

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072018\
 Data File : VX003524.D
 Acq On : 20 Jul 2018 22:44
 Operator : JC/SP
 Sample : J4014-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB01-071318

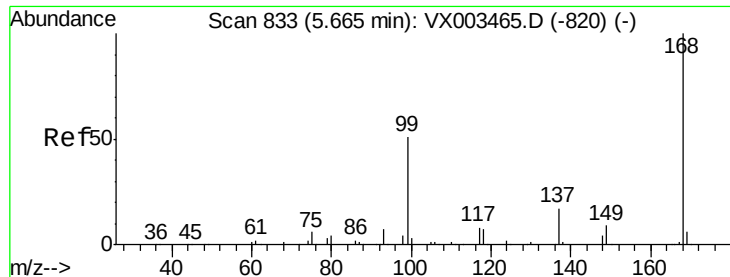
Quant Time: Jul 21 03:43:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	265893	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	402612	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	383360	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	210634	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	171665	54.54	ug/l	0.00
Spiked Amount			Recovery	=	109.08%	
35) Dibromofluoromethane	5.51	113	152430	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
50) Toluene-d8	8.72	98	576516	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
62) 4-Bromofluorobenzene	11.14	95	199219	47.36	ug/l	0.00
Spiked Amount			Recovery	=	94.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	264	Below Cal	#	43
3) Chloromethane	1.32	50	651	Below Cal	#	70
5) Bromomethane	1.65	94	1684	Below Cal		98
10) Methyl Iodide	2.52	142	2807	0.79	ug/l	98
11) Tert butyl alcohol	3.07	59	468	0.75	ug/l #	85
13) Acrolein	2.32	56	334	1.19	ug/l #	14
15) Acrylonitrile	3.15	53	562	0.35	ug/l #	84
16) Acetone	2.45	43	9335	7.85	ug/l #	87
17) Carbon Disulfide	2.57	76	3174	0.43	ug/l #	94
18) Methyl Acetate	2.79	43	947	0.25	ug/l	95
20) Methylene Chloride	2.85	84	733	Below Cal	#	67
21) trans-1,2-Dichloroethene	3.17	96	610	0.20	ug/l	91
25) 2-Butanone	4.72	43	1984	0.99	ug/l	96
26) 2,2-Dichloropropane	4.78	77	1164	0.29	ug/l #	53
38) Carbon Tetrachloride	5.67	117	23175	5.44	ug/l #	16
52) Toluene	8.79	92	3635	0.44	ug/l	91
59) 2-Hexanone	9.51	43	969	0.32	ug/l	87
76) 1,2,3-Trichloropropane	11.14	75	93936	24.82	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	93936	69.53	ug/l #	7
91) 1,2-Dichlorobenzene	12.40	146	1570	0.21	ug/l	95
93) 1,2,4-Trichlorobenzene	13.65	180	1456	0.26	ug/l	94
94) Hexachlorobutadiene	13.79	225	764	0.29	ug/l	99
95) Naphthalene	13.83	128	3131	0.21	ug/l	97
96) 1,2,3-Trichlorobenzene	14.02	180	1254	0.23	ug/l	87

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003524.D

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MSVOA_X

ClientSampleId :

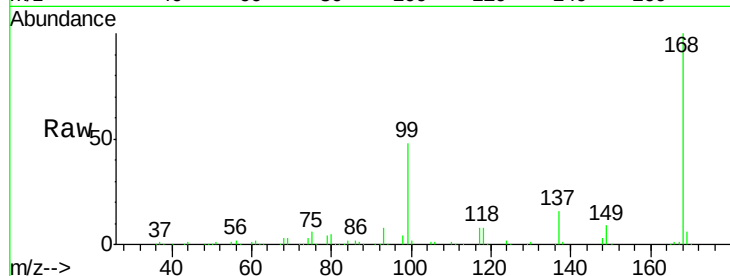
FB01-071318

Tot Ion:168 Resp: 265893

Ion Ratio Lower Upper

168 100

99 47.8 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

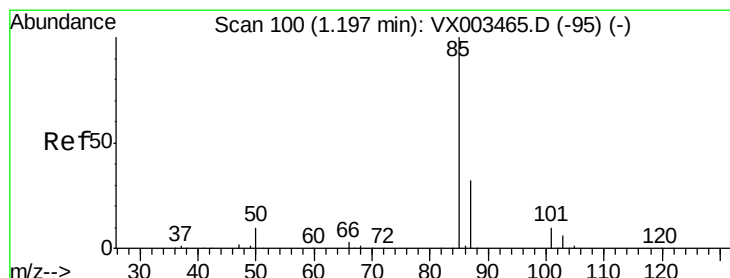
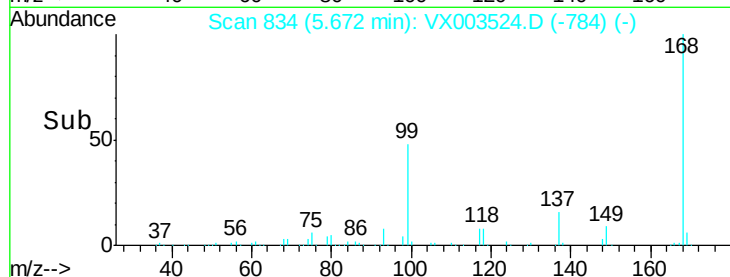
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003524.D

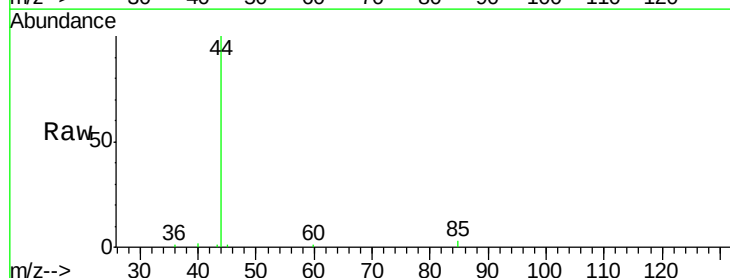
Acq: 20 Jul 2018 22:44

Tgt Ion: 85 Resp: 264

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

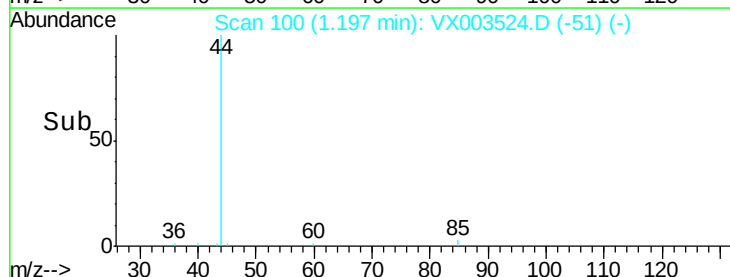
150

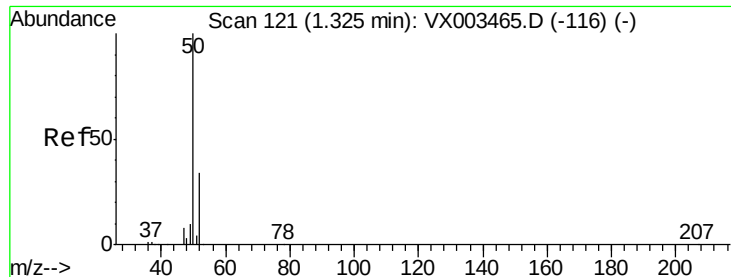
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003524.D

Acq: 20 Jul 2018 22:44

Instrument :

MSVOA_X

ClientSampled :

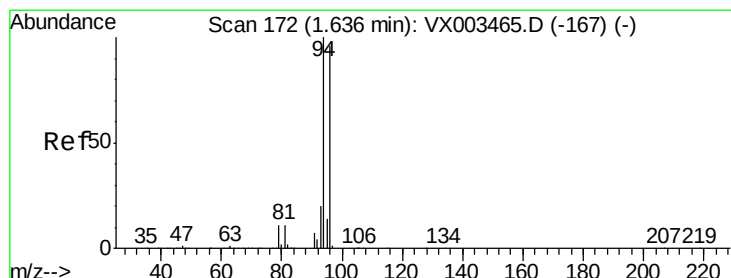
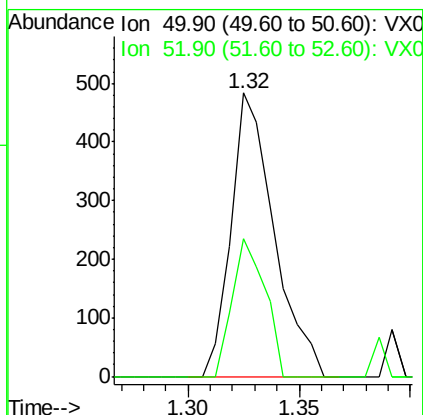
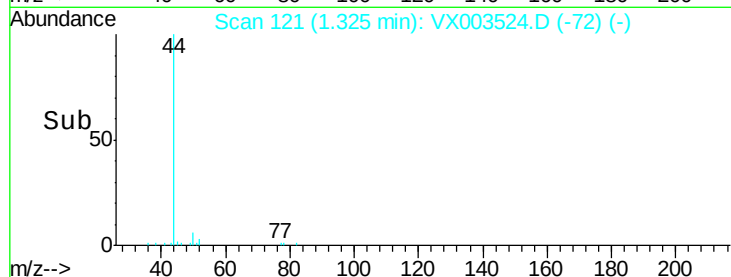
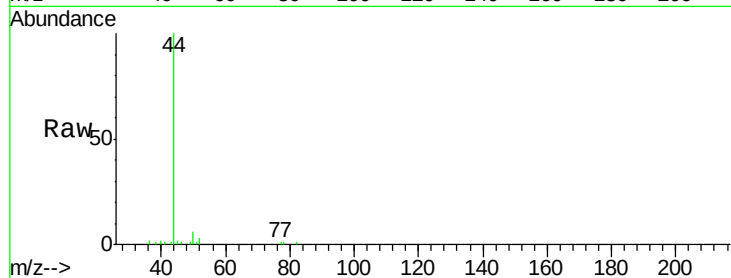
FB01-071318

