

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102218\
 Data File : VX005505.D
 Acq On : 23 Oct 2018 07:40
 Operator : JC/MD
 Sample : J5603-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RAV-GT106

Quant Time: Oct 23 08:19:01 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

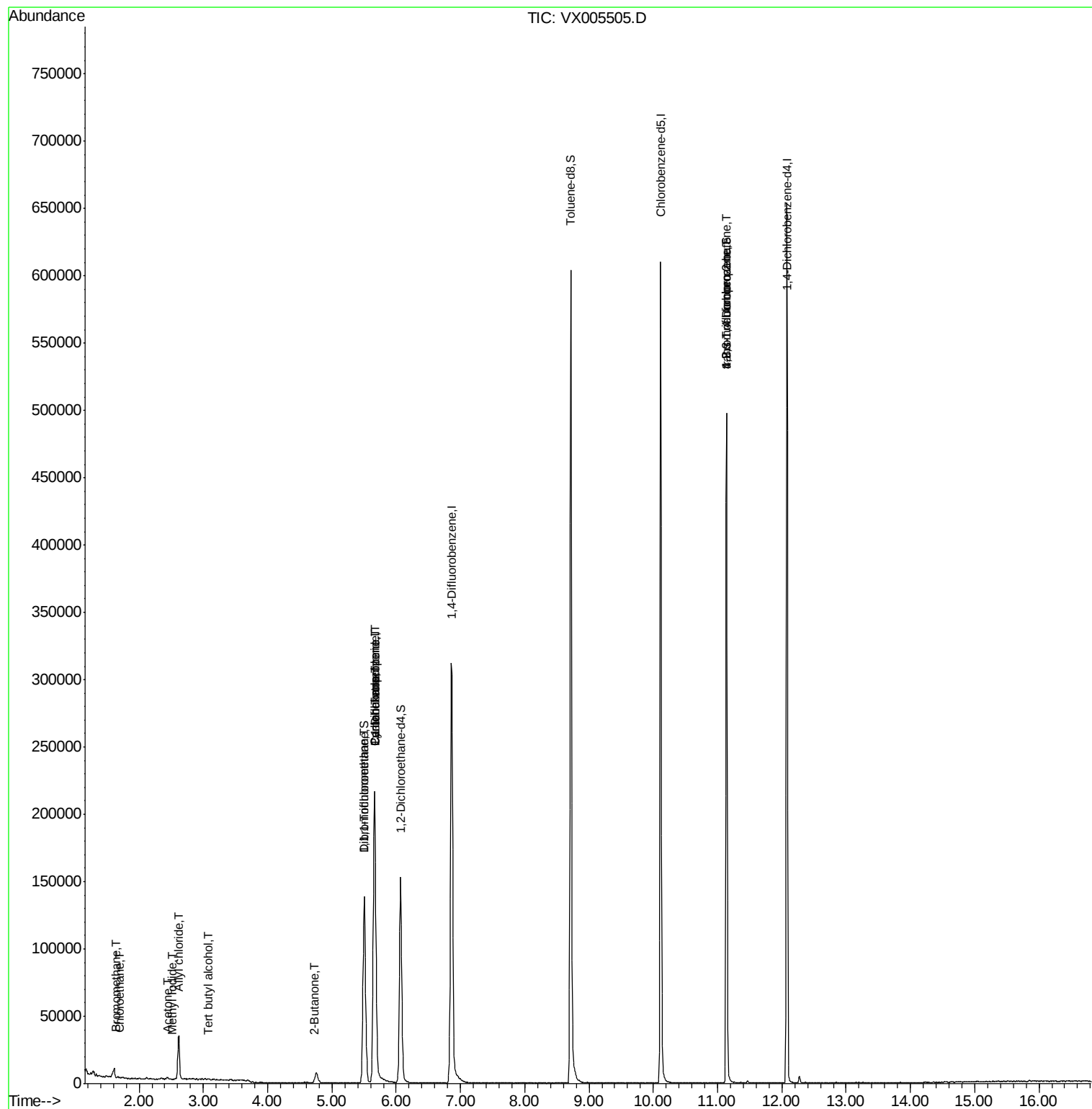
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	221626	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	323858	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	287623	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	135349	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	142777	58.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	116.10%	
35) Dibromofluoromethane	5.51	113	111981	52.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.42%	
50) Toluene-d8	8.72	98	386385	52.47	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.94%	
62) 4-Bromofluorobenzene	11.14	95	124690	45.07	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.14%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.64	94	294	0.786	ug/l #	77
6) Chloroethane	1.70	64	36	0.356	ug/l #	44
10) Methyl Iodide	2.51	142	69	2.519	ug/l #	77
11) Tert butyl alcohol	3.07	59	294	0.424	ug/l #	9
13) Acrolein	2.31	56	154	Below Cal	#	16
14) Allyl chloride	2.61	41	3399	0.798	ug/l #	60
16) Acetone	2.45	43	1957	1.376	ug/l	97
20) Methylene Chloride	2.85	84	151	Below Cal	#	76
25) 2-Butanone	4.72	43	486	0.234	ug/l #	47
31) Cyclohexane	5.66	56	4313	1.276	ug/l #	19
32) 1,1,1-Trichloroethane	5.49	97	919	0.277	ug/l #	45
36) 1,1-Dichloropropene	5.67	75	15740	5.018	ug/l #	51
38) Carbon Tetrachloride	5.67	117	21287	6.754	ug/l #	15
76) 1,2,3-Trichloropropane	11.14	75	62500	23.806	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	62500	72.334	ug/l #	10

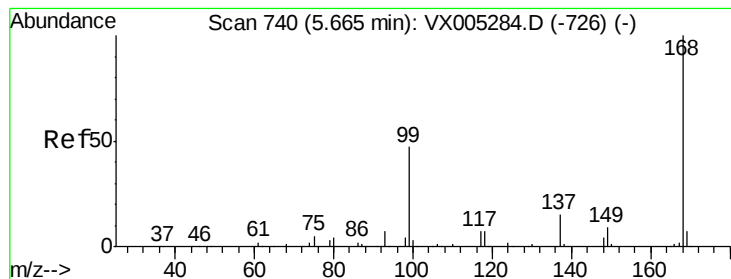
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 12 11:28:43 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005505.D

Acq: 23 Oct 2018 07:40

Instrument :

MSVOA_X

ClientSampleId :

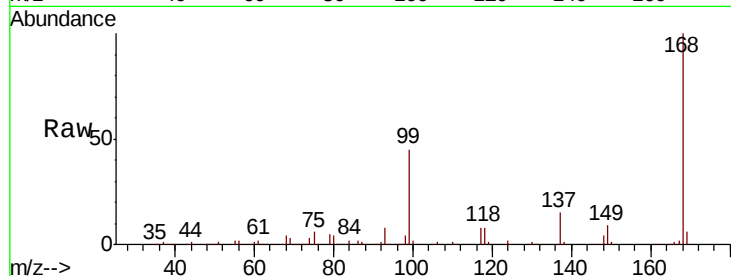
RAV-GT106

Tot Ion:168 Resp: 221626

Ion Ratio Lower Upper

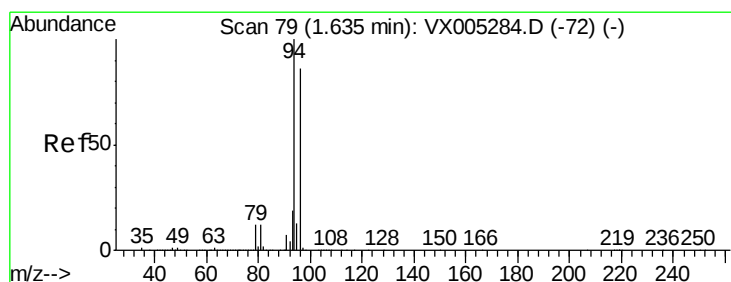
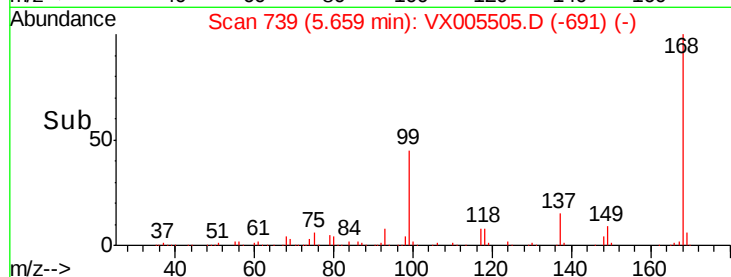
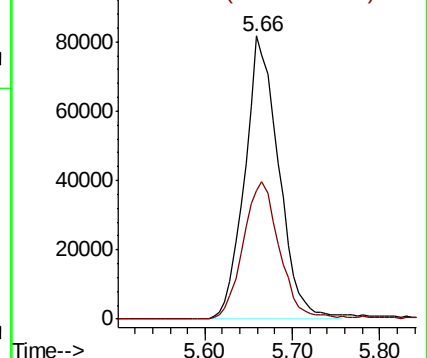
168 100

