

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031919\
 Data File : VX008193.D
 Acq On : 19 Mar 2019 16:25
 Operator : JC/SP
 Sample : K1860-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 20 07:10:13 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	352081	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	567886	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	472090	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	185096	50.00	ug/l	0.00

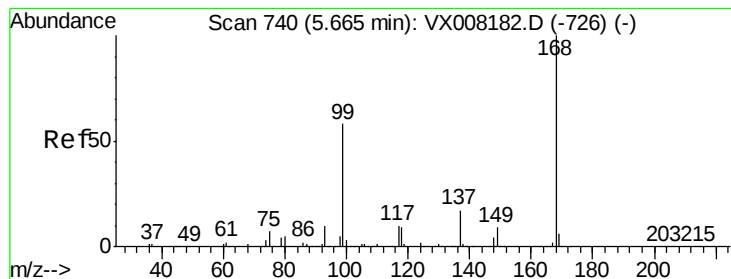
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	240545	45.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.72%	
35) Dibromofluoromethane	5.50	113	178381	46.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.84%	
50) Toluene-d8	8.71	98	697098	48.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.72%	
62) 4-Bromofluorobenzene	11.13	95	220963	44.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.04%	

Target Compounds

					Qvalue	
11) Tert butyl alcohol	3.04	59	980	0.863	ug/l #	78
13) Acrolein	2.30	56	162	Below	Cal	94
16) Acetone	2.45	43	1999	0.665	ug/l	98
17) Carbon Disulfide	2.57	76	1919	0.811	ug/l #	64
20) Methylene Chloride	2.86	84	1535	0.306	ug/l #	81
27) cis-1,2-Dichloroethene	4.59	96	1270	0.241	ug/l	56
31) Cyclohexane	5.66	56	9051	1.029	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	29215	4.419	ug/l #	49
38) Carbon Tetrachloride	5.66	117	34807	5.908	ug/l #	17
49) 1,4-Dioxane	7.74	88	72	0.613	ug/l #	1
53) t-1,3-Dichloropropene	9.05	75	722	1.511	ug/l #	56
56) Ethyl methacrylate	9.17	69	149	0.544	ug/l #	12
71) Bromoform	10.85	173	120	2.235	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	115028	22.095	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	115028	56.145	ug/l #	12
87) 1,3-Dichlorobenzene	12.02	146	2153	0.302	ug/l	93
88) 1,4-Dichlorobenzene	12.02	146	2153	0.292	ug/l	91
93) 1,2,4-Trichlorobenzene	13.64	180	2713	0.573	ug/l	95
94) Hexachlorobutadiene	13.79	225	659	0.285	ug/l	91
95) Naphthalene	13.83	128	3830	0.256	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008193.D

Acq: 19 Mar 2019 16:25

Instrument :

MSVOA_X

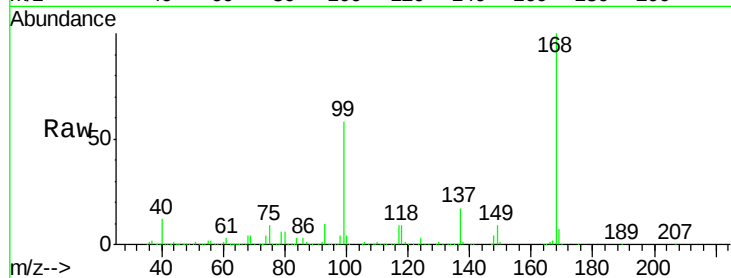
ClientSampled :

Tot Ion:168 Resp: 352081

Ion Ratio Lower Upper

168 100

99 57.6 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

150000

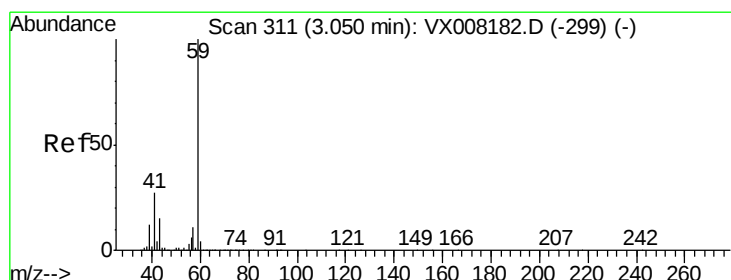
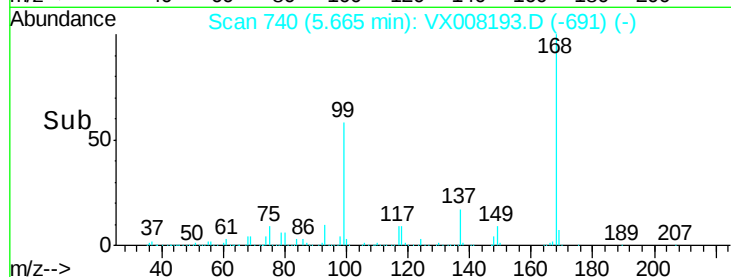
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 0.863 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.01 min

Lab File: VX008193.D

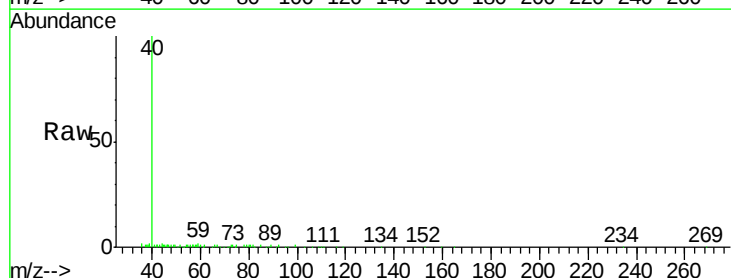
Acq: 19 Mar 2019 16:25

Tgt Ion: 59 Resp: 980

Ion Ratio Lower Upper

59 100

57 18.5 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.04

400

300

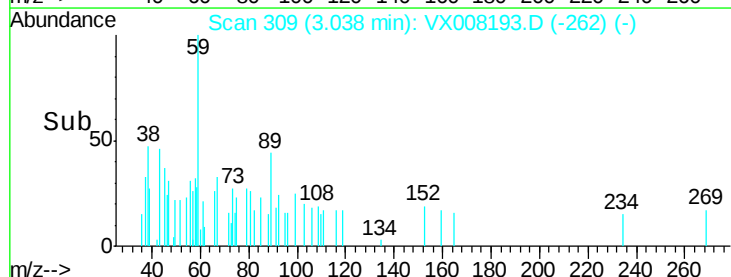
200

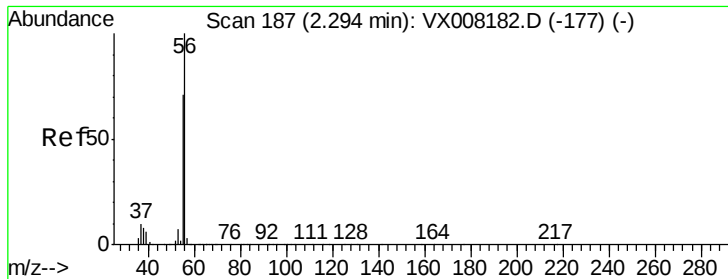
100

0

Time-->

2.95 3.00 3.05 3.10





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX008193.D

Acq: 19 Mar 2019 16:25

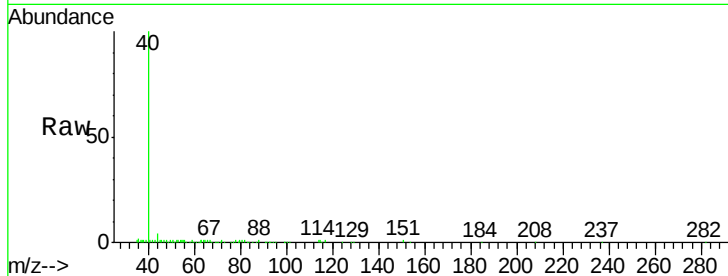
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 162

Ion Ratio Lower Upper

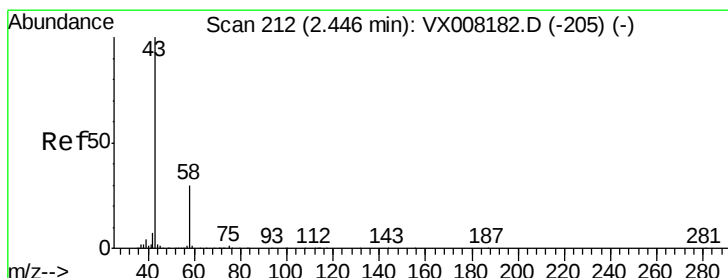
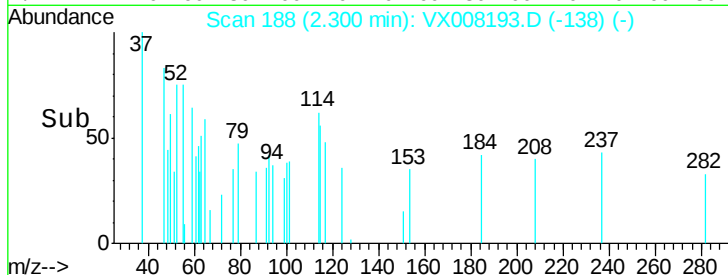
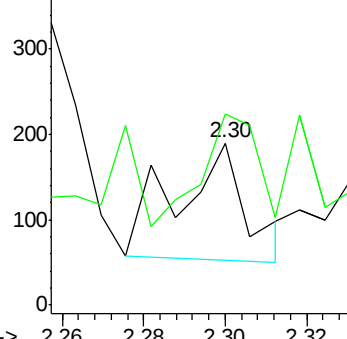
56 100

55 77.2 57.8 86.6



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.665 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX008193.D

