

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062619\
 Data File : VX010464.D
 Acq On : 26 Jun 2019 15:46
 Operator : JC/SP
 Sample : K3527-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 01:13:16 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	245862	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	379813	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	338422	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	147228	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	117566	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	
35) Dibromofluoromethane	5.50	113	114927	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
50) Toluene-d8	8.71	98	442658	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	
62) 4-Bromofluorobenzene	11.13	95	140615	43.81	ug/l	0.00
Spiked Amount			Recovery	=	87.62%	

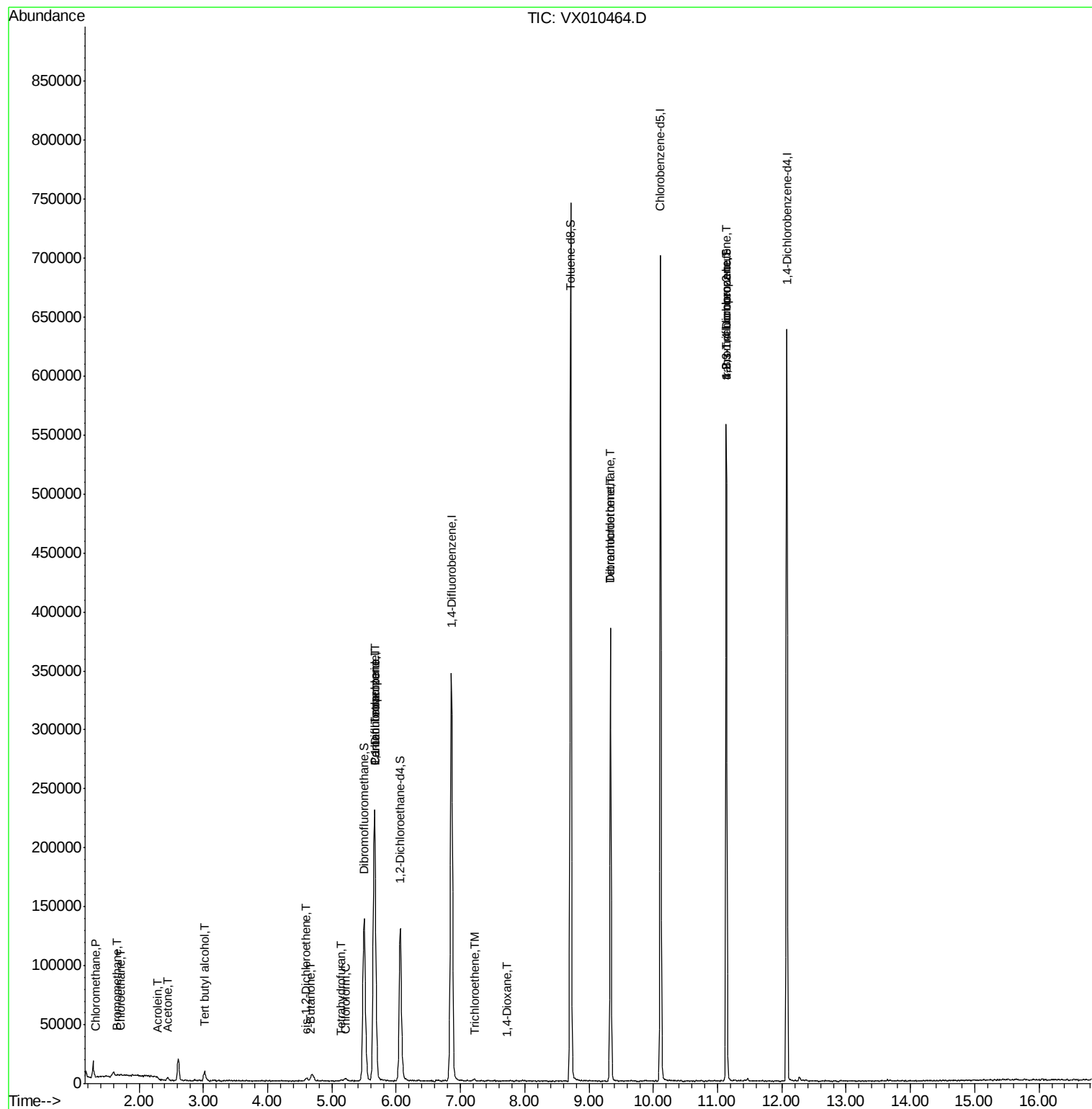
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	473	0.238	ug/l	100
5) Bromomethane	1.65	94	292	0.275	ug/l #	43
6) Chloroethane	1.71	64	417	0.324	ug/l #	44
11) Tert butyl alcohol	3.02	59	4952	8.210	ug/l #	85
13) Acrolein	2.29	56	103	0.257	ug/l #	1
16) Acetone	2.45	43	3338	2.889	ug/l	94
25) 2-Butanone	4.66	43	339	0.200	ug/l #	46
27) cis-1,2-Dichloroethene	4.60	96	1543	0.583	ug/l	84
29) Tetrahydrofuran	5.13	42	545	0.519	ug/l #	78
30) Chloroform	5.22	83	2139	0.544	ug/l	99
36) 1,1-Dichloropropene	5.66	75	14967	4.959	ug/l #	47
38) Carbon Tetrachloride	5.67	117	21993	6.729	ug/l #	14
44) Trichloroethene	7.21	130	781	0.278	ug/l	73
49) 1,4-Dioxane	7.73	88	20	0.291	ug/l #	1
60) Dibromochloromethane	9.34	129	69257	24.220	ug/l #	11
64) Tetrachloroethene	9.34	164	76364	27.898	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	67376	25.113	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	67376	58.587	ug/l #	16

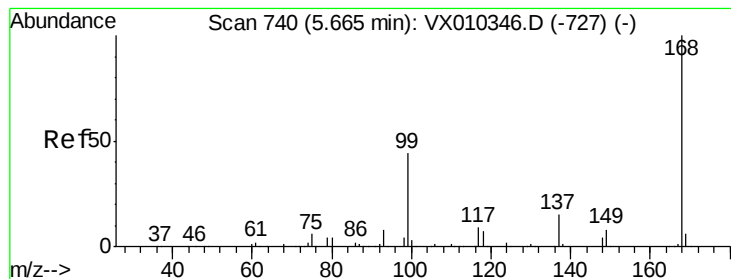
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jun 20 03:31:56 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010464.D

Acq: 26 Jun 2019 15:46

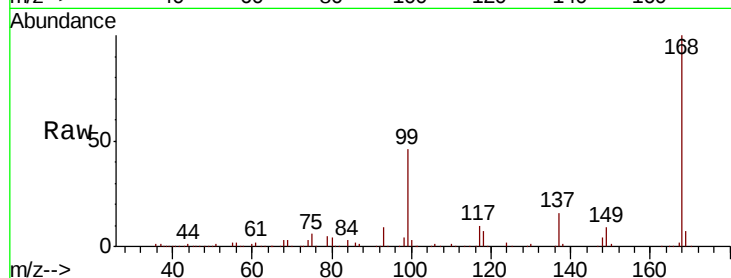
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 245862

Ion Ratio Lower Upper

168 100

99 46.3 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

80000

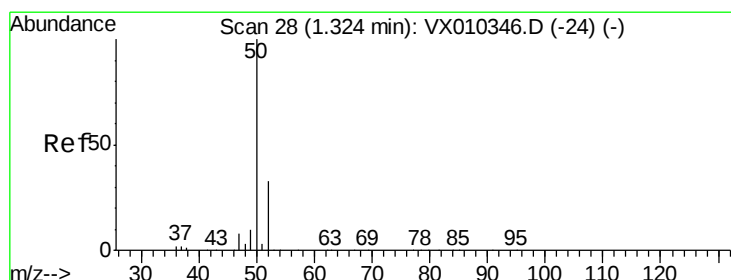
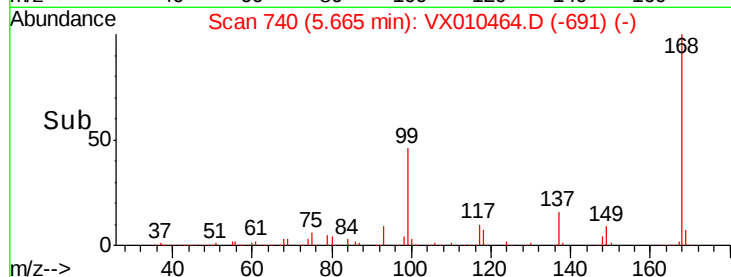
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.238 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX010464.D