99 45.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.786 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005505.D

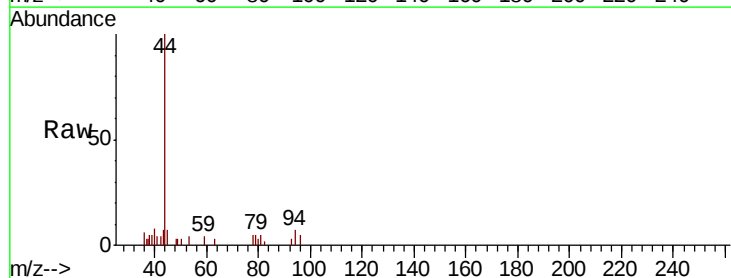
Acq: 23 Oct 2018 07:40

Tgt Ion: 94 Resp: 294

Ion Ratio Lower Upper

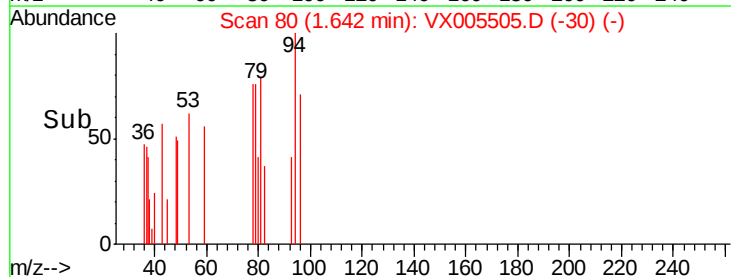
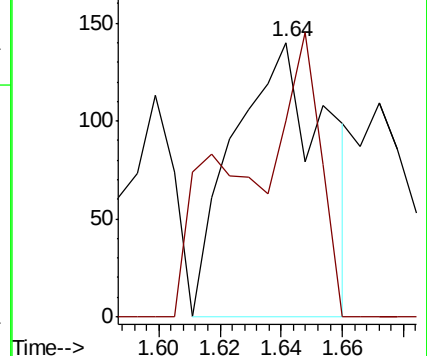
94 100

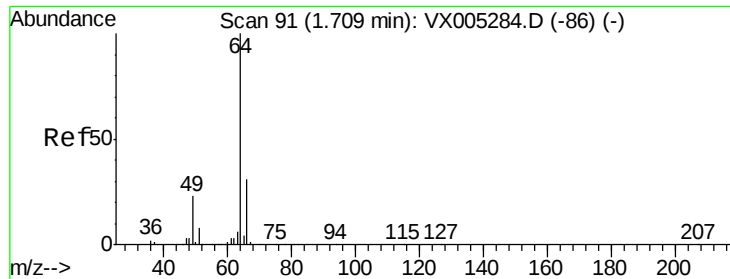
96 71.4 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.356 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX005505.D

Acq: 23 Oct 2018 07:40

Instrument :

MSVOA_X

ClientSampleId :

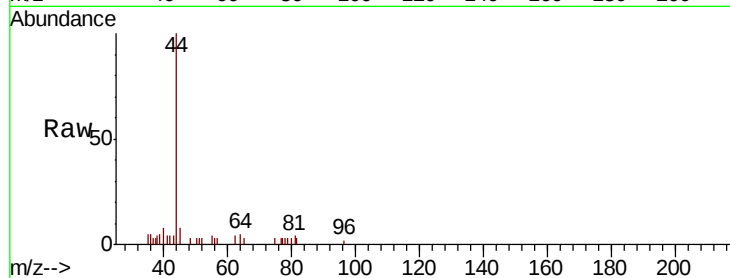
RAV-GT106

Tot Ion: 64 Resp: 36

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

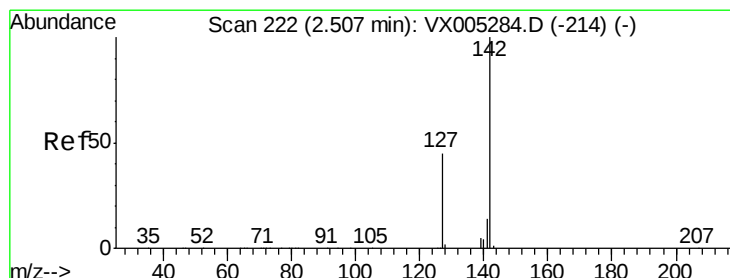
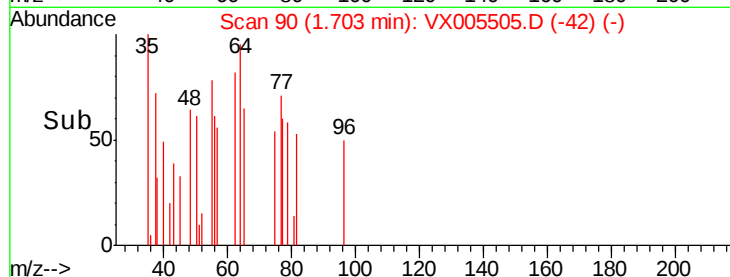
Ion 65.90 (65.60 to 66.60): VX0

