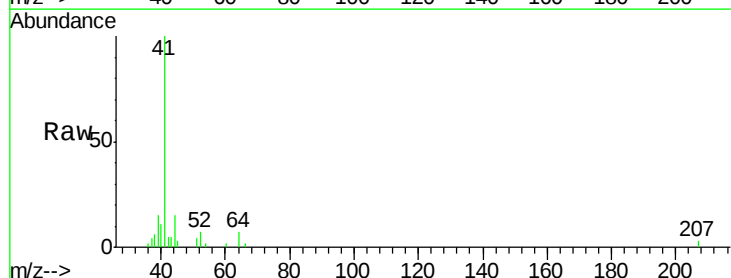
Tgt Ion: 41 Resp: 6093

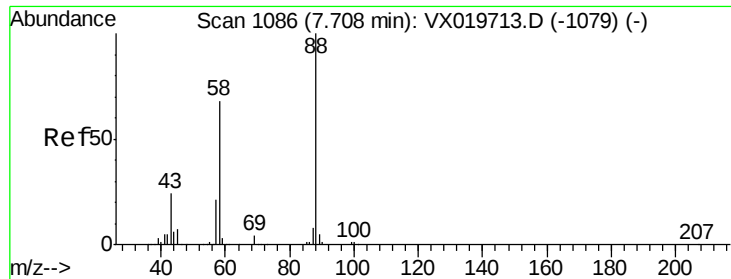
Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

39 0.0 44.6 67.0#





#49

1,4-Dioxane

Concen: 2.725 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.15 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

Instrument :

MSVOA_X

ClientSampleId :

TR1-C-BOTTOM

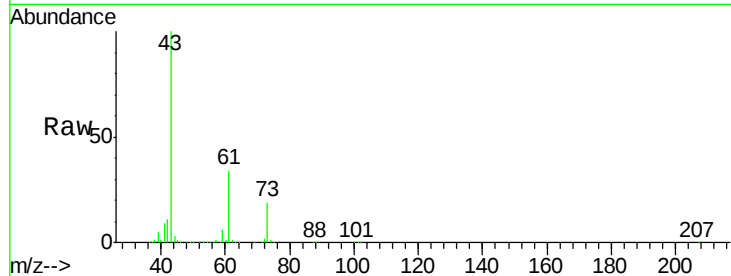
Tgt Ion: 88 Resp: 258

Ion Ratio Lower Upper

88 100

43 519617.1 23.2 34.8#

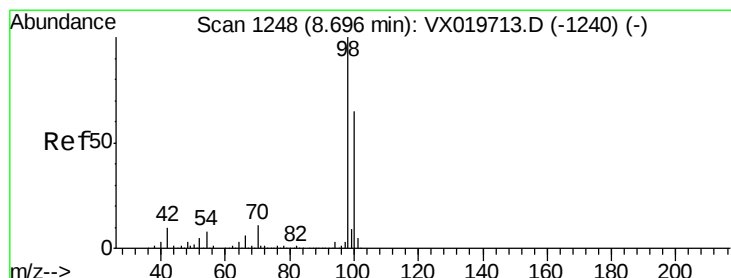
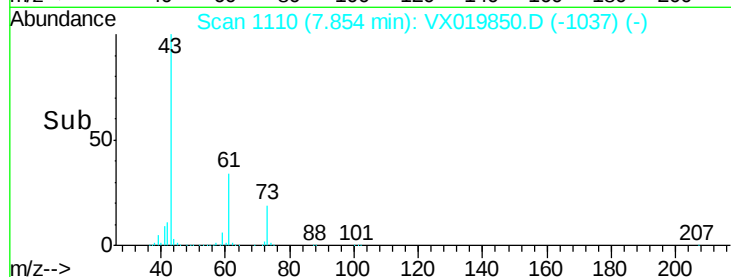
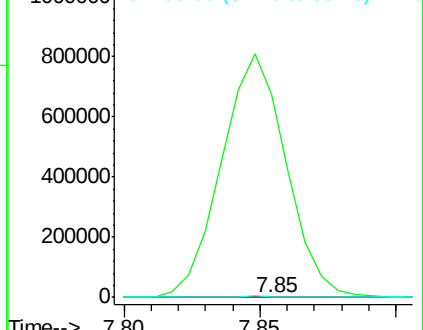
58 2723.3 55.0 82.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.766 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019850.D