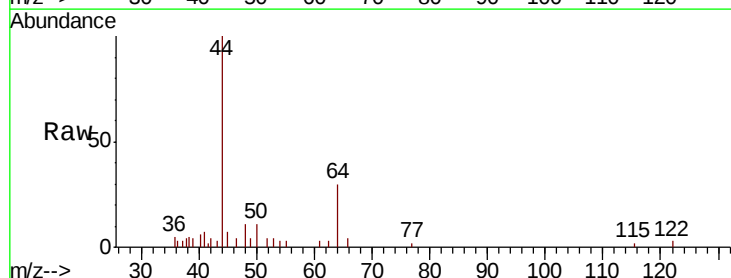
Acq: 26 Jun 2019 15:46

Tgt Ion: 50 Resp: 473

Ion Ratio Lower Upper

50 100

52 33.3 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

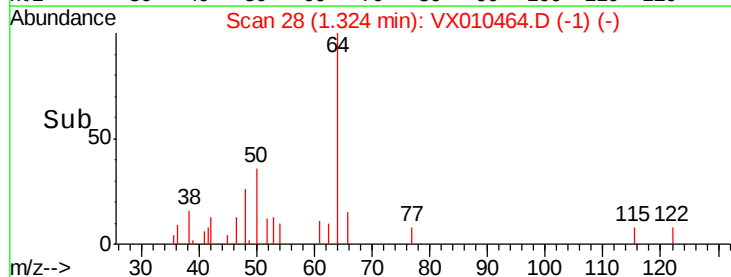
300

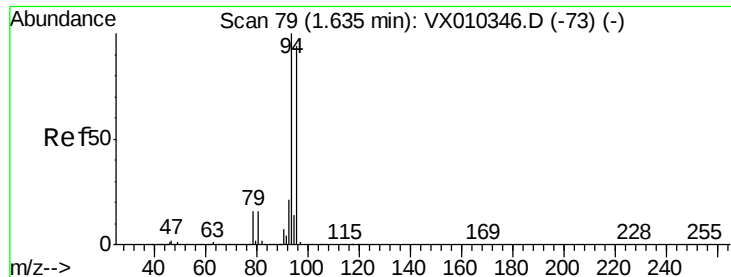
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.275 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010464.D

Acq: 26 Jun 2019 15:46

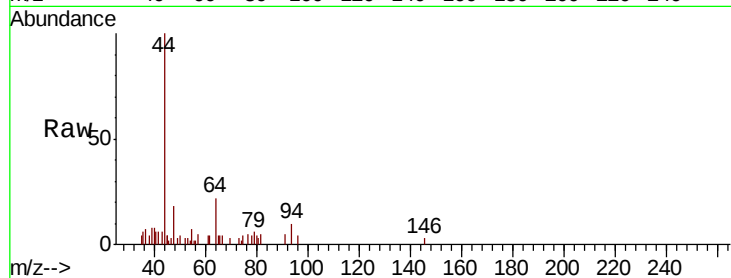
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 292

Ion Ratio Lower Upper

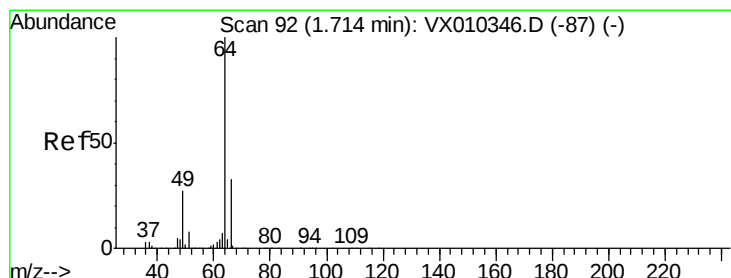
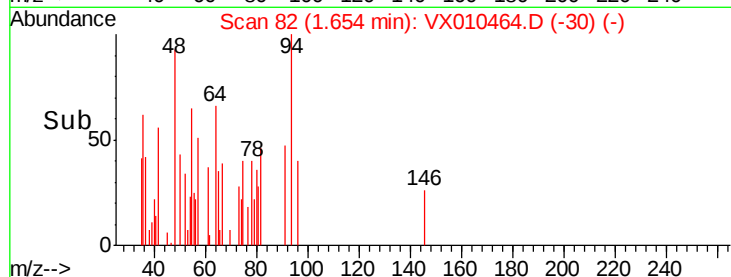
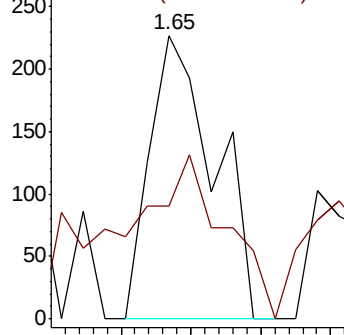
94 100

96 39.6 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.324 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX010464.D

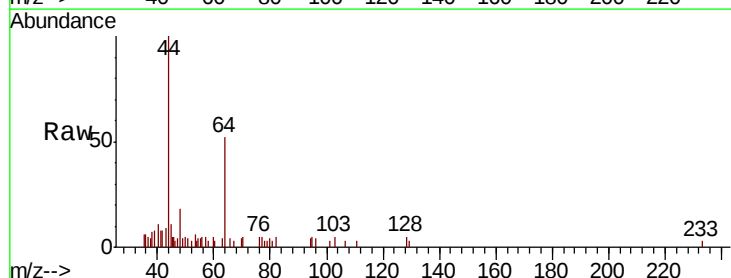
Acq: 26 Jun 2019 15:46

Tgt Ion: 64 Resp: 417

Ion Ratio Lower Upper

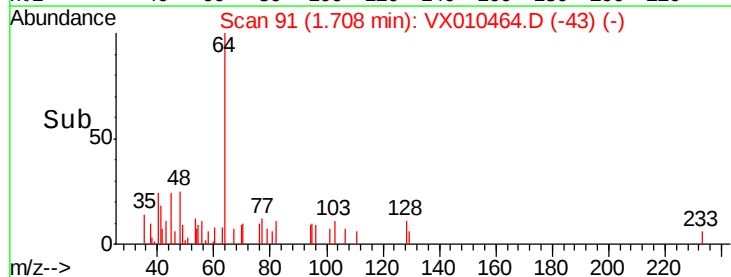
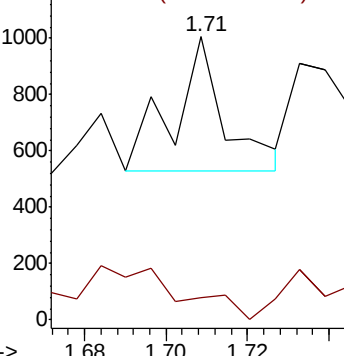
64 100

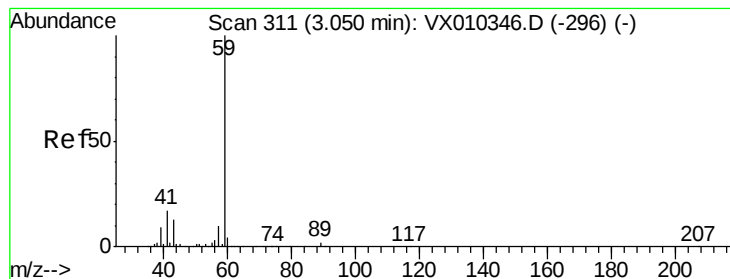
66 1.5 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



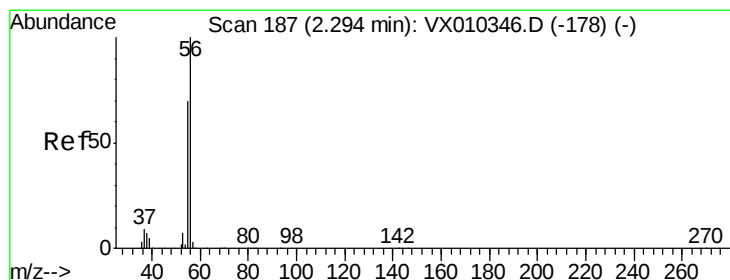
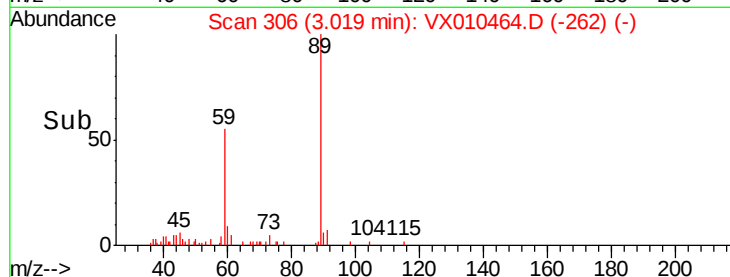
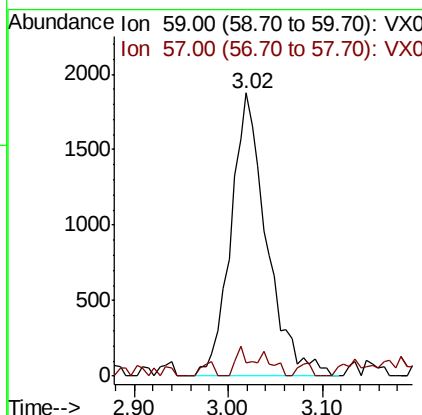
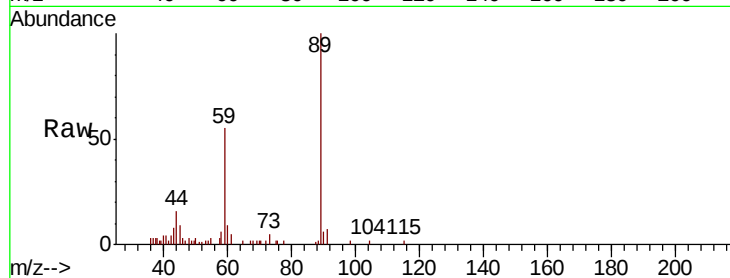


