

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102518\
 Data File : VX005585.D
 Acq On : 25 Oct 2018 13:23
 Operator : JC/MD
 Sample : J5655-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S37-0006

Quant Time: Oct 26 05:21:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	199228	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	302610	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	274102	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	133978	50.00	ug/l	0.00

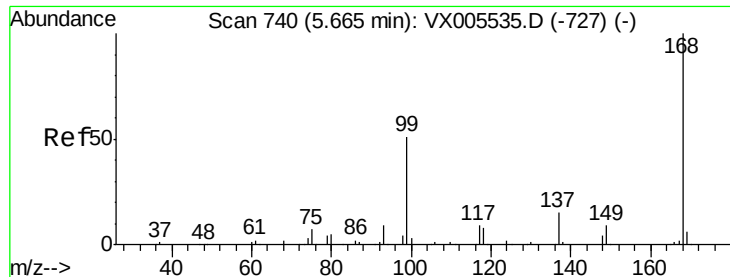
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	129832	53.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.78%	
35) Dibromofluoromethane	5.49	113	103578	50.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.10%	
50) Toluene-d8	8.71	98	369058	50.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.26%	
62) 4-Bromofluorobenzene	11.14	95	122581	44.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.18%	

Target Compounds

					Qvalue	
5) Bromomethane	1.64	94	440	0.287	ug/l #	79
10) Methyl Iodide	2.51	142	410	2.914	ug/l #	90
11) Tert butyl alcohol	3.02	59	3066	4.685	ug/l #	77
13) Acrolein	2.28	56	190	0.569	ug/l #	61
15) Acrylonitrile	3.15	53	376	0.256	ug/l #	36
16) Acetone	2.45	43	7563	5.885	ug/l	97
18) Methyl Acetate	2.78	43	670	Below Cal	#	84
20) Methylene Chloride	2.86	84	977	0.454	ug/l #	91
25) 2-Butanone	4.72	43	1383	0.707	ug/l	95
31) Cyclohexane	5.67	56	4526	1.380	ug/l #	3
36) 1,1-Dichloropropene	5.67	75	14268	4.859	ug/l #	50
38) Carbon Tetrachloride	5.65	117	19099	6.175	ug/l #	16
39) Methylcyclohexane	7.46	83	8601	2.652	ug/l	90
43) Isopropyl Acetate	6.35	43	13766	2.451	ug/l #	63
51) 4-Methyl-2-Pentanone	8.67	43	879	0.233	ug/l #	38
55) 1,1,2-Trichloroethane	9.16	97	1604	0.744	ug/l #	19
59) 2-Hexanone	9.31	43	1149	0.386	ug/l	89
76) 1,2,3-Trichloropropane	11.14	75	61193	21.557	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	61193	70.438	ug/l #	9

(#) = 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: VX005585.D

Acq: 25 Oct 2018 13:23

Instrument :

MSVOA_X

ClientSampleId :

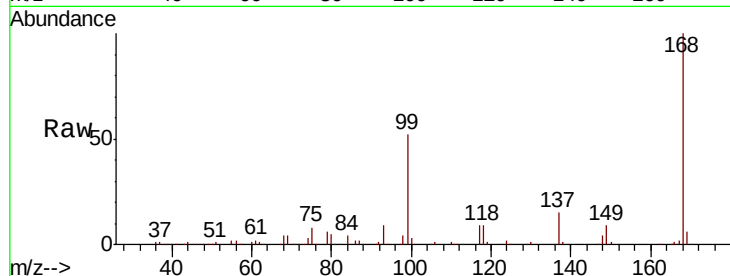
S37-0006

Tot Ion:168 Resp: 199228

Ion Ratio Lower Upper

168 100

99 52.3 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

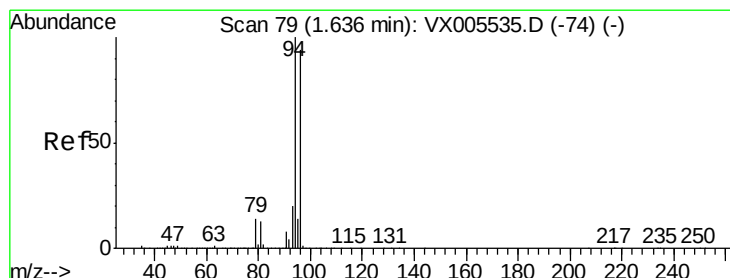
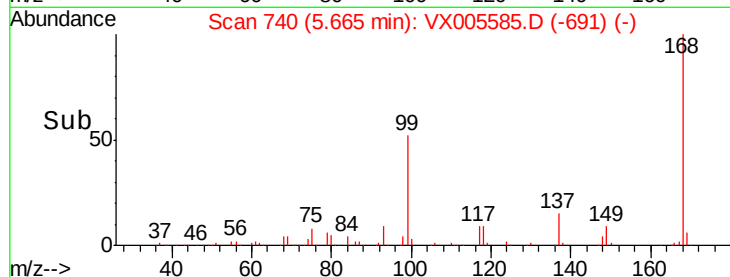
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.287 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005585.D

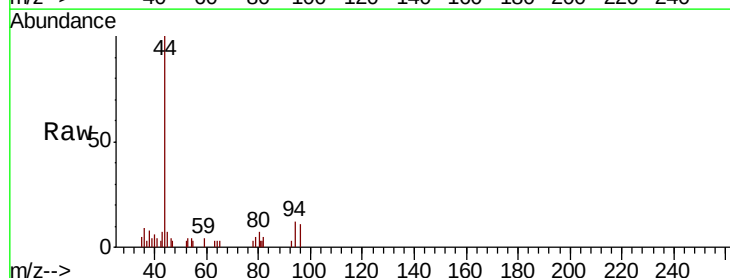
Acq: 25 Oct 2018 13:23

Tgt Ion: 94 Resp: 440

Ion Ratio Lower Upper

94 100

96 74.0 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

250

200

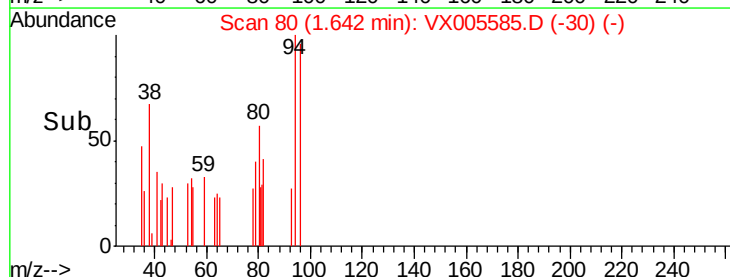
150

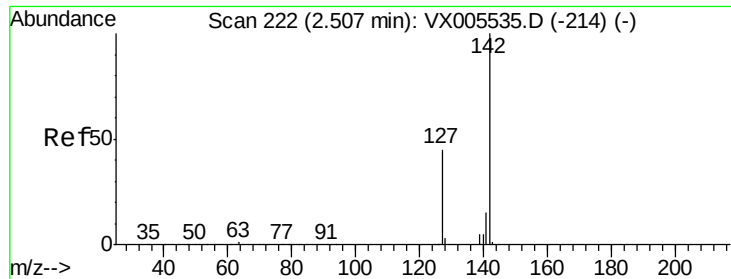
100

50

0

Time--> 1.60 1.65 1.70





#10

Methvl Iodide

Concen: 2.914 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005585.D

Acq: 25 Oct 2018 13:23

Instrument :

MSVOA_X

ClientSampleId :

S37-0006

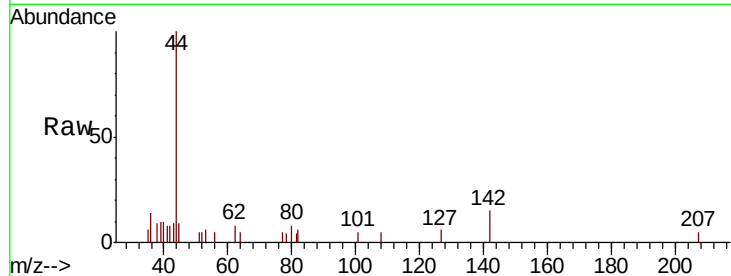
Tot Ion:142 Resp: 410

Ion Ratio Lower Upper

142 100

127 46.1 36.0 54.0

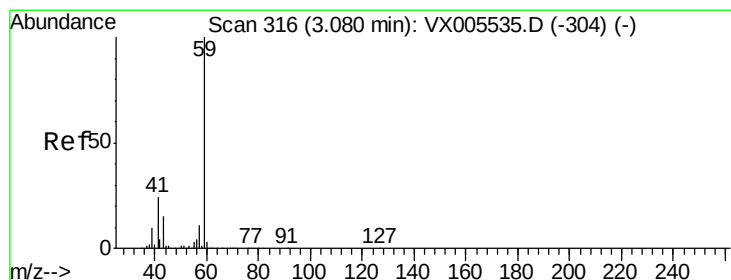
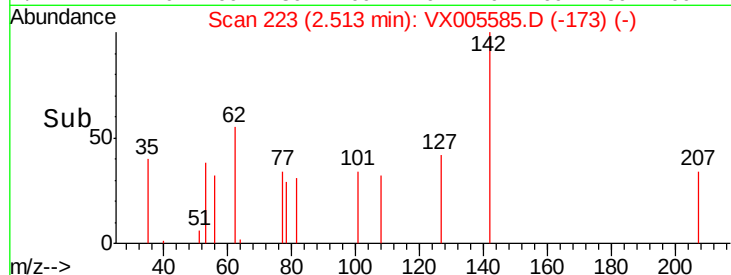
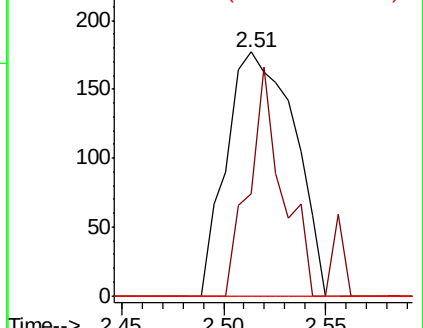
141 0.0 11.7 17.5#



