

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX011420\
 Data File : VX014602.D
 Acq On : 14 Jan 2020 12:55
 Operator : JC/SP
 Sample : L1116-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS037-200113

Quant Time: Jan 14 23:32:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

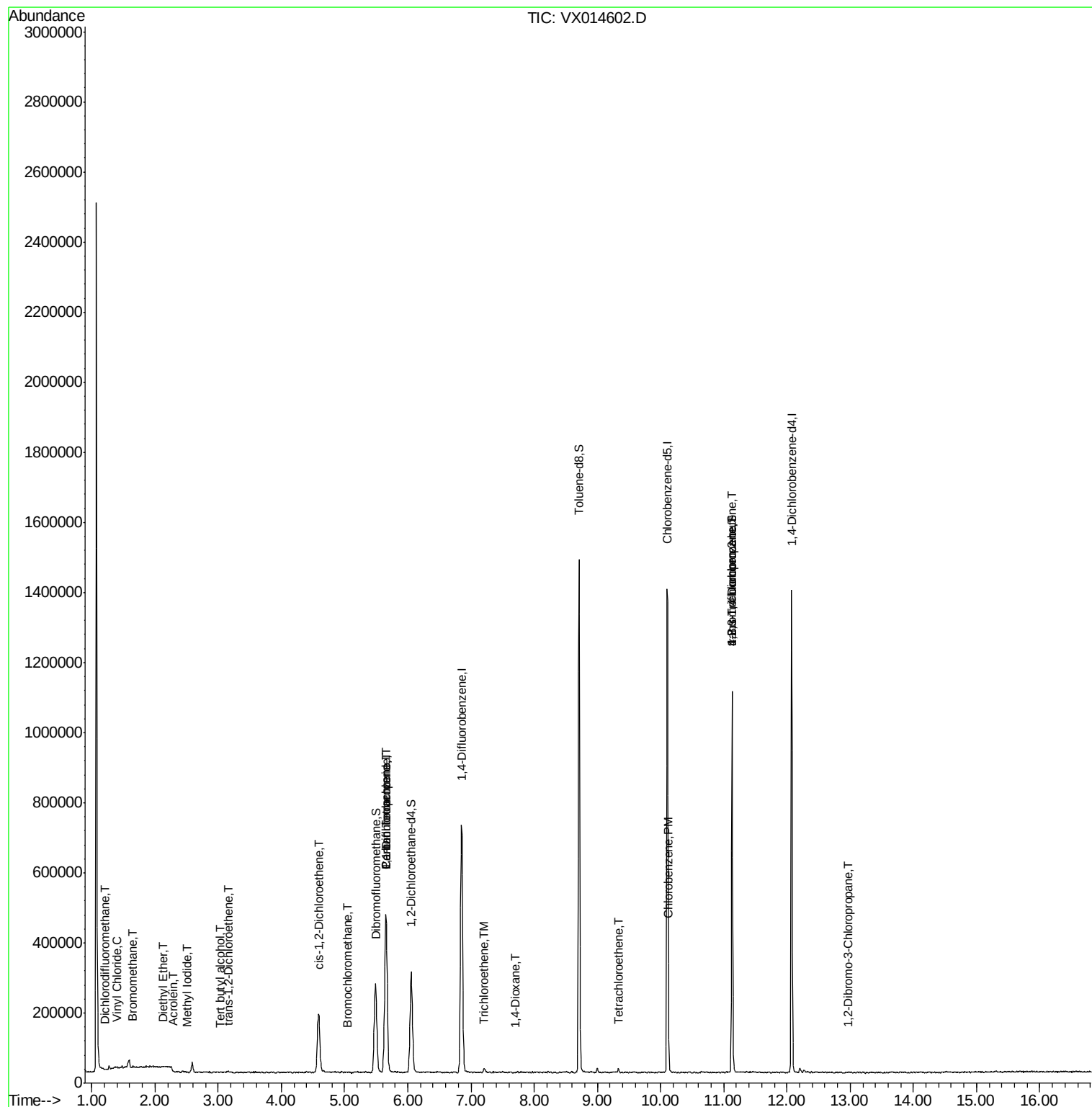
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	471456	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	734582	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	662985	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	293542	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	266807	50.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.38%	
35) Dibromofluoromethane	5.48	113	221492	49.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.62%	
50) Toluene-d8	8.71	98	867456	50.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.54%	
62) 4-Bromofluorobenzene	11.13	95	289865	45.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.52%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.20	85	567	0.349	ug/l #	42
4) Vinyl Chloride	1.40	62	1728	0.258	ug/l	100
5) Bromomethane	1.65	94	1066	0.240	ug/l #	27
6) Chloroethane	1.72	64	229	Below Cal	#	43
8) Diethyl Ether	2.13	74	821	0.237	ug/l	52
10) Methyl Iodide	2.51	142	1421	0.257	ug/l #	90
11) Tert butyl alcohol	3.03	59	1080	0.983	ug/l #	52
13) Acrolein	2.28	56	294	0.334	ug/l #	1
16) Acetone	2.43	43	5462	Below Cal		93
21) trans-1,2-Dichloroethene	3.15	96	2374	0.467	ug/l	96
27) cis-1,2-Dichloroethene	4.59	96	112497	19.796	ug/l	91
28) Bromochloromethane	5.04	49	735	0.203	ug/l #	58
36) 1,1-Dichloropropene	5.65	75	32318	4.678	ug/l #	51
38) Carbon Tetrachloride	5.65	117	41215	6.483	ug/l #	17
44) Trichloroethene	7.22	130	4864	0.826	ug/l	95
49) 1,4-Dioxane	7.70	88	319	2.593	ug/l #	1
64) Tetrachloroethene	9.33	164	2610	0.393	ug/l	87
65) Chlorobenzene	10.13	112	5506	0.383	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	142502	23.463	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	142502	62.032	ug/l #	12
88) 1,4-Dichlorobenzene	12.02	146	821	Below Cal		70
92) 1,2-Dibromo-3-Chloropropan	12.97	75	455	0.306	ug/l	51
93) 1,2,4-Trichlorobenzene	13.63	180	670	Below Cal	#	68
96) 1,2,3-Trichlorobenzene	14.02	180	463	Below Cal	#	44

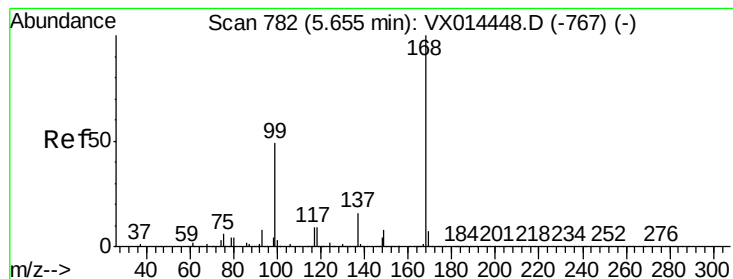
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jan 07 15:54:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

Instrument :

MSVOA_X

ClientSampleId :

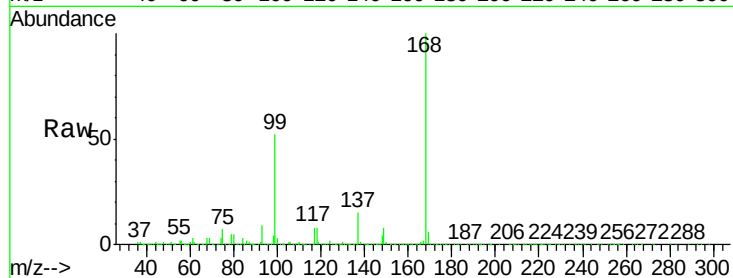
KY038PS037-200113

Tgt Ion:168 Resp: 471456

Ion Ratio Lower Upper

168 100

99 51.9 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

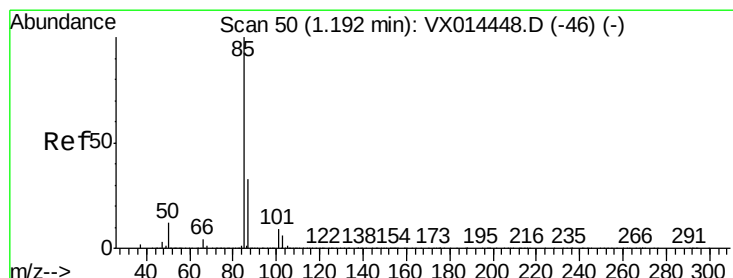
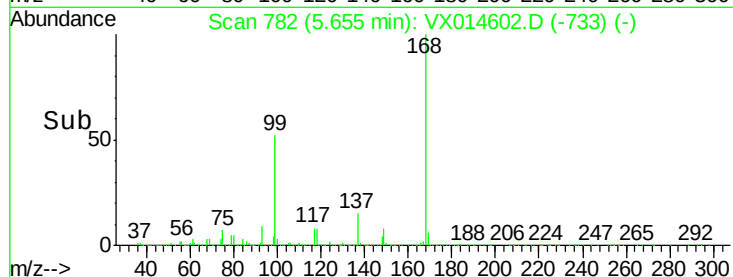
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.349 ug/l

RT: 1.20 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX014602.D

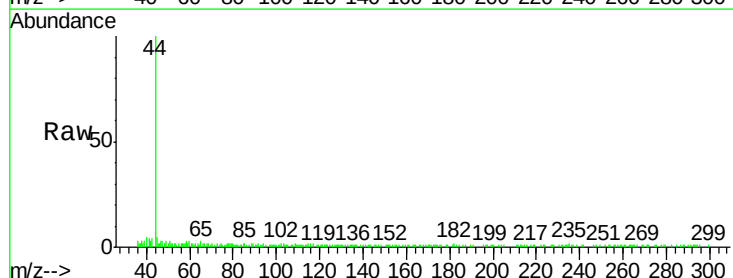
Acq: 14 Jan 2020 12:55

Tgt Ion: 85 Resp: 567

Ion Ratio Lower Upper

85 100

87 0.3 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

400

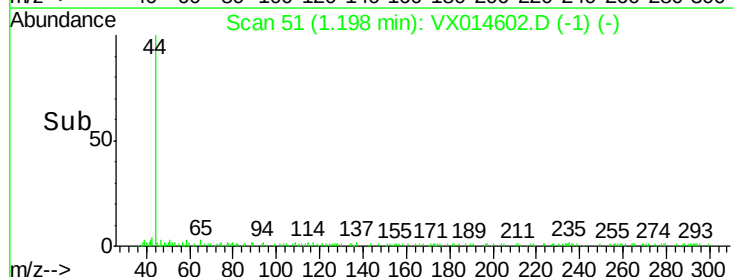
300

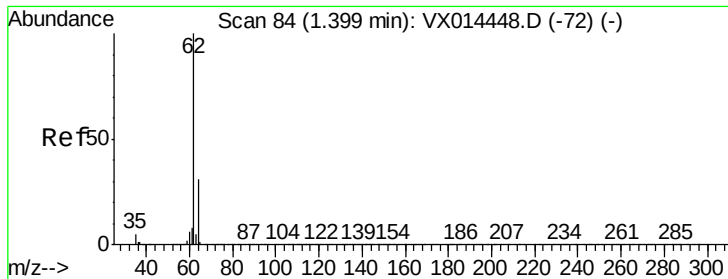
200

100

0

Time-->





#4

Vinyl Chloride

Concen: 0.258 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

Instrument :