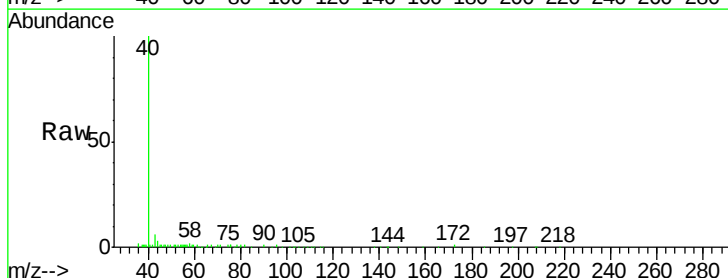
Acq: 19 Mar 2019 16:25

Tgt Ion: 43 Resp: 1999

Ion Ratio Lower Upper

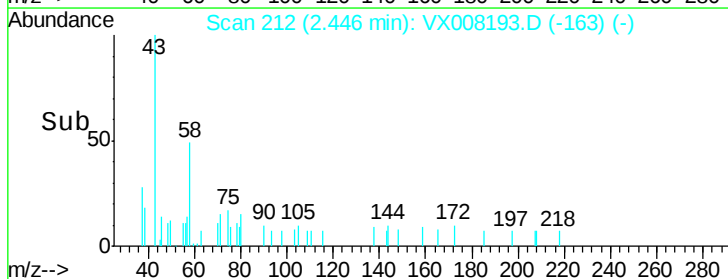
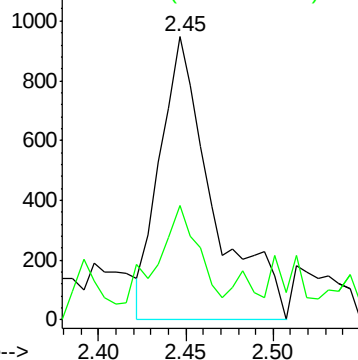
43 100

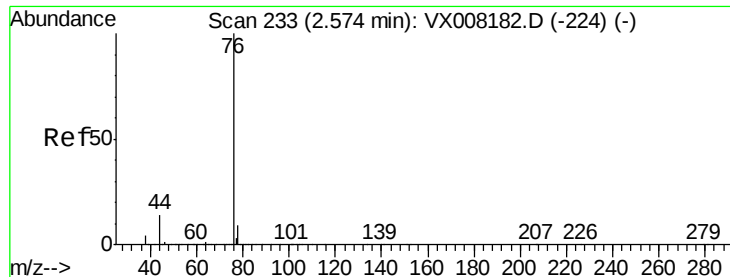
58 30.7 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.811 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX008193.D

Acq: 19 Mar 2019 16:25

Instrument :

MSVOA_X

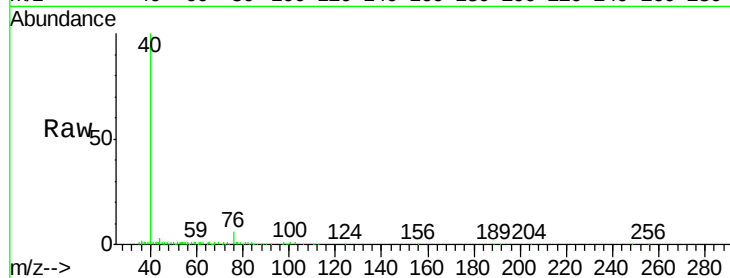
ClientSampled :

Tot Ion: 76 Resp: 1919

Ion Ratio Lower Upper

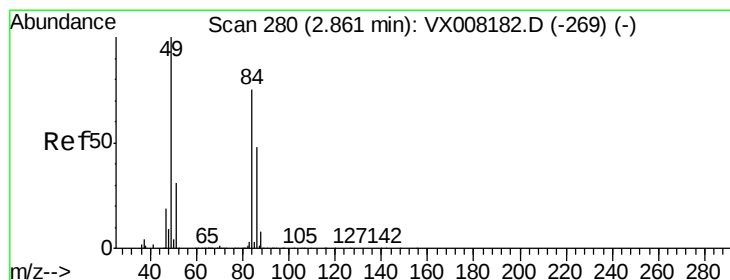
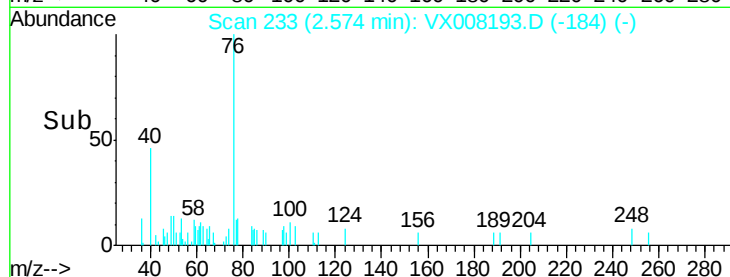
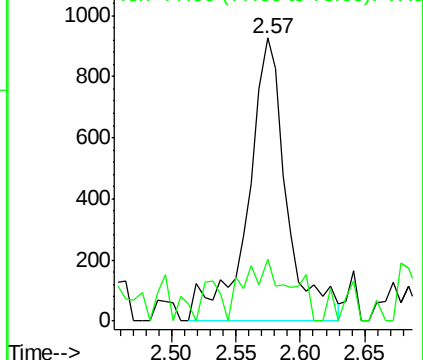
76 100

78 22.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.306 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX008193.D

Acq: 19 Mar 2019 16:25

Tgt Ion: 84 Resp: 1535

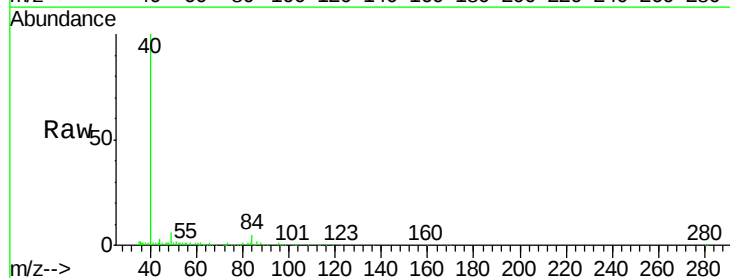
Ion Ratio Lower Upper

84 100

49 111.6 99.3 148.9

51 19.1 31.3 46.9#

86 44.3 52.6 79.0#

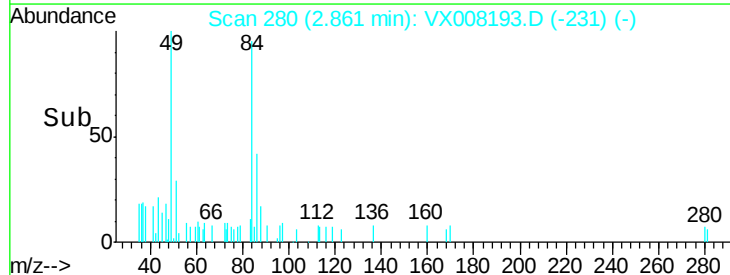
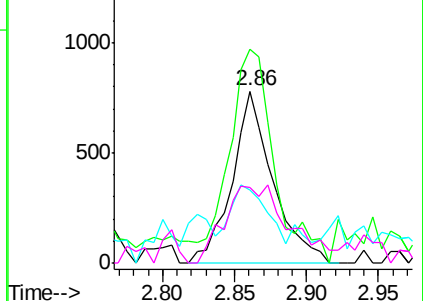


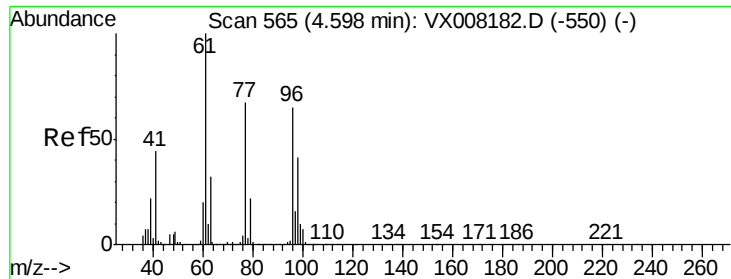
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



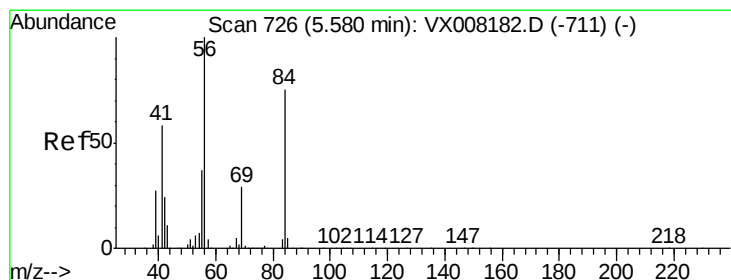
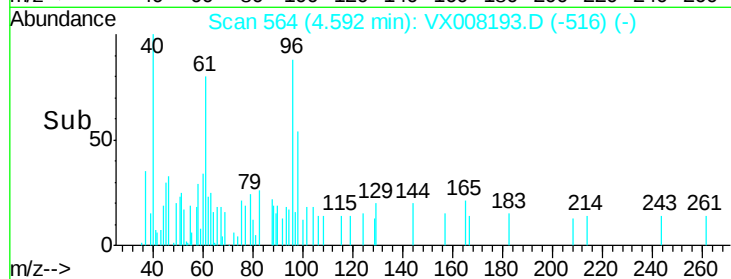
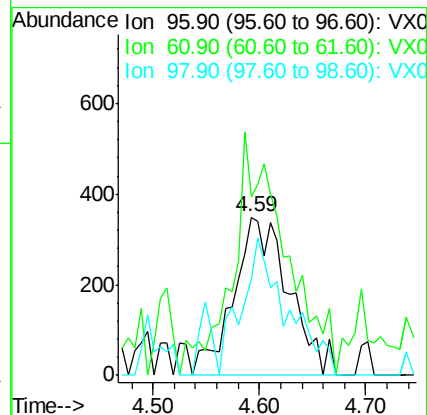
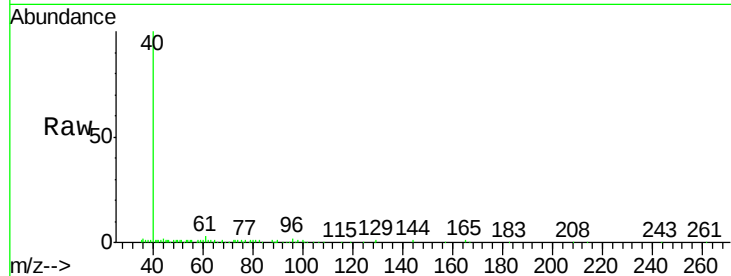


