

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031919\
 Data File : VX008191.D
 Acq On : 19 Mar 2019 15:11
 Operator : JC/SP
 Sample : K1860-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 20 07:09:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 20 06:51:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	339024	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	546996	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	459481	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	187298	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	233304	45.69	ug/l	0.00
Spiked Amount			Recovery	=	91.38%	
35) Dibromofluoromethane	5.50	113	171307	46.78	ug/l	0.00
Spiked Amount			Recovery	=	93.56%	
50) Toluene-d8	8.71	98	673043	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
62) 4-Bromofluorobenzene	11.13	95	217689	45.54	ug/l	0.00
Spiked Amount			Recovery	=	91.08%	

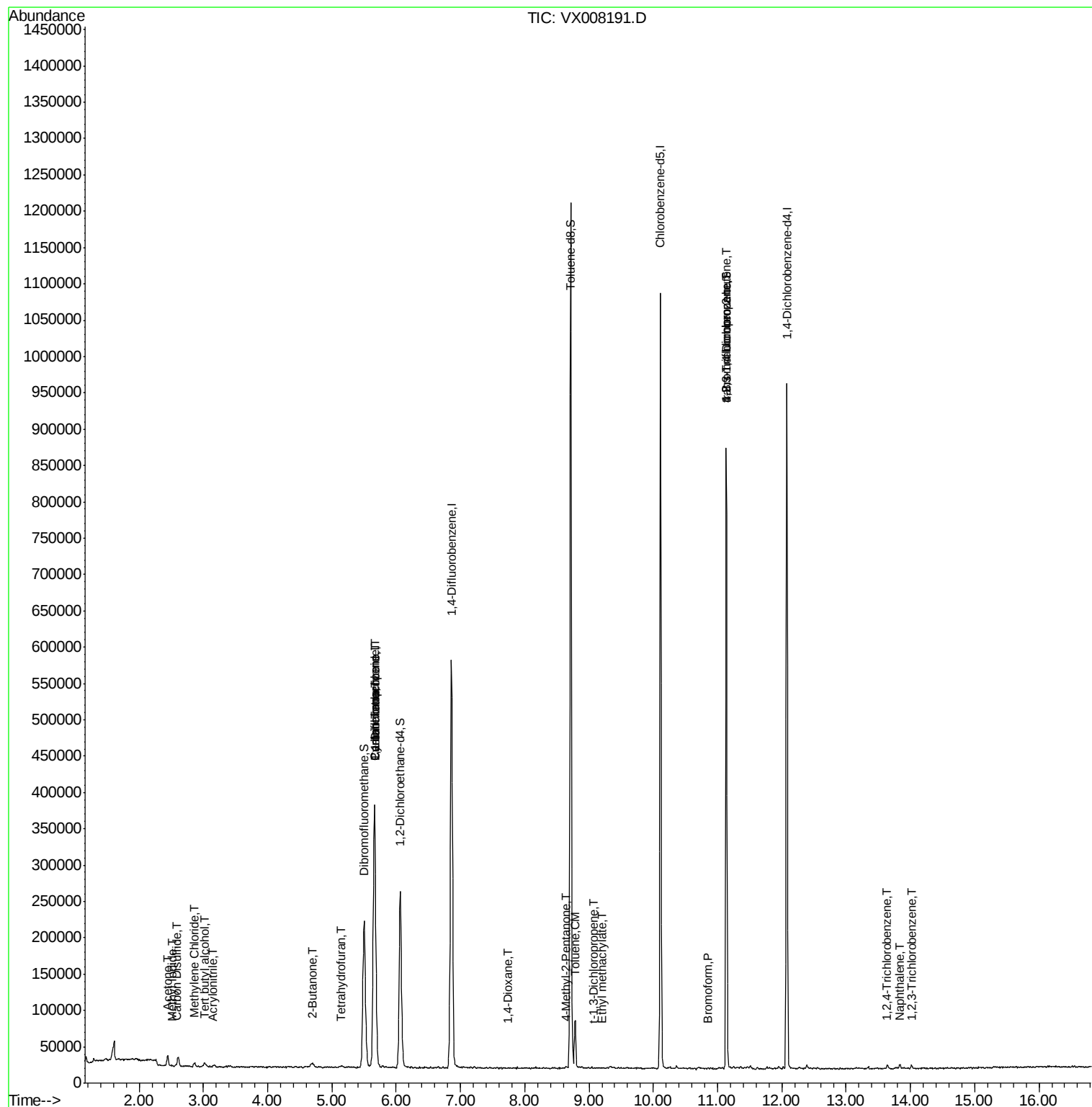
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.52	142	1212	0.218	ug/l #	77
11) Tert butyl alcohol	3.02	59	4310	3.943	ug/l #	86
13) Acrolein	2.29	56	142	Below Cal	#	13
15) Acrylonitrile	3.15	53	969	0.335	ug/l	93
16) Acetone	2.45	43	16754	5.785	ug/l	98
17) Carbon Disulfide	2.57	76	4237	0.987	ug/l #	95
20) Methylene Chloride	2.87	84	2897	0.600	ug/l #	77
25) 2-Butanone	4.69	43	3378	0.790	ug/l #	87
29) Tetrahydrofuran	5.15	42	1696	0.635	ug/l #	68
31) Cyclohexane	5.67	56	7066	0.834	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	27505	4.319	ug/l #	50
38) Carbon Tetrachloride	5.67	117	33094	5.832	ug/l #	17
49) 1,4-Dioxane	7.73	88	85	0.751	ug/l #	1
51) 4-Methyl-2-Pentanone	8.65	43	1944	0.249	ug/l #	59
52) Toluene	8.78	92	24467	2.188	ug/l	95
53) t-1,3-Dichloropropene	9.06	75	594	1.498	ug/l #	75
56) Ethyl methacrylate	9.20	69	367	0.572	ug/l #	48
71) Bromoform	10.86	173	151	2.245	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	112697	21.393	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	112697	54.406	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.64	180	1196	0.250	ug/l	88
95) Naphthalene	13.83	128	3711	0.245	ug/l #	93
96) 1,2,3-Trichlorobenzene	14.02	180	1125	0.239	ug/l	88

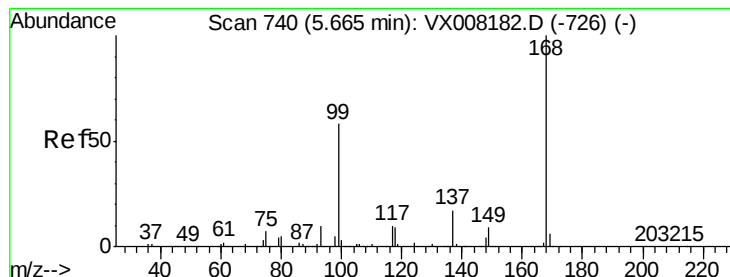
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 19 Mar 2019 15:11
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Quant Time: Mar 20 07:09:42 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 20 06:51:58 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

Instrument :

MSVOA_X

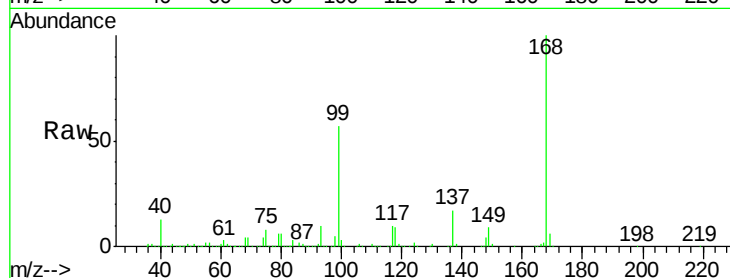
ClientSampleId :

Tot Ion:168 Resp: 339024

Ion Ratio Lower Upper

168 100

99 56.9 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

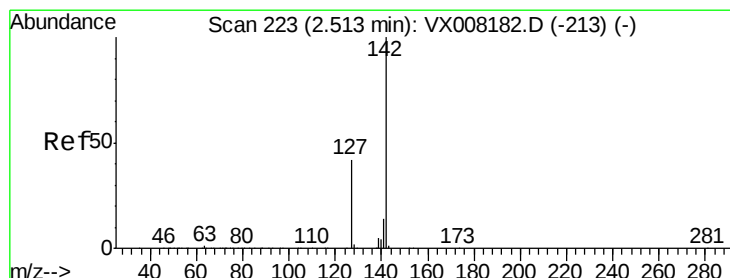
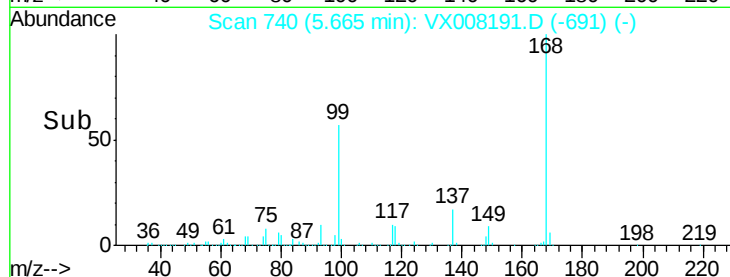
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#10