MSVOA_X

ClientSampleId :

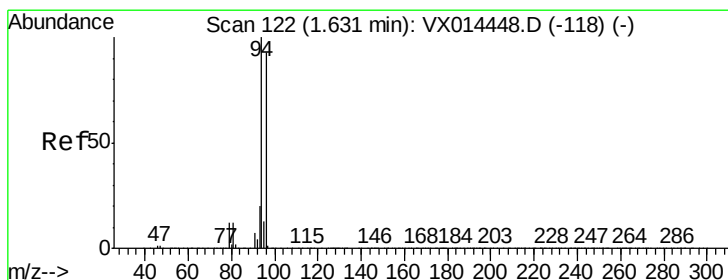
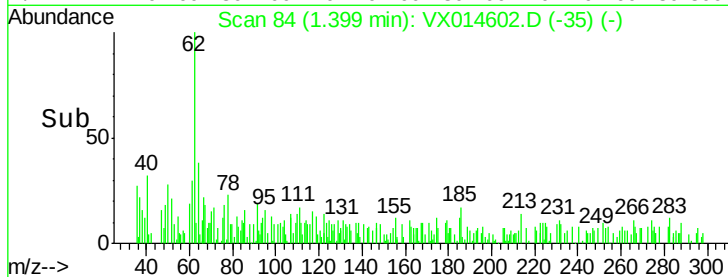
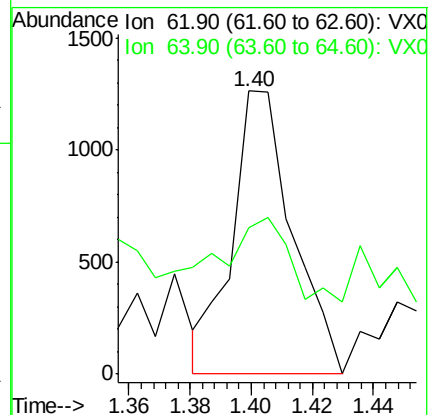
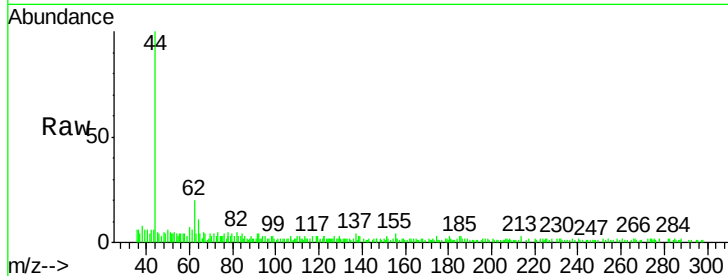
KY038PS037-200113

Tgt Ion: 62 Resp: 1728

Ion Ratio Lower Upper

62 100

64 30.7 24.6 37.0



#5

Bromomethane

Concen: 0.240 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014602.D

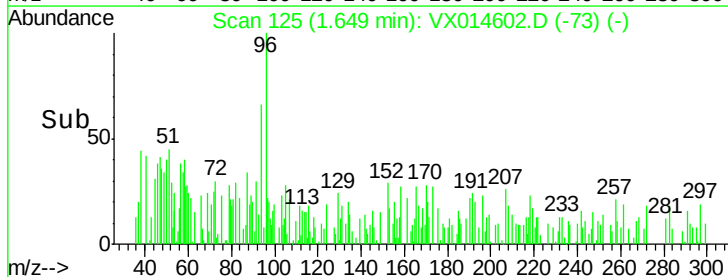
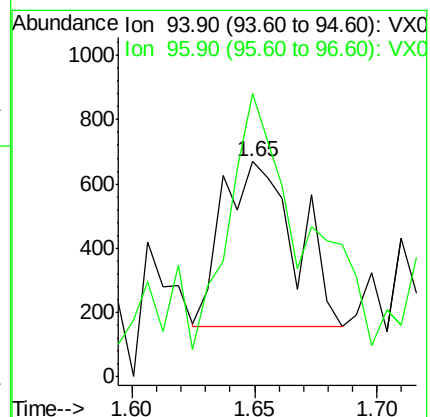
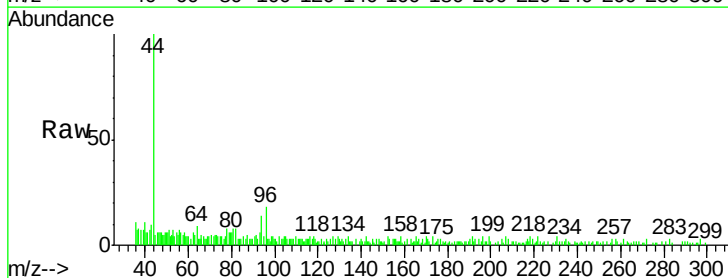
Acq: 14 Jan 2020 12:55

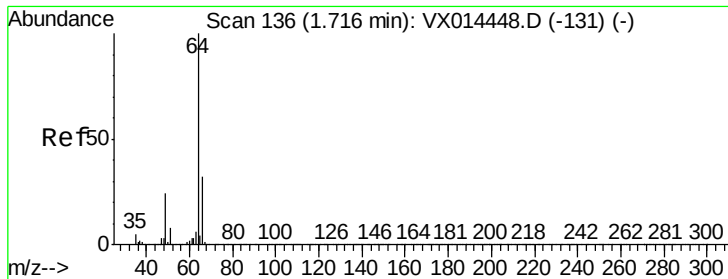
Tgt Ion: 94 Resp: 1066

Ion Ratio Lower Upper

94 100

96 163.1 74.2 111.2#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

Instrument :

MSVOA_X

ClientSampleId :

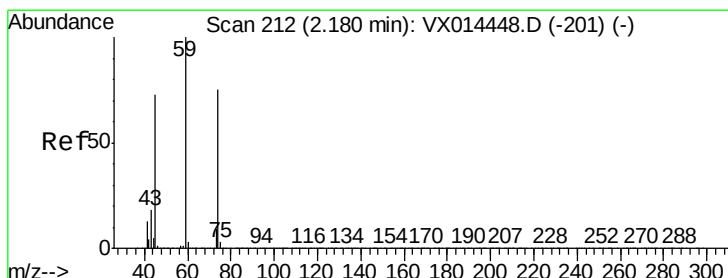
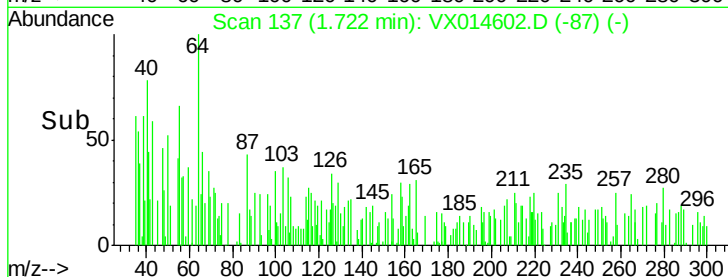
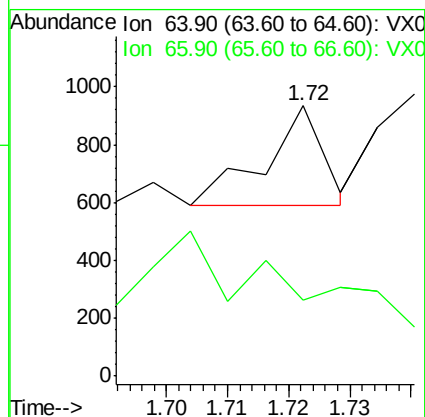
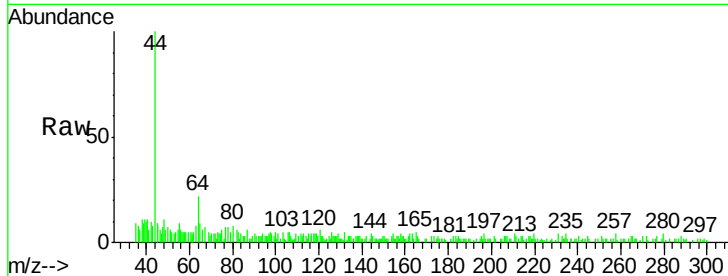
KY038PS037-200113

Tgt Ion: 64 Resp: 229

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



#8

Diethyl Ether

Concen: 0.237 ug/l

RT: 2.13 min Scan# 204

Delta R.T. -0.05 min

Lab File: VX014602.D

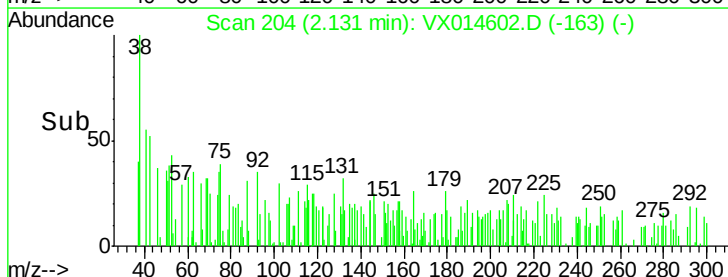
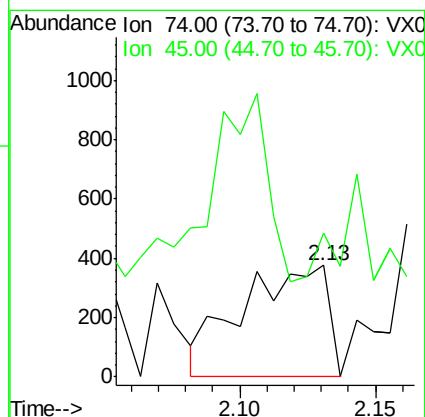
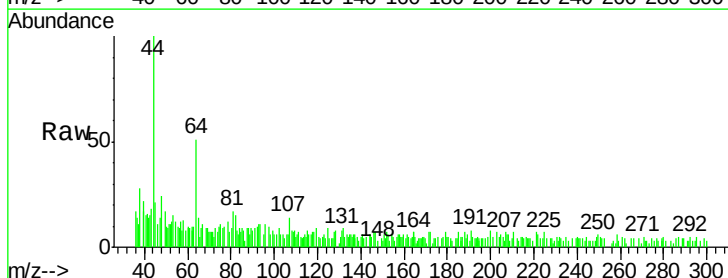
Acq: 14 Jan 2020 12:55

