

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062619\
 Data File : VX010454.D
 Acq On : 26 Jun 2019 11:52
 Operator : JC/SP
 Sample : K3527-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 01:11:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	257544	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	396428	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	355533	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	164155	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	120940	50.08	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.16%	
35) Dibromofluoromethane	5.50	113	120741	49.78	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.56%	
50) Toluene-d8	8.71	98	465510	50.17	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.34%	
62) 4-Bromofluorobenzene	11.13	95	156165	46.61	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	93.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	655	0.589	ug/l	86
6) Chloroethane	1.70	64	334	0.248	ug/l #	58
10) Methyl Iodide	2.52	142	1041	0.332	ug/l #	90
11) Tert butyl alcohol	3.02	59	2704	4.279	ug/l #	78
13) Acrolein	2.29	56	533	1.272	ug/l #	49
15) Acrylonitrile	3.15	53	514	0.411	ug/l #	69
16) Acetone	2.45	43	3767	3.113	ug/l	90
17) Carbon Disulfide	2.57	76	1448	0.242	ug/l #	79
25) 2-Butanone	4.70	43	952	0.536	ug/l #	78
36) 1,1-Dichloropropene	5.66	75	15675	4.976	ug/l #	38
38) Carbon Tetrachloride	5.66	117	22376	6.559	ug/l #	14
49) 1,4-Dioxane	7.76	88	27	0.376	ug/l #	1
60) Dibromochloromethane	9.34	129	8962	3.003	ug/l #	12
64) Tetrachloroethene	9.34	164	9705	3.375	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	72753	24.321	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	72753	56.739	ug/l #	16
93) 1,2,4-Trichlorobenzene	13.65	180	1332	0.356	ug/l	94
96) 1,2,3-Trichlorobenzene	14.02	180	880	0.237	ug/l	88

(#) = 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: VX010454.D

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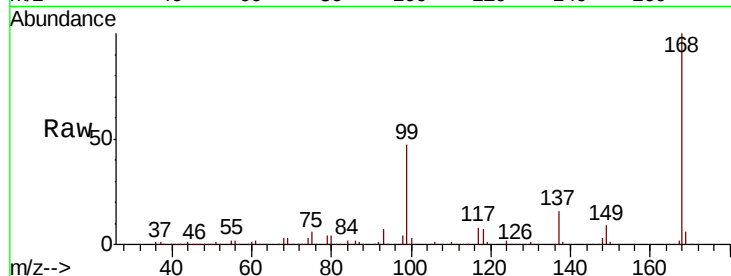
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 257544

Ion Ratio Lower Upper

168 100

99 46.7 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

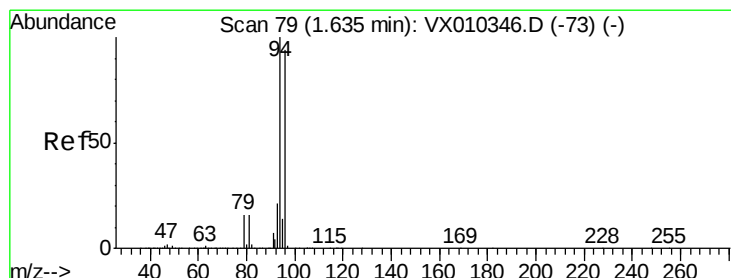
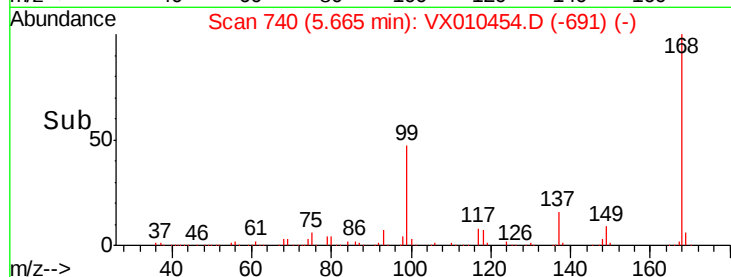
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.589 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010454.D

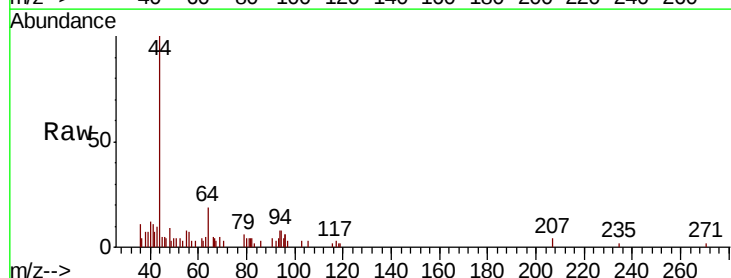
Acq: 26 Jun 2019 11:52

Tgt Ion: 94 Resp: 655

Ion Ratio Lower Upper

94 100

96 80.6 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

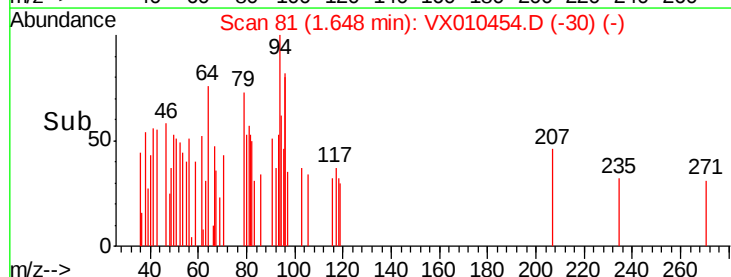
300

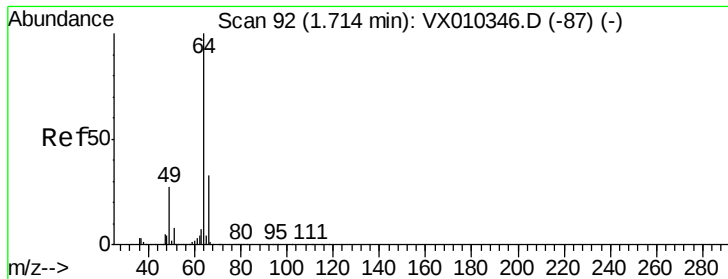
200

100

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.248 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX010454.D

Acq: 26 Jun 2019 11:52

Instrument :

MSVOA_X

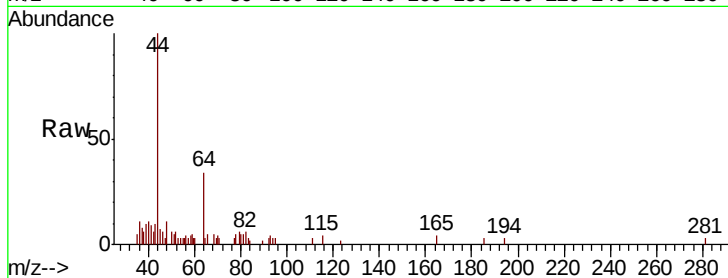
ClientSampleId :

Tot Ion: 64 Resp: 334

Ion Ratio Lower Upper

64 100

66 9.4 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

600

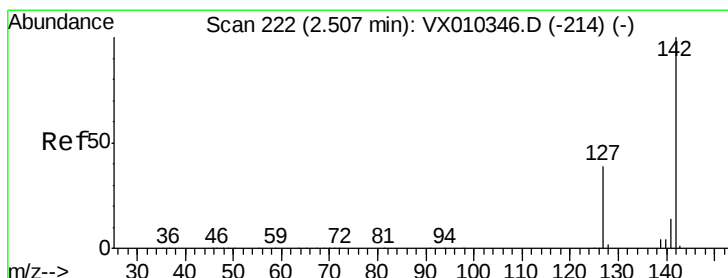
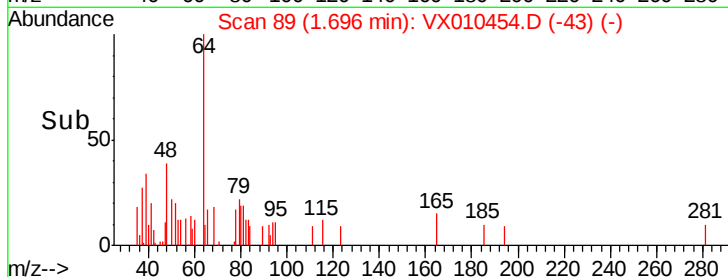
400

