

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX103018\
 Data File : VX005687.D
 Acq On : 30 Oct 2018 13:14
 Operator : JC/MD
 Sample : J5204-16
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU-01-102518-B

Quant Time: Oct 30 15:56:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	270992	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	411177	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	329223	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	157176	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	161519	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
35) Dibromofluoromethane	5.50	113	134401	48.27	ug/l	0.00
Spiked Amount			Recovery	=	96.54%	
50) Toluene-d8	8.71	98	433736	43.36	ug/l	0.00
Spiked Amount			Recovery	=	86.72%	
62) 4-Bromofluorobenzene	11.14	95	144179	38.16	ug/l	0.00
Spiked Amount			Recovery	=	76.32%	

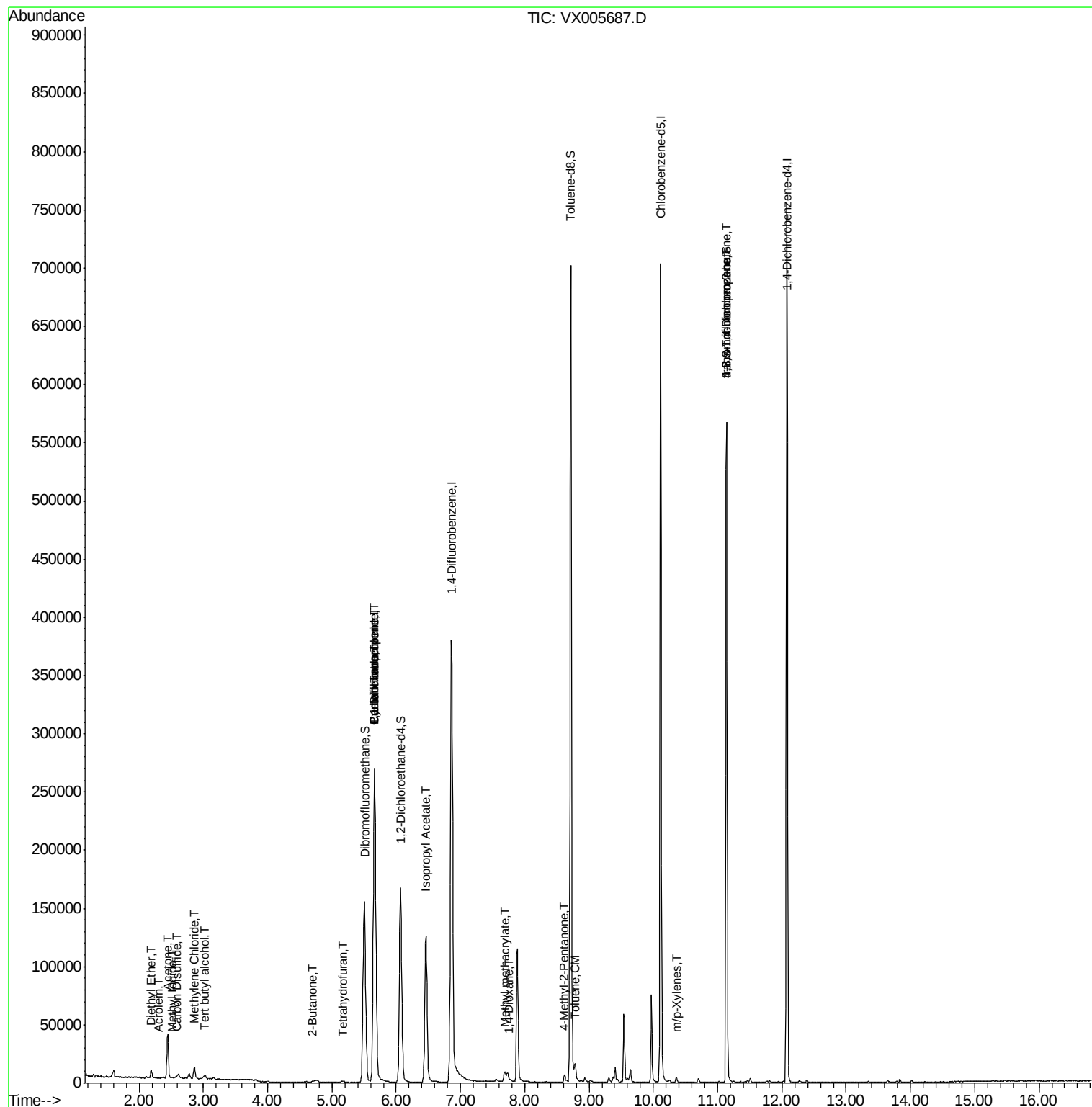
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.19	74	2245	1.21	ug/l	90
10) Methyl Iodide	2.52	142	661	2.95	ug/l #	93
11) Tert butyl alcohol	3.02	59	2480	2.79	ug/l #	72
13) Acrolein	2.29	56	198	0.44	ug/l #	55
16) Acetone	2.45	43	40156	22.97	ug/l	95
17) Carbon Disulfide	2.57	76	1558	0.20	ug/l #	79
18) Methyl Acetate	2.78	43	5327	Below	Cal	95
20) Methylene Chloride	2.86	84	4078	1.39	ug/l	87
25) 2-Butanone	4.70	43	2443	0.92	ug/l	95
29) Tetrahydrofuran	5.16	42	1246	0.72	ug/l #	74
31) Cyclohexane	5.66	56	4823	1.08	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18071	4.53	ug/l #	50
38) Carbon Tetrachloride	5.67	117	25362	6.03	ug/l #	16
43) Isopropyl Acetate	6.46	43	169503	22.21	ug/l	99
48) Methyl methacrylate	7.69	41	5372	1.45	ug/l #	24
49) 1,4-Dioxane	7.76	88	20	0.25	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	3023	0.59	ug/l #	49
52) Toluene	8.79	92	3118	0.45	ug/l	97
68) m/p-Xylenes	10.36	106	1010	0.23	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	72530	21.78	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	72530	71.17	ug/l #	9

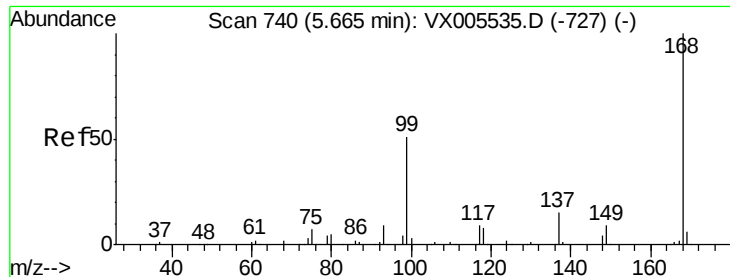
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Oct 25 02:52:45 2018
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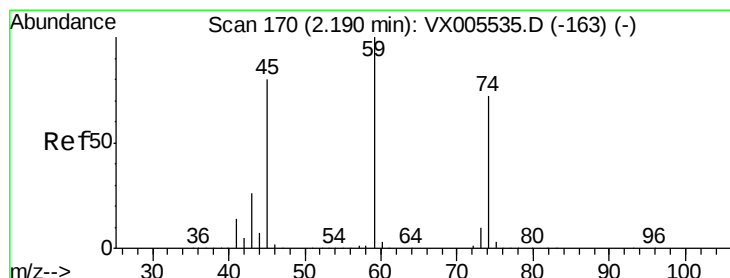
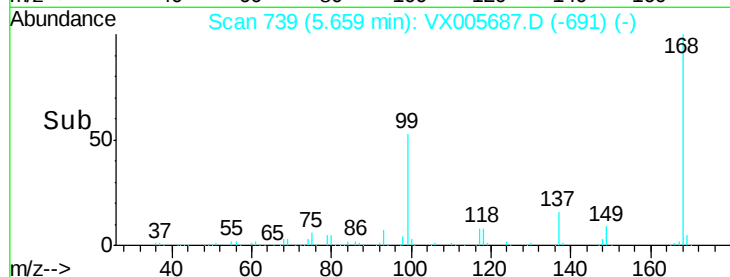
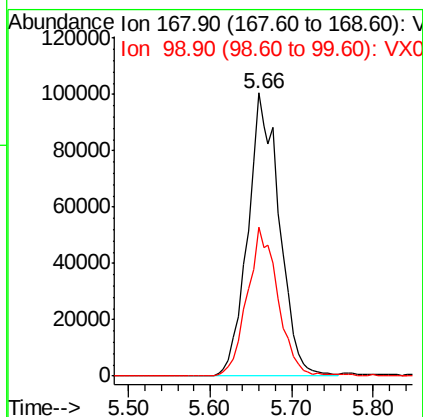
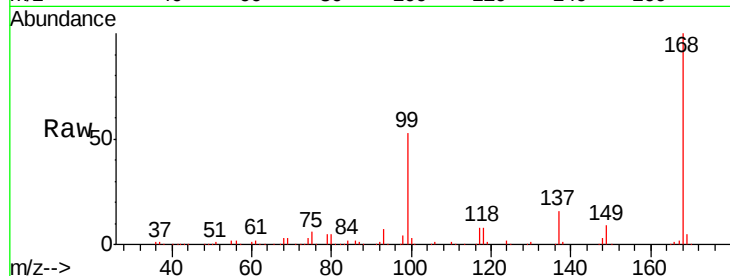




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.01 min
Lab File: VX005687.D
Acq: 30 Oct 2018 13:14

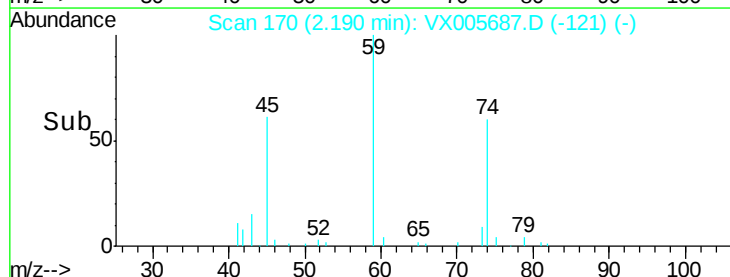
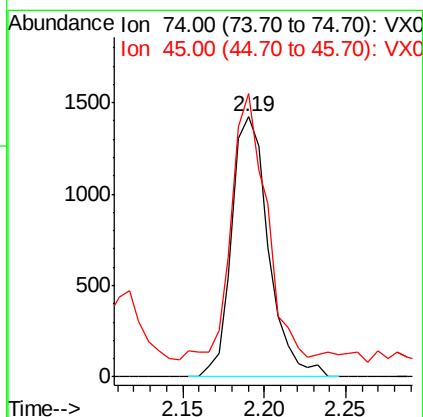
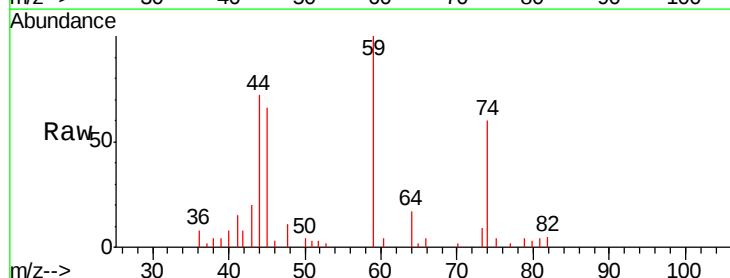
Instrument :
MSVOA_X
ClientSampleId :
SU-01-102518-B

