

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072118\
 Data File : VX003573.D
 Acq On : 22 Jul 2018 00:37
 Operator : JC/SP
 Sample : J4028-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LCTB01-180716

Quant Time: Jul 23 03:48:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	275119	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	381031	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	359332	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	188801	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	164347	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
35) Dibromofluoromethane	5.51	113	153956	53.05	ug/l	0.00
Spiked Amount			Recovery	=	106.10%	
50) Toluene-d8	8.72	98	547039	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
62) 4-Bromofluorobenzene	11.14	95	181118	45.50	ug/l	0.00
Spiked Amount			Recovery	=	91.00%	

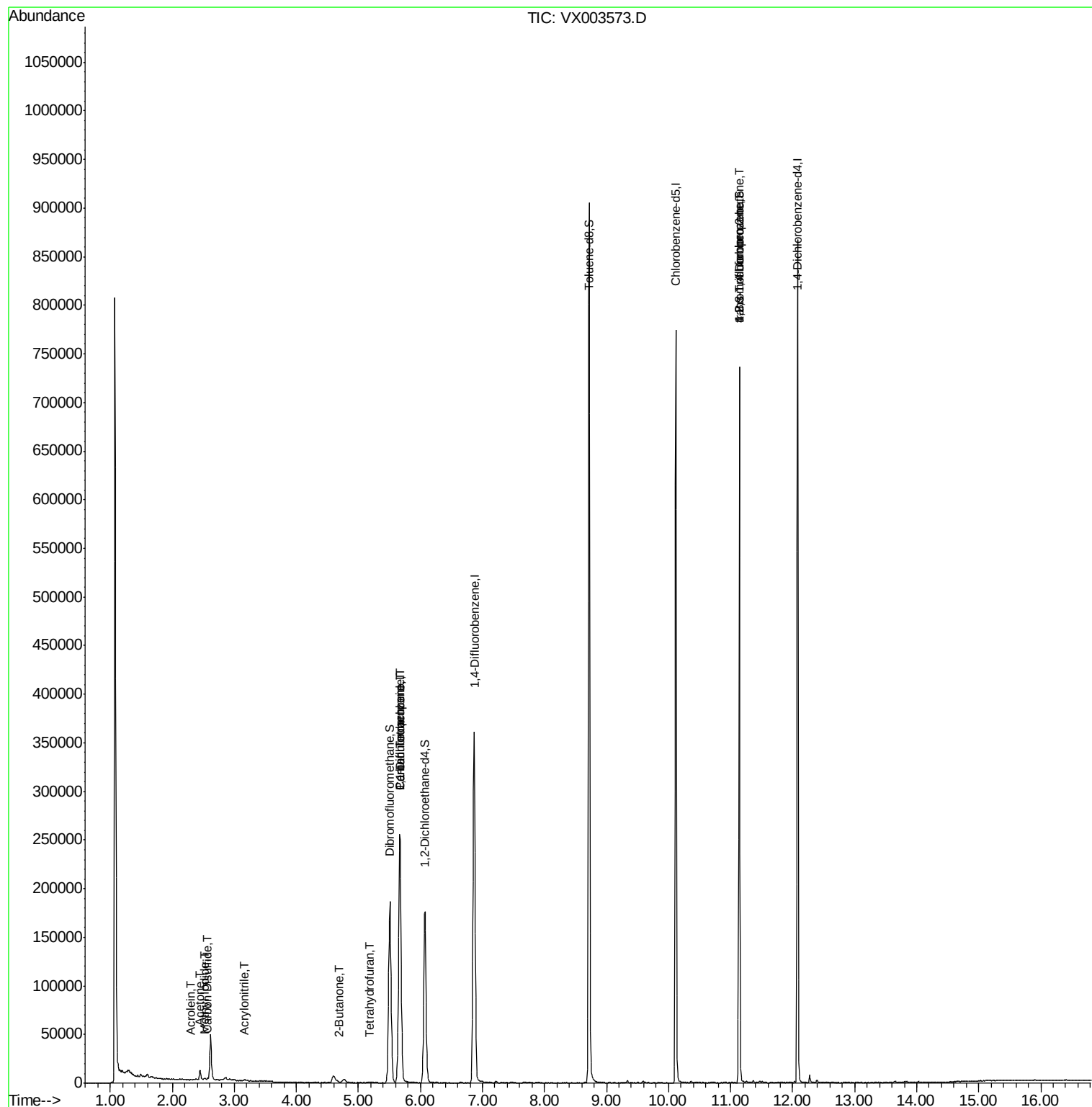
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	242	Below Cal	#	43
3) Chloromethane	1.33	50	677	Below Cal		92
5) Bromomethane	1.65	94	661	Below Cal		82
10) Methyl Iodide	2.53	142	1859	0.51	ug/l	90
13) Acrolein	2.30	56	70	0.24	ug/l #	12
15) Acrylonitrile	3.15	53	416	0.25	ug/l #	91
16) Acetone	2.44	43	10657	8.66	ug/l	98
17) Carbon Disulfide	2.57	76	1715	0.22	ug/l #	69
20) Methylene Chloride	2.86	84	1053	Below Cal	#	81
25) 2-Butanone	4.70	43	428	0.21	ug/l #	52
29) Tetrahydrofuran	5.18	42	608	0.45	ug/l #	54
36) 1,1-Dichloropropene	5.66	75	17025	4.14	ug/l #	50
38) Carbon Tetrachloride	5.67	117	23937	5.93	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	86622	25.54	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	86622	71.47	ug/l #	7

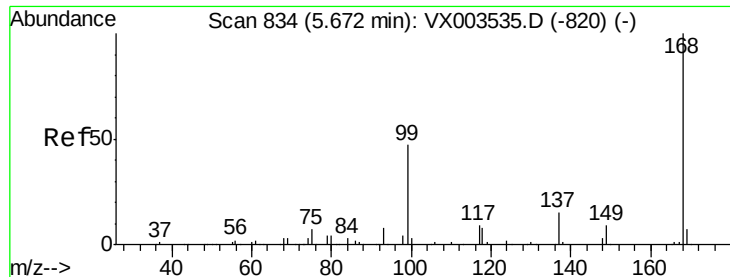
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003573.D

Acq: 22 Jul 2018 00:37

Instrument :

MSVOA_X

ClientSampleId :

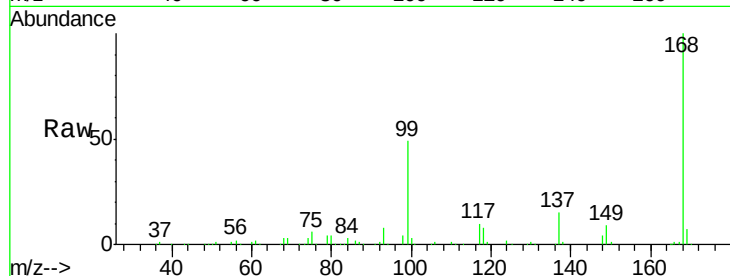
LCTB01-180716

Tot Ion:168 Resp: 275119

Ion Ratio Lower Upper

168 100

99 48.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

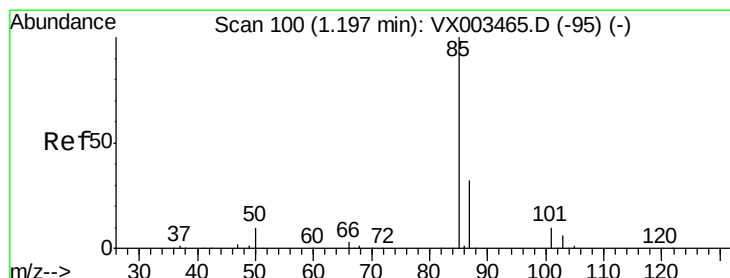
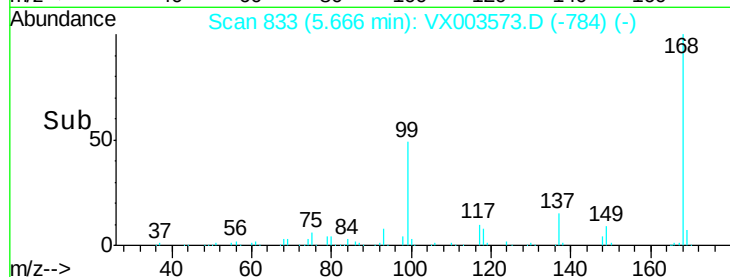
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003573.D