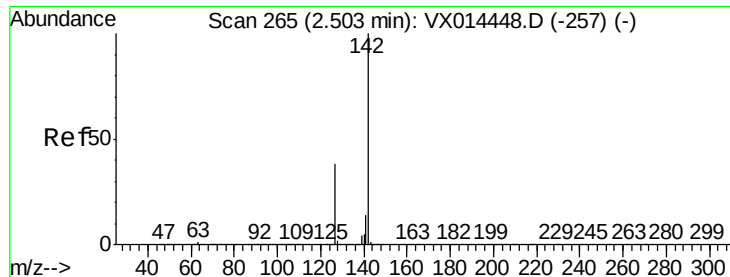
Tgt Ion: 74 Resp: 821

Ion Ratio Lower Upper

74 100

45 50.3 48.7 146.1





#10

Methyl Iodide

Concen: 0.257 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

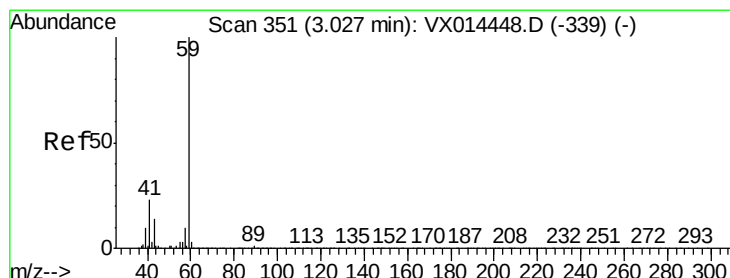
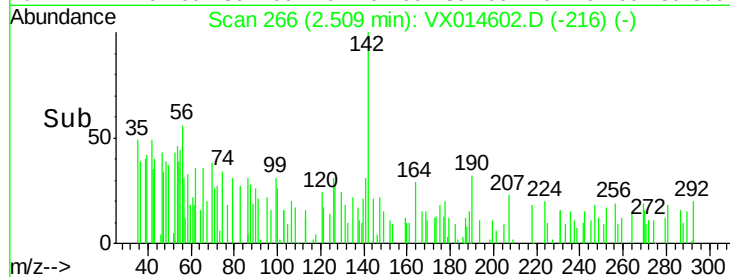
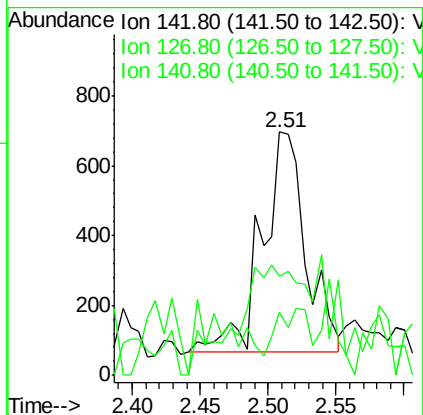
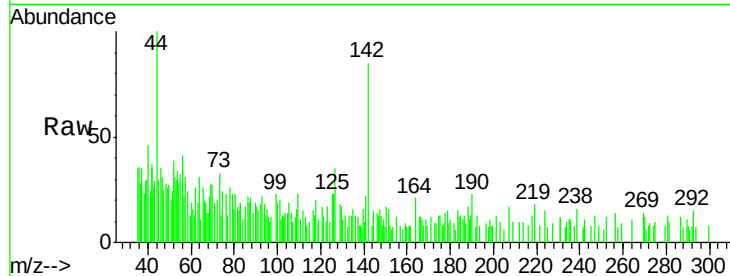
Instrument :

MSVOA_X

ClientSampleId :

KY038PS037-200113

Tgt Ion:	142	Resp:	1421
Ion	Ratio	Lower	Upper
142	100		
127	42.8	31.2	46.8
141	23.1	11.4	17.2#



#11

Tert butyl alcohol

Concen: 0.983 ug/l

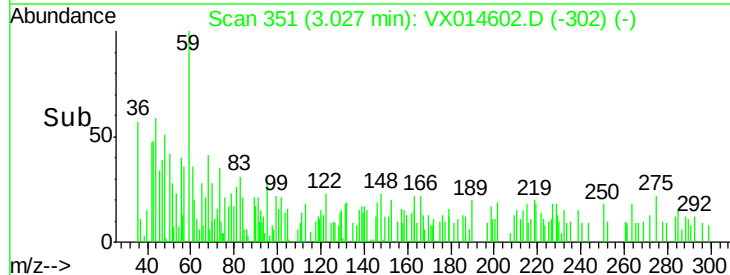
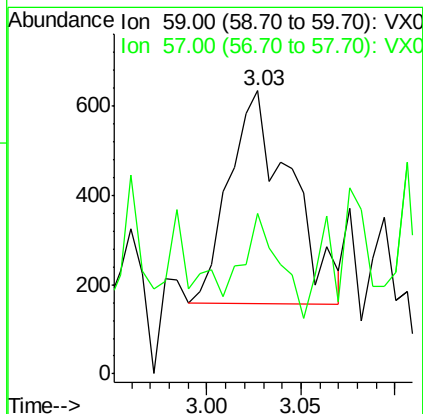
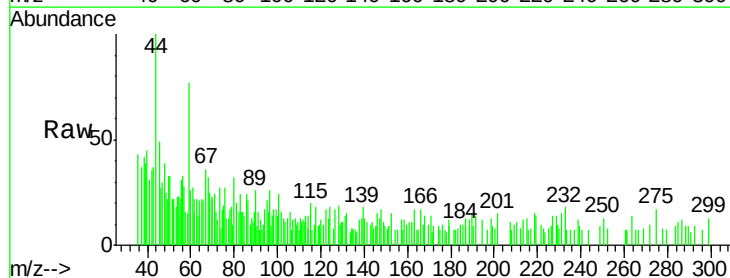
RT: 3.03 min Scan# 351

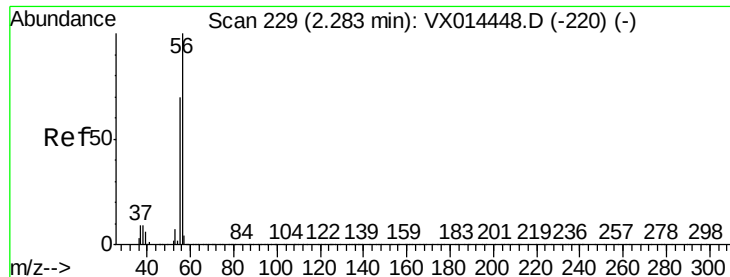
Delta R.T. -0.00 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

Tgt Ion:	59	Resp:	1080
Ion	Ratio	Lower	Upper
59	100		
57	28.8	8.5	12.7#





#13

Acrolein

Concen: 0.334 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

Instrument :

MSVOA_X

ClientSampleId :

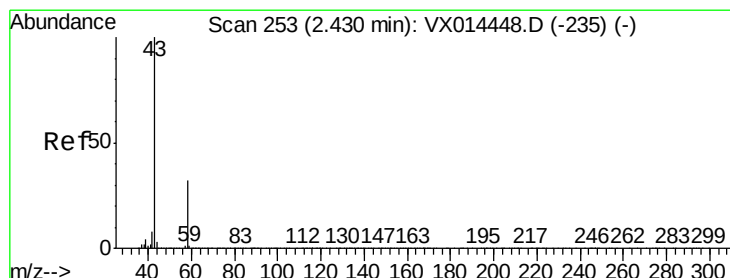
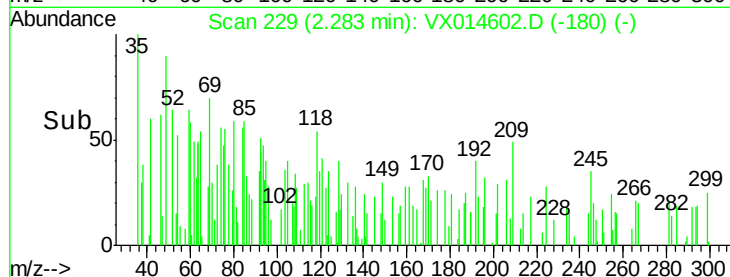
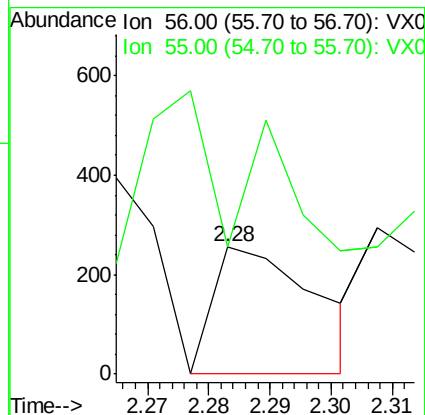
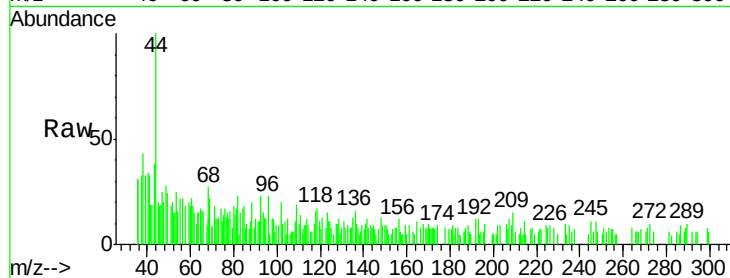
KY038PS037-200113

Tgt Ion: 56 Resp: 294

Ion Ratio Lower Upper

56 100

55 182.3 55.0 82.6#



#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014602.D

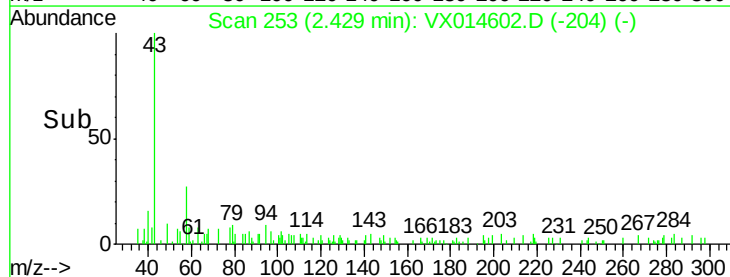
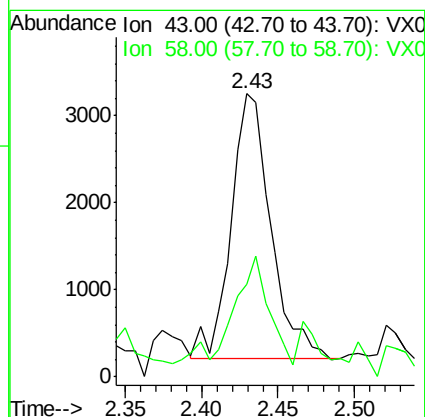
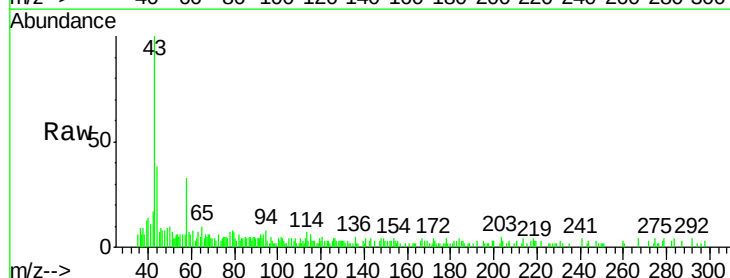
Acq: 14 Jan 2020 12:55

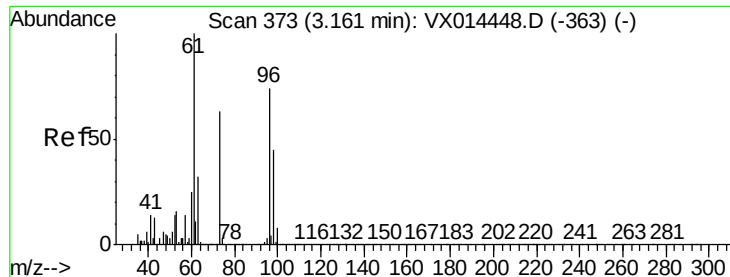
Tgt Ion: 43 Resp: 5462

Ion Ratio Lower Upper

43 100

58 28.0 25.4 38.0





#21

trans-1,2-Dichloroethene

Concen: 0.467 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

Instrument :

