

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070318\
 Data File : VX003159.D
 Acq On : 03 Jul 2018 19:53
 Operator : JC/MD
 Sample : J3815-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 964

Quant Time: Jul 04 03:19:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	271945	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	373720	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	349028	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	198932	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	175785	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	
35) Dibromofluoromethane	5.51	113	144823	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
50) Toluene-d8	8.72	98	532226	49.25	ug/l	0.00
Spiked Amount			Recovery	=	98.50%	
62) 4-Bromofluorobenzene	11.14	95	185456	44.50	ug/l	0.00
Spiked Amount			Recovery	=	89.00%	

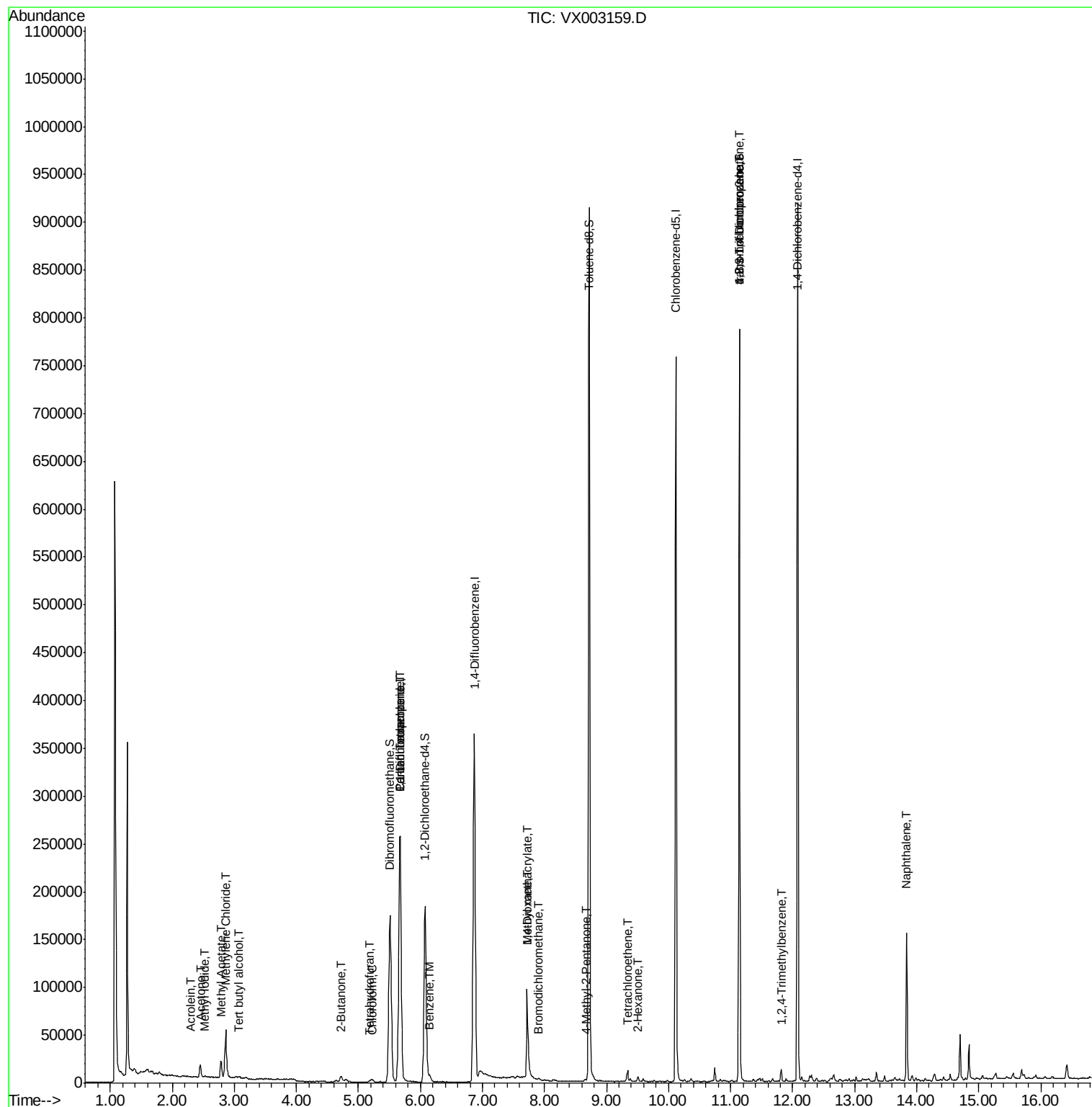
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.33	85	21	Below Cal	#	43
3) Chloromethane	1.32	50	535	Below Cal		91
5) Bromomethane	1.66	94	1759	Below Cal		81
6) Chloroethane	1.65	64	455	Below Cal	#	52
10) Methyl Iodide	2.52	142	1584	6.68	ug/l	93
11) Tert butyl alcohol	3.07	59	2508	3.35	ug/l	79
13) Acrolein	2.30	56	207	4.72	ug/l	46
16) Acetone	2.45	43	13628	8.75	ug/l	89
18) Methyl Acetate	2.78	43	22142	5.09	ug/l	97
20) Methylene Chloride	2.86	84	23291	7.69	ug/l	94
25) 2-Butanone	4.71	43	10387	4.50	ug/l	98
29) Tetrahydrofuran	5.19	42	1433	0.97	ug/l	76
30) Chloroform	5.22	83	2579	0.46	ug/l	98
36) 1,1-Dichloropropene	5.67	75	17357	4.24	ug/l	51
38) Carbon Tetrachloride	5.67	117	23268	5.17	ug/l	16
40) Benzene	6.15	78	7221	0.61	ug/l	97
47) Bromodichloromethane	7.90	83	990	0.24	ug/l	84
48) Methyl methacrylate	7.72	41	3160	0.83	ug/l	22
49) 1,4-Dioxane	7.73	88	24	0.32	ug/l	1
51) 4-Methyl-2-Pentanone	8.66	43	1378	0.30	ug/l	79
59) 2-Hexanone	9.51	43	3038	0.86	ug/l	96
64) Tetrachloroethene	9.34	164	2594	0.67	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	94097	26.11	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	94097	74.03	ug/l	7
84) 1,2,4-Trimethylbenzene	11.81	105	2869	0.25	ug/l	97
95) Naphthalene	13.83	128	98700	7.25	ug/l	99

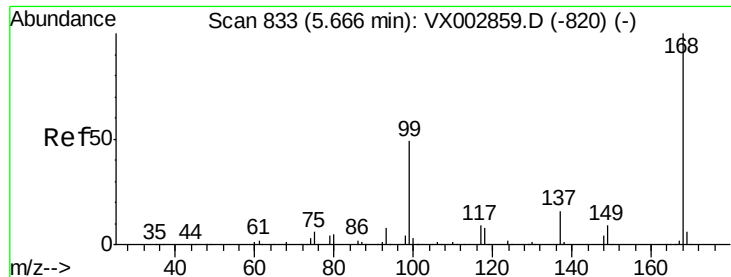
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jun 25 14:38:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

Instrument :

MSVOA_X

ClientSampleId :

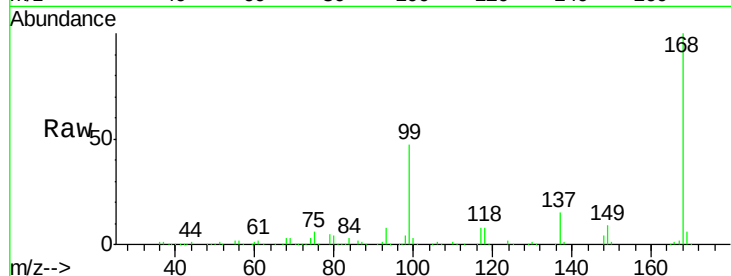
964

Tot Ion:168 Resp: 271945

Ion Ratio Lower Upper

168 100

99 46.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

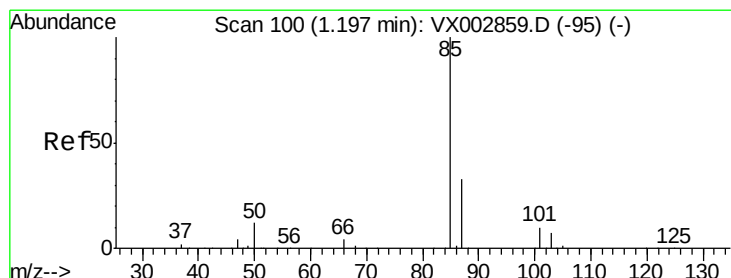
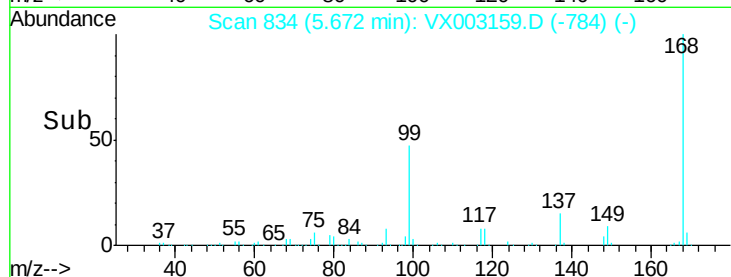
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.14 min

Lab File: VX003159.D

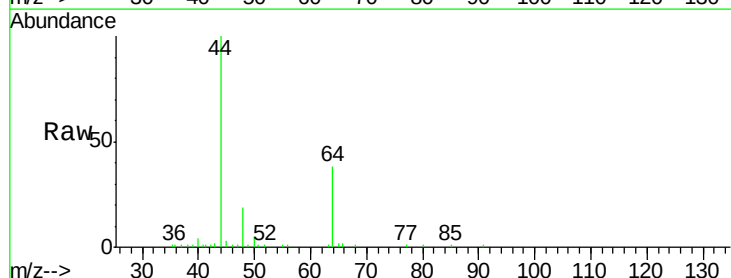
Acq: 03 Jul 2018 19:53

Tgt Ion: 85 Resp: 21

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.33

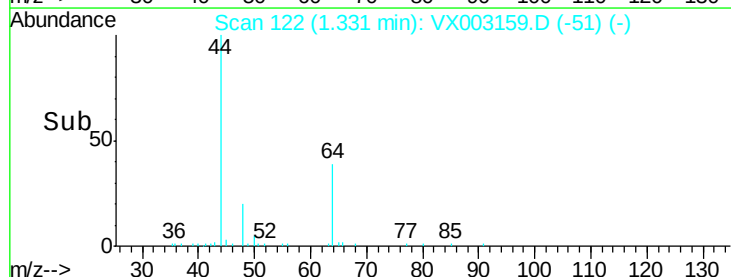
60

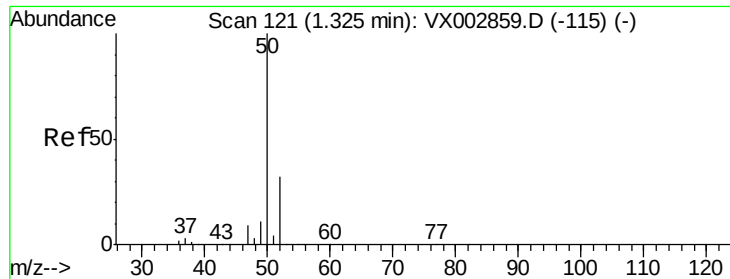
40

20

0

Time--> 1.31 1.32 1.33 1.34 1.35





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

Instrument :

MSVOA_X

ClientSampleId :