#27

cis-1,2-Dichloroethene
Concen: 0.241 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.01 min
Lab File: VX008193.D
Acq: 19 Mar 2019 16:25

Instrument :
MSVOA_X
ClientSampleId :

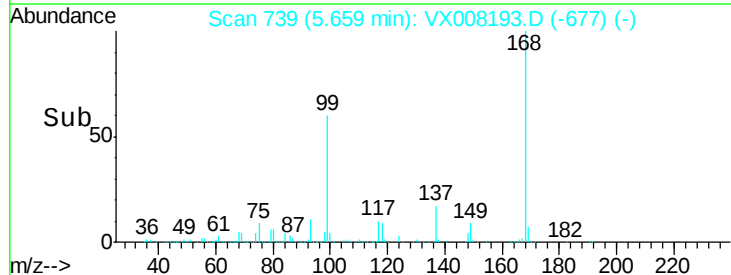
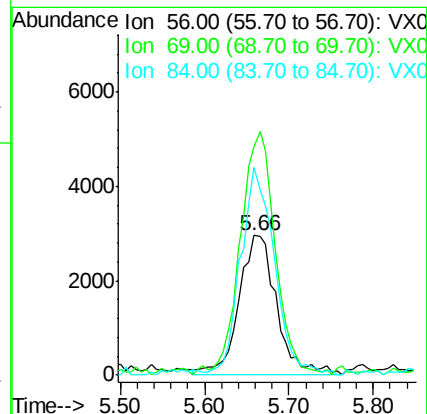
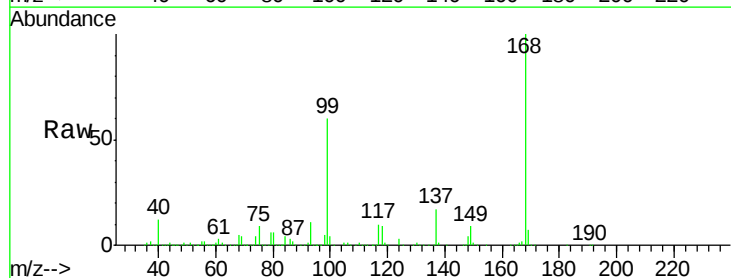
Tot Ion: 96 Resp: 1270
Ion Ratio Lower Upper
96 100
61 71.2 0.0 288.0
98 72.0 0.0 129.0

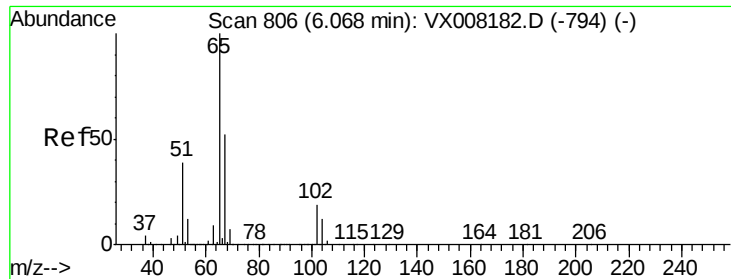


#31

Cyclohexane
Concen: 1.029 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008193.D
Acq: 19 Mar 2019 16:25

Tgt Ion: 56 Resp: 9051
Ion Ratio Lower Upper
56 100
69 168.3 24.0 36.0#
84 153.6 65.3 97.9#

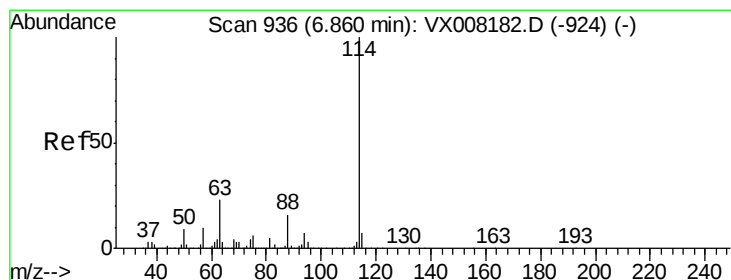
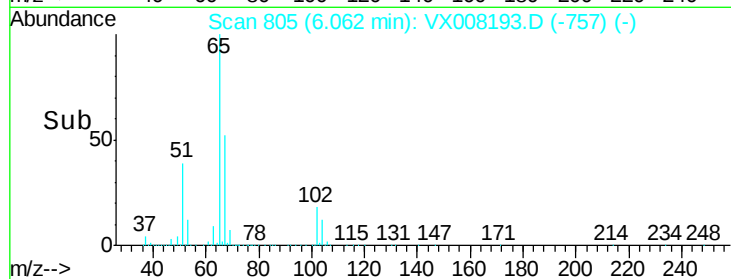
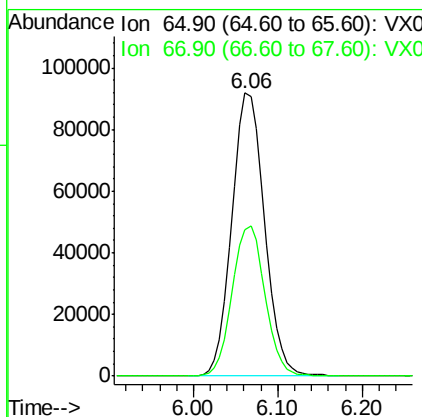
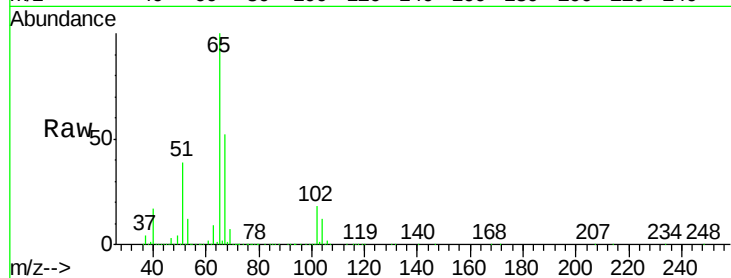




#33
 1,2-Dichloroethane-d4
 Concen: 45.363 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.01 min
 Lab File: VX008193.D
 Acq: 19 Mar 2019 16:25

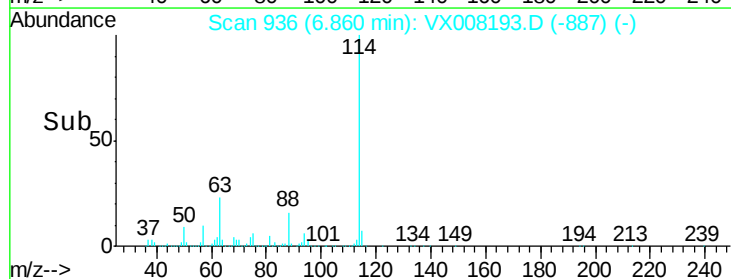
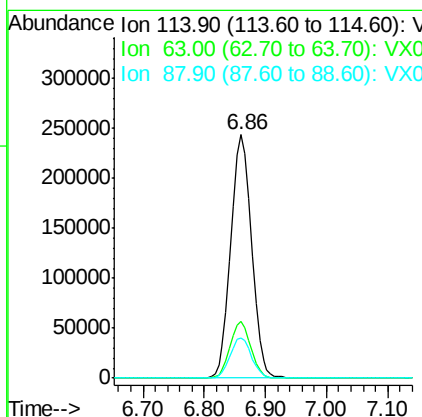
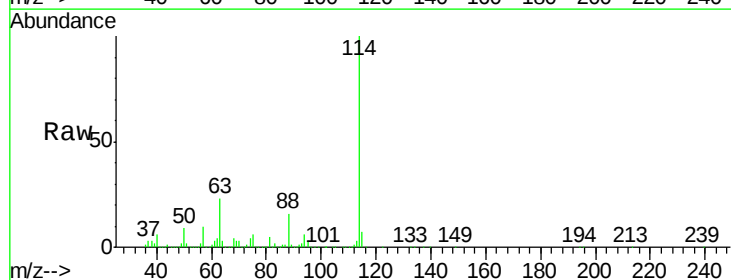
Instrument :
 MSVOA_X
 ClientSampled :

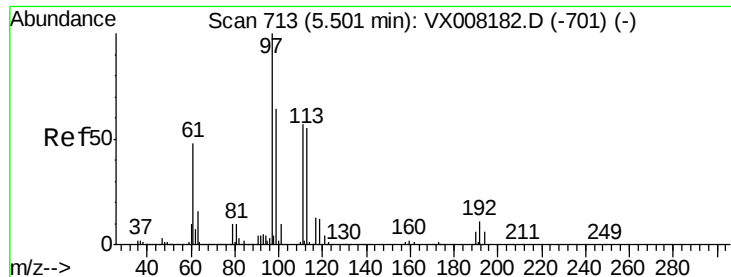
Tot Ion: 65 Resp: 240545
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 110.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008193.D
 Acq: 19 Mar 2019 16:25

Tgt Ion: 114 Resp: 567886
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 39.8
 88 16.2 0.0 31.4





