

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101918\
 Data File : VX005461.D
 Acq On : 19 Oct 2018 16:33
 Operator : JC/MD
 Sample : J5602-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RAV-SP9

Quant Time: Oct 20 04:21:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	256180	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	375203	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	337817	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	167164	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	155022	54.52	ug/l	-0.01
Spiked Amount			Recovery	=	109.04%	
35) Dibromofluoromethane	5.50	113	119609	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	
50) Toluene-d8	8.72	98	462217	54.18	ug/l	0.00
Spiked Amount			Recovery	=	108.36%	
62) 4-Bromofluorobenzene	11.14	95	147432	46.00	ug/l	0.00
Spiked Amount			Recovery	=	92.00%	

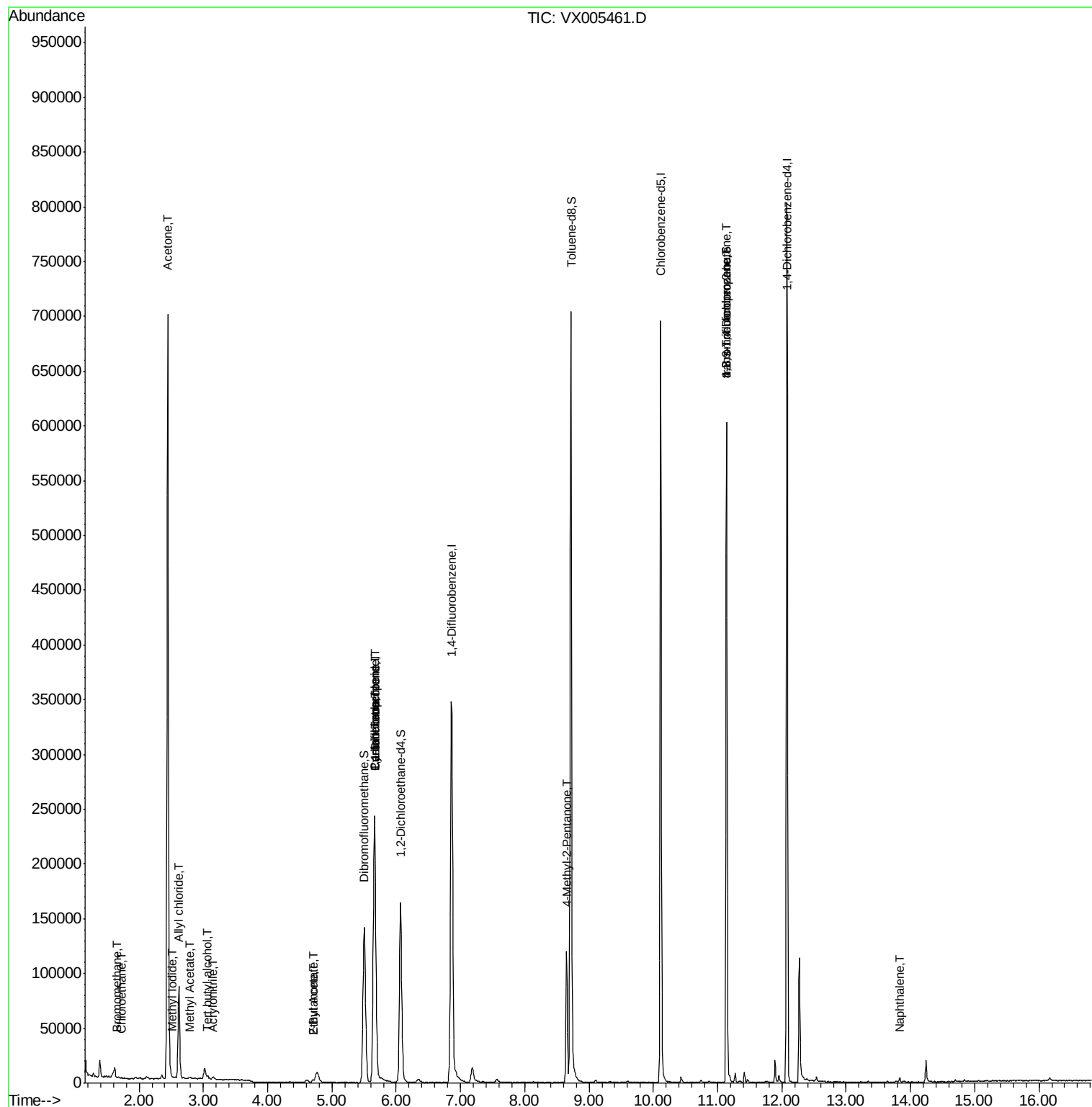
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	244	0.729	ug/l #	51
6) Chloroethane	1.72	64	55	0.363	ug/l #	44
10) Methyl Iodide	2.52	142	142	2.543	ug/l #	57
11) Tert butyl alcohol	3.06	59	3070	3.828	ug/l #	89
13) Acrolein	2.29	56	105	Below Cal	#	16
14) Allyl chloride	2.62	41	8039	1.632	ug/l #	59
15) Acrylonitrile	3.15	53	1784	0.982	ug/l #	95
16) Acetone	2.45	43	659226	401.012	ug/l #	87
18) Methyl Acetate	2.78	43	1826	0.390	ug/l	99
20) Methylene Chloride	2.86	84	268	Below Cal	#	82
25) 2-Butanone	4.71	43	5128	2.132	ug/l	99
31) Cyclohexane	5.66	56	4441	1.136	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16827	4.631	ug/l #	50
37) Ethyl Acetate	4.71	43	5128	1.097	ug/l #	67
38) Carbon Tetrachloride	5.67	117	22644	6.202	ug/l #	16
51) 4-Methyl-2-Pentanone	8.65	43	71576	16.606	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	71949	22.189	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	71949	67.422	ug/l #	10
95) Naphthalene	13.83	128	2661	0.231	ug/l	97

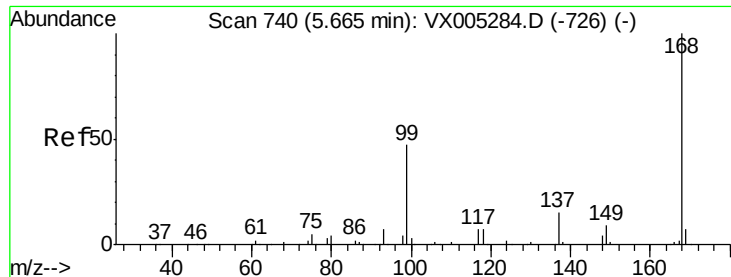
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005461.D

Acq: 19 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampled :

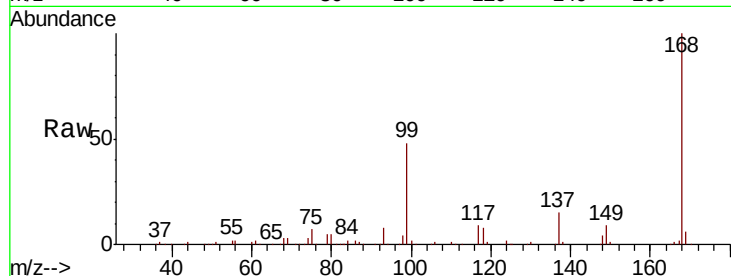
RAV-SP9

Tot Ion:168 Resp: 256180

Ion Ratio Lower Upper

168 100

99 48.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

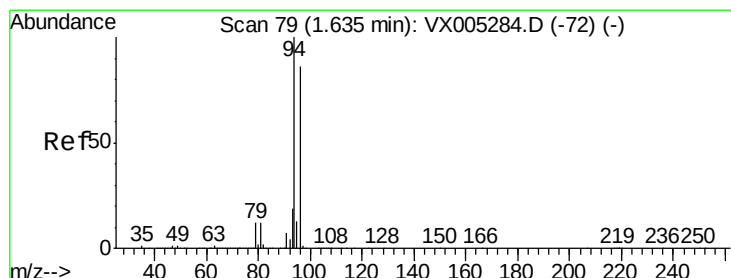
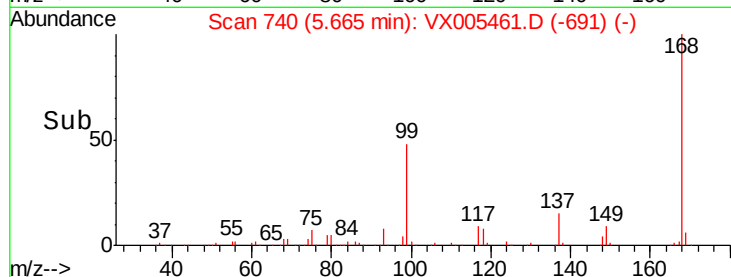
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.729 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX005461.D