1.70

1.71

1.72

Time-->



#10

Methyl Iodide

Concen: 2.519 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005505.D

Acq: 23 Oct 2018 07:40

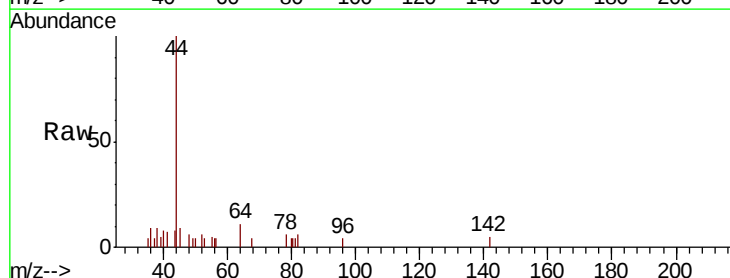
Tgt Ion: 142 Resp: 69

Ion Ratio Lower Upper

142 100

127 30.4 33.8 50.6#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

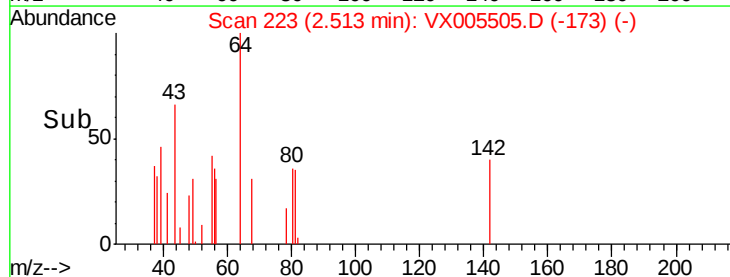
Ion 140.80 (140.50 to 141.50): V

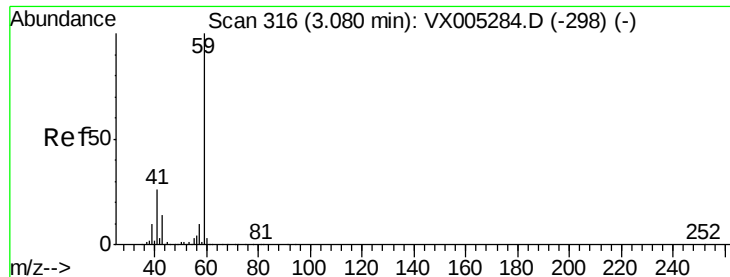
2.51

2.52

2.54

Time-->



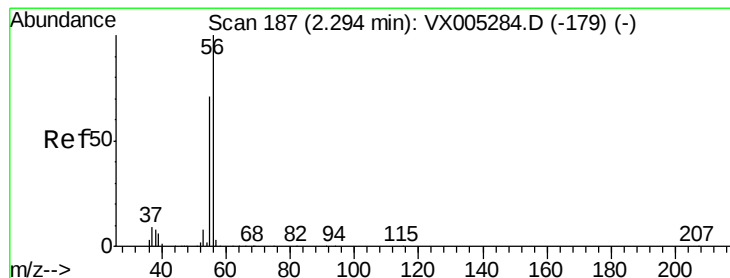
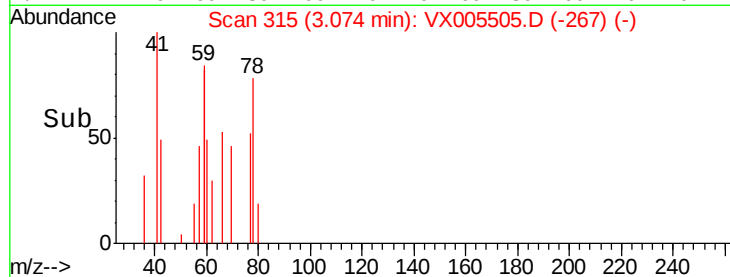
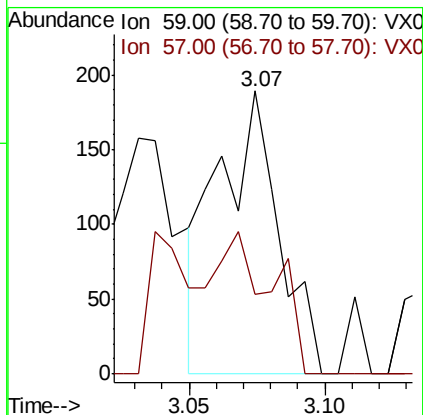
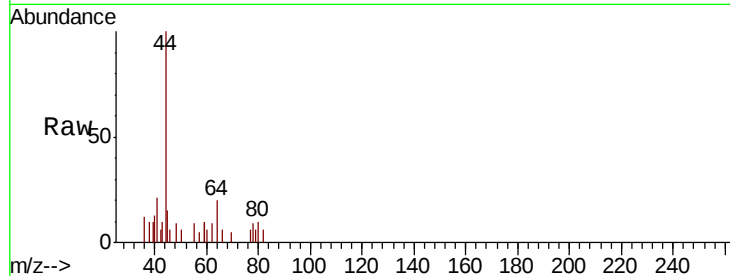


#11

Tert butyl alcohol
 Concen: 0.424 ug/l
 RT: 3.07 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX005505.D
 Acq: 23 Oct 2018 07:40

Instrument :
 MSVOA_X
 ClientSampleId :
 RAV-GT106

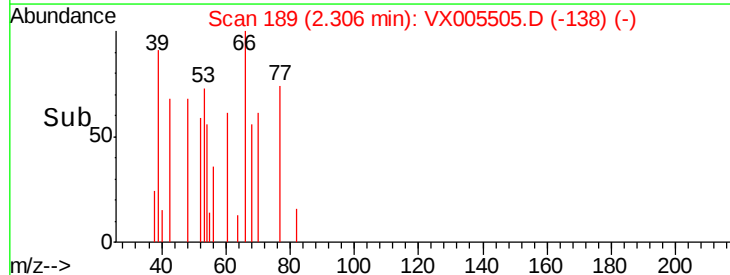
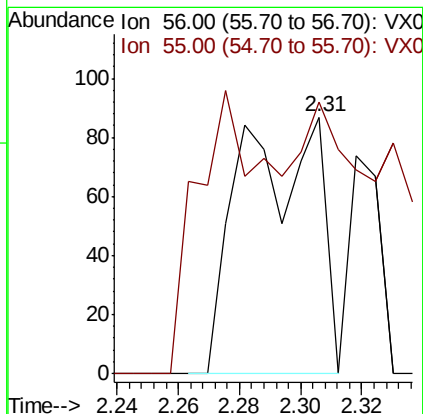
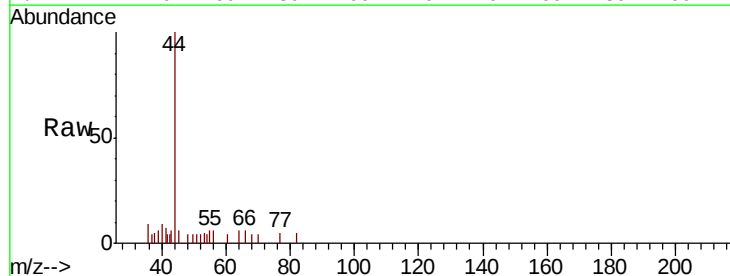
Tot Ion: 59 Resp: 294
 Ion Ratio Lower Upper
 59 100
 57 44.2 8.2 12.4#

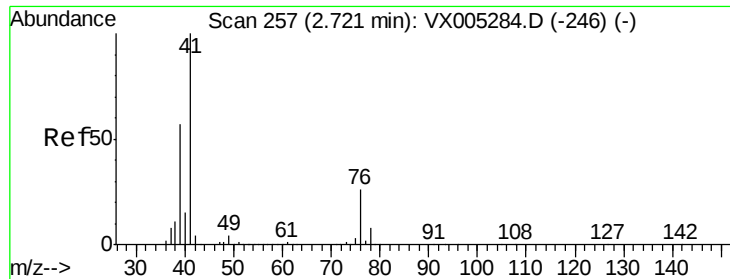


#13

Acrolein
 Concen: Below Cal
 RT: 2.31 min Scan# 189
 Delta R.T. 0.01 min
 Lab File: VX005505.D
 Acq: 23 Oct 2018 07:40

Tgt Ion: 56 Resp: 154
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.7 82.1#

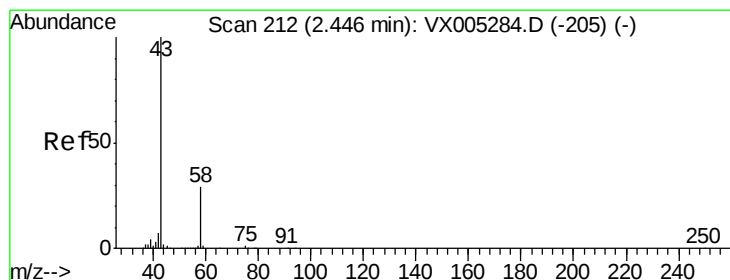
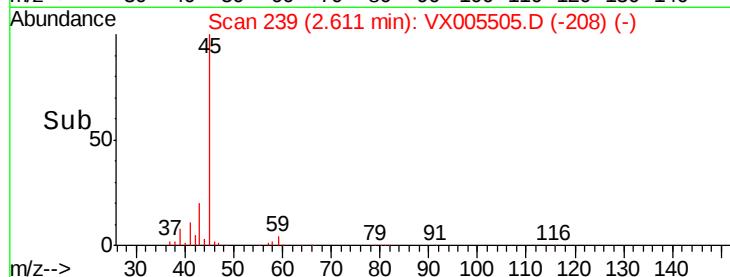
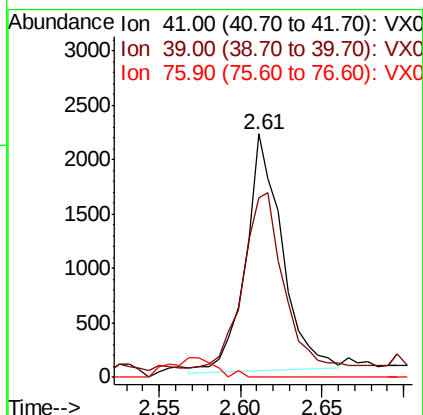
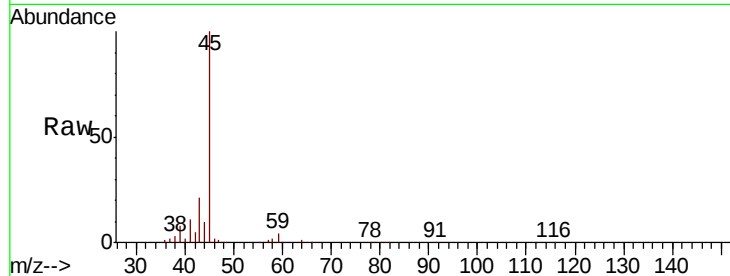




#14
Allvl chloride
Concen: 0.798 ug/l
RT: 2.61 min Scan# 239
Delta R.T. -0.11 min
Lab File: VX005505.D
Acq: 23 Oct 2018 07:40