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



#11

Tert butyl alcohol

Concen: 4.685 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005585.D

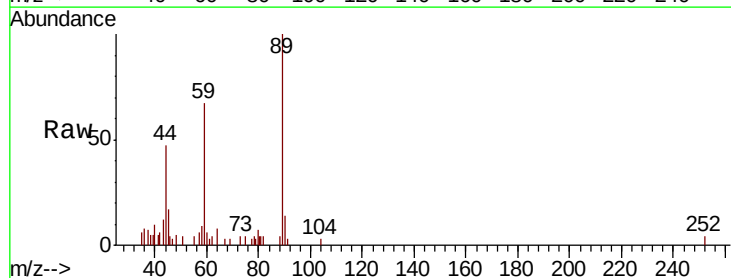
Acq: 25 Oct 2018 13:23

Tgt Ion: 59 Resp: 3066

Ion Ratio Lower Upper

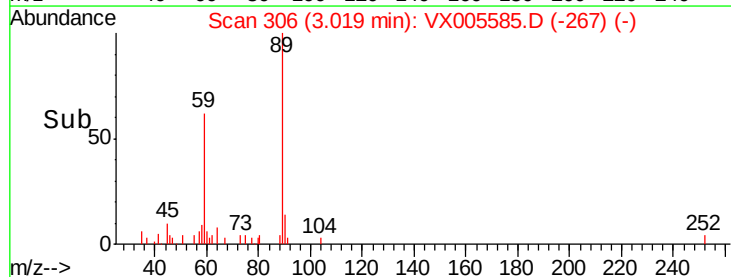
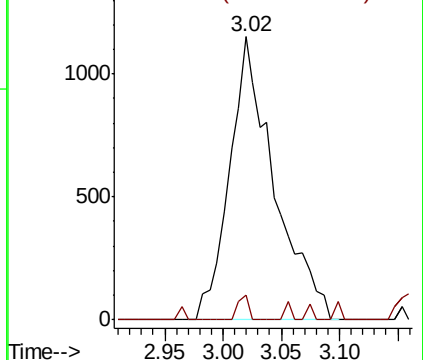
59 100

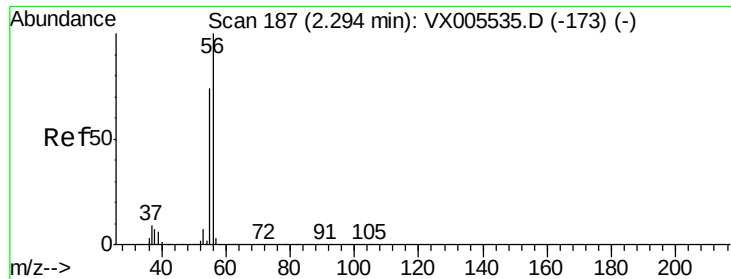
57 2.1 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.569 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX005585.D

Acq: 25 Oct 2018 13:23

Instrument :

MSVOA_X

ClientSampled :

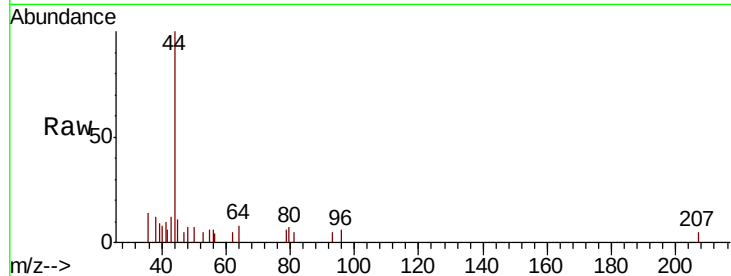
S37-0006

Tot Ion: 56 Resp: 190

Ion Ratio Lower Upper

56 100

55 38.9 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.28

150

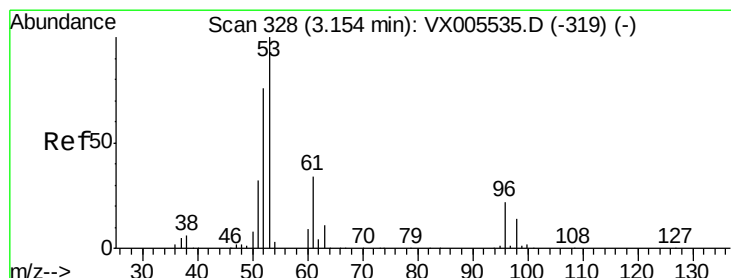
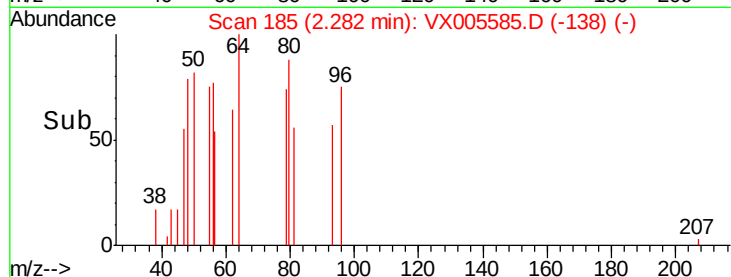
100

50

0

2.26 2.28 2.30 2.32

Time-->



#15

Acrylonitrile

Concen: 0.256 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX005585.D

Acq: 25 Oct 2018 13:23

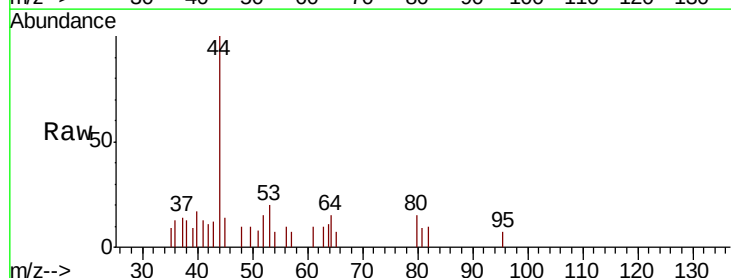
Tgt Ion: 53 Resp: 376

Ion Ratio Lower Upper

53 100

52 10.1 66.6 99.8#

51 50.0 28.4 42.6#



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

200

150

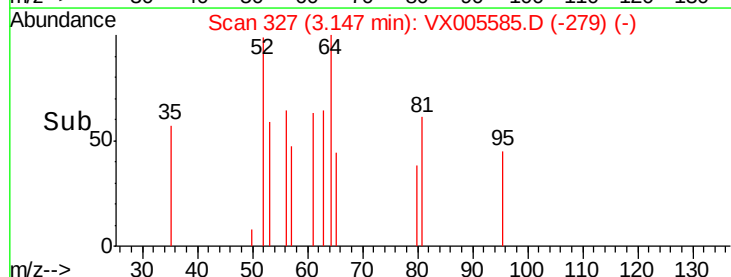
100

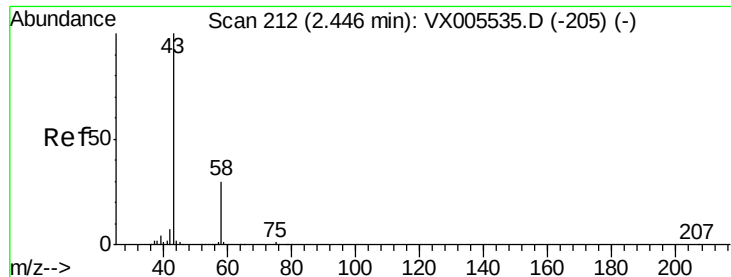
50

0

3.10 3.15 3.20

Time-->





#16

Acetone

Concen: 5.885 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005585.D

Acq: 25 Oct 2018 13:23

Instrument :

MSVOA_X

ClientSampleId :

