

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX032818\
 Data File : VX000497.D
 Acq On : 28 Mar 2018 18:50
 Operator : JC/MD
 Sample : J1756-14 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OR-01-032718-B

Quant Time: Mar 29 04:12:20 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 21 04:52:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	94532	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	175085	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	172018	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	87913	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	69897	56.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.28%	
35) Dibromofluoromethane	5.51	113	55895	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	
50) Toluene-d8	8.73	98	220912	48.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.70%	
62) 4-Bromofluorobenzene	11.15	95	75140	40.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.58%	

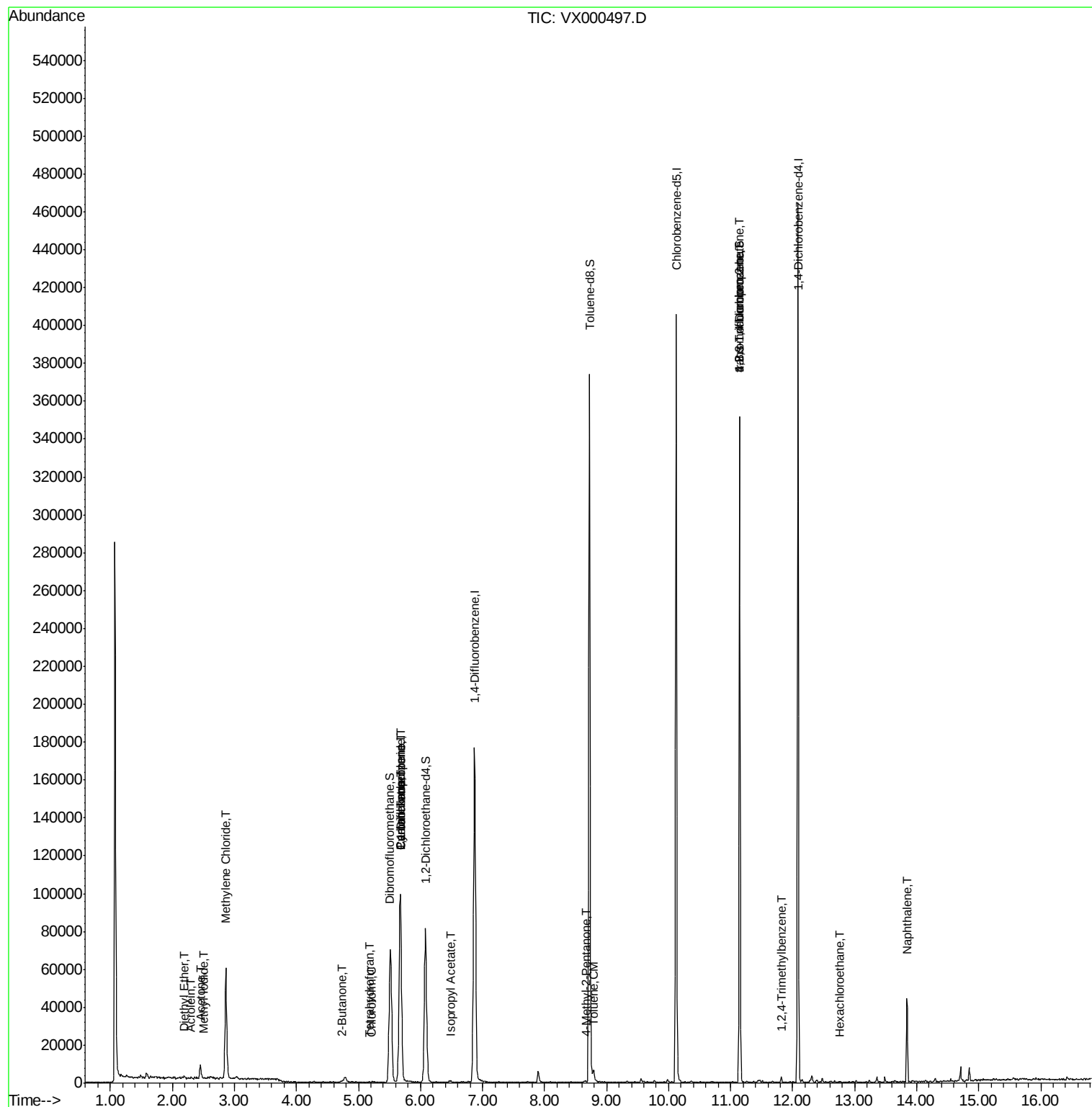
Target Compounds						Qvalue
6) Chloroethane	1.73	64	120	Below Cal	#	44
8) Diethyl Ether	2.20	74	330	0.44	ug/l #	36
10) Methyl Iodide	2.51	142	19	4.29	ug/l #	37
13) Acrolein	2.30	56	24	14.74	ug/l #	64
14) Allyl chloride	2.74	41	173	Below Cal	#	49
16) Acetone	2.45	43	8504	8.28	ug/l	99
20) Methylene Chloride	2.86	84	25123	21.19	ug/l	95
25) 2-Butanone	4.73	43	1095	0.95	ug/l	94
29) Tetrahydrofuran	5.18	42	393	0.55	ug/l #	40
30) Chloroform	5.21	83	413	0.22	ug/l	91
31) Cyclohexane	5.67	56	2452	1.57	ug/l #	58
36) 1,1-Dichloropropene	5.67	75	7592	4.63	ug/l #	50
38) Carbon Tetrachloride	5.68	117	9511	5.53	ug/l #	15
43) Isopropyl Acetate	6.49	43	1133	0.34	ug/l #	66
51) 4-Methyl-2-Pentanone	8.66	43	622	0.24	ug/l #	56
52) Toluene	8.79	92	1469	0.44	ug/l	91
74) N-amyl acetate	6.49	43	1133	Below Cal	#	66
76) 1,2,3-Trichloropropane	11.15	75	44205	23.40	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.15	75	44205	75.75	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.82	105	1194	0.23	ug/l	93
90) Hexachloroethane	12.77	117	300	0.35	ug/l #	12
95) Naphthalene	13.84	128	25965	3.61	ug/l	100

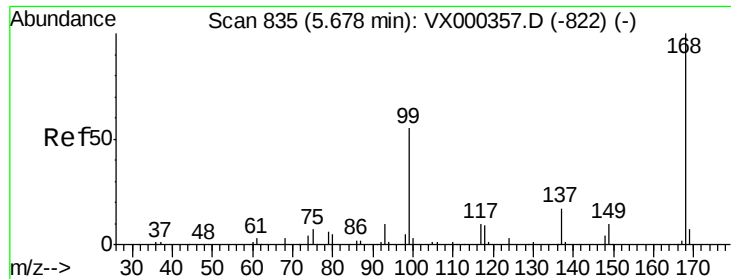
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 21 04:52:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000497.D

Acq: 28 Mar 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

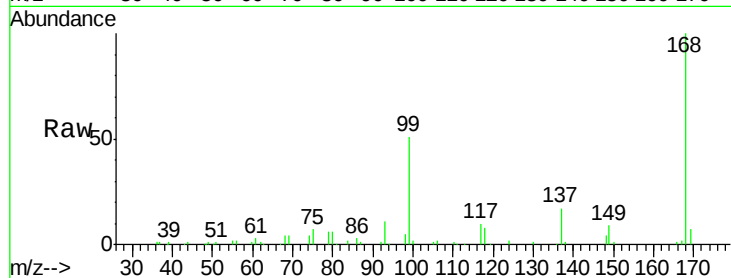
OR-01-032718-B

Tgt Ion:168 Resp: 94532

Ion Ratio Lower Upper

168 100

99 51.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.68

40000

30000

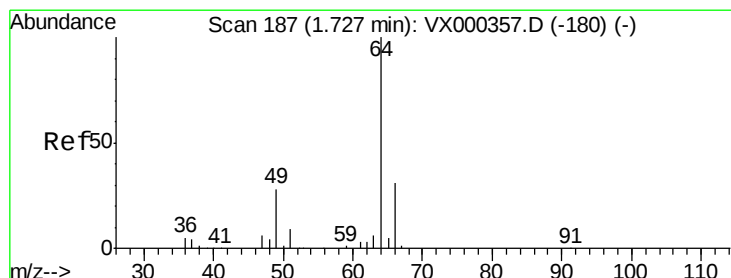
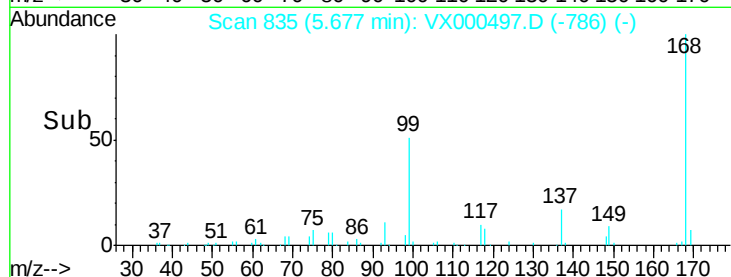
20000