Methyl Iodide

Concen: 0.218 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

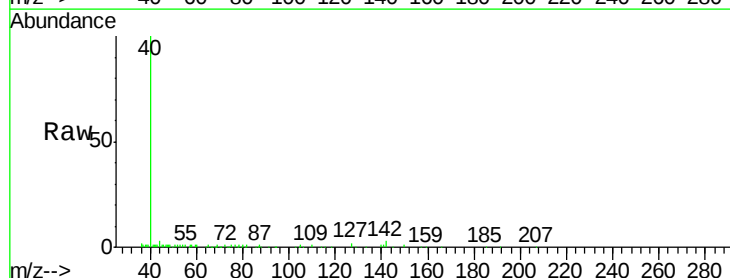
Tgt Ion:142 Resp: 1212

Ion Ratio Lower Upper

142 100

127 57.0 32.1 48.1#

141 10.1 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.52

600

500

400

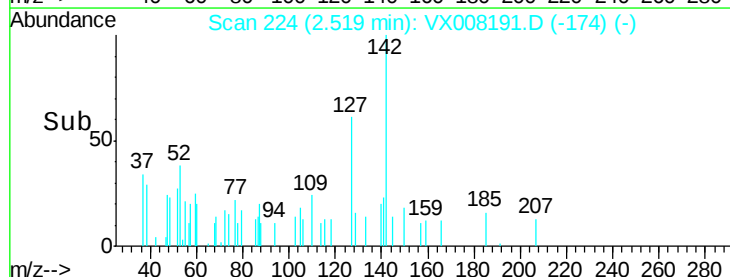
300

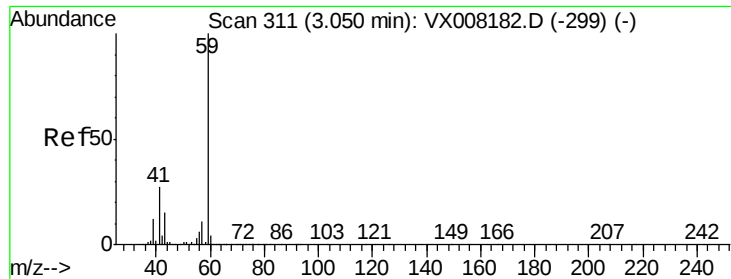
200

100

0

Time--> 2.45 2.50 2.55 2.60

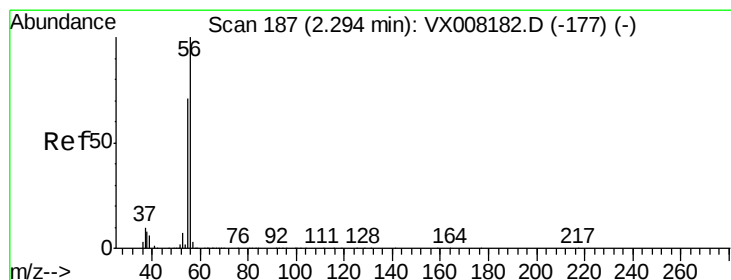
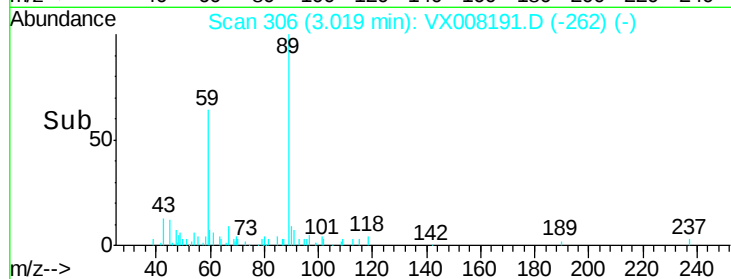
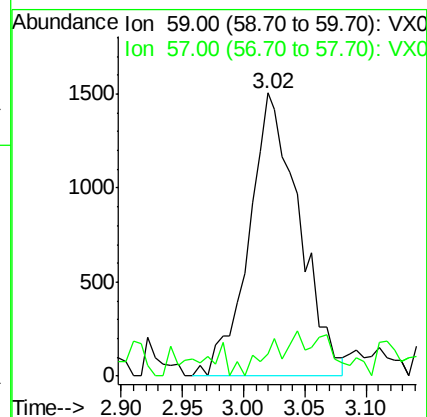
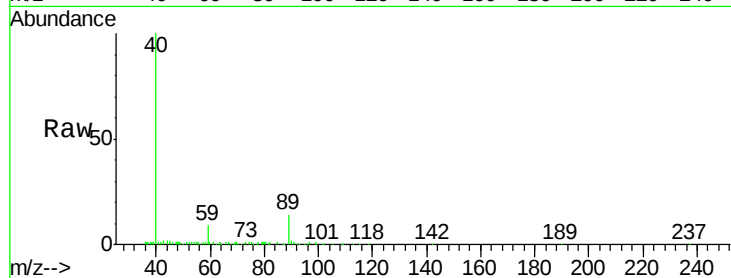




#11
Tert butyl alcohol
Concen: 3.943 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX008191.D
Acq: 19 Mar 2019 15:11

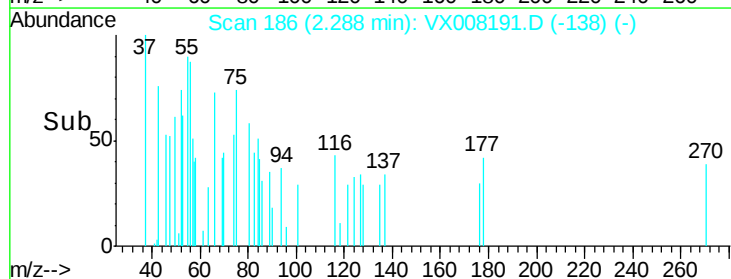
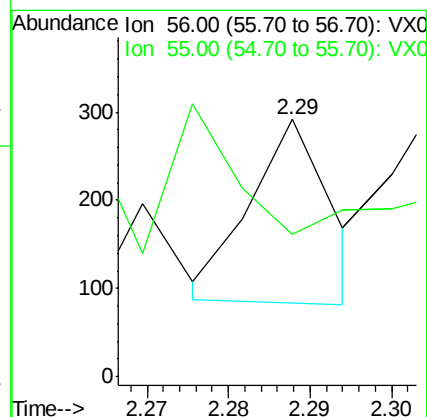
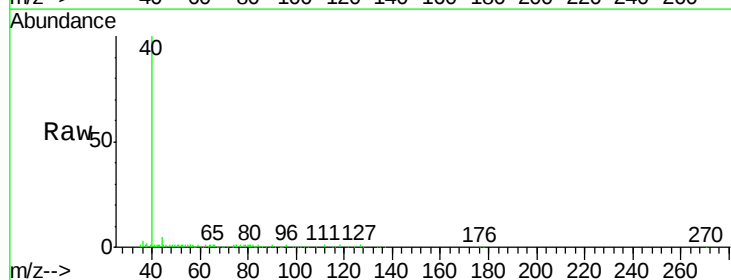
Instrument :
MSVOA_X
ClientSampleId :

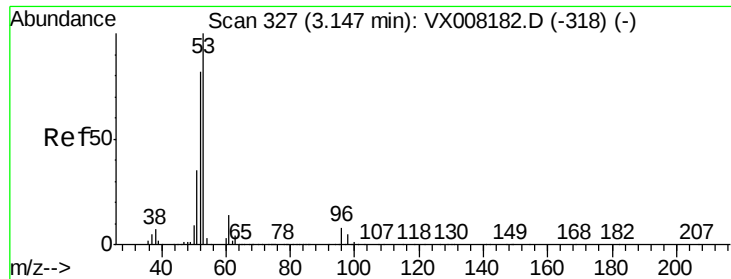
Tot Ion: 59 Resp: 4310
Ion Ratio Lower Upper
59 100
57 5.1 8.2 12.2#



#13
Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX008191.D
Acq: 19 Mar 2019 15:11

Tgt Ion: 56 Resp: 142
Ion Ratio Lower Upper
56 100
55 0.0 57.8 86.6#





#15

Acrylonitrile

Concen: 0.335 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

Instrument :

MSVOA_X

ClientSampleId :

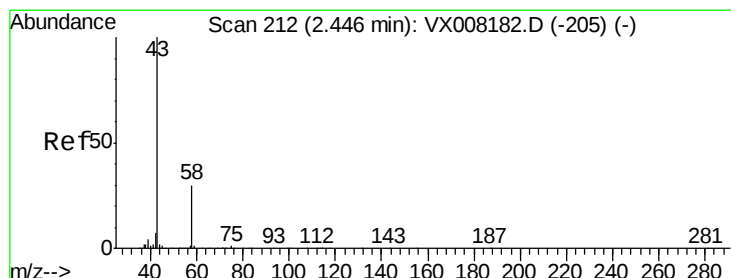
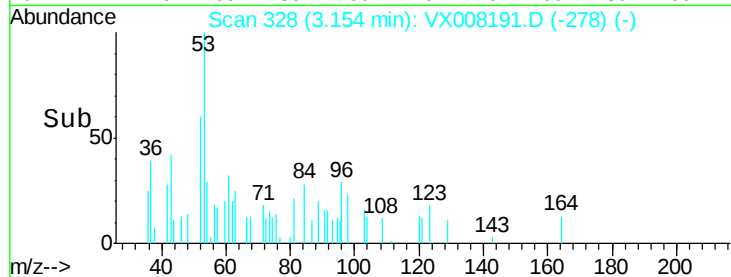
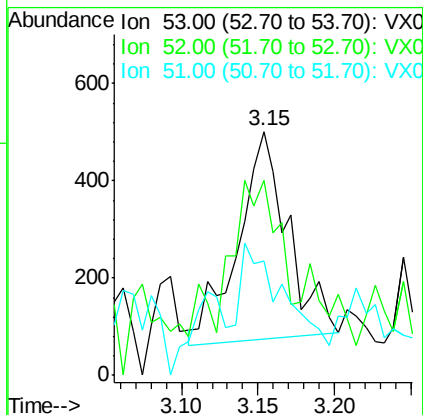
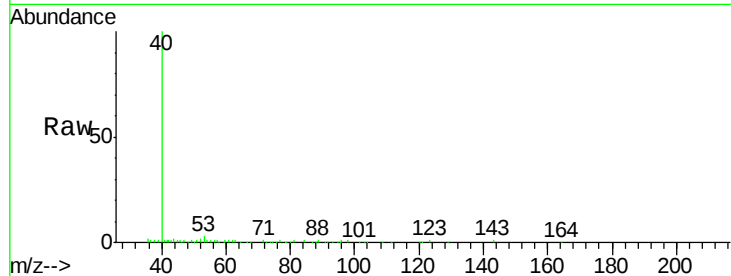
Tot Ion: 53 Resp: 969

Ion Ratio Lower Upper

53 100

52 76.4 66.0 99.0

51 39.1 28.0 42.0



#16

Acetone

Concen: 5.785 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX008191.D

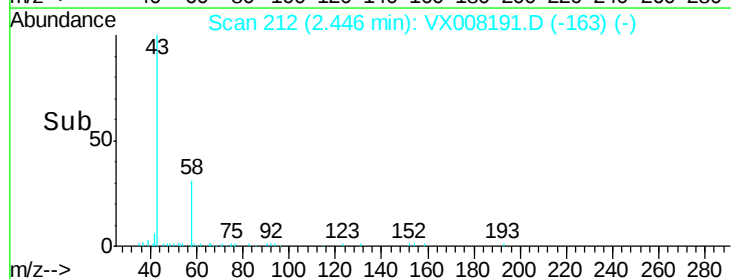
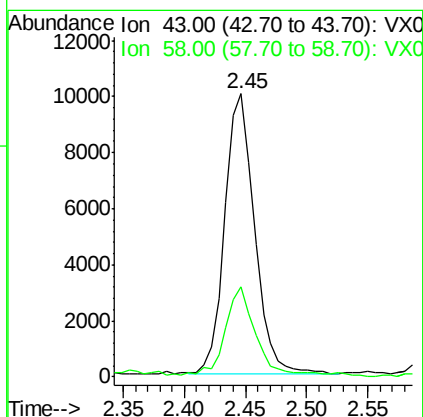
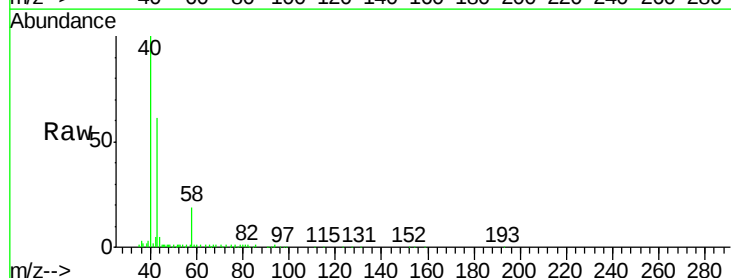
Acq: 19 Mar 2019 15:11

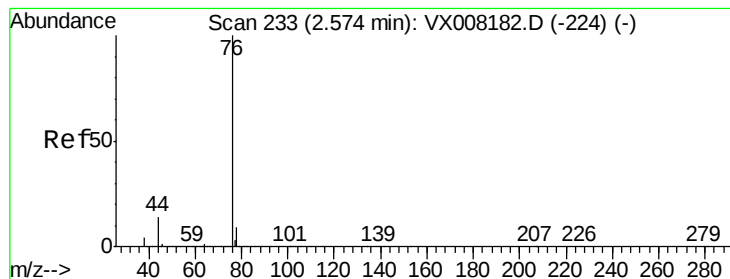
Tgt Ion: 43 Resp: 16754

Ion Ratio Lower Upper

43 100

58 30.7 25.5 38.3





#17

Carbon Disulfide

Concen: 0.987 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

Instrument :

