

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX060218\
 Data File : VX002240.D
 Acq On : 02 Jun 2018 15:37
 Operator : JC/MD
 Sample : J3151-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 04 05:06:57 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	237837	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	352558	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	312604	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	165171	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	227216	53.45	ug/l	0.00
Spiked Amount						
			Recovery	=	106.90%	
35) Dibromofluoromethane	5.51	113	166995	47.37	ug/l	0.00
Spiked Amount						
			Recovery	=	94.74%	
50) Toluene-d8	8.72	98	659646	51.68	ug/l	0.00
Spiked Amount						
			Recovery	=	103.36%	
62) 4-Bromofluorobenzene	11.14	95	225673	45.19	ug/l	0.00
Spiked Amount						
			Recovery	=	90.38%	

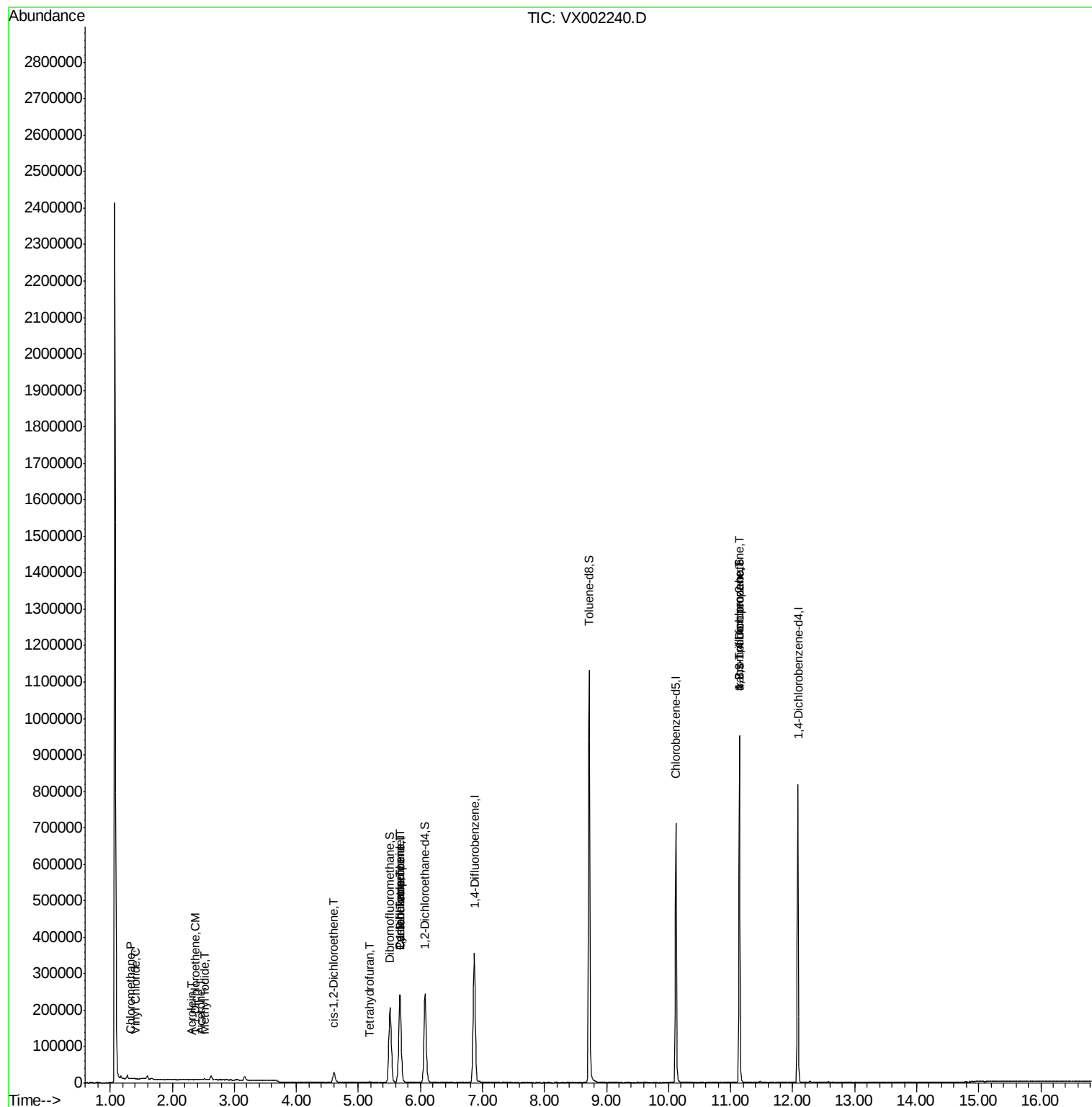
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	156	Below Cal		79
3) Chloromethane	1.32	50	939	0.26	ug/l	94
4) Vinyl Chloride	1.40	62	751	0.21	ug/l #	37
10) Methyl Iodide	2.52	142	2614	0.65	ug/l #	85
12) 1,1-Dichloroethene	2.37	96	707	0.26	ug/l #	61
13) Acrolein	2.31	56	238	0.66	ug/l	87
16) Acetone	2.45	43	1521	0.93	ug/l	93
18) Methyl Acetate	2.78	43	248	Below Cal		93
20) Methylene Chloride	2.87	84	415	Below Cal	#	69
21) trans-1,2-Dichloroethene	3.17	96	3703	Below Cal		94
27) cis-1,2-Dichloroethene	4.60	96	14644	4.05	ug/l	92
28) Bromochloromethane	5.01	49	22	Below Cal	#	14
29) Tetrahydrofuran	5.18	42	2639	1.35	ug/l	93
31) Cyclohexane	5.67	56	5184	0.88	ug/l #	46
36) 1,1-Dichloropropene	5.67	75	17938	3.66	ug/l #	52
38) Carbon Tetrachloride	5.67	117	22483	3.93	ug/l #	15
41) Methacrylonitrile	5.09	41	68	Below Cal	#	1
74) N-amyl acetate	6.46	43	184	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.30	83	26	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	120492	30.37	ug/l #	33
79) 2-Chlorotoluene	11.43	91	207	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	11.14	75	120492	72.99	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002240.D

Acq: 02 Jun 2018 15:37

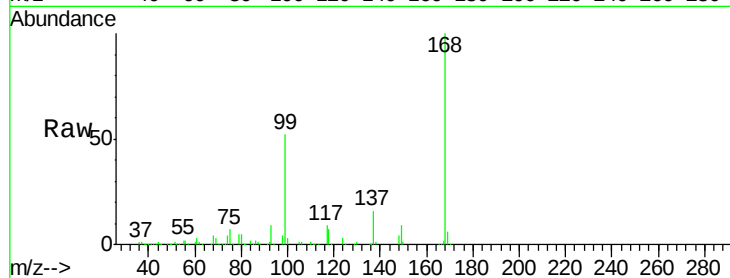
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 237837

Ion Ratio Lower Upper

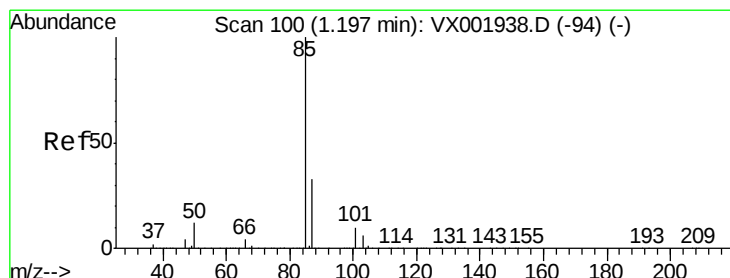
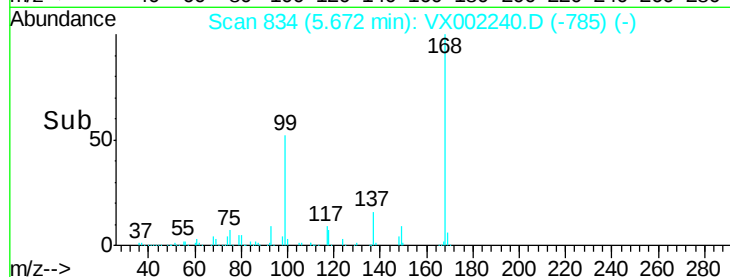
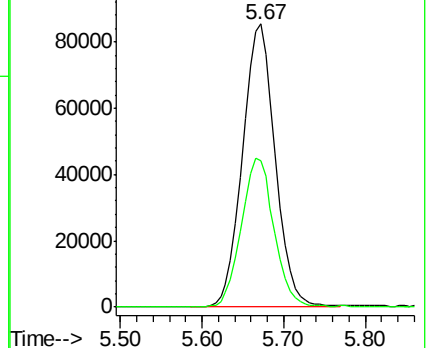
168 100

99 51.6 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002240.D

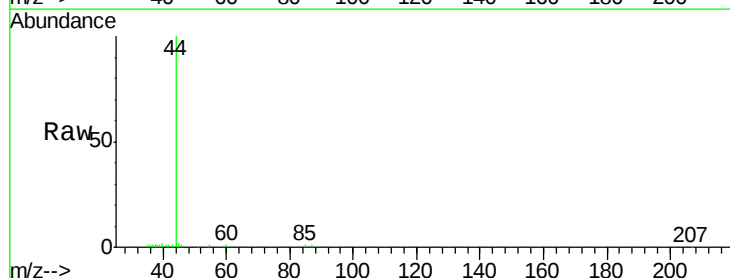
Acq: 02 Jun 2018 15:37

Tgt Ion: 85 Resp: 156

Ion Ratio Lower Upper

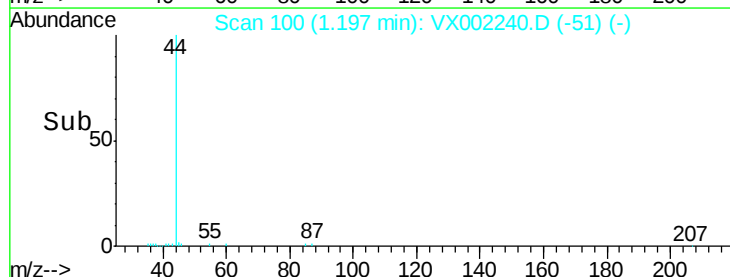
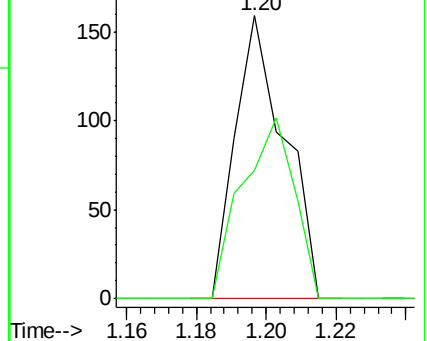
85 100

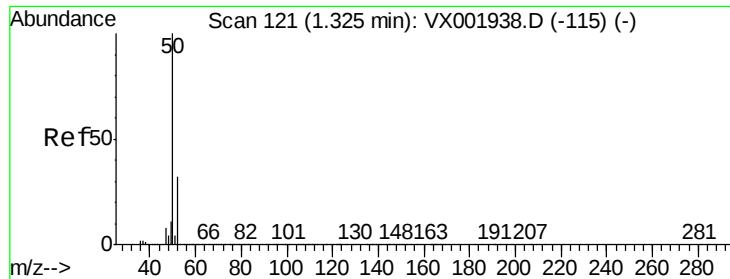
87 45.3 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.26 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX002240.D