10000

0

Time-->

5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX000497.D

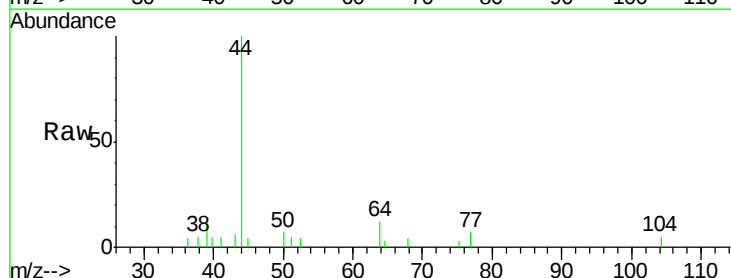
Acq: 28 Mar 2018 18:50

Tgt Ion: 64 Resp: 120

Ion Ratio Lower Upper

64 100

66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

300

250

200

150

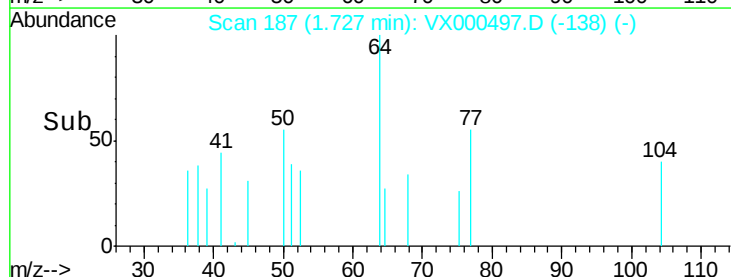
100

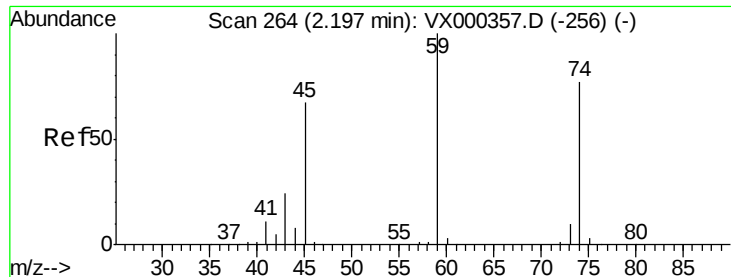
50

0

Time-->

1.71 1.72 1.73





#8

Diethyl Ether

Concen: 0.44 ug/l

RT: 2.20 min Scan# 264

Delta R.T. -0.00 min

Lab File: VX000497.D

Acq: 28 Mar 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

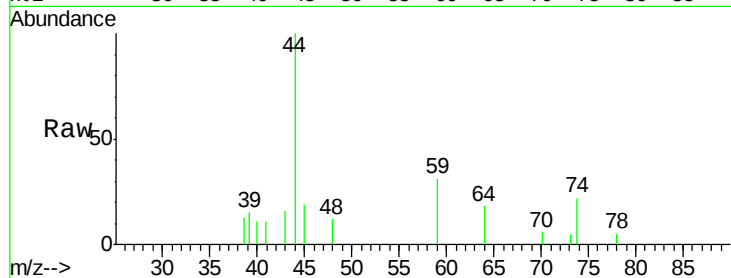
OR-01-032718-B

Tgt Ion: 74 Resp: 330

Ion Ratio Lower Upper

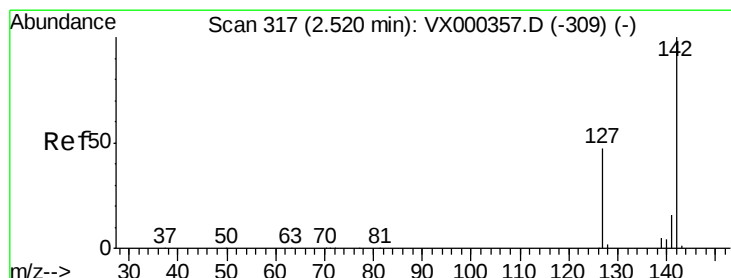
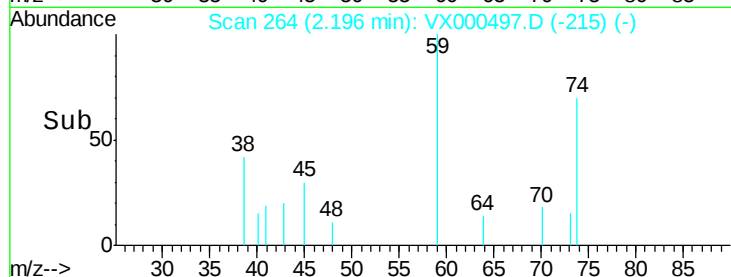
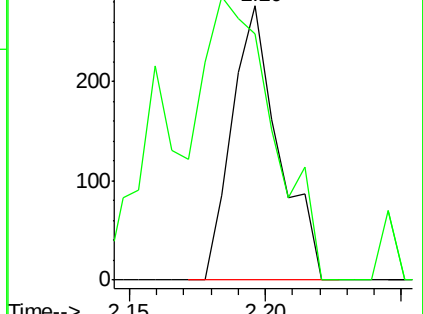
74 100

45 150.9 45.1 135.3#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 4.29 ug/l

RT: 2.51 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX000497.D

Acq: 28 Mar 2018 18:50

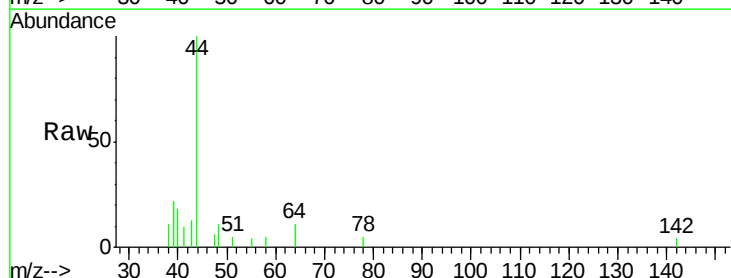
Tgt Ion: 142 Resp: 19

Ion Ratio Lower Upper

142 100

127 0.0 39.2 58.8#

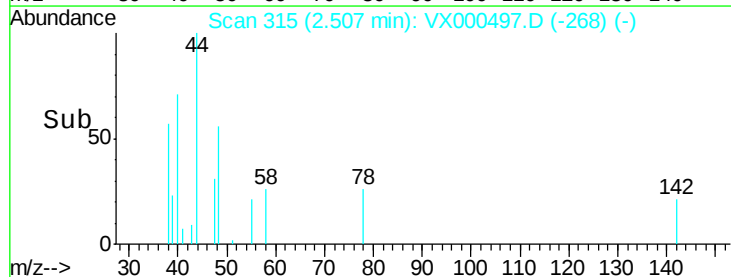
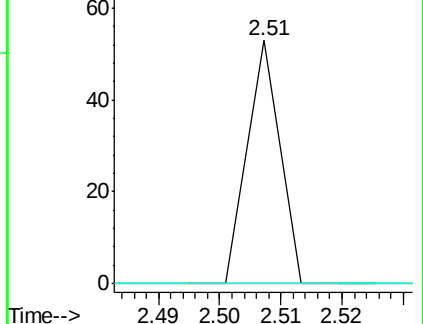
141 0.0 11.7 17.5#

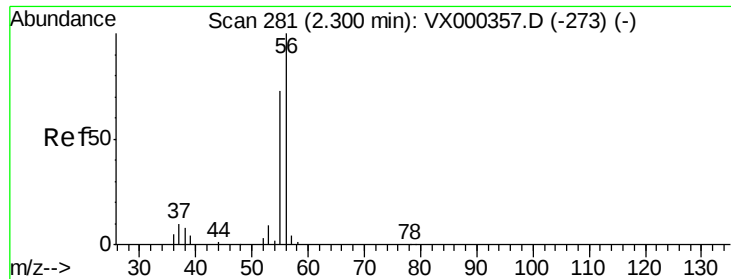


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 14.74 ug/l

RT: 2.30 min Scan# 281

Delta R.T. -0.00 min

Lab File: VX000497.D

Acq: 28 Mar 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

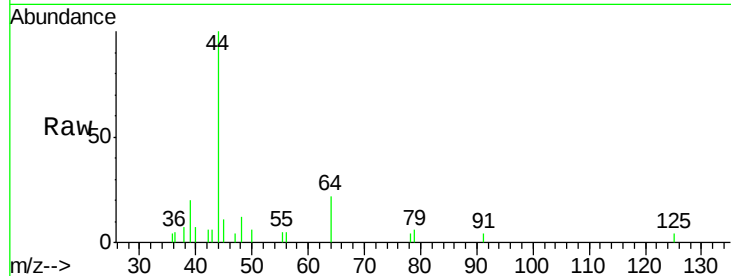
OR-01-032718-B

Tgt Ion: 56 Resp: 24

Ion Ratio Lower Upper

56 100

55 104.2 58.8 88.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

150

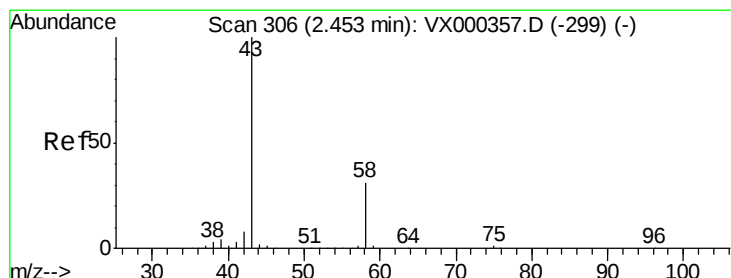
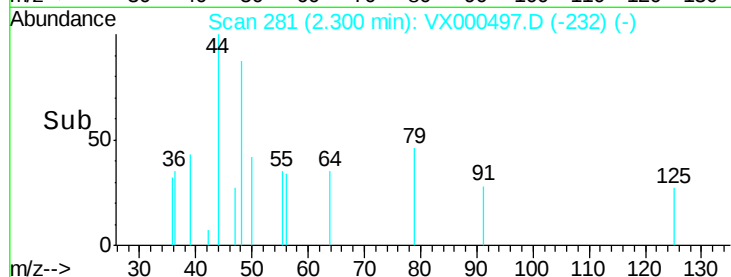
100