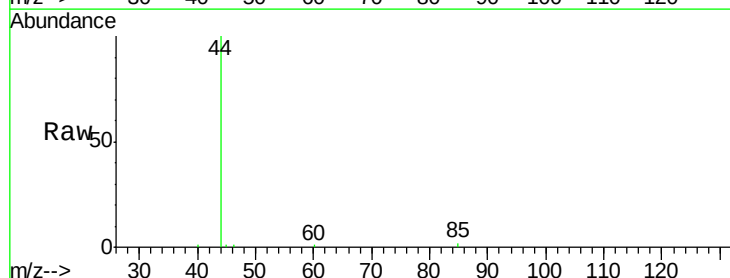
Acq: 22 Jul 2018 00:37

Tgt Ion: 85 Resp: 242

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

300

250

200

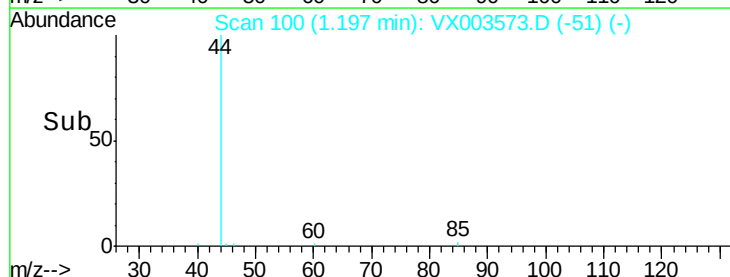
150

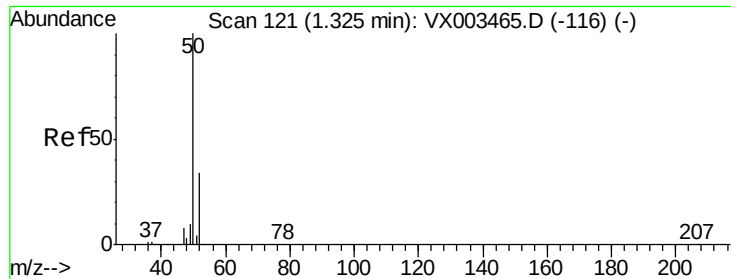
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003573.D

Acq: 22 Jul 2018 00:37

Instrument :

MSVOA_X

ClientSampleId :

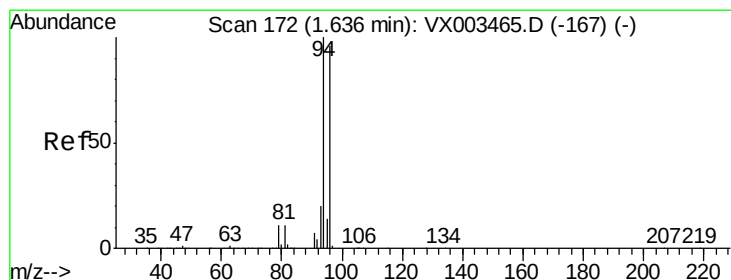
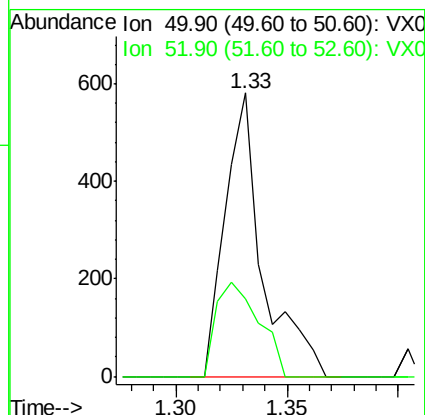
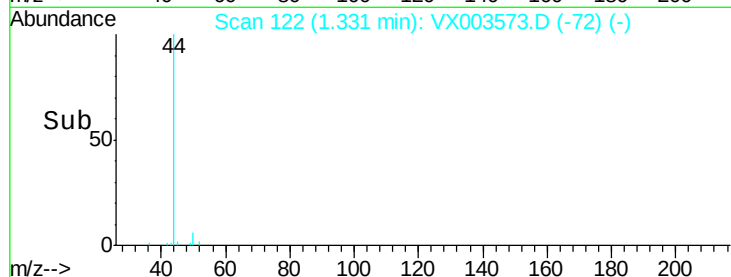
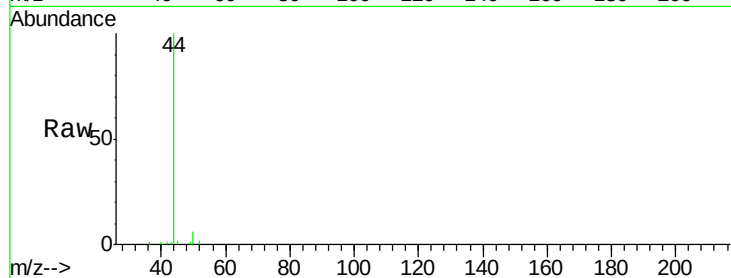
LCTB01-180716

Tot Ion: 50 Resp: 677

Ion Ratio Lower Upper

50 100

52 27.5 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003573.D

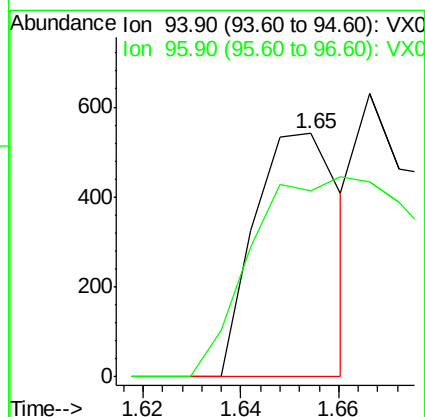
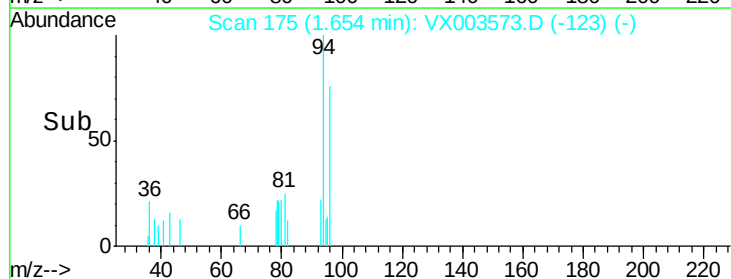
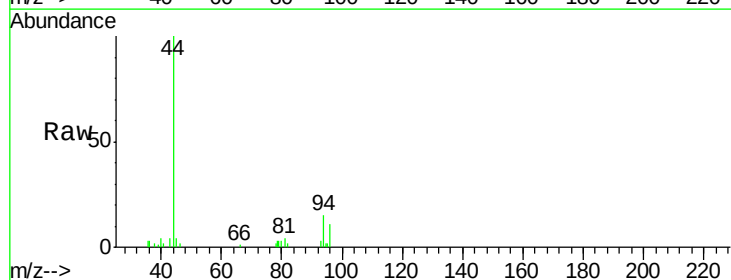
Acq: 22 Jul 2018 00:37