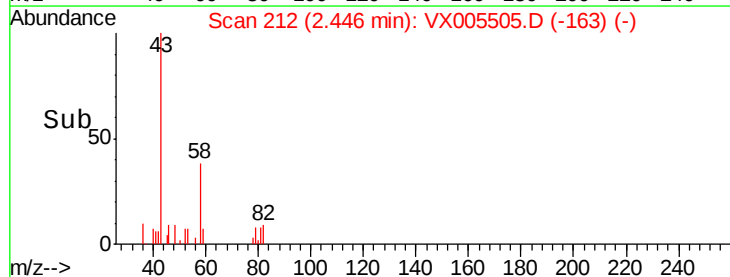
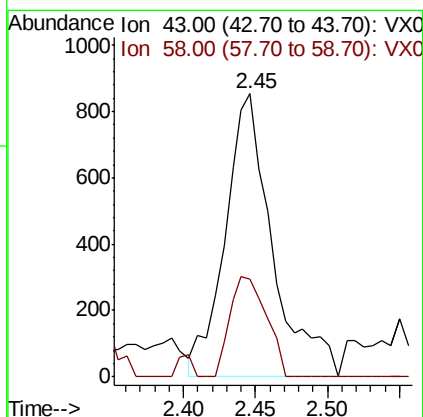
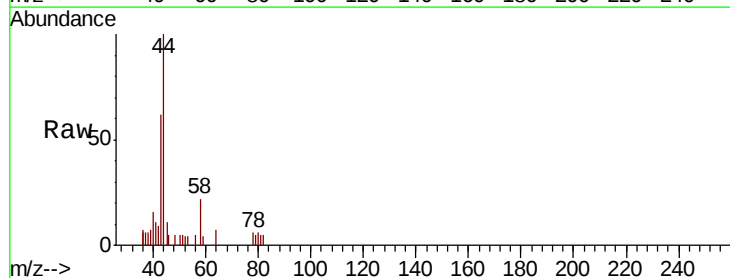
Instrument :
MSVOA_X
ClientSampleId :
RAV-GT106

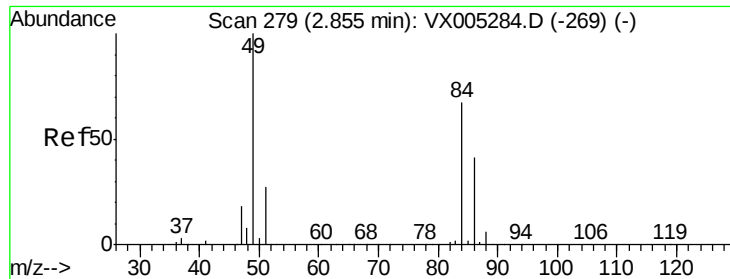
Tot Ion: 41 Resp: 3399
Ion Ratio Lower Upper
41 100
39 83.4 48.9 73.3#
76 0.0 26.7 40.1#



#16
Acetone
Concen: 1.376 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX005505.D
Acq: 23 Oct 2018 07:40

Tgt Ion: 43 Resp: 1957
Ion Ratio Lower Upper
43 100
58 34.7 26.2 39.4





#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX005505.D

Acq: 23 Oct 2018 07:40

Instrument :
MSVOA_X
ClientSampled :
RAV-GT106

Tot Ion: 84 Resp: 151

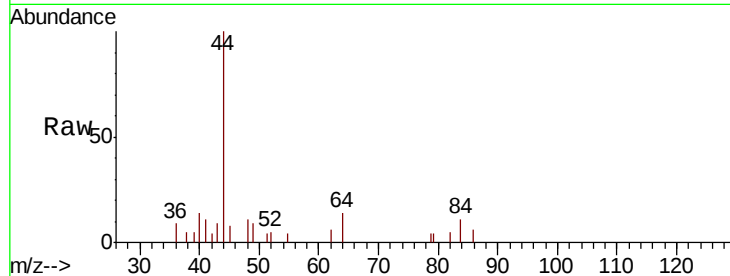
Ion Ratio Lower Upper

84 100

49 87.9 101.2 151.8#

51 40.7 29.5 44.3

86 54.3 52.3 78.5

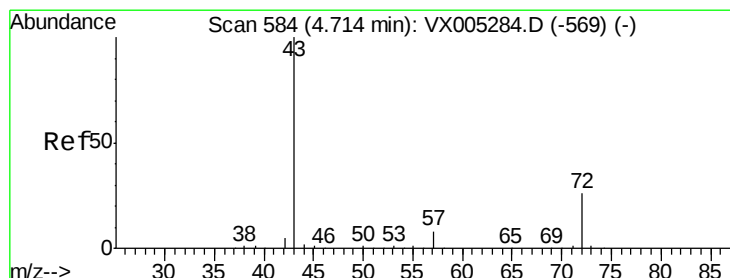
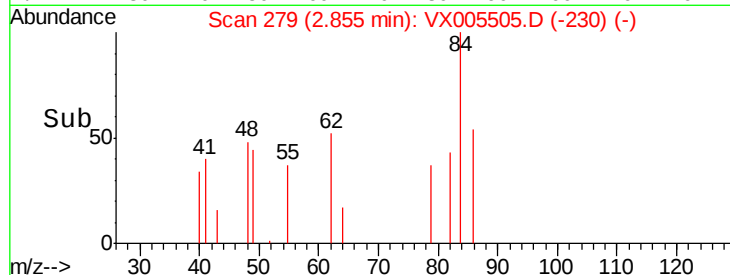
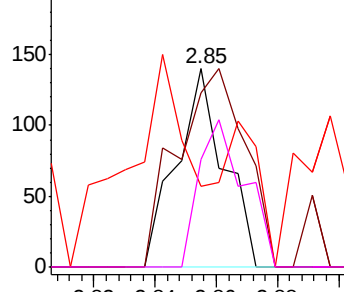


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.234 ug/l

RT: 4.72 min Scan# 585

Delta R.T. 0.01 min

Lab File: VX005505.D

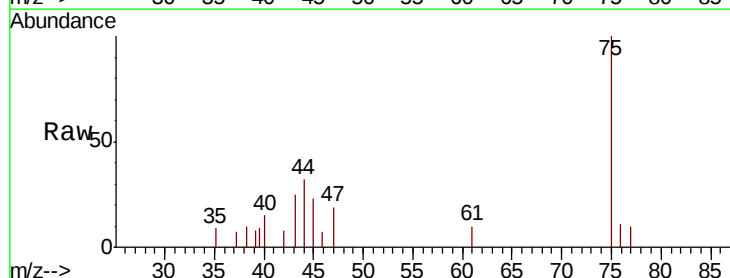
Acq: 23 Oct 2018 07:40

Tgt Ion: 43 Resp: 486

Ion Ratio Lower Upper

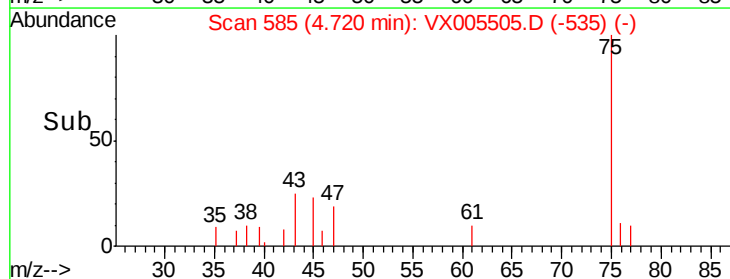
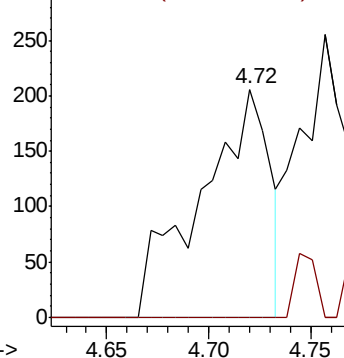
43 100

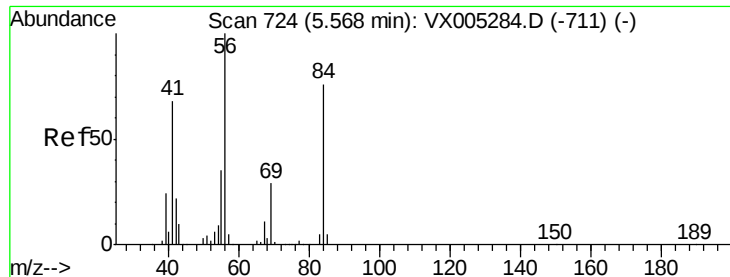
72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