200

0

1.68 1.70 1.72

Time-->



#10

Methyl Iodide

Concen: 0.332 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX010454.D

Acq: 26 Jun 2019 11:52

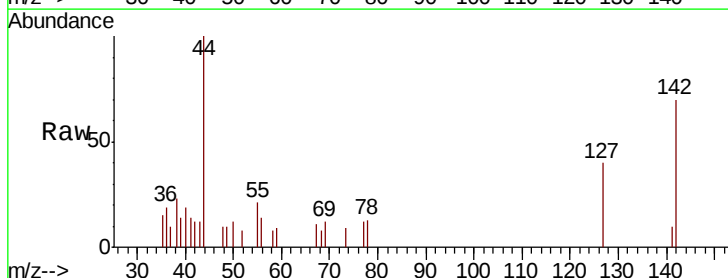
Tgt Ion: 142 Resp: 1041

Ion Ratio Lower Upper

142 100

127 43.3 31.1 46.7

141 7.4 11.2 16.8#



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

600

500

400

300

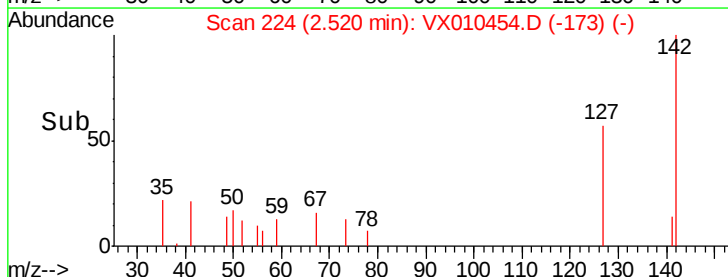
200

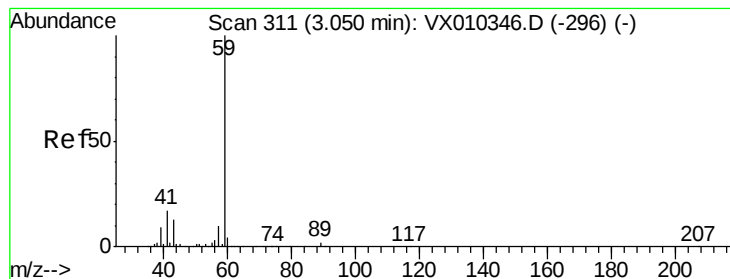
100

0

2.45 2.50 2.55 2.60

Time-->



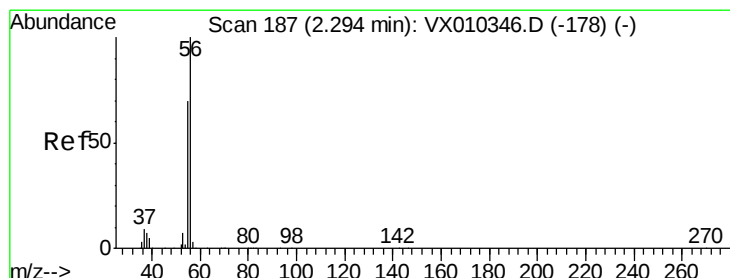
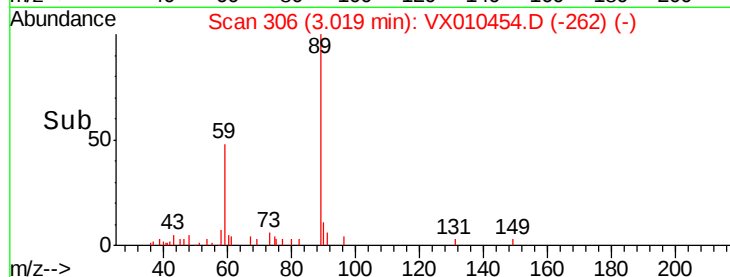
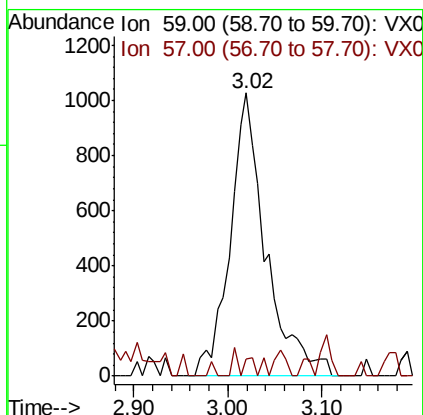
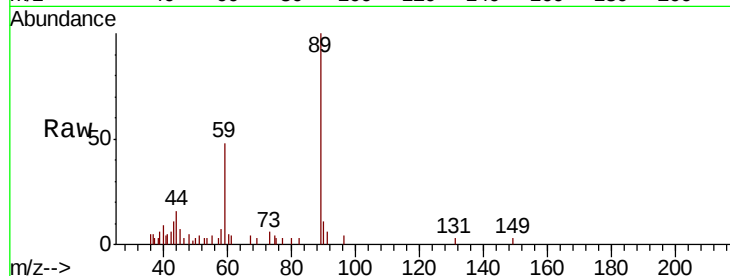


#11

Tert butyl alcohol
 Concen: 4.279 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VX010454.D
 Acq: 26 Jun 2019 11:52

Instrument :
 MSVOA_X
 ClientSampleId :

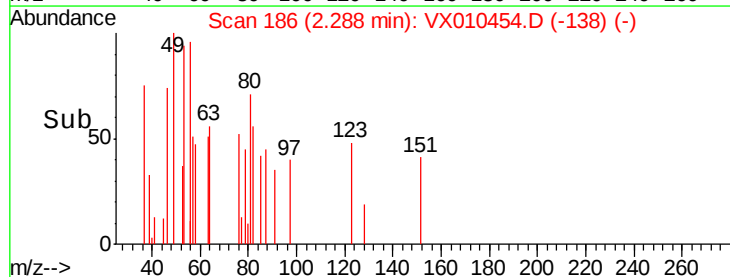
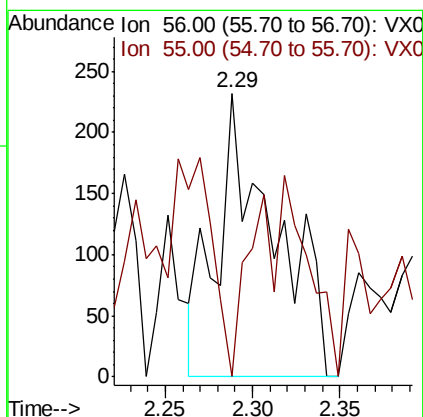
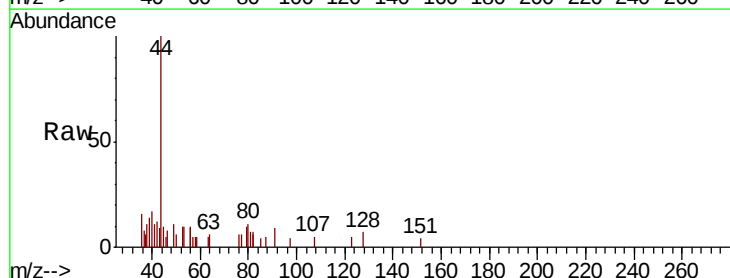
Tot Ion: 59 Resp: 2704
 Ion Ratio Lower Upper
 59 100
 57 1.4 7.7 11.5#

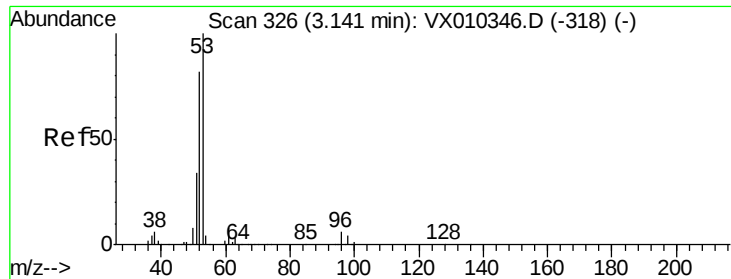


#13

Acrolein
 Concen: 1.272 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX010454.D
 Acq: 26 Jun 2019 11:52