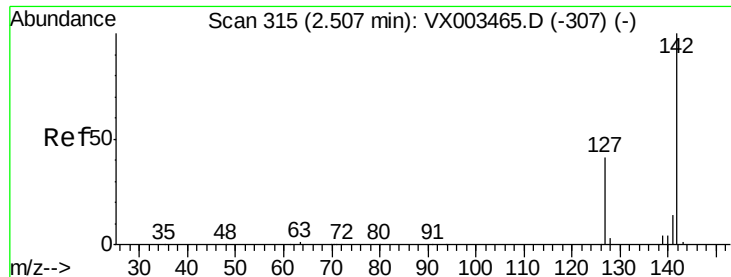
Tgt Ion: 94 Resp: 661

Ion Ratio Lower Upper

94 100

96 76.3 74.9 112.3

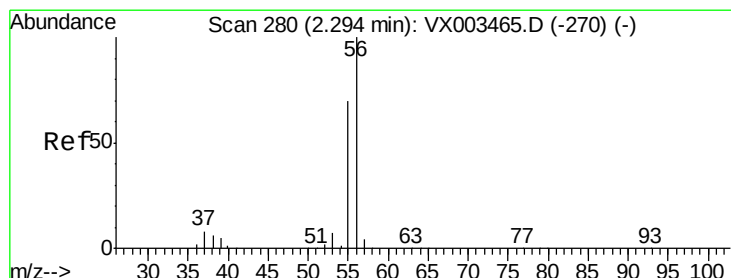
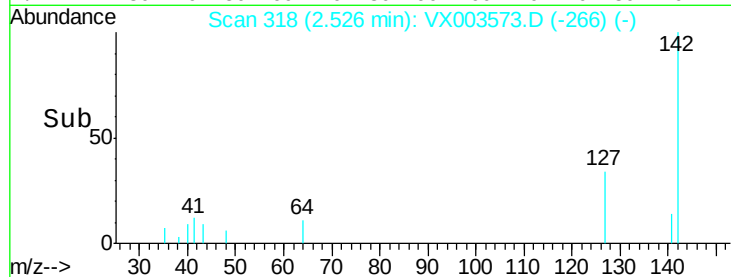
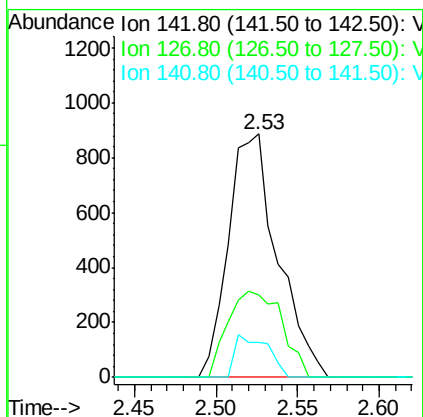
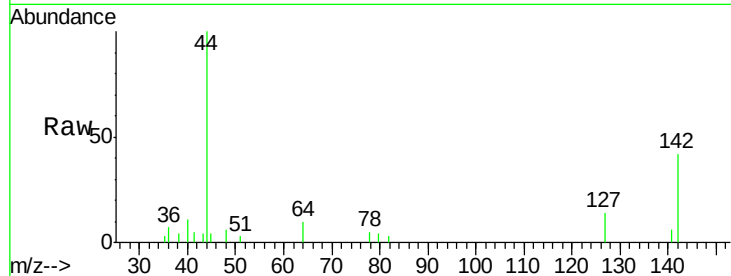




#10
Methvl Iodide
Concen: 0.51 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.02 min
Lab File: VX003573.D
Acq: 22 Jul 2018 00:37

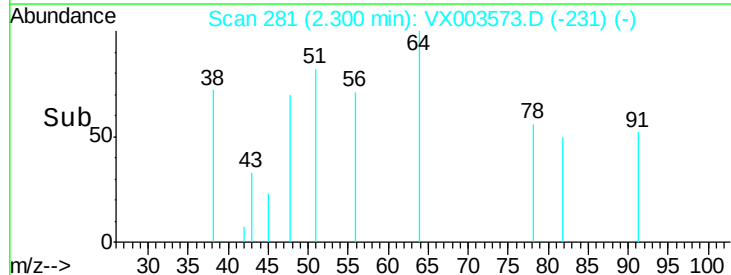
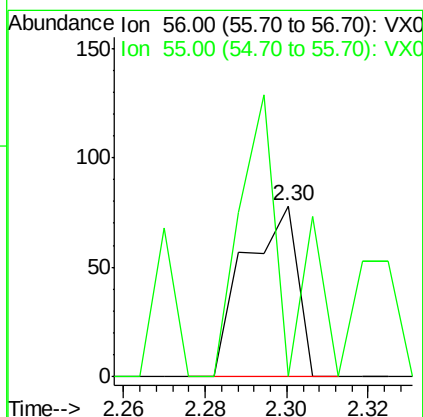
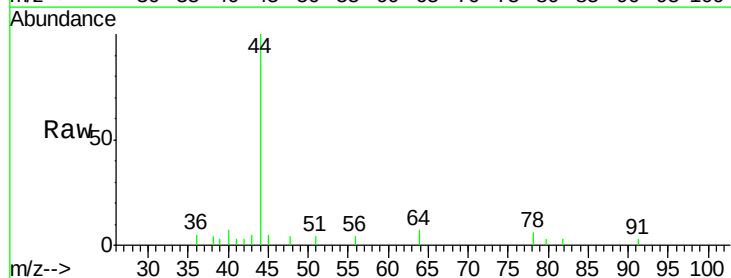
Instrument :
MSVOA_X
ClientSampleId :
LCTB01-180716

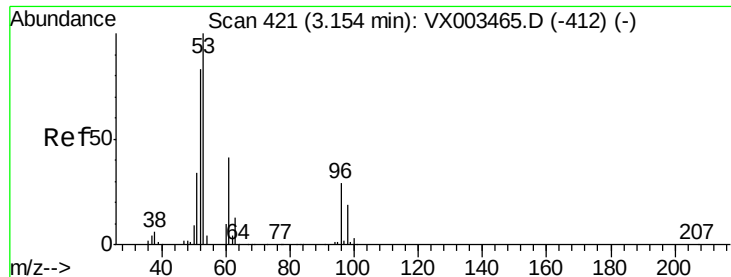
Tot Ion:142 Resp: 1859
Ion Ratio Lower Upper
142 100
127 38.6 36.6 55.0
141 11.5 11.3 16.9



#13
Acrolein
Concen: 0.24 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX003573.D
Acq: 22 Jul 2018 00:37

Tgt Ion: 56 Resp: 70
Ion Ratio Lower Upper
56 100
55 144.3 57.0 85.4#





#15

Acrylonitrile

Concen: 0.25 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX003573.D

Acq: 22 Jul 2018 00:37

Instrument :

MSVOA_X

ClientSampleId :

LCTB01-180716

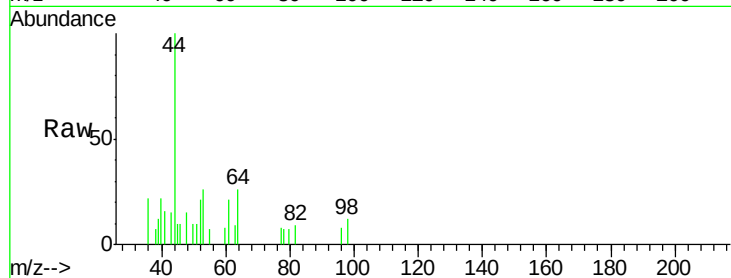
Tot Ion: 53 Resp: 416

Ion Ratio Lower Upper

53 100

52 82.9 66.7 100.1

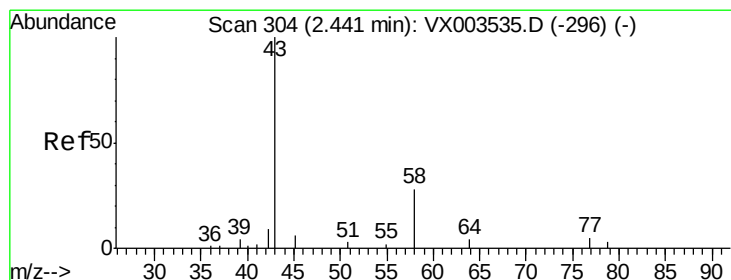
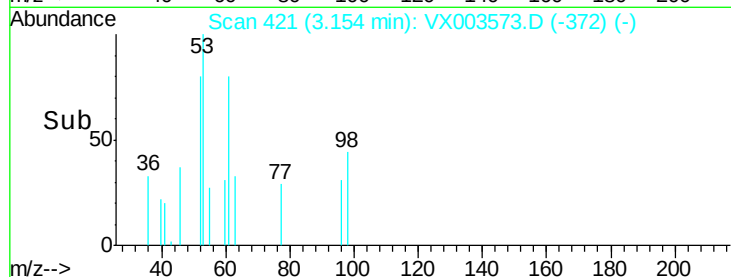
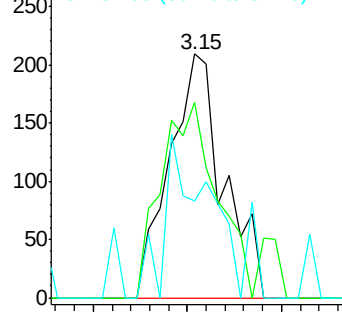
51 53.6 29.9 44.9#