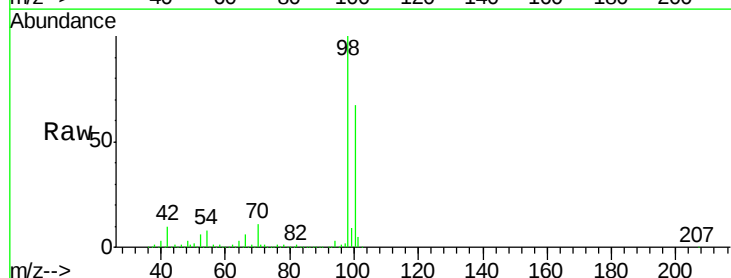
Acq: 11 Dec 2020 01:57

Tgt Ion: 98 Resp: 657744

Ion Ratio Lower Upper

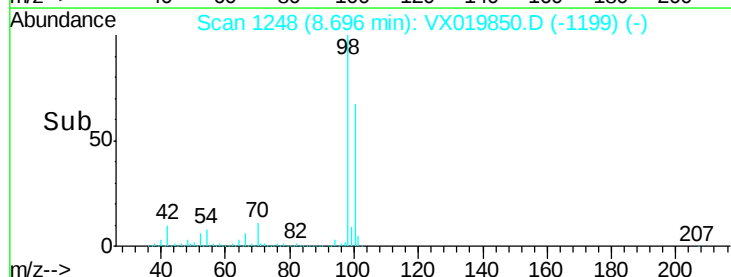
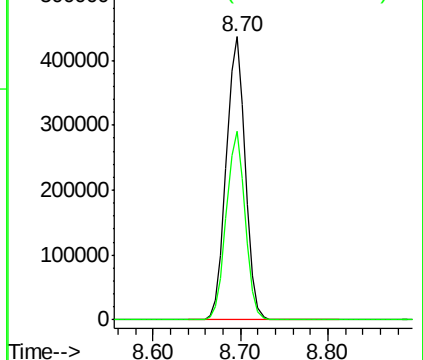
98 100

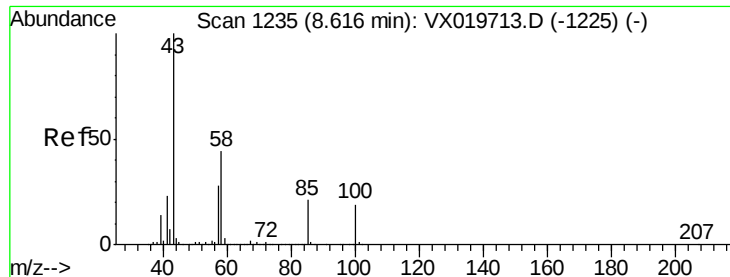
100 66.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 17.209 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

Instrument :

MSVOA_X

ClientSampleId :

