

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX032818\
 Data File : VX000486.D
 Acq On : 28 Mar 2018 14:09
 Operator : JC/MD
 Sample : J1754-14 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-032718-B

Quant Time: Mar 29 04:09:26 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	98652	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	174652	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	169955	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	85429	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	71938	55.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.72%	
35) Dibromofluoromethane	5.51	113	56589	51.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.84%	
50) Toluene-d8	8.73	98	222832	48.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.78%	
62) 4-Bromofluorobenzene	11.15	95	74216	39.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.90%	

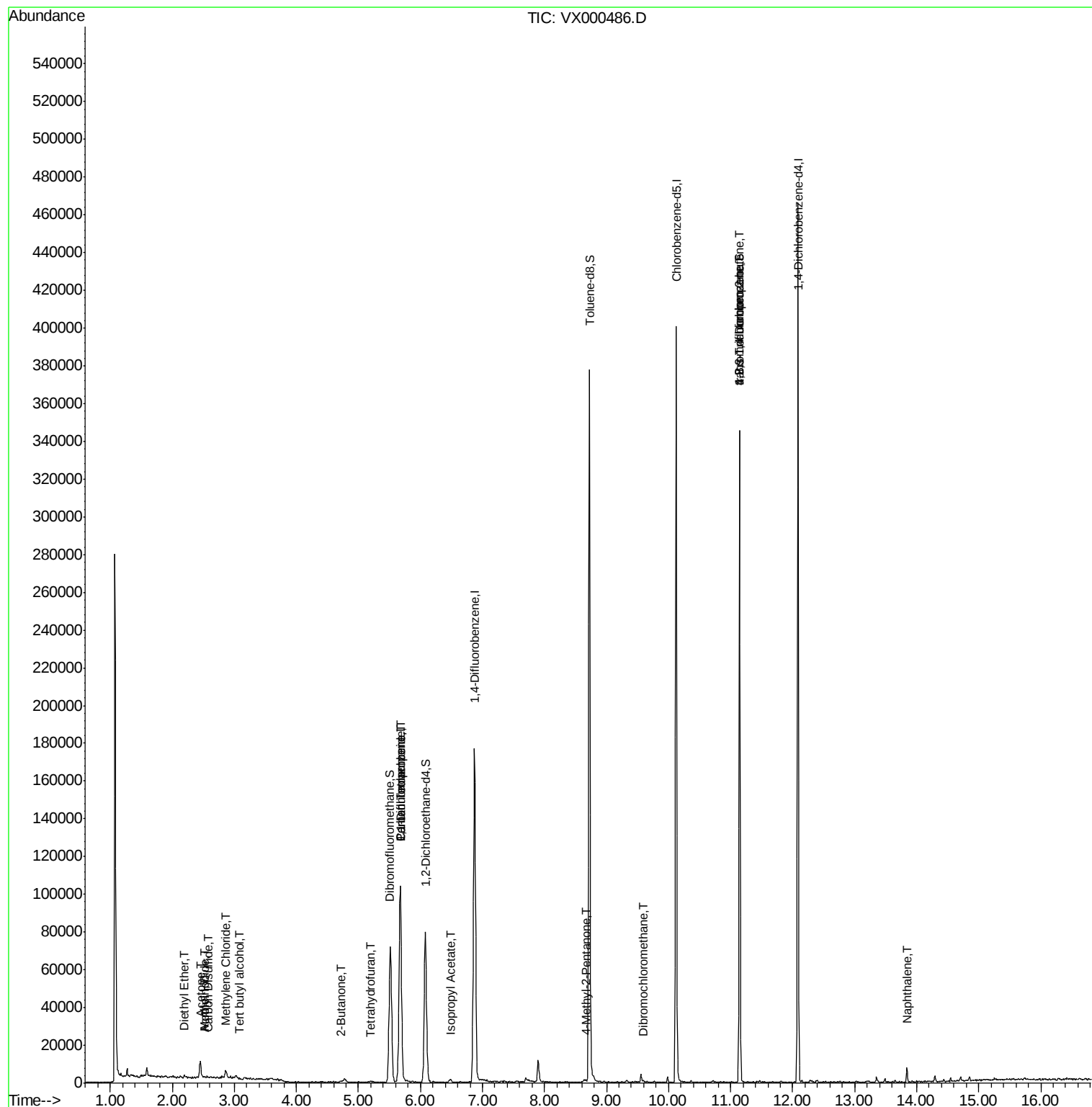
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.72	64	208	Below Cal	#	44
8) Diethyl Ether	2.19	74	467	0.60	ug/l	75
10) Methyl Iodide	2.52	142	95	4.35	ug/l	# 37
11) Tert butyl alcohol	3.09	59	182	0.41	ug/l	# 72
13) Acrolein	2.53	56	20	14.71	ug/l	# 1
16) Acetone	2.45	43	10035	9.37	ug/l	98
17) Carbon Disulfide	2.57	76	623	0.23	ug/l	# 59
20) Methylene Chloride	2.86	84	1770	1.43	ug/l	# 84
25) 2-Butanone	4.73	43	1611	1.34	ug/l	# 82
29) Tetrahydrofuran	5.19	42	555	0.75	ug/l	# 45
36) 1,1-Dichloropropene	5.67	75	7684	4.70	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	9790	5.70	ug/l	# 14
43) Isopropyl Acetate	6.48	43	2171	0.65	ug/l	# 80
51) 4-Methyl-2-Pentanone	8.66	43	1215	0.47	ug/l	# 81
60) Dibromochloromethane	9.60	129	27	4.13	ug/l	# 12
74) N-amyl acetate	6.48	43	2171	Below Cal	#	86
76) 1,2,3-Trichloropropane	11.15	75	42371	23.08	ug/l	# 35
81) trans-1,4-Dichloro-2-buten	11.15	75	42371	74.72	ug/l	# 9
95) Naphthalene	13.84	128	3984	0.57	ug/l	# 94

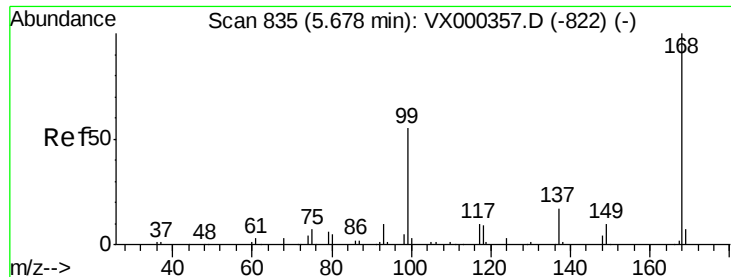
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000486.D

Acq: 28 Mar 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

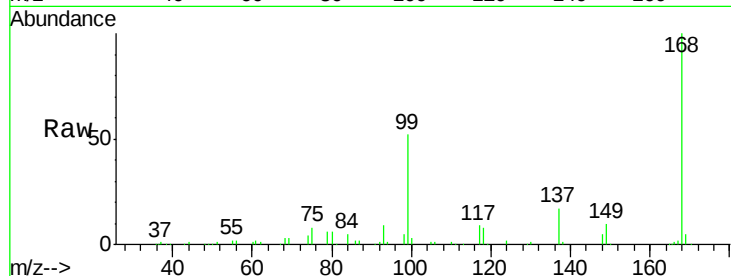
CL-02-032718-B

Tgt Ion:168 Resp: 98652

Ion Ratio Lower Upper

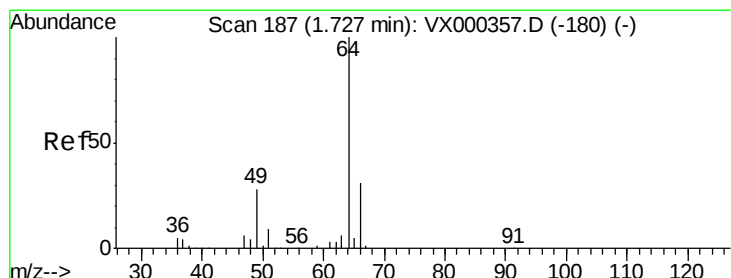
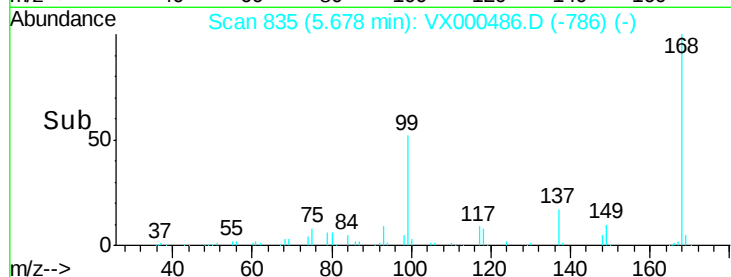
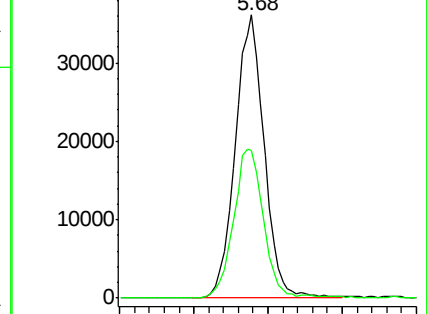
168 100