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



#16

Acetone

Concen: 8.66 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX003573.D

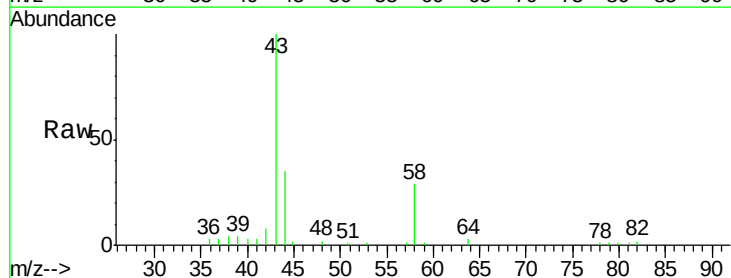
Acq: 22 Jul 2018 00:37

Tgt Ion: 43 Resp: 10657

Ion Ratio Lower Upper

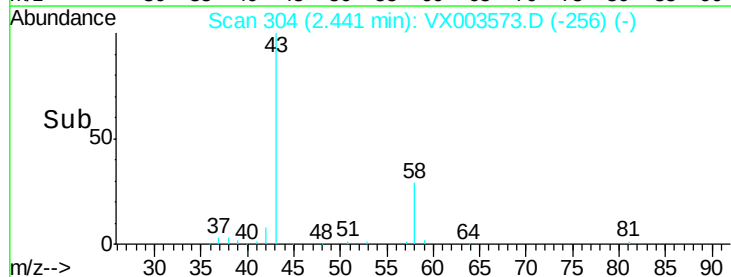
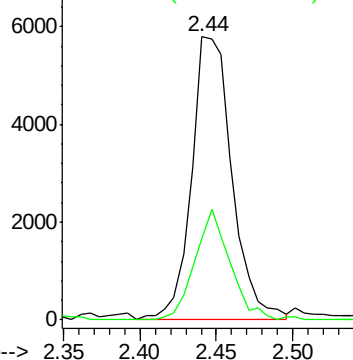
43 100

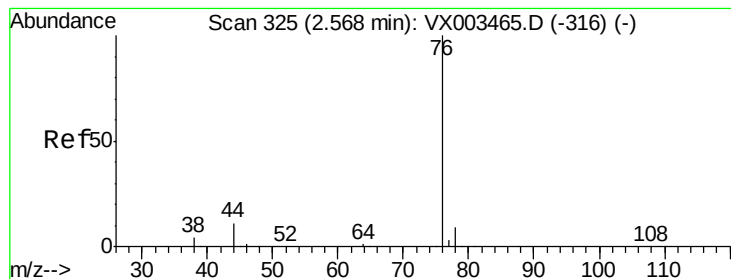
58 28.8 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.22 ua/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003573.D

Acq: 22 Jul 2018 00:37

Instrument :

MSVOA_X

ClientSampleId :

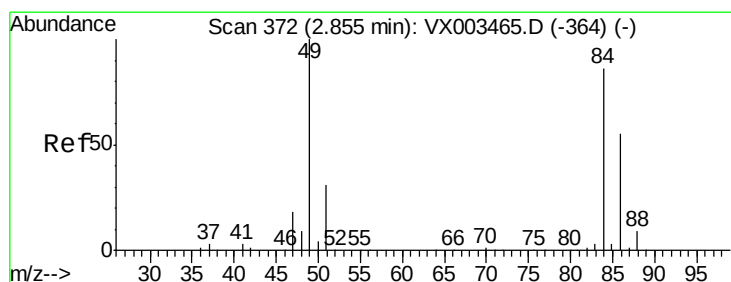
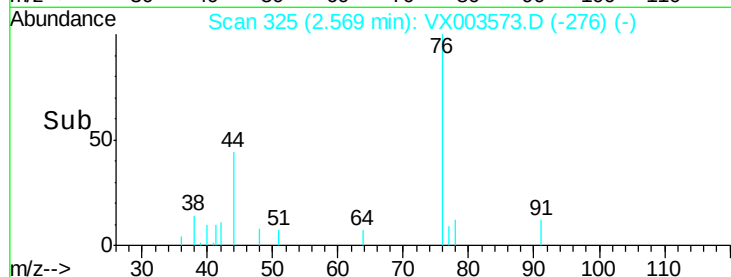
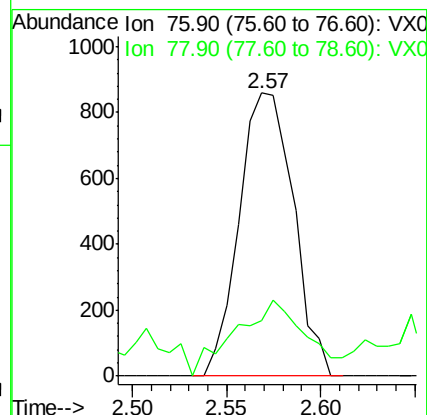
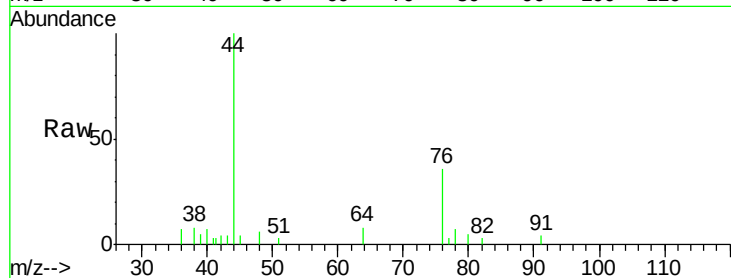
LCTB01-180716

Tot Ion: 76 Resp: 1715

Ion Ratio Lower Upper

76 100

78 19.6 6.9 10.3#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003573.D

Acq: 22 Jul 2018 00:37

Tgt Ion: 84 Resp: 1053

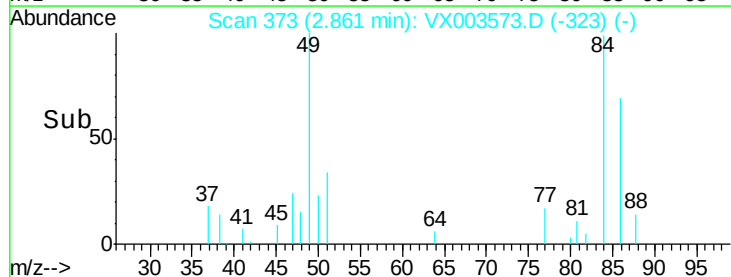
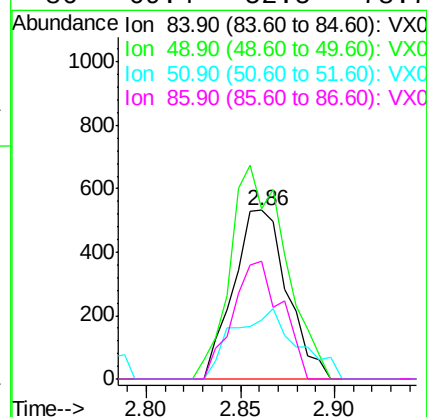
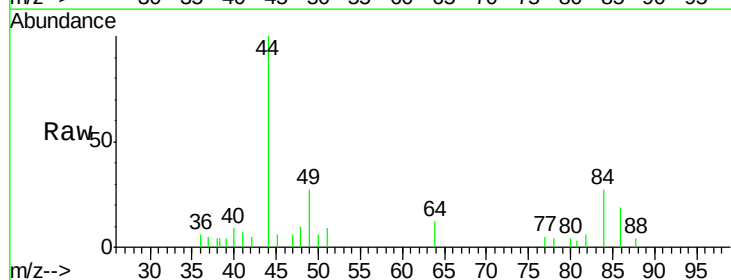
Ion Ratio Lower Upper

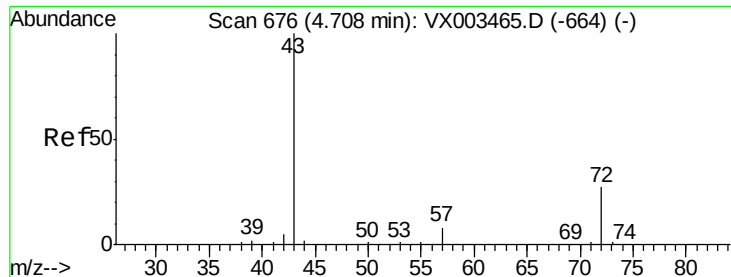
84 100

49 100.9 107.8 161.6#

51 34.7 32.8 49.2

86 69.4 52.5 78.7





#25

2-Butanone

Concen: 0.21 ug/l

RT: 4.70 min Scan# 675

Delta R.T. -0.01 min

Lab File: VX003573.D

Acq: 22 Jul 2018 00:37

Instrument :

MSVOA_X

ClientSampleId :