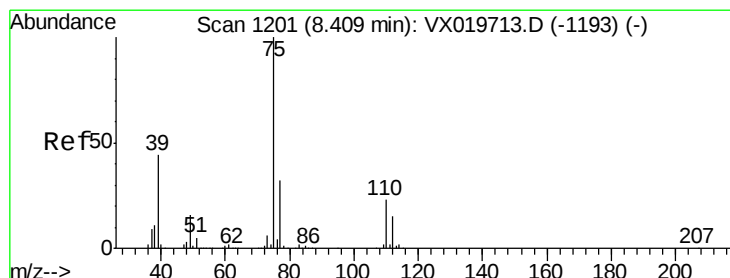
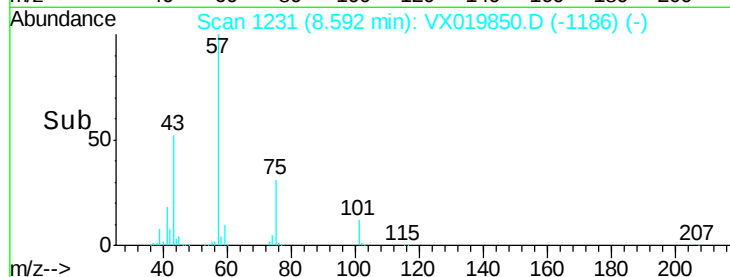
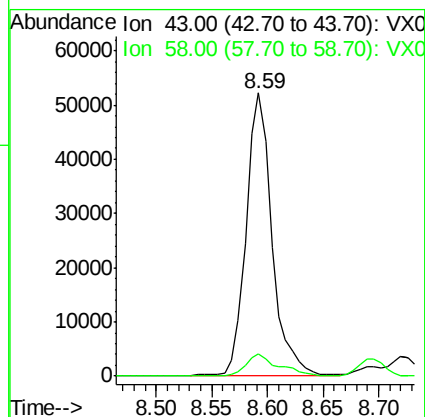
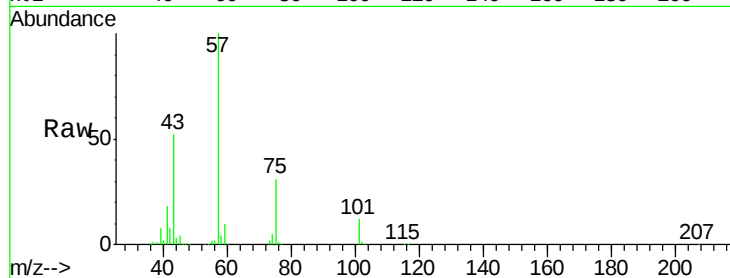
TR1-C-BOTTOM

Tgt Ion: 43 Resp: 83485

Ion Ratio Lower Upper

43 100

58 9.9 35.4 53.0#



#54

cis-1,3-Dichloropropene

Concen: 7.413 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

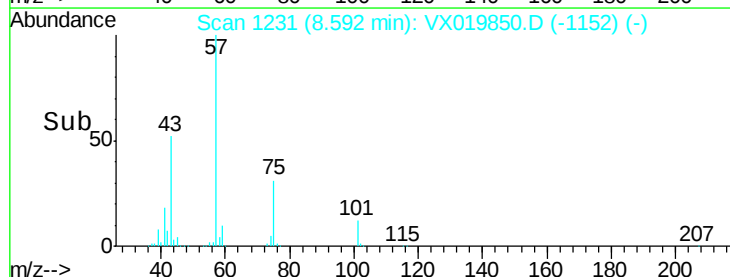
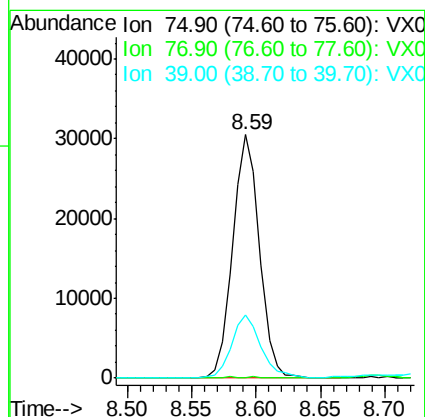
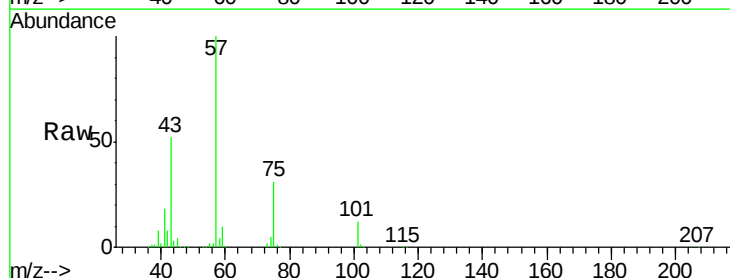
Tgt Ion: 75 Resp: 44254

