

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX030519\
 Data File : VX007834.D
 Acq On : 05 Mar 2019 13:55
 Operator : JC/SP
 Sample : K1659-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T4B-UV(PRE)

Quant Time: Mar 06 00:08:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 01:53:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	311639	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	481876	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	454205	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	217114	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	174007	45.08	ug/l	0.00
Spiked Amount			Recovery	=	90.16%	
35) Dibromofluoromethane	5.50	113	157627	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
50) Toluene-d8	8.71	98	585601	47.49	ug/l	0.00
Spiked Amount			Recovery	=	94.98%	
62) 4-Bromofluorobenzene	11.13	95	212106	46.86	ug/l	0.00
Spiked Amount			Recovery	=	93.72%	

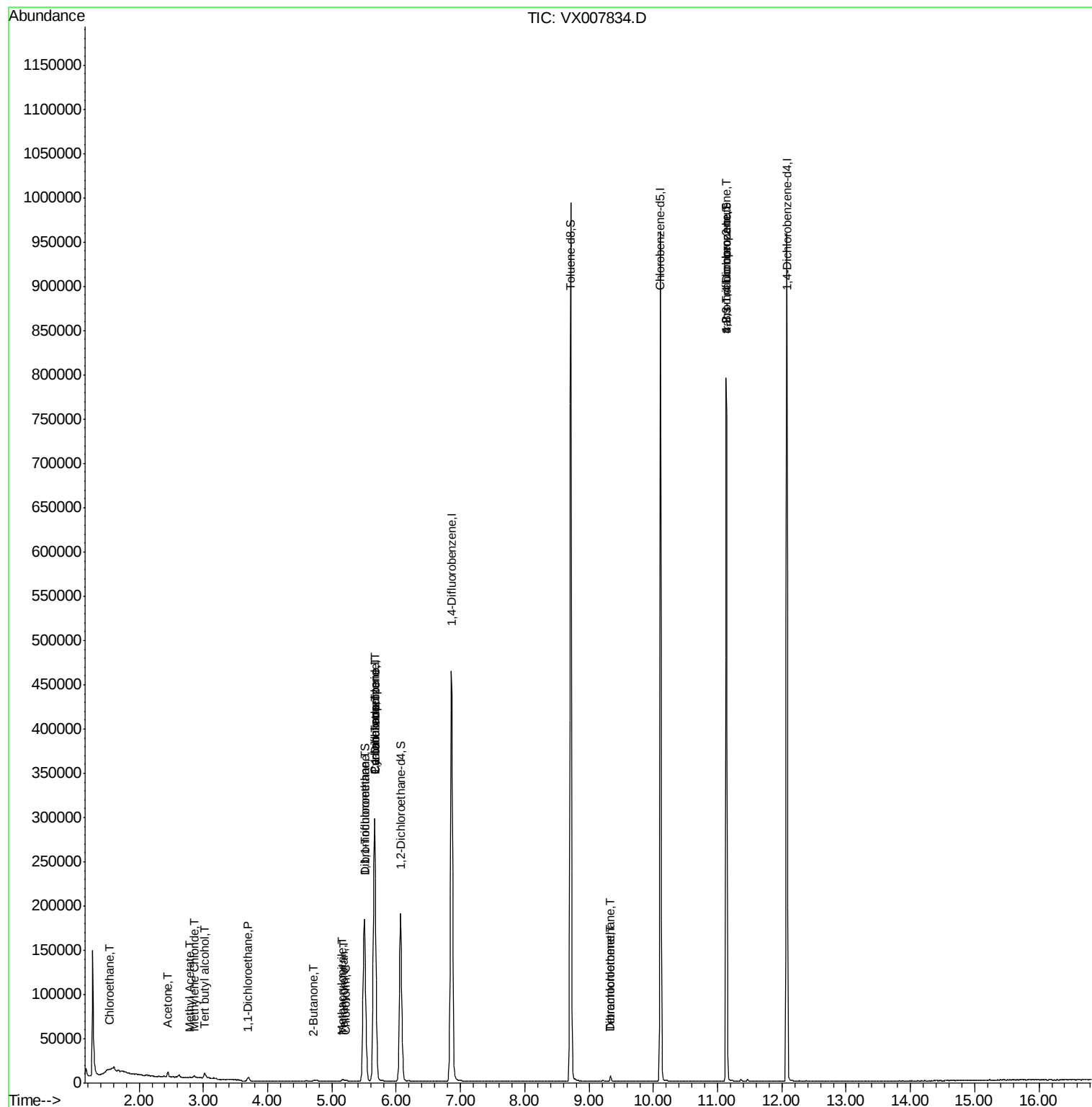
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	323	Below Cal		100
6) Chloroethane	1.54	64	14113	6.768	ug/l #	49
11) Tert butyl alcohol	3.02	59	3760	5.134	ug/l #	74
16) Acetone	2.45	43	5832	3.397	ug/l	94
18) Methyl Acetate	2.78	43	992	0.265	ug/l	100
20) Methylene Chloride	2.86	84	928	0.293	ug/l	87
24) 1,1-Dichloroethane	3.70	63	4855	0.851	ug/l	99
25) 2-Butanone	4.70	43	1397	0.534	ug/l #	80
29) Tetrahydrofuran	5.17	42	1731	1.004	ug/l #	85
30) Chloroform	5.22	83	1494	0.245	ug/l	99
31) Cyclohexane	5.66	56	4820	0.899	ug/l #	1
32) 1,1,1-Trichloroethane	5.50	97	2268	0.449	ug/l #	47
36) 1,1-Dichloropropene	5.66	75	19561	4.515	ug/l #	47
38) Carbon Tetrachloride	5.67	117	26390	6.064	ug/l #	17
41) Methacrylonitrile	5.16	41	1193	0.464	ug/l #	44
60) Dibromochloromethane	9.34	129	872	0.258	ug/l #	12
64) Tetrachloroethene	9.34	164	987	0.268	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	98010	21.178	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	98010	56.345	ug/l #	9

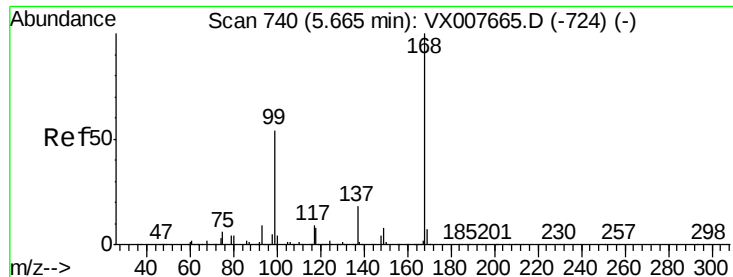
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX007834.D

Acq: 05 Mar 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

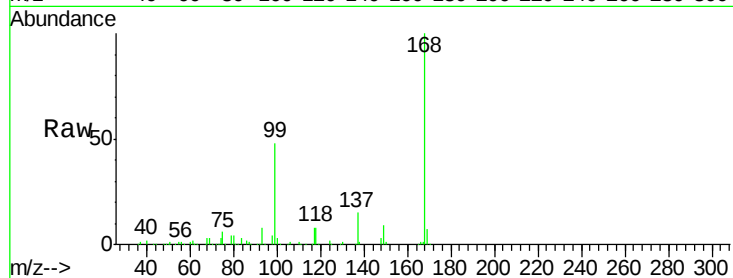
M1-T4B-UV(PRE)

Tot Ion:168 Resp: 311639

Ion Ratio Lower Upper

168 100

99 47.7 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

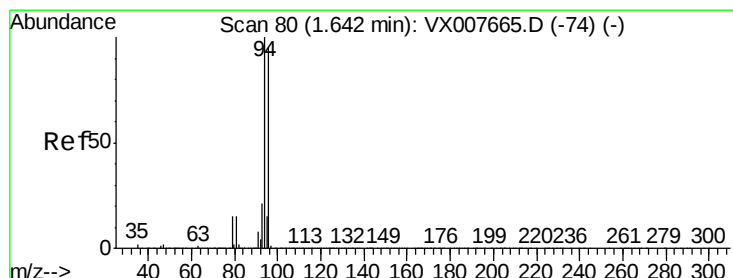
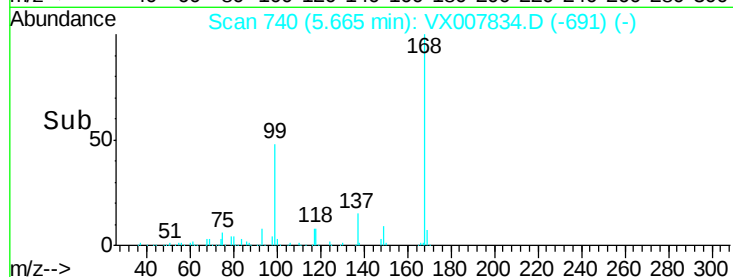
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007834.D

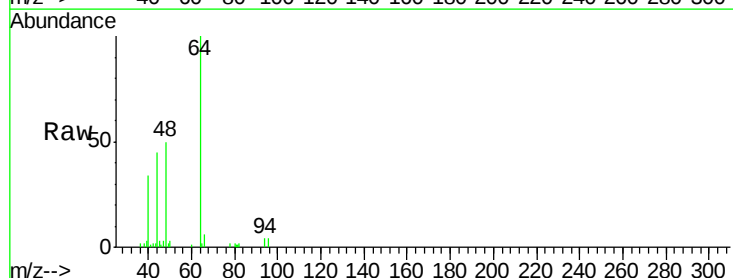
Acq: 05 Mar 2019 13:55

Tgt Ion: 94 Resp: 323

Ion Ratio Lower Upper

94 100

96 92.6 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

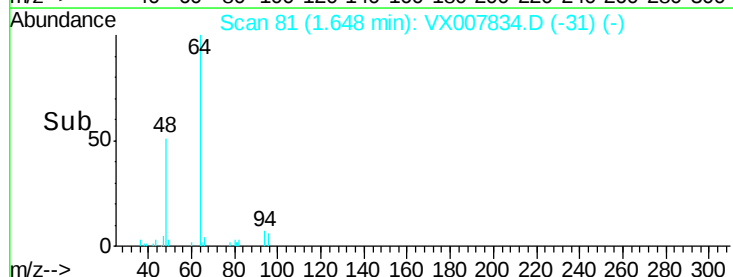
150

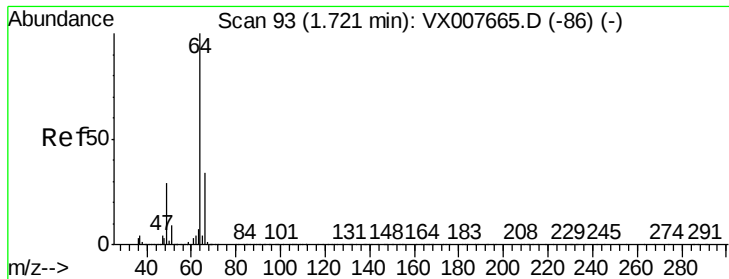
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 6.768 ug/l