99 52.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX000486.D

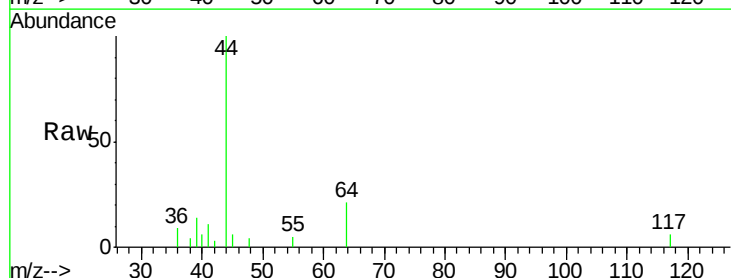
Acq: 28 Mar 2018 14:09

Tgt Ion: 64 Resp: 208

Ion Ratio Lower Upper

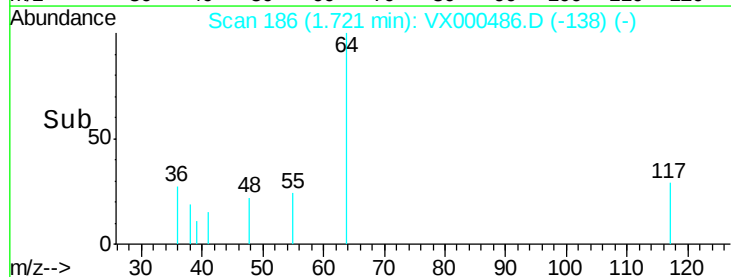
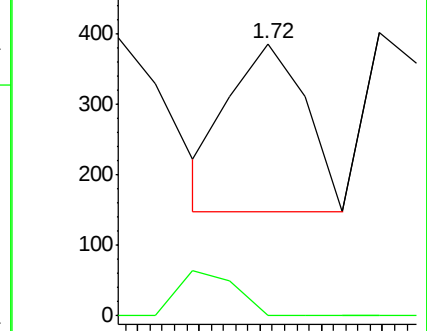
64 100

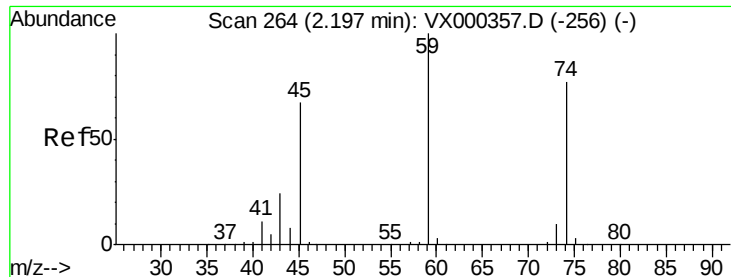
66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

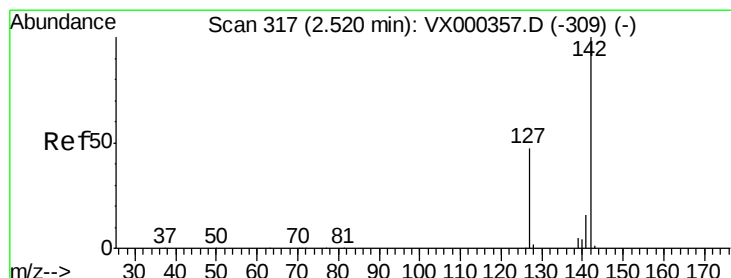
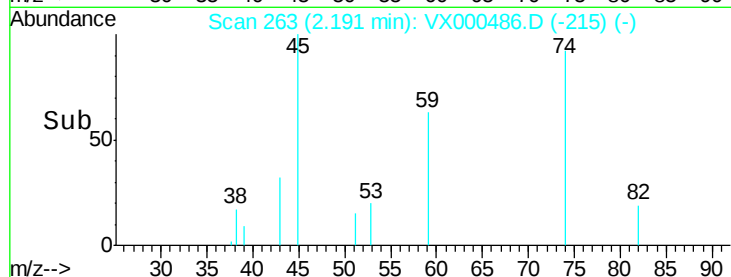
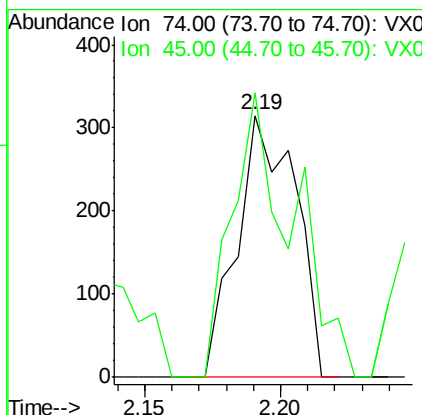
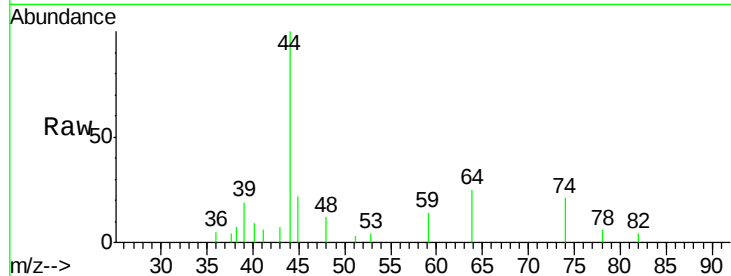




#8
 Diethyl Ether
 Concen: 0.60 ug/l
 RT: 2.19 min Scan# 263
 Delta R.T. -0.01 min
 Lab File: VX000486.D
 Acq: 28 Mar 2018 14:09

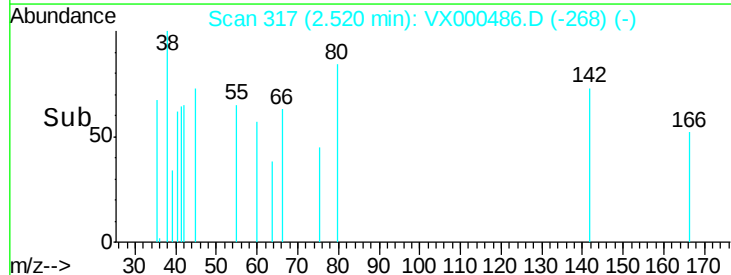
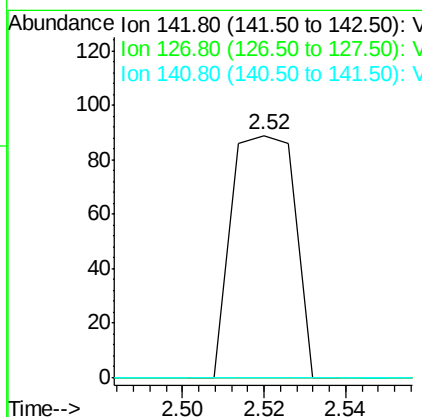
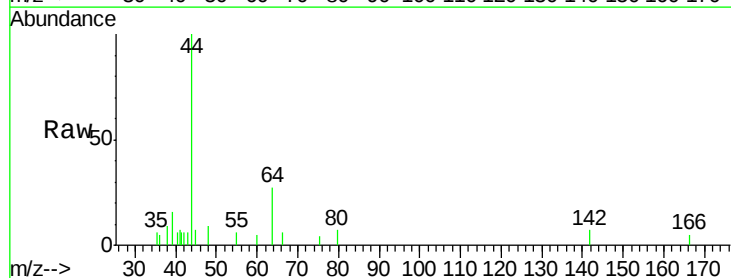
Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-032718-B

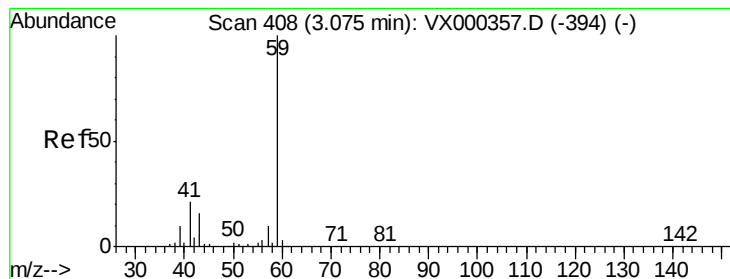
Tgt Ion: 74 Resp: 467
 Ion Ratio Lower Upper
 74 100
 45 114.1 45.1 135.3



#10
 Methyl Iodide
 Concen: 4.35 ug/l
 RT: 2.52 min Scan# 317
 Delta R.T. 0.00 min
 Lab File: VX000486.D
 Acq: 28 Mar 2018 14:09

Tgt Ion: 142 Resp: 95
 Ion Ratio Lower Upper
 142 100
 127 0.0 39.2 58.8#
 141 0.0 11.7 17.5#





#11

Tert butyl alcohol

Concen: 0.41 ug/l

RT: 3.09 min Scan# 410

Delta R.T. 0.01 min

Lab File: VX000486.D

Acq: 28 Mar 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

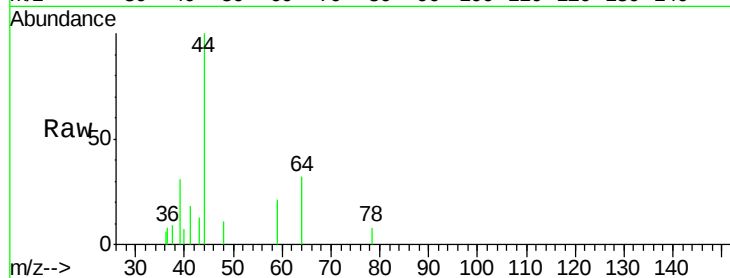
CL-02-032718-B

Tgt Ion: 59 Resp: 182

Ion Ratio Lower Upper

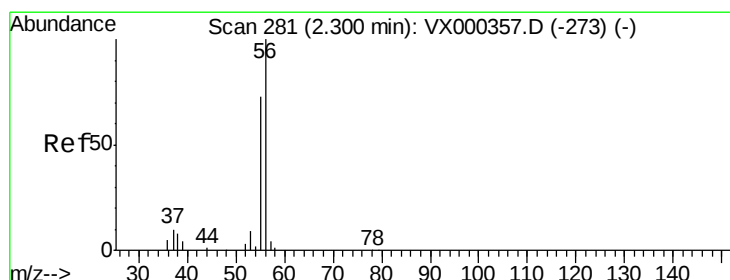
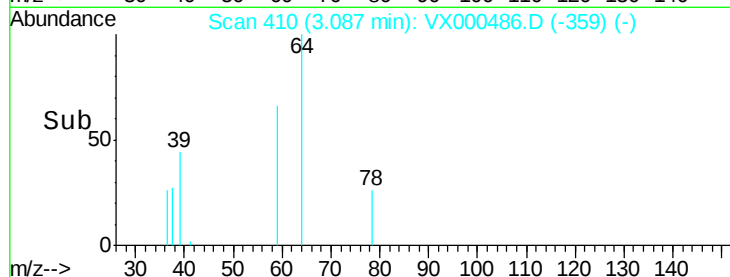
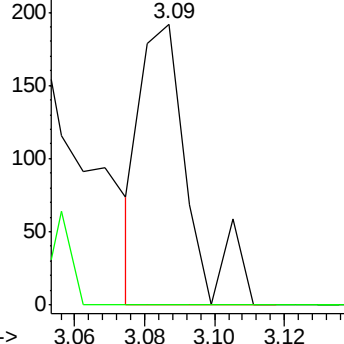
59 100