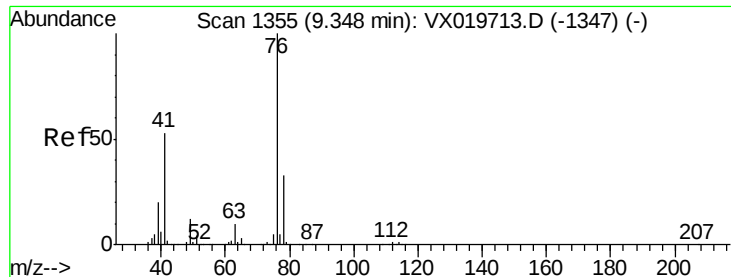
Ion Ratio Lower Upper

75 100

77 0.4 25.7 38.5#

39 25.7 35.1 52.7#





#57

1,3-Dichloropropane

Concen: 4.284 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

Instrument :

MSVOA_X

ClientSampleId :

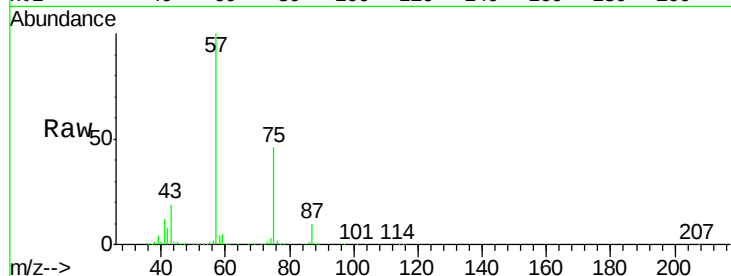
TR1-C-BOTTOM

Tgt Ion: 76 Resp: 27261

Ion Ratio Lower Upper

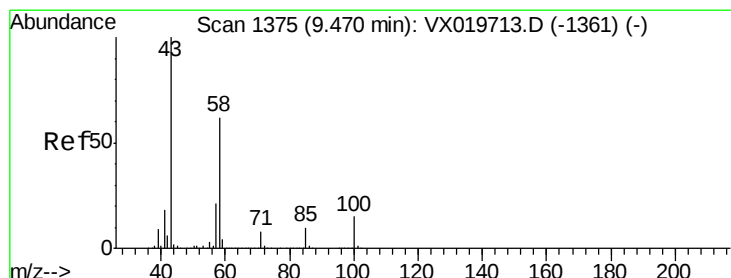
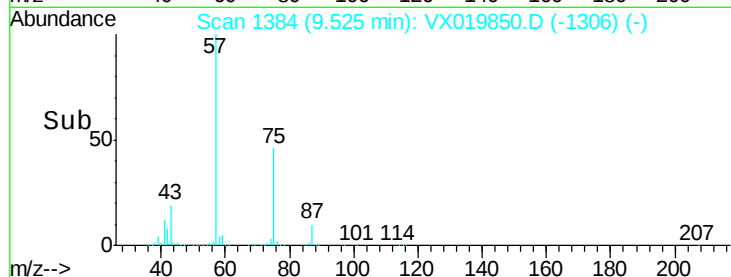
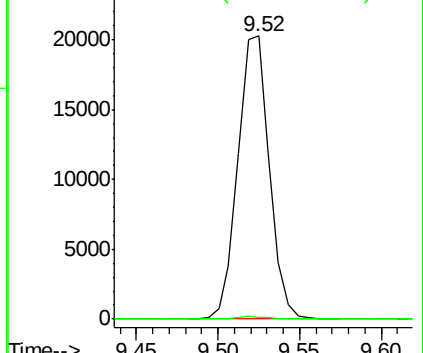
76 100

78 0.7 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 85.778 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX019850.D