#35

Dibromofluoromethane

Concen: 46.922 ug/l

RT: 5.50 min Scan# 713

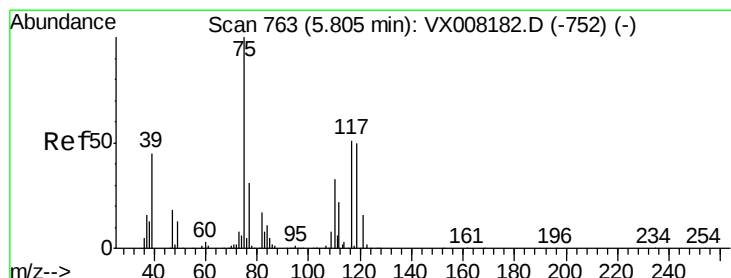
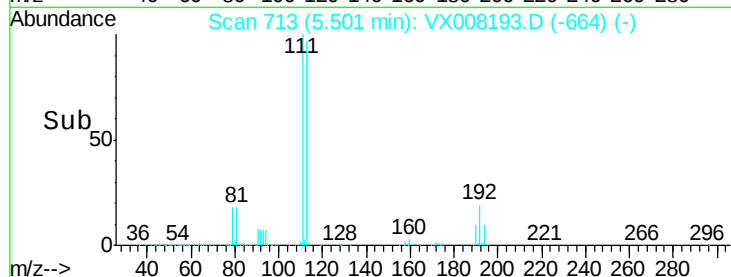
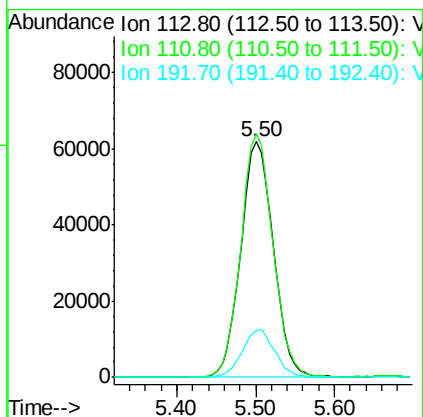
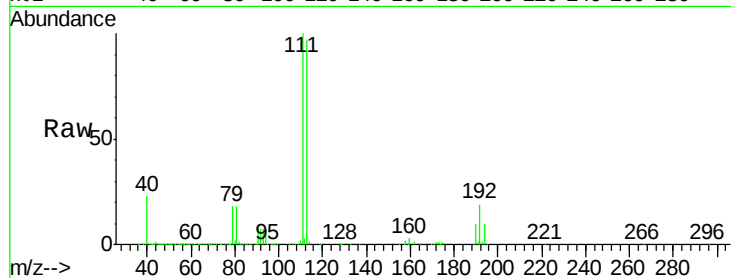
Delta R.T. 0.00 min

Lab File: VX008193.D

Acq: 19 Mar 2019 16:25

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.4	122.0
192	20.2	19.4	29.0



#36

1,1-Dichloropropene

Concen: 4.419 ug/l

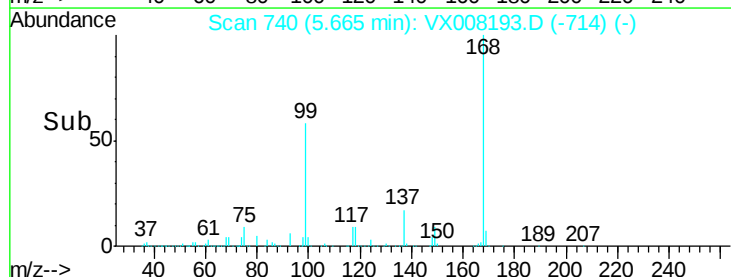
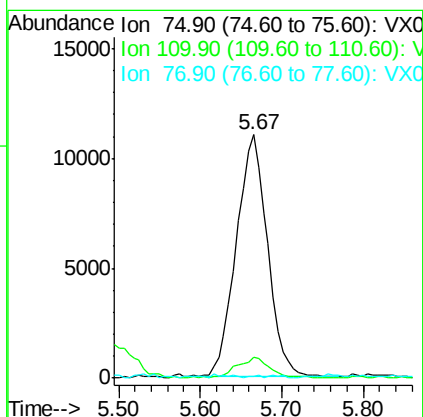
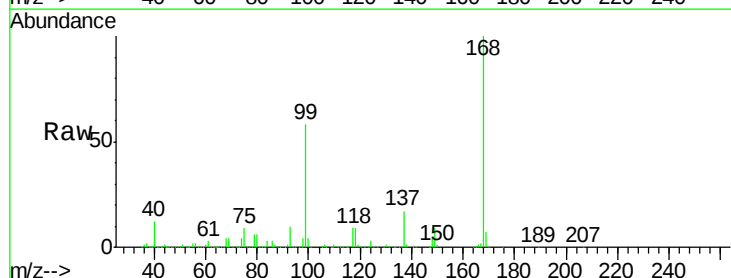
RT: 5.67 min Scan# 740

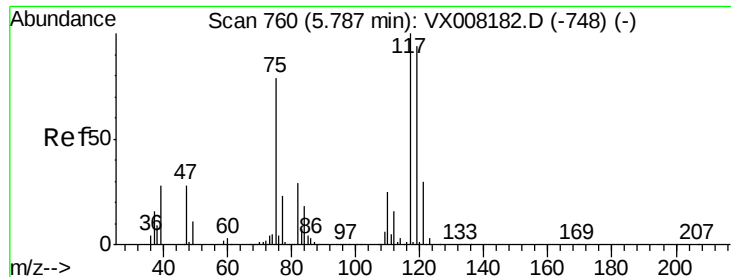
Delta R.T. -0.14 min

Lab File: VX008193.D

Acq: 19 Mar 2019 16:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.4	55.0#
77	0.4	25.0	37.4#

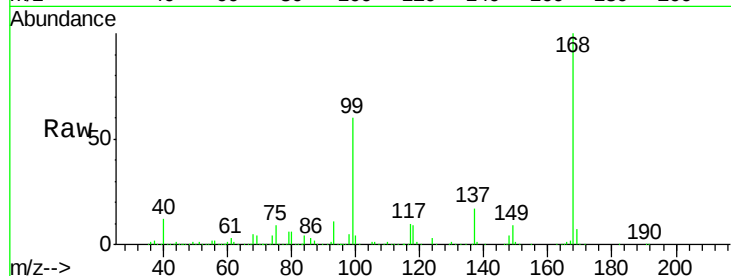




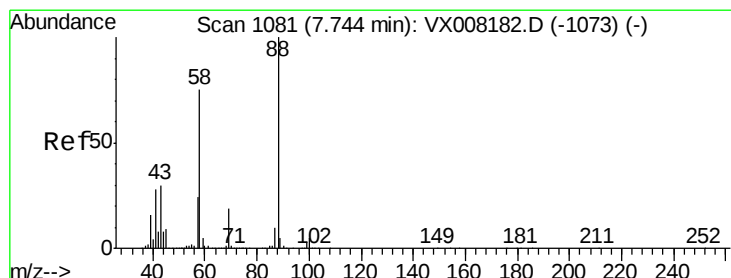
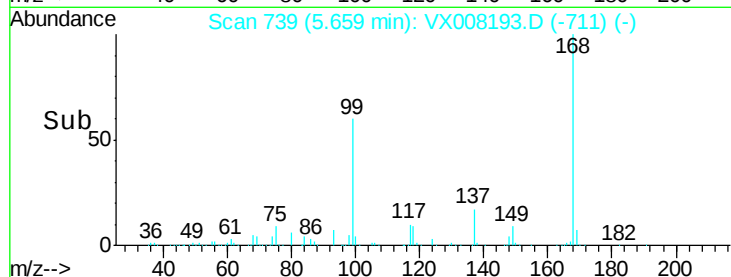
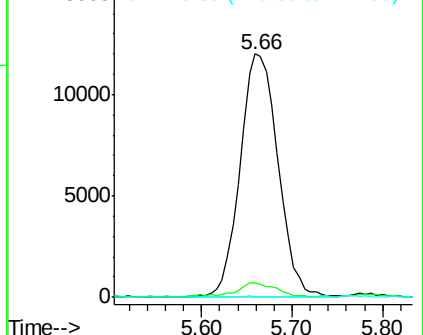
#38
Carbon Tetrachloride
Concen: 5.908 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX008193.D
Acq: 19 Mar 2019 16:25

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 34807
Ion Ratio Lower Upper
117 100
119 6.2 76.2 114.2#
121 0.0 24.6 36.8#

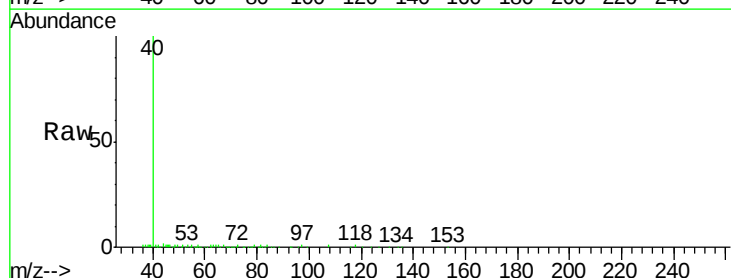


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

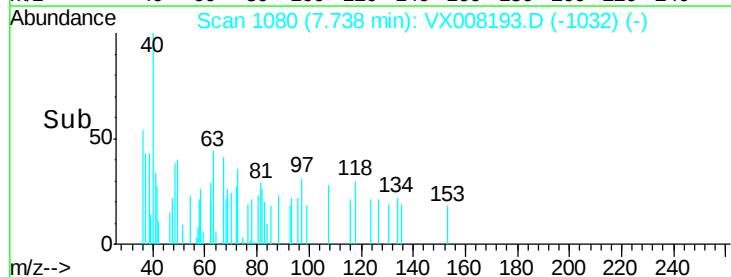
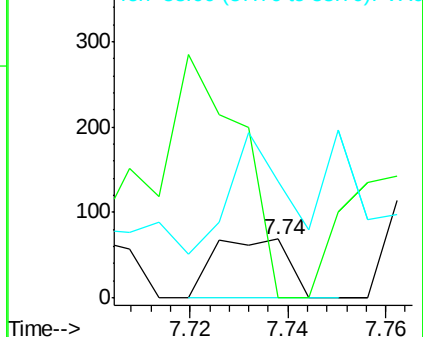