#11

Tert butyl alcohol
 Concen: 8.210 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VX010464.D
 Acq: 26 Jun 2019 15:46

Instrument :
 MSVOA_X
 ClientSampleId :

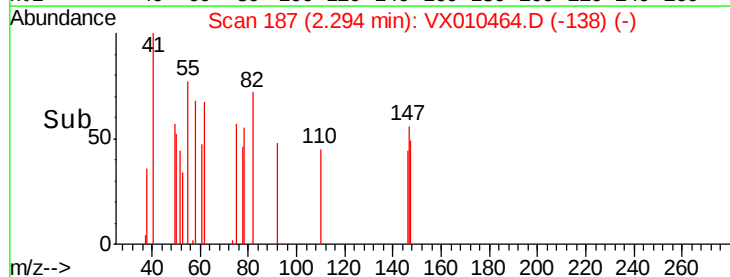
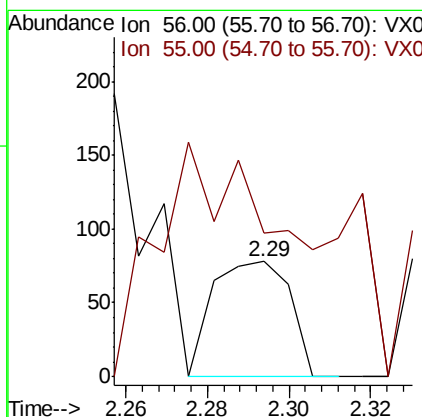
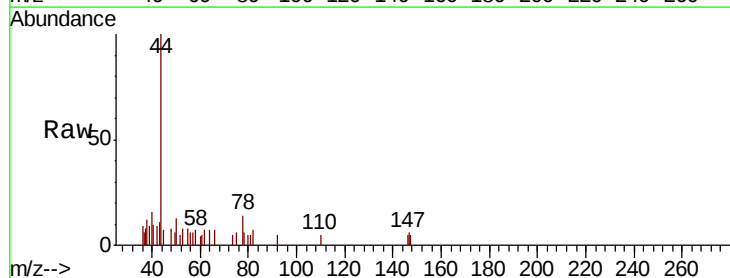
Tot Ion: 59 Resp: 4952
 Ion Ratio Lower Upper
 59 100
 57 4.2 7.7 11.5#

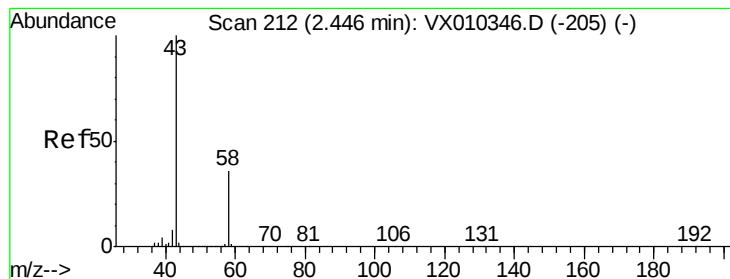


#13

Acrolein
 Concen: 0.257 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. 0.00 min
 Lab File: VX010464.D
 Acq: 26 Jun 2019 15:46

Tgt Ion: 56 Resp: 103
 Ion Ratio Lower Upper
 56 100
 55 387.4 56.9 85.3#





#16

Acetone

Concen: 2.889 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010464.D

Acq: 26 Jun 2019 15:46

Instrument :

MSVOA_X

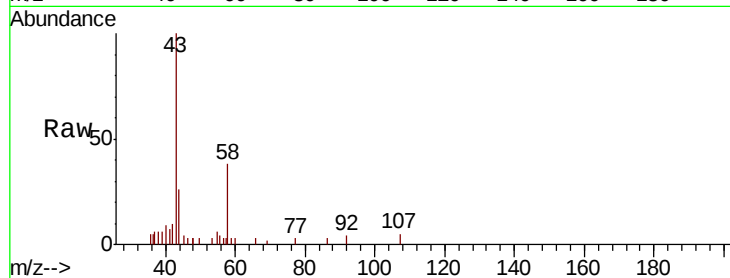
ClientSampleId :

Tot Ion: 43 Resp: 3338

Ion Ratio Lower Upper

43 100

58 39.3 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

2000

1500

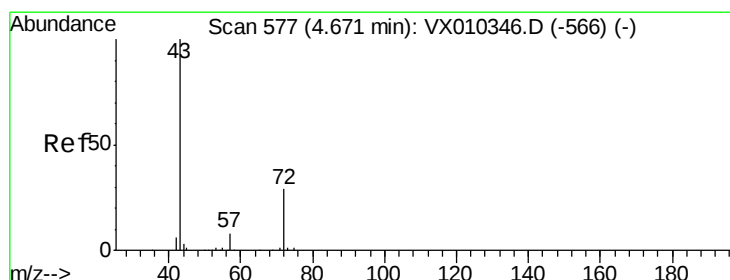
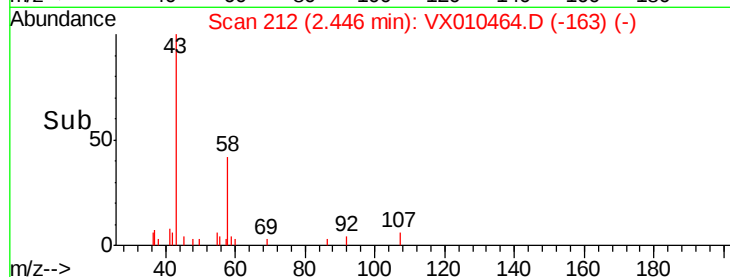
1000

