

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102418\
 Data File : VX005549.D
 Acq On : 24 Oct 2018 18:46
 Operator : JC/MD
 Sample : J5655-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S37-0003

Quant Time: Oct 25 04:55:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 13:13:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	202096	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	309738	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	278537	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	134258	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	134144	54.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.76%	
35) Dibromofluoromethane	5.51	113	102981	49.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.20%	
50) Toluene-d8	8.72	98	373053	49.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.00%	
62) 4-Bromofluorobenzene	11.14	95	123291	43.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.64%	

Target Compounds

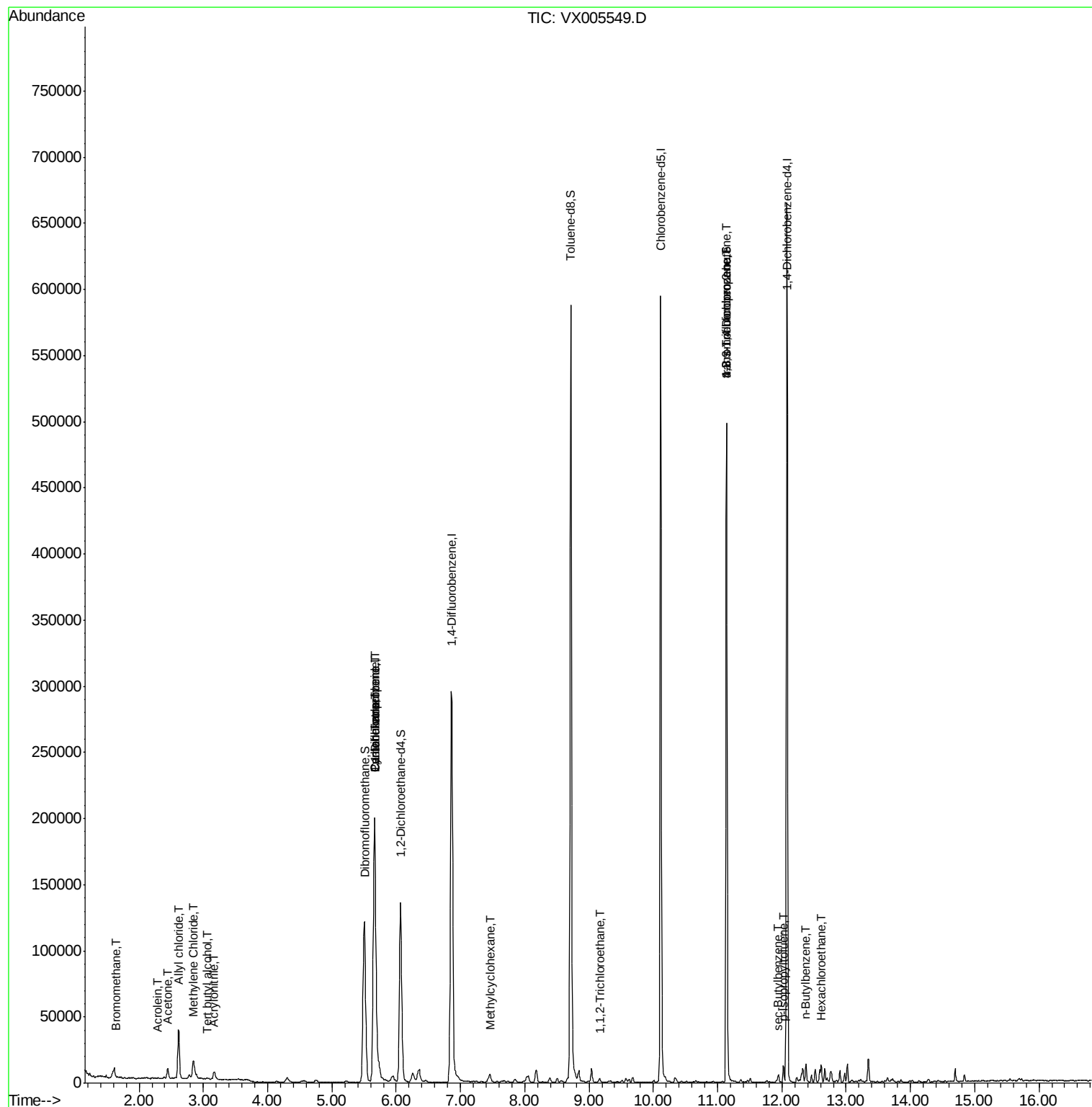
					Qvalue	
5) Bromomethane	1.64	94	335	0.216	ug/l	91
11) Tert butyl alcohol	3.06	59	973	1.466	ug/l #	72
13) Acrolein	2.29	56	110	0.325	ug/l #	73
14) Allyl chloride	2.62	41	3612	0.853	ug/l #	65
15) Acrylonitrile	3.17	53	520	0.349	ug/l #	33
16) Acetone	2.45	43	8371	6.422	ug/l	99
18) Methyl Acetate	2.78	43	3117	Below Cal		98
20) Methylene Chloride	2.85	84	704	0.322	ug/l #	73
31) Cyclohexane	5.66	56	4050	1.218	ug/l #	25
36) 1,1-Dichloropropene	5.66	75	14465	4.812	ug/l #	49
38) Carbon Tetrachloride	5.66	117	18870	5.960	ug/l #	16
39) Methylcyclohexane	7.45	83	1975	0.595	ug/l #	72
55) 1,1,2-Trichloroethane	9.16	97	969	0.439	ug/l #	24
76) 1,2,3-Trichloropropane	11.14	75	62806	22.967	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	62806	72.144	ug/l #	10
85) sec-Butylbenzene	11.94	105	2741	0.328	ug/l	82
86) p-Isopropyltoluene	12.02	119	4656	0.624	ug/l	89
89) n-Butylbenzene	12.37	91	1423	0.211	ug/l #	6
90) Hexachloroethane	12.61	117	621	0.482	ug/l #	3

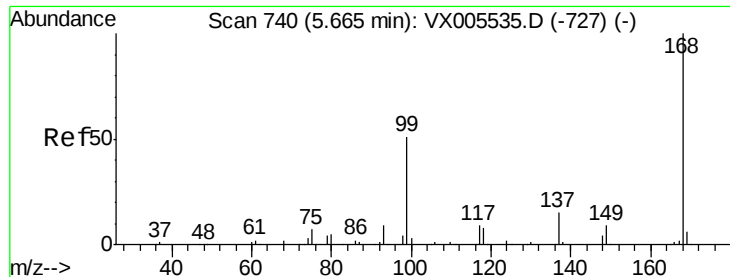
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005549.D

Acq: 24 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampleId :

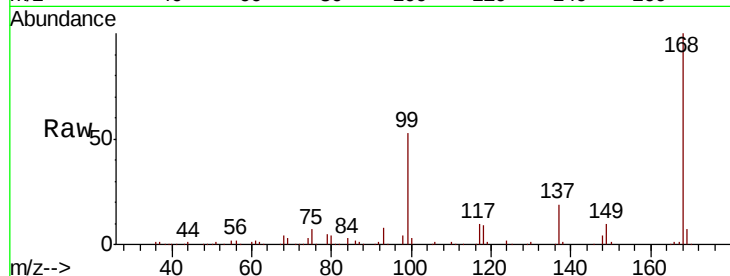
S37-0003

Tot Ion:168 Resp: 202096

Ion Ratio Lower Upper

168 100

99 52.7 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

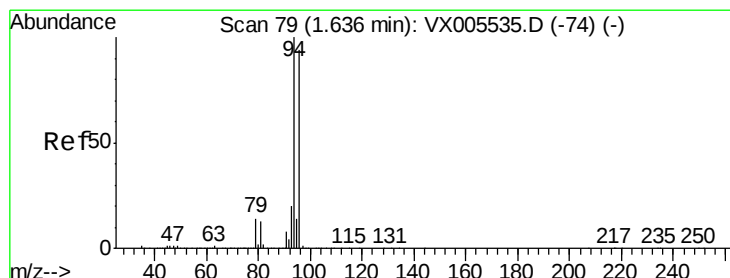
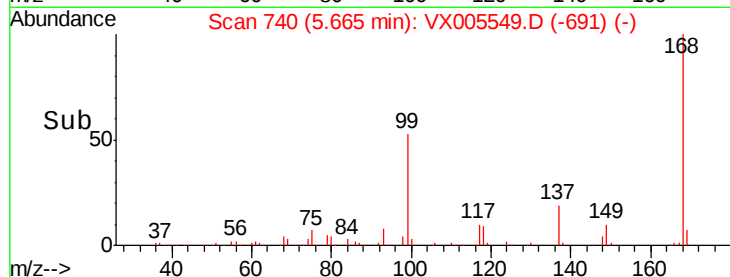
40000