MSVOA_X

ClientSampleId :

KY038PS037-200113

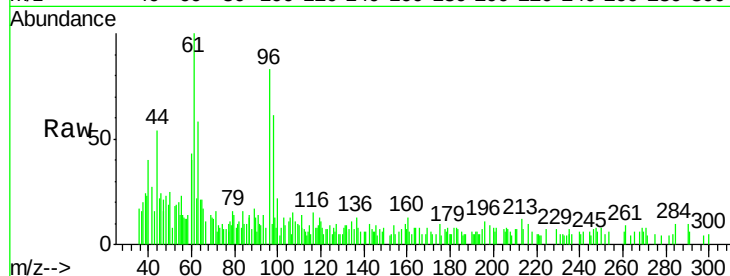
Tgt Ion: 96 Resp: 2374

Ion Ratio Lower Upper

96 100

61 132.9 108.2 162.4

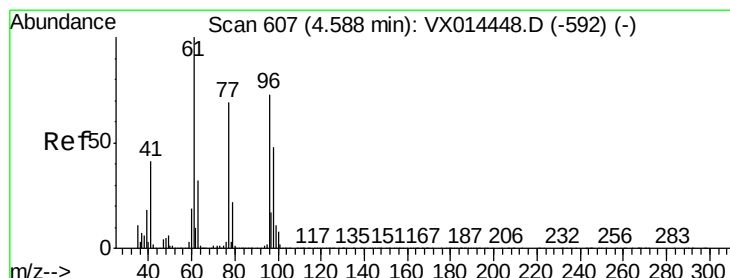
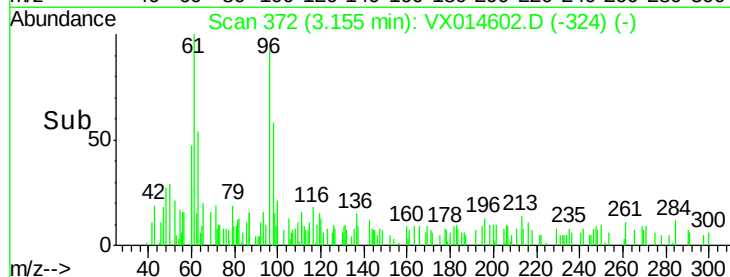
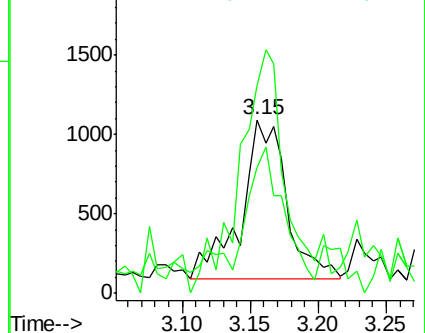
98 67.2 48.8 73.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 19.796 ug/l

RT: 4.59 min Scan# 607

Delta R.T. -0.00 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

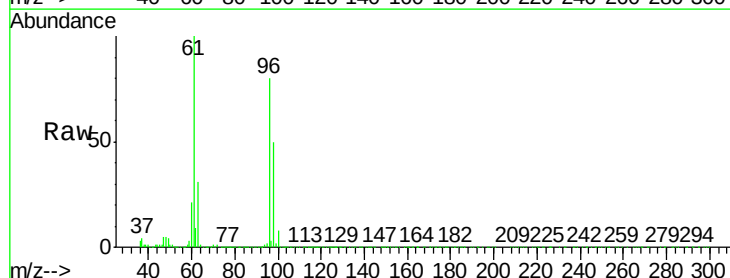
Tgt Ion: 96 Resp: 112497

Ion Ratio Lower Upper

96 100

61 126.5 0.0 285.4

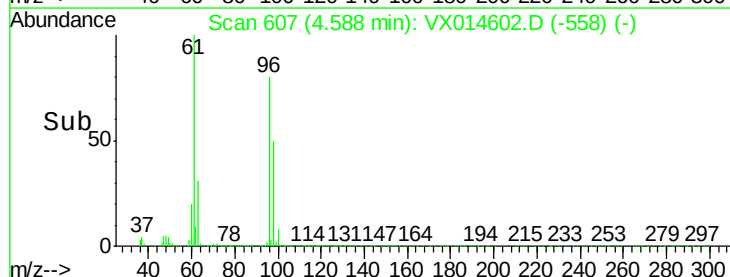
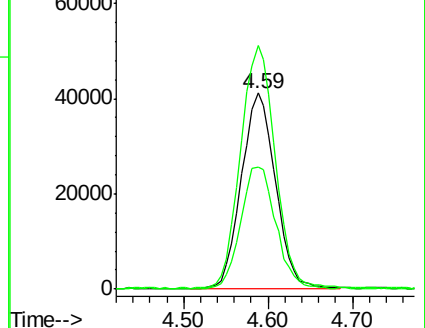
98 64.7 0.0 130.6

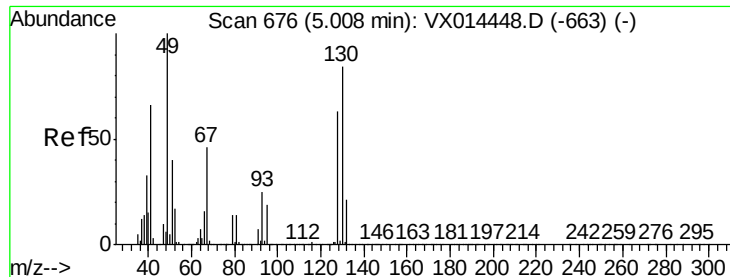


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: 0.203 ug/l

RT: 5.04 min Scan# 681

Delta R.T. 0.03 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

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ClientSampleId :

KY038PS037-200113

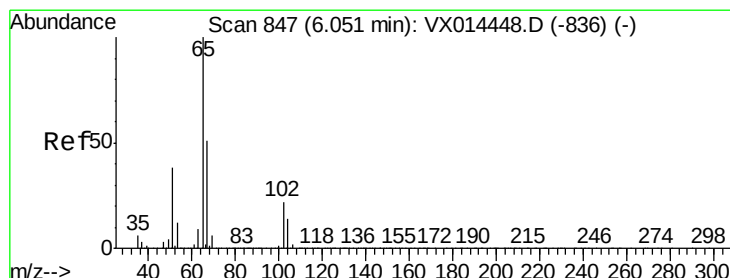
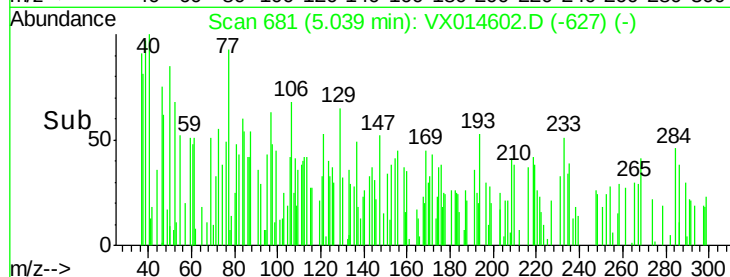
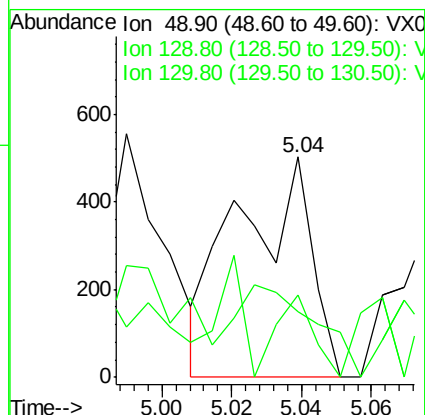
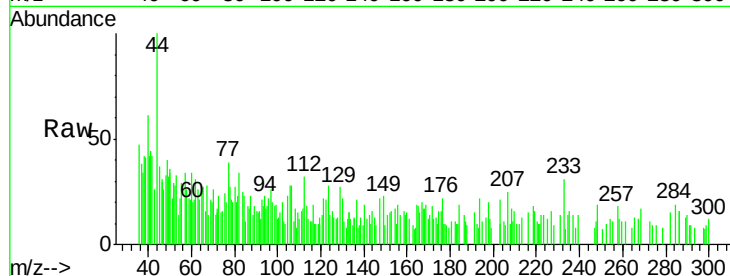
Tgt Ion: 49 Resp: 735

Ion Ratio Lower Upper

49 100

129 19.0 0.0 4.4#

130 45.4 67.0 100.4#



#33

1,2-Dichloroethane-d4

Concen: 50.694 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX014602.D

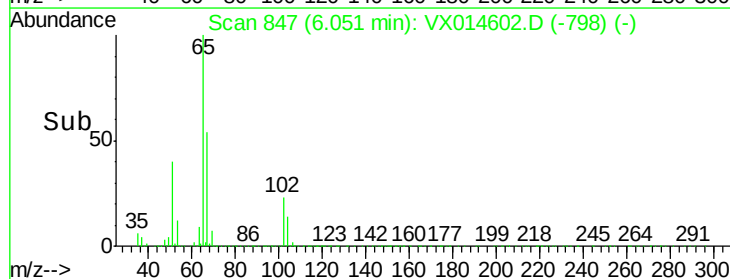
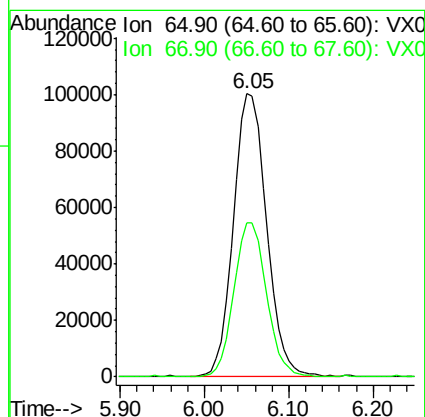
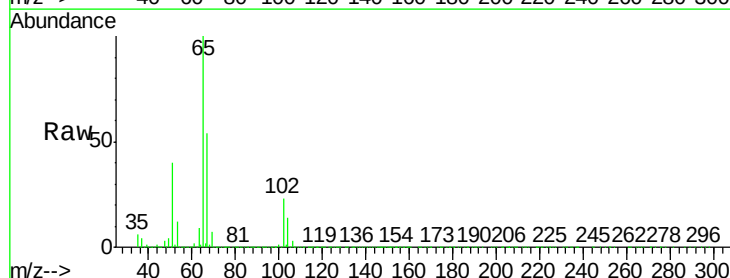
Acq: 14 Jan 2020 12:55

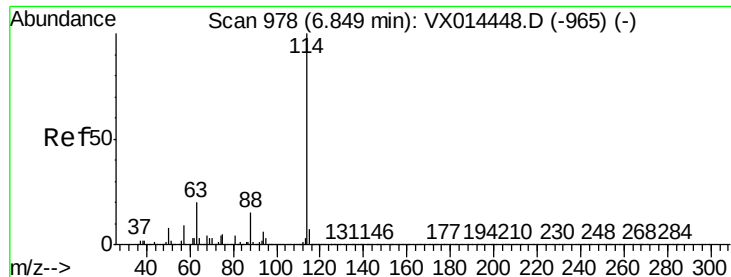
Tgt Ion: 65 Resp: 266807

Ion Ratio Lower Upper

65 100

67 53.3 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

Instrument :