50

0

2.28 2.29 2.30 2.31 2.32

Time-->



#16

Acetone

Concen: 8.28 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000497.D

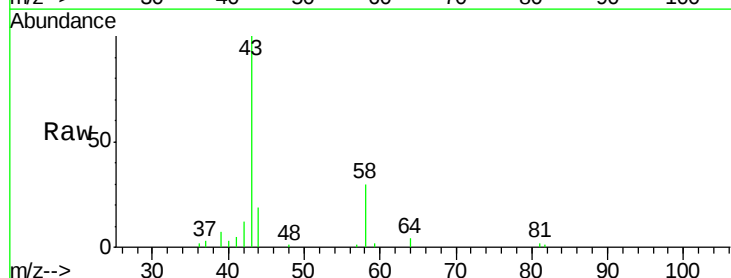
Acq: 28 Mar 2018 18:50

Tgt Ion: 43 Resp: 8504

Ion Ratio Lower Upper

43 100

58 30.5 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

6000

5000

4000

3000

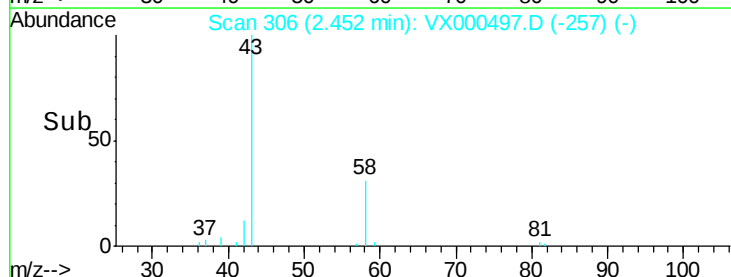
2000

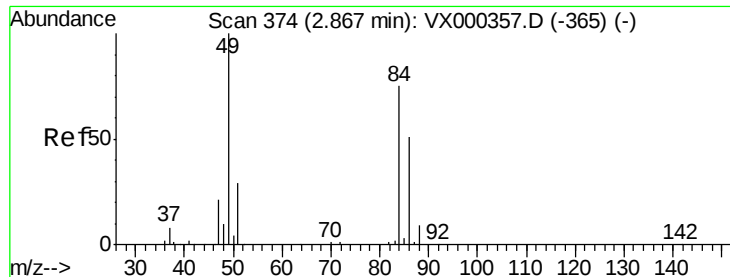
1000

0

2.40 2.45 2.50 2.55

Time-->

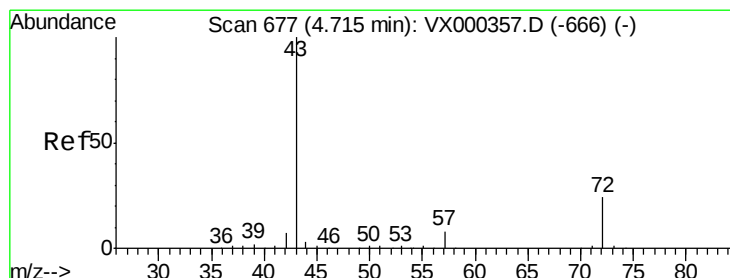
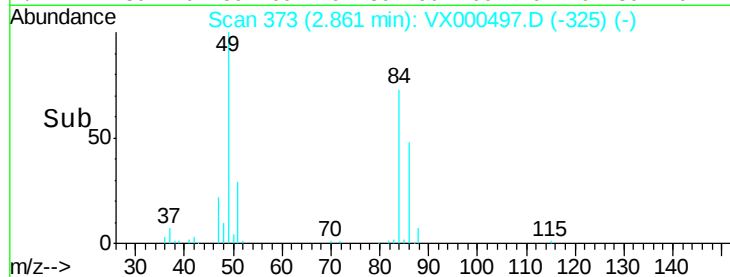
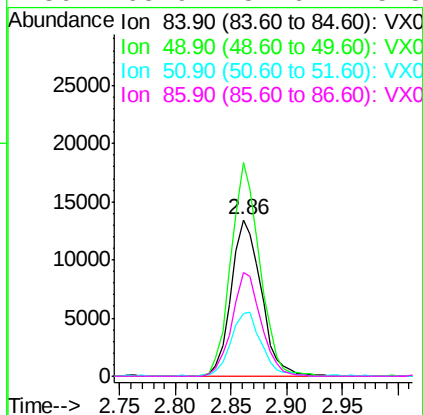
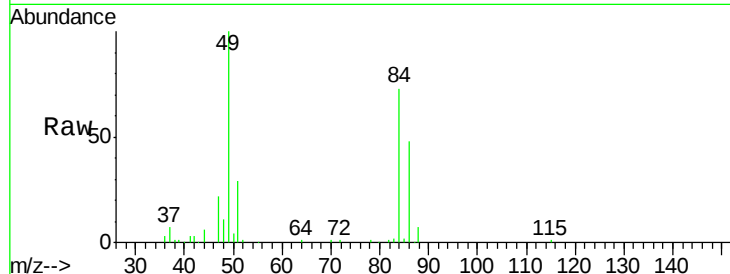




#20
Methylene Chloride
Concen: 21.19 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.01 min
Lab File: VX000497.D
Acq: 28 Mar 2018 18:50

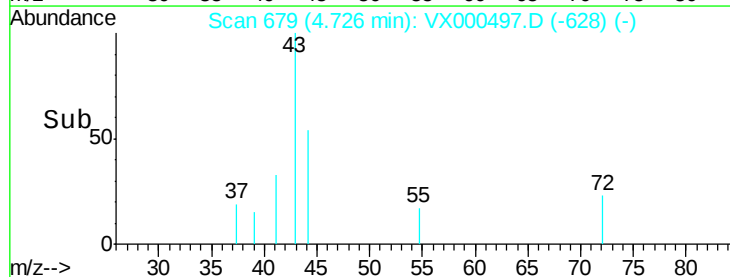
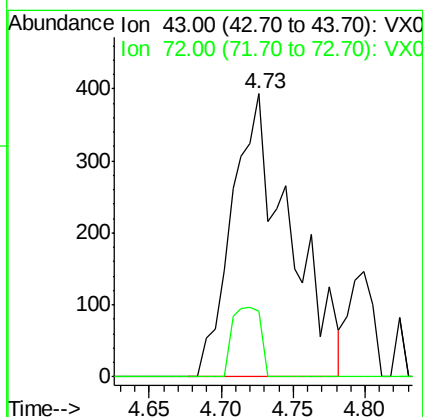
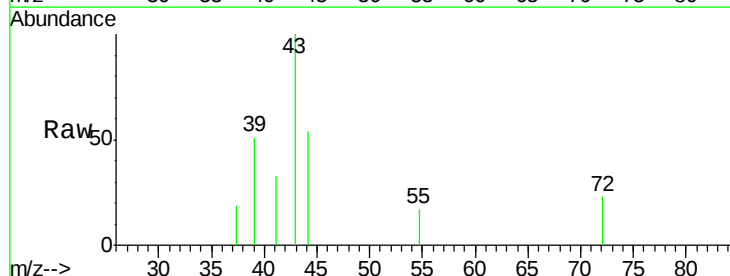
Instrument :
MSVOA_X
ClientSampleId :
OR-01-032718-B

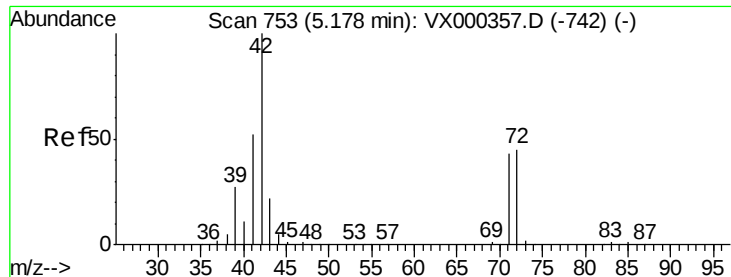
Tgt Ion: 84 Resp: 25123
Ion Ratio Lower Upper
84 100
49 136.5 100.6 151.0
51 39.8 31.6 47.4
86 65.9 52.6 78.8



#25
2-Butanone
Concen: 0.95 ug/l
RT: 4.73 min Scan# 679
Delta R.T. 0.01 min
Lab File: VX000497.D
Acq: 28 Mar 2018 18:50

Tgt Ion: 43 Resp: 1095
Ion Ratio Lower Upper
43 100
72 23.4 21.0 31.6

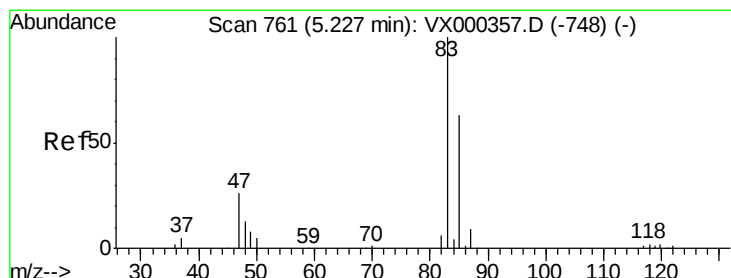
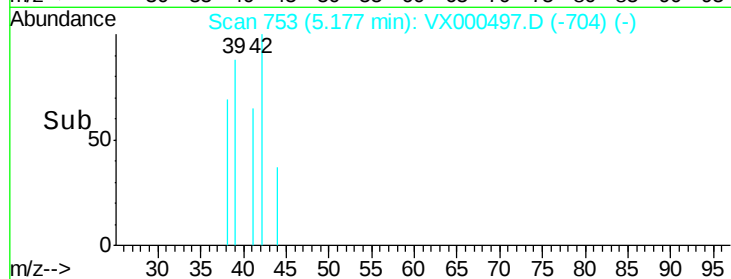
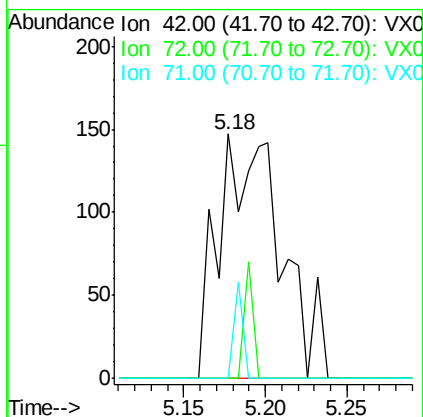
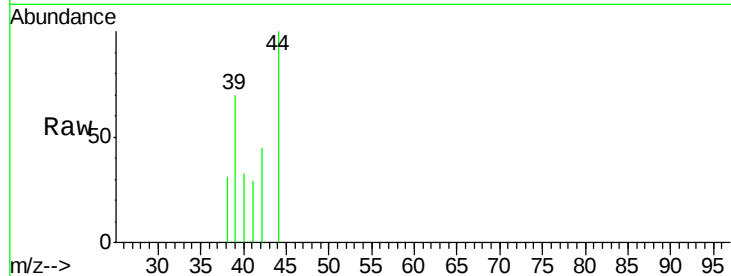




#29
Tetrahydrofuran
Concen: 0.55 ug/l
RT: 5.18 min Scan# 753
Delta R.T. -0.00 min
Lab File: VX000497.D
Acq: 28 Mar 2018 18:50

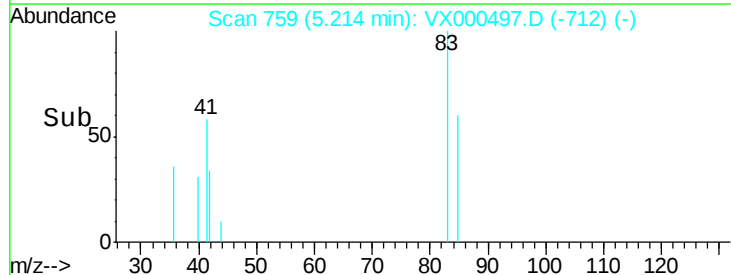
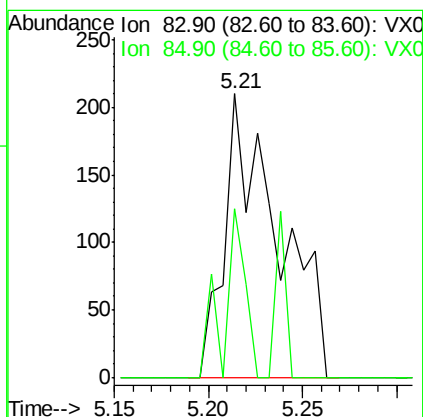
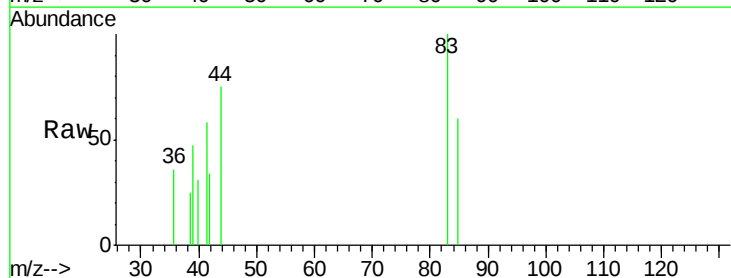
Instrument :
MSVOA_X
ClientSampleId :
OR-01-032718-B