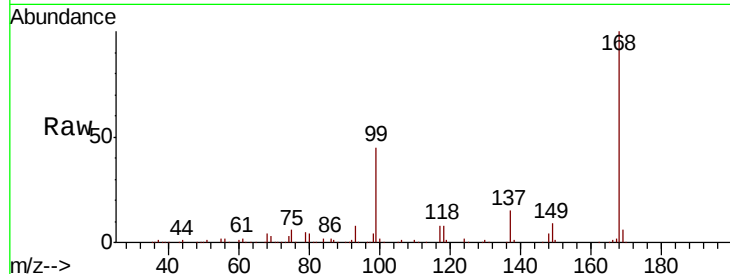




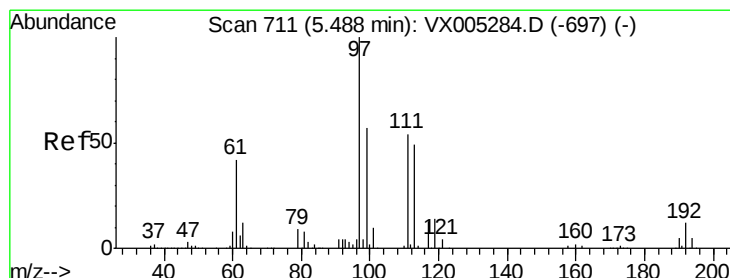
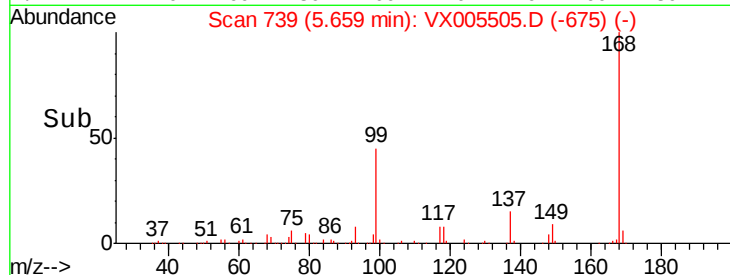
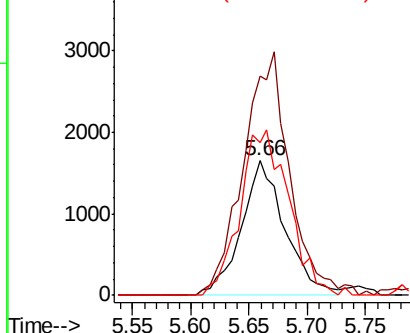
#31
Cyclohexane
Concen: 1.276 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005505.D
Acq: 23 Oct 2018 07:40

Instrument :
MSVOA_X
ClientSampleId :
RAV-GT106

Tot Ion: 56 Resp: 4313
Ion Ratio Lower Upper
56 100
69 163.6 25.4 38.2#
84 113.7 71.4 107.2#

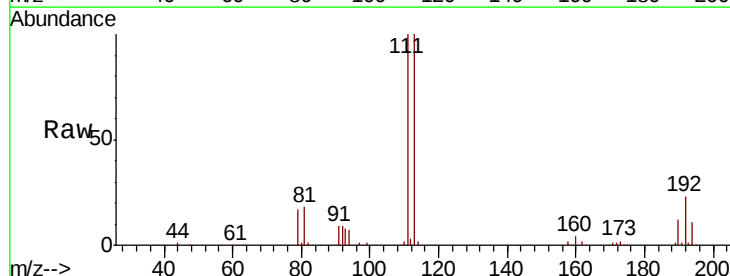


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

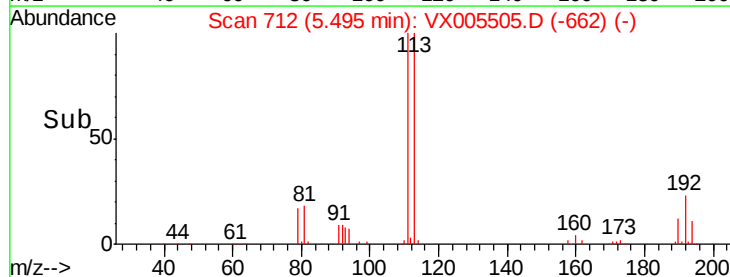
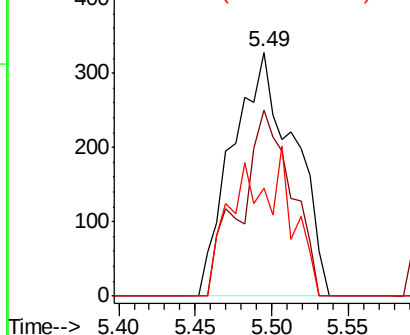


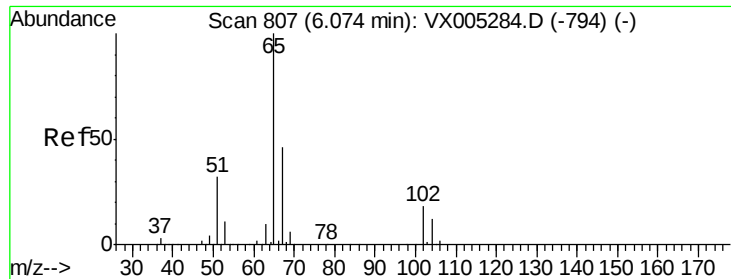
#32
1,1,1-Trichloroethane
Concen: 0.277 ug/l
RT: 5.49 min Scan# 712
Delta R.T. 0.01 min
Lab File: VX005505.D
Acq: 23 Oct 2018 07:40

Tgt Ion: 97 Resp: 919
Ion Ratio Lower Upper
97 100
99 0.0 52.0 78.0#
61 34.8 34.9 52.3#



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 58.046 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX005505.D

Acq: 23 Oct 2018 07:40

Instrument :

MSVOA_X

ClientSampleId :

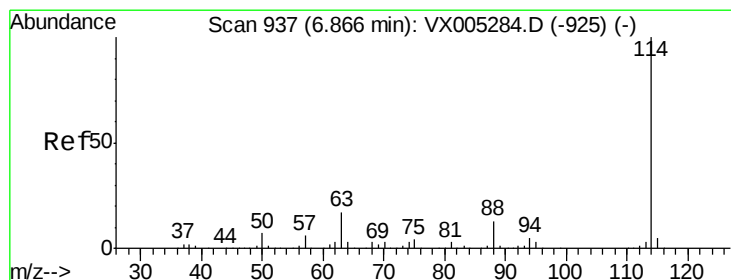
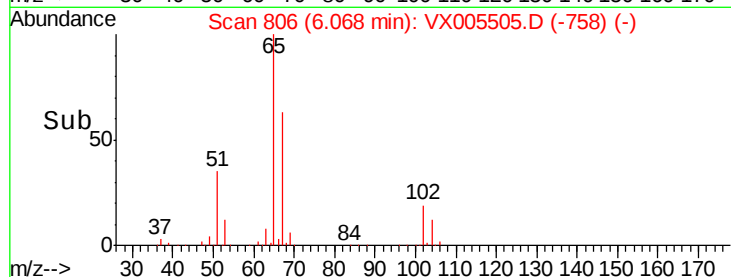
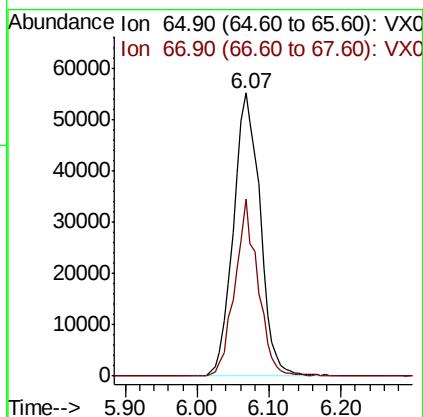
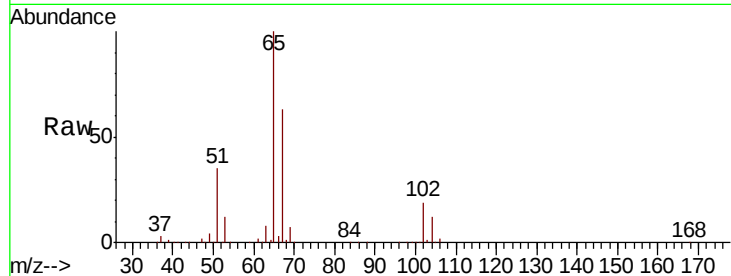
RAV-GT106

