

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX053118\
 Data File : VX002205.D
 Acq On : 01 Jun 2018 08:15
 Operator : JC/MD
 Sample : J3119-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 01 09:06:11 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	257175	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	367447	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	332249	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	185379	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	218813	47.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.20%	
35) Dibromofluoromethane	5.51	113	160102	43.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.14%	
50) Toluene-d8	8.72	98	640129	48.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.24%	
62) 4-Bromofluorobenzene	11.14	95	226073	43.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.88%	

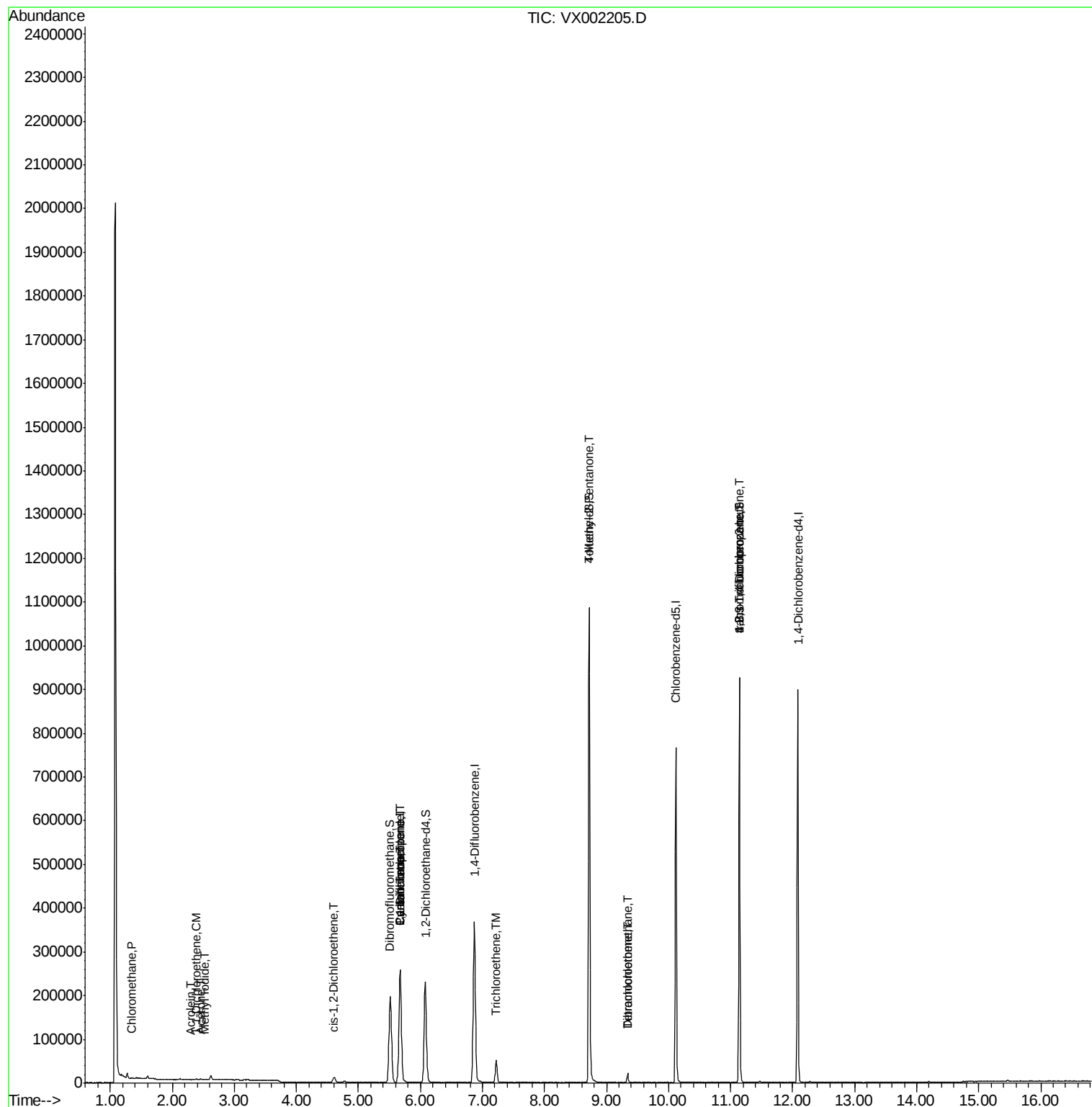
Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.20	85	173	Below Cal	#	67
3) Chloromethane	1.34	50	901	0.23	ug/l	89
5) Bromomethane	1.62	94	107	Below Cal	#	2
10) Methyl Iodide	2.53	142	1154	0.27	ug/l	# 86
12) 1,1-Dichloroethene	2.39	96	642	0.21	ug/l	# 87
13) Acrolein	2.29	56	261	0.67	ug/l	# 45
16) Acetone	2.45	43	1235	0.70	ug/l	# 84
18) Methyl Acetate	2.80	43	162	Below Cal	#	54
20) Methylene Chloride	2.87	84	456	Below Cal		97
21) trans-1,2-Dichloroethene	3.17	96	411	Below Cal	#	73
27) cis-1,2-Dichloroethene	4.60	96	5585	1.43	ug/l	39
28) Bromochloromethane	5.03	49	98	Below Cal	#	14
31) Cyclohexane	5.67	56	5924	0.94	ug/l	# 21
36) 1,1-Dichloropropene	5.68	75	18446	3.61	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	23881	4.01	ug/l	# 14
41) Methacrylonitrile	5.11	41	201	Below Cal	#	29
44) Trichloroethene	7.22	130	18984	4.35	ug/l	96
51) 4-Methyl-2-Pentanone	8.72	43	3386	0.51	ug/l	# 1
60) Dibromochloromethane	9.34	129	3733	0.79	ug/l	# 11
64) Tetrachloroethene	9.34	164	4100	0.86	ug/l	96
74) N-amyl acetate	6.46	43	99	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.21	83	21	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	121317	27.25	ug/l	# 32
79) 2-Chlorotoluene	11.43	91	206	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	11.14	75	121317	65.48	ug/l	# 10

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

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QLast Update : Thu May 24 13:09:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002205.D

Acq: 01 Jun 2018 08:15

Instrument :

MSVOA_X

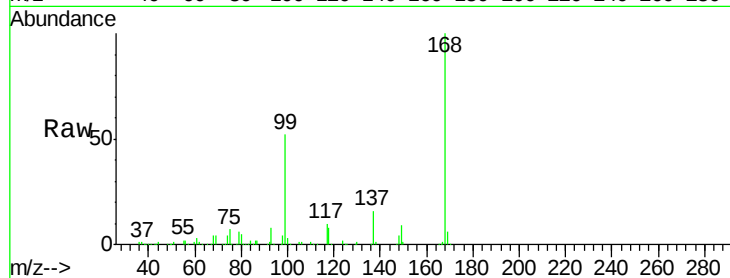
ClientSampleId :

Tot Ion:168 Resp: 257175

Ion Ratio Lower Upper

168 100

99 51.5 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

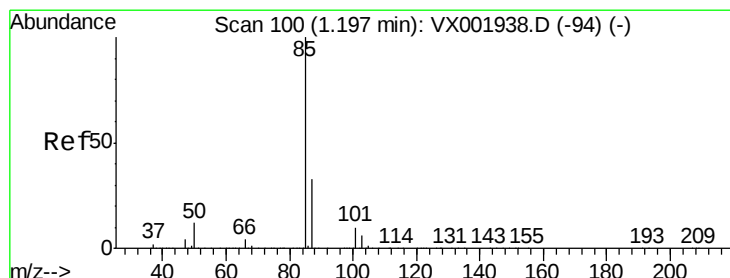
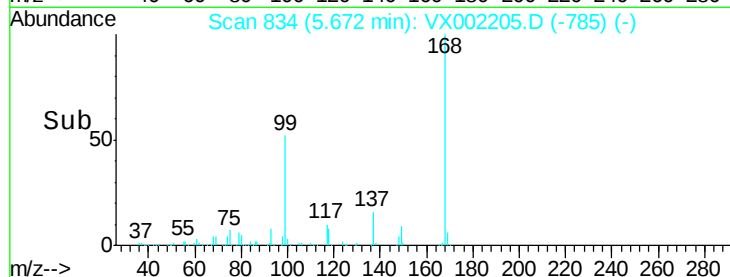
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002205.D

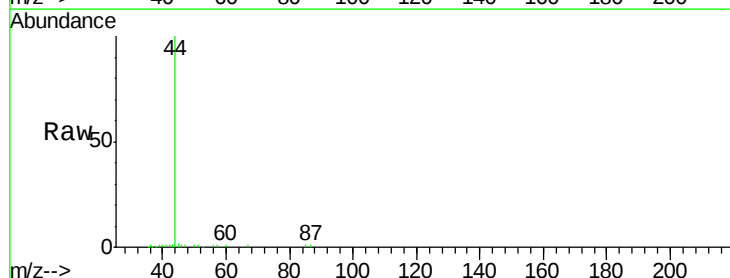
Acq: 01 Jun 2018 08:15

Tgt Ion: 85 Resp: 173

Ion Ratio Lower Upper

85 100

87 51.9 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

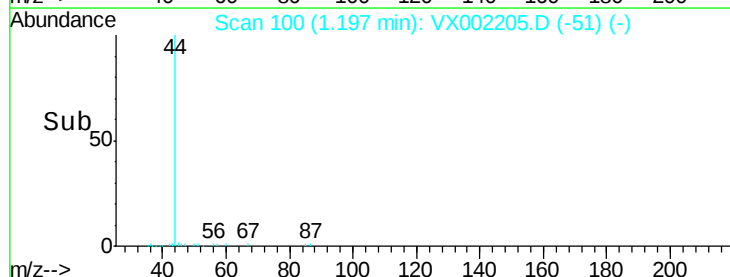
150

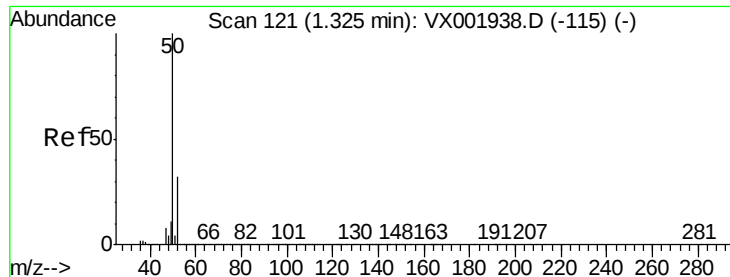
100

50

0

Time-->





#3

Chloromethane

Concen: 0.23 ug/l

RT: 1.34 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX002205.D

Acq: 01 Jun 2018 08:15

Instrument :