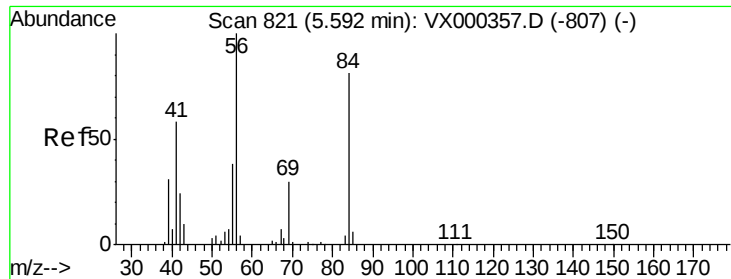
Tgt Ion: 42 Resp: 393
Ion Ratio Lower Upper
42 100
72 6.6 37.9 56.9#
71 5.3 34.4 51.6#



#30
Chloroform
Concen: 0.22 ug/l
RT: 5.21 min Scan# 759
Delta R.T. -0.01 min
Lab File: VX000497.D
Acq: 28 Mar 2018 18:50

Tgt Ion: 83 Resp: 413
Ion Ratio Lower Upper
83 100
85 59.5 53.3 79.9

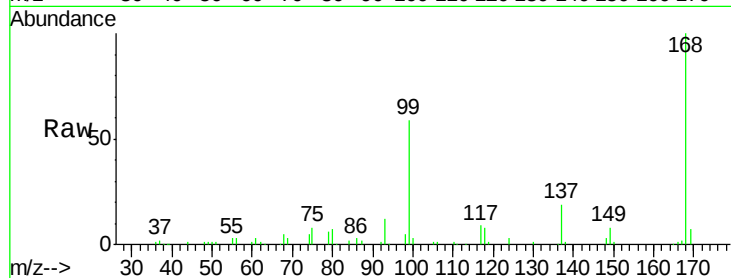




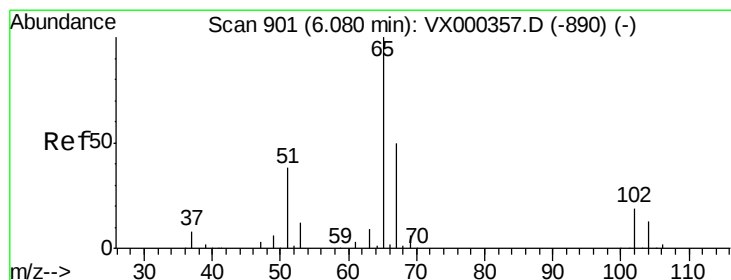
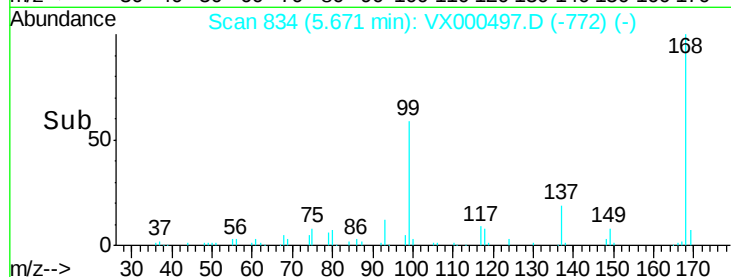
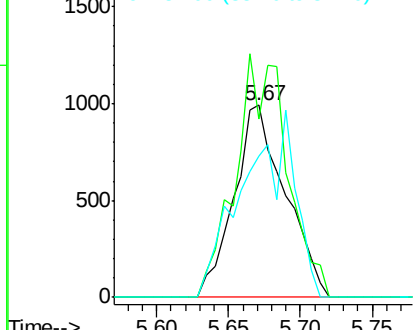
#31
Cyclohexane
Concen: 1.57 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.08 min
Lab File: VX000497.D
Acq: 28 Mar 2018 18:50

Instrument :
MSVOA_X
ClientSampleId :
OR-01-032718-B

Tgt Ion: 56 Resp: 2452
Ion Ratio Lower Upper
56 100
69 93.1 23.4 35.0#
84 73.4 71.0 106.4

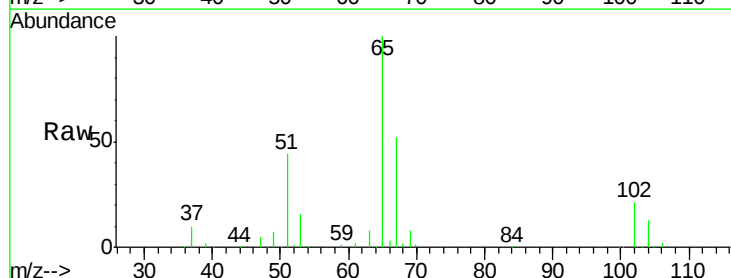


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

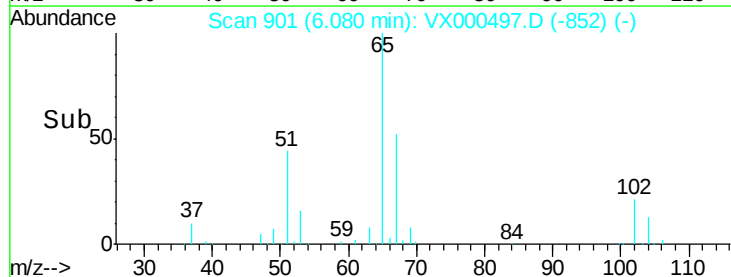
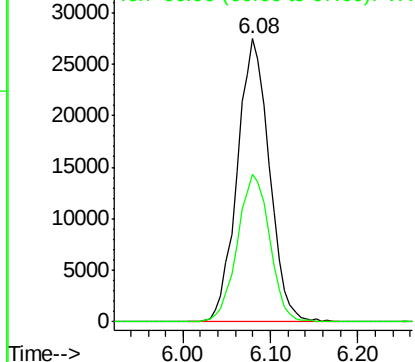


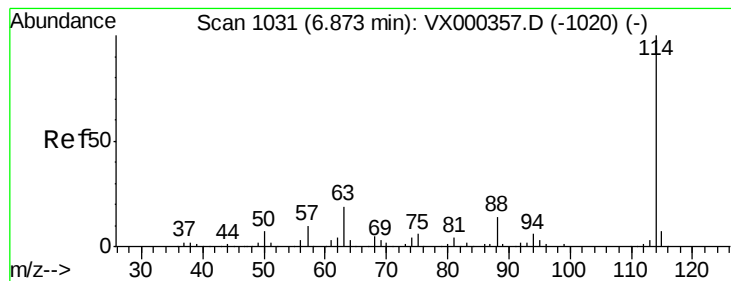
#33
1,2-Dichloroethane-d4
Concen: 56.64 ug/l
RT: 6.08 min Scan# 901
Delta R.T. -0.00 min
Lab File: VX000497.D
Acq: 28 Mar 2018 18:50

Tgt Ion: 65 Resp: 69897
Ion Ratio Lower Upper
65 100
67 52.6 0.0 103.2



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VX000497.D

Acq: 28 Mar 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

OR-01-032718-B

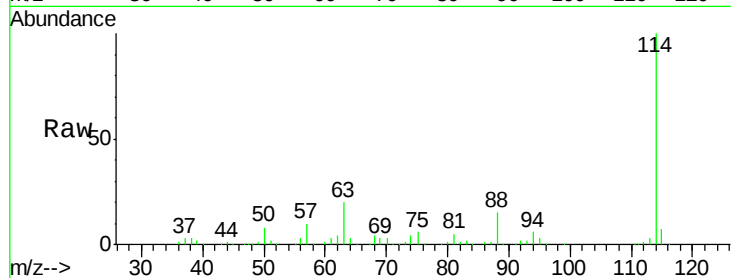
Tgt Ion:114 Resp: 175085

Ion Ratio Lower Upper

114 100

63 20.1 0.0 38.4

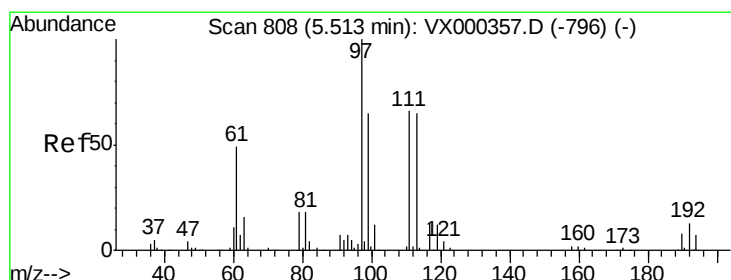
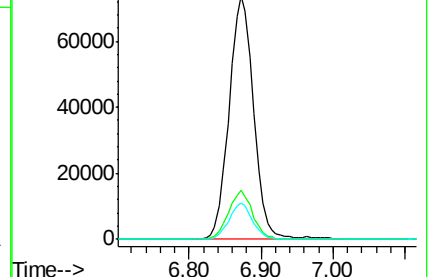
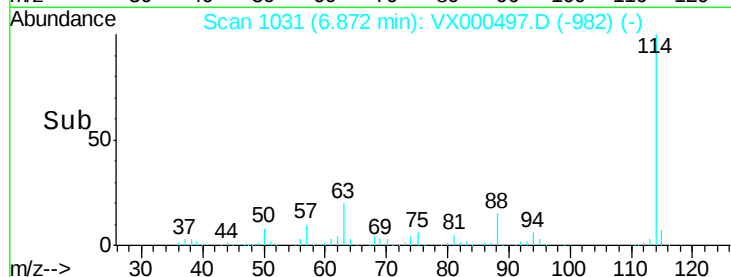
88 15.0 0.0 27.0



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: 50.67 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000497.D