500

0

Time-->

2.40 2.45 2.50



#25

2-Butanone

Concen: 0.200 ug/l

RT: 4.66 min Scan# 575

Delta R.T. -0.01 min

Lab File: VX010464.D

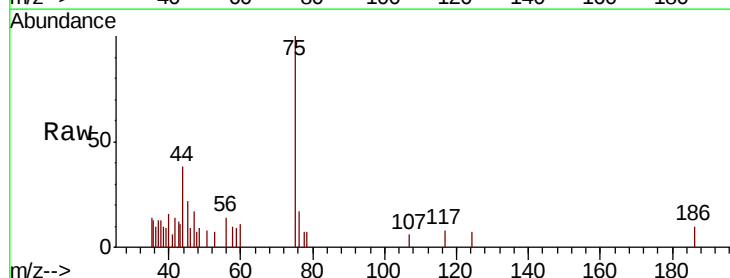
Acq: 26 Jun 2019 15:46

Tgt Ion: 43 Resp: 339

Ion Ratio Lower Upper

43 100

72 0.0 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

250

200

150

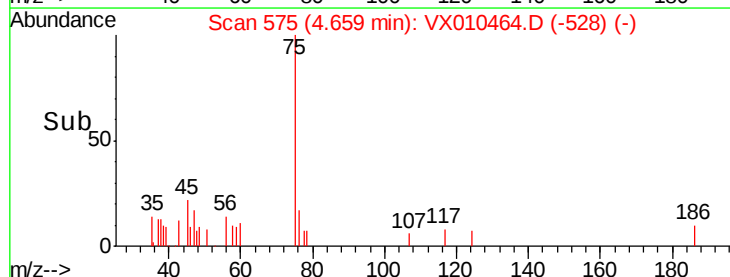
100

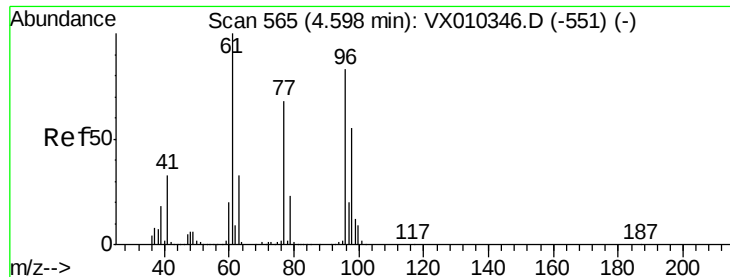
50

0

Time-->

4.65 4.66 4.67



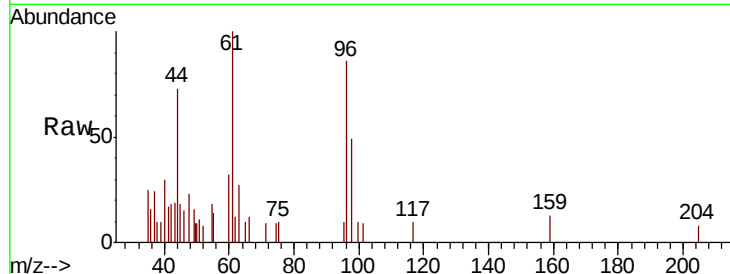


#27

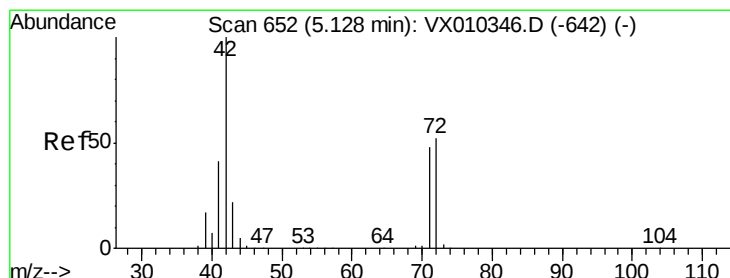
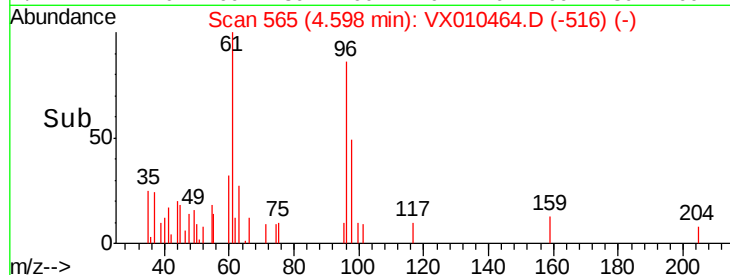
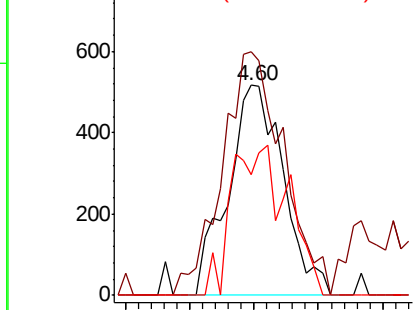
cis-1,2-Dichloroethene
 Concen: 0.583 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX010464.D
 Acq: 26 Jun 2019 15:46

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 96 Resp: 1543
 Ion Ratio Lower Upper
 96 100
 61 128.6 0.0 251.8
 98 31.2 0.0 129.4



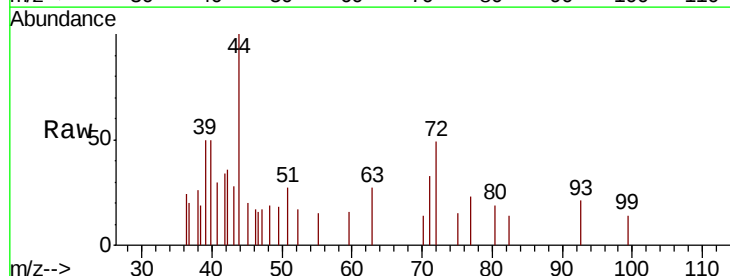
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



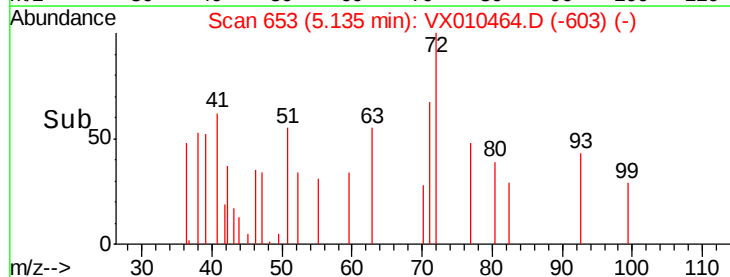
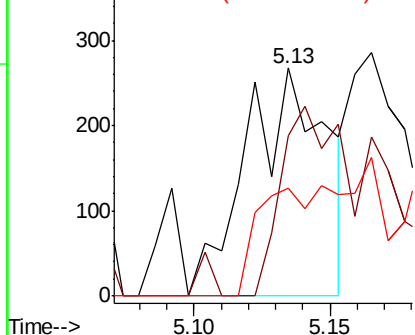
#29

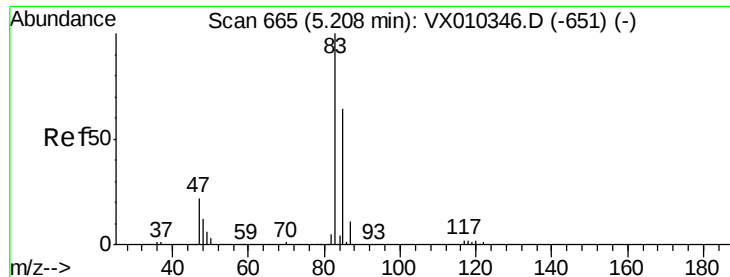
Tetrahydrofuran
 Concen: 0.519 ug/l
 RT: 5.13 min Scan# 653
 Delta R.T. 0.01 min
 Lab File: VX010464.D
 Acq: 26 Jun 2019 15:46

Tgt Ion: 42 Resp: 545
 Ion Ratio Lower Upper
 42 100
 72 63.9 40.6 60.8#
 71 29.9 37.8 56.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0
 Ion 71.00 (70.70 to 71.70): VX0

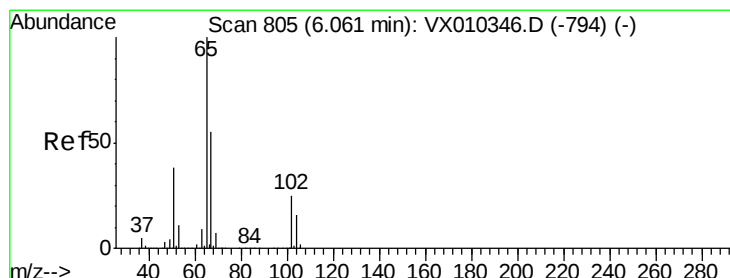
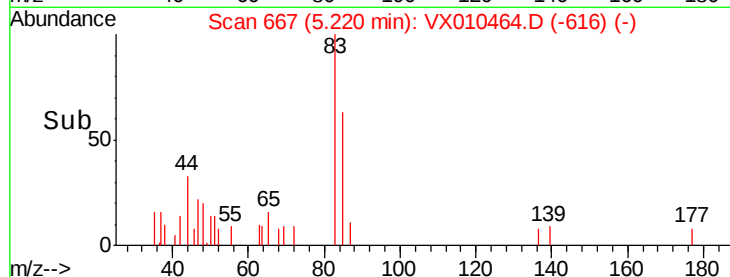
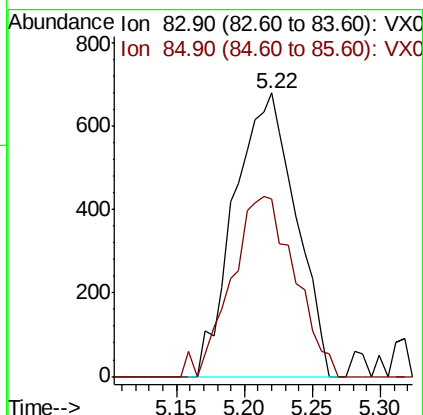
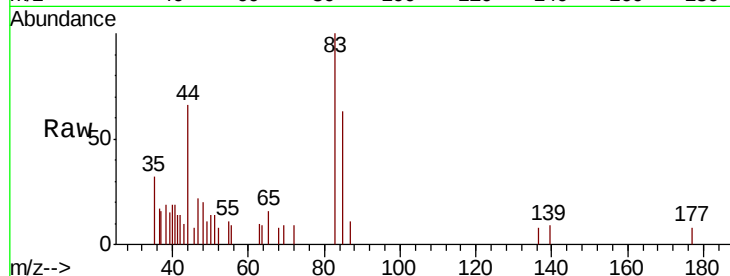




#30
Chloroform
Concen: 0.544 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX010464.D
Acq: 26 Jun 2019 15:46

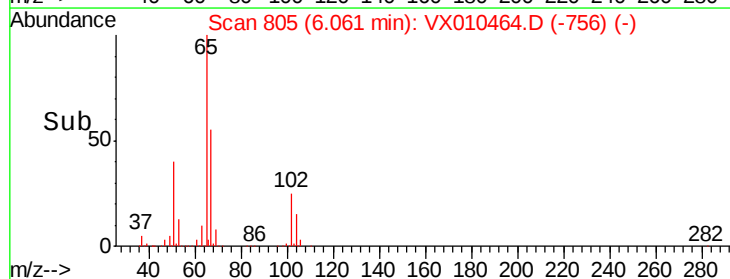
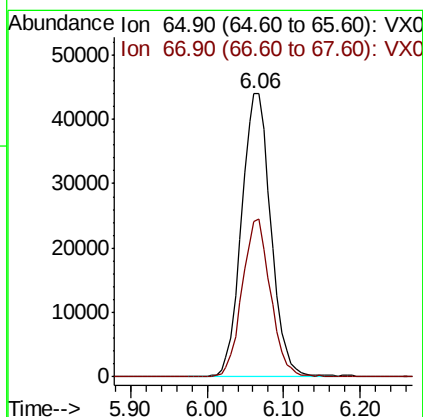
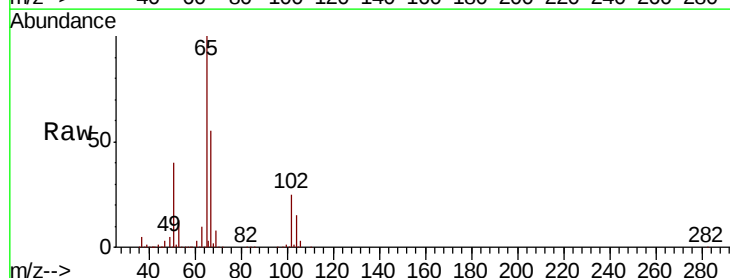
Instrument :
MSVOA_X
ClientSampleId :