MSVOA_X

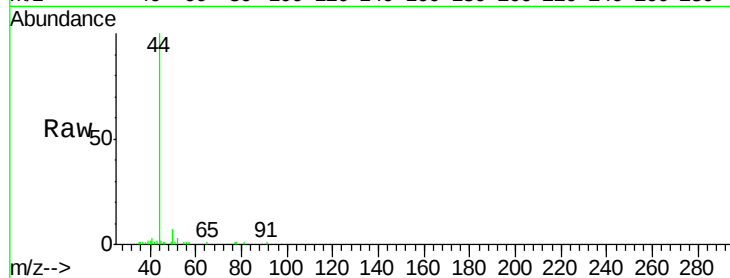
ClientSampleId :

Tot Ion: 50 Resp: 901

Ion Ratio Lower Upper

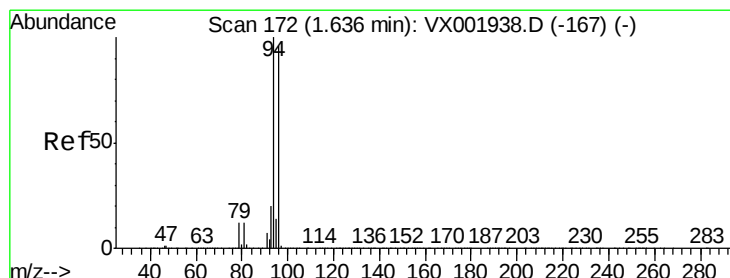
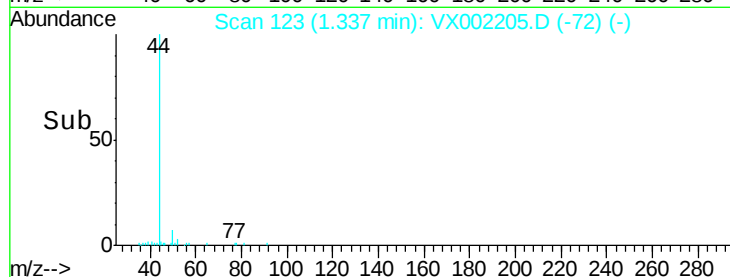
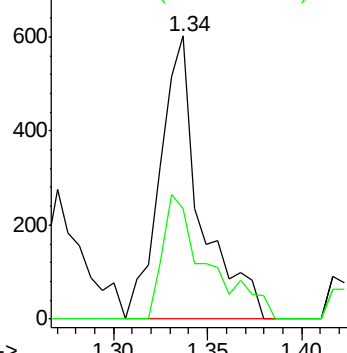
50 100

52 38.9 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 170

Delta R.T. -0.01 min

Lab File: VX002205.D

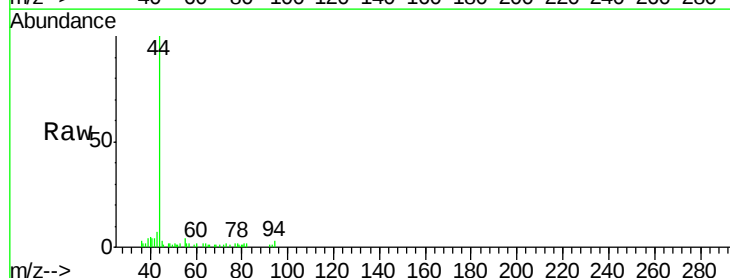
Acq: 01 Jun 2018 08:15

Tgt Ion: 94 Resp: 107

Ion Ratio Lower Upper

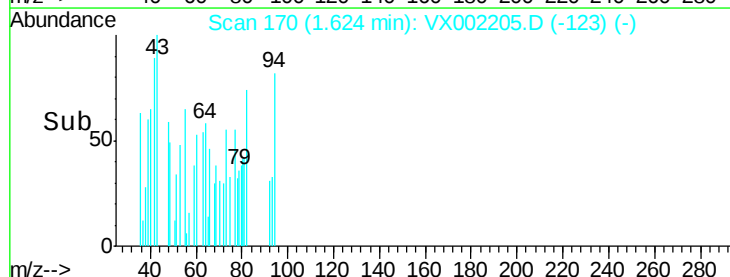
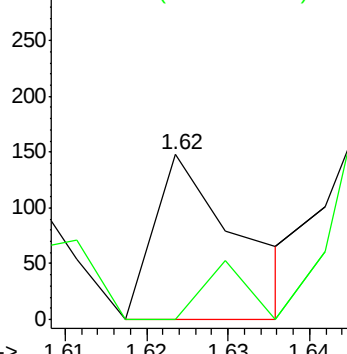
94 100

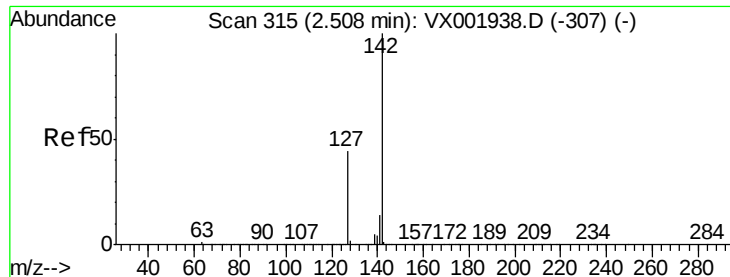
96 0.0 75.9 113.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

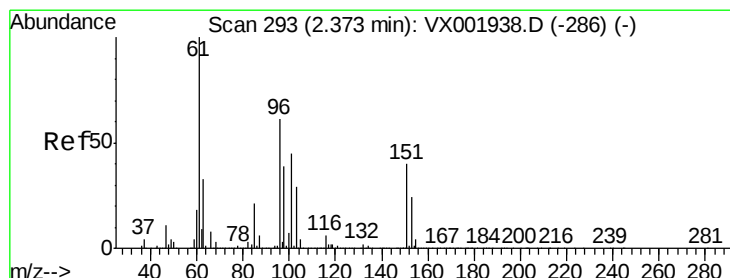
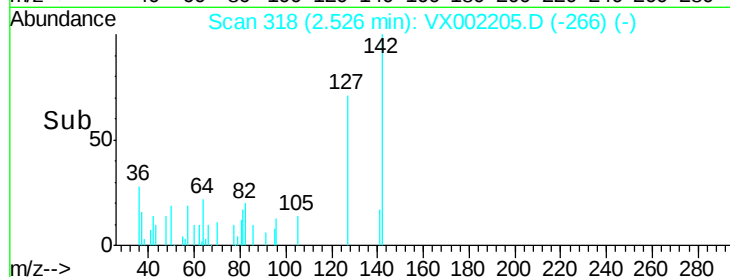
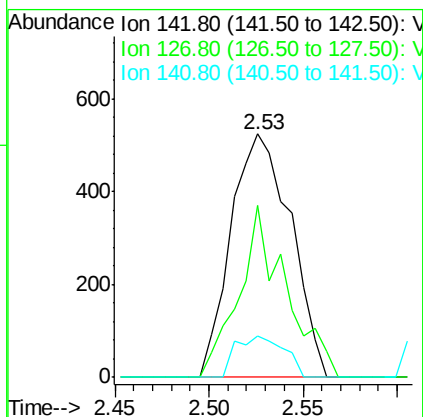
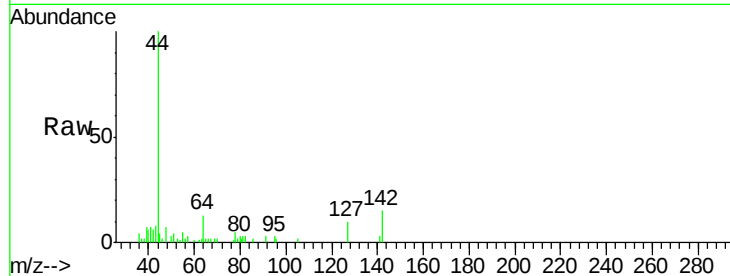




#10
Methvl Iodide
Concen: 0.27 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.02 min
Lab File: VX002205.D
Acq: 01 Jun 2018 08:15

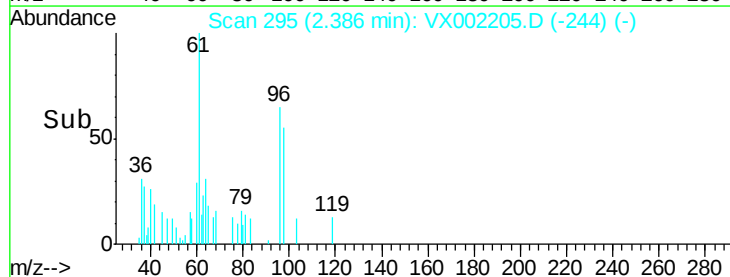
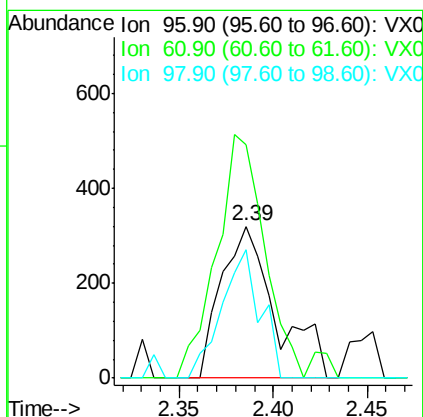
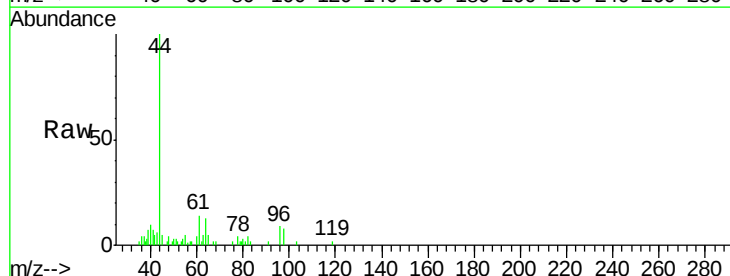
Instrument :
MSVOA_X
ClientSampleId :

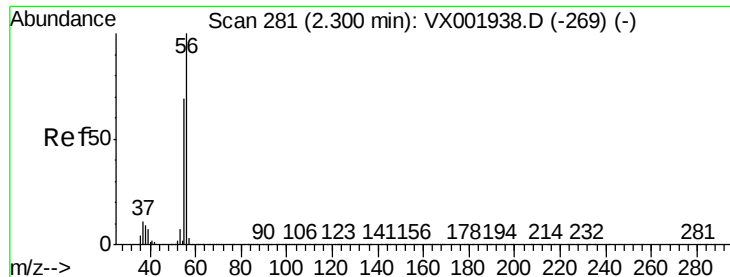
Tot Ion:142 Resp: 1154
Ion Ratio Lower Upper
142 100
127 55.8 35.5 53.3#
141 13.7 11.3 16.9



#12
1,1-Dichloroethene
Concen: 0.21 ug/l
RT: 2.39 min Scan# 295
Delta R.T. 0.01 min
Lab File: VX002205.D
Acq: 01 Jun 2018 08:15

Tgt Ion: 96 Resp: 642
Ion Ratio Lower Upper
96 100
61 153.4 131.7 197.5
98 85.0 51.6 77.4#





