

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX030719\
 Data File : VX007901.D
 Acq On : 07 Mar 2019 23:50
 Operator : JC/SP
 Sample : PB117680TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117680TB

Quant Time: Mar 08 04:49:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 07:33:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	281783	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	441868	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	424822	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	200323	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	156259	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
35) Dibromofluoromethane	5.50	113	144964	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	
50) Toluene-d8	8.71	98	546290	52.63	ug/l	0.00
Spiked Amount			Recovery	=	105.26%	
62) 4-Bromofluorobenzene	11.13	95	199985	54.95	ug/l	0.00
Spiked Amount			Recovery	=	109.90%	

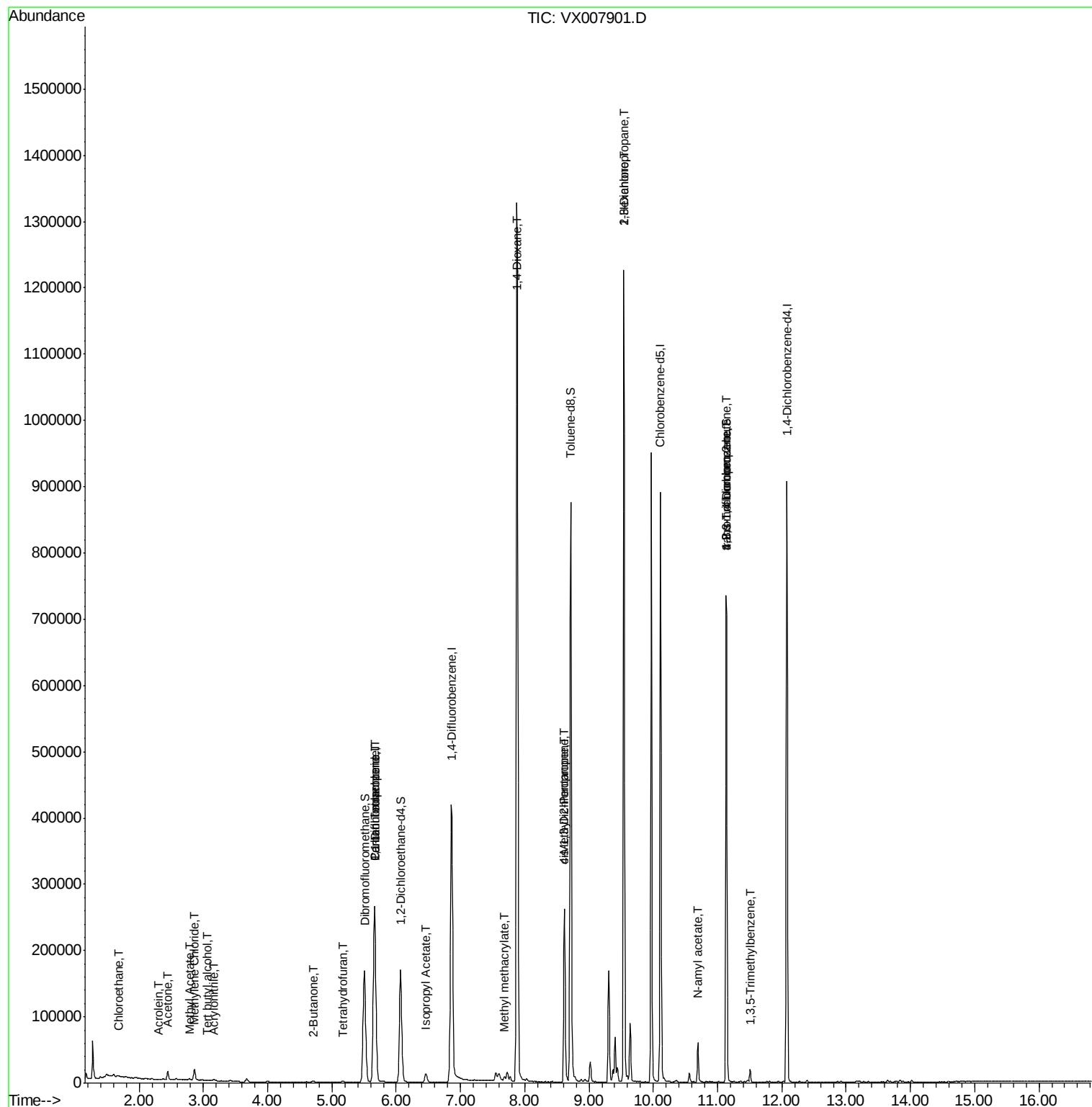
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	482	Below Cal		95
6) Chloroethane	1.68	64	547	0.267	ug/l #	43
11) Tert butyl alcohol	3.06	59	586	0.882	ug/l #	73
13) Acrolein	2.30	56	245	2.189	ug/l	89
15) Acrylonitrile	3.16	53	539	0.321	ug/l	92
16) Acetone	2.45	43	12624	7.337	ug/l	98
17) Carbon Disulfide	2.57	76	1979	Below Cal	#	92
18) Methyl Acetate	2.78	43	1742	0.477	ug/l	100
20) Methylene Chloride	2.86	84	7328	2.676	ug/l	97
25) 2-Butanone	4.70	43	2781	1.142	ug/l	94
29) Tetrahydrofuran	5.17	42	1309	0.862	ug/l #	72
36) 1,1-Dichloropropene	5.66	75	17737	4.433	ug/l #	48
38) Carbon Tetrachloride	5.67	117	23971	6.311	ug/l #	16
43) Isopropyl Acetate	6.46	43	17319	2.465	ug/l	99
48) Methyl methacrylate	7.68	41	8725	2.362	ug/l #	16
49) 1,4-Dioxane	7.88	88	210	2.767	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	83971	18.582	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	41707	9.374	ug/l #	60
57) 1,3-Dichloropropane	9.54	76	9929	2.009	ug/l #	43
59) 2-Hexanone	9.54	43	133518	38.056	ug/l #	51
74) N-amyl acetate	10.69	43	13943	2.254	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	91266	21.711	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.51	105	7580	0.680	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	91266	69.400	ug/l #	11

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

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Quant Time: Mar 08 04:49:14 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X030619W.M
Quant Title : SW846 8260
QLast Update : Thu Mar 07 07:33:26 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007901.D

Acq: 07 Mar 2019 23:50

Instrument :

MSVOA_X

ClientSampleId :

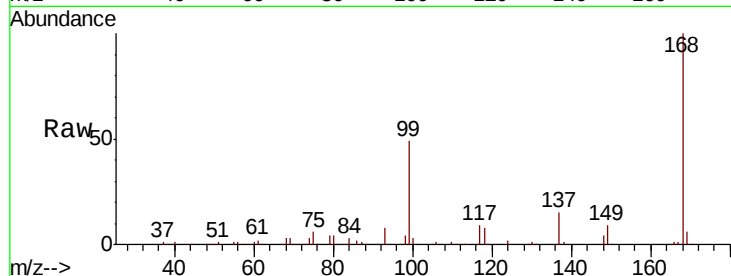
PB117680TB

Tgt Ion:168 Resp: 281783

Ion Ratio Lower Upper

168 100

99 48.9 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): VX007854.D (-726) (-)

Ion 98.90 (98.60 to 99.60): VX007854.D (-726) (-)

5.67

120000

100000

80000

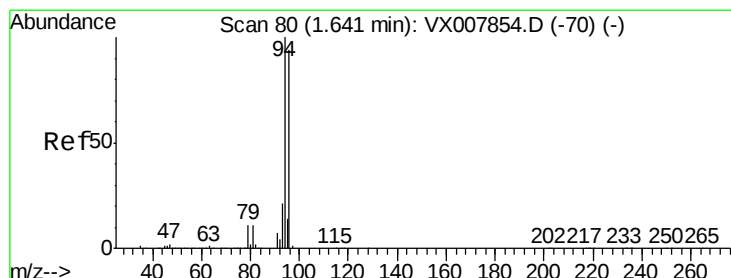
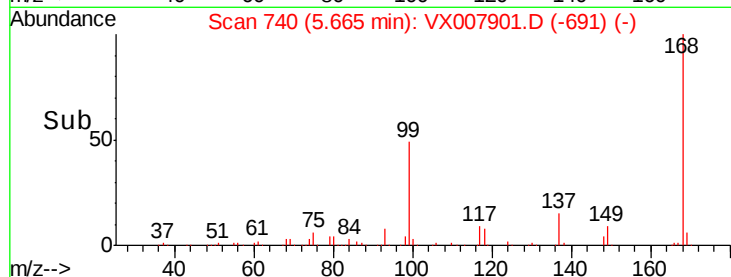
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007901.D

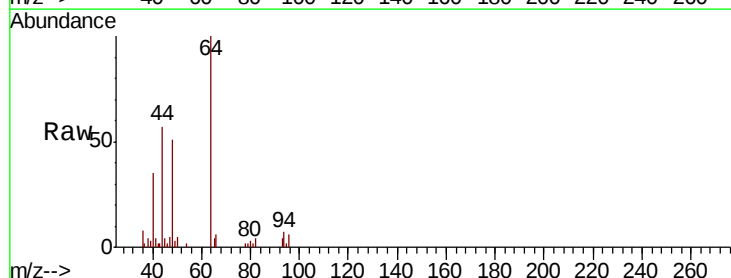
Acq: 07 Mar 2019 23:50

Tgt Ion: 94 Resp: 482

Ion Ratio Lower Upper

94 100

96 90.0 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX007854.D (-70) (-)

Ion 95.90 (95.60 to 96.60): VX007854.D (-70) (-)

1.65

250

200

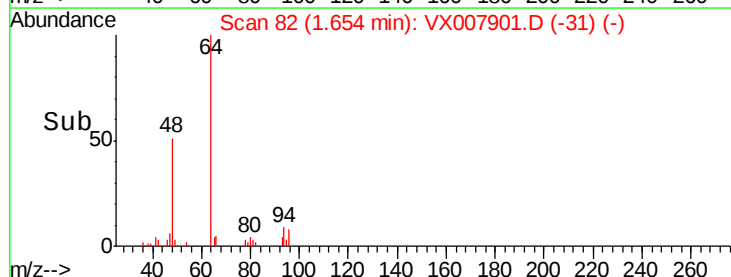
150

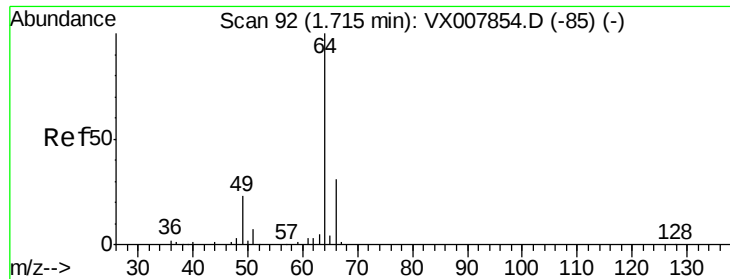
100

50

0

Time-->





#6

Chloroethane

Concen: 0.267 ug/l

RT: 1.68 min Scan# 87

Delta R.T. -0.03 min

Lab File: VX007901.D

Acq: 07 Mar 2019 23:50

Instrument :

MSVOA_X

ClientSampleId :