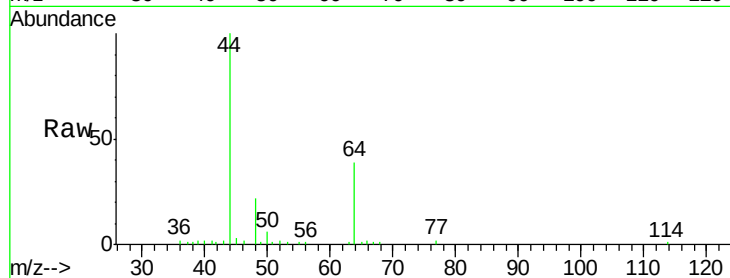
964

Tot Ion: 50 Resp: 535

Ion Ratio Lower Upper

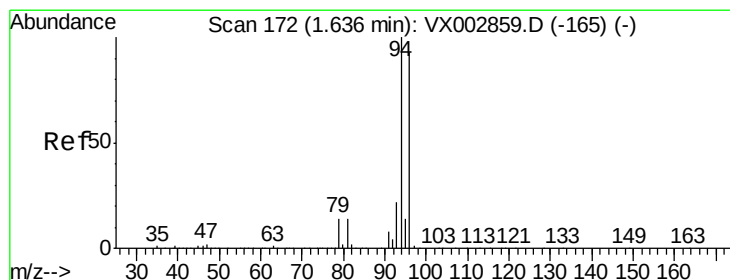
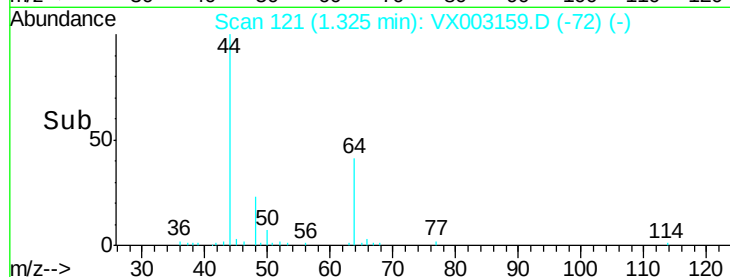
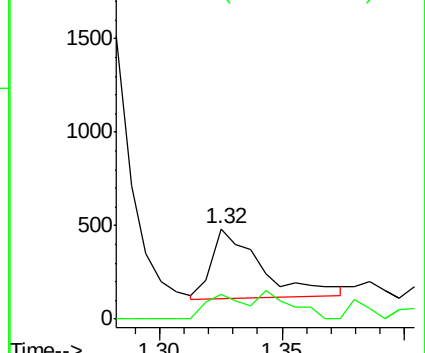
50 100

52 36.9 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003159.D

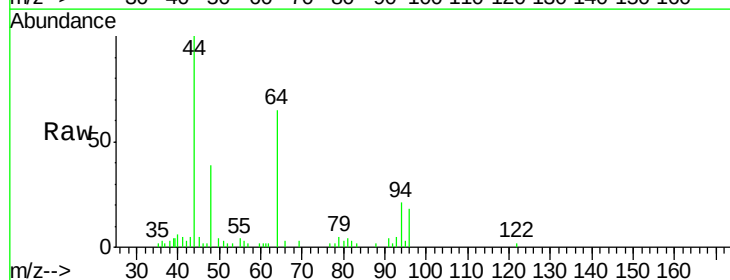
Acq: 03 Jul 2018 19:53

Tgt Ion: 94 Resp: 1759

Ion Ratio Lower Upper

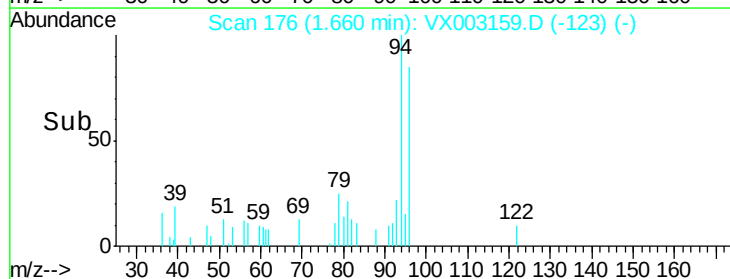
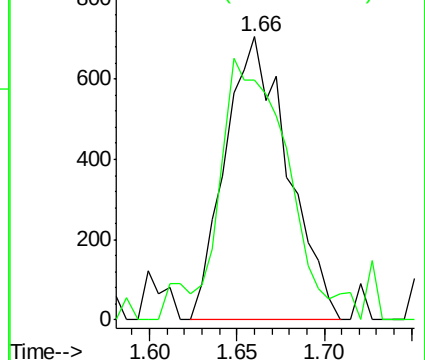
94 100

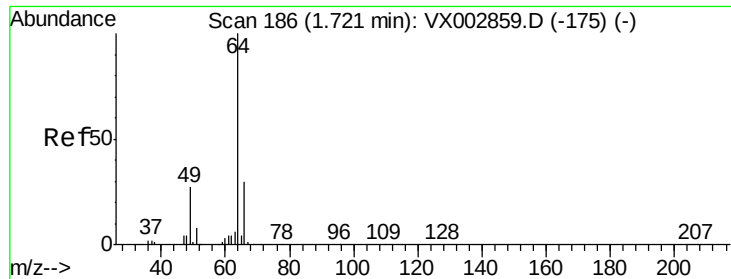
96 75.7 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. -0.07 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

Instrument :

MSVOA_X

ClientSampled :

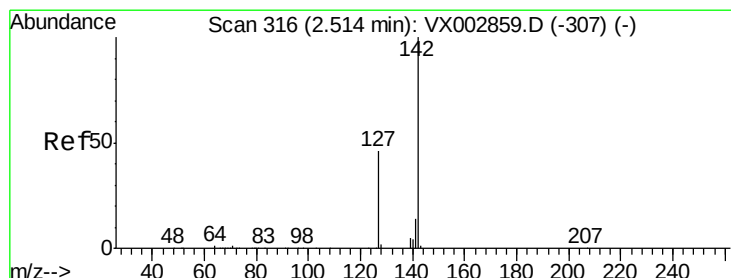
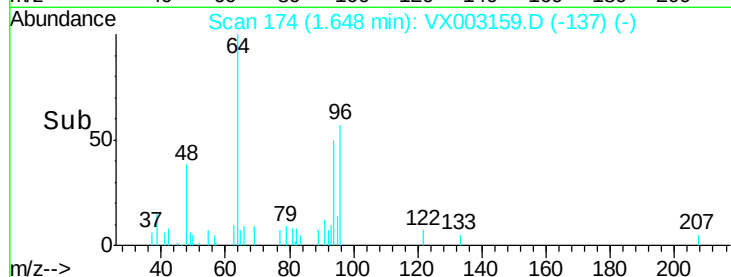
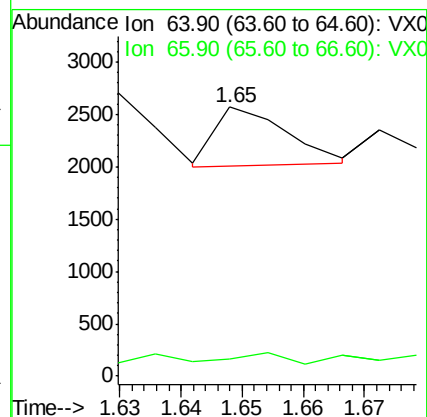
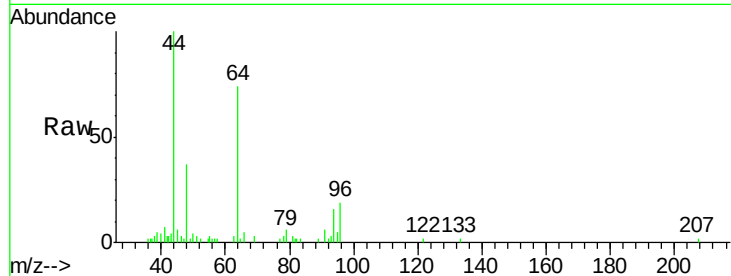
964

Tot Ion: 64 Resp: 455

Ion Ratio Lower Upper

64 100

66 5.3 25.5 38.3#



#10

Methyl Iodide

Concen: 6.68 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

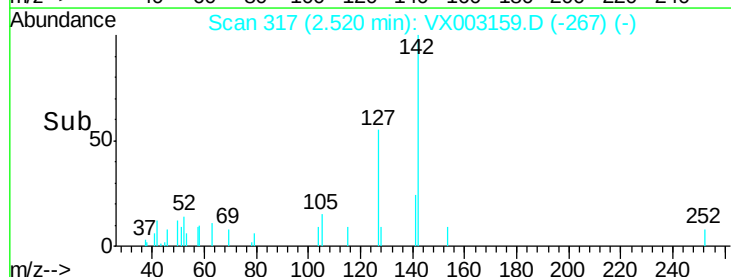
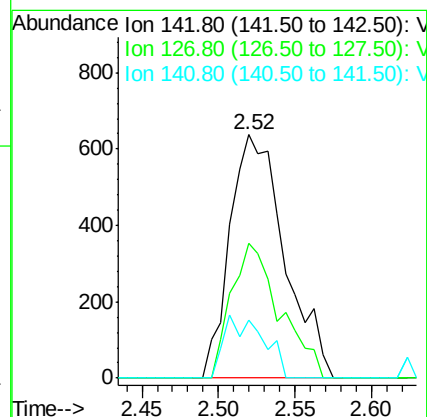
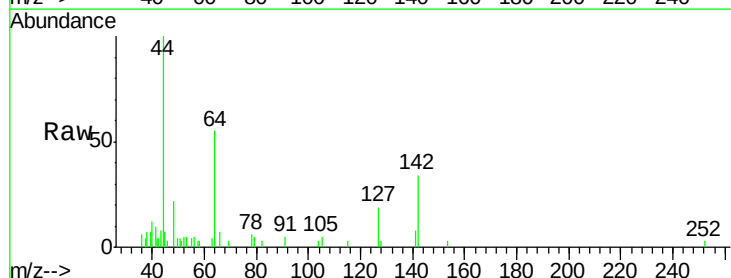
Tgt Ion: 142 Resp: 1584

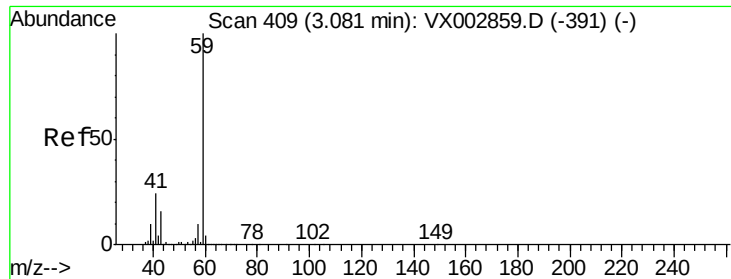
Ion Ratio Lower Upper

142 100

127 49.3 36.6 55.0

141 18.4 11.3 16.9#



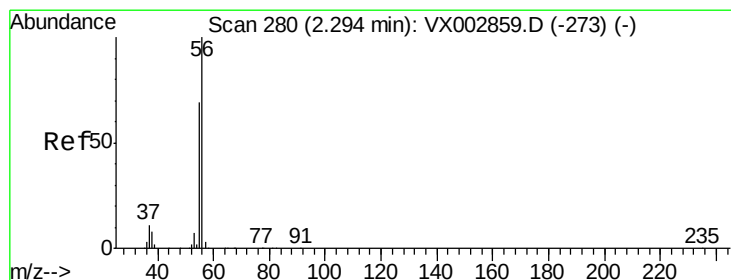
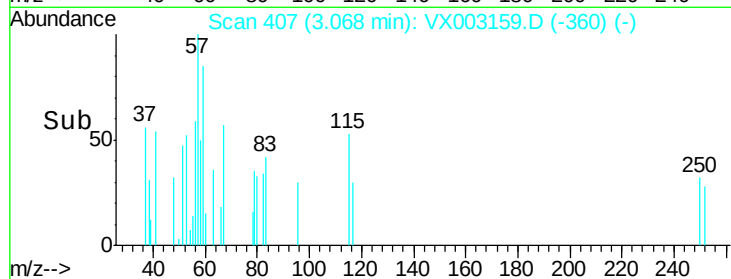
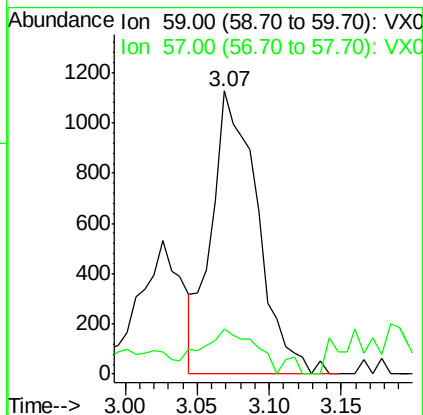
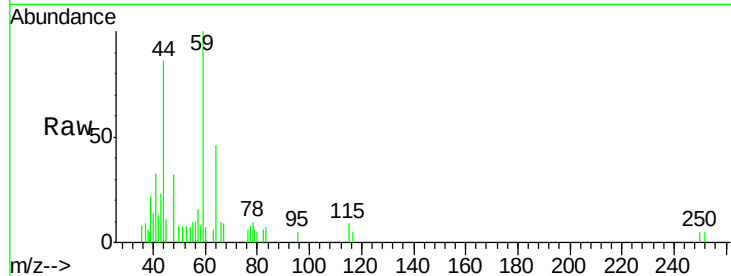