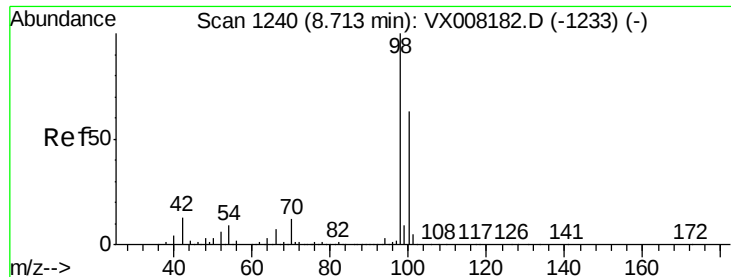
#49
1,4-Dioxane
Concen: 0.613 ug/l
RT: 7.74 min Scan# 1080
Delta R.T. -0.01 min
Lab File: VX008193.D
Acq: 19 Mar 2019 16:25

Tgt Ion: 88 Resp: 72
Ion Ratio Lower Upper
88 100
43 491.7 25.1 37.7#
58 150.0 57.8 86.6#



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

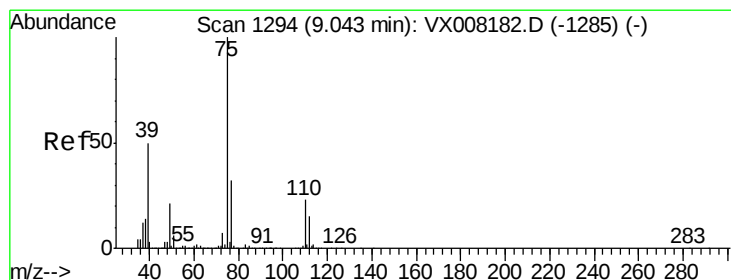
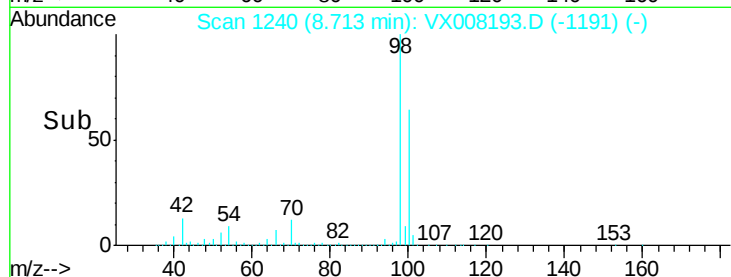
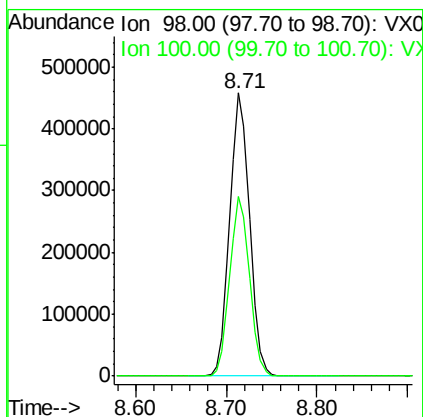
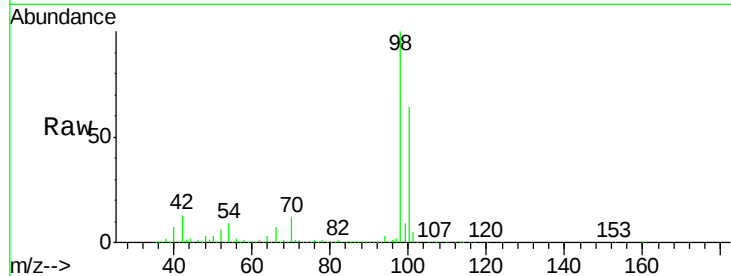




#50
Toluene-d8
Concen: 48.365 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008193.D
Acq: 19 Mar 2019 16:25

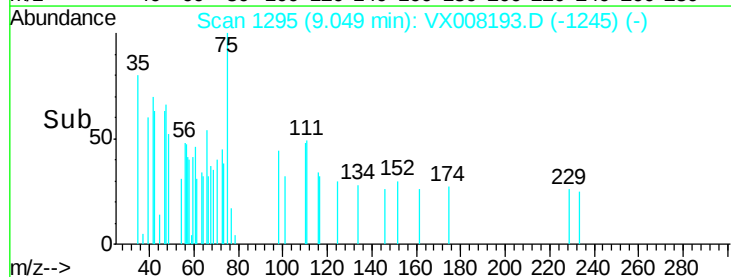
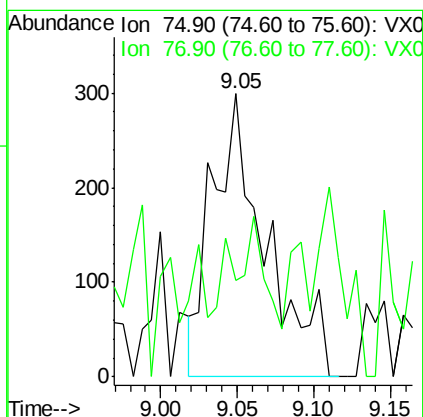
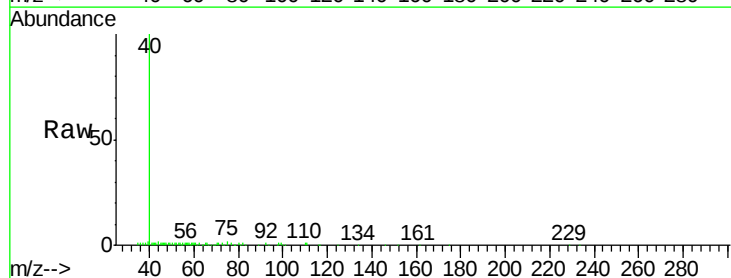
Instrument :
MSVOA_X
ClientSampleId :

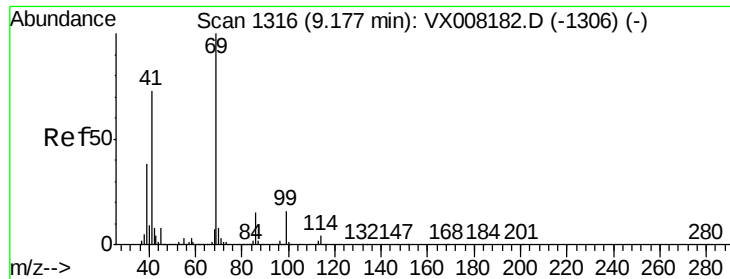
Tot Ion: 98 Resp: 697098
Ion Ratio Lower Upper
98 100
100 63.2 51.7 77.5



#53
t-1,3-Dichloropropene
Concen: 1.511 ug/l
RT: 9.05 min Scan# 1295
Delta R.T. 0.01 min
Lab File: VX008193.D
Acq: 19 Mar 2019 16:25

Tgt Ion: 75 Resp: 722
Ion Ratio Lower Upper
75 100
77 7.0 25.4 38.0#

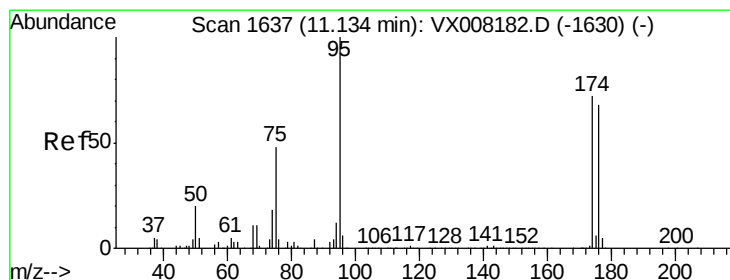
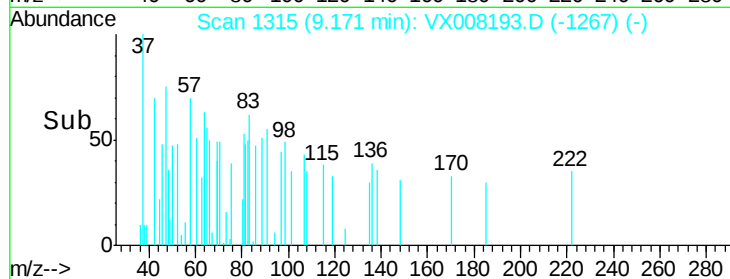
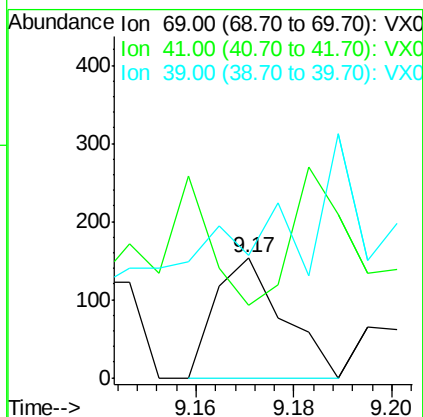
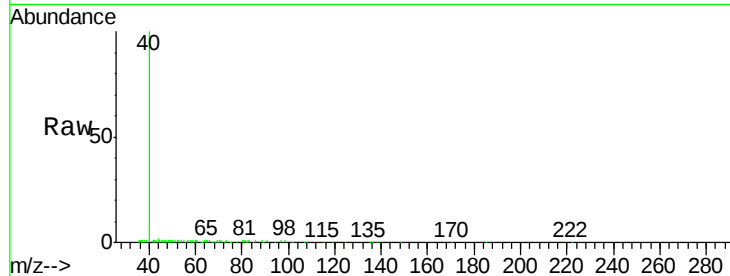