Acq: 28 Mar 2018 18:50

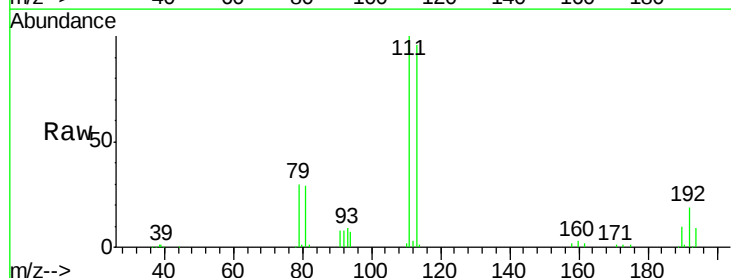
Tgt Ion:113 Resp: 55895

Ion Ratio Lower Upper

113 100

111 105.0 82.4 123.6

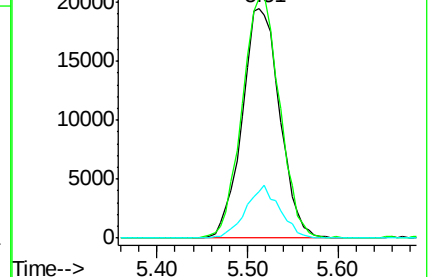
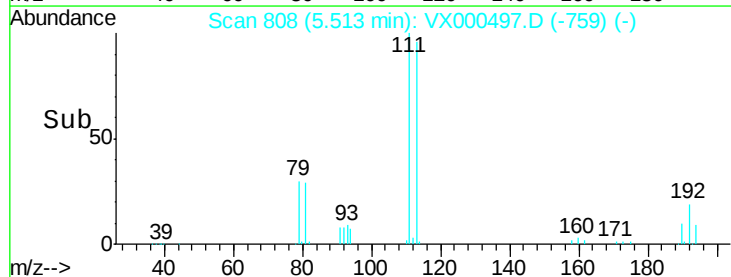
192 20.9 15.8 23.6

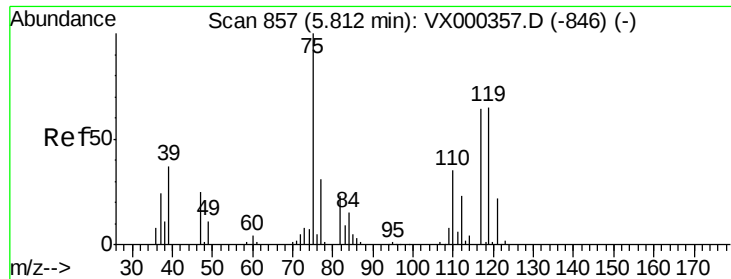


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

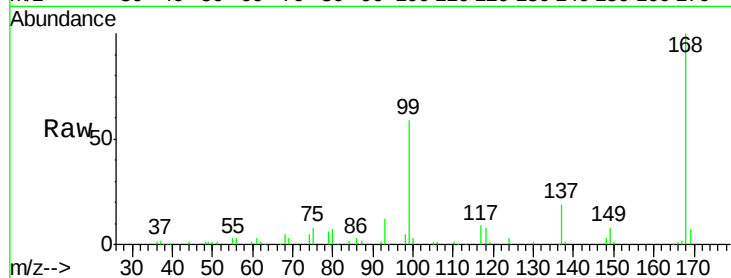




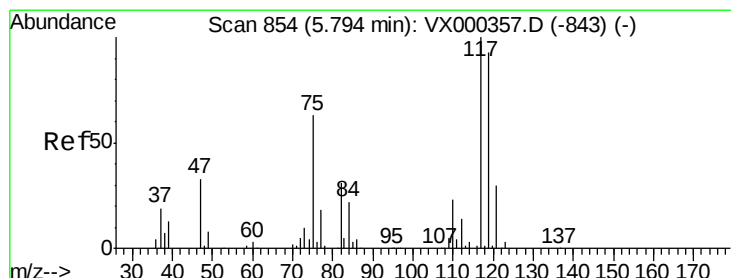
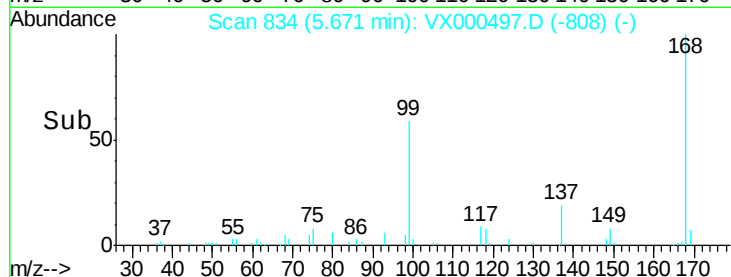
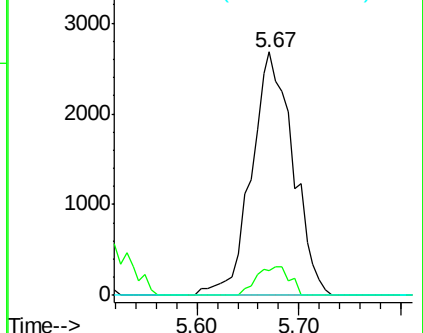
#36
 1,1-Dichloropropene
 Concen: 4.63 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.14 min
 Lab File: VX000497.D
 Acq: 28 Mar 2018 18:50

Instrument :
 MSVOA_X
 ClientSampleId :
 OR-01-032718-B

Tgt Ion: 75 Resp: 7592
 Ion Ratio Lower Upper
 75 100
 110 9.3 17.9 53.7#
 77 0.0 24.0 36.0#

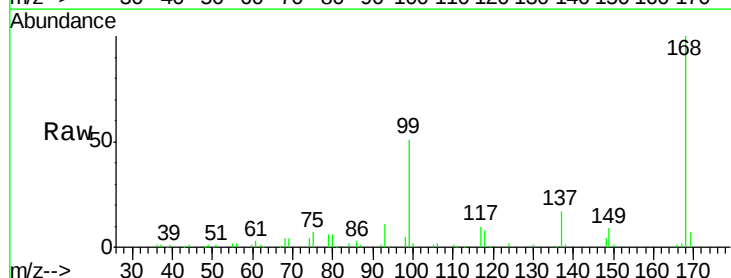


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

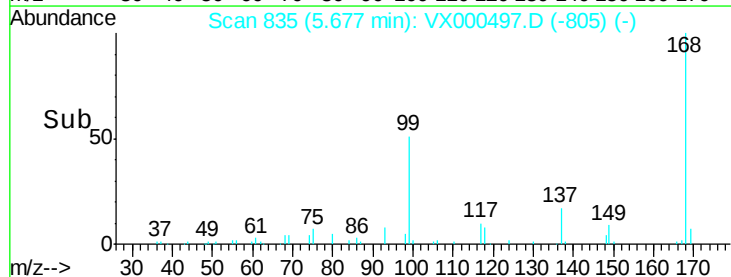
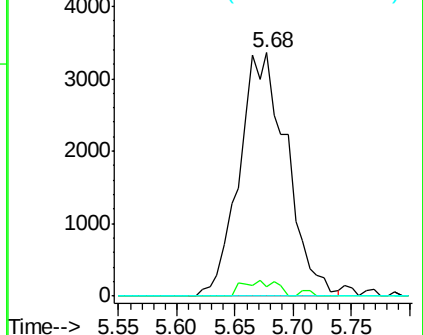


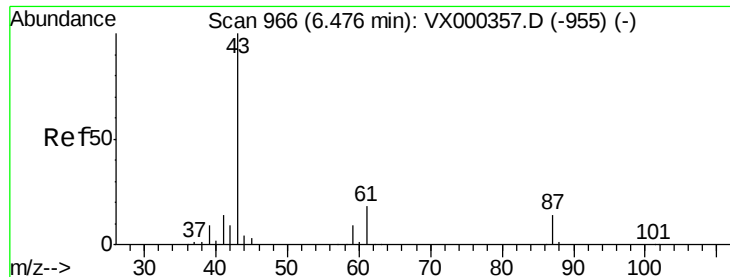
#38
 Carbon Tetrachloride
 Concen: 5.53 ug/l
 RT: 5.68 min Scan# 835
 Delta R.T. -0.12 min
 Lab File: VX000497.D
 Acq: 28 Mar 2018 18:50

Tgt Ion: 117 Resp: 9511
 Ion Ratio Lower Upper
 117 100
 119 4.0 77.4 116.2#
 121 0.0 24.8 37.2#



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





#43

Isopropyl Acetate

Concen: 0.34 ug/l

RT: 6.49 min Scan# 969

Delta R.T. 0.02 min

Lab File: VX000497.D

Acq: 28 Mar 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

OR-01-032718-B

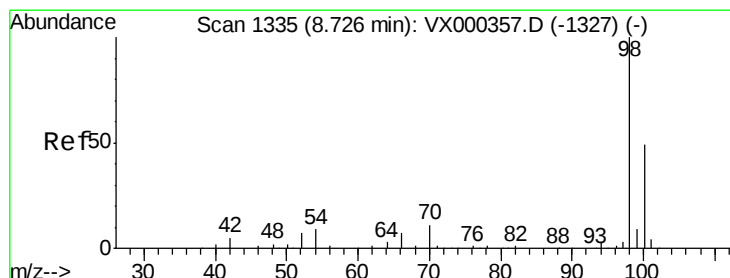
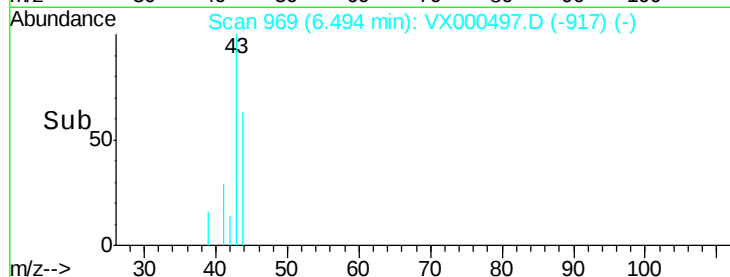
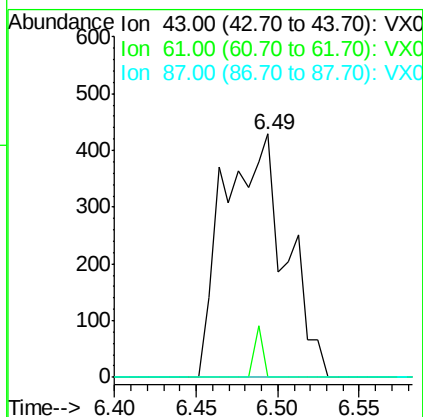
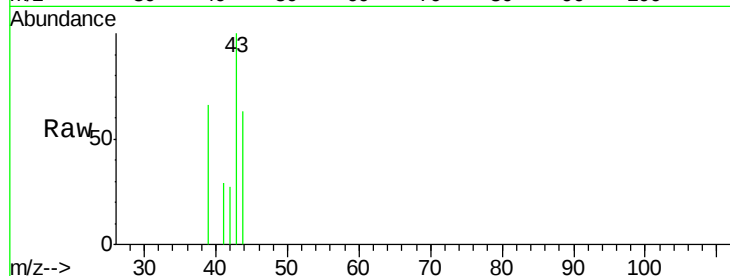
Tgt Ion: 43 Resp: 1133