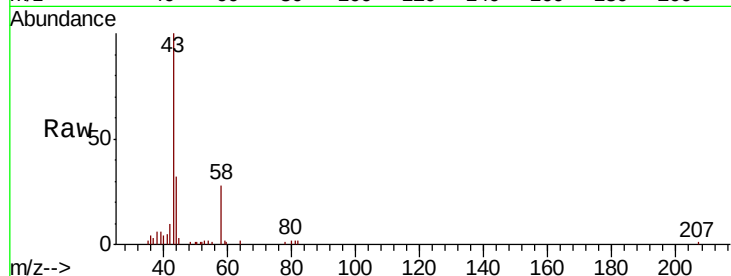
S37-0006

Tot Ion: 43 Resp: 7563

Ion Ratio Lower Upper

43 100

58 28.3 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

4000

3000

2000

1000

0

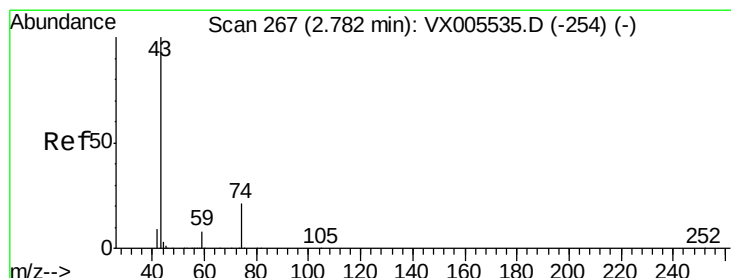
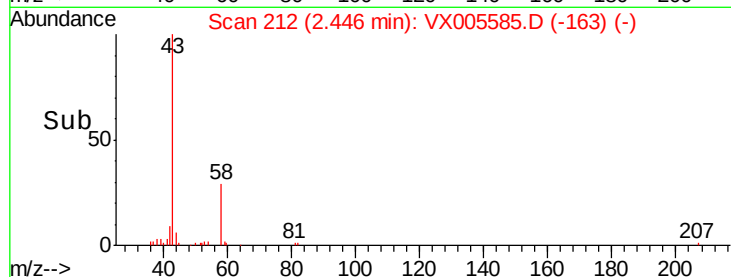
2.40

2.45

2.50

2.55

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005585.D

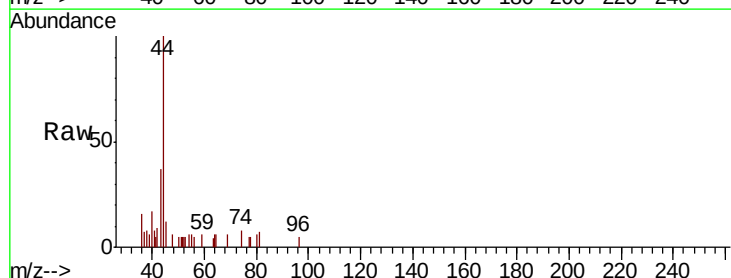
Acq: 25 Oct 2018 13:23

Tgt Ion: 43 Resp: 670

Ion Ratio Lower Upper

43 100

74 13.7 16.8 25.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

500

400

300

200

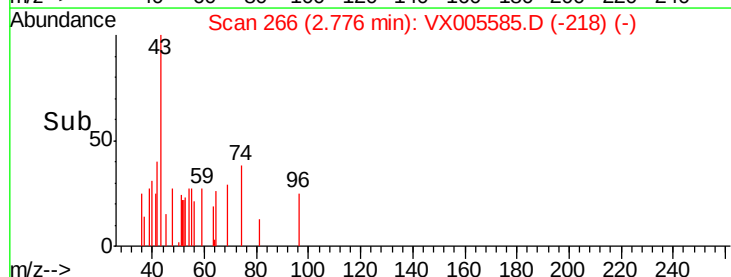
100

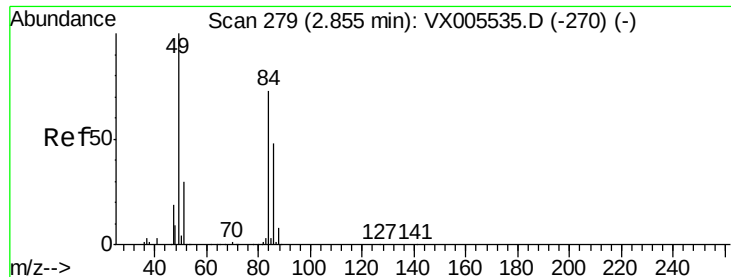
0

2.75

2.80

Time-->

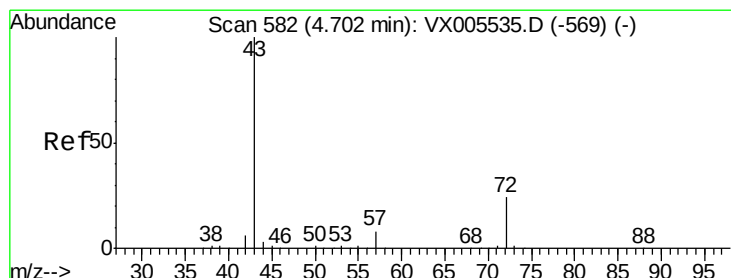
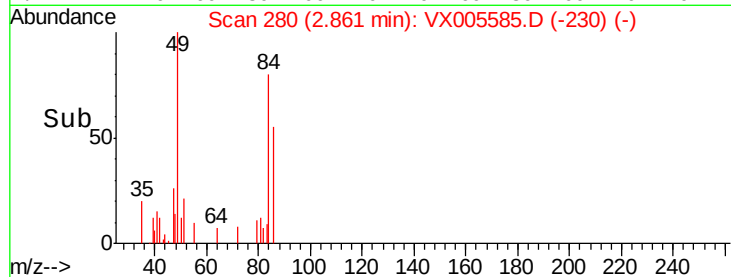
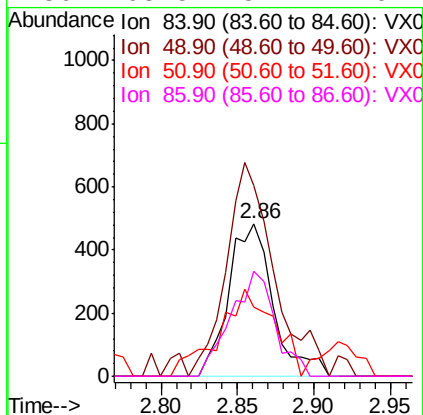
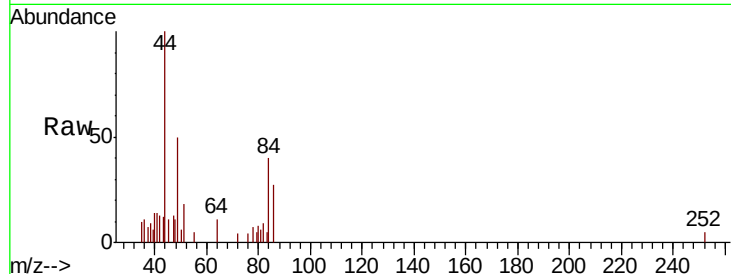




#20
Methylene Chloride
Concen: 0.454 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005585.D
Acq: 25 Oct 2018 13:23

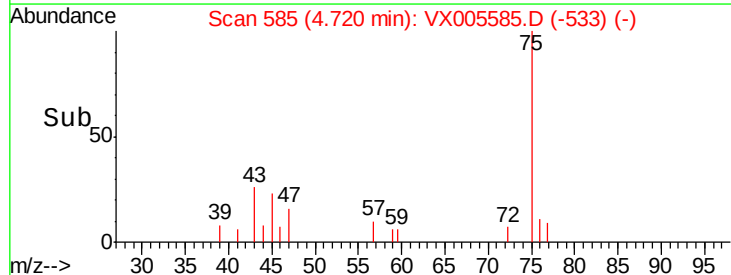
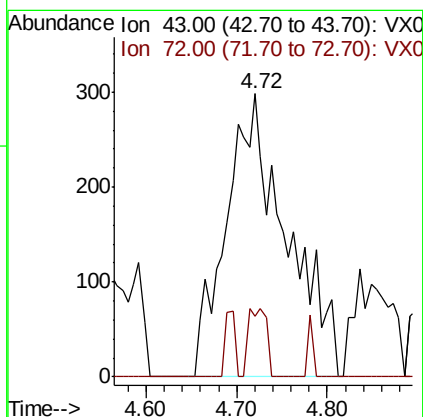
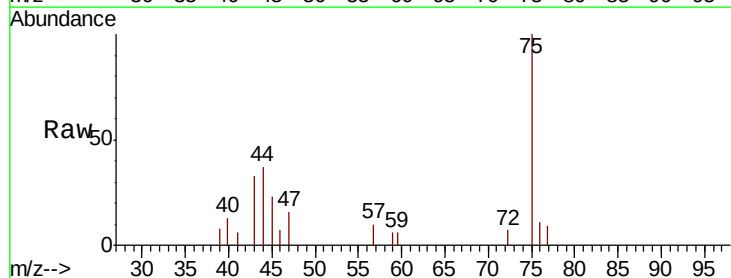
Instrument :
MSVOA_X
ClientSampled :
S37-0006

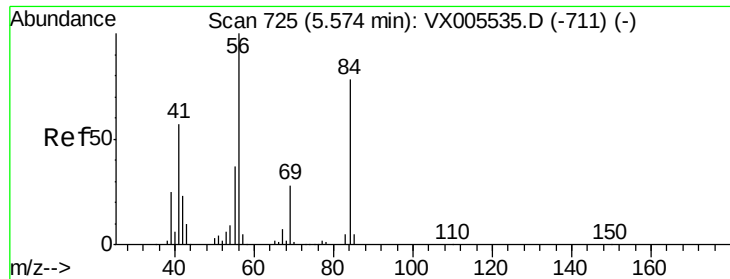
Tot Ion: 84 Resp: 977
Ion Ratio Lower Upper
84 100
49 124.8 109.5 164.3
51 31.9 33.3 49.9#
86 68.5 52.7 79.1