Tot Ion: 65 Resp: 142777

Ion Ratio Lower Upper

65 100

67 53.9 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005505.D

Acq: 23 Oct 2018 07:40

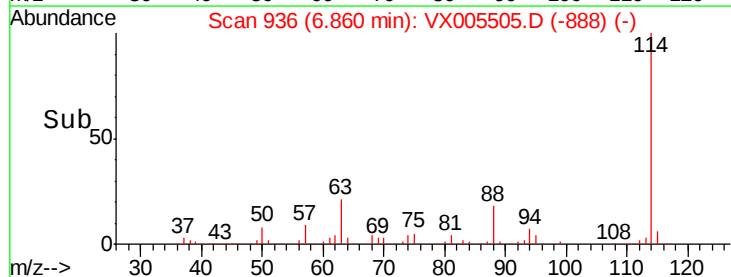
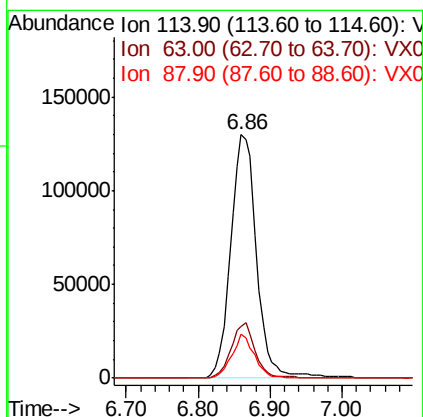
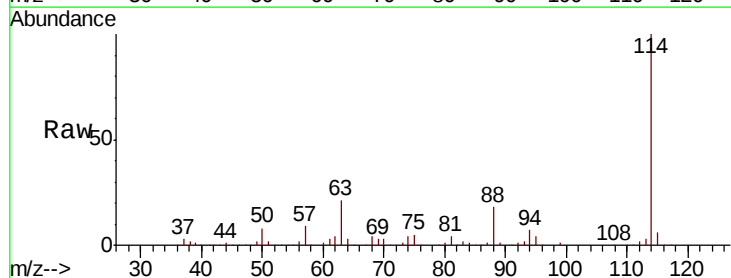
Tgt Ion: 114 Resp: 323858

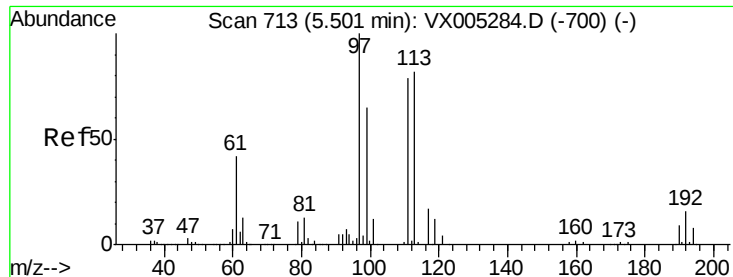
Ion Ratio Lower Upper

114 100

63 21.3 0.0 39.0

88 18.2 0.0 30.4

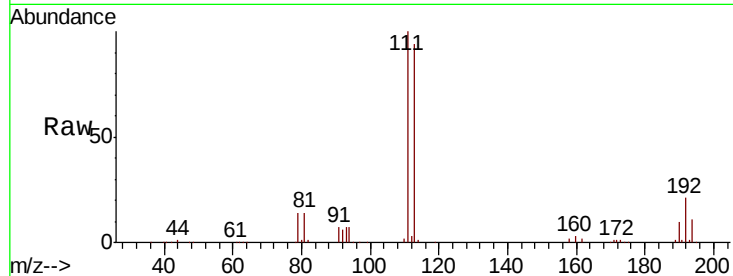




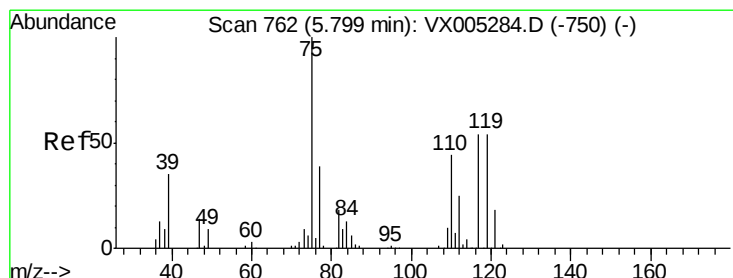
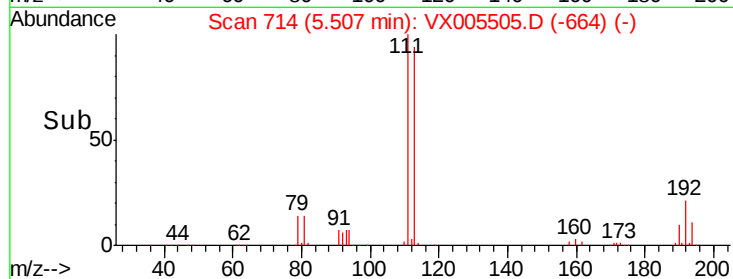
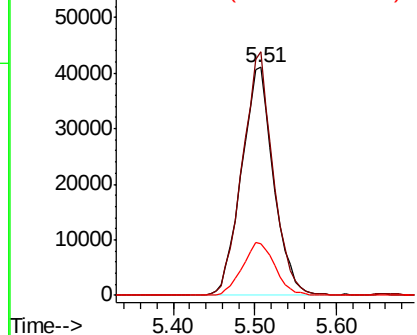
#35
 Dibromofluoromethane
 Concen: 52.206 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005505.D
 Acq: 23 Oct 2018 07:40

Instrument :
 MSVOA_X
 ClientSampleId :
 RAV-GT106

Tot Ion:113 Resp: 111981
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.4 123.6
 192 23.6 19.4 29.2

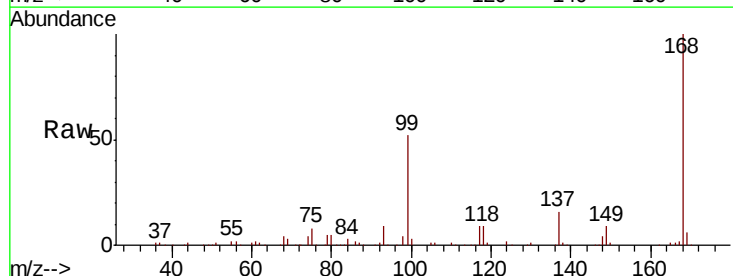


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

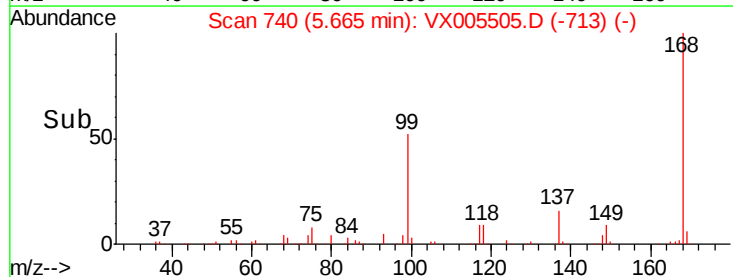
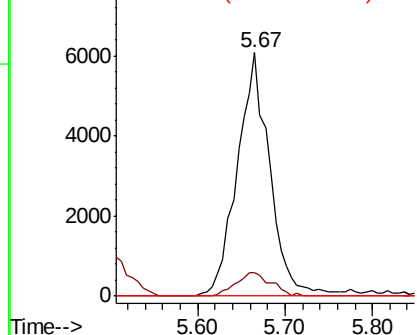


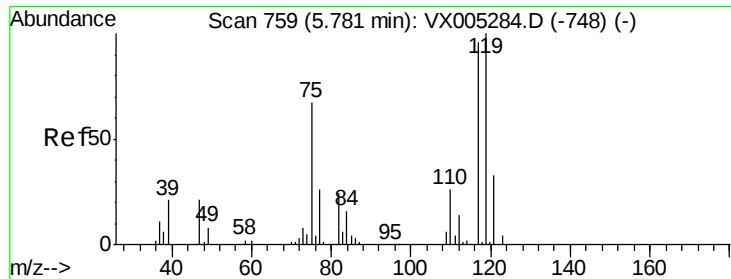
#36
 1,1-Dichloropropene
 Concen: 5.018 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005505.D
 Acq: 23 Oct 2018 07:40

Tgt Ion: 75 Resp: 15740
 Ion Ratio Lower Upper
 75 100
 110 10.5 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): V
 Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.754 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX005505.D

Acq: 23 Oct 2018 07:40

Instrument :

MSVOA_X

ClientSampleId :