MSVOA_X

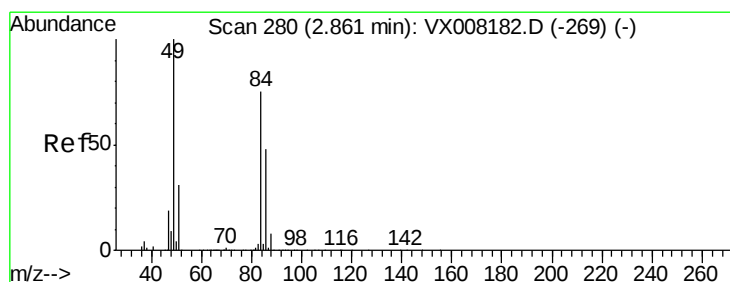
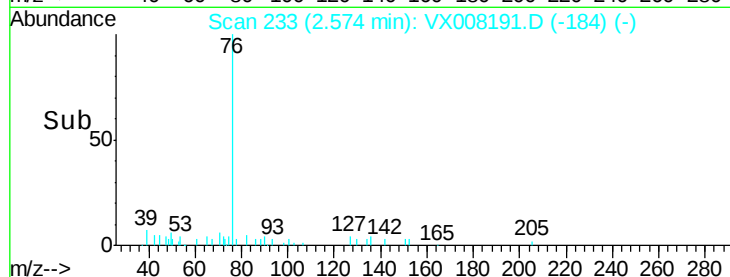
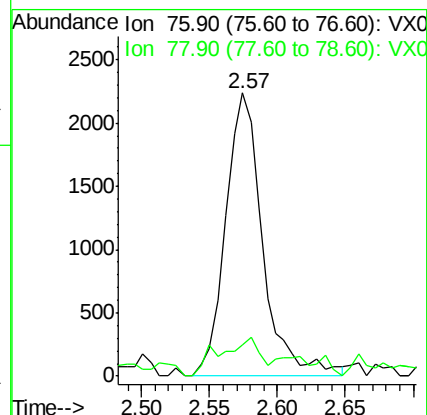
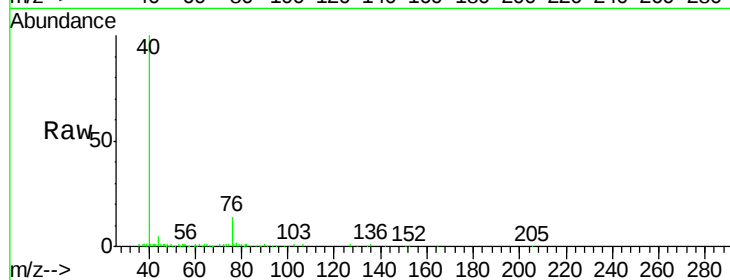
ClientSampleId :

Tot Ion: 76 Resp: 4237

Ion Ratio Lower Upper

76 100

78 10.9 7.2 10.8#



#20

Methylene Chloride

Concen: 0.600 ug/l

RT: 2.87 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

Tgt Ion: 84 Resp: 2897

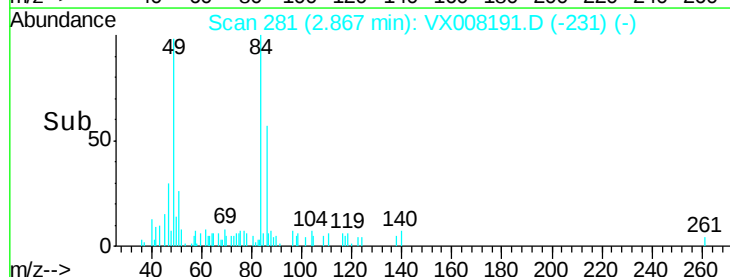
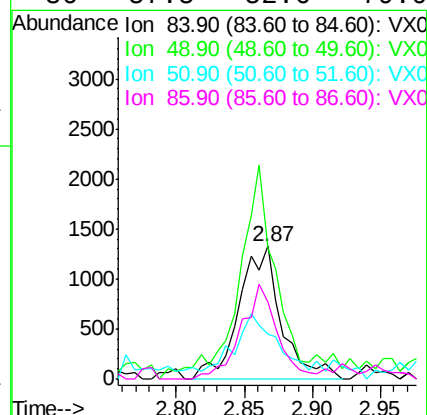
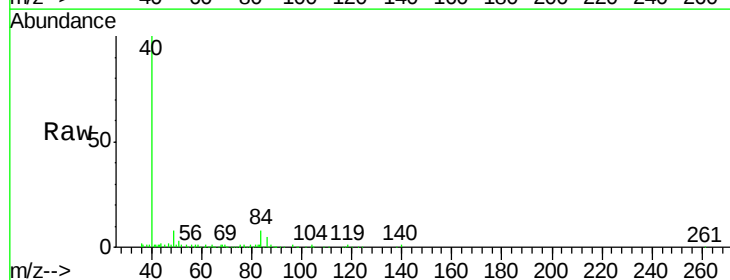
Ion Ratio Lower Upper

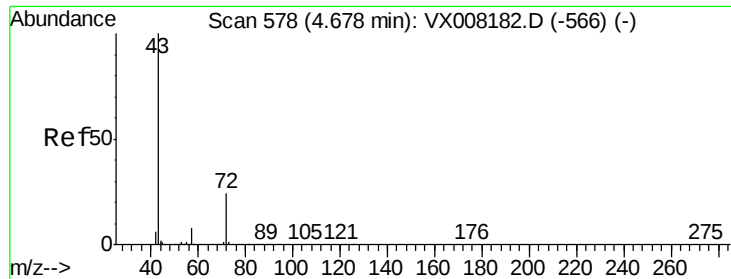
84 100

49 90.4 99.3 148.9#

51 25.5 31.3 46.9#

86 57.5 52.6 79.0





#25

2-Butanone

Concen: 0.790 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.01 min

Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

Instrument :

MSVOA_X

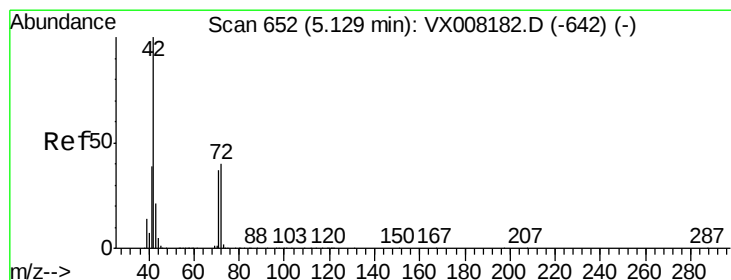
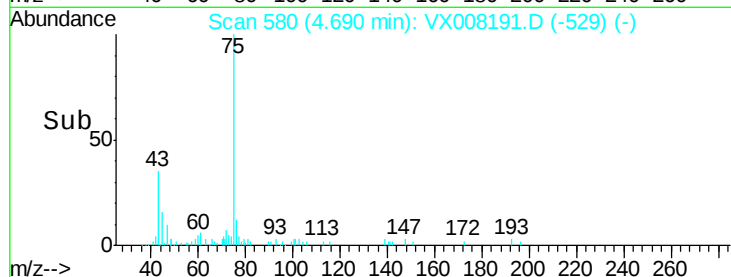
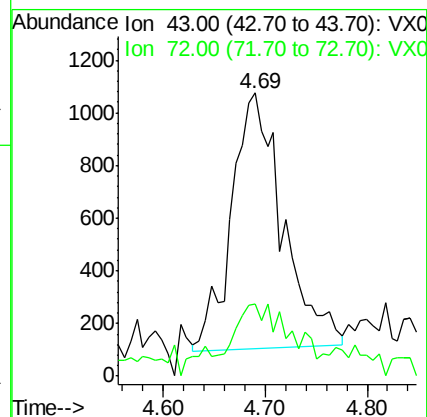
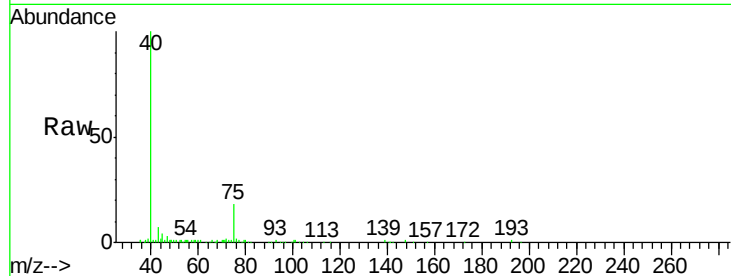
ClientSampleId :

Tot Ion: 43 Resp: 3378

Ion Ratio Lower Upper

43 100

72 18.2 19.9 29.9#



#29

Tetrahydrofuran

Concen: 0.635 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

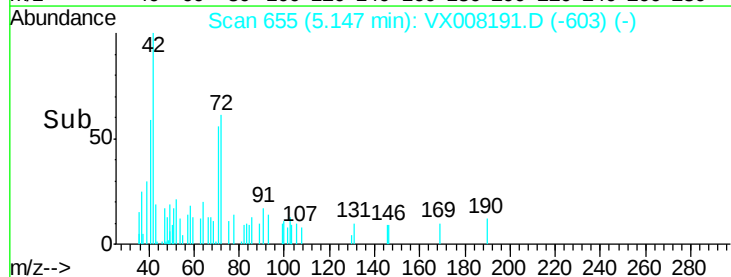
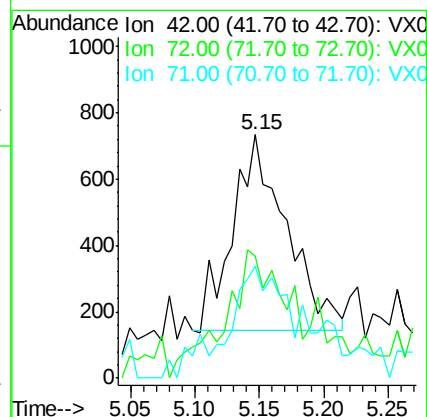
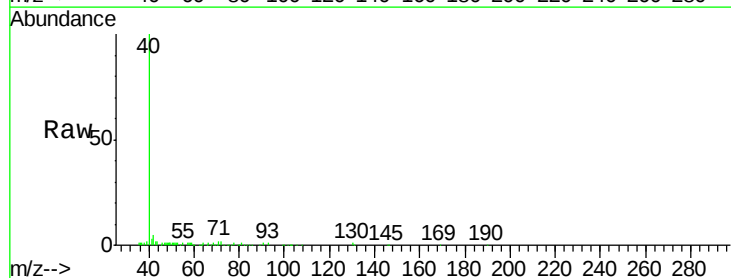
Tgt Ion: 42 Resp: 1696