#25
2-Butanone
Concen: 0.707 ug/l
RT: 4.72 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX005585.D
Acq: 25 Oct 2018 13:23

Tgt Ion: 43 Resp: 1383
Ion Ratio Lower Upper
43 100
72 21.5 19.2 28.8

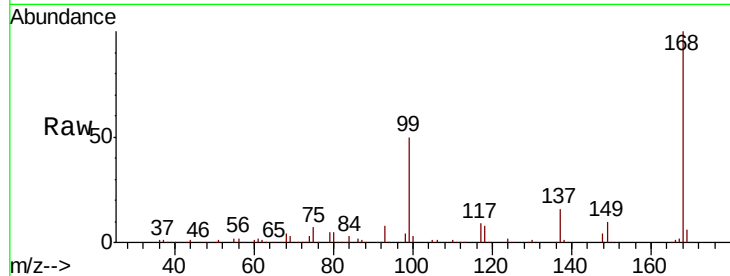




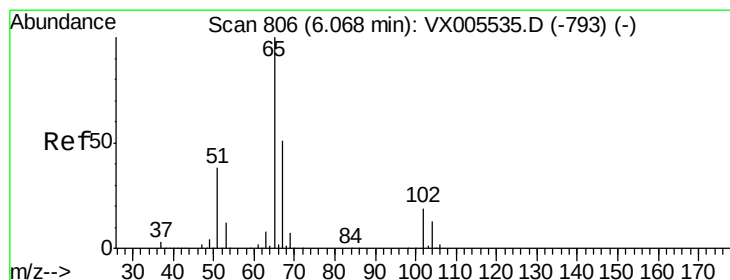
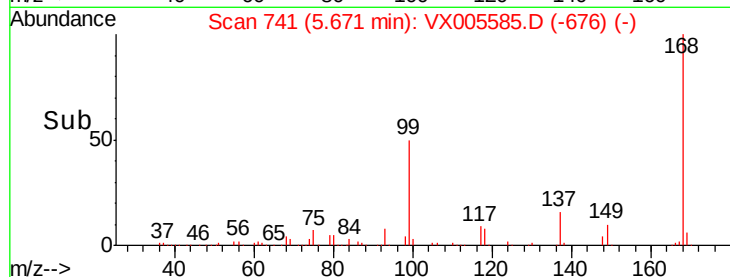
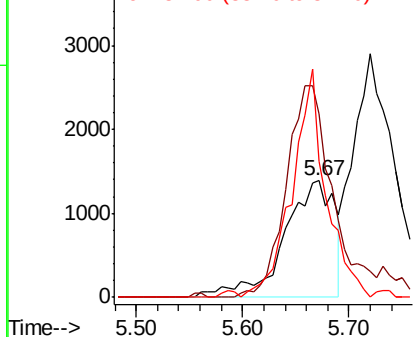
#31
Cyclohexane
Concen: 1.380 ug/l
RT: 5.67 min Scan# 741
Delta R.T. 0.10 min
Lab File: VX005585.D
Acq: 25 Oct 2018 13:23

Instrument :
MSVOA_X
ClientSampleId :
S37-0006

Tot Ion: 56 Resp: 4526
Ion Ratio Lower Upper
56 100
69 157.2 22.6 34.0#
84 116.4 62.7 94.1#

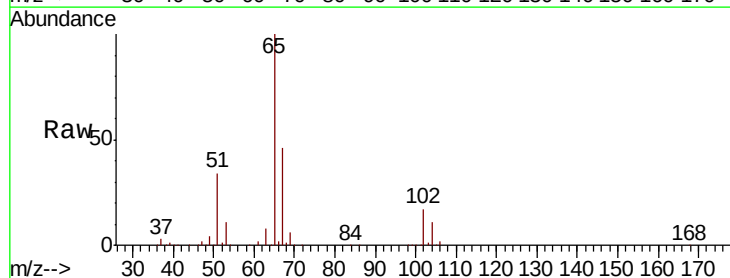


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

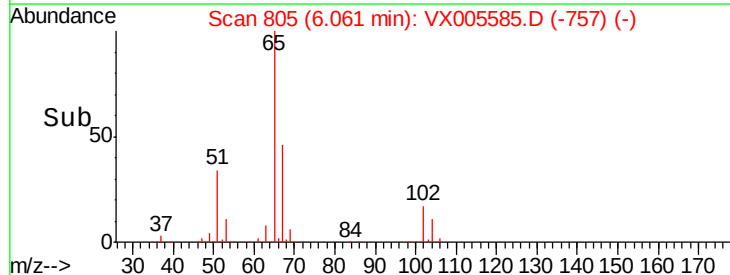
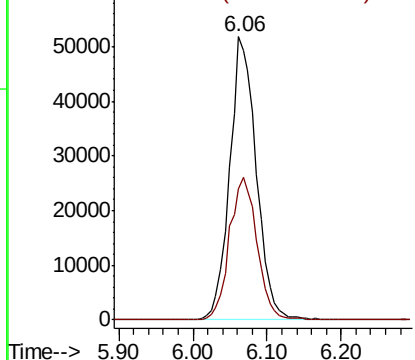


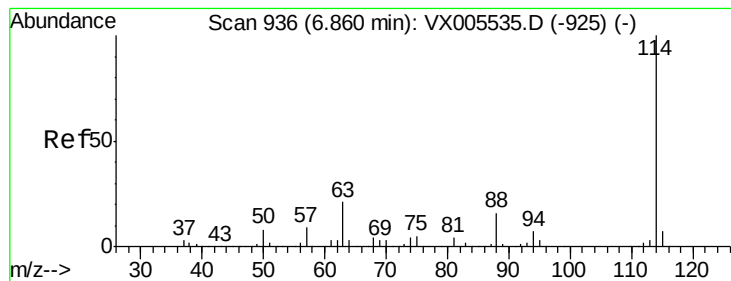
#33
1,2-Dichloroethane-d4
Concen: 53.386 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX005585.D
Acq: 25 Oct 2018 13:23

Tgt Ion: 65 Resp: 129832
Ion Ratio Lower Upper
65 100
67 52.3 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX005585.D

Acq: 25 Oct 2018 13:23

Instrument :

MSVOA_X

ClientSampleId :

S37-0006

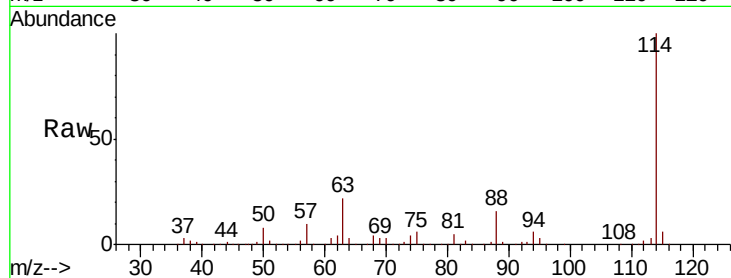
Tot Ion:114 Resp: 302610

Ion Ratio Lower Upper

114 100

63 21.7 0.0 42.8

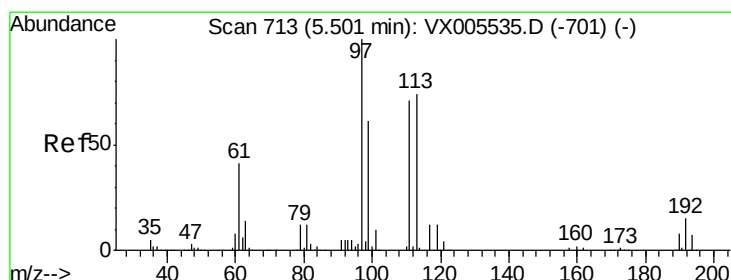
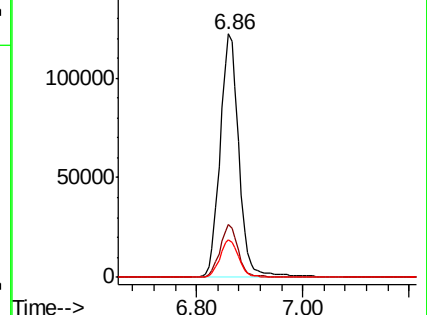
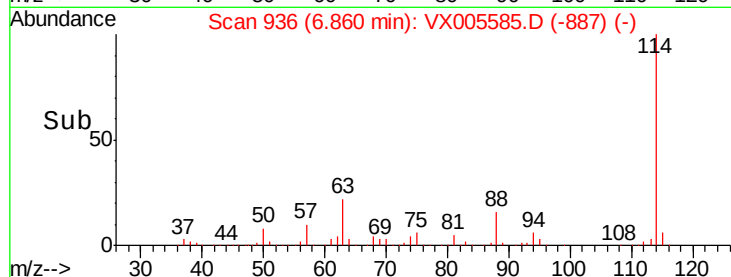
88 15.6 0.0 31.2