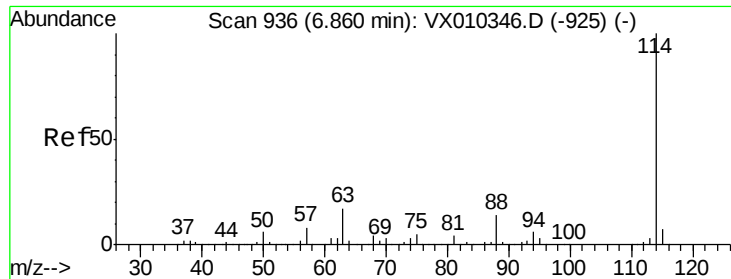
Tot Ion: 83 Resp: 2139
Ion Ratio Lower Upper
83 100
85 62.6 50.9 76.3



#33
1,2-Dichloroethane-d4
Concen: 51.000 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX010464.D
Acq: 26 Jun 2019 15:46

Tgt Ion: 65 Resp: 117566
Ion Ratio Lower Upper
65 100
67 53.9 0.0 110.2

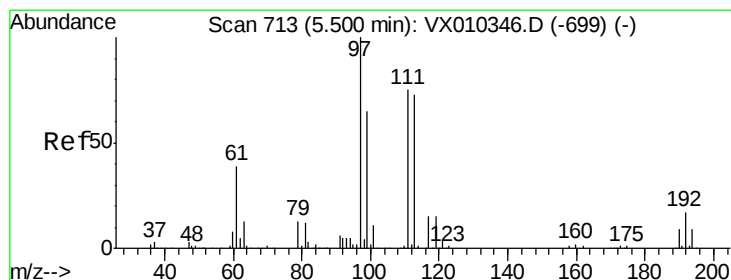
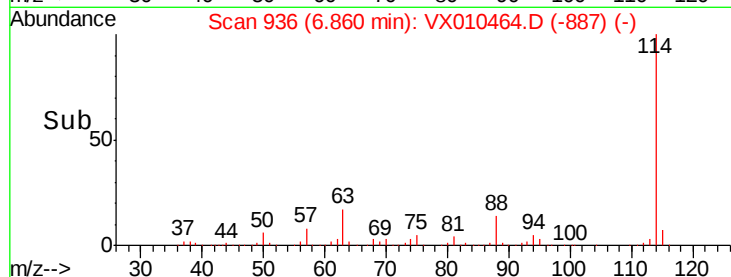
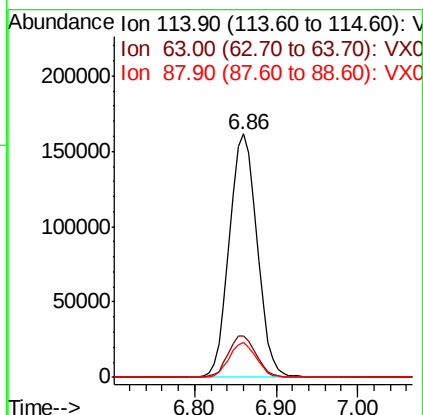
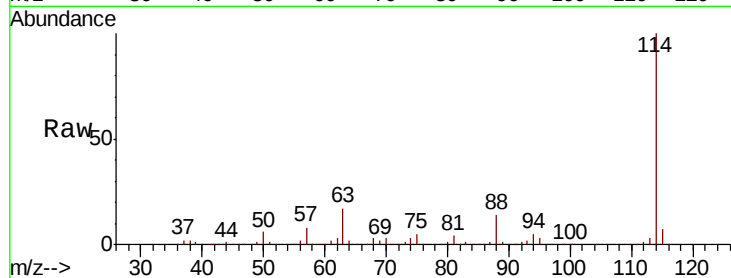




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX010464.D
Acq: 26 Jun 2019 15:46

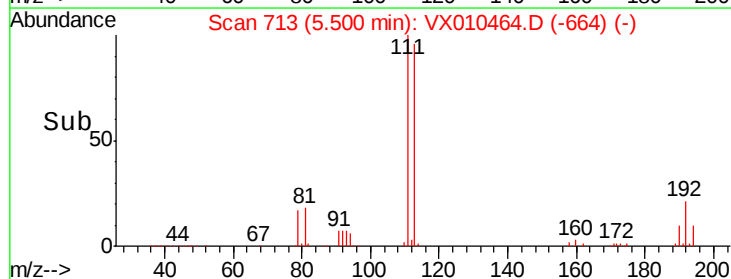
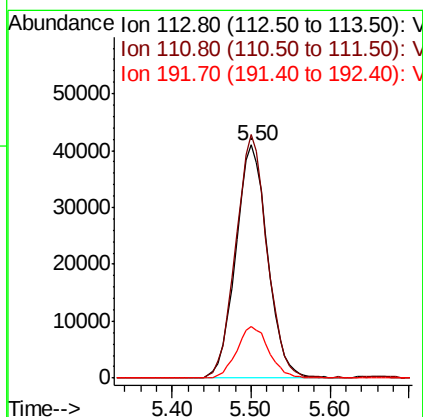
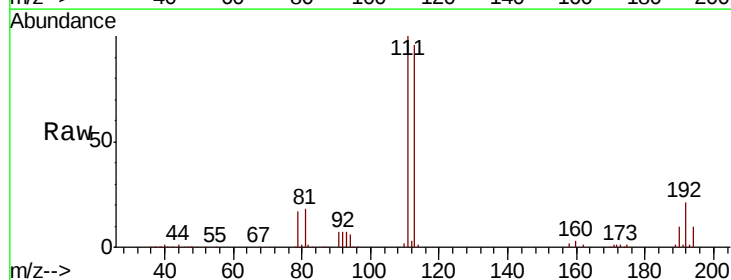
Instrument :
MSVOA_X
ClientSampleId :

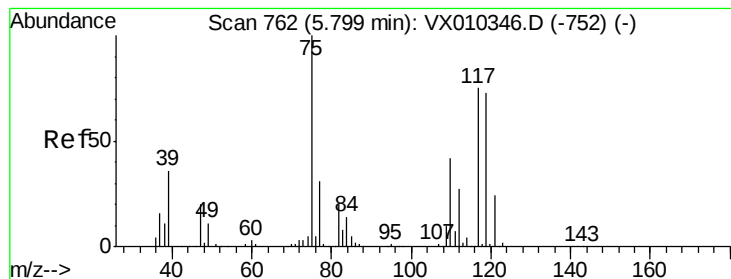
Tot Ion:114 Resp: 379813
Ion Ratio Lower Upper
114 100
63 17.1 0.0 33.8
88 14.4 0.0 27.6



#35
Dibromofluoromethane
Concen: 49.456 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX010464.D
Acq: 26 Jun 2019 15:46

Tgt Ion:113 Resp: 114927
Ion Ratio Lower Upper
113 100
111 102.6 81.2 121.8
192 22.4 18.6 27.8





#36

1,1-Dichloropropene

Concen: 4.959 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010464.D

Acq: 26 Jun 2019 15:46

Instrument :

MSVOA_X

ClientSampleId :