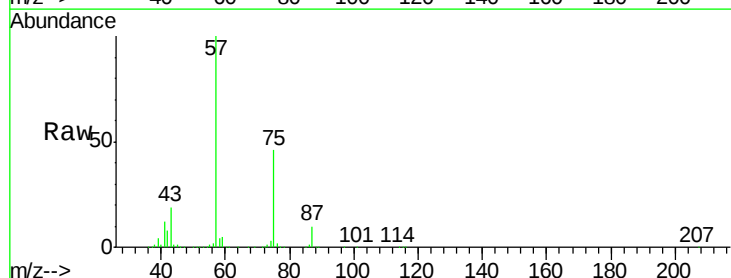
Acq: 11 Dec 2020 01:57

Tgt Ion: 43 Resp: 322547

Ion Ratio Lower Upper

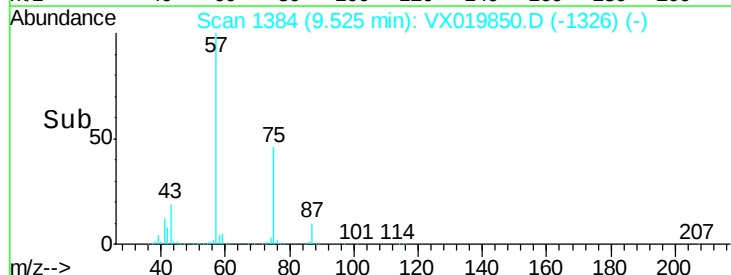
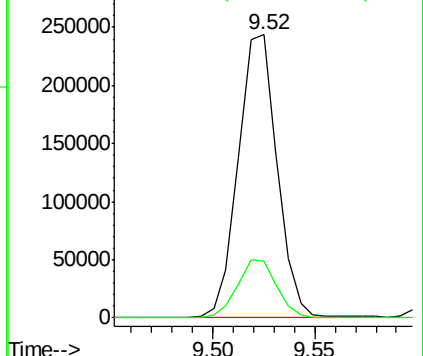
43 100

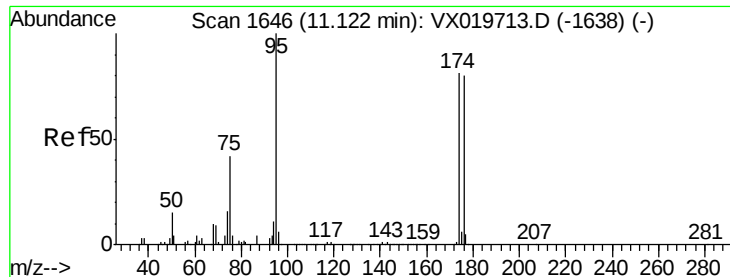
58 20.8 30.9 92.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.623 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

Instrument :

MSVOA_X

ClientSampleId :

TR1-C-BOTTOM

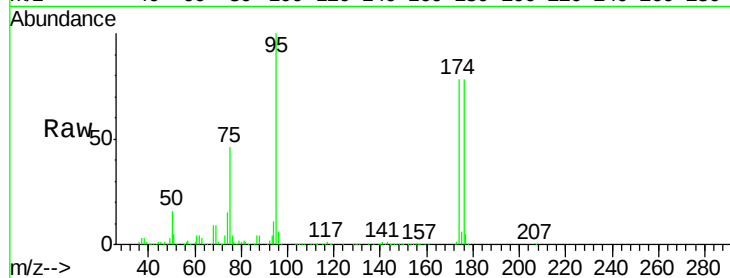
Tgt Ion: 95 Resp: 229504

Ion Ratio Lower Upper

95 100

174 77.0 0.0 154.6

176 76.6 0.0 155.8



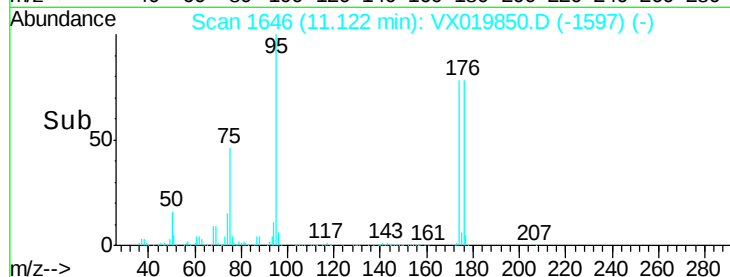
Abundance Ion 94.90 (94.60 to 95.60): VX019713.D (-1638) (-)