MSVOA_X

ClientSampleId :

KY038PS037-200113

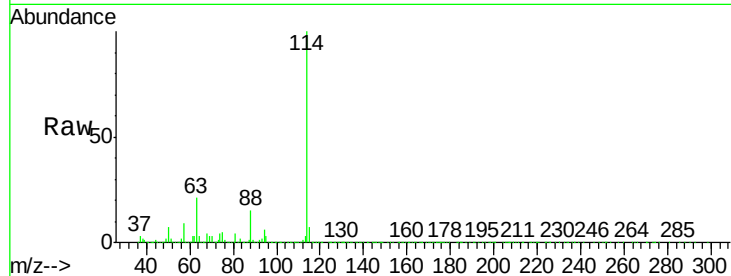
Tgt Ion:114 Resp: 734582

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.6

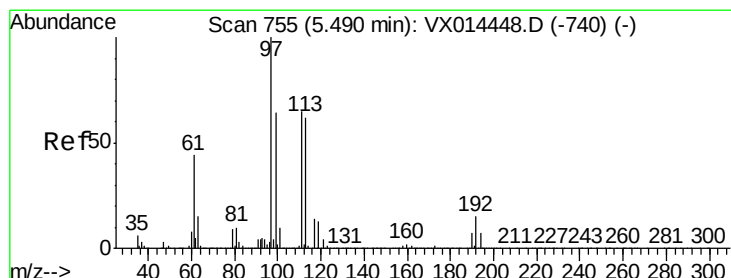
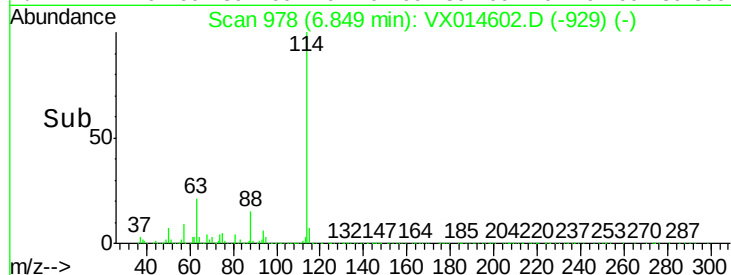
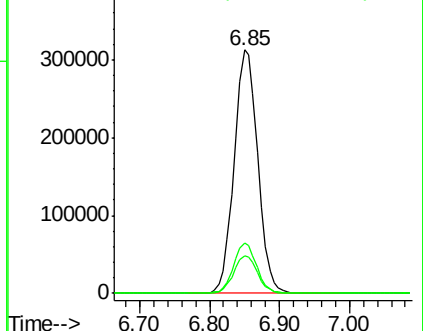
88 15.3 0.0 30.8



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: 49.810 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

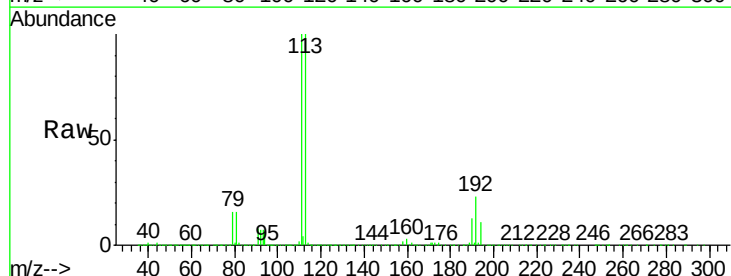
Tgt Ion:113 Resp: 221492

Ion Ratio Lower Upper

113 100

111 102.7 81.5 122.3

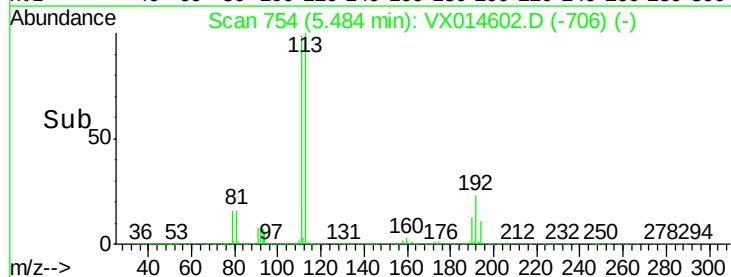
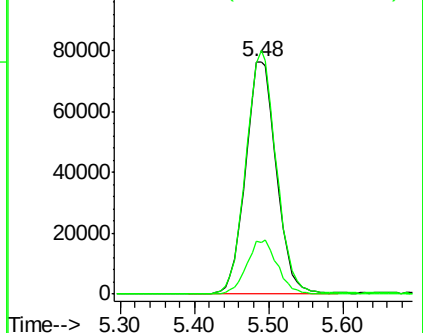
192 23.4 19.2 28.8

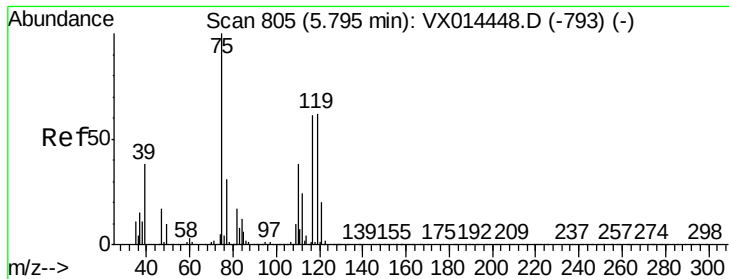


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

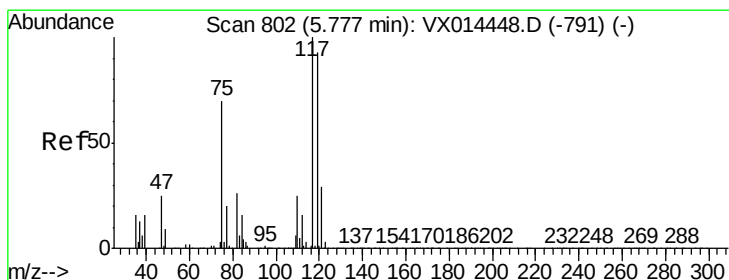
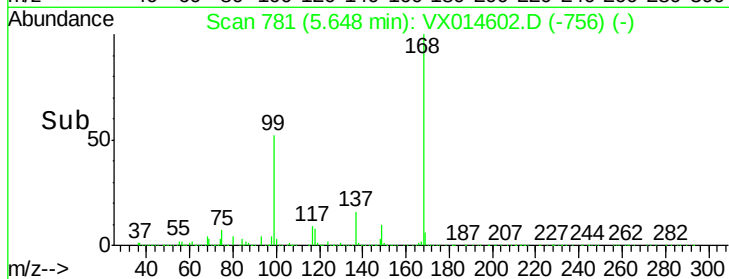
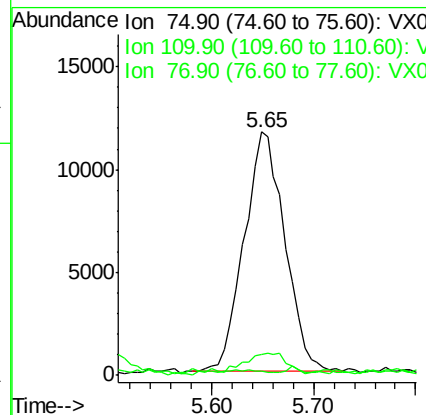
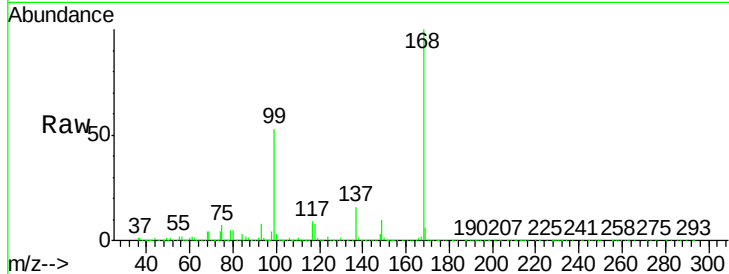




#36
 1,1-Dichloropropene
 Concen: 4.678 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX014602.D
 Acq: 14 Jan 2020 12:55

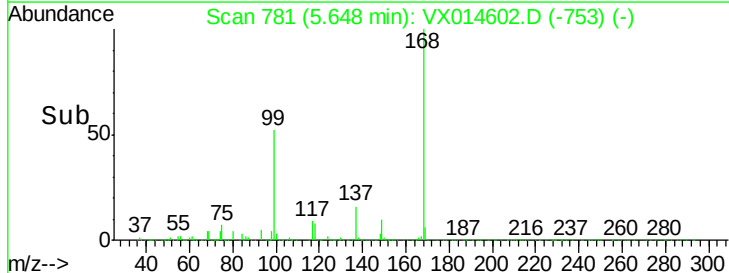
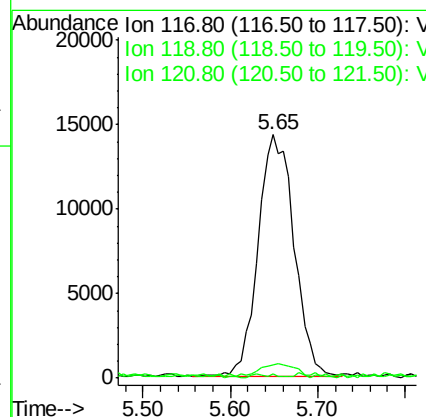
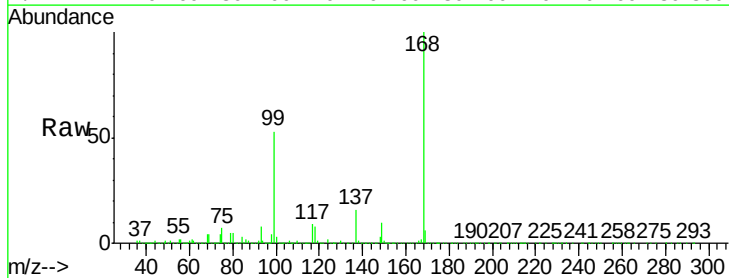
Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS037-200113

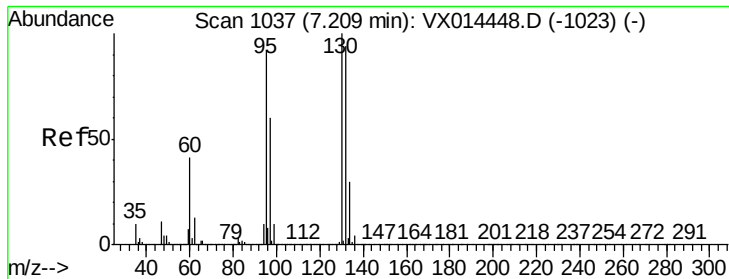
Tgt Ion: 75 Resp: 32318
 Ion Ratio Lower Upper
 75 100
 110 10.6 18.6 55.8#
 77 1.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 6.483 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014602.D
 Acq: 14 Jan 2020 12:55