Tot Ion: 50 Resp: 651

Ion Ratio Lower Upper

50 100

52 48.9 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003524.D

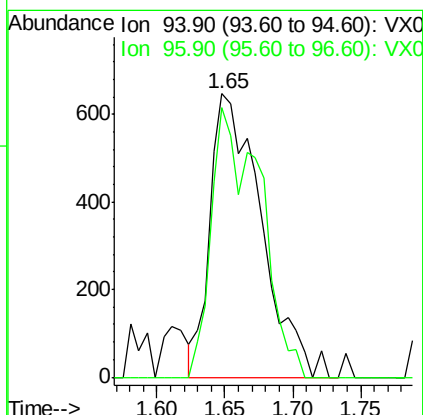
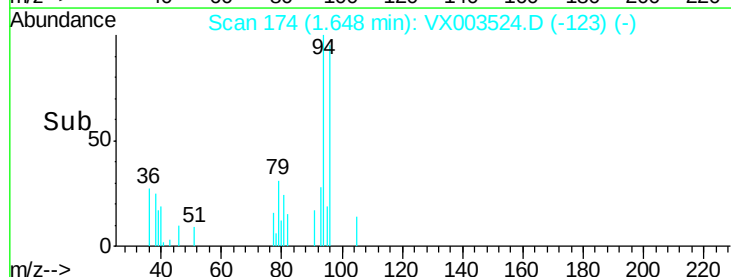
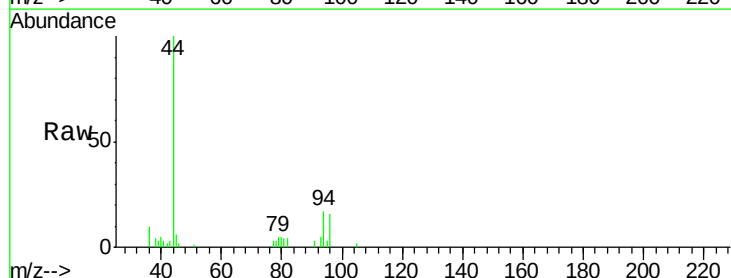
Acq: 20 Jul 2018 22:44

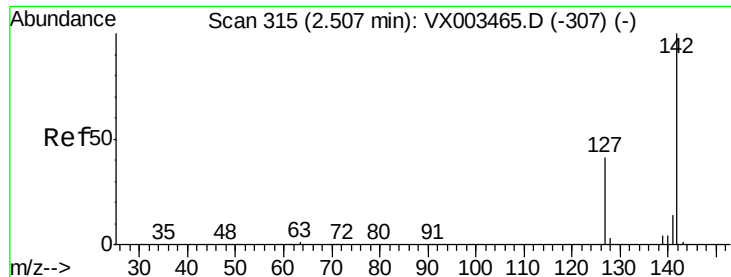
Tgt Ion: 94 Resp: 1684

Ion Ratio Lower Upper

94 100

96 95.2 74.9 112.3

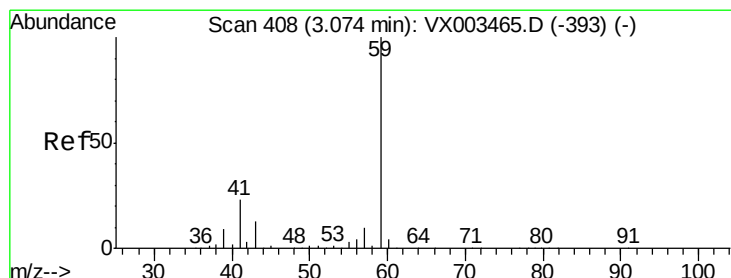
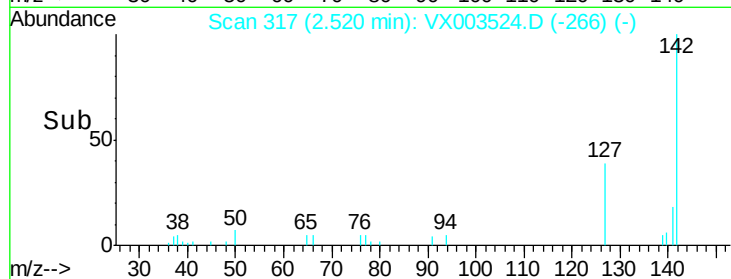
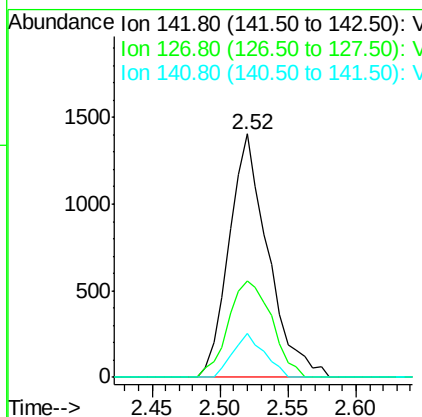
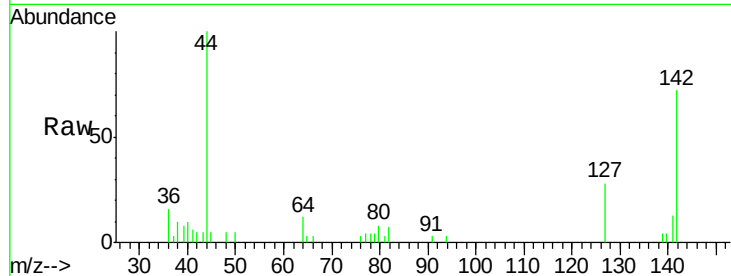




#10
Methvl Iodide
Concen: 0.79 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003524.D
Acq: 20 Jul 2018 22:44

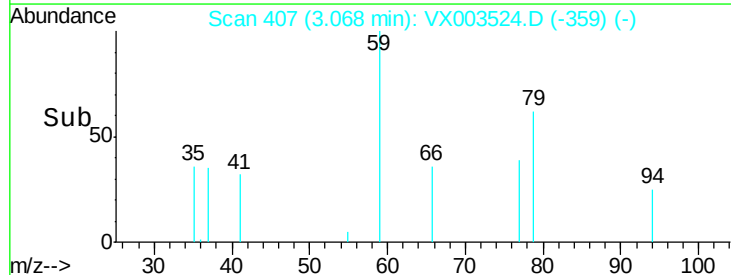
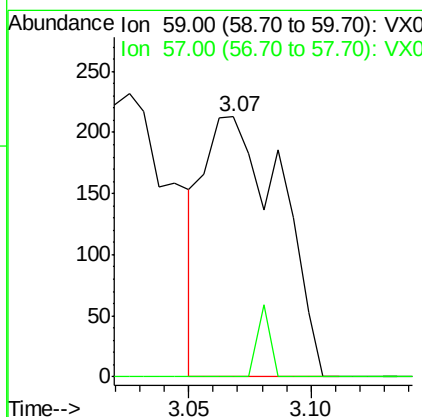
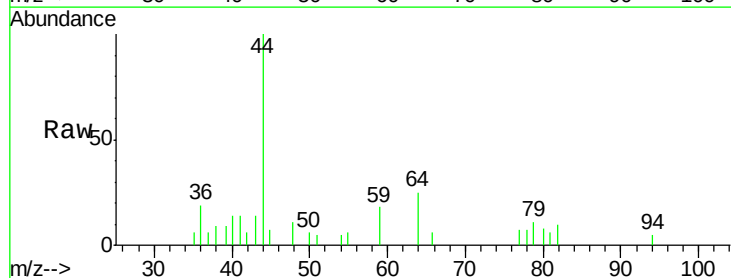
Instrument :
MSVOA_X
ClientSampleId :
FB01-071318

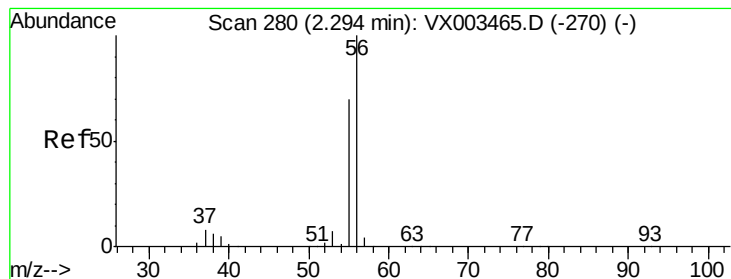
Tot Ion:142 Resp: 2807
Ion Ratio Lower Upper
142 100
127 44.1 36.6 55.0
141 14.5 11.3 16.9



#11
Tert butyl alcohol
Concen: 0.75 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX003524.D
Acq: 20 Jul 2018 22:44

Tgt Ion: 59 Resp: 468
Ion Ratio Lower Upper
59 100
57 4.7 8.2 12.2#





#13

Acrolein

Concen: 1.19 ug/l

RT: 2.32 min Scan# 285

Delta R.T. 0.03 min

Lab File: VX003524.D

Acq: 20 Jul 2018 22:44

Instrument :

MSVOA_X

ClientSampleId :

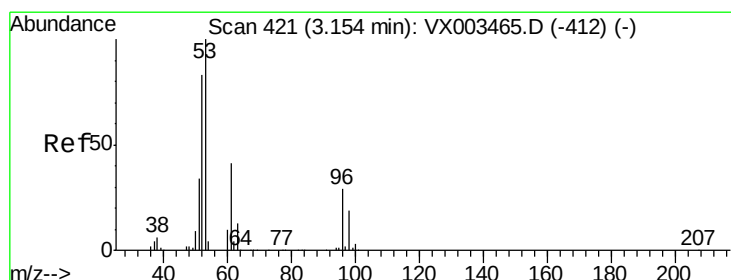
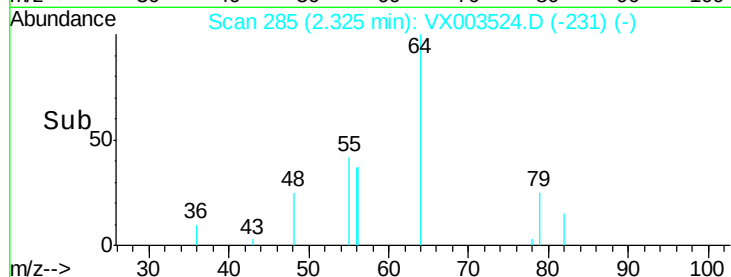
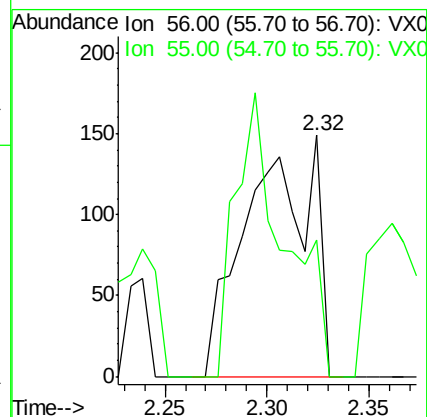
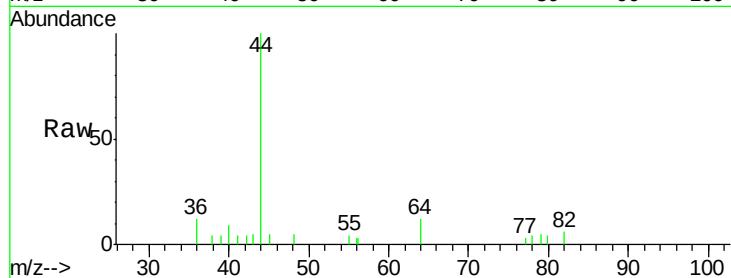
FB01-071318