#11

Tert butyl alcohol
 Concen: 3.35 ug/l
 RT: 3.07 min Scan# 407
 Delta R.T. -0.01 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

Instrument :
 MSVOA_X
 ClientSampled :
 964

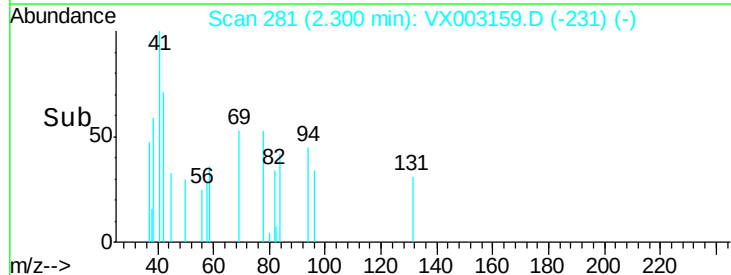
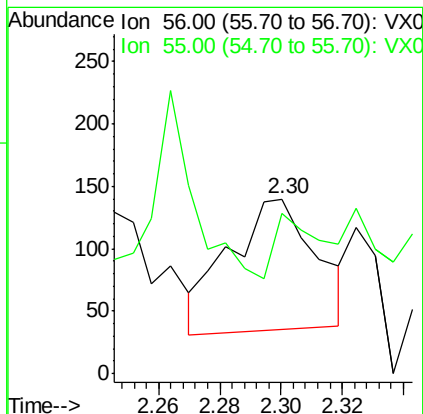
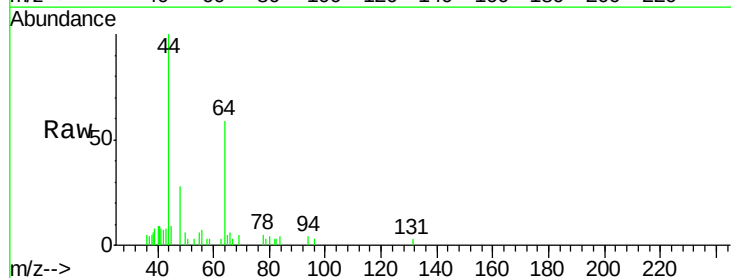
Tot Ion: 59 Resp: 2508
 Ion Ratio Lower Upper
 59 100
 57 18.1 8.2 12.2#

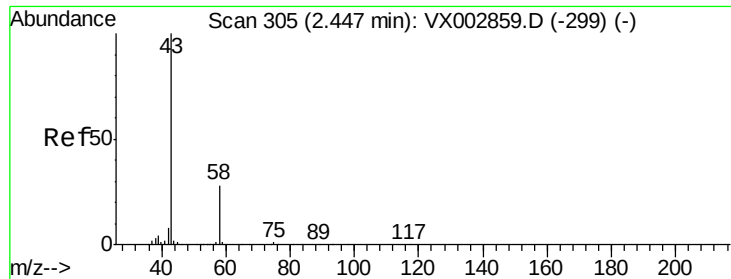


#13

Acrolein
 Concen: 4.72 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. 0.01 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

Tgt Ion: 56 Resp: 207
 Ion Ratio Lower Upper
 56 100
 55 26.6 57.0 85.4#





#16

Acetone

Concen: 8.75 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

Instrument :

MSVOA_X

ClientSampled :

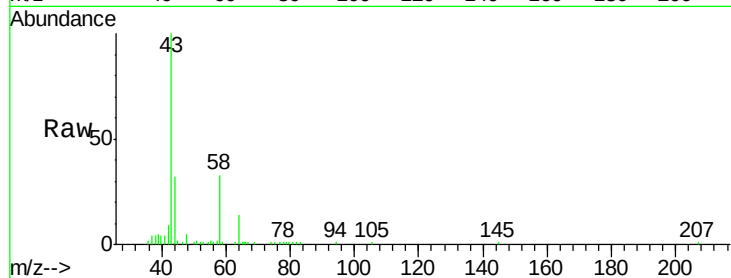
964

Tot Ion: 43 Resp: 13628

Ion Ratio Lower Upper

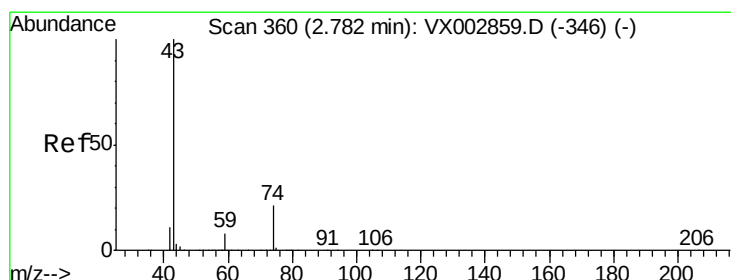
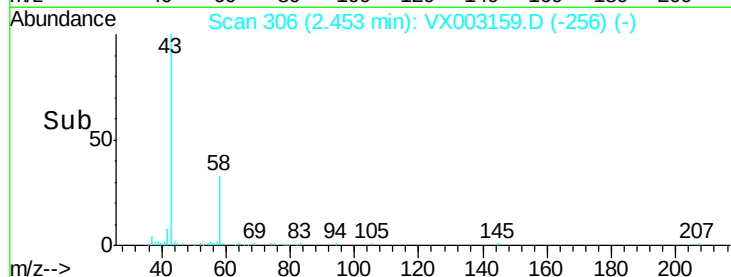
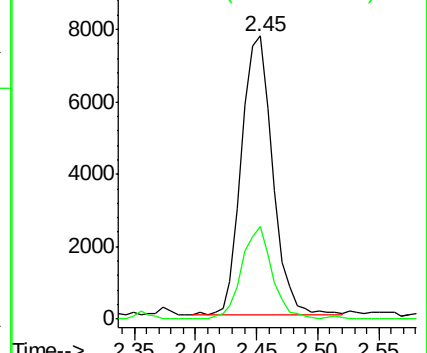
43 100

58 33.1 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 5.09 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003159.D

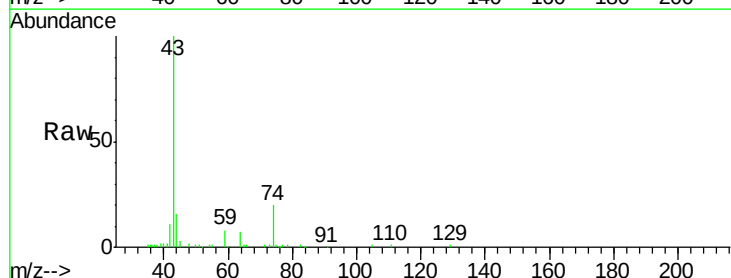
Acq: 03 Jul 2018 19:53

Tgt Ion: 43 Resp: 22142

Ion Ratio Lower Upper

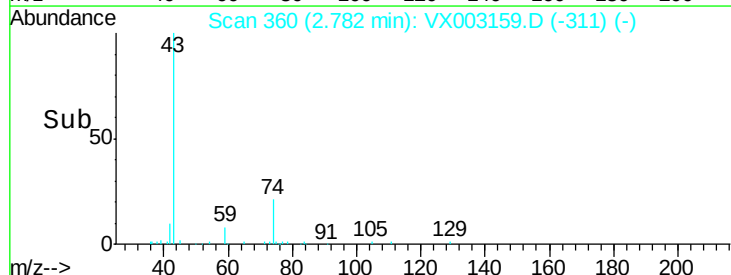
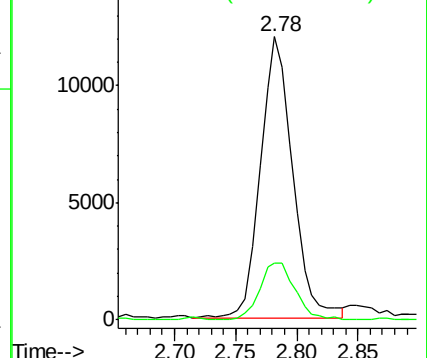
43 100

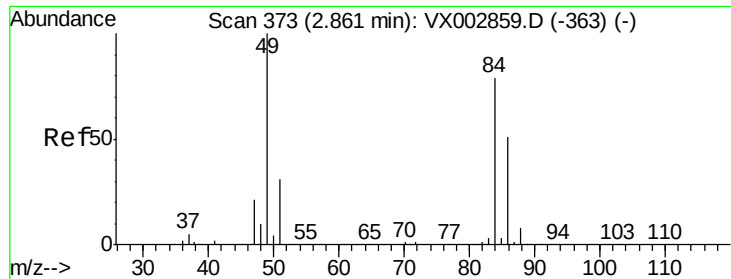
74 22.2 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

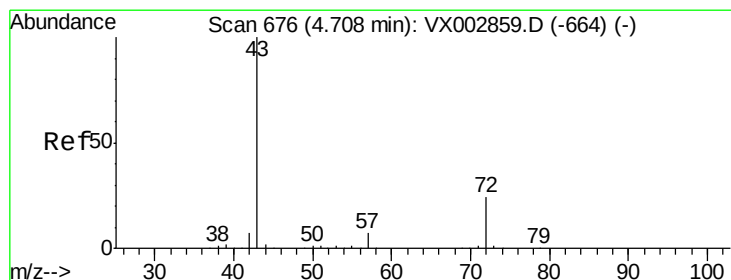
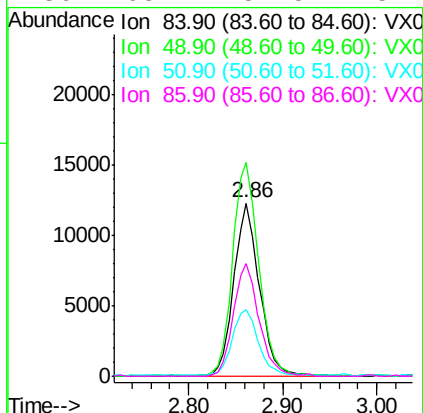
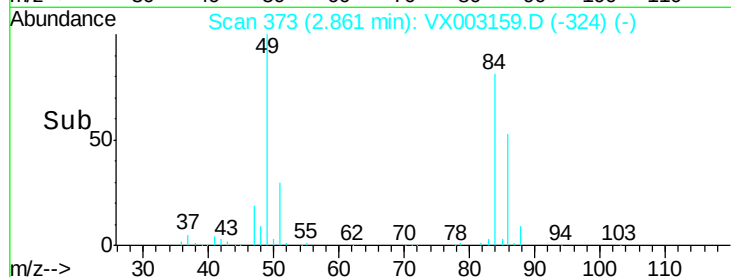
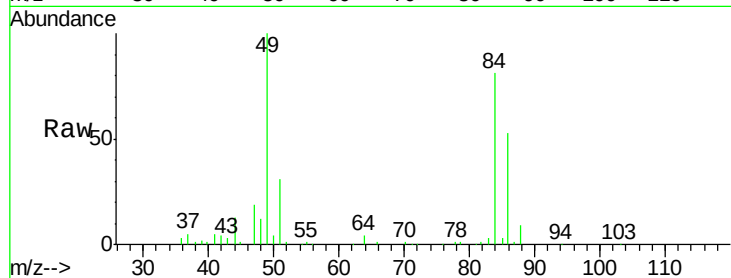




#20
Methylene Chloride
Concen: 7.69 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