Ion 173.80 (173.50 to 174.50): VX019713.D (-1638) (-)

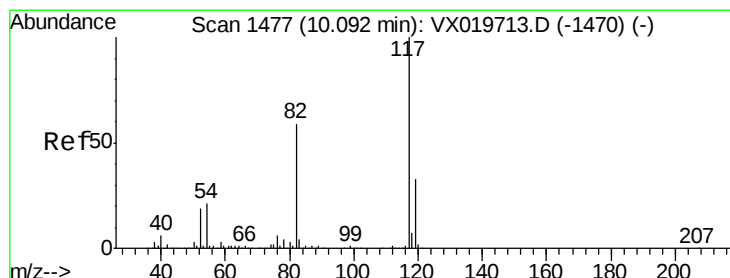
Ion 175.80 (175.50 to 176.50): VX019713.D (-1638) (-)

11.12

11.10 11.20



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

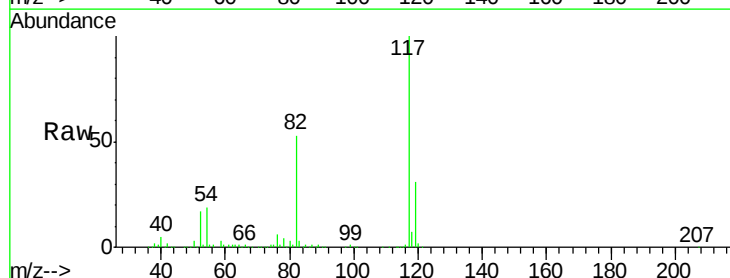
Tgt Ion: 117 Resp: 495168

Ion Ratio Lower Upper

117 100

82 53.4 47.4 71.2

119 31.0 26.6 39.8



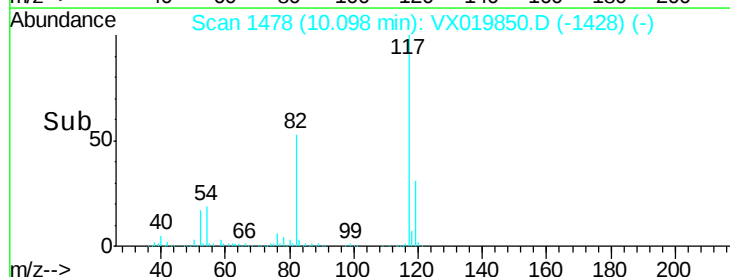
Abundance Ion 116.90 (116.60 to 117.60): VX019713.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX019713.D (-1470) (-)

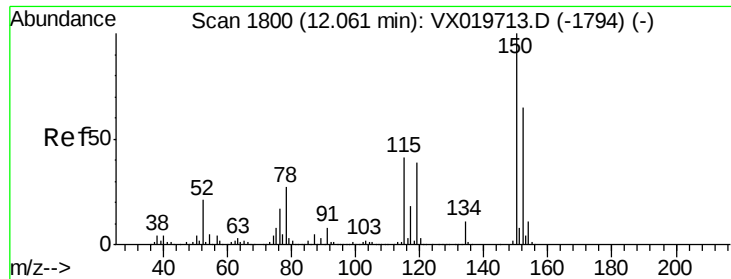
Ion 118.90 (118.60 to 119.60): VX019713.D (-1470) (-)

10.10

10.00 10.20



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

Instrument :

MSVOA_X

ClientSampleId :