RAV-GT106

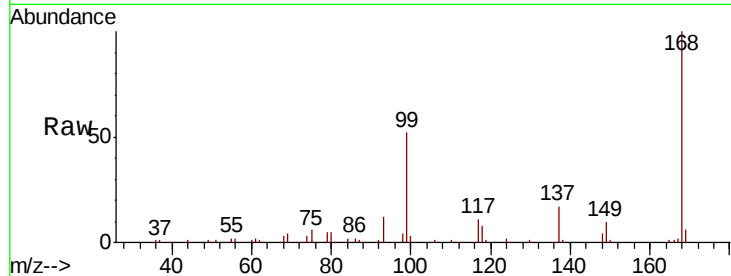
Tot Ion:117 Resp: 21287

Ion Ratio Lower Upper

117 100

119 5.3 78.8 118.2#

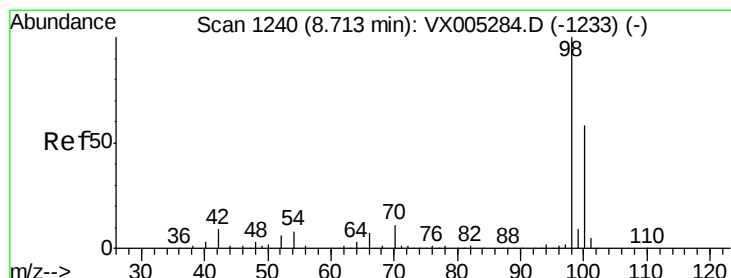
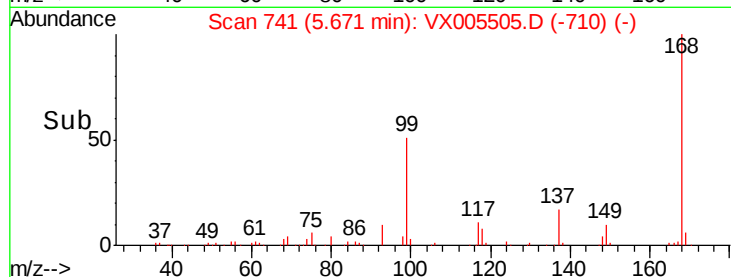
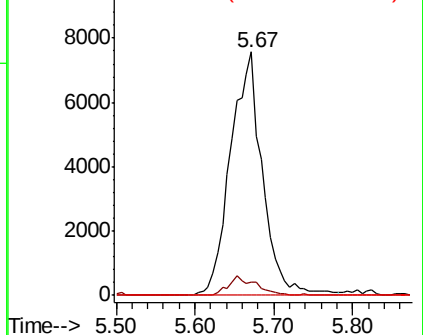
121 0.0 24.9 37.3#



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: 52.470 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX005505.D

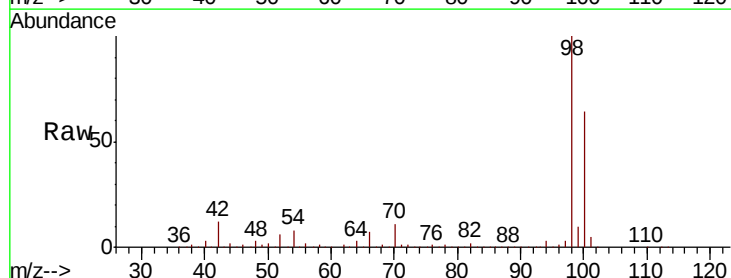
Acq: 23 Oct 2018 07:40

Tgt Ion: 98 Resp: 386385

Ion Ratio Lower Upper

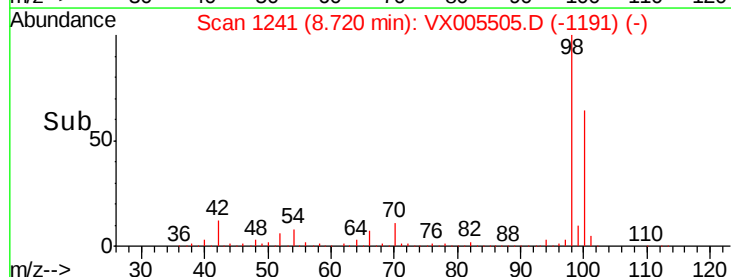
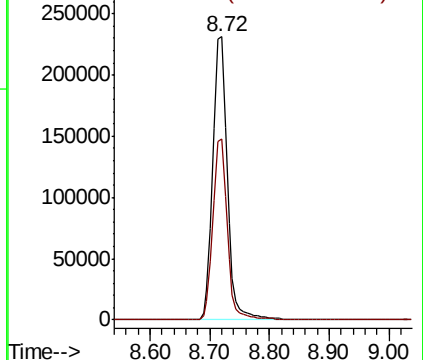
98 100

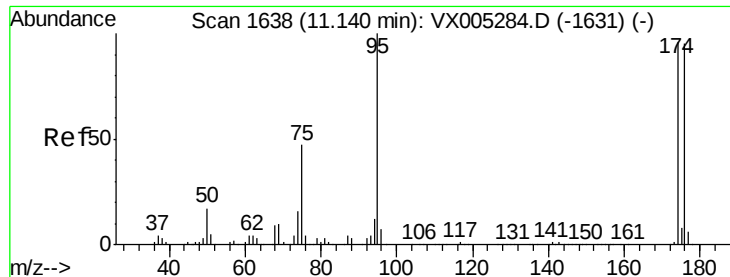
100 63.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.074 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005505.D

Acq: 23 Oct 2018 07:40

Instrument :

MSVOA_X

ClientSampleId :

RAV-GT106

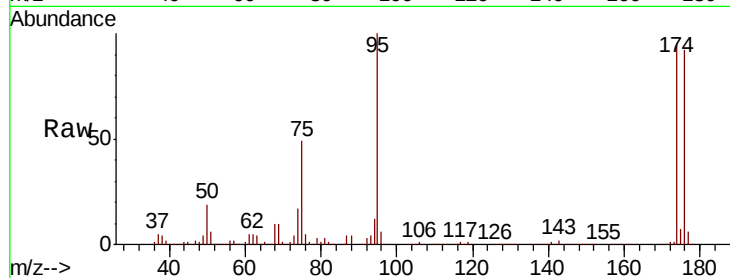
Tot Ion: 95 Resp: 124690

Ion Ratio Lower Upper

95 100

174 92.9 0.0 185.2

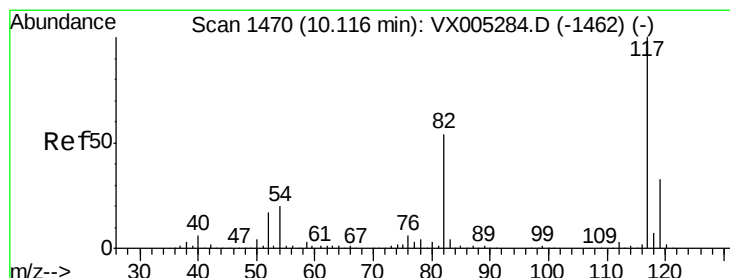
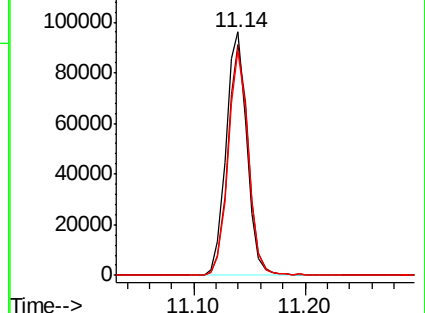
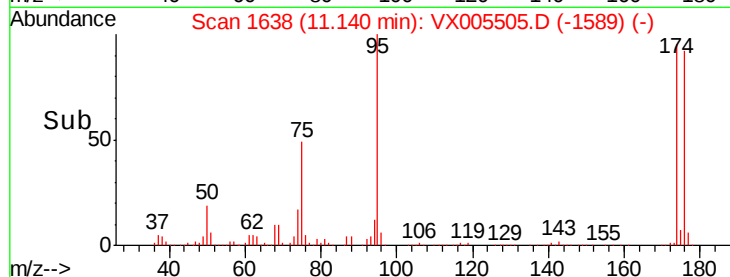
176 89.7 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX005505.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005505.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005505.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005505.D