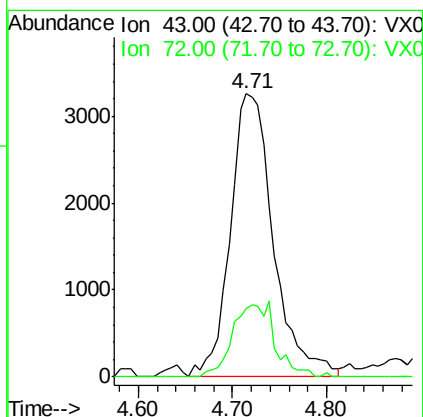
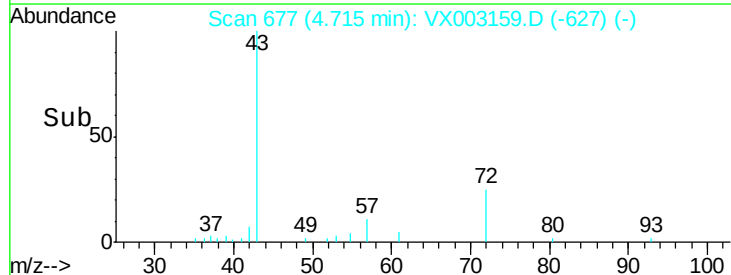
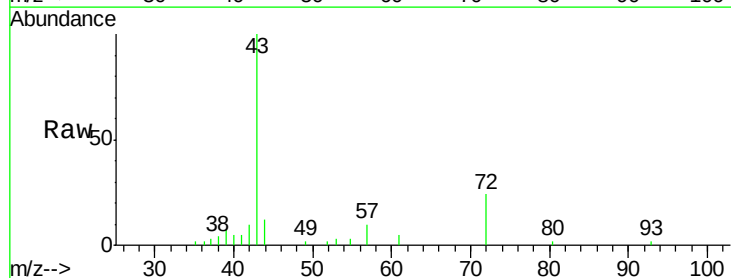
Instrument :
MSVOA_X
ClientSampled :
964

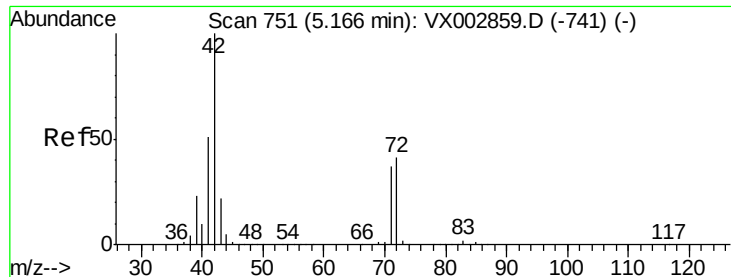
Tot Ion: 84 Resp: 23291
Ion Ratio Lower Upper
84 100
49 123.4 107.8 161.6
51 37.6 32.8 49.2
86 65.4 52.5 78.7



#25
2-Butanone
Concen: 4.50 ug/l
RT: 4.71 min Scan# 677
Delta R.T. 0.01 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

Tgt Ion: 43 Resp: 10387
Ion Ratio Lower Upper
43 100
72 23.9 18.5 27.7





#29

Tetrahydrofuran

Concen: 0.97 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.02 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

Instrument :

MSVOA_X

ClientSampled :

964

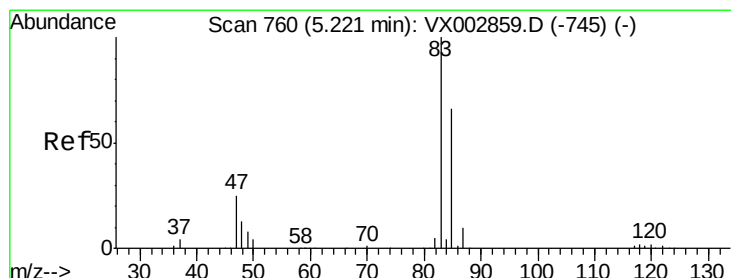
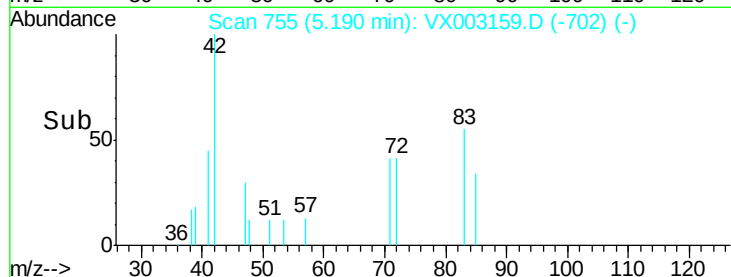
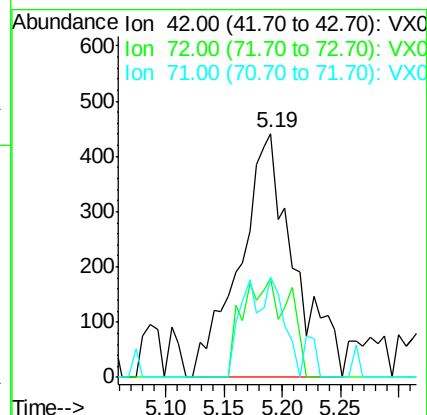
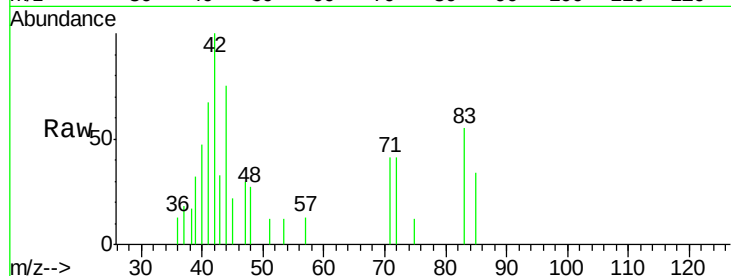
Tot Ion: 42 Resp: 1433

Ion Ratio Lower Upper

42 100

72 34.5 32.0 48.0

71 13.6 30.1 45.1#



#30

Chloroform

Concen: 0.46 ug/l

RT: 5.22 min Scan# 760

Delta R.T. 0.00 min

Lab File: VX003159.D

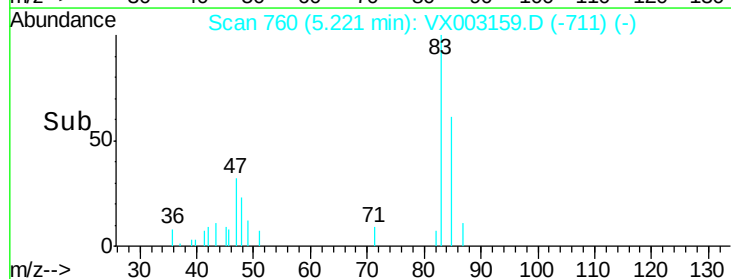
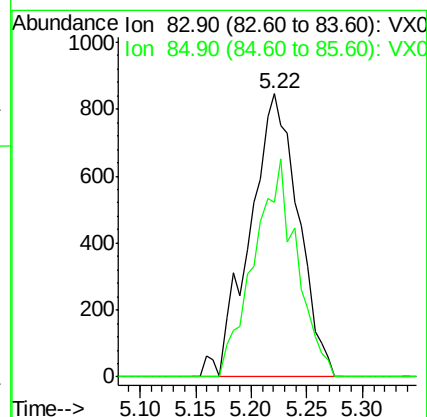
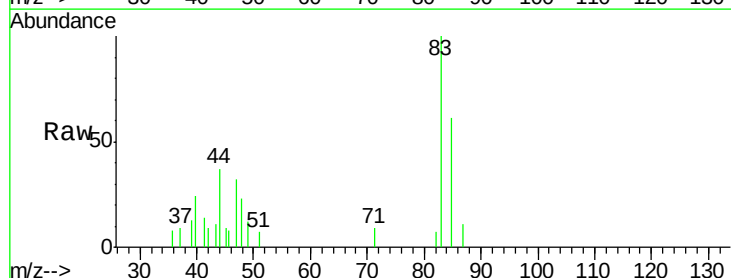
Acq: 03 Jul 2018 19:53

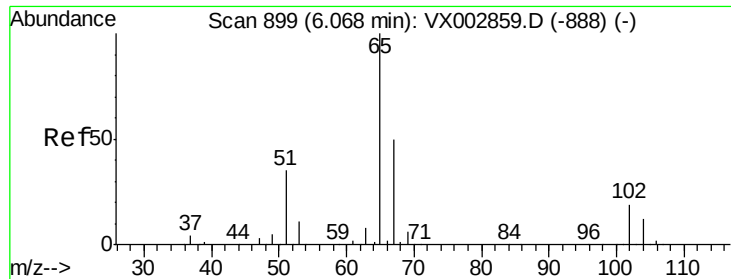
Tgt Ion: 83 Resp: 2579

Ion Ratio Lower Upper

83 100

85 61.5 50.4 75.6

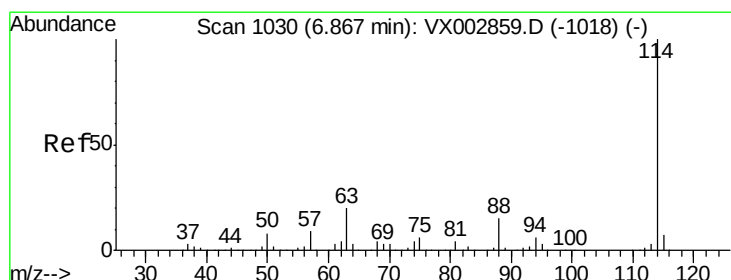
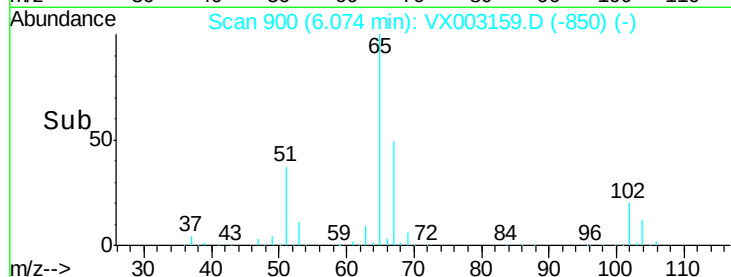
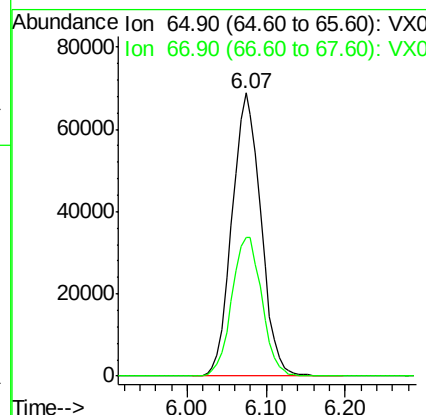
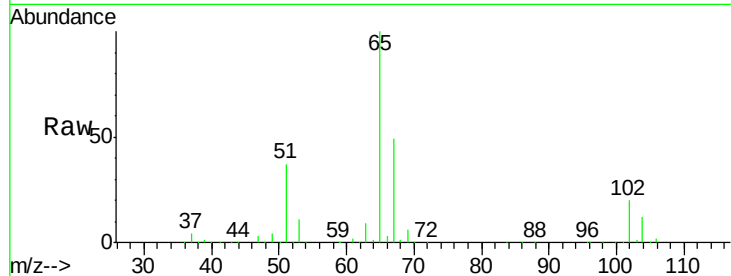




#33
 1,2-Dichloroethane-d4
 Concen: 46.77 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

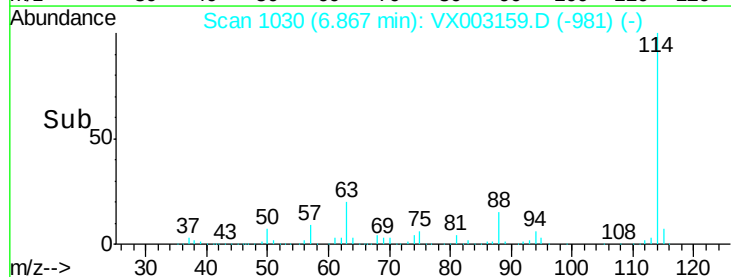
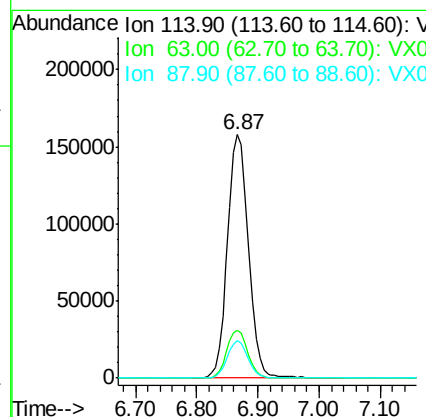
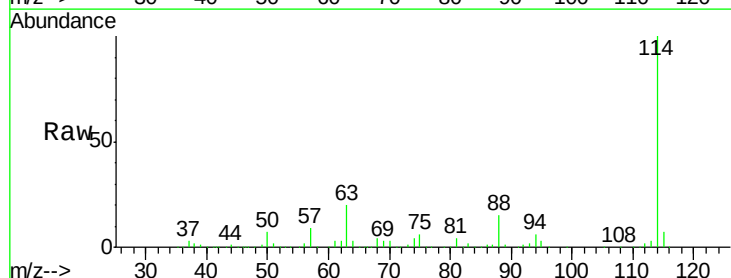
Instrument :
 MSVOA_X
 ClientSampleId :
 964