Tot Ion: 56 Resp: 334

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#15

Acrylonitrile

Concen: 0.35 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX003524.D

Acq: 20 Jul 2018 22:44

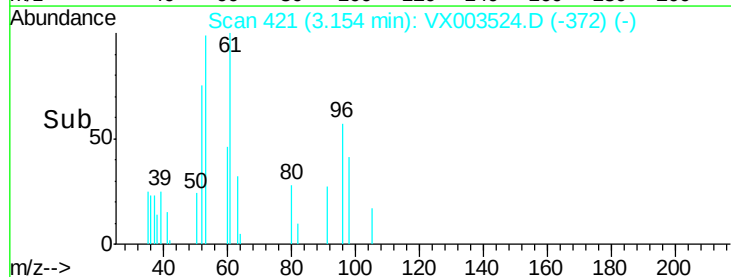
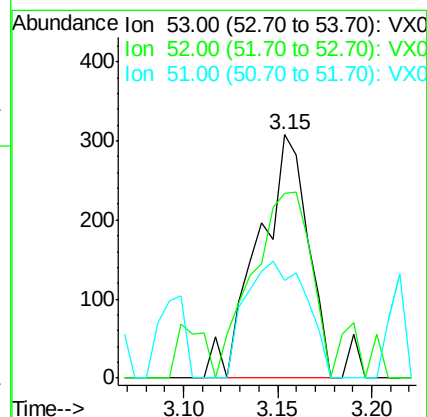
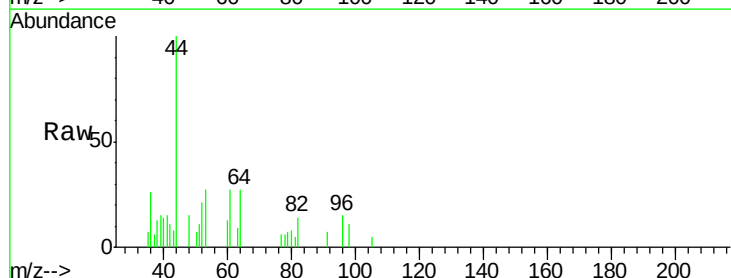
Tgt Ion: 53 Resp: 562

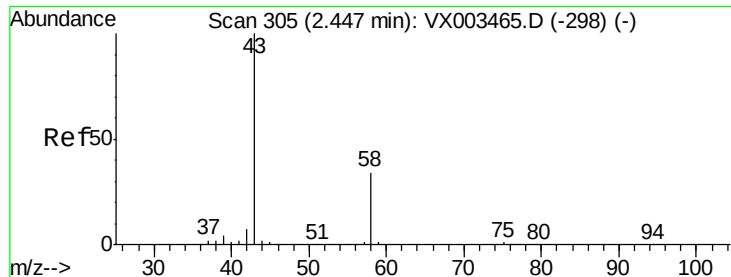
Ion Ratio Lower Upper

53 100

52 89.5 66.7 100.1

51 58.7 29.9 44.9#





#16

Acetone

Concen: 7.85 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003524.D

Acq: 20 Jul 2018 22:44

Instrument :

MSVOA_X

ClientSampleId :

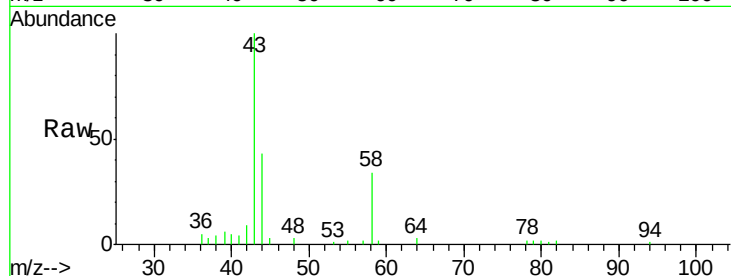
FB01-071318

Tot Ion: 43 Resp: 9335

Ion Ratio Lower Upper

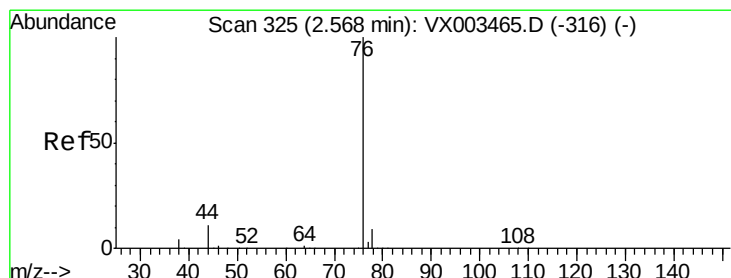
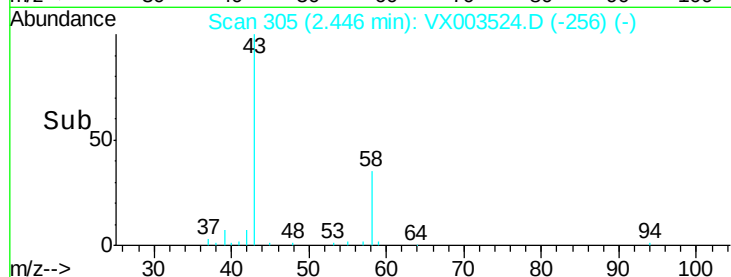
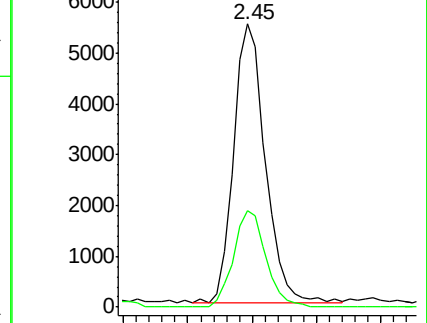
43 100

58 34.6 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: 0.43 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003524.D

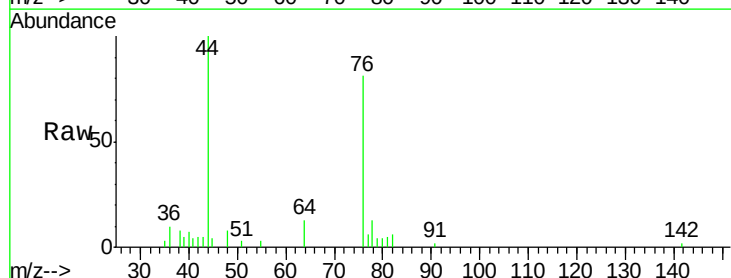
Acq: 20 Jul 2018 22:44

Tgt Ion: 76 Resp: 3174

Ion Ratio Lower Upper

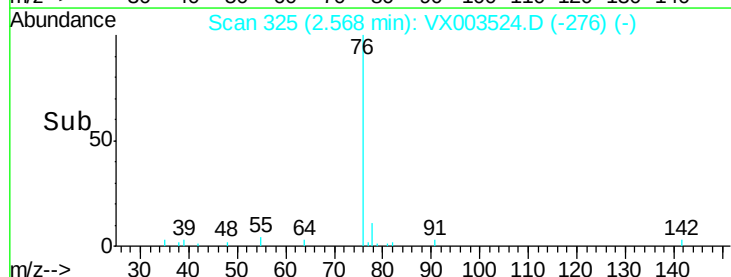
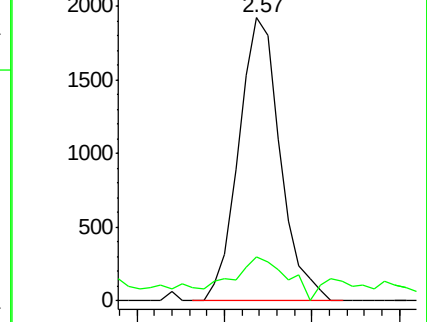
76 100

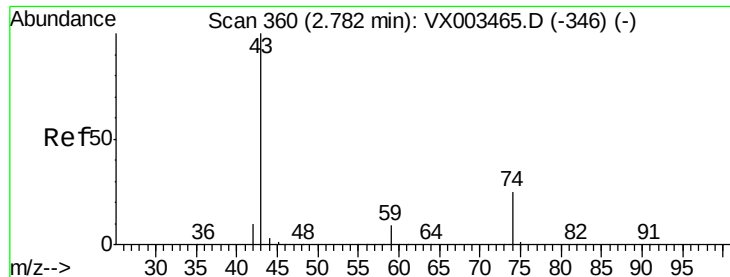
78 10.7 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

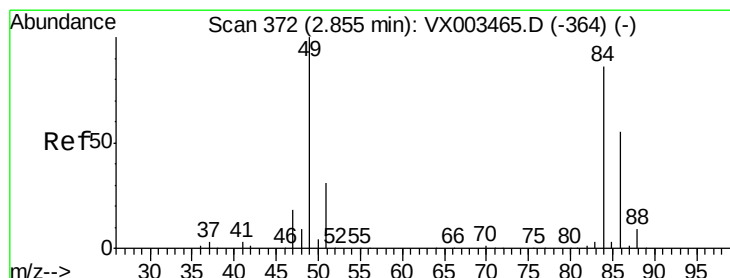
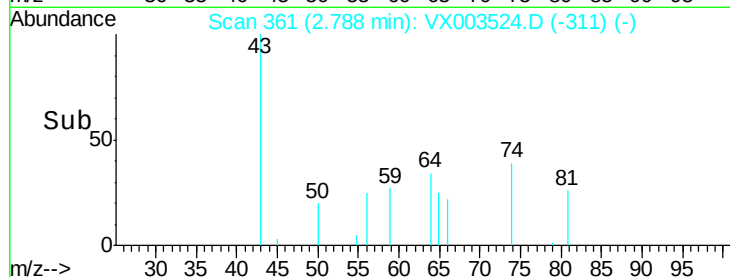
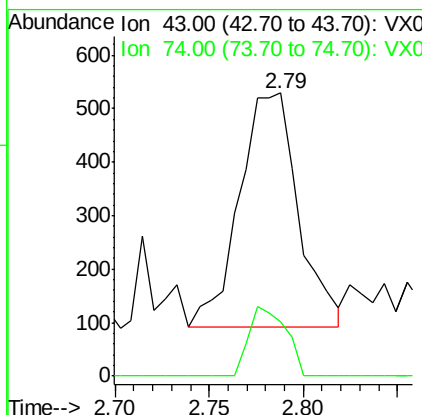
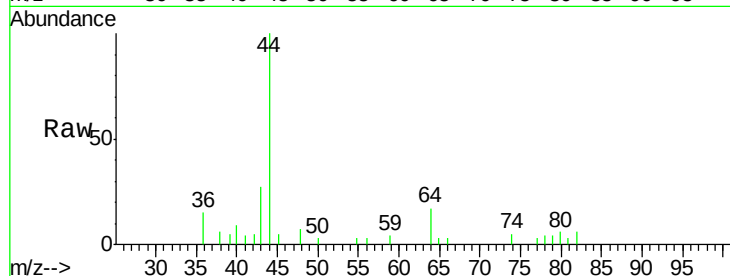




#18
Methyl Acetate
Concen: 0.25 ug/l
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX003524.D
Acq: 20 Jul 2018 22:44