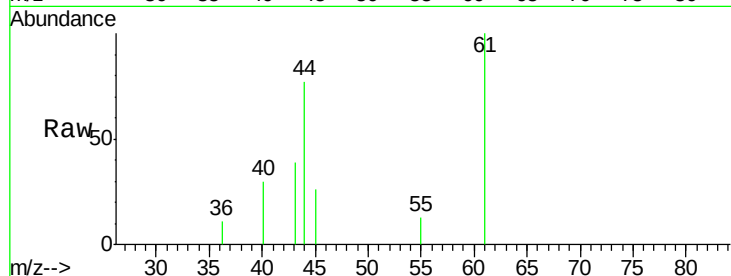
LCTB01-180716

Tot Ion: 43 Resp: 428

Ion Ratio Lower Upper

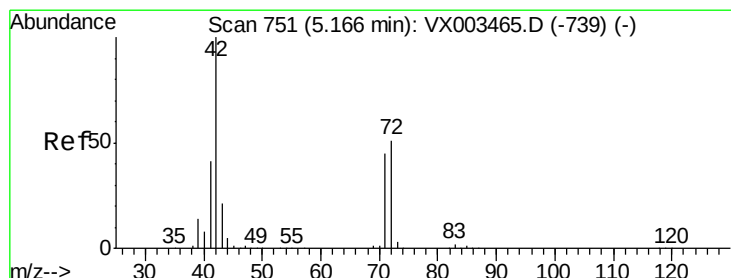
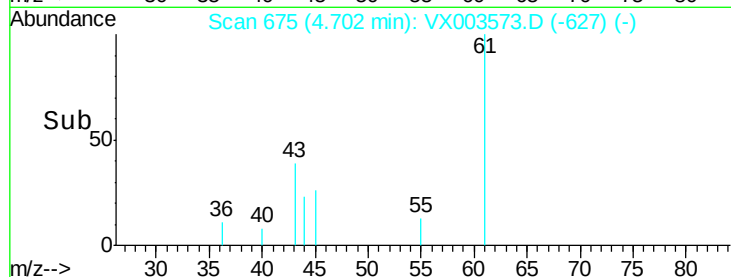
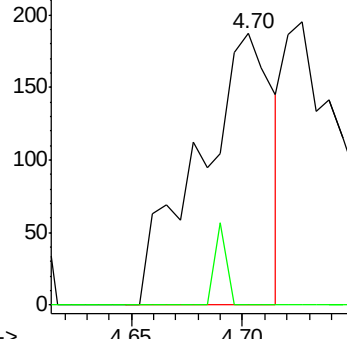
43 100

72 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.45 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX003573.D

Acq: 22 Jul 2018 00:37

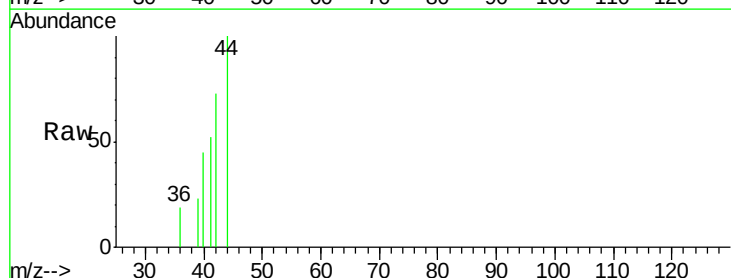
Tgt Ion: 42 Resp: 608

Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

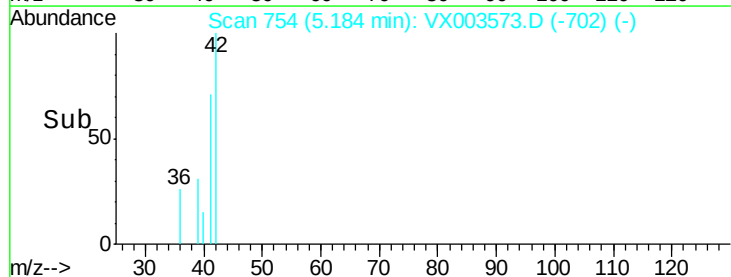
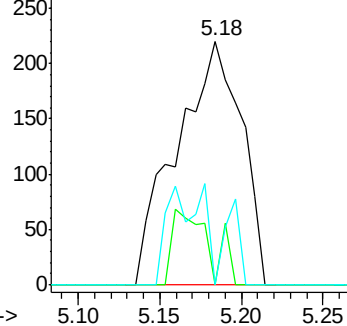
71 22.0 30.1 45.1#

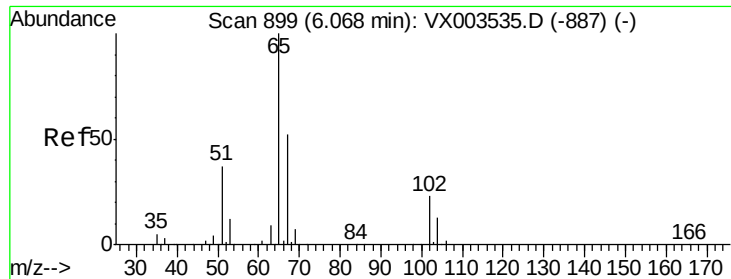


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

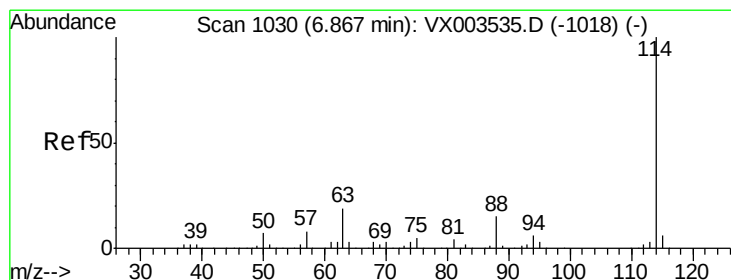
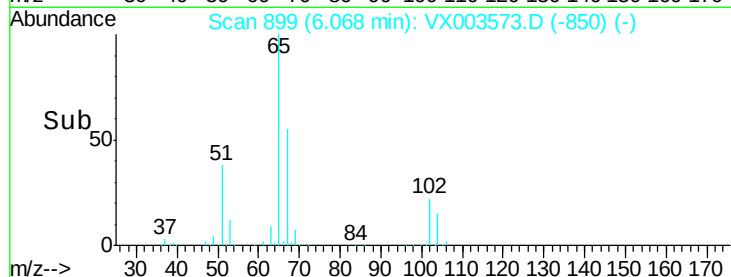
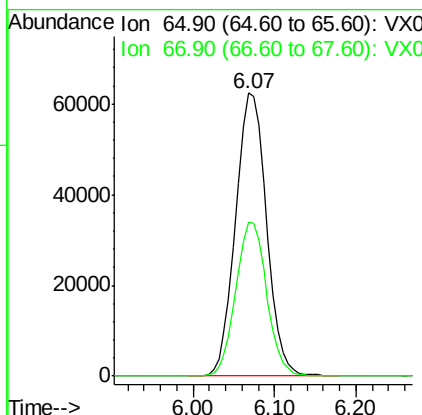
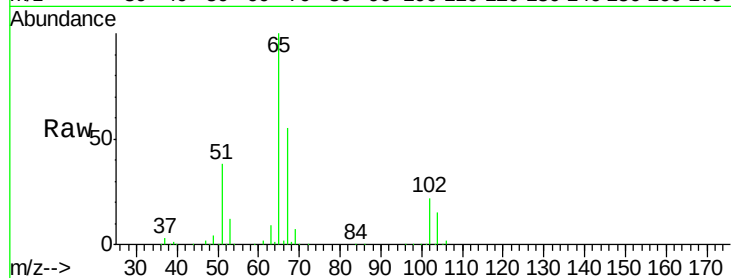




#33
 1,2-Dichloroethane-d4
 Concen: 50.47 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VX003573.D
 Acq: 22 Jul 2018 00:37