Ion Ratio Lower Upper

43 100

61 2.9 14.4 21.6#

87 0.0 11.0 16.4#



#50

Toluene-d8

Concen: 48.35 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000497.D

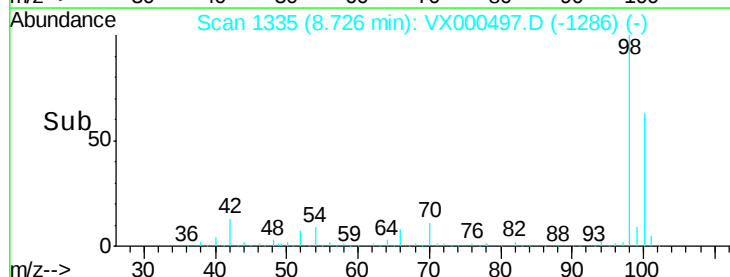
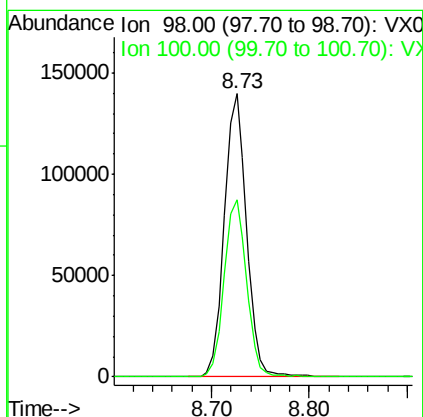
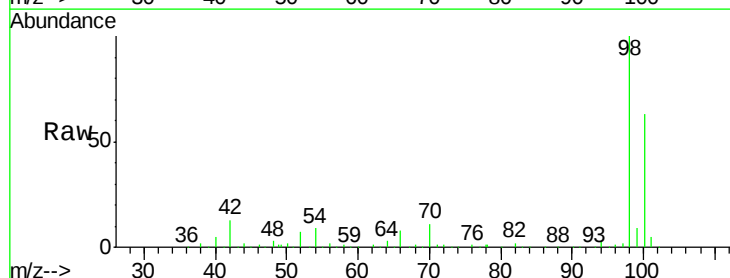
Acq: 28 Mar 2018 18:50

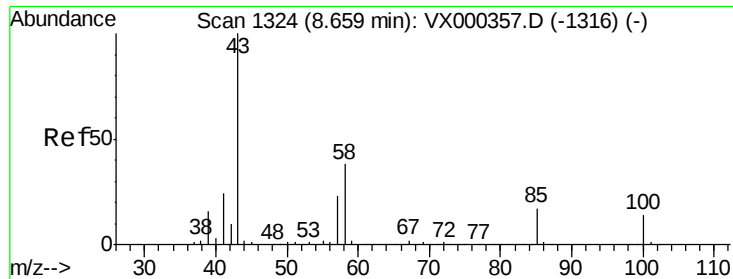
Tgt Ion: 98 Resp: 220912

Ion Ratio Lower Upper

98 100

100 63.3 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 0.24 ug/l

RT: 8.66 min Scan# 1325

Delta R.T. 0.01 min

Lab File: VX000497.D

Acq: 28 Mar 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

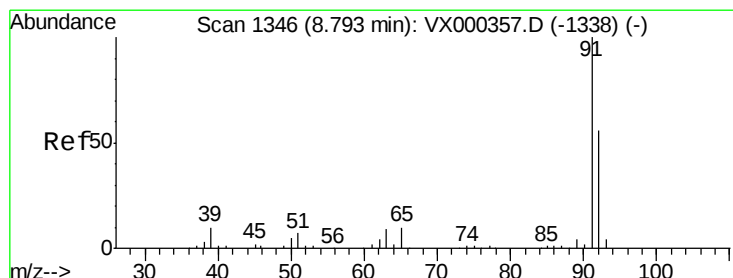
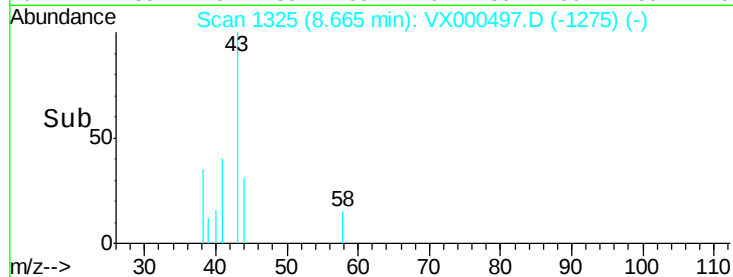
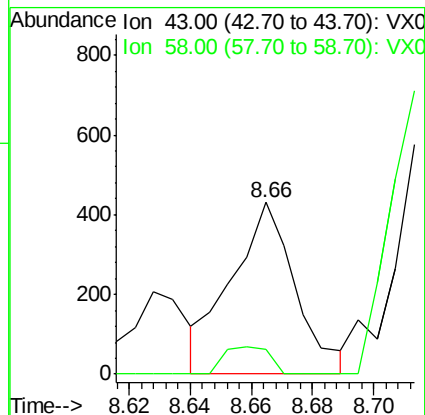
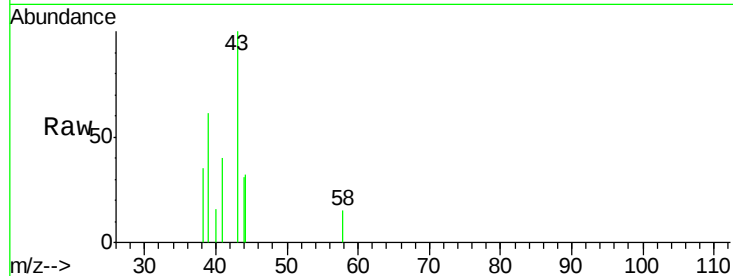
OR-01-032718-B

Tgt Ion: 43 Resp: 622

Ion Ratio Lower Upper

43 100

58 11.4 30.3 45.5#



#52

Toluene

Concen: 0.44 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. -0.00 min

Lab File: VX000497.D

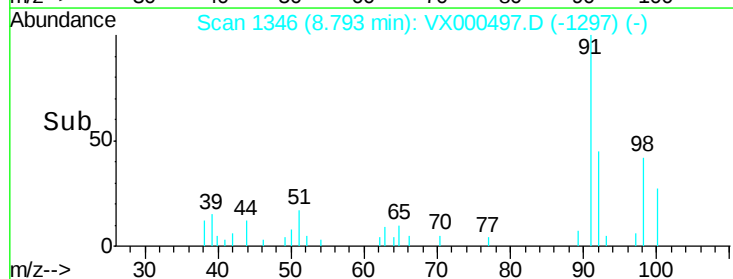
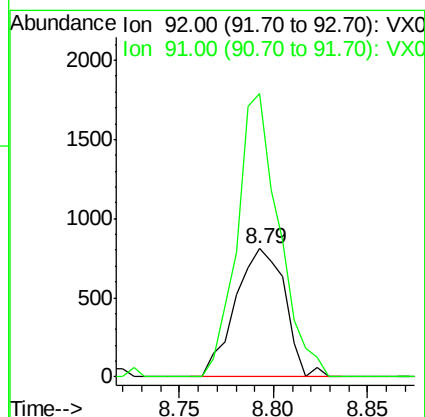
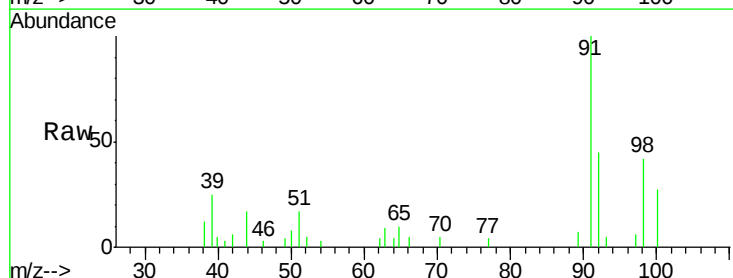
Acq: 28 Mar 2018 18:50

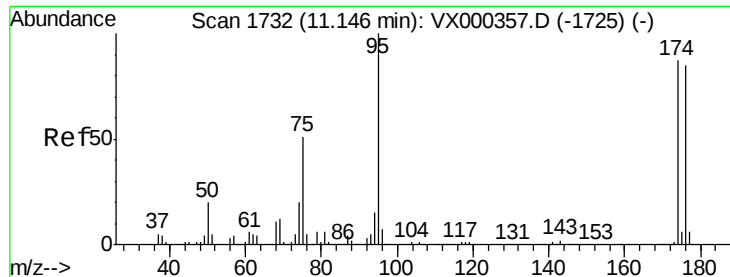
Tgt Ion: 92 Resp: 1469

Ion Ratio Lower Upper

92 100

91 188.2 140.2 210.2





#62

4-Bromofluorobenzene

Concen: 40.29 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000497.D

Acq: 28 Mar 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

OR-01-032718-B

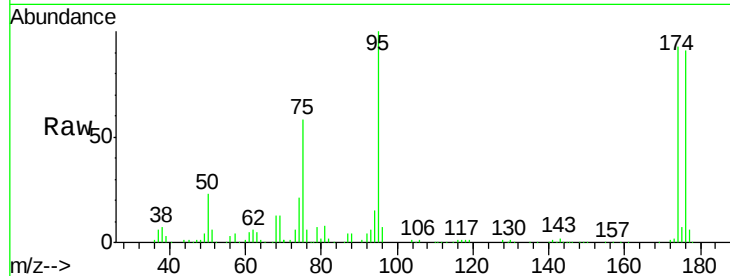
Tgt Ion: 95 Resp: 75140

Ion Ratio Lower Upper

95 100

174 92.2 0.0 173.6

176 89.4 0.0 164.6

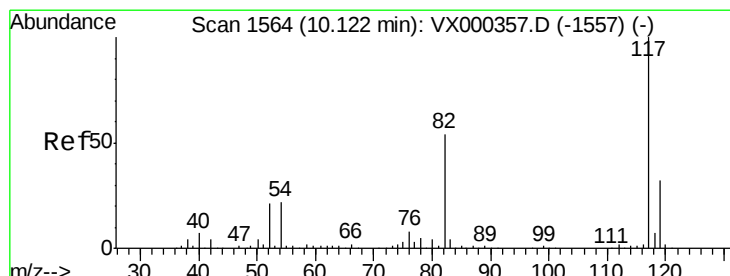
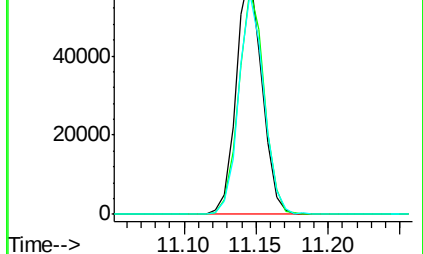
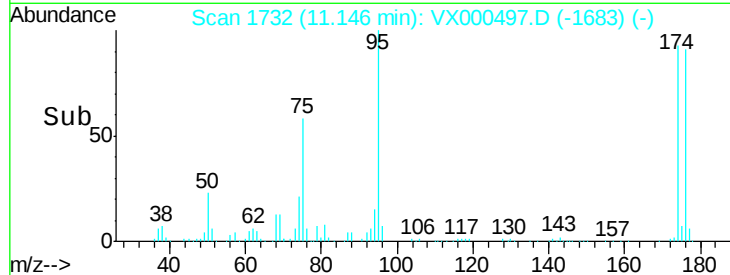