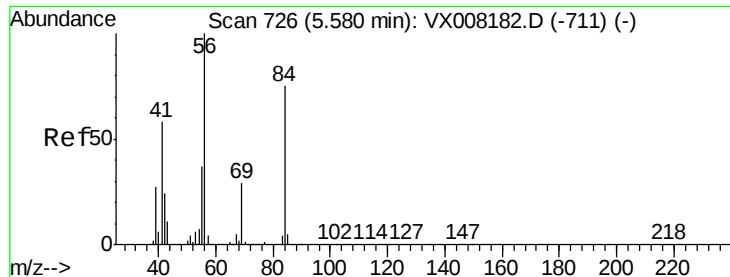
Ion Ratio Lower Upper

42 100

72 76.9 33.8 50.6#

71 43.6 31.5 47.3

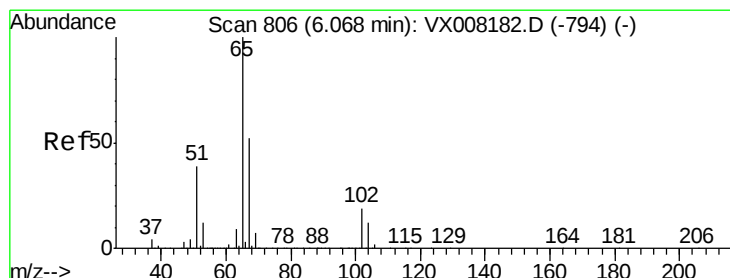
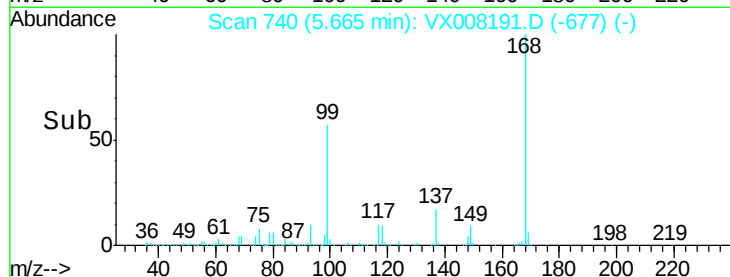
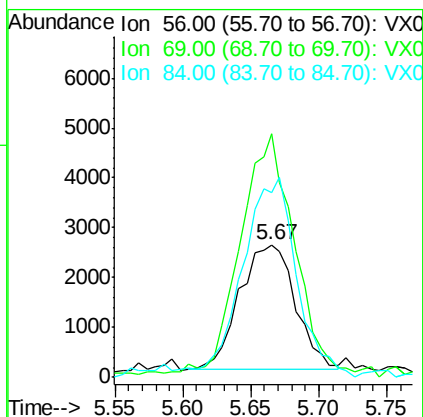
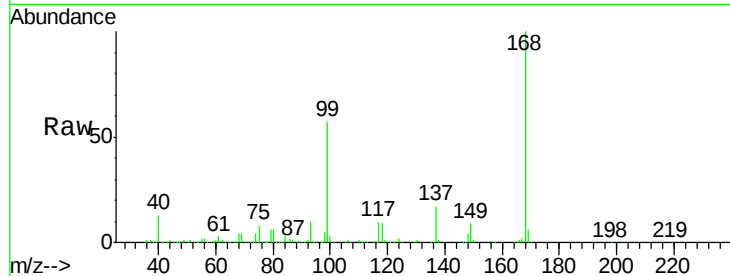




#31
Cyclohexane
Concen: 0.834 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008191.D
Acq: 19 Mar 2019 15:11

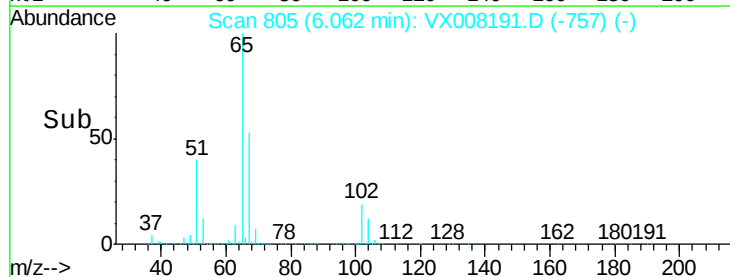
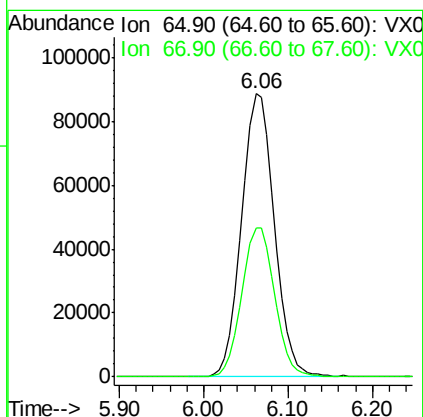
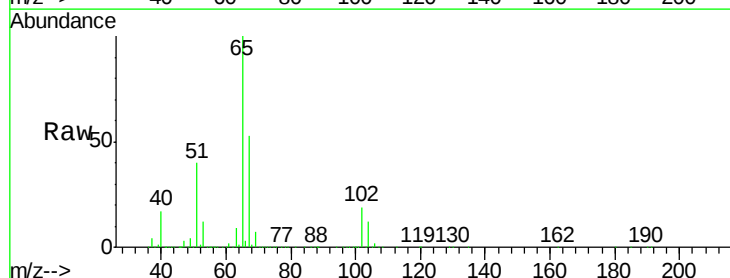
Instrument :
MSVOA_X
ClientSampleId :

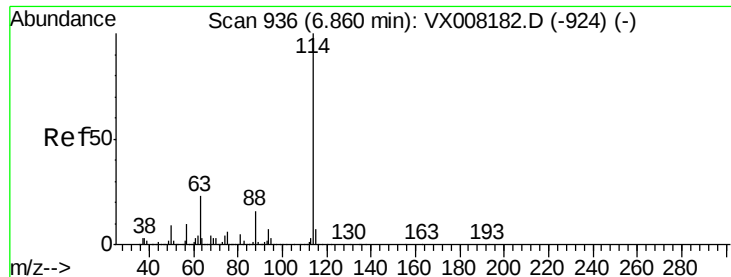
Tot Ion: 56 Resp: 7066
Ion Ratio Lower Upper
56 100
69 188.9 24.0 36.0#
84 141.8 65.3 97.9#



#33
1,2-Dichloroethane-d4
Concen: 45.692 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX008191.D
Acq: 19 Mar 2019 15:11

Tgt Ion: 65 Resp: 233304
Ion Ratio Lower Upper
65 100
67 53.1 0.0 110.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

Instrument :

MSVOA_X

ClientSampleId :

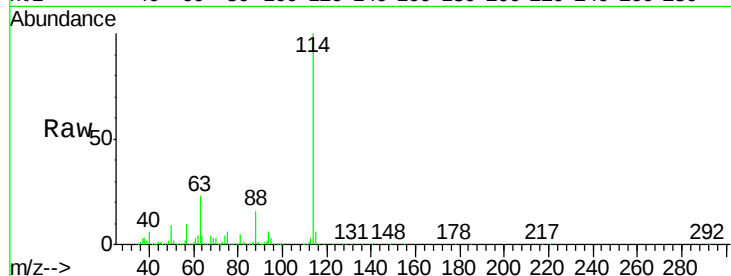
Tot Ion:114 Resp: 546996

Ion Ratio Lower Upper

114 100

63 23.0 0.0 39.8

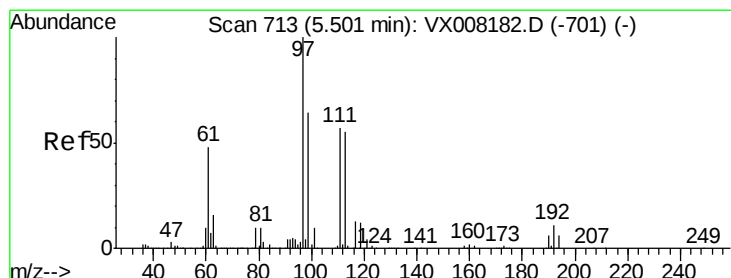
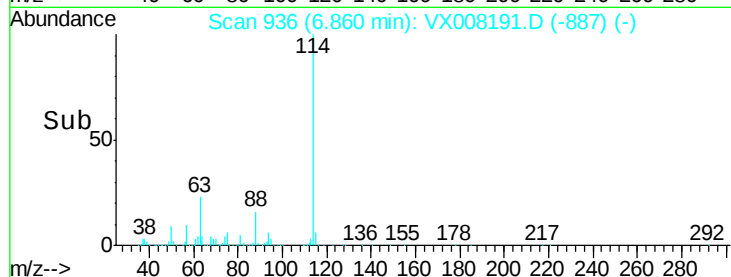
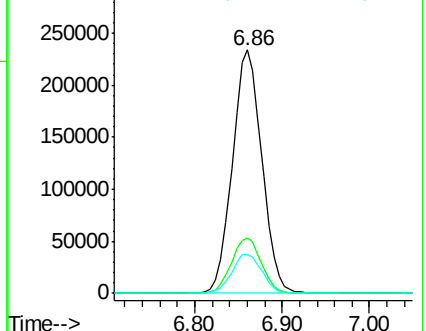
88 15.9 0.0 31.4



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: 46.782 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

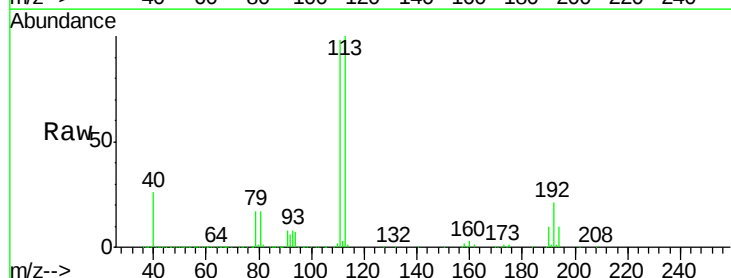
Tgt Ion:113 Resp: 171307

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

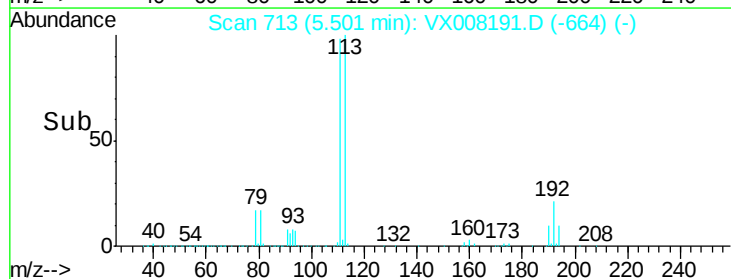
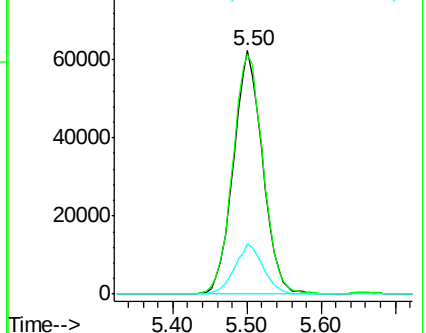
192 20.1 19.4 29.0