Acq: 02 Jun 2018 15:37

Instrument :

MSVOA_X

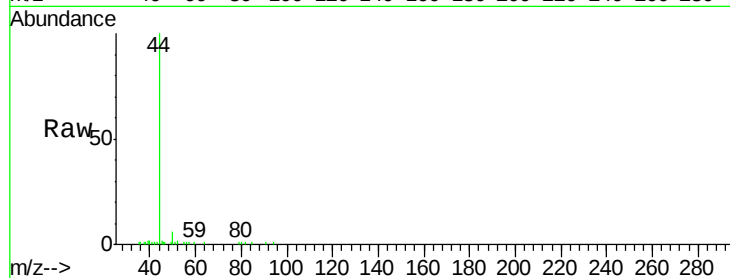
ClientSampled :

Tot Ion: 50 Resp: 939

Ion Ratio Lower Upper

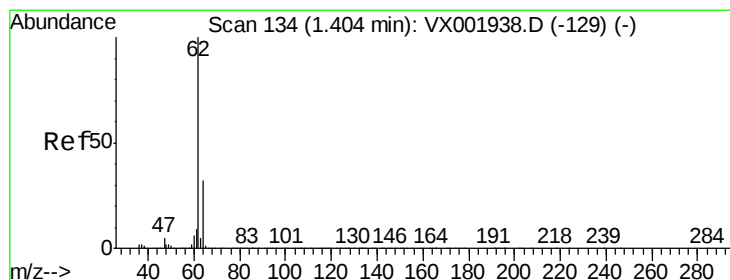
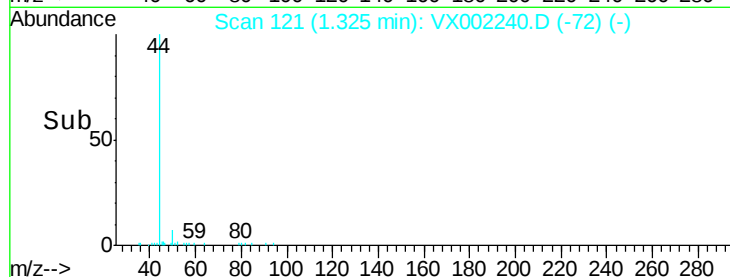
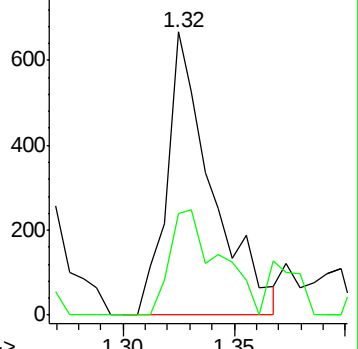
50 100

52 35.7 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 0.21 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX002240.D

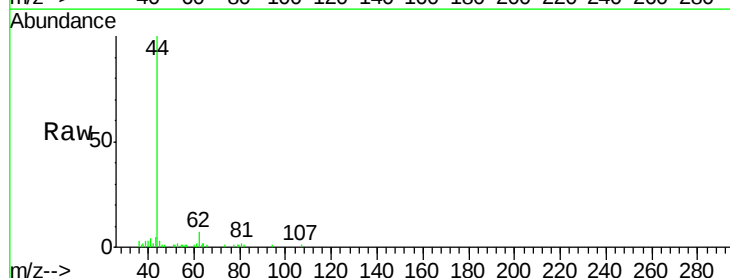
Acq: 02 Jun 2018 15:37

Tgt Ion: 62 Resp: 751

Ion Ratio Lower Upper

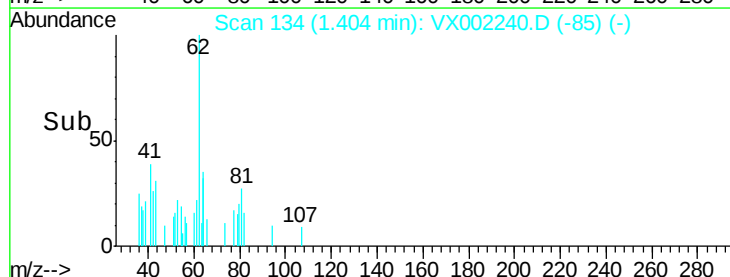
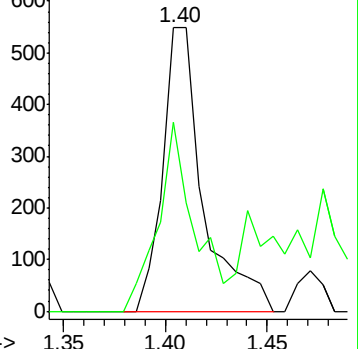
62 100

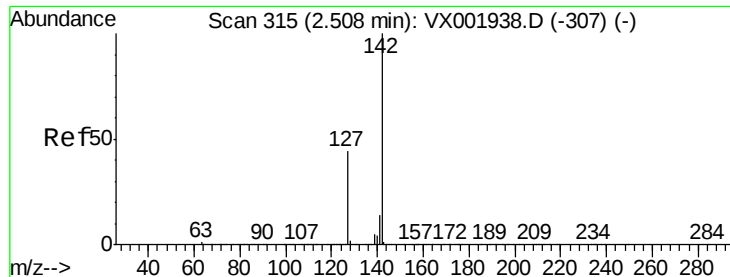
64 66.8 25.4 38.0#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

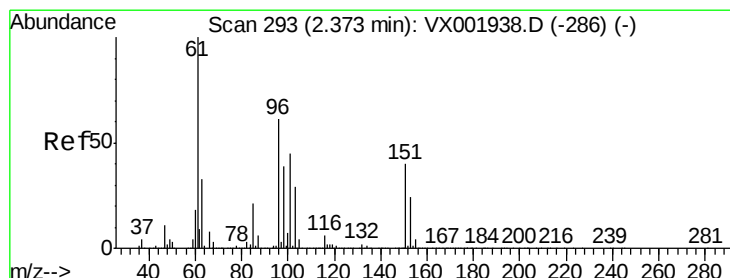
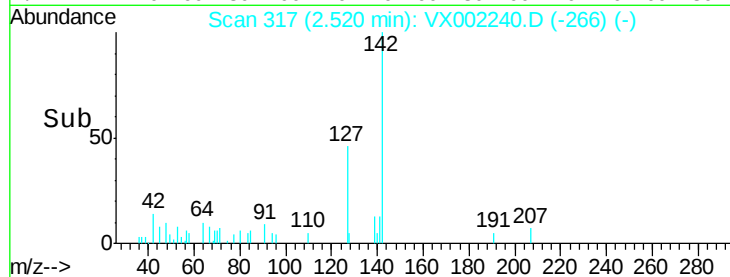
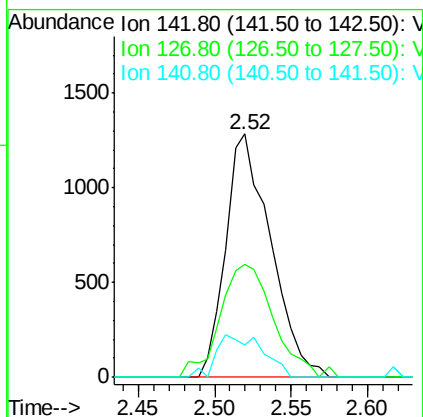
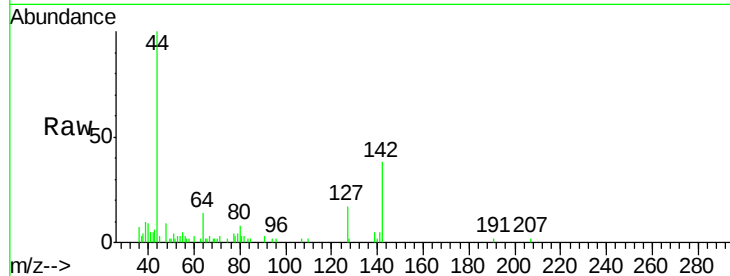




#10
Methvl Iodide
Concen: 0.65 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002240.D
Acq: 02 Jun 2018 15:37

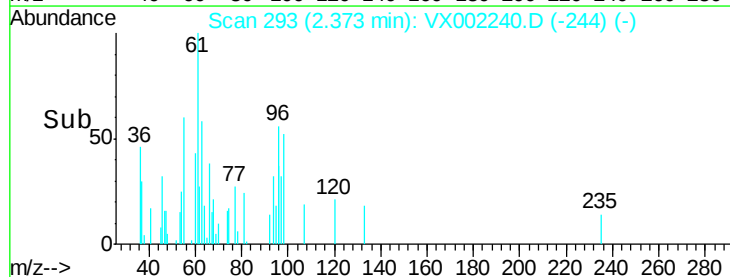
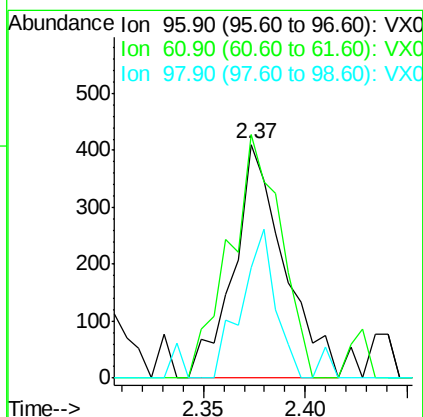
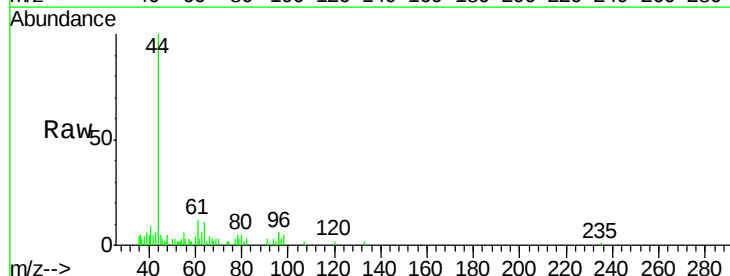
Instrument :
MSVOA_X
ClientSampleId :

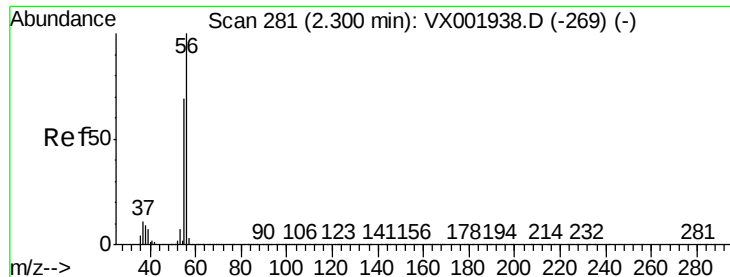
Tot Ion:142 Resp: 2614
Ion Ratio Lower Upper
142 100
127 55.5 35.5 53.3#
141 18.0 11.3 16.9#