Tgt Ion: 56 Resp: 533
 Ion Ratio Lower Upper
 56 100
 55 28.7 56.9 85.3#





#15

Acrylonitrile

Concen: 0.411 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

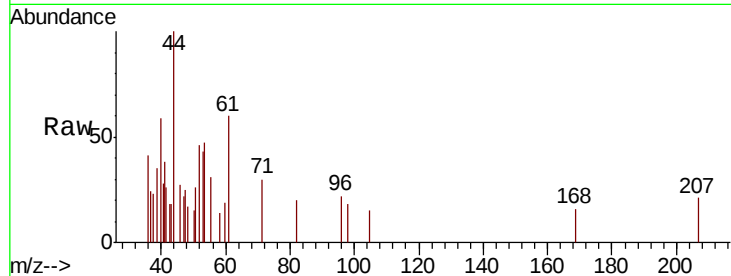
Lab File: VX010454.D

Acq: 26 Jun 2019 11:52

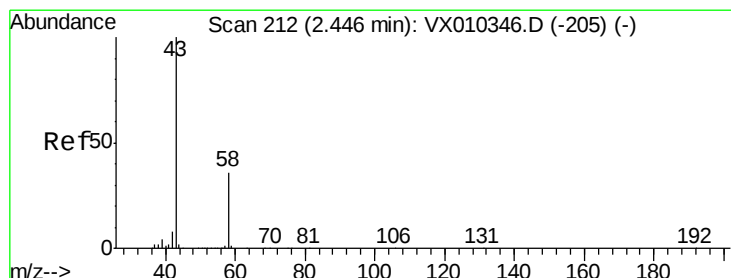
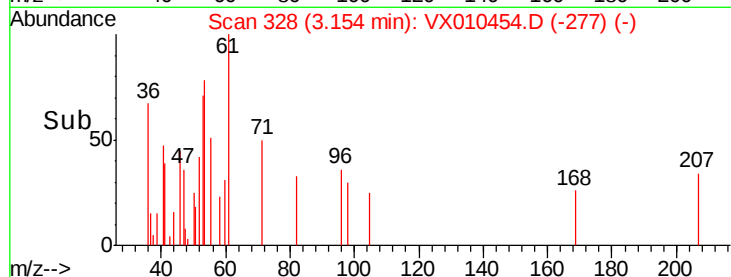
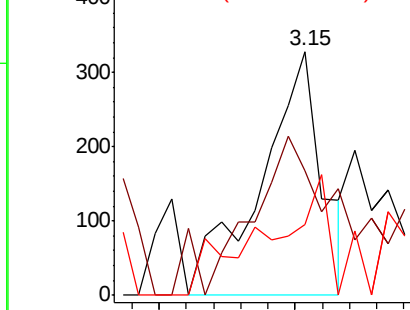
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 53 Resp: 514

Ion	Ratio	Lower	Upper
53	100		
52	108.4	65.5	98.3#
51	54.9	28.2	42.4#



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 3.113 ug/l

RT: 2.45 min Scan# 212

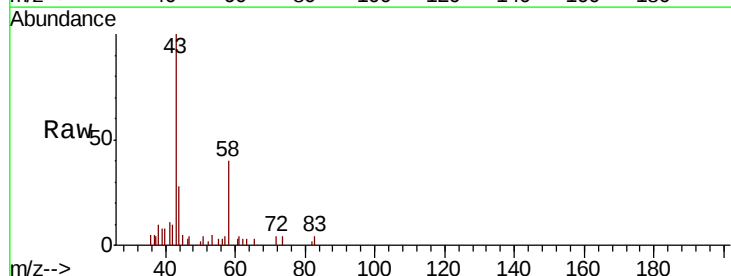
Delta R.T. 0.00 min

Lab File: VX010454.D

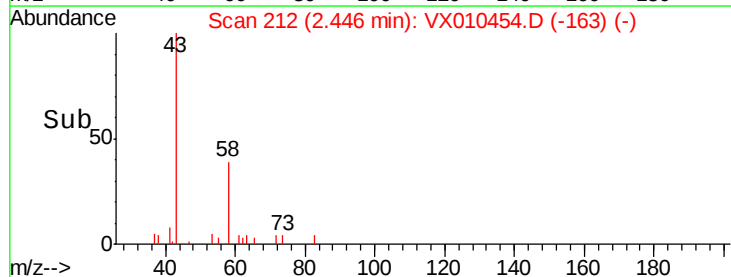
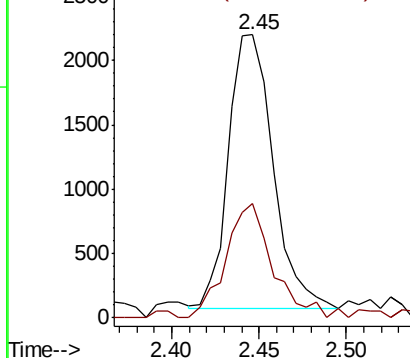
Acq: 26 Jun 2019 11:52

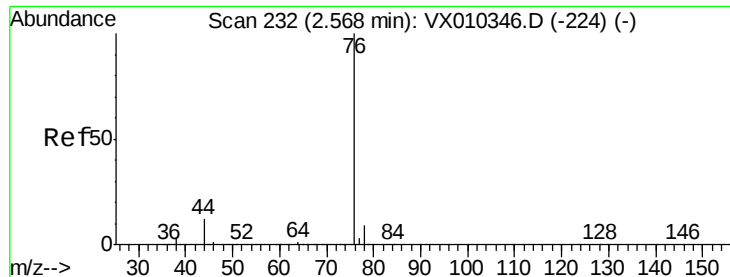
Tgt Ion: 43 Resp: 3767

Ion	Ratio	Lower	Upper
43	100		
58	41.8	28.9	43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

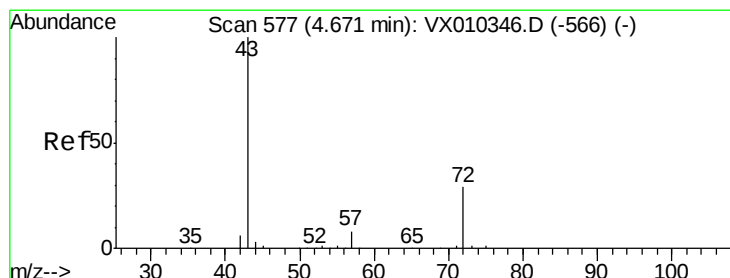
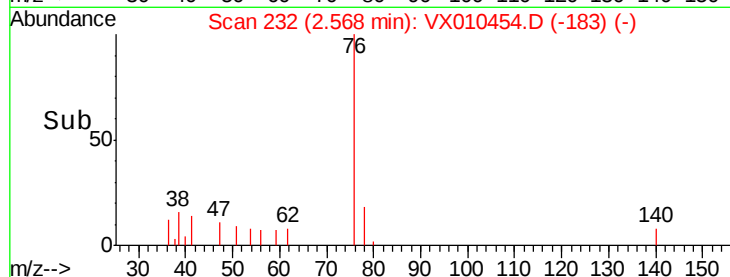
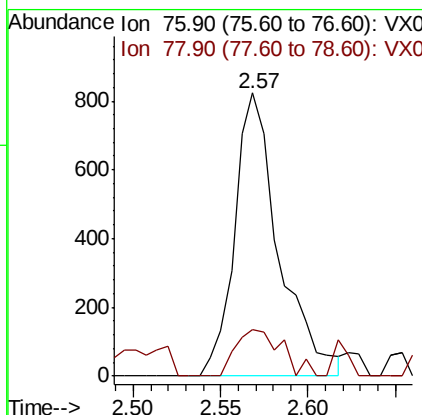
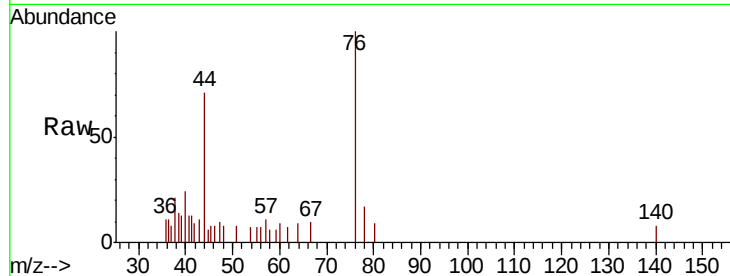




#17
Carbon Disulfide
Concen: 0.242 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX010454.D
Acq: 26 Jun 2019 11:52

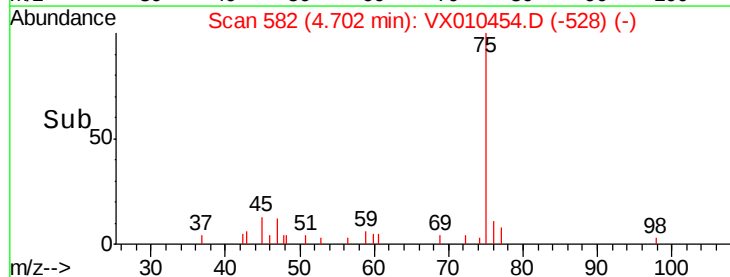
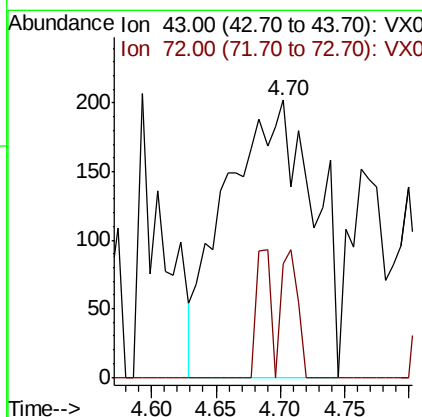
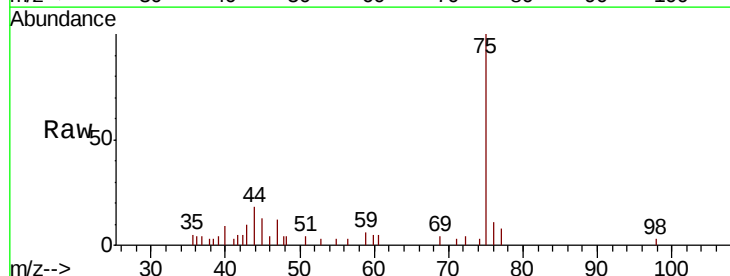
Instrument :
MSVOA_X
ClientSampleId :