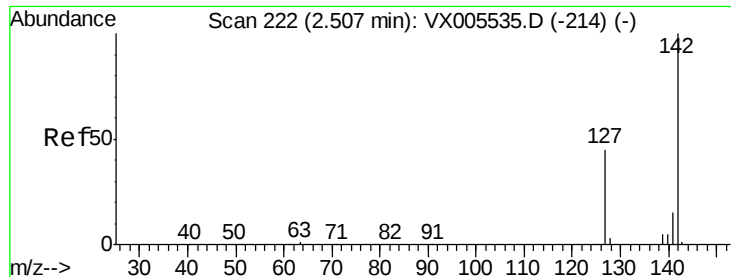
Tgt Ion: 168 Resp: 270992
Ion Ratio Lower Upper
168 100
99 52.8 40.7 61.1



#8
Diethyl Ether
Concen: 1.21 ug/l
RT: 2.19 min Scan# 170
Delta R.T. -0.00 min
Lab File: VX005687.D
Acq: 30 Oct 2018 13:14

Tgt Ion: 74 Resp: 2245
Ion Ratio Lower Upper
74 100
45 97.7 54.1 162.3

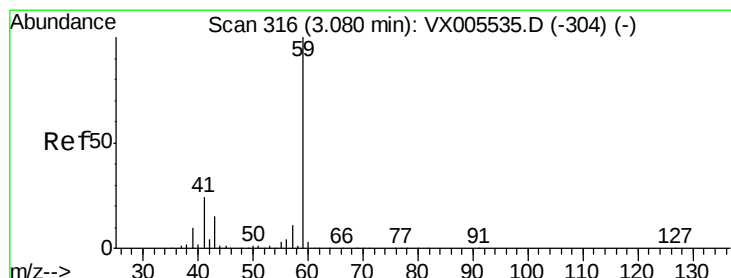
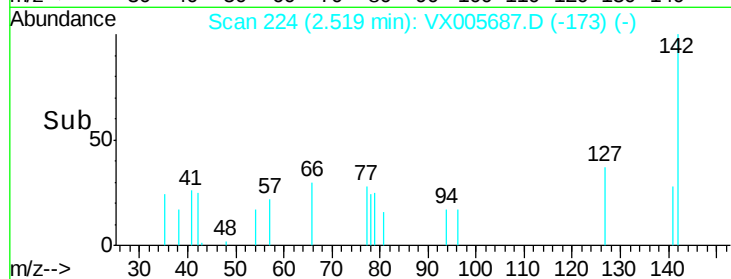
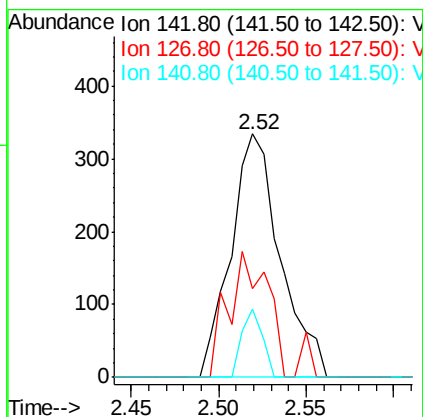
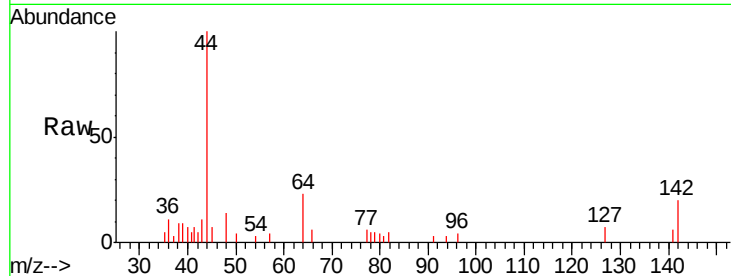




#10
Methyl Iodide
Concen: 2.95 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX005687.D
Acq: 30 Oct 2018 13:14

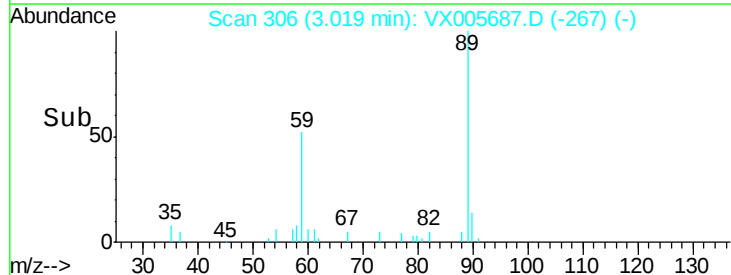
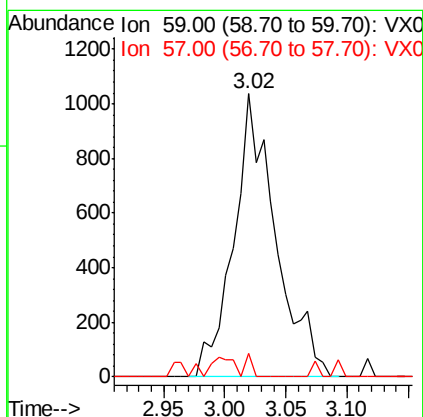
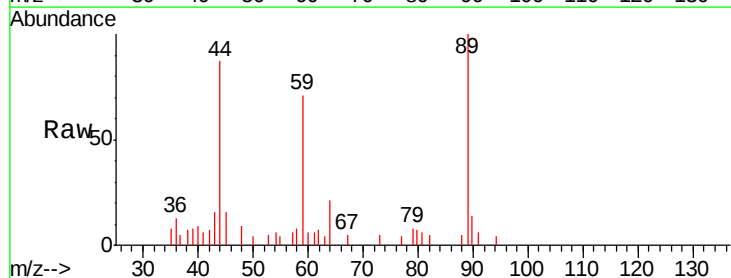
Instrument :
MSVOA_X
ClientSampleId :
SU-01-102518-B

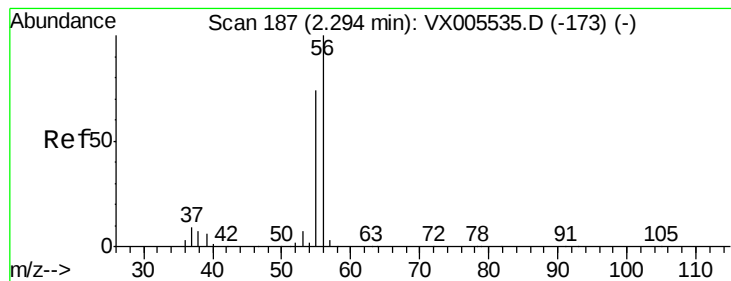
Tgt Ion:142 Resp: 661
Ion Ratio Lower Upper
142 100
127 40.7 36.0 54.0
141 11.5 11.7 17.5#



#11
Tert butyl alcohol
Concen: 2.79 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005687.D
Acq: 30 Oct 2018 13:14

Tgt Ion: 59 Resp: 2480
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#13

Acrolein

Concen: 0.44 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX005687.D

Acq: 30 Oct 2018 13:14

Instrument :

MSVOA_X

ClientSampleId :

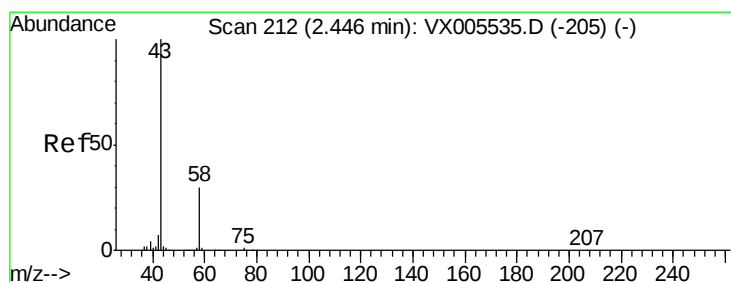
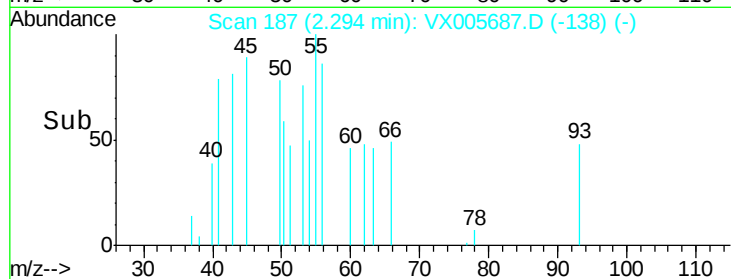
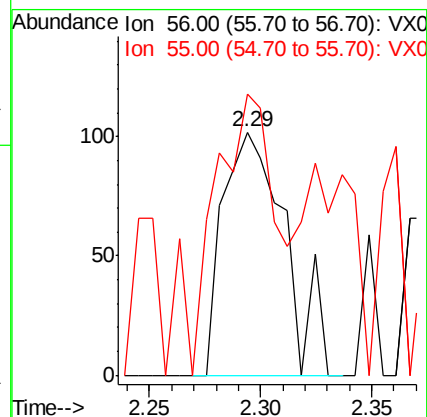
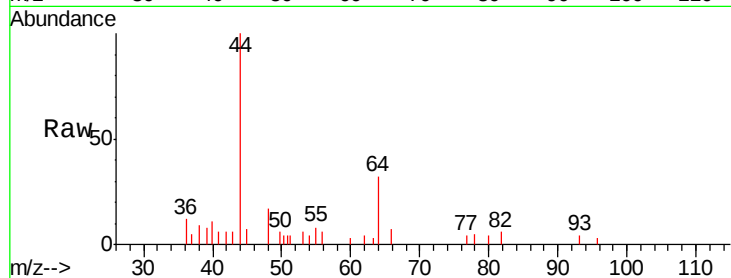
SU-01-102518-B