20000

0

Time-->

5.60 5.70 5.80



#5

Bromomethane

Concen: 0.216 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005549.D

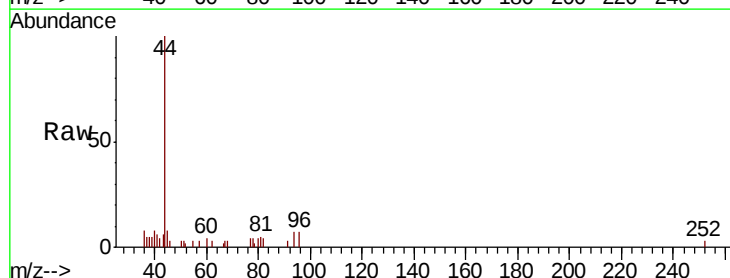
Acq: 24 Oct 2018 18:46

Tgt Ion: 94 Resp: 335

Ion Ratio Lower Upper

94 100

96 101.3 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

150

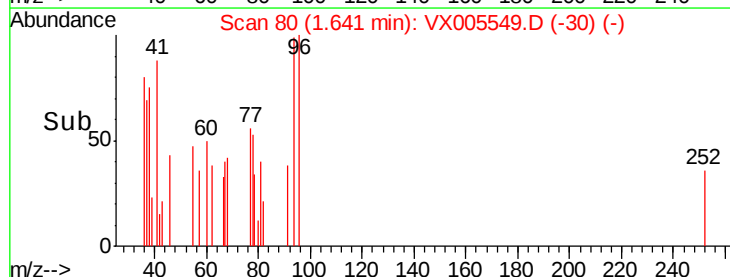
100

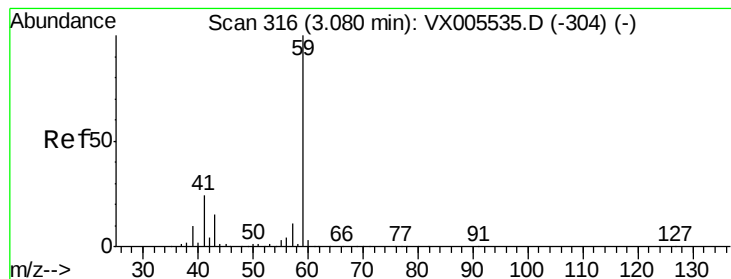
50

0

Time-->

1.60 1.65 1.70





#11

Tert butyl alcohol

Concen: 1.466 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX005549.D

Acq: 24 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampleId :

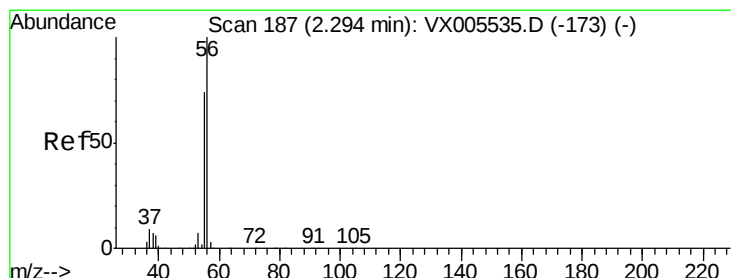
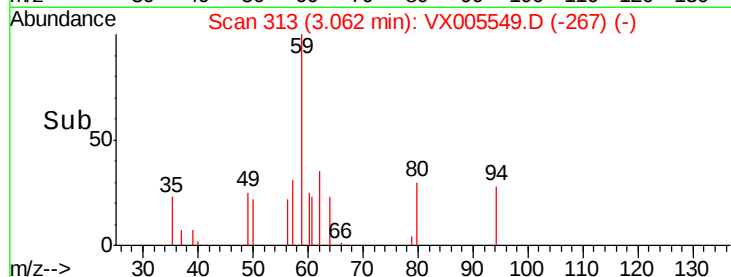
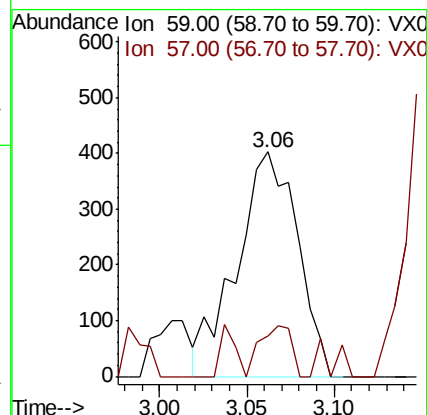
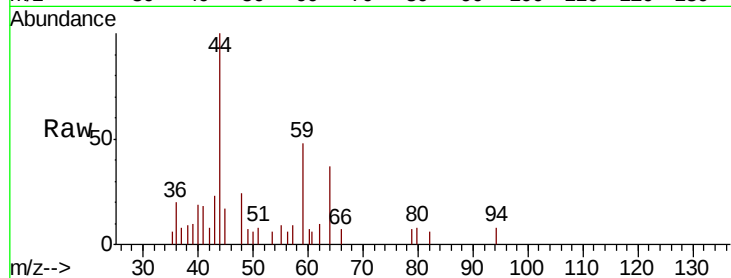
S37-0003

Tot Ion: 59 Resp: 973

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#13

Acrolein

Concen: 0.325 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX005549.D

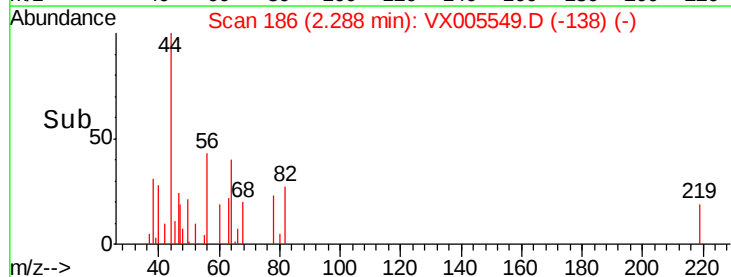
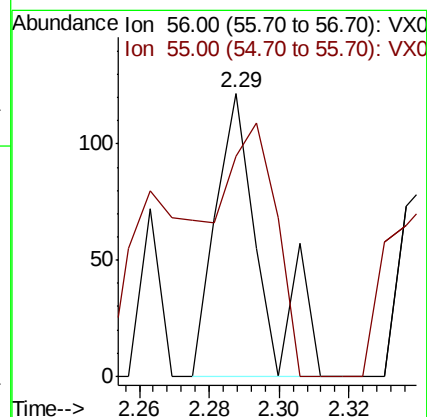
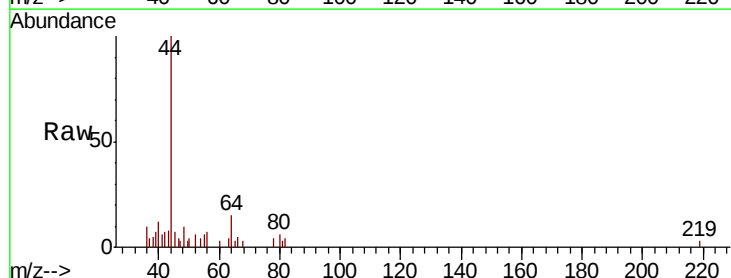
Acq: 24 Oct 2018 18:46

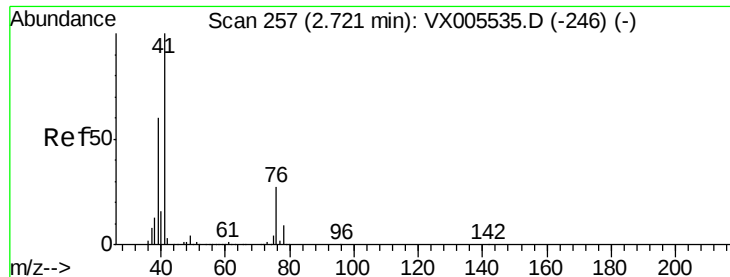
Tgt Ion: 56 Resp: 110

Ion Ratio Lower Upper

56 100

55 90.0 54.7 82.1#

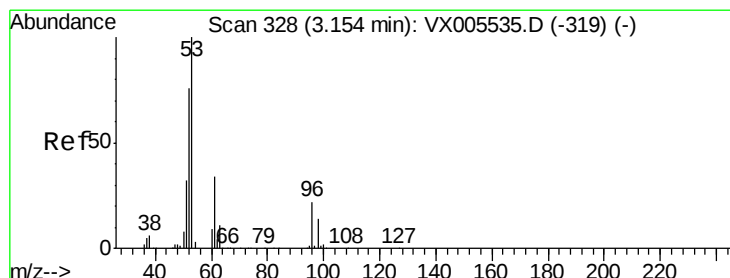
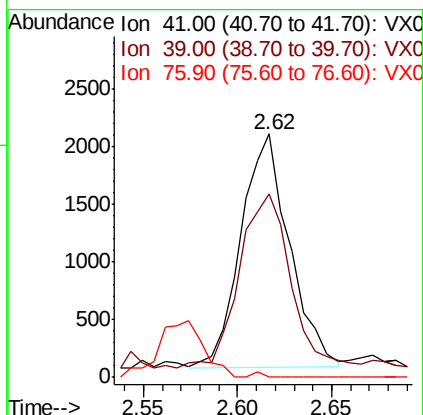
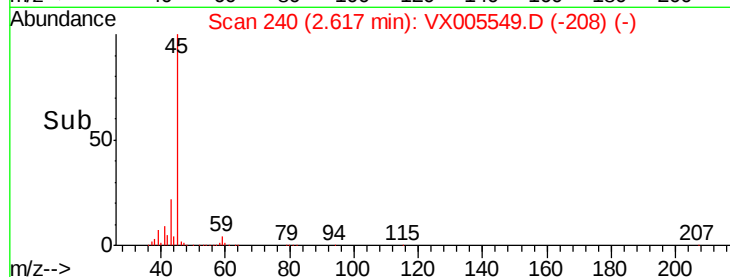
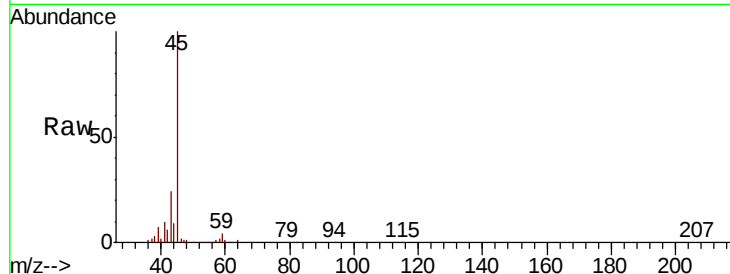




#14
Allvl chloride
Concen: 0.853 ug/l
RT: 2.62 min Scan# 240
Delta R.T. -0.10 min
Lab File: VX005549.D
Acq: 24 Oct 2018 18:46