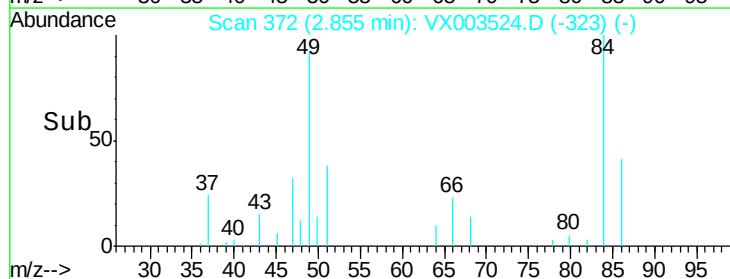
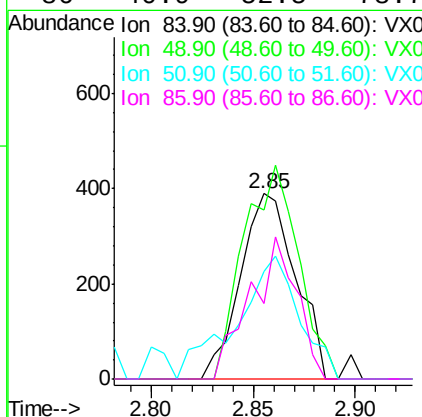
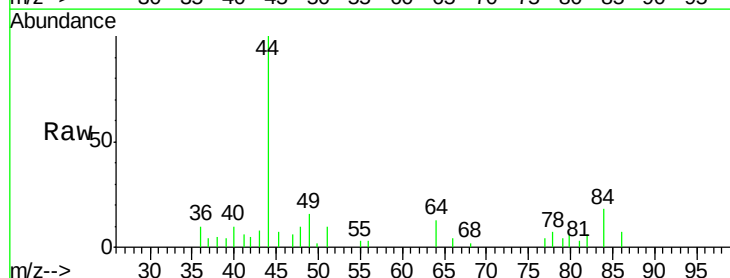
Instrument :
MSVOA_X
ClientSampled :
FB01-071318

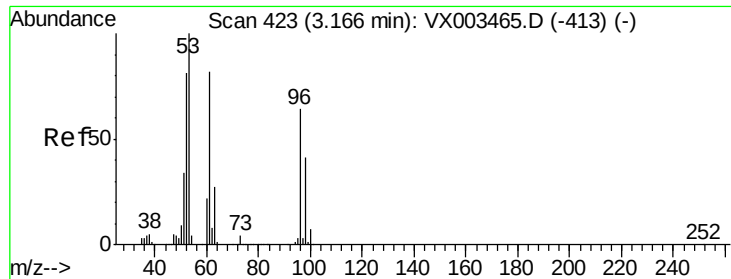
Tot Ion: 43 Resp: 947
Ion Ratio Lower Upper
43 100
74 18.7 16.7 25.1



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003524.D
Acq: 20 Jul 2018 22:44

Tgt Ion: 84 Resp: 733
Ion Ratio Lower Upper
84 100
49 91.5 107.8 161.6#
51 58.4 32.8 49.2#
86 40.9 52.5 78.7#





#21

trans-1,2-Dichloroethene

Concen: 0.20 ug/l

RT: 3.17 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX003524.D

Acq: 20 Jul 2018 22:44

Instrument :

MSVOA_X

ClientSampleId :

FB01-071318

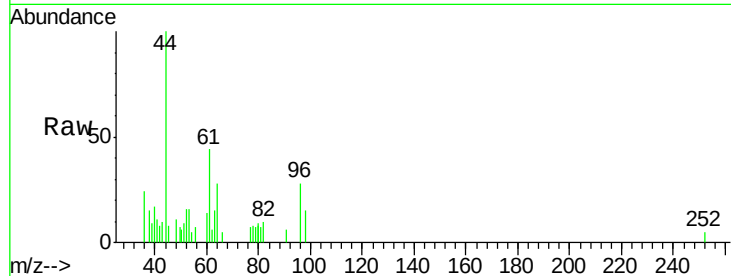
Tot Ion: 96 Resp: 610

Ion Ratio Lower Upper

96 100

61 154.3 117.0 175.4

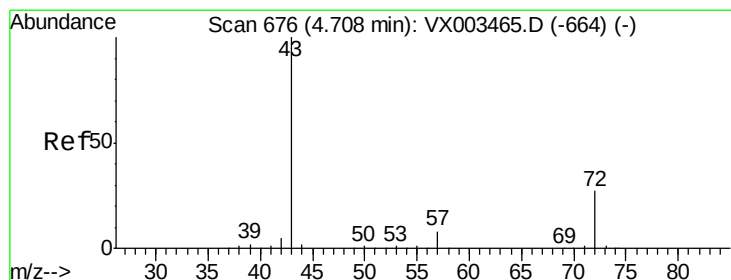
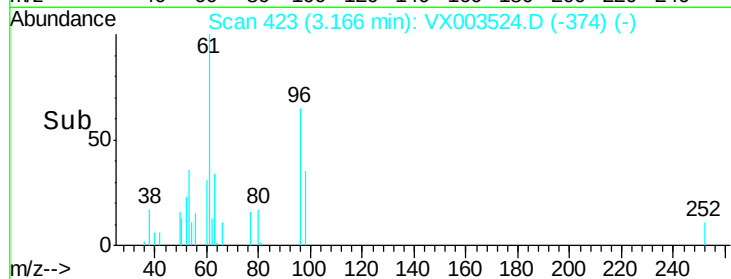
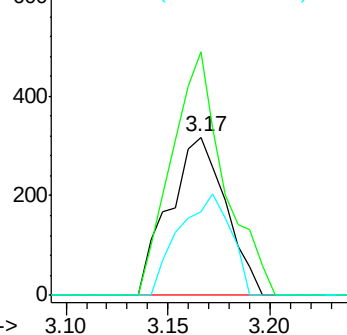
98 53.3 52.4 78.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 0.99 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX003524.D

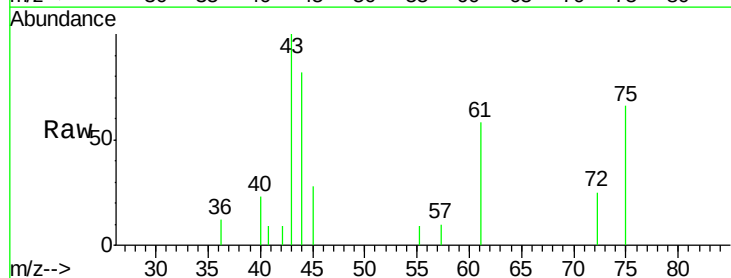
Acq: 20 Jul 2018 22:44

Tgt Ion: 43 Resp: 1984

Ion Ratio Lower Upper

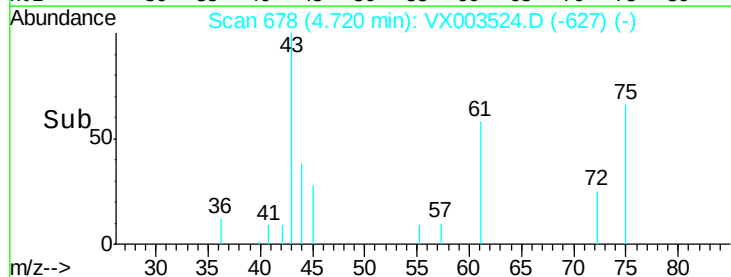
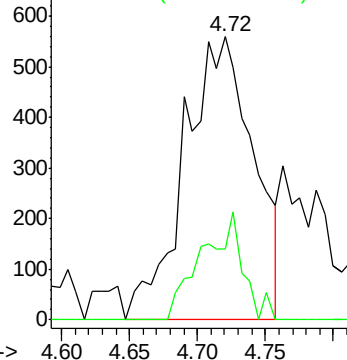
43 100

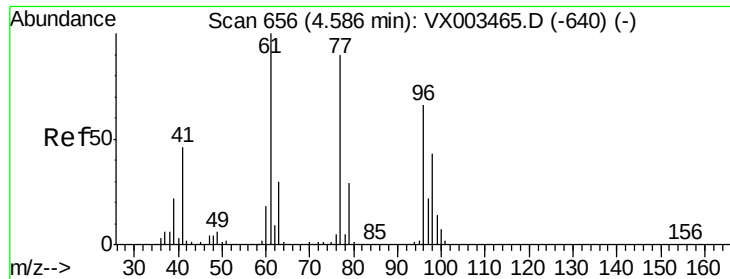
72 25.2 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#26

2,2-Dichloropropane

Concen: 0.29 ug/l

RT: 4.78 min Scan# 688

Delta R.T. 0.20 min

Lab File: VX003524.D

Acq: 20 Jul 2018 22:44

Instrument :

MSVOA_X

ClientSampleId :

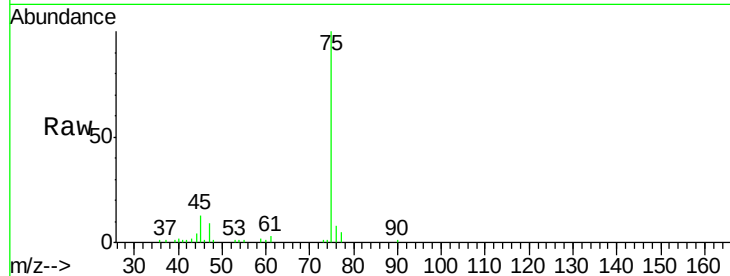
FB01-071318

Tot Ion: 77 Resp: 1164

Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.5#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.78

400

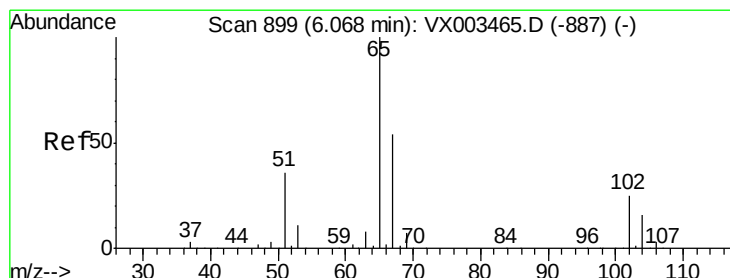
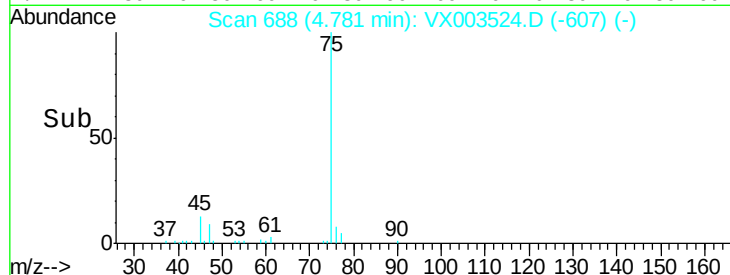
300

200

100

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 54.54 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003524.D