RT: 1.54 min Scan# 63

Delta R.T. -0.18 min

Lab File: VX007834.D

Acq: 05 Mar 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

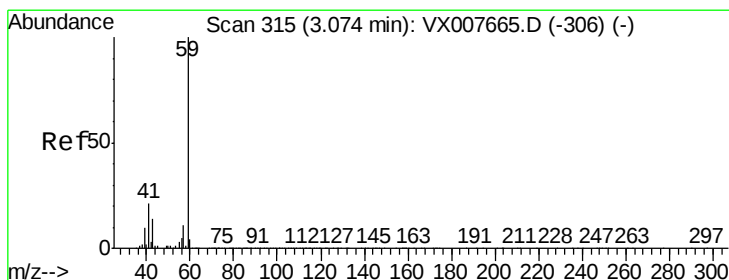
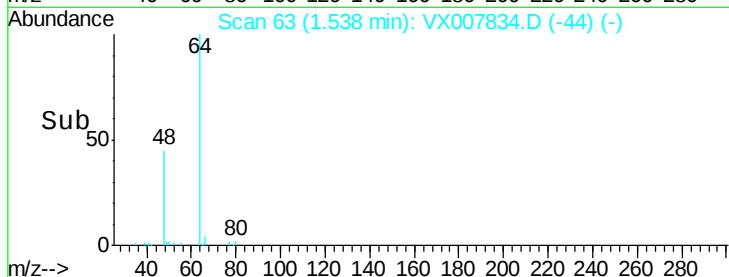
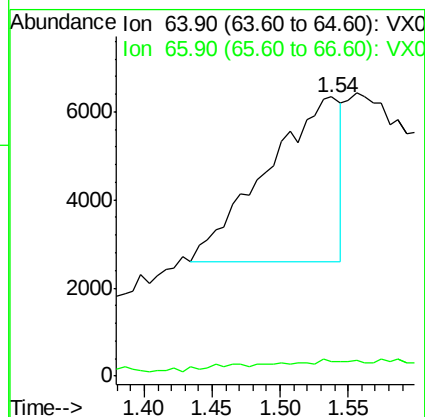
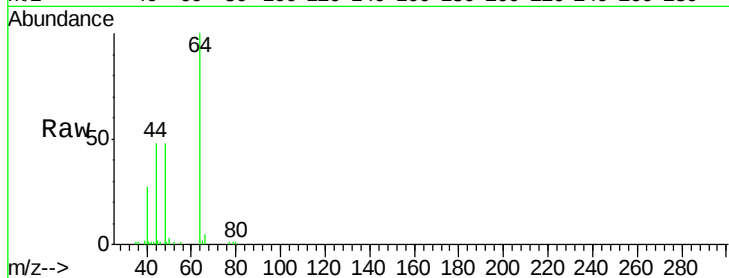
M1-T4B-UV(PRE)

Tot Ion: 64 Resp: 14113

Ion Ratio Lower Upper

64 100

66 3.2 25.5 38.3#



#11

Tert butyl alcohol

Concen: 5.134 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX007834.D

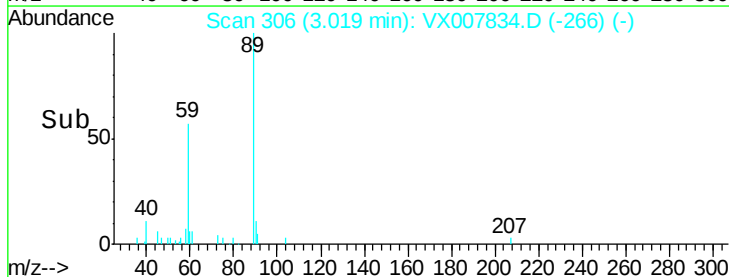
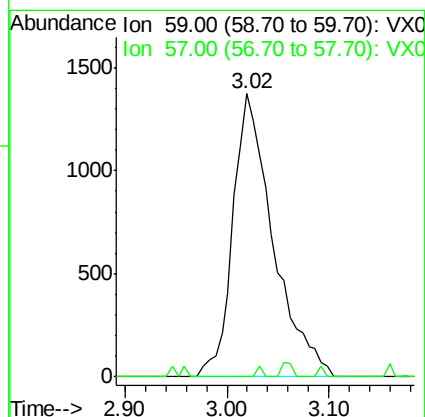
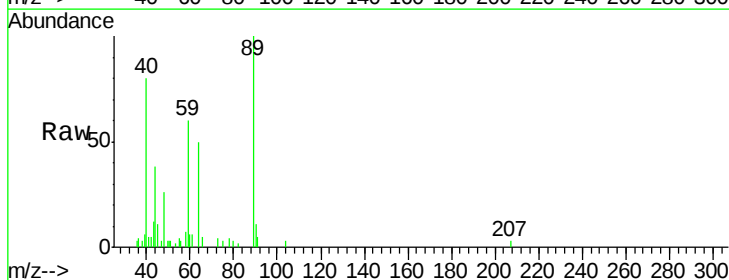
Acq: 05 Mar 2019 13:55

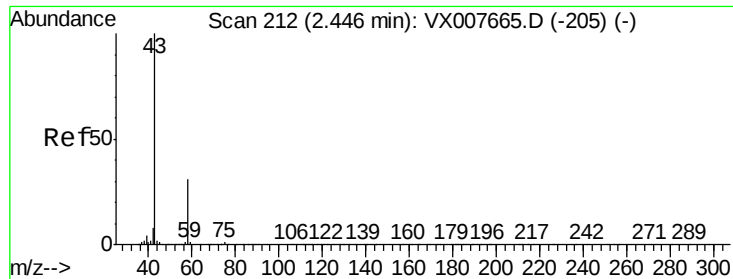
Tgt Ion: 59 Resp: 3760

Ion Ratio Lower Upper

59 100

57 0.5 8.1 12.1#





#16

Acetone

Concen: 3.397 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007834.D

Acq: 05 Mar 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

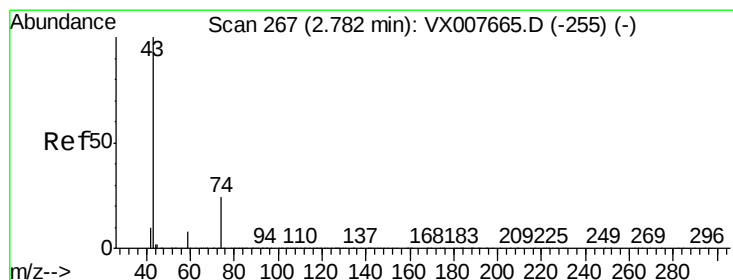
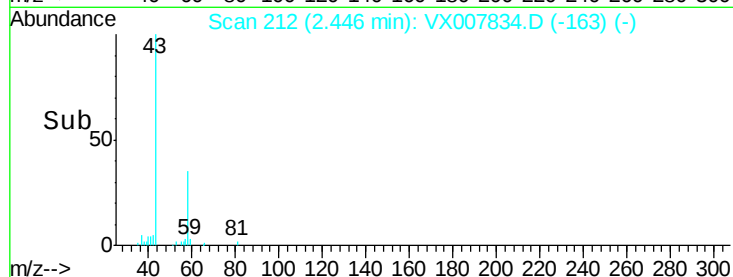
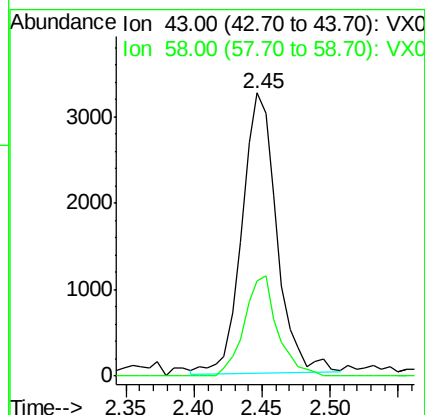
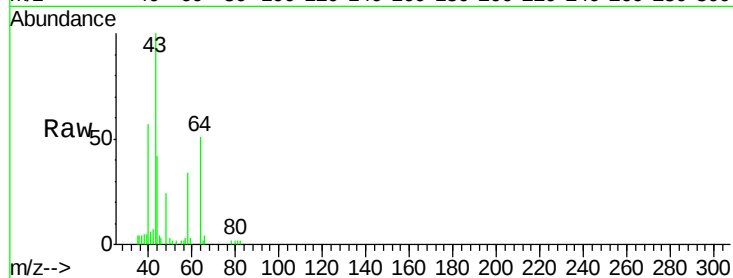
M1-T4B-UV(PRE)