Tgt Ion: 117 Resp: 41215
 Ion Ratio Lower Upper
 117 100
 119 4.4 73.8 110.8#
 121 0.5 23.4 35.0#





#44

Trichloroethene

Concen: 0.826 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

Instrument :

MSVOA_X

ClientSampleId :

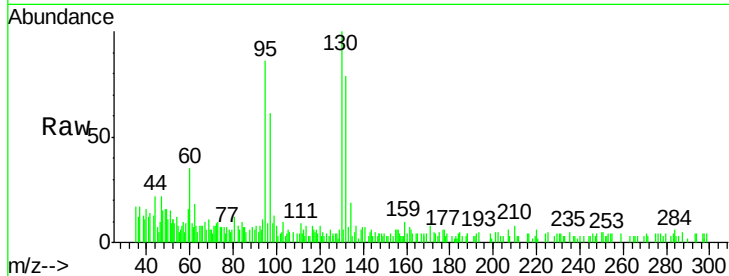
KY038PS037-200113

Tgt Ion:130 Resp: 4864

Ion Ratio Lower Upper

130 100

95 86.9 0.0 184.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

2500

2000

1500

1000

500

0

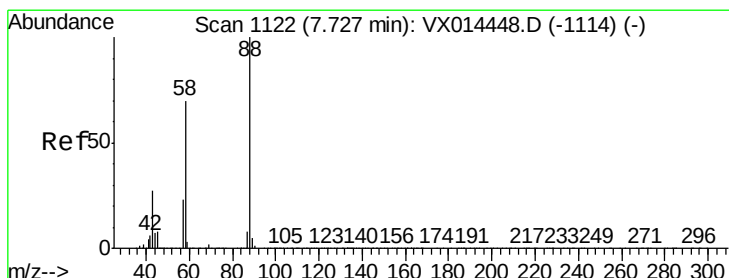
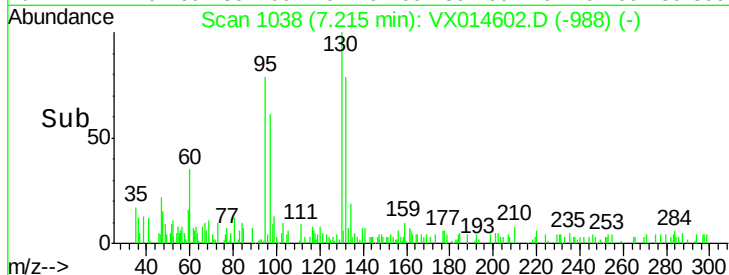
Time-->

7.10

7.15

7.20

7.25



#49

1,4-Dioxane

Concen: 2.593 ug/l

RT: 7.70 min Scan# 1118

Delta R.T. -0.02 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

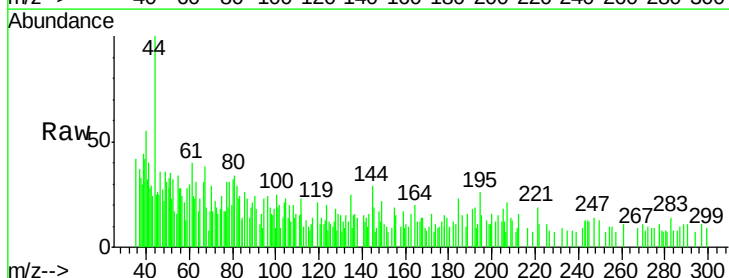
Tgt Ion: 88 Resp: 319

Ion Ratio Lower Upper

88 100

43 86.5 27.4 41.0#

58 160.5 57.1 85.7#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

800

600

400

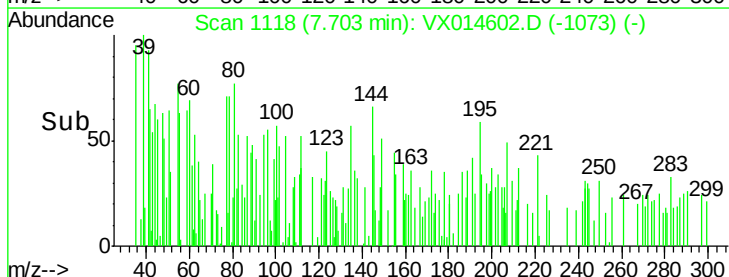
200

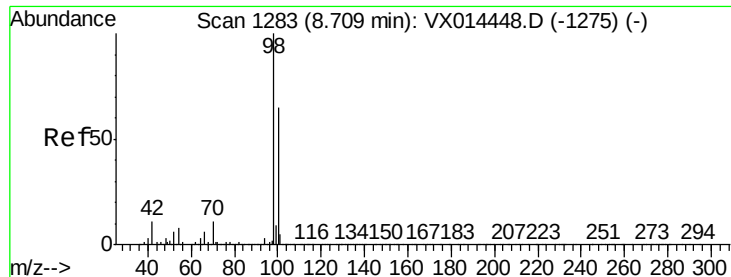
0

Time-->

7.70

7.72

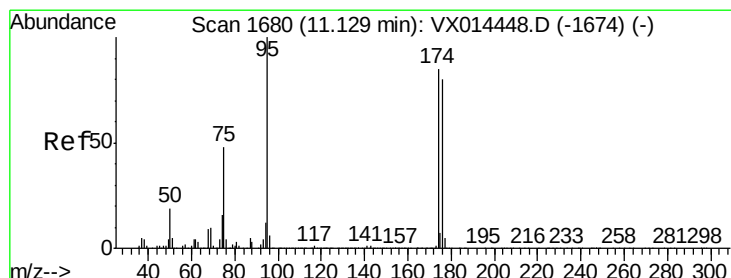
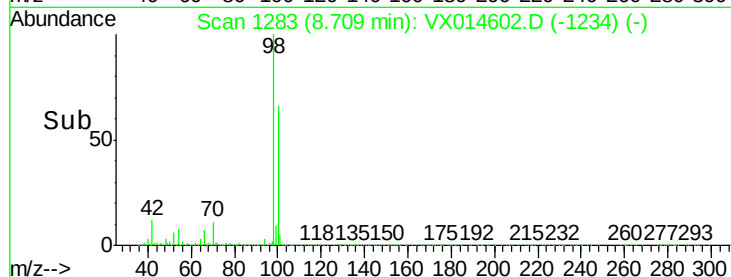
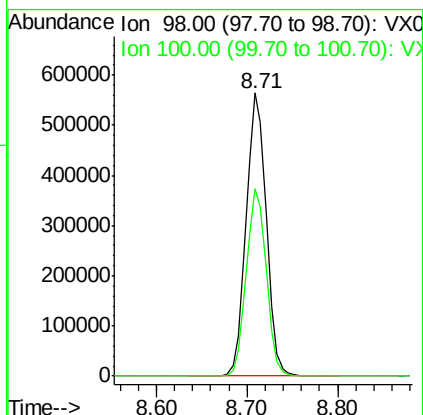
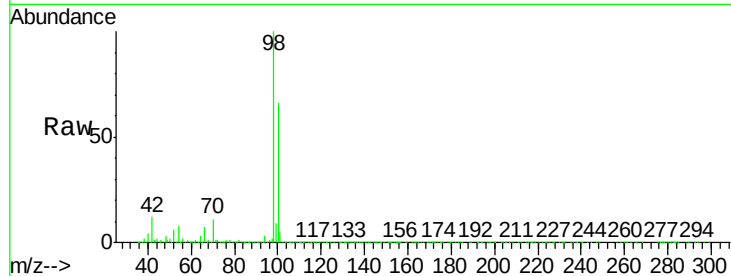




#50
Toluene-d8
Concen: 50.269 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX014602.D
Acq: 14 Jan 2020 12:55

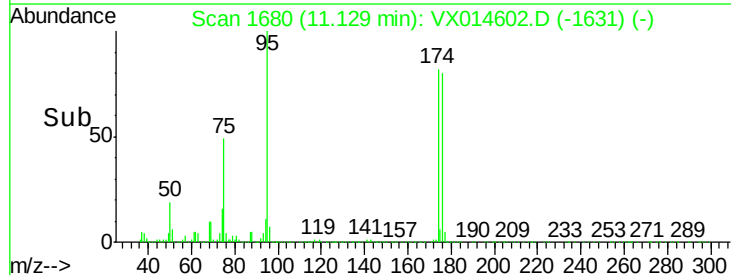
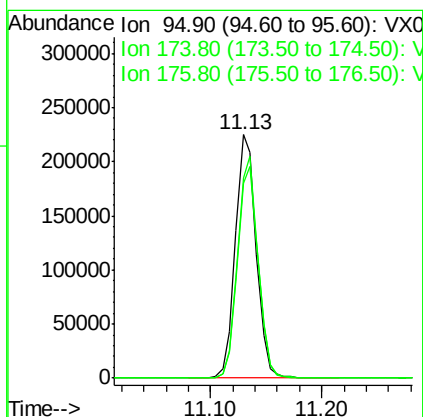
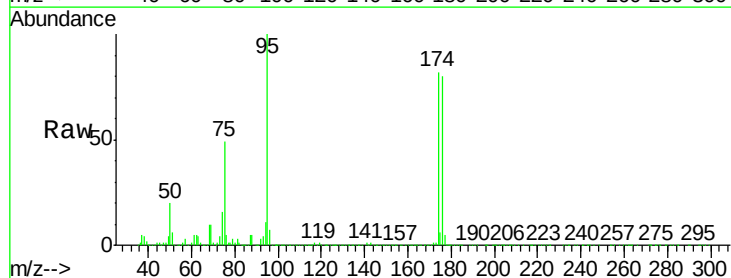
Instrument :
MSVOA_X
ClientSampleId :
KY038PS037-200113

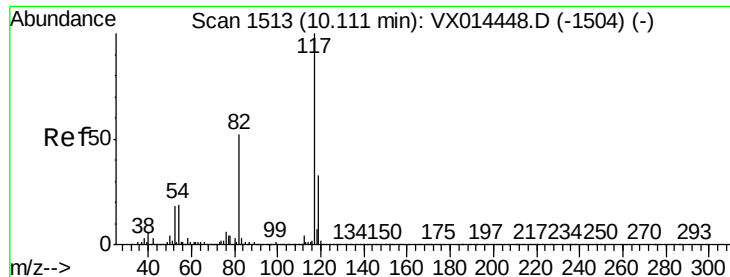
Tgt Ion: 98 Resp: 867456
Ion Ratio Lower Upper
98 100
100 65.9 53.2 79.8



#62
4-Bromofluorobenzene
Concen: 45.756 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX014602.D
Acq: 14 Jan 2020 12:55

Tgt Ion: 95 Resp: 289865
Ion Ratio Lower Upper
95 100
174 89.3 0.0 180.8
176 87.0 0.0 172.8

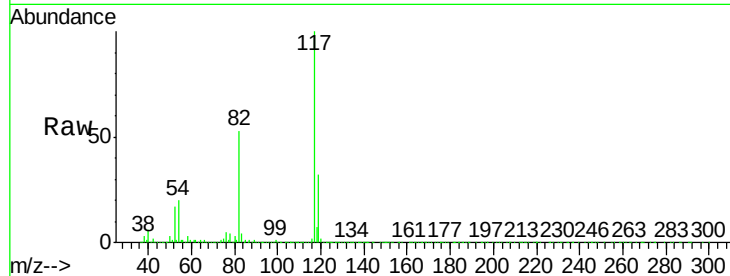




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX014602.D
Acq: 14 Jan 2020 12:55