Tgt Ion: 56 Resp: 198

Ion Ratio Lower Upper

56 100

55 109.1 57.3 85.9#



#16

Acetone

Concen: 22.97 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005687.D

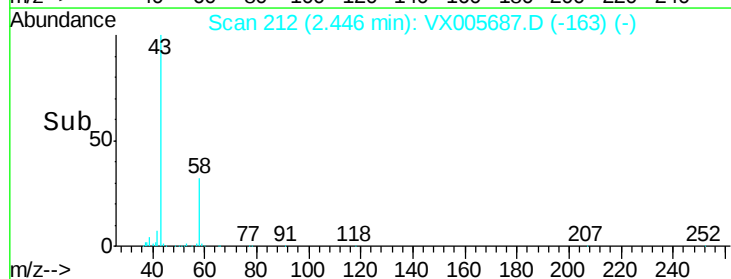
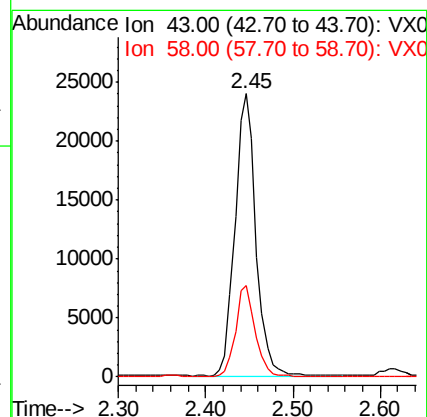
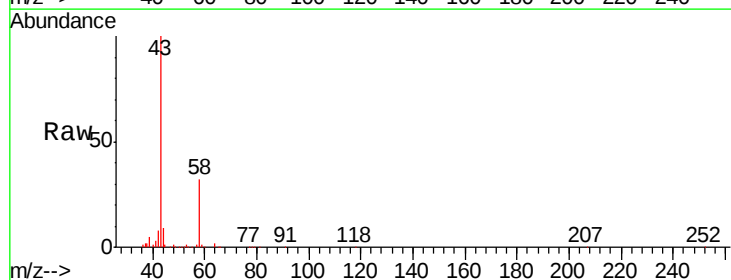
Acq: 30 Oct 2018 13:14

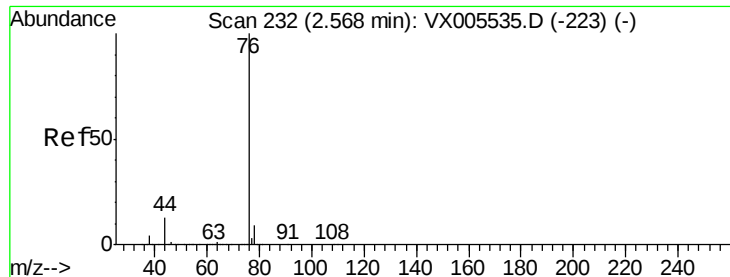
Tgt Ion: 43 Resp: 40156

Ion Ratio Lower Upper

43 100

58 32.2 23.8 35.6





#17

Carbon Disulfide

Concen: 0.20 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX005687.D

Acq: 30 Oct 2018 13:14

Instrument :

MSVOA_X

ClientSampleId :

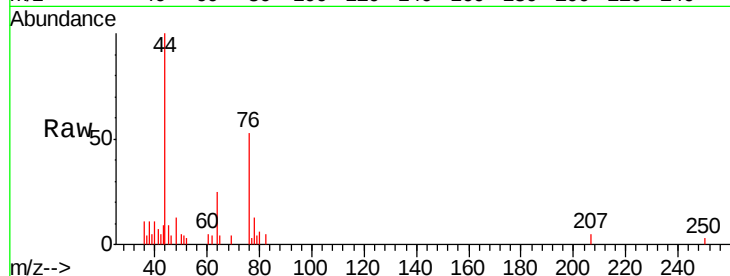
SU-01-102518-B

Tgt Ion: 76 Resp: 1558

Ion Ratio Lower Upper

76 100

78 16.7 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1000

800

600

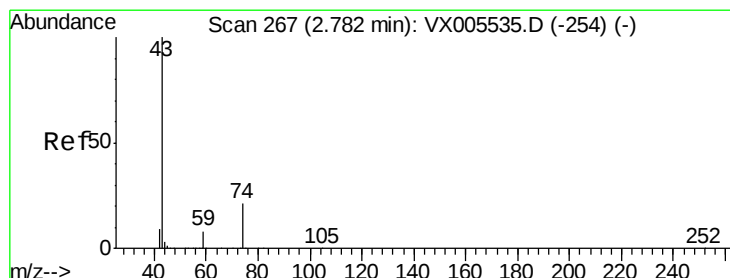
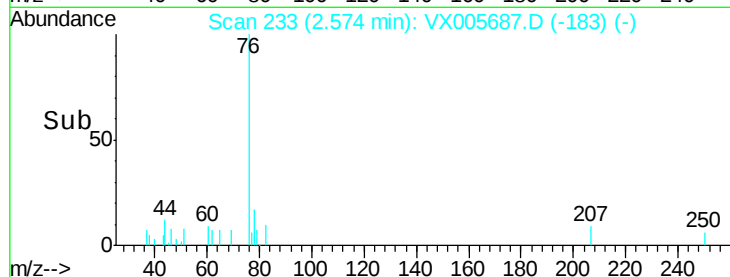
400

200

0

Time-->

2.50 2.55 2.60 2.65



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005687.D

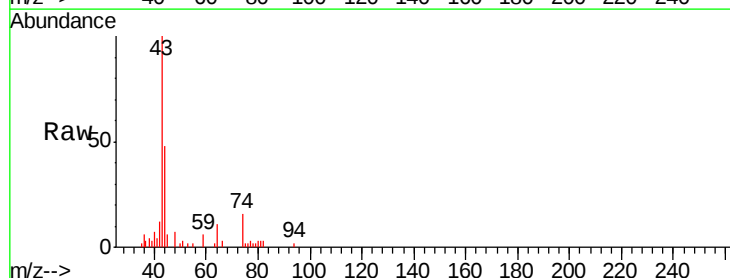
Acq: 30 Oct 2018 13:14

Tgt Ion: 43 Resp: 5327

Ion Ratio Lower Upper

43 100

74 23.1 16.8 25.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

3000

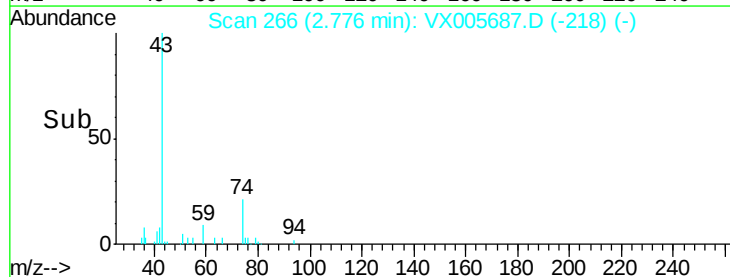
2000

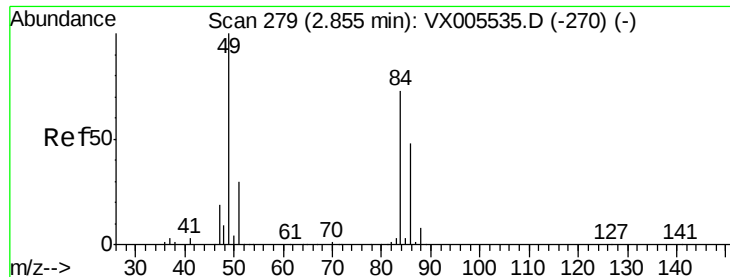
1000

0

Time-->

2.70 2.75 2.80 2.85

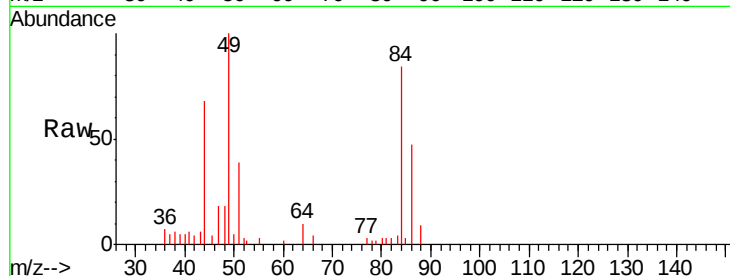




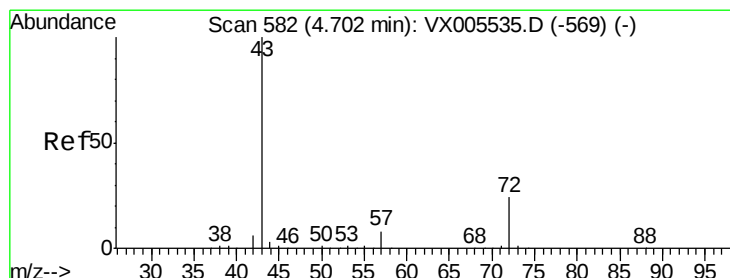
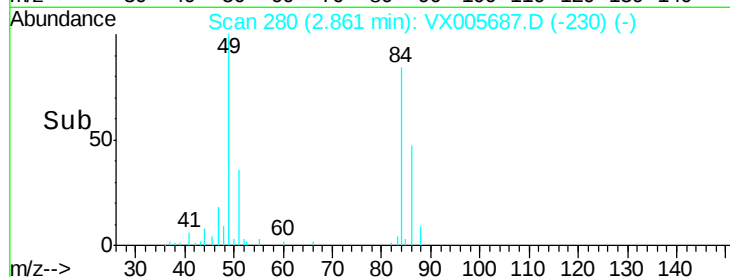
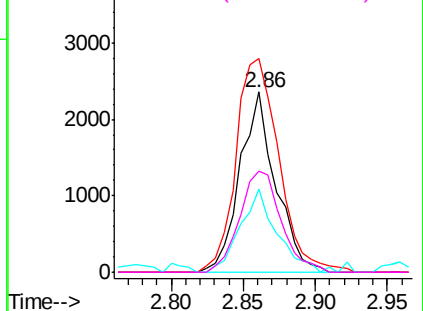
#20
Methylene Chloride
Concen: 1.39 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005687.D
Acq: 30 Oct 2018 13:14

Instrument :
MSVOA_X
ClientSampleId :
SU-01-102518-B

Tgt Ion: 84 Resp: 4078
Ion Ratio Lower Upper
84 100
49 118.7 109.5 164.3
51 46.1 33.3 49.9
86 55.9 52.7 79.1