Tot Ion: 43 Resp: 5832

Ion Ratio Lower Upper

43 100

58 34.4 24.9 37.3



#18

Methyl Acetate

Concen: 0.265 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX007834.D

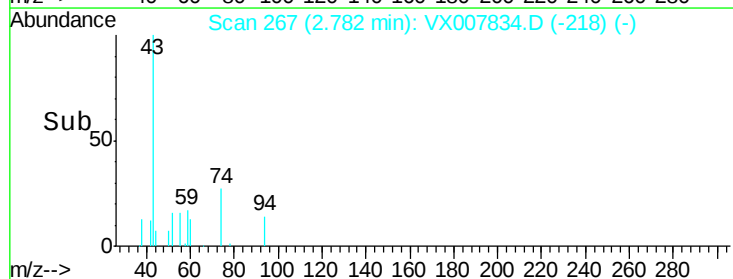
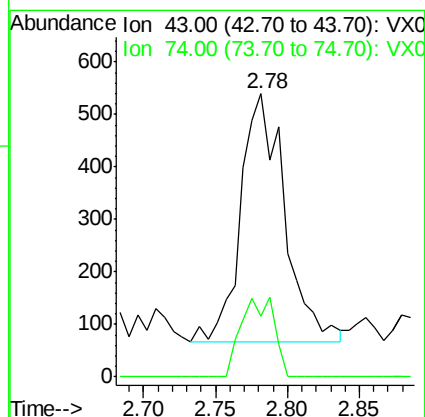
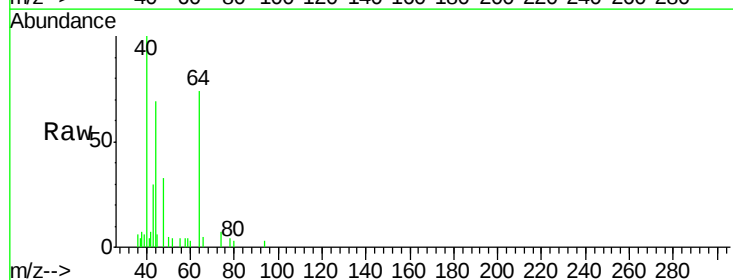
Acq: 05 Mar 2019 13:55

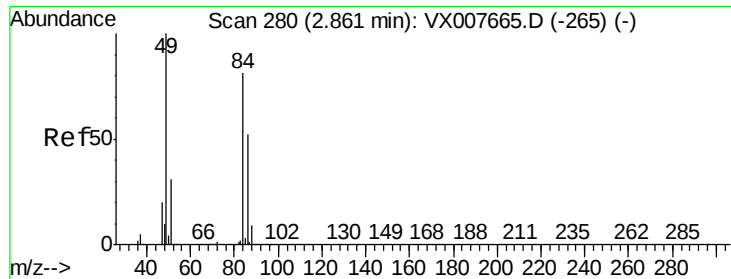
Tgt Ion: 43 Resp: 992

Ion Ratio Lower Upper

43 100

74 24.5 19.4 29.2

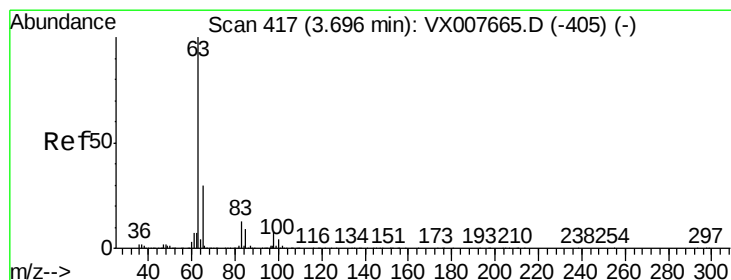
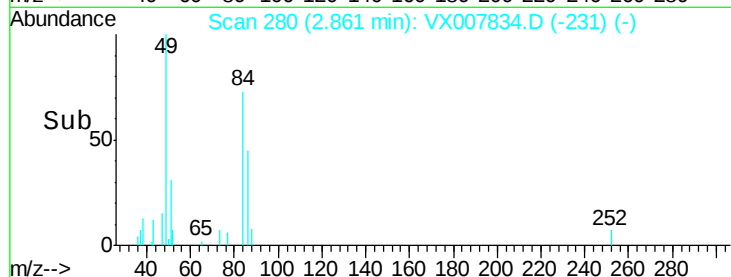
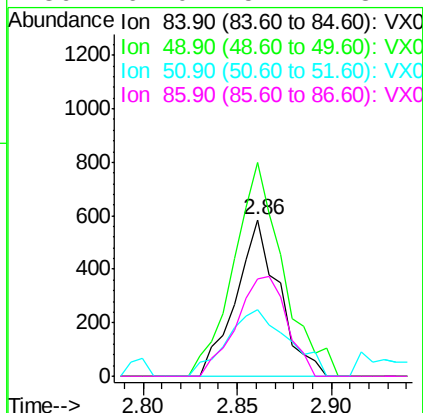
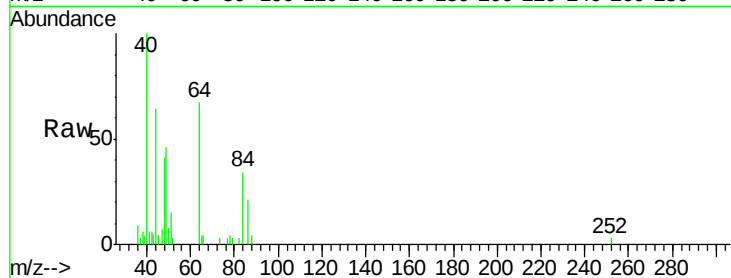




#20
Methvlene Chloride
Concen: 0.293 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX007834.D
Acq: 05 Mar 2019 13:55

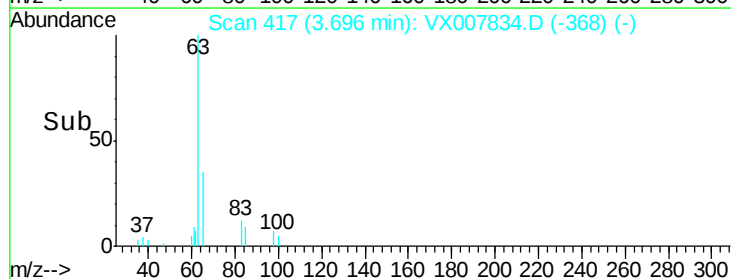
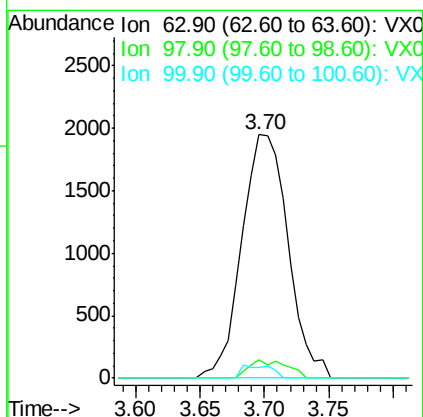
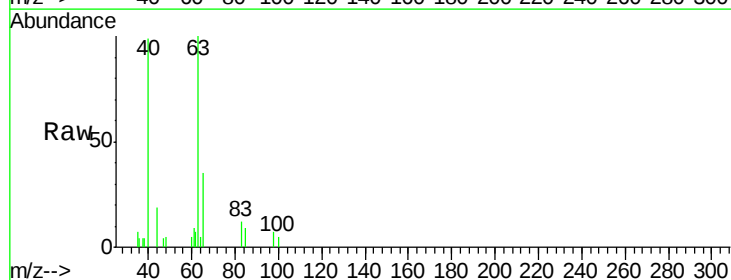
Instrument :
MSVOA_X
ClientSampleId :
M1-T4B-UV(PRE)

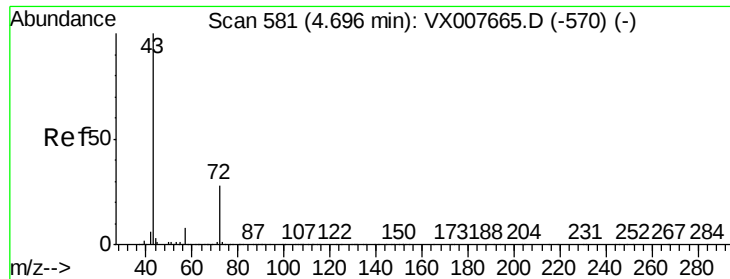
Tot Ion:	84	Resp:	928
Ion	Ratio	Lower	Upper
84	100		
49	136.8	94.8	142.2
51	43.0	29.8	44.8
86	62.0	54.1	81.1



#24
1,1-Dichloroethane
Concen: 0.851 ug/l
RT: 3.70 min Scan# 417
Delta R.T. -0.00 min
Lab File: VX007834.D
Acq: 05 Mar 2019 13:55

Tgt Ion:	63	Resp:	4855
Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	4.5	2.5	7.4





#25

2-Butanone

Concen: 0.534 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX007834.D

Acq: 05 Mar 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

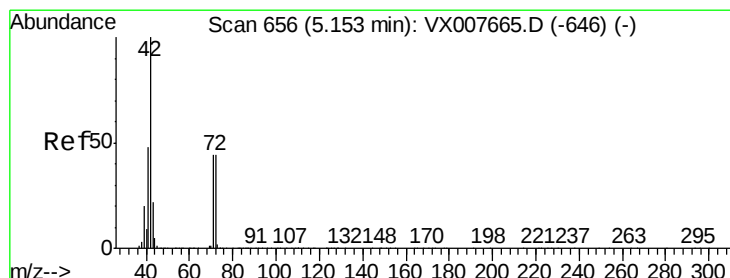
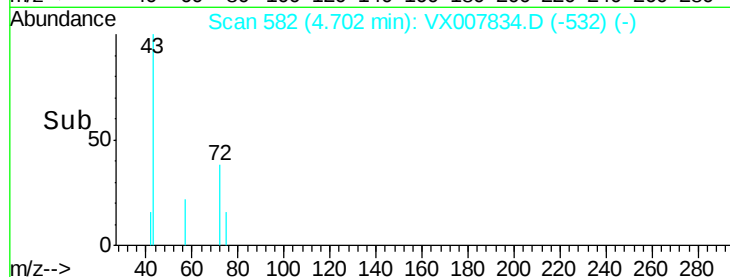
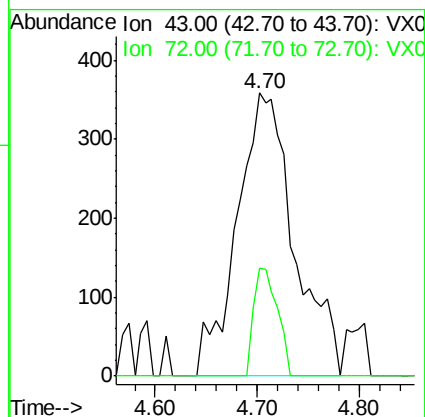
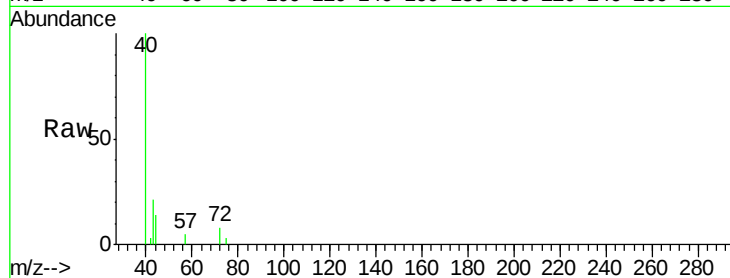
M1-T4B-UV(PRE)