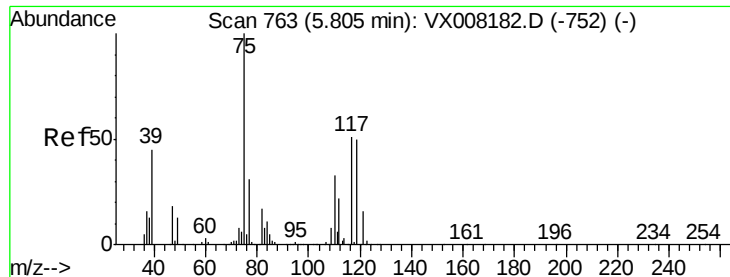


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

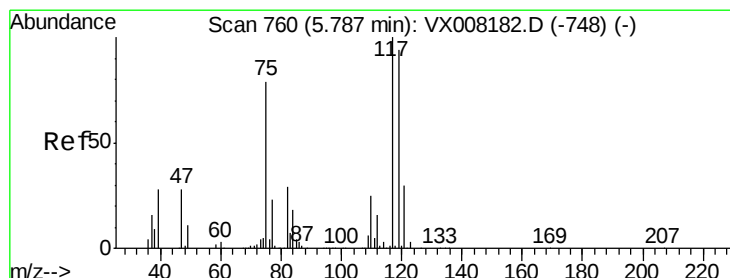
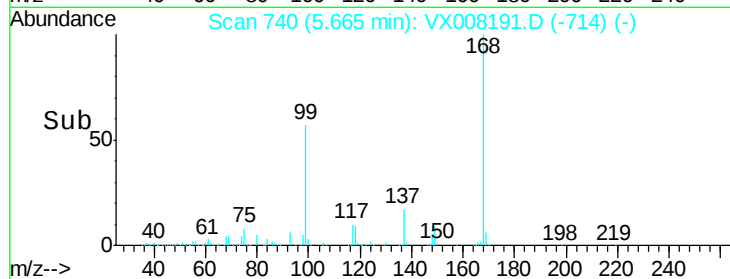
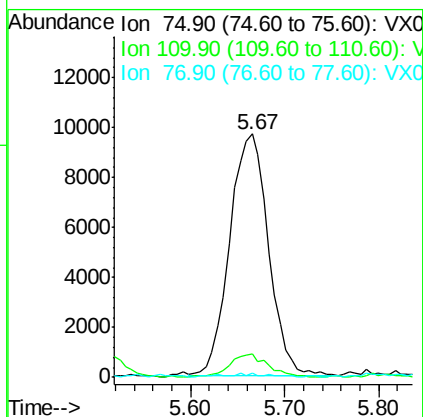
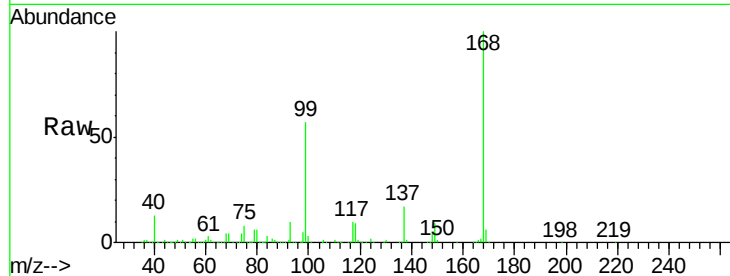




#36
 1,1-Dichloropropene
 Concen: 4.319 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.14 min
 Lab File: VX008191.D
 Acq: 19 Mar 2019 15:11

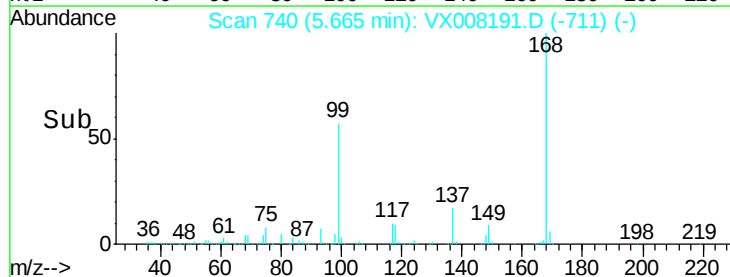
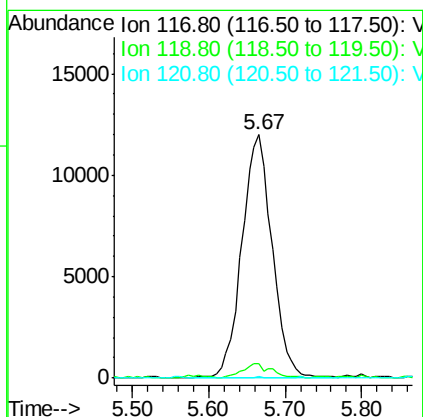
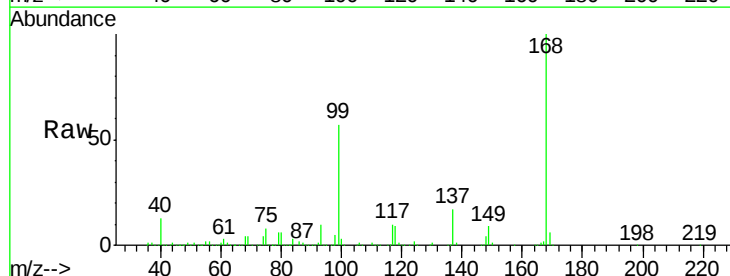
Instrument :
 MSVOA_X
 ClientSampleId :

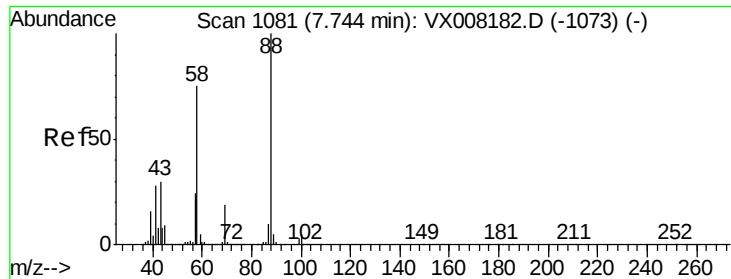
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.8	18.4	55.0#
77	0.4	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.832 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX008191.D
 Acq: 19 Mar 2019 15:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	76.2	114.2#
121	0.4	24.6	36.8#





#49

1,4-Dioxane

Concen: 0.751 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.01 min

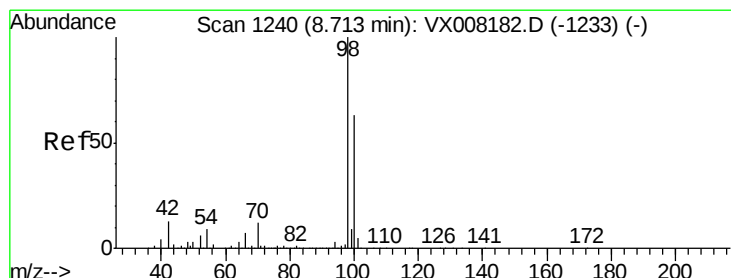
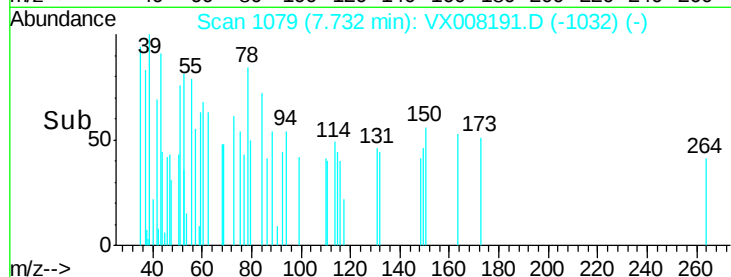
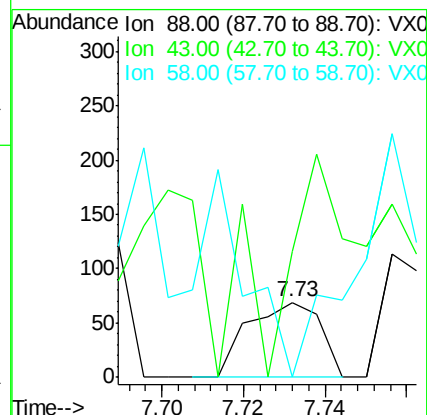
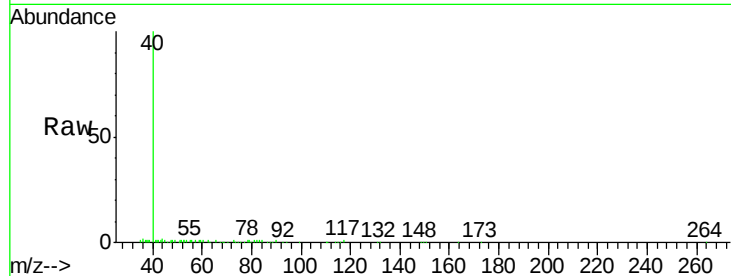
Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 85

Ion	Ratio	Lower	Upper
88	100		
43	244.7	25.1	37.7#
58	0.0	57.8	86.6#



#50

Toluene-d8

Concen: 48.479 ug/l

RT: 8.71 min Scan# 1240

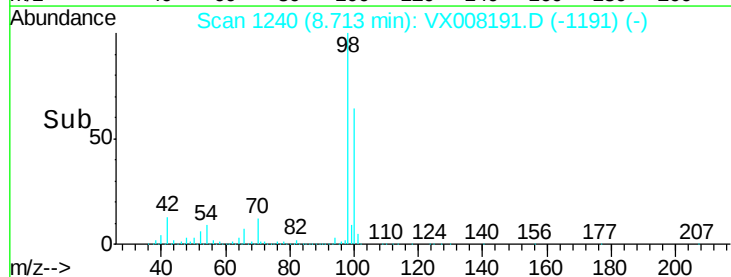
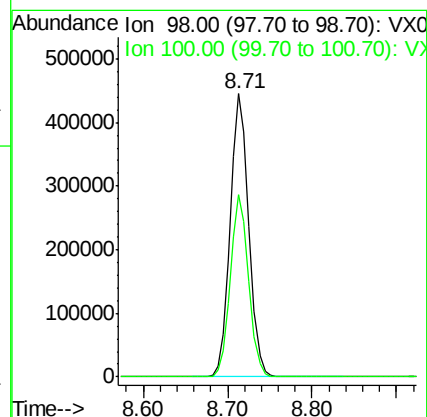
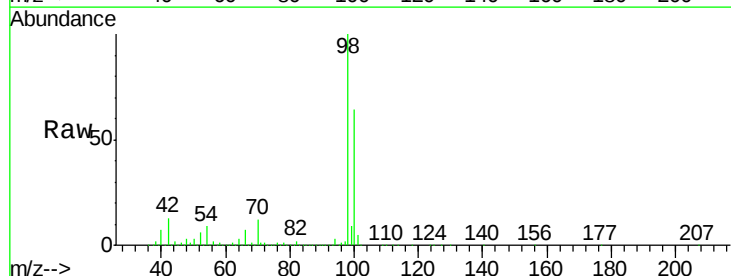
Delta R.T. 0.00 min

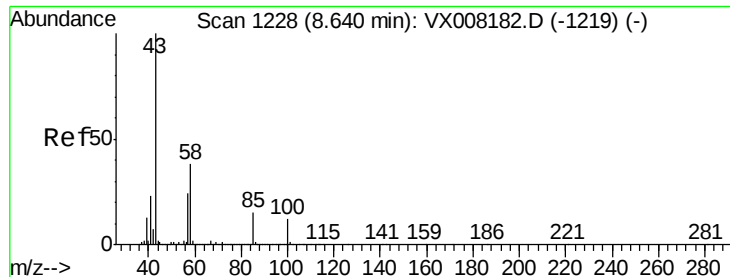
Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