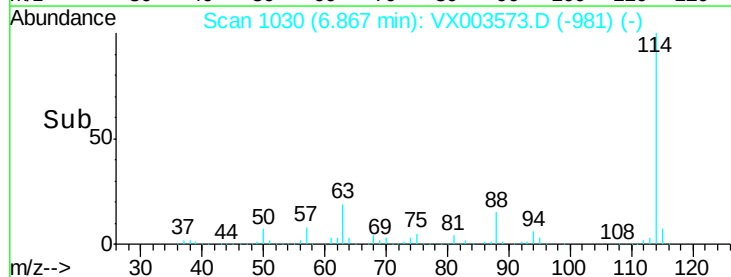
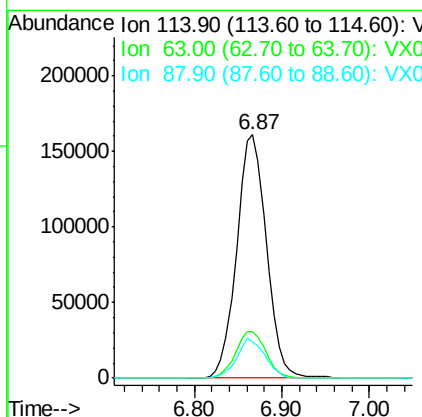
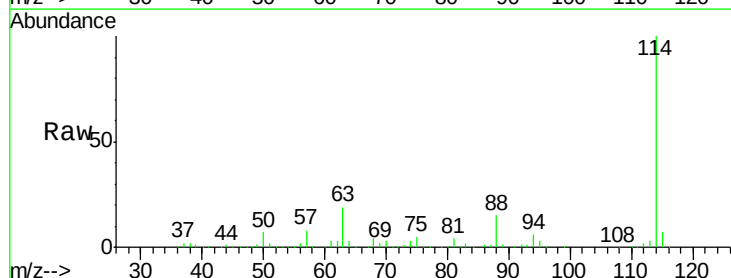
Instrument :
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 LCTB01-180716

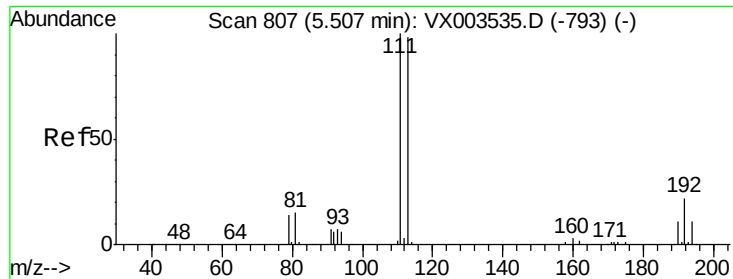
Tot Ion: 65 Resp: 164347
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003573.D
 Acq: 22 Jul 2018 00:37

Tgt Ion: 114 Resp: 381031
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 41.4
 88 14.9 0.0 30.0





#35

Dibromofluoromethane

Concen: 53.05 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX003573.D

Acq: 22 Jul 2018 00:37

Instrument :

MSVOA_X

ClientSampleId :

LCTB01-180716

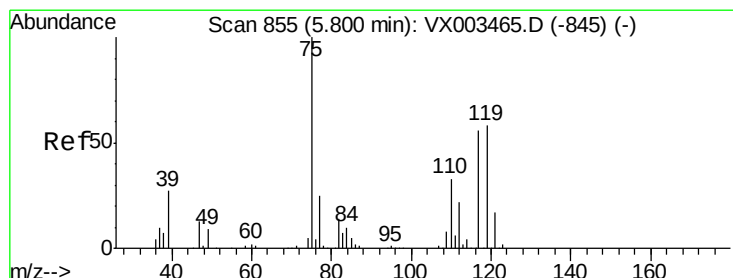
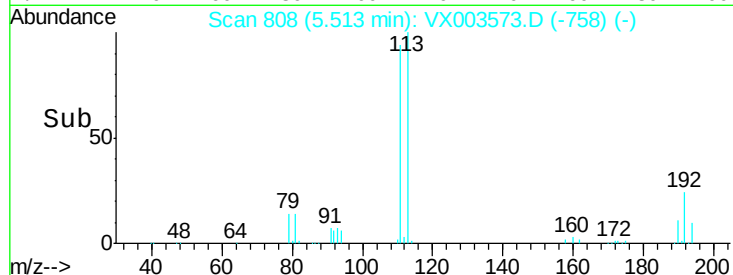
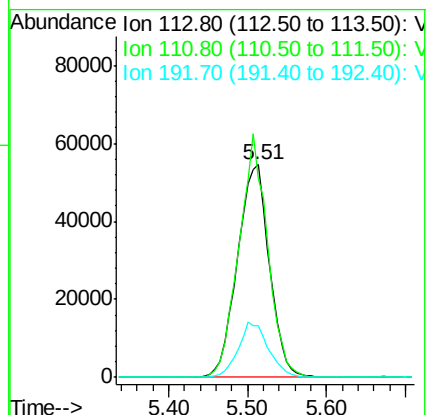
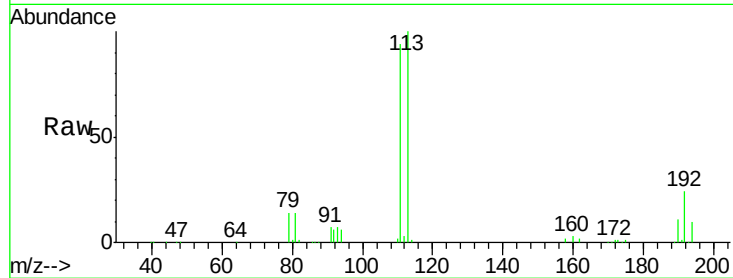
Tot Ion:113 Resp: 153956

Ion Ratio Lower Upper

113 100

111 103.0 81.4 122.0

192 24.6 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.14 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX003573.D

Acq: 22 Jul 2018 00:37

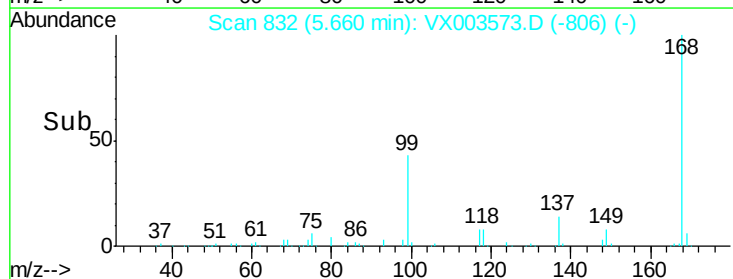
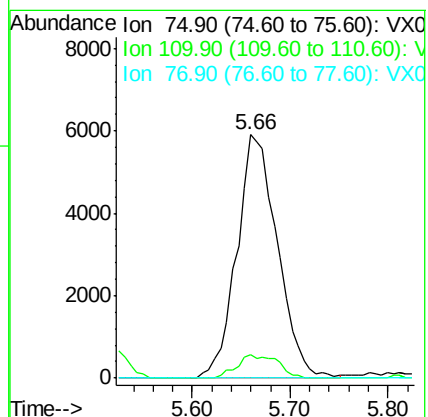
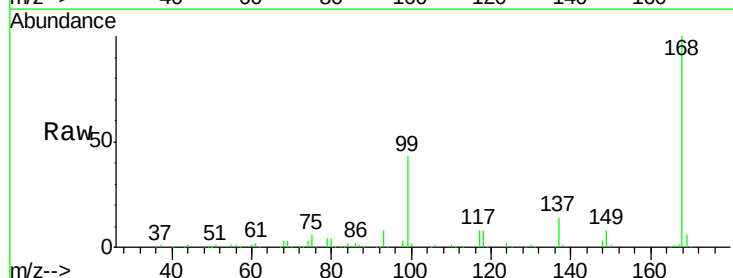
Tgt Ion: 75 Resp: 17025

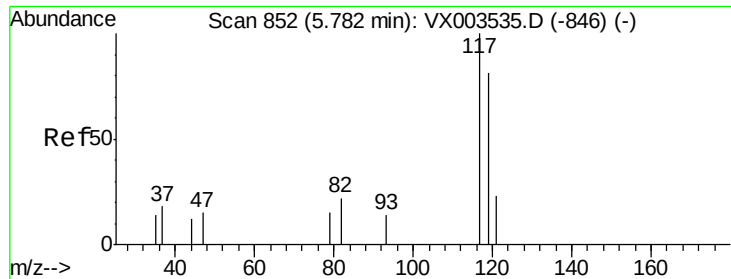
Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.4#

77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.93 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.11 min

Lab File: VX003573.D

Acq: 22 Jul 2018 00:37

Instrument :

MSVOA_X

ClientSampleId :