Tot Ion: 43 Resp: 1397

Ion Ratio Lower Upper

43 100

72 38.3 22.2 33.2#



#29

Tetrahydrofuran

Concen: 1.004 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX007834.D

Acq: 05 Mar 2019 13:55

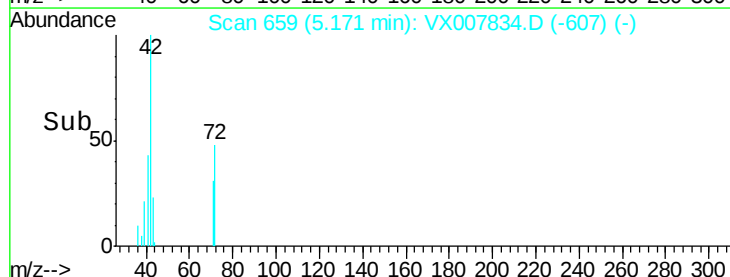
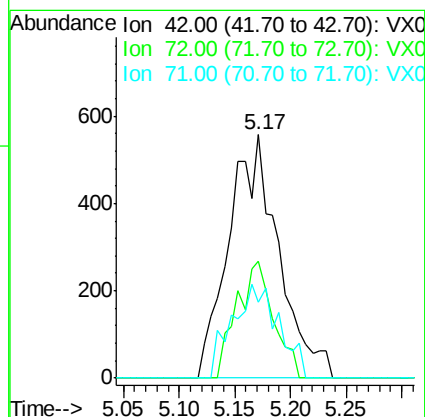
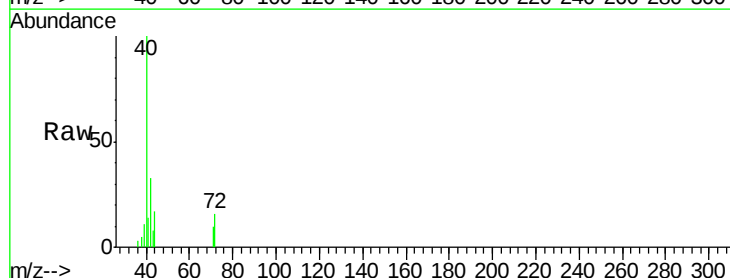
Tgt Ion: 42 Resp: 1731

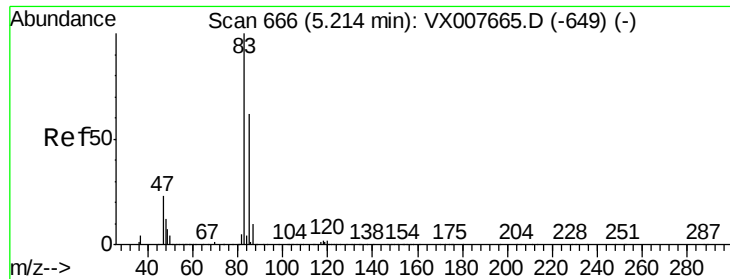
Ion Ratio Lower Upper

42 100

72 35.2 37.6 56.4#

71 35.8 34.6 51.8

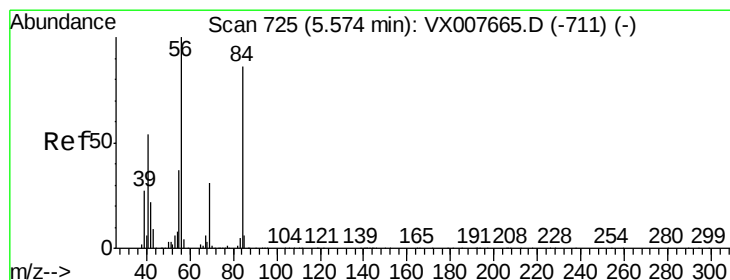
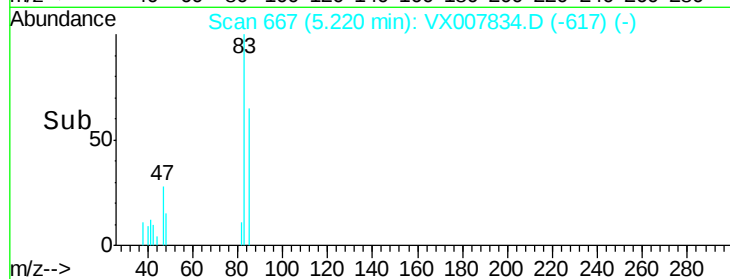
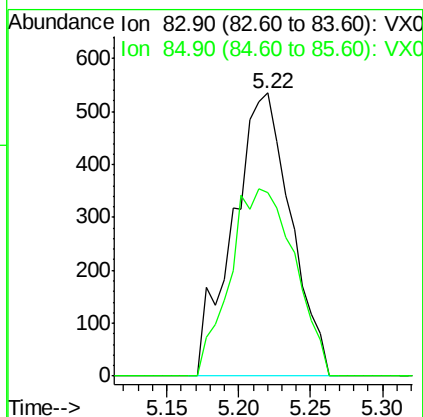
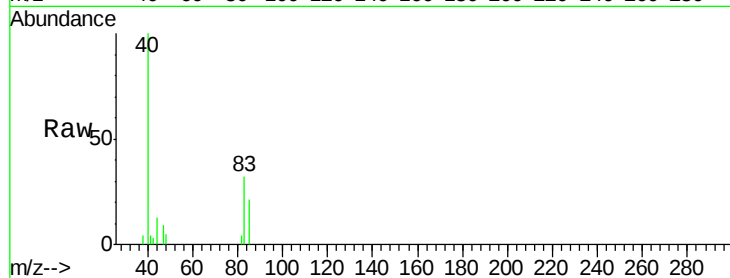




#30
Chloroform
Concen: 0.245 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX007834.D
Acq: 05 Mar 2019 13:55

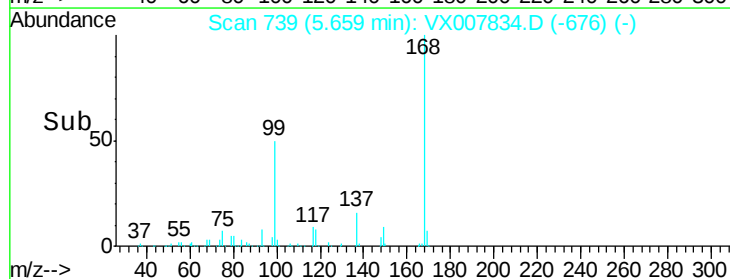
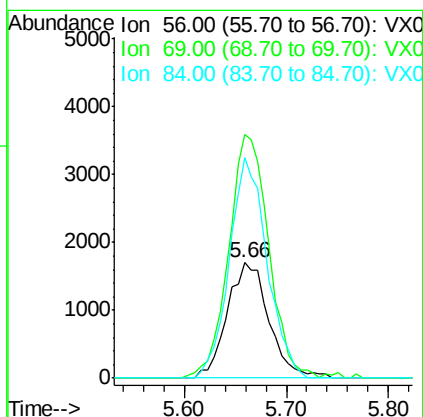
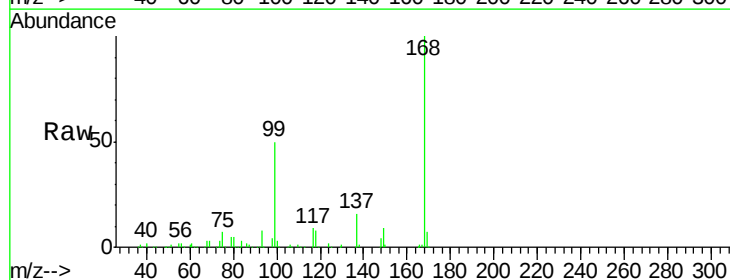
Instrument :
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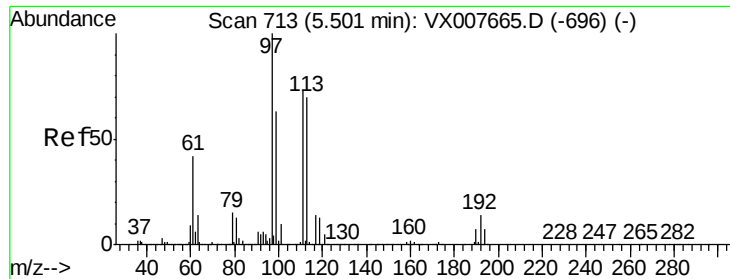
Tot Ion: 83 Resp: 1494
Ion Ratio Lower Upper
83 100
85 65.0 51.6 77.4



#31
Cyclohexane
Concen: 0.899 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX007834.D
Acq: 05 Mar 2019 13:55

Tgt Ion: 56 Resp: 4820
Ion Ratio Lower Upper
56 100
69 207.9 23.0 34.6#
84 191.5 69.8 104.6#





#32

1,1,1-Trichloroethane

Concen: 0.449 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX007834.D

Acq: 05 Mar 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

M1-T4B-UV(PRE)