#12
1,1-Dichloroethene
Concen: 0.26 ug/l
RT: 2.37 min Scan# 293
Delta R.T. -0.00 min
Lab File: VX002240.D
Acq: 02 Jun 2018 15:37

Tgt Ion: 96 Resp: 707
Ion Ratio Lower Upper
96 100
61 104.1 131.7 197.5#
98 47.2 51.6 77.4#





#13

Acrolein

Concen: 0.66 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX002240.D

Acq: 02 Jun 2018 15:37

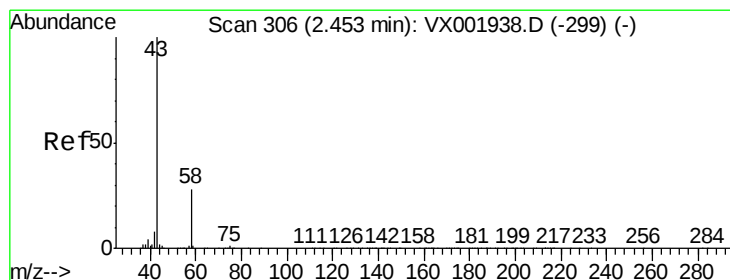
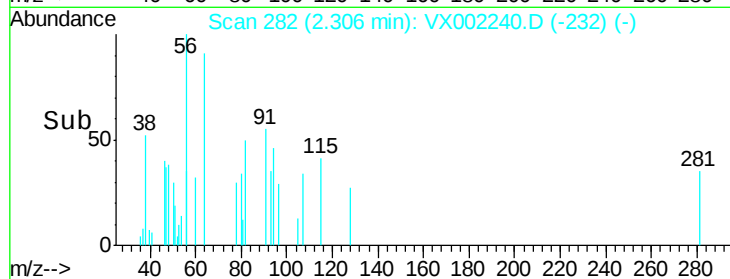
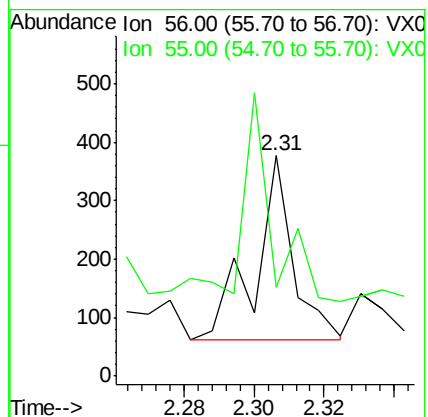
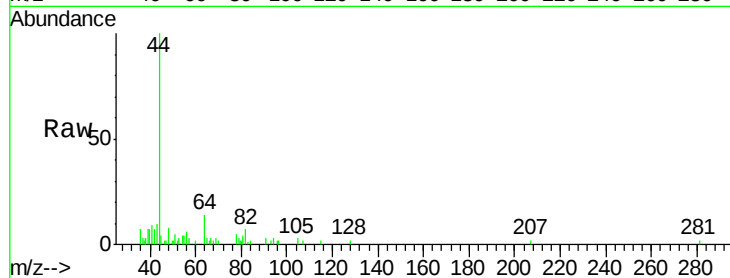
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 238

Ion Ratio Lower Upper

56 100

55 81.9 56.8 85.2



#16

Acetone

Concen: 0.93 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX002240.D

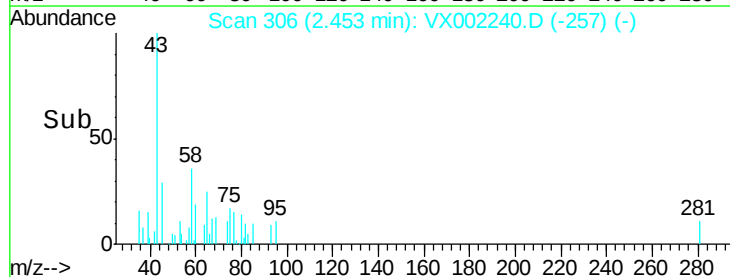
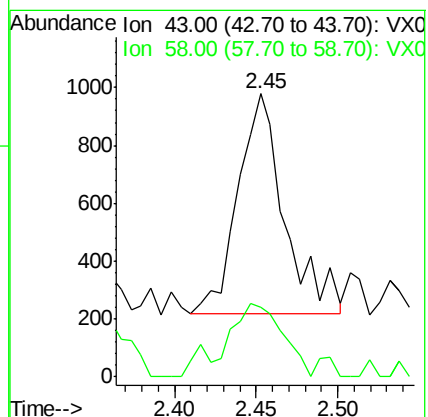
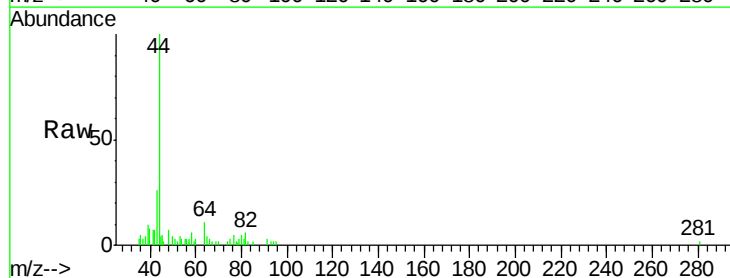
Acq: 02 Jun 2018 15:37

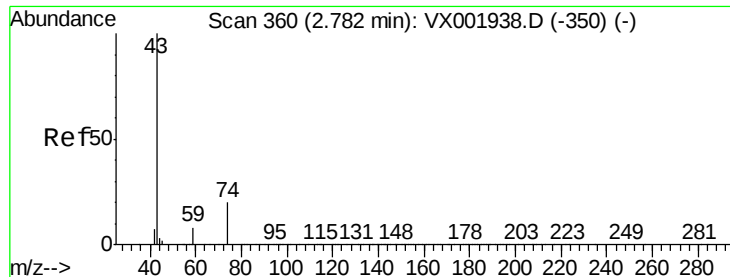
Tgt Ion: 43 Resp: 1521

Ion Ratio Lower Upper

43 100

58 31.6 22.3 33.5

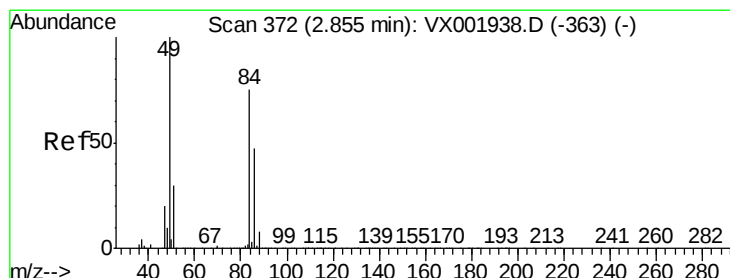
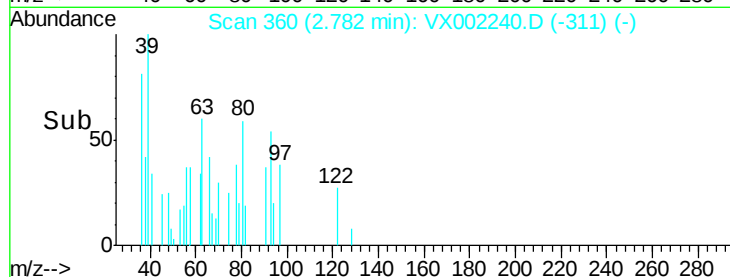
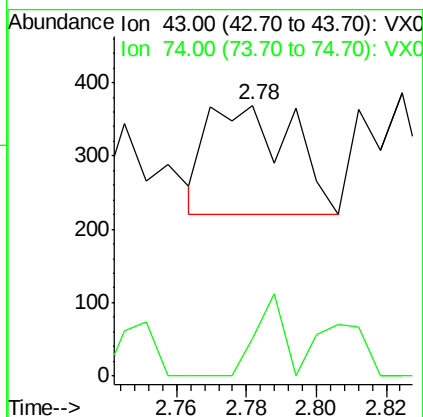
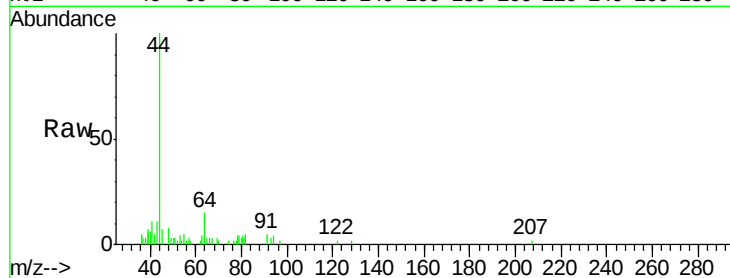




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002240.D
Acq: 02 Jun 2018 15:37

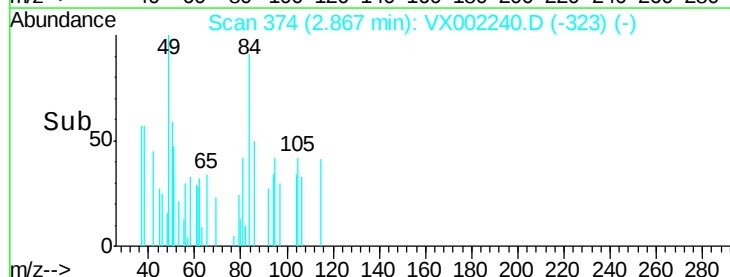
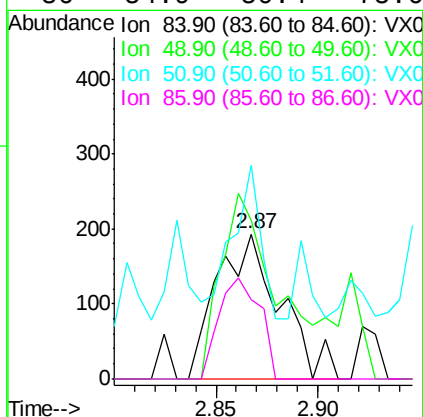
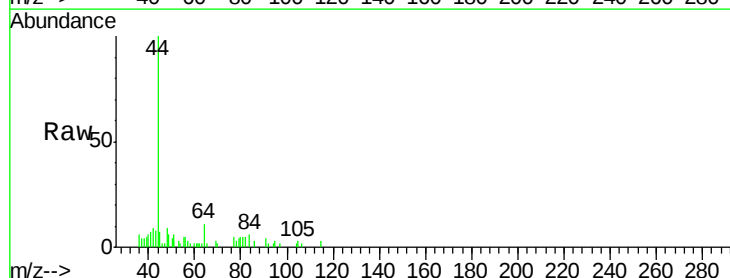
Instrument :
MSVOA_X
ClientSampleId :

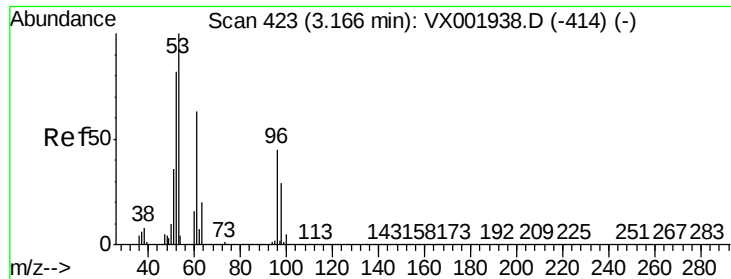
Tot Ion: 43 Resp: 248
Ion Ratio Lower Upper
43 100
74 24.2 16.8 25.2