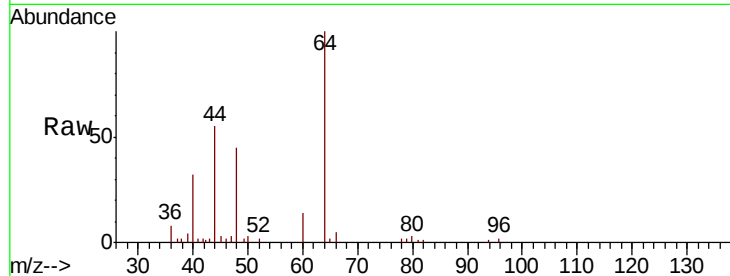
PB117680TB

Tgt Ion: 64 Resp: 547

Ion Ratio Lower Upper

64 100

66 0.0 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.68

4000

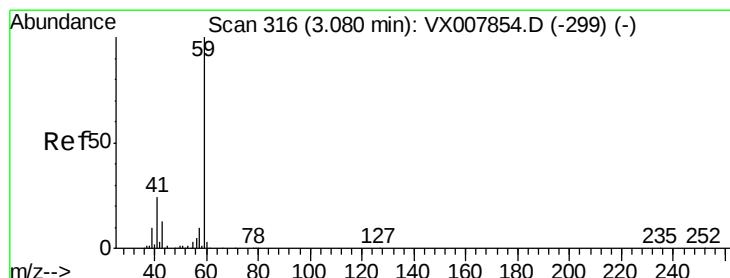
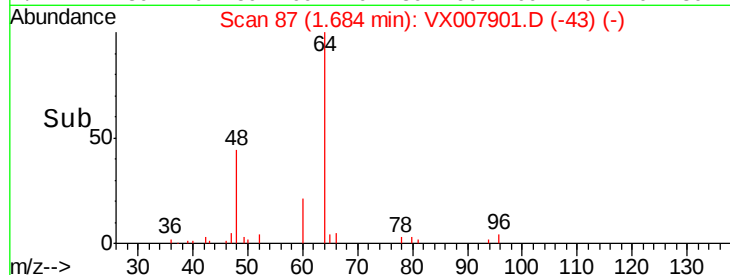
3000

2000

1000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.882 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX007901.D

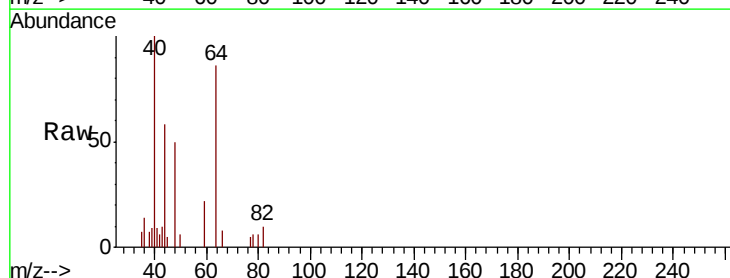
Acq: 07 Mar 2019 23:50

Tgt Ion: 59 Resp: 586

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.06

250

200

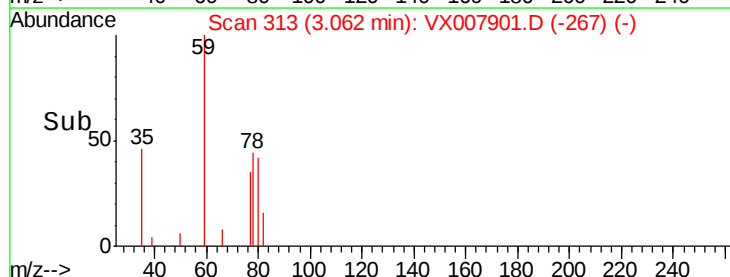
150

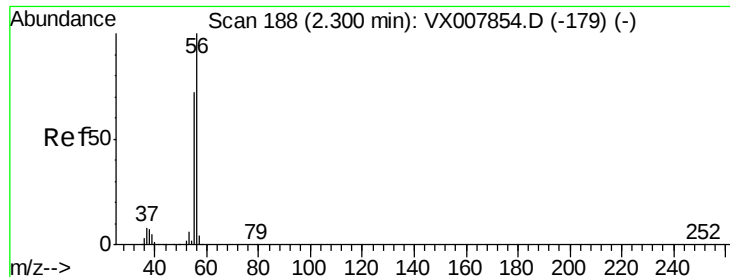
100

50

0

Time-->





#13

Acrolein

Concen: 2.189 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.00 min

Lab File: VX007901.D

Acq: 07 Mar 2019 23:50

Instrument :

MSVOA_X

ClientSampleId :

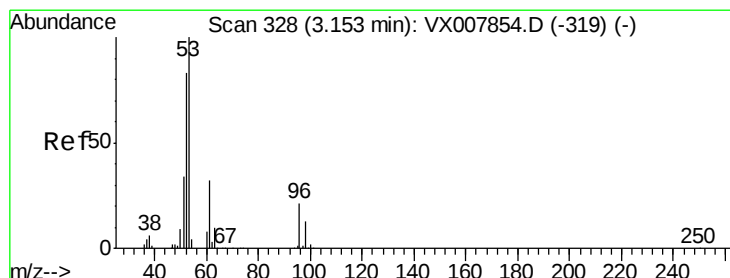
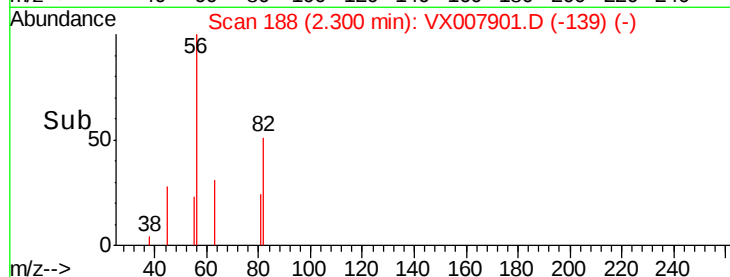
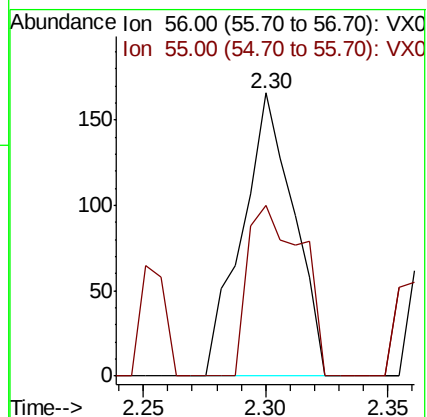
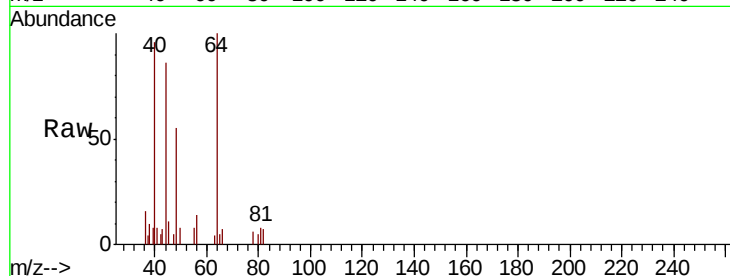
PB117680TB

Tgt Ion: 56 Resp: 245

Ion Ratio Lower Upper

56 100

55 63.3 57.8 86.6



#15

Acrylonitrile

Concen: 0.321 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX007901.D

Acq: 07 Mar 2019 23:50

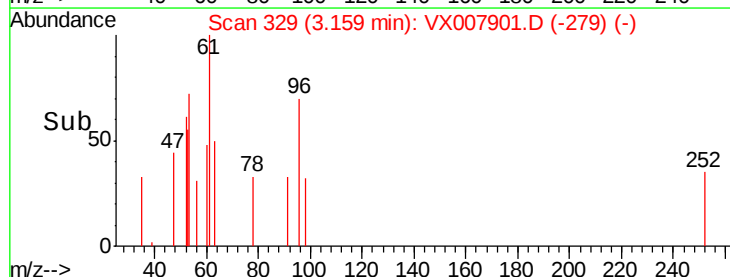
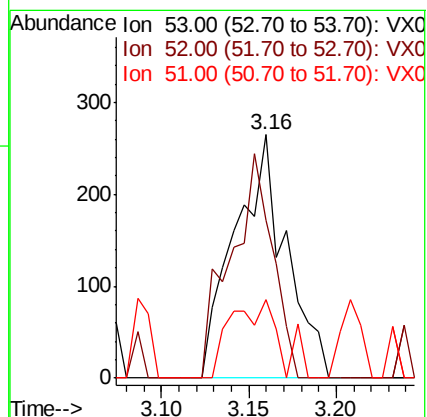
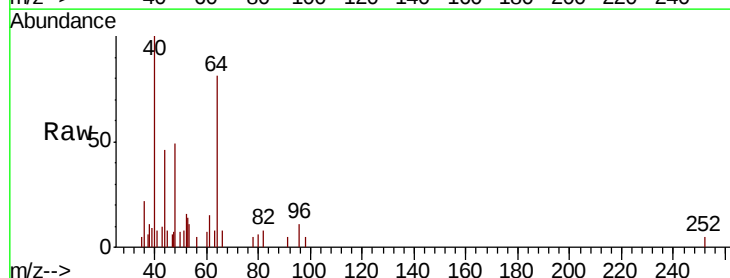
Tgt Ion: 53 Resp: 539

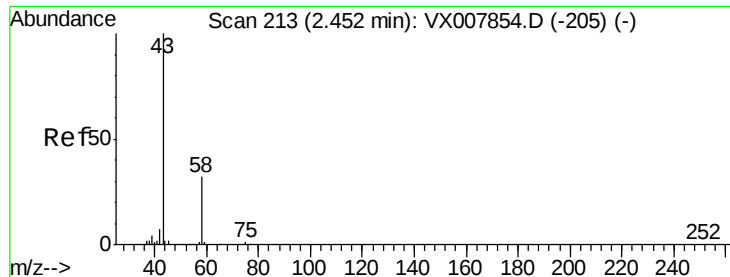
Ion Ratio Lower Upper

53 100

52 75.3 66.0 99.0

51 30.8 28.0 42.0





#16

Acetone

Concen: 7.337 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX007901.D

Acq: 07 Mar 2019 23:50

Instrument :

MSVOA_X

ClientSampleId :