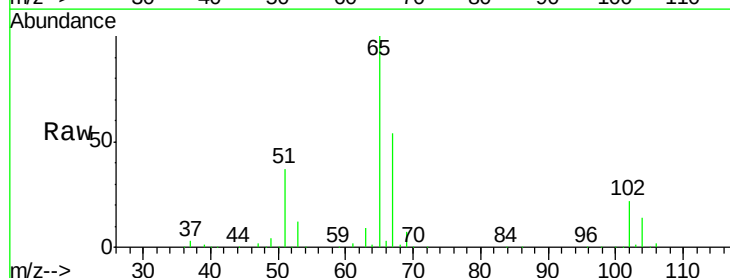
Acq: 20 Jul 2018 22:44

Tgt Ion: 65 Resp: 171665

Ion Ratio Lower Upper

65 100

67 54.0 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

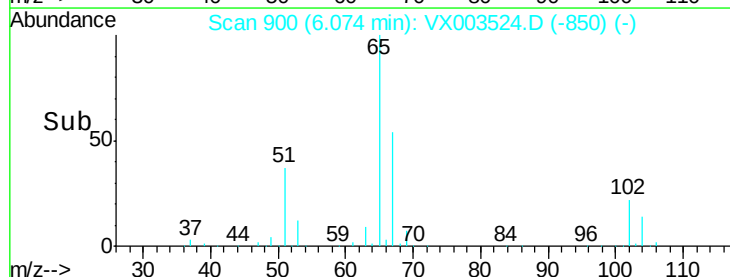
60000

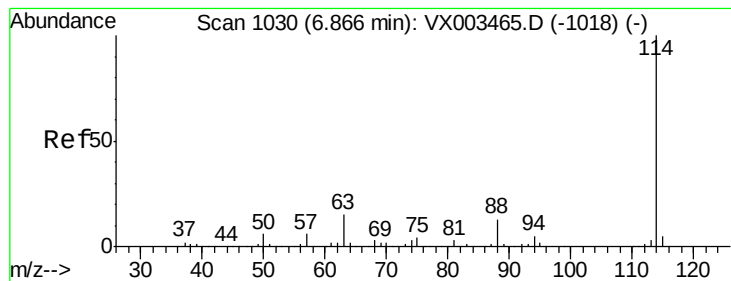
40000

20000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX003524.D

Acq: 20 Jul 2018 22:44

Instrument :

MSVOA_X

ClientSampleId :

FB01-071318

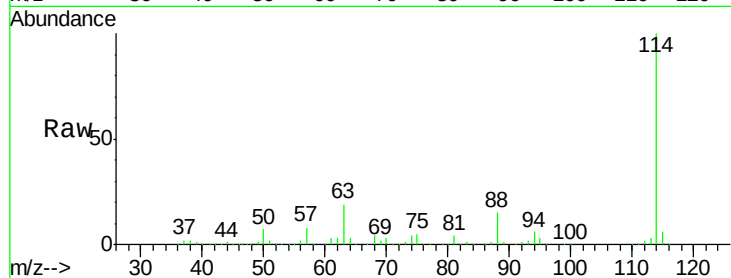
Tot Ion:114 Resp: 402612

Ion Ratio Lower Upper

114 100

63 19.5 0.0 41.4

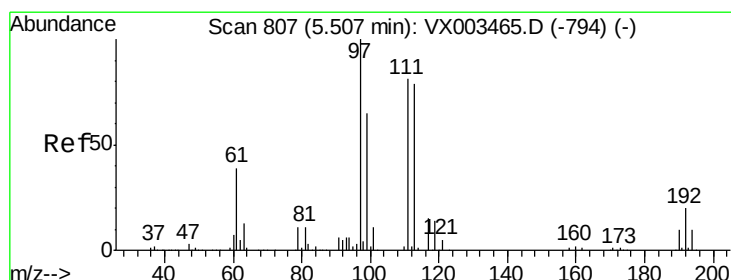
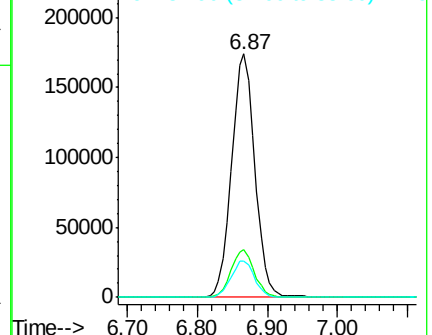
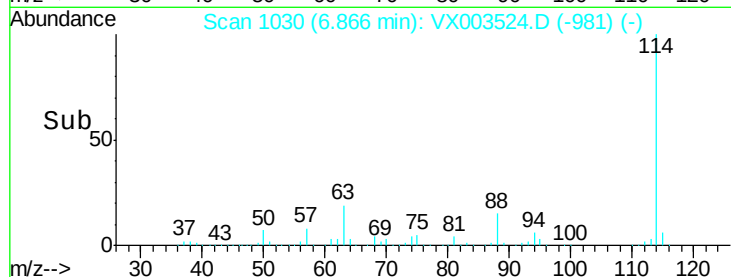
88 15.0 0.0 30.0



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: 49.71 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003524.D

Acq: 20 Jul 2018 22:44

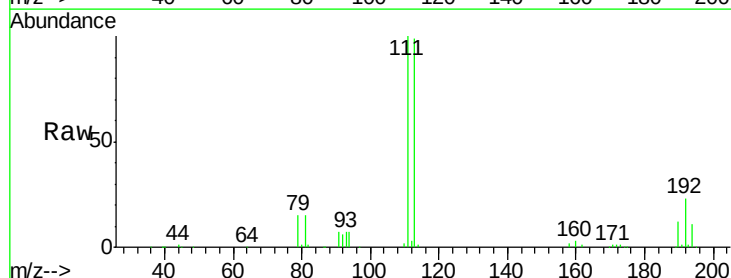
Tgt Ion:113 Resp: 152430

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

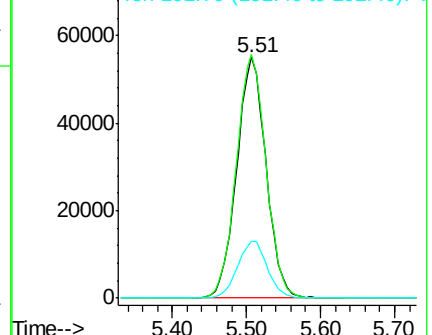
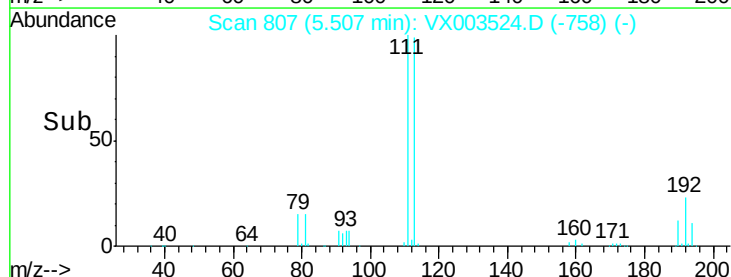
192 23.9 19.1 28.7

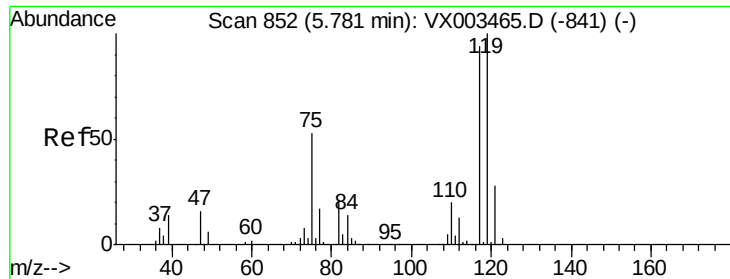


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.44 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003524.D

Acq: 20 Jul 2018 22:44

Instrument :

MSVOA_X

ClientSampled :

FB01-071318

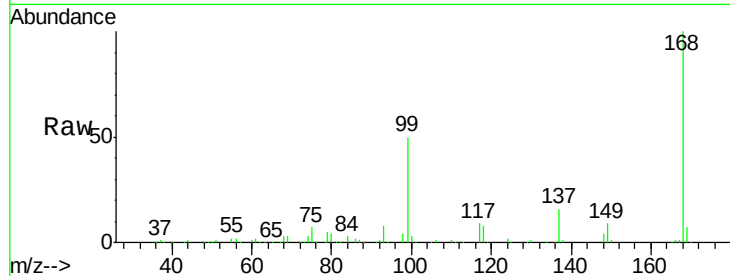
Tot Ion:117 Resp: 23175

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

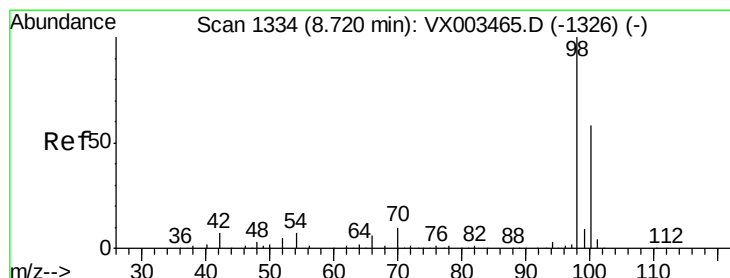
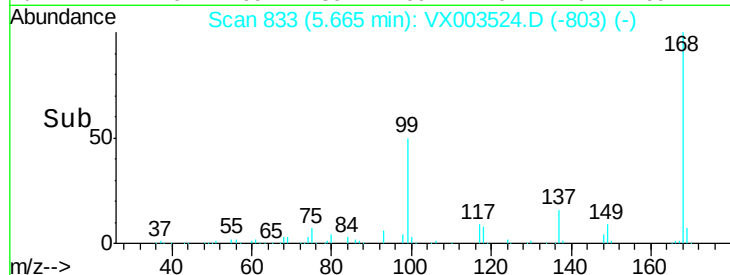
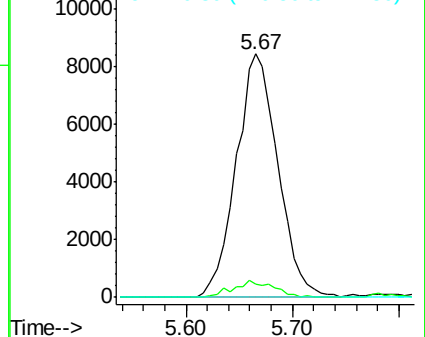
121 0.0 24.4 36.6#



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: 50.02 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003524.D

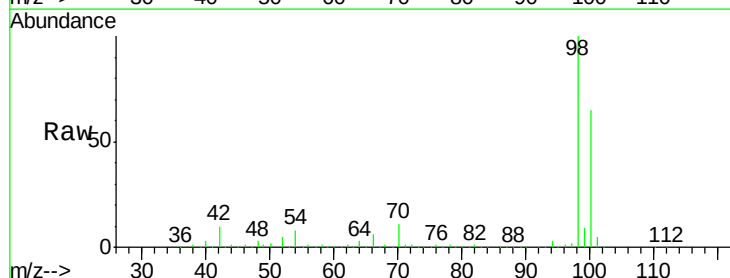
Acq: 20 Jul 2018 22:44

Tgt Ion: 98 Resp: 576516

Ion Ratio Lower Upper

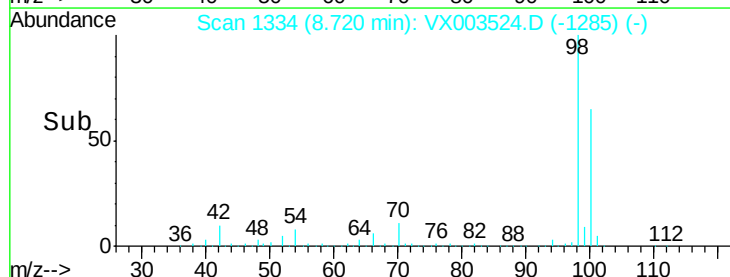
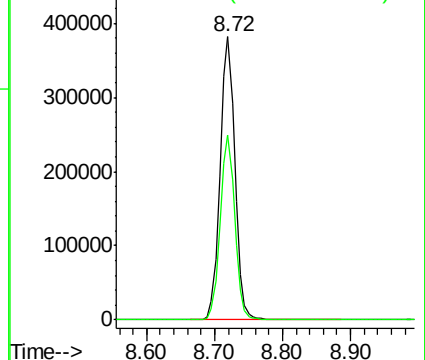
98 100