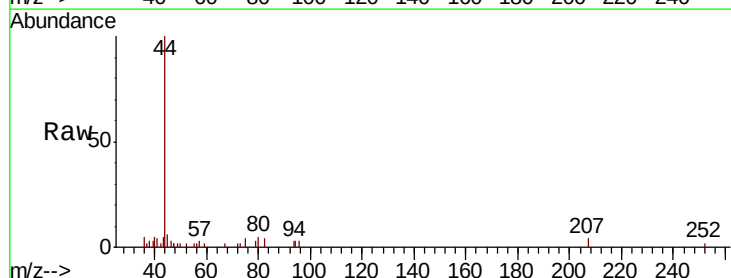
Acq: 19 Oct 2018 16:33

Tgt Ion: 94 Resp: 244

Ion Ratio Lower Upper

94 100

96 46.3 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

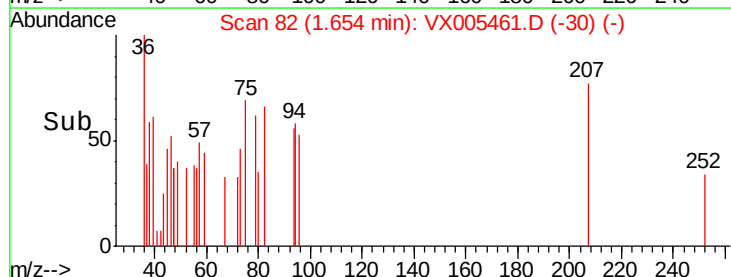
150

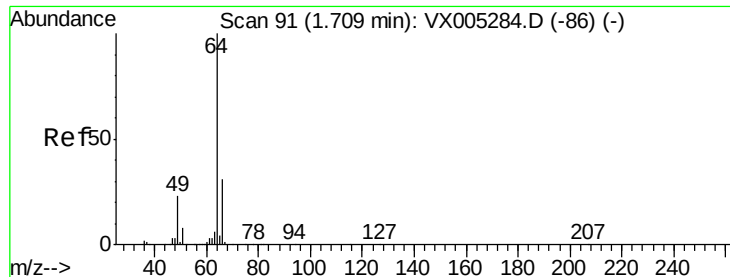
100

50

0

Time--> 1.62 1.64 1.66 1.68 1.70





#6

Chloroethane

Concen: 0.363 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005461.D

Acq: 19 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

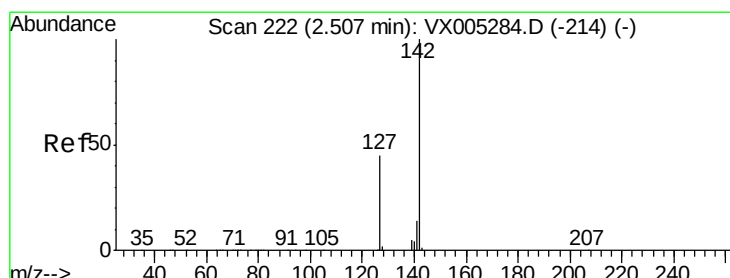
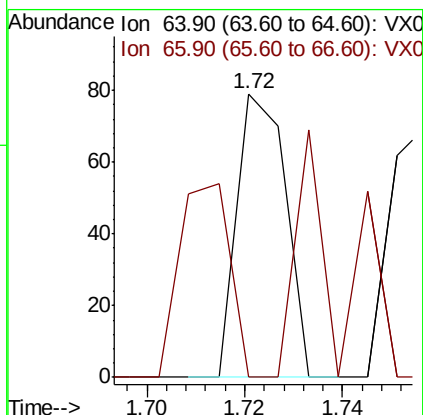
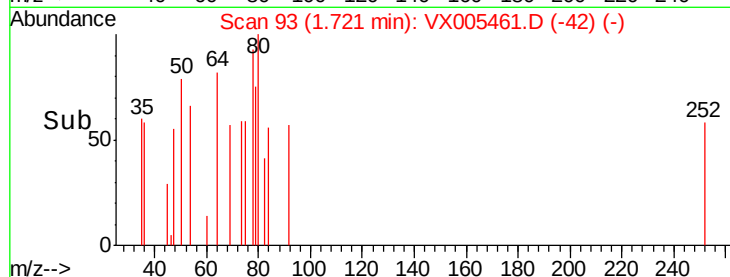
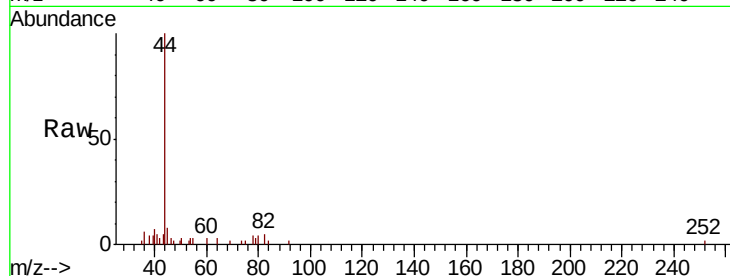
RAV-SP9

Tot Ion: 64 Resp: 55

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



#10

Methyl Iodide

Concen: 2.543 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005461.D

Acq: 19 Oct 2018 16:33

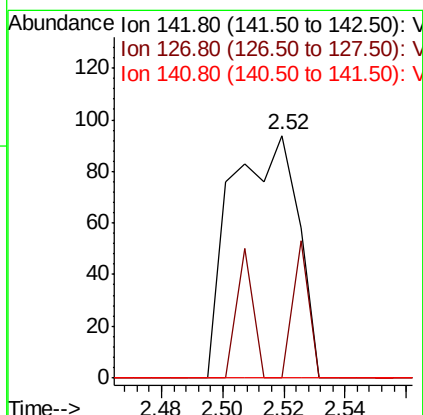
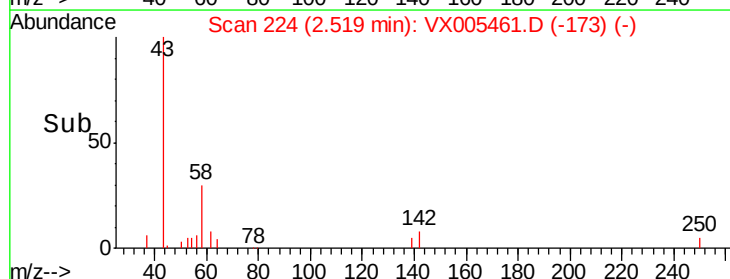
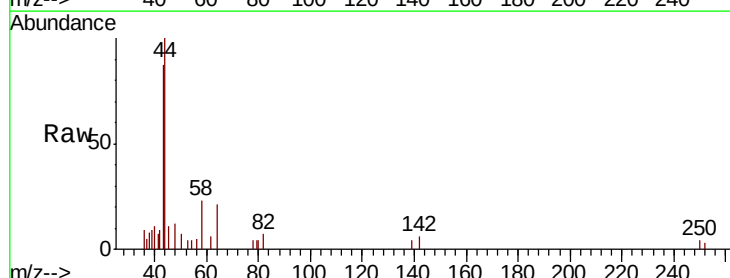
Tgt Ion: 142 Resp: 142

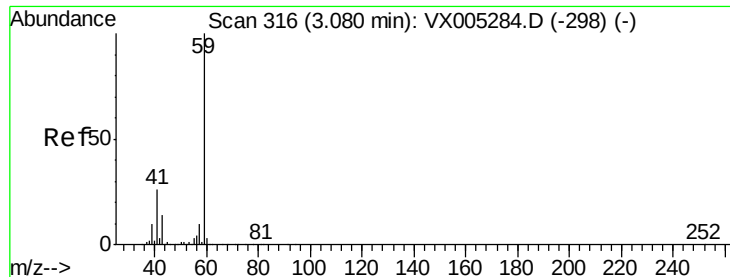
Ion Ratio Lower Upper

142 100

127 13.4 33.8 50.6#

141 0.0 11.4 17.0#

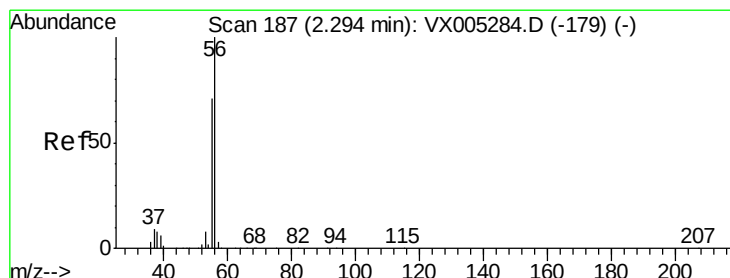
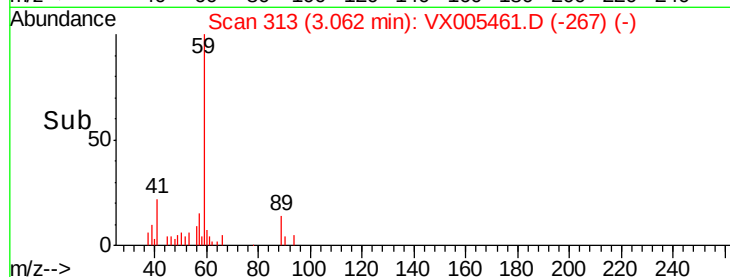
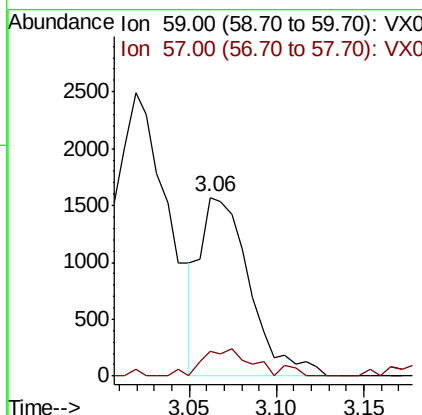
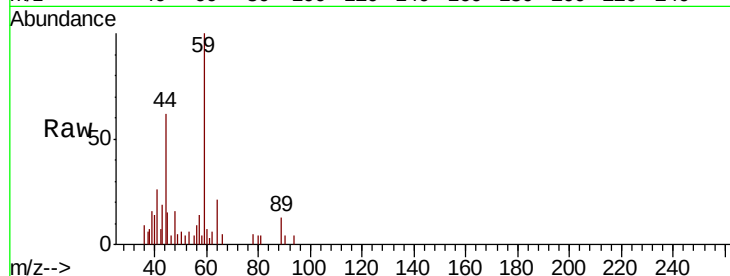




#11
Tert butyl alcohol
Concen: 3.828 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX005461.D
Acq: 19 Oct 2018 16:33