TR1-C-BOTTOM

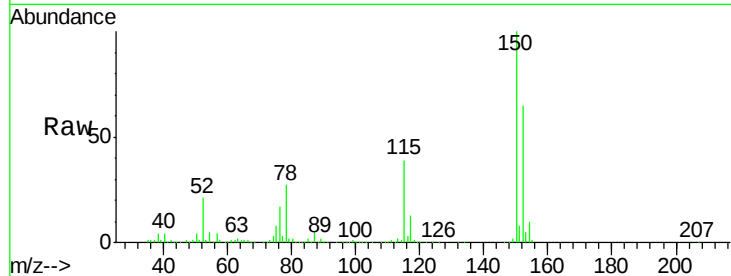
Tgt Ion:152 Resp: 212418

Ion Ratio Lower Upper

152 100

115 59.8 41.1 123.3

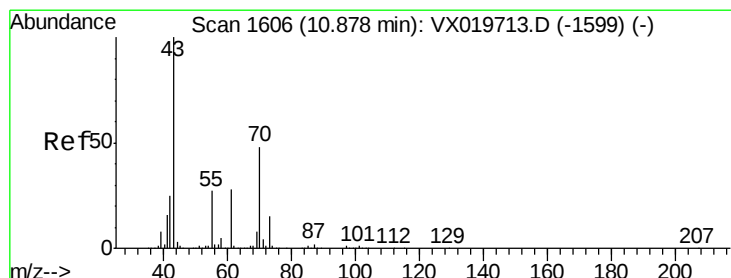
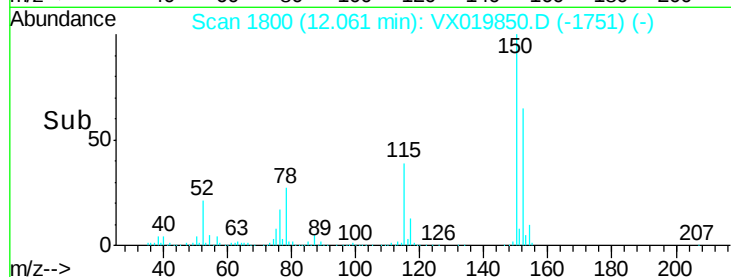
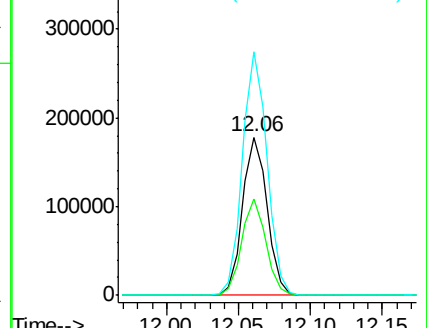
150 154.1 0.0 349.0



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: 0.206 ug/l

RT: 10.81 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

Tgt Ion: 43 Resp: 1197

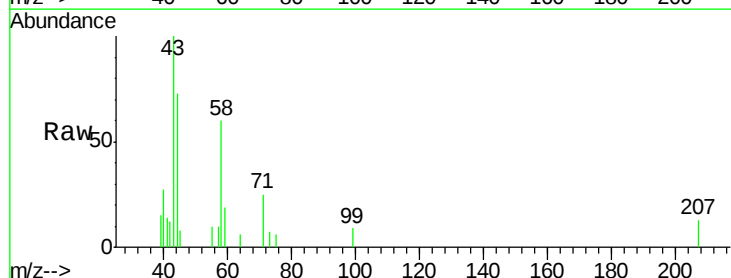
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.6#

55 14.9 21.5 32.3#

61 0.0 22.1 33.1#

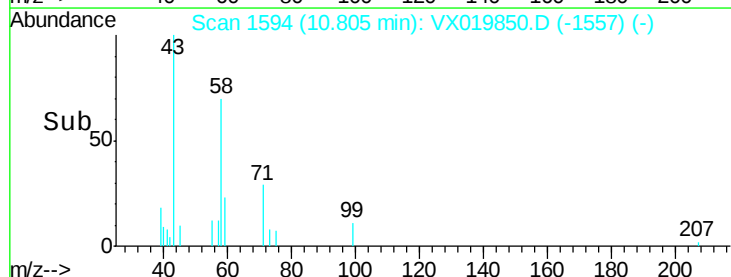
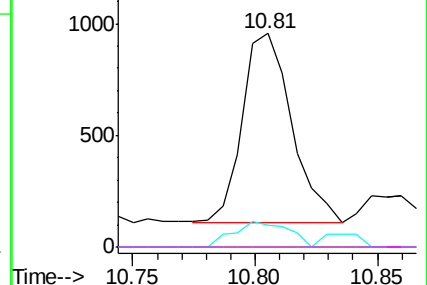