#13

Acrolein

Concen: 0.67 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX002205.D

Acq: 01 Jun 2018 08:15

Instrument :

MSVOA_X

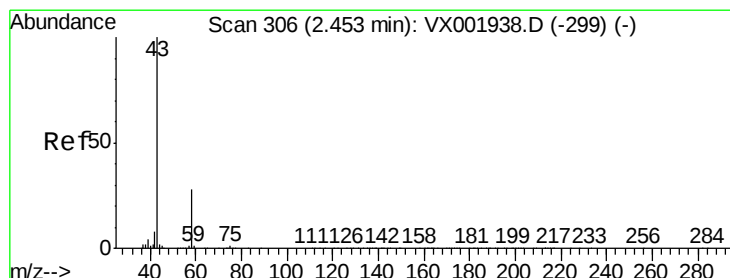
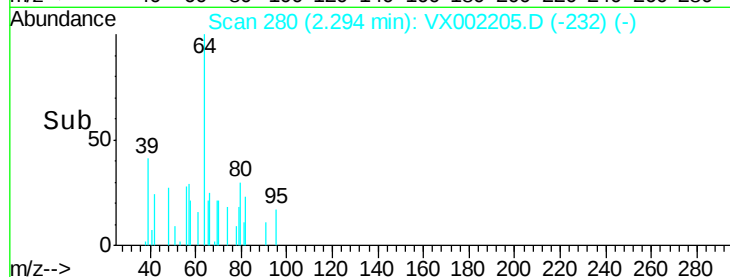
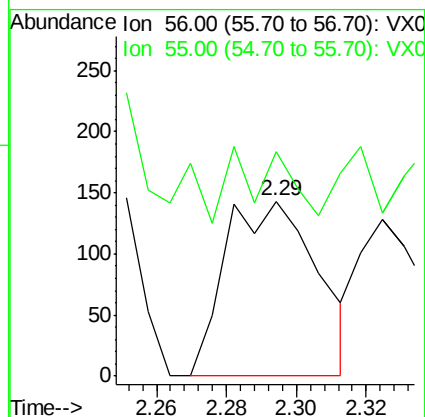
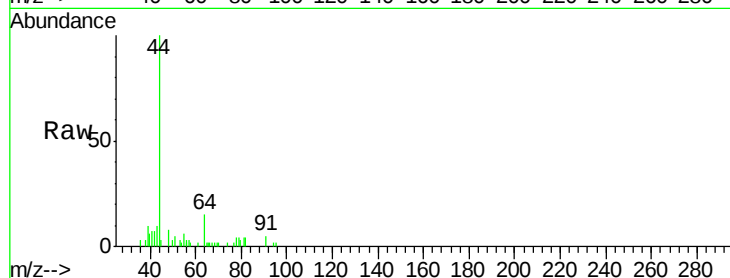
ClientSampleId :

Tot Ion: 56 Resp: 261

Ion Ratio Lower Upper

56 100

55 25.3 56.8 85.2#



#16

Acetone

Concen: 0.70 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX002205.D

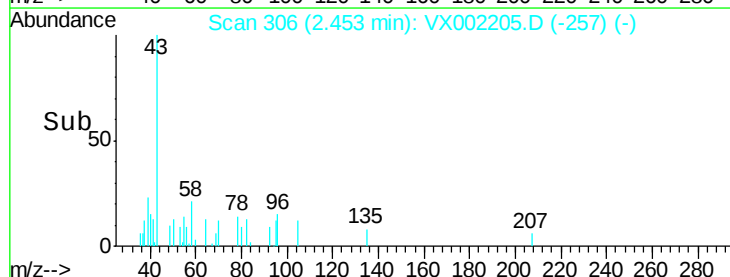
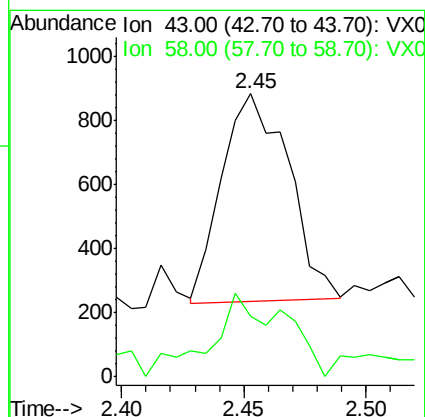
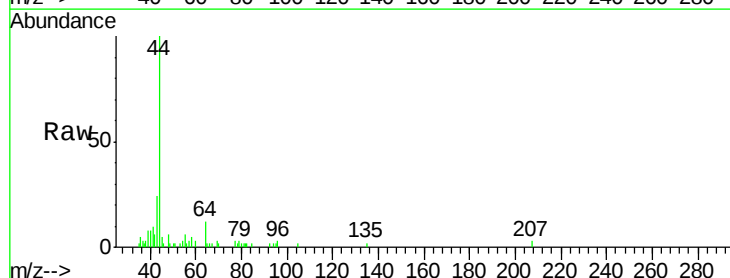
Acq: 01 Jun 2018 08:15

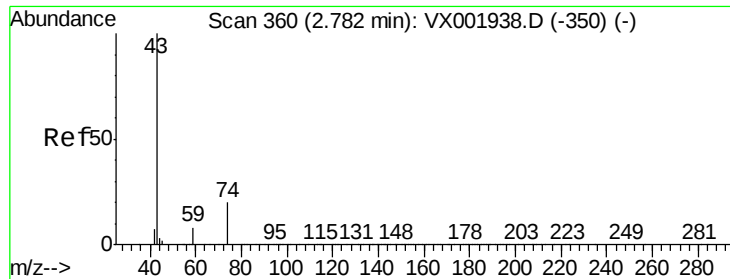
Tgt Ion: 43 Resp: 1235

Ion Ratio Lower Upper

43 100

58 19.4 22.3 33.5#

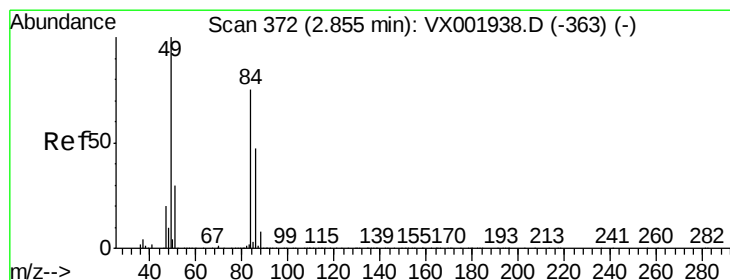
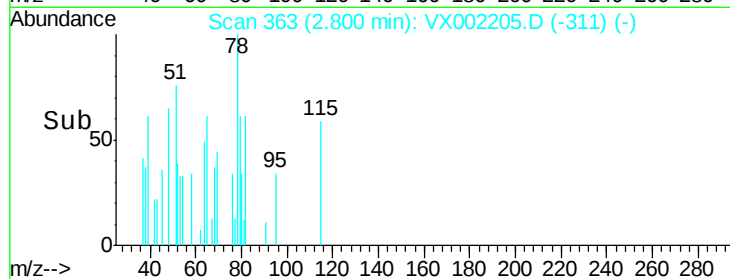
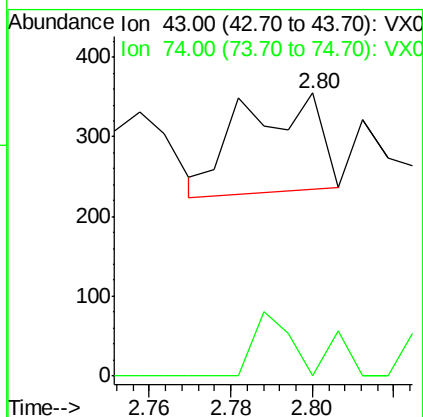
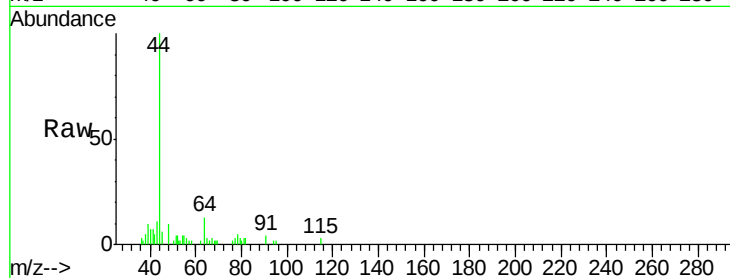




#18
Methyl Acetate
Concen: Below Cal
RT: 2.80 min Scan# 363
Delta R.T. 0.02 min
Lab File: VX002205.D
Acq: 01 Jun 2018 08:15

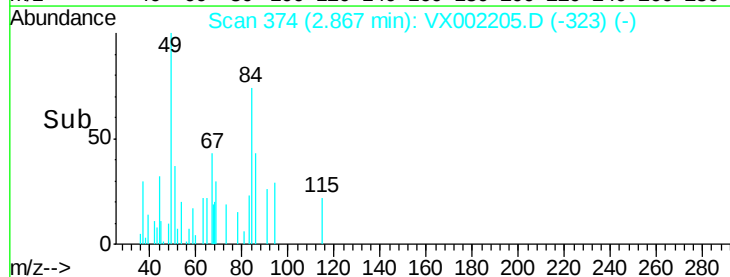
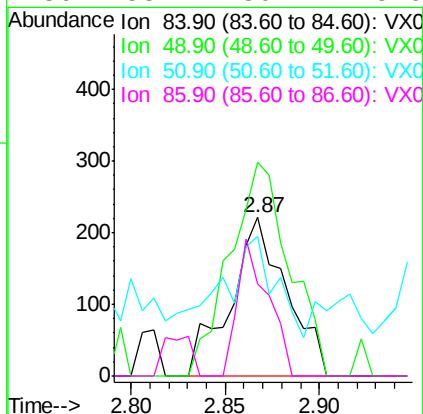
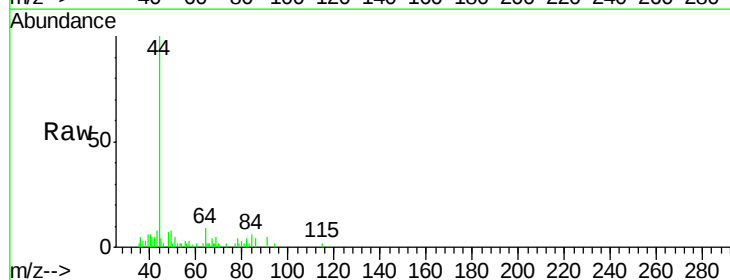
Instrument :
MSVOA_X
ClientSampled :