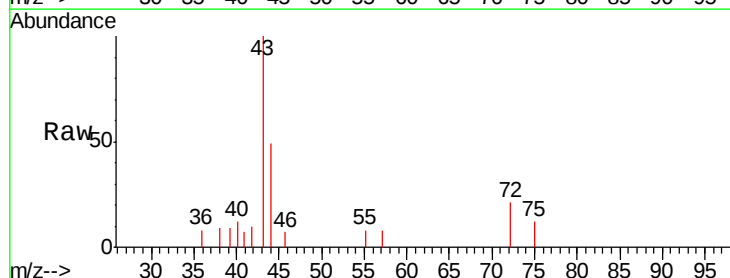


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

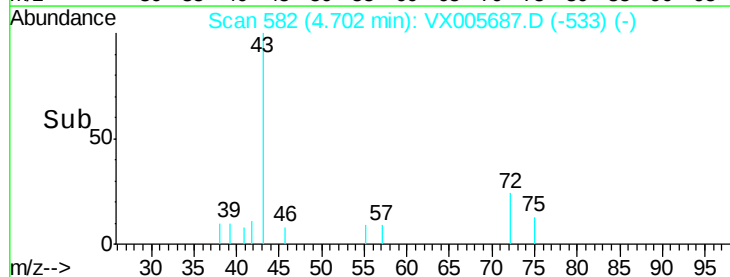
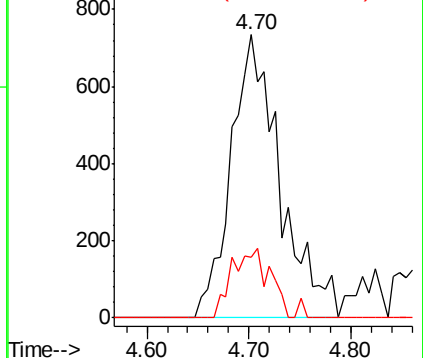


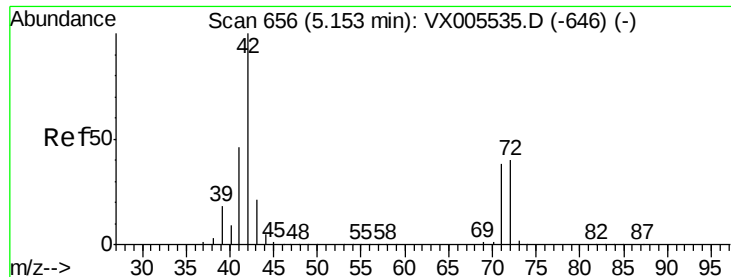
#25
2-Butanone
Concen: 0.92 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX005687.D
Acq: 30 Oct 2018 13:14

Tgt Ion: 43 Resp: 2443
Ion Ratio Lower Upper
43 100
72 21.4 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.72 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005687.D

Acq: 30 Oct 2018 13:14

Instrument :

MSVOA_X

ClientSampleId :

SU-01-102518-B

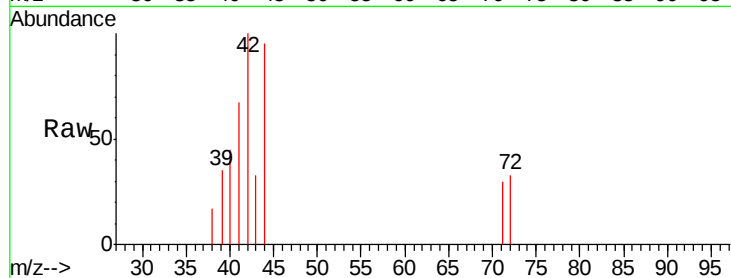
Tgt Ion: 42 Resp: 1246

Ion Ratio Lower Upper

42 100

72 31.9 32.0 48.0#

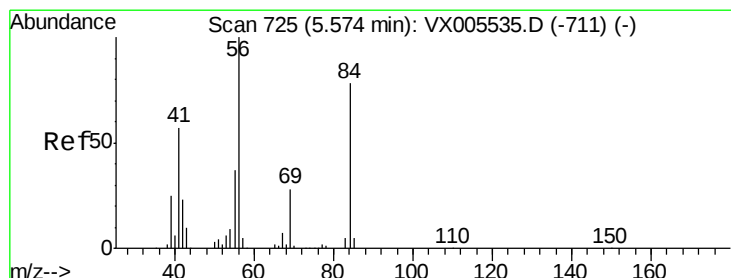
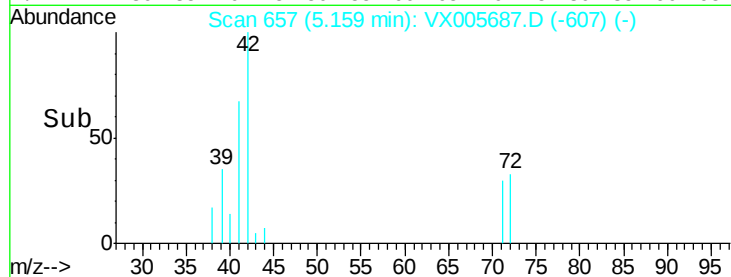
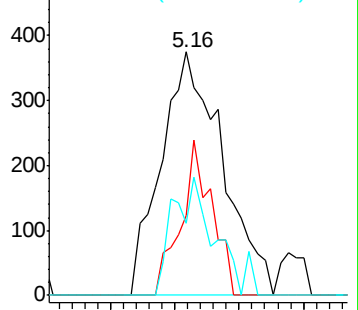
71 13.3 29.8 44.8#



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



#31

Cyclohexane

Concen: 1.08 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005687.D

Acq: 30 Oct 2018 13:14

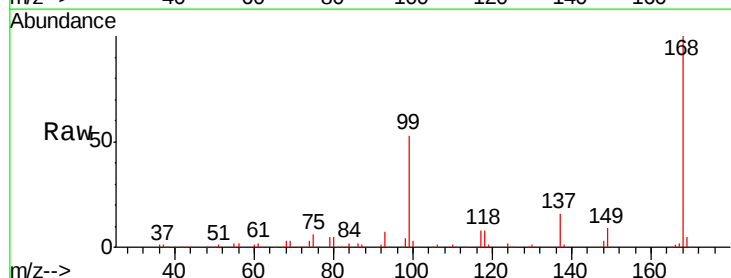
Tgt Ion: 56 Resp: 4823

Ion Ratio Lower Upper

56 100

69 172.6 22.6 34.0#

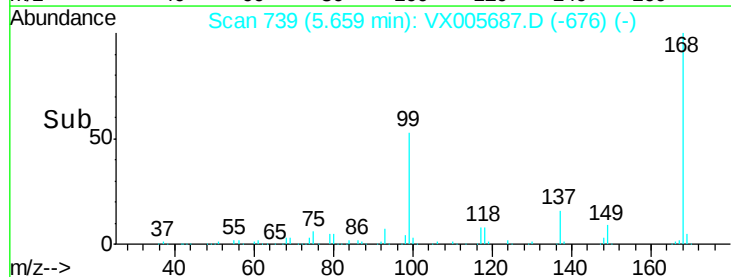
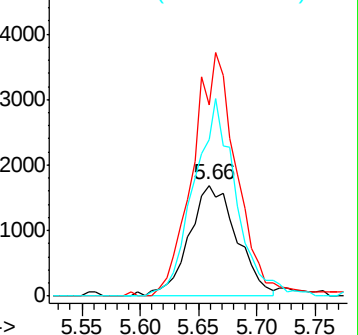
84 140.7 62.7 94.1#

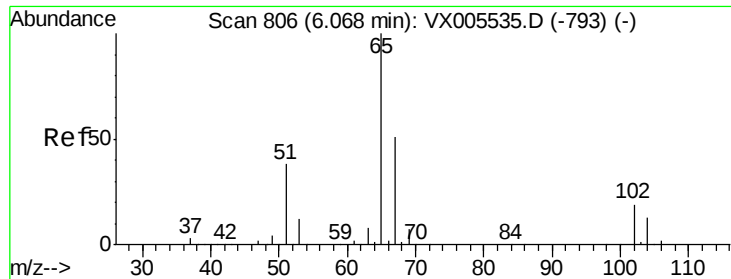


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.83 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005687.D

Acq: 30 Oct 2018 13:14

Instrument :

MSVOA_X

ClientSampleId :

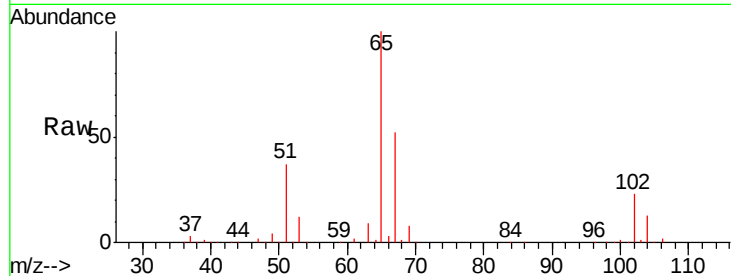
SU-01-102518-B

Tgt Ion: 65 Resp: 161519

Ion Ratio Lower Upper

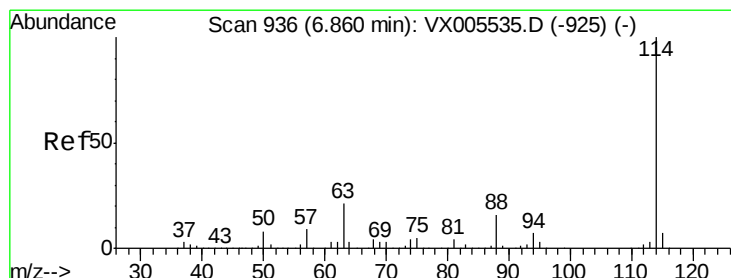
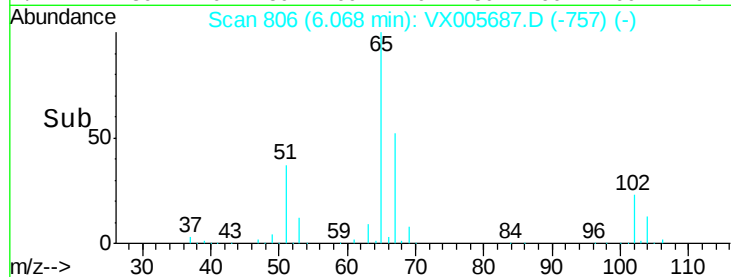
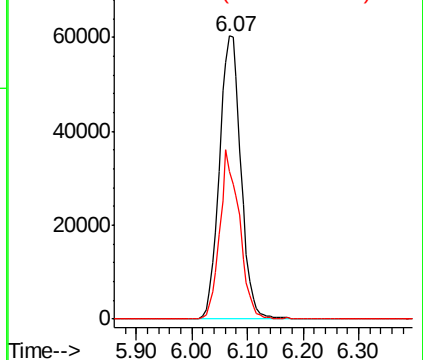
65 100

67 54.4 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.85 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005687.D

