

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX041118\
 Data File : VX000785.D
 Acq On : 11 Apr 2018 18:04
 Operator : JC/MD
 Sample : J2306-04 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RB36275

Quant Time: Apr 12 07:07:36 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	306884	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	425949	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	399641	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	239129	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	154710	39.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.96%	
35) Dibromofluoromethane	5.51	113	129869	39.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.14%	
50) Toluene-d8	8.72	98	493312	40.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.74%	
62) 4-Bromofluorobenzene	11.15	95	199499	39.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.92%	

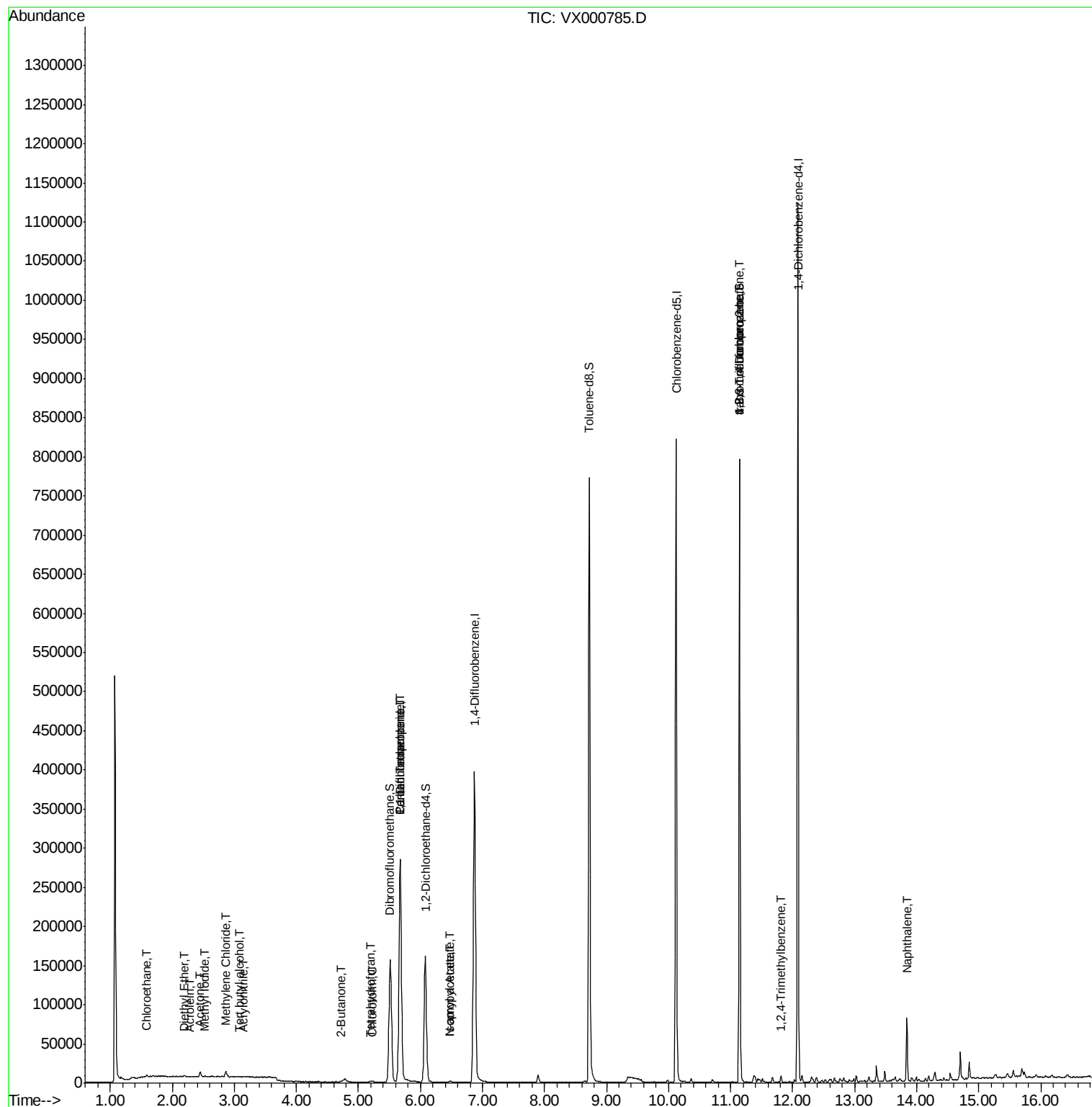
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	390	Below Cal	#	42
6) Chloroethane	1.59	64	646	0.32	ug/l #	48
8) Diethyl Ether	2.20	74	379	0.20	ug/l	83
10) Methyl Iodide	2.51	142	280	8.33	ug/l #	76
11) Tert butyl alcohol	3.07	59	154	0.22	ug/l #	1
13) Acrolein	2.29	56	84	0.25	ug/l #	13
15) Acrylonitrile	3.14	53	453	0.31	ug/l #	51
16) Acetone	2.45	43	6777	5.08	ug/l	100
20) Methylene Chloride	2.86	84	3319	1.07	ug/l	94
25) 2-Butanone	4.71	43	1932	0.88	ug/l #	72
29) Tetrahydrofuran	5.18	42	653	0.47	ug/l #	42
30) Chloroform	5.23	83	1392	0.24	ug/l #	74
36) 1,1-Dichloropropene	5.67	75	18179	3.88	ug/l #	49
38) Carbon Tetrachloride	5.67	117	26054	4.96	ug/l #	15
43) Isopropyl Acetate	6.48	43	2526	0.32	ug/l #	94
74) N-amyl acetate	6.48	43	2526	0.37	ug/l #	97
76) 1,2,3-Trichloropropane	11.14	75	97909	23.74	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	97909	65.31	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	3380	0.25	ug/l	94
95) Naphthalene	13.84	128	48993	2.82	ug/l	99

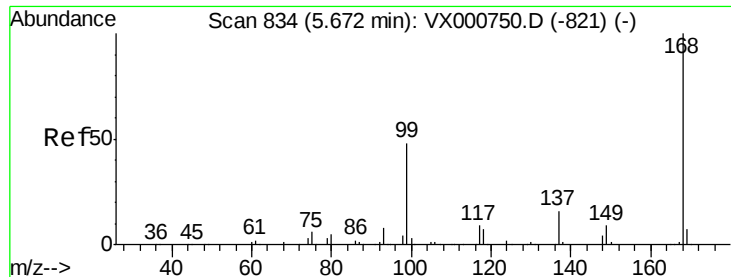
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

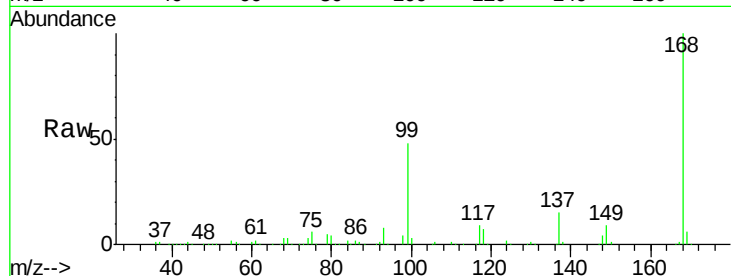
RB36275

Tgt Ion: 168 Resp: 306884

Ion Ratio Lower Upper

168 100

99 48.1 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

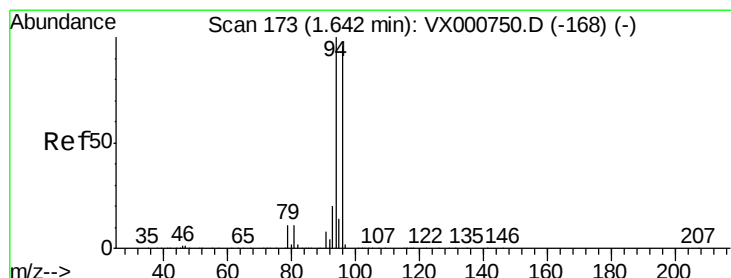
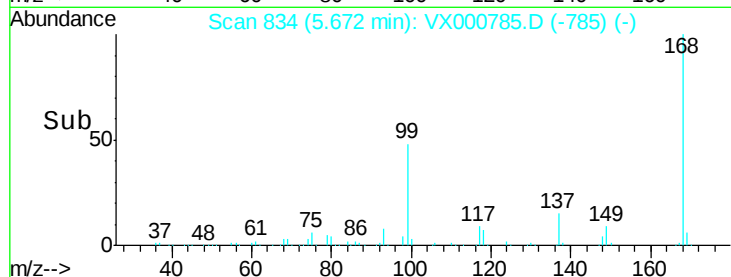
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX000785.D

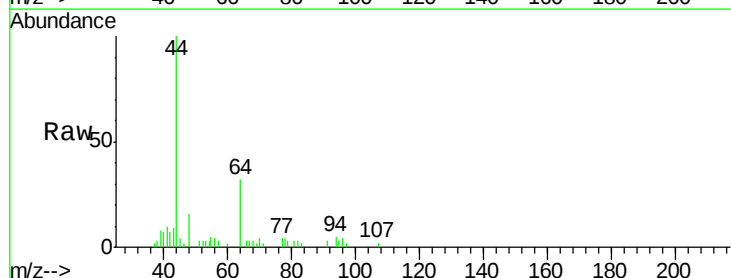
Acq: 11 Apr 2018 18:04

Tgt Ion: 94 Resp: 390

Ion Ratio Lower Upper

94 100

96 39.6 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

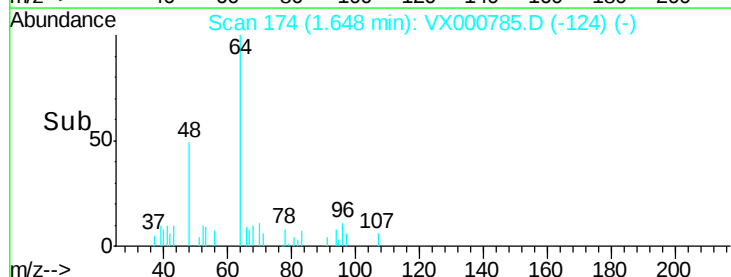
150

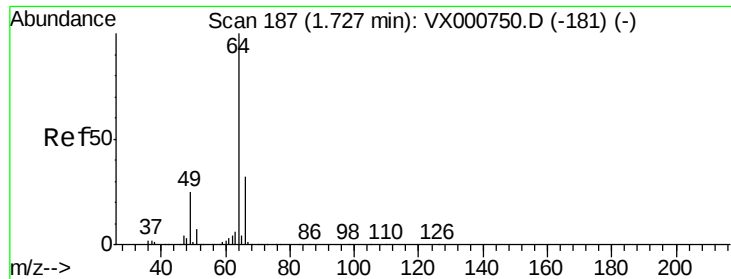
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.32 ug/l