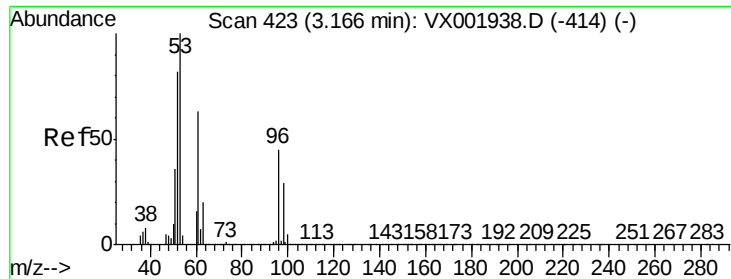
Tot Ion: 43 Resp: 162
Ion Ratio Lower Upper
43 100
74 42.6 16.8 25.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX002205.D
Acq: 01 Jun 2018 08:15

Tgt Ion: 84 Resp: 456
Ion Ratio Lower Upper
84 100
49 134.8 107.2 160.8
51 45.7 32.4 48.6
86 58.4 50.4 75.6

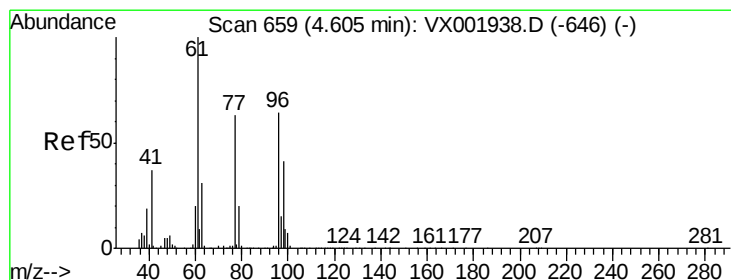
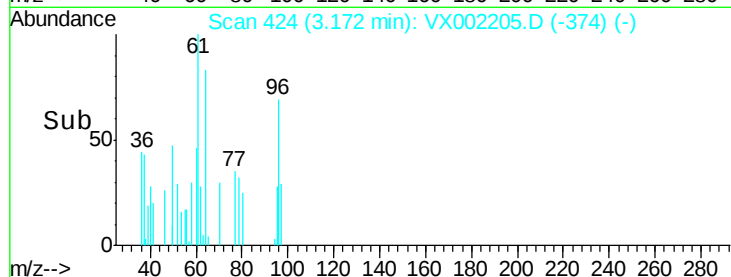
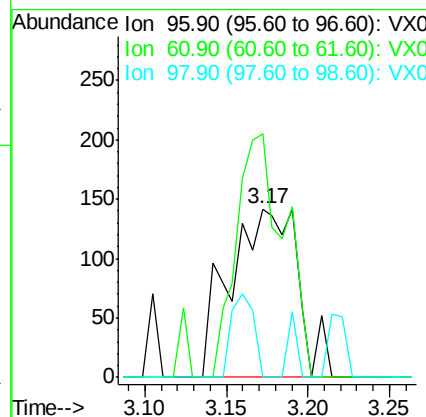
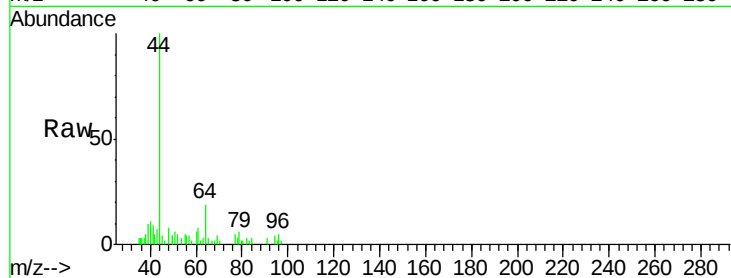




#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 424
Delta R.T. 0.01 min
Lab File: VX002205.D
Acq: 01 Jun 2018 08:15

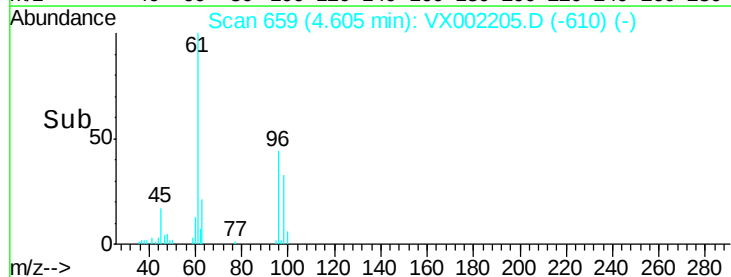
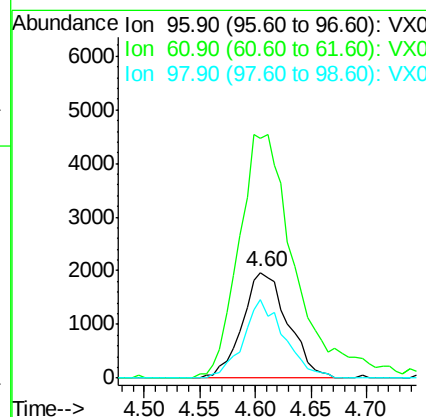
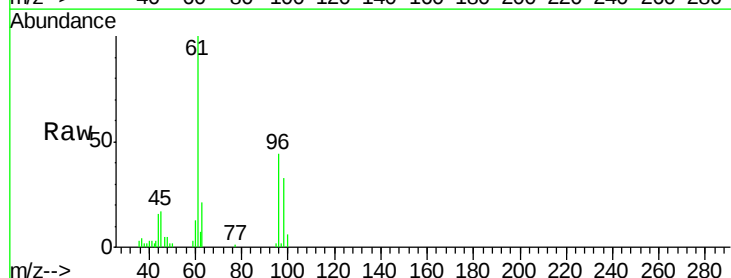
Instrument :
MSVOA_X
ClientSampled :

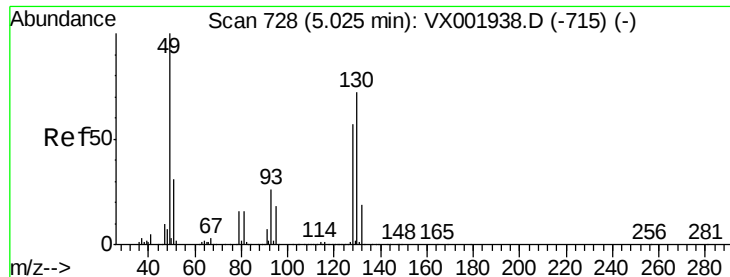
Tot Ion: 96 Resp: 411
Ion Ratio Lower Upper
96 100
61 144.4 113.3 169.9
98 0.0 51.7 77.5#



#27
cis-1,2-Dichloroethene
Concen: 1.43 ug/l
RT: 4.60 min Scan# 659
Delta R.T. -0.00 min
Lab File: VX002205.D
Acq: 01 Jun 2018 08:15

Tgt Ion: 96 Resp: 5585
Ion Ratio Lower Upper
96 100
61 288.2 0.0 348.4
98 66.9 0.0 128.6





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 728

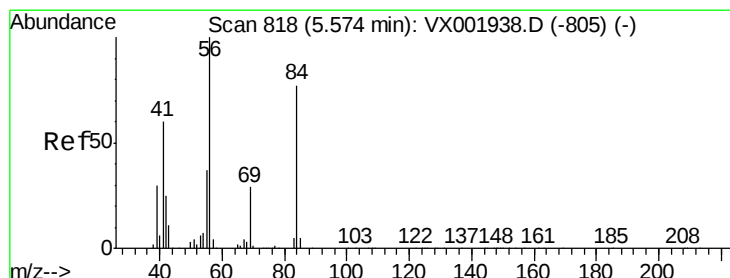
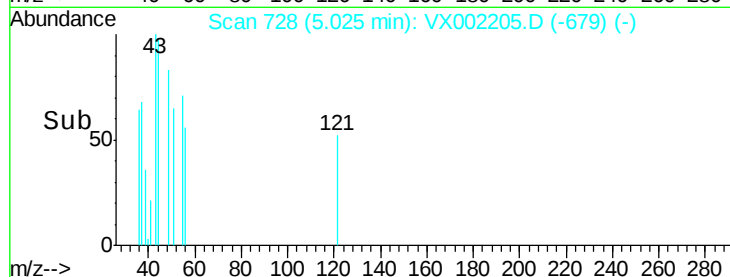
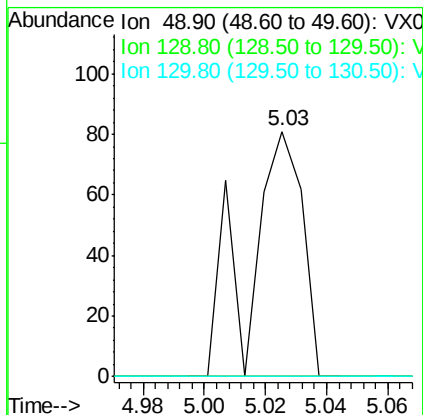
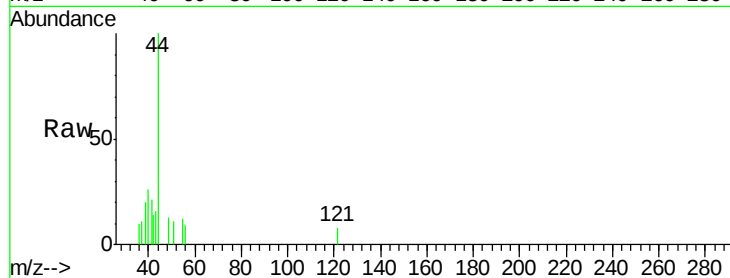
Delta R.T. 0.00 min

Lab File: VX002205.D

Acq: 01 Jun 2018 08:15

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	49	Resp:	98
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	59.4	89.2#



#31

Cyclohexane

Concen: 0.94 ug/l

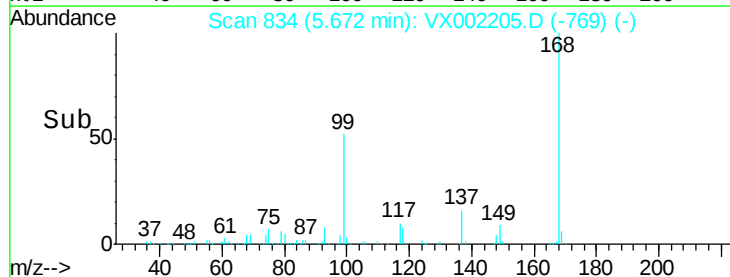
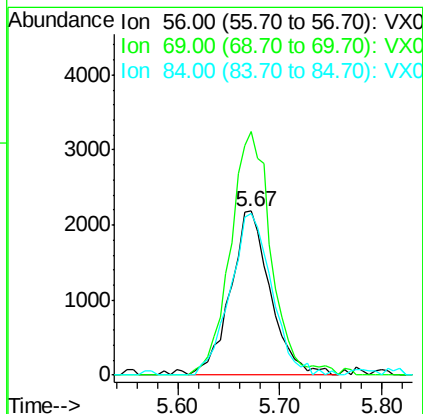
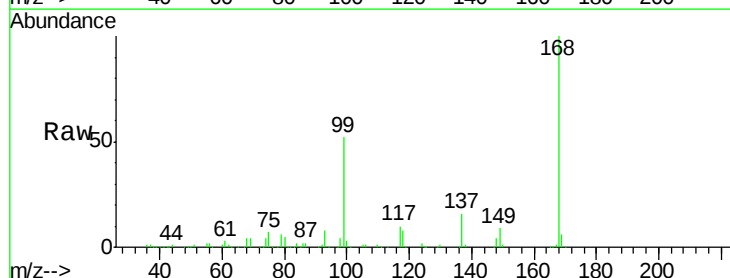
RT: 5.67 min Scan# 834