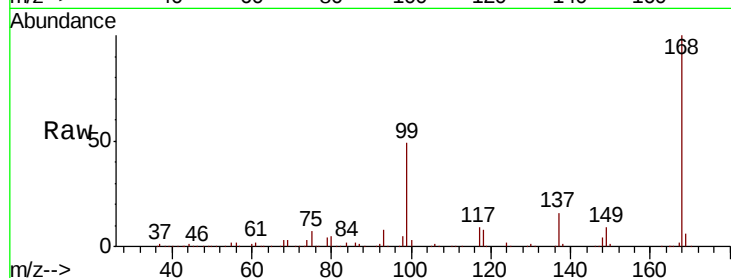
Tot Ion: 75 Resp: 14967

Ion Ratio Lower Upper

75 100

110 10.1 20.8 62.2#

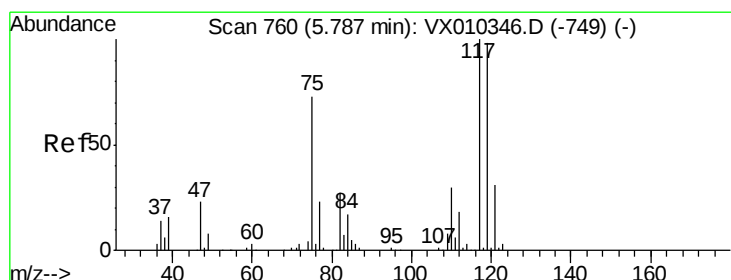
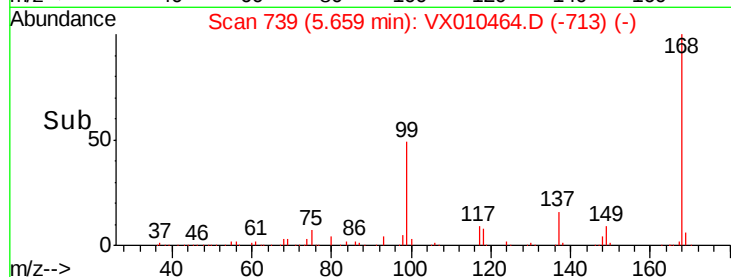
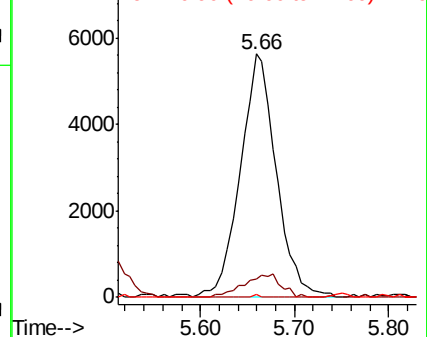
77 0.1 25.4 38.0#



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: 6.729 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010464.D

Acq: 26 Jun 2019 15:46

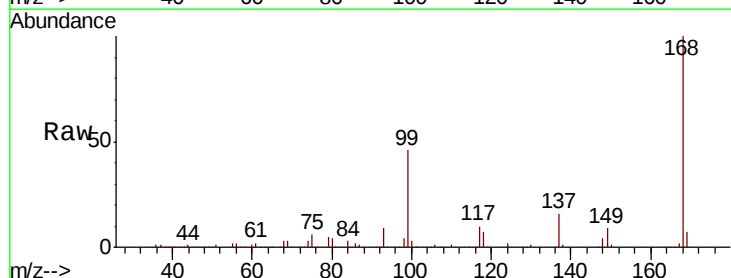
Tgt Ion: 117 Resp: 21993

Ion Ratio Lower Upper

117 100

119 4.2 78.2 117.4#

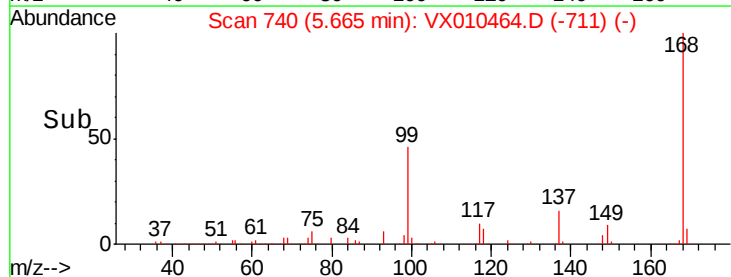
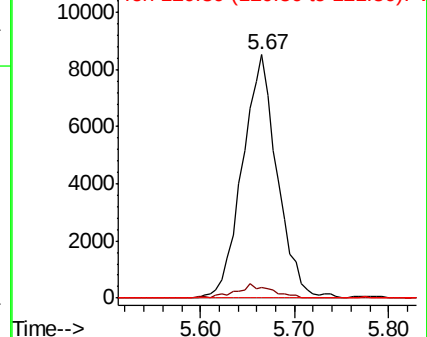
121 0.0 24.7 37.1#

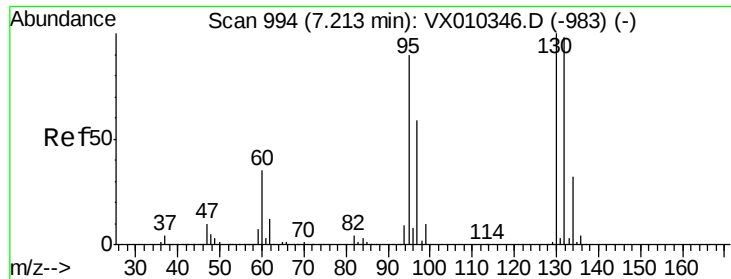


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.278 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.01 min

Lab File: VX010464.D

Acq: 26 Jun 2019 15:46

Instrument :

MSVOA_X

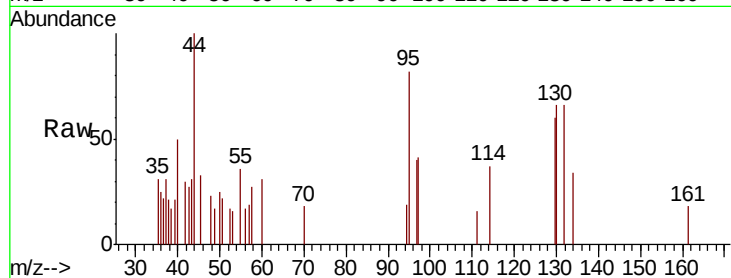
ClientSampled :

Tot Ion:130 Resp: 781

Ion Ratio Lower Upper

130 100

95 65.2 0.0 180.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

400

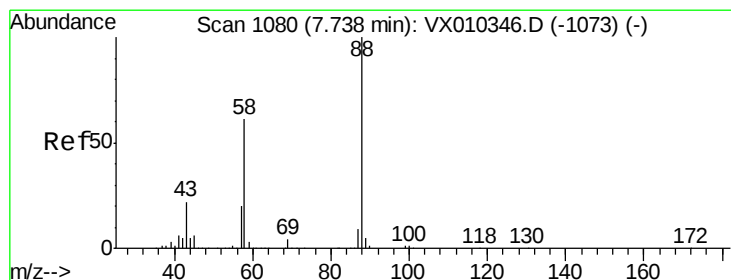
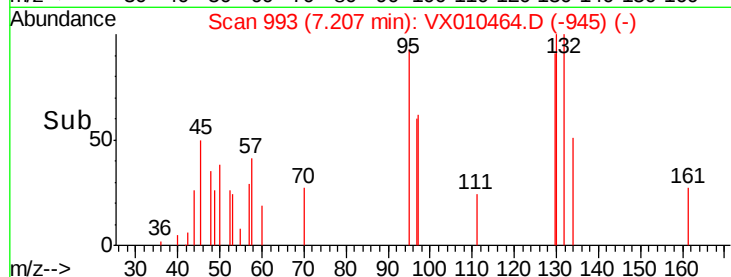
300

200

100

0

Time-->



#49

1,4-Dioxane

Concen: 0.291 ug/l

RT: 7.73 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VX010464.D

Acq: 26 Jun 2019 15:46

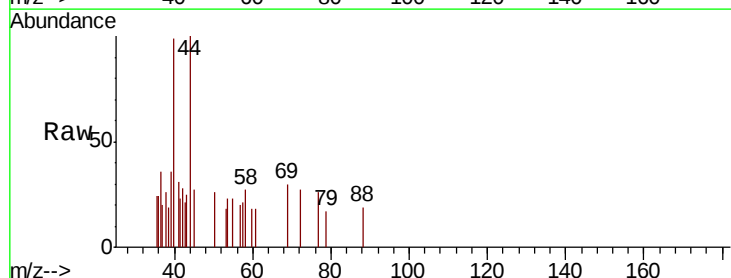
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 400.0 20.2 30.2#