#56
Ethyl methacrylate
Concen: 0.544 ug/l
RT: 9.17 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VX008193.D
Acq: 19 Mar 2019 16:25

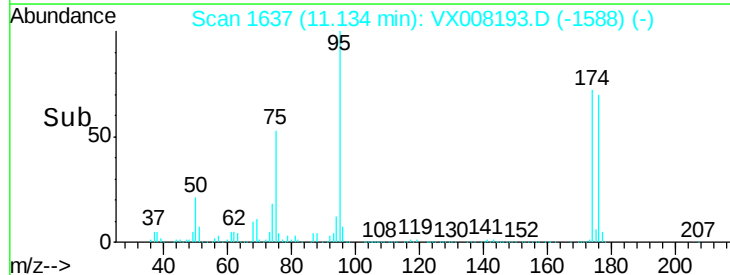
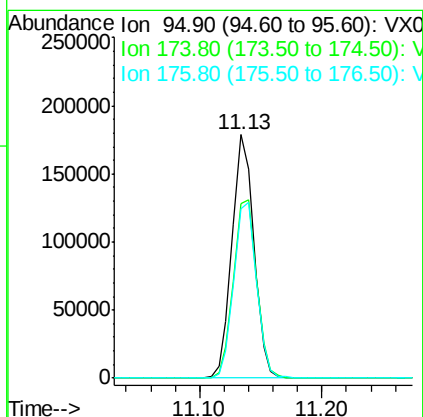
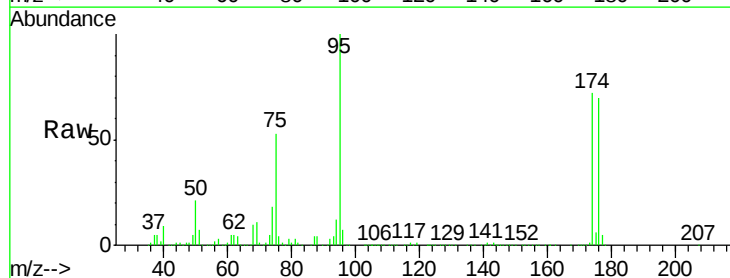
Instrument :
MSVOA_X
ClientSampled :

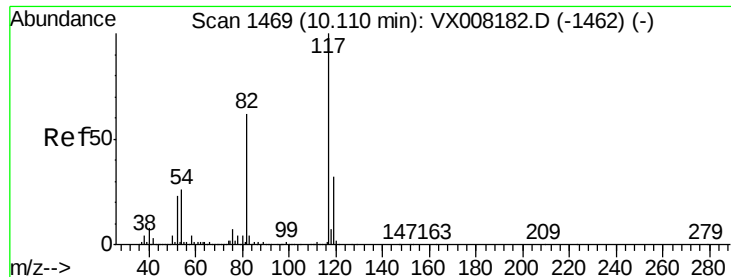
Tot Ion: 69 Resp: 149
Ion Ratio Lower Upper
69 100
41 116.1 54.2 81.4#
39 114.1 25.0 37.4#



#62
4-Bromofluorobenzene
Concen: 44.524 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008193.D
Acq: 19 Mar 2019 16:25

Tgt Ion: 95 Resp: 220963
Ion Ratio Lower Upper
95 100
174 77.2 0.0 182.8
176 75.0 0.0 178.0

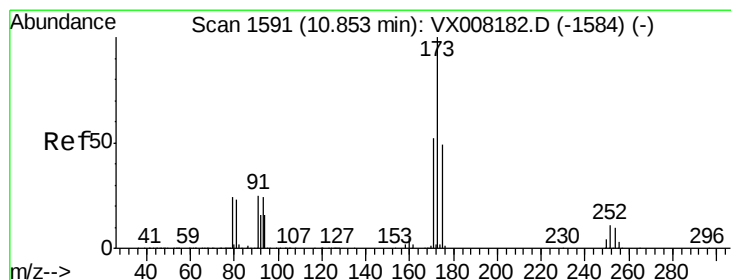
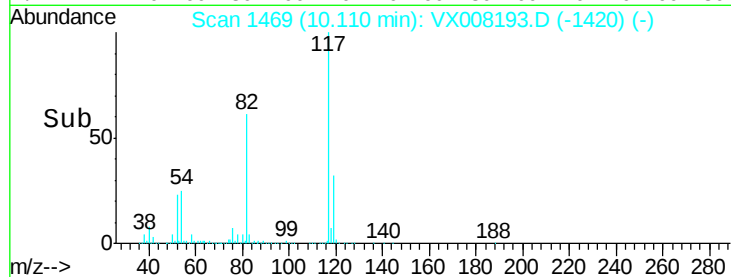
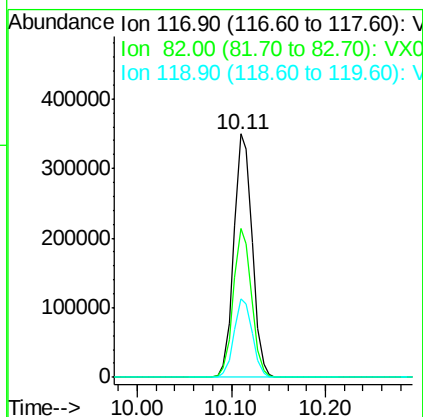
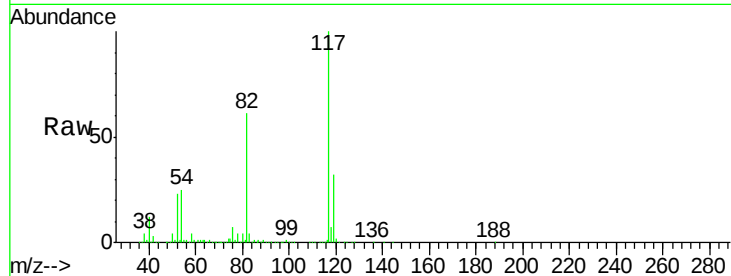




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008193.D
Acq: 19 Mar 2019 16:25

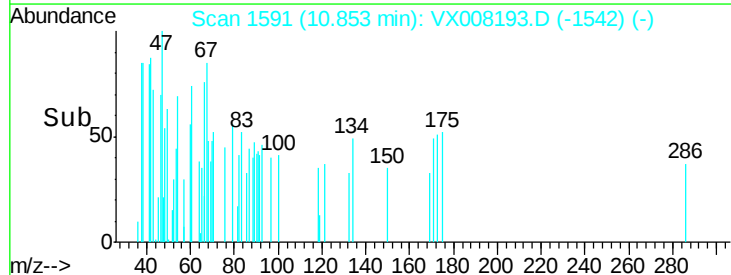
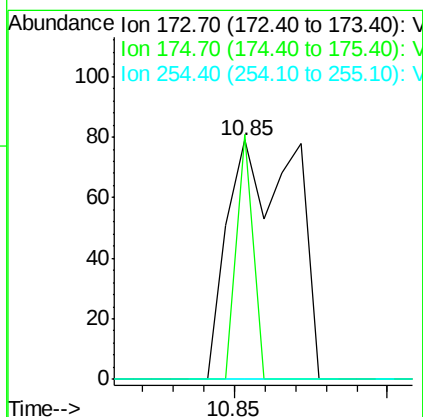
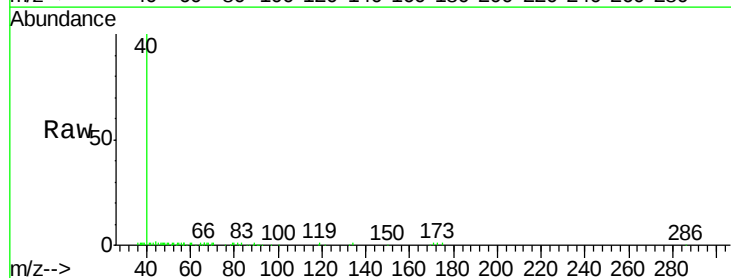
Instrument :
MSVOA_X
ClientSampleId :

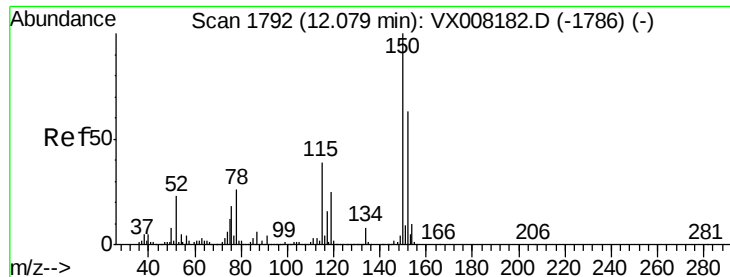
Tot Ion:117 Resp: 472090
Ion Ratio Lower Upper
117 100
82 60.9 44.3 66.5
119 32.5 25.3 37.9



#71
Bromoform
Concen: 2.235 ug/l
RT: 10.85 min Scan# 1591
Delta R.T. 0.00 min
Lab File: VX008193.D
Acq: 19 Mar 2019 16:25

Tgt Ion:173 Resp: 120
Ion Ratio Lower Upper
173 100
175 0.0 24.3 72.9#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008193.D

Acq: 19 Mar 2019 16:25

Instrument :

MSVOA_X

ClientSampleId :