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



#35

Dibromofluoromethane

Concen: 50.550 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX005585.D

Acq: 25 Oct 2018 13:23

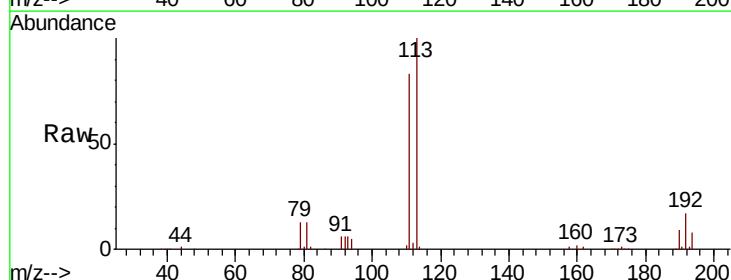
Tgt Ion:113 Resp: 103578

Ion Ratio Lower Upper

113 100

111 98.7 82.3 123.5

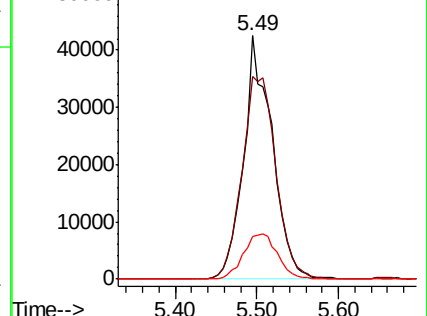
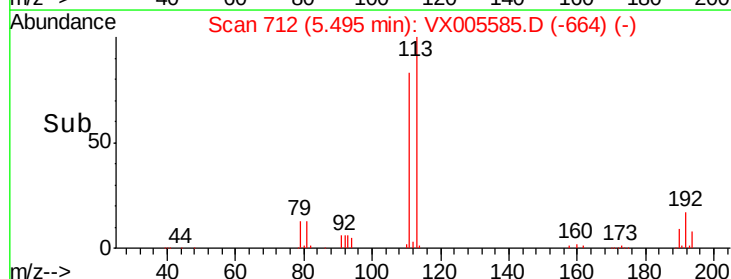
192 22.2 17.9 26.9

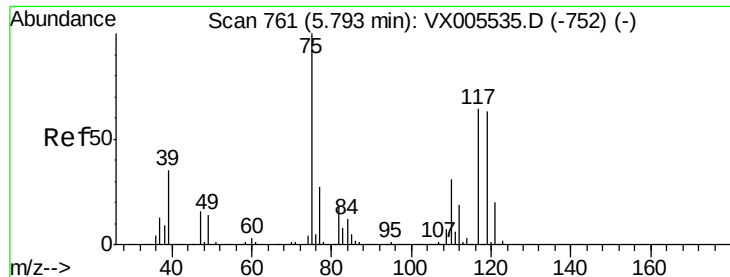


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

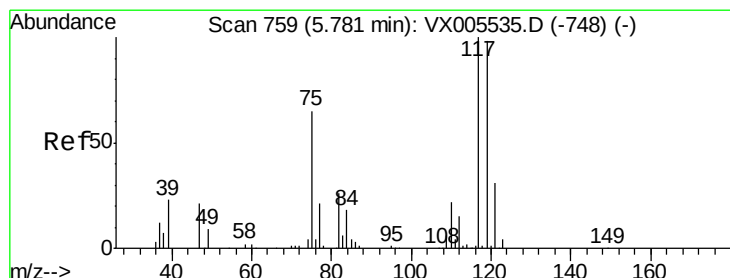
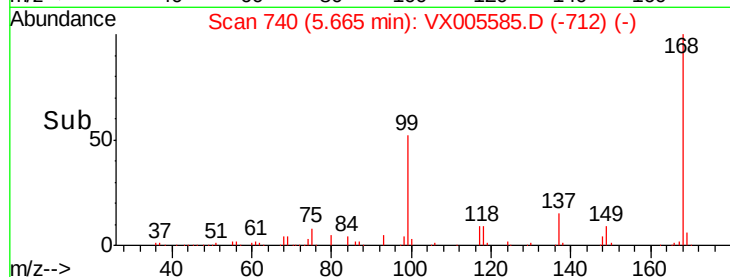
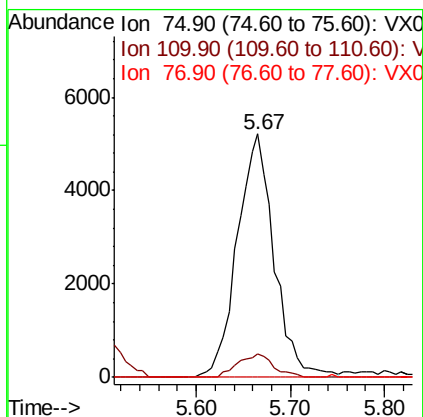
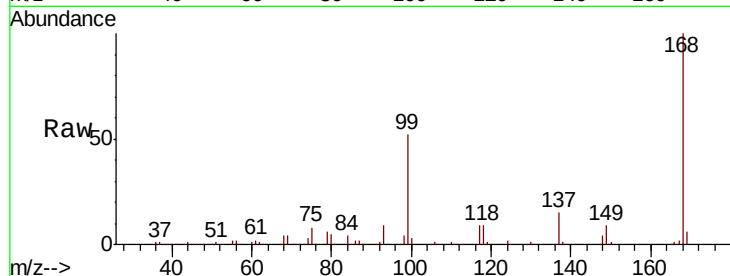




#36
 1,1-Dichloropropene
 Concen: 4.859 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005585.D
 Acq: 25 Oct 2018 13:23

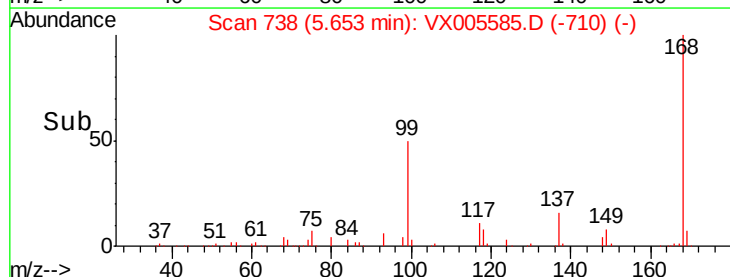
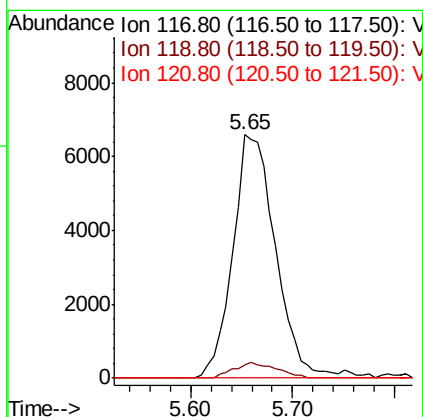
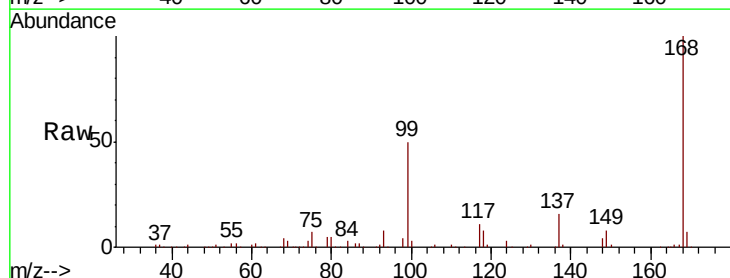
Instrument :
 MSVOA_X
 ClientSampleId :
 S37-0006

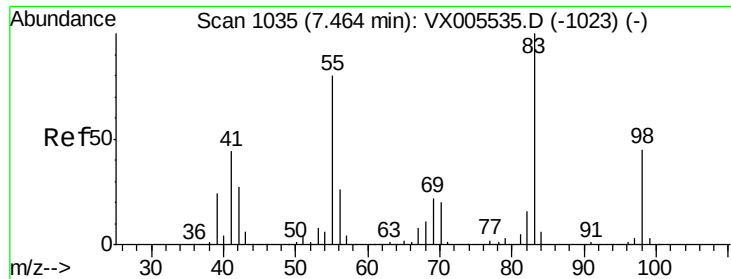
Tot Ion: 75 Resp: 14268
 Ion Ratio Lower Upper
 75 100
 110 9.4 17.4 52.2#
 77 0.0 25.8 38.6#



#38
 Carbon Tetrachloride
 Concen: 6.175 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.13 min
 Lab File: VX005585.D
 Acq: 25 Oct 2018 13:23

Tgt Ion: 117 Resp: 19099
 Ion Ratio Lower Upper
 117 100
 119 5.6 78.1 117.1#
 121 0.0 24.6 36.8#