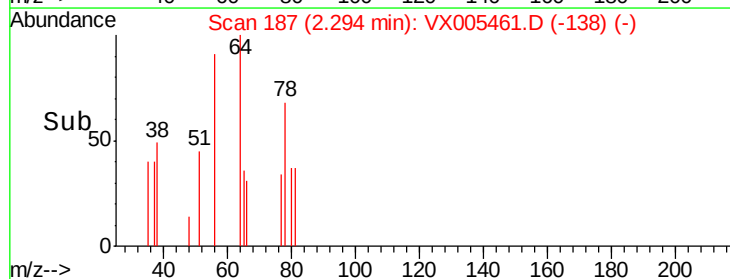
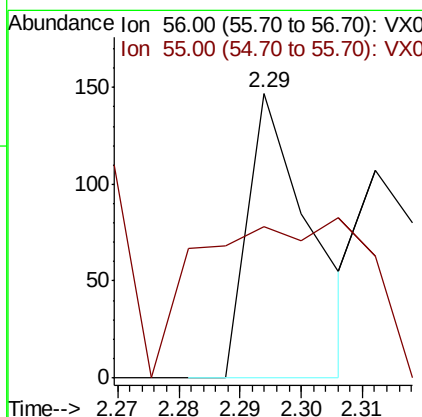
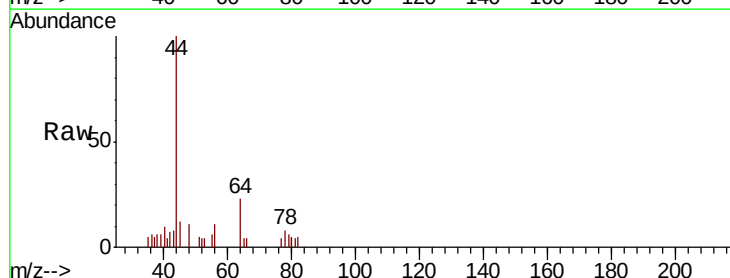
Instrument :
MSVOA_X
ClientSampled :
RAV-SP9

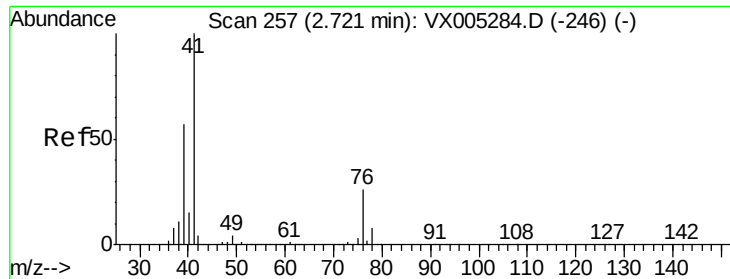
Tot Ion: 59 Resp: 3070
Ion Ratio Lower Upper
59 100
57 14.4 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX005461.D
Acq: 19 Oct 2018 16:33

Tgt Ion: 56 Resp: 105
Ion Ratio Lower Upper
56 100
55 0.0 54.7 82.1#





#14

Allvl chloride

Concen: 1.632 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.10 min

Lab File: VX005461.D

Acq: 19 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampled :

RAV-SP9

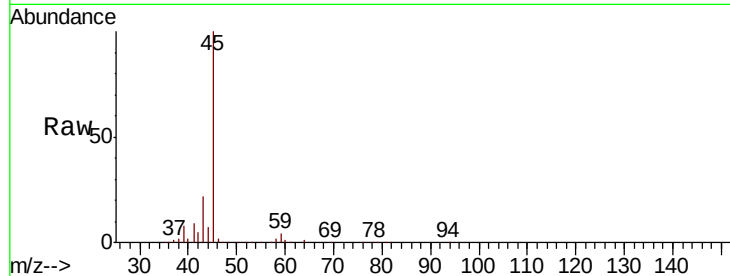
Tot Ion: 41 Resp: 8039

Ion Ratio Lower Upper

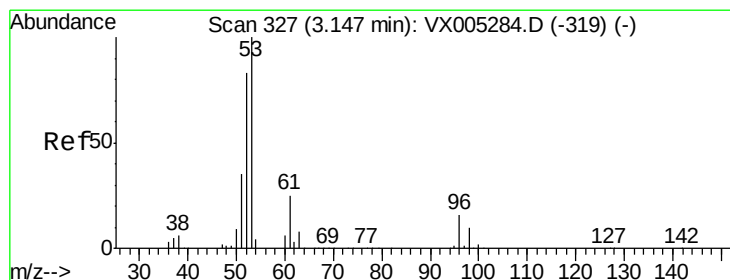
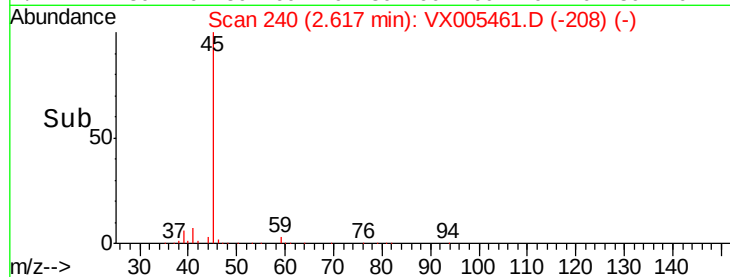
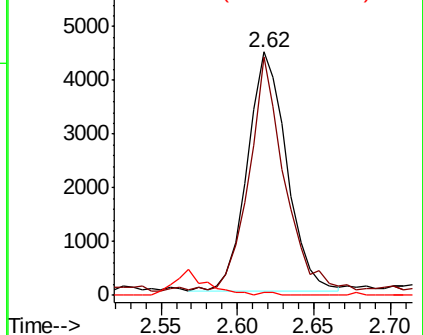
41 100

39 85.7 48.9 73.3#

76 0.5 26.7 40.1#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 75.90 (75.60 to 76.60): VX0



#15

Acrylonitrile

Concen: 0.982 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.00 min

Lab File: VX005461.D

Acq: 19 Oct 2018 16:33

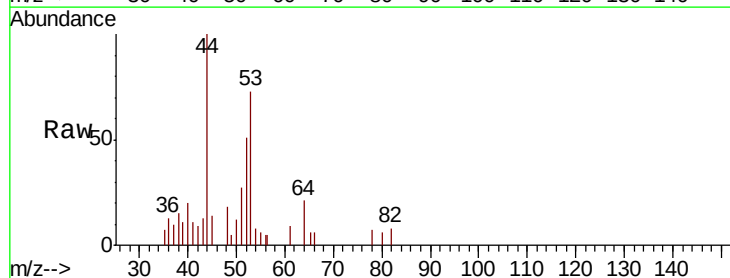
Tgt Ion: 53 Resp: 1784

Ion Ratio Lower Upper

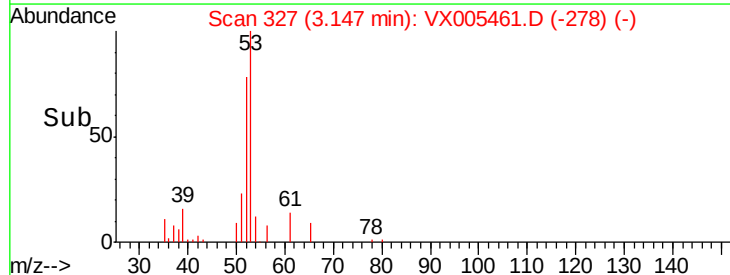
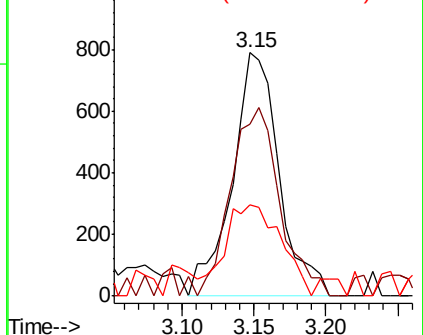
53 100

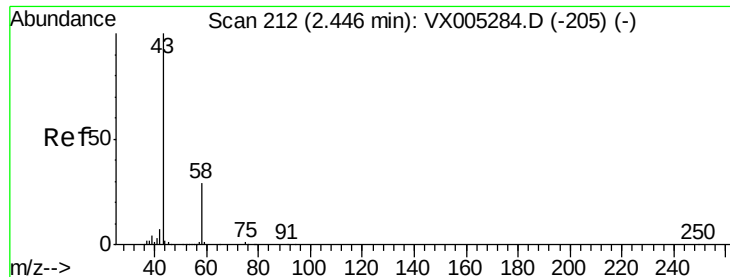
52 81.4 65.2 97.8

51 45.3 28.2 42.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0

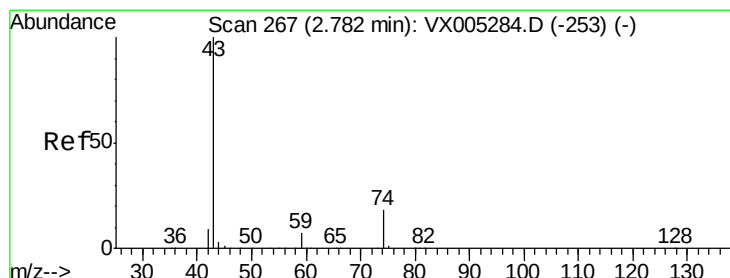
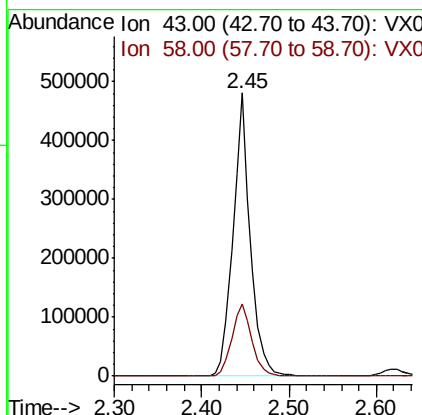
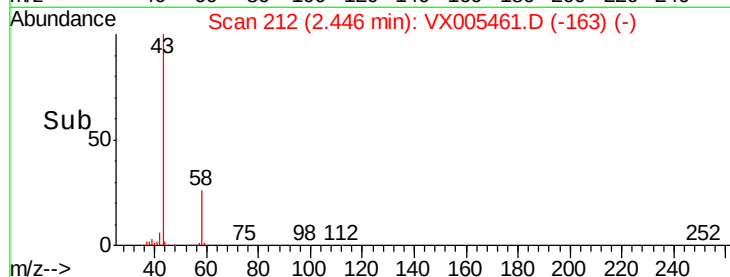
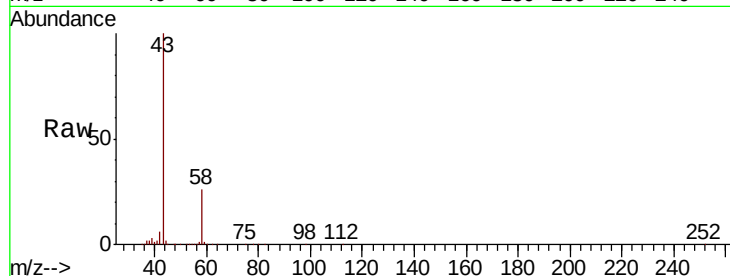