57 0.0 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: 14.71 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.23 min

Lab File: VX000486.D

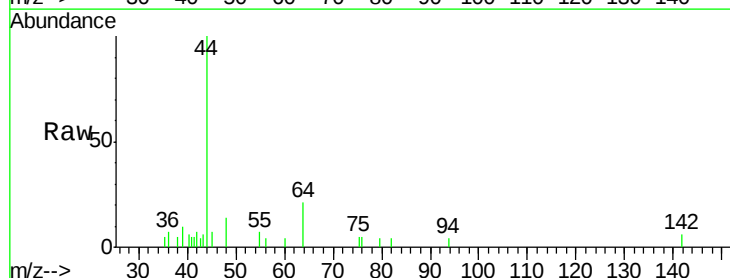
Acq: 28 Mar 2018 14:09

Tgt Ion: 56 Resp: 20

Ion Ratio Lower Upper

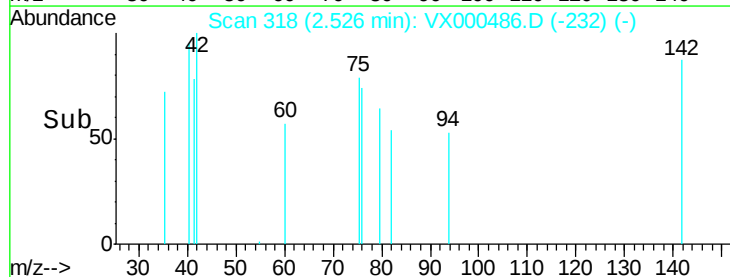
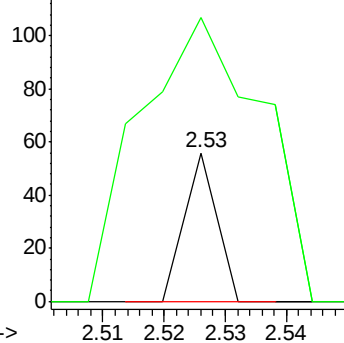
56 100

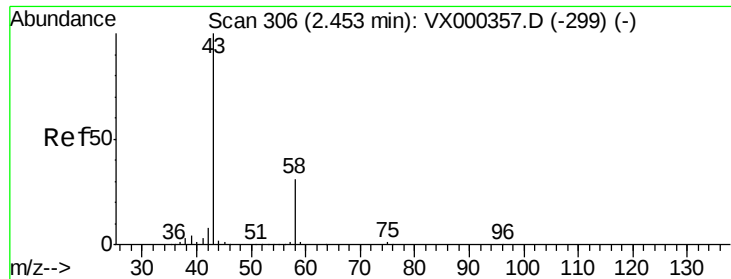
55 740.0 58.8 88.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 9.37 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000486.D

Acq: 28 Mar 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

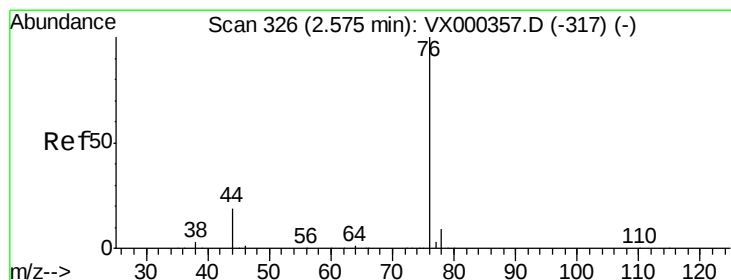
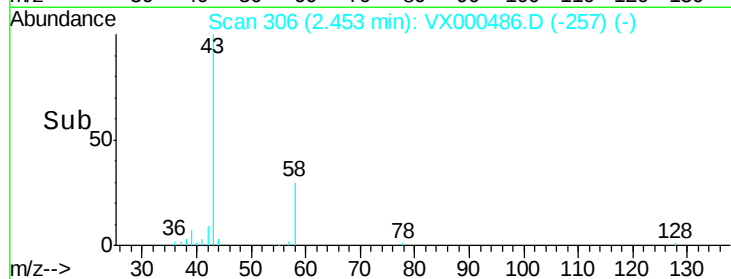
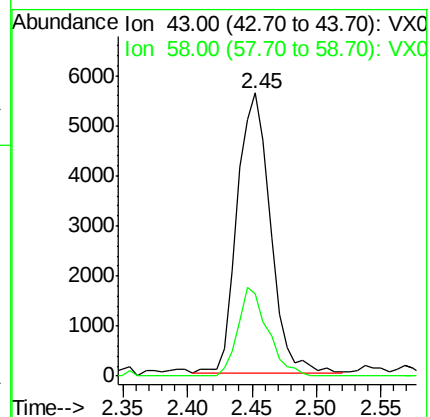
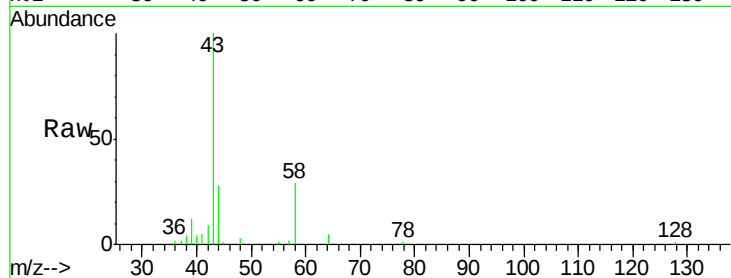
CL-02-032718-B

Tgt Ion: 43 Resp: 10035

Ion Ratio Lower Upper

43 100

58 29.6 24.7 37.1



#17

Carbon Disulfide

Concen: 0.23 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX000486.D

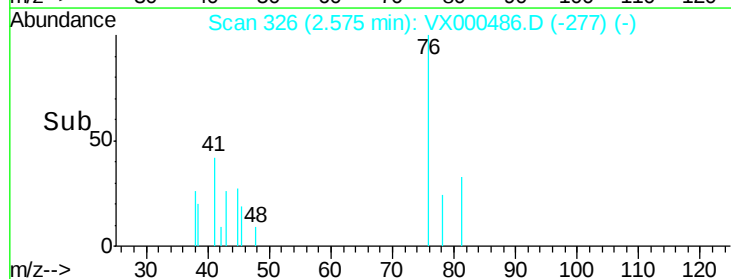
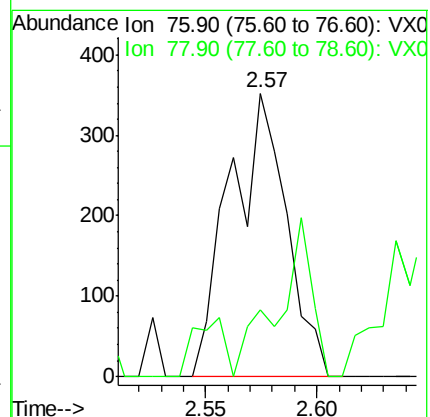
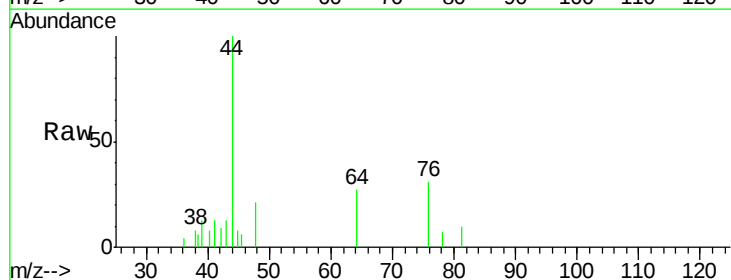
Acq: 28 Mar 2018 14:09