#20
Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX002240.D
Acq: 02 Jun 2018 15:37

Tgt Ion: 84 Resp: 415
Ion Ratio Lower Upper
84 100
49 109.3 107.2 160.8
51 99.0 32.4 48.6#
86 54.9 50.4 75.6





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.17 min Scan# 424

Delta R.T. 0.01 min

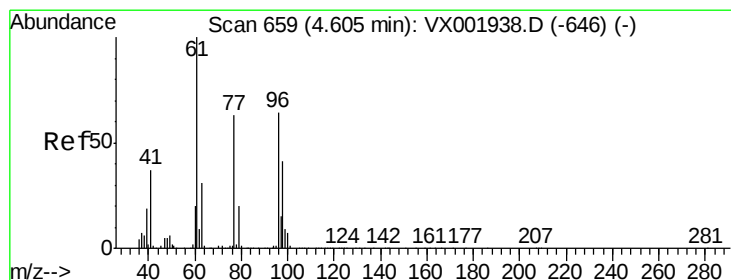
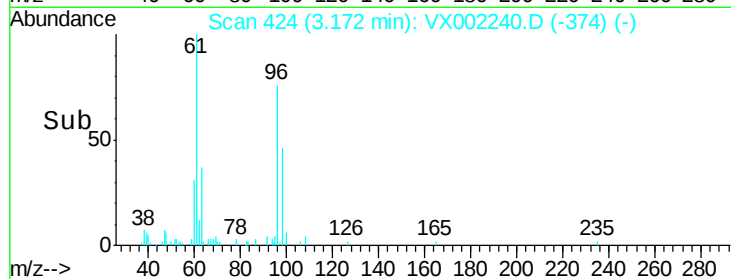
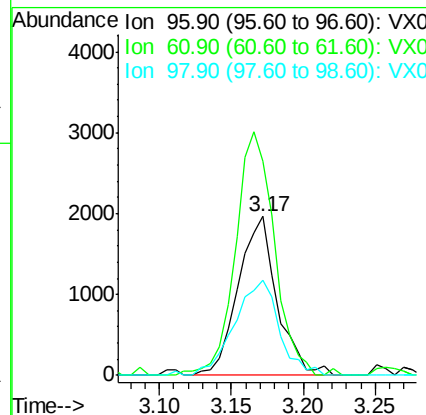
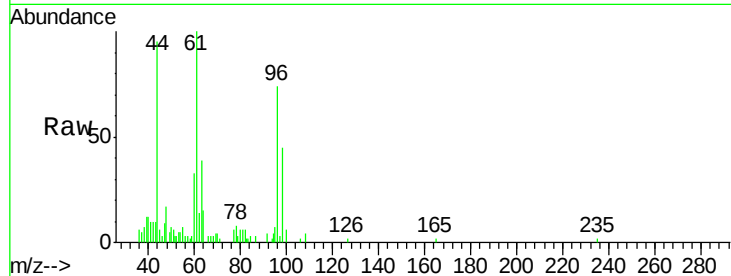
Lab File: VX002240.D

Acq: 02 Jun 2018 15:37

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 96 Resp: 3703

Ion	Ratio	Lower	Upper
96	100		
61	134.8	113.3	169.9
98	60.1	51.7	77.5



#27

cis-1,2-Dichloroethene

Concen: 4.05 ug/l

RT: 4.60 min Scan# 658

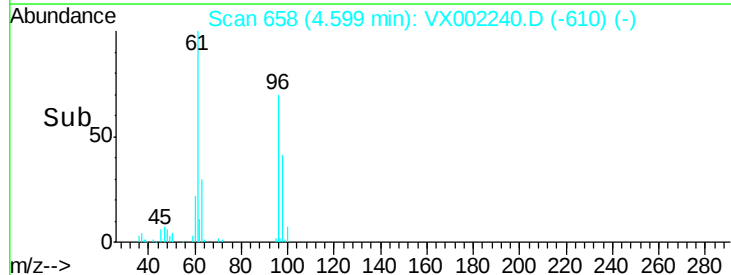
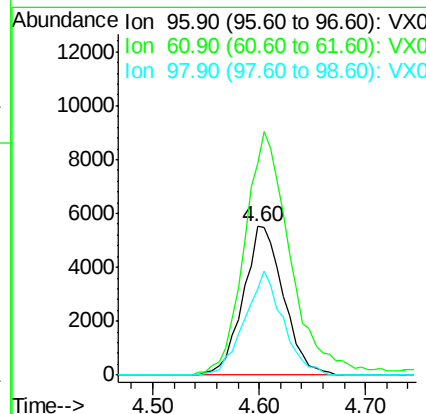
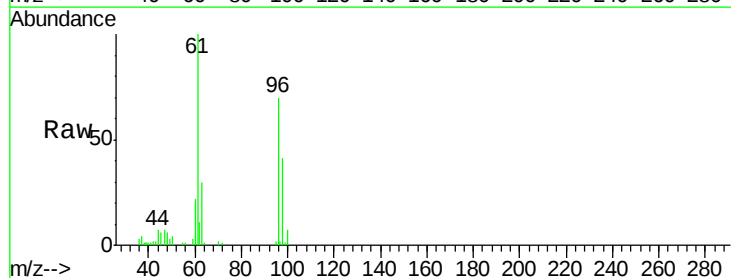
Delta R.T. -0.01 min

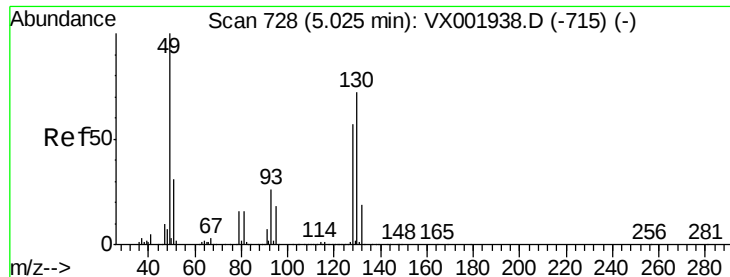
Lab File: VX002240.D

Acq: 02 Jun 2018 15:37

Tgt Ion: 96 Resp: 14644

Ion	Ratio	Lower	Upper
96	100		
61	187.9	0.0	348.4
98	66.5	0.0	128.6





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 726

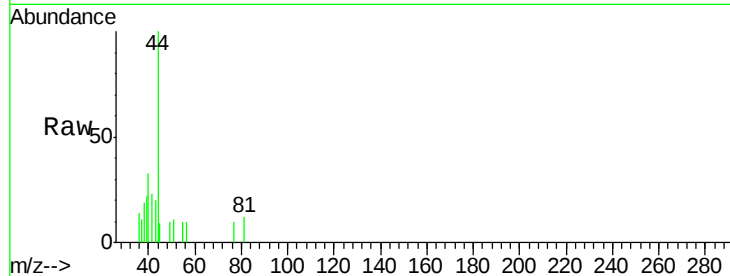
Delta R.T. -0.01 min

Lab File: VX002240.D

Acq: 02 Jun 2018 15:37

Instrument :
MSVOA_X
ClientSampleId :

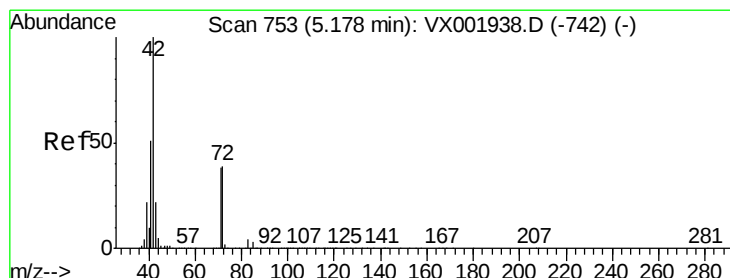
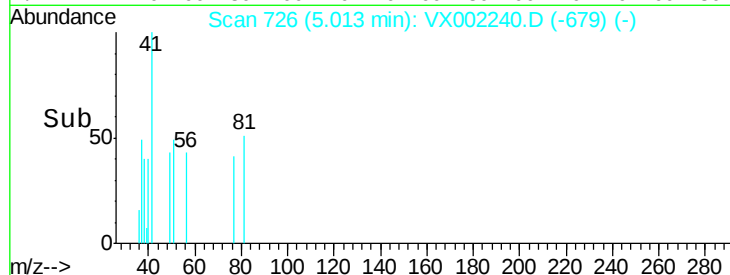
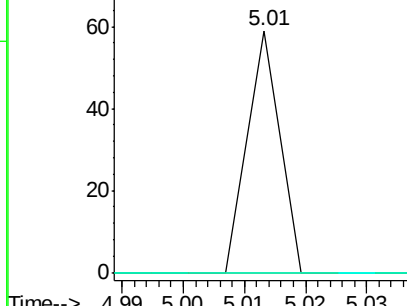
Tot Ion:	49	Resp:	22
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	59.4	89.2#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 1.35 ug/l

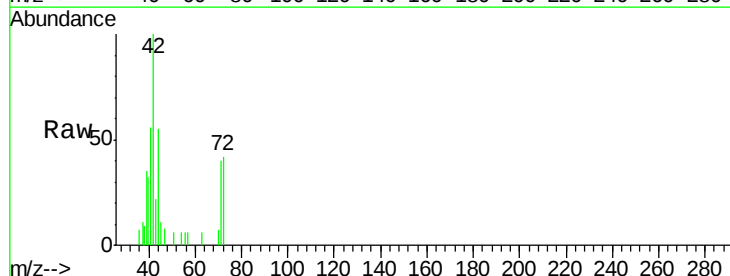
RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX002240.D

Acq: 02 Jun 2018 15:37

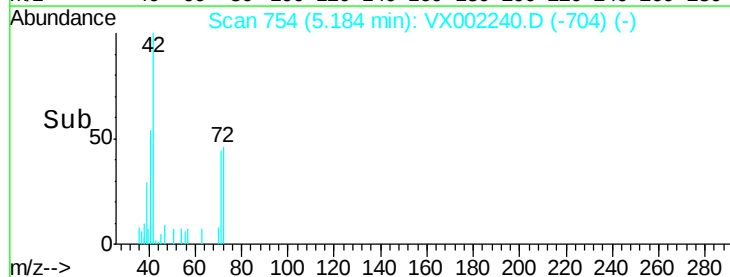
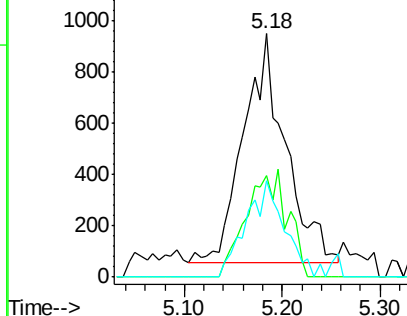
Tgt Ion:	42	Resp:	2639
Ion	Ratio	Lower	Upper
42	100		
72	45.9	31.4	47.0
71	38.5	29.5	44.3