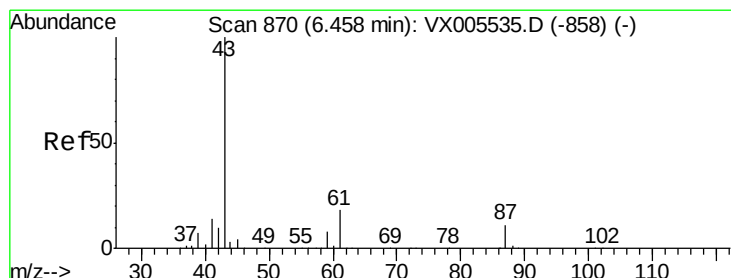
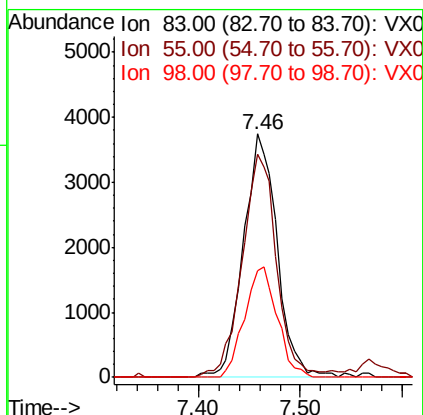
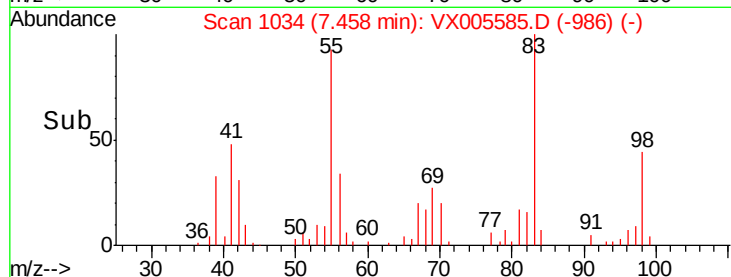
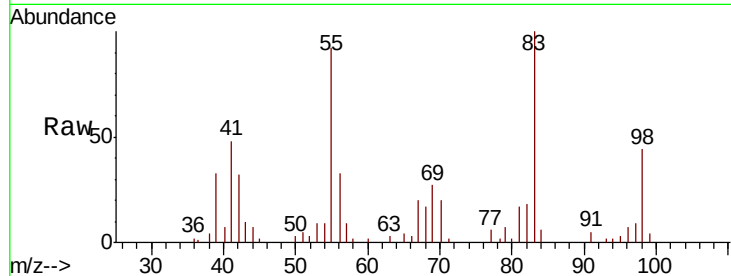




#39
Methylvlcyclohexane
Concen: 2.652 ug/l
RT: 7.46 min Scan# 1034
Delta R.T. -0.01 min
Lab File: VX005585.D
Acq: 25 Oct 2018 13:23

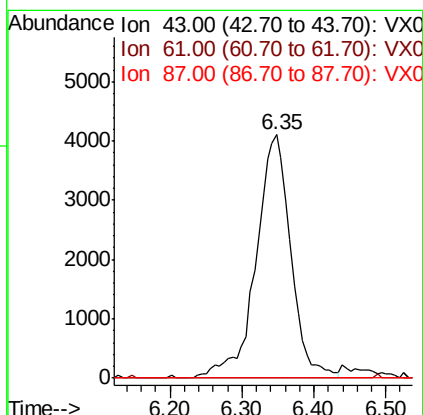
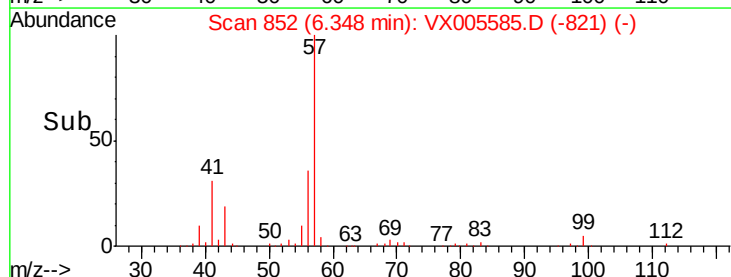
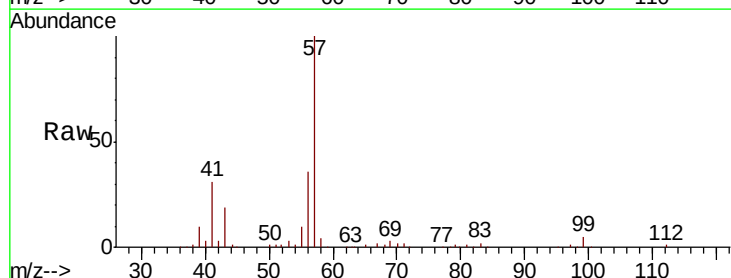
Instrument :
MSVOA_X
ClientSampleId :
S37-0006

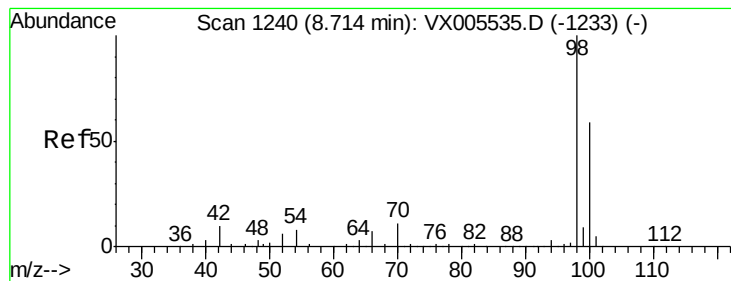
Tot Ion: 83 Resp: 8601
Ion Ratio Lower Upper
83 100
55 91.7 63.7 95.5
98 43.8 36.2 54.2



#43
Isopropyl Acetate
Concen: 2.451 ug/l
RT: 6.35 min Scan# 852
Delta R.T. -0.11 min
Lab File: VX005585.D
Acq: 25 Oct 2018 13:23

Tgt Ion: 43 Resp: 13766
Ion Ratio Lower Upper
43 100
61 0.0 14.6 22.0#
87 0.0 9.6 14.4#





#50

Toluene-d8

Concen: 50.126 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005585.D

Acq: 25 Oct 2018 13:23

Instrument :

MSVOA_X

ClientSampled :

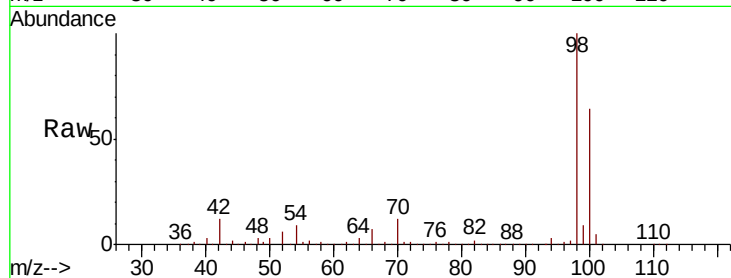
S37-0006

Tot Ion: 98 Resp: 369058

Ion Ratio Lower Upper

98 100

100 63.1 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

250000

200000

150000

100000

50000

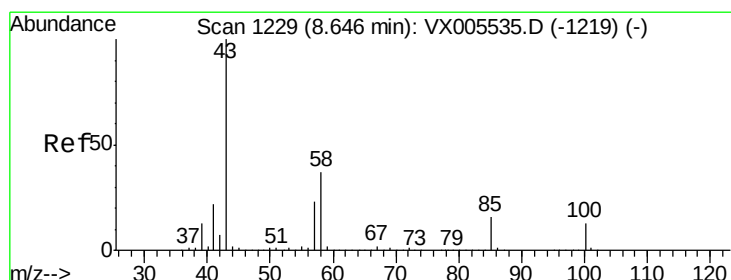
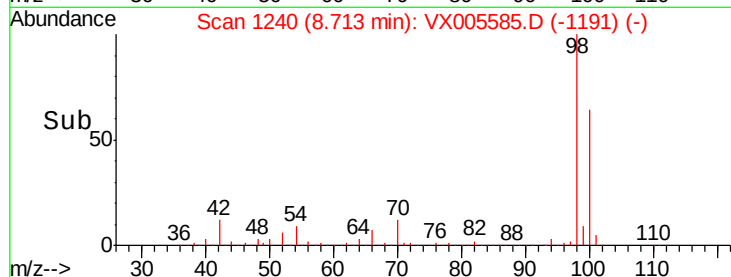
0