RT: 1.59 min Scan# 165

Delta R.T. -0.13 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

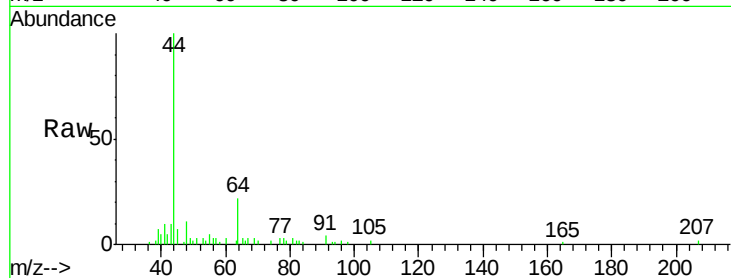
RB36275

Tgt Ion: 64 Resp: 646

Ion Ratio Lower Upper

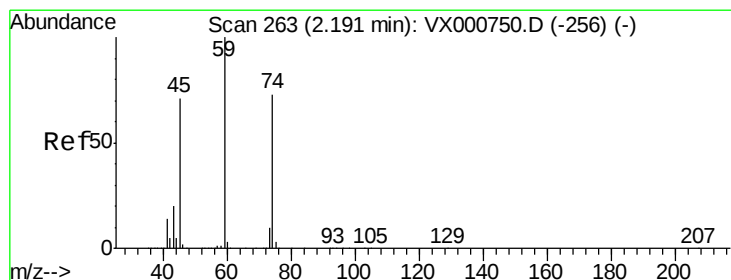
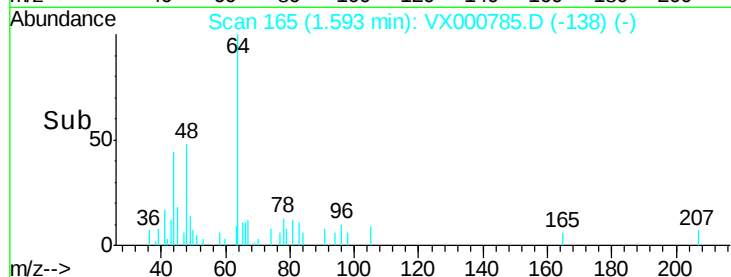
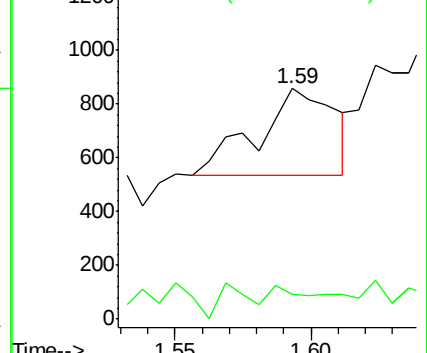
64 100

66 2.8 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: 0.20 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX000785.D

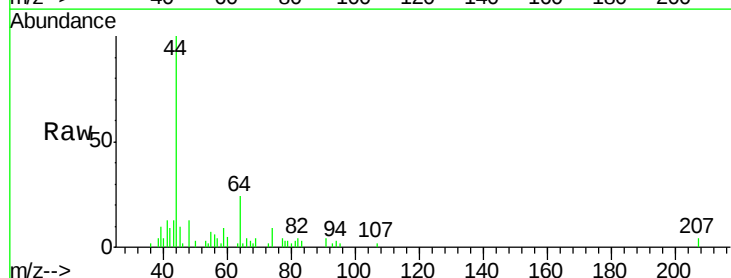
Acq: 11 Apr 2018 18:04

Tgt Ion: 74 Resp: 379

Ion Ratio Lower Upper

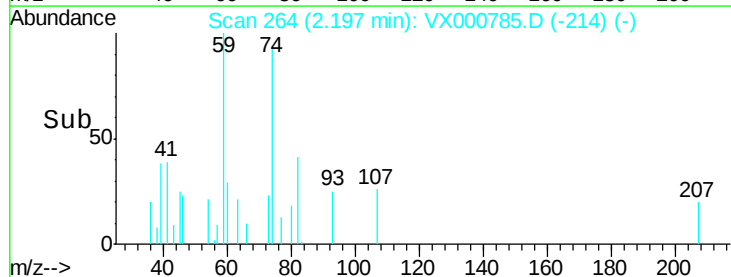
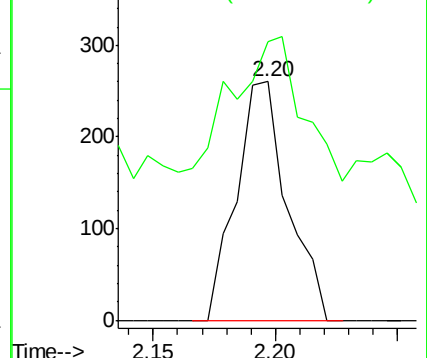
74 100

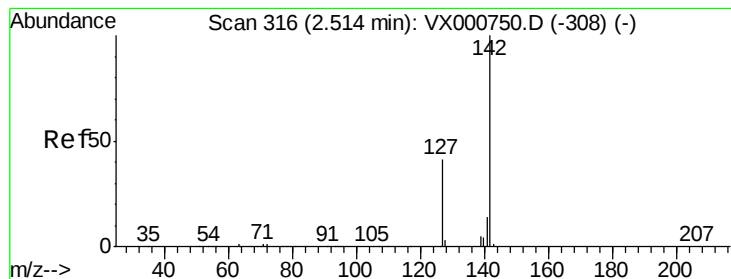
45 80.7 48.6 145.8



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#10

Methyl Iodide

Concen: 8.33 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

RB36275

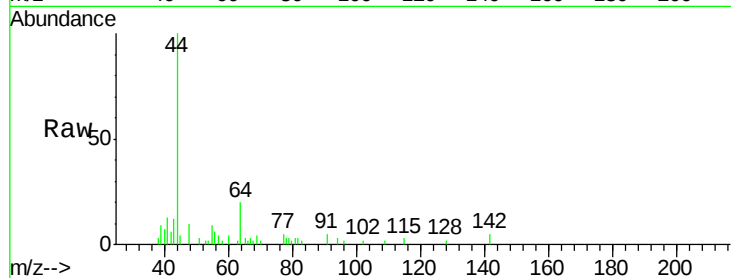
Tgt Ion:142 Resp: 280

Ion Ratio Lower Upper

142 100

127 28.6 32.6 49.0#

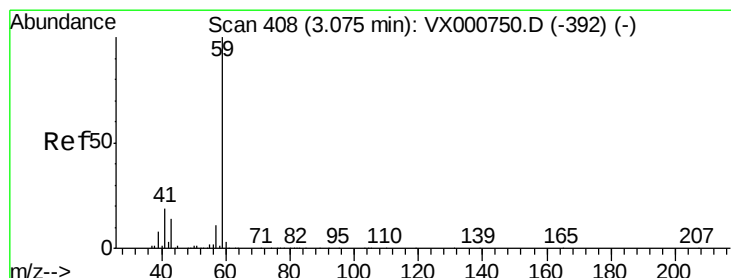
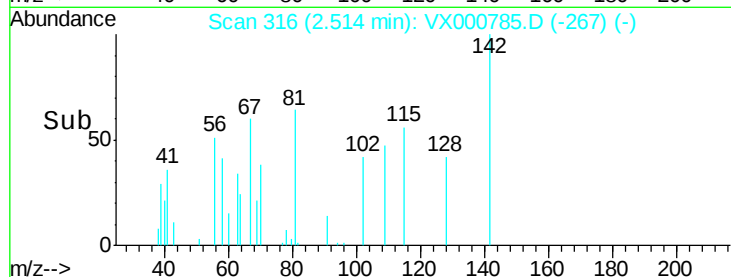
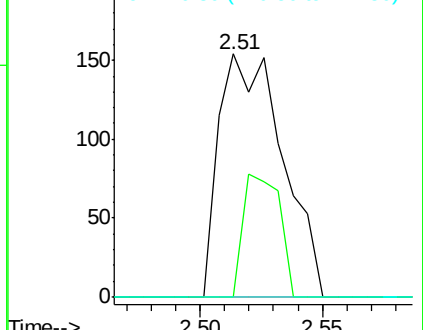
141 0.0 11.5 17.3#



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: 0.22 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.00 min

Lab File: VX000785.D

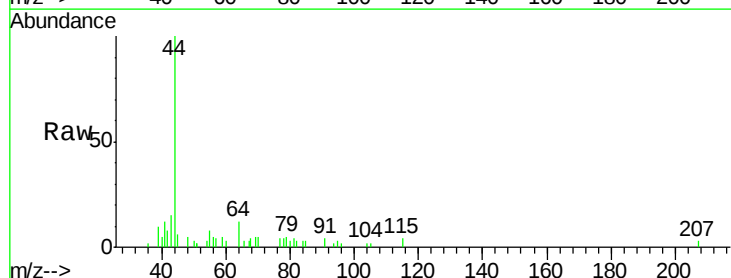
Acq: 11 Apr 2018 18:04

Tgt Ion: 59 Resp: 154

Ion Ratio Lower Upper

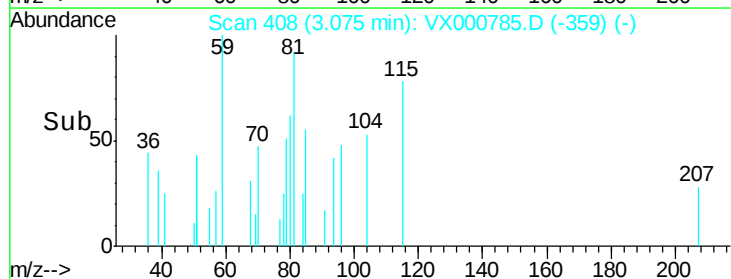
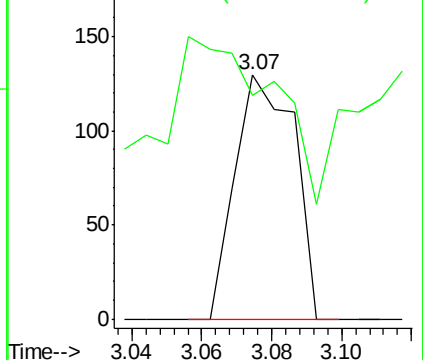
59 100

