

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071819\
 Data File : VX010960.D
 Acq On : 18 Jul 2019 15:46
 Operator : JC/SP
 Sample : K3884-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 19 01:33:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	210456	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	330684	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	304818	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	144042	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	110678	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
35) Dibromofluoromethane	5.50	113	102862	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
50) Toluene-d8	8.71	98	395574	50.25	ug/l	0.00
Spiked Amount			Recovery	=	100.50%	
62) 4-Bromofluorobenzene	11.13	95	137689	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	

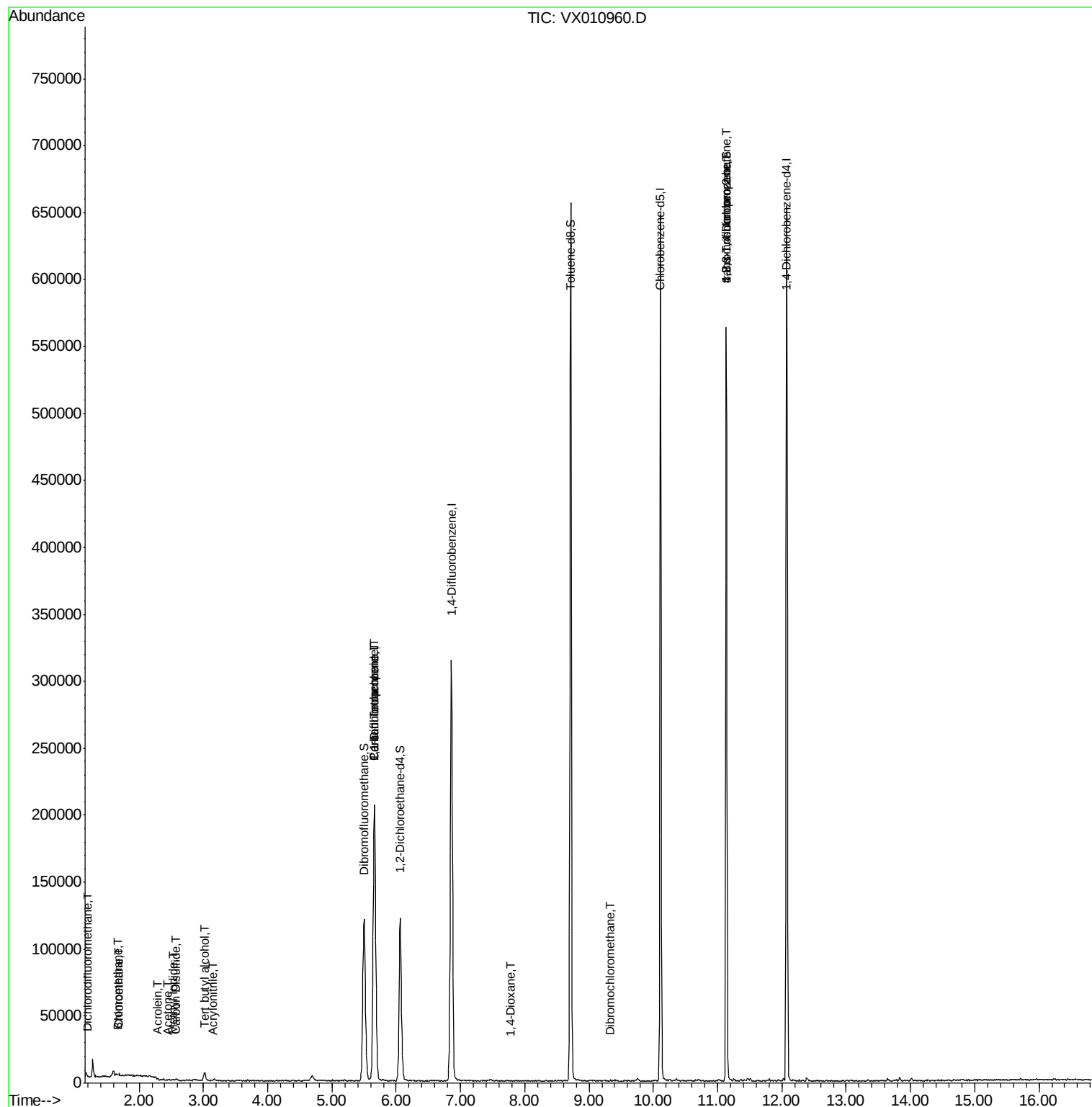
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	170	0.621	ug/l	81
5) Bromomethane	1.67	94	571	0.513	ug/l #	69
6) Chloroethane	1.69	64	364	0.290	ug/l #	54
10) Methyl Iodide	2.52	142	780	0.312	ug/l #	84
11) Tert butyl alcohol	3.02	59	3400	6.521	ug/l #	75
13) Acrolein	2.29	56	146	0.485	ug/l #	9
15) Acrylonitrile	3.14	53	441	0.419	ug/l #	70
16) Acetone	2.45	43	664	0.657	ug/l #	80
17) Carbon Disulfide	2.57	76	1062	0.221	ug/l #	89
36) 1,1-Dichloropropene	5.66	75	14422	5.309	ug/l #	49
38) Carbon Tetrachloride	5.67	117	19380	6.847	ug/l #	16
49) 1,4-Dioxane	7.77	88	50	0.802	ug/l #	18
60) Dibromochloromethane	9.34	129	119	2.571	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	67893	26.120	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	67893	64.888	ug/l #	11

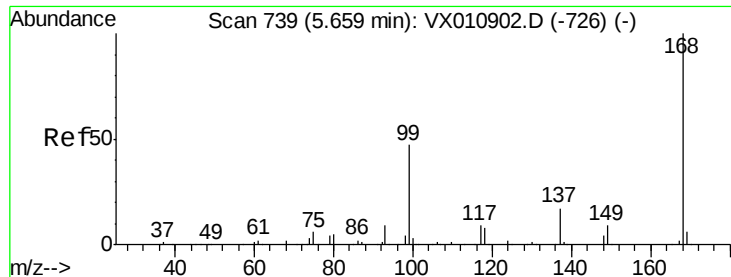
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

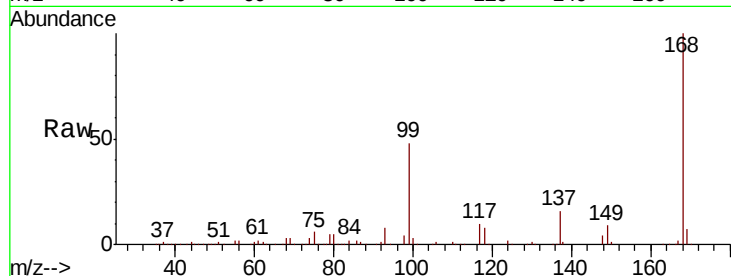
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 210456

Ion Ratio Lower Upper

168 100

99 47.9 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

80000

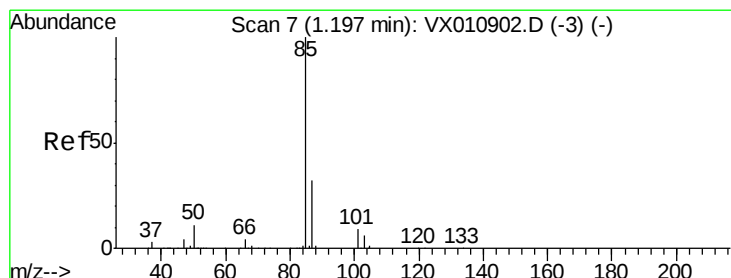
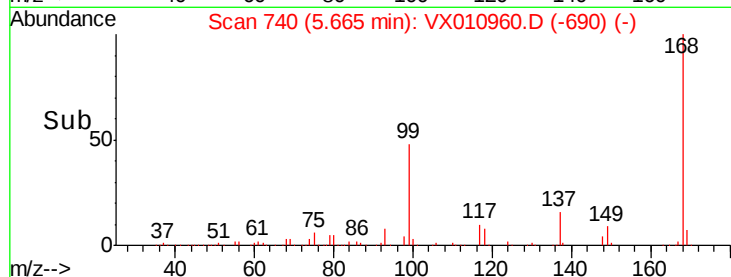
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.621 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX010960.D