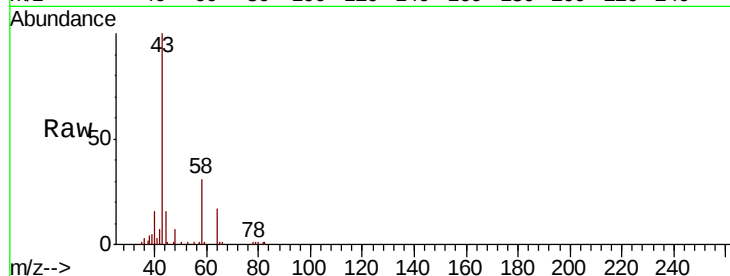
PB117680TB

Tgt Ion: 43 Resp: 12624

Ion Ratio Lower Upper

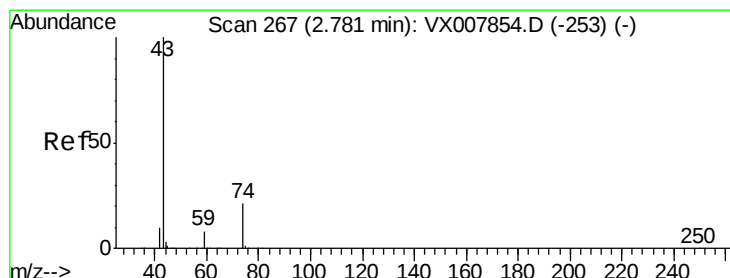
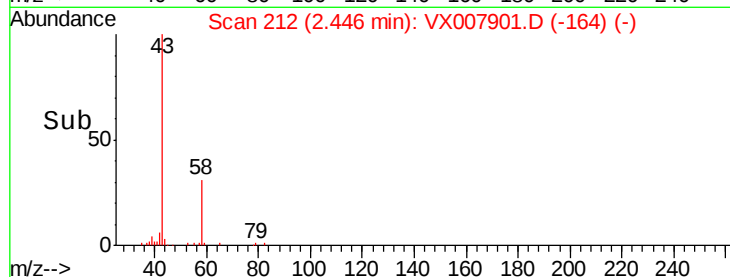
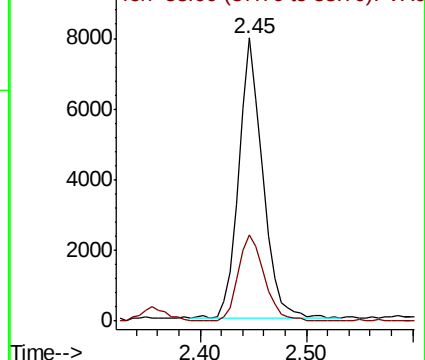
43 100

58 31.0 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.477 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX007901.D

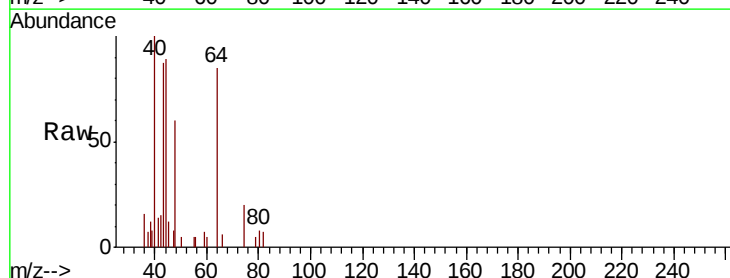
Acq: 07 Mar 2019 23:50

Tgt Ion: 43 Resp: 1742

Ion Ratio Lower Upper

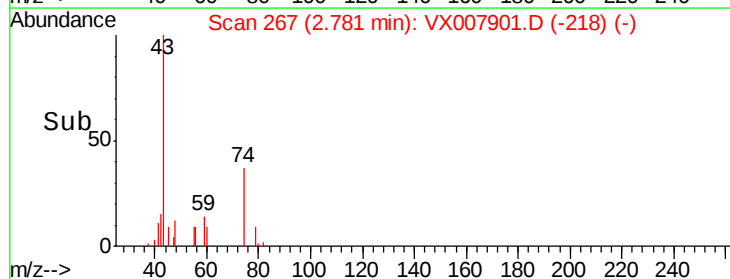
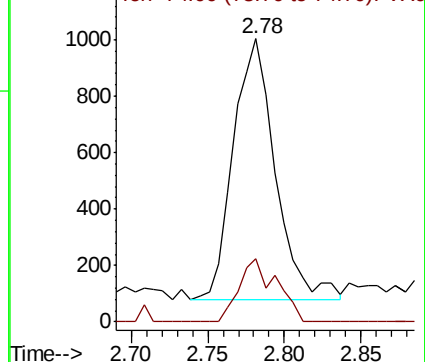
43 100

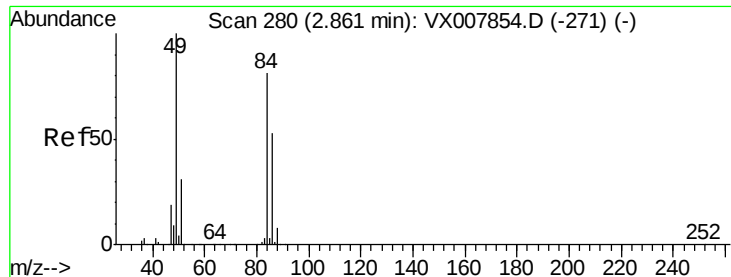
74 22.0 17.8 26.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



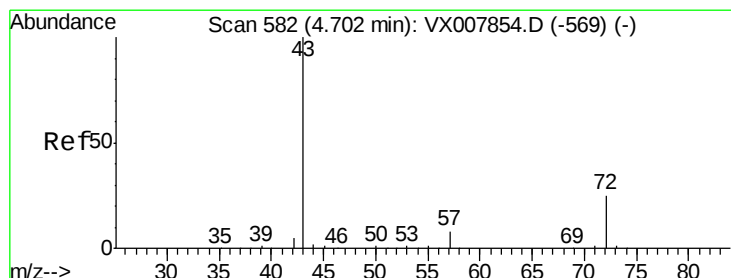
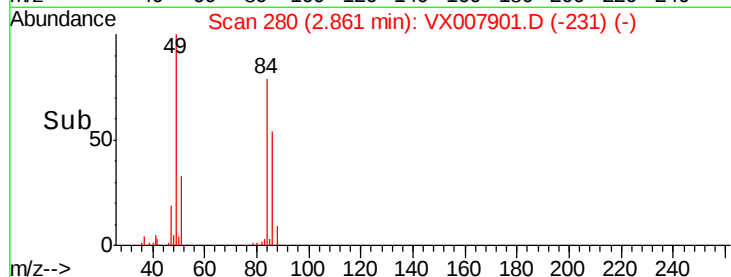
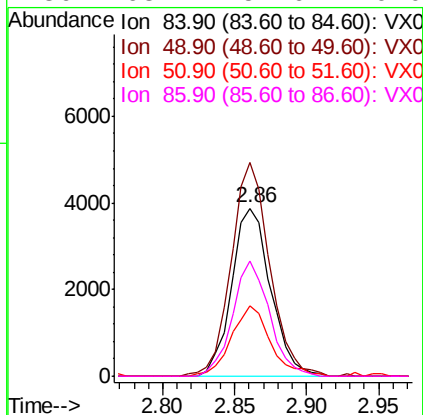
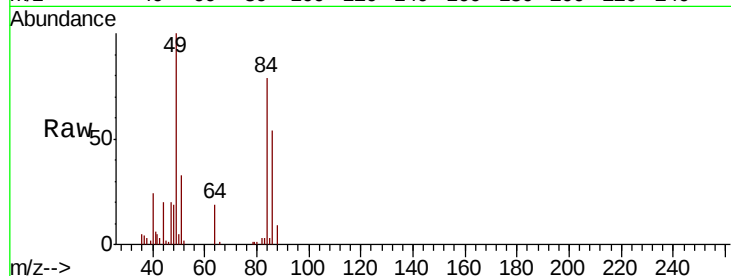


#20
Methylene Chloride
Concen: 2.676 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007901.D
Acq: 07 Mar 2019 23:50

Instrument :
MSVOA_X
ClientSampled :
PB117680TB

Tgt Ion: 84 Resp: 7328

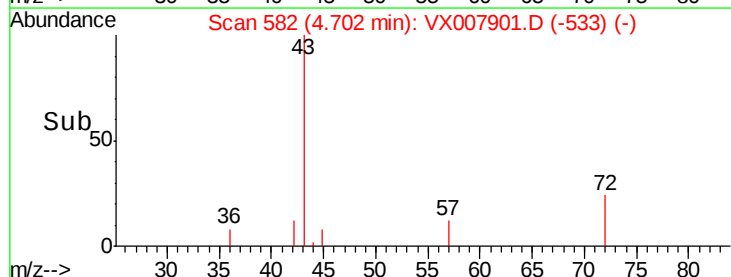
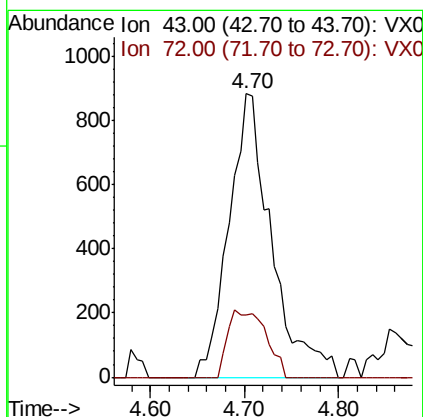
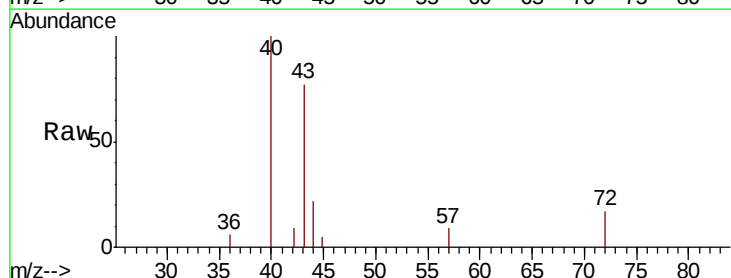
Ion	Ratio	Lower	Upper
84	100		
49	127.1	99.3	148.9
51	41.7	31.3	46.9
86	68.2	52.6	79.0

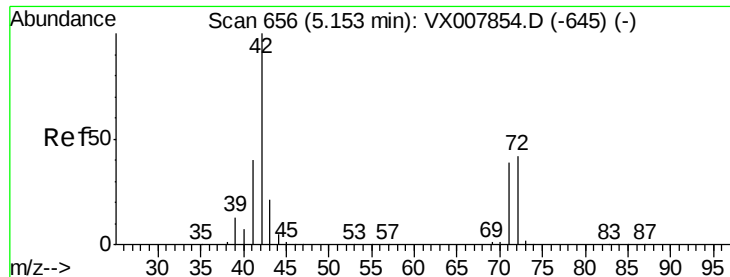


#25
2-Butanone
Concen: 1.142 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.00 min
Lab File: VX007901.D
Acq: 07 Mar 2019 23:50

Tgt Ion: 43 Resp: 2781

Ion	Ratio	Lower	Upper
43	100		
72	21.7	19.9	29.9





#29

Tetrahydrofuran

Concen: 0.862 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX007901.D

Acq: 07 Mar 2019 23:50

Instrument :

MSVOA_X

ClientSampleId :