#16
Acetone
Concen: 401.012 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX005461.D
Acq: 19 Oct 2018 16:33

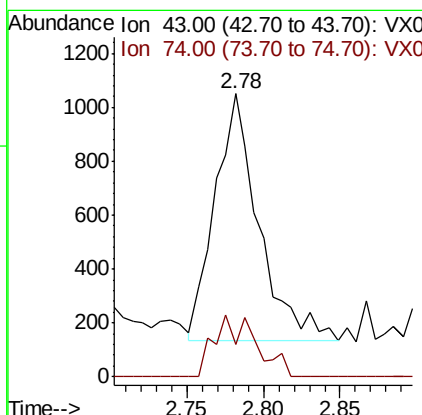
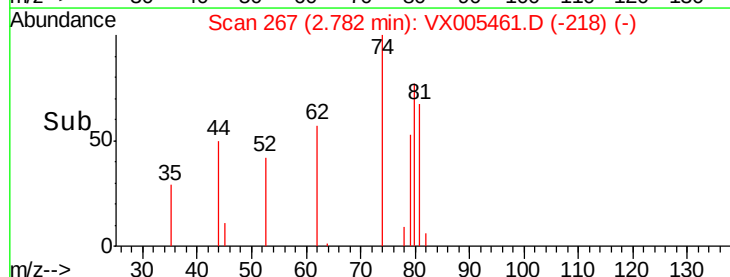
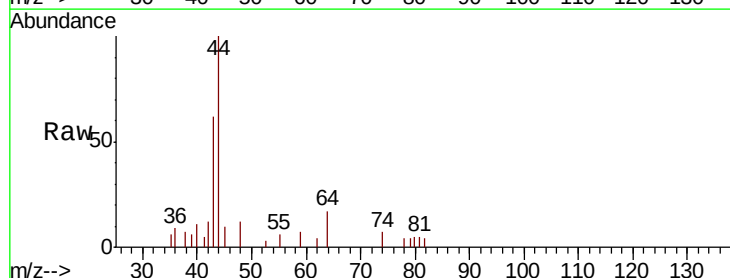
Instrument :
MSVOA_X
ClientSampleId :
RAV-SP9

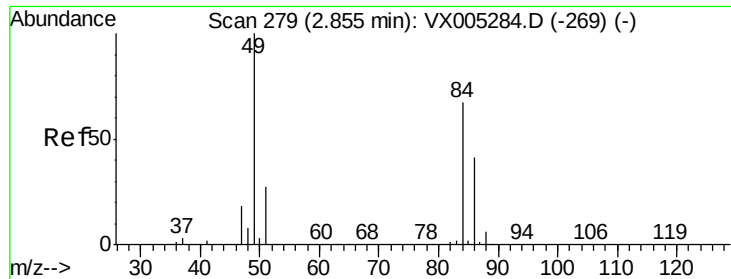
Tot Ion: 43 Resp: 659226
Ion Ratio Lower Upper
43 100
58 25.5 26.2 39.4#



#18
Methyl Acetate
Concen: 0.390 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX005461.D
Acq: 19 Oct 2018 16:33

Tgt Ion: 43 Resp: 1826
Ion Ratio Lower Upper
43 100
74 23.8 19.4 29.2

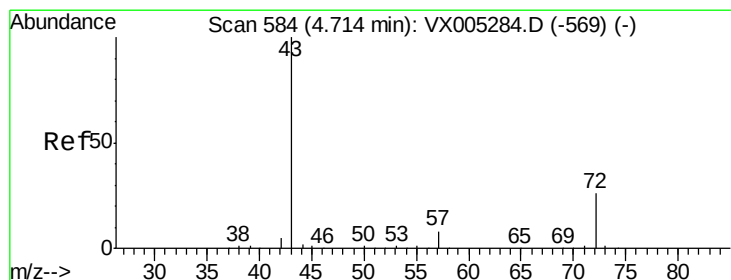
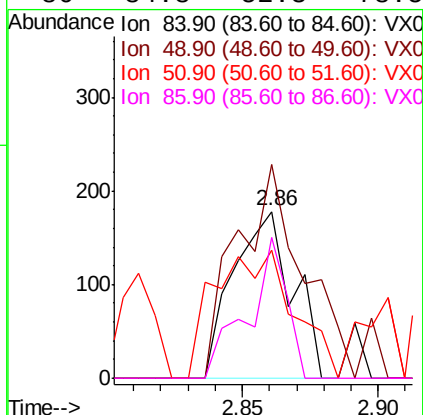
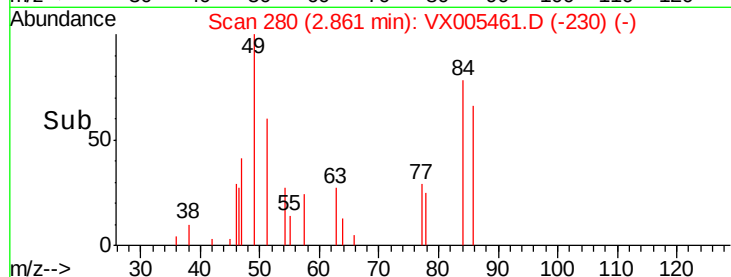
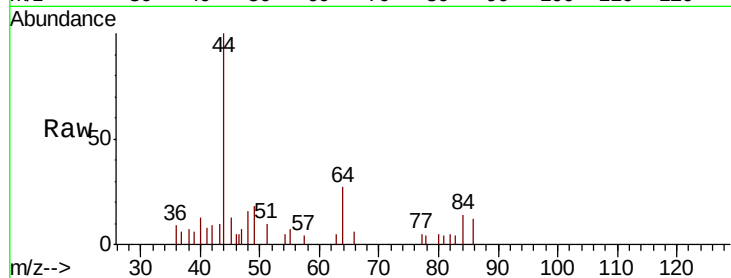




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005461.D
Acq: 19 Oct 2018 16:33

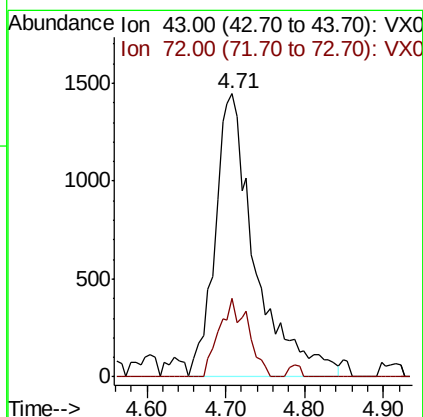
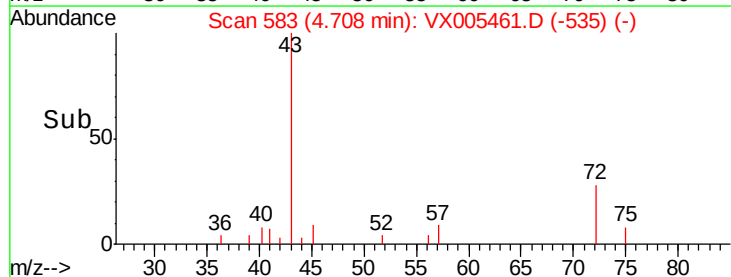
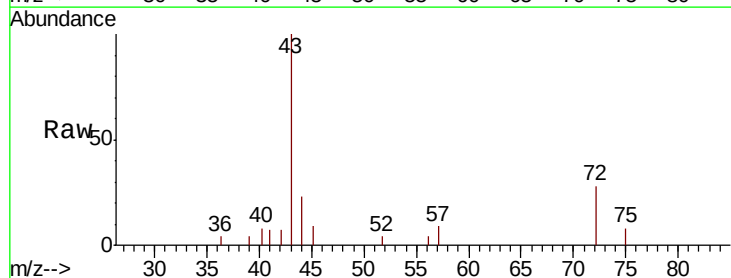
Instrument :
MSVOA_X
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RAV-SP9

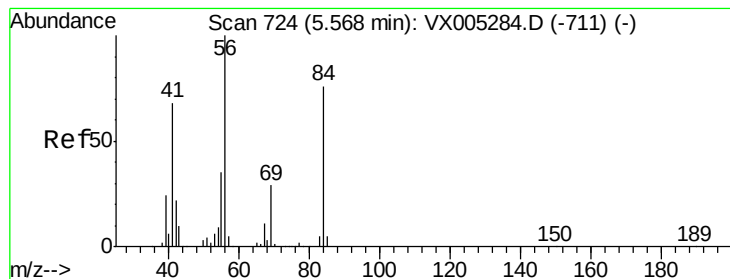
Tot Ion: 84 Resp: 268
Ion Ratio Lower Upper
84 100
49 128.1 101.2 151.8
51 76.4 29.5 44.3#
86 84.8 52.3 78.5#