58 630.0 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

250

200

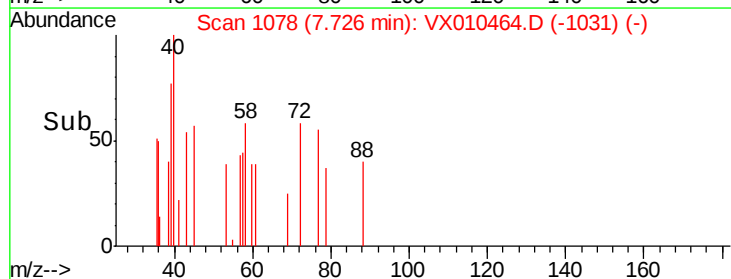
150

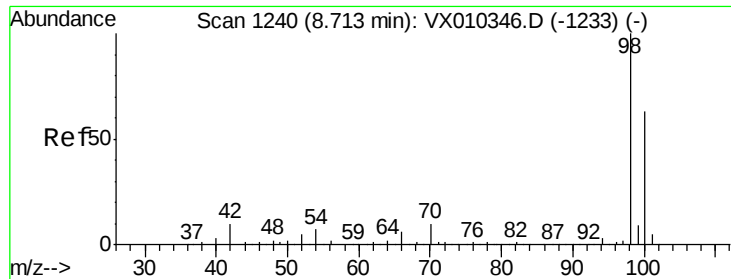
100

50

0

Time-->

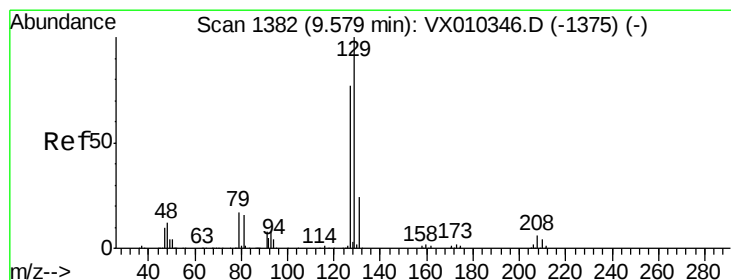
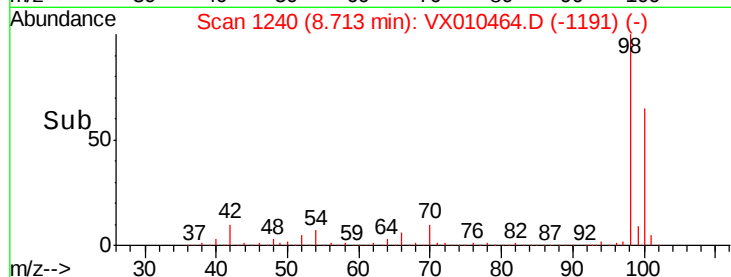
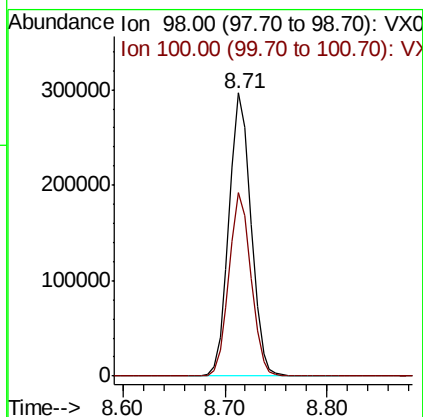
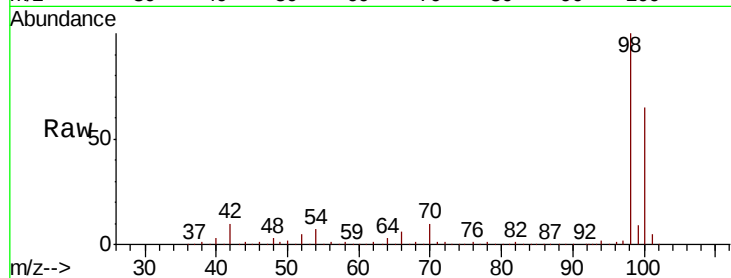




#50
Toluene-d8
Concen: 49.790 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010464.D
Acq: 26 Jun 2019 15:46

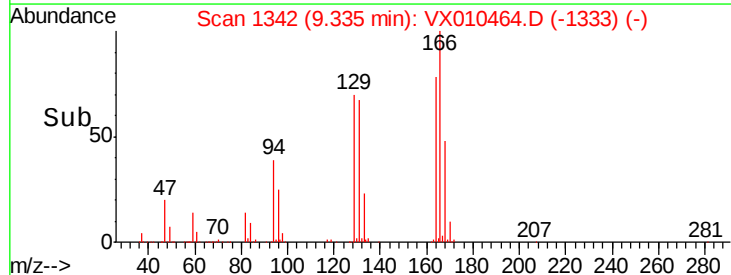
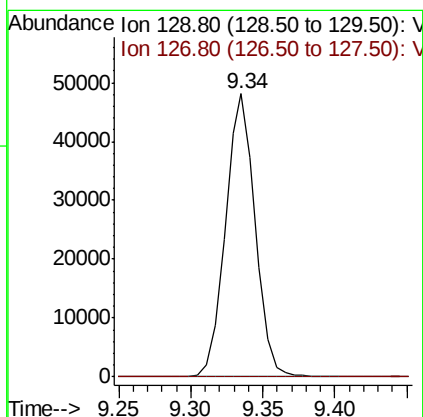
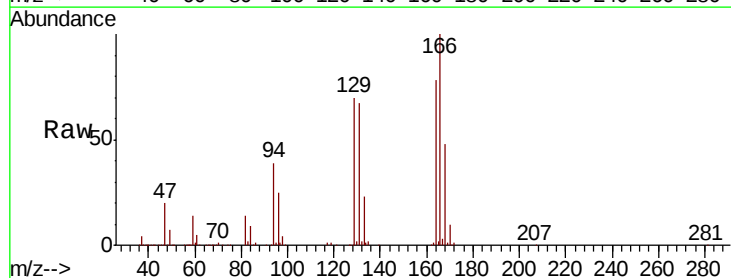
Instrument :
MSVOA_X
ClientSampleId :

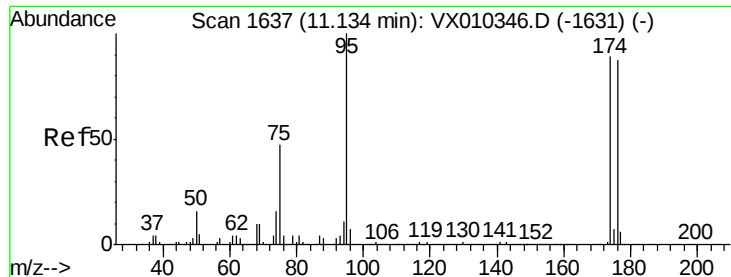
Tot Ion: 98 Resp: 442658
Ion Ratio Lower Upper
98 100
100 64.6 51.6 77.4



#60
Dibromochloromethane
Concen: 24.220 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX010464.D
Acq: 26 Jun 2019 15:46

Tgt Ion:129 Resp: 69257
Ion Ratio Lower Upper
129 100
127 0.1 38.4 115.1#





#62

4-Bromofluorobenzene

Concen: 43.809 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010464.D

Acq: 26 Jun 2019 15:46

Instrument :

MSVOA_X

ClientSampleId :

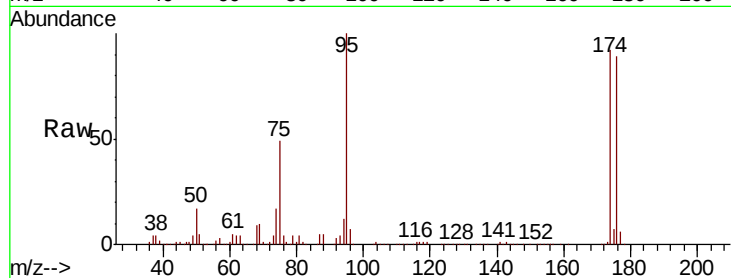
Tot Ion: 95 Resp: 140615

Ion Ratio Lower Upper

95 100

174 95.9 0.0 187.6

176 93.9 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX010346.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX010346.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX010346.D (-1631) (-)

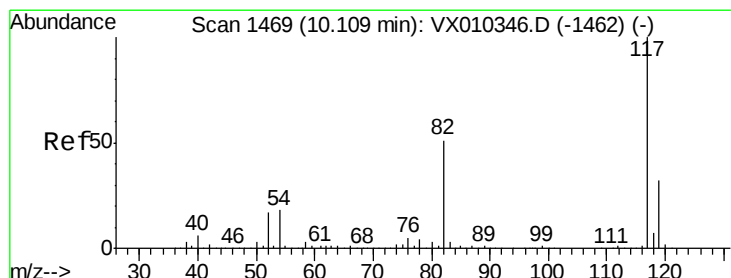
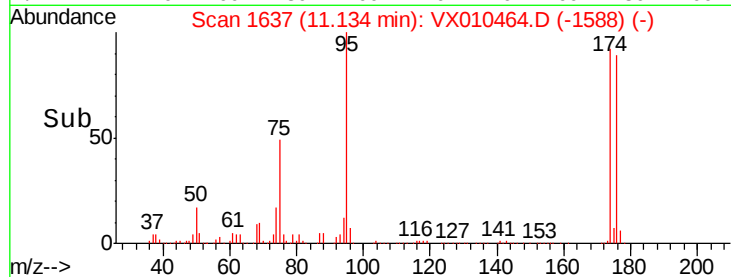
11.13

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010464.D

Acq: 26 Jun 2019 15:46

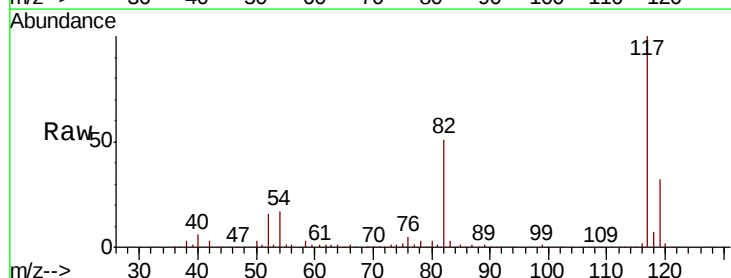
Tgt Ion: 117 Resp: 338422

Ion Ratio Lower Upper

117 100

82 50.5 41.2 61.8

119 32.4 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VX010346.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010346.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010346.D (-1462) (-)