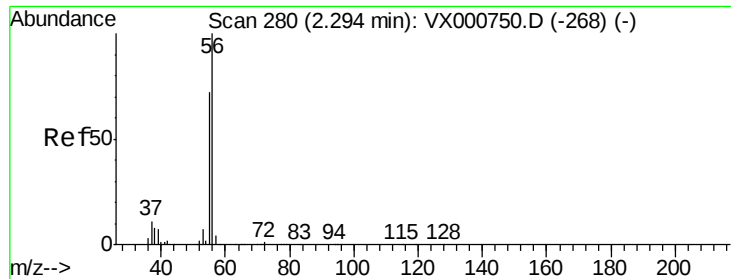
57 118.2 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.25 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

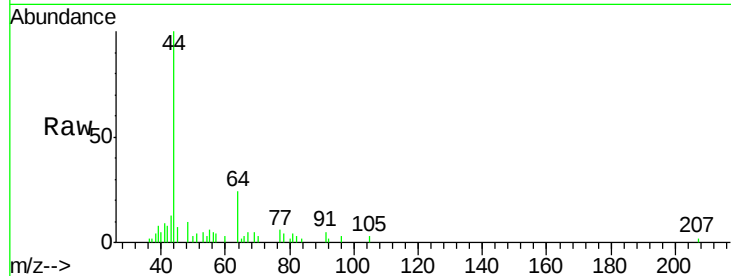
RB36275

Tgt Ion: 56 Resp: 84

Ion Ratio Lower Upper

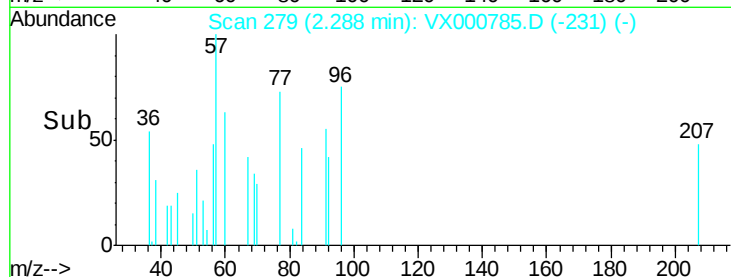
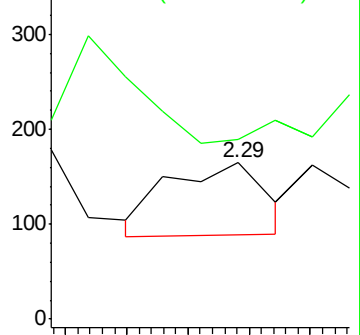
56 100

55 0.0 58.7 88.1#

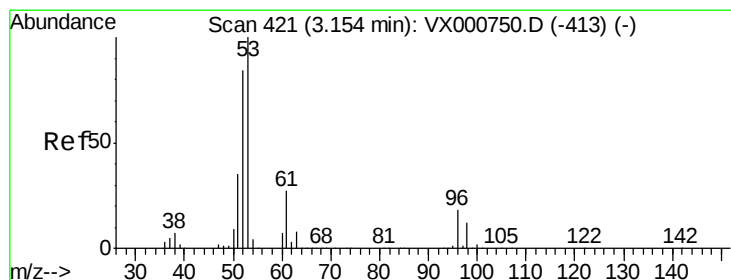


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acrylonitrile

Concen: 0.31 ug/l

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

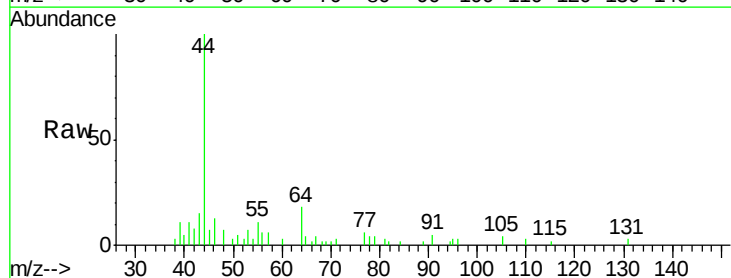
Tgt Ion: 53 Resp: 453

Ion Ratio Lower Upper

53 100

52 36.2 66.5 99.7#

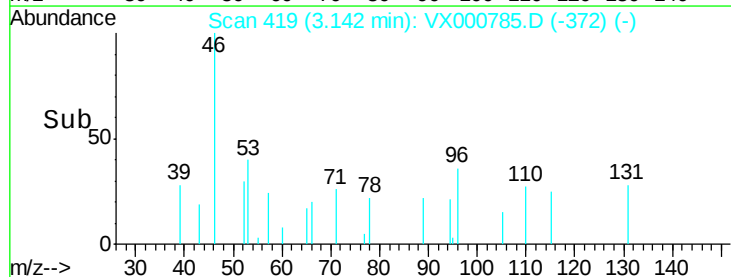
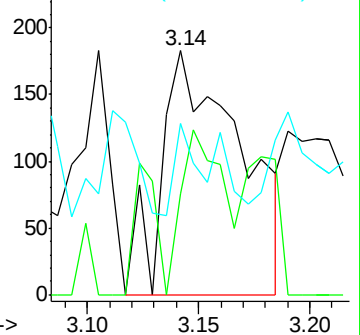
51 10.8 28.8 43.2#



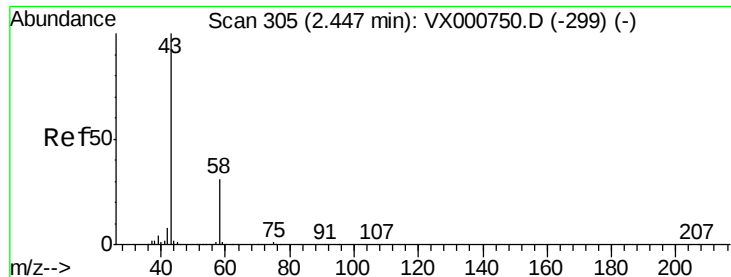
Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->



#16

Acetone

Concen: 5.08 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

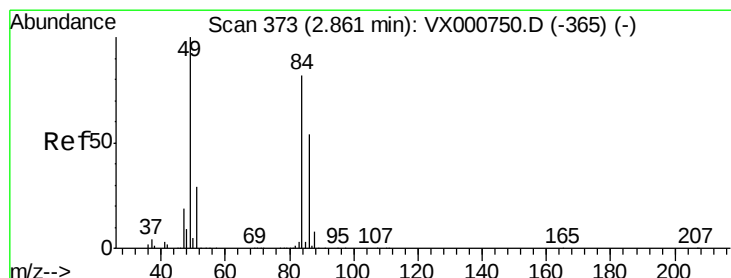
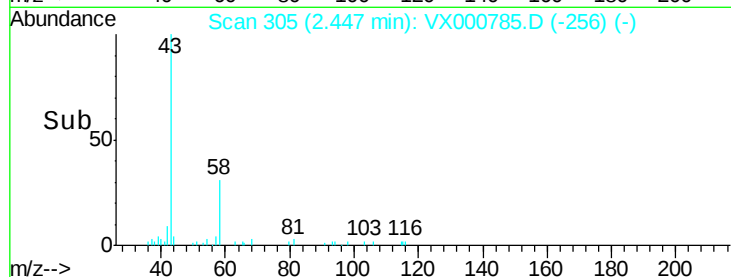
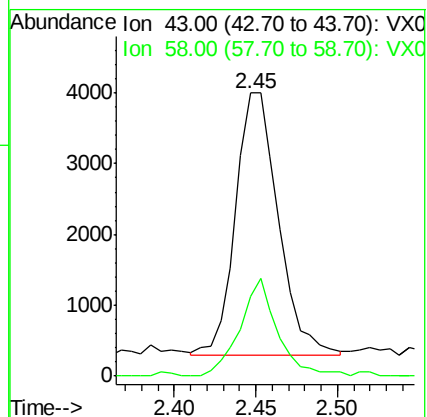
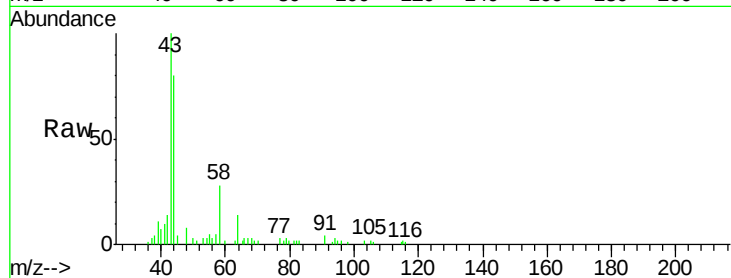
RB36275