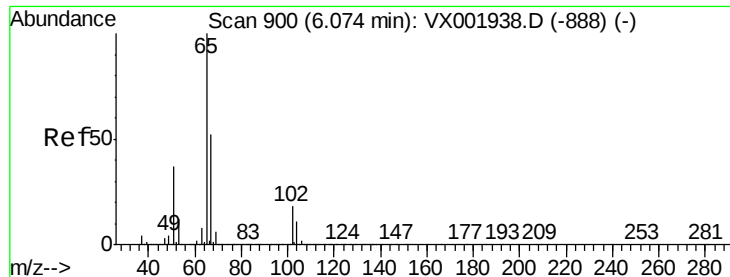
Delta R.T. 0.10 min

Lab File: VX002205.D

Acq: 01 Jun 2018 08:15

Tgt Ion:	56	Resp:	5924
Ion	Ratio	Lower	Upper
56	100		
69	148.6	23.1	34.7#
84	98.8	62.0	93.0#

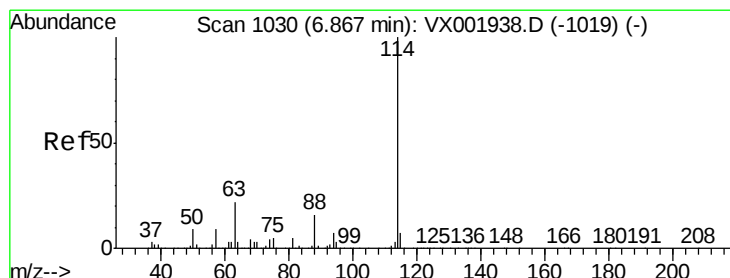
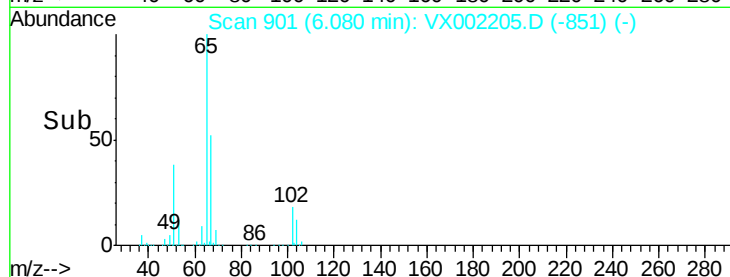
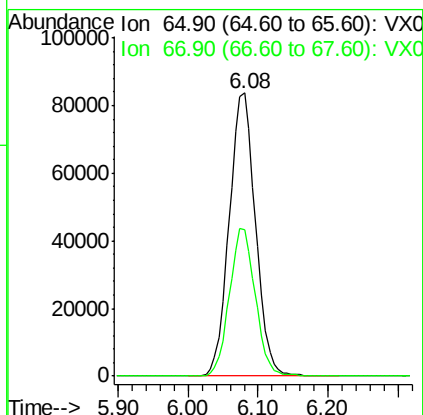
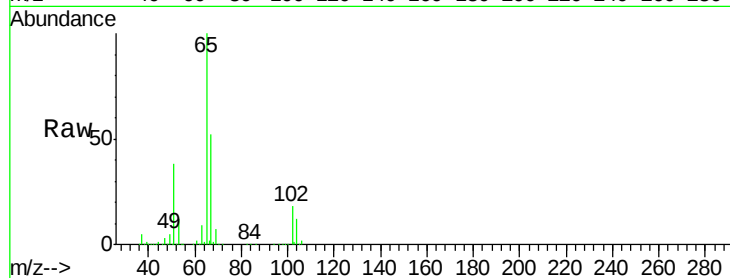




#33
 1,2-Dichloroethane-d4
 Concen: 47.60 ug/l
 RT: 6.08 min Scan# 901
 Delta R.T. 0.01 min
 Lab File: VX002205.D
 Acq: 01 Jun 2018 08:15

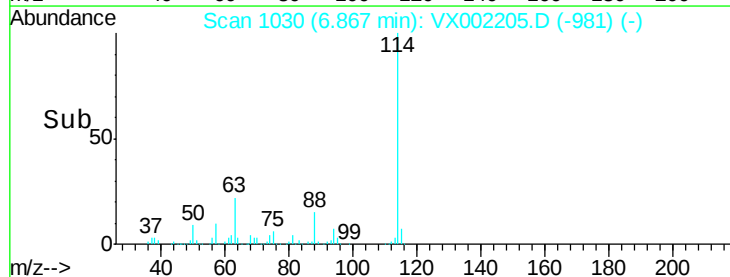
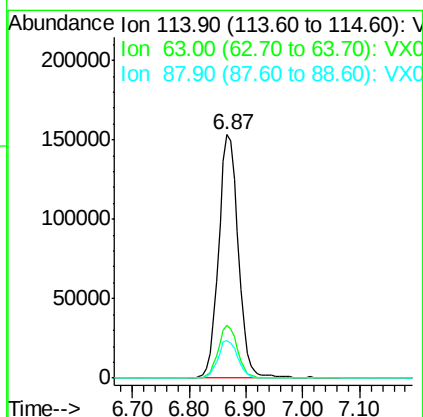
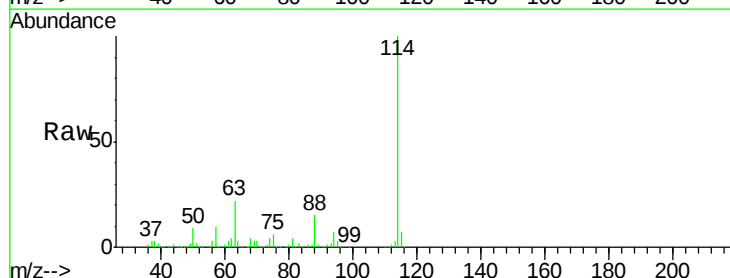
Instrument :
 MSVOA_X
 ClientSampleId :

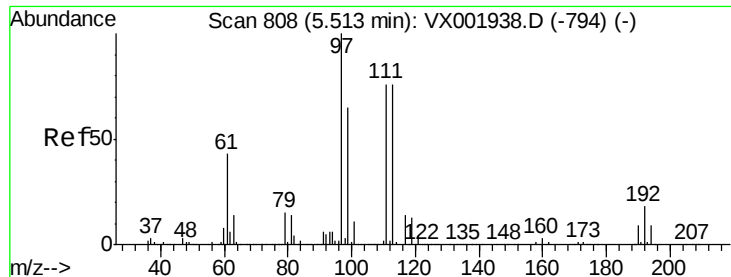
Tot Ion: 65 Resp: 218813
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002205.D
 Acq: 01 Jun 2018 08:15

Tgt Ion: 114 Resp: 367447
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 43.2
 88 15.5 0.0 31.6

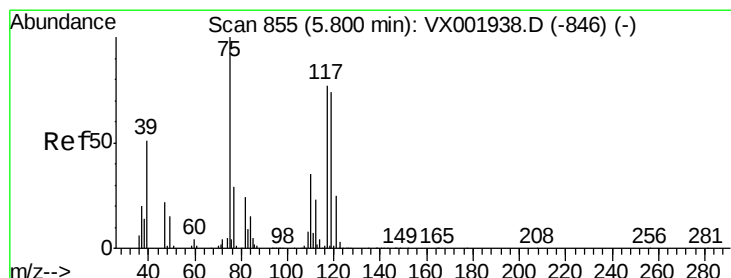
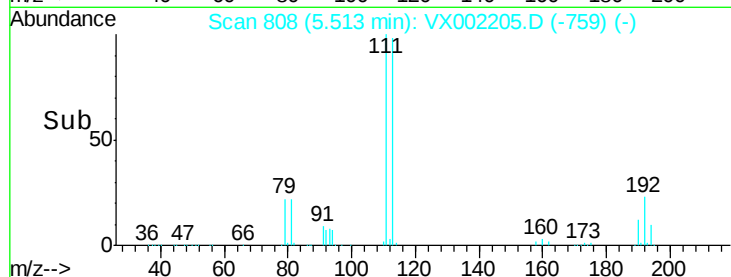
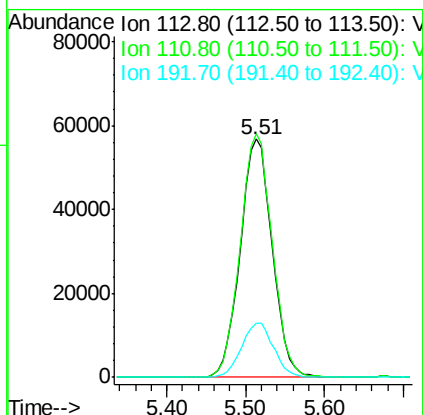
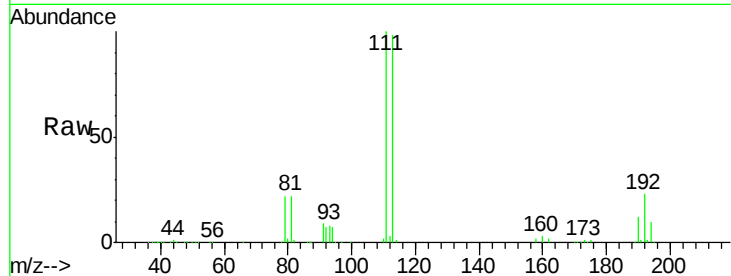




#35
 Dibromofluoromethane
 Concen: 43.57 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. -0.00 min
 Lab File: VX002205.D
 Acq: 01 Jun 2018 08:15

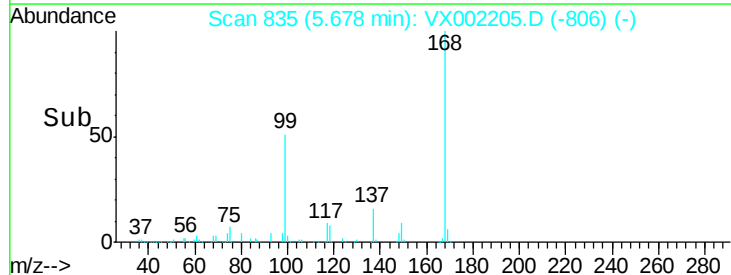
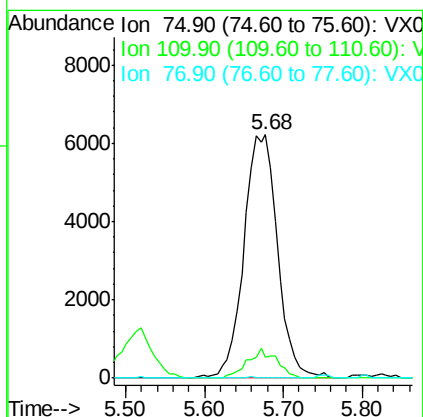
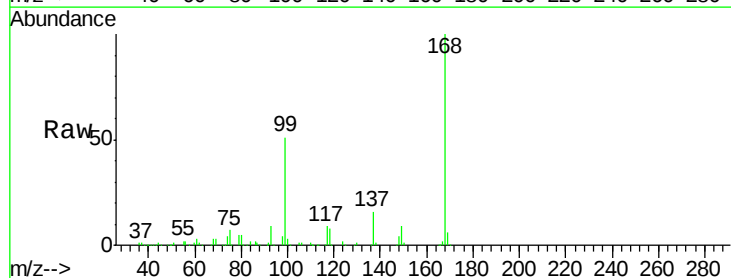
Instrument :
 MSVOA_X
 ClientSampleId :