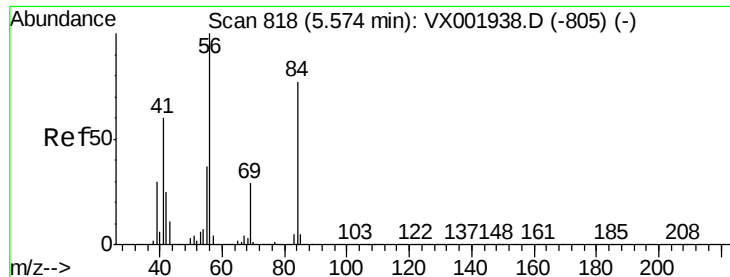


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

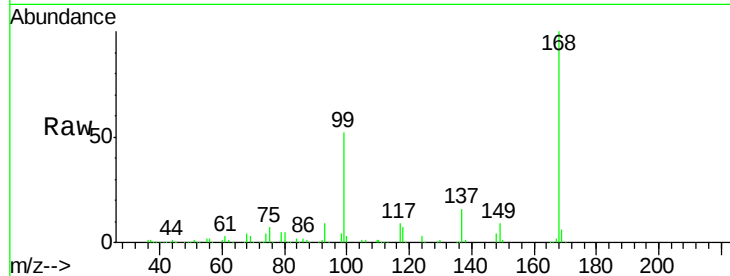




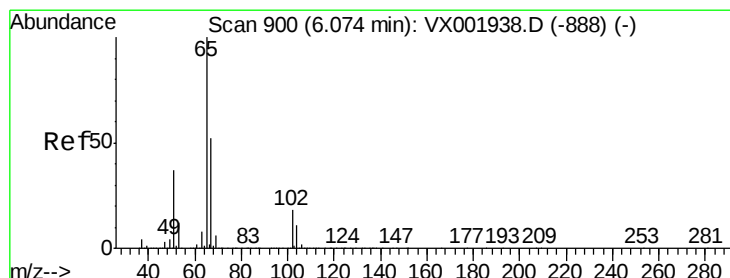
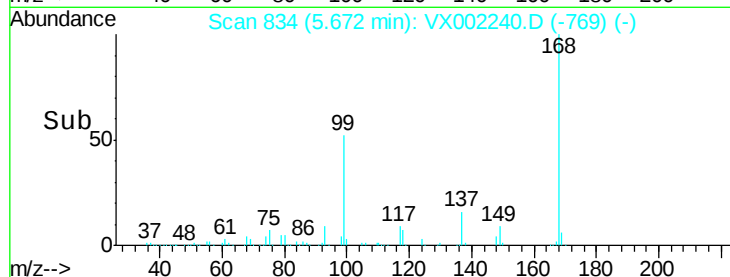
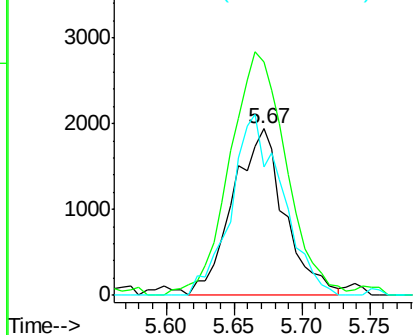
#31
Cyclohexane
Concen: 0.88 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.10 min
Lab File: VX002240.D
Acq: 02 Jun 2018 15:37

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 5184
Ion Ratio Lower Upper
56 100
69 134.6 23.1 34.7#
84 77.2 62.0 93.0

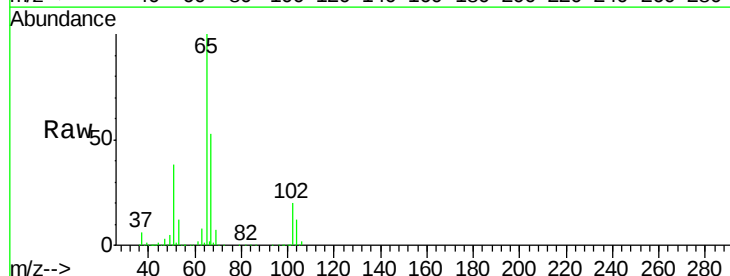


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

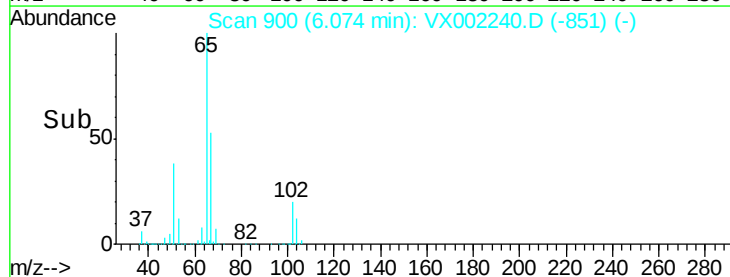
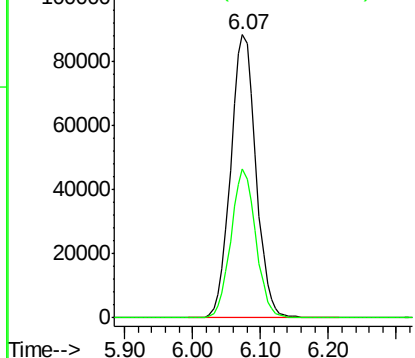


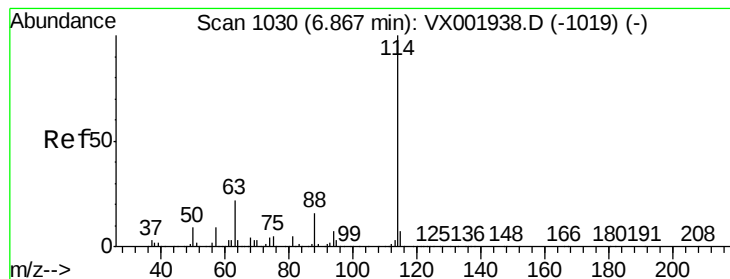
#33
1,2-Dichloroethane-d4
Concen: 53.45 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002240.D
Acq: 02 Jun 2018 15:37

Tgt Ion: 65 Resp: 227216
Ion Ratio Lower Upper
65 100
67 51.9 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002240.D

Acq: 02 Jun 2018 15:37

Instrument :

MSVOA_X

ClientSampleId :

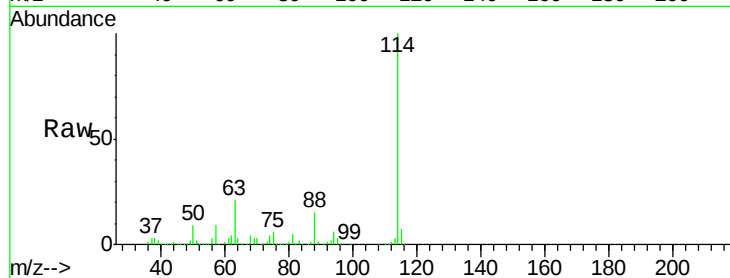
Tot Ion:114 Resp: 352558

Ion Ratio Lower Upper

114 100

63 20.7 0.0 43.2

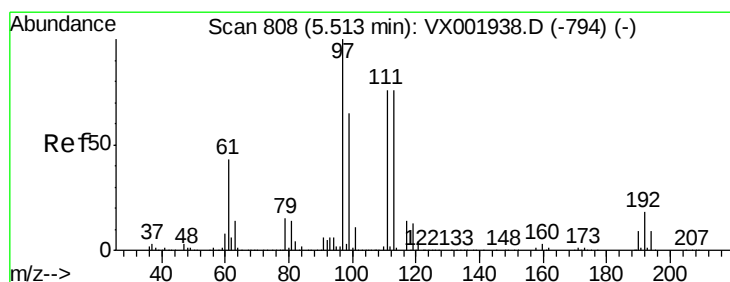
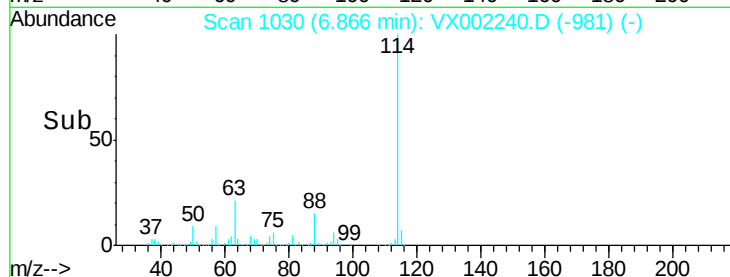
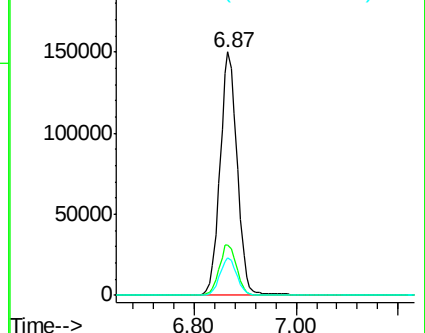
88 15.4 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.37 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX002240.D

Acq: 02 Jun 2018 15:37

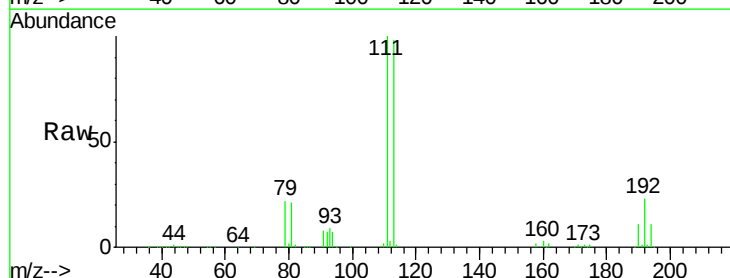
Tgt Ion:113 Resp: 166995

Ion Ratio Lower Upper

113 100

111 102.0 82.0 123.0

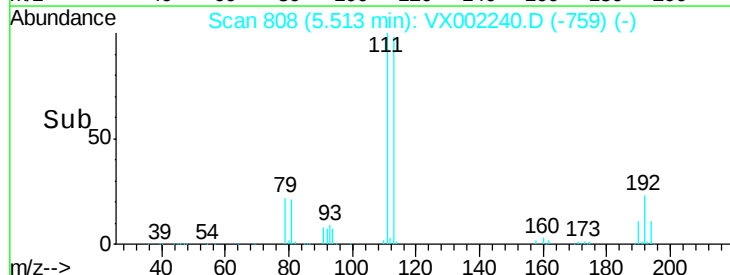
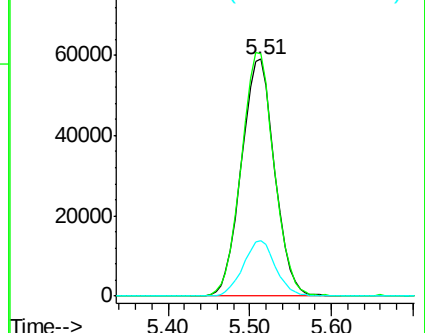
192 23.0 18.9 28.3