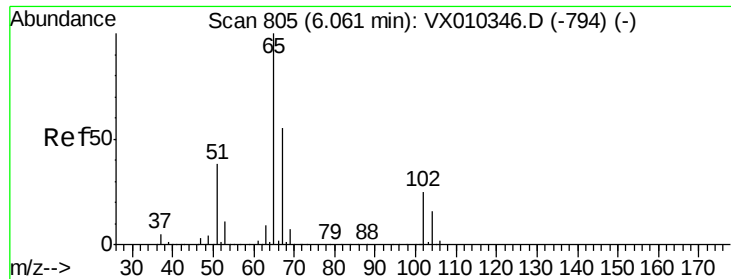
Tot Ion: 76 Resp: 1448
Ion Ratio Lower Upper
76 100
78 16.6 7.3 10.9#



#25
2-Butanone
Concen: 0.536 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.03 min
Lab File: VX010454.D
Acq: 26 Jun 2019 11:52

Tgt Ion: 43 Resp: 952
Ion Ratio Lower Upper
43 100
72 41.1 23.3 34.9#





#33

1,2-Dichloroethane-d4

Concen: 50.084 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010454.D

Acq: 26 Jun 2019 11:52

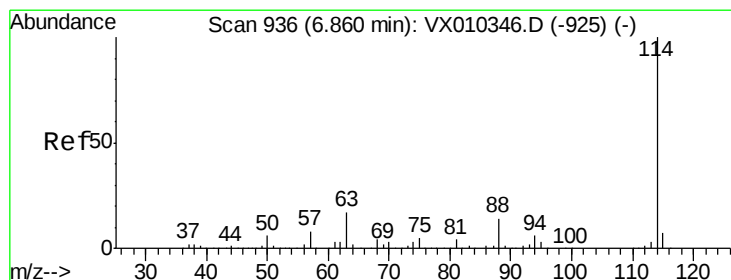
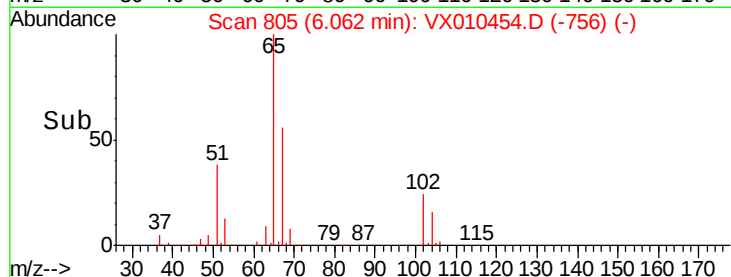
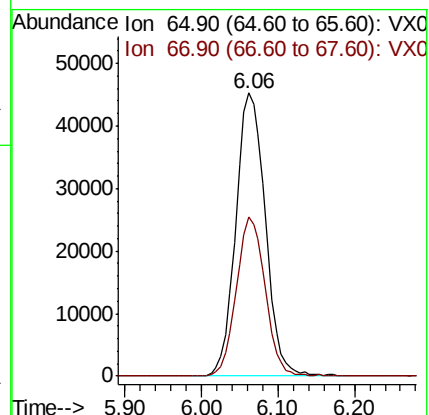
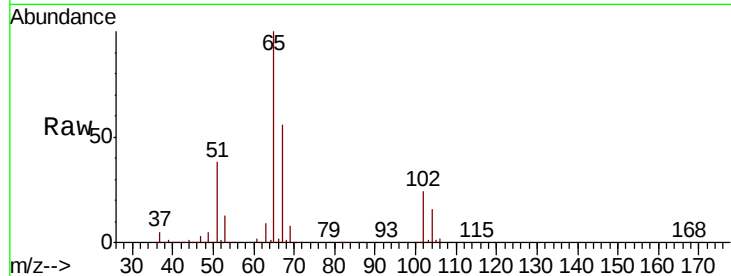
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 65 Resp: 120940

Ion Ratio Lower Upper

65 100

67 54.8 0.0 110.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010454.D

Acq: 26 Jun 2019 11:52

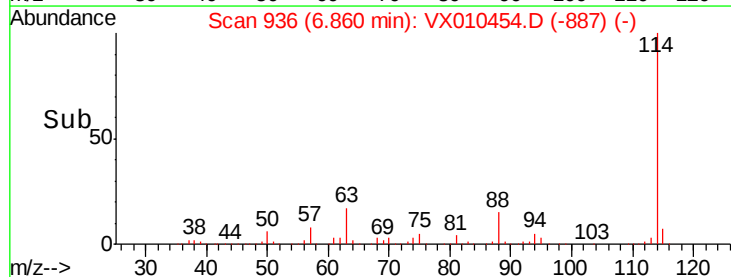
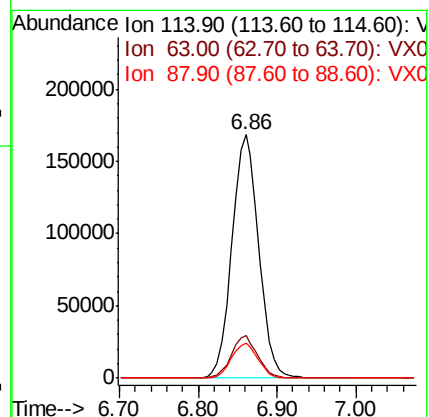
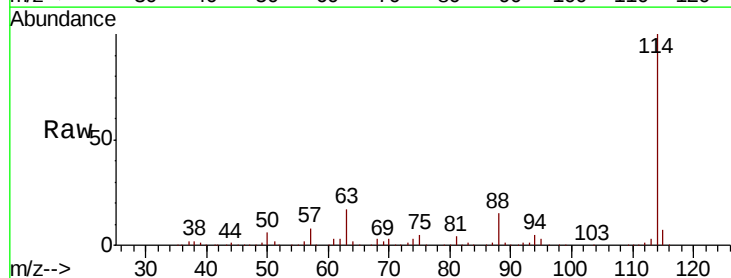
Tgt Ion: 114 Resp: 396428

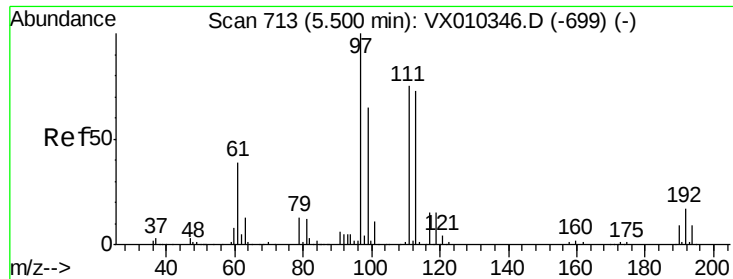
Ion Ratio Lower Upper

114 100

63 17.3 0.0 33.8

88 14.5 0.0 27.6

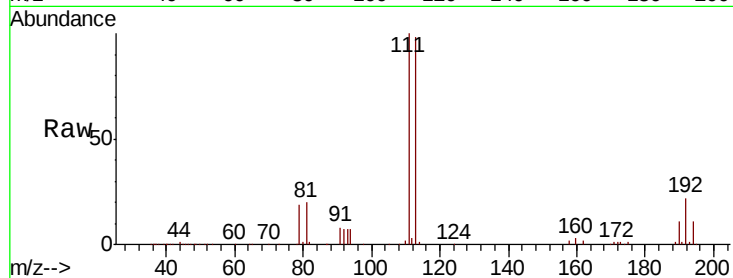




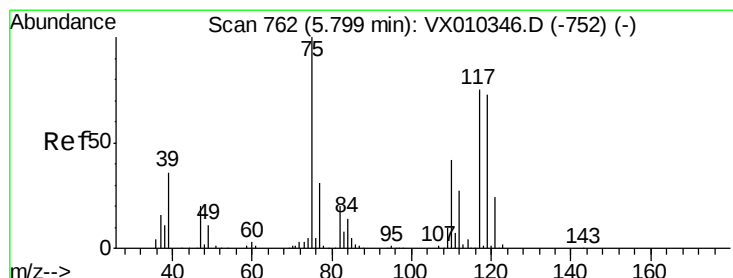
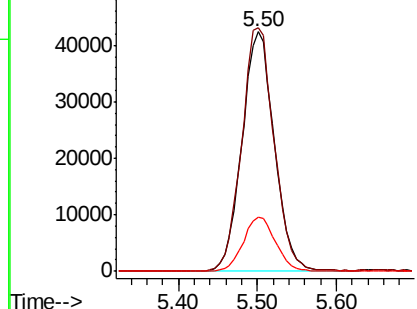
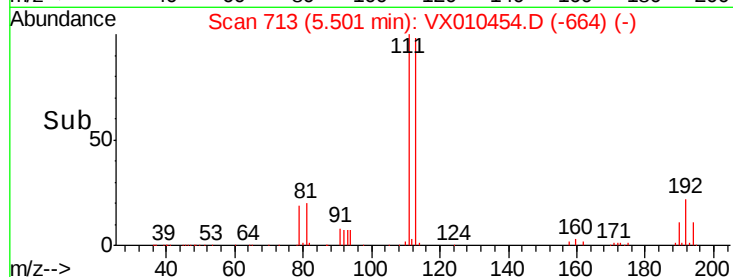
#35
 Dibromofluoromethane
 Concen: 49.780 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX010454.D
 Acq: 26 Jun 2019 11:52