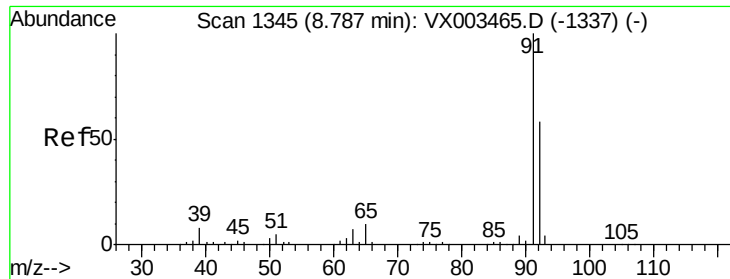
100 64.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 0.44 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX003524.D

Acq: 20 Jul 2018 22:44

Instrument :

MSVOA_X

ClientSampleId :

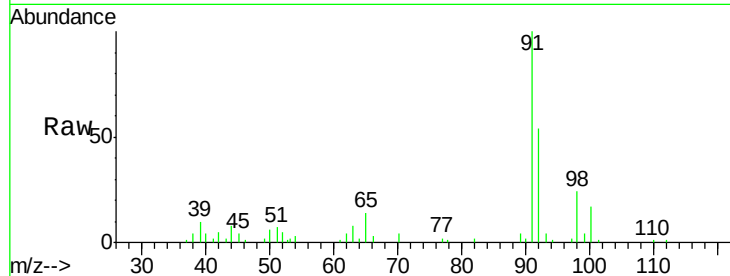
FB01-071318

Tot Ion: 92 Resp: 3635

Ion Ratio Lower Upper

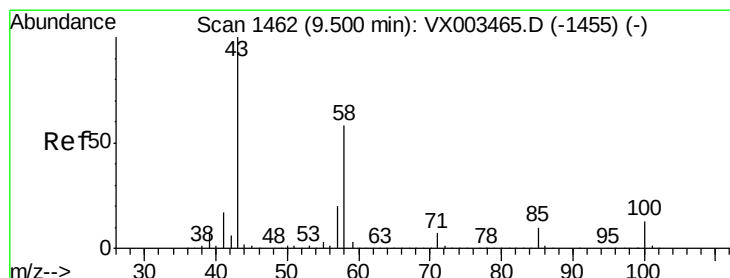
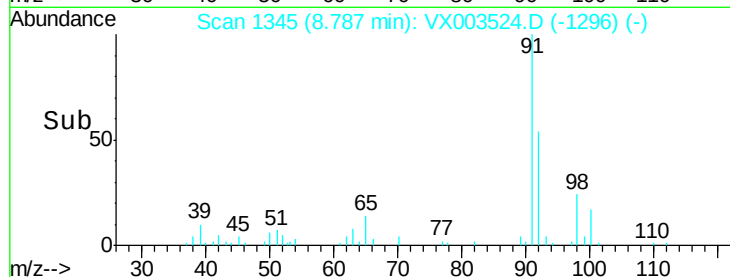
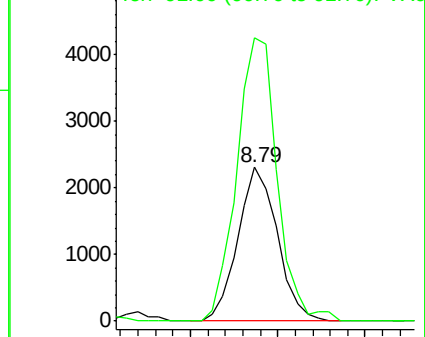
92 100

91 187.8 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#59

2-Hexanone

Concen: 0.32 ug/l

RT: 9.51 min Scan# 1463

Delta R.T. 0.01 min

Lab File: VX003524.D

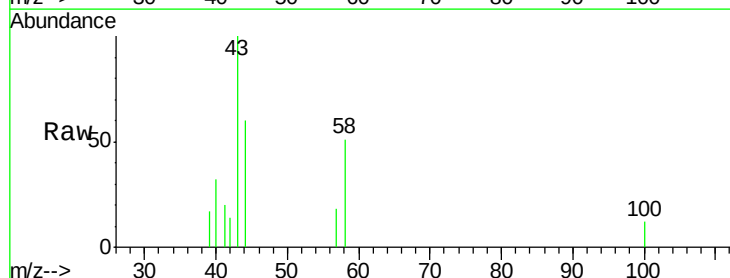
Acq: 20 Jul 2018 22:44

Tgt Ion: 43 Resp: 969

Ion Ratio Lower Upper

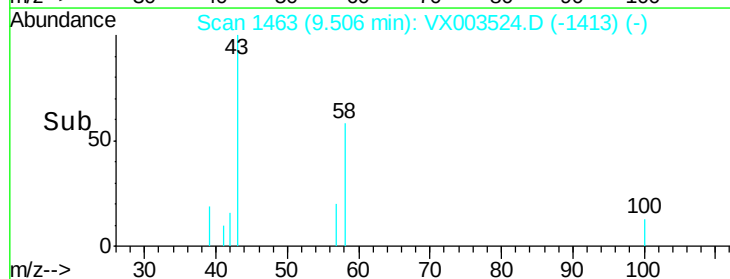
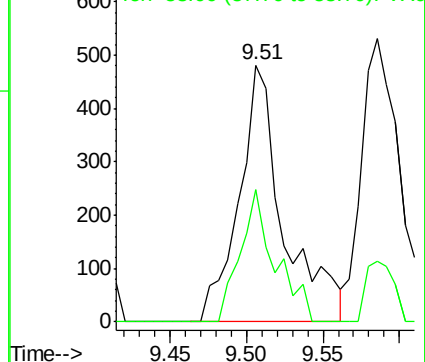
43 100

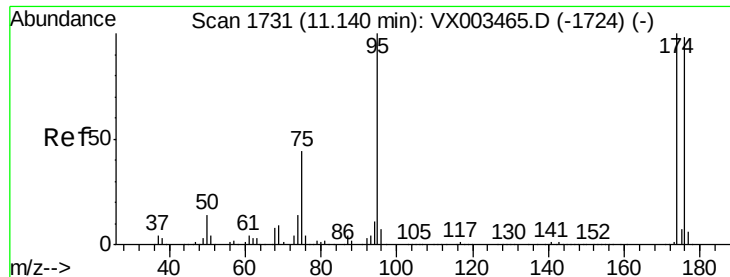
58 40.4 24.6 73.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

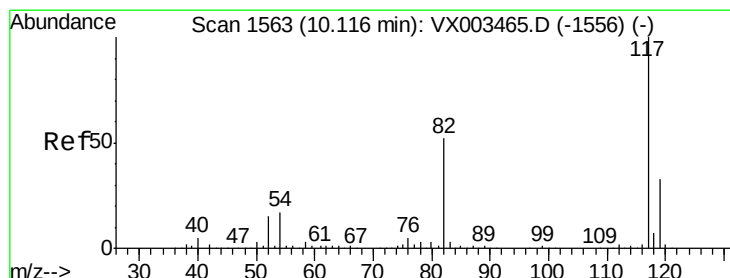
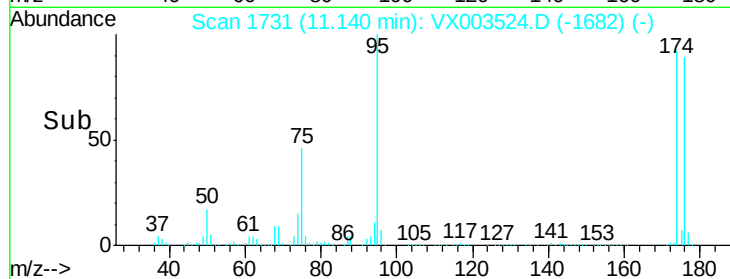
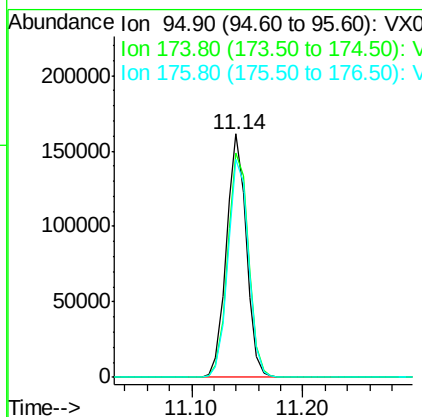
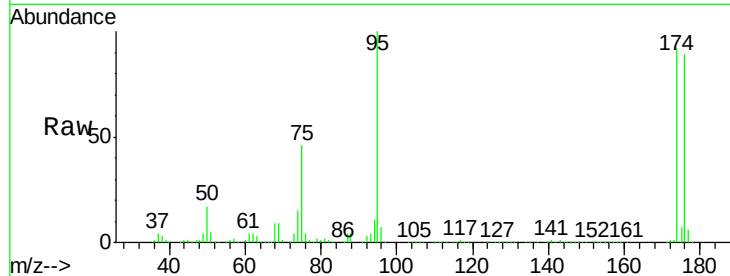




#62
4-Bromofluorobenzene
Concen: 47.36 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003524.D
Acq: 20 Jul 2018 22:44

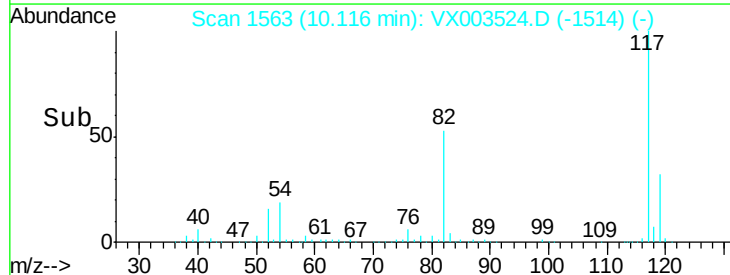
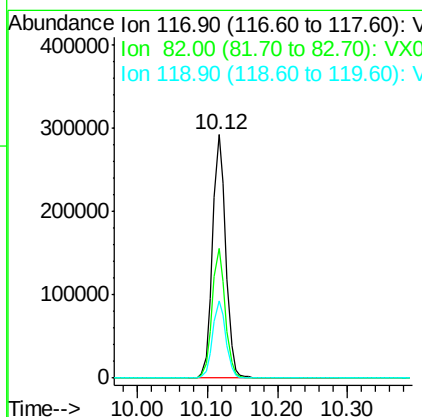
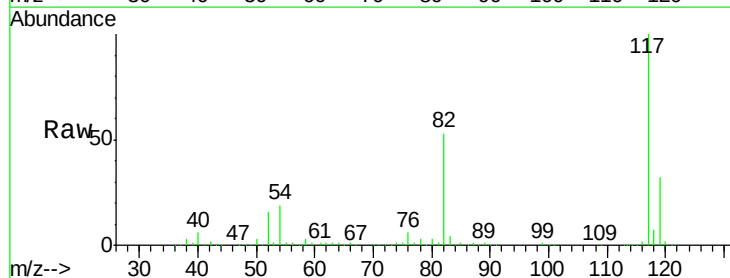
Instrument :
MSVOA_X
ClientSampleId :
FB01-071318