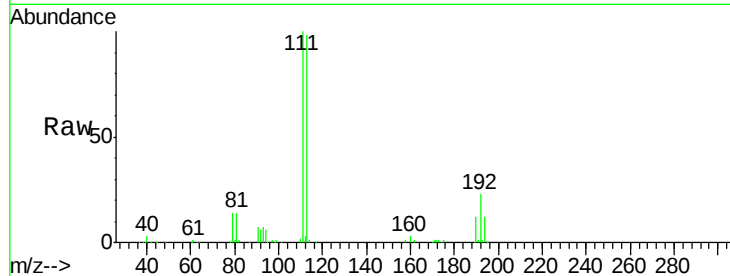
Tot Ion: 97 Resp: 2268

Ion Ratio Lower Upper

97 100

99 0.0 52.2 78.2#

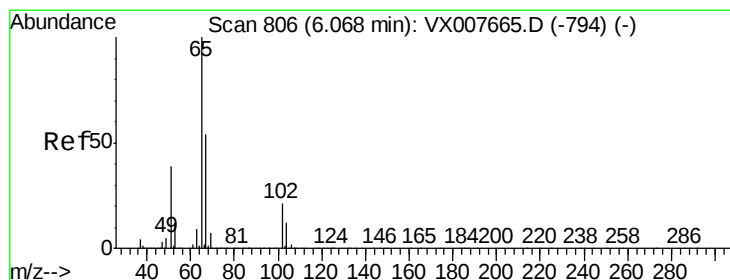
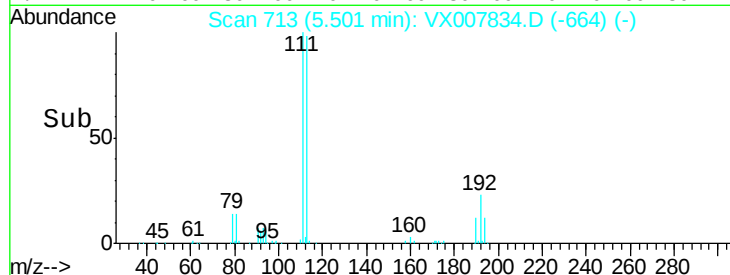
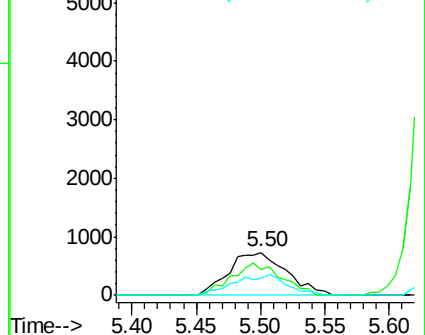
61 44.4 32.7 49.1



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: 45.077 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007834.D

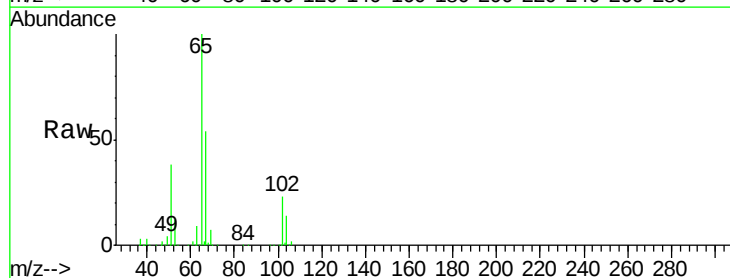
Acq: 05 Mar 2019 13:55

Tgt Ion: 65 Resp: 174007

Ion Ratio Lower Upper

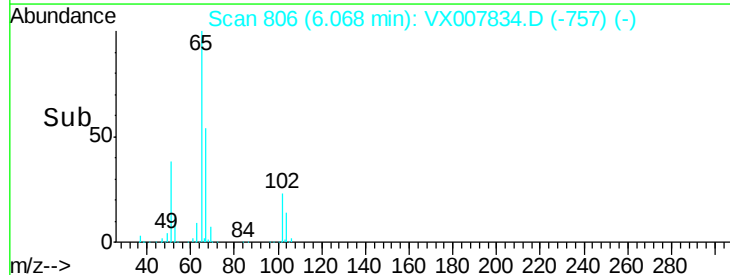
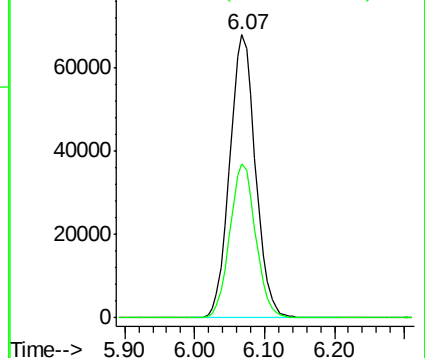
65 100

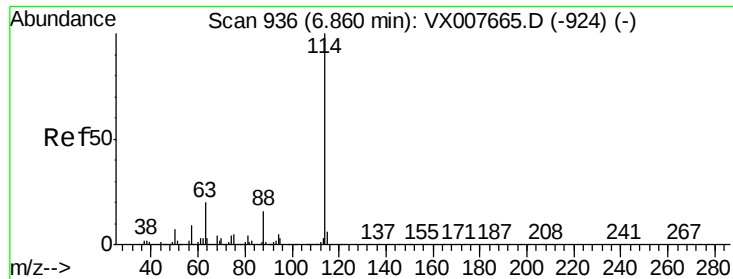
67 54.5 0.0 108.8



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. -0.00 min

Lab File: VX007834.D

Acq: 05 Mar 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

M1-T4B-UV(PRE)

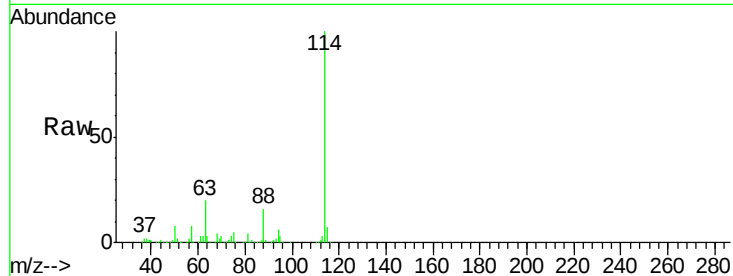
Tot Ion:114 Resp: 481876

Ion Ratio Lower Upper

114 100

63 20.1 0.0 35.6

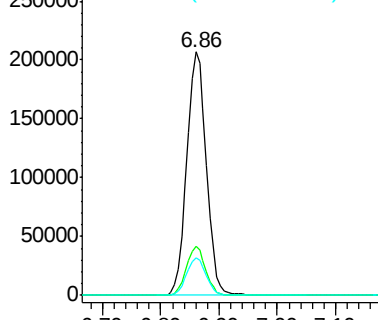
88 15.6 0.0 29.6



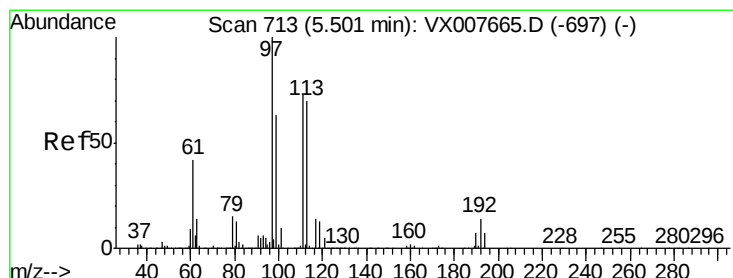
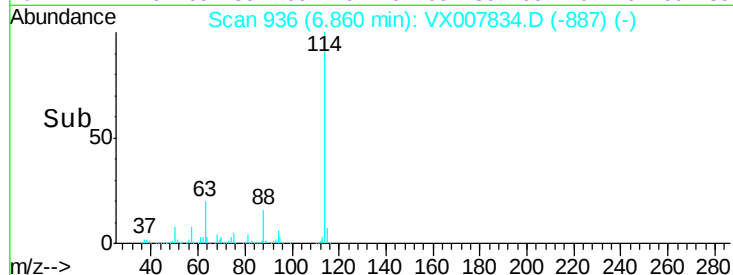
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



Time--> 6.70 6.80 6.90 7.00 7.10



#35

Dibromofluoromethane

Concen: 48.934 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX007834.D

Acq: 05 Mar 2019 13:55

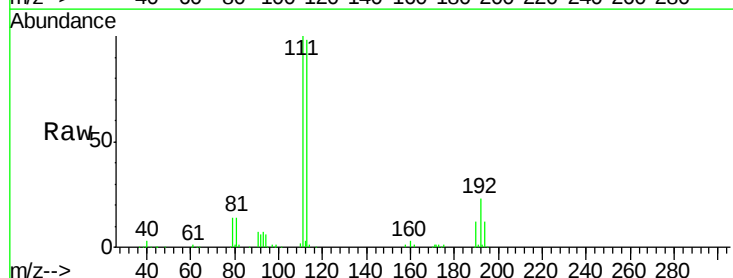
Tgt Ion:113 Resp: 157627

Ion Ratio Lower Upper

113 100

111 102.7 81.8 122.8

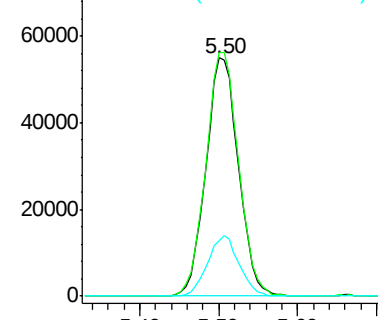
192 24.6 18.5 27.7



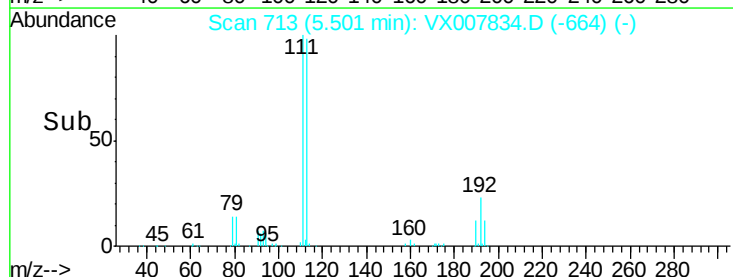
Abundance Ion 112.80 (112.50 to 113.50): V