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:113 Resp: 120741
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.2 121.8
 192 22.7 18.6 27.8

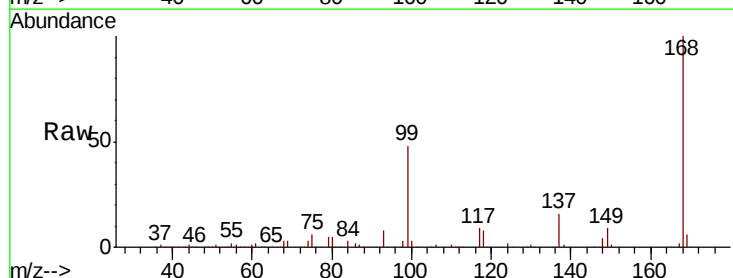


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

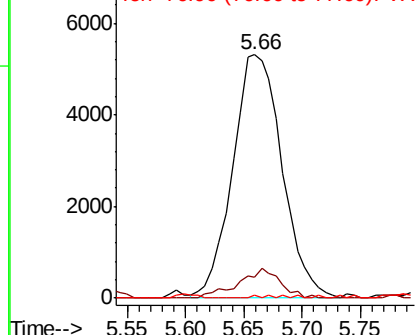
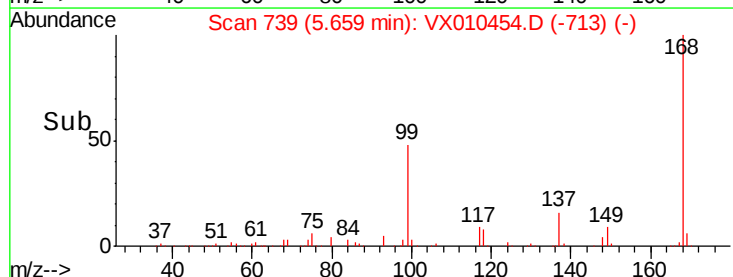


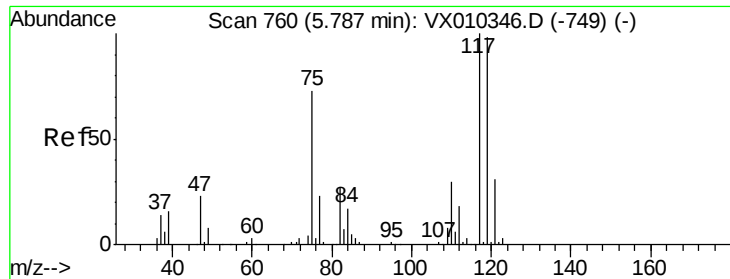
#36
 1,1-Dichloropropene
 Concen: 4.976 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010454.D
 Acq: 26 Jun 2019 11:52

Tgt Ion: 75 Resp: 15675
 Ion Ratio Lower Upper
 75 100
 110 0.0 20.8 62.2#
 77 0.1 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

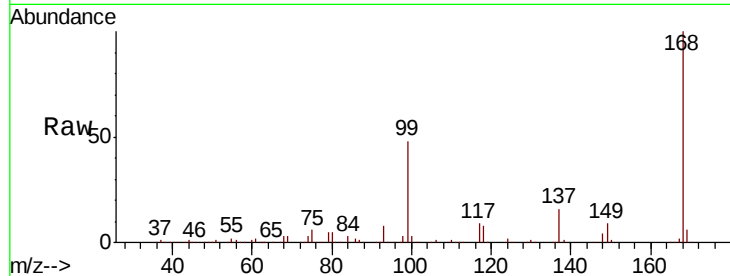




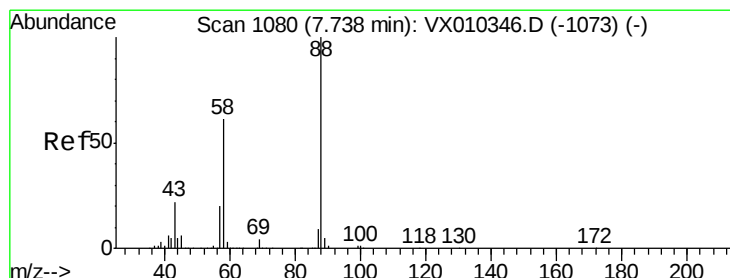
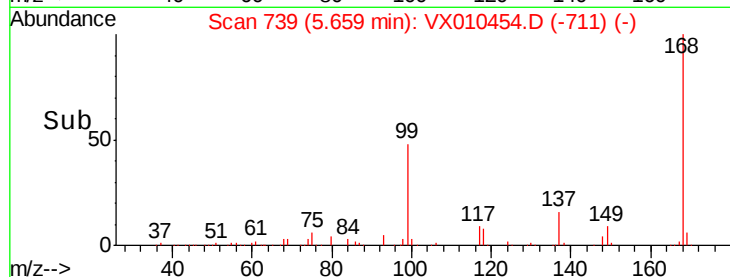
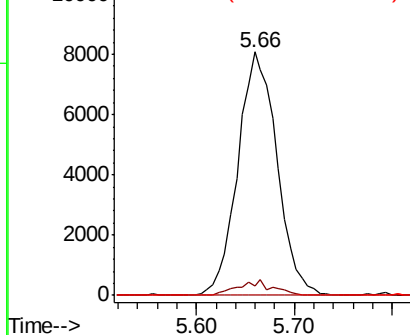
#38
Carbon Tetrachloride
Concen: 6.559 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX010454.D
Acq: 26 Jun 2019 11:52

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 22376
Ion Ratio Lower Upper
117 100
119 3.9 78.2 117.4#
121 0.0 24.7 37.1#

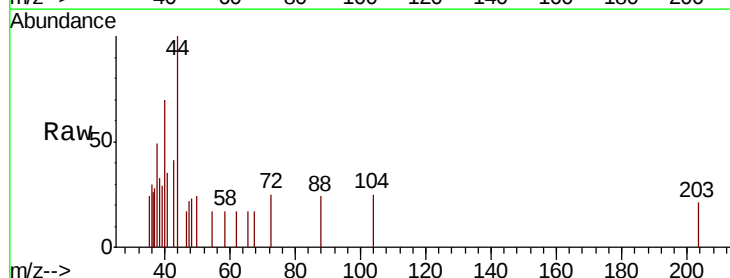


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

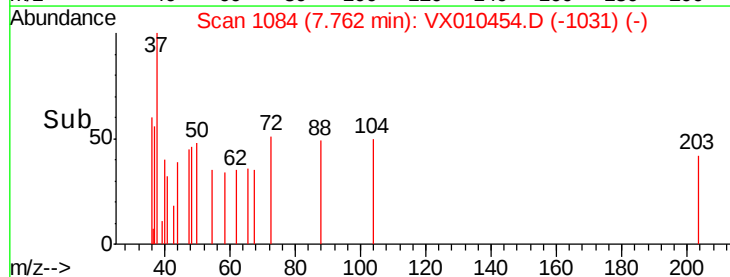
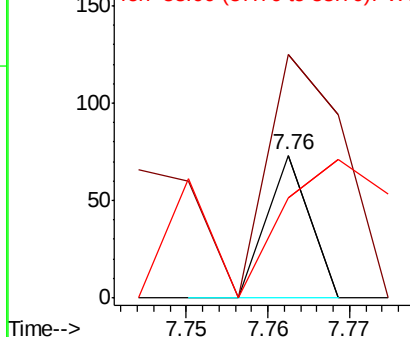


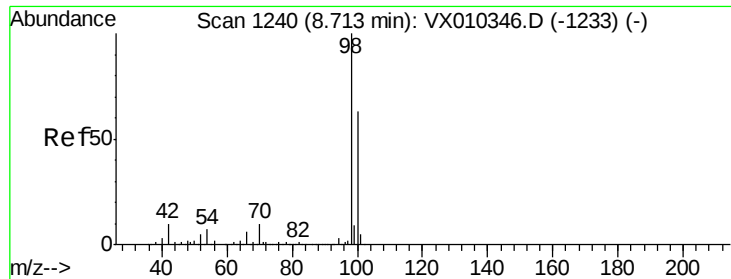
#49
1,4-Dioxane
Concen: 0.376 ug/l
RT: 7.76 min Scan# 1084
Delta R.T. 0.02 min
Lab File: VX010454.D
Acq: 26 Jun 2019 11:52