Acq: 30 Oct 2018 13:14

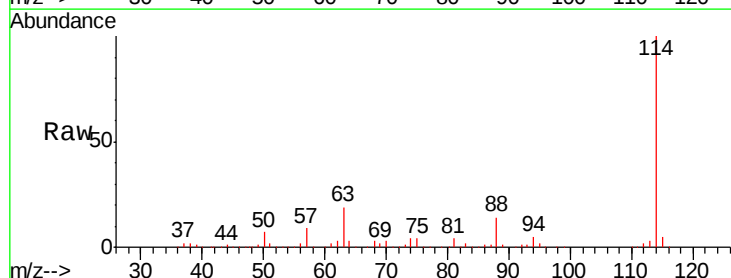
Tgt Ion: 114 Resp: 411177

Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.8

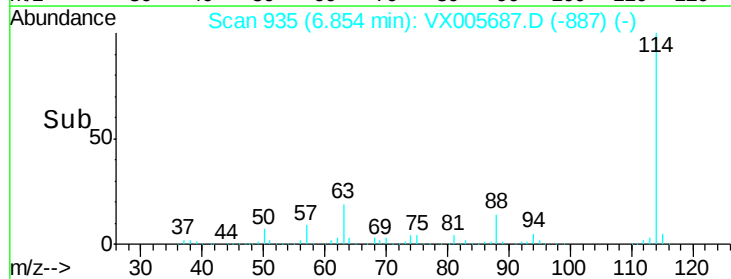
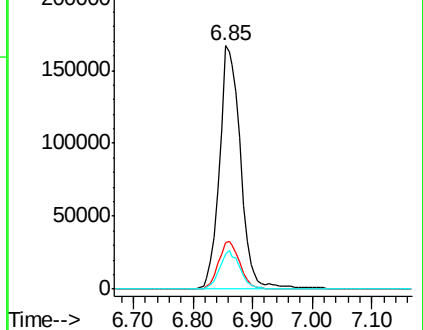
88 14.2 0.0 31.2

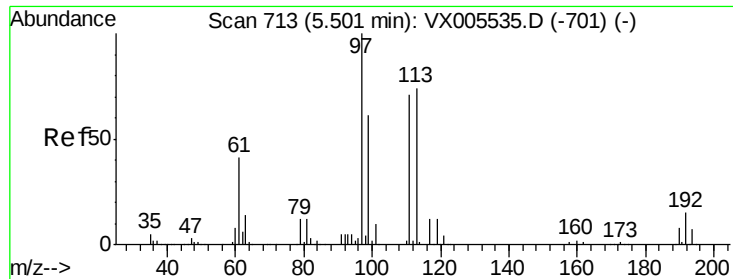


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.27 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005687.D

Acq: 30 Oct 2018 13:14

Instrument :

MSVOA_X

ClientSampled :

SU-01-102518-B

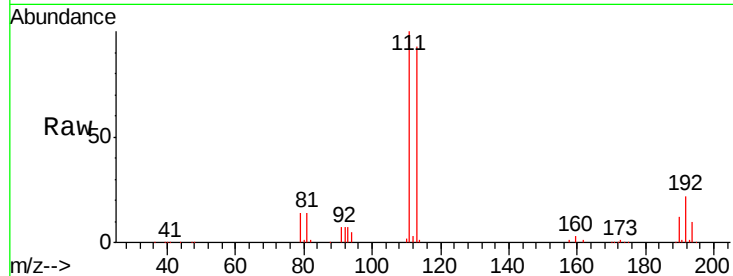
Tgt Ion:113 Resp: 134401

Ion Ratio Lower Upper

113 100

111 102.6 82.3 123.5

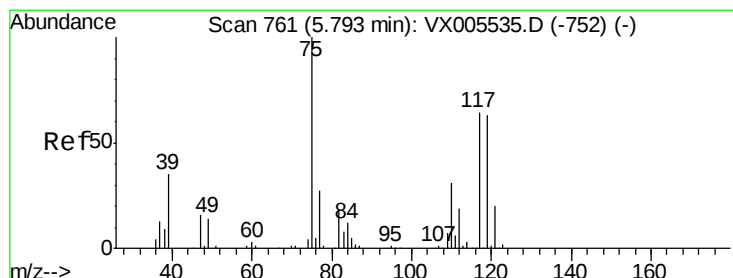
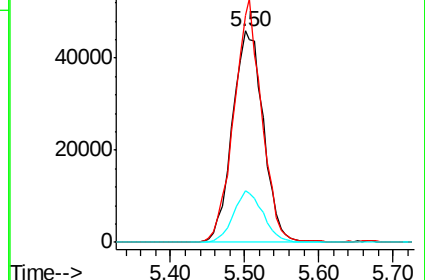
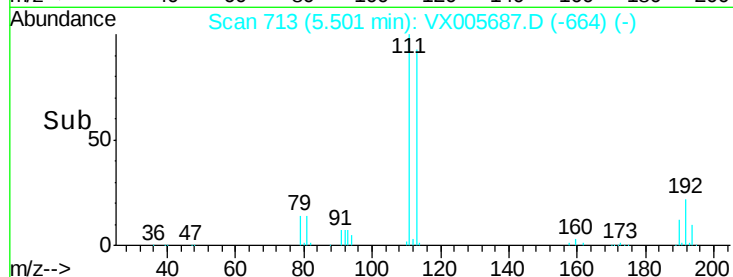
192 23.1 17.9 26.9



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: 4.53 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005687.D

Acq: 30 Oct 2018 13:14

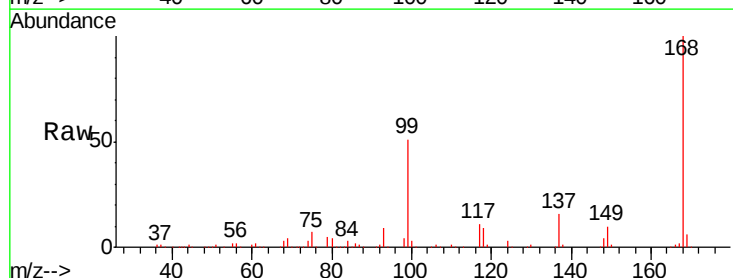
Tgt Ion: 75 Resp: 18071

Ion Ratio Lower Upper

75 100

110 9.5 17.4 52.2#

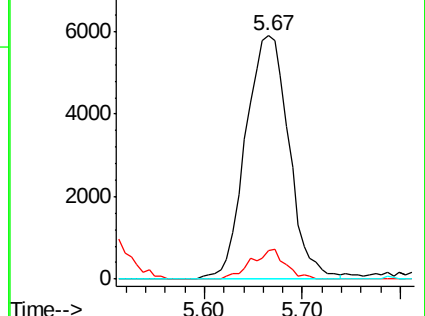
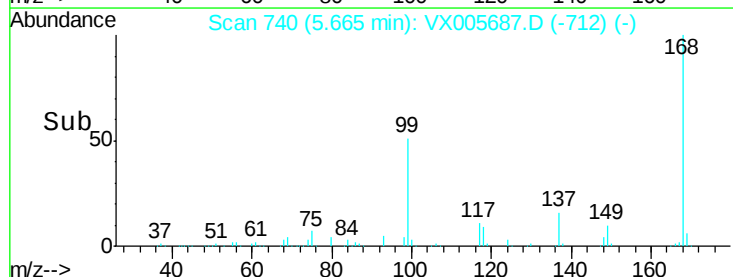
77 0.0 25.8 38.6#

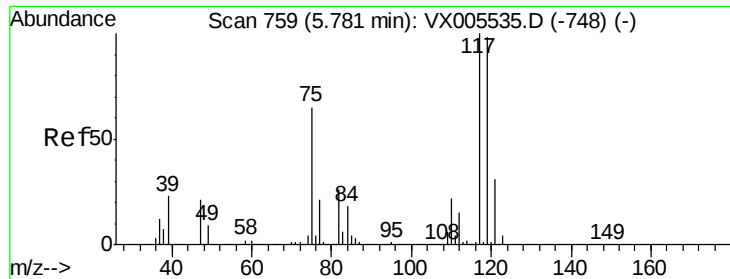


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.03 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005687.D

Acq: 30 Oct 2018 13:14

Instrument :

MSVOA_X

ClientSampleId :

SU-01-102518-B

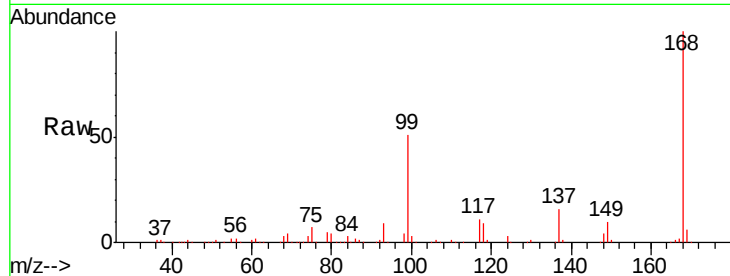
Tgt Ion: 117 Resp: 25362

Ion Ratio Lower Upper

117 100

119 5.6 78.1 117.1#

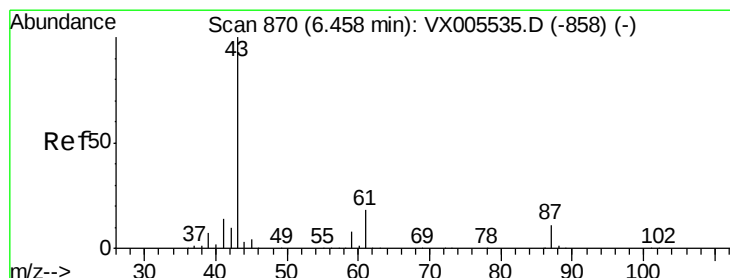
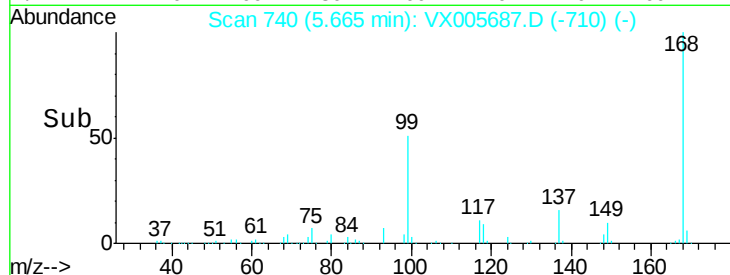
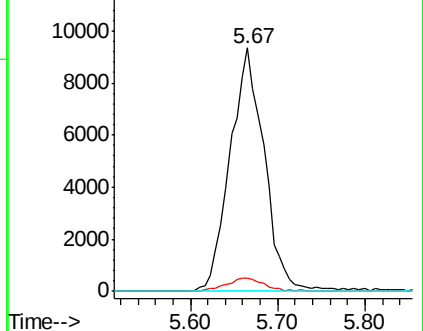
121 0.0 24.6 36.8#



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: 22.21 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX005687.D