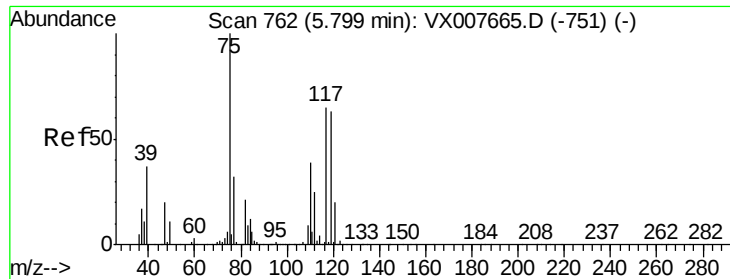
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



Time--> 5.40 5.50 5.60

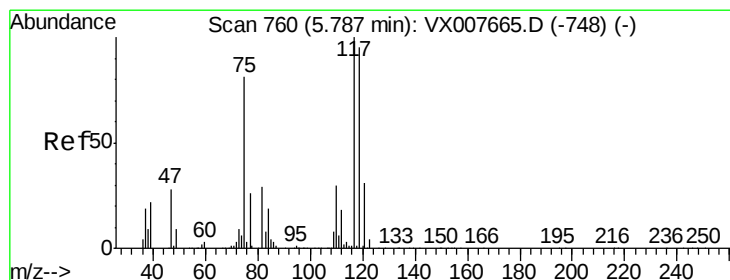
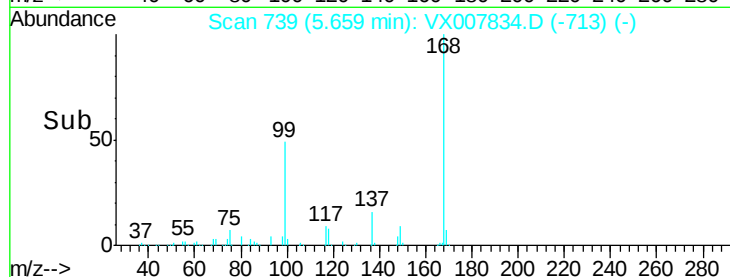
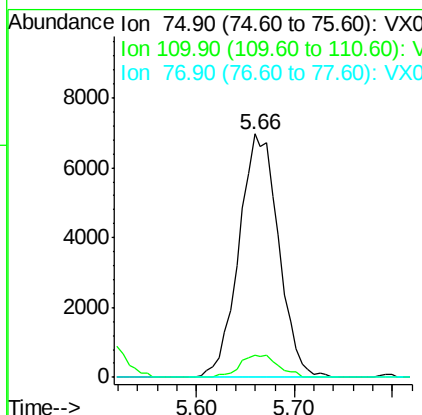
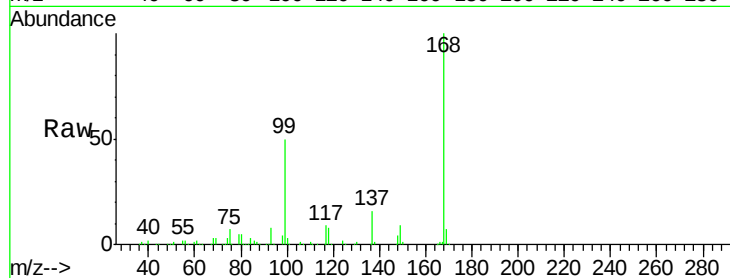




#36
 1,1-Dichloropropene
 Concen: 4.515 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX007834.D
 Acq: 05 Mar 2019 13:55

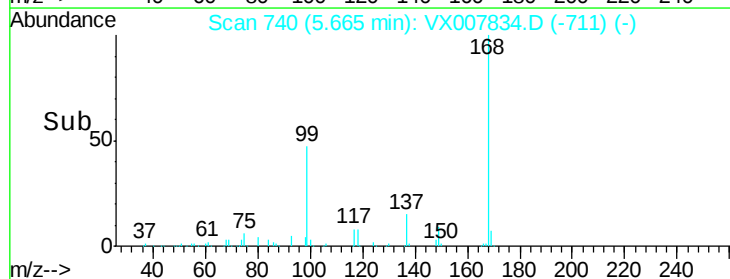
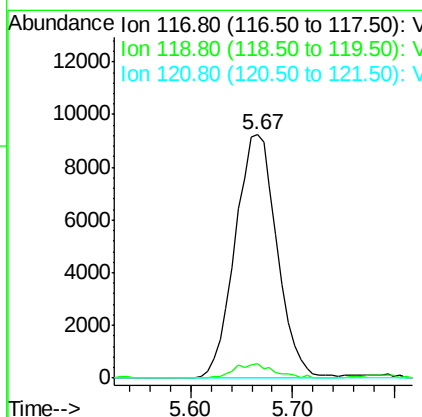
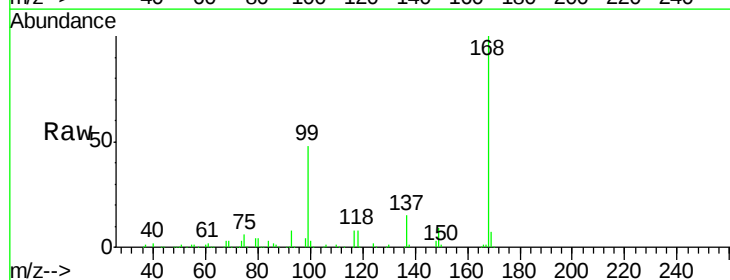
Instrument :
 MSVOA_X
 ClientSampleId :
 M1-T4B-UV(PRE)

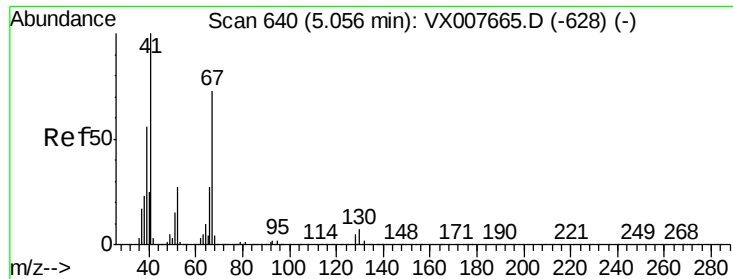
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	20.0	59.9#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.064 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX007834.D
 Acq: 05 Mar 2019 13:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	75.3	112.9#
121	0.0	25.0	37.4#

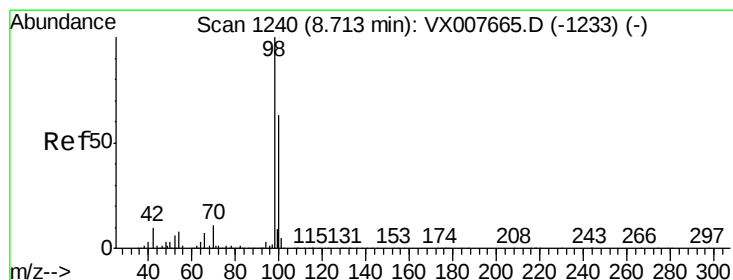
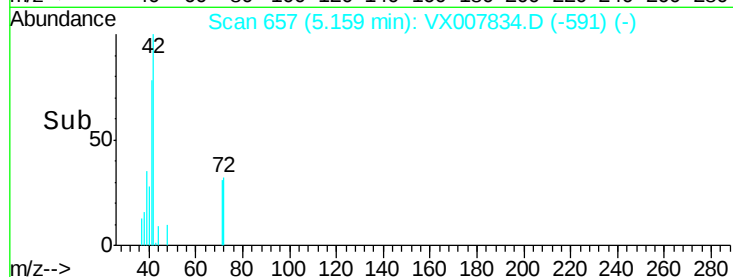
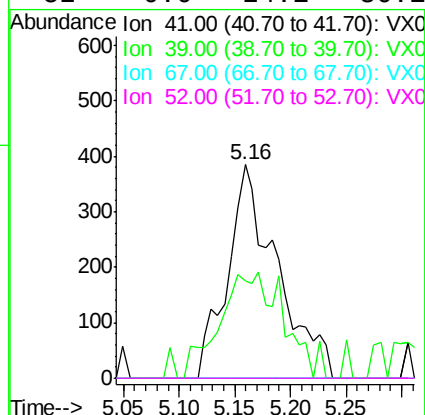
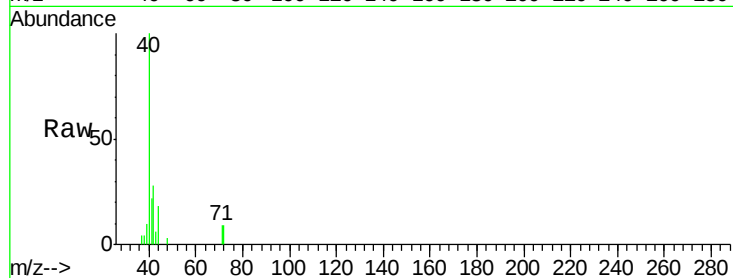




#41
Methacrylonitrile
Concen: 0.464 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.10 min
Lab File: VX007834.D
Acq: 05 Mar 2019 13:55