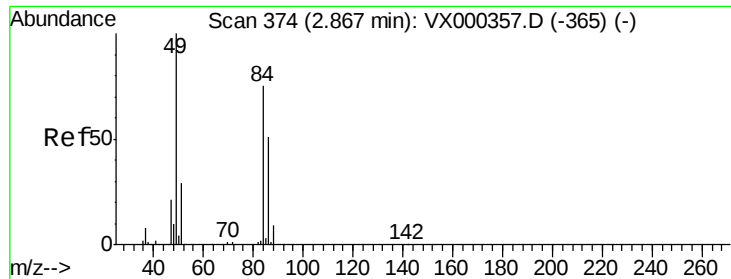
Tgt Ion: 76 Resp: 623

Ion Ratio Lower Upper

76 100

78 23.6 7.0 10.6#





#20

Methylene Chloride

Concen: 1.43 ug/l

RT: 2.86 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX000486.D

Acq: 28 Mar 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

CL-02-032718-B

Tgt Ion: 84 Resp: 1770

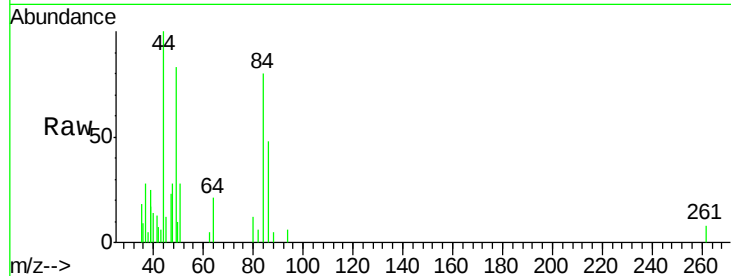
Ion Ratio Lower Upper

84 100

49 104.0 100.6 151.0

51 27.3 31.6 47.4#

86 60.3 52.6 78.8

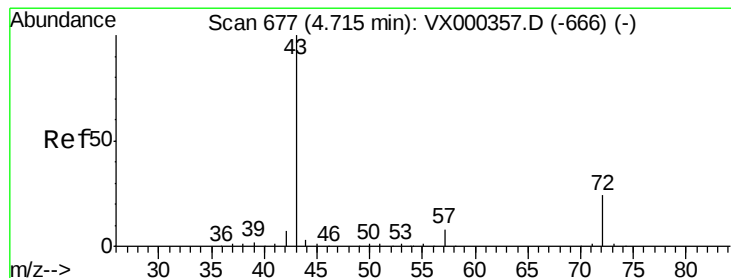
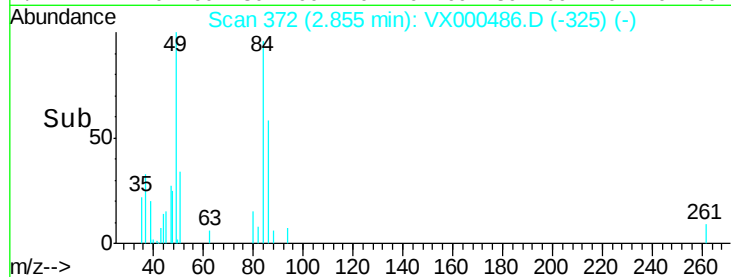
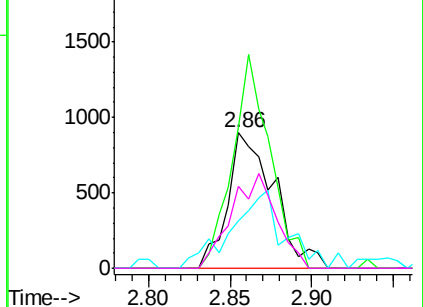


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 1.34 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX000486.D

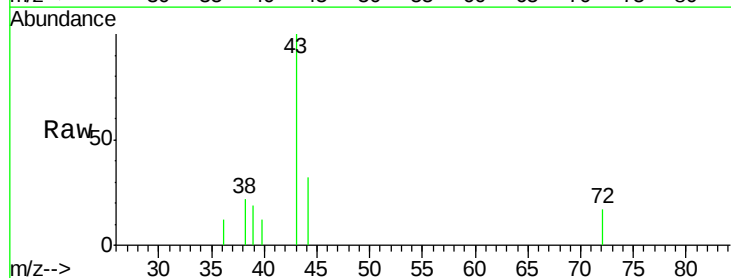
Acq: 28 Mar 2018 14:09

Tgt Ion: 43 Resp: 1611

Ion Ratio Lower Upper

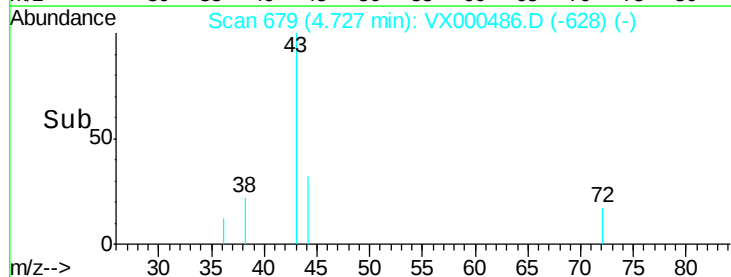
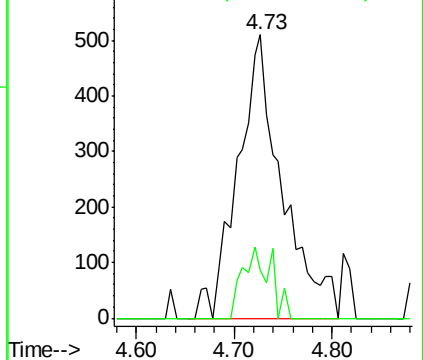
43 100

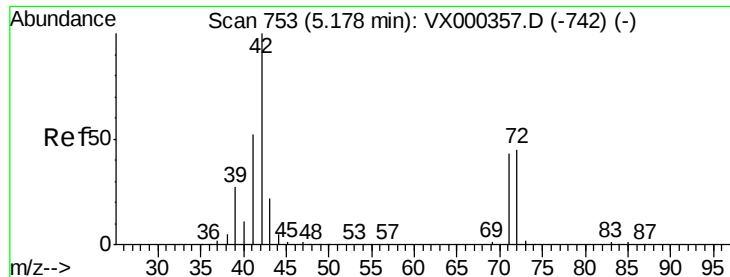
72 17.1 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

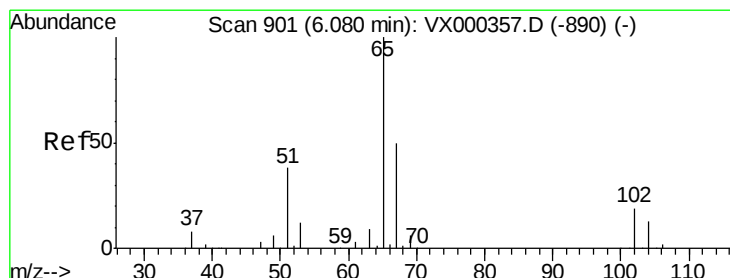
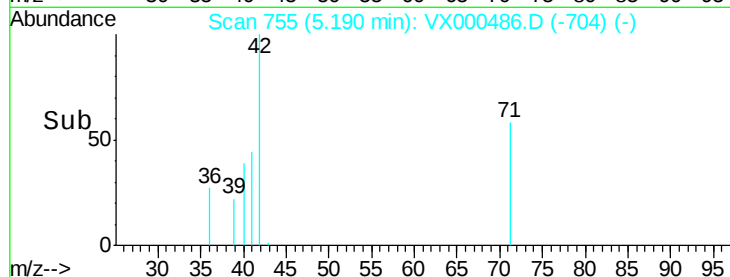
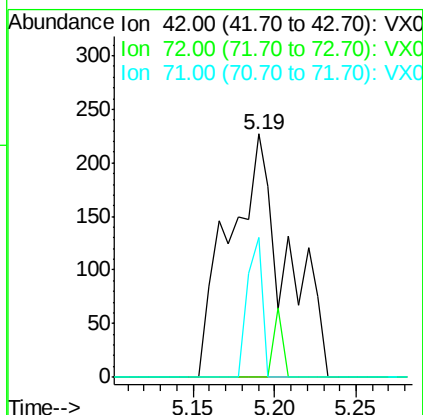
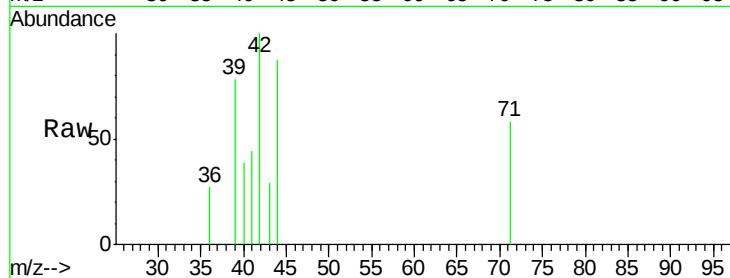




#29
Tetrahydrofuran
Concen: 0.75 ug/l
RT: 5.19 min Scan# 755
Delta R.T. 0.01 min
Lab File: VX000486.D
Acq: 28 Mar 2018 14:09

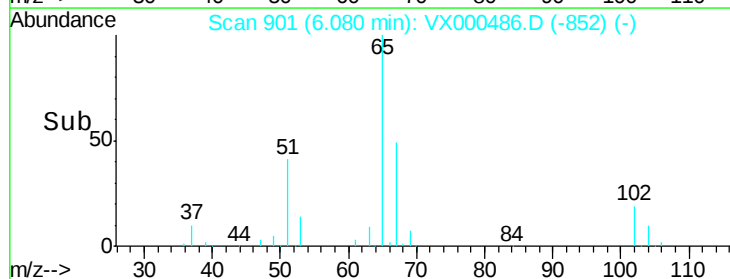
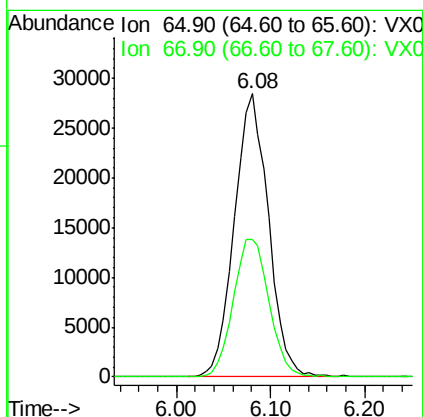
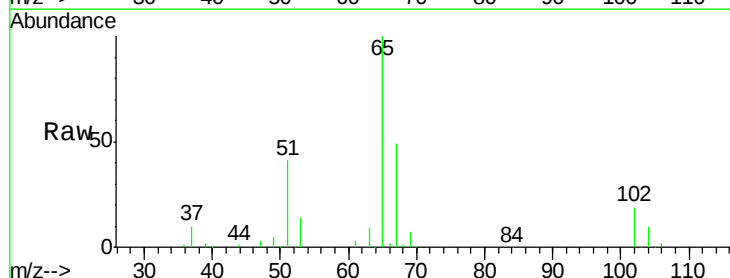
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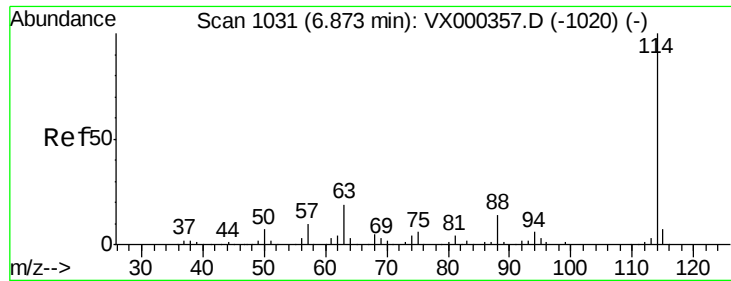
Tgt Ion: 42 Resp: 555
Ion Ratio Lower Upper
42 100
72 4.3 37.9 56.9#
71 15.0 34.4 51.6#