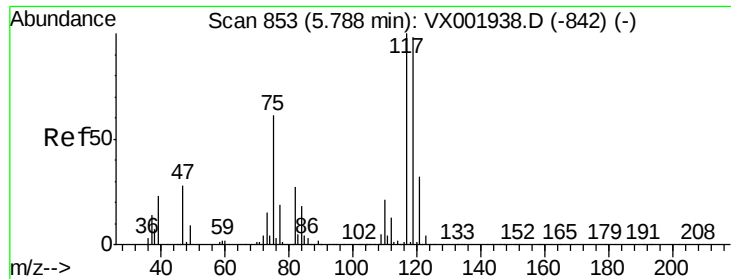
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.0	123.0
192	23.1	18.9	28.3



#36
 1,1-Dichloropropene
 Concen: 3.61 ug/l
 RT: 5.68 min Scan# 835
 Delta R.T. -0.12 min
 Lab File: VX002205.D
 Acq: 01 Jun 2018 08:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.4	17.4	52.2#
77	0.1	24.4	36.6#





#38

Carbon Tetrachloride

Concen: 4.01 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002205.D

Acq: 01 Jun 2018 08:15

Instrument :
MSVOA_X
ClientSampleId :

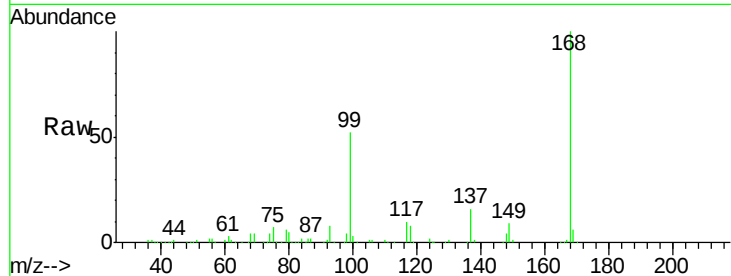
Tot Ion:117 Resp: 23881

Ion Ratio Lower Upper

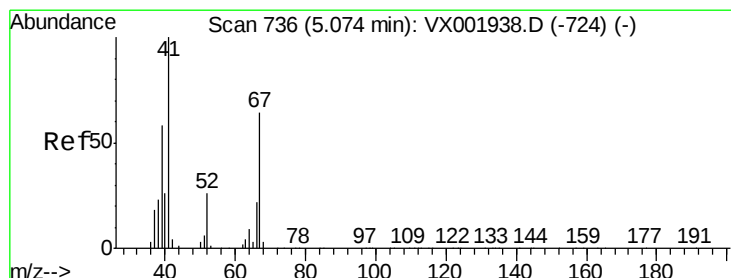
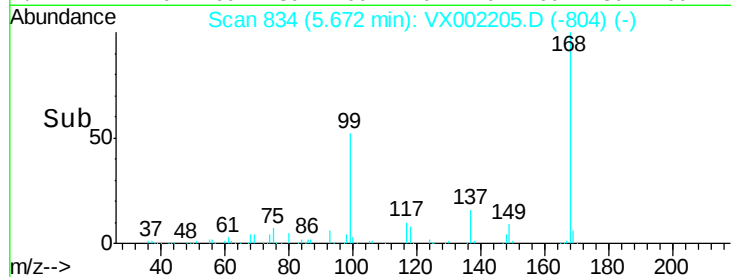
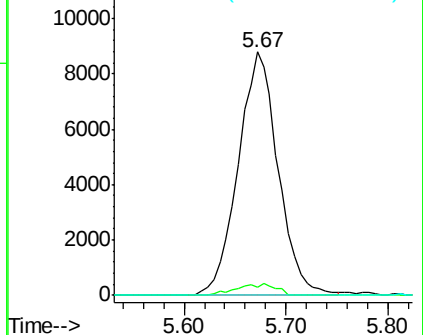
117 100

119 3.4 78.5 117.7#

121 0.0 25.5 38.3#



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 5.11 min Scan# 742

Delta R.T. 0.04 min

Lab File: VX002205.D

Acq: 01 Jun 2018 08:15

Tgt Ion: 41 Resp: 201

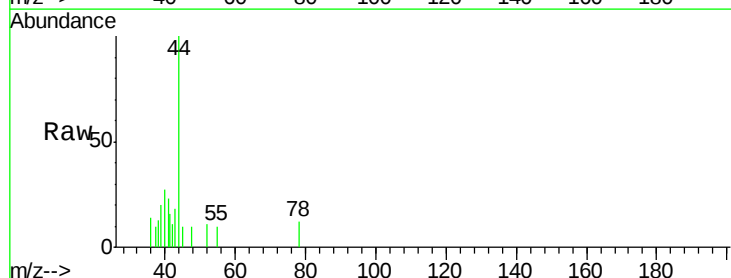
Ion Ratio Lower Upper

41 100

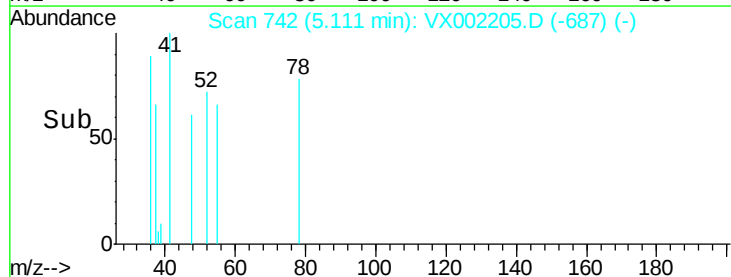
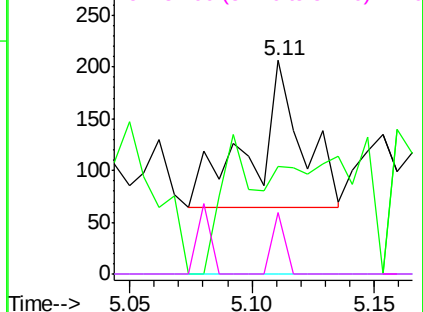
39 0.0 46.0 69.0#

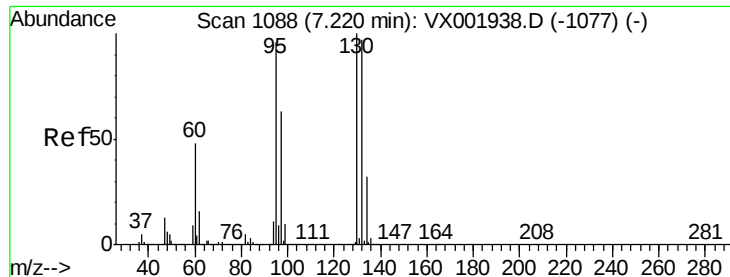
67 0.0 50.6 75.8#

52 10.9 21.9 32.9#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0





#44

Trichloroethene

Concen: 4.35 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VX002205.D

Acq: 01 Jun 2018 08:15

Instrument :

MSVOA_X

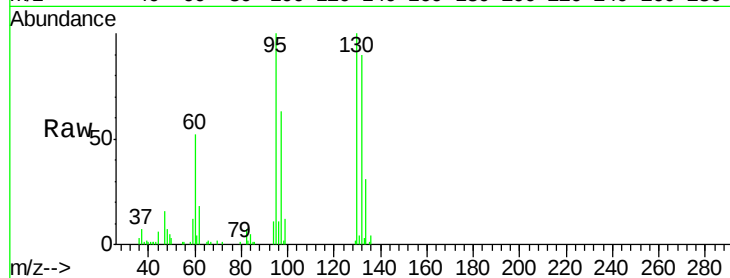
ClientSampleId :

Tot Ion:130 Resp: 18984

Ion Ratio Lower Upper

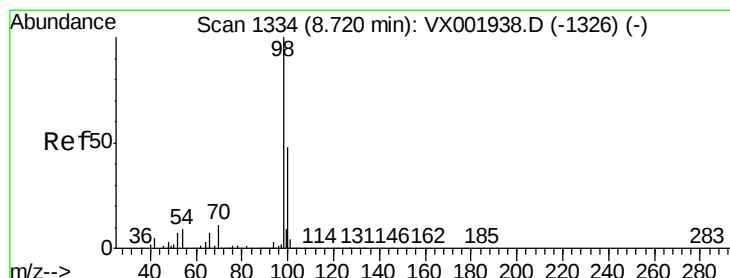
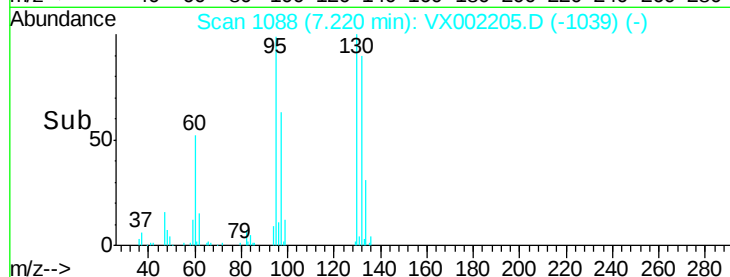
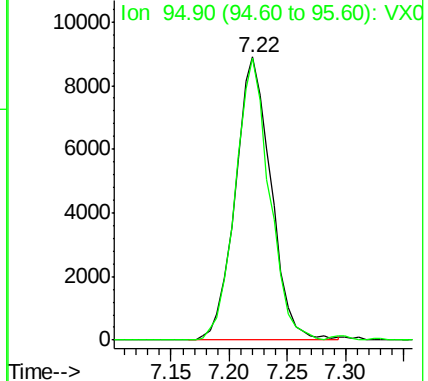
130 100

95 99.9 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 48.12 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002205.D