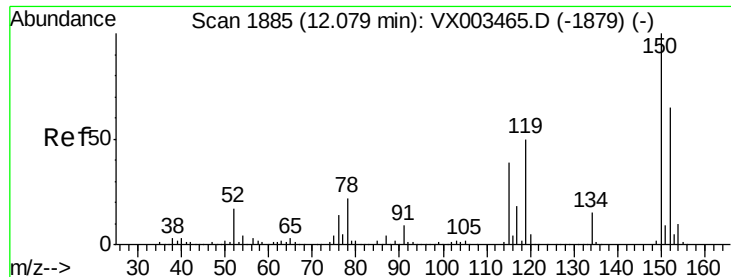
Tot Ion: 95 Resp: 199219
Ion Ratio Lower Upper
95 100
174 96.7 0.0 187.4
176 92.5 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003524.D
Acq: 20 Jul 2018 22:44

Tgt Ion: 117 Resp: 383360
Ion Ratio Lower Upper
117 100
82 53.1 45.0 67.4
119 32.0 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: VX003524.D

Acq: 20 Jul 2018 22:44

Instrument :

MSVOA_X

ClientSampleId :

FB01-071318

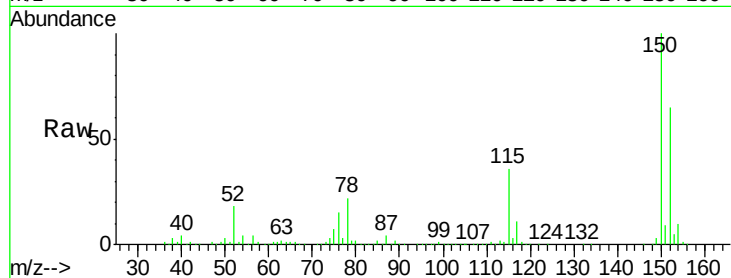
Tot Ion:152 Resp: 210634

Ion Ratio Lower Upper

152 100

115 54.2 40.1 120.2

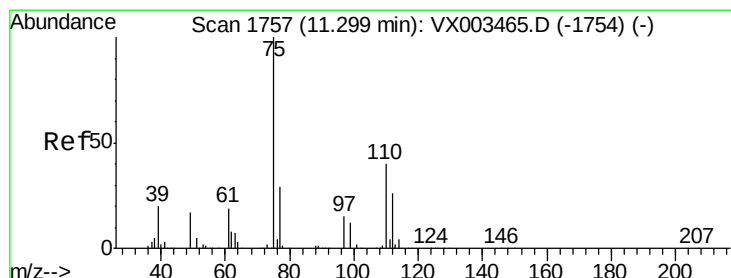
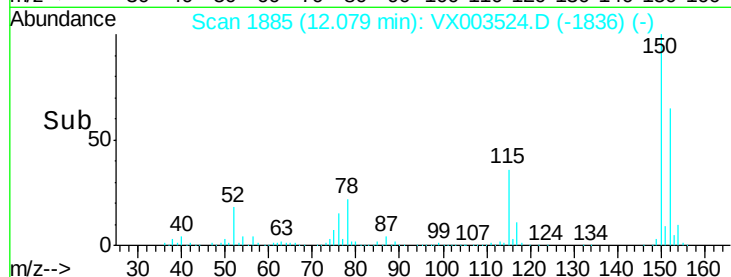
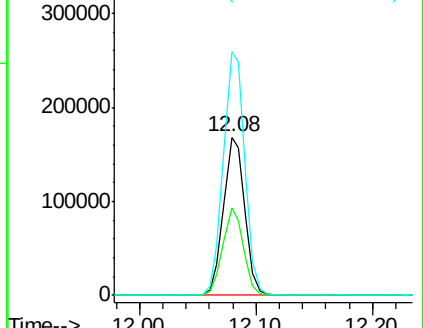
150 156.4 0.0 347.2



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: 24.82 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003524.D

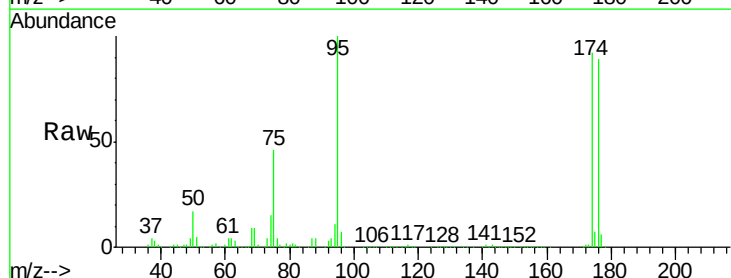
Acq: 20 Jul 2018 22:44

Tgt Ion: 75 Resp: 93936

Ion Ratio Lower Upper

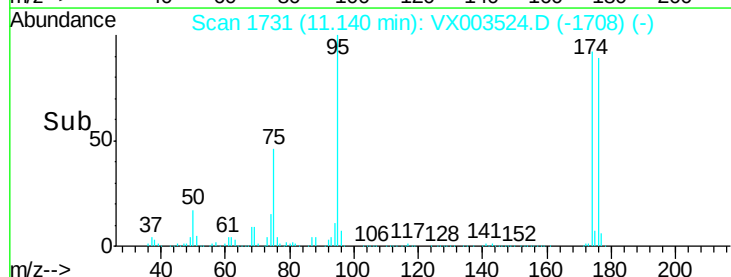
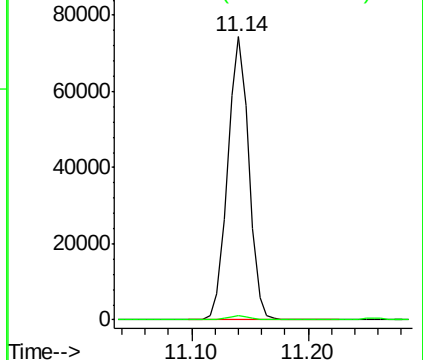
75 100

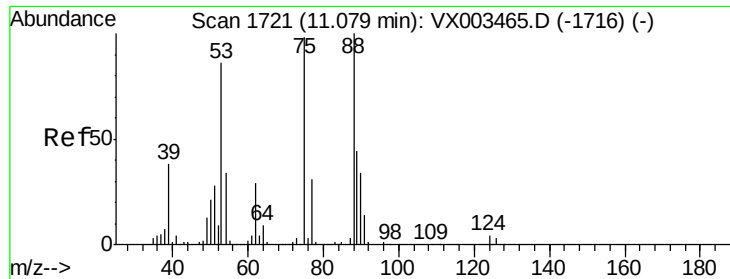
77 1.4 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

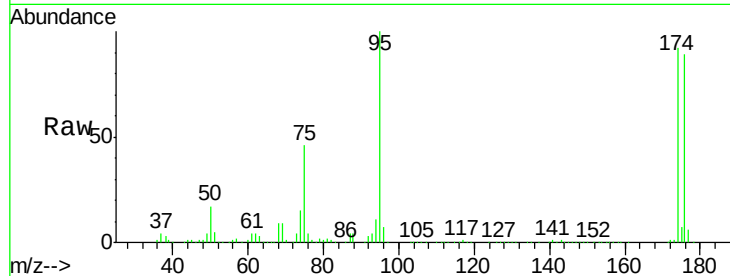




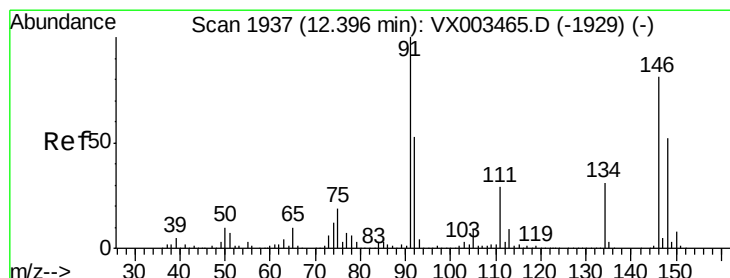
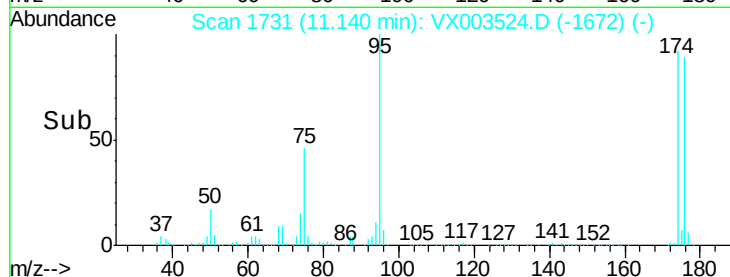
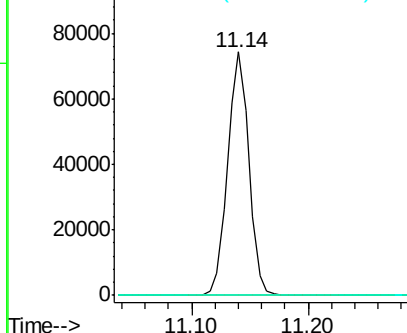
#81
trans-1,4-Dichloro-2-butene
Concen: 69.53 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX003524.D
Acq: 20 Jul 2018 22:44

Instrument :
MSVOA_X
ClientSampleId :
FB01-071318

Tot Ion: 75 Resp: 93936
Ion Ratio Lower Upper
75 100
53 0.2 86.8 130.2#
89 0.0 38.2 57.2#

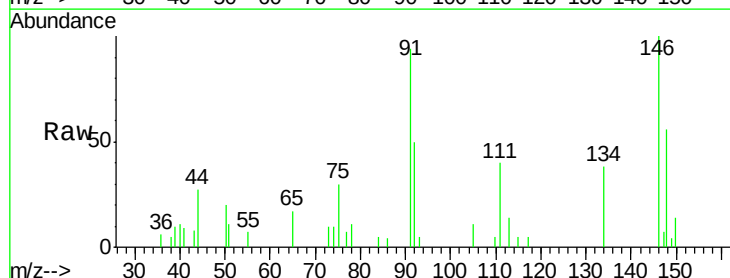


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0

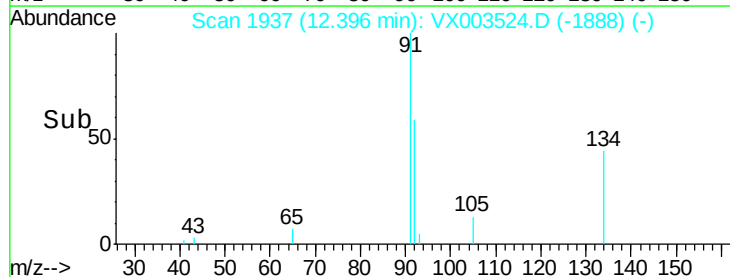
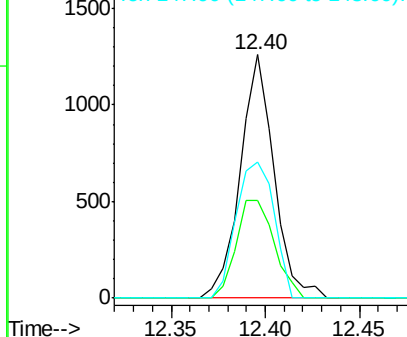