#33
1,2-Dichloroethane-d4
Concen: 55.86 ug/l
RT: 6.08 min Scan# 901
Delta R.T. 0.00 min
Lab File: VX000486.D
Acq: 28 Mar 2018 14:09

Tgt Ion: 65 Resp: 71938
Ion Ratio Lower Upper
65 100
67 51.1 0.0 103.2

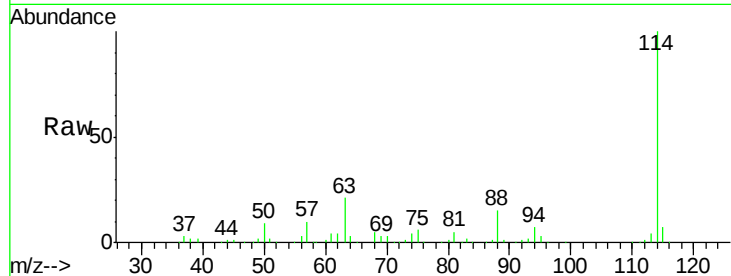




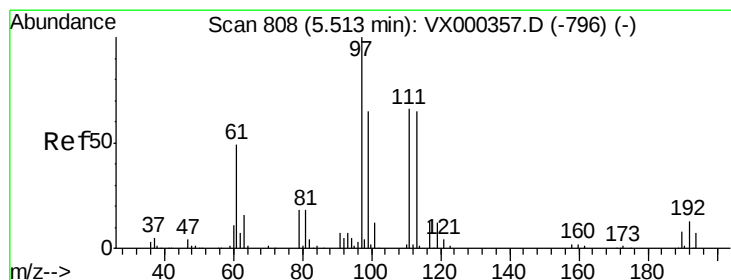
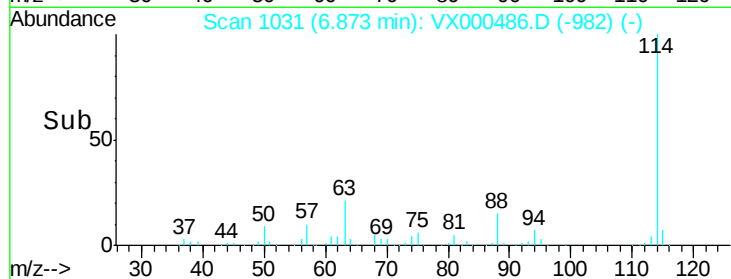
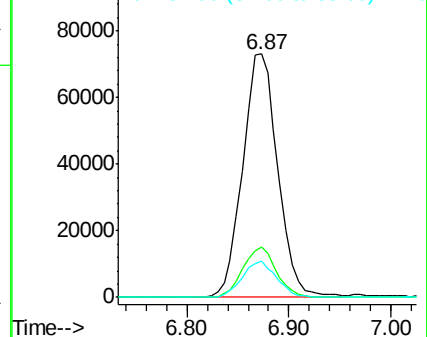
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VX000486.D
 Acq: 28 Mar 2018 14:09

Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-032718-B

Tgt Ion:114 Resp: 174652
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 38.4
 88 14.6 0.0 27.0

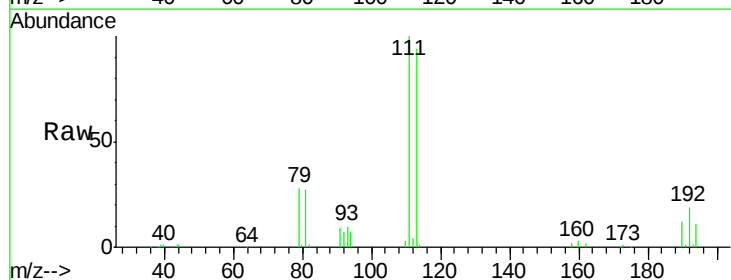


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

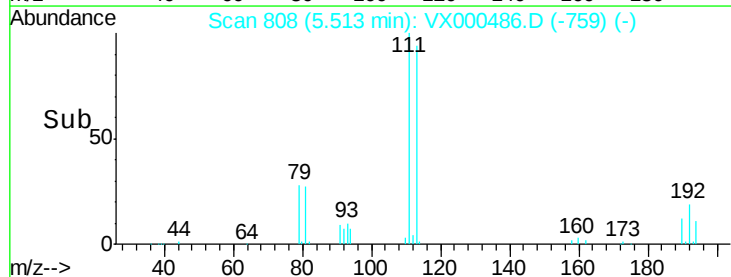
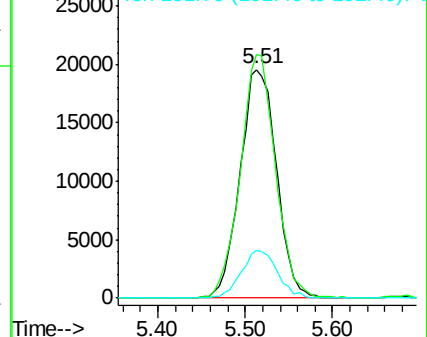


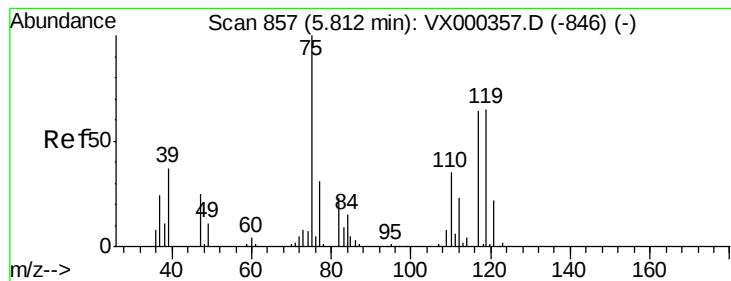
#35
 Dibromofluoromethane
 Concen: 51.42 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.00 min
 Lab File: VX000486.D
 Acq: 28 Mar 2018 14:09

Tgt Ion:113 Resp: 56589
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.4 123.6
 192 20.7 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: 4.70 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.14 min

Lab File: VX000486.D

Acq: 28 Mar 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

CL-02-032718-B

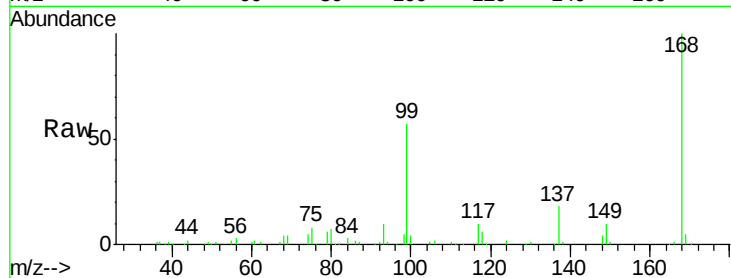
Tgt Ion: 75 Resp: 7684

Ion Ratio Lower Upper

75 100

110 7.7 17.9 53.7#

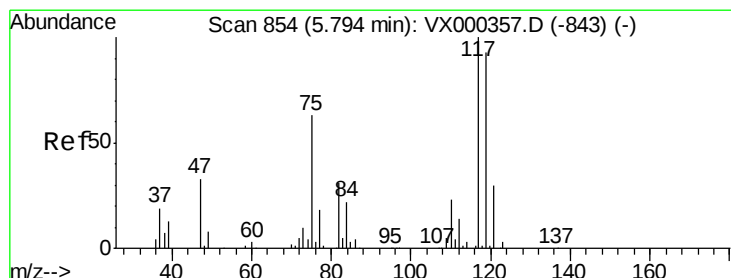
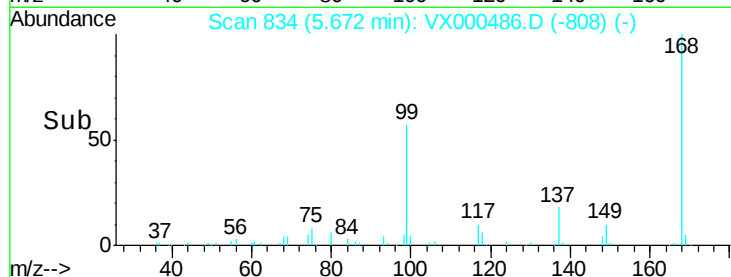
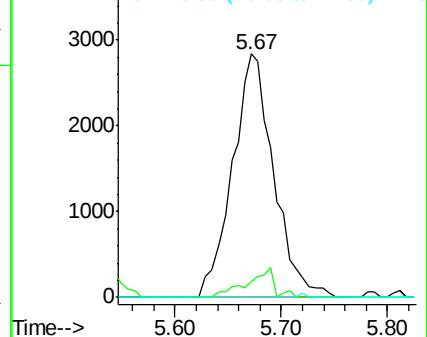
77 0.0 24.0 36.0#



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: 5.70 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX000486.D

Acq: 28 Mar 2018 14:09

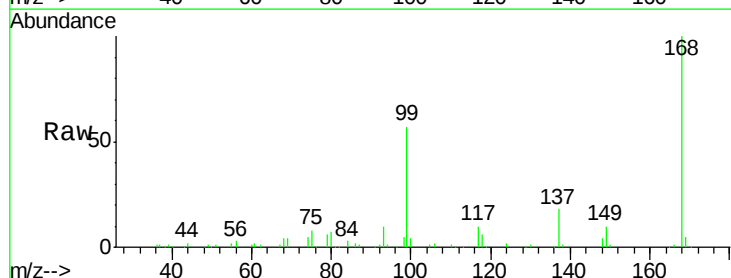
Tgt Ion: 117 Resp: 9790

Ion Ratio Lower Upper

117 100

119 3.3 77.4 116.2#

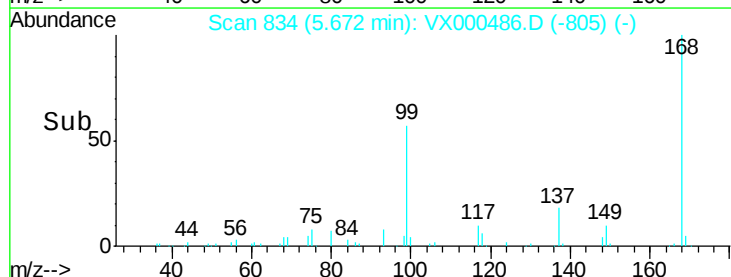
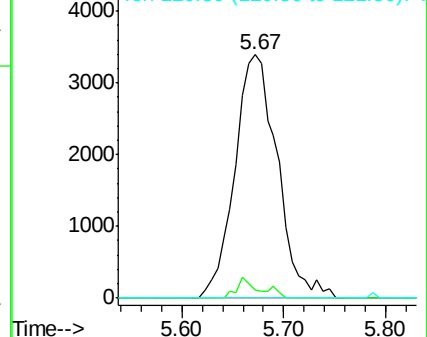
121 0.0 24.8 37.2#