Abundance Ion 94.90 (94.60 to 95.60): VX000497.D (-1683) (-)

Ion 173.80 (173.50 to 174.50): VX000497.D (-1683) (-)

Ion 175.80 (175.50 to 176.50): VX000497.D (-1683) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000497.D

Acq: 28 Mar 2018 18:50

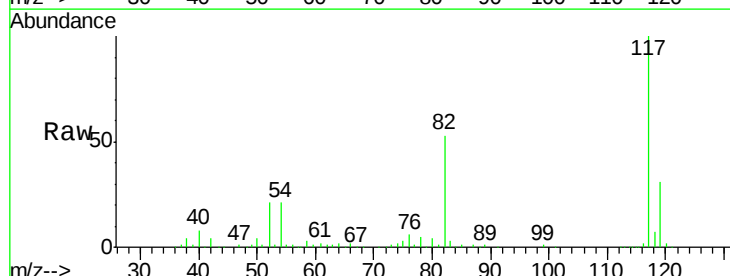
Tgt Ion: 117 Resp: 172018

Ion Ratio Lower Upper

117 100

82 53.1 43.8 65.8

119 31.0 24.9 37.3

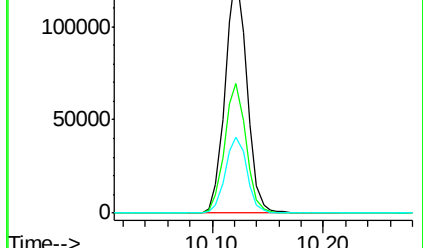
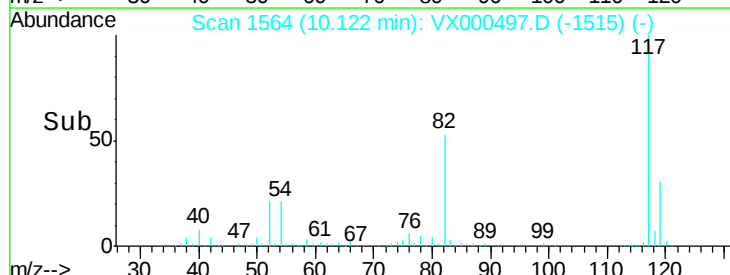


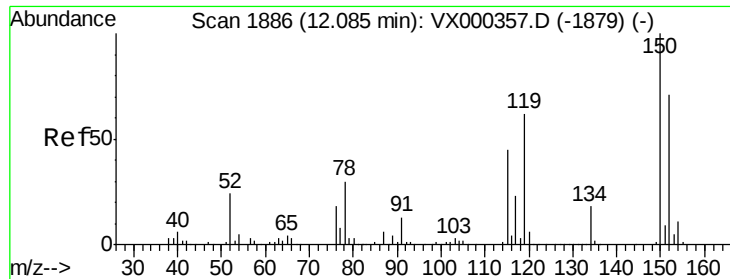
Abundance Ion 116.90 (116.60 to 117.60): VX000497.D (-1515) (-)

Ion 82.00 (81.70 to 82.70): VX000497.D (-1515) (-)

Ion 118.90 (118.60 to 119.60): VX000497.D (-1515) (-)

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000497.D

Acq: 28 Mar 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

OR-01-032718-B

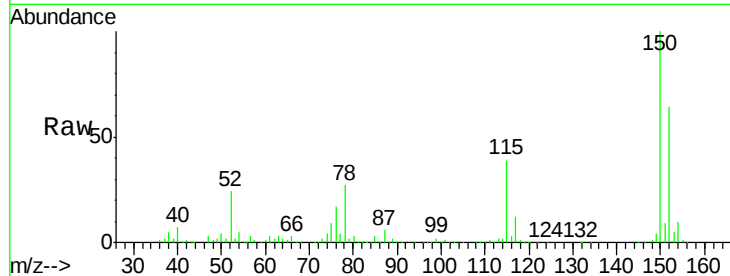
Tgt Ion:152 Resp: 87913

Ion Ratio Lower Upper

152 100

115 56.7 39.8 119.3

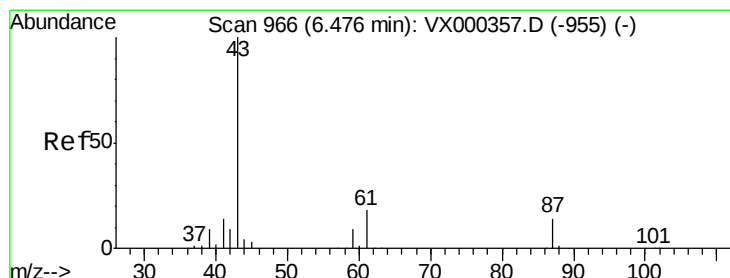
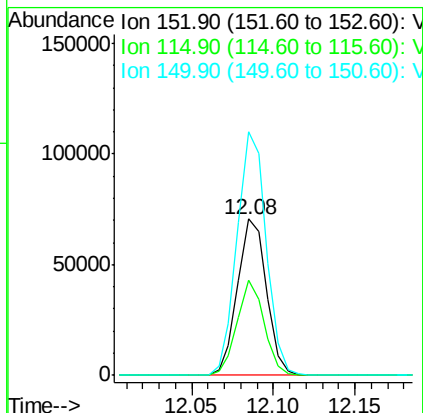
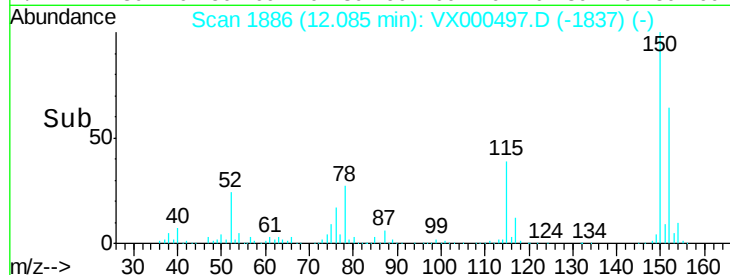
150 156.4 0.0 344.4



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



#74

N-ethyl acetate

Concen: Below Cal

RT: 6.49 min Scan# 969

Delta R.T. 0.02 min

Lab File: VX000497.D

Acq: 28 Mar 2018 18:50

Tgt Ion: 43 Resp: 1133

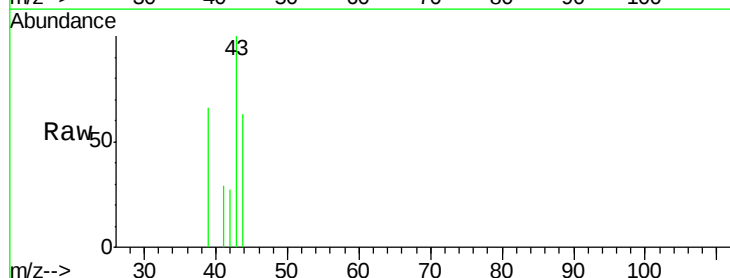
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 2.9 14.4 21.6#

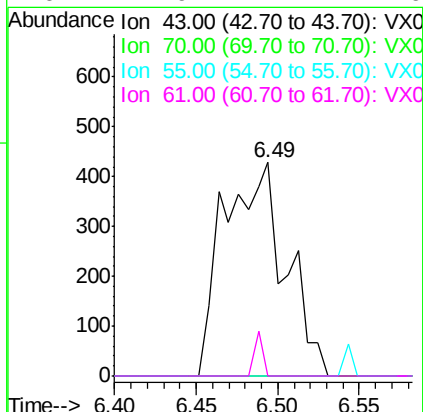
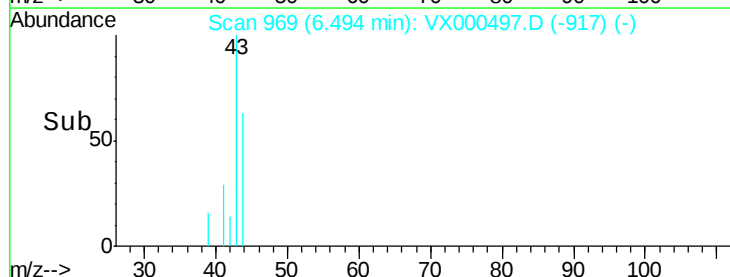


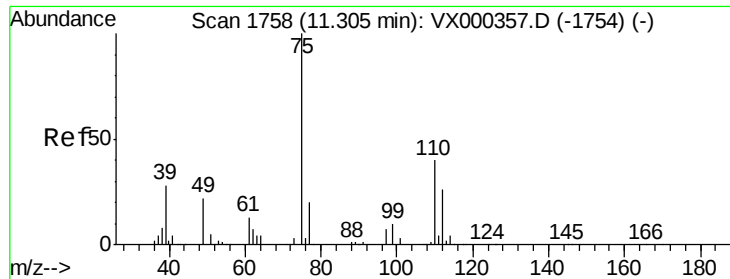
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 23.40 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000497.D