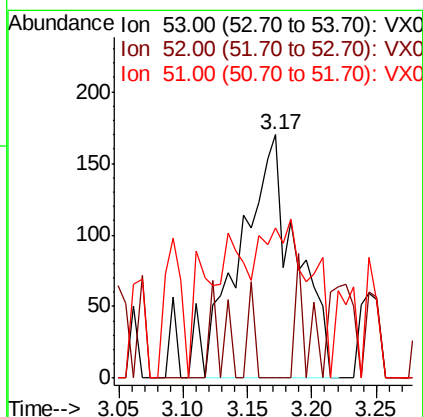
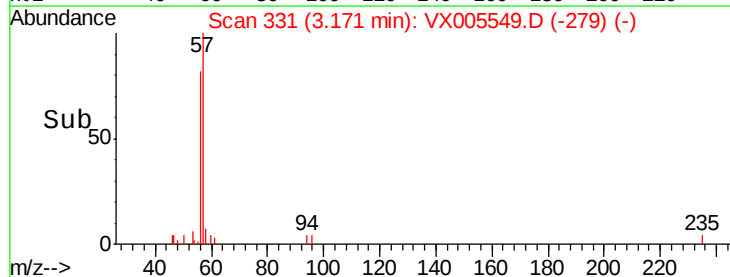
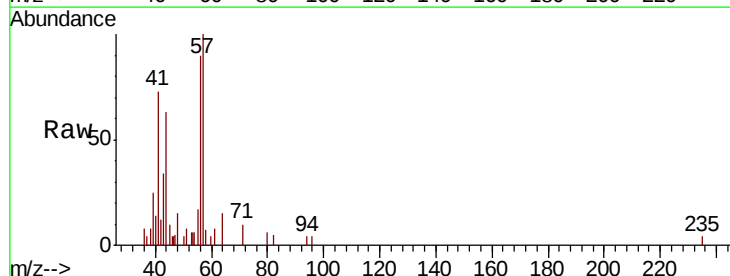
Instrument :
MSVOA_X
ClientSampled :
S37-0003

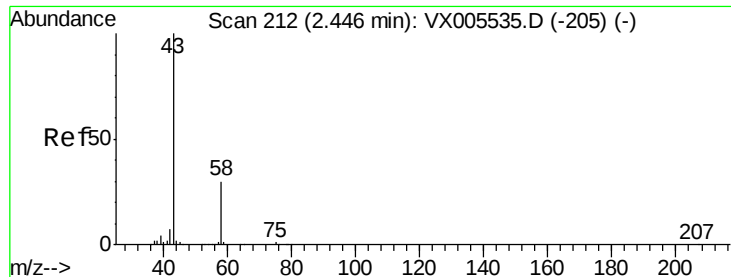
Tot Ion: 41 Resp: 3612
Ion Ratio Lower Upper
41 100
39 78.1 48.9 73.3#
76 0.0 26.7 40.1#



#15
Acrylonitrile
Concen: 0.349 ug/l
RT: 3.17 min Scan# 331
Delta R.T. 0.02 min
Lab File: VX005549.D
Acq: 24 Oct 2018 18:46

Tgt Ion: 53 Resp: 520
Ion Ratio Lower Upper
53 100
52 9.8 65.2 97.8#
51 56.5 28.2 42.2#





#16

Acetone

Concen: 6.422 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005549.D

Acq: 24 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampled :

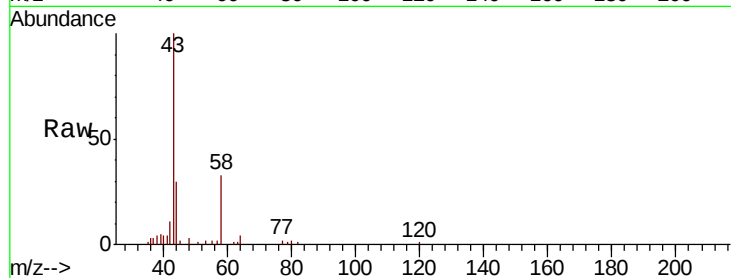
S37-0003

Tot Ion: 43 Resp: 8371

Ion Ratio Lower Upper

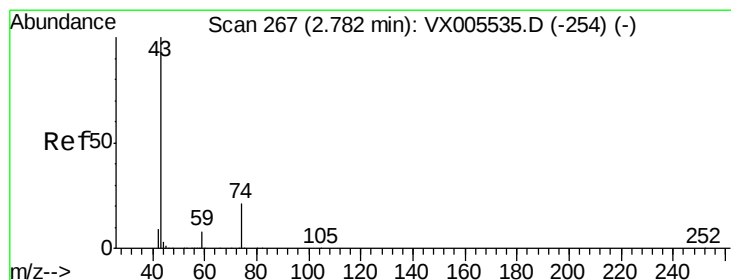
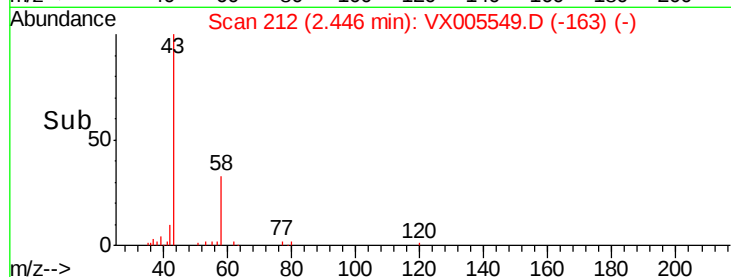
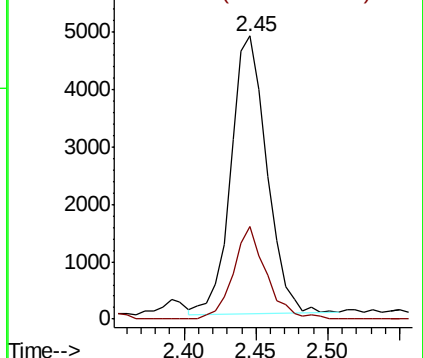
43 100

58 33.4 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005549.D

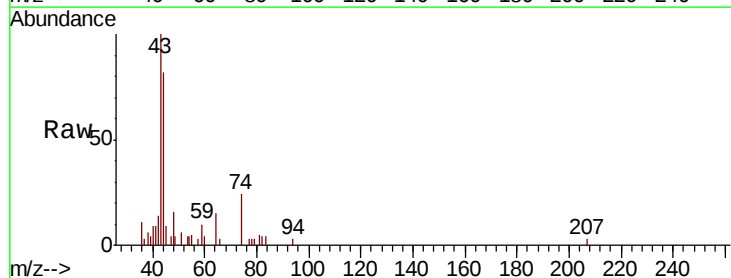
Acq: 24 Oct 2018 18:46

Tgt Ion: 43 Resp: 3117

Ion Ratio Lower Upper

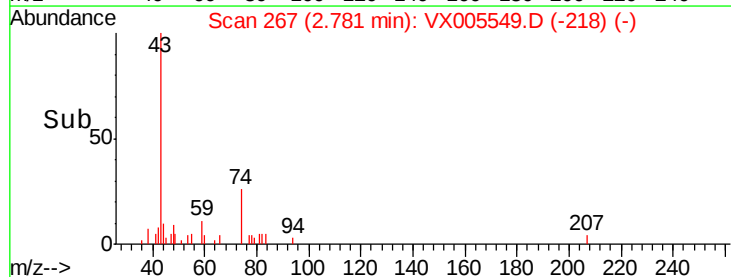
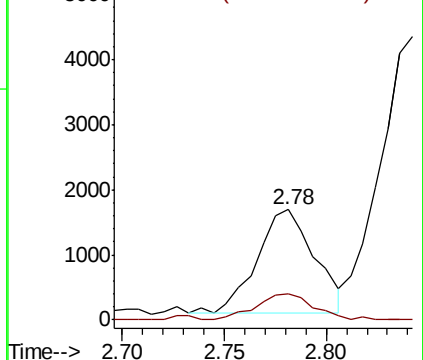
43 100

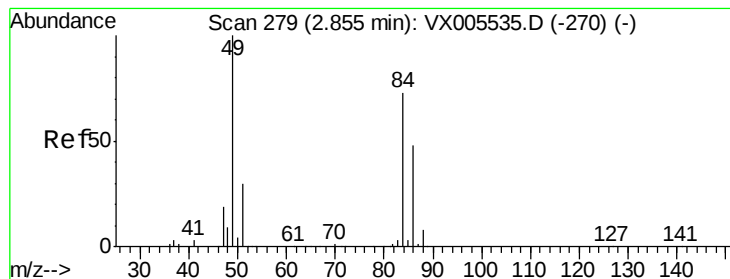
74 25.3 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methylene Chloride

Concen: 0.322 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX005549.D

Acq: 24 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampled :

S37-0003

Tot Ion: 84 Resp: 704

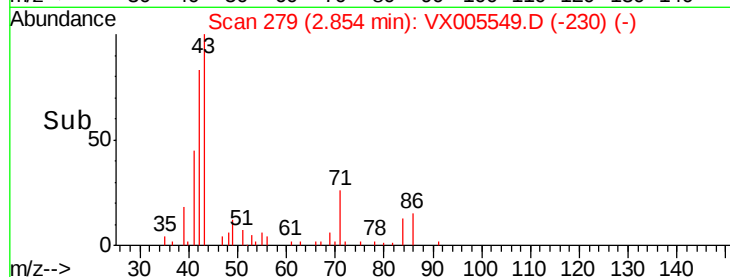
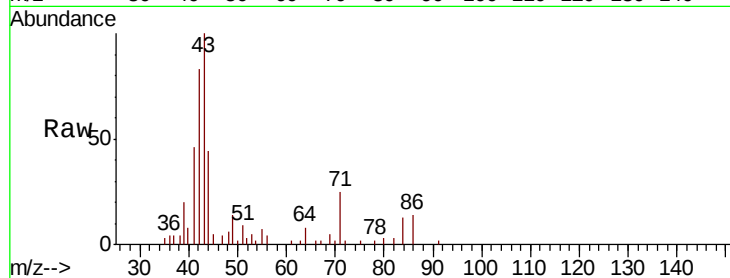
Ion Ratio Lower Upper