Tgt Ion: 88 Resp: 27
Ion Ratio Lower Upper
88 100
43 296.3 20.2 30.2#
58 318.5 49.5 74.3#



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: 50.166 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010454.D

Acq: 26 Jun 2019 11:52

Instrument :

MSVOA_X

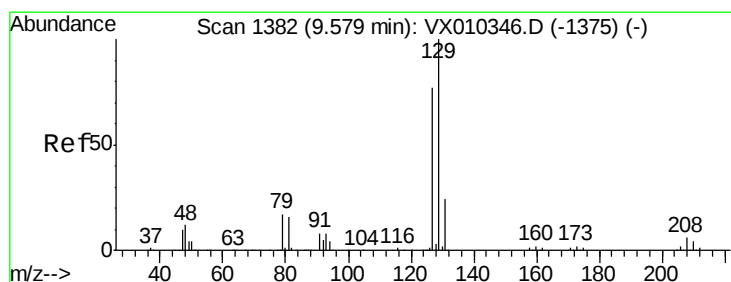
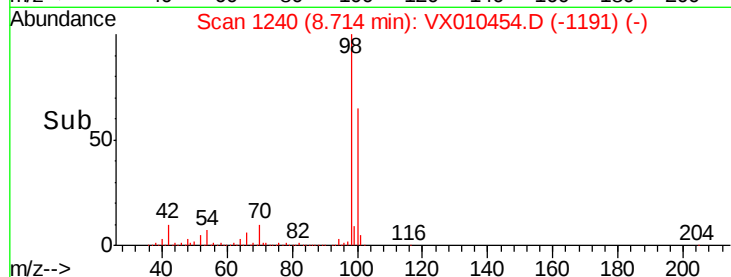
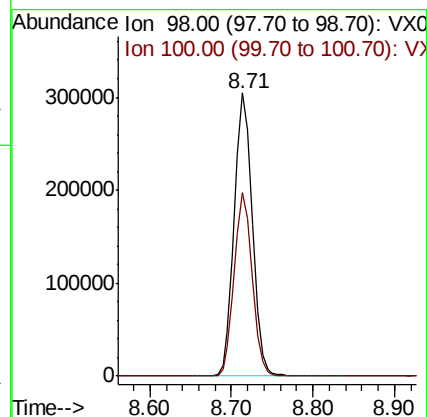
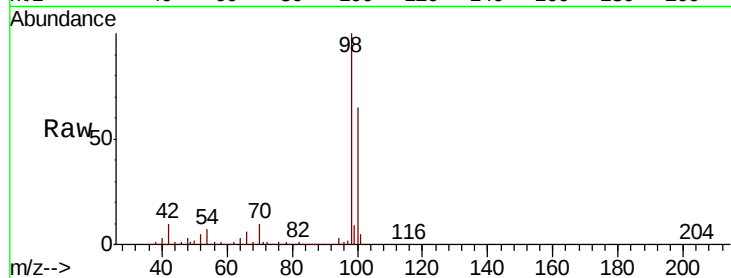
ClientSampleId :

Tot Ion: 98 Resp: 465510

Ion Ratio Lower Upper

98 100

100 64.2 51.6 77.4



#60

Dibromochloromethane

Concen: 3.003 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010454.D

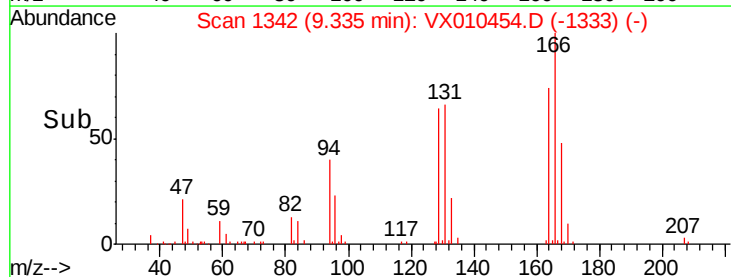
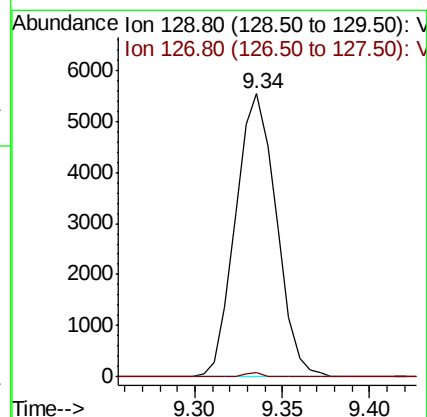
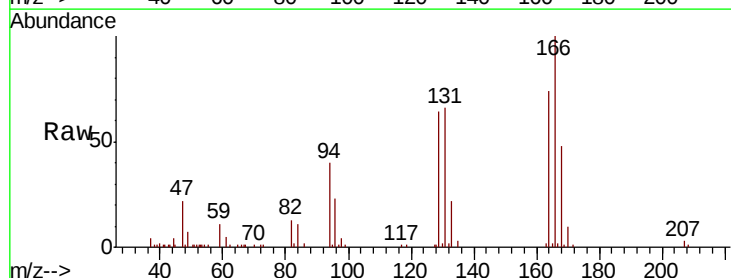
Acq: 26 Jun 2019 11:52

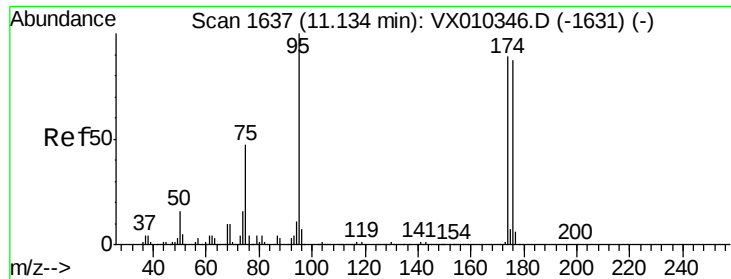
Tgt Ion: 129 Resp: 8962

Ion Ratio Lower Upper

129 100

127 0.5 38.4 115.1#





#62

4-Bromofluorobenzene

Concen: 46.614 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010454.D

Acq: 26 Jun 2019 11:52

Instrument :

MSVOA_X

ClientSampleId :

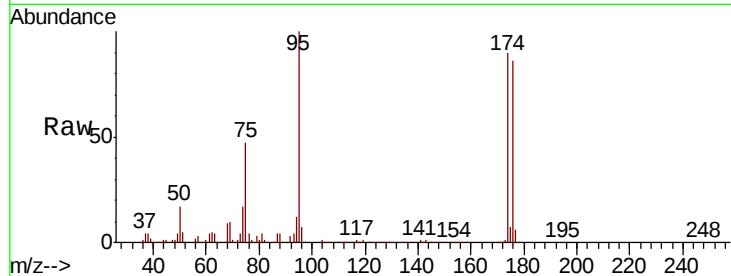
Tot Ion: 95 Resp: 156165

Ion Ratio Lower Upper

95 100

174 94.2 0.0 187.6

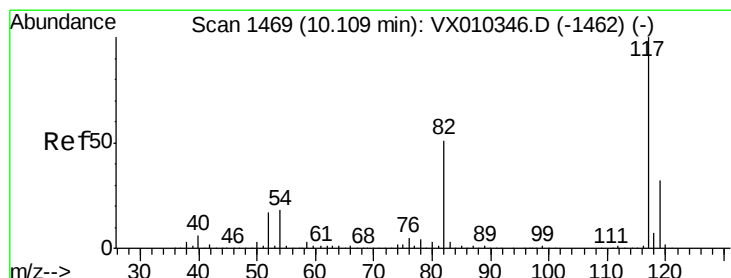
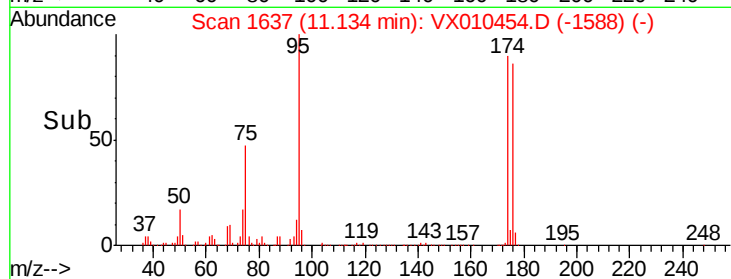
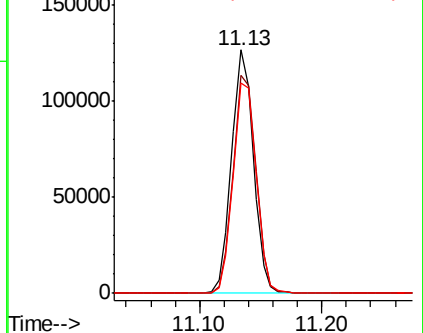
176 91.3 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010454.D