Tgt Ion: 98 Resp: 673043

Ion	Ratio	Lower	Upper
98	100		
100	63.3	51.7	77.5

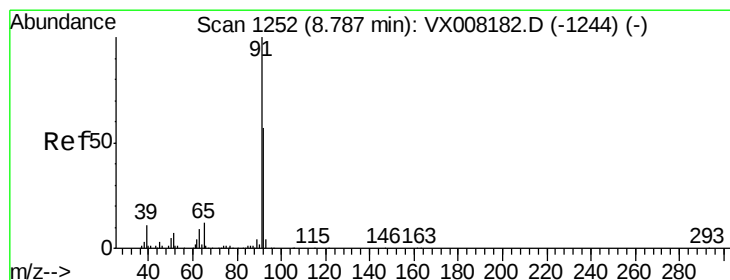
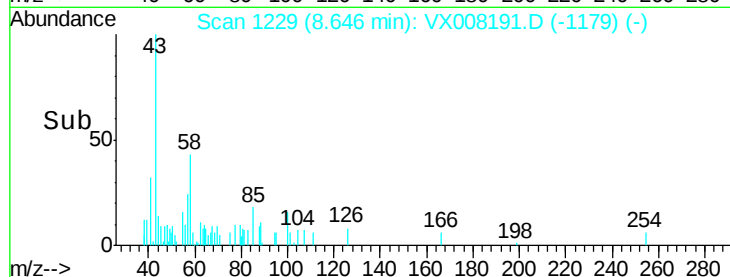
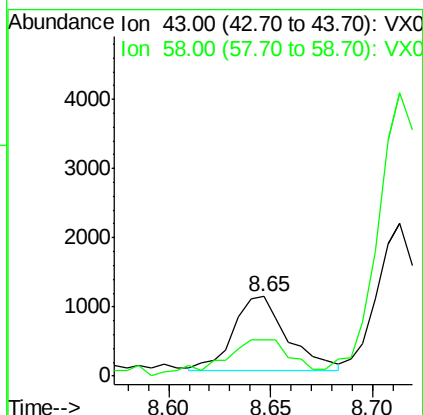
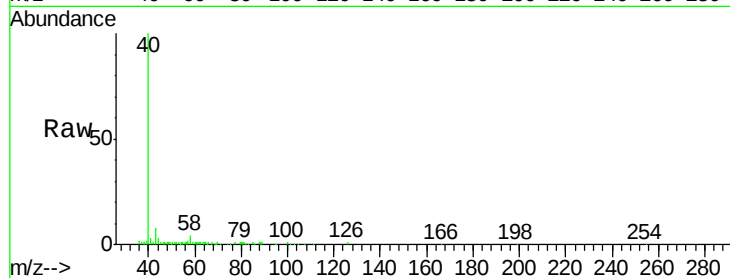




#51
 4-Methyl-2-Pentanone
 Concen: 0.249 ug/l
 RT: 8.65 min Scan# 1229
 Delta R.T. 0.01 min
 Lab File: VX008191.D
 Acq: 19 Mar 2019 15:11

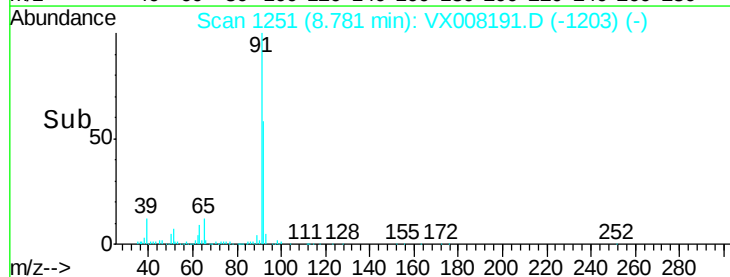
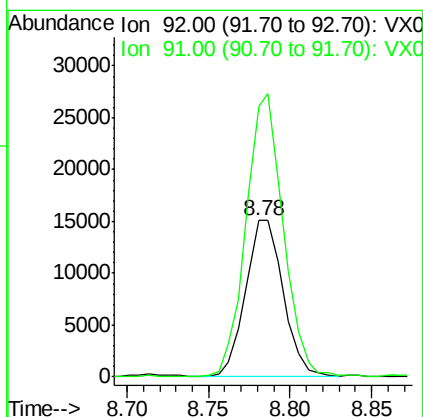
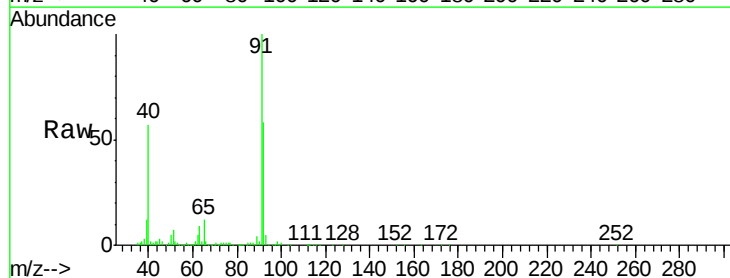
Instrument :
 MSVOA_X
 ClientSampleId :

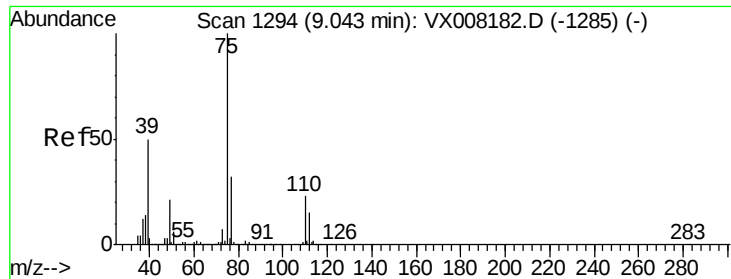
Tot Ion: 43 Resp: 1944
 Ion Ratio Lower Upper
 43 100
 58 64.4 31.3 46.9#



#52
 Toluene
 Concen: 2.188 ug/l
 RT: 8.78 min Scan# 1251
 Delta R.T. -0.01 min
 Lab File: VX008191.D
 Acq: 19 Mar 2019 15:11

Tgt Ion: 92 Resp: 24467
 Ion Ratio Lower Upper
 92 100
 91 178.1 137.4 206.0





#53

t-1,3-Dichloropropene

Concen: 1.498 ug/l

RT: 9.06 min Scan# 1297

Delta R.T. 0.02 min

Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

Instrument :

MSVOA_X

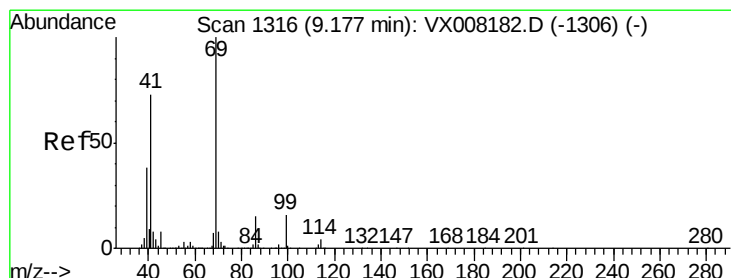
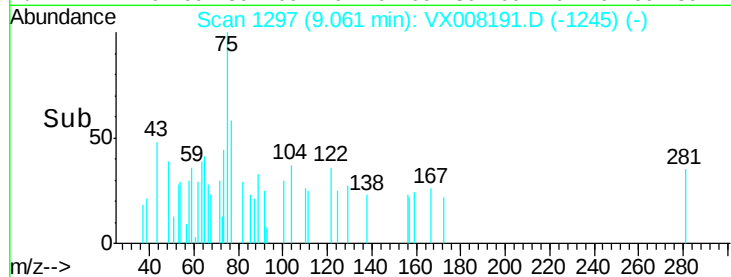
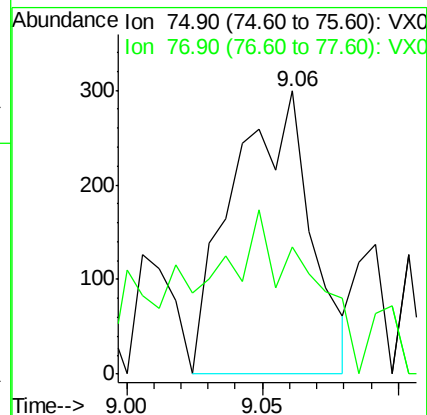
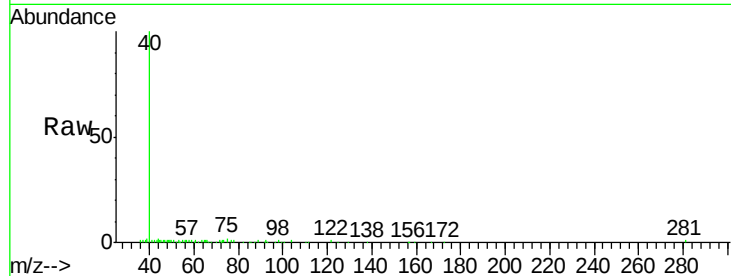
ClientSampled :

Tot Ion: 75 Resp: 594

Ion Ratio Lower Upper

75 100

77 18.1 25.4 38.0#



#56

Ethyl methacrylate

Concen: 0.572 ug/l

RT: 9.20 min Scan# 1319

Delta R.T. 0.02 min

Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

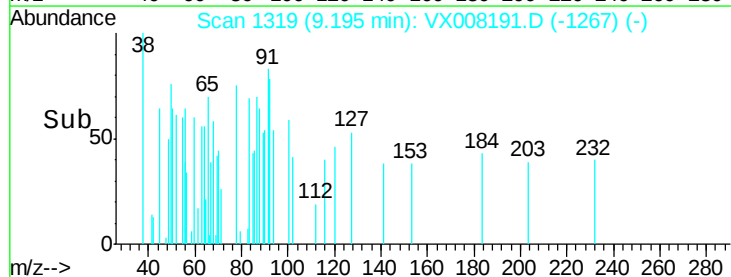
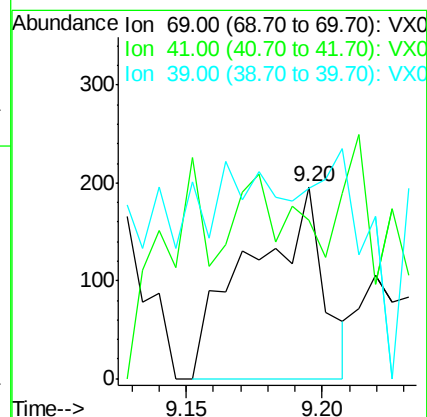
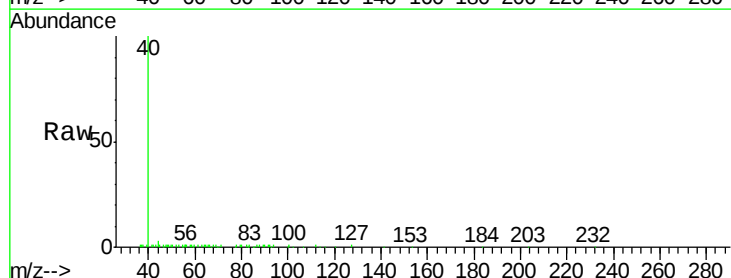
Tgt Ion: 69 Resp: 367

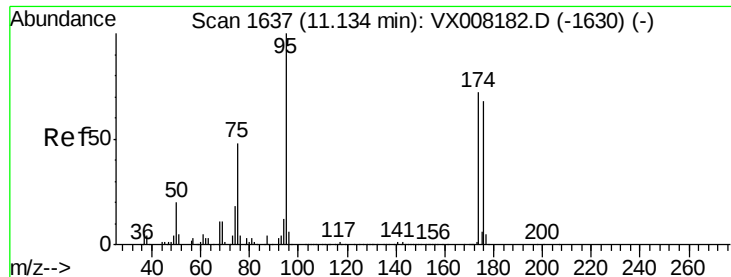
Ion Ratio Lower Upper

69 100

41 27.5 54.2 81.4#

39 0.0 25.0 37.4#





#62

4-Bromofluorobenzene

Concen: 45.540 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

Instrument :