Acq: 30 Oct 2018 13:14

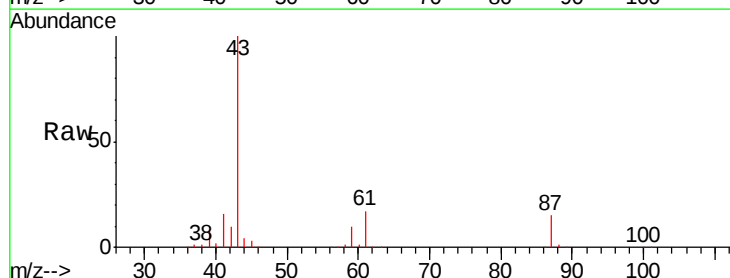
Tgt Ion: 43 Resp: 169503

Ion Ratio Lower Upper

43 100

61 18.7 14.6 22.0

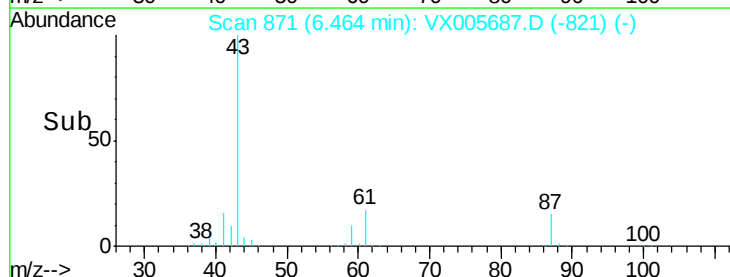
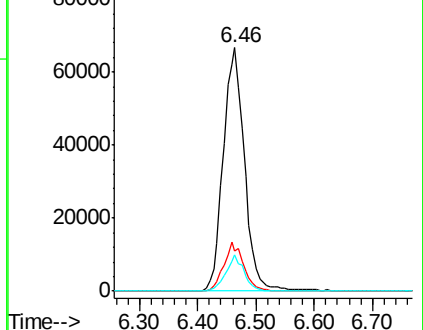
87 12.7 9.6 14.4

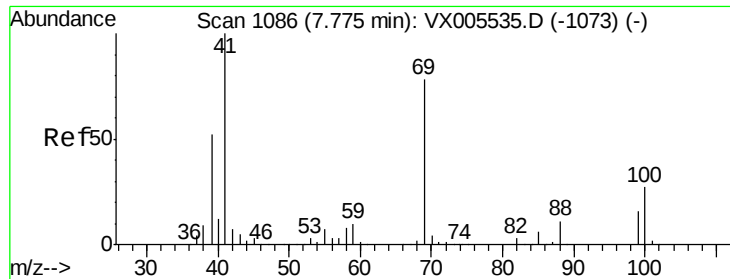


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

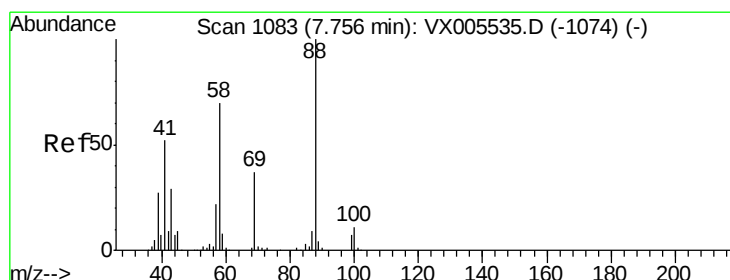
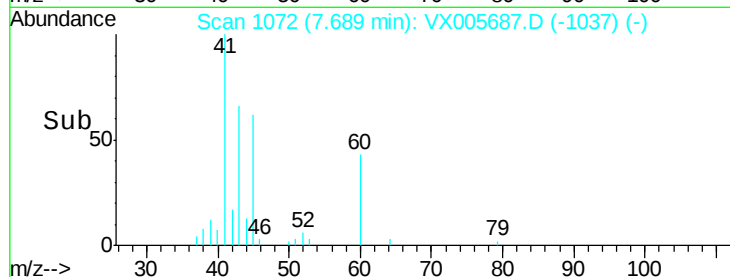
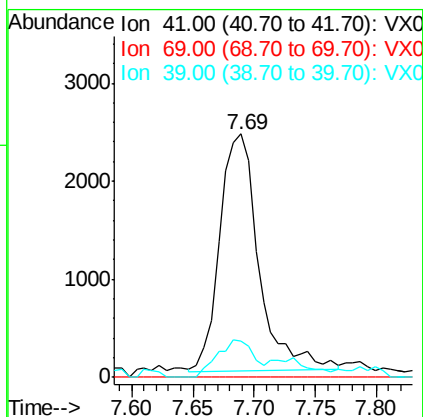
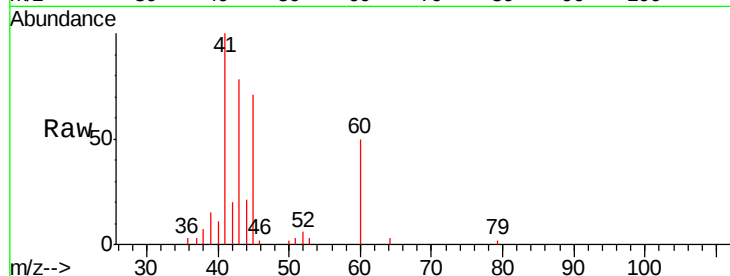




#48
Methyl methacrylate
Concen: 1.45 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX005687.D
Acq: 30 Oct 2018 13:14

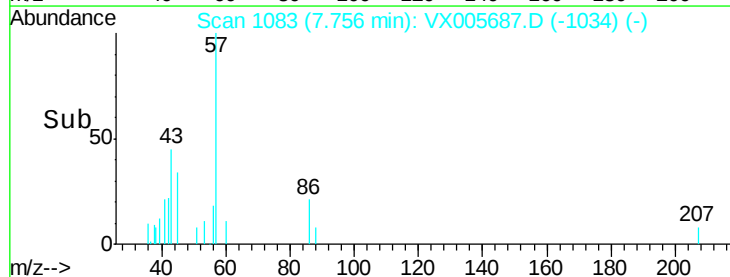
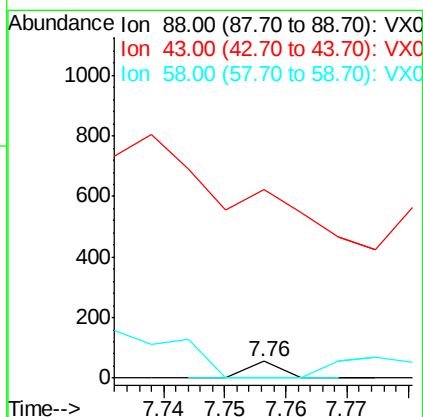
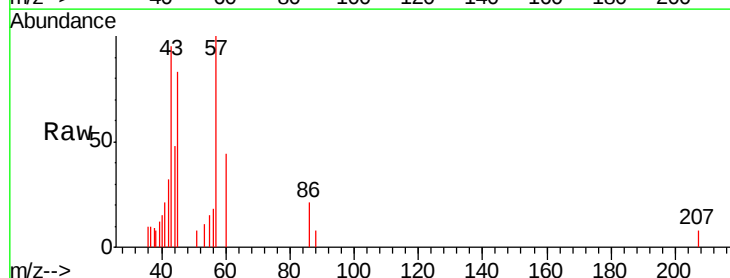
Instrument :
MSVOA_X
ClientSampleId :
SU-01-102518-B

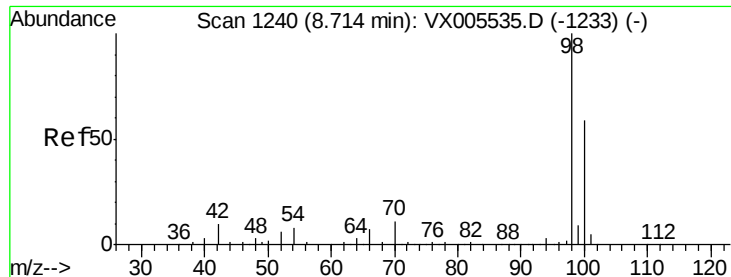
Tgt Ion: 41 Resp: 5372
Ion Ratio Lower Upper
41 100
69 0.0 63.2 94.8#
39 14.6 42.2 63.2#



#49
1,4-Dioxane
Concen: 0.25 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. -0.00 min
Lab File: VX005687.D
Acq: 30 Oct 2018 13:14

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 425.0 59.4 89.2#





#50

Toluene-d8

Concen: 43.36 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005687.D

Acq: 30 Oct 2018 13:14

Instrument :

MSVOA_X

ClientSampleId :

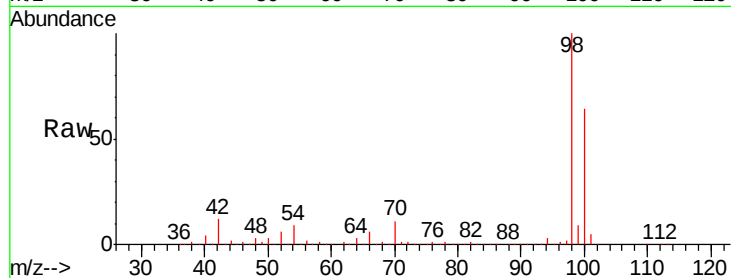
SU-01-102518-B

Tgt Ion: 98 Resp: 433736

Ion Ratio Lower Upper

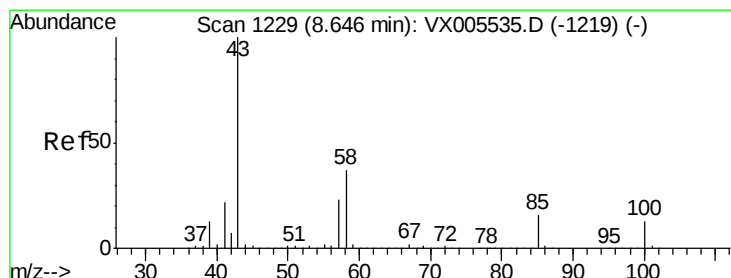
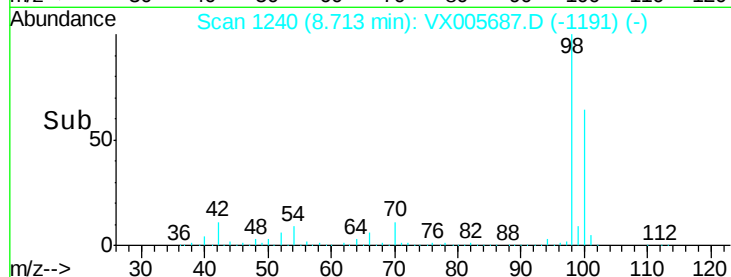
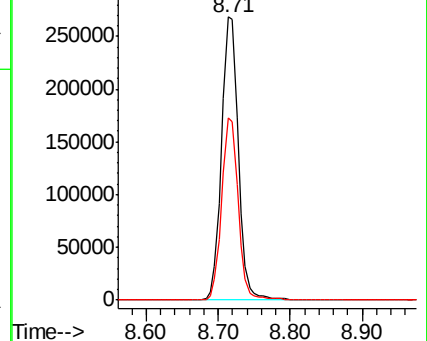
98 100