Acq: 26 Jun 2019 11:52

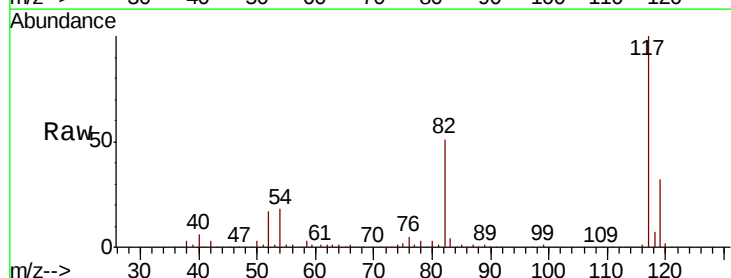
Tgt Ion: 117 Resp: 355533

Ion Ratio Lower Upper

117 100

82 50.7 41.2 61.8

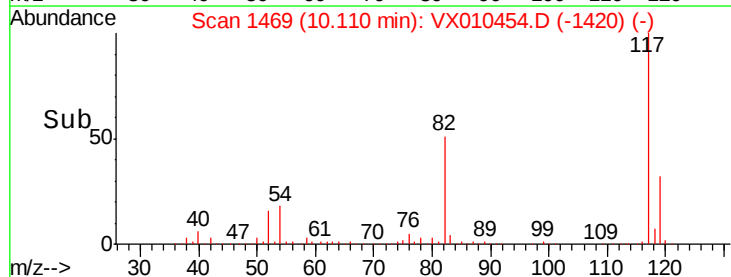
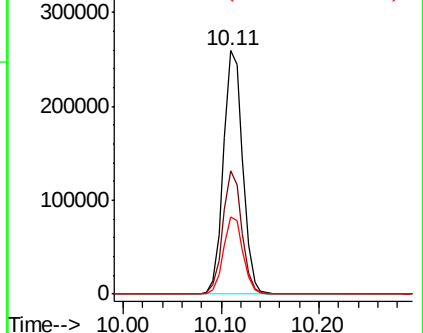
119 31.5 25.5 38.3

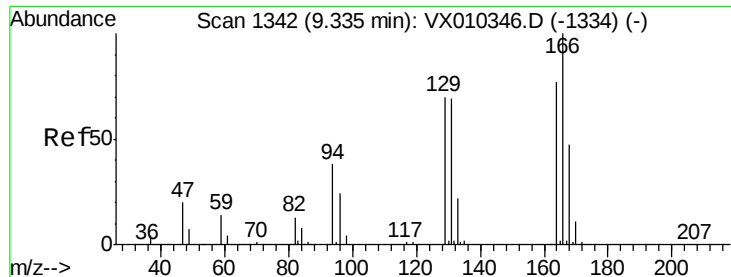


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 3.375 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX010454.D

Acq: 26 Jun 2019 11:52

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:164 Resp: 9705

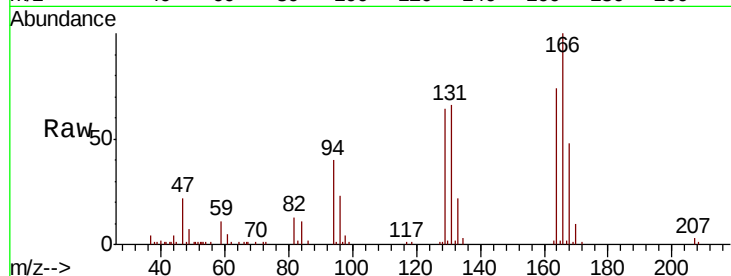
Ion Ratio Lower Upper

164 100

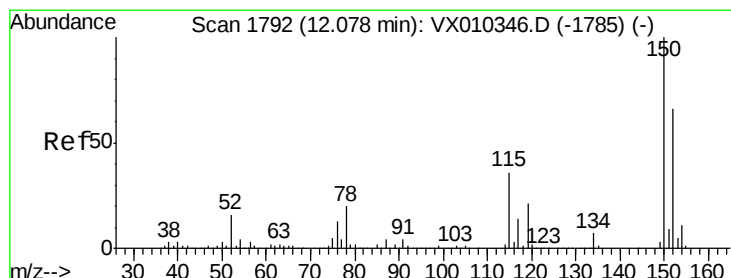
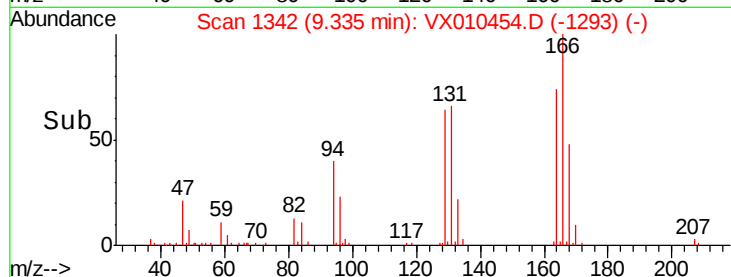
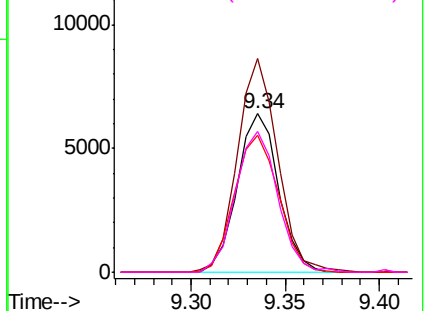
166 134.9 103.6 155.4

129 86.5 73.0 109.4

131 88.6 71.0 106.4



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010454.D

Acq: 26 Jun 2019 11:52

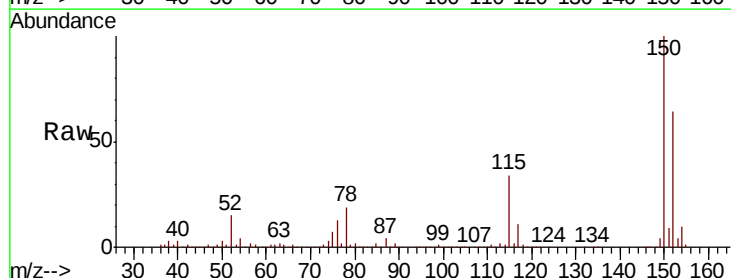
Tgt Ion:152 Resp: 164155

Ion Ratio Lower Upper

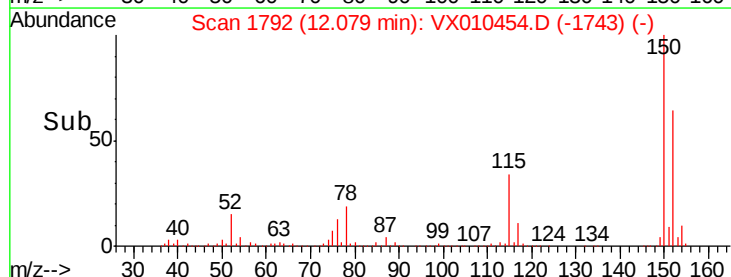
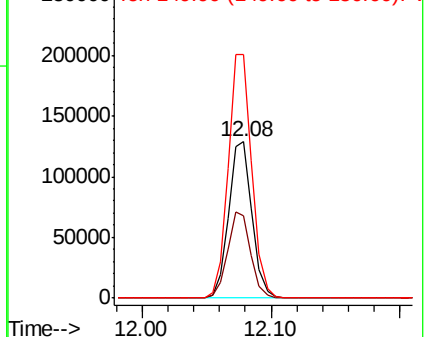
152 100