Acq: 28 Mar 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

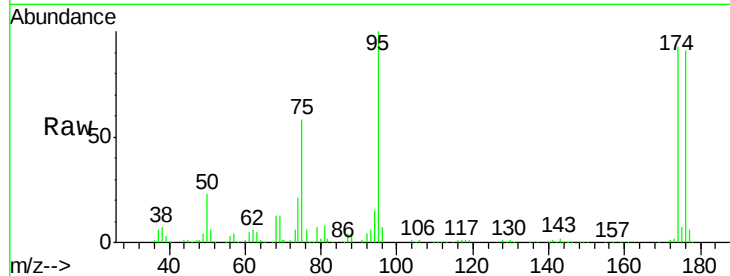
OR-01-032718-B

Tgt Ion: 75 Resp: 44205

Ion Ratio Lower Upper

75 100

77 1.2 21.4 64.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.15

40000

30000

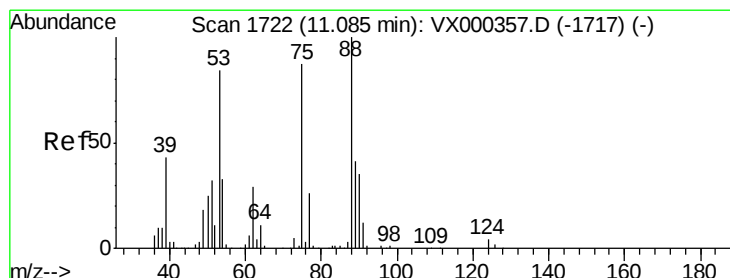
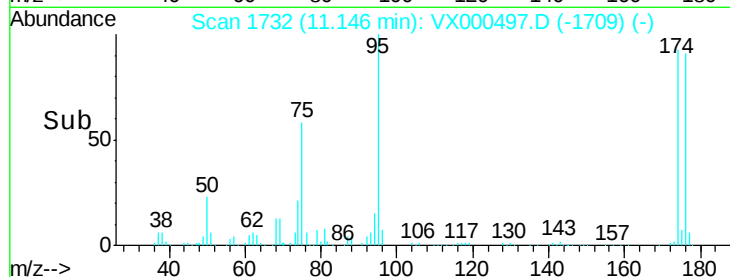
20000

10000

0

Time-->

11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 75.75 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000497.D

Acq: 28 Mar 2018 18:50

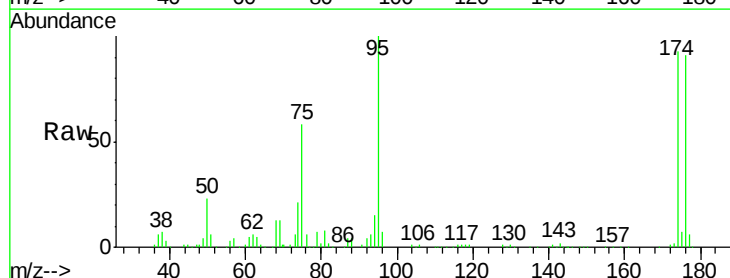
Tgt Ion: 75 Resp: 44205

Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

89 0.0 39.4 59.0#



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

11.15

40000

30000

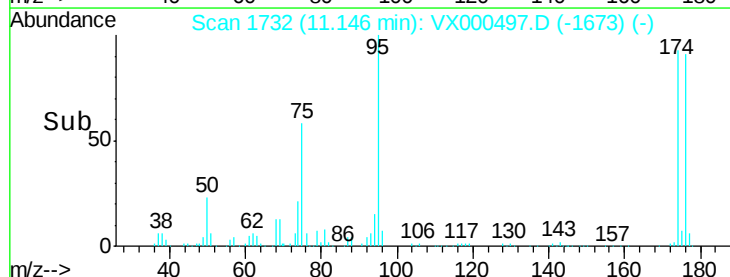
20000

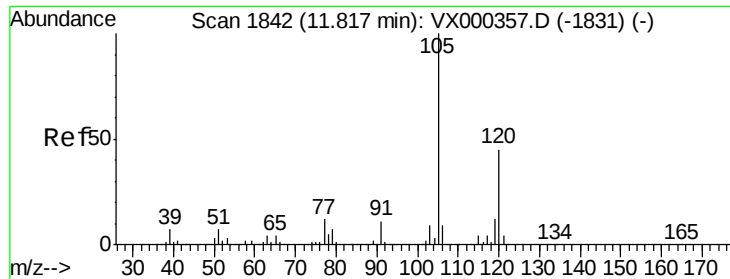
10000

0

Time-->

11.10 11.15 11.20

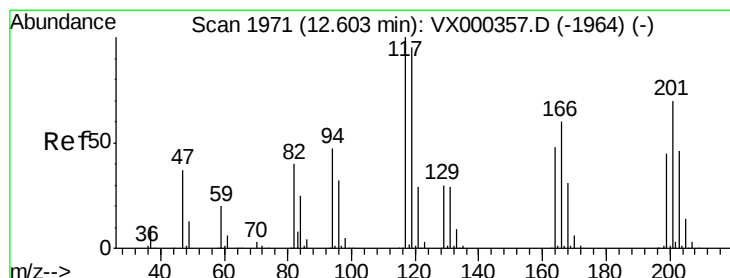
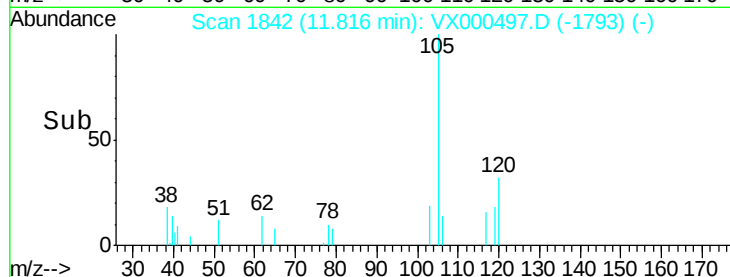
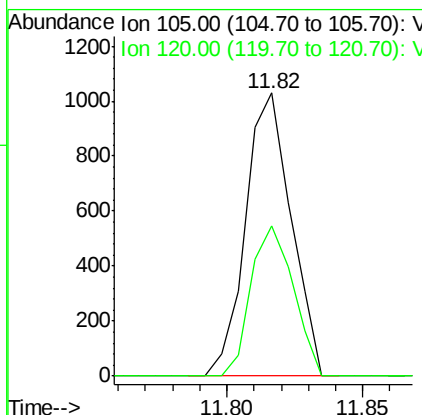
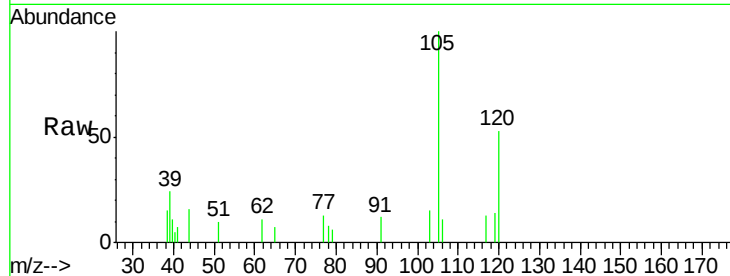




#84
 1,2,4-Trimethylbenzene
 Concen: 0.23 ug/l
 RT: 11.82 min Scan# 1842
 Delta R.T. -0.00 min
 Lab File: VX000497.D
 Acq: 28 Mar 2018 18:50

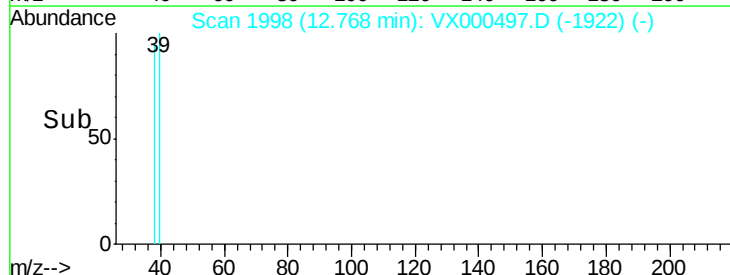
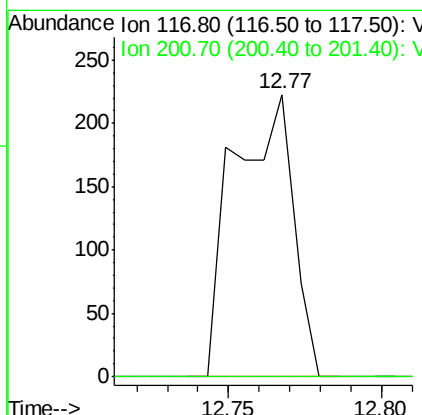
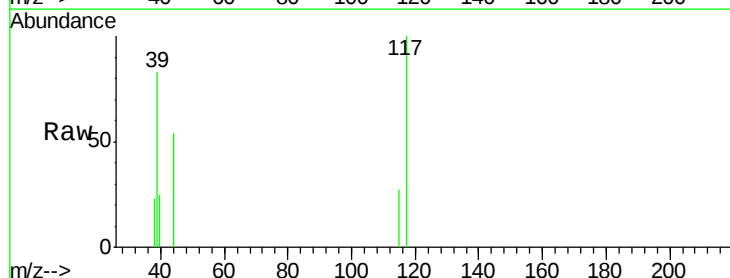
Instrument :
 MSVOA_X
 ClientSampleId :
 OR-01-032718-B

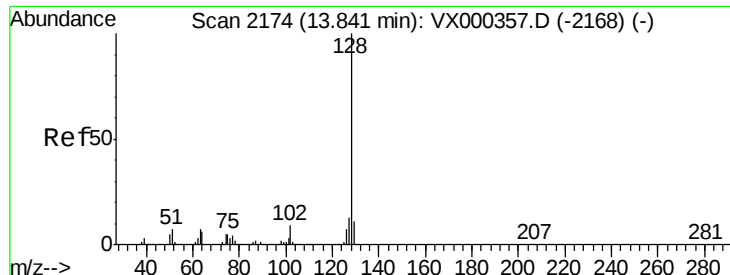
Tgt Ion:105 Resp: 1194
 Ion Ratio Lower Upper
 105 100
 120 49.2 22.4 67.3



#90
 Hexachloroethane
 Concen: 0.35 ug/l
 RT: 12.77 min Scan# 1998
 Delta R.T. 0.16 min
 Lab File: VX000497.D
 Acq: 28 Mar 2018 18:50

Tgt Ion:117 Resp: 300
 Ion Ratio Lower Upper
 117 100
 201 0.0 37.9 113.6#





#95

Naphthalene

Concen: 3.61 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000497.D

Acq: 28 Mar 2018 18:50

Instrument :

MSVOA_X

ClientSampleId :

OR-01-032718-B

Tgt Ion:128 Resp: 25965

Ion Ratio Lower Upper

128 100

127 13.1 10.6 15.8

129 11.1 8.9 13.3