Instrument :
MSVOA_X
ClientSampleId :
KY038PS037-200113

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.6	41.8	62.6
119	31.9	26.2	39.4

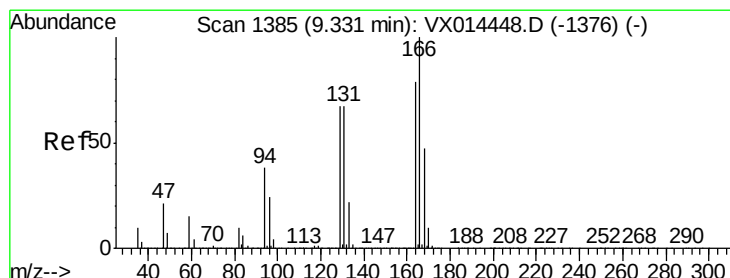
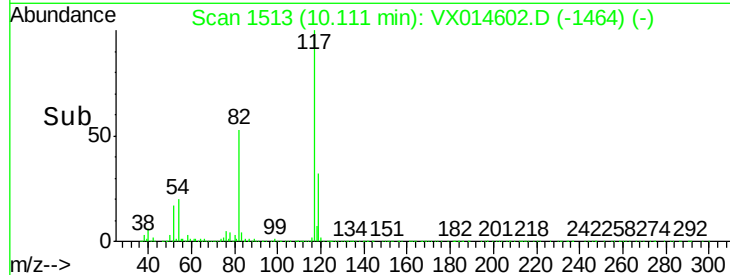
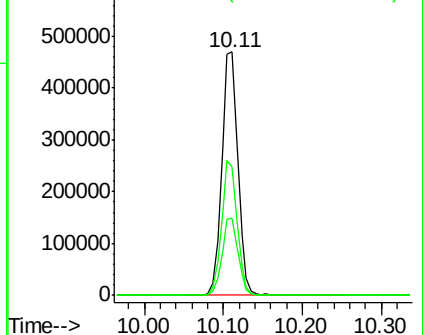


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 0.393 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX014602.D
Acq: 14 Jan 2020 12:55

Tgt Ion	Ratio	Lower	Upper
164	100		
166	107.4	101.2	151.8
129	87.9	68.3	102.5
131	68.0	67.4	101.2

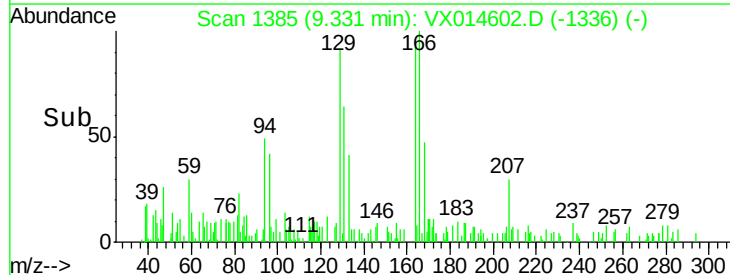
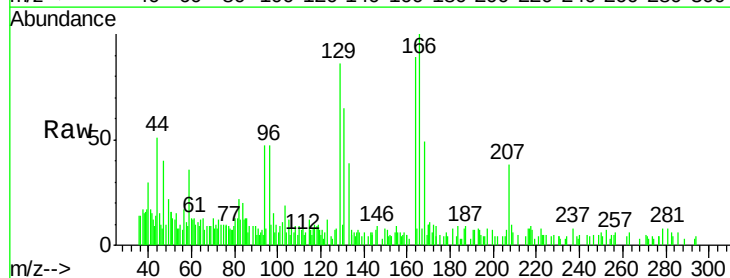
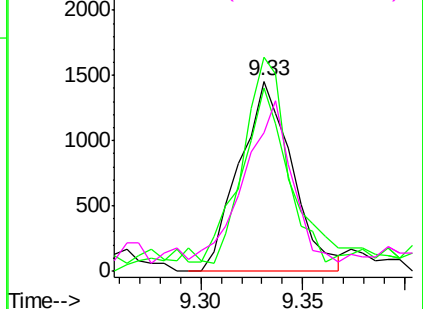
Abundance

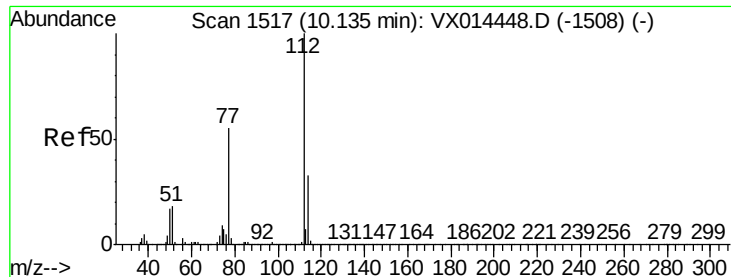
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 0.383 ug/l

RT: 10.13 min Scan# 1516

Delta R.T. -0.01 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

Instrument :

MSVOA_X

ClientSampleId :

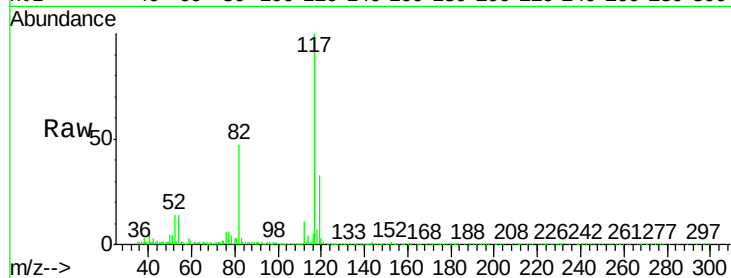
KY038PS037-200113

Tgt Ion:112 Resp: 5506

Ion Ratio Lower Upper

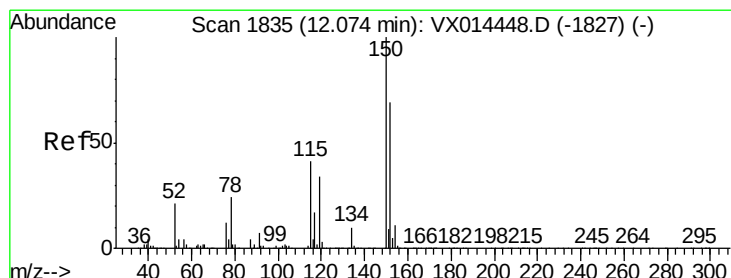
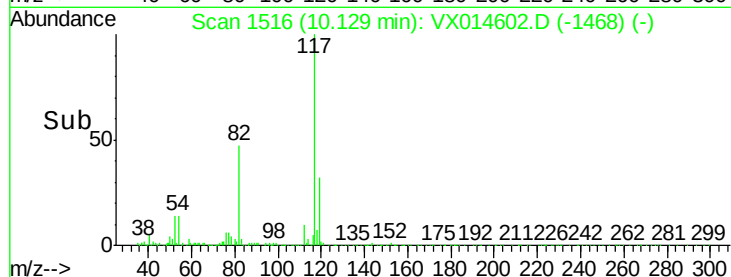
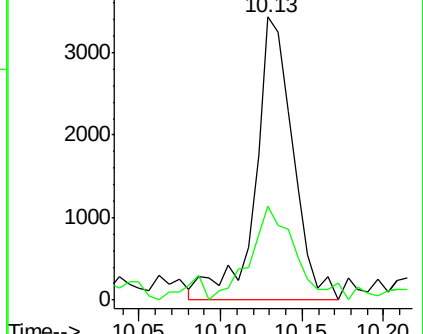
112 100

114 29.0 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

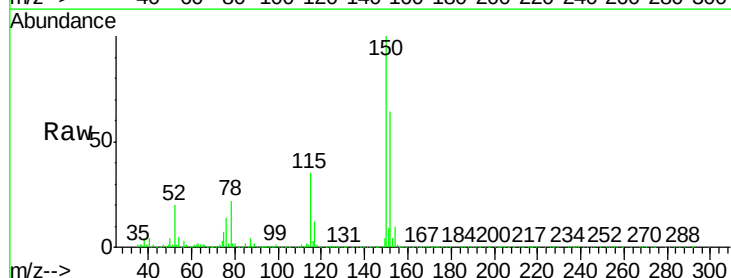
Tgt Ion:152 Resp: 293542

Ion Ratio Lower Upper

152 100

115 55.6 39.5 118.3

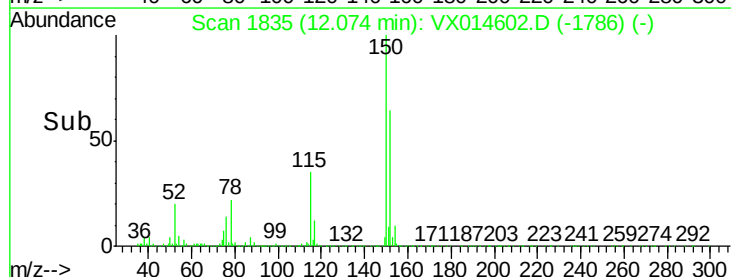
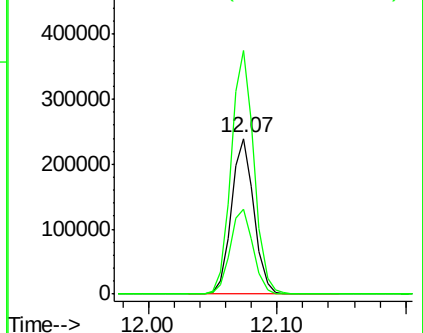
150 157.8 0.0 350.2

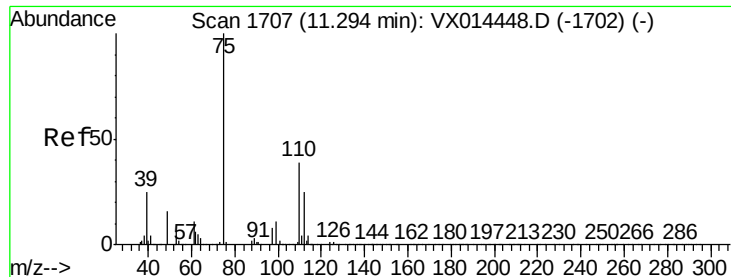


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.463 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

Instrument :

MSVOA_X

ClientSampleId :