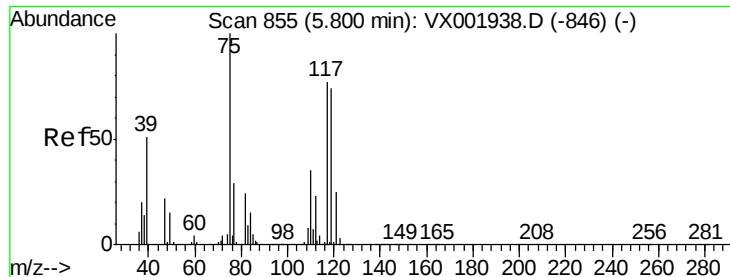


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

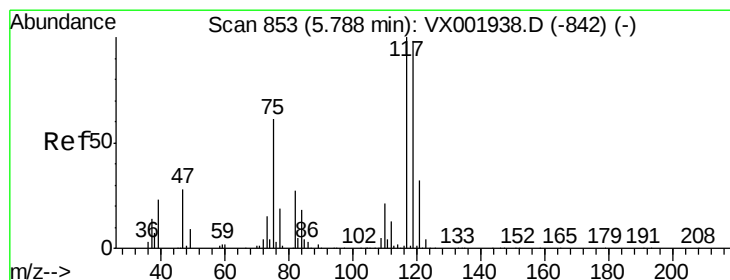
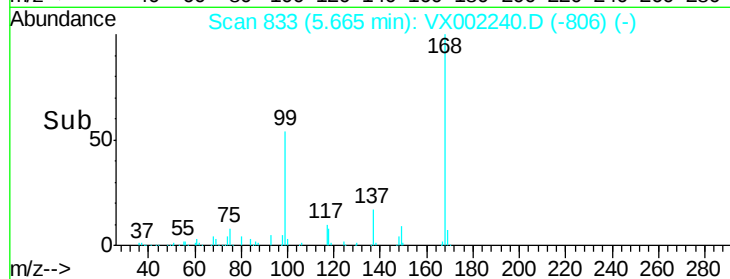
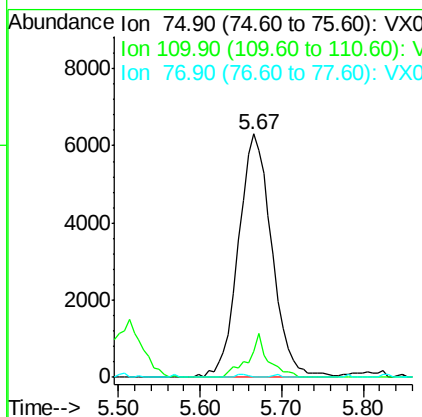
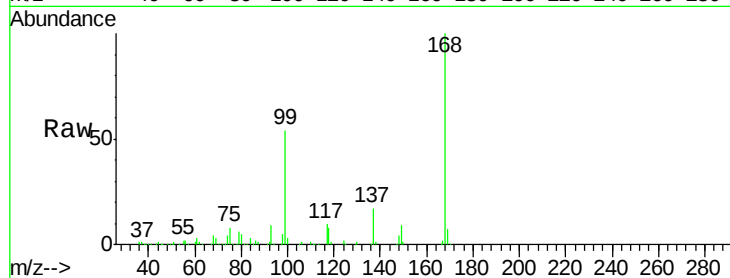




#36
 1,1-Dichloropropene
 Concen: 3.66 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002240.D
 Acq: 02 Jun 2018 15:37

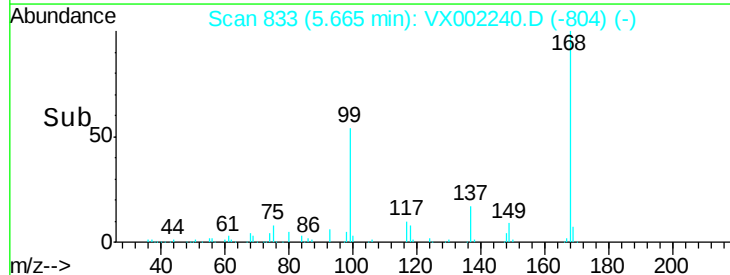
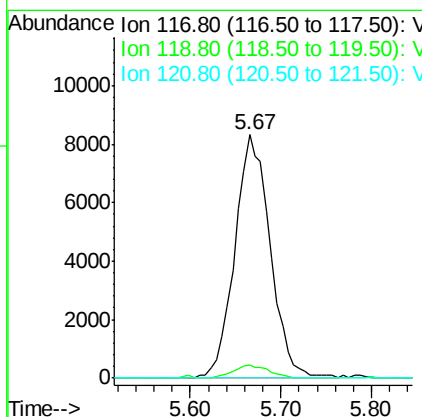
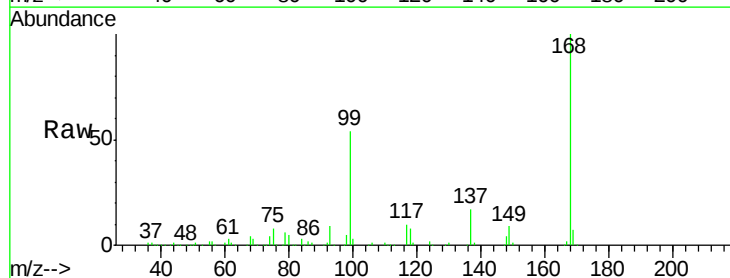
Instrument :
 MSVOA_X
 ClientSampleId :

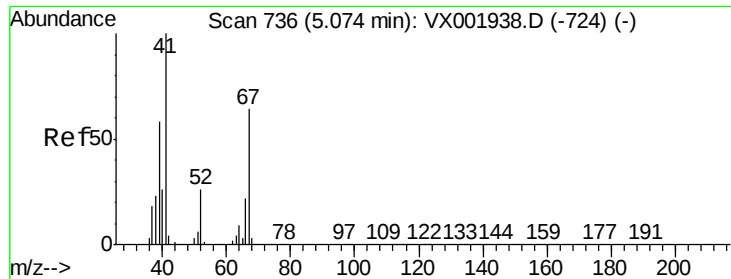
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.8	17.4	52.2#
77	0.4	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 3.93 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002240.D
 Acq: 02 Jun 2018 15:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	78.5	117.7#
121	0.0	25.5	38.3#

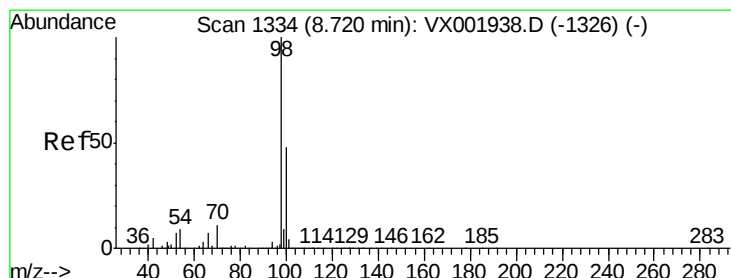
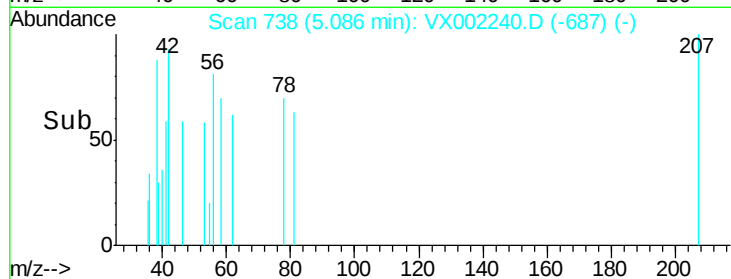
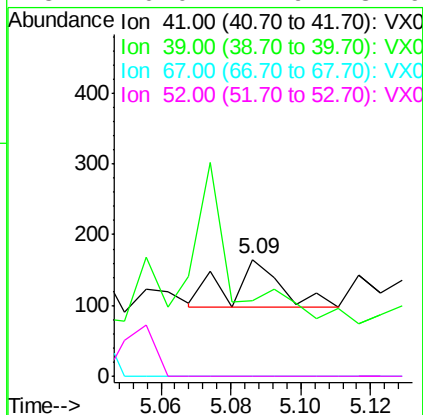
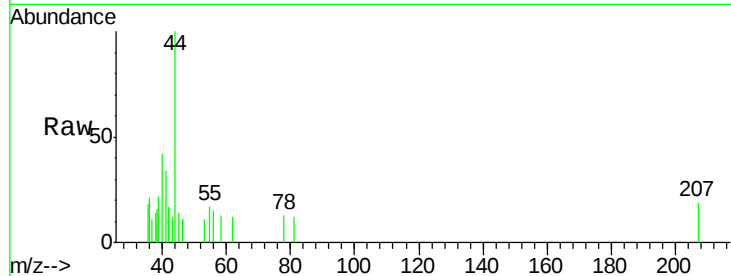




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.09 min Scan# 738
Delta R.T. 0.01 min
Lab File: VX002240.D
Acq: 02 Jun 2018 15:37

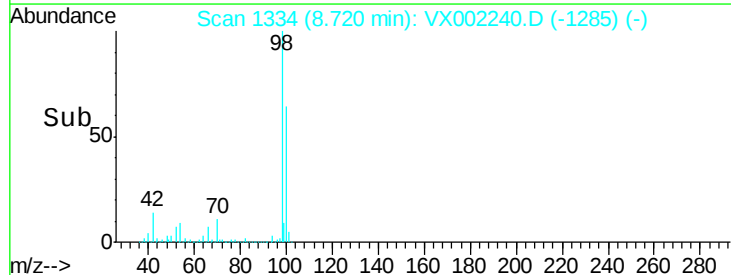
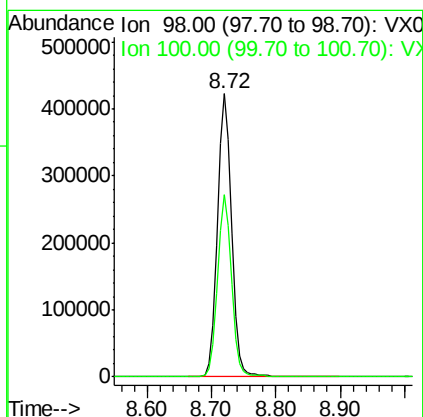
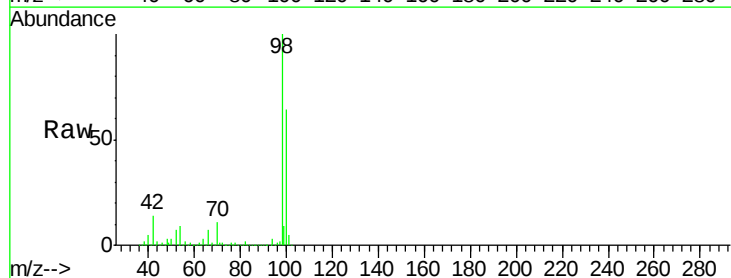
Instrument :
MSVOA_X
ClientSampled :