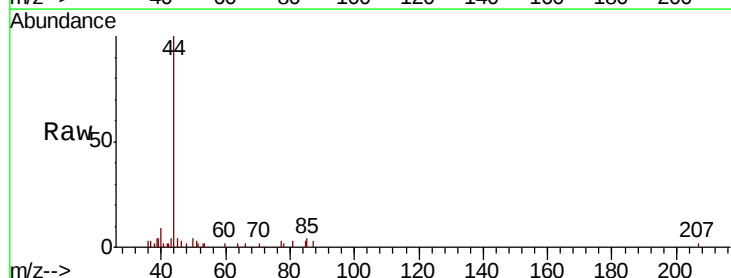
Acq: 18 Jul 2019 15:46

Tgt Ion: 85 Resp: 170

Ion Ratio Lower Upper

85 100

87 42.1 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

200

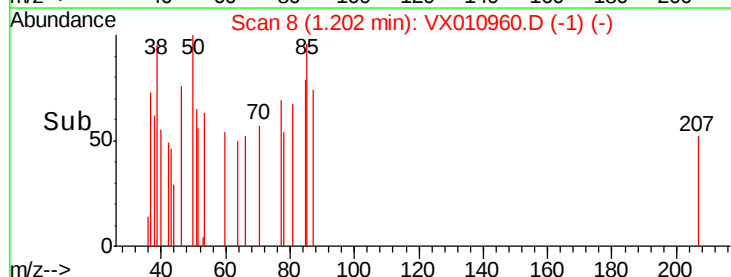
150

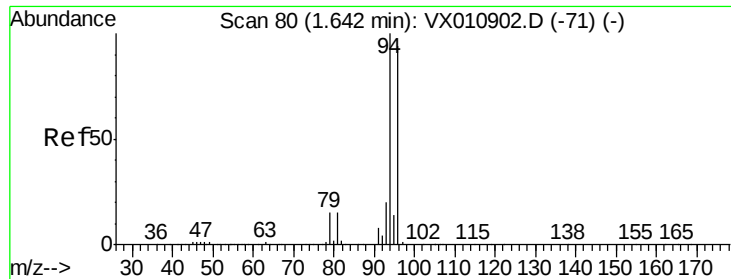
100

50

0

Time--> 1.18 1.20 1.22 1.24





#5

Bromomethane

Concen: 0.513 ug/l

RT: 1.67 min Scan# 84

Delta R.T. 0.02 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

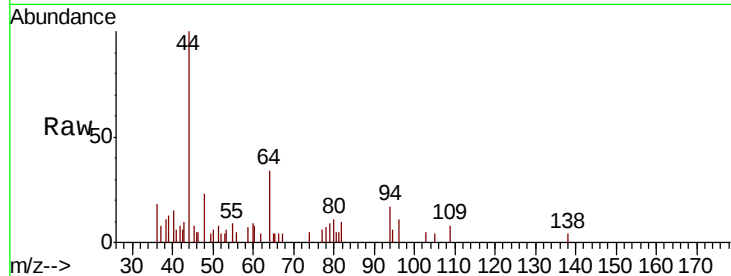
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 571

Ion Ratio Lower Upper

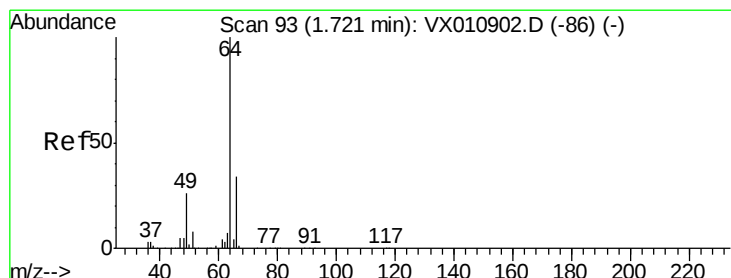
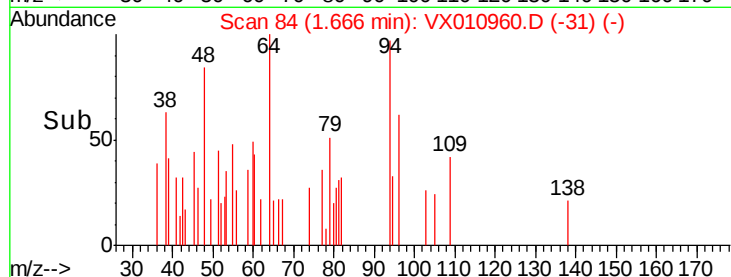
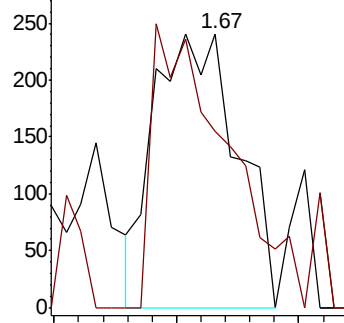
94 100

96 64.3 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.290 ug/l

RT: 1.69 min Scan# 88

Delta R.T. -0.03 min

Lab File: VX010960.D

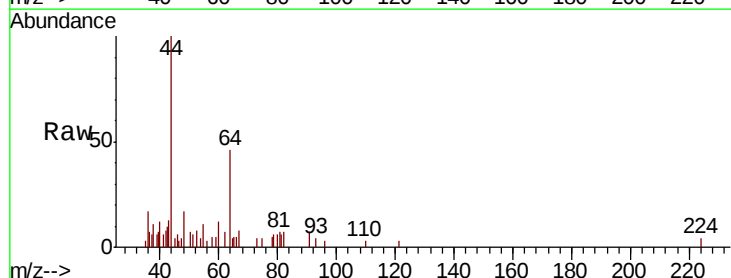
Acq: 18 Jul 2019 15:46

Tgt Ion: 64 Resp: 364

Ion Ratio Lower Upper

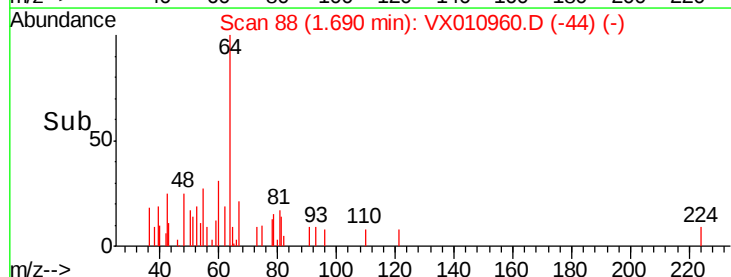
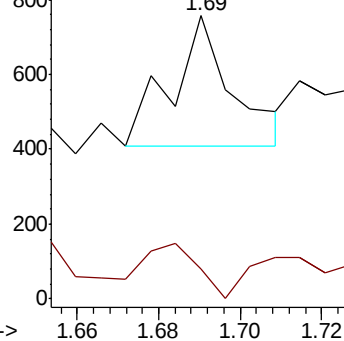
64 100

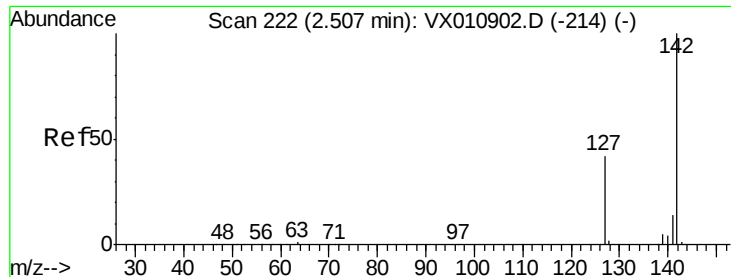
66 7.7 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