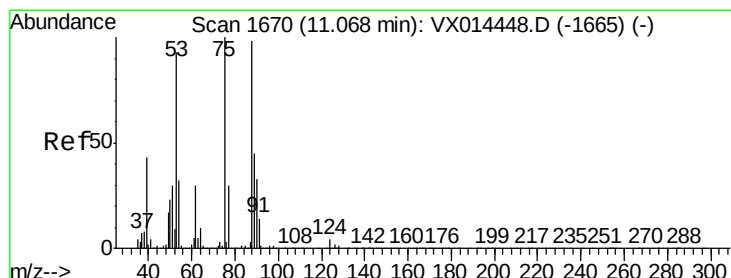
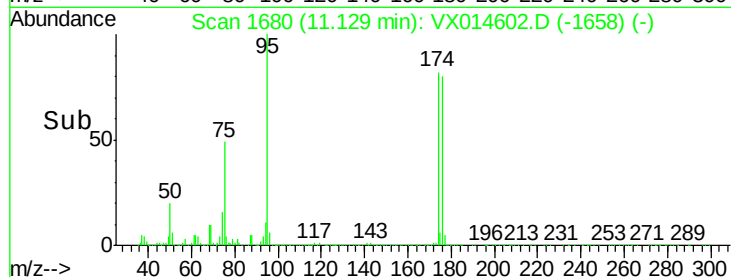
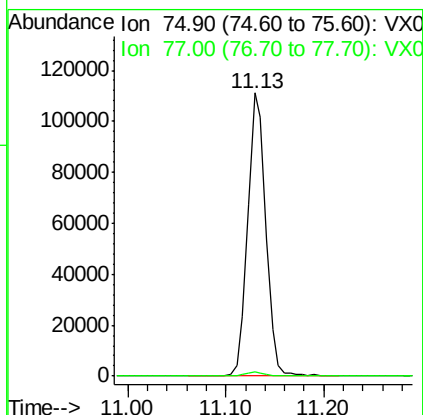
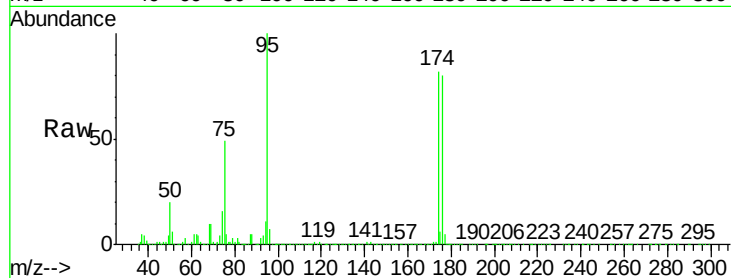
KY038PS037-200113

Tgt Ion: 75 Resp: 142502

Ion Ratio Lower Upper

75 100

77 1.8 21.9 65.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.032 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

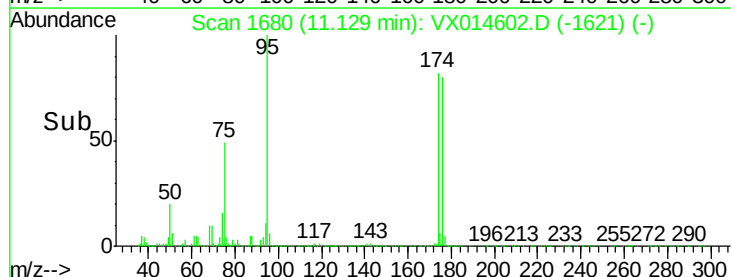
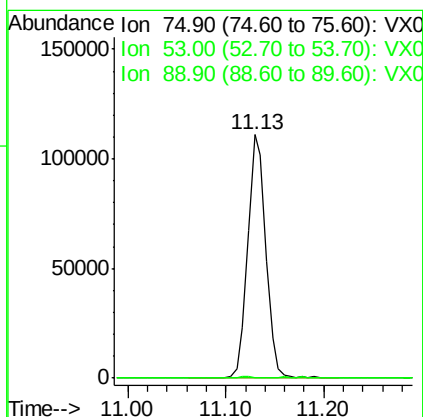
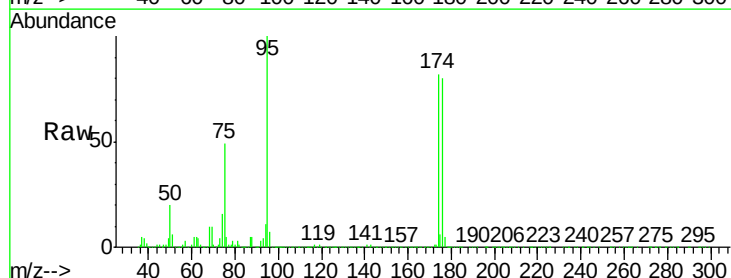
Tgt Ion: 75 Resp: 142502

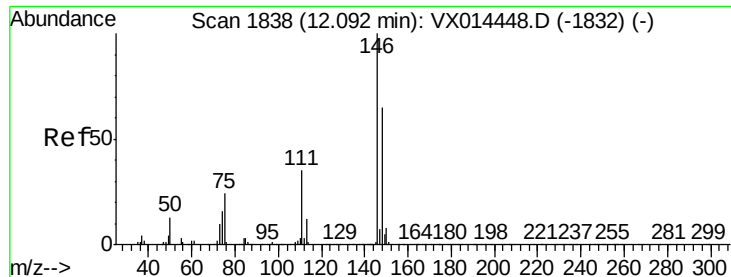
Ion Ratio Lower Upper

75 100

53 0.3 74.8 112.2#

89 0.0 36.3 54.5#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.02 min Scan# 1826

Delta R.T. -0.07 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

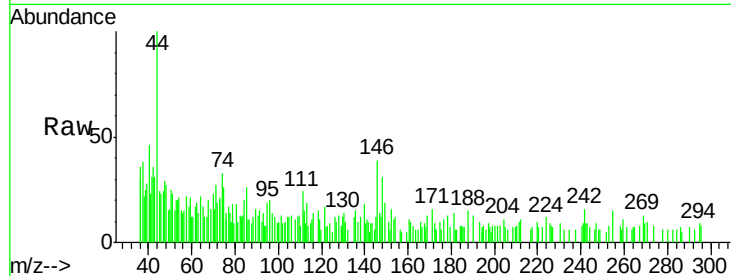
Instrument :

MSVOA_X

ClientSampleId :

KY038PS037-200113

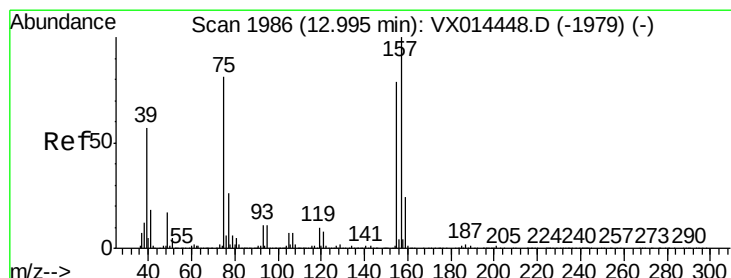
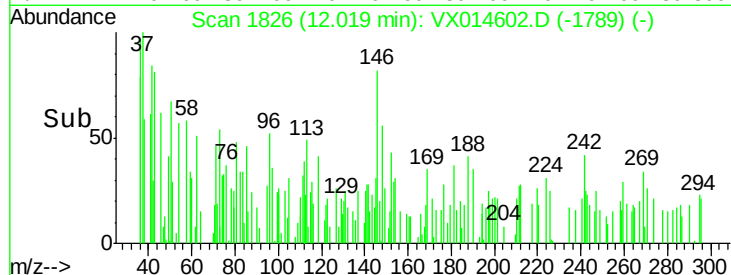
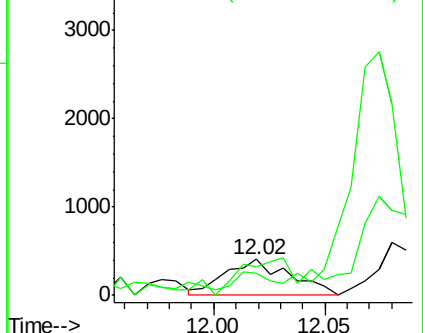
Tgt Ion:	146	Resp:	821
Ion	Ratio	Lower	Upper
146	100		
111	28.7	18.1	54.1
148	95.2	32.1	96.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.306 ug/l

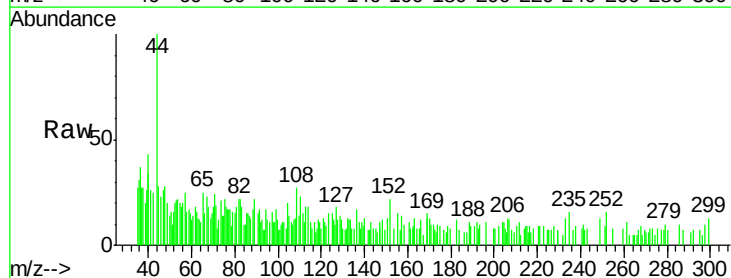
RT: 12.97 min Scan# 1982

Delta R.T. -0.02 min

Lab File: VX014602.D

Acq: 14 Jan 2020 12:55

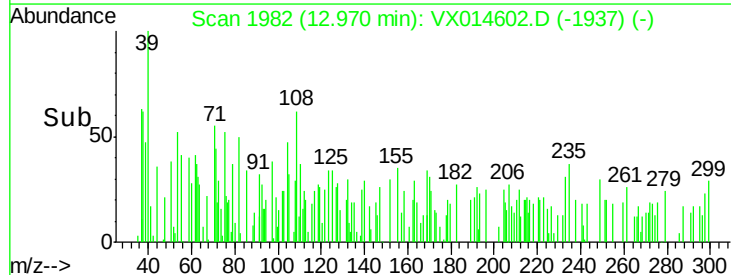
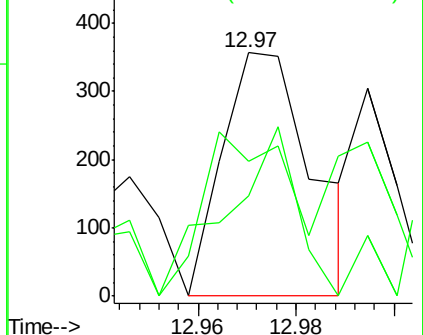
Tgt Ion:	75	Resp:	455
Ion	Ratio	Lower	Upper
75	100		
155	54.3	48.7	146.1
157	64.6	62.0	185.9

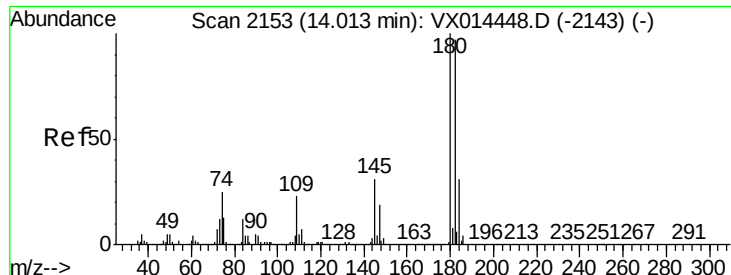


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

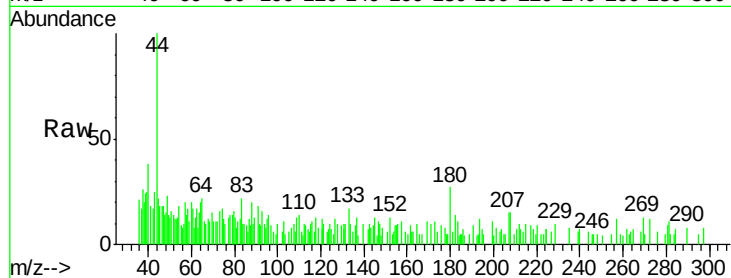




#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.01 min
 Lab File: VX014602.D
 Acq: 14 Jan 2020 12:55

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS037-200113

Tgt Ion	Ratio	Lower	Upper
180	100		
182	165.9	47.9	143.6#
145	31.3	14.8	44.3



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