PB117680TB

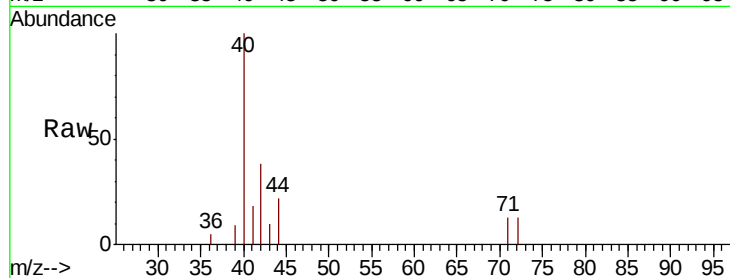
Tgt Ion: 42 Resp: 1309

Ion Ratio Lower Upper

42 100

72 25.7 33.8 50.6#

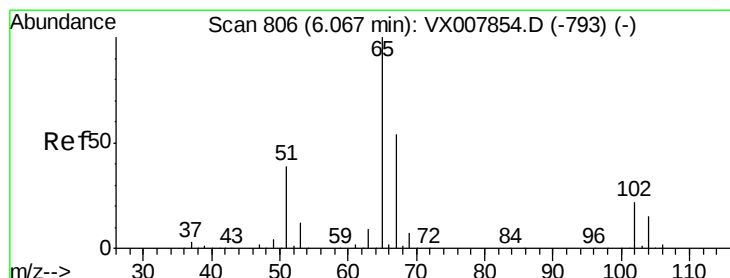
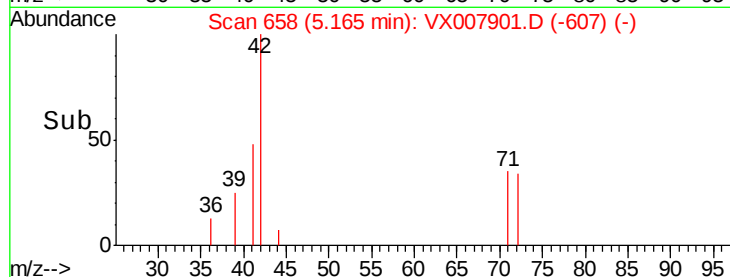
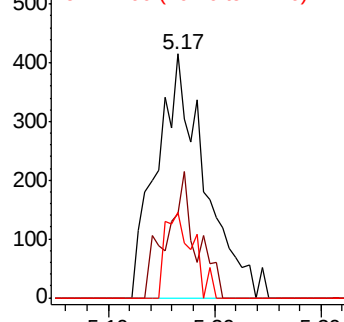
71 20.6 31.5 47.3#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.568 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007901.D

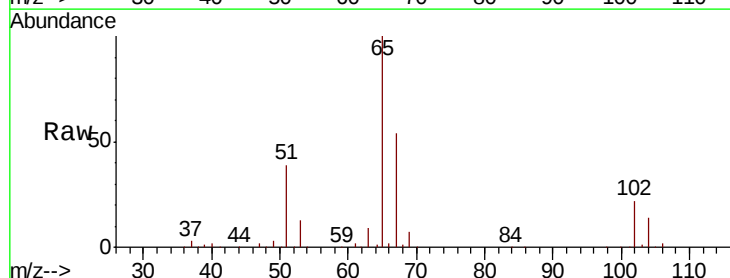
Acq: 07 Mar 2019 23:50

Tgt Ion: 65 Resp: 156259

Ion Ratio Lower Upper

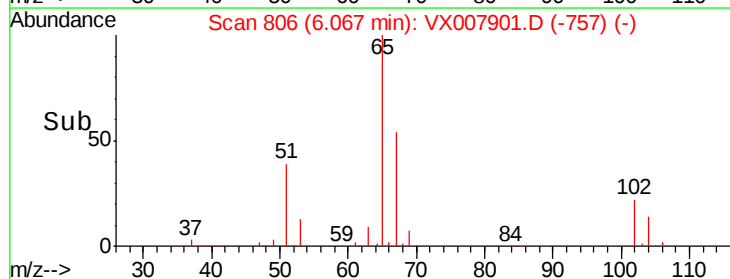
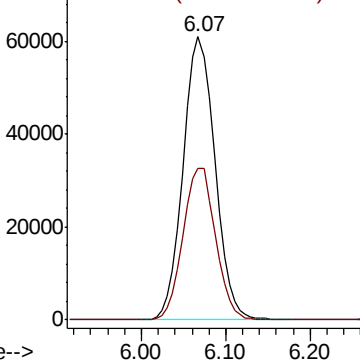
65 100

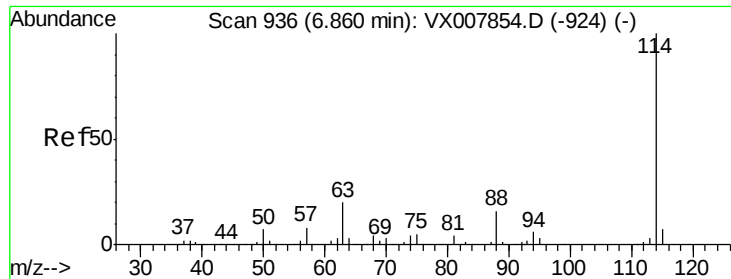
67 54.6 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

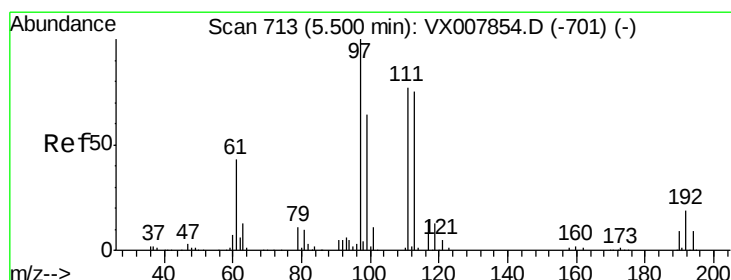
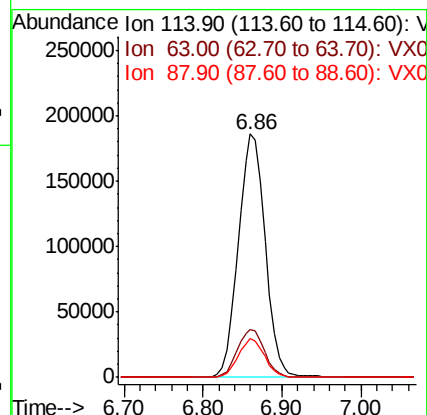
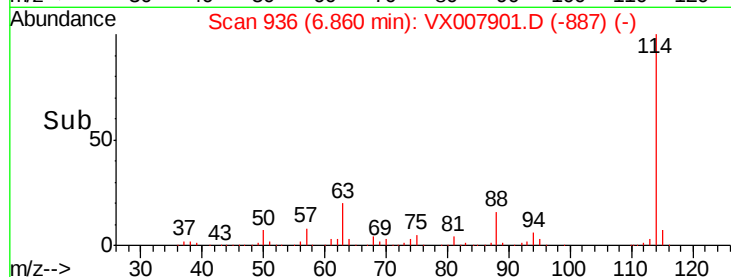
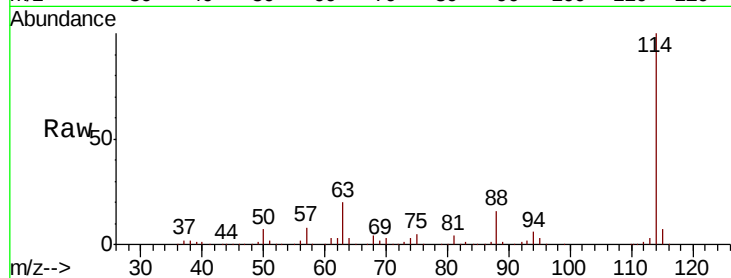




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX007901.D
Acq: 07 Mar 2019 23:50

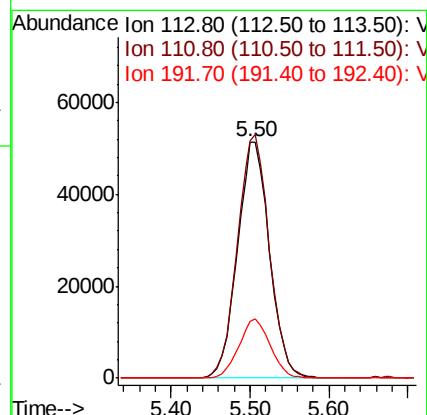
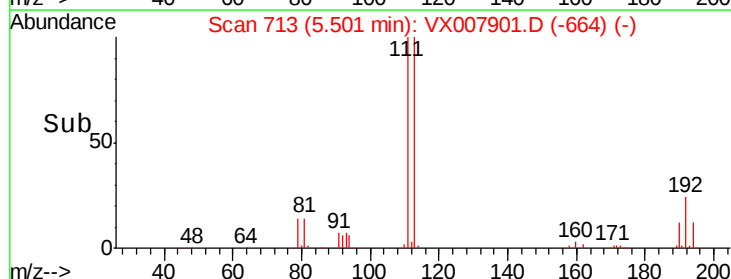
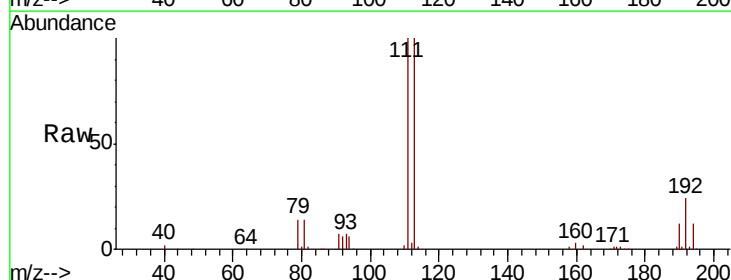
Instrument :
MSVOA_X
ClientSampleId :
PB117680TB

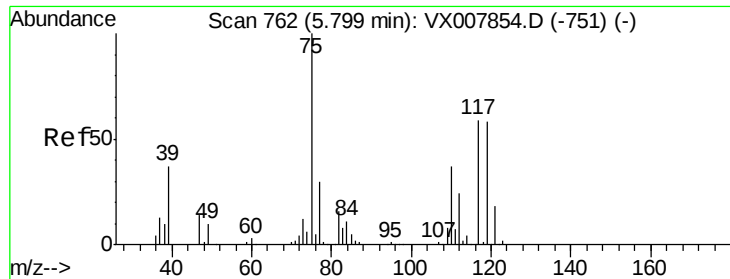
Tgt Ion:114 Resp: 441868
Ion Ratio Lower Upper
114 100
63 19.8 0.0 39.8
88 15.7 0.0 31.4



#35
Dibromofluoromethane
Concen: 51.288 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX007901.D
Acq: 07 Mar 2019 23:50

Tgt Ion:113 Resp: 144964
Ion Ratio Lower Upper
113 100
111 102.6 81.4 122.0
192 24.6 19.4 29.0