10.11

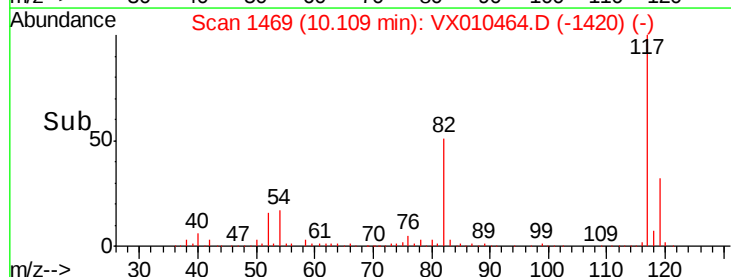
300000

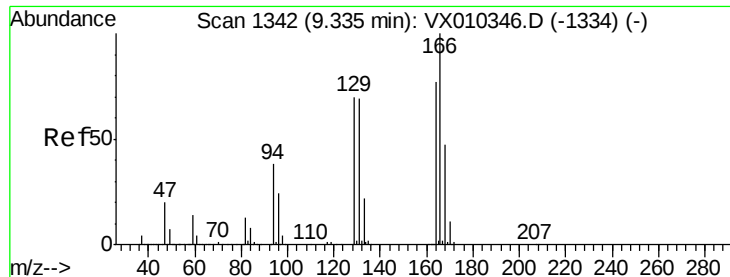
200000

100000

0

Time-->





#64

Tetrachloroethene

Concen: 27.898 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX010464.D

Acq: 26 Jun 2019 15:46

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:164 Resp: 76364

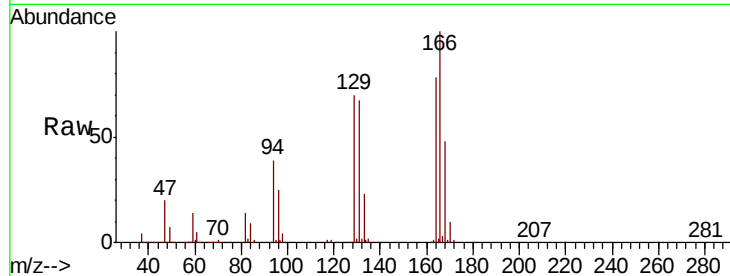
Ion Ratio Lower Upper

164 100

166 128.5 103.6 155.4

129 90.3 73.0 109.4

131 86.3 71.0 106.4

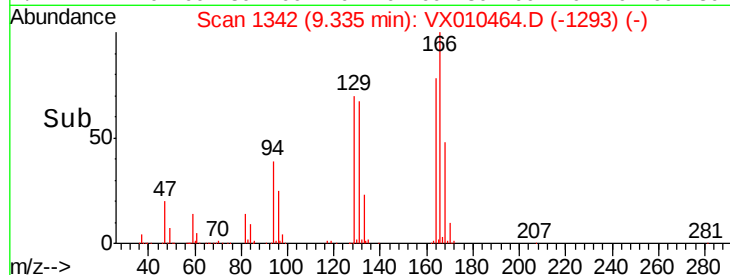


Abundance Ion 163.80 (163.50 to 164.50): V

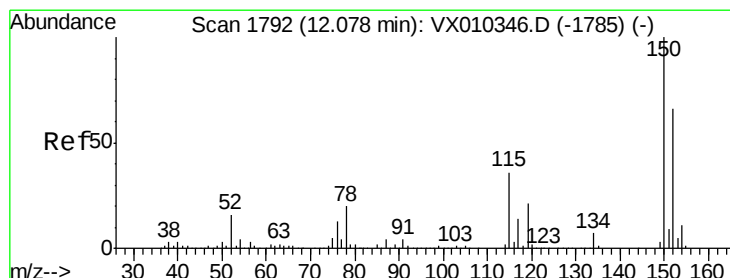
Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010464.D

Acq: 26 Jun 2019 15:46

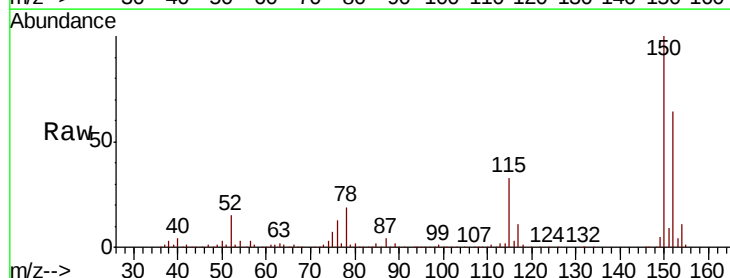
Tgt Ion:152 Resp: 147228

Ion Ratio Lower Upper

152 100

115 53.6 38.6 115.7

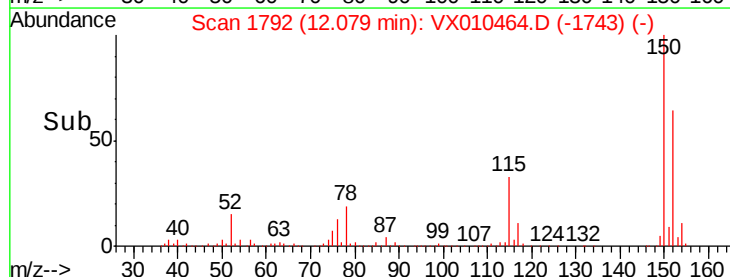
150 155.0 0.0 347.4



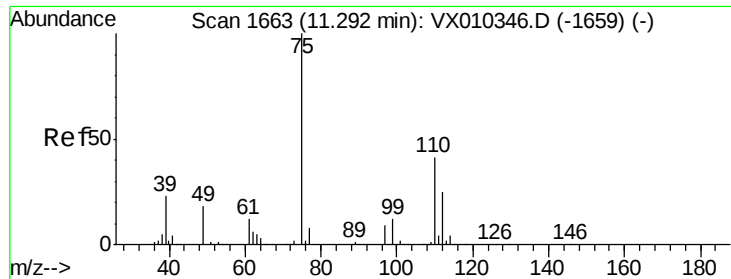
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



Time-->



#76

1,2,3-Trichloropropane

Concen: 25.113 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010464.D

Acq: 26 Jun 2019 15:46

Instrument :

MSVOA_X

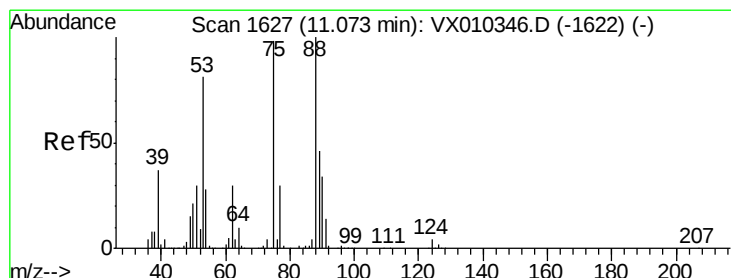
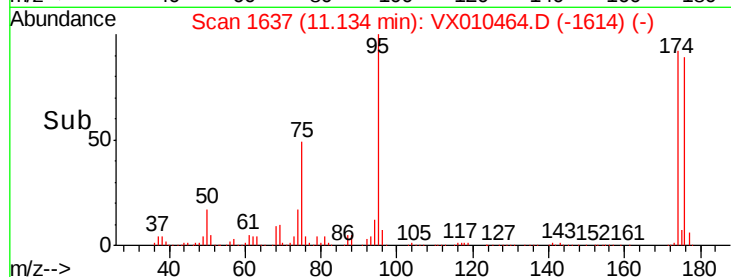
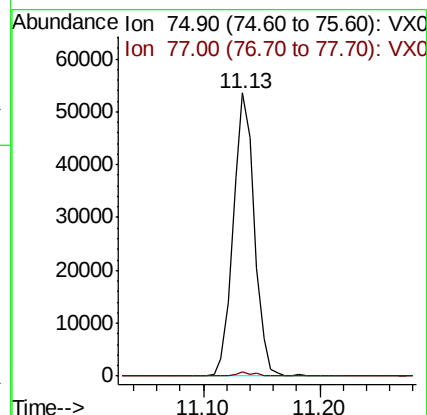
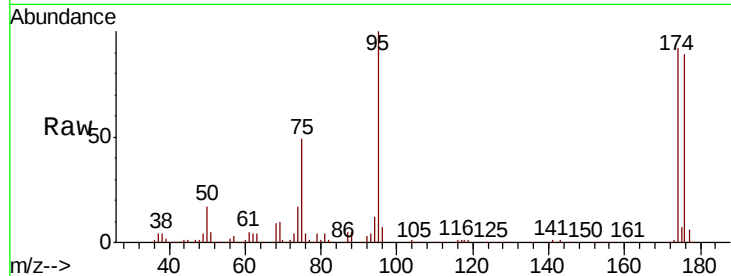
ClientSampleId :

Tot Ion: 75 Resp: 67376

Ion Ratio Lower Upper

75 100

77 1.5 22.6 67.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.587 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010464.D

Acq: 26 Jun 2019 15:46

Tgt Ion: 75 Resp: 67376

Ion Ratio Lower Upper

75 100

53 0.1 66.1 99.1#

89 0.0 37.8 56.6#