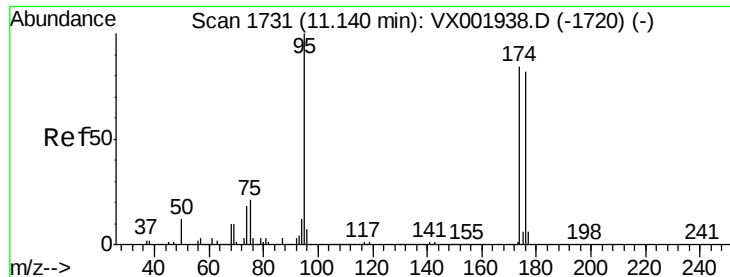
Tot Ion:	41	Resp:	68
Ion	Ratio	Lower	Upper
41	100		
39	667.6	46.0	69.0#
67	0.0	50.6	75.8#
52	0.0	21.9	32.9#



#50
Toluene-d8
Concen: 51.68 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002240.D
Acq: 02 Jun 2018 15:37

Tgt Ion:	98	Resp:	659646
Ion	Ratio	Lower	Upper
98	100		
100	63.6	51.5	77.3

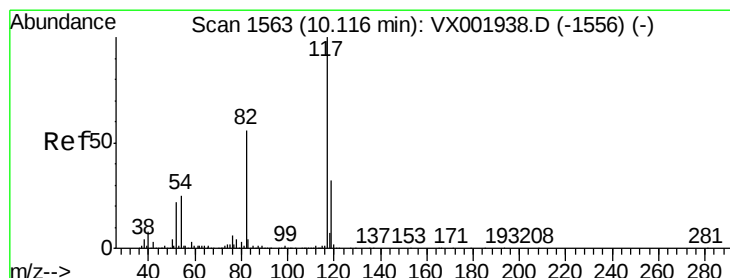
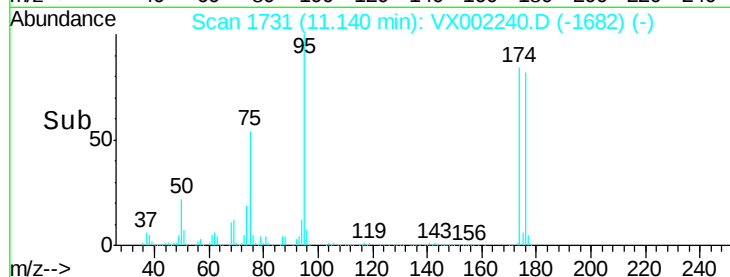
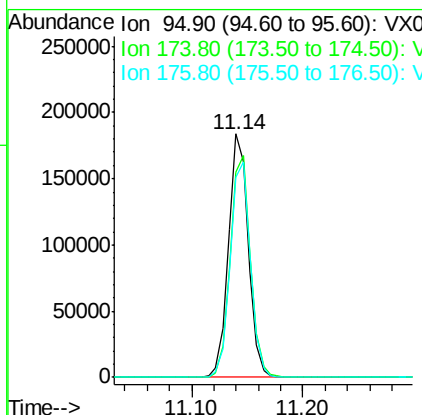
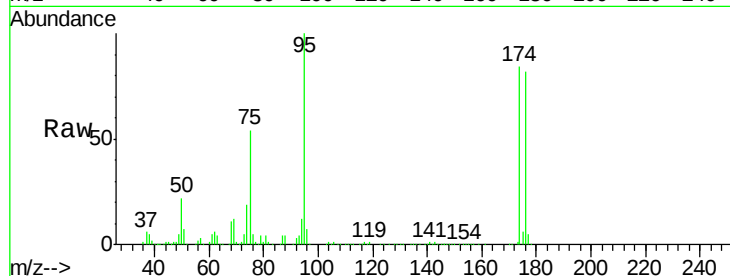




#62
4-Bromofluorobenzene
Concen: 45.19 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002240.D
Acq: 02 Jun 2018 15:37

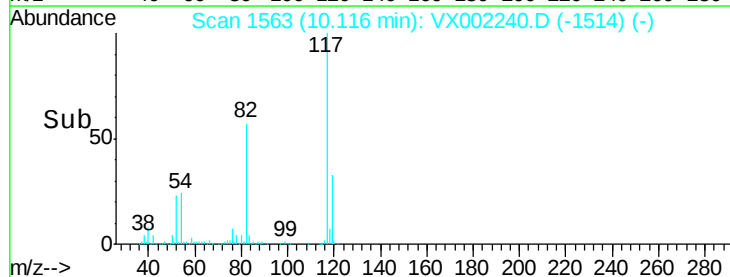
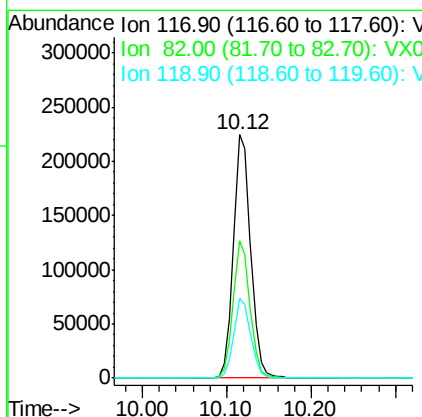
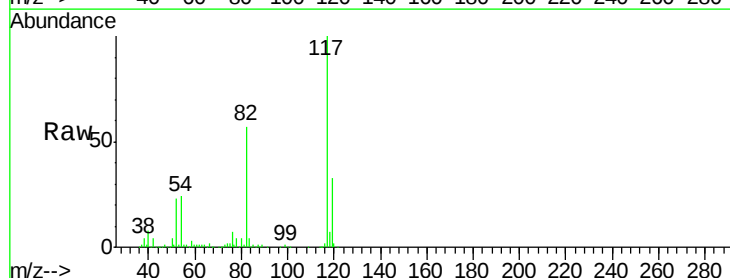
Instrument :
MSVOA_X
ClientSampleId :

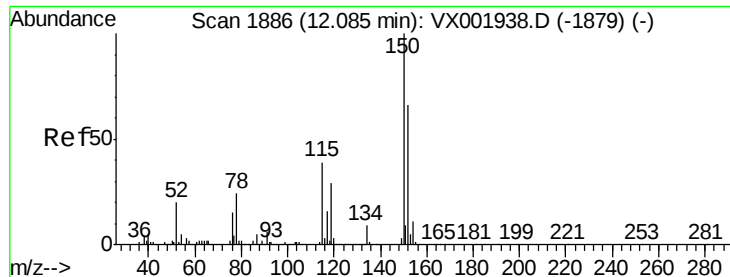
Tot Ion	95	Resp	225673
Ion Ratio	Lower	Upper	
95	100		
174	92.4	0.0	178.8
176	90.2	0.0	175.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002240.D
Acq: 02 Jun 2018 15:37

Tgt Ion	117	Resp	312604
Ion Ratio	Lower	Upper	
117	100		
82	56.7	44.8	67.2
119	32.5	25.5	38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002240.D

Acq: 02 Jun 2018 15:37

Instrument :

MSVOA_X

ClientSampled :

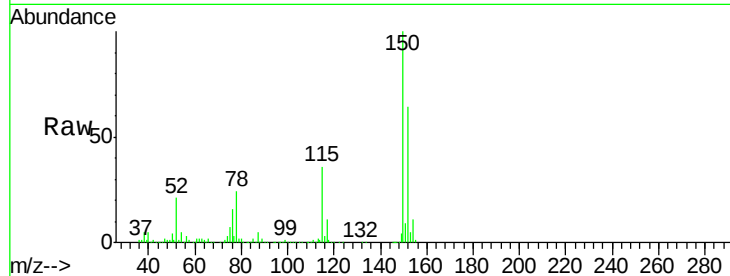
Tot Ion:152 Resp: 165171

Ion Ratio Lower Upper

152 100

115 55.8 42.3 126.8

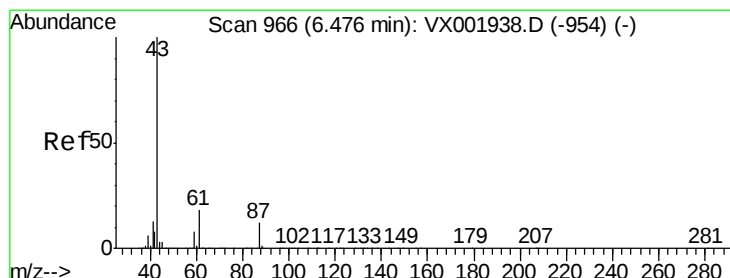
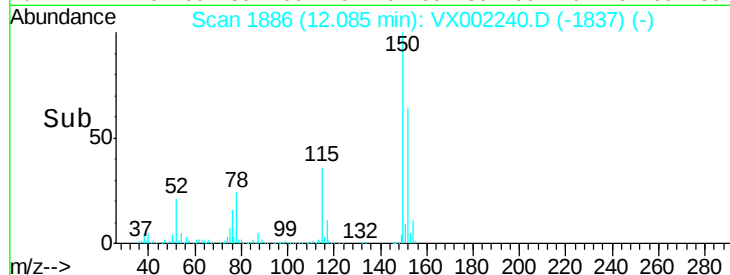
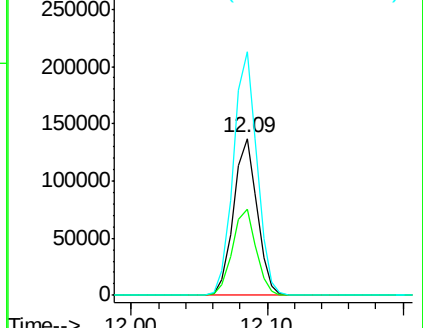
150 155.9 0.0 351.0



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-amil acetate

Concen: Below Cal

RT: 6.46 min Scan# 964

Delta R.T. -0.01 min

Lab File: VX002240.D

Acq: 02 Jun 2018 15:37

Tgt Ion: 43 Resp: 184

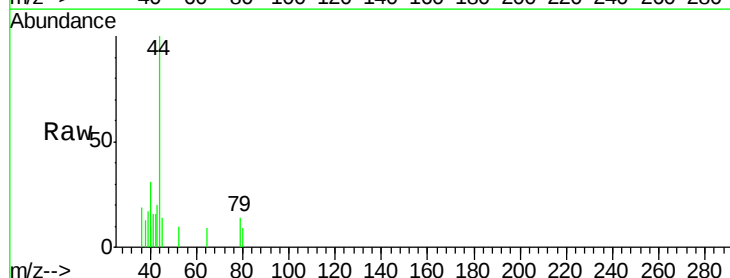
Ion Ratio Lower Upper

43 100

70 0.0 0.1 0.1#

55 38.6 0.1 0.1#

61 0.0 14.5 21.7#

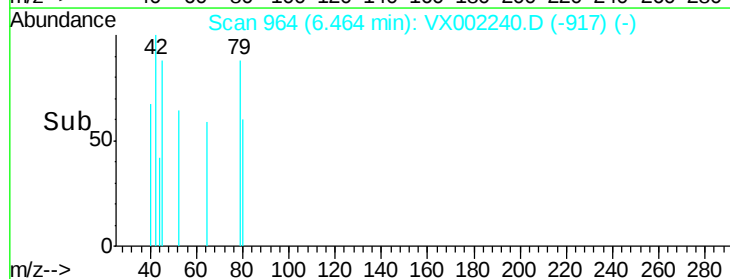
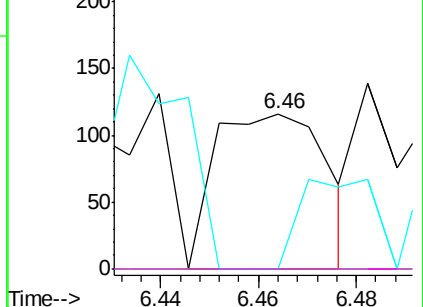