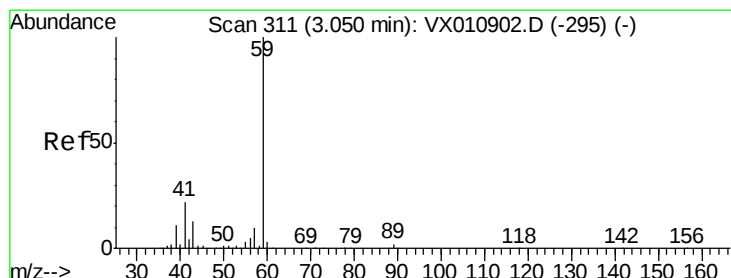
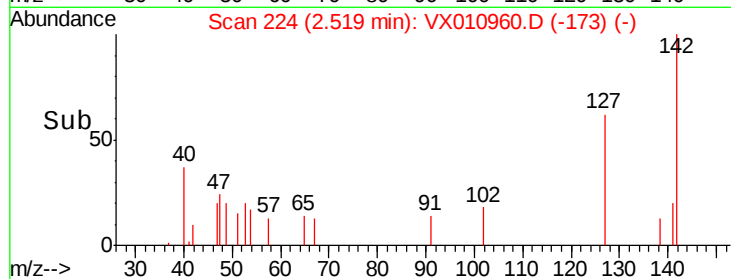
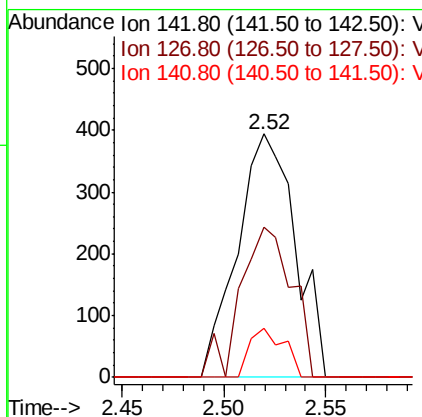
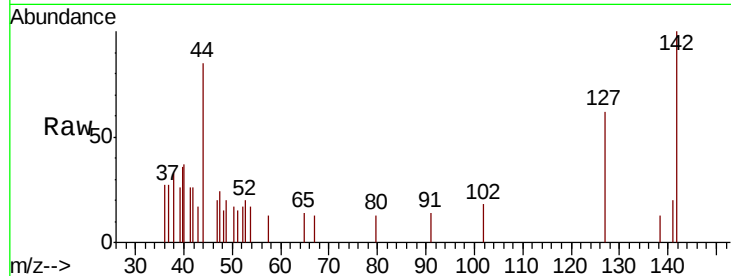




#10
Methvl Iodide
Concen: 0.312 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX010960.D
Acq: 18 Jul 2019 15:46

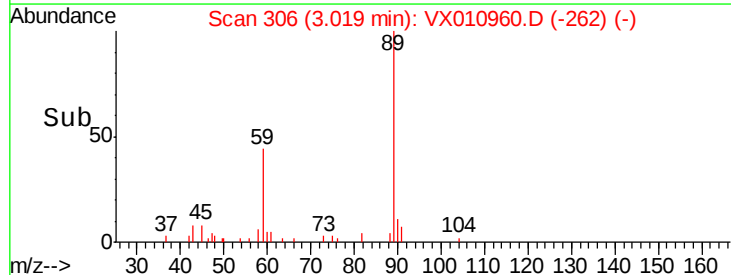
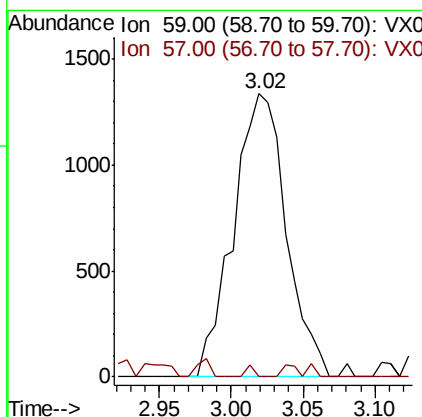
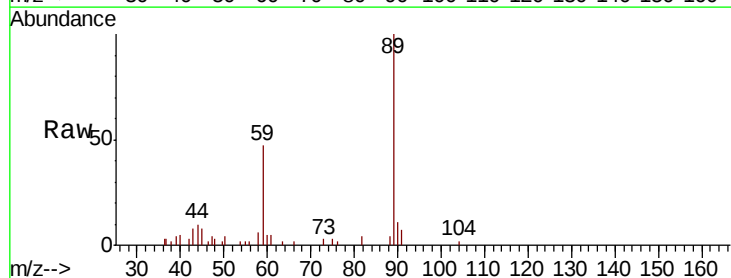
Instrument :
MSVOA_X
ClientSampled :

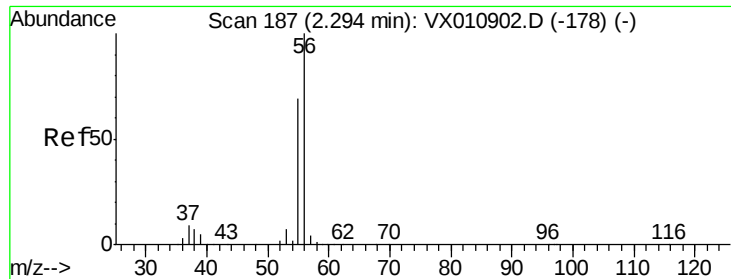
Tot Ion:142 Resp: 780
Ion Ratio Lower Upper
142 100
127 54.9 34.2 51.4#
141 11.9 11.7 17.5



#11
Tert butyl alcohol
Concen: 6.521 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX010960.D
Acq: 18 Jul 2019 15:46

Tgt Ion: 59 Resp: 3400
Ion Ratio Lower Upper
59 100
57 0.6 7.9 11.9#





#13

Acrolein

Concen: 0.485 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

Instrument :

MSVOA_X

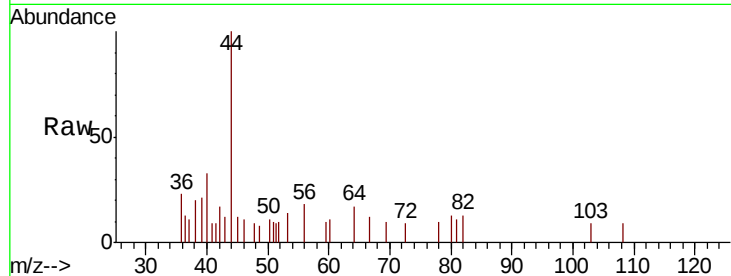
ClientSampled :

Tot Ion: 56 Resp: 146

Ion Ratio Lower Upper

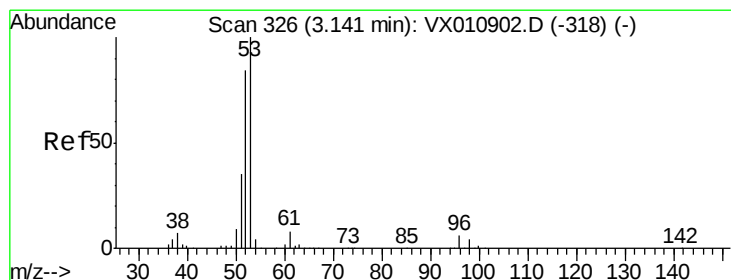
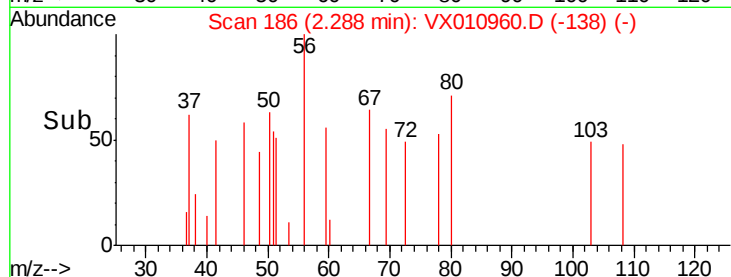
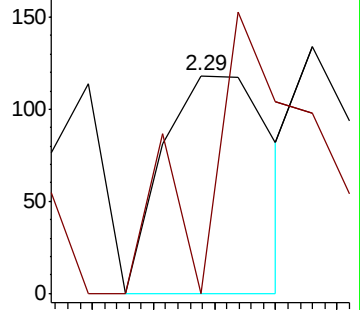
56 100