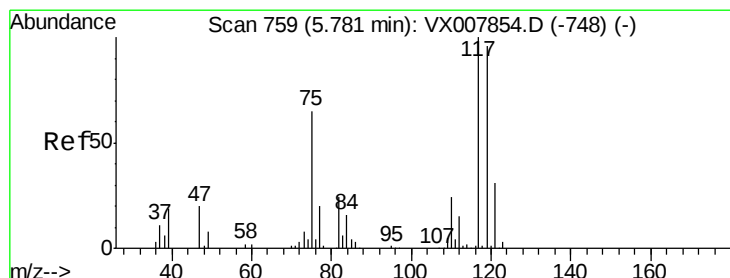
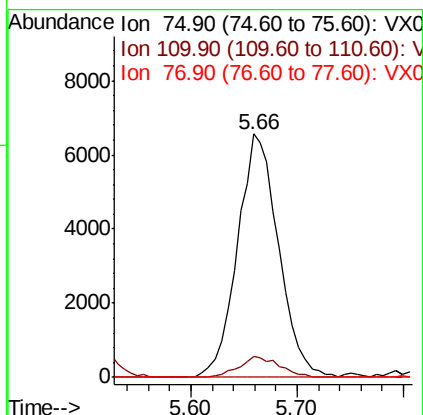
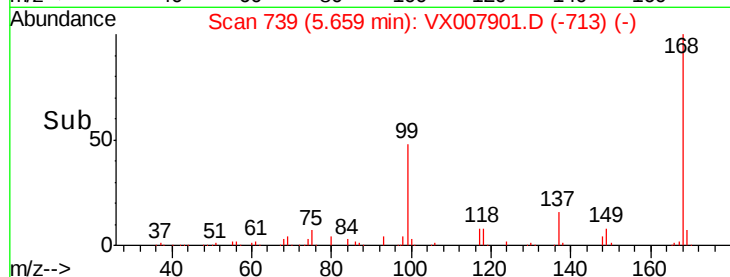
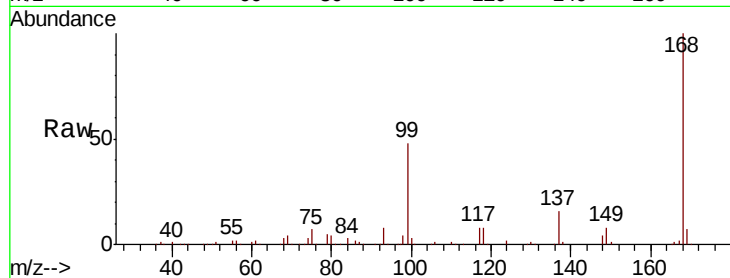




#36
 1,1-Dichloropropene
 Concen: 4.433 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX007901.D
 Acq: 07 Mar 2019 23:50

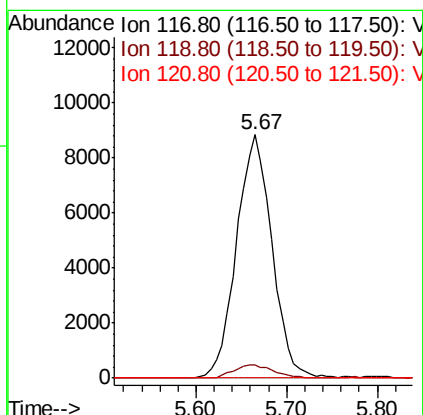
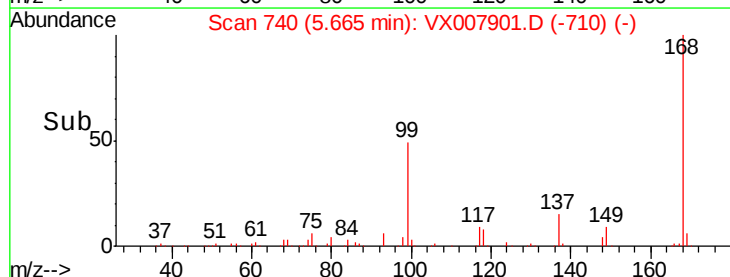
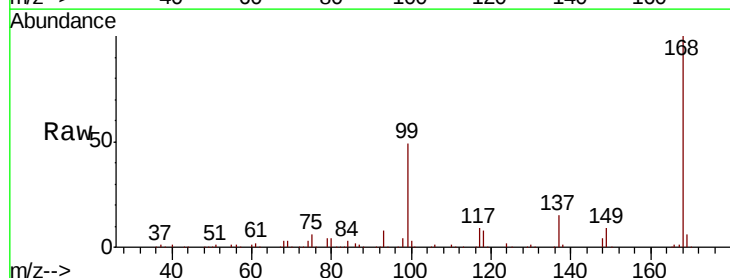
Instrument :
 MSVOA_X
 ClientSampleId :
 PB117680TB

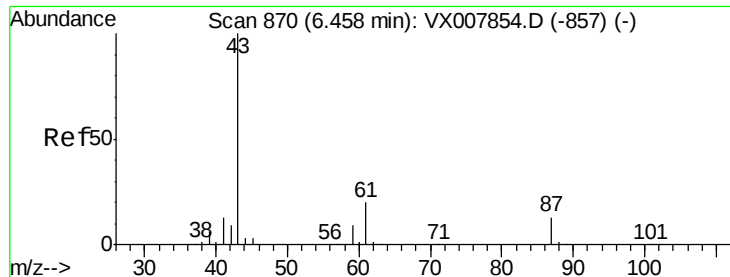
Tgt Ion: 75 Resp: 17737
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.4 55.0#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.311 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX007901.D
 Acq: 07 Mar 2019 23:50

Tgt Ion: 117 Resp: 23971
 Ion Ratio Lower Upper
 117 100
 119 5.4 76.2 114.2#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 2.465 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007901.D

Acq: 07 Mar 2019 23:50

Instrument :

MSVOA_X

ClientSampleId :

PB117680TB

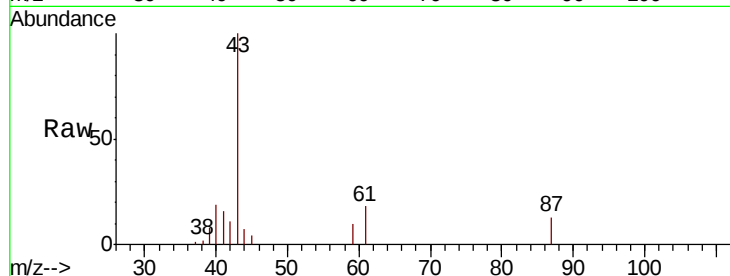
Tgt Ion: 43 Resp: 17319

Ion Ratio Lower Upper

43 100

61 20.2 16.3 24.5

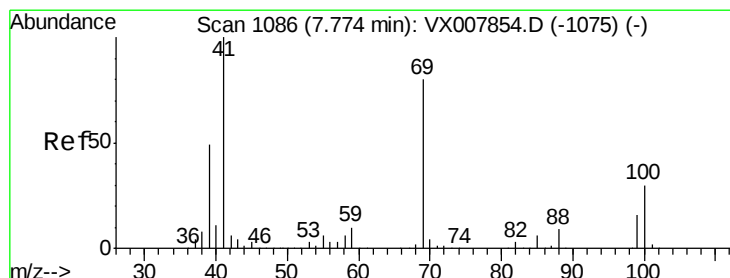
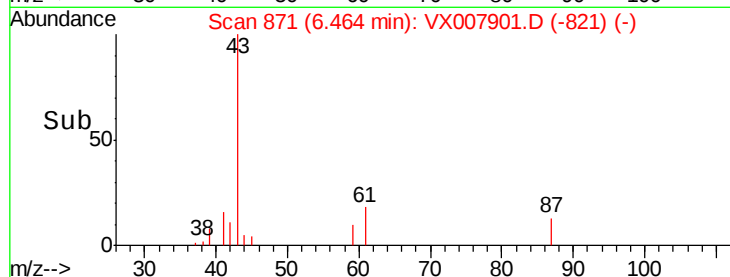
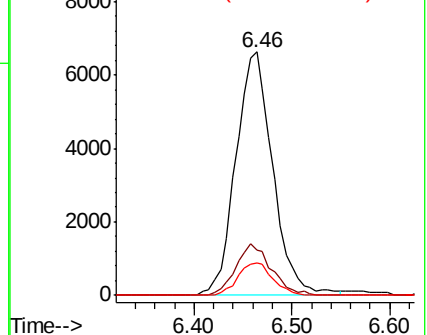
87 12.7 10.5 15.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 2.362 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007901.D

Acq: 07 Mar 2019 23:50

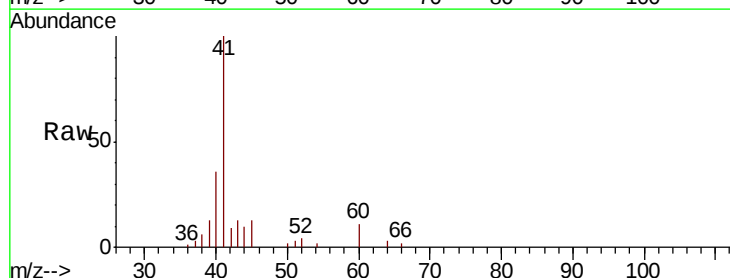
Tgt Ion: 41 Resp: 8725

Ion Ratio Lower Upper

41 100

69 0.0 65.2 97.8#

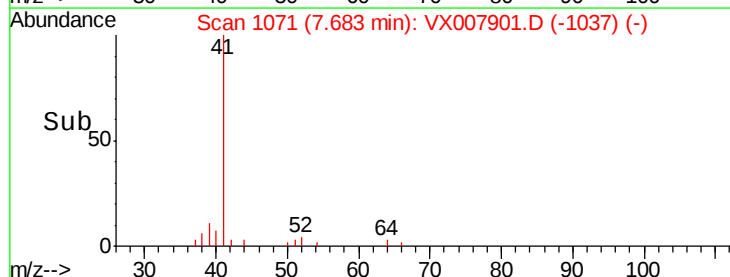
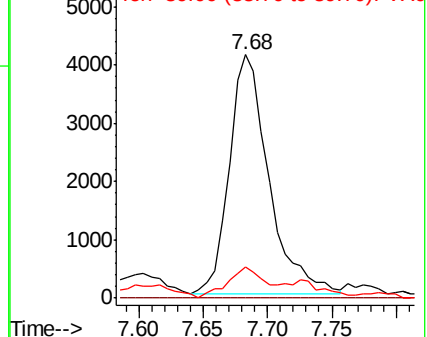
39 0.0 39.4 59.2#

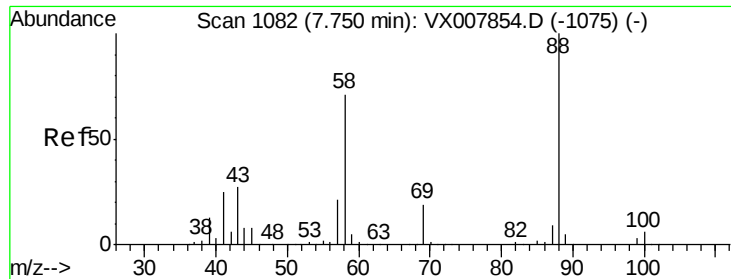


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 2.767 ug/l

RT: 7.88 min Scan# 1103

Delta R.T. 0.13 min

Lab File: VX007901.D

Acq: 07 Mar 2019 23:50

Instrument :

MSVOA_X

ClientSampleId :