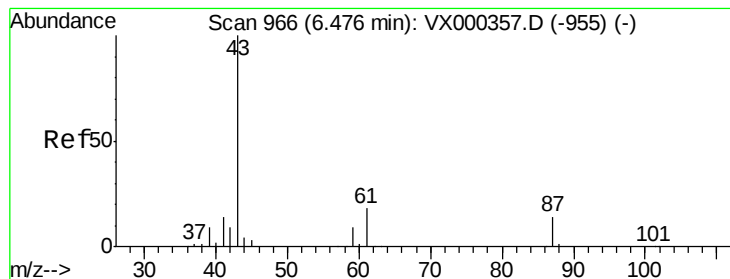


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 0.65 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000486.D

Acq: 28 Mar 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

CL-02-032718-B

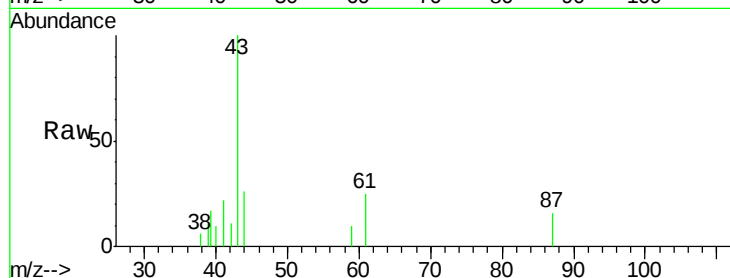
Tgt Ion: 43 Resp: 2171

Ion Ratio Lower Upper

43 100

61 6.5 14.4 21.6#

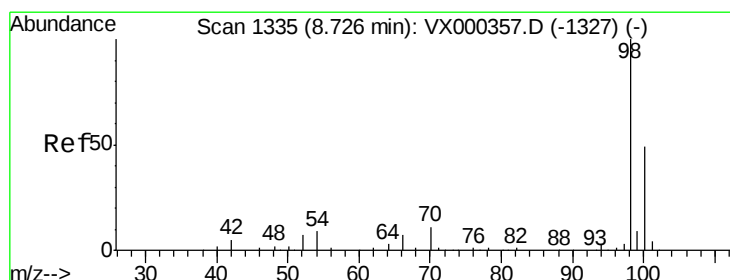
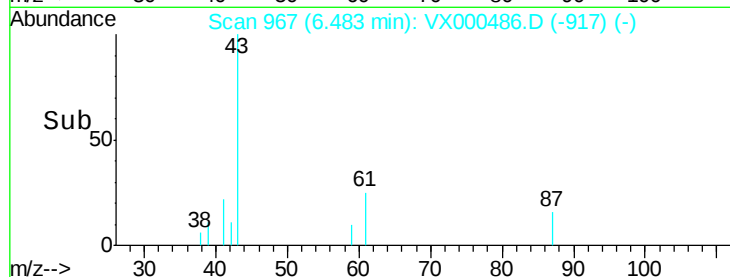
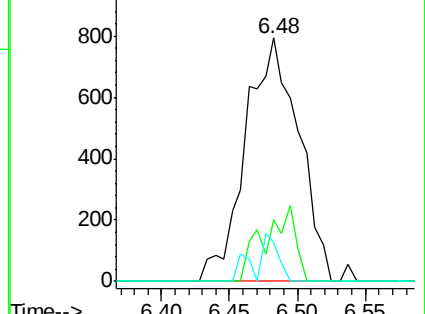
87 8.6 11.0 16.4#



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: 48.89 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000486.D

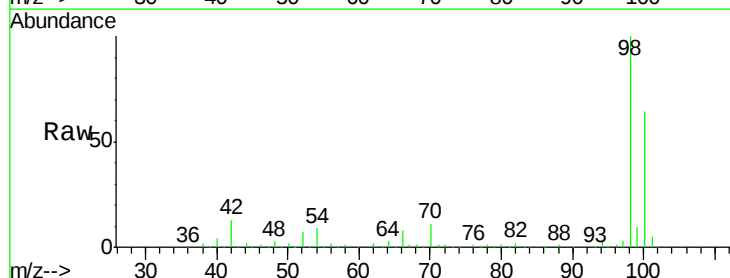
Acq: 28 Mar 2018 14:09

Tgt Ion: 98 Resp: 222832

Ion Ratio Lower Upper

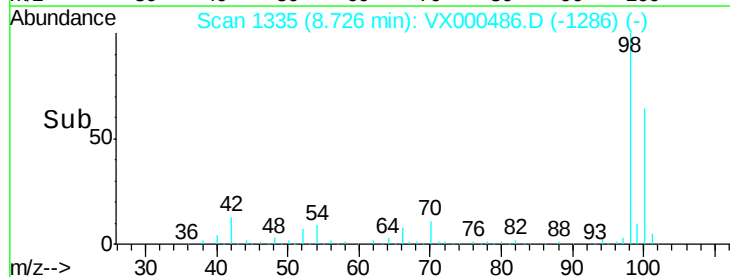
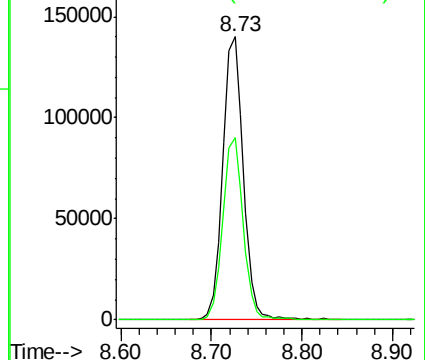
98 100

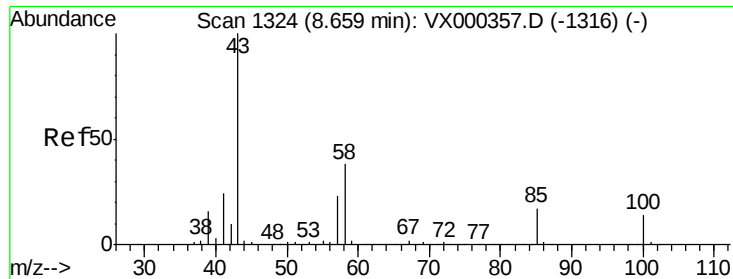
100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

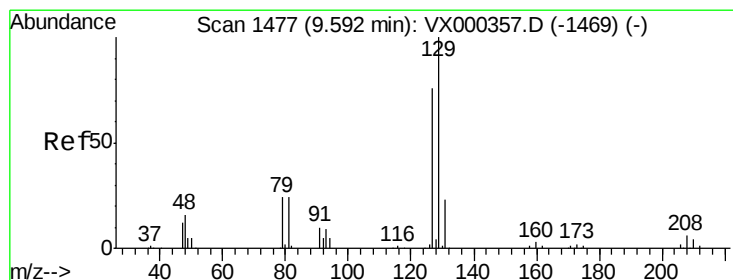
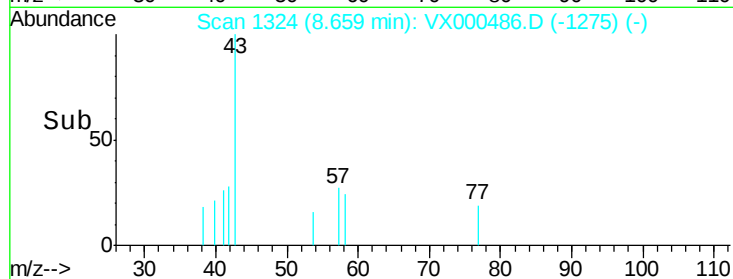
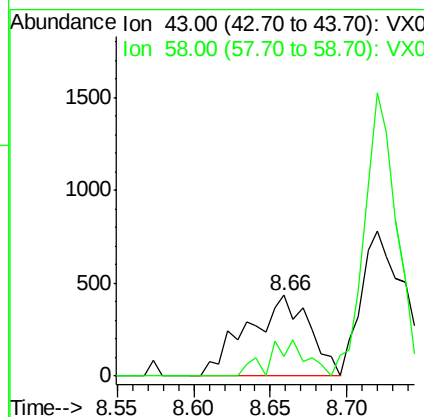
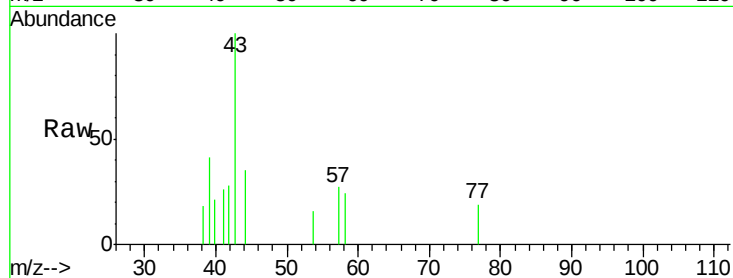




#51
 4-Methyl-2-Pentanone
 Concen: 0.47 ug/l
 RT: 8.66 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VX000486.D
 Acq: 28 Mar 2018 14:09