LCTB01-180716

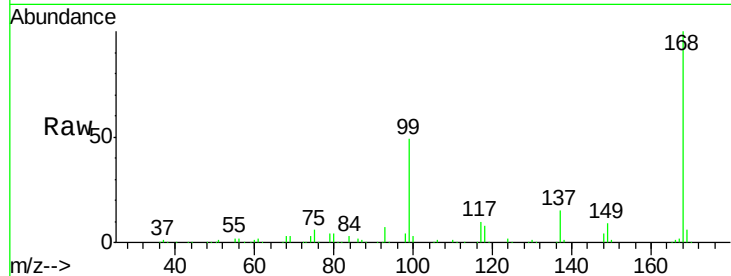
Tot Ion:117 Resp: 23937

Ion Ratio Lower Upper

117 100

119 4.6 77.4 116.0#

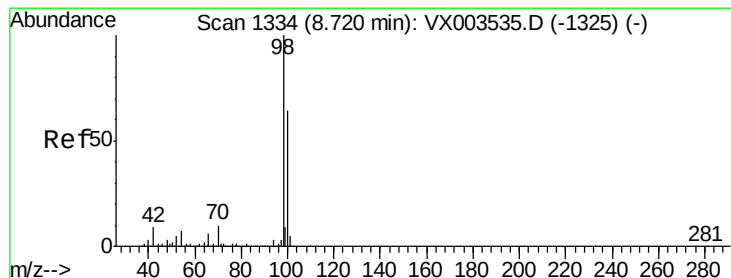
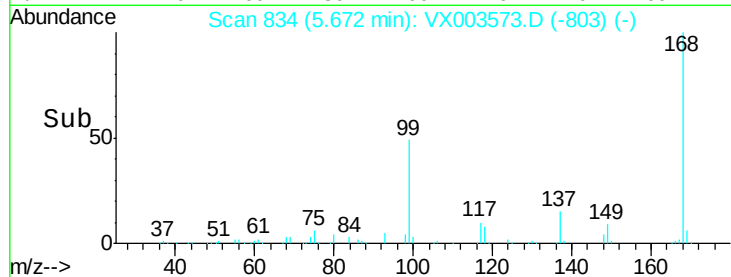
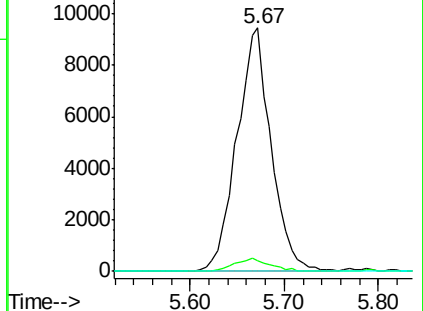
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: 50.15 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003573.D

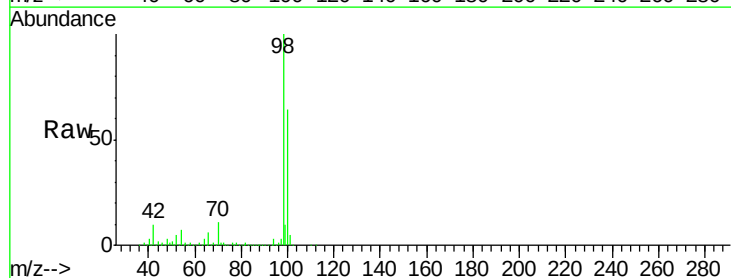
Acq: 22 Jul 2018 00:37

Tgt Ion: 98 Resp: 547039

Ion Ratio Lower Upper

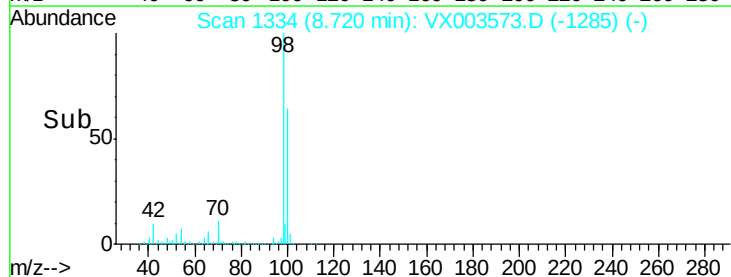
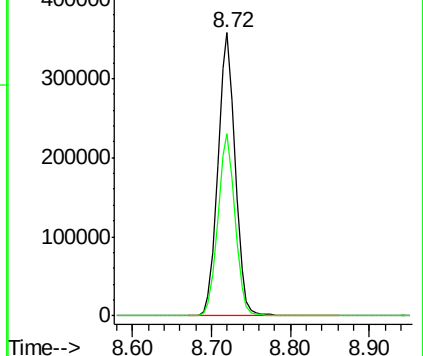
98 100

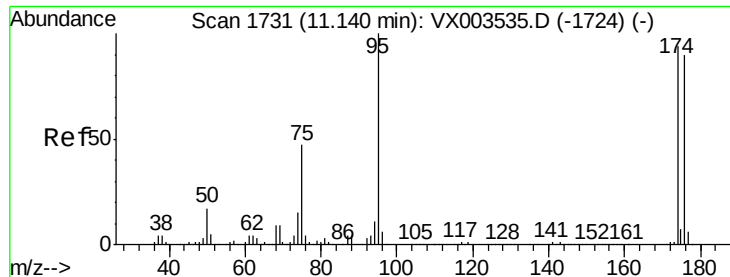
100 64.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

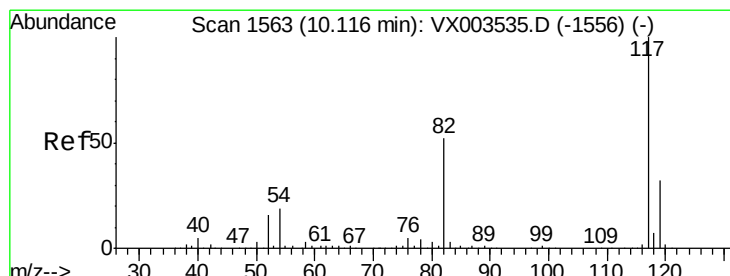
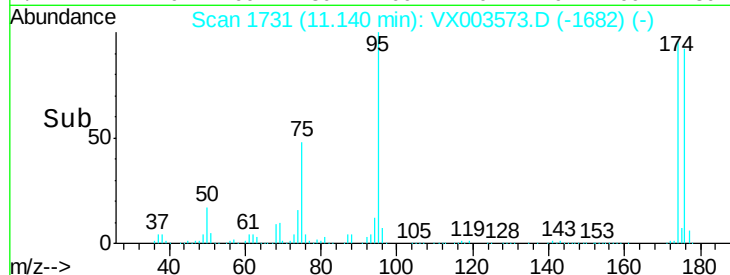
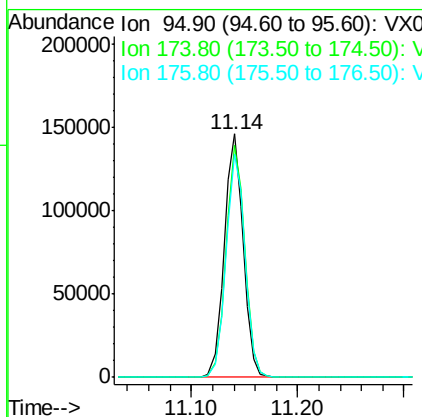
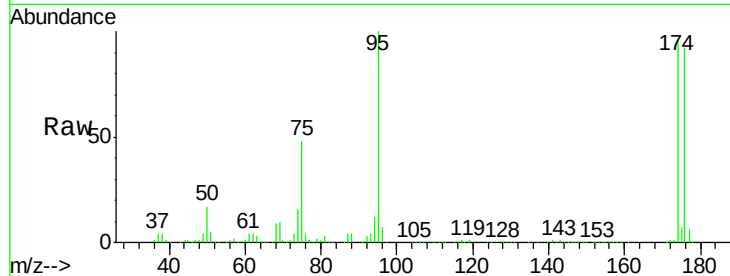




#62
4-Bromofluorobenzene
Concen: 45.50 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003573.D
Acq: 22 Jul 2018 00:37