#25
2-Butanone
Concen: 2.132 ug/l
RT: 4.71 min Scan# 583
Delta R.T. -0.01 min
Lab File: VX005461.D
Acq: 19 Oct 2018 16:33

Tgt Ion: 43 Resp: 5128
Ion Ratio Lower Upper
43 100
72 27.9 22.0 33.0





#31

Cyclohexane

Concen: 1.136 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005461.D

Acq: 19 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

RAV-SP9

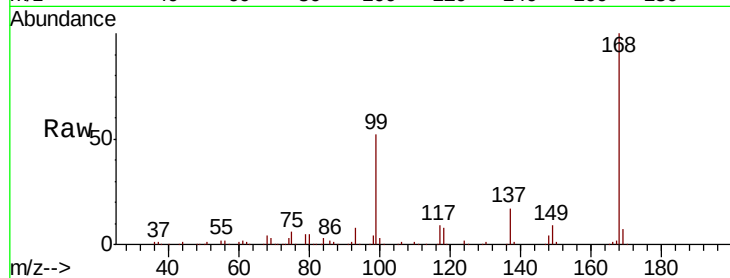
Tot Ion: 56 Resp: 4441

Ion Ratio Lower Upper

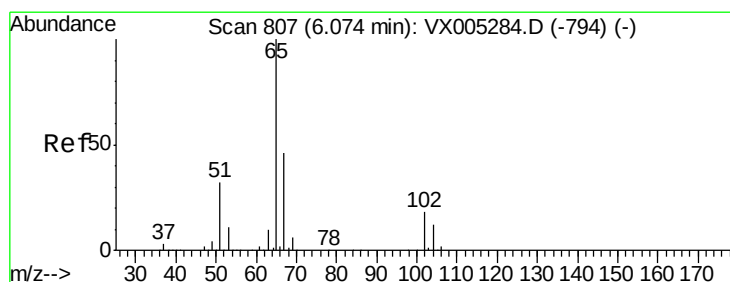
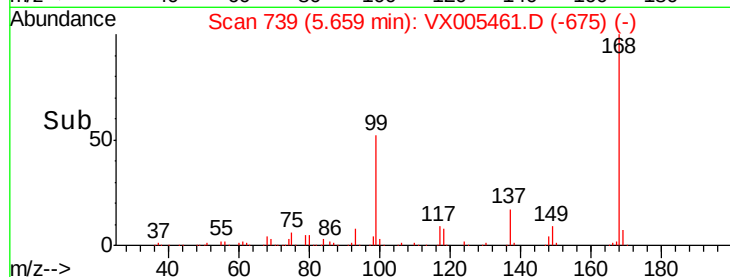
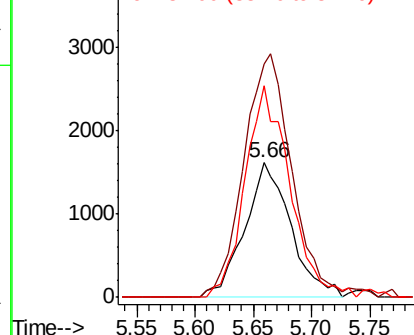
56 100

69 172.9 25.4 38.2#

84 157.0 71.4 107.2#



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: 54.524 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX005461.D

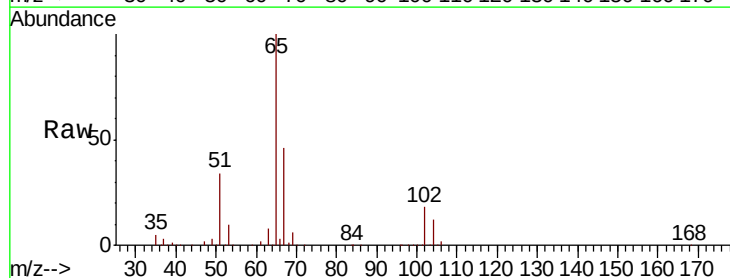
Acq: 19 Oct 2018 16:33

Tgt Ion: 65 Resp: 155022

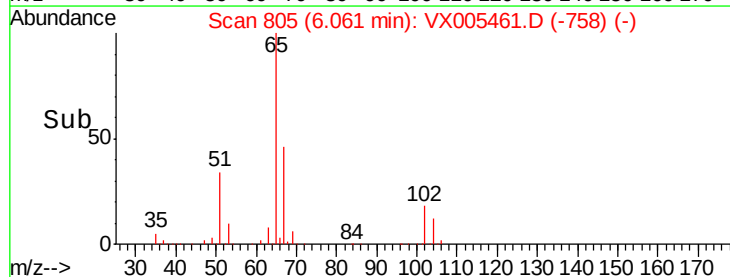
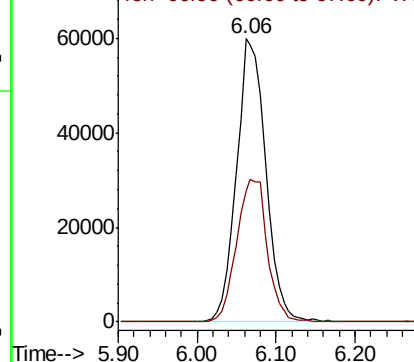
Ion Ratio Lower Upper

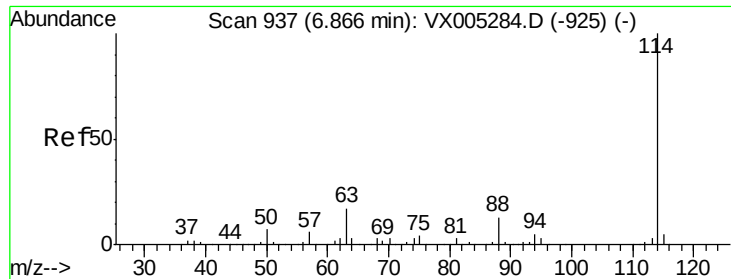
65 100

67 52.8 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

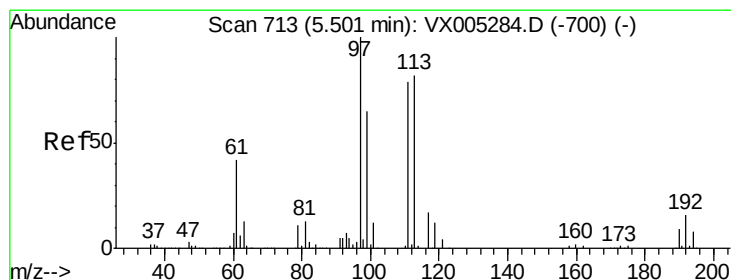
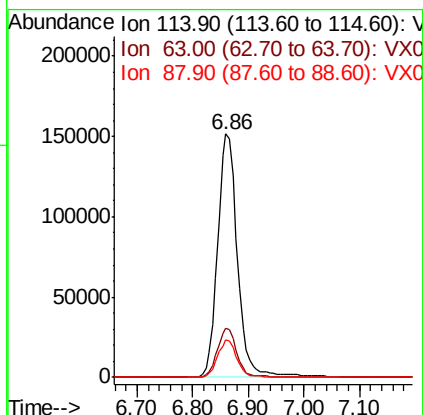
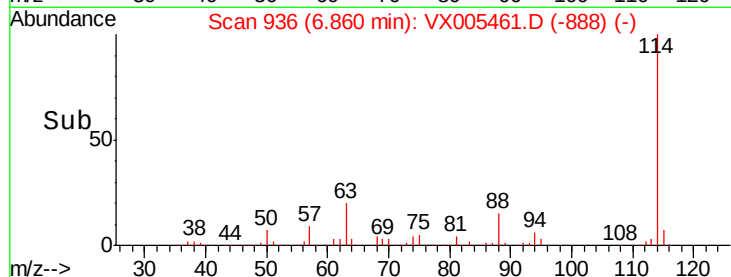
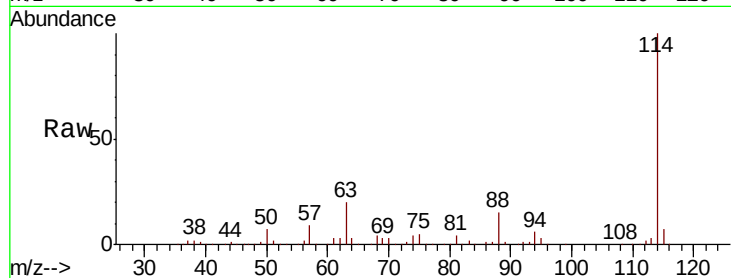




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005461.D
 Acq: 19 Oct 2018 16:33

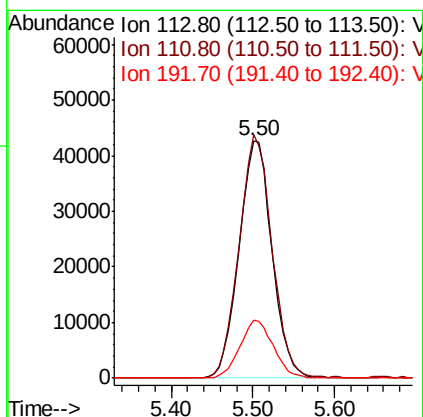
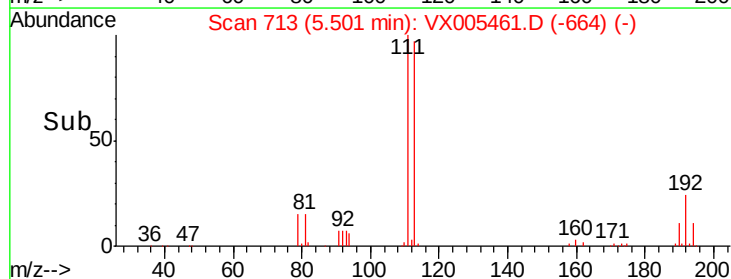
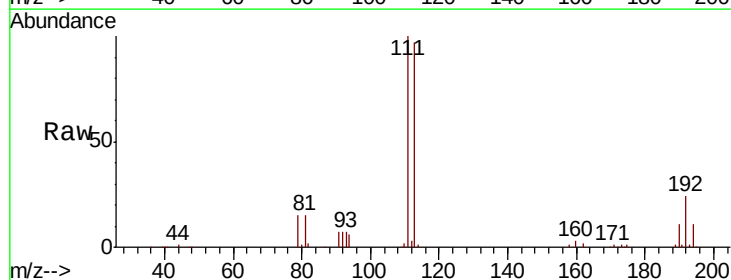
Instrument :
 MSVOA_X
 ClientSampleId :
 RAV-SP9