Tgt Ion: 43 Resp: 6777

Ion Ratio Lower Upper

43 100

58 30.6 24.6 37.0



#20

Methylene Chloride

Concen: 1.07 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

Tgt Ion: 84 Resp: 3319

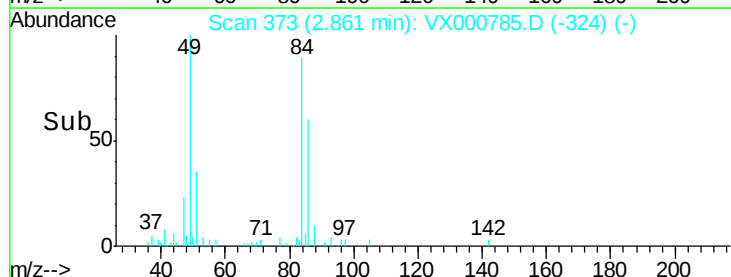
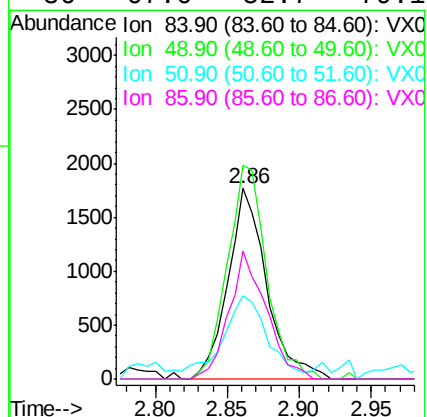
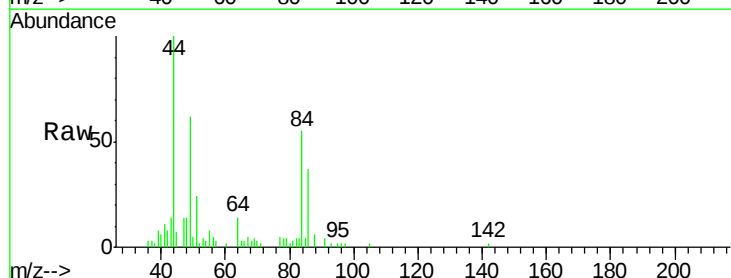
Ion Ratio Lower Upper

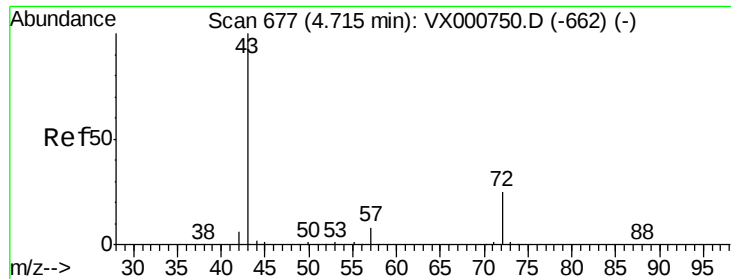
84 100

49 112.0 98.1 147.1

51 37.8 28.9 43.3

86 67.0 52.7 79.1





#25

2-Butanone

Concen: 0.88 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.00 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

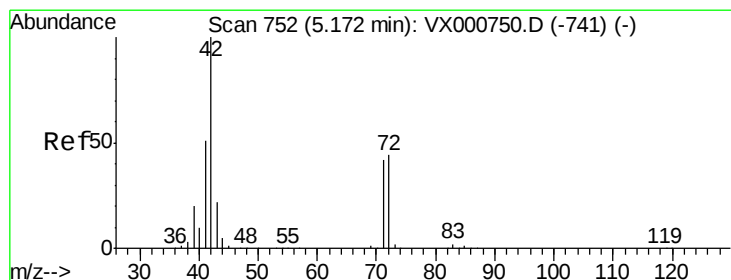
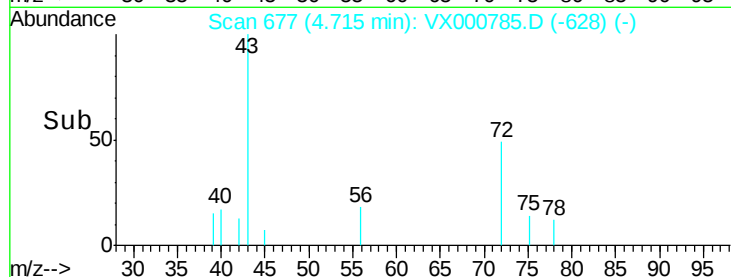
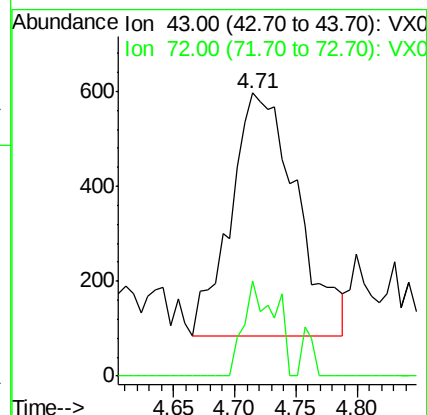
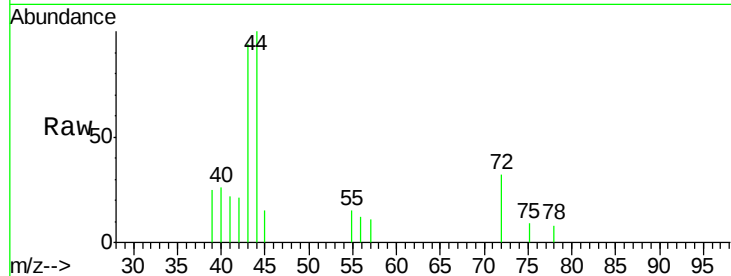
RB36275

Tgt Ion: 43 Resp: 1932

Ion Ratio Lower Upper

43 100

72 39.4 20.3 30.5#



#29

Tetrahydrofuran

Concen: 0.47 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

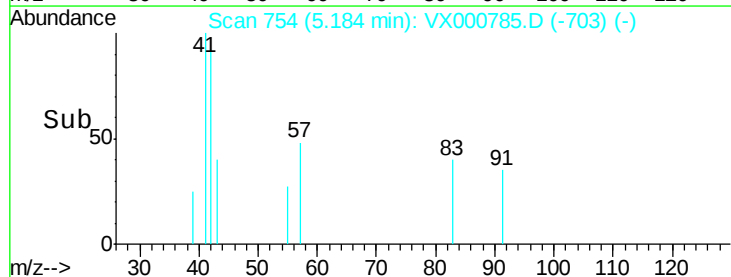
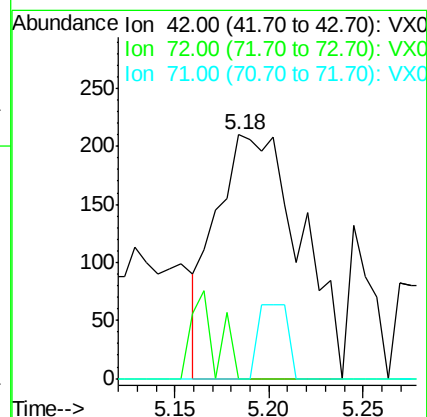
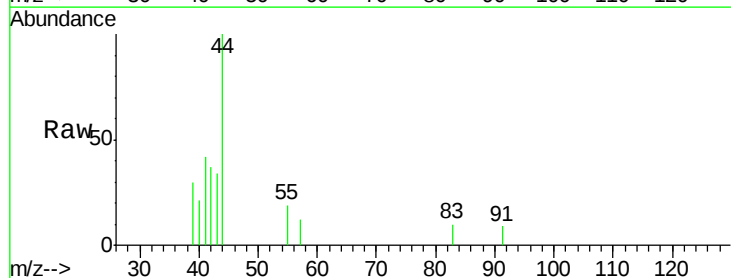
Tgt Ion: 42 Resp: 653

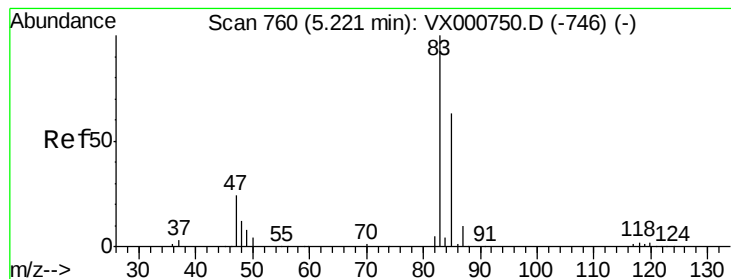
Ion Ratio Lower Upper

42 100

72 10.6 35.1 52.7#

71 0.0 32.8 49.2#





#30

Chloroform

Concen: 0.24 ug/l

RT: 5.23 min Scan# 762

Delta R.T. 0.01 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

Instrument :

MSVOA_X

ClientSampled :

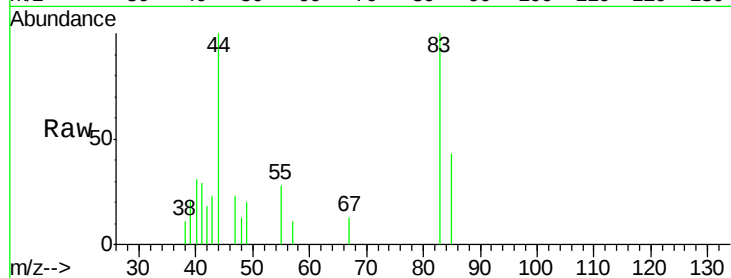
RB36275

Tgt Ion: 83 Resp: 1392

Ion Ratio Lower Upper

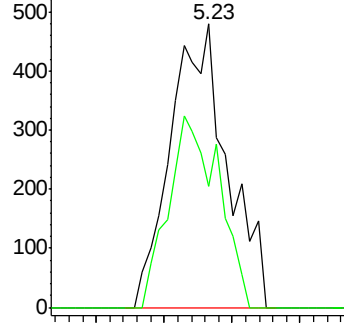
83 100

85 42.8 50.7 76.1#

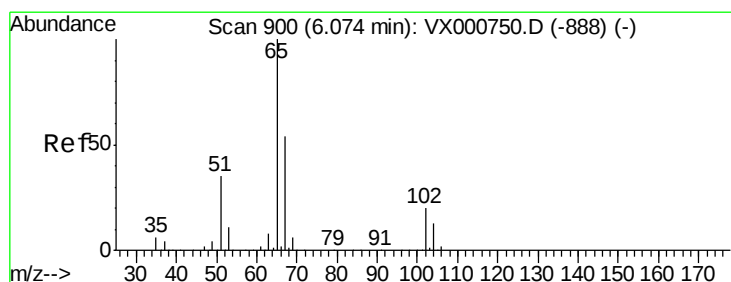
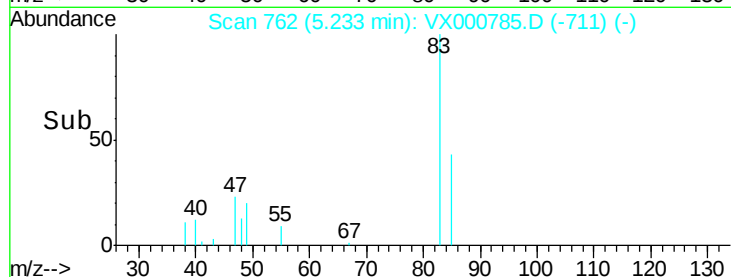