84 100

49 114.3 101.2 151.8

51 54.5 29.5 44.3#

86 111.7 52.3 78.5#

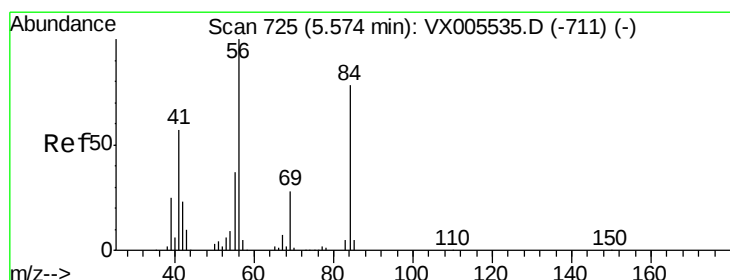
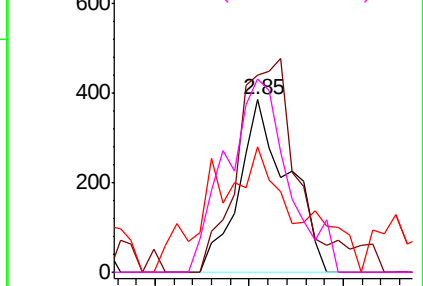


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#31

Cyclohexane

Concen: 1.218 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005549.D

Acq: 24 Oct 2018 18:46

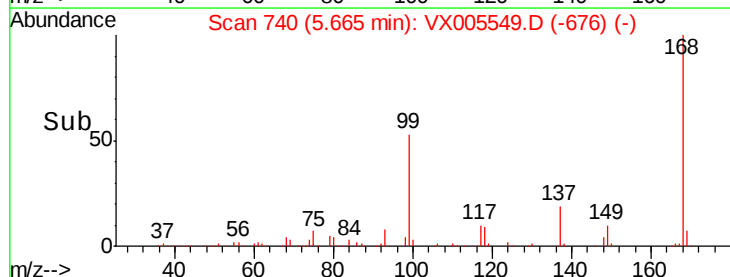
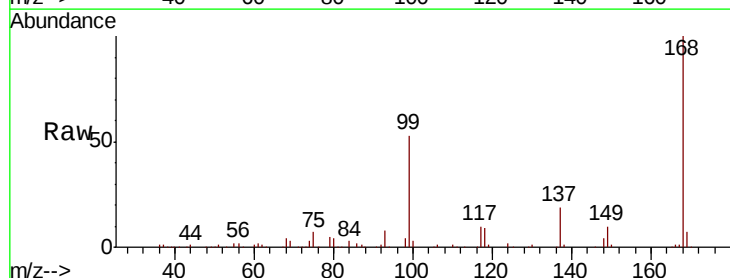
Tgt Ion: 56 Resp: 4050

Ion Ratio Lower Upper

56 100

69 145.2 25.4 38.2#

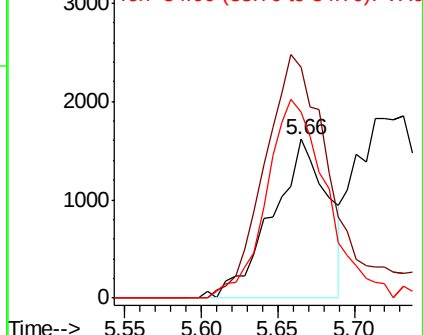
84 117.1 71.4 107.2#

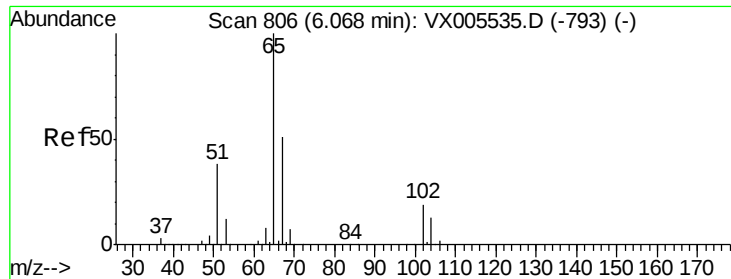


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 54.376 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX005549.D

Acq: 24 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampleId :

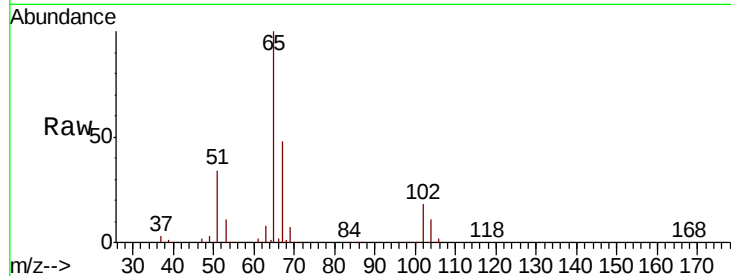
S37-0003

Tot Ion: 65 Resp: 134144

Ion Ratio Lower Upper

65 100

67 52.3 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

50000

40000

30000

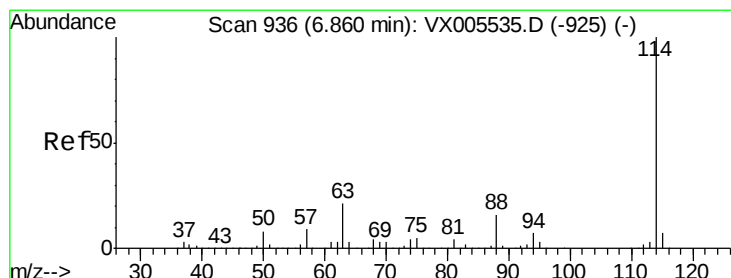
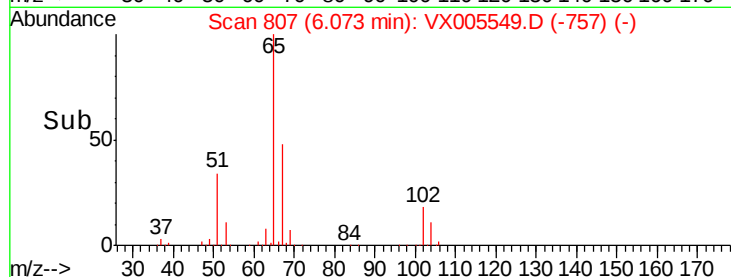
20000

10000

0

5.90 6.00 6.10 6.20 6.30

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX005549.D

Acq: 24 Oct 2018 18:46

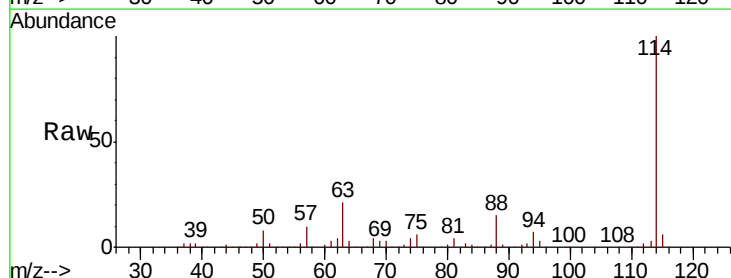
Tgt Ion: 114 Resp: 309738

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.0

88 15.1 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.86

150000

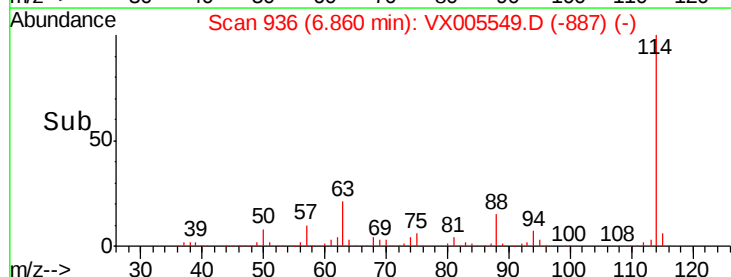
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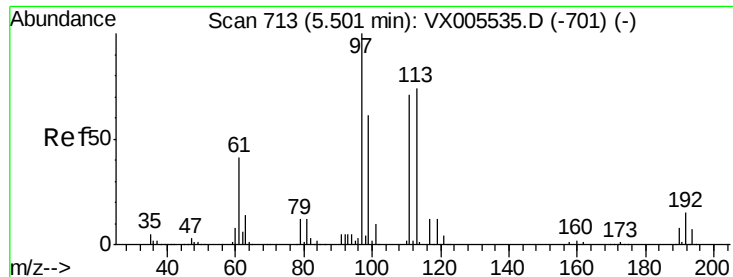
50000