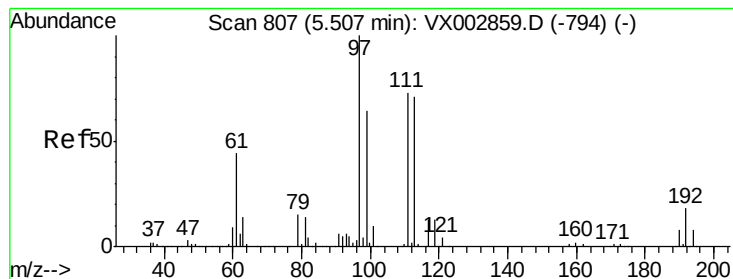
Tot Ion: 65 Resp: 175785
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

Tgt Ion: 114 Resp: 373720
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 41.4
 88 15.3 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.93 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

Instrument :

MSVOA_X

ClientSampleId :

964

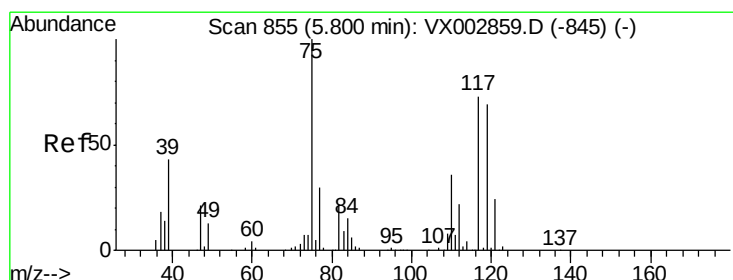
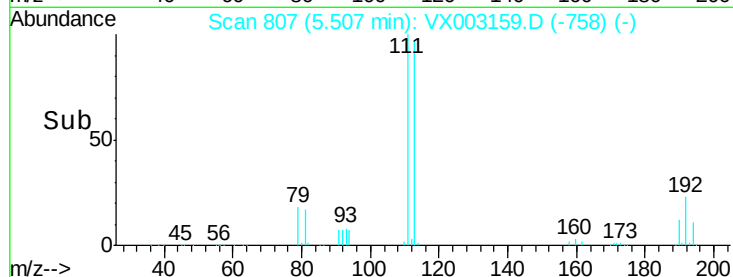
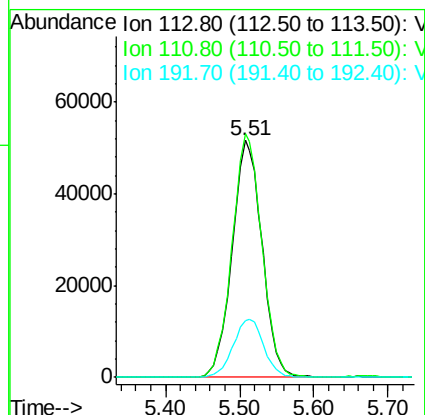
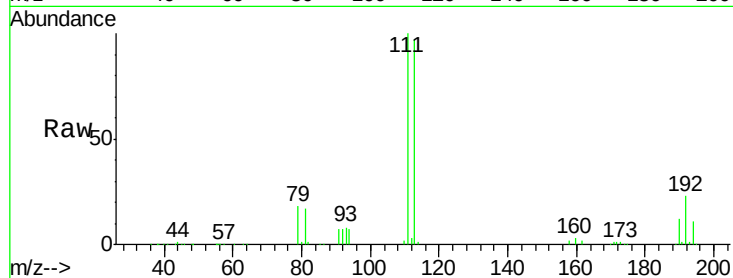
Tot Ion:113 Resp: 144823

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.0

192 24.9 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.24 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

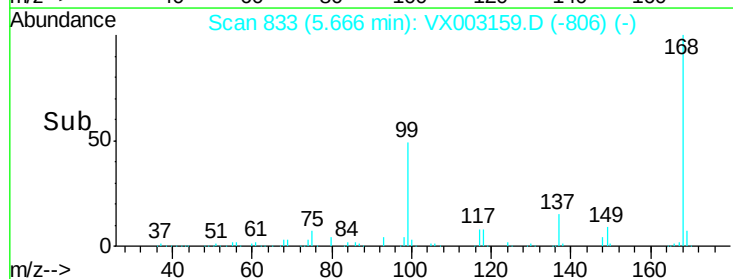
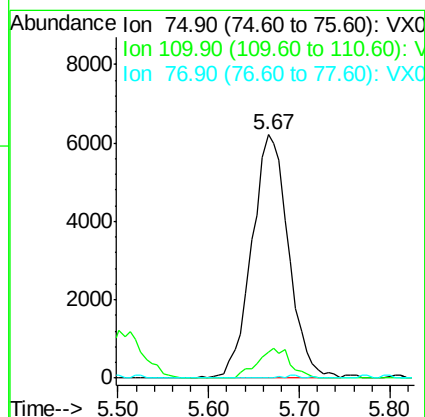
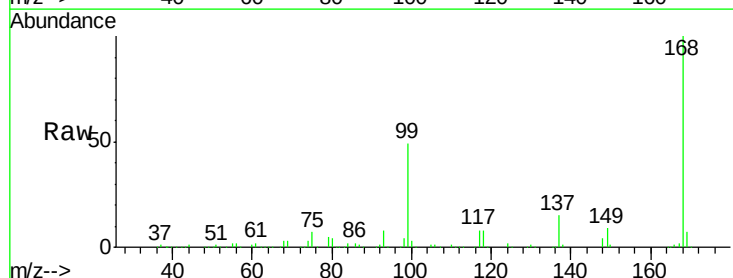
Tgt Ion: 75 Resp: 17357

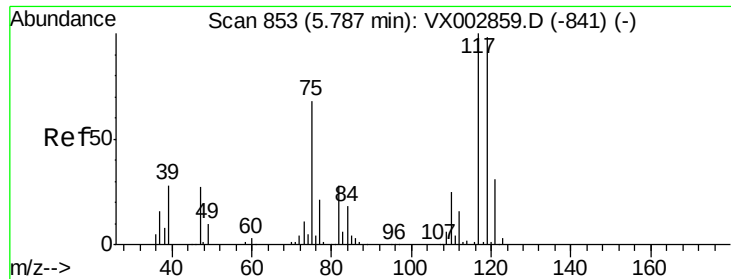
Ion Ratio Lower Upper

75 100

110 10.8 18.1 54.4#

77 0.0 24.3 36.5#

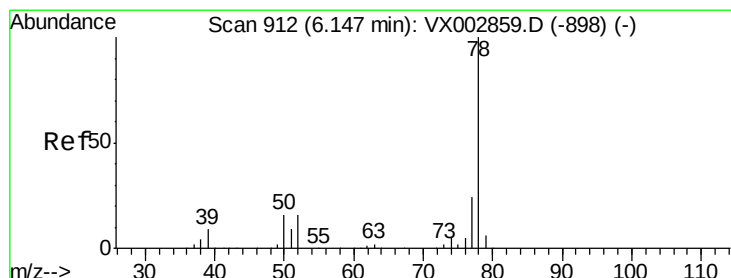
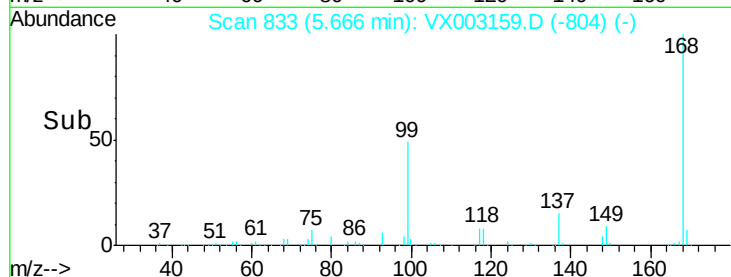
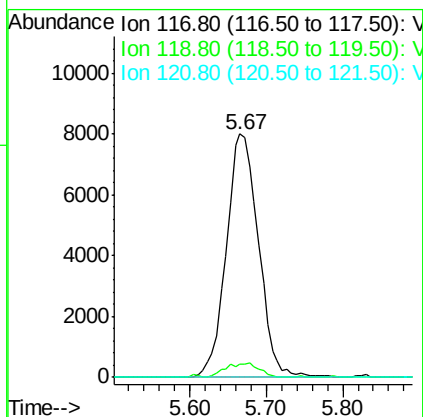
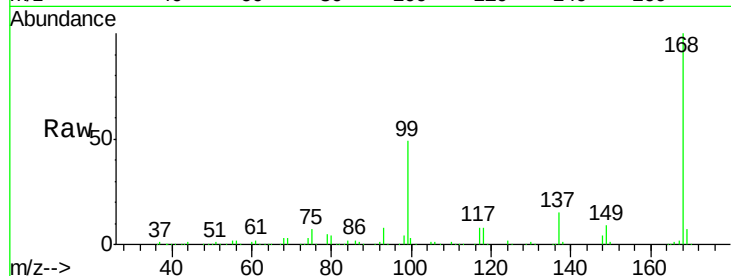




#38
 Carbon Tetrachloride
 Concen: 5.17 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

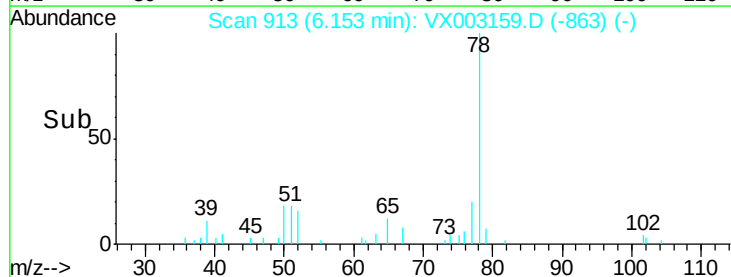
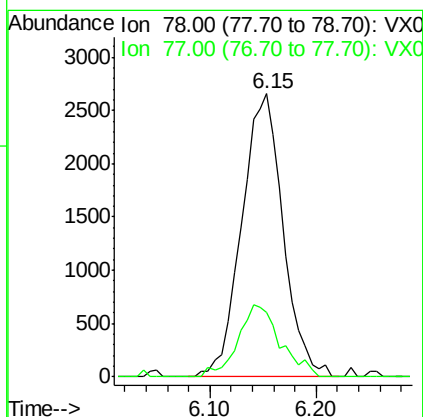
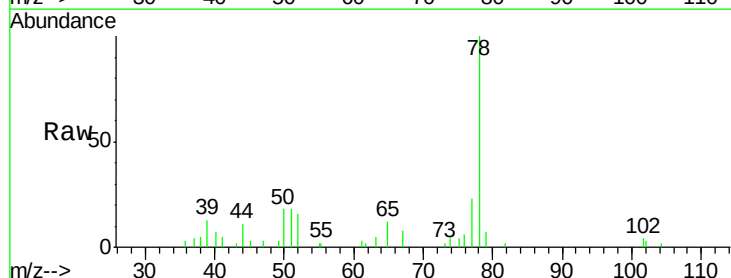
Instrument :
 MSVOA_X
 ClientSampled :
 964

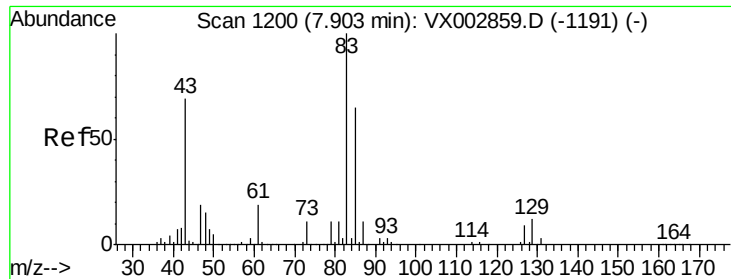
Tot Ion:117 Resp: 23268
 Ion Ratio Lower Upper
 117 100
 119 5.6 77.4 116.0#
 121 0.0 24.4 36.6#



#40
 Benzene
 Concen: 0.61 ug/l
 RT: 6.15 min Scan# 913
 Delta R.T. 0.01 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