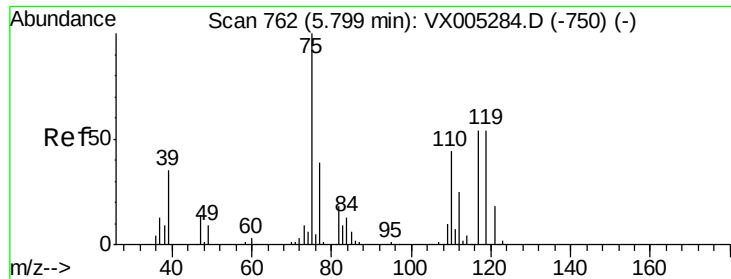
Tot Ion:114 Resp: 375203
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.0
 88 15.2 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 48.131 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005461.D
 Acq: 19 Oct 2018 16:33

Tgt Ion:113 Resp: 119609
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.4 123.6
 192 24.6 19.4 29.2





#36

1,1-Dichloropropene

Concen: 4.631 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005461.D

Acq: 19 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampled :

RAV-SP9

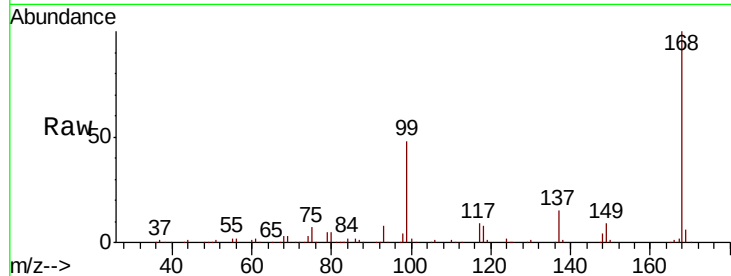
Tot Ion: 75 Resp: 16827

Ion Ratio Lower Upper

75 100

110 9.3 18.0 54.0#

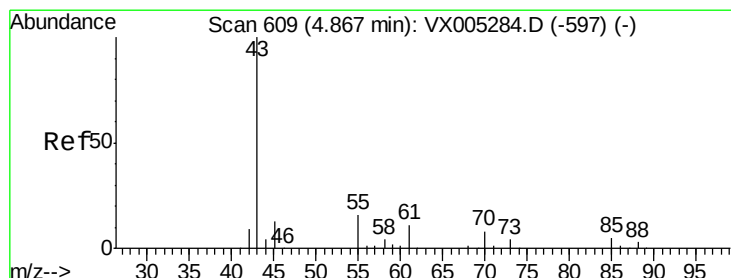
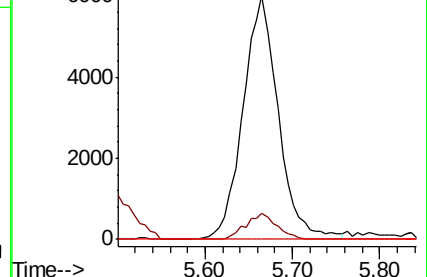
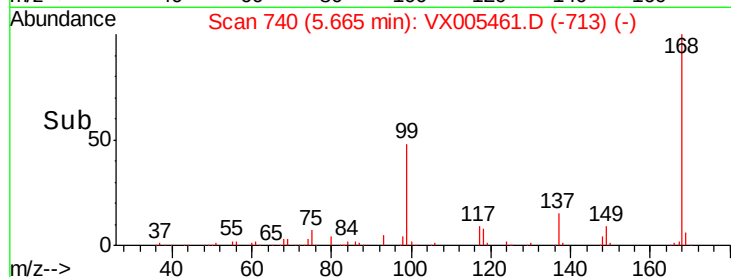
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 1.097 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.16 min

Lab File: VX005461.D

Acq: 19 Oct 2018 16:33

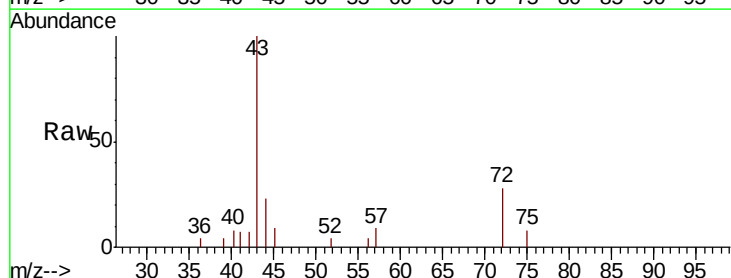
Tgt Ion: 43 Resp: 5128

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

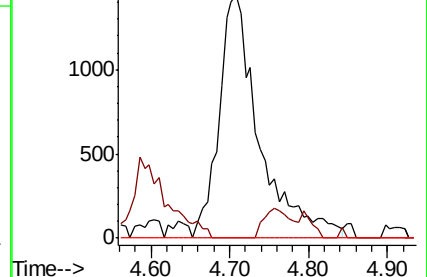
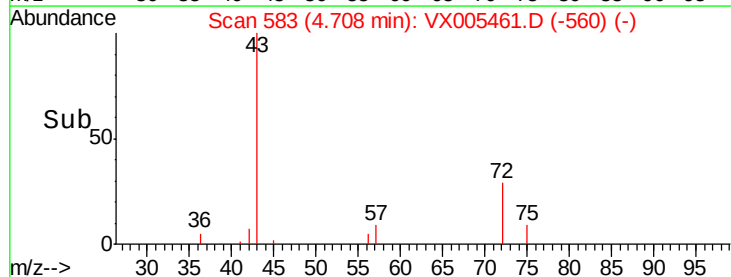
70 0.0 9.0 13.6#

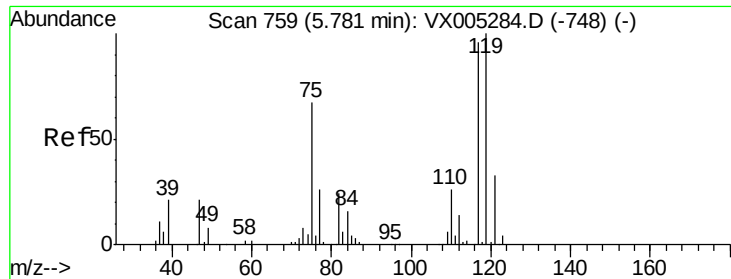


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0

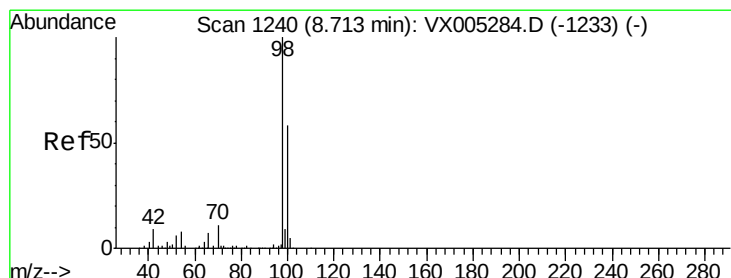
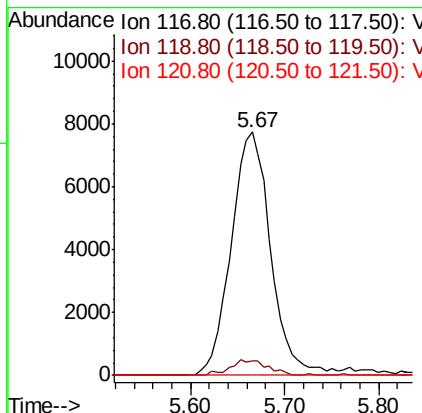
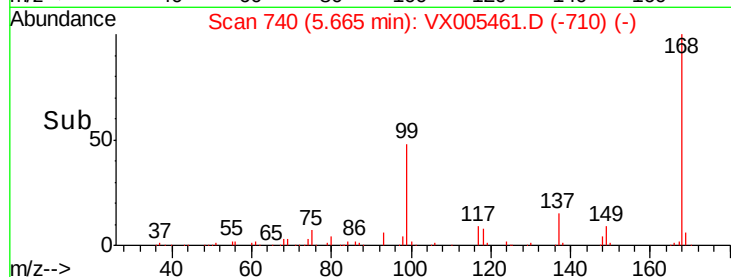
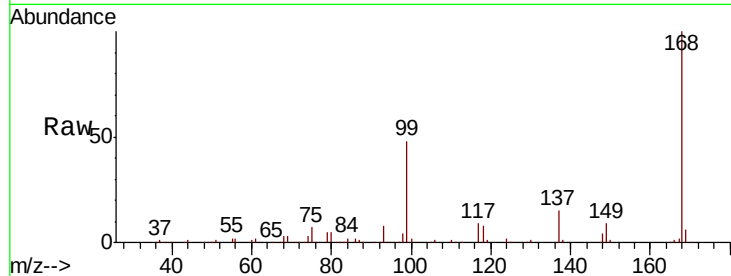




#38
Carbon Tetrachloride
Concen: 6.202 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005461.D
Acq: 19 Oct 2018 16:33