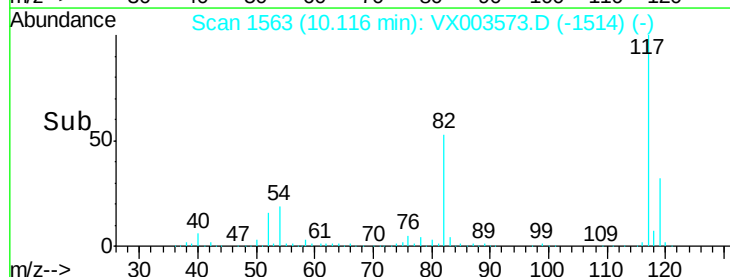
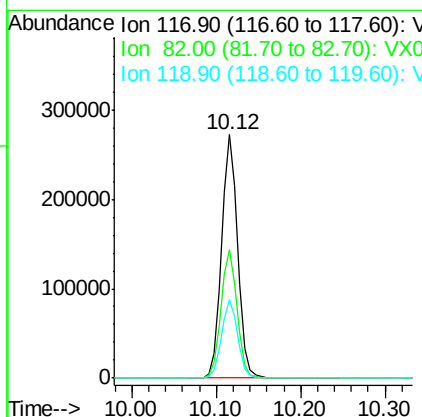
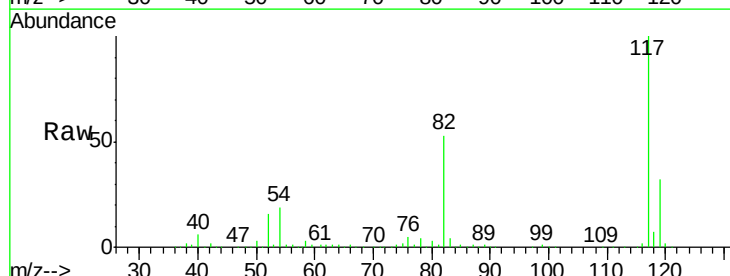
Instrument :
MSVOA_X
ClientSampleId :
LCTB01-180716

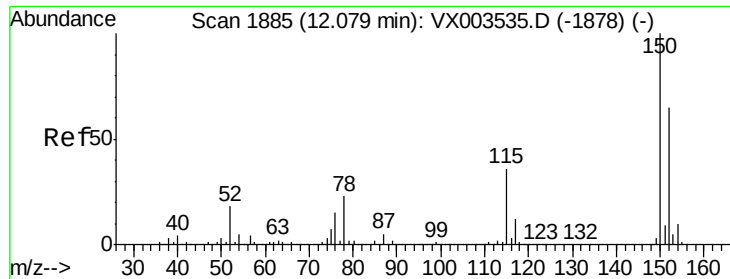
Tot Ion: 95 Resp: 181118
Ion Ratio Lower Upper
95 100
174 95.9 0.0 187.4
176 92.4 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003573.D
Acq: 22 Jul 2018 00:37

Tgt Ion: 117 Resp: 359332
Ion Ratio Lower Upper
117 100
82 53.0 45.0 67.4
119 32.3 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003573.D

Acq: 22 Jul 2018 00:37

Instrument :

MSVOA_X

ClientSampleId :

LCTB01-180716

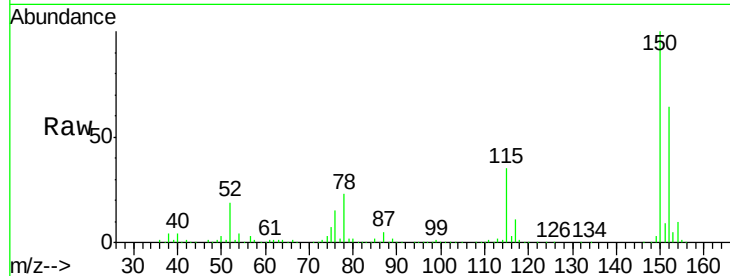
Tot Ion:152 Resp: 188801

Ion Ratio Lower Upper

152 100

115 54.4 40.1 120.2

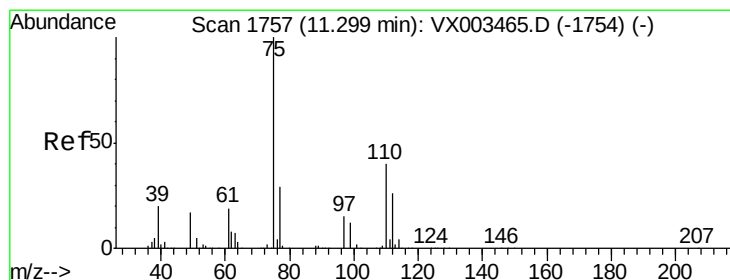
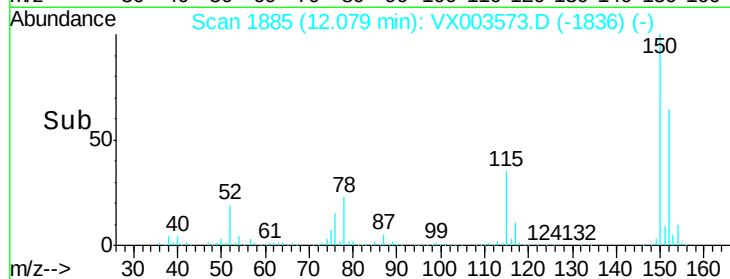
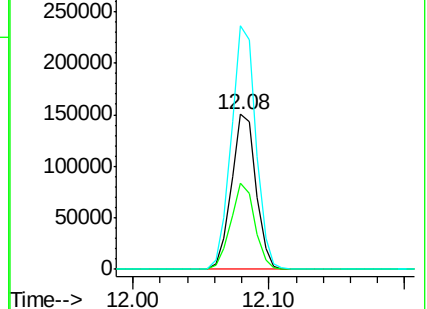
150 157.1 0.0 347.2



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: 25.54 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003573.D

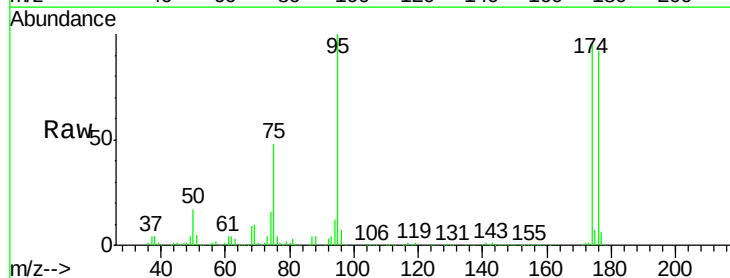
Acq: 22 Jul 2018 00:37

Tgt Ion: 75 Resp: 86622

Ion Ratio Lower Upper

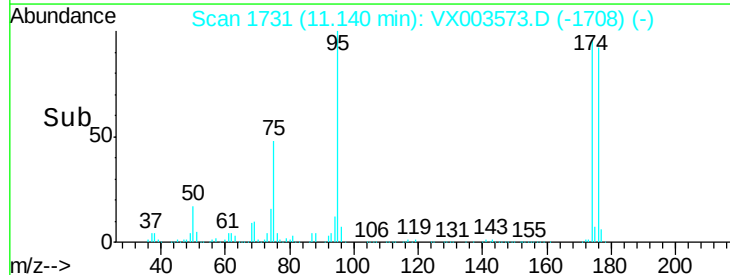
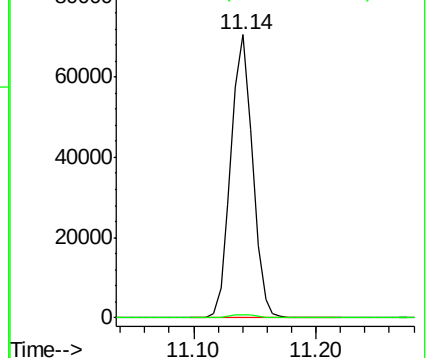
75 100

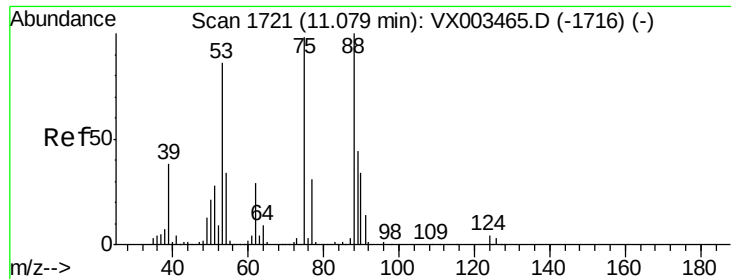
77 1.4 22.8 68.3#



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: 71.47 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003573.D

Acq: 22 Jul 2018 00:37

Instrument :

MSVOA_X

ClientSampleId :

LCTB01-180716

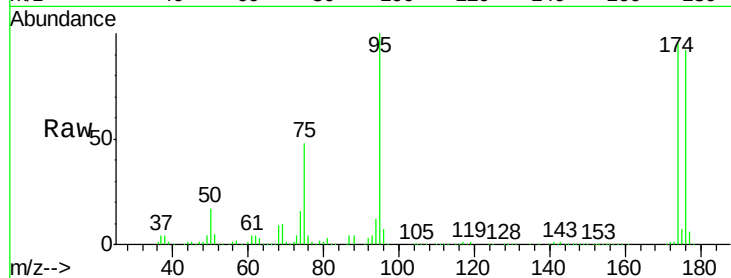
Tot Ion: 75 Resp: 86622

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#



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