MSVOA_X

ClientSampleId :

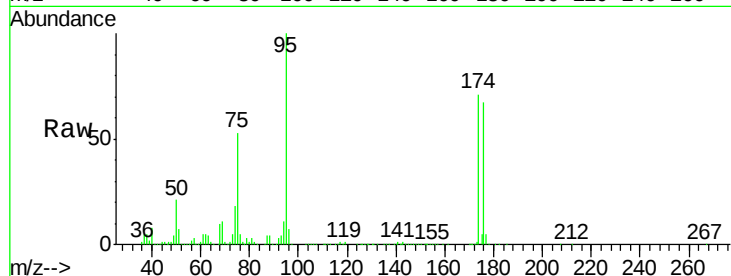
Tot Ion: 95 Resp: 217689

Ion Ratio Lower Upper

95 100

174 76.3 0.0 182.8

176 73.9 0.0 178.0



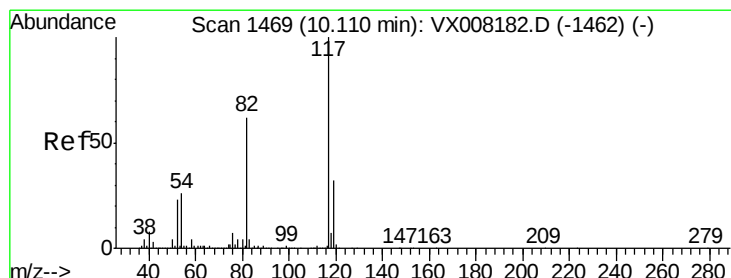
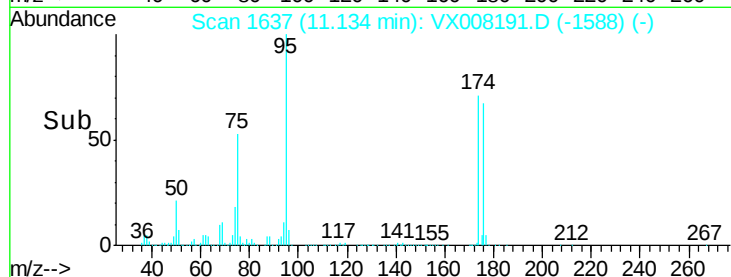
Abundance Ion 94.90 (94.60 to 95.60): VX008182.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008182.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008182.D (-1630) (-)

11.13

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

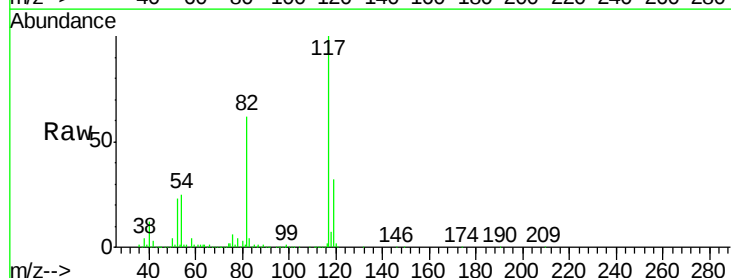
Tgt Ion: 117 Resp: 459481

Ion Ratio Lower Upper

117 100

82 61.7 44.3 66.5

119 31.7 25.3 37.9



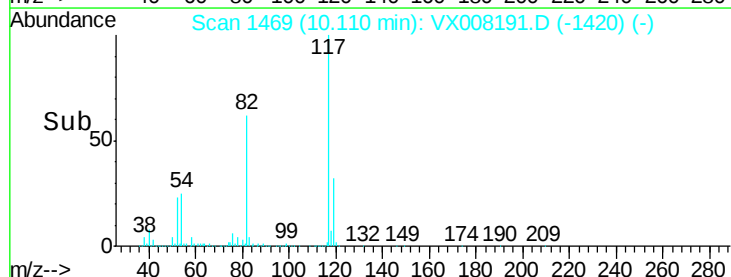
Abundance Ion 116.90 (116.60 to 117.60): VX008182.D (-1462) (-)

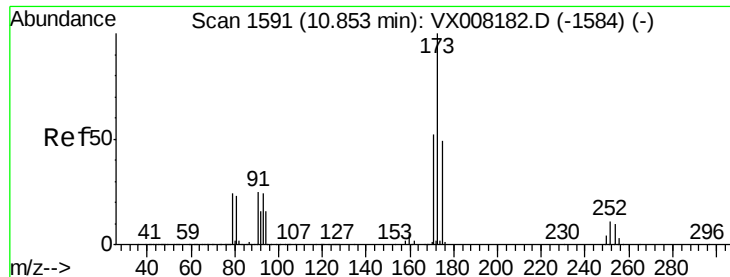
Ion 82.00 (81.70 to 82.70): VX008182.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008182.D (-1462) (-)

10.11

Time-->





#71

Bromoform

Concen: 2.245 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.01 min

Lab File: VX008191.D

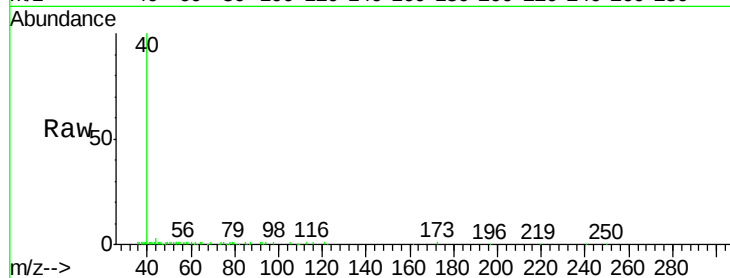
Acq: 19 Mar 2019 15:11

Instrument :

MSVOA_X

ClientSampleId :

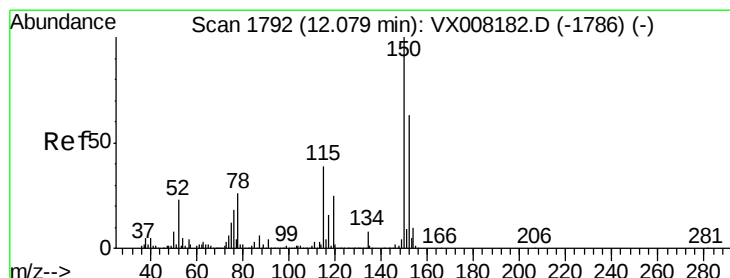
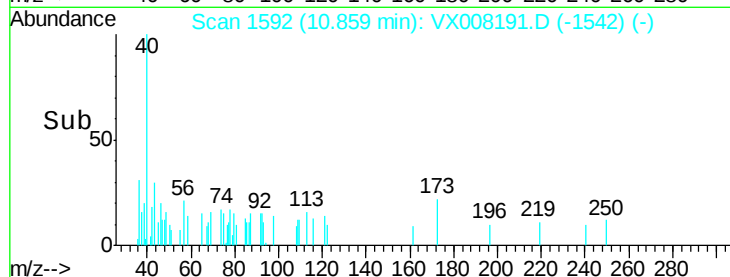
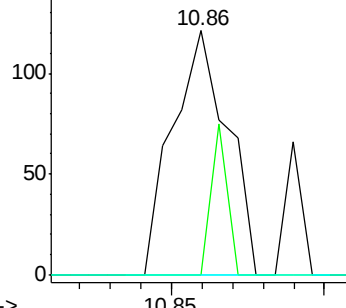
Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.3	72.9#
254	0.0	0.1	0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

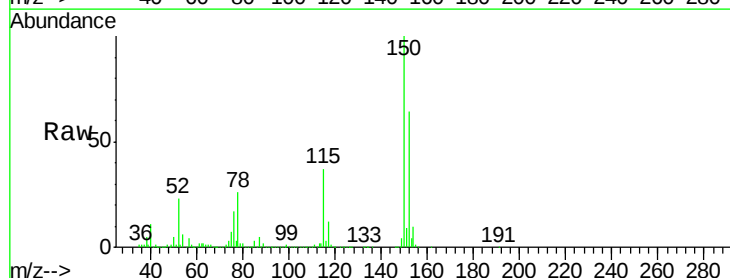
RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

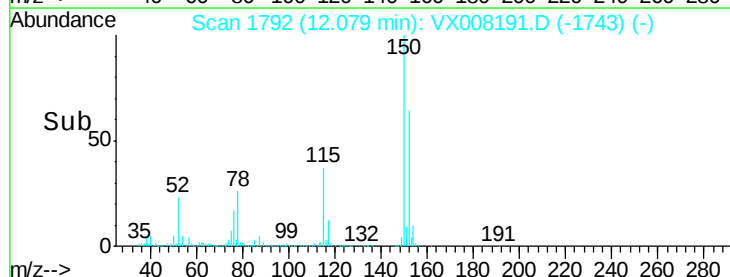
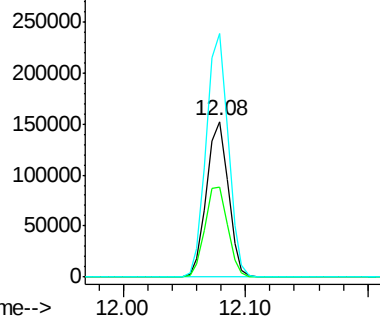
Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.9	38.6	115.7
150	157.6	0.0	348.4

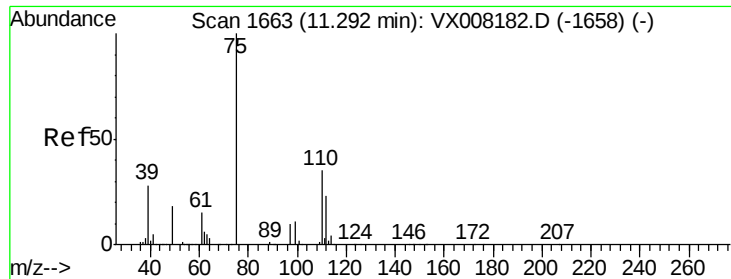


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

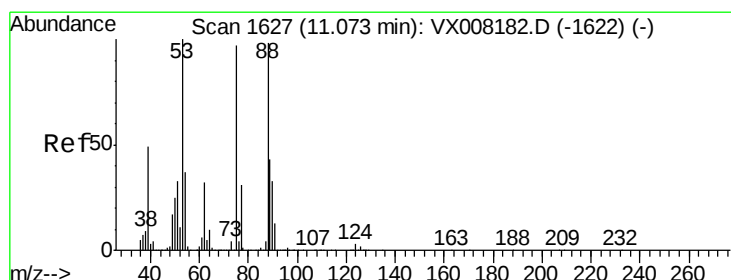
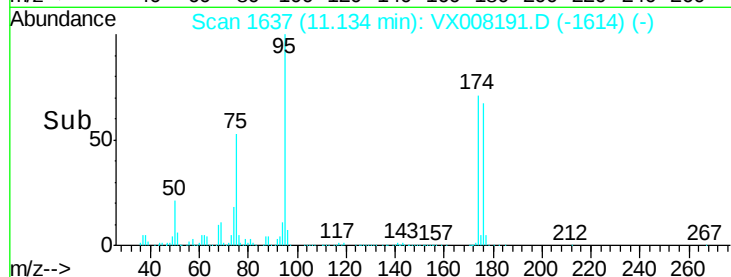
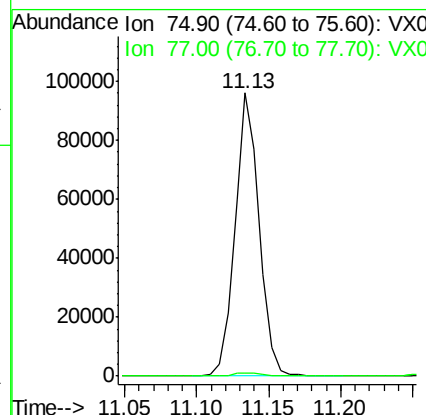
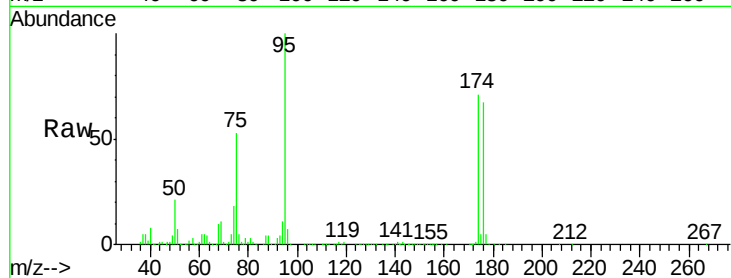