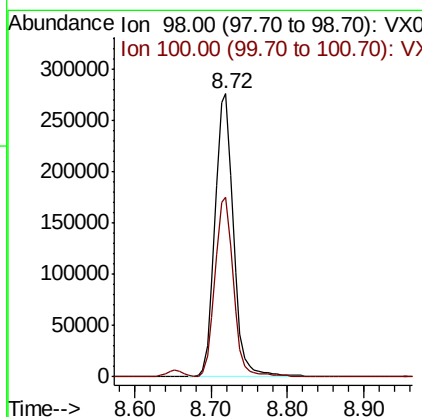
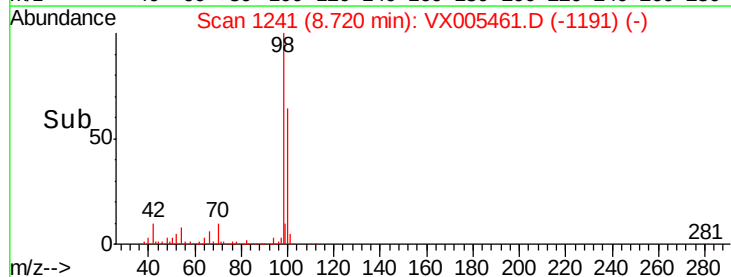
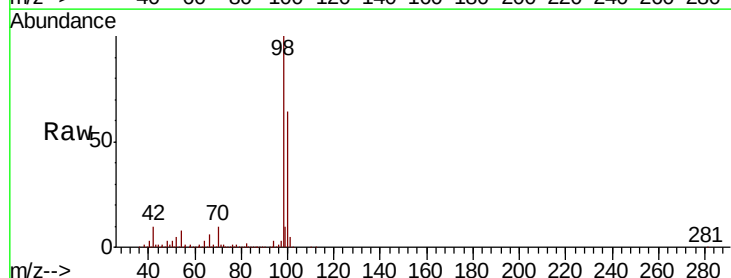
Instrument :
MSVOA_X
ClientSampled :
RAV-SP9

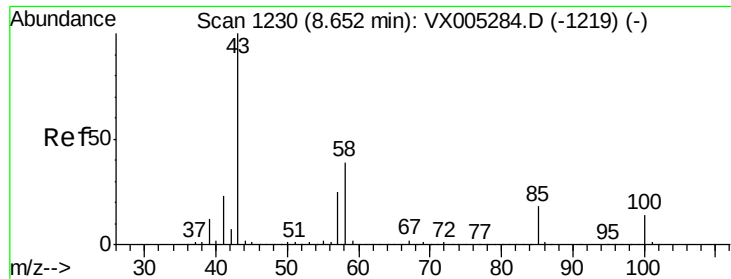
Tot Ion:117 Resp: 22644
Ion Ratio Lower Upper
117 100
119 6.2 78.8 118.2#
121 0.0 24.9 37.3#



#50
Toluene-d8
Concen: 54.178 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VX005461.D
Acq: 19 Oct 2018 16:33

Tgt Ion: 98 Resp: 462217
Ion Ratio Lower Upper
98 100
100 63.9 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 16.606 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. -0.00 min

Lab File: VX005461.D

Acq: 19 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

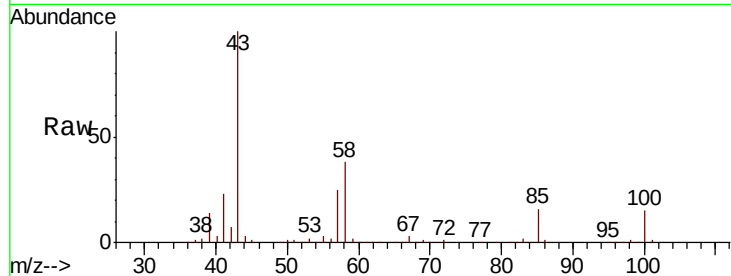
RAV-SP9

Tot Ion: 43 Resp: 71576

Ion Ratio Lower Upper

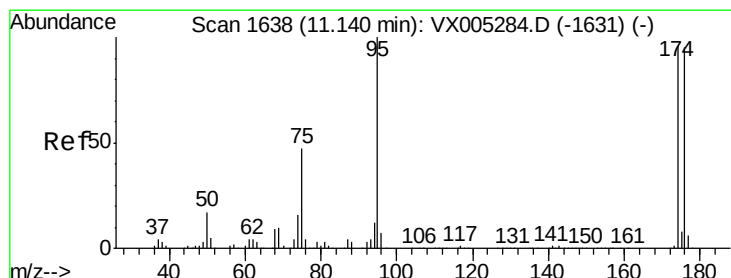
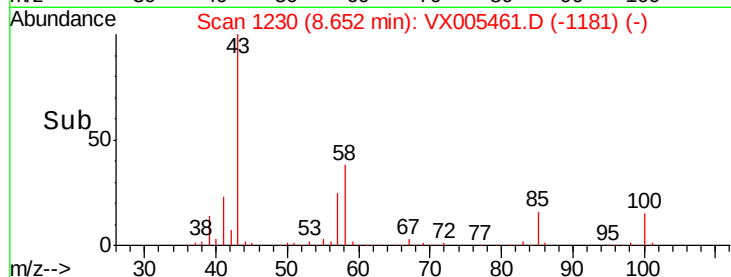
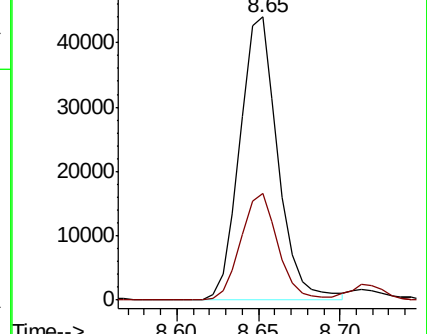
43 100

58 36.7 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 46.002 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005461.D

Acq: 19 Oct 2018 16:33

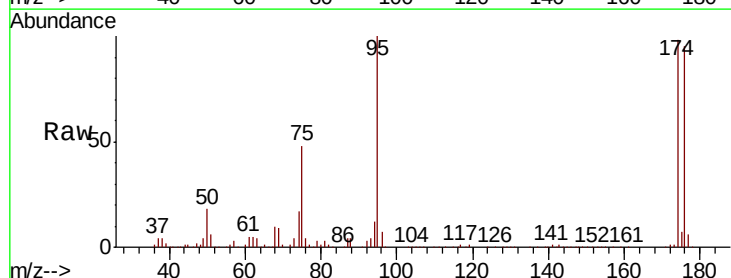
Tgt Ion: 95 Resp: 147432

Ion Ratio Lower Upper

95 100

174 95.7 0.0 185.2

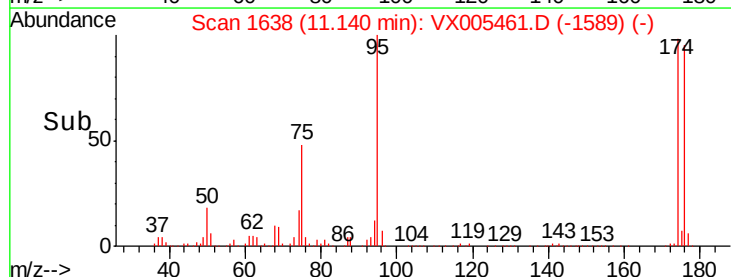
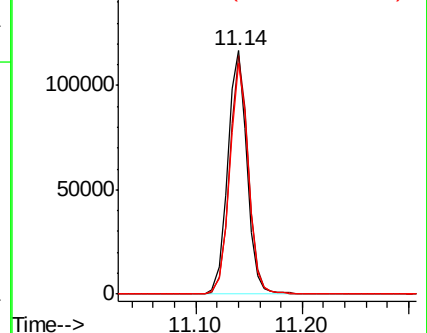
176 92.5 0.0 178.6

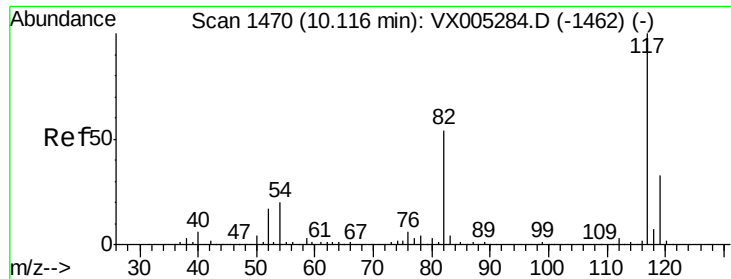


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

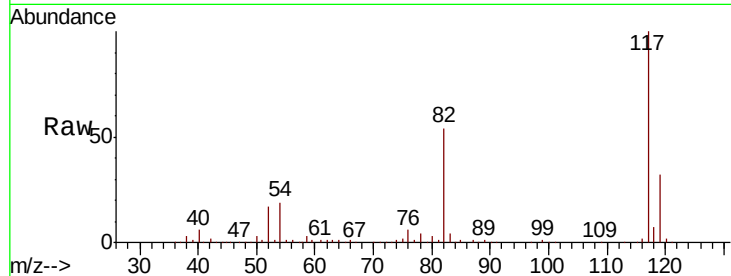




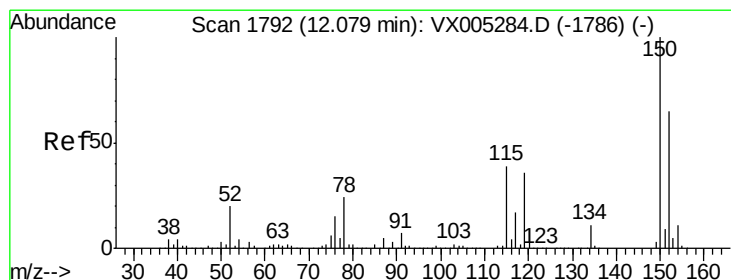
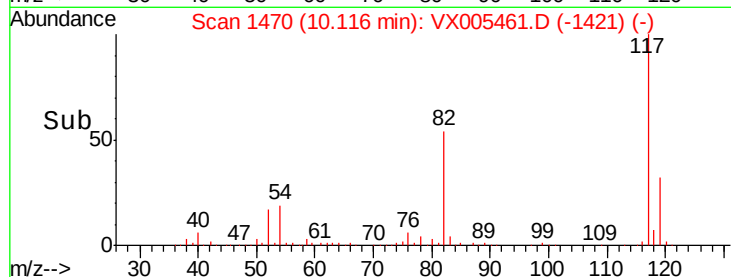
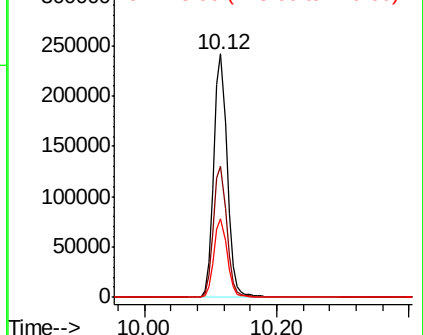
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005461.D
Acq: 19 Oct 2018 16:33