100 63.6 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.59 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX005687.D

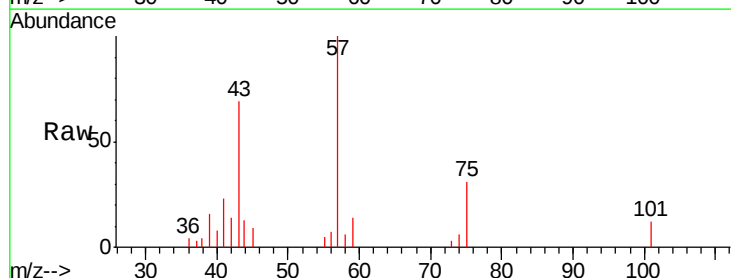
Acq: 30 Oct 2018 13:14

Tgt Ion: 43 Resp: 3023

Ion Ratio Lower Upper

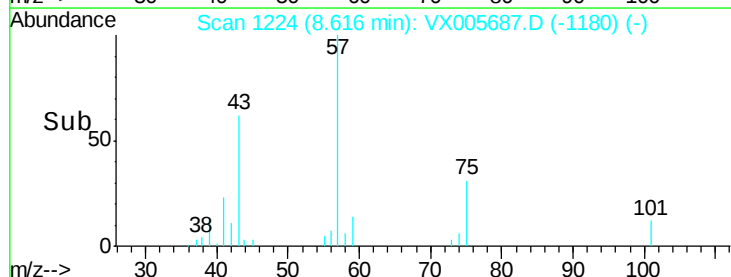
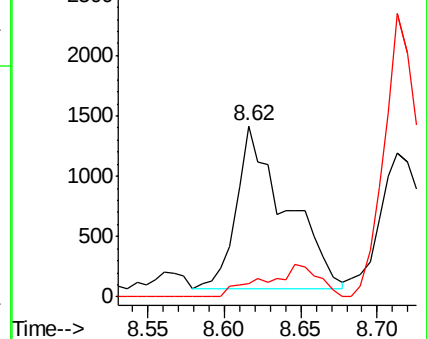
43 100

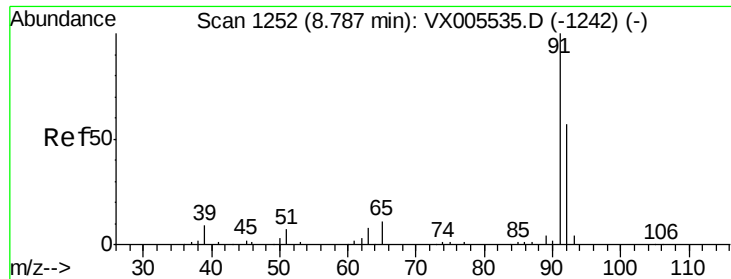
58 6.9 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#52

Toluene

Concen: 0.45 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX005687.D

Acq: 30 Oct 2018 13:14

Instrument :

MSVOA_X

ClientSampleId :

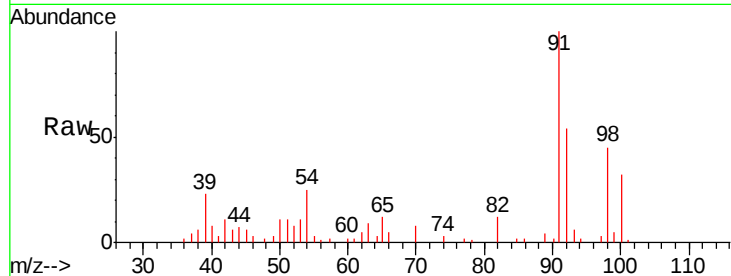
SU-01-102518-B

Tgt Ion: 92 Resp: 3118

Ion Ratio Lower Upper

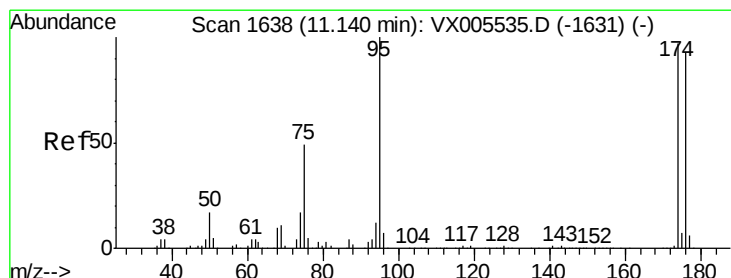
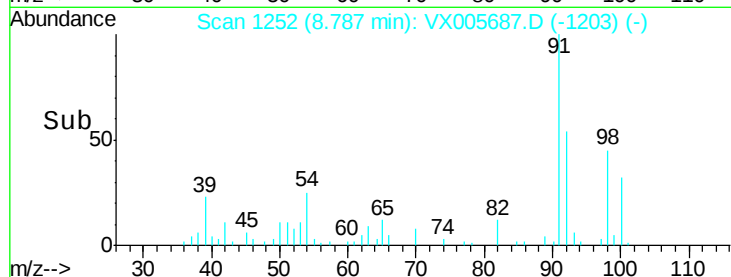
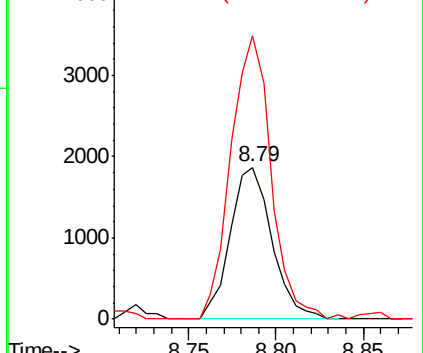
92 100

91 179.3 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 38.16 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005687.D

Acq: 30 Oct 2018 13:14

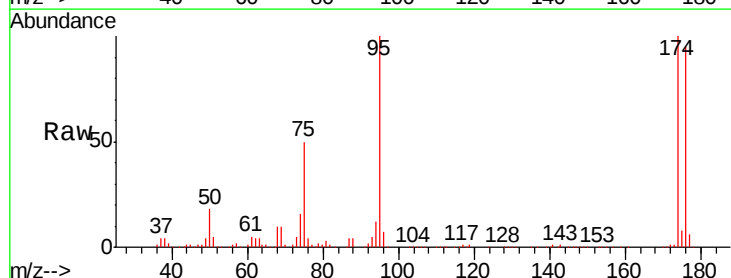
Tgt Ion: 95 Resp: 144179

Ion Ratio Lower Upper

95 100

174 94.1 0.0 184.4

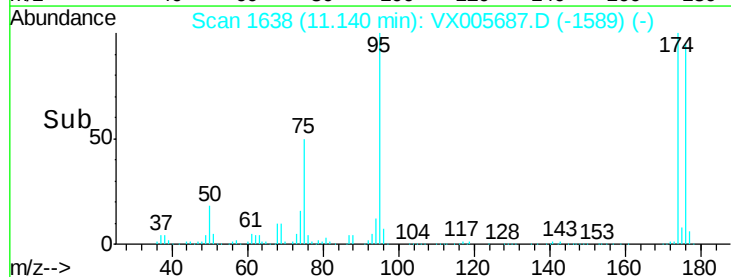
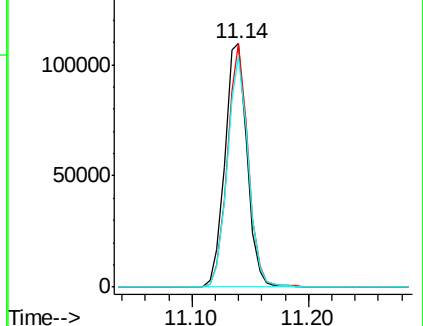
176 90.1 0.0 177.4

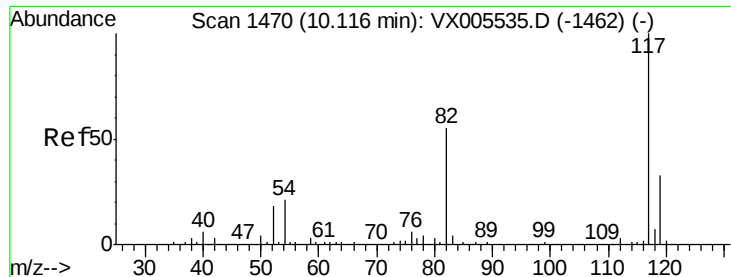


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

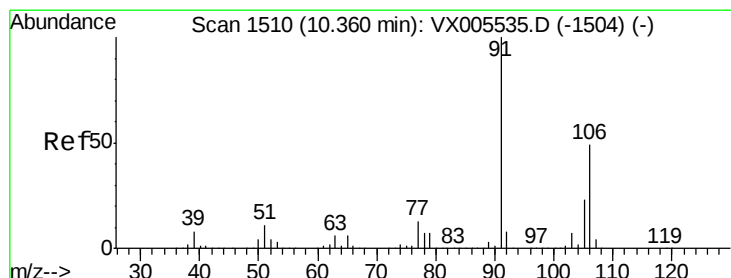
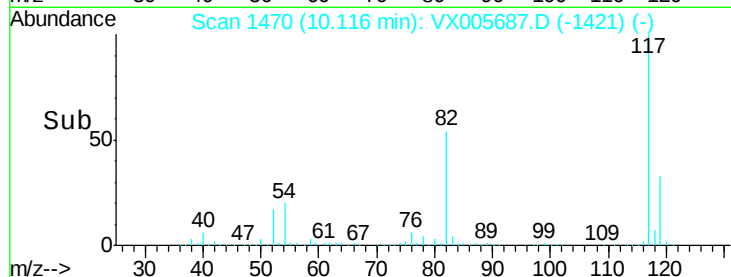
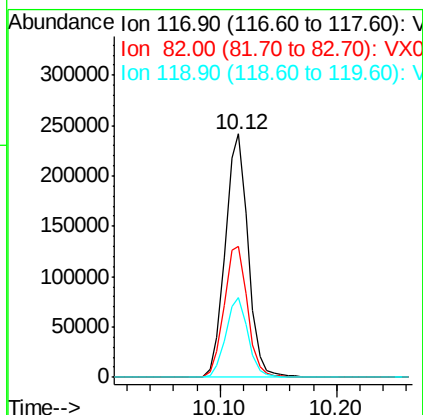
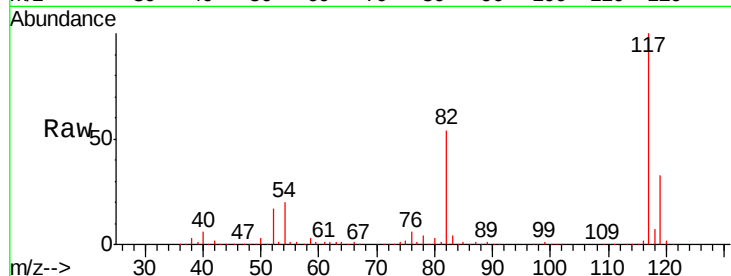