Acq: 23 Oct 2018 07:40

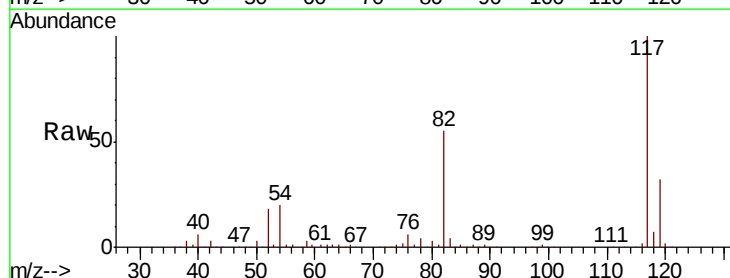
Tgt Ion: 117 Resp: 287623

Ion Ratio Lower Upper

117 100

82 55.0 47.8 71.6

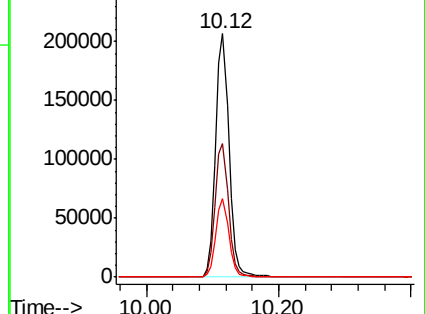
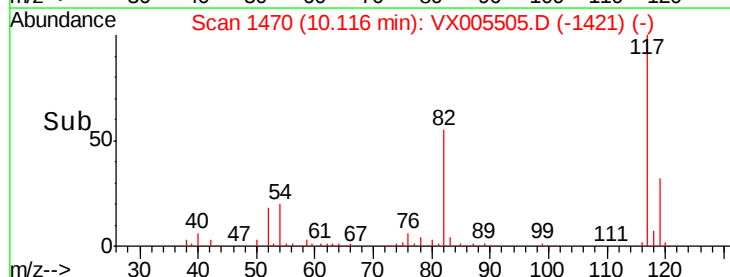
119 32.2 29.3 43.9

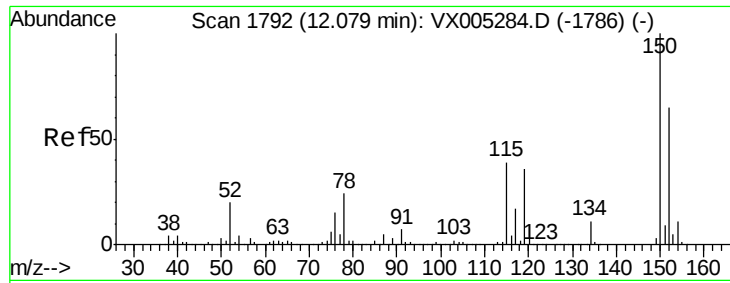


Abundance Ion 116.90 (116.60 to 117.60): VX005505.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005505.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005505.D (-1421) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005505.D

Acq: 23 Oct 2018 07:40

Instrument :

MSVOA_X

ClientSampleId :

RAV-GT106

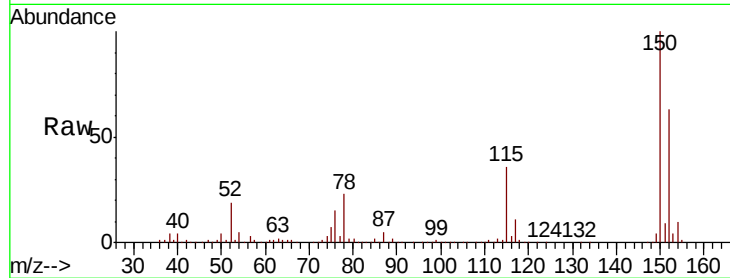
Tot Ion:152 Resp: 135349

Ion Ratio Lower Upper

152 100

115 55.3 39.0 117.0

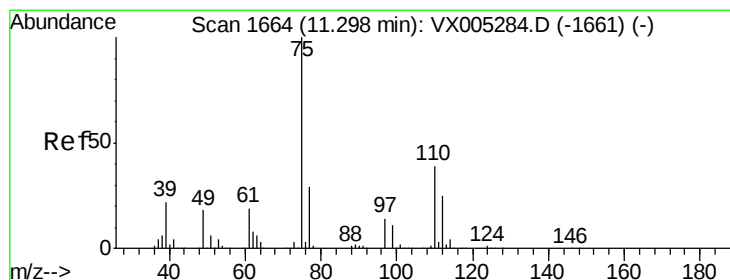
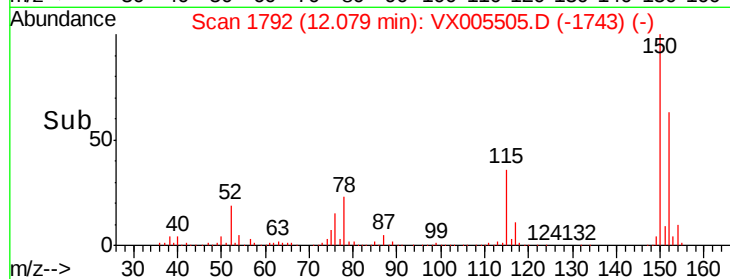
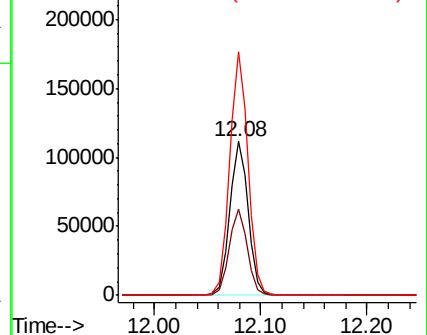
150 157.3 0.0 351.0



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: 23.806 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005505.D

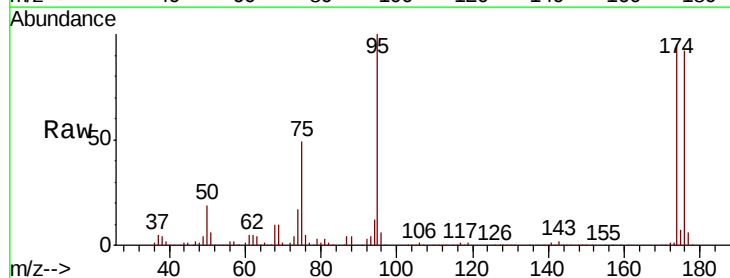
Acq: 23 Oct 2018 07:40

Tgt Ion: 75 Resp: 62500

Ion Ratio Lower Upper

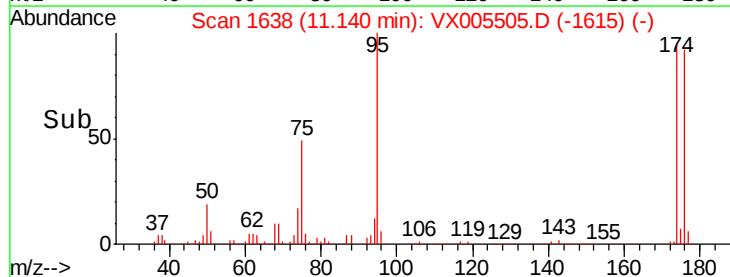
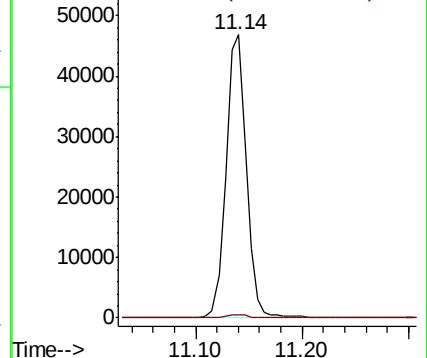
75 100

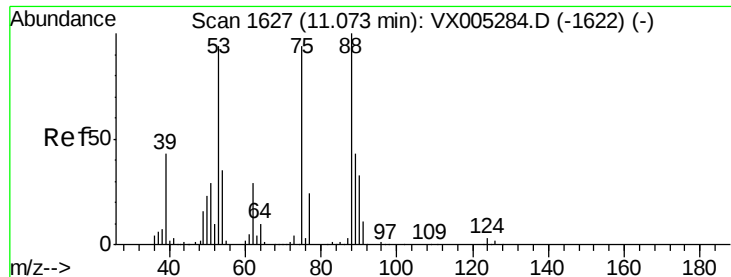
77 1.3 20.2 60.6#



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: 72.334 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005505.D

Acq: 23 Oct 2018 07:40

Instrument :

MSVOA_X

ClientSampleId :

RAV-GT106

Tot Ion: 75 Resp: 62500

Ion Ratio Lower Upper

75 100

53 0.5 80.1 120.1#

89 0.0 37.2 55.8#