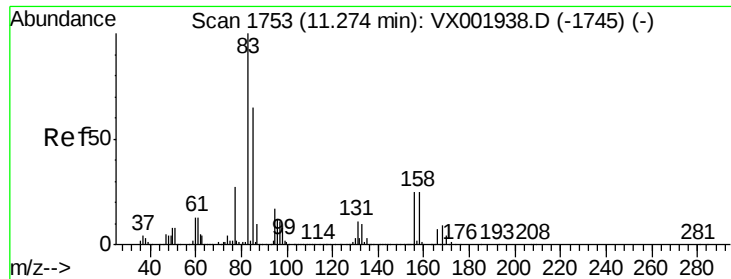
Abundance Ion 43.00 (42.70 to 43.70): VX0

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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.30 min Scan# 1757

Delta R.T. 0.02 min

Lab File: VX002240.D

Acq: 02 Jun 2018 15:37

Instrument :

MSVOA_X

ClientSampleId :

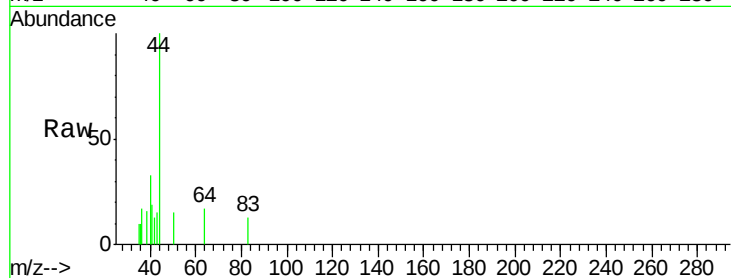
Tot Ion: 83 Resp: 26

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

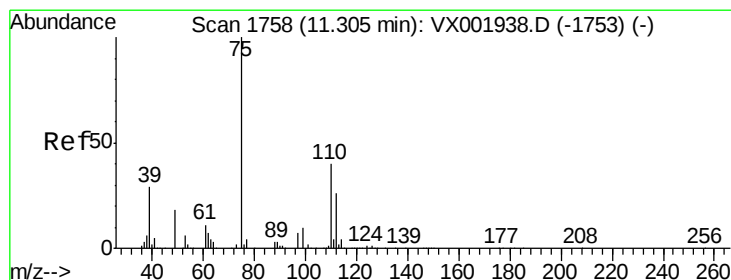
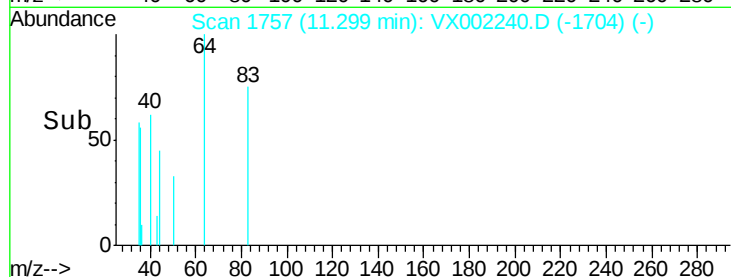
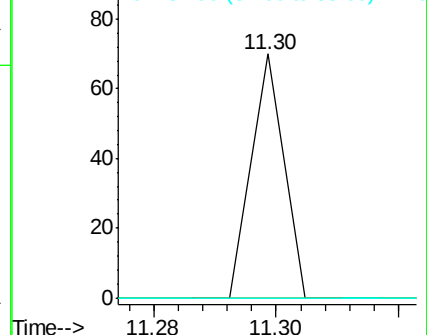
85 0.0 32.6 97.7#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 30.37 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002240.D

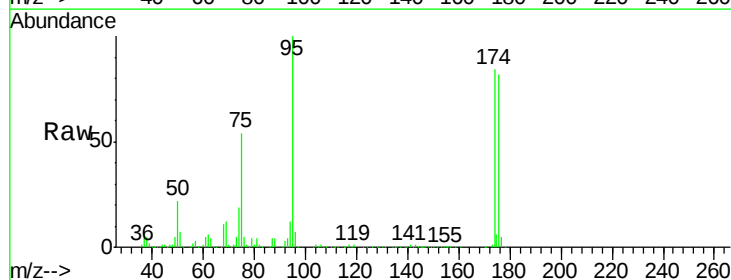
Acq: 02 Jun 2018 15:37

Tgt Ion: 75 Resp: 120492

Ion Ratio Lower Upper

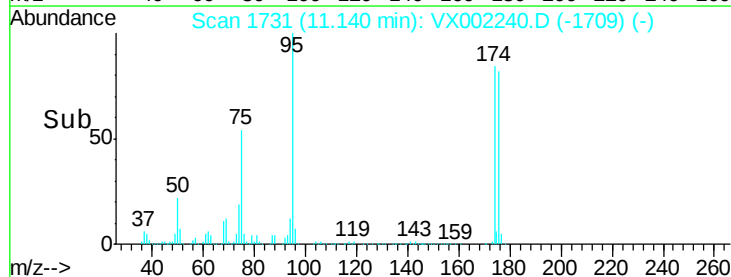
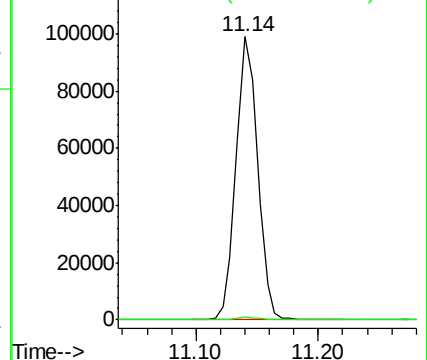
75 100

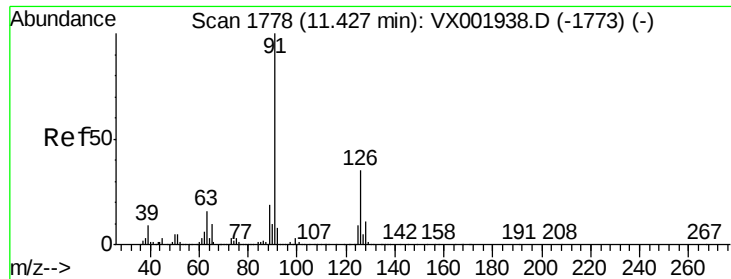
77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.43 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VX002240.D

Acq: 02 Jun 2018 15:37

Instrument :

MSVOA_X

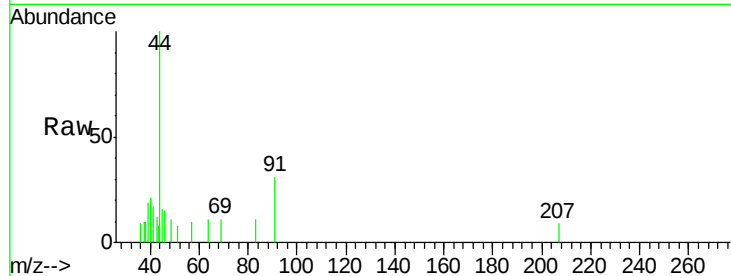
ClientSampleId :

Tot Ion: 91 Resp: 207

Ion Ratio Lower Upper

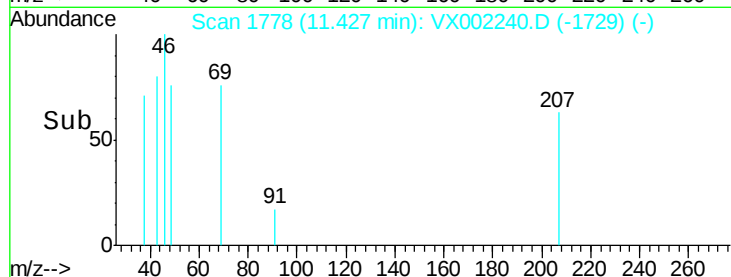
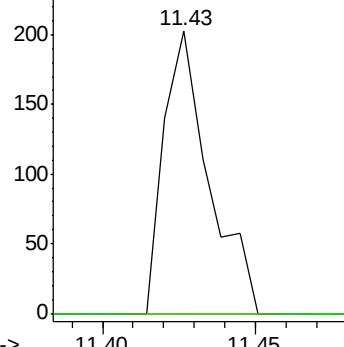
91 100

126 0.0 17.4 52.2#

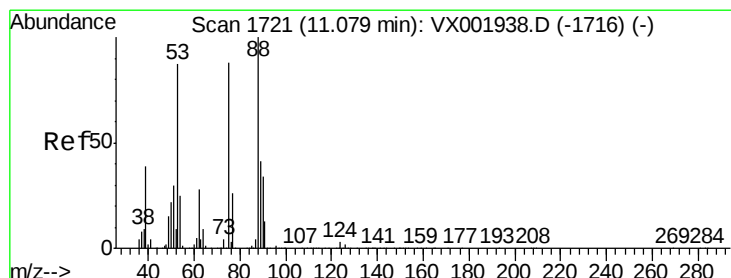


Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 72.99 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002240.D

Acq: 02 Jun 2018 15:37

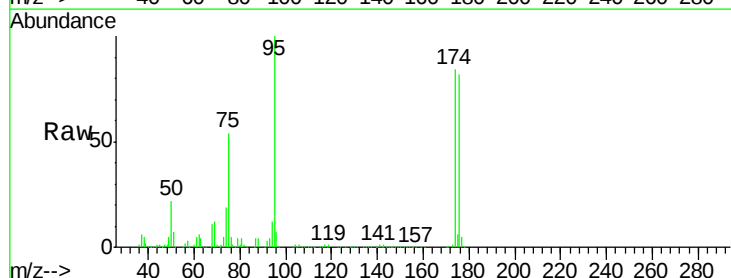
Tgt Ion: 75 Resp: 120492

Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

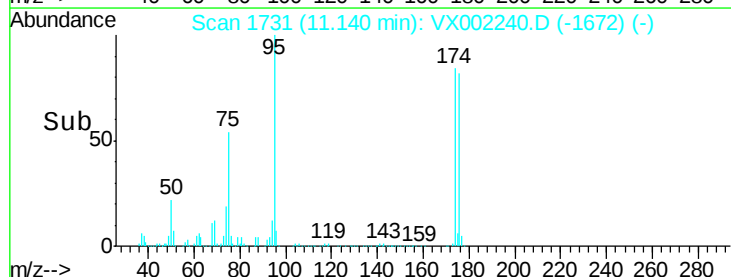
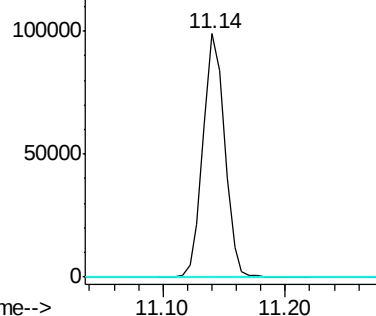
89 0.0 39.4 59.2#



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



Time-->