PB117680TB

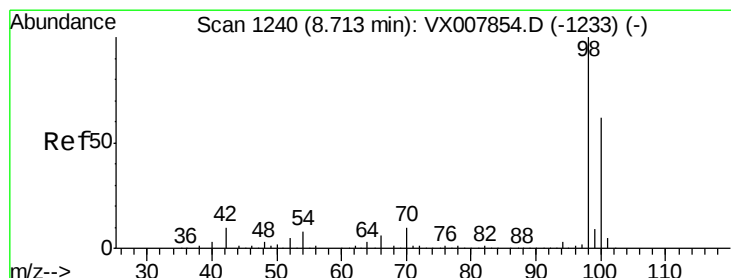
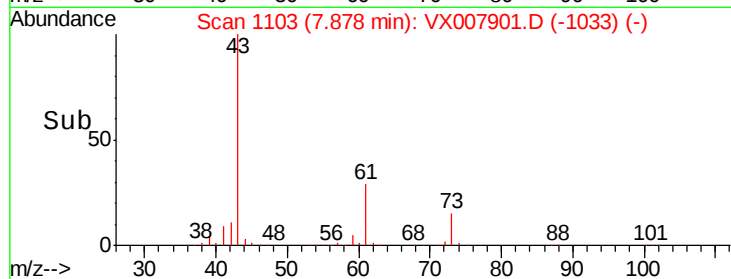
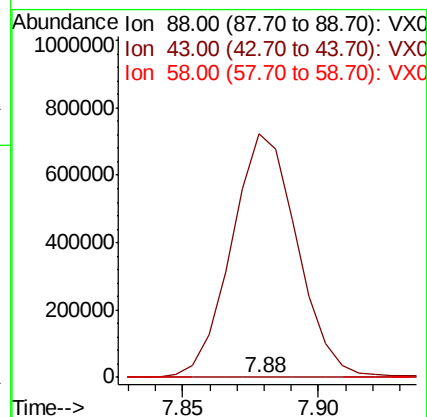
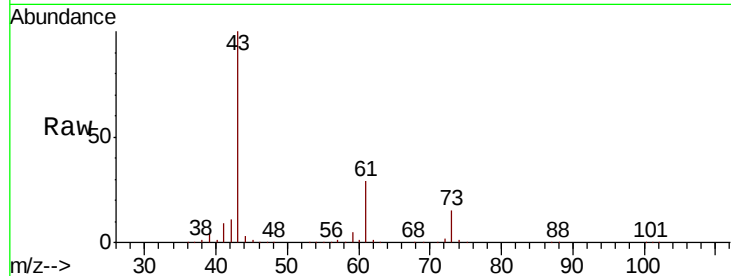
Tgt Ion: 88 Resp: 210

Ion Ratio Lower Upper

88 100

43 582435.2 25.1 37.7#

58 2531.9 57.8 86.6#



#50

Toluene-d8

Concen: 52.627 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007901.D

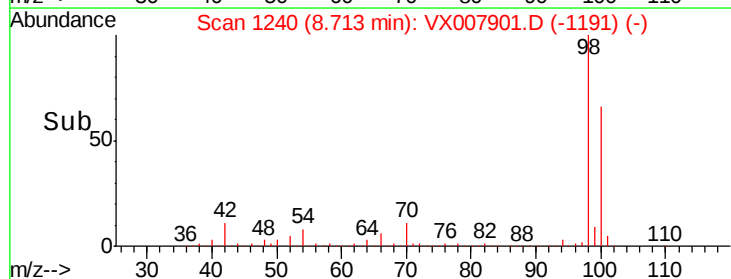
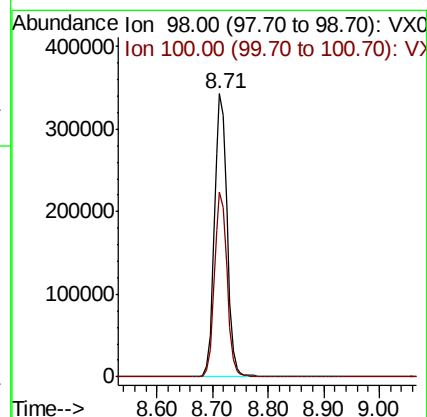
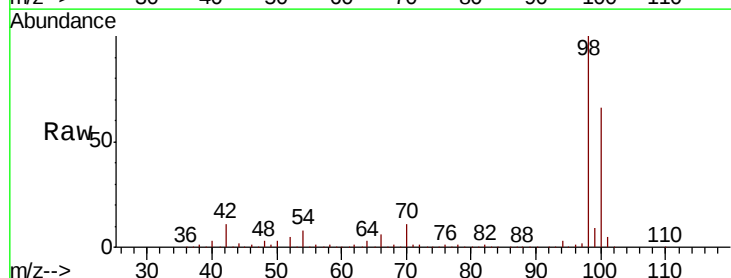
Acq: 07 Mar 2019 23:50

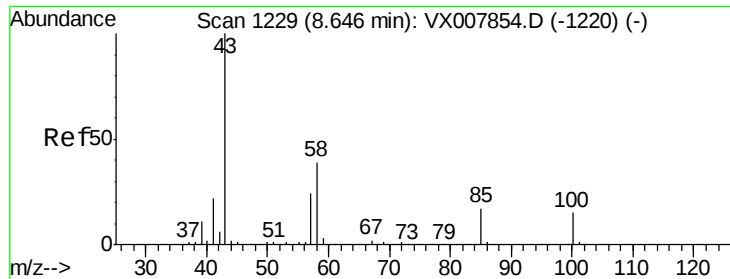
Tgt Ion: 98 Resp: 546290

Ion Ratio Lower Upper

98 100

100 64.9 51.7 77.5

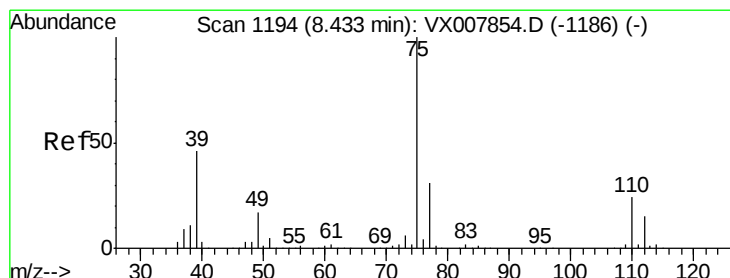
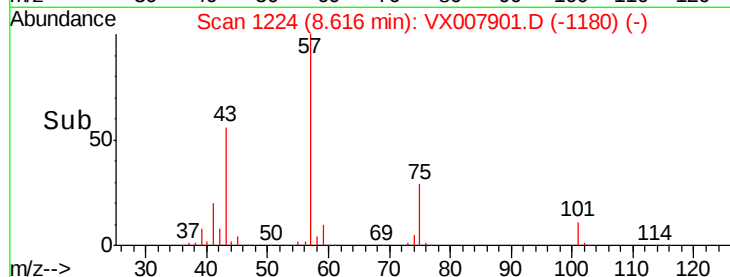
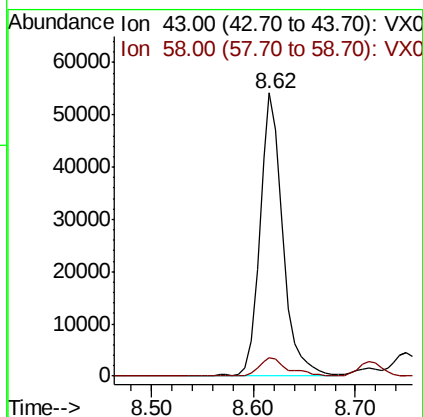
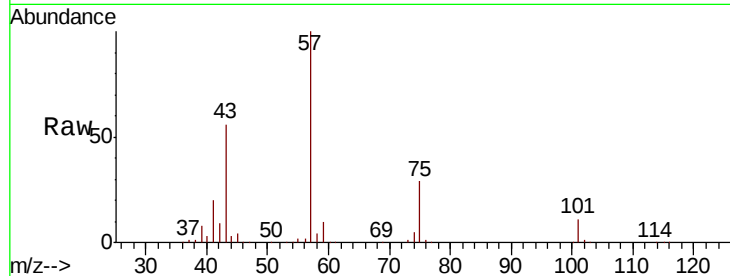




#51
 4-Methyl-2-Pentanone
 Concen: 18.582 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. -0.03 min
 Lab File: VX007901.D
 Acq: 07 Mar 2019 23:50

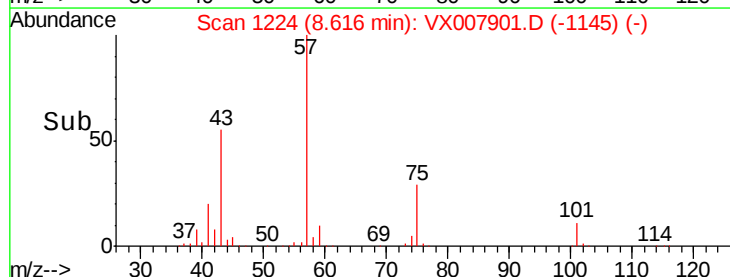
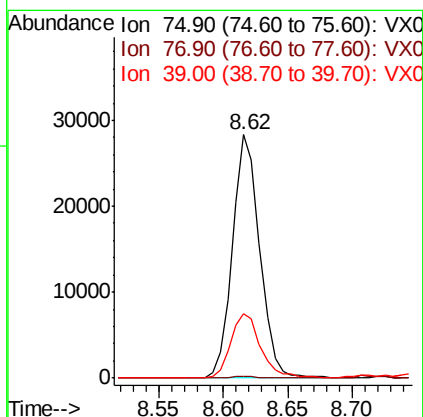
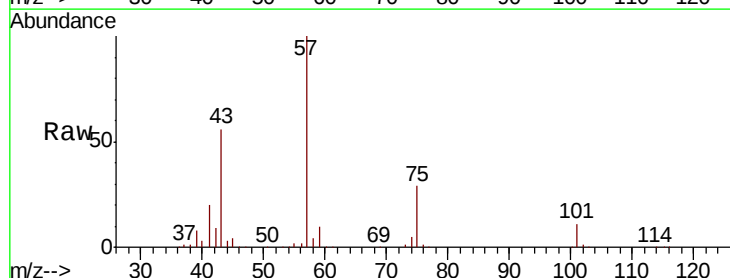
Instrument :
 MSVOA_X
 ClientSampleId :
 PB117680TB

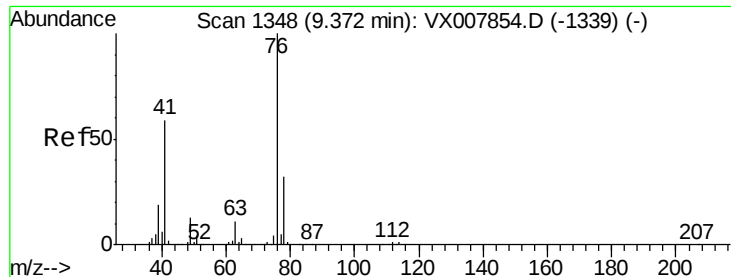
Tgt Ion: 43 Resp: 83971
 Ion Ratio Lower Upper
 43 100
 58 8.2 31.3 46.9#



#54
 cis-1,3-Dichloropropene
 Concen: 9.374 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX007901.D
 Acq: 07 Mar 2019 23:50

Tgt Ion: 75 Resp: 41707
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.0 37.6#
 39 26.6 36.6 54.8#