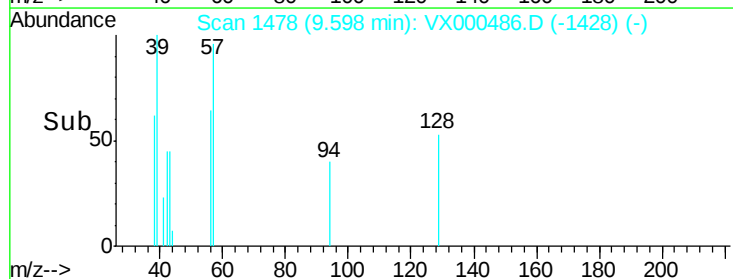
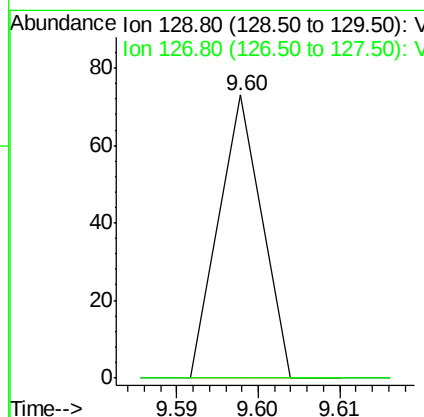
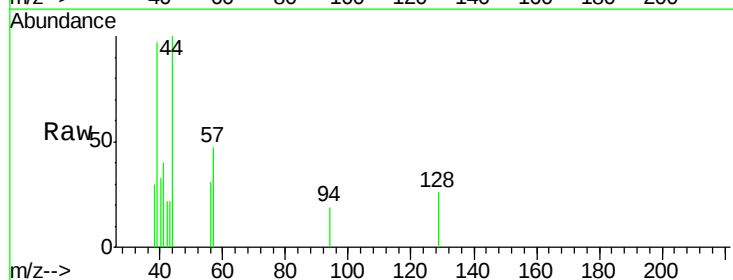
Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-032718-B

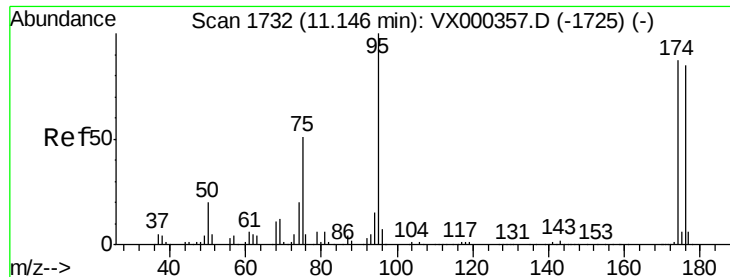
Tgt Ion: 43 Resp: 1215
 Ion Ratio Lower Upper
 43 100
 58 26.7 30.3 45.5#



#60
 Dibromochloromethane
 Concen: 4.13 ug/l
 RT: 9.60 min Scan# 1478
 Delta R.T. 0.01 min
 Lab File: VX000486.D
 Acq: 28 Mar 2018 14:09

Tgt Ion: 129 Resp: 27
 Ion Ratio Lower Upper
 129 100
 127 0.0 37.9 113.6#





#62

4-Bromofluorobenzene

Concen: 39.95 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000486.D

Acq: 28 Mar 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

CL-02-032718-B

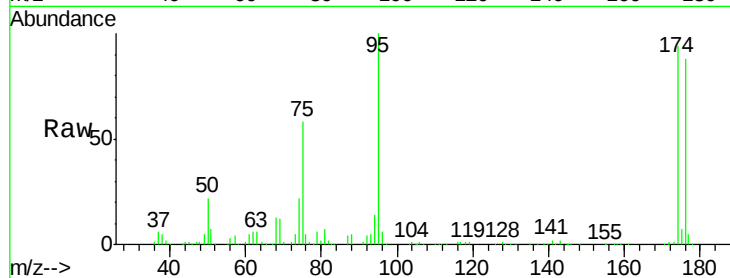
Tgt Ion: 95 Resp: 74216

Ion Ratio Lower Upper

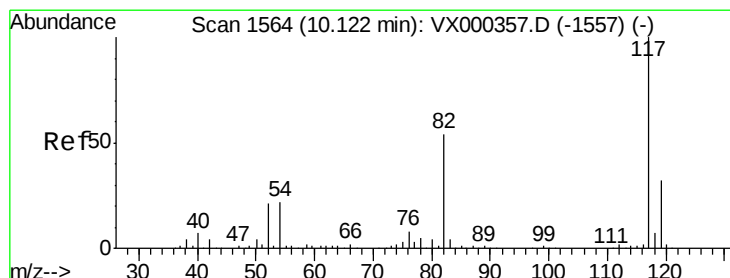
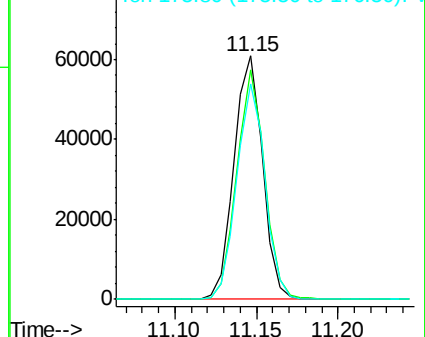
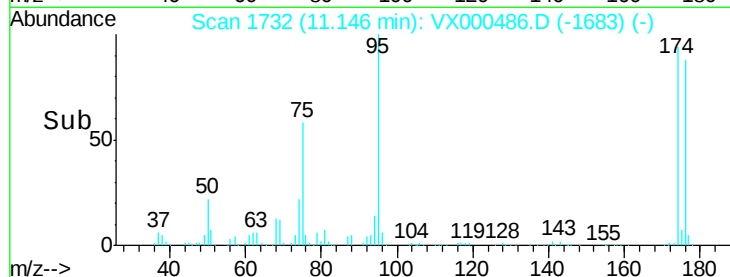
95 100

174 92.0 0.0 173.6

176 87.7 0.0 164.6



Abundance Ion 94.90 (94.60 to 95.60): VX000486.D (-1683) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VX000486.D

Acq: 28 Mar 2018 14:09

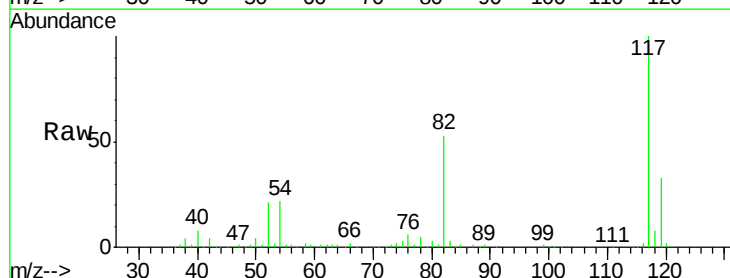
Tgt Ion: 117 Resp: 169955

Ion Ratio Lower Upper

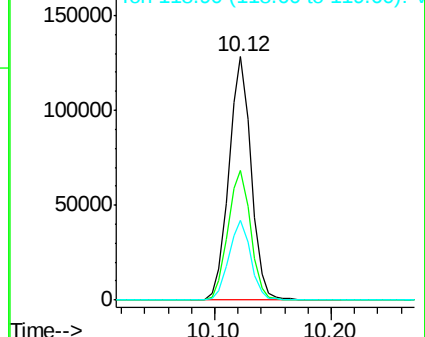
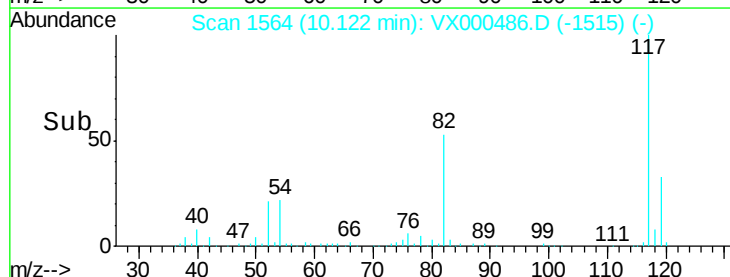
117 100

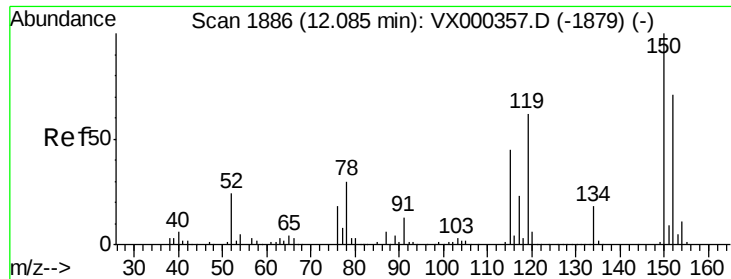
82 53.2 43.8 65.8

119 32.9 24.9 37.3



Abundance Ion 116.90 (116.60 to 117.60): VX000486.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: VX000486.D

Acq: 28 Mar 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

CL-02-032718-B

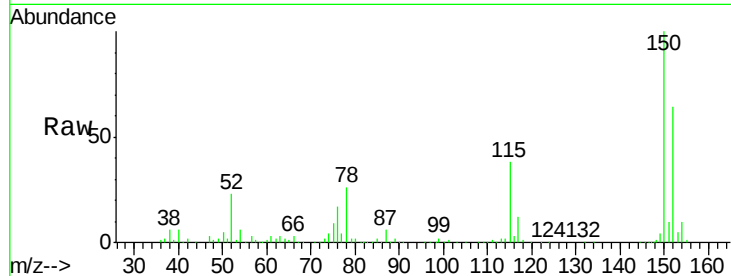
Tgt Ion:152 Resp: 85429

Ion Ratio Lower Upper

152 100

115 56.4 39.8 119.3

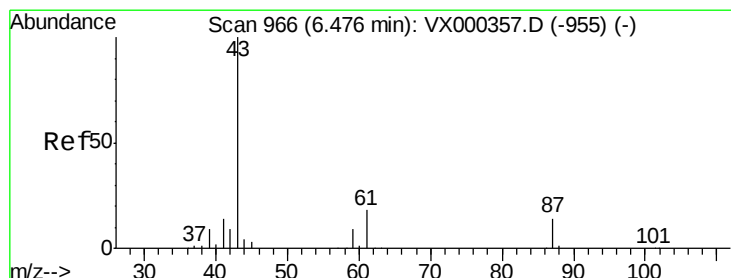
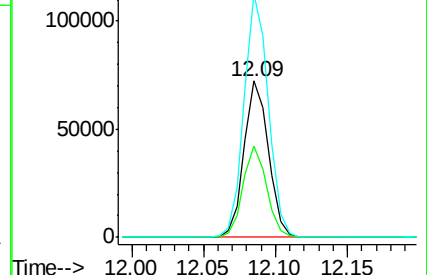
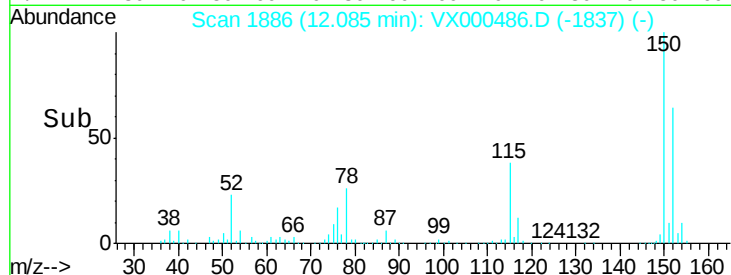
150 154.0 0.0 344.4