Tgt Ion: 78 Resp: 7221
 Ion Ratio Lower Upper
 78 100
 77 22.6 19.1 28.7





#47

Bromodichloromethane

Concen: 0.24 ug/l

RT: 7.90 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

Instrument :

MSVOA_X

ClientSampleId :

964

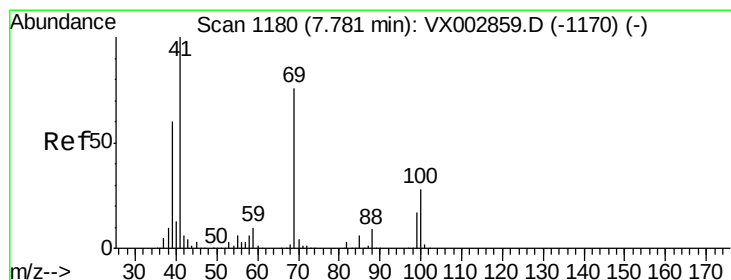
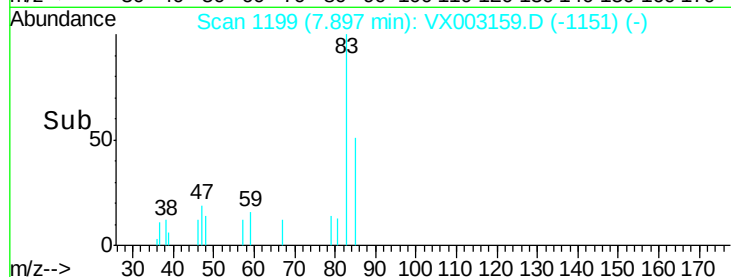
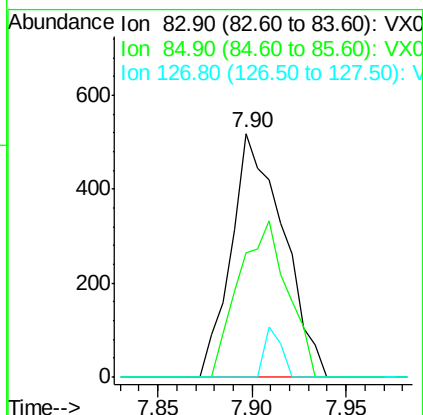
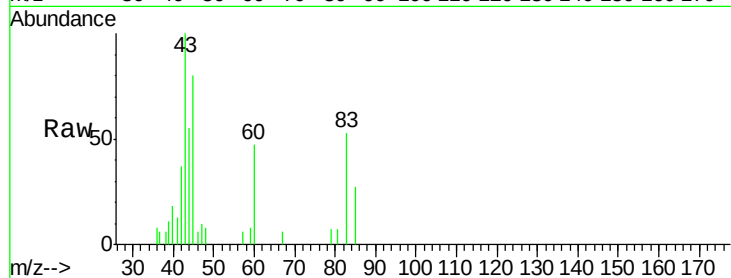
Tot Ion: 83 Resp: 990

Ion Ratio Lower Upper

83 100

85 51.2 50.3 75.5

127 0.0 7.0 10.4#



#48

Methyl methacrylate

Concen: 0.83 ug/l

RT: 7.72 min Scan# 1170

Delta R.T. -0.06 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

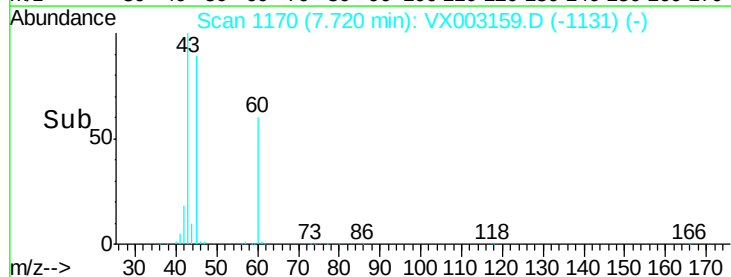
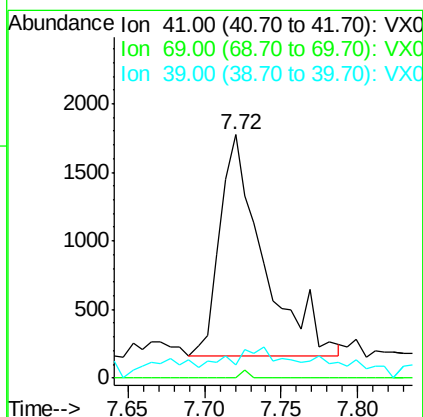
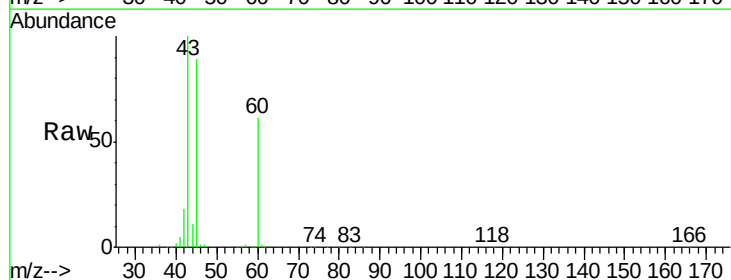
Tgt Ion: 41 Resp: 3160

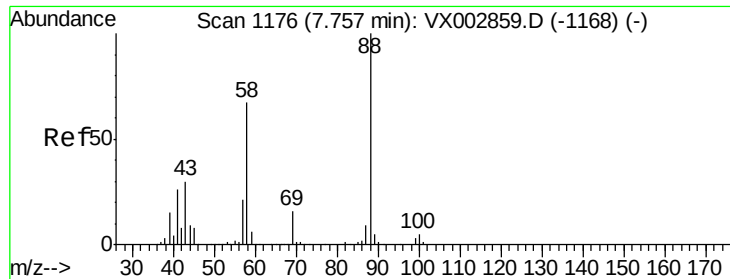
Ion Ratio Lower Upper

41 100

69 0.7 59.1 88.7#

39 8.9 48.9 73.3#





#49

1,4-Dioxane

Concen: 0.32 ug/l

RT: 7.73 min Scan# 1171

Delta R.T. -0.03 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

Instrument :

MSVOA_X

ClientSampleId :

964

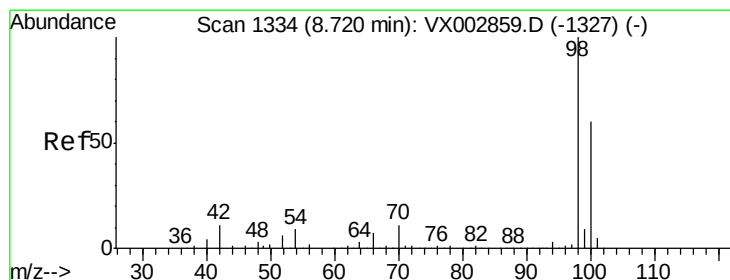
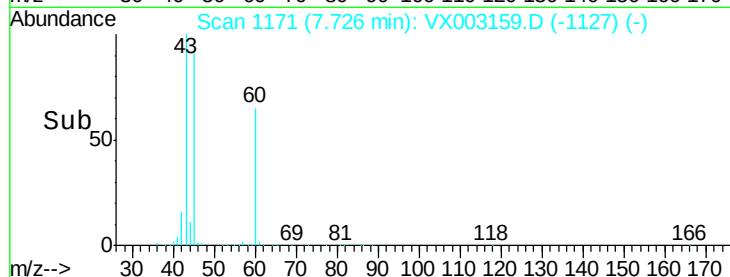
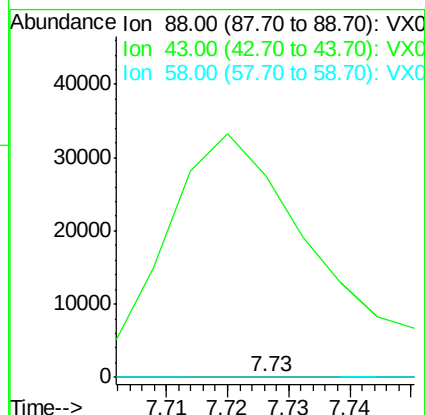
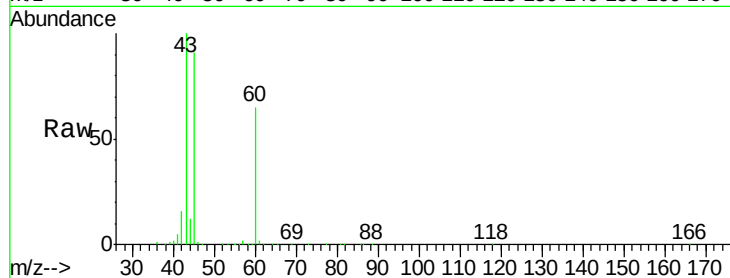
Tot Ion: 88 Resp: 24

Ion Ratio Lower Upper

88 100

43 265575.0 29.8 44.6#

58 420.8 57.1 85.7#



#50

Toluene-d8

Concen: 49.25 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003159.D

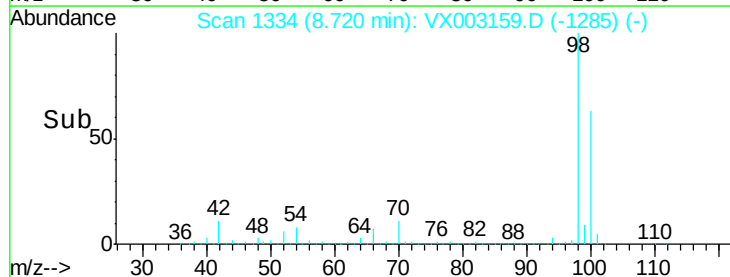
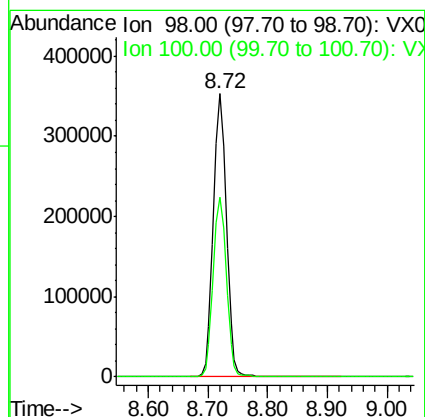
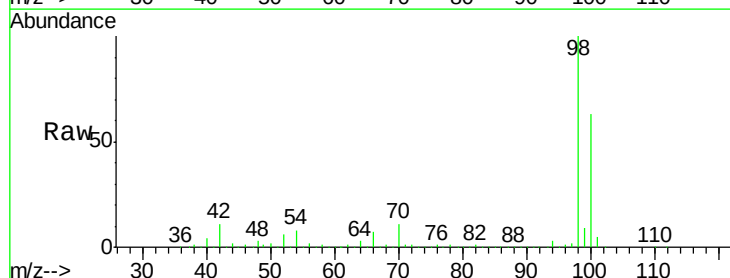
Acq: 03 Jul 2018 19:53

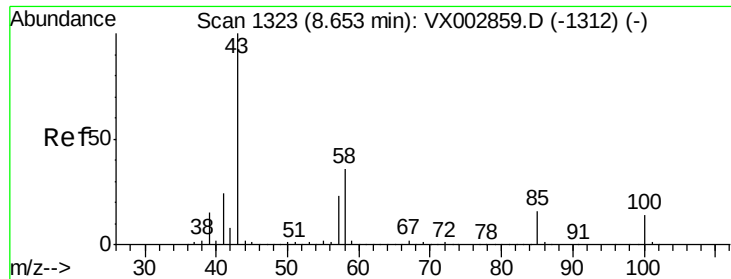
Tgt Ion: 98 Resp: 532226

Ion Ratio Lower Upper

98 100

100 64.0 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 0.30 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

Instrument :

MSVOA_X

ClientSampleId :