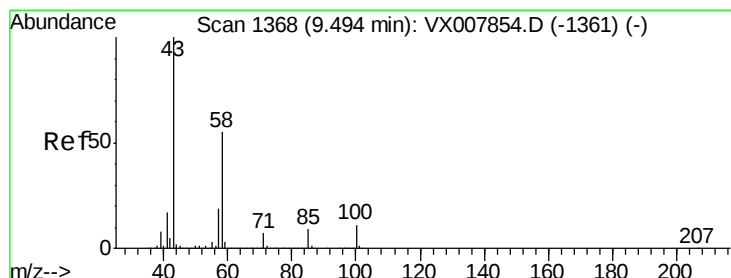
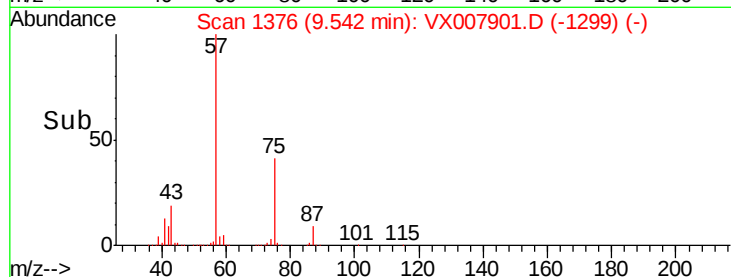
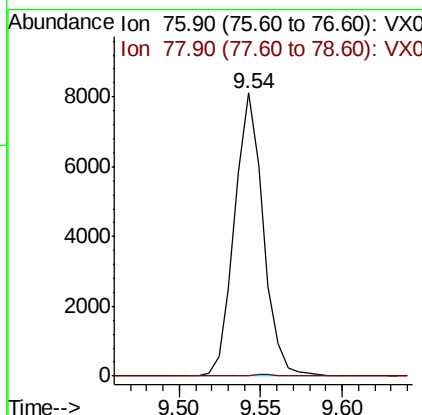
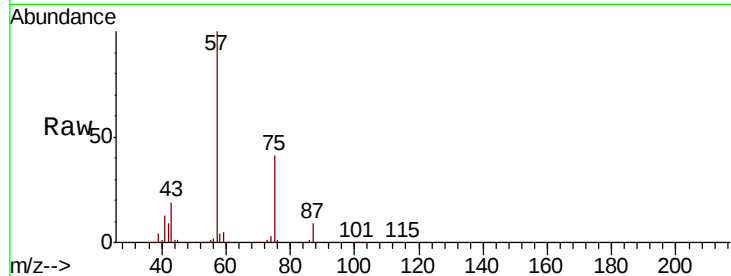




#57
 1,3-Dichloropropane
 Concen: 2.009 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.17 min
 Lab File: VX007901.D
 Acq: 07 Mar 2019 23:50

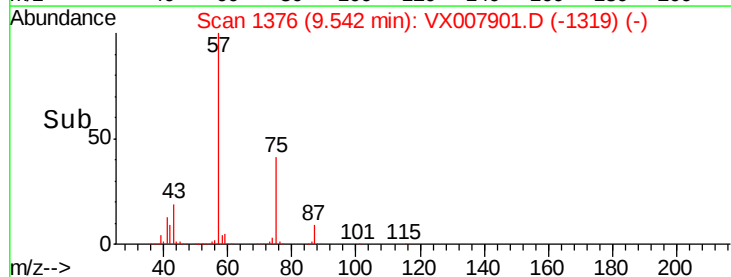
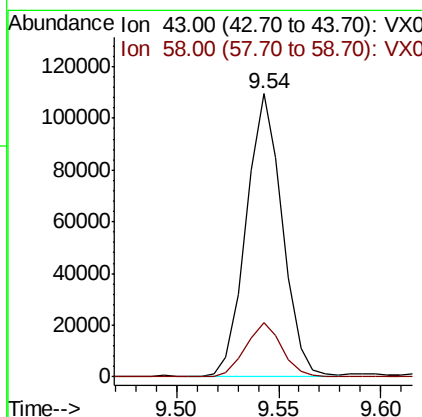
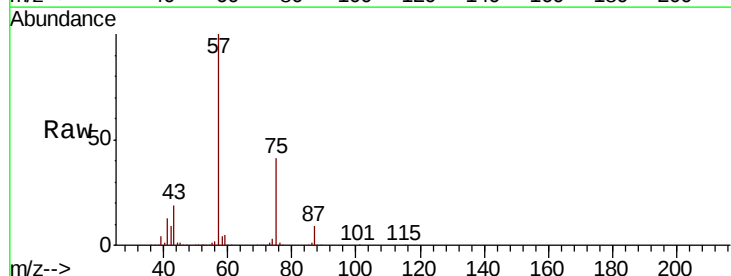
Instrument :
 MSVOA_X
 ClientSampleId :
 PB117680TB

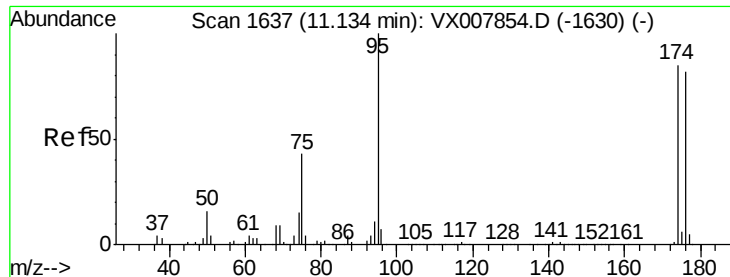
Tgt Ion: 76 Resp: 9929
 Ion Ratio Lower Upper
 76 100
 78 0.4 25.5 38.3#



#59
 2-Hexanone
 Concen: 38.056 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.05 min
 Lab File: VX007901.D
 Acq: 07 Mar 2019 23:50

Tgt Ion: 43 Resp: 133518
 Ion Ratio Lower Upper
 43 100
 58 19.7 27.6 82.7#

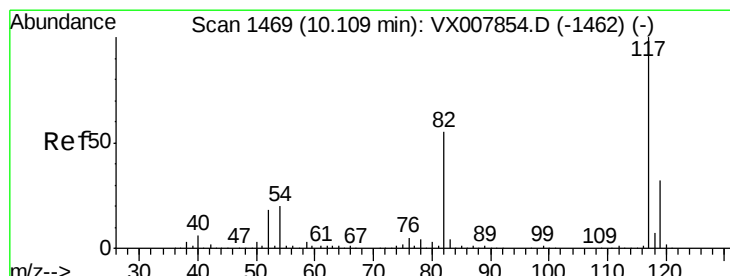
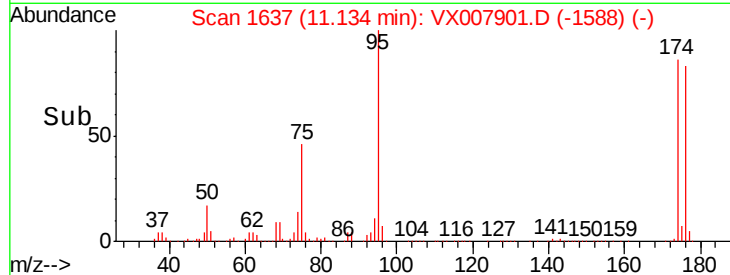
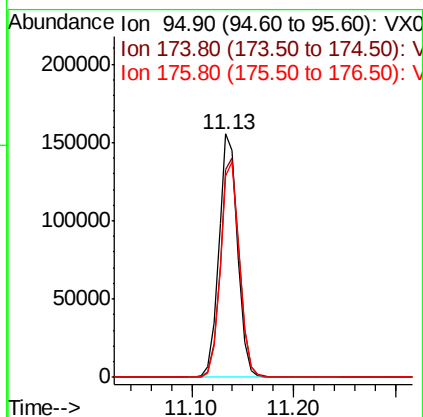
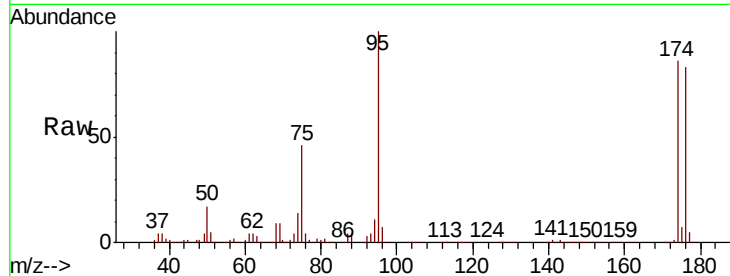




#62
4-Bromofluorobenzene
Concen: 54.950 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007901.D
Acq: 07 Mar 2019 23:50

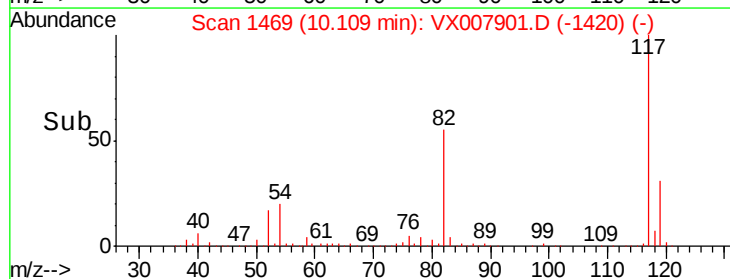
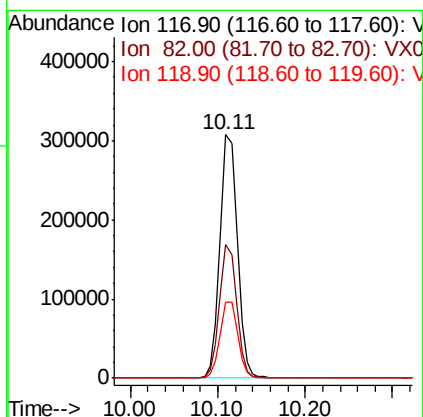
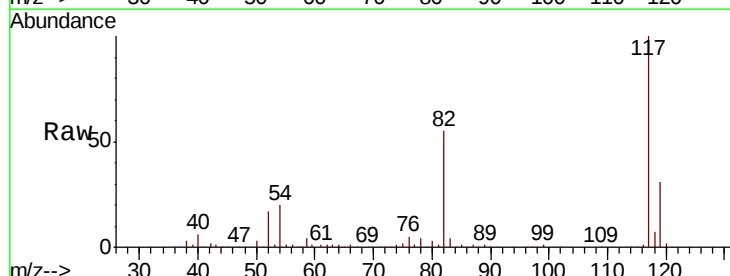
Instrument :
MSVOA_X
ClientSampleId :
PB117680TB

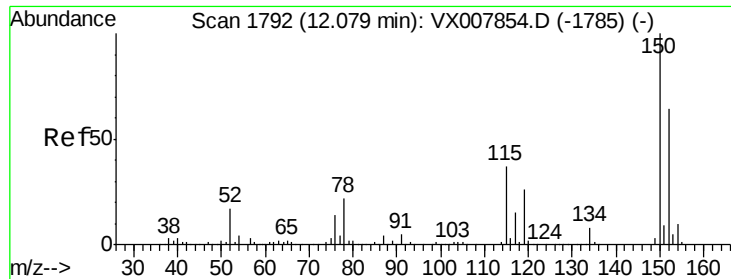
Tgt Ion: 95 Resp: 199985
Ion Ratio Lower Upper
95 100
174 91.2 0.0 182.8
176 88.8 0.0 178.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007901.D
Acq: 07 Mar 2019 23:50

Tgt Ion: 117 Resp: 424822
Ion Ratio Lower Upper
117 100
82 54.8 44.3 66.5
119 31.4 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007901.D

Acq: 07 Mar 2019 23:50

Instrument :

MSVOA_X

ClientSampleId :