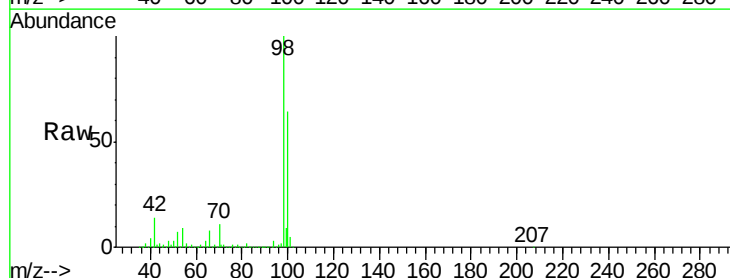
Acq: 01 Jun 2018 08:15

Tgt Ion: 98 Resp: 640129

Ion Ratio Lower Upper

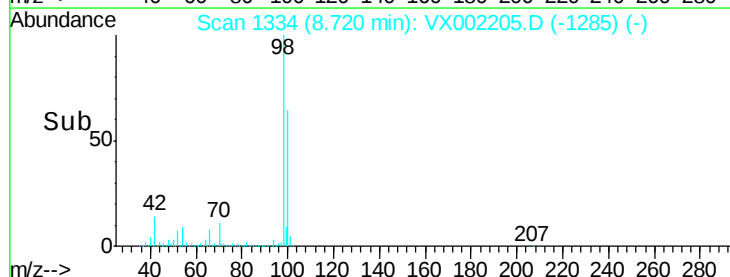
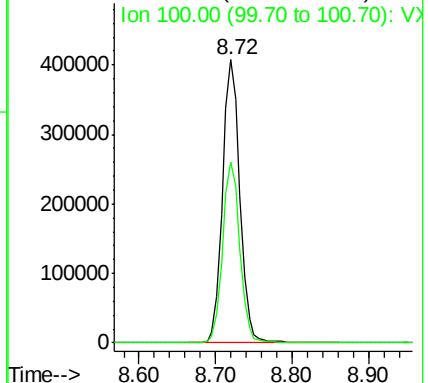
98 100

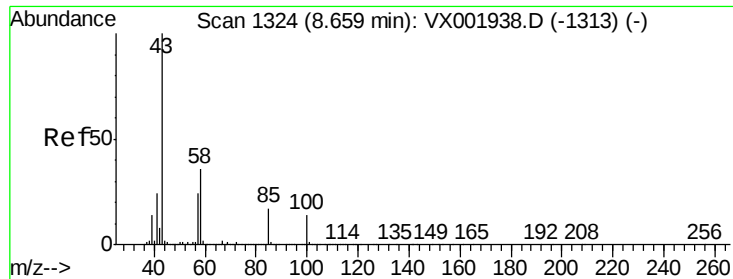
100 63.4 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

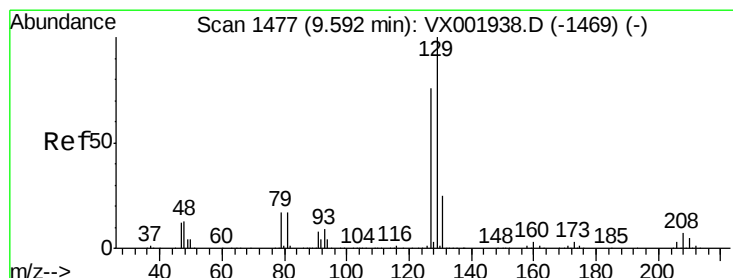
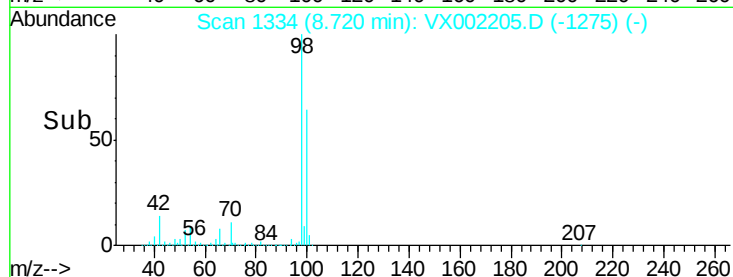
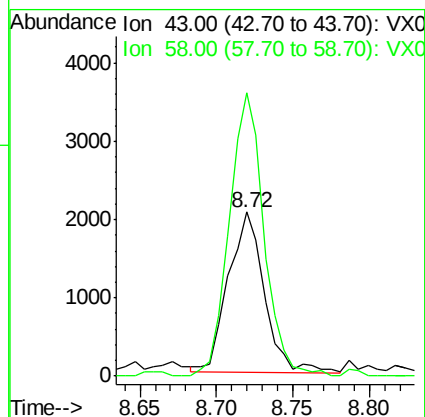
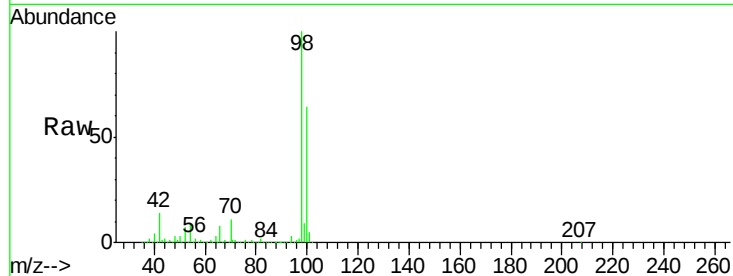




#51
4-Methyl-2-Pentanone
Concen: 0.51 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.06 min
Lab File: VX002205.D
Acq: 01 Jun 2018 08:15

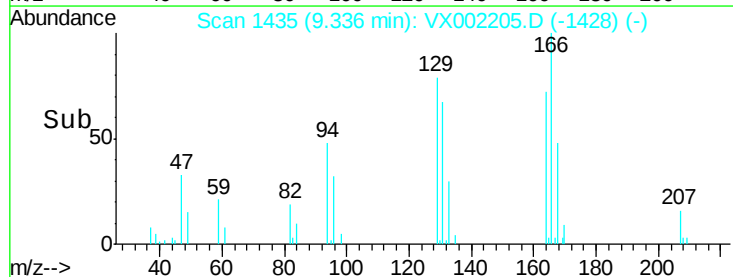
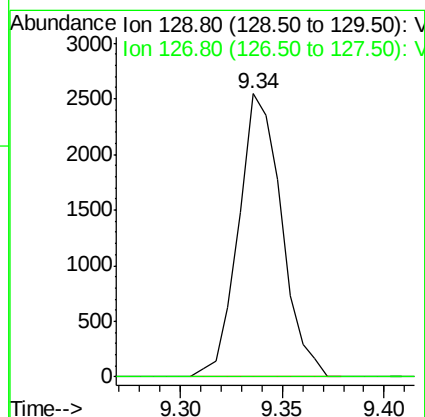
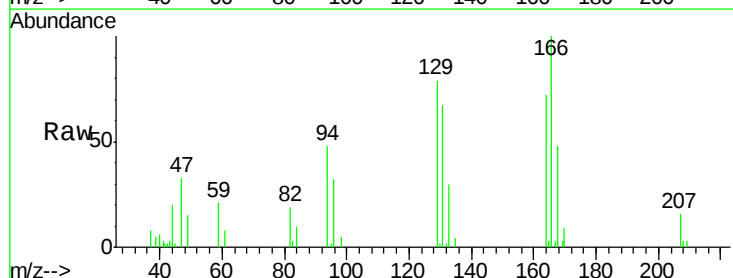
Instrument :
MSVOA_X
ClientSampled :

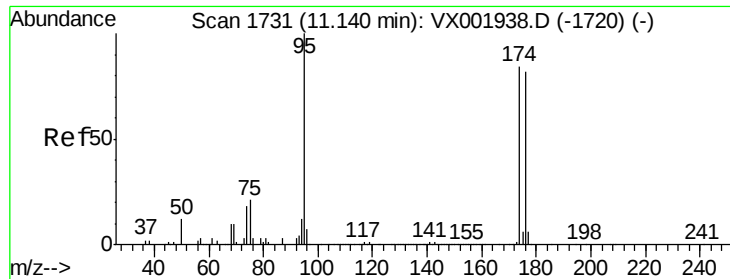
Tot Ion: 43 Resp: 3386
Ion Ratio Lower Upper
43 100
58 167.3 28.5 42.7#



#60
Dibromochloromethane
Concen: 0.79 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.26 min
Lab File: VX002205.D
Acq: 01 Jun 2018 08:15

Tgt Ion: 129 Resp: 3733
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.9#





#62

4-Bromofluorobenzene

Concen: 43.44 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002205.D

Acq: 01 Jun 2018 08:15

Instrument :

MSVOA_X

ClientSampleId :

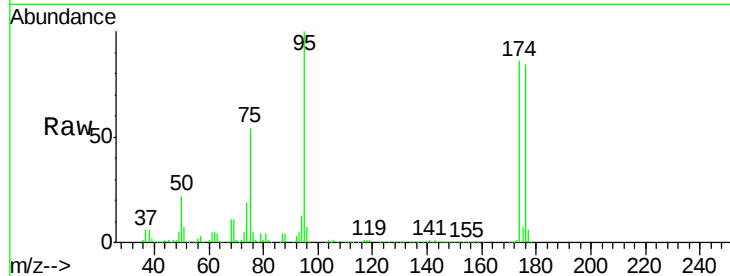
Tot Ion: 95 Resp: 226073

Ion Ratio Lower Upper

95 100

174 91.6 0.0 178.8

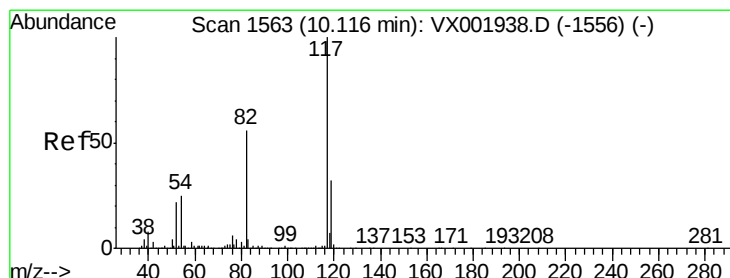
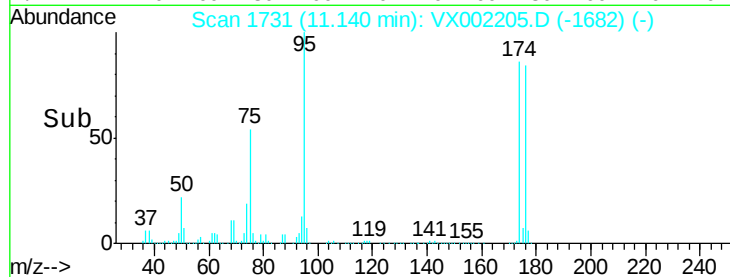
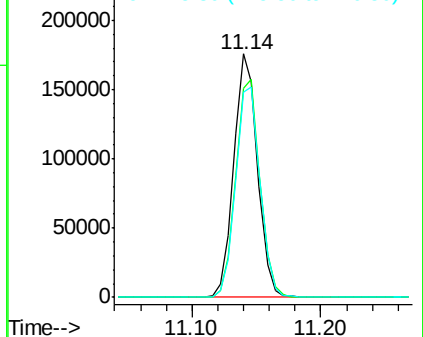
176 89.1 0.0 175.6