55 144.5 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.419 ug/l

RT: 3.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

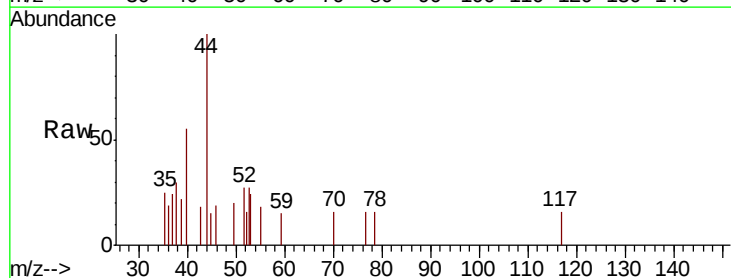
Tgt Ion: 53 Resp: 441

Ion Ratio Lower Upper

53 100

52 56.7 66.5 99.7#

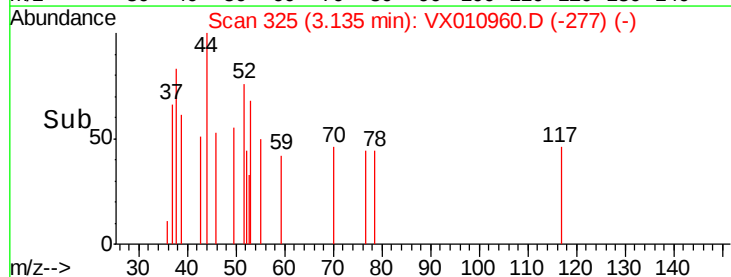
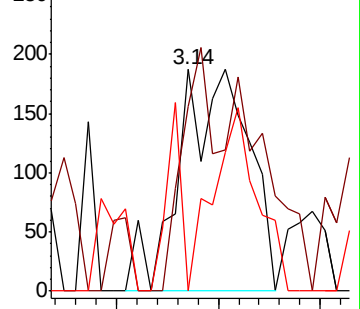
51 17.7 28.2 42.4#

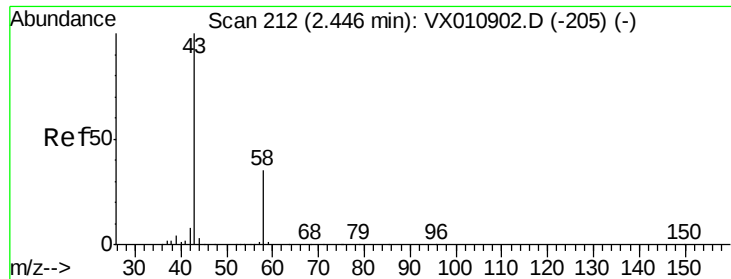


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 0.657 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

Instrument :

MSVOA_X

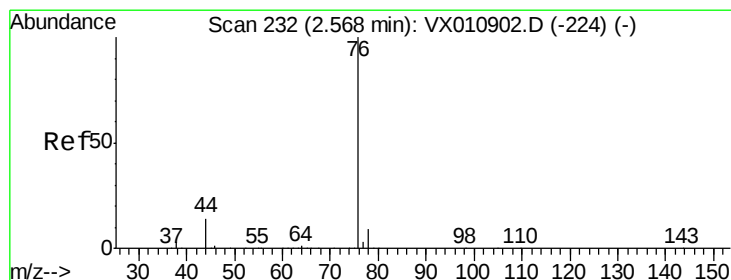
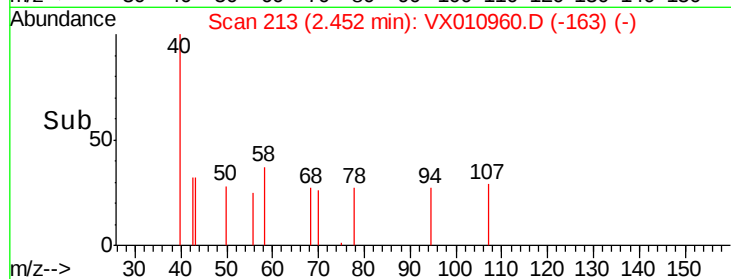
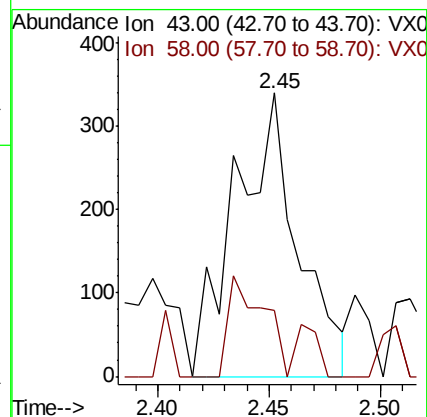
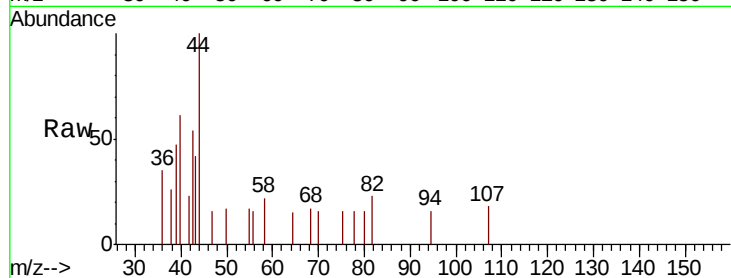
ClientSampleId :

Tot Ion: 43 Resp: 664

Ion Ratio Lower Upper

43 100

58 23.2 27.7 41.5#



#17

Carbon Disulfide

Concen: 0.221 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010960.D

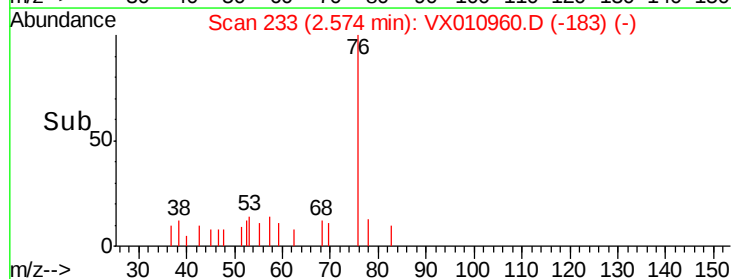
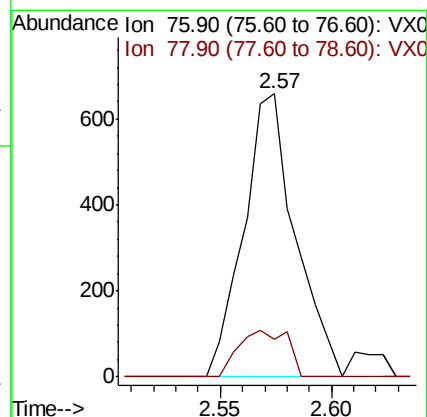
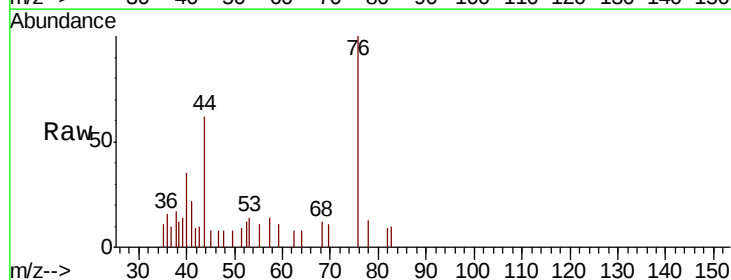
Acq: 18 Jul 2019 15:46