Instrument :
MSVOA_X
ClientSampleId :
RAV-SP9

Tot Ion:117 Resp: 337817
Ion Ratio Lower Upper
117 100
82 53.7 47.8 71.6
119 32.3 29.3 43.9

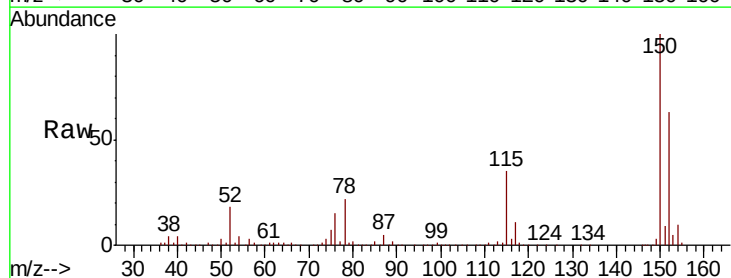


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

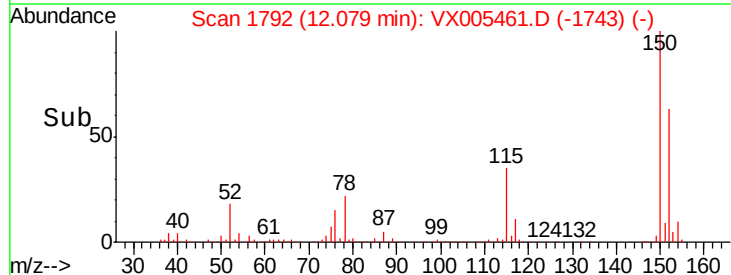
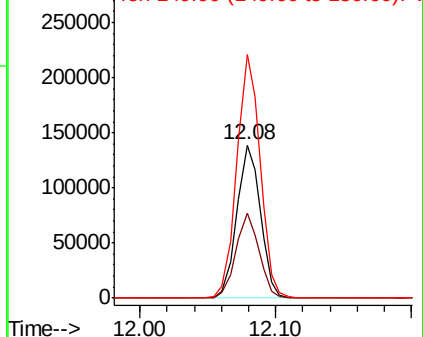


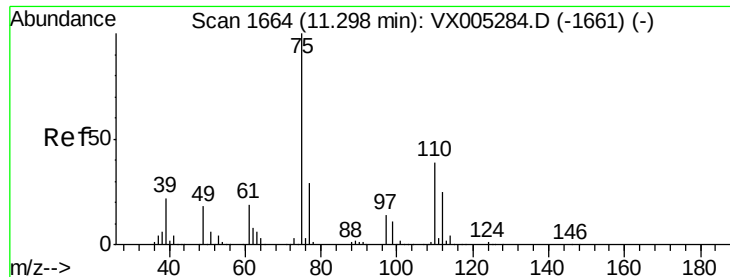
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005461.D
Acq: 19 Oct 2018 16:33

Tgt Ion:152 Resp: 167164
Ion Ratio Lower Upper
152 100
115 54.6 39.0 117.0
150 157.8 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.189 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005461.D

Acq: 19 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampled :

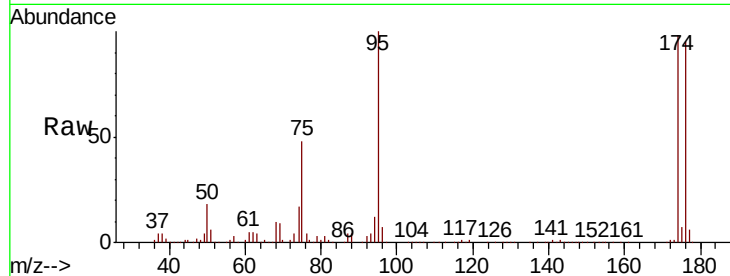
RAV-SP9

Tot Ion: 75 Resp: 71949

Ion Ratio Lower Upper

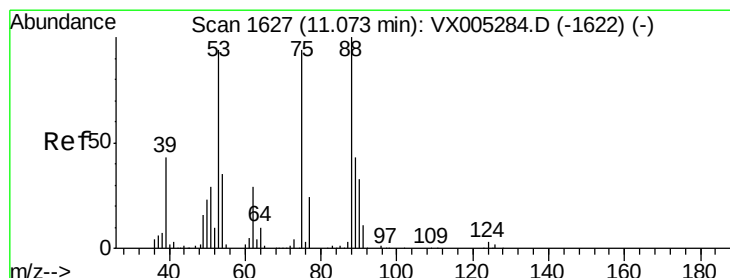
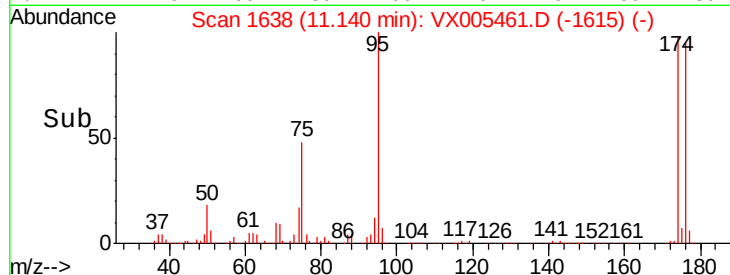
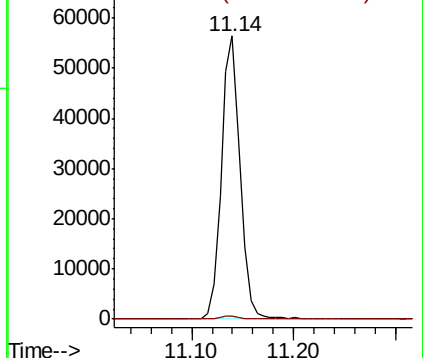
75 100

77 1.3 20.2 60.6#



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: 67.422 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005461.D

Acq: 19 Oct 2018 16:33

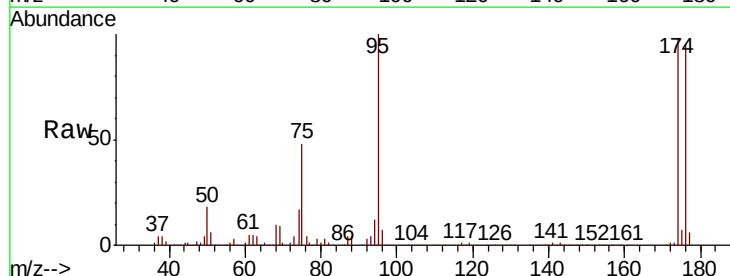
Tgt Ion: 75 Resp: 71949

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

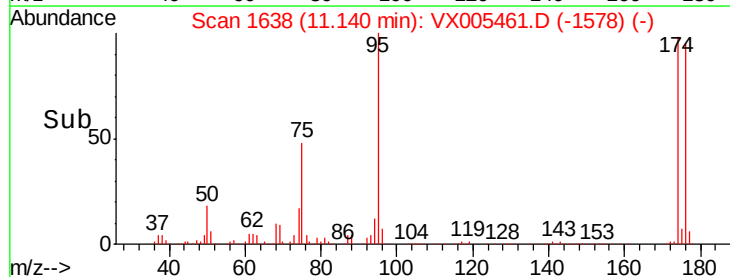
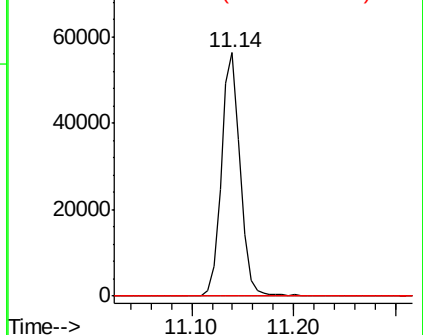
89 0.0 37.2 55.8#

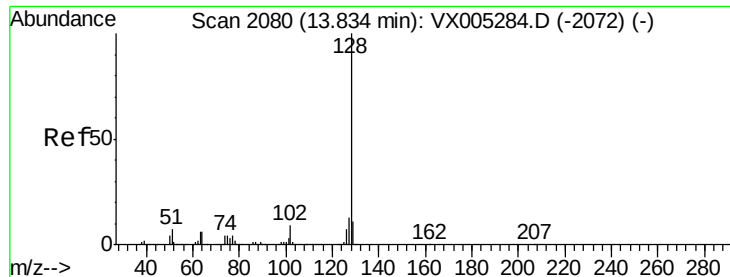


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 0.231 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005461.D

Acq: 19 Oct 2018 16:33

Instrument :

MSVOA_X

ClientSampleId :

RAV-SP9

Tot Ion:128 Resp: 2661

Ion Ratio Lower Upper

128 100

127 15.0 10.2 15.2

129 10.7 8.6 12.8