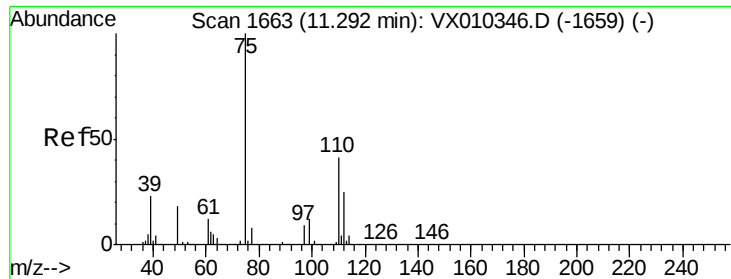
115 54.4 38.6 115.7

150 156.9 0.0 347.4



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

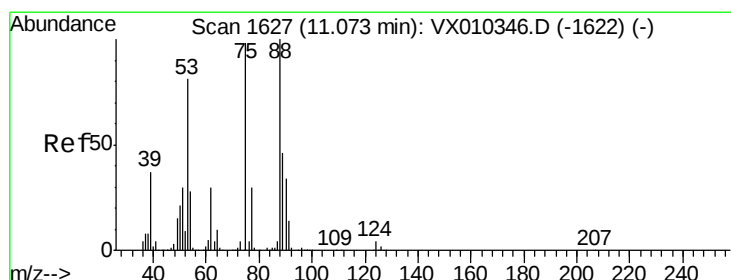
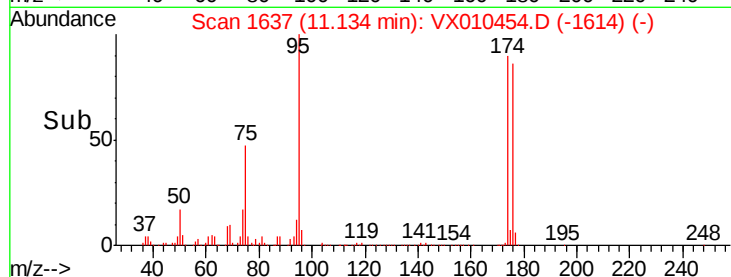
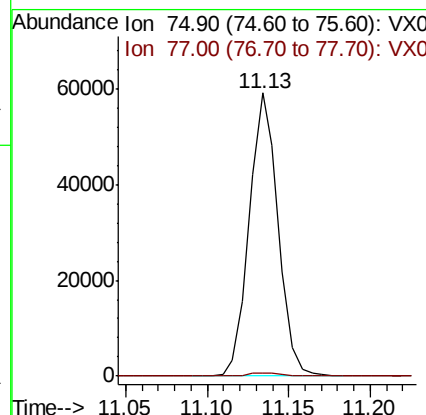
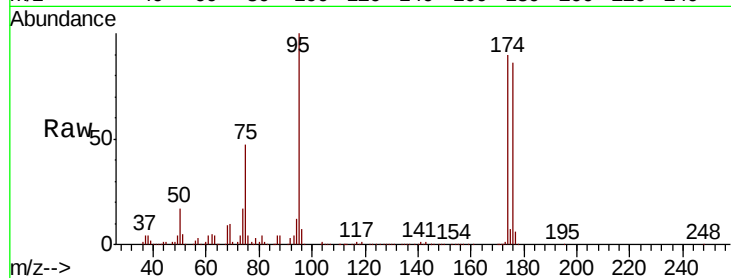




#76
 1,2,3-Trichloropropane
 Concen: 24.321 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010454.D
 Acq: 26 Jun 2019 11:52

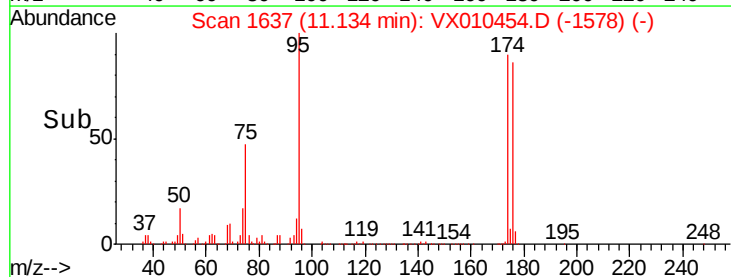
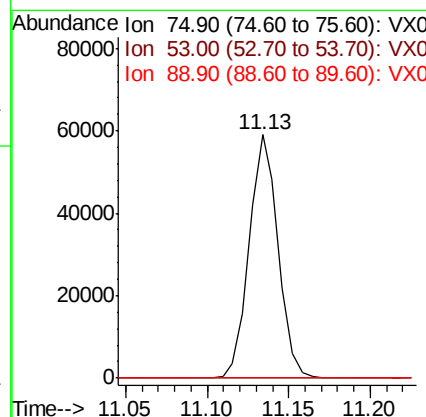
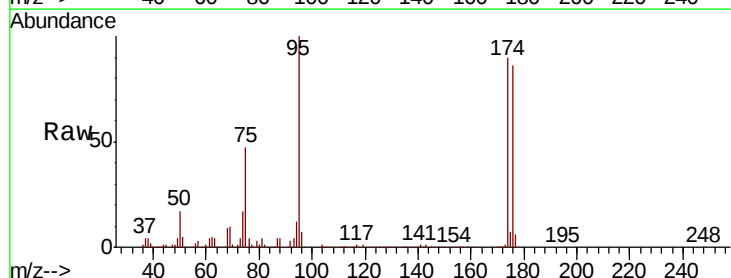
Instrument :
 MSVOA_X
 ClientSampleId :

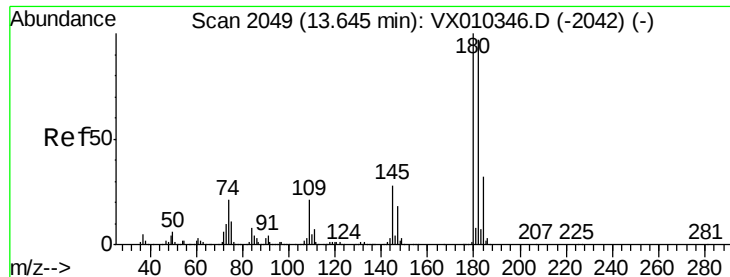
Tot Ion: 75 Resp: 72753
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.6 67.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.739 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010454.D
 Acq: 26 Jun 2019 11:52

Tgt Ion: 75 Resp: 72753
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.1 99.1#
 89 0.0 37.8 56.6#

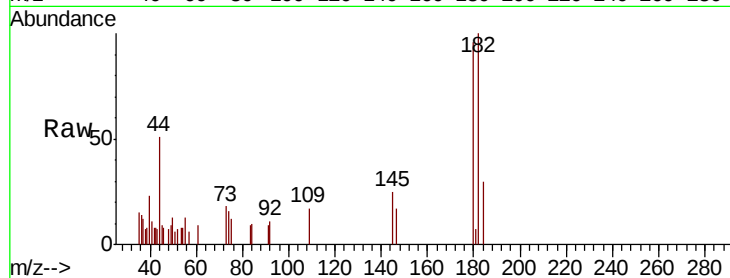




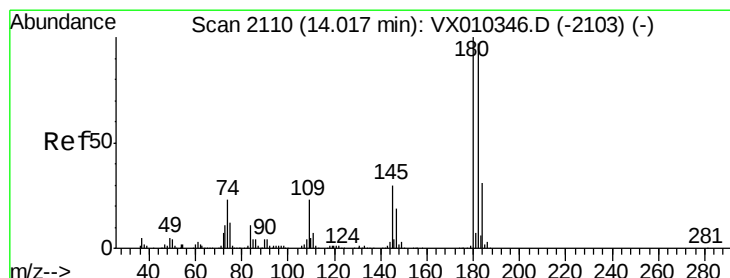
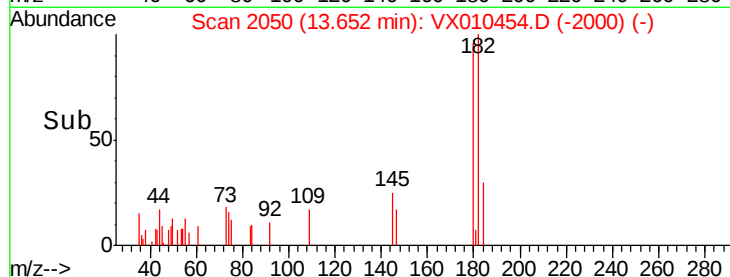
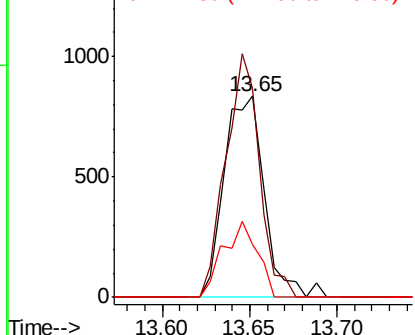
#93
 1,2,4-Trichlorobenzene
 Concen: 0.356 ug/l
 RT: 13.65 min Scan# 2050
 Delta R.T. 0.01 min
 Lab File: VX010454.D
 Acq: 26 Jun 2019 11:52

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.7	48.0	144.0
145	32.2	14.4	43.4

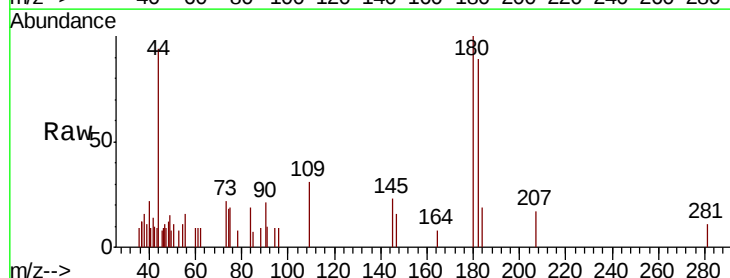


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#96
 1,2,3-Trichlorobenzene
 Concen: 0.237 ug/l
 RT: 14.02 min Scan# 2110
 Delta R.T. 0.00 min
 Lab File: VX010454.D
 Acq: 26 Jun 2019 11:52

Tgt Ion	Ratio	Lower	Upper
180	100		
182	85.7	47.8	143.3
145	21.5	15.2	45.6



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