0

6.70 6.80 6.90 7.00

Time-->

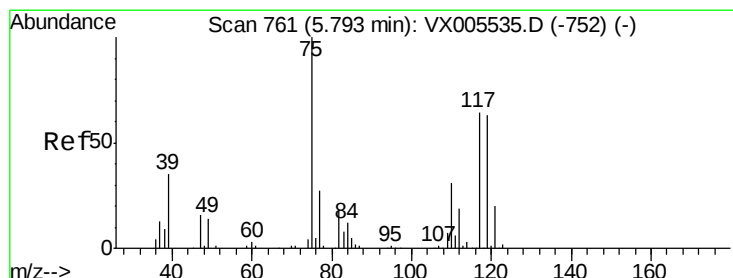
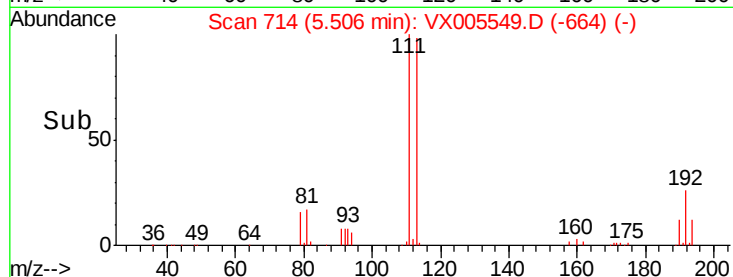
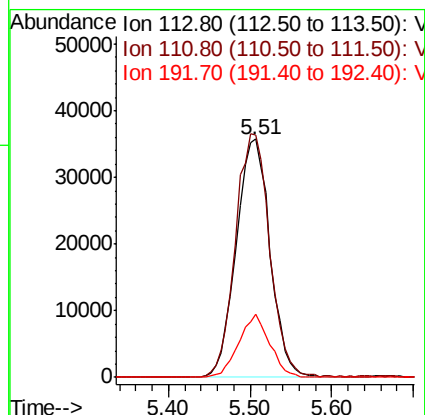
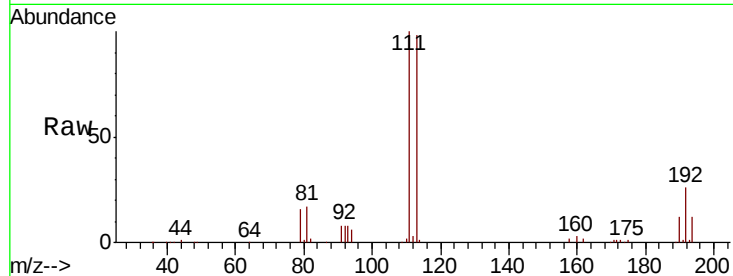




#35
 Dibromofluoromethane
 Concen: 49.102 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005549.D
 Acq: 24 Oct 2018 18:46

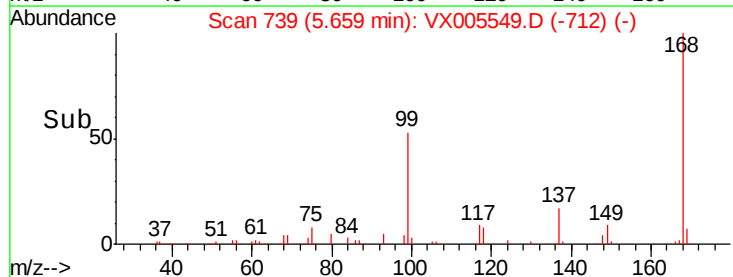
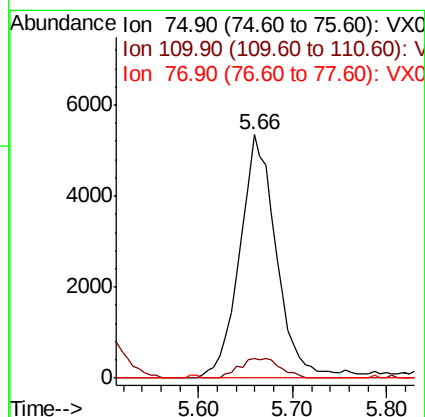
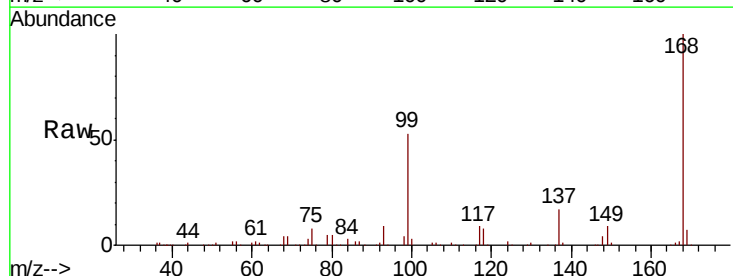
Instrument :
 MSVOA_X
 ClientSampleId :
 S37-0003

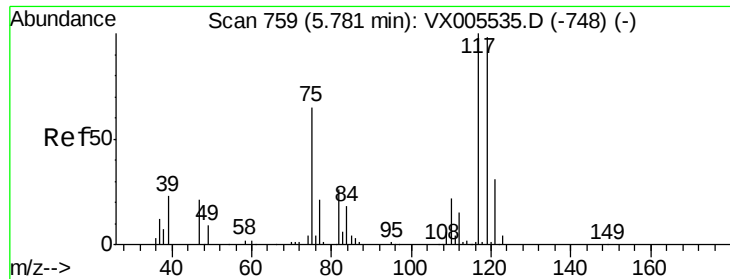
Tot Ion:113 Resp: 102981
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.4 123.6
 192 24.1 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 4.812 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX005549.D
 Acq: 24 Oct 2018 18:46

Tgt Ion: 75 Resp: 14465
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.0 54.0#
 77 0.0 24.6 36.8#

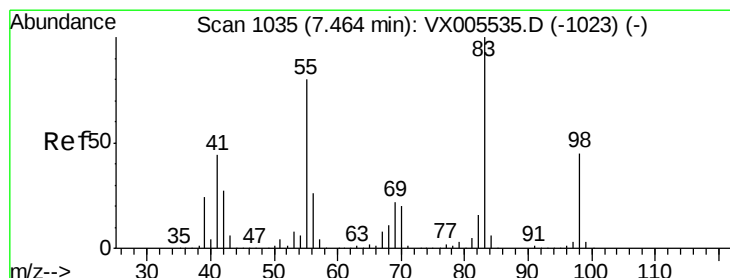
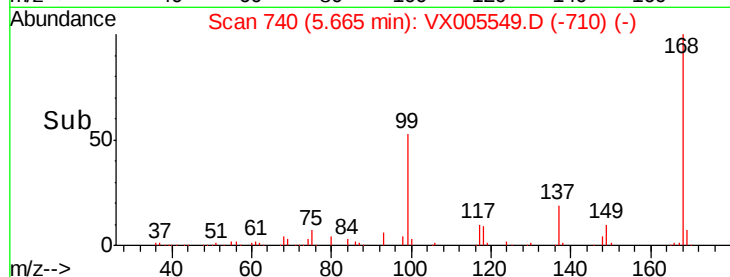
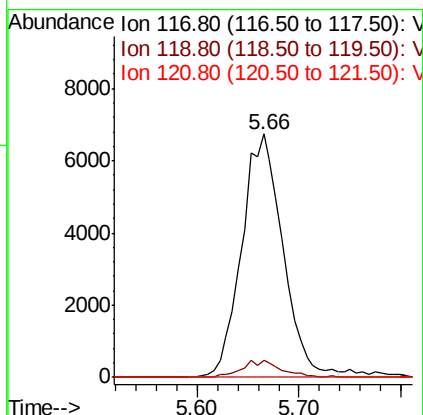
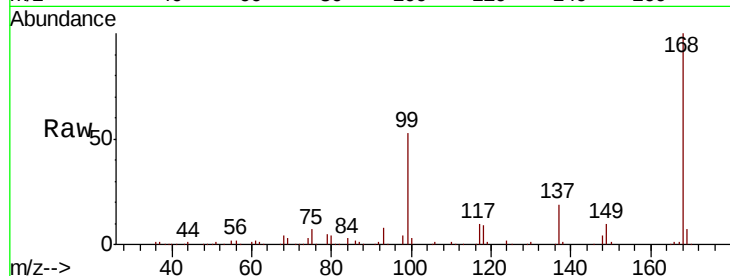




#38
Carbon Tetrachloride
Concen: 5.960 ug/l
RT: 5.66 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005549.D
Acq: 24 Oct 2018 18:46

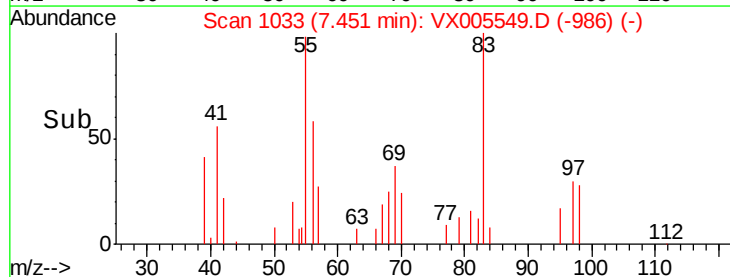
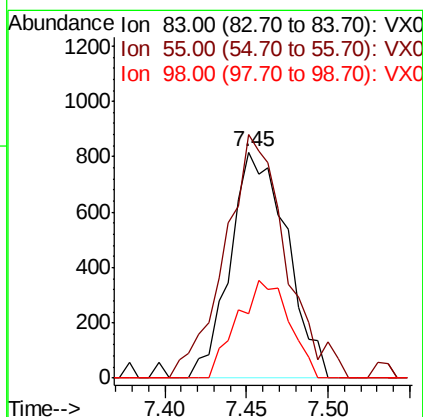
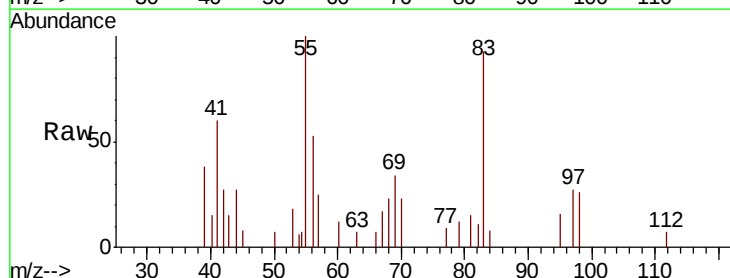
Instrument :
MSVOA_X
ClientSampled :
S37-0003