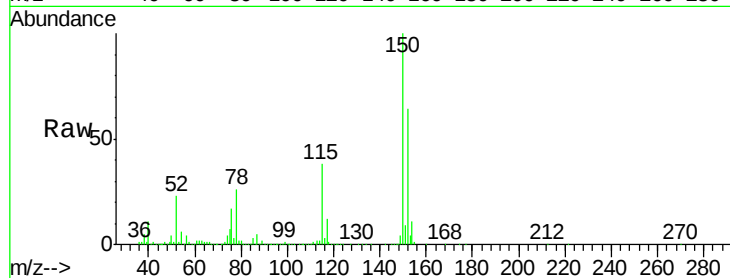
Tot Ion:152 Resp: 185096

Ion Ratio Lower Upper

152 100

115 61.7 38.6 115.7

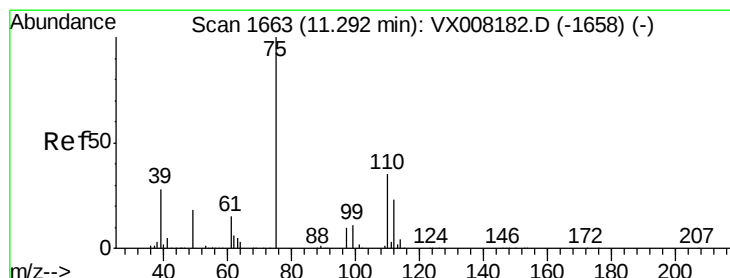
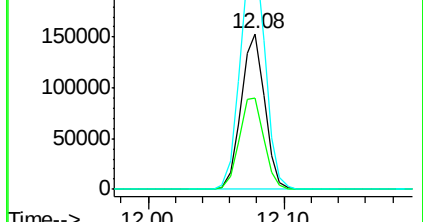
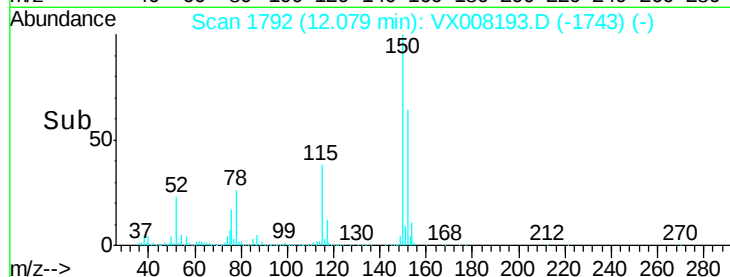
150 158.9 0.0 348.4



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: 22.095 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008193.D

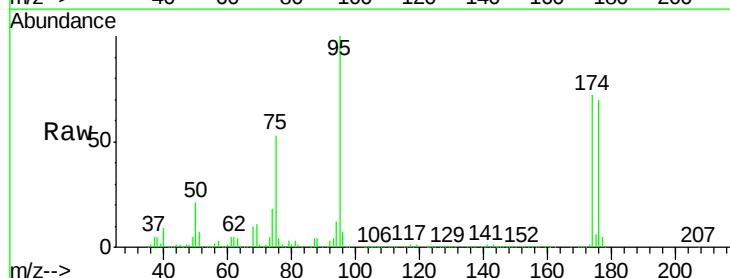
Acq: 19 Mar 2019 16:25

Tgt Ion: 75 Resp: 115028

Ion Ratio Lower Upper

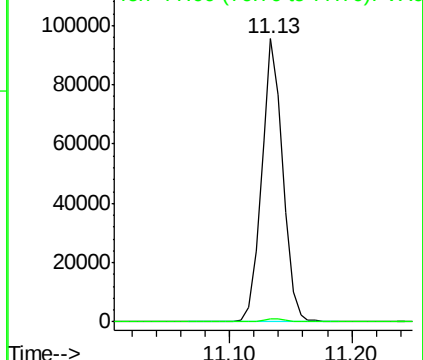
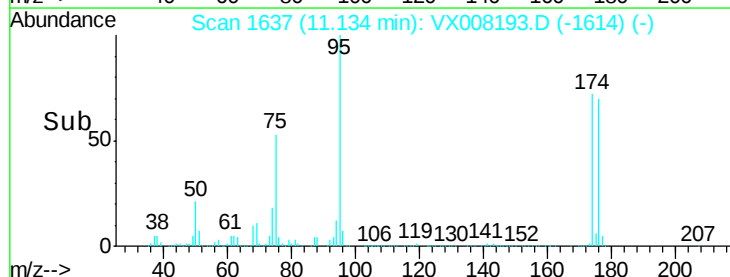
75 100

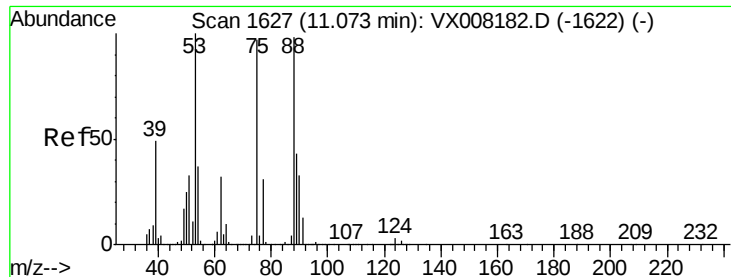
77 1.4 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 56.145 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008193.D

Acq: 19 Mar 2019 16:25

Instrument :

MSVOA_X

ClientSampleId :

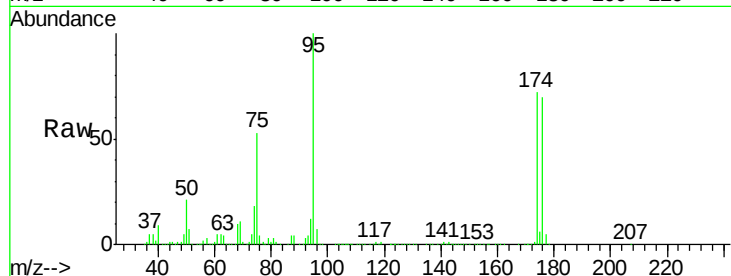
Tot Ion: 75 Resp: 115028

Ion Ratio Lower Upper

75 100

53 0.3 76.1 114.1#

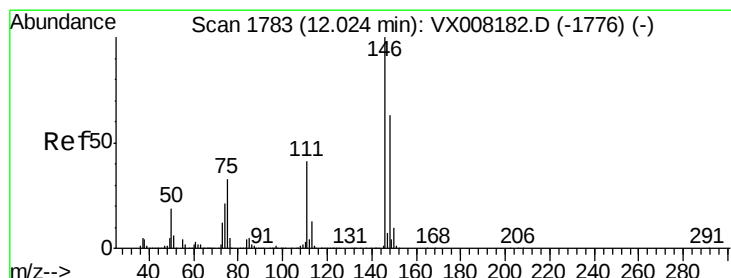
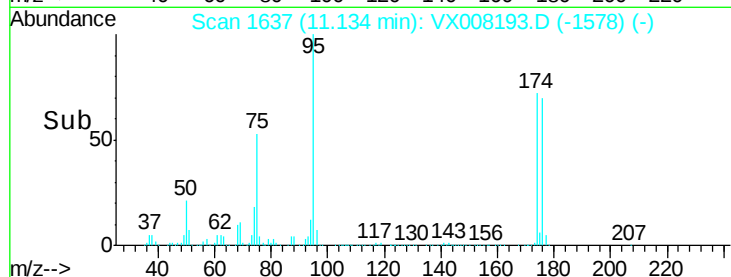
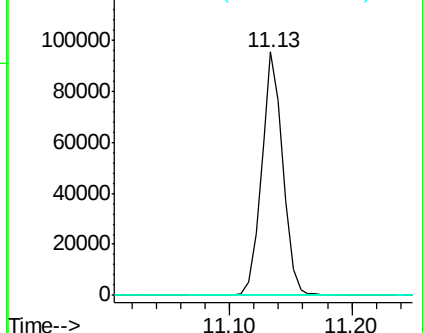
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#87

1,3-Dichlorobenzene

Concen: 0.302 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VX008193.D

Acq: 19 Mar 2019 16:25

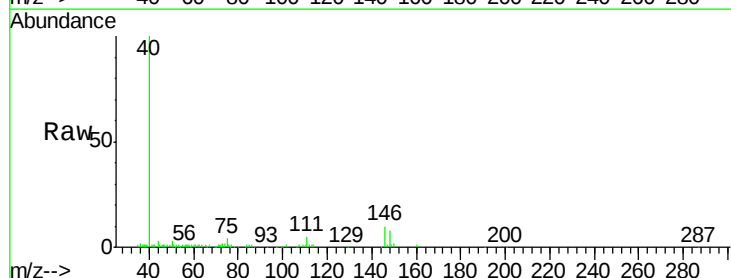
Tgt Ion: 146 Resp: 2153

Ion Ratio Lower Upper

146 100

111 47.9 18.9 56.7

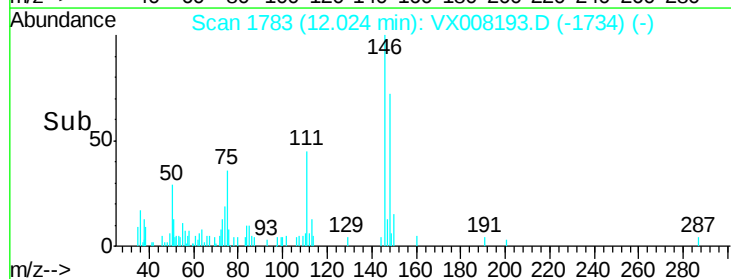
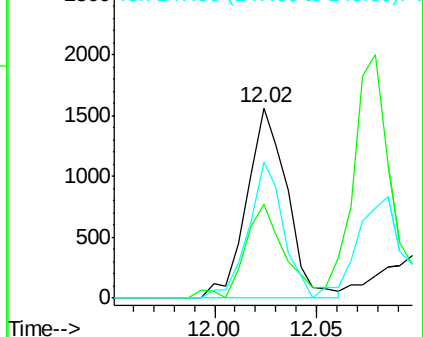
148 62.1 31.7 95.1