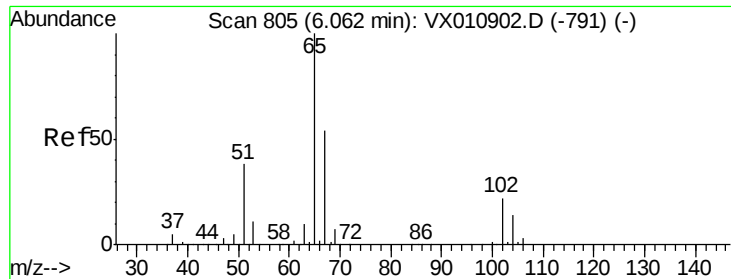
Tgt Ion: 76 Resp: 1062

Ion Ratio Lower Upper

76 100

78 13.2 7.4 11.0#





#33

1,2-Dichloroethane-d4

Concen: 49.433 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

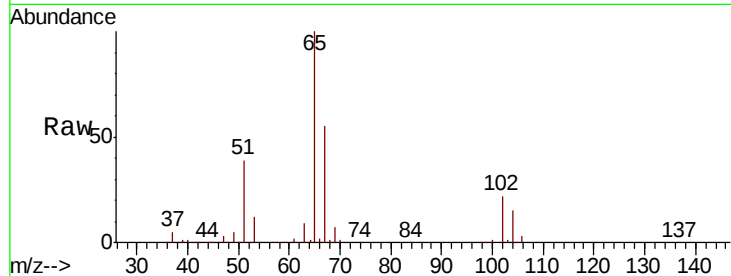
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 65 Resp: 110678

Ion Ratio Lower Upper

65 100

67 53.9 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

40000

30000

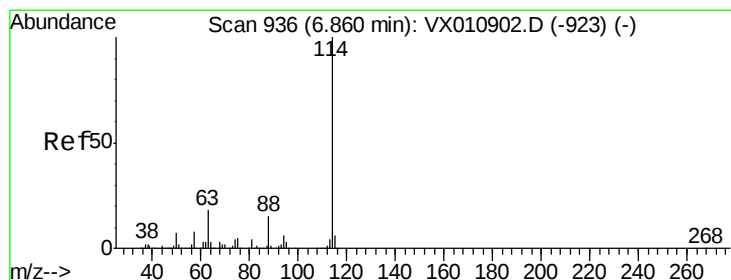
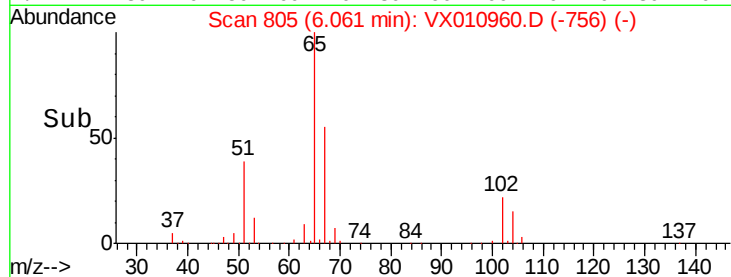
20000

10000

0

5.90 6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

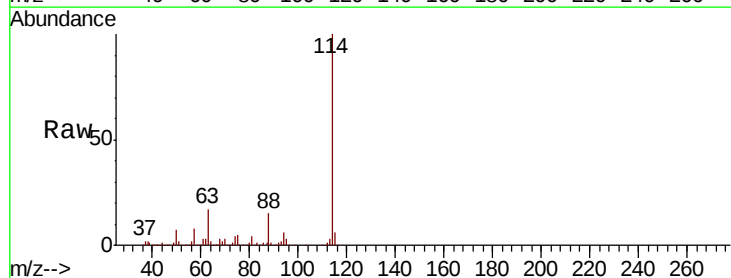
Tgt Ion: 114 Resp: 330684

Ion Ratio Lower Upper

114 100

63 17.1 0.0 35.6

88 14.6 0.0 29.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.86

200000

150000

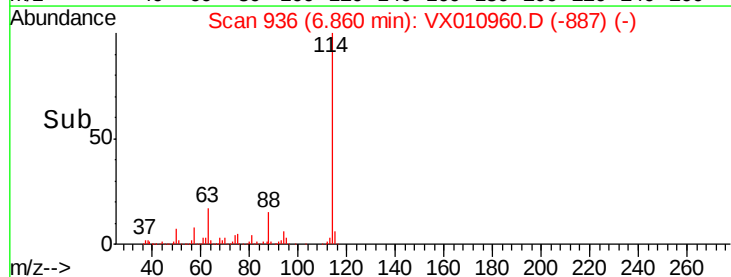
100000

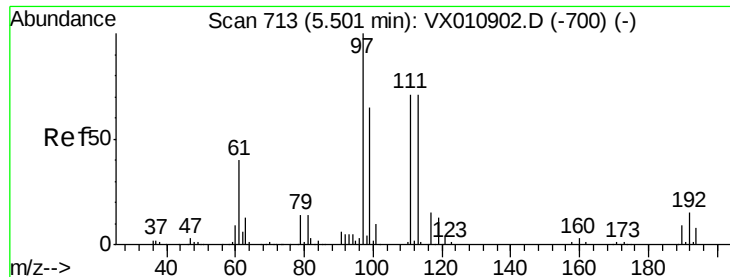
50000

0

6.70 6.80 6.90 7.00

Time-->





#35

Dibromofluoromethane

Concen: 49.007 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

Instrument :

MSVOA_X

ClientSampleId :

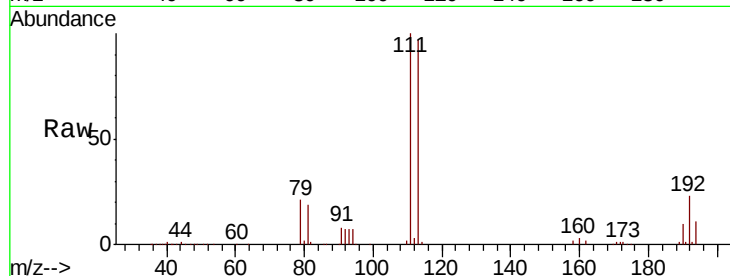
Tot Ion:113 Resp: 102862

Ion Ratio Lower Upper

113 100

111 101.0 82.3 123.5

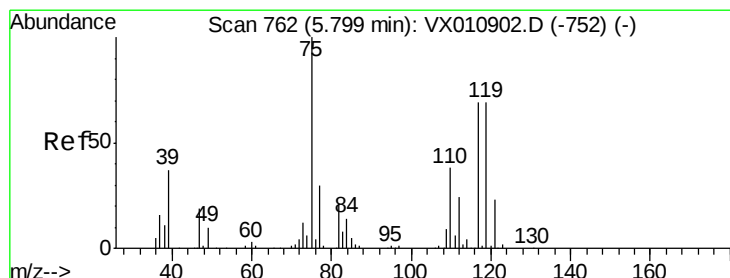
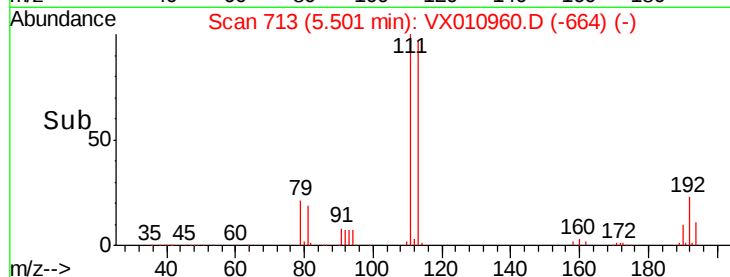
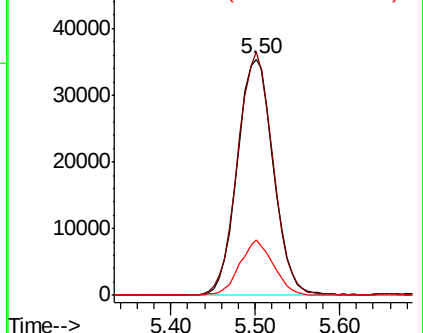
192 21.9 17.4 26.2



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: 5.309 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