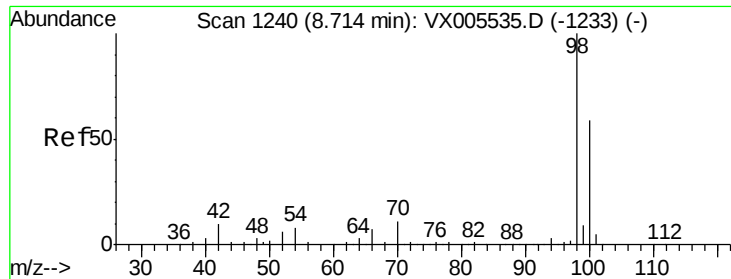
Tot Ion:117 Resp: 18870
Ion Ratio Lower Upper
117 100
119 6.9 78.8 118.2#
121 0.0 24.9 37.3#



#39
Methylcyclohexane
Concen: 0.595 ug/l
RT: 7.45 min Scan# 1033
Delta R.T. -0.01 min
Lab File: VX005549.D
Acq: 24 Oct 2018 18:46

Tgt Ion: 83 Resp: 1975
Ion Ratio Lower Upper
83 100
55 99.4 61.0 91.4#
98 28.4 39.6 59.4#





#50

Toluene-d8

Concen: 49.503 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX005549.D

Acq: 24 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampled :

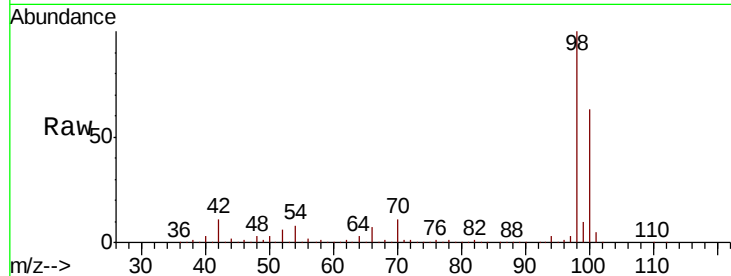
S37-0003

Tot Ion: 98 Resp: 373053

Ion Ratio Lower Upper

98 100

100 63.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

250000

200000

150000

100000

50000

0

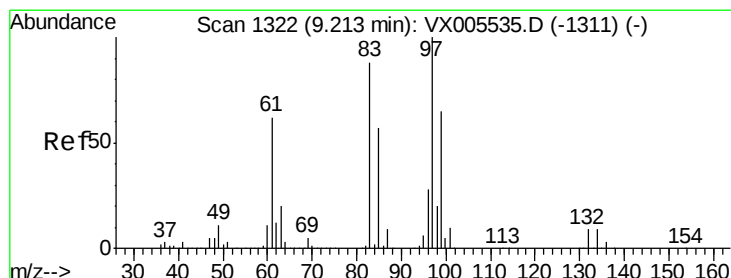
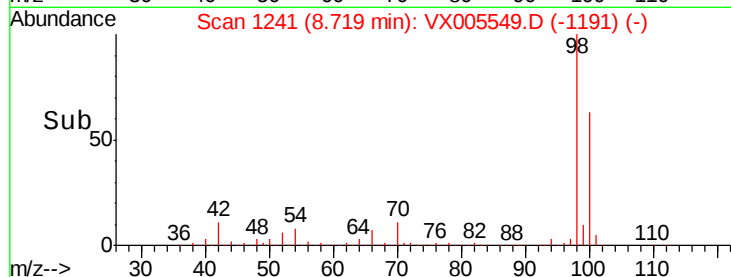
8.60

8.72

8.80

9.00

Time-->



#55

1,1,2-Trichloroethane

Concen: 0.439 ug/l

RT: 9.16 min Scan# 1314

Delta R.T. -0.05 min

Lab File: VX005549.D

Acq: 24 Oct 2018 18:46

Tgt Ion: 97 Resp: 969

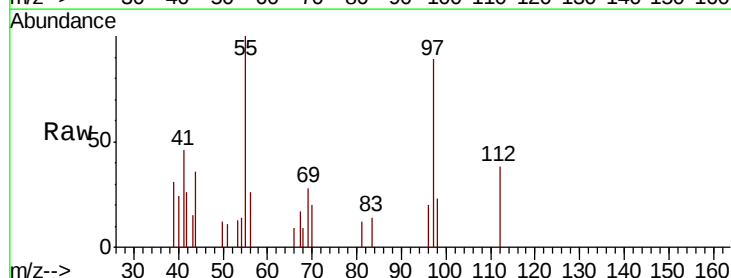
Ion Ratio Lower Upper

97 100

83 16.2 66.4 99.6#

85 0.0 43.3 64.9#

99 0.0 49.0 73.4#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

800

600

400

200

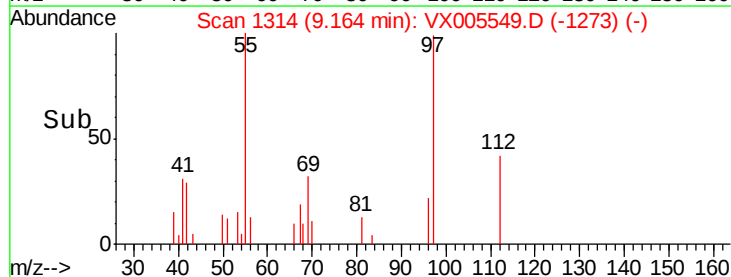
0

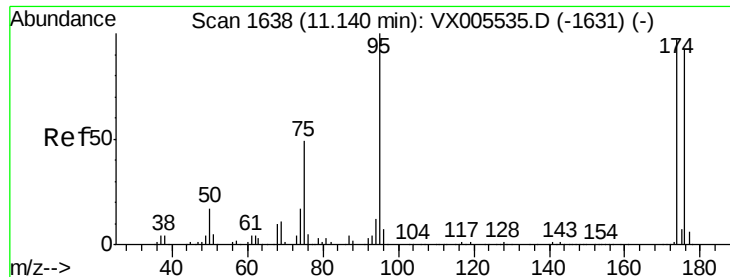
9.10

9.16

9.20

Time-->

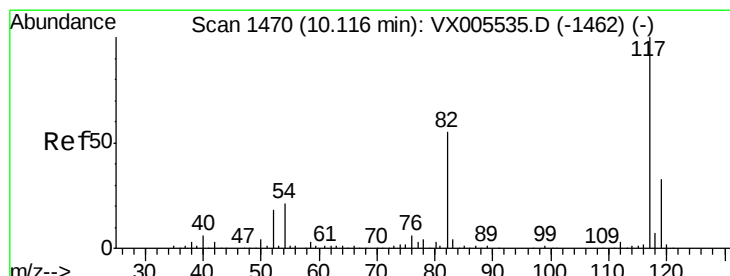
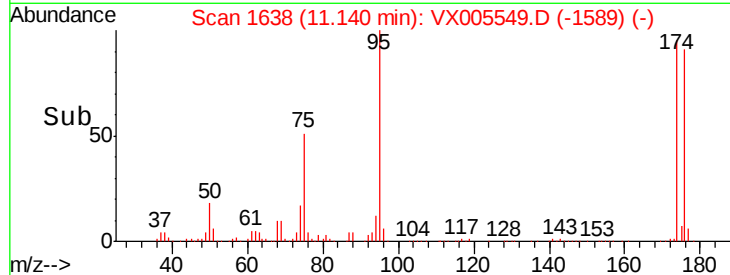
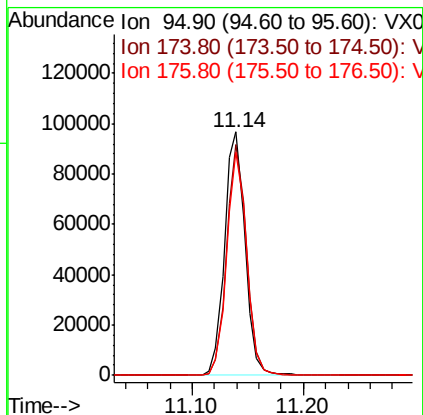
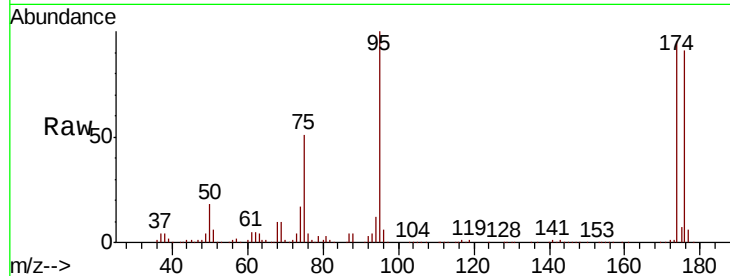




#62
4-Bromofluorobenzene
Concen: 43.322 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005549.D
Acq: 24 Oct 2018 18:46

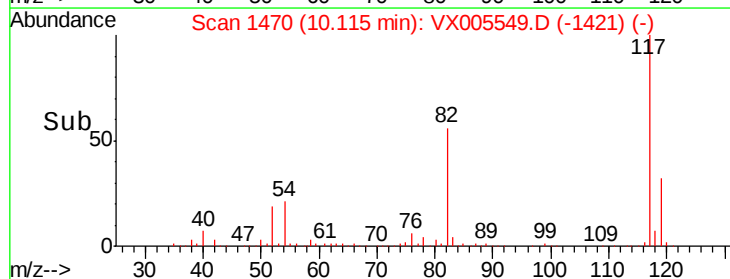
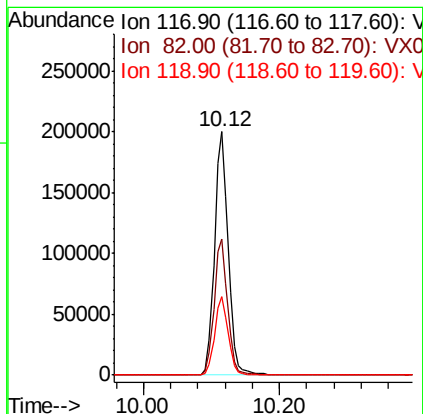
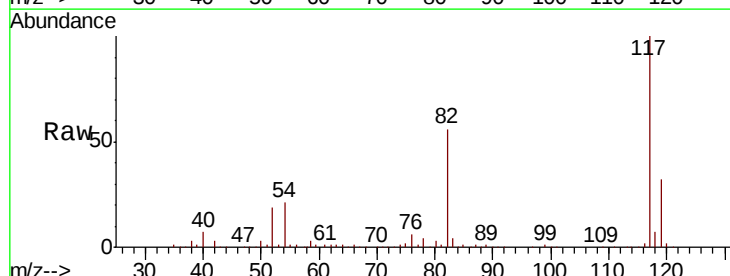
Instrument :
MSVOA_X
ClientSampleId :
S37-0003