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0



Time-->



#33

1,2-Dichloroethane-d4

Concen: 39.98 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX000785.D

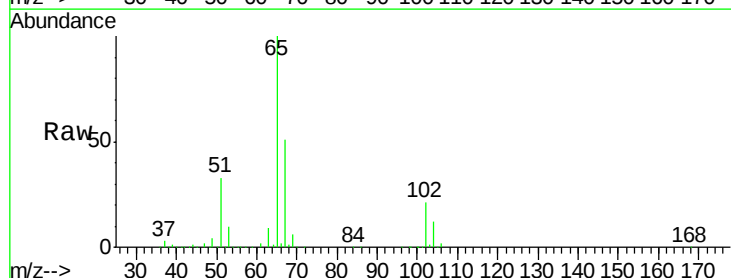
Acq: 11 Apr 2018 18:04

Tgt Ion: 65 Resp: 154710

Ion Ratio Lower Upper

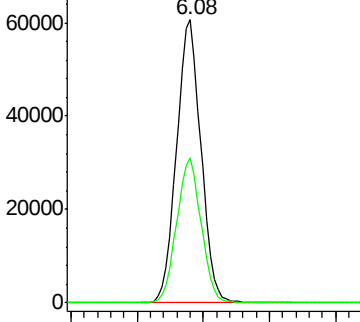
65 100

67 51.6 0.0 103.8

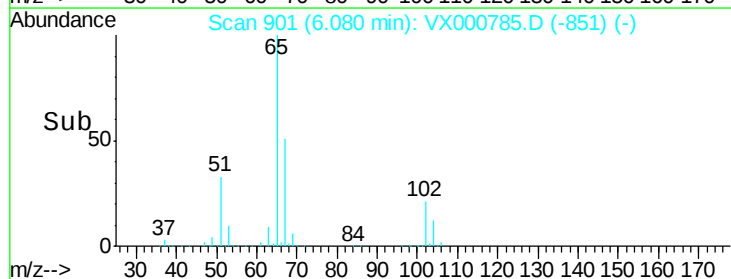


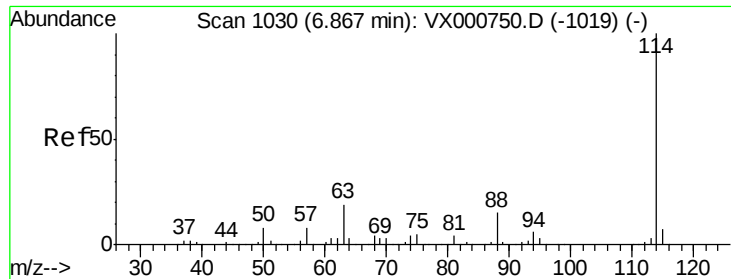
Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



Time-->





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

RB36275

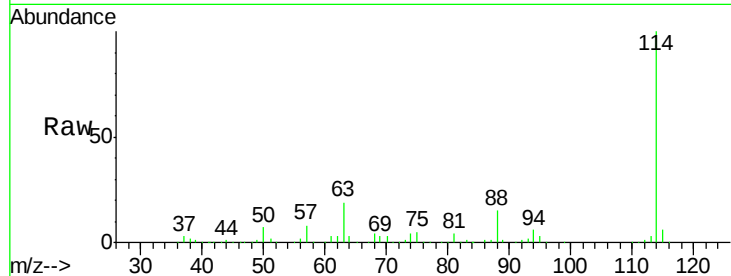
Tgt Ion:114 Resp: 425949

Ion Ratio Lower Upper

114 100

63 18.7 0.0 38.4

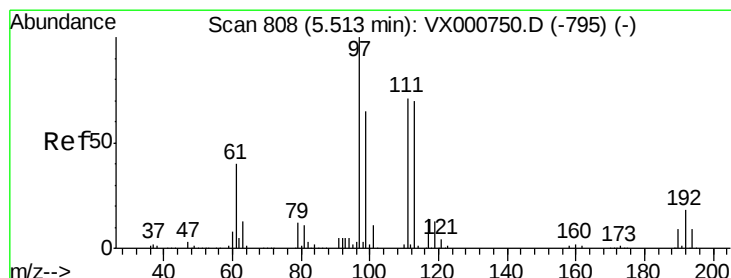
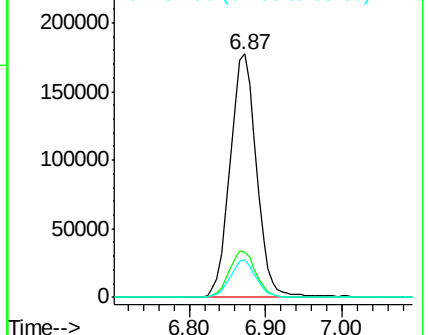
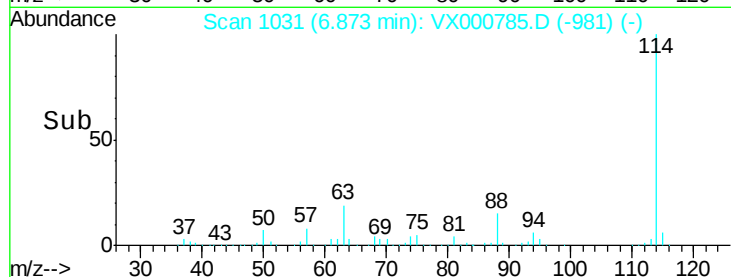
88 15.4 0.0 31.0



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: 39.57 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

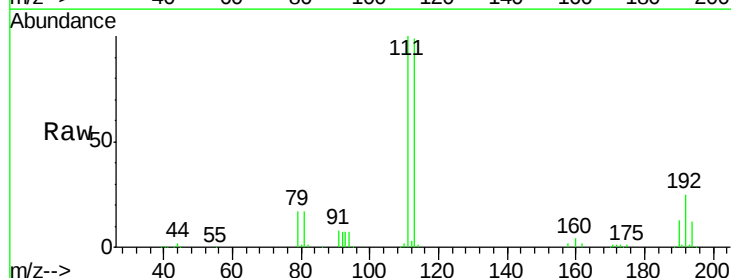
Tgt Ion:113 Resp: 129869

Ion Ratio Lower Upper

113 100

111 101.7 81.5 122.3

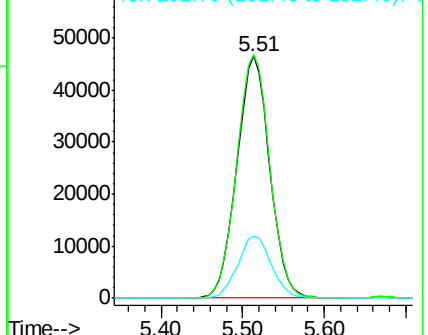
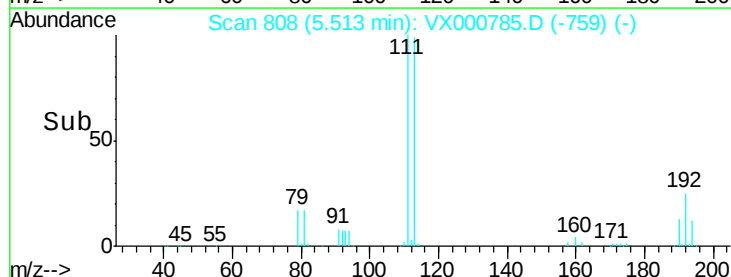
192 26.1 20.4 30.6

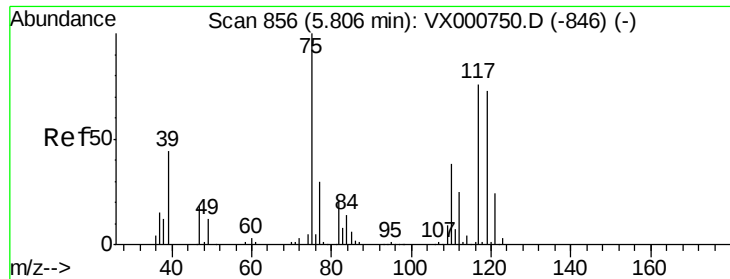


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

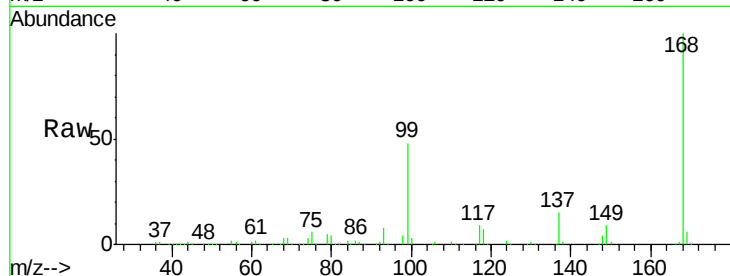




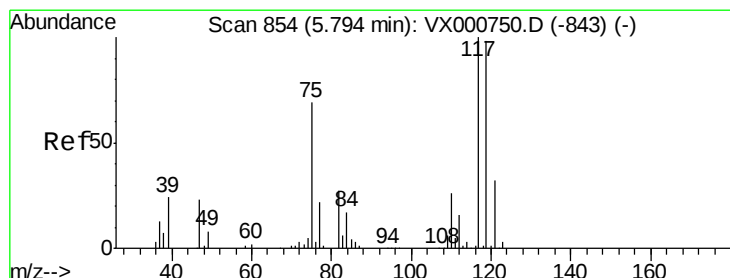
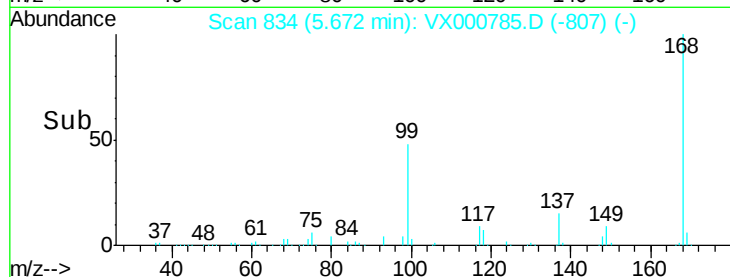
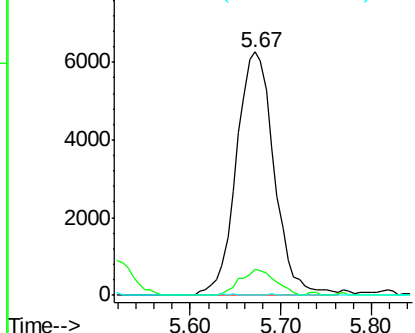
#36
 1,1-Dichloropropene
 Concen: 3.88 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX000785.D
 Acq: 11 Apr 2018 18:04