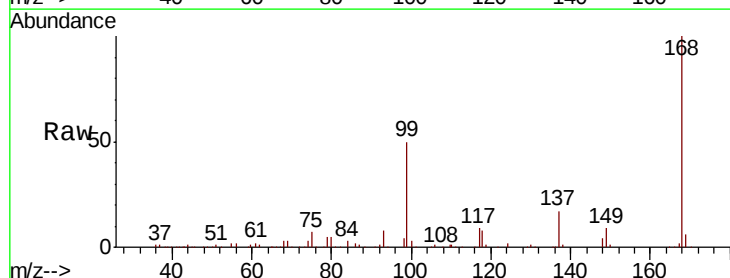
Tgt Ion: 75 Resp: 14422

Ion Ratio Lower Upper

75 100

110 10.9 19.9 59.7#

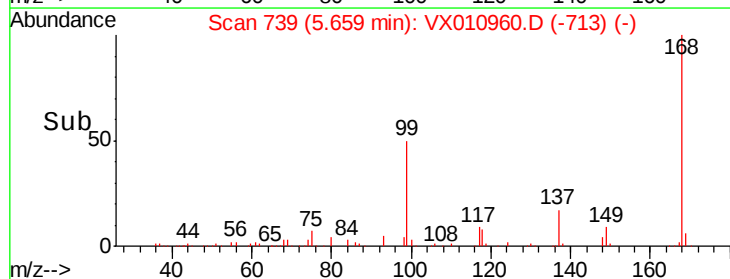
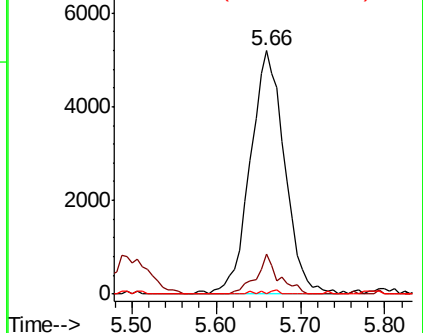
77 0.6 25.0 37.4#

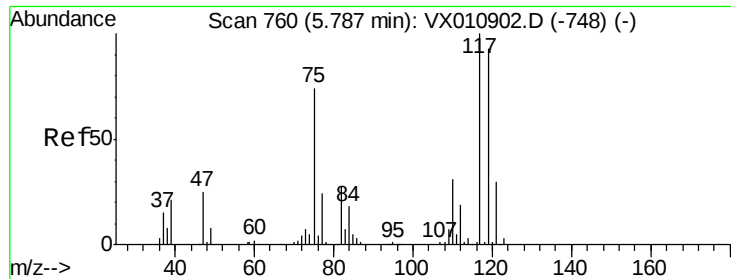


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.847 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

Instrument :

MSVOA_X

ClientSampled :

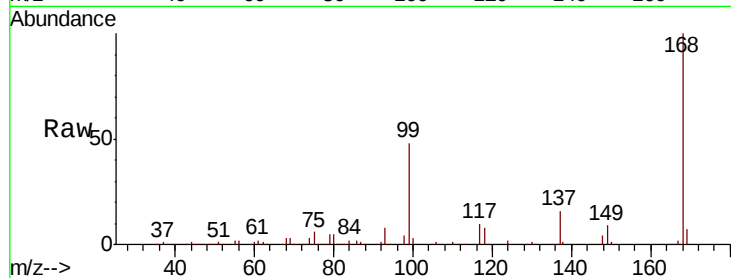
Tot Ion:117 Resp: 19380

Ion Ratio Lower Upper

117 100

119 3.7 74.2 111.2#

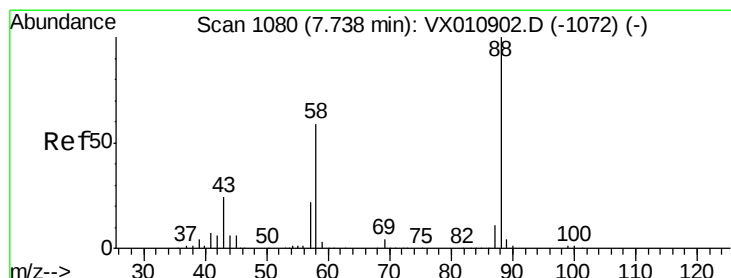
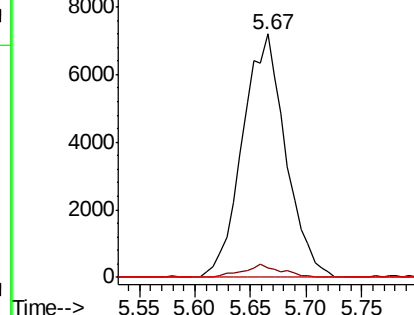
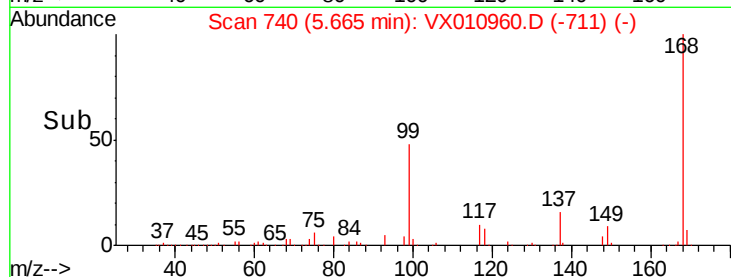
121 0.0 24.2 36.2#



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: 0.802 ug/l

RT: 7.77 min Scan# 1086

Delta R.T. 0.04 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

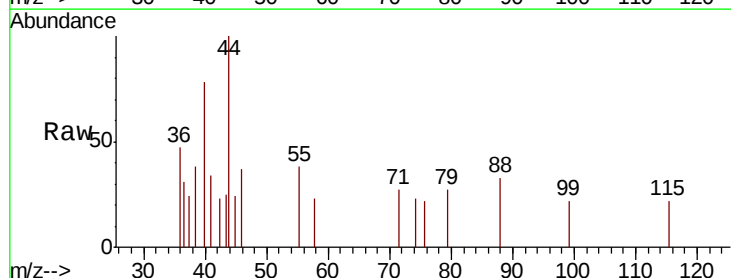
Tgt Ion: 88 Resp: 50

Ion Ratio Lower Upper

88 100

43 44.0 22.9 34.3#

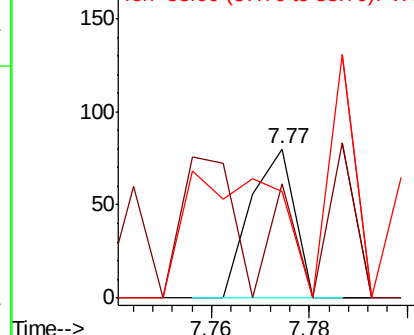
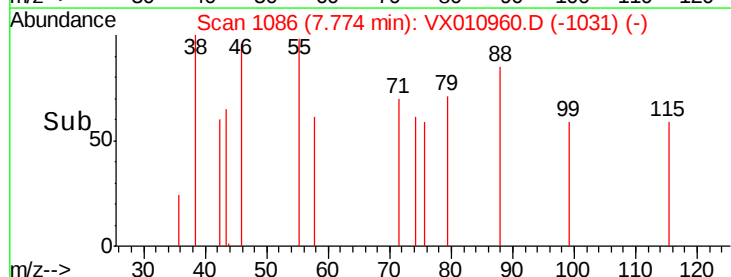
58 144.0 49.8 74.8#

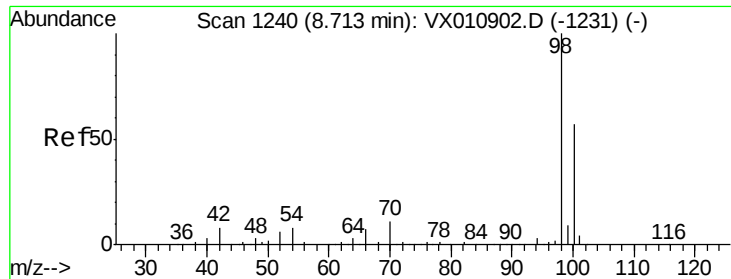


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.249 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

Instrument :

MSVOA_X

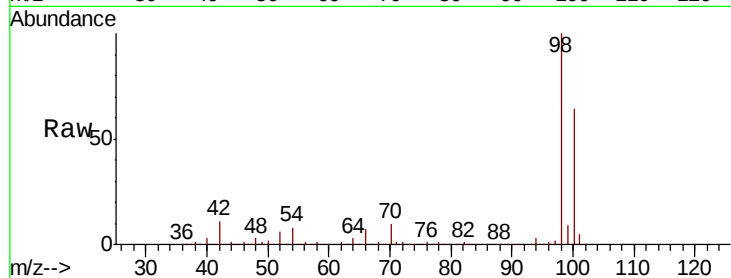
ClientSampled :