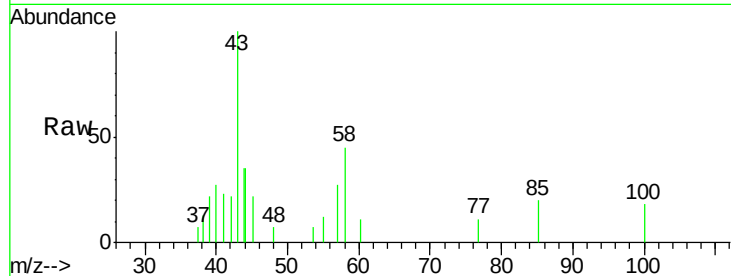
964

Tot Ion: 43 Resp: 1378

Ion Ratio Lower Upper

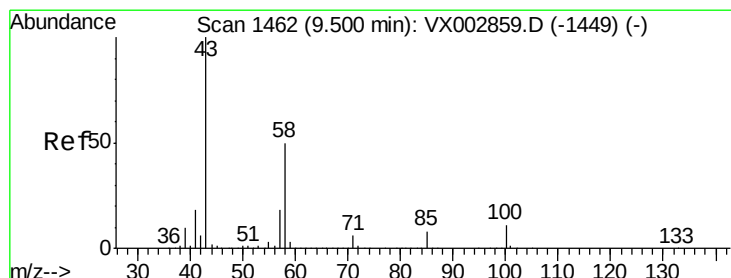
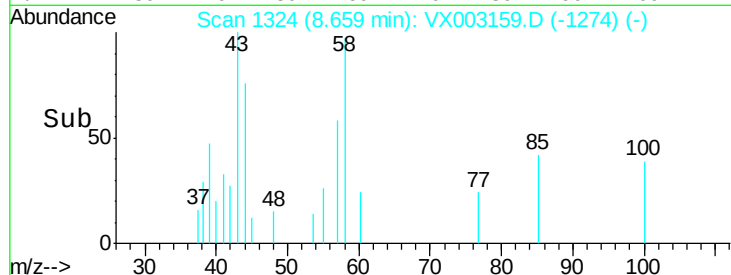
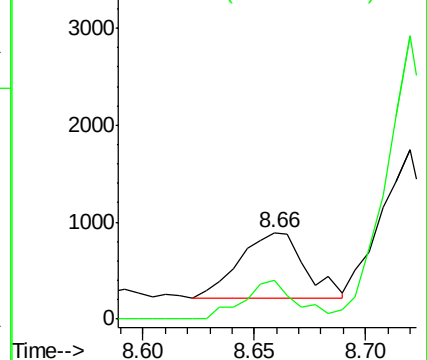
43 100

58 47.9 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#59

2-Hexanone

Concen: 0.86 ug/l

RT: 9.51 min Scan# 1463

Delta R.T. 0.01 min

Lab File: VX003159.D

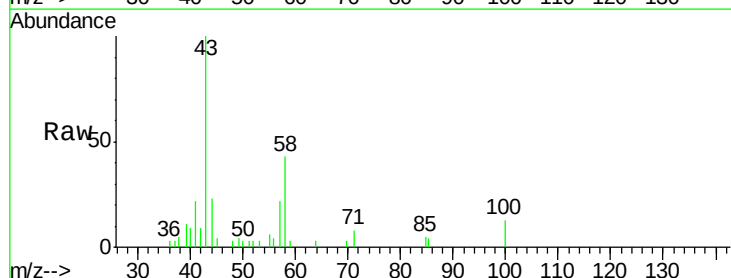
Acq: 03 Jul 2018 19:53

Tgt Ion: 43 Resp: 3038

Ion Ratio Lower Upper

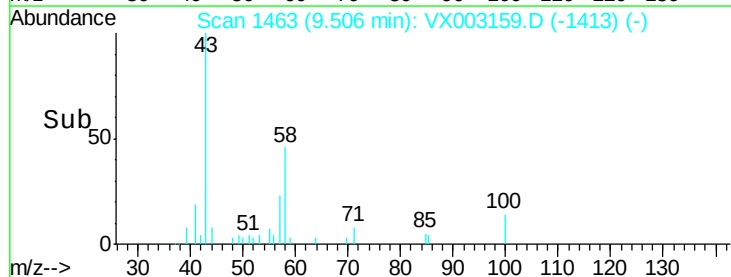
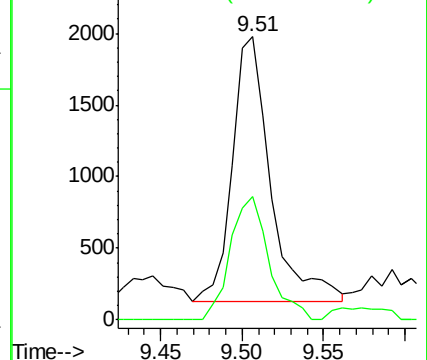
43 100

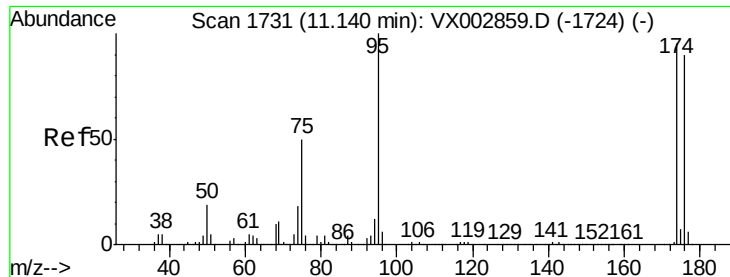
58 46.4 24.6 73.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

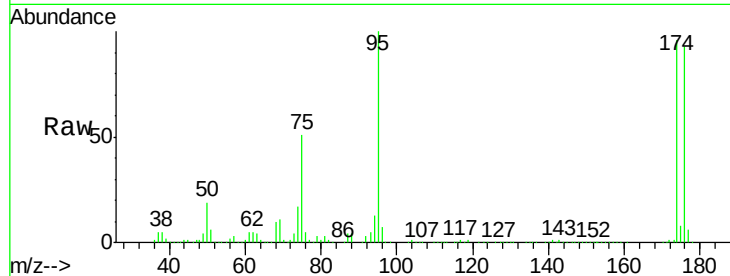




#62
4-Bromofluorobenzene
Concen: 44.50 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

Instrument :
MSVOA_X
ClientSampleId :
964

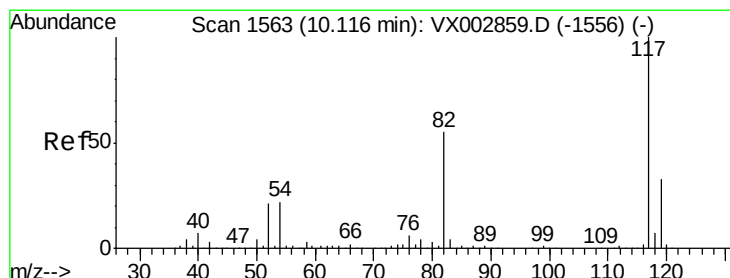
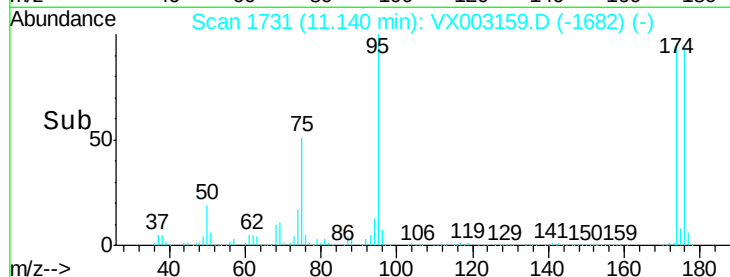
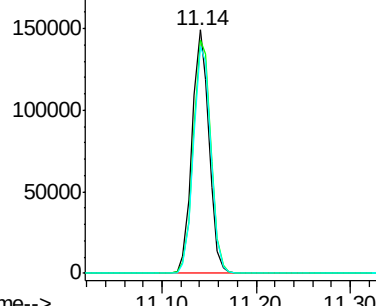
Tot Ion	95	Resp	185456
Ion Ratio	Lower	Upper	
95	100		
174	99.4	0.0	187.4
176	95.6	0.0	181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002859.D (-1724) (-)

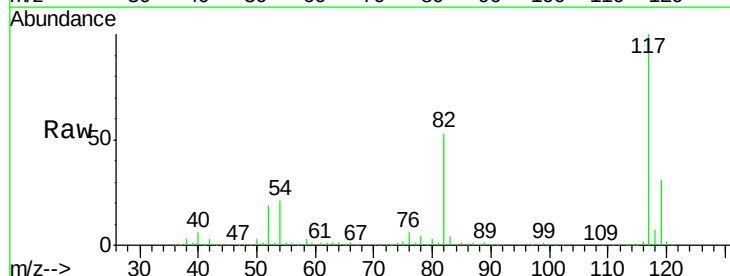
Ion 173.80 (173.50 to 174.50): VX002859.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002859.D (-1724) (-)



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

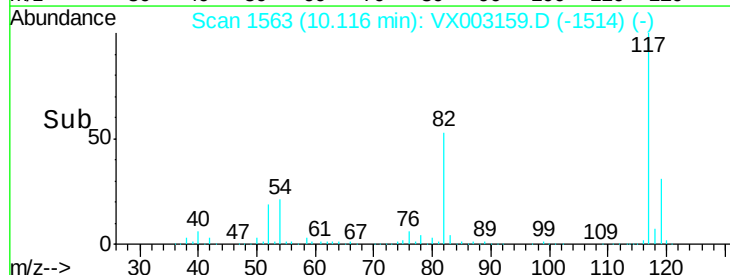
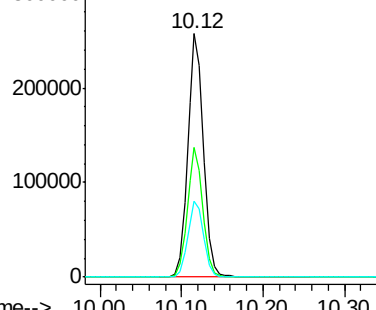
Tgt Ion	117	Resp	349028
Ion Ratio	Lower	Upper	
117	100		
82	53.3	45.0	67.4
119	31.1	25.8	38.6

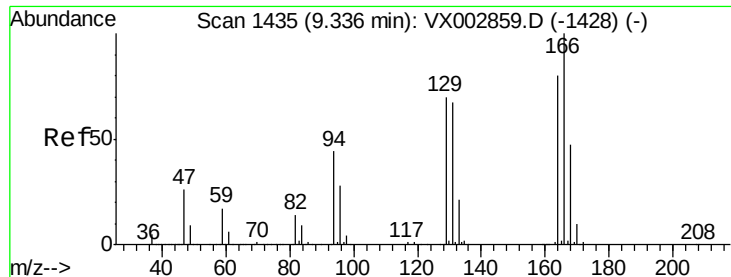


Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX002859.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX002859.D (-1556) (-)

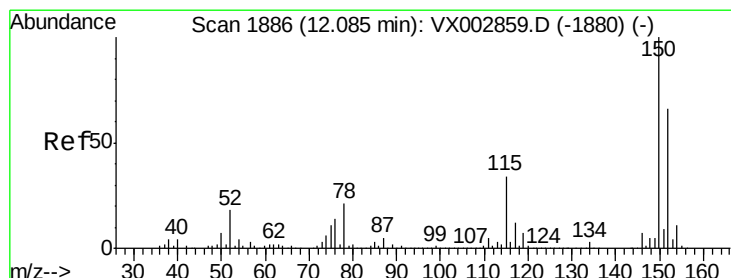
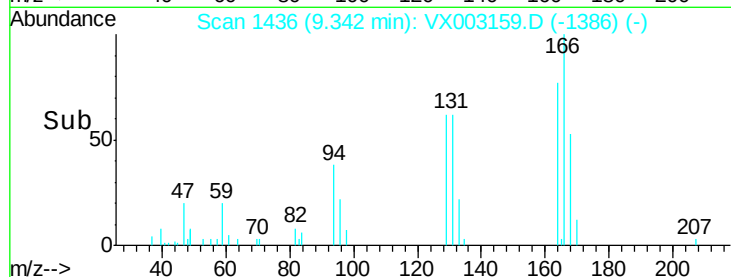
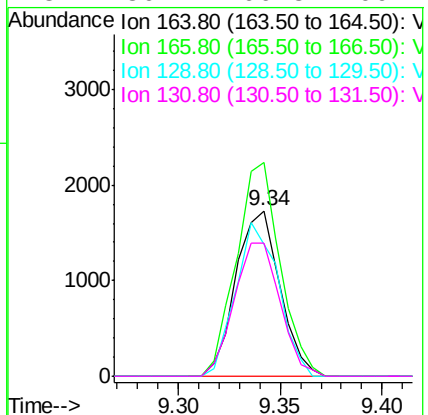
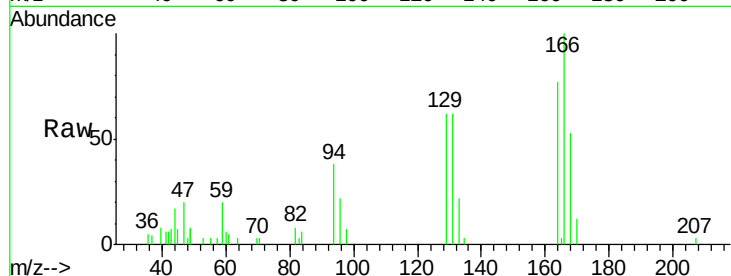