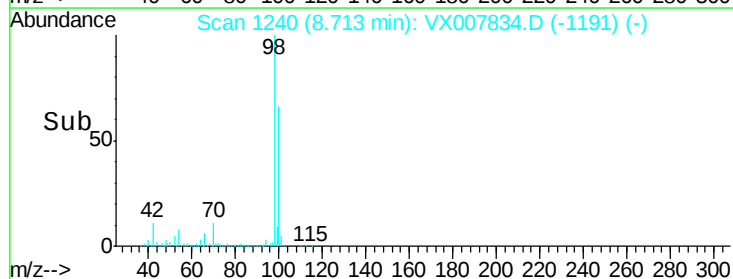
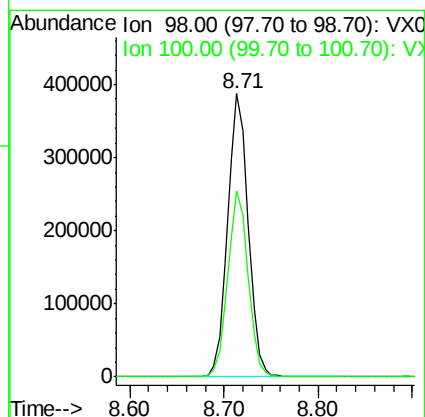
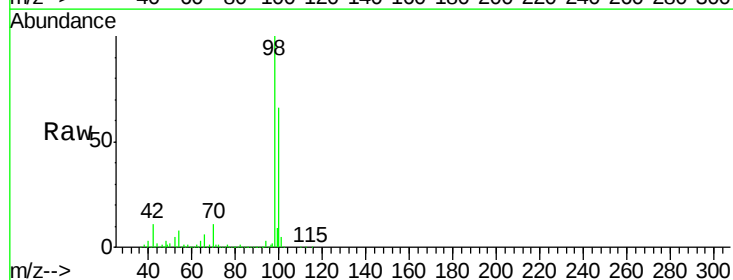
Instrument :
MSVOA_X
ClientSampleId :
M1-T4B-UV(PRE)

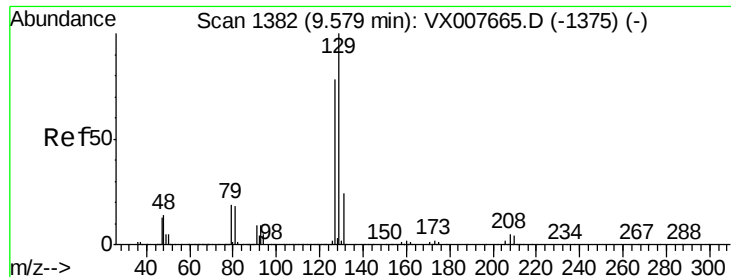
Tot Ion:	41	Resp:	1193
Ion	Ratio	Lower	Upper
41	100		
39	64.2	44.5	66.7
67	0.0	60.4	90.6#
52	0.0	24.1	36.1#



#50
Toluene-d8
Concen: 47.487 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX007834.D
Acq: 05 Mar 2019 13:55

Tgt Ion:	98	Resp:	585601
Ion	Ratio	Lower	Upper
98	100		
100	65.0	51.6	77.4





#60

Dibromochloromethane

Concen: 0.258 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX007834.D

Acq: 05 Mar 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

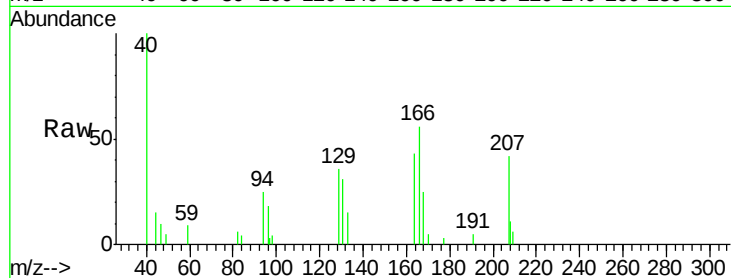
M1-T4B-UV(PRE)

Tot Ion:129 Resp: 872

Ion Ratio Lower Upper

129 100

127 0.0 37.8 113.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

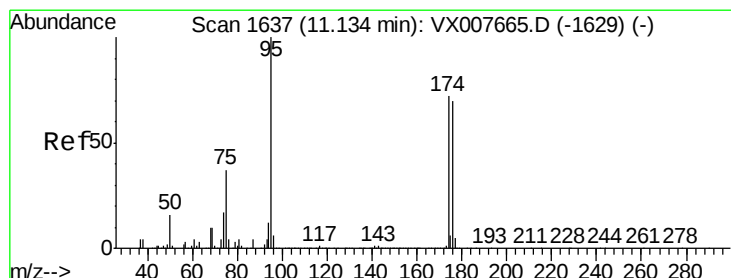
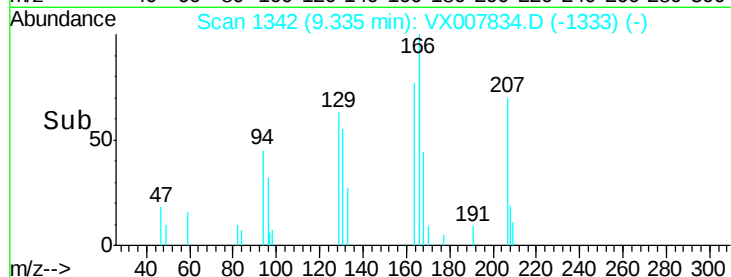
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 46.861 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007834.D

Acq: 05 Mar 2019 13:55

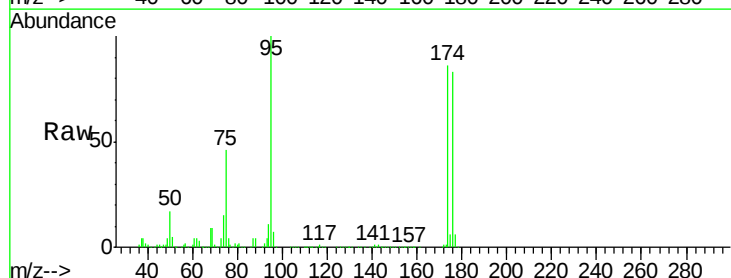
Tgt Ion: 95 Resp: 212106

Ion Ratio Lower Upper

95 100

174 92.2 0.0 189.2

176 90.2 0.0 186.2



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

11.13

200000

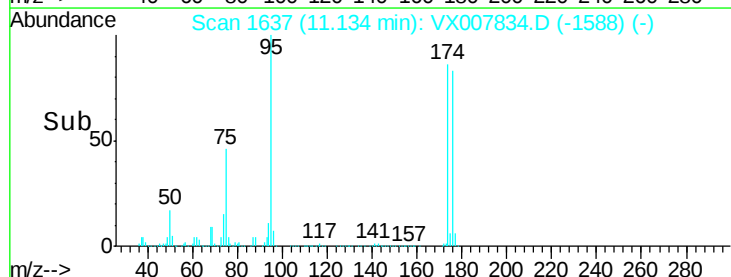
150000

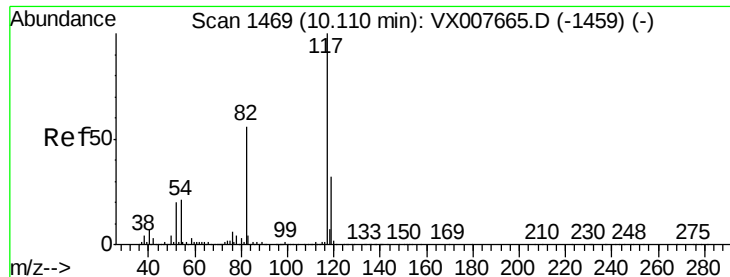
100000

50000

0

Time-->

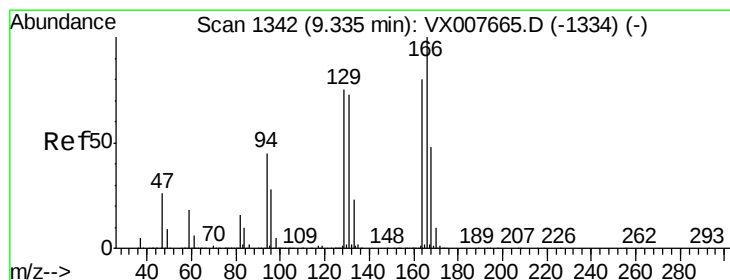
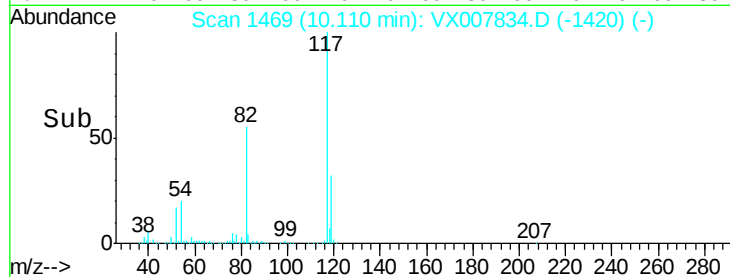
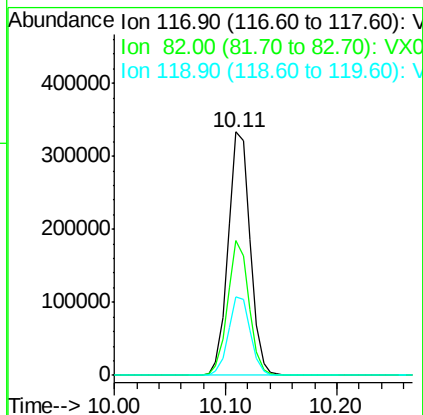
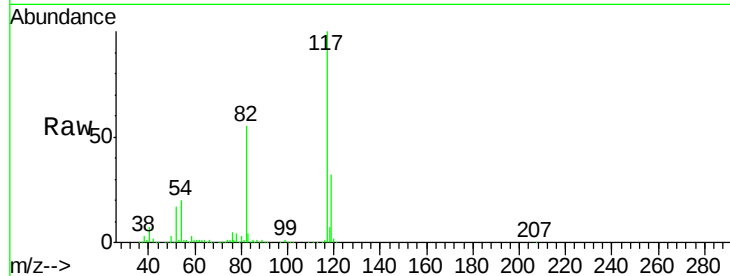




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX007834.D
Acq: 05 Mar 2019 13:55