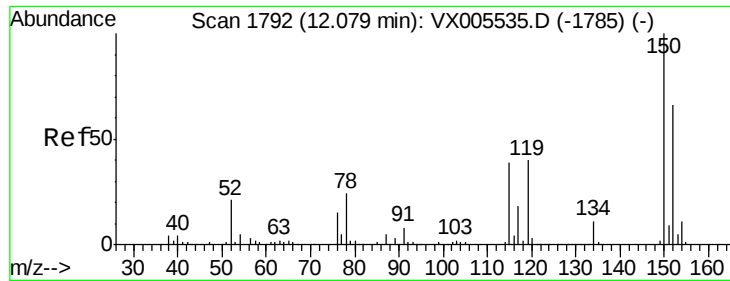
Tot Ion: 95 Resp: 123291
Ion Ratio Lower Upper
95 100
174 92.4 0.0 185.2
176 89.3 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005549.D
Acq: 24 Oct 2018 18:46

Tgt Ion: 117 Resp: 278537
Ion Ratio Lower Upper
117 100
82 55.8 47.8 71.6
119 32.3 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005549.D

Acq: 24 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampleId :

S37-0003

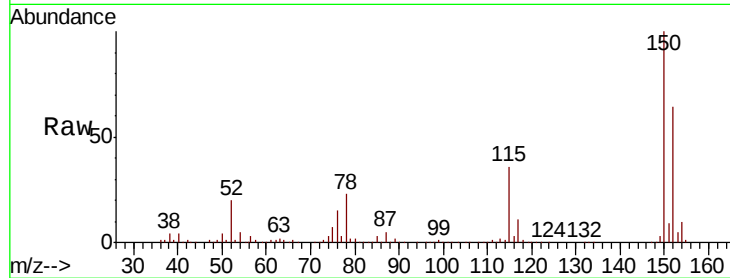
Tot Ion:152 Resp: 134258

Ion Ratio Lower Upper

152 100

115 55.7 39.0 117.0

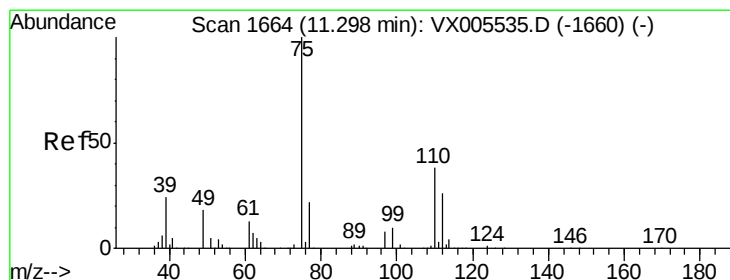
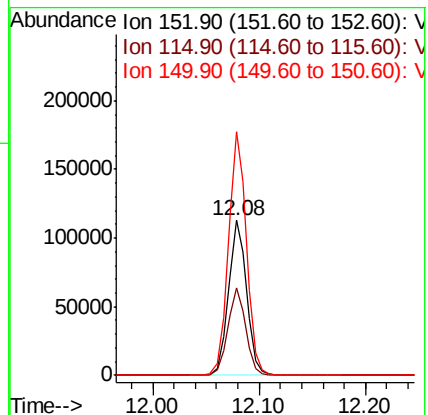
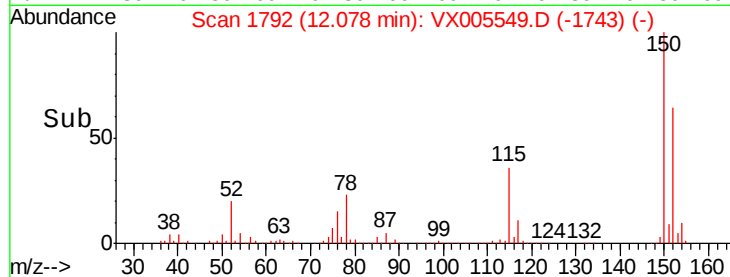
150 156.2 0.0 351.0



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: 22.967 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005549.D

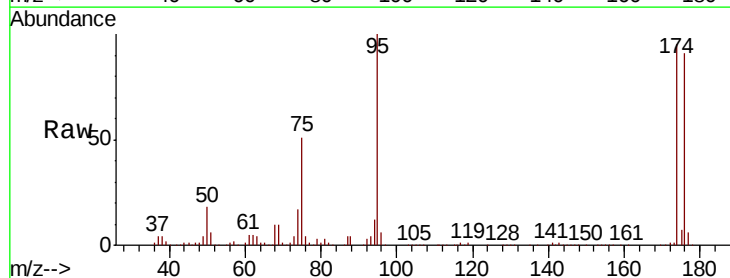
Acq: 24 Oct 2018 18:46

Tgt Ion: 75 Resp: 62806

Ion Ratio Lower Upper

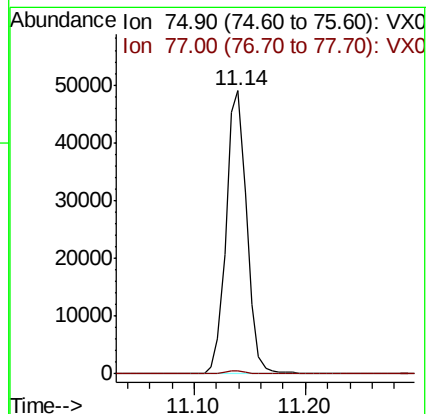
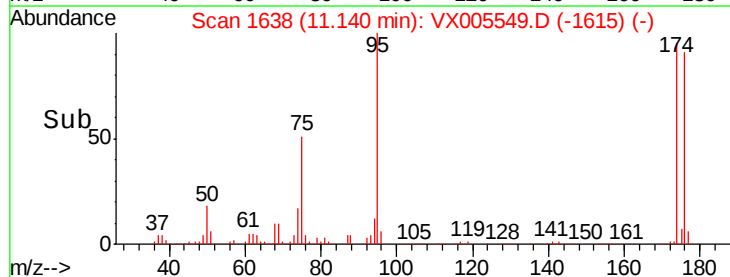
75 100

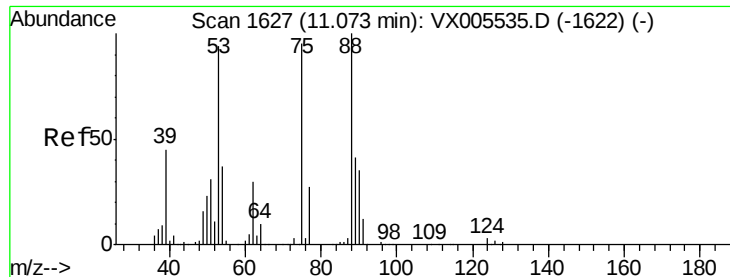
77 1.2 20.2 60.6#



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: 72.144 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005549.D

Acq: 24 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampleId :

S37-0003

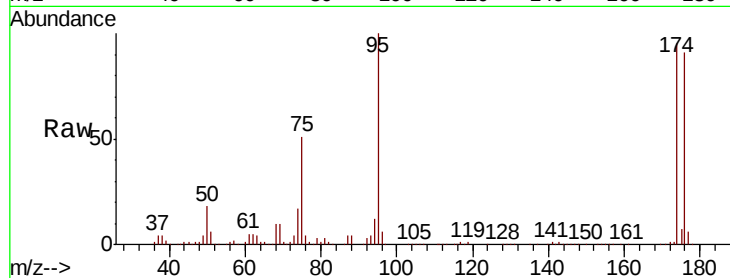
Tot Ion: 75 Resp: 62806

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

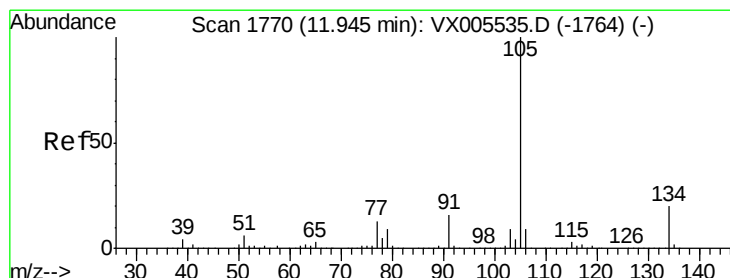
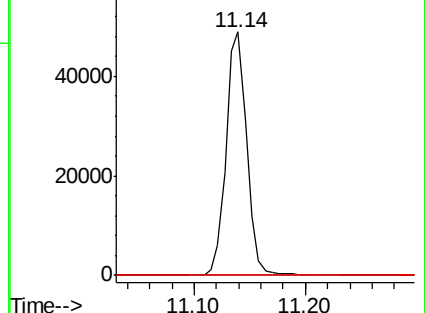
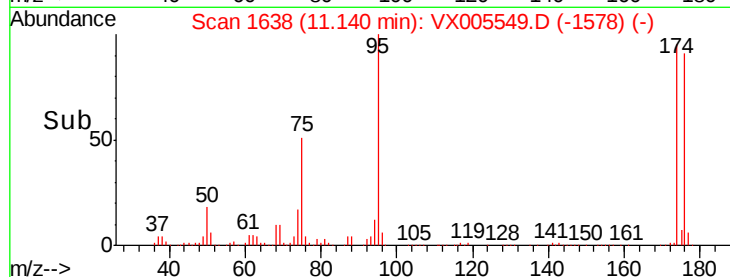
89 0.0 37.2 55.8#