8.60

8.80

9.00

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.233 ug/l

RT: 8.67 min Scan# 1233

Delta R.T. 0.02 min

Lab File: VX005585.D

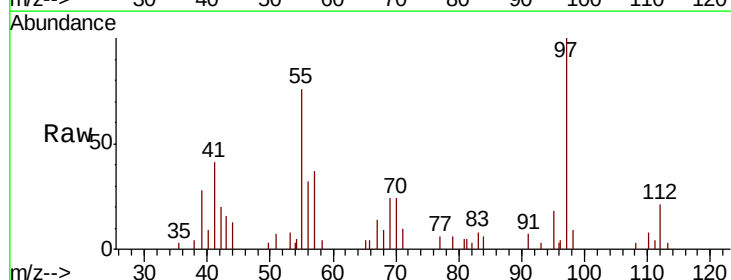
Acq: 25 Oct 2018 13:23

Tgt Ion: 43 Resp: 879

Ion Ratio Lower Upper

43 100

58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

1500

1000

500

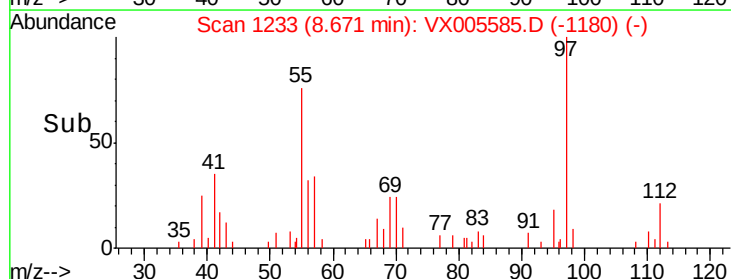
0

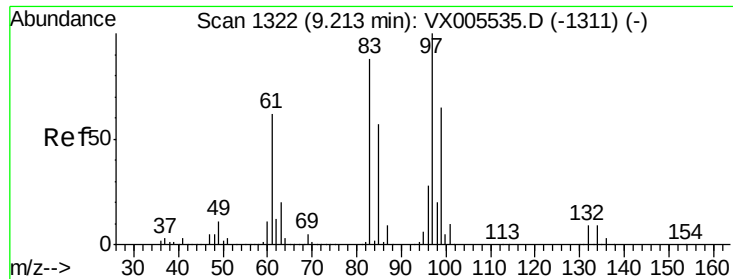
8.60

8.65

8.70

Time-->

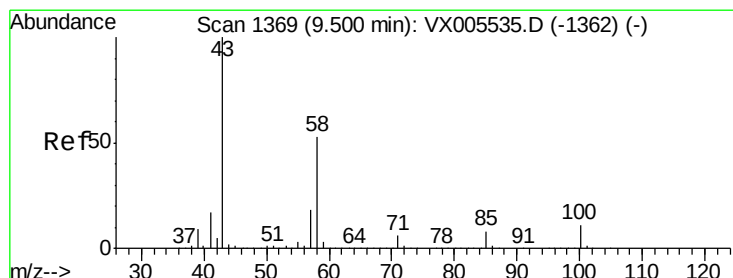
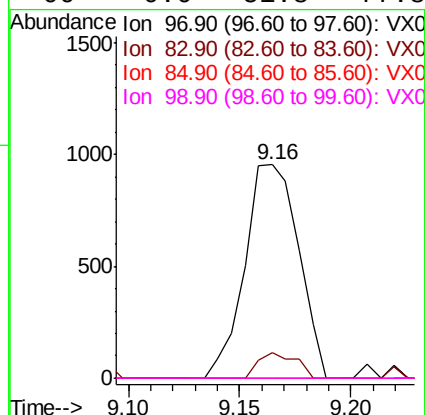
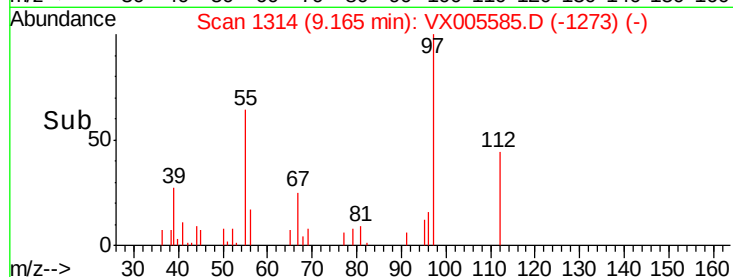
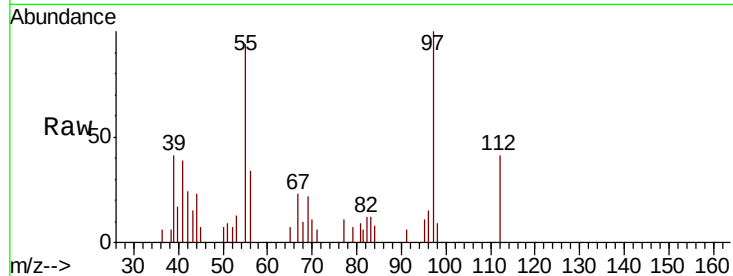




#55
 1,1,2-Trichloroethane
 Concen: 0.744 ug/l
 RT: 9.16 min Scan# 1314
 Delta R.T. -0.05 min
 Lab File: VX005585.D
 Acq: 25 Oct 2018 13:23

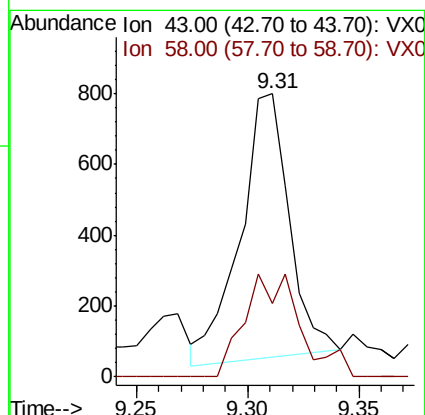
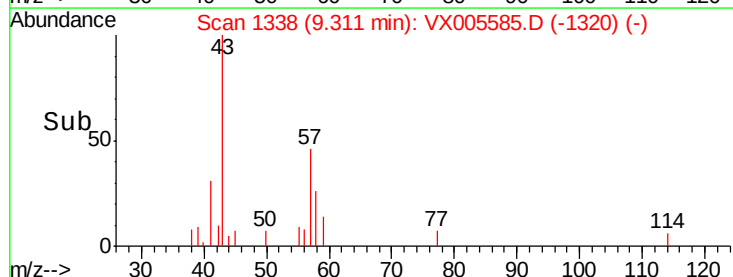
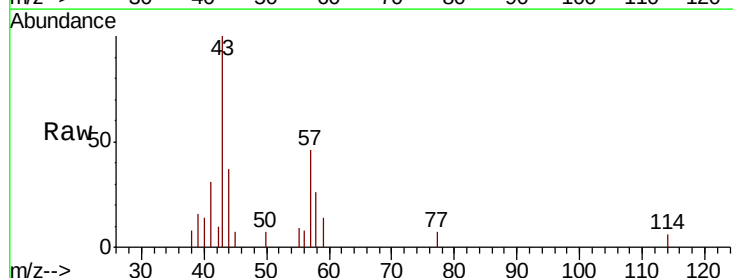
Instrument :
 MSVOA_X
 ClientSampled :
 S37-0006

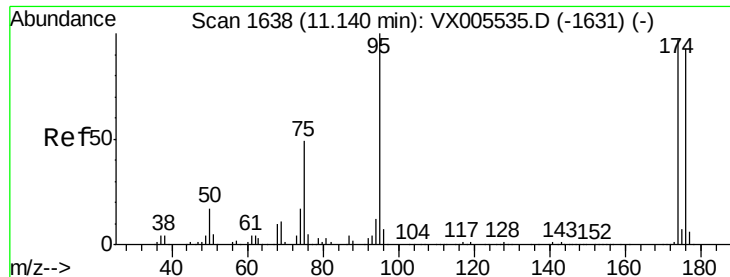
Tot Ion: 97 Resp: 1604
 Ion Ratio Lower Upper
 97 100
 83 12.0 70.7 106.1#
 85 0.0 45.8 68.6#
 99 0.0 51.8 77.8#



#59
 2-Hexanone
 Concen: 0.386 ug/l
 RT: 9.31 min Scan# 1338
 Delta R.T. -0.19 min
 Lab File: VX005585.D
 Acq: 25 Oct 2018 13:23

Tgt Ion: 43 Resp: 1149
 Ion Ratio Lower Upper
 43 100
 58 43.9 25.9 77.8





#62

4-Bromofluorobenzene

Concen: 44.087 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005585.D

Acq: 25 Oct 2018 13:23

Instrument :

MSVOA_X

ClientSampleId :

S37-0006

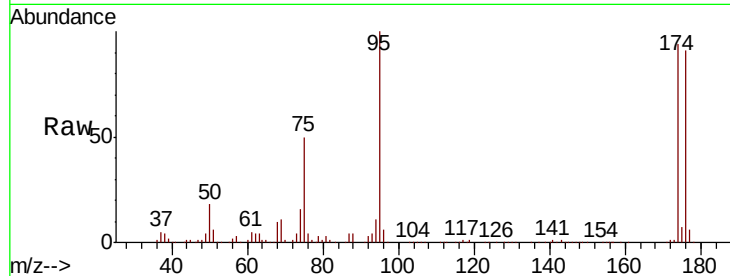
Tot Ion: 95 Resp: 122581

Ion Ratio Lower Upper

95 100

174 92.0 0.0 184.4

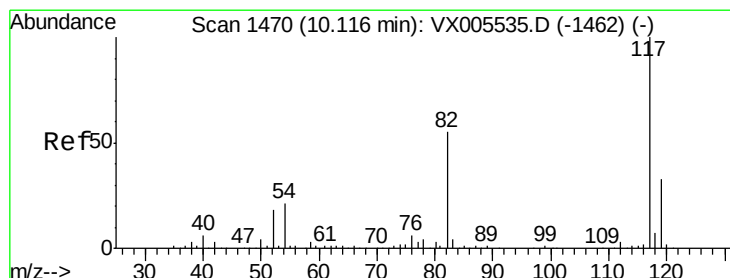
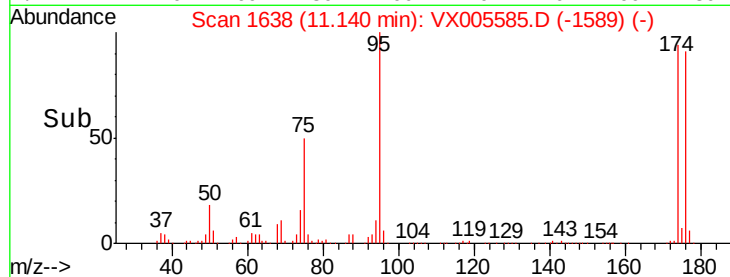
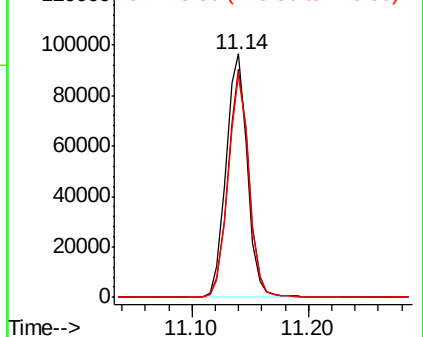
176 89.0 0.0 177.4