Instrument :
 MSVOA_X
 ClientSampleId :
 RB36275

Tgt Ion: 75 Resp: 18179
 Ion Ratio Lower Upper
 75 100
 110 10.1 19.2 57.6#
 77 0.1 25.4 38.2#

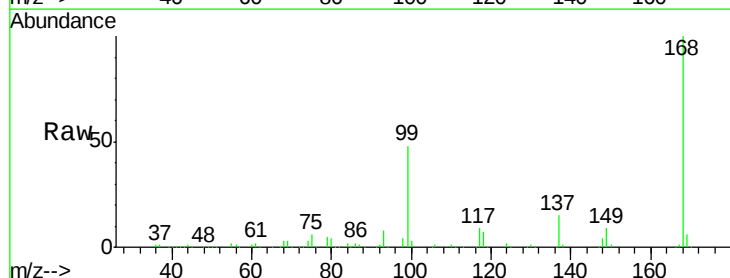


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

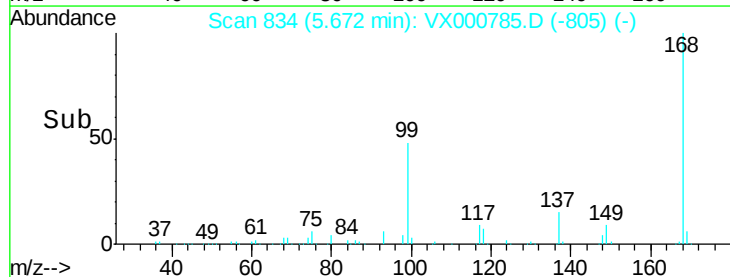
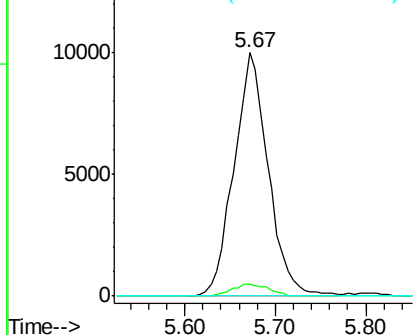


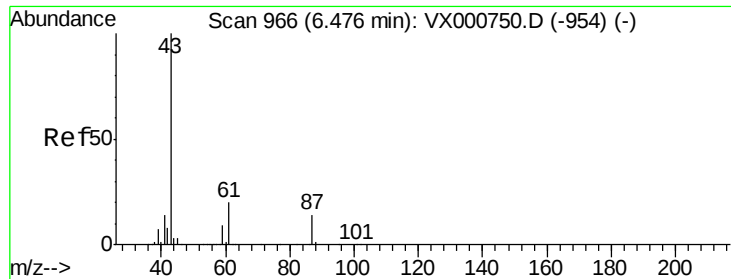
#38
 Carbon Tetrachloride
 Concen: 4.96 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX000785.D
 Acq: 11 Apr 2018 18:04

Tgt Ion: 117 Resp: 26054
 Ion Ratio Lower Upper
 117 100
 119 5.1 78.4 117.6#
 121 0.0 25.4 38.0#



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: 0.32 ug/l

RT: 6.48 min Scan# 966

Delta R.T. -0.00 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

RB36275

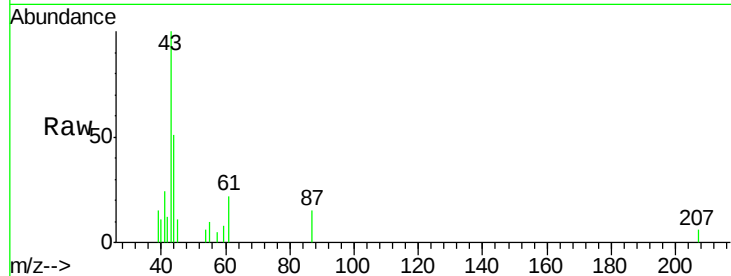
Tgt Ion: 43 Resp: 2526

Ion Ratio Lower Upper

43 100

61 18.2 15.6 23.4

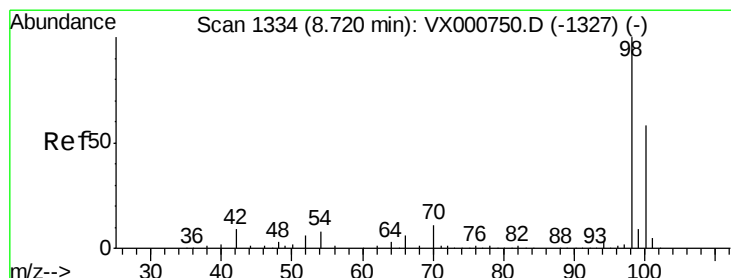
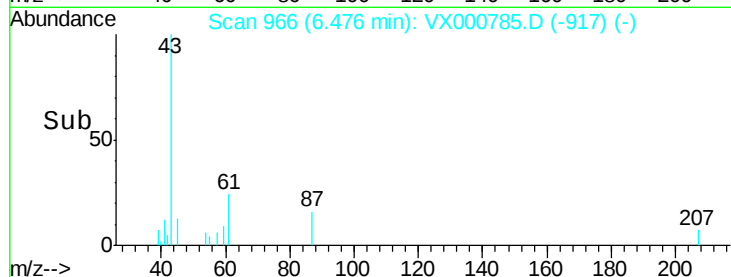
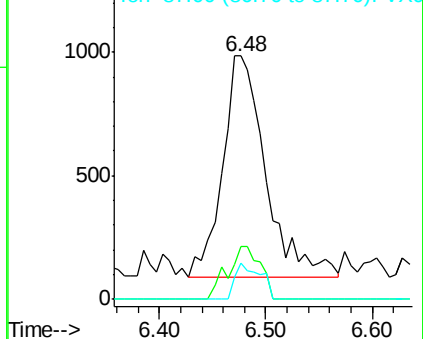
87 9.6 10.7 16.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#50

Toluene-d8

Concen: 40.37 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX000785.D

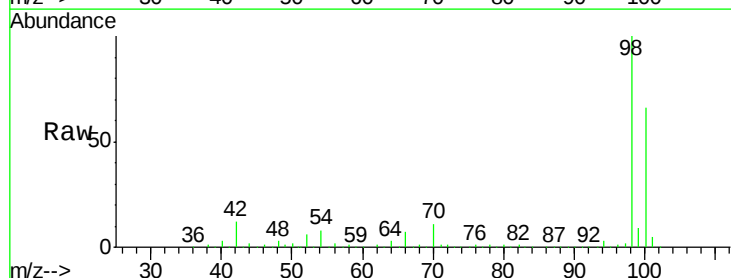
Acq: 11 Apr 2018 18:04

Tgt Ion: 98 Resp: 493312

Ion Ratio Lower Upper

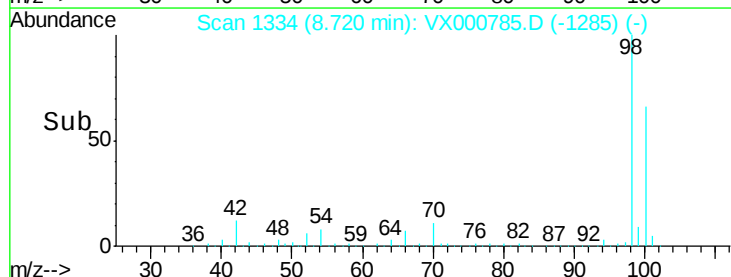
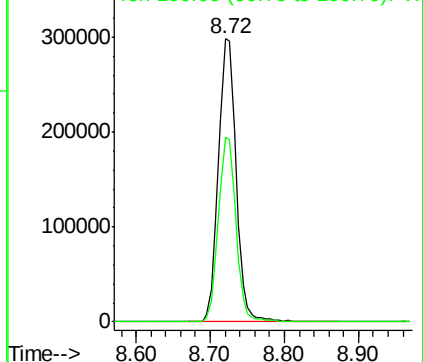
98 100

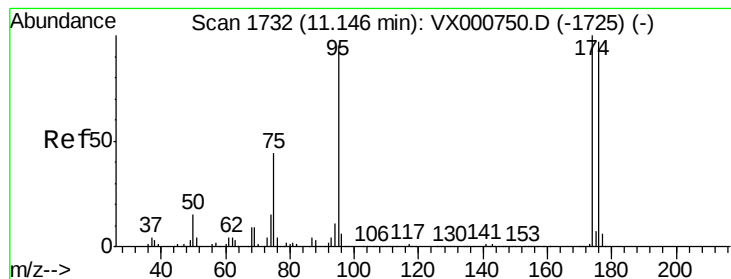
100 64.7 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 39.46 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