PB117680TB

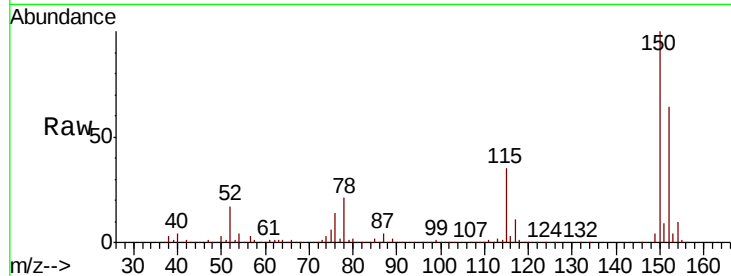
Tgt Ion:152 Resp: 200323

Ion Ratio Lower Upper

152 100

115 55.9 38.6 115.7

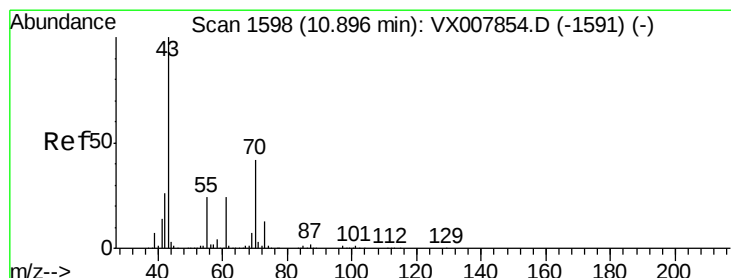
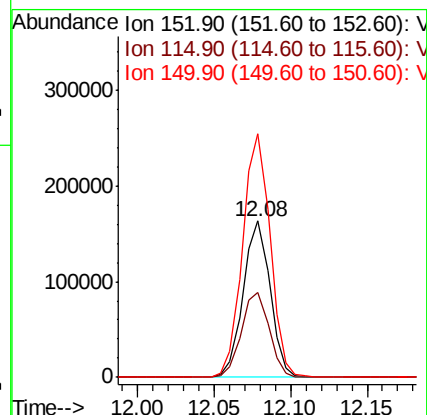
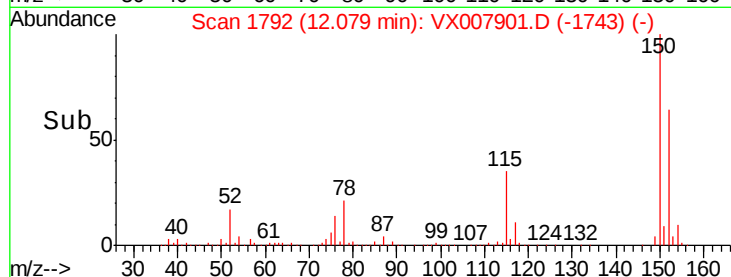
150 158.2 0.0 348.4



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



#74

N-ethyl acetate

Concen: 2.254 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007901.D

Acq: 07 Mar 2019 23:50

Tgt Ion: 43 Resp: 13943

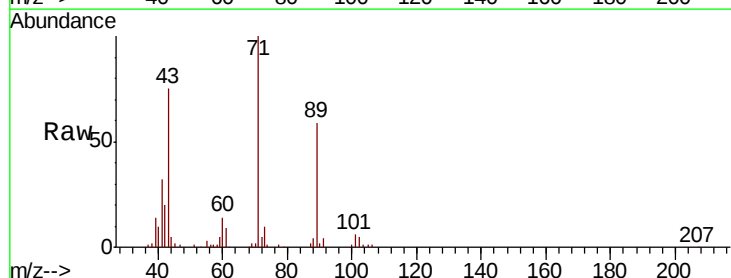
Ion Ratio Lower Upper

43 100

70 2.5 33.5 50.3#

55 5.0 19.2 28.8#

61 11.7 19.0 28.6#

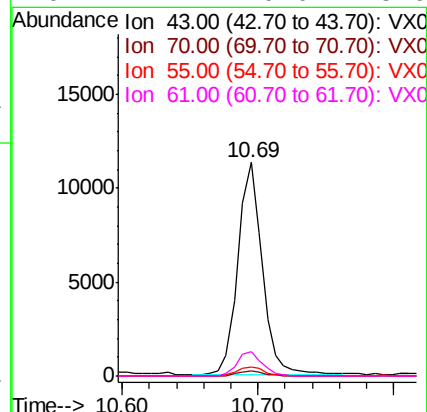
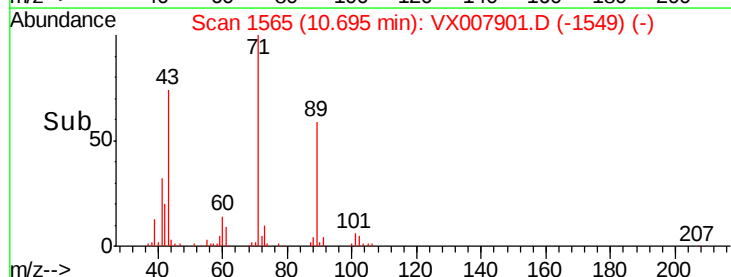


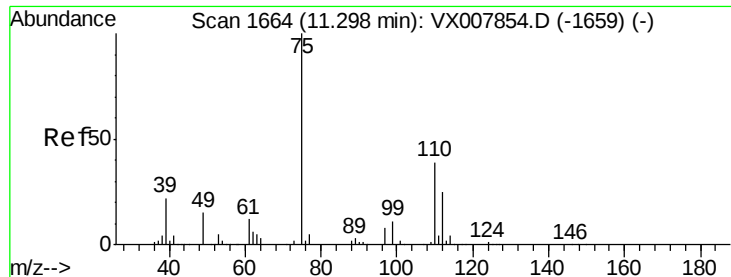
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 21.711 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007901.D

Acq: 07 Mar 2019 23:50

Instrument :

MSVOA_X

ClientSampleId :

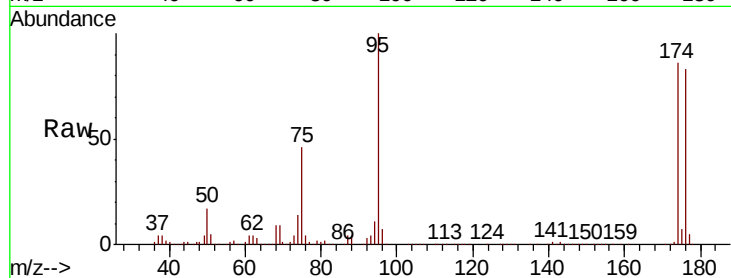
PB117680TB

Tgt Ion: 75 Resp: 91266

Ion Ratio Lower Upper

75 100

77 1.4 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX007854.D (-1659) (-)

Ion 77.00 (76.70 to 77.70): VX007854.D (-1659) (-)

11.13

80000

60000

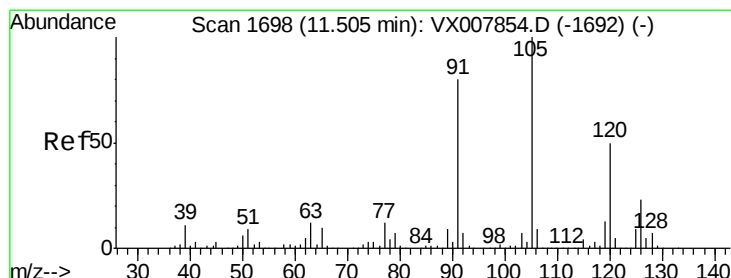
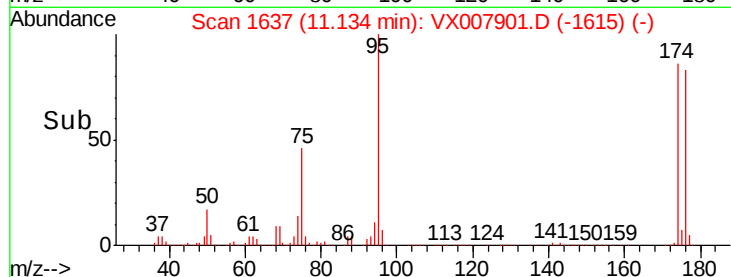
40000

20000

0

Time-->

11.10 11.20



#80

1,3,5-Trimethylbenzene

Concen: 0.680 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007901.D

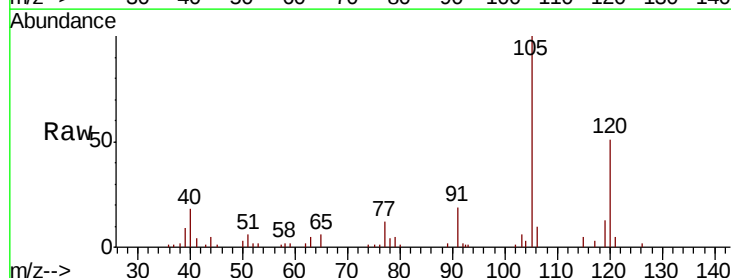
Acq: 07 Mar 2019 23:50

Tgt Ion: 105 Resp: 7580

Ion Ratio Lower Upper

105 100

120 49.3 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VX007854.D (-1692) (-)

Ion 120.00 (119.70 to 120.70): VX007854.D (-1692) (-)

11.51

6000

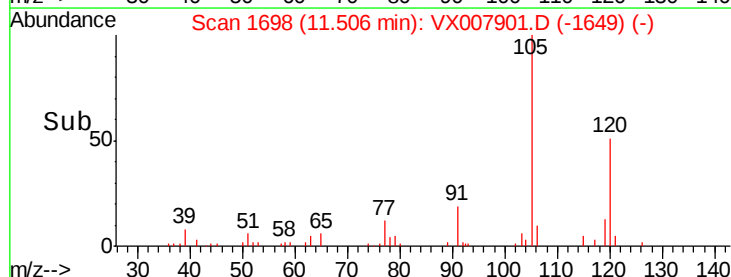
4000

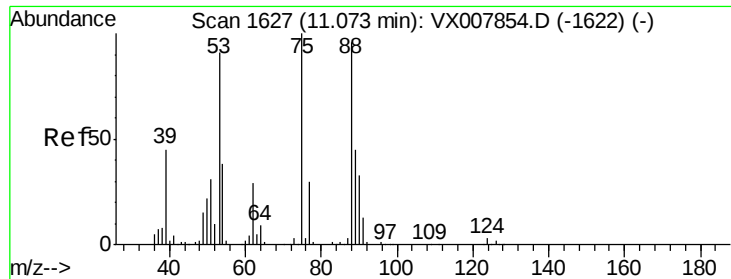
2000

0

Time-->

11.45 11.50 11.55





#81

trans-1,4-Dichloro-2-butene

Concen: 69.400 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007901.D

Acq: 07 Mar 2019 23:50

Instrument :

MSVOA_X

ClientSampleId :

PB117680TB

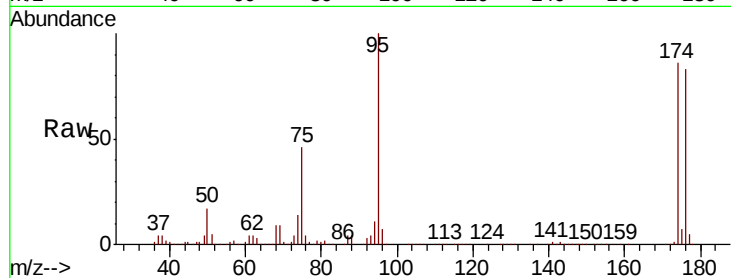
Tgt Ion: 75 Resp: 91266

Ion Ratio Lower Upper

75 100

53 0.1 76.1 114.1#

89 0.0 36.3 54.5#



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