Tot Ion: 98 Resp: 395574

Ion Ratio Lower Upper

98 100

100 64.2 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX010902.D (-1231) (-)

Ion 100.00 (99.70 to 100.70): VX010960.D (-1191) (-)

8.71

250000

200000

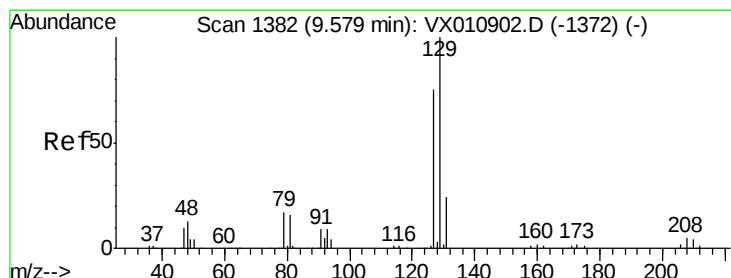
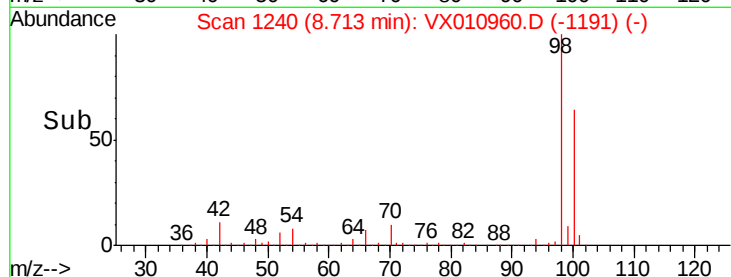
150000

100000

50000

0

Time-->



#60

Dibromochloromethane

Concen: 2.571 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010960.D

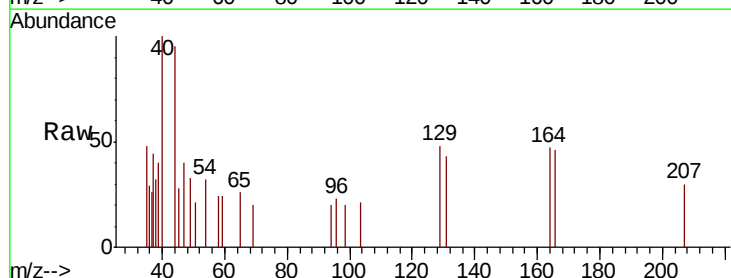
Acq: 18 Jul 2019 15:46

Tgt Ion: 129 Resp: 119

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VX010902.D (-1372) (-)

Ion 126.80 (126.50 to 127.50): VX010960.D (-1333) (-)

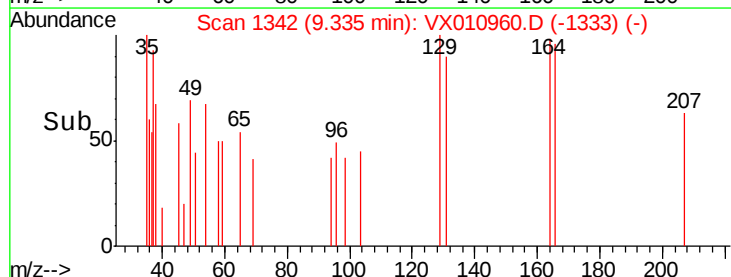
9.34

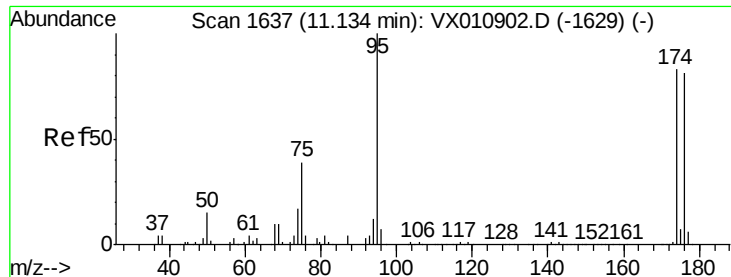
100

50

0

Time-->





#62

4-Bromofluorobenzene

Concen: 47.584 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

Instrument :

MSVOA_X

ClientSampled :

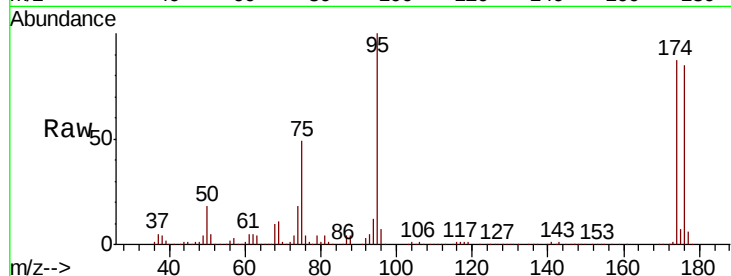
Tot Ion: 95 Resp: 137689

Ion Ratio Lower Upper

95 100

174 92.2 0.0 180.6

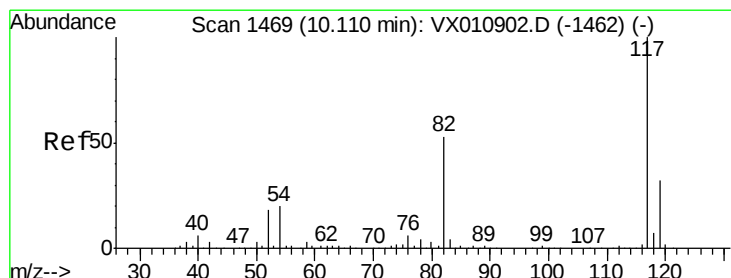
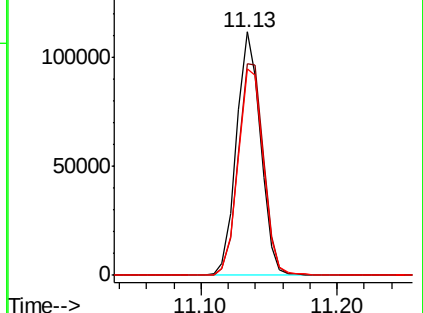
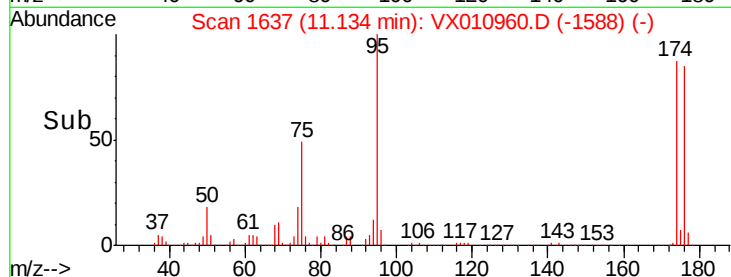
176 89.0 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX010960.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX010960.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX010960.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

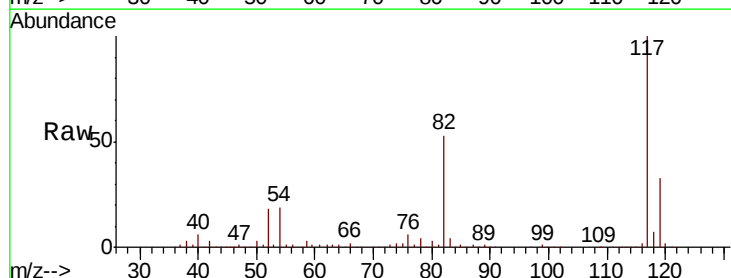
Tgt Ion: 117 Resp: 304818

Ion Ratio Lower Upper

117 100

82 53.0 42.6 63.8

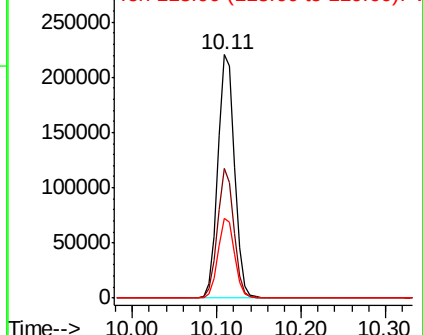
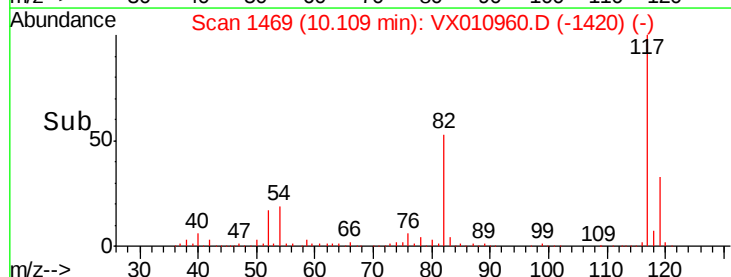
119 32.6 25.9 38.9