RB36275

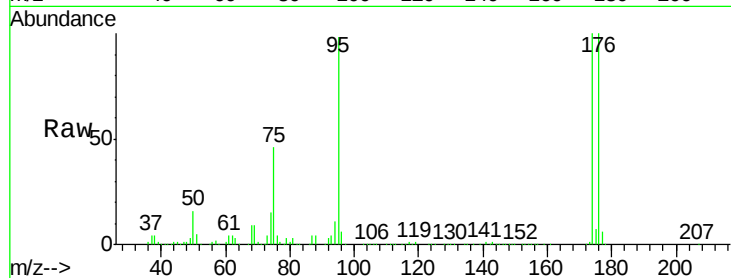
Tgt Ion: 95 Resp: 199499

Ion Ratio Lower Upper

95 100

174 98.3 0.0 198.4

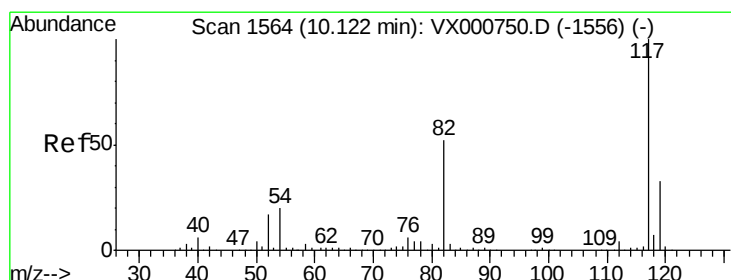
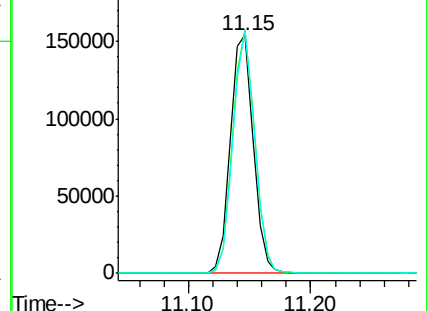
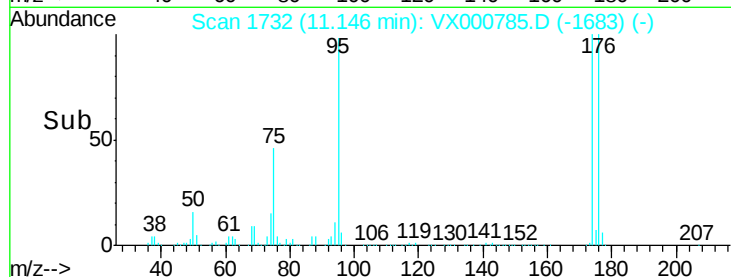
176 96.8 0.0 194.4



Abundance Ion 94.90 (94.60 to 95.60): VX000785.D (-1683) (-)

Ion 173.80 (173.50 to 174.50): VX000785.D (-1683) (-)

Ion 175.80 (175.50 to 176.50): VX000785.D (-1683) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

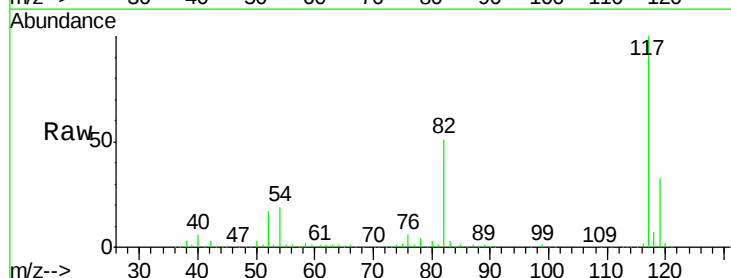
Tgt Ion: 117 Resp: 399641

Ion Ratio Lower Upper

117 100

82 51.1 41.9 62.9

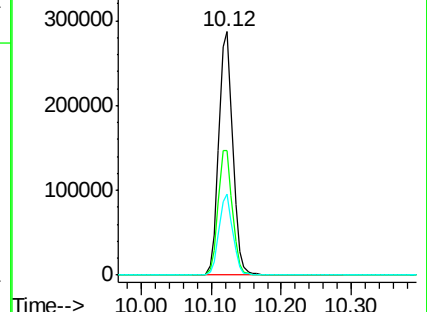
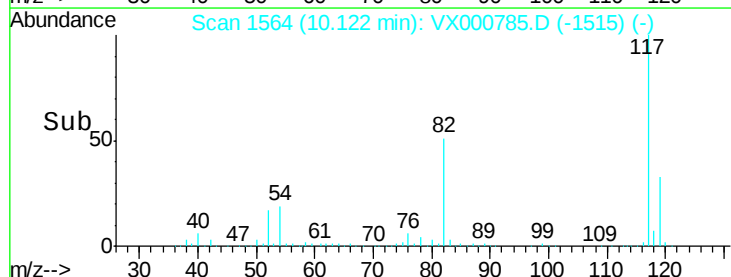
119 33.2 26.0 39.0

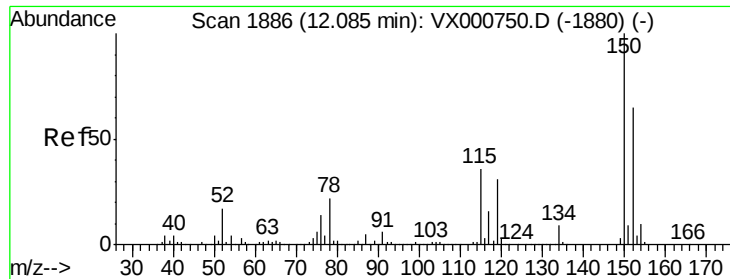


Abundance Ion 116.90 (116.60 to 117.60): VX000785.D (-1515) (-)

Ion 82.00 (81.70 to 82.70): VX000785.D (-1515) (-)

Ion 118.90 (118.60 to 119.60): VX000785.D (-1515) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

Instrument :

MSVOA_X

ClientSampleId :

RB36275

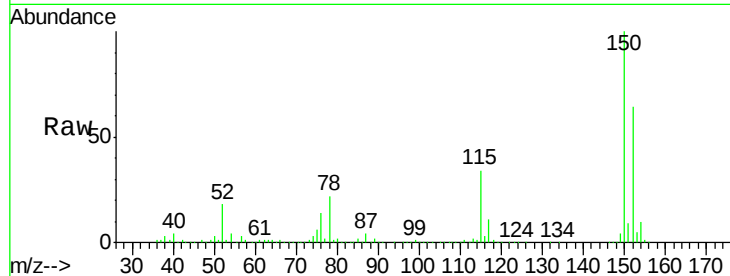
Tgt Ion:152 Resp: 239129

Ion Ratio Lower Upper

152 100

115 53.8 37.9 113.7

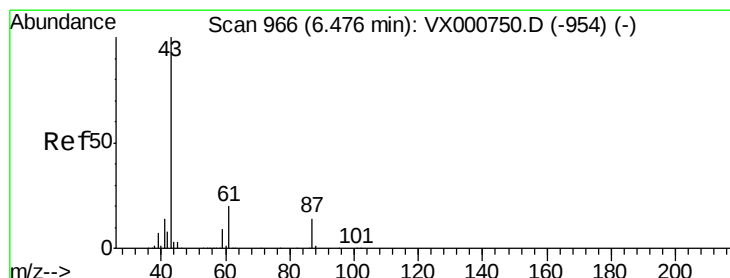
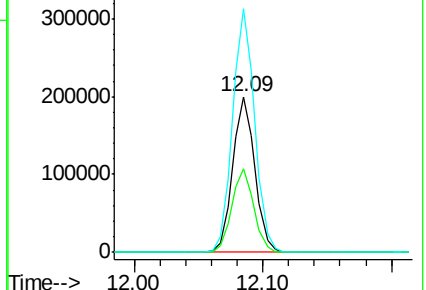
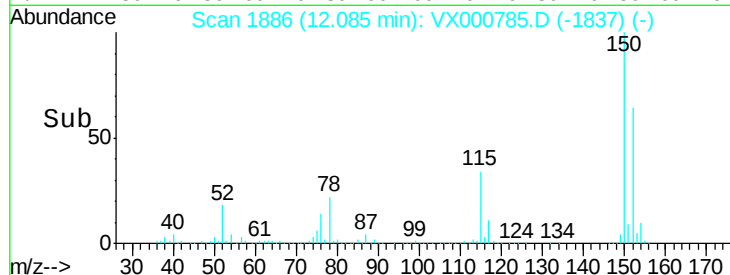
150 156.5 0.0 348.0



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



#74

N-ethyl acetate

Concen: 0.37 ug/l

RT: 6.48 min Scan# 966

Delta R.T. -0.00 min

Lab File: VX000785.D

Acq: 11 Apr 2018 18:04

Tgt Ion: 43 Resp: 2526

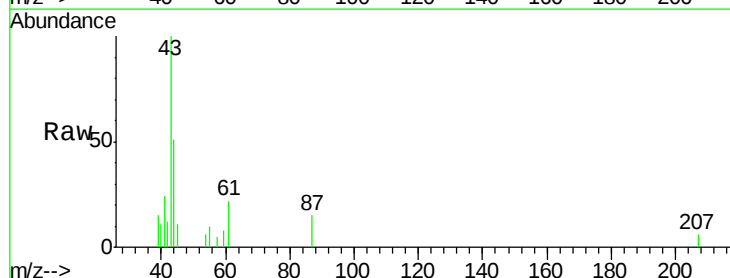
Ion Ratio Lower Upper

43 100

70 2.7 0.0 0.0#

55 3.0 0.0 0.0#

61 18.2 15.6 23.4

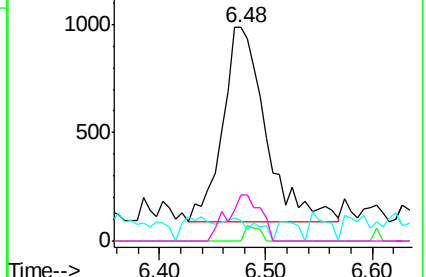
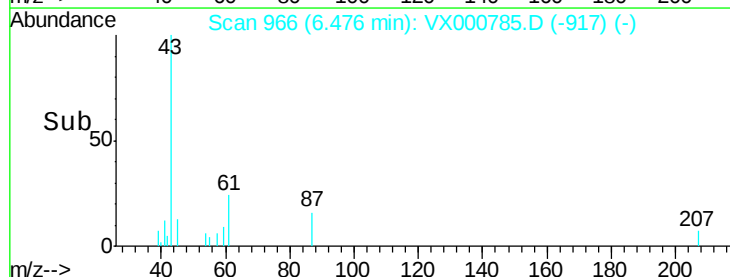