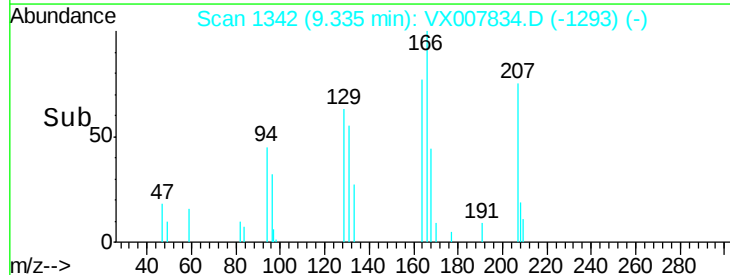
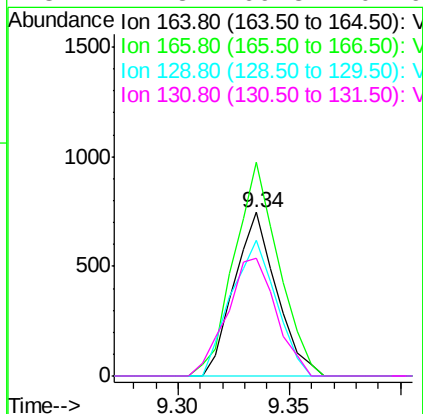
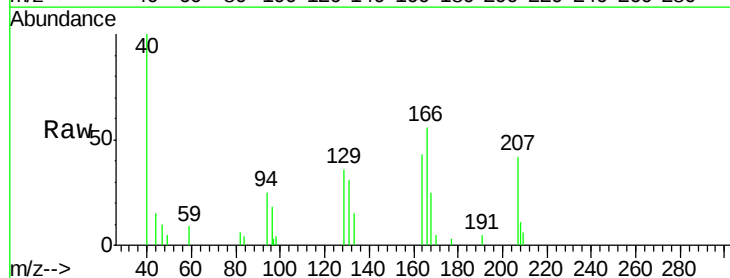
Instrument :
MSVOA_X
ClientSampleId :
M1-T4B-UV(PRE)

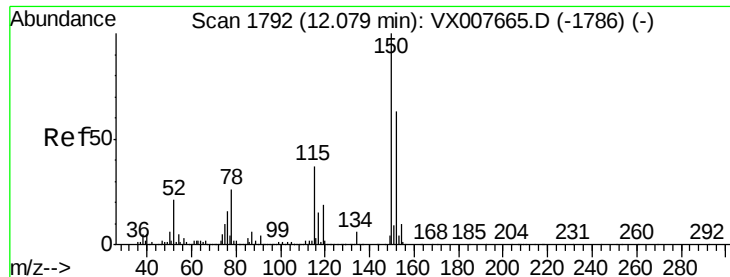
Tot Ion:117 Resp: 454205
Ion Ratio Lower Upper
117 100
82 55.2 42.1 63.1
119 32.1 26.5 39.7



#64
Tetrachloroethene
Concen: 0.268 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX007834.D
Acq: 05 Mar 2019 13:55

Tgt Ion:164 Resp: 987
Ion Ratio Lower Upper
164 100
166 130.6 101.0 151.4
129 82.7 70.5 105.7
131 72.3 69.8 104.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007834.D

Acq: 05 Mar 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

M1-T4B-UV(PRE)

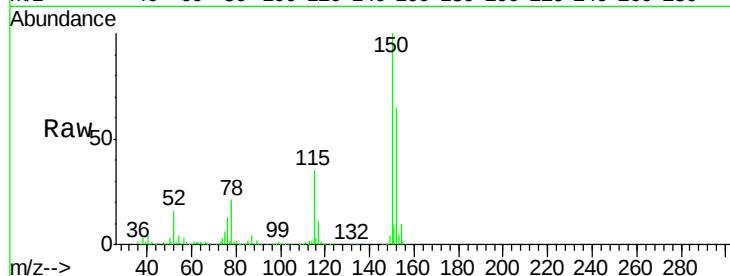
Tot Ion:152 Resp: 217114

Ion Ratio Lower Upper

152 100

115 55.3 38.0 114.0

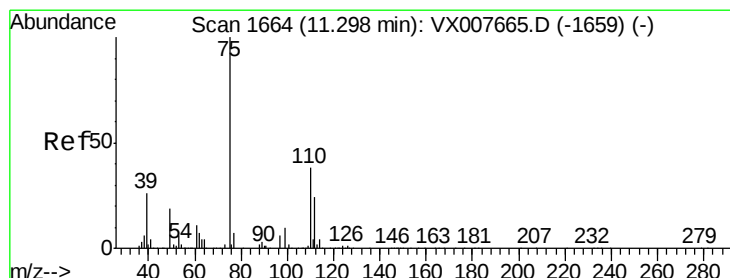
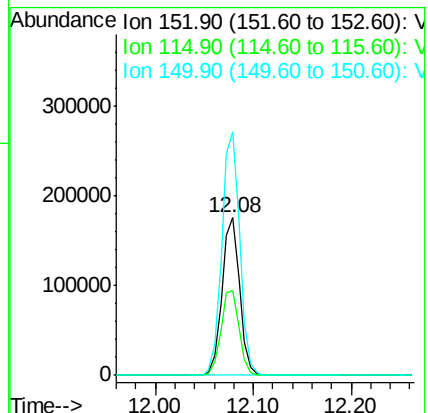
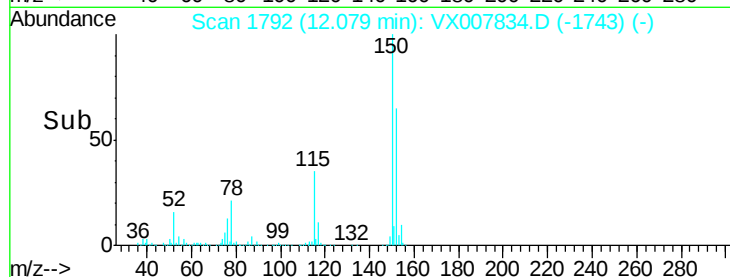
150 157.3 0.0 346.4



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: 21.178 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007834.D

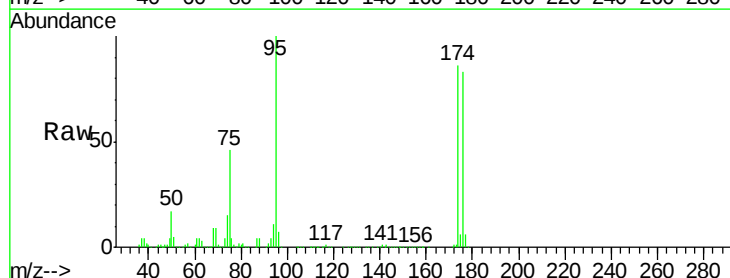
Acq: 05 Mar 2019 13:55

Tgt Ion: 75 Resp: 98010

Ion Ratio Lower Upper

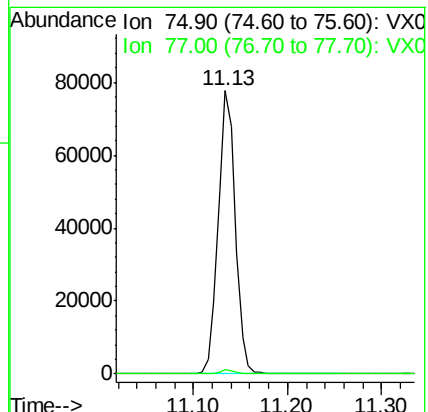
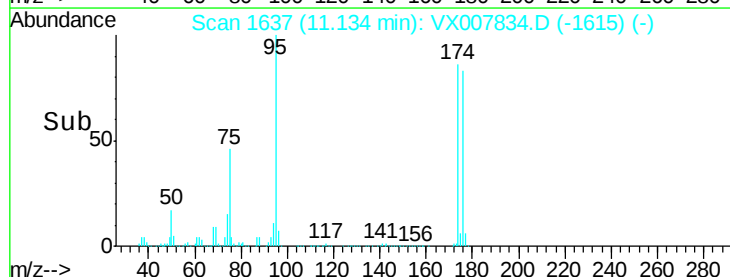
75 100

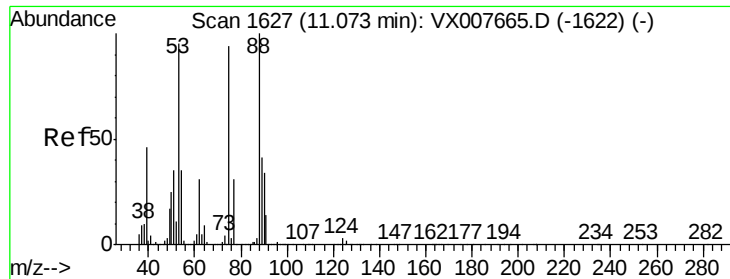
77 1.3 23.0 69.0#



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: 56.345 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007834.D

Acq: 05 Mar 2019 13:55

Instrument :

MSVOA_X

ClientSampleId :

M1-T4B-UV(PRE)

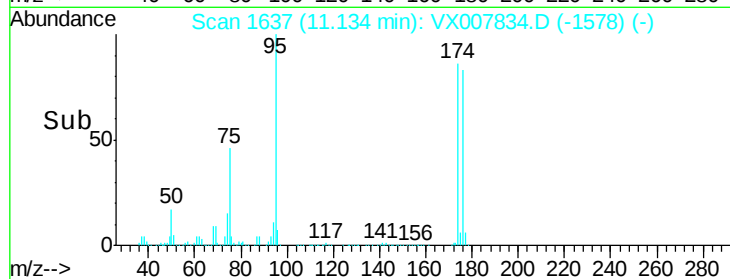
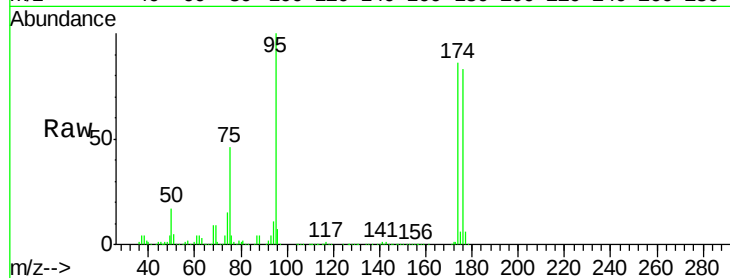
Tot Ion: 75 Resp: 98010

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.0 41.4 62.0#



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