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: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005585.D

Acq: 25 Oct 2018 13:23

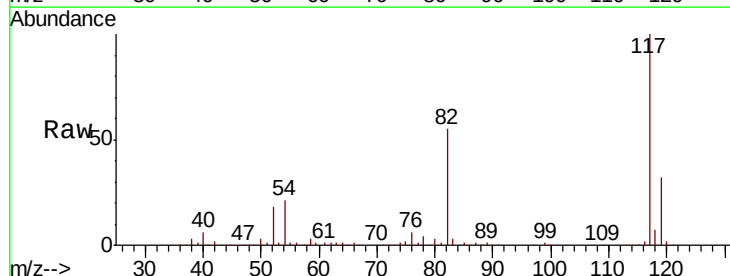
Tgt Ion: 117 Resp: 274102

Ion Ratio Lower Upper

117 100

82 54.9 44.1 66.1

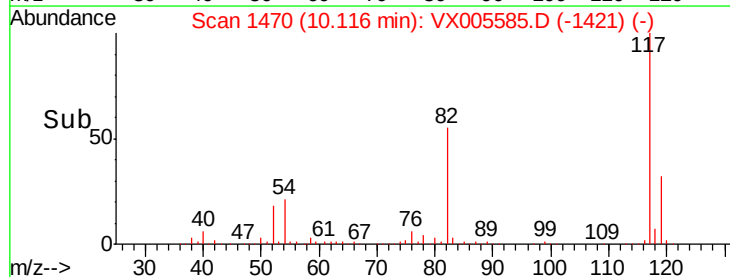
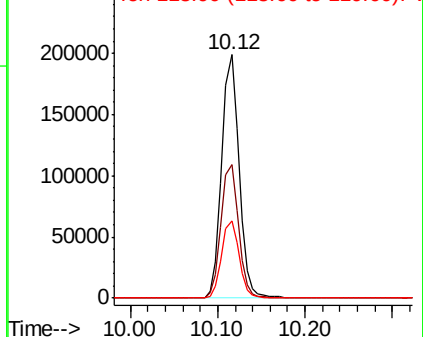
119 31.7 26.2 39.2

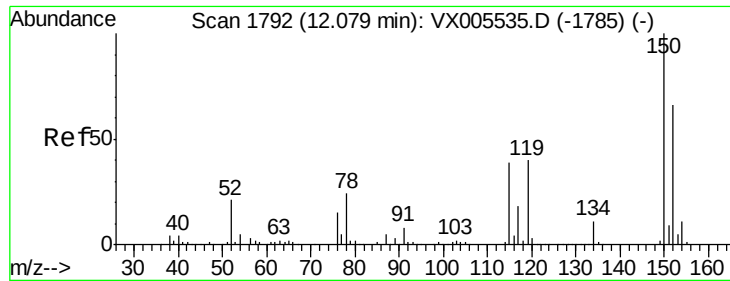


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



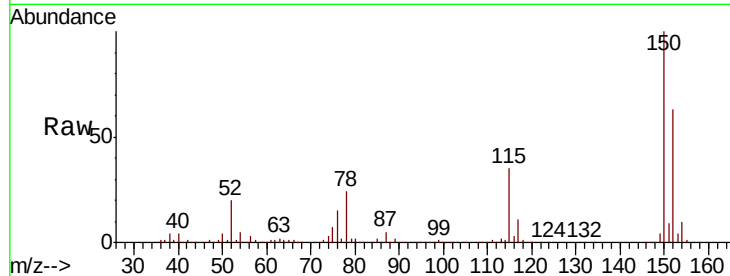


#72

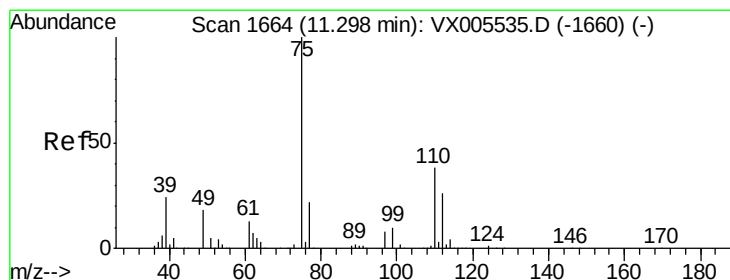
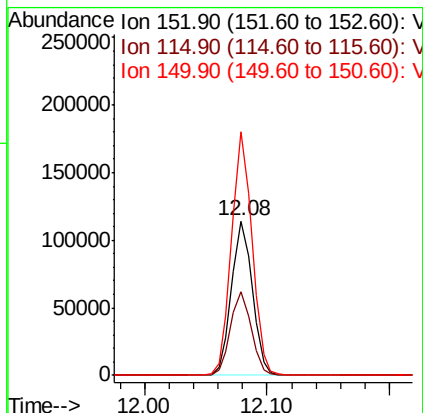
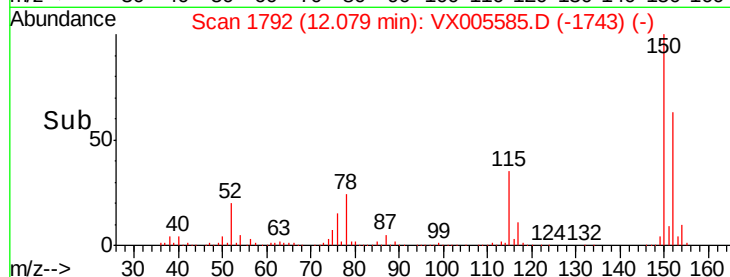
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005585.D
Acq: 25 Oct 2018 13:23

Instrument :
MSVOA_X
ClientSampleId :
S37-0006

Tot Ion:152 Resp: 133978
Ion Ratio Lower Upper
152 100
115 54.5 39.4 118.1
150 155.4 0.0 346.4



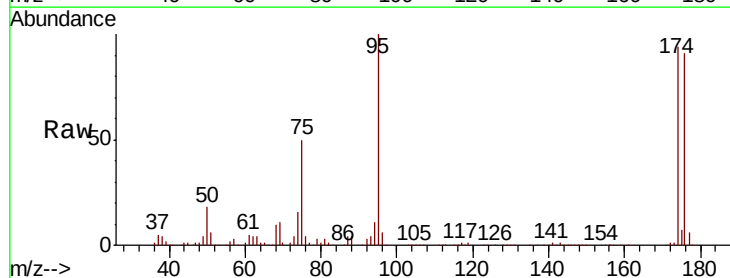
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



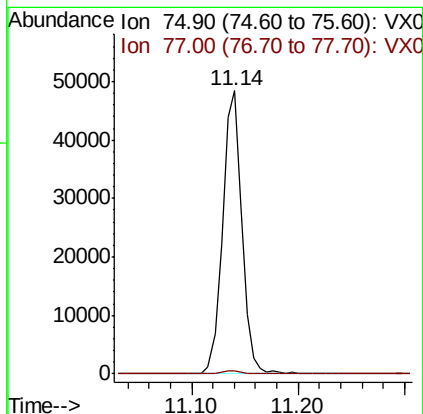
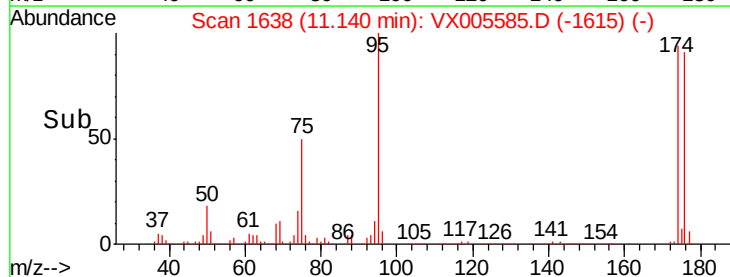
#76

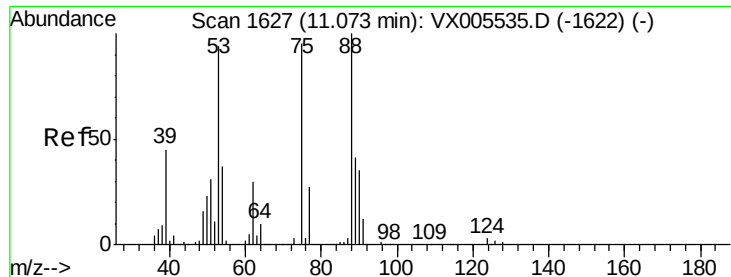
1,2,3-Trichloropropane
Concen: 21.557 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX005585.D
Acq: 25 Oct 2018 13:23

Tgt Ion: 75 Resp: 61193
Ion Ratio Lower Upper
75 100
77 1.2 20.5 61.6#



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: 70.438 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005585.D

Acq: 25 Oct 2018 13:23

Instrument :

MSVOA_X

ClientSampleId :

S37-0006

Tot Ion: 75 Resp: 61193

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.2#

89 0.0 39.8 59.8#