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



#85

sec-Butylbenzene

Concen: 0.328 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX005549.D

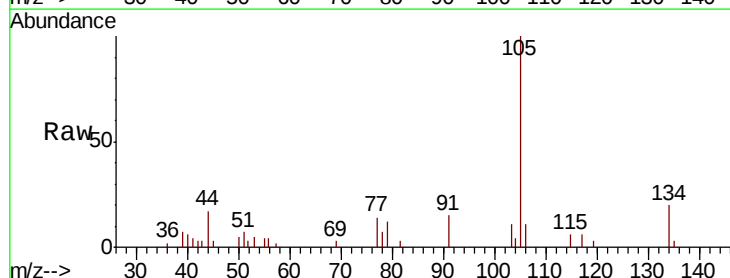
Acq: 24 Oct 2018 18:46

Tgt Ion:105 Resp: 2741

Ion Ratio Lower Upper

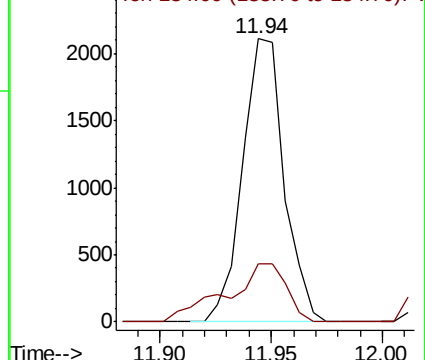
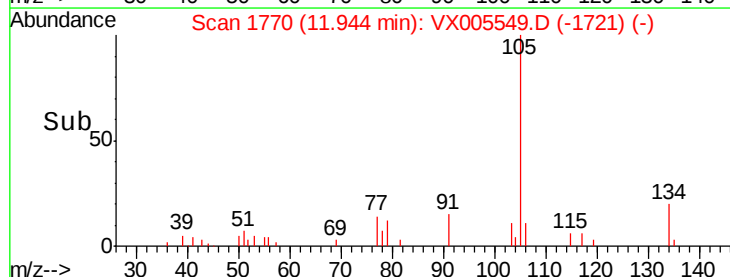
105 100

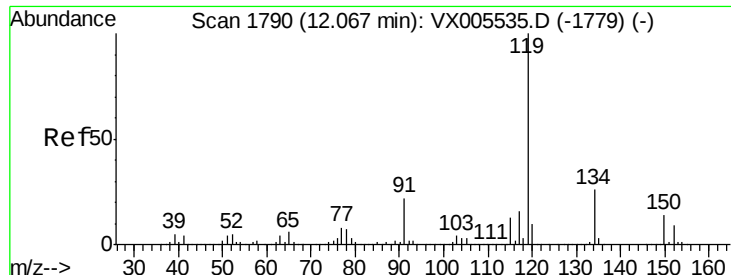
134 29.6 10.5 31.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

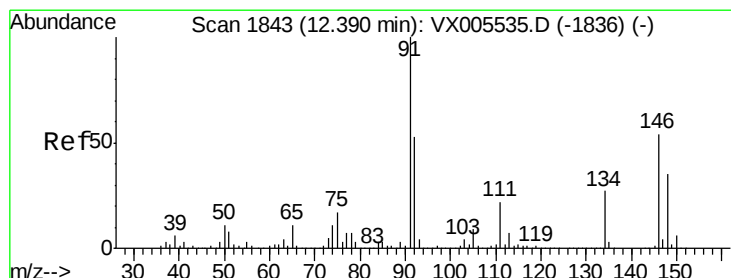
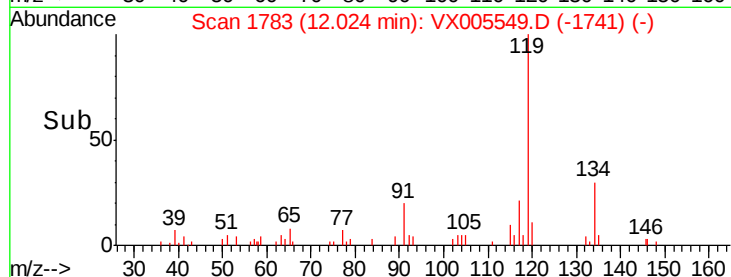
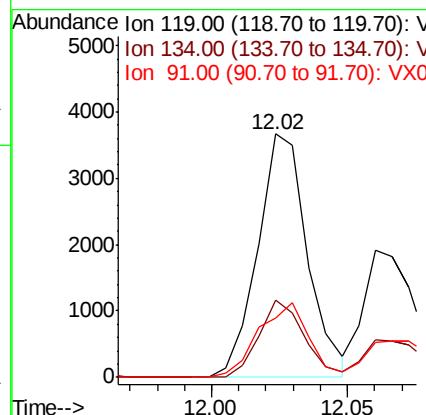
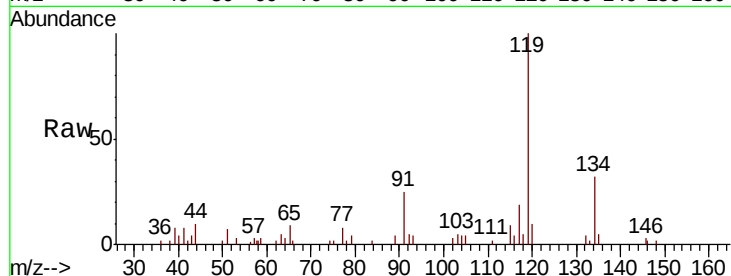




#86
p-Isopropyltoluene
Concen: 0.624 ug/l
RT: 12.02 min Scan# 1783
Delta R.T. -0.04 min
Lab File: VX005549.D
Acq: 24 Oct 2018 18:46

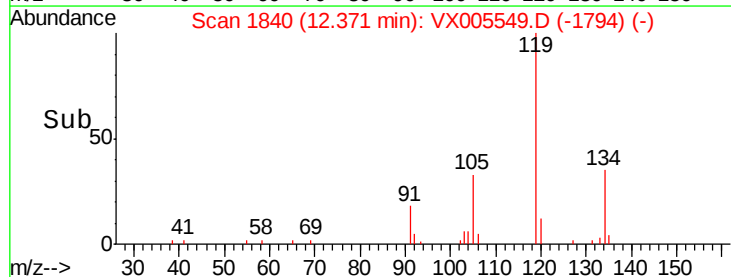
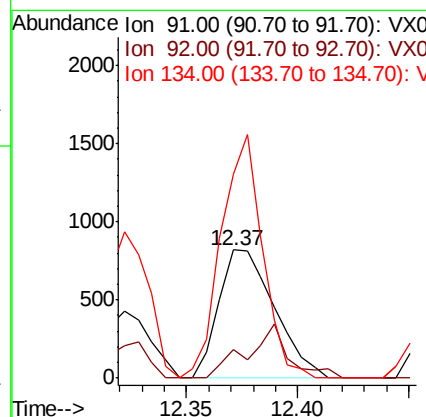
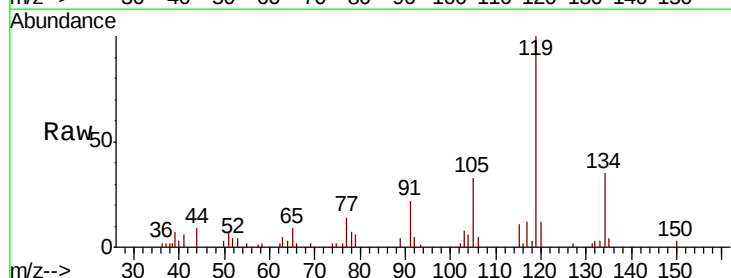
Instrument :
MSVOA_X
ClientSampleId :
S37-0003

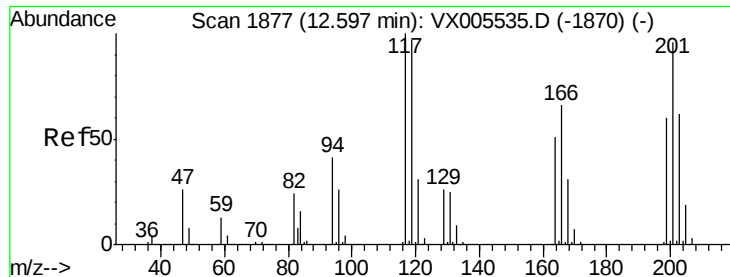
Tot Ion: 119 Resp: 4656
Ion Ratio Lower Upper
119 100
134 29.0 13.4 40.2
91 31.1 10.9 32.7



#89
n-Butylbenzene
Concen: 0.211 ug/l
RT: 12.37 min Scan# 1840
Delta R.T. -0.02 min
Lab File: VX005549.D
Acq: 24 Oct 2018 18:46

Tgt Ion: 91 Resp: 1423
Ion Ratio Lower Upper
91 100
92 31.9 27.3 81.9
134 141.3 13.6 40.7#





#90

Hexachloroethane

Concen: 0.482 ug/l

RT: 12.61 min Scan# 1879

Delta R.T. 0.01 min

Lab File: VX005549.D

Acq: 24 Oct 2018 18:46

Instrument :

MSVOA_X

ClientSampleId :

S37-0003

Tot Ion:117 Resp: 621

Ion Ratio Lower Upper

117 100

201 0.0 46.9 140.6#