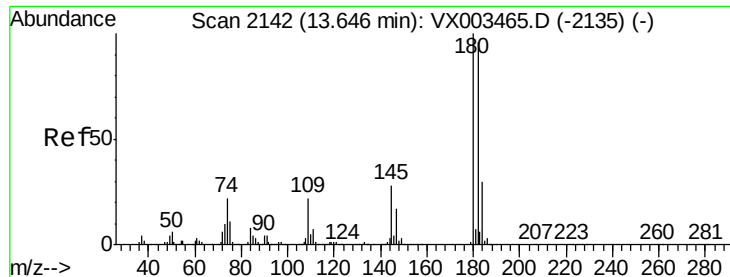
#91
1,2-Dichlorobenzene
Concen: 0.21 ug/l
RT: 12.40 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VX003524.D
Acq: 20 Jul 2018 22:44

Tgt Ion: 146 Resp: 1570
Ion Ratio Lower Upper
146 100
111 45.2 19.4 58.1
148 62.7 31.7 95.1



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

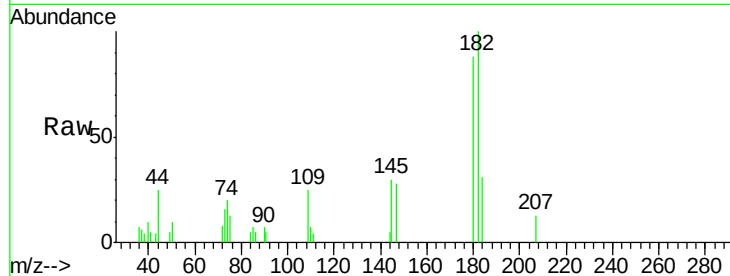




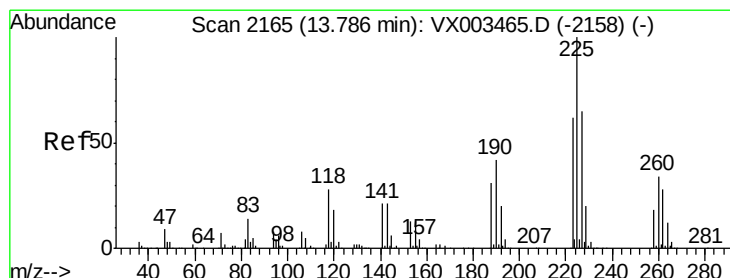
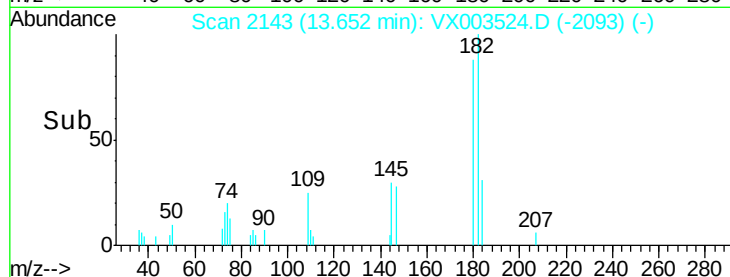
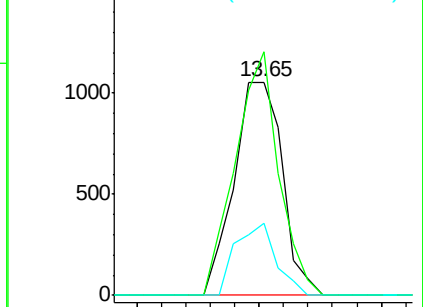
#93
 1,2,4-Trichlorobenzene
 Concen: 0.26 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. 0.01 min
 Lab File: VX003524.D
 Acq: 20 Jul 2018 22:44

Instrument :
 MSVOA_X
 ClientSampleId :
 FB01-071318

Tot Ion:180 Resp: 1456
 Ion Ratio Lower Upper
 180 100
 182 102.7 47.7 143.1
 145 28.2 14.1 42.4

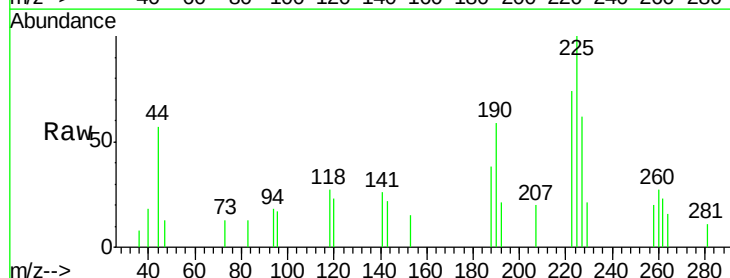


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

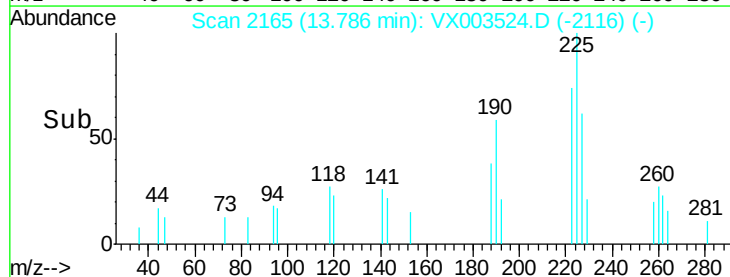
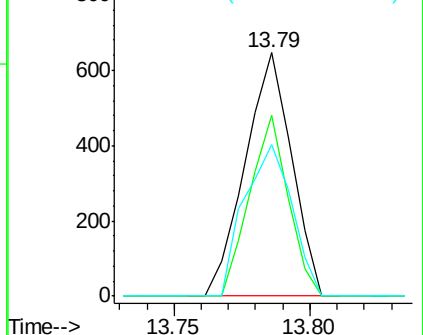


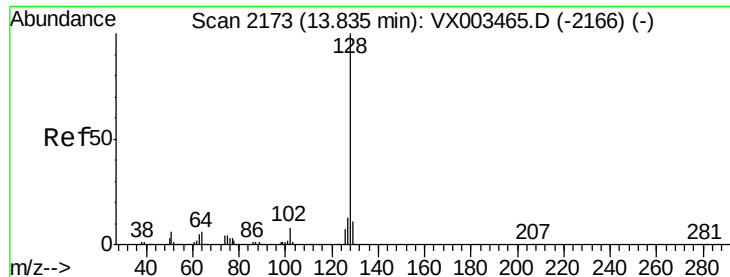
#94
 Hexachlorobutadiene
 Concen: 0.29 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. -0.00 min
 Lab File: VX003524.D
 Acq: 20 Jul 2018 22:44

Tgt Ion:225 Resp: 764
 Ion Ratio Lower Upper
 225 100
 223 61.9 31.6 95.0
 227 64.0 32.4 97.2



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.21 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. -0.00 min

Lab File: VX003524.D

Acq: 20 Jul 2018 22:44

Instrument :

MSVOA_X

ClientSampleId :

FB01-071318

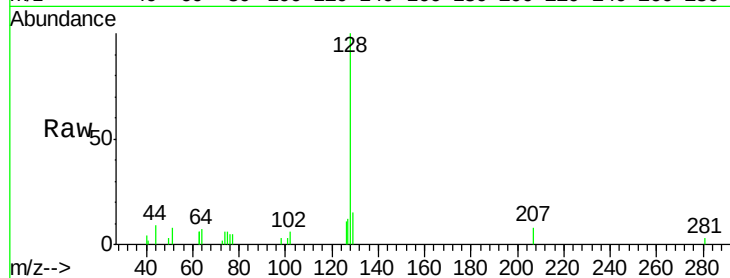
Tot Ion:128 Resp: 3131

Ion Ratio Lower Upper

128 100

127 14.3 10.4 15.6

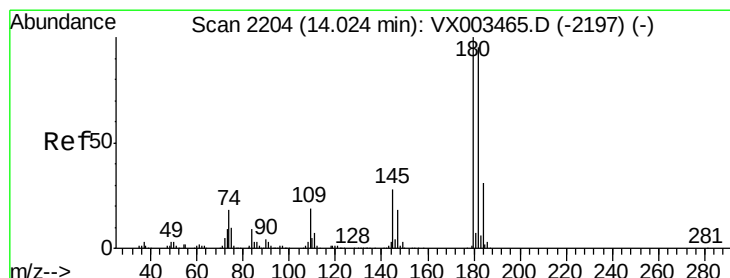
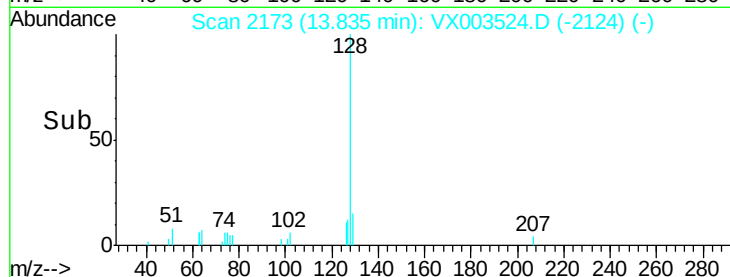
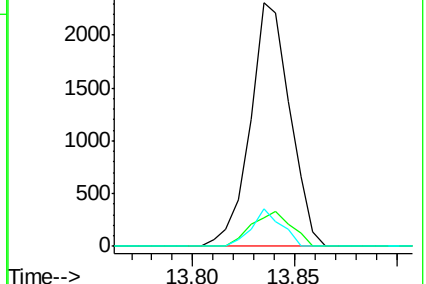
129 11.5 8.6 13.0



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



#96

1,2,3-Trichlorobenzene

Concen: 0.23 ug/l

RT: 14.02 min Scan# 2204

Delta R.T. -0.00 min

Lab File: VX003524.D

Acq: 20 Jul 2018 22:44

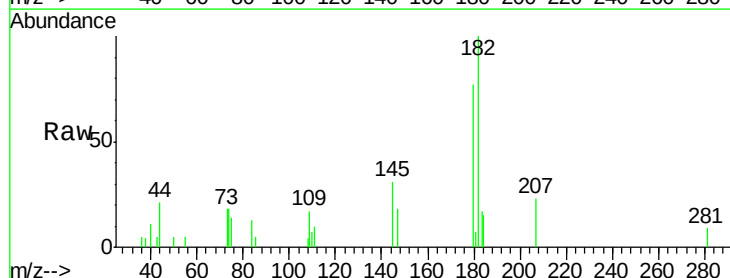
Tgt Ion:180 Resp: 1254

Ion Ratio Lower Upper

180 100

182 109.9 48.0 144.0

145 33.8 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