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-amil acetate

Concen: Below Cal

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000486.D

Acq: 28 Mar 2018 14:09

Tgt Ion: 43 Resp: 2171

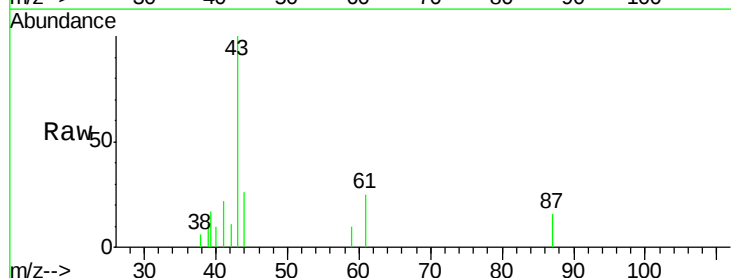
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 12.0 14.4 21.6#

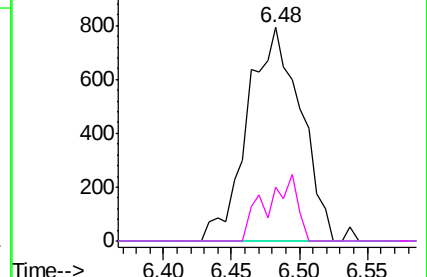
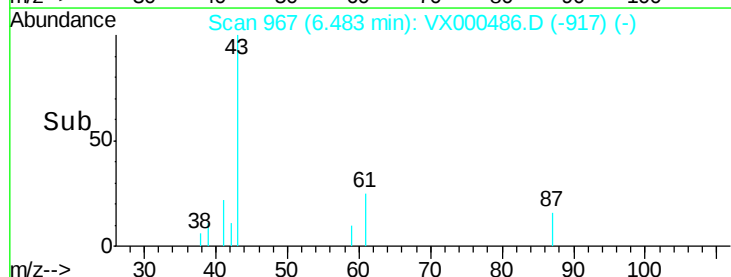


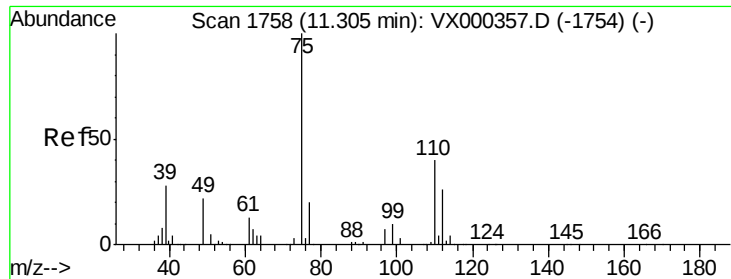
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 23.08 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000486.D

Acq: 28 Mar 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

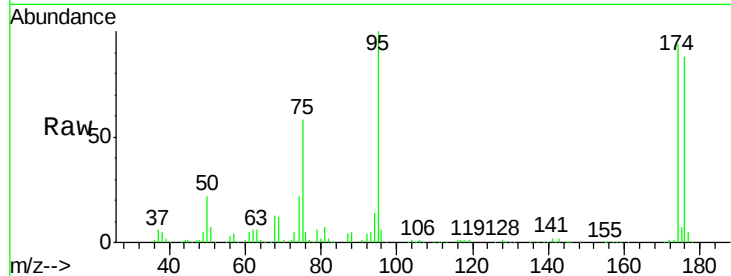
CL-02-032718-B

Tgt Ion: 75 Resp: 42371

Ion Ratio Lower Upper

75 100

77 1.3 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

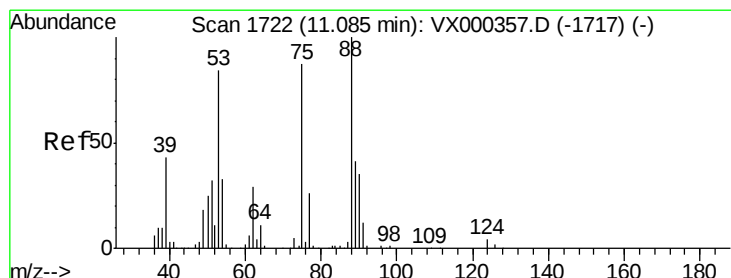
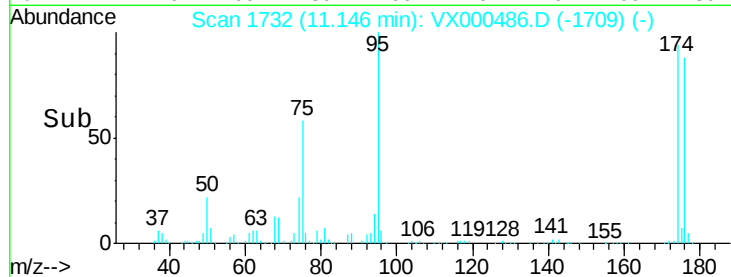
20000

10000

0

Time-->

11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 74.72 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000486.D

Acq: 28 Mar 2018 14:09

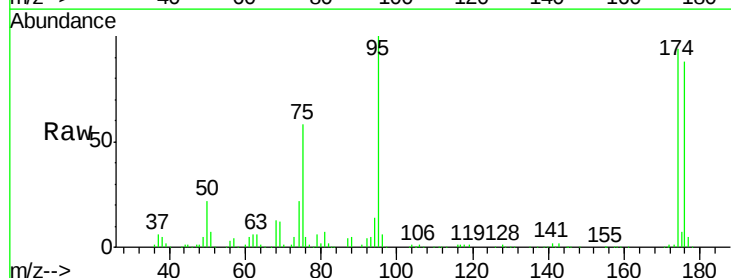
Tgt Ion: 75 Resp: 42371

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

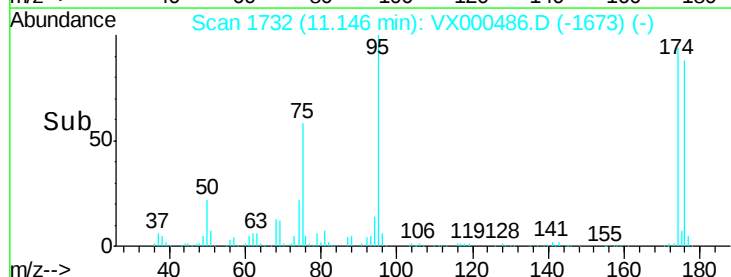
20000

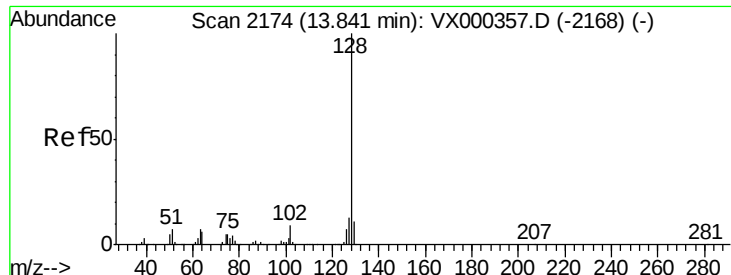
10000

0

Time-->

11.10 11.15 11.20





#95

Naphthalene

Concen: 0.57 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000486.D

Acq: 28 Mar 2018 14:09

Instrument :

MSVOA_X

ClientSampleId :

CL-02-032718-B

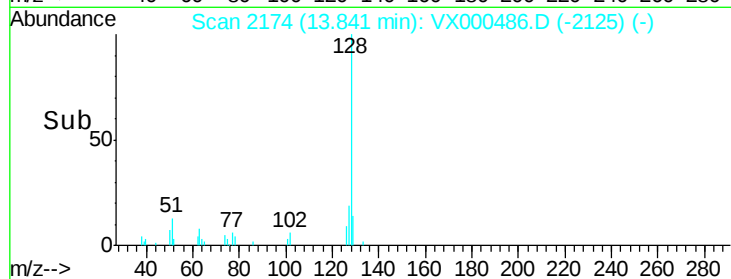
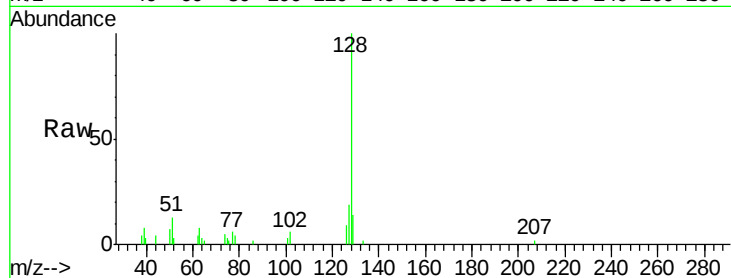
Tgt Ion:128 Resp: 3984

Ion Ratio Lower Upper

128 100

127 12.2 10.6 15.8

129 15.3 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