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005687.D
Acq: 30 Oct 2018 13:14

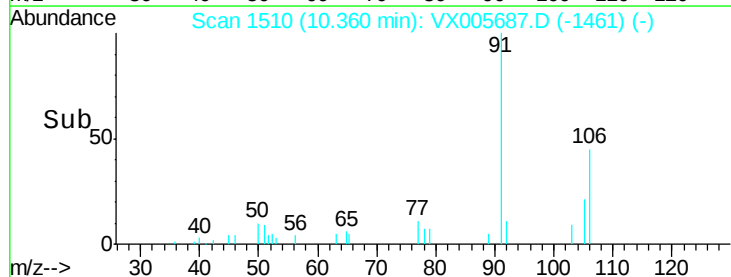
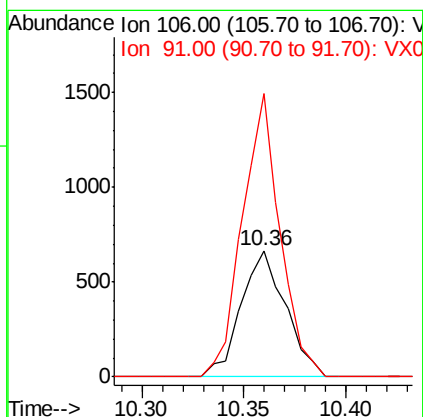
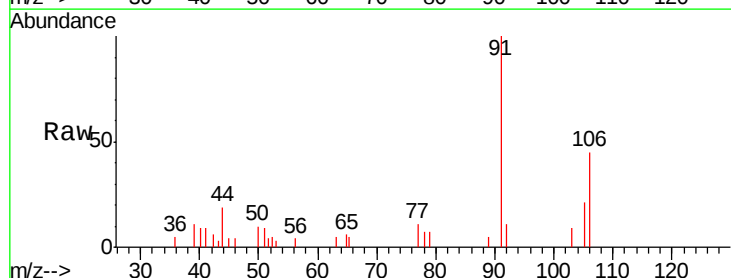
Instrument :
MSVOA_X
ClientSampleId :
SU-01-102518-B

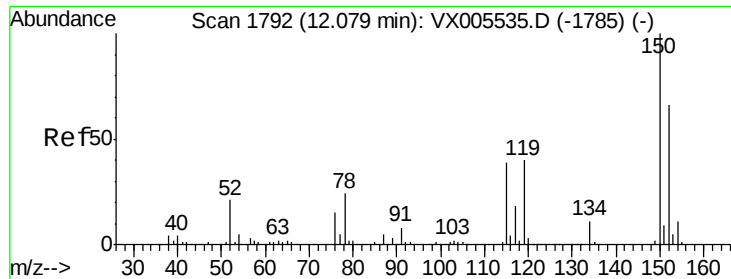
Tgt Ion:117 Resp: 329223
Ion Ratio Lower Upper
117 100
82 53.6 44.1 66.1
119 32.6 26.2 39.2



#68
m/p-Xylenes
Concen: 0.23 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX005687.D
Acq: 30 Oct 2018 13:14

Tgt Ion:106 Resp: 1010
Ion Ratio Lower Upper
106 100
91 190.1 164.2 246.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005687.D

Acq: 30 Oct 2018 13:14

Instrument :

MSVOA_X

ClientSampleId :

SU-01-102518-B

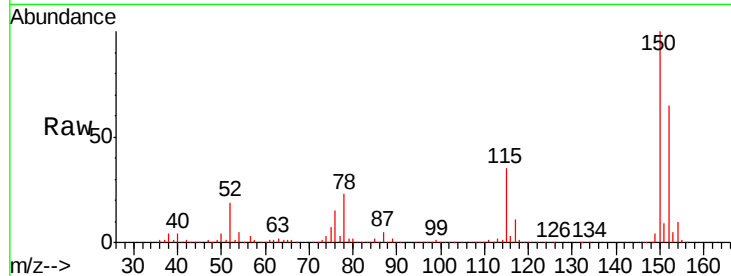
Tgt Ion:152 Resp: 157176

Ion Ratio Lower Upper

152 100

115 55.1 39.4 118.1

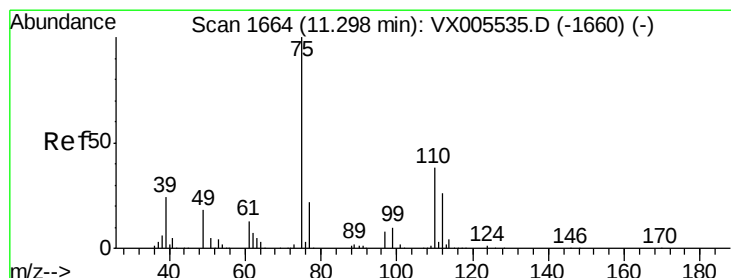
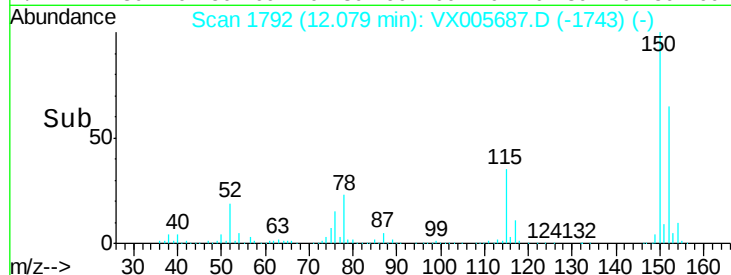
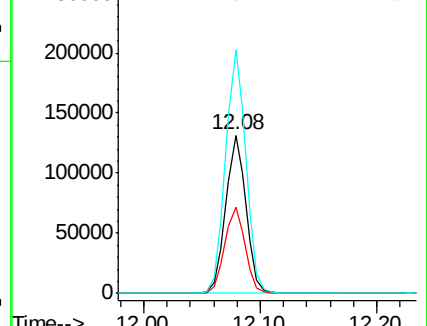
150 155.3 0.0 346.4



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



#76

1,2,3-Trichloropropane

Concen: 21.78 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX005687.D

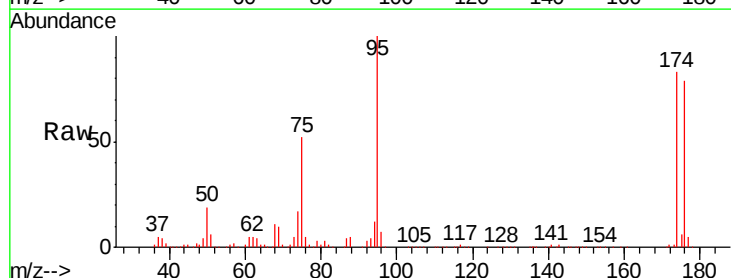
Acq: 30 Oct 2018 13:14

Tgt Ion: 75 Resp: 72530

Ion Ratio Lower Upper

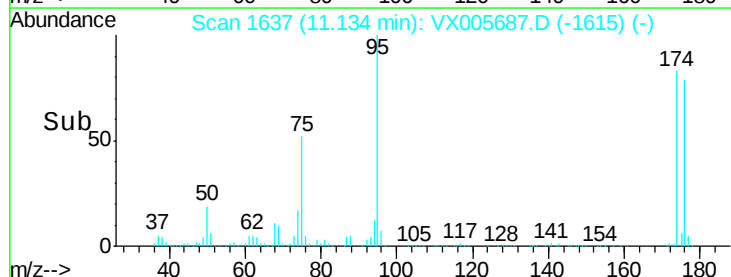
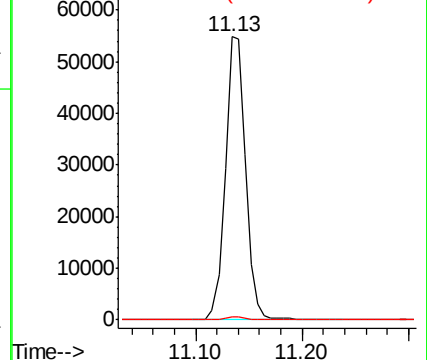
75 100

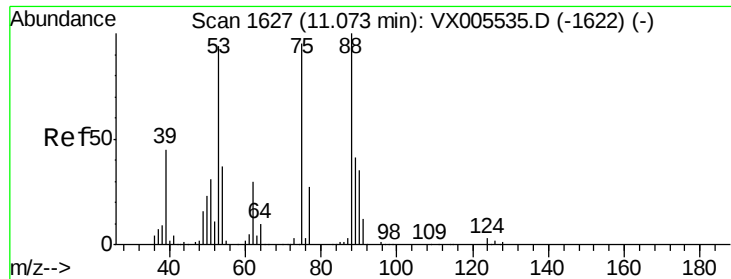
77 1.3 20.5 61.6#



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: 71.17 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX005687.D

Acq: 30 Oct 2018 13:14

Instrument :

MSVOA_X

ClientSampleId :

SU-01-102518-B

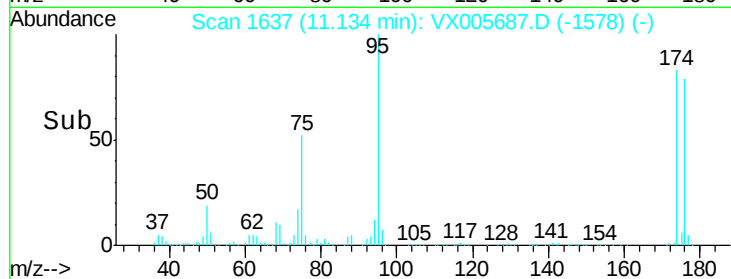
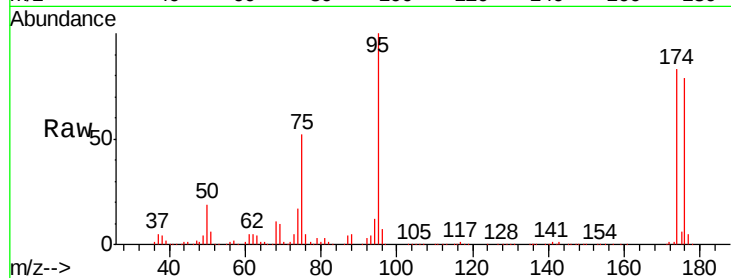
Tgt Ion: 75 Resp: 72530

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.2#

89 0.0 39.8 59.8#



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