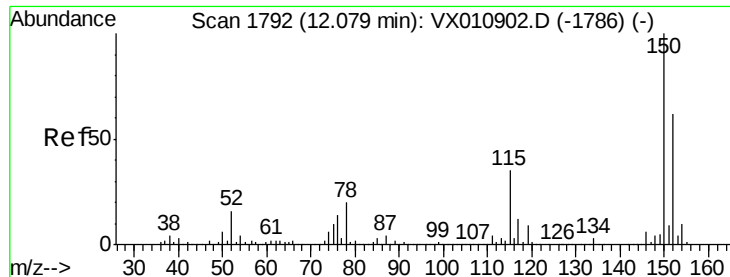


Abundance Ion 116.90 (116.60 to 117.60): VX010960.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX010960.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX010960.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

Instrument :

MSVOA_X

ClientSampled :

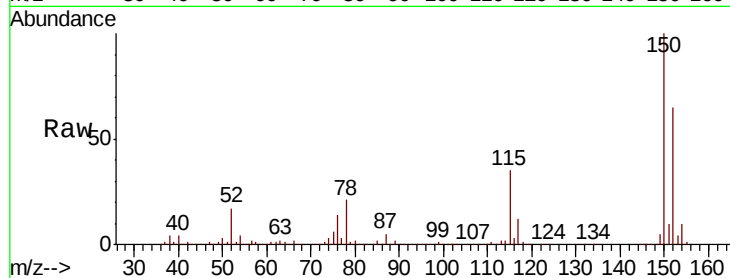
Tot Ion:152 Resp: 144042

Ion Ratio Lower Upper

152 100

115 55.8 39.7 119.1

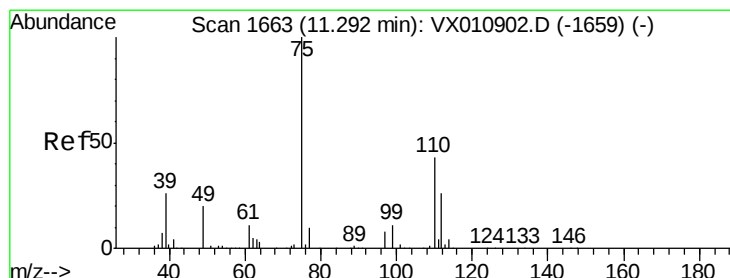
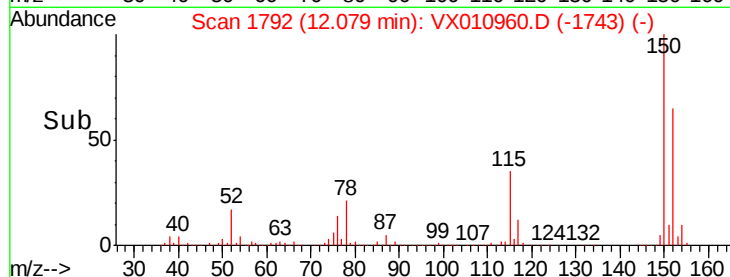
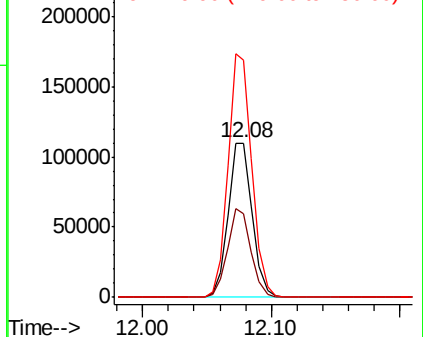
150 155.6 0.0 345.6



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: 26.120 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010960.D

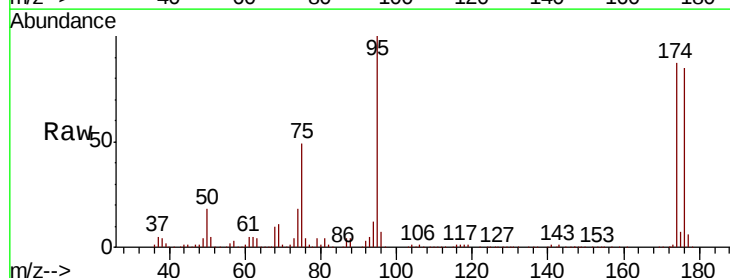
Acq: 18 Jul 2019 15:46

Tgt Ion: 75 Resp: 67893

Ion Ratio Lower Upper

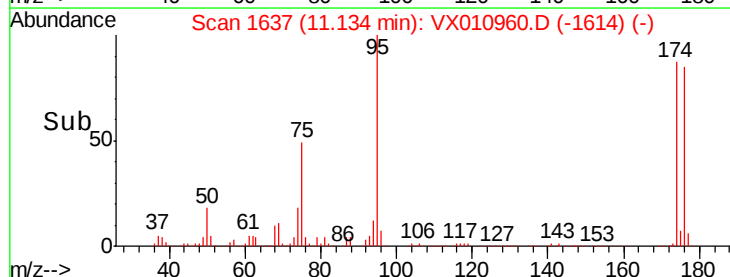
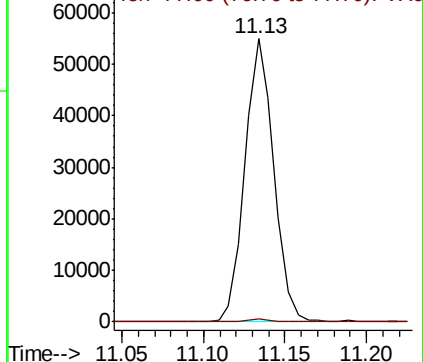
75 100

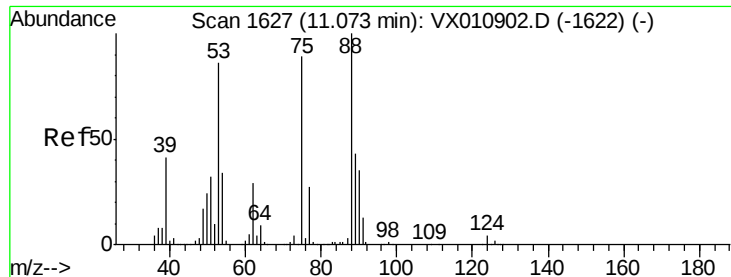
77 1.1 21.3 64.0#



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: 64.888 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010960.D

Acq: 18 Jul 2019 15:46

Instrument :

MSVOA_X

ClientSampleId :

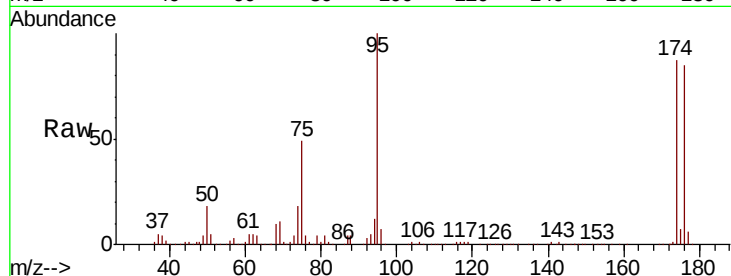
Tot Ion: 75 Resp: 67893

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 38.5 57.7#



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