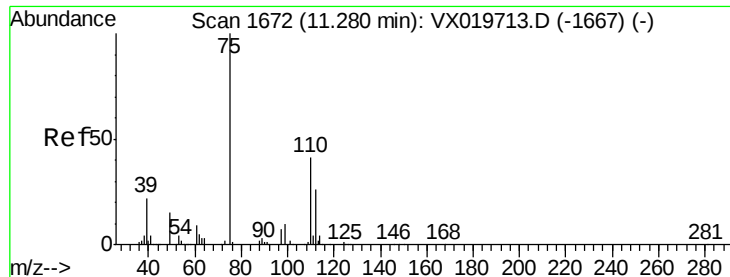
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.136 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

Instrument :

MSVOA_X

ClientSampleId :

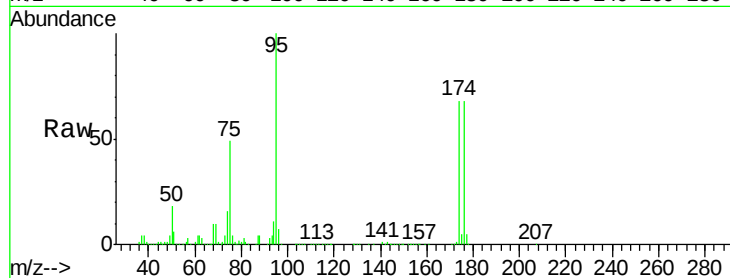
TR1-C-BOTTOM

Tgt Ion: 75 Resp: 110226

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

80000

60000

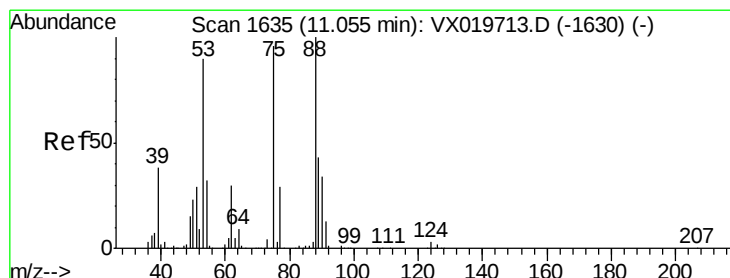
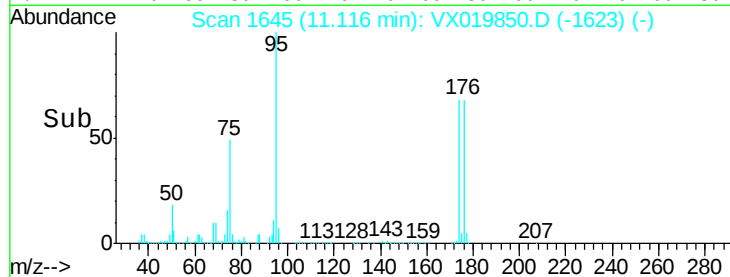
40000

20000

0

11.10 11.20

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 66.883 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019850.D

Acq: 11 Dec 2020 01:57

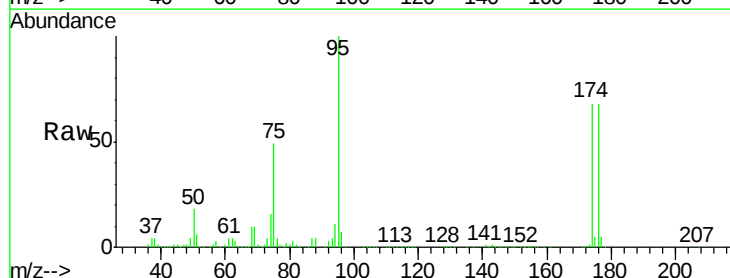
Tgt Ion: 75 Resp: 110226

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#



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

100000

80000

60000

40000

20000

0

11.10 11.20

Time-->