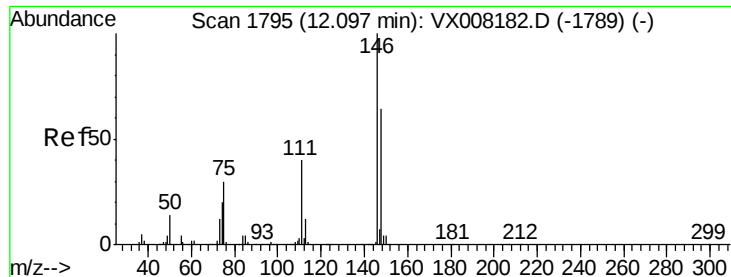


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 0.292 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.07 min

Lab File: VX008193.D

Acq: 19 Mar 2019 16:25

Instrument :

MSVOA_X

ClientSampleId :

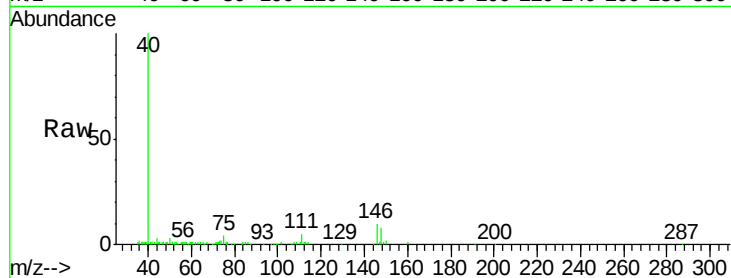
Tot Ion:146 Resp: 2153

Ion Ratio Lower Upper

146 100

111 47.9 18.4 55.0

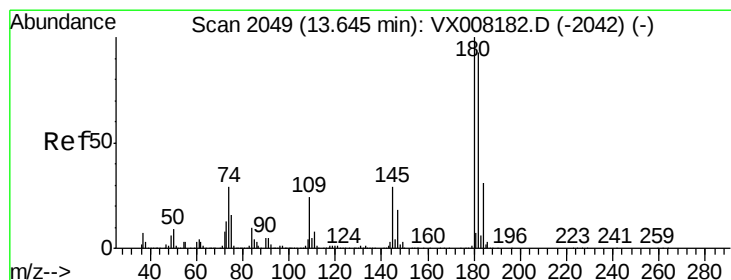
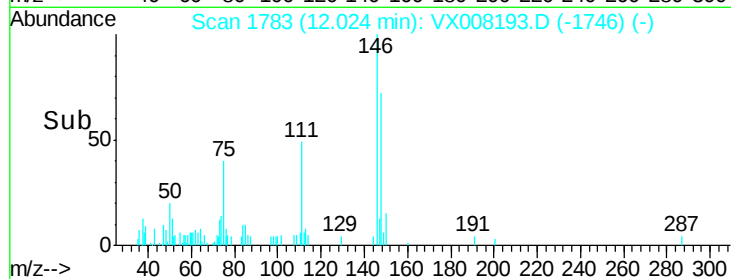
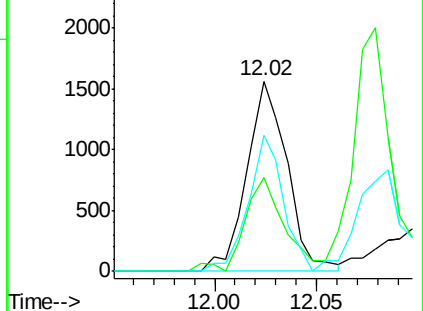
148 62.1 32.2 96.6



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



#93

1,2,4-Trichlorobenzene

Concen: 0.573 ug/l

RT: 13.64 min Scan# 2048

Delta R.T. -0.01 min

Lab File: VX008193.D

Acq: 19 Mar 2019 16:25

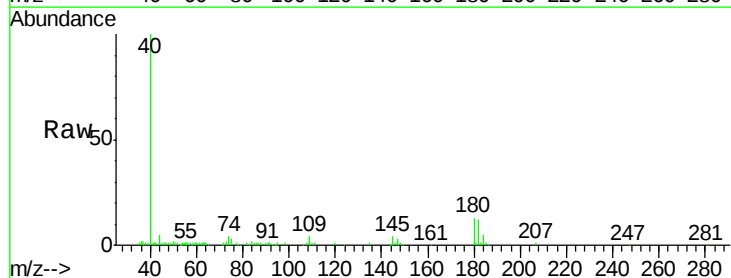
Tgt Ion:180 Resp: 2713

Ion Ratio Lower Upper

180 100

182 98.2 47.9 143.7

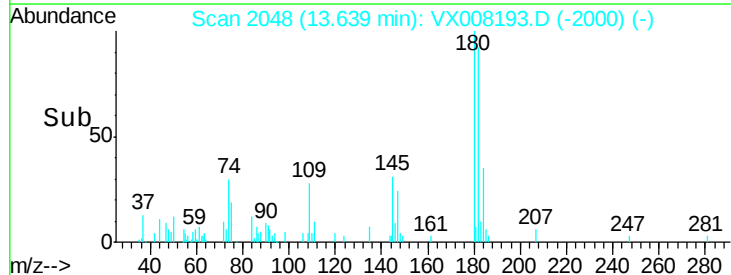
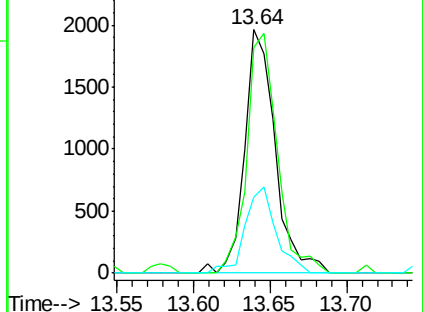
145 35.9 14.1 42.4

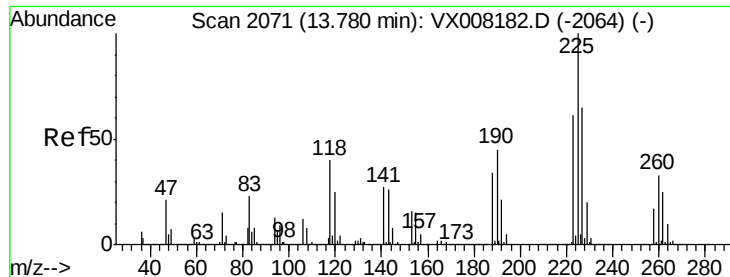


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.285 ug/l

RT: 13.79 min Scan# 2072

Delta R.T. 0.01 min

Lab File: VX008193.D

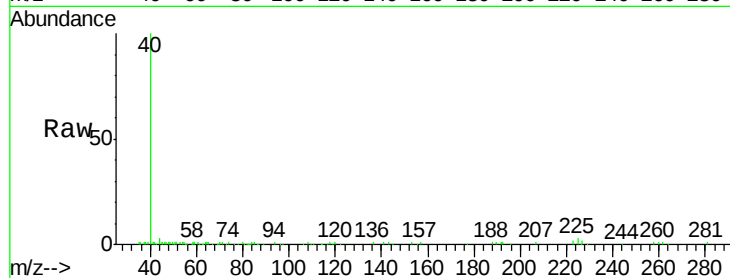
Acq: 19 Mar 2019 16:25

Instrument :

MSVOA_X

ClientSampleId :

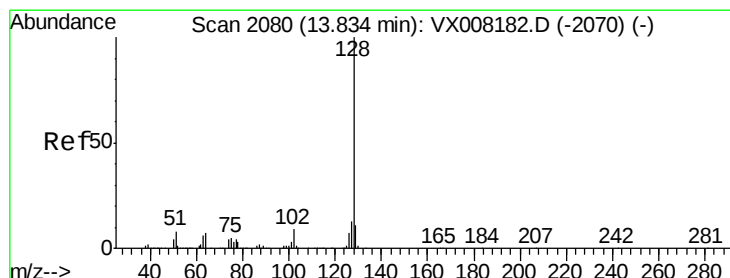
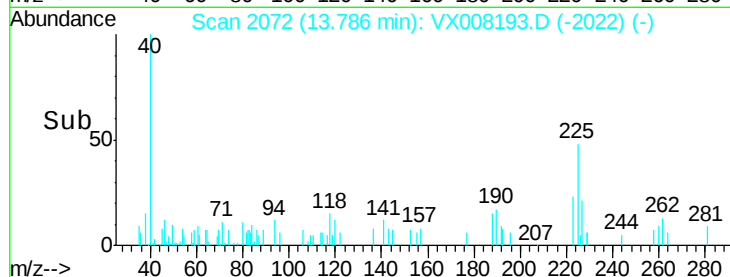
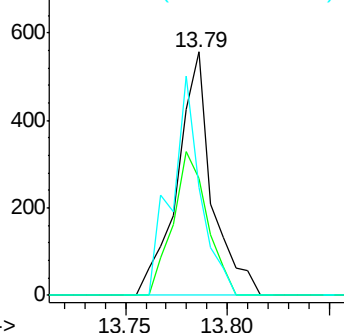
Tot Ion:	225	Resp:	659
Ion	Ratio	Lower	Upper
225	100		
223	58.1	31.1	93.2
227	74.5	32.0	96.0



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.256 ug/l

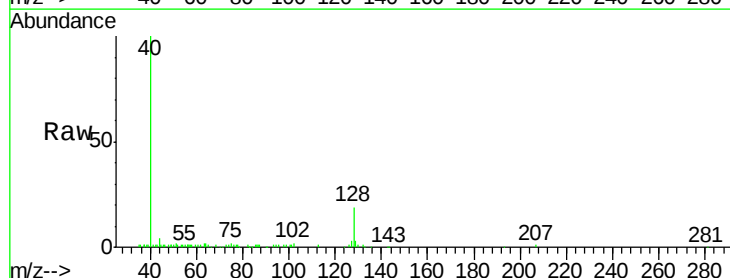
RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX008193.D

Acq: 19 Mar 2019 16:25

Tgt Ion:	128	Resp:	3830
Ion	Ratio	Lower	Upper
128	100		
127	14.9	10.3	15.5
129	12.3	8.7	13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