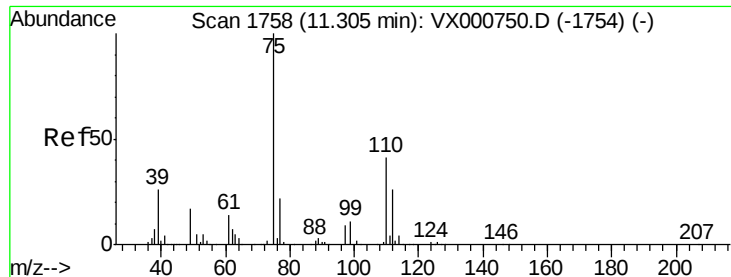
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

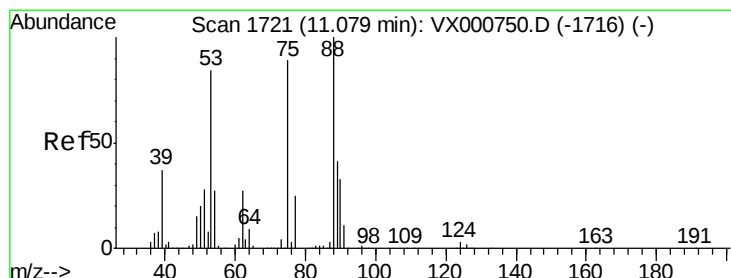
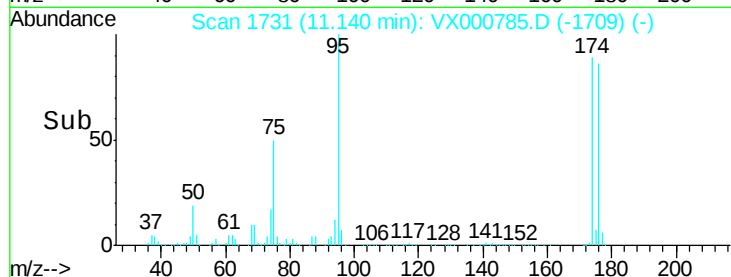
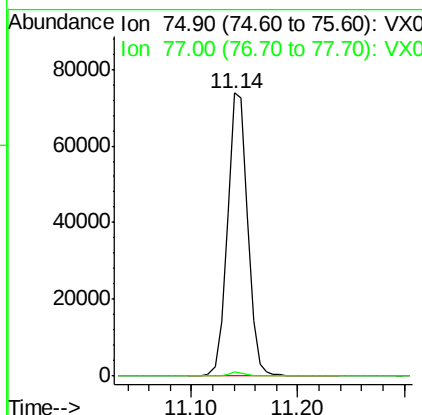
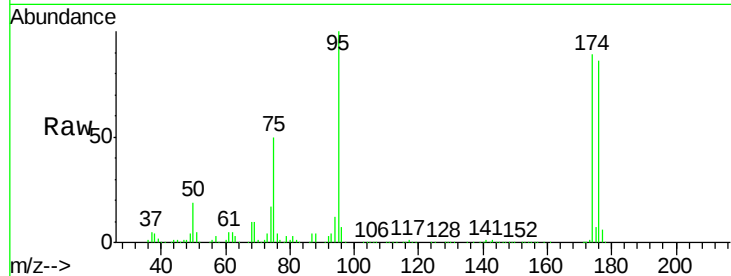




#76
 1,2,3-Trichloropropane
 Concen: 23.74 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX000785.D
 Acq: 11 Apr 2018 18:04

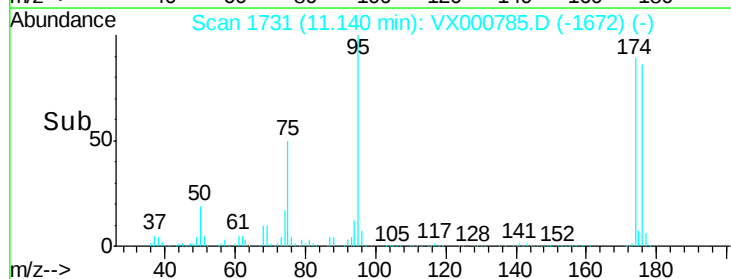
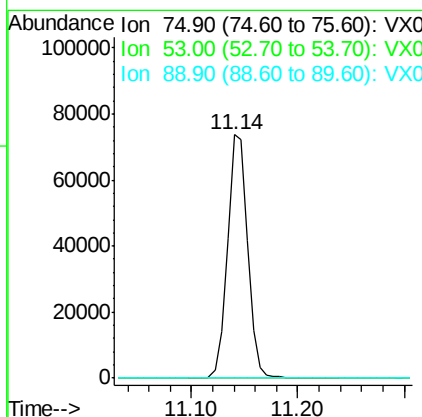
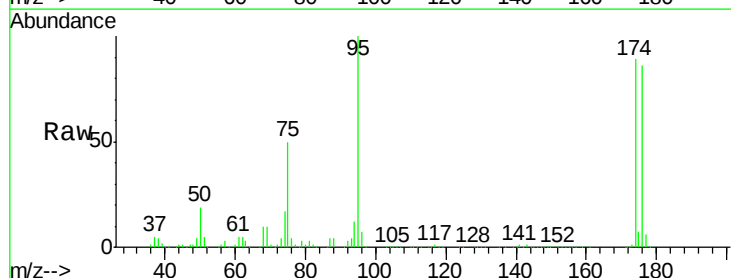
Instrument :
 MSVOA_X
 ClientSampled :
 RB36275

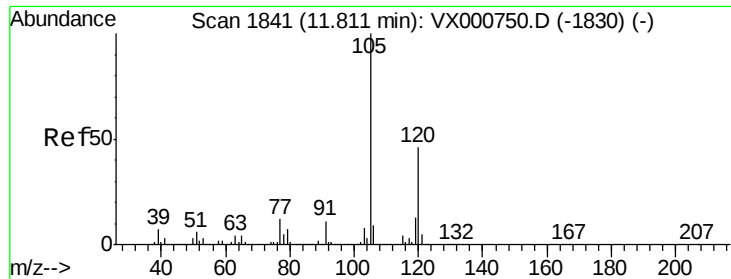
Tgt Ion: 75 Resp: 97909
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.5 61.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.31 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX000785.D
 Acq: 11 Apr 2018 18:04

Tgt Ion: 75 Resp: 97909
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 40.9 61.3#

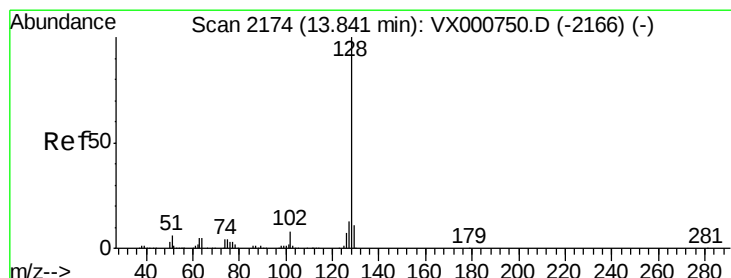
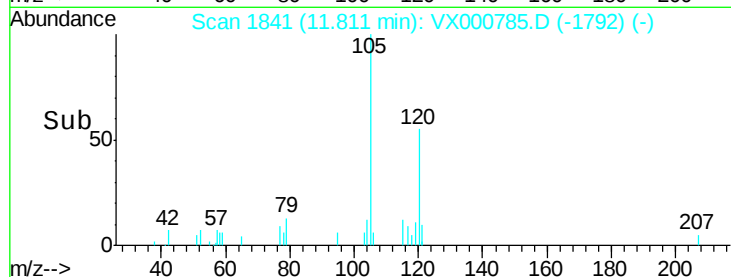
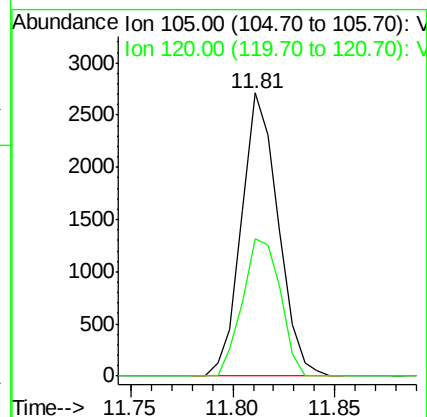
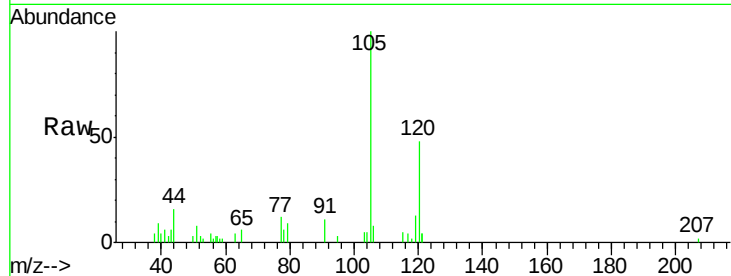




#84
 1,2,4-Trimethylbenzene
 Concen: 0.25 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. -0.00 min
 Lab File: VX000785.D
 Acq: 11 Apr 2018 18:04

Instrument :
 MSVOA_X
 ClientSampleId :
 RB36275

Tgt Ion:105 Resp: 3380
 Ion Ratio Lower Upper
 105 100
 120 50.0 23.1 69.3



#95
 Naphthalene
 Concen: 2.82 ug/l
 RT: 13.84 min Scan# 2174
 Delta R.T. -0.00 min
 Lab File: VX000785.D
 Acq: 11 Apr 2018 18:04

Tgt Ion:128 Resp: 48993
 Ion Ratio Lower Upper
 128 100
 127 13.1 10.4 15.6
 129 11.6 8.7 13.1