#64
Tetrachloroethene
Concen: 0.67 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. 0.01 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

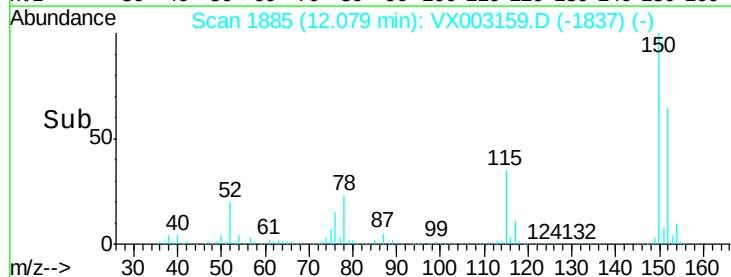
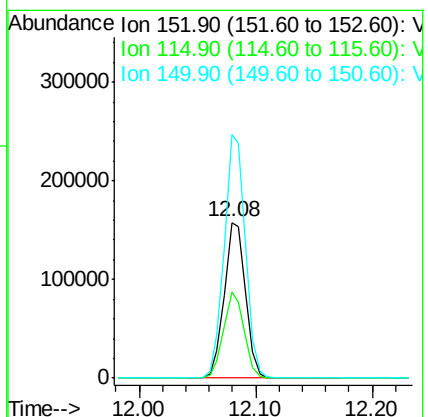
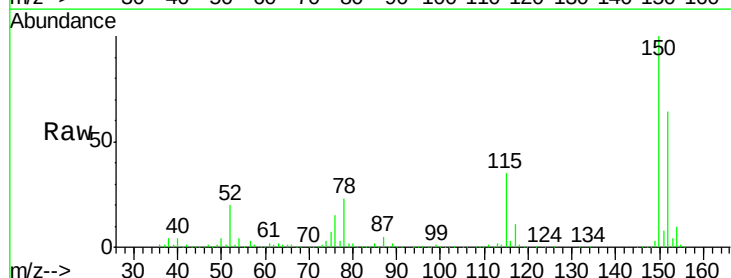
Instrument :
MSVOA_X
ClientSampleId :
964

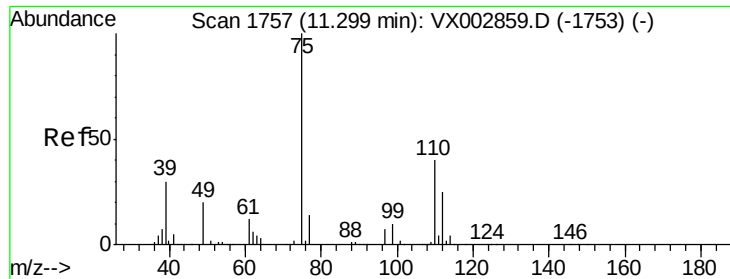
Tot Ion:164 Resp: 2594
Ion Ratio Lower Upper
164 100
166 129.1 102.9 154.3
129 79.5 68.6 102.8
131 80.4 66.8 100.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

Tgt Ion:152 Resp: 198932
Ion Ratio Lower Upper
152 100
115 53.6 40.1 120.2
150 155.7 0.0 347.2

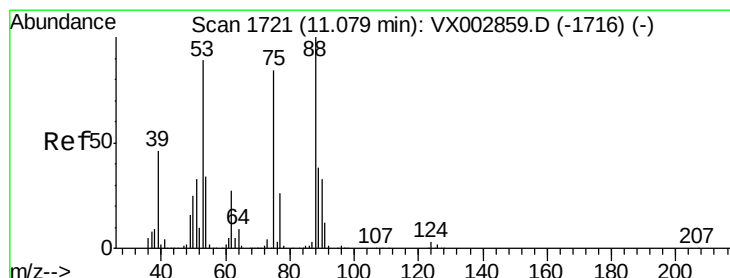
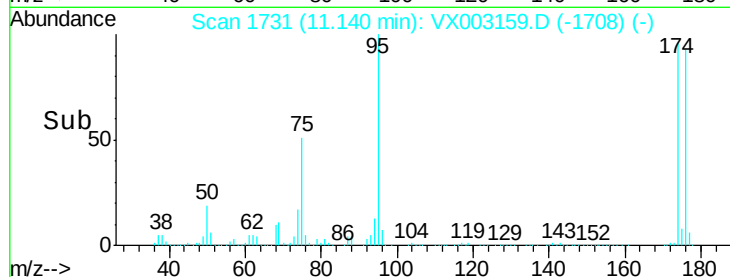
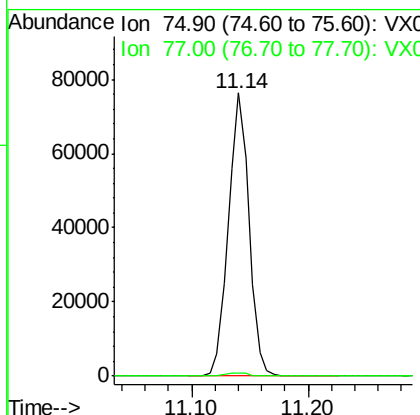
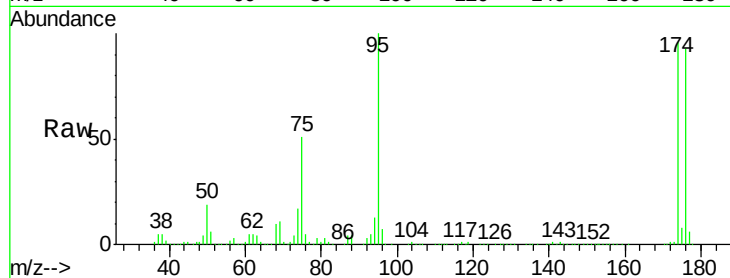




#76
 1,2,3-Trichloropropane
 Concen: 26.11 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

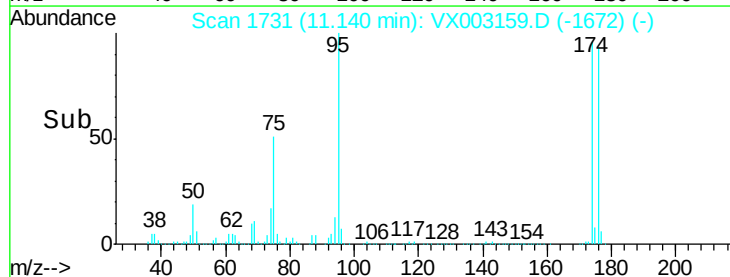
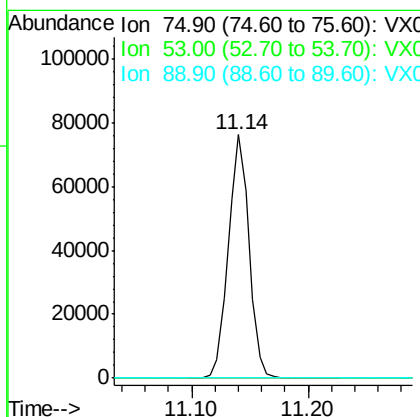
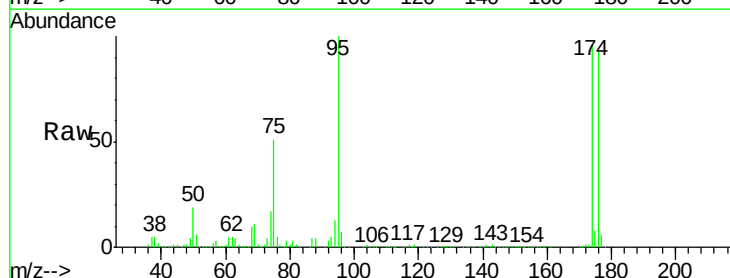
Instrument :
 MSVOA_X
 ClientSampled :
 964

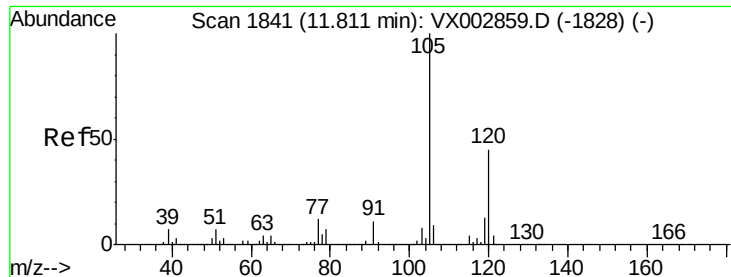
Tot Ion: 75 Resp: 94097
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 74.03 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

Tgt Ion: 75 Resp: 94097
 Ion Ratio Lower Upper
 75 100
 53 0.3 86.8 130.2#
 89 0.0 38.2 57.2#

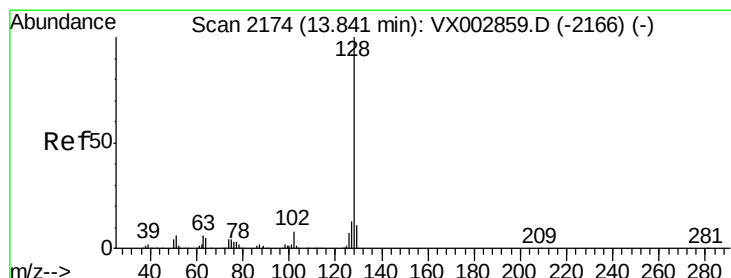
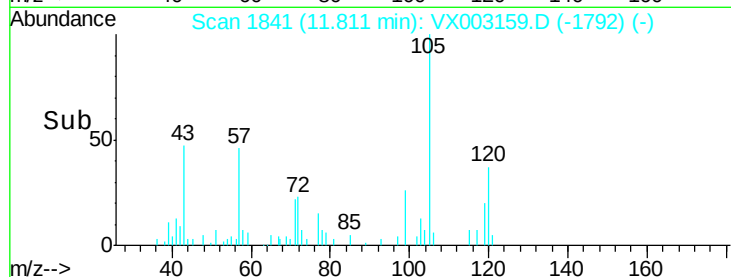
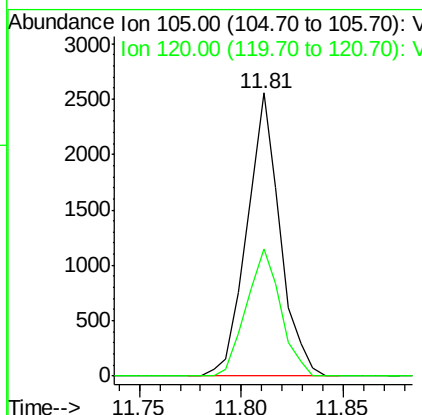
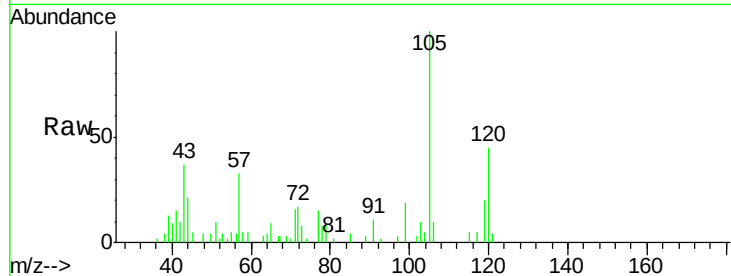




#84
 1,2,4-Trimethylbenzene
 Concen: 0.25 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

Instrument :
 MSVOA_X
 ClientSampled :
 964

Tot Ion:105 Resp: 2869
 Ion Ratio Lower Upper
 105 100
 120 46.7 22.3 66.8



#95
 Naphthalene
 Concen: 7.25 ug/l
 RT: 13.83 min Scan# 2173
 Delta R.T. -0.01 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

Tgt Ion:128 Resp: 98700
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.4 15.6
 129 11.1 8.6 13.0