#76
 1,2,3-Trichloropropane
 Concen: 21.393 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008191.D
 Acq: 19 Mar 2019 15:11

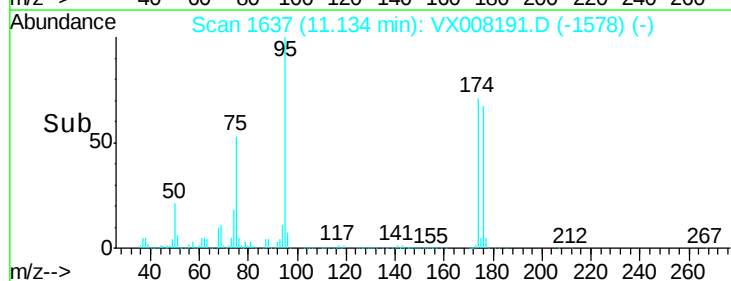
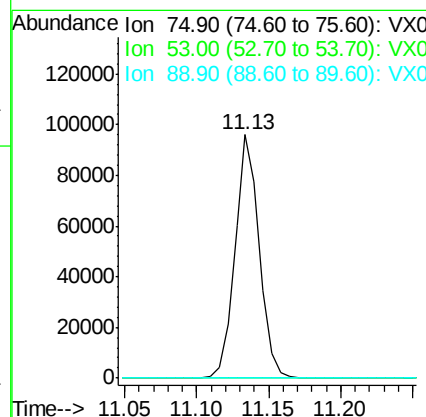
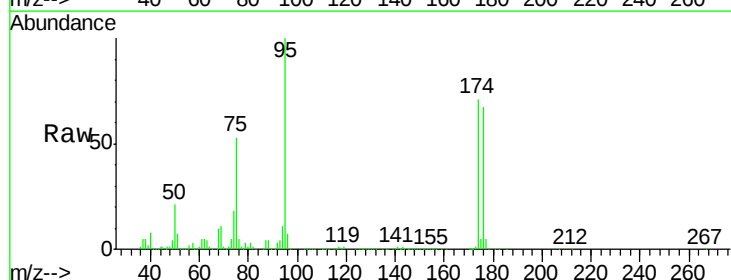
Instrument :
 MSVOA_X
 ClientSampleId :

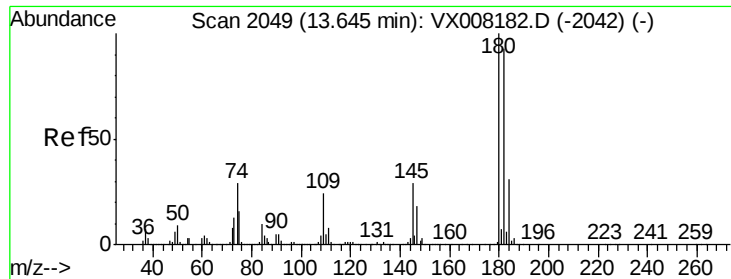
Tot Ion: 75 Resp: 112697
 Ion Ratio Lower Upper
 75 100
 77 1.5 18.9 56.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 54.406 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008191.D
 Acq: 19 Mar 2019 15:11

Tgt Ion: 75 Resp: 112697
 Ion Ratio Lower Upper
 75 100
 53 0.3 76.1 114.1#
 89 0.1 36.3 54.5#

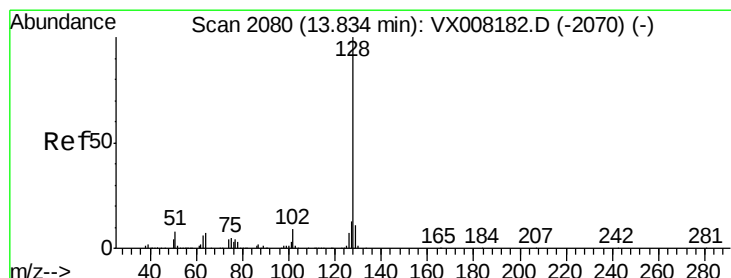
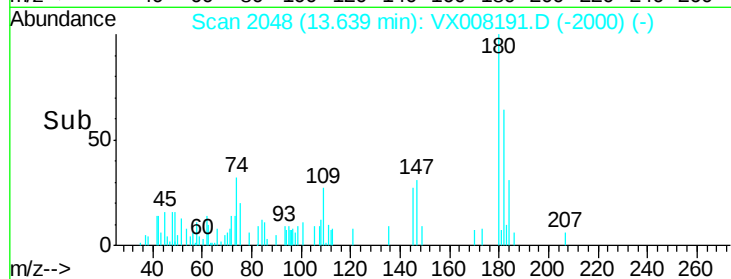
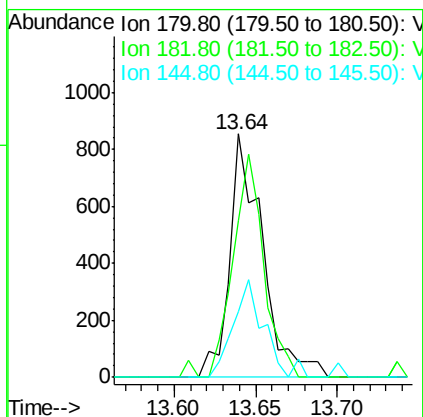
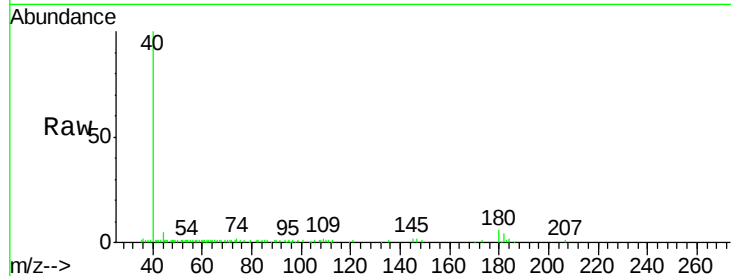




#93
 1,2,4-Trichlorobenzene
 Concen: 0.250 ug/l
 RT: 13.64 min Scan# 2048
 Delta R.T. -0.01 min
 Lab File: VX008191.D
 Acq: 19 Mar 2019 15:11

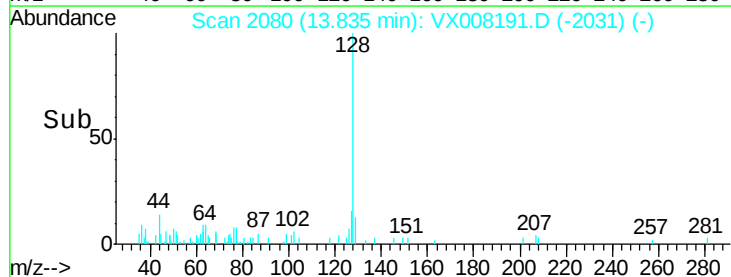
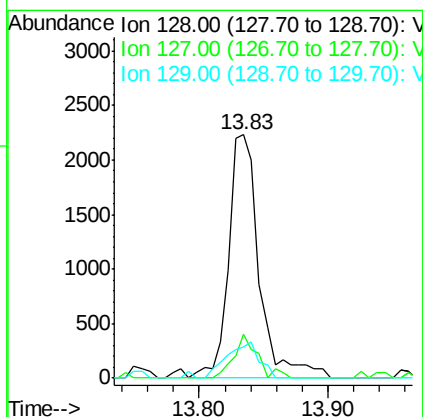
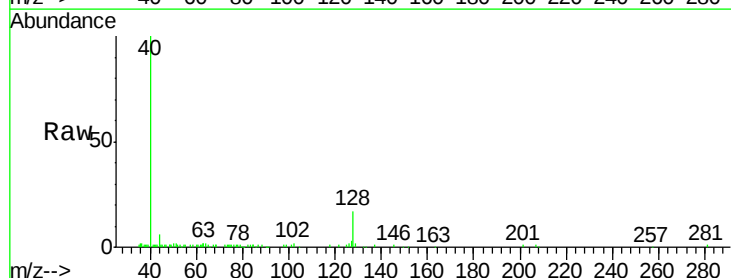
Instrument :
 MSVOA_X
 ClientSampled :

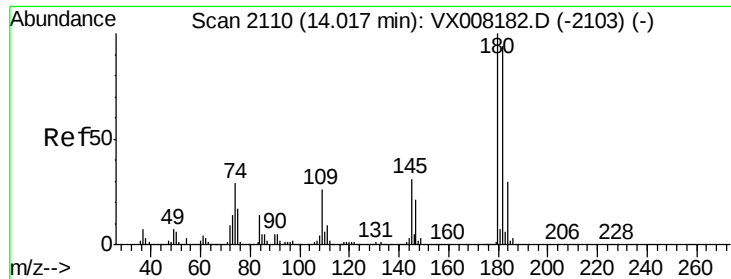
Tot Ion:180 Resp: 1196
 Ion Ratio Lower Upper
 180 100
 182 84.8 47.9 143.7
 145 36.0 14.1 42.4



#95
 Naphthalene
 Concen: 0.245 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX008191.D
 Acq: 19 Mar 2019 15:11

Tgt Ion:128 Resp: 3711
 Ion Ratio Lower Upper
 128 100
 127 14.0 10.3 15.5
 129 15.6 8.7 13.1#





#96

1,2,3-Trichlorobenzene

Concen: 0.239 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VX008191.D

Acq: 19 Mar 2019 15:11

Instrument :

MSVOA_X

ClientSampleId :

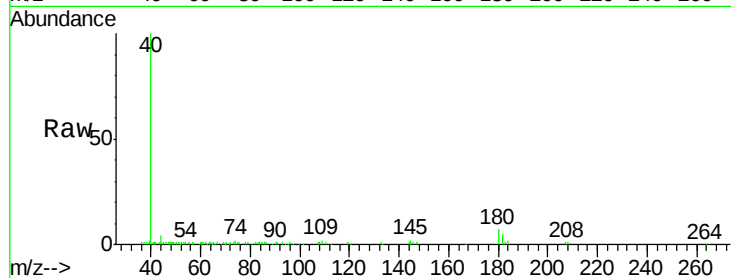
Tot Ion:180 Resp: 1125

Ion Ratio Lower Upper

180 100

182 83.1 47.5 142.5

145 35.0 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