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: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002205.D

Acq: 01 Jun 2018 08:15

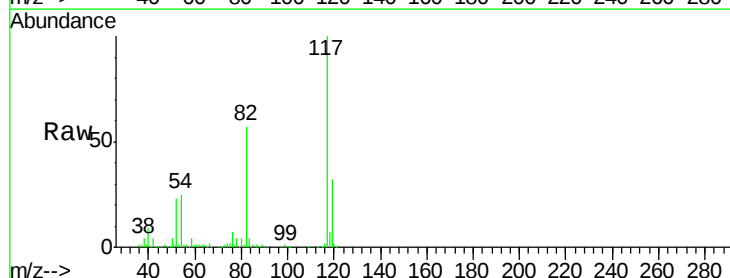
Tgt Ion: 117 Resp: 332249

Ion Ratio Lower Upper

117 100

82 57.4 44.8 67.2

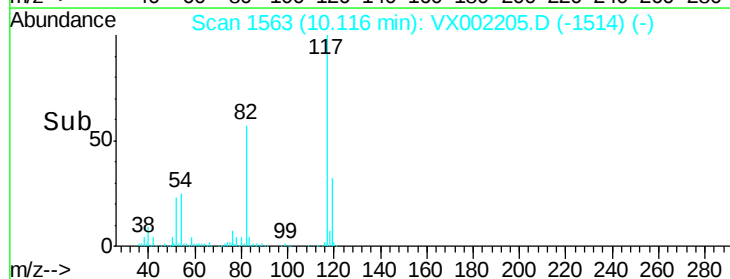
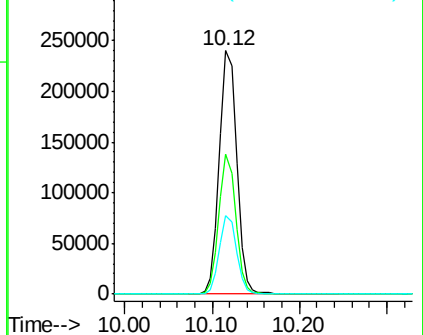
119 32.3 25.5 38.3

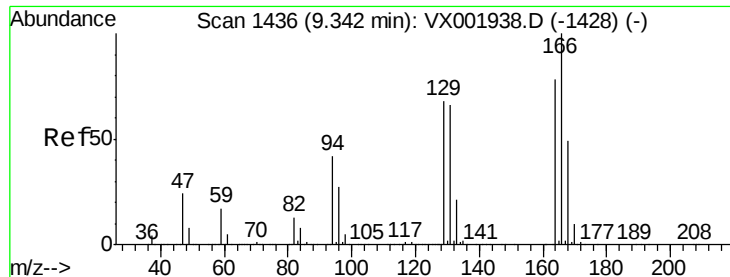


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.86 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.00 min

Lab File: VX002205.D

Acq: 01 Jun 2018 08:15

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:164 Resp: 4100

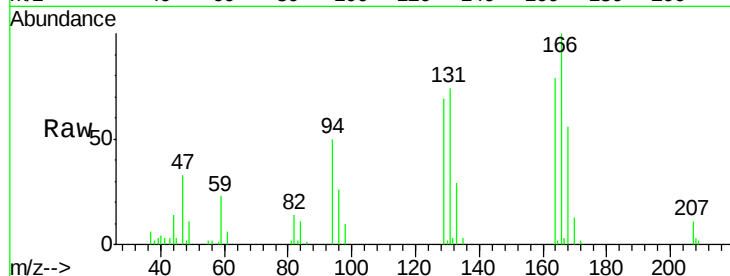
Ion Ratio Lower Upper

164 100

166 126.3 102.7 154.1

129 87.3 70.3 105.5

131 93.7 68.2 102.4



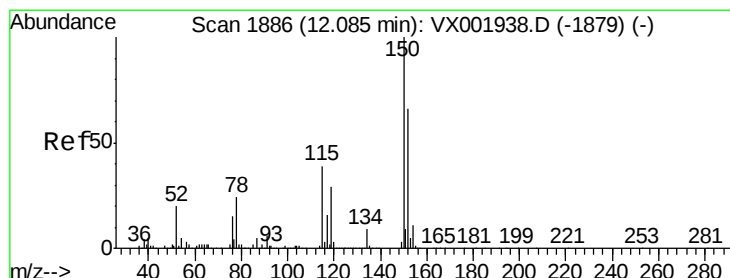
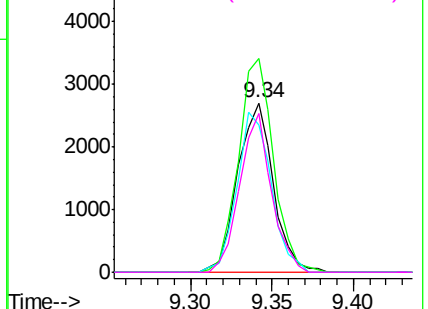
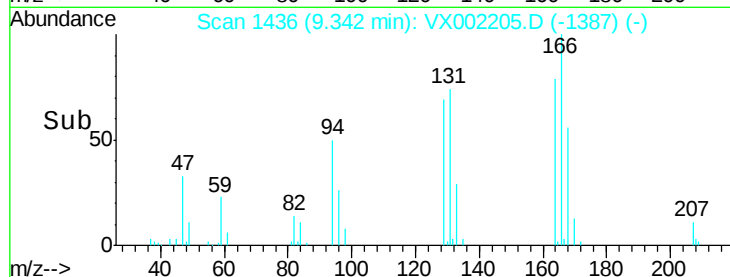
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002205.D

Acq: 01 Jun 2018 08:15

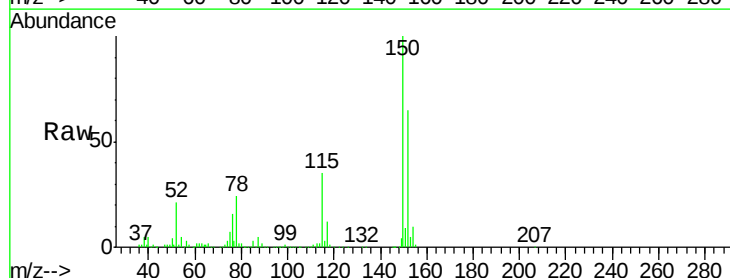
Tgt Ion:152 Resp: 185379

Ion Ratio Lower Upper

152 100

115 55.4 42.3 126.8

150 155.1 0.0 351.0

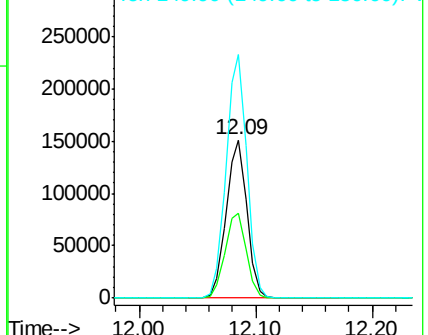
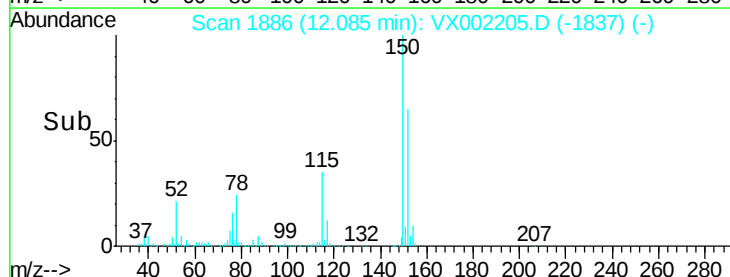


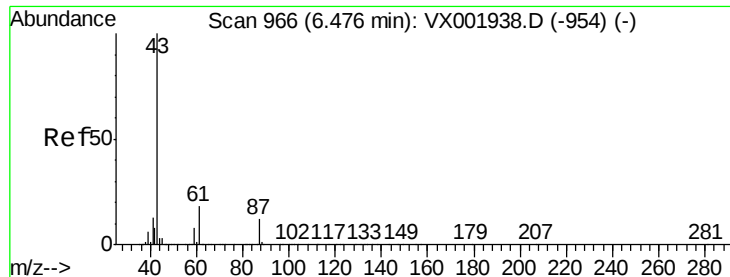
Abundance

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





#74

N-amvl acetate

Concen: Below Cal

RT: 6.46 min Scan# 963

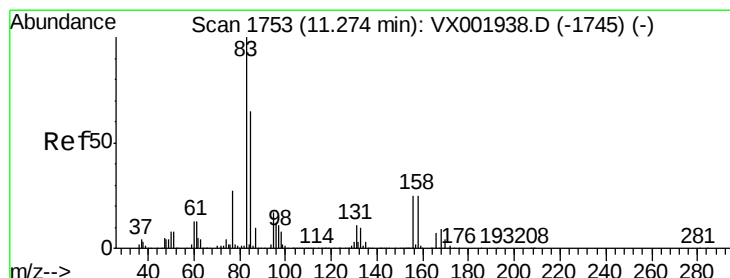
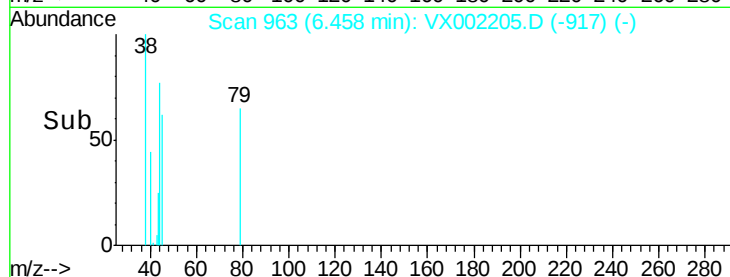
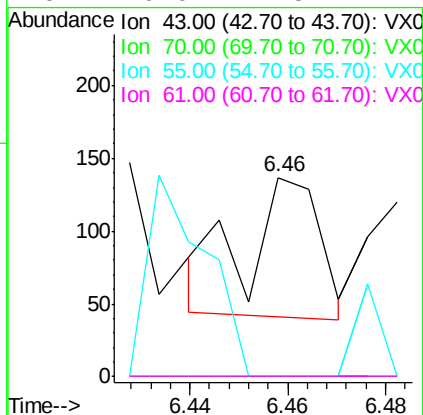
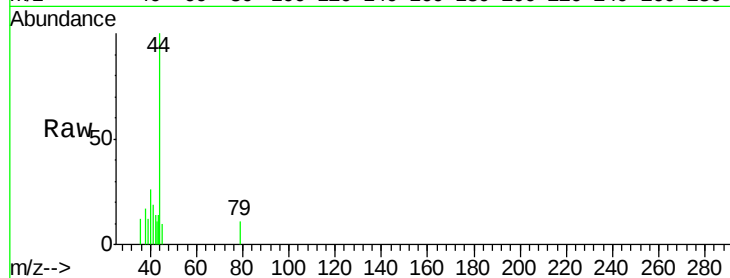
Delta R.T. -0.02 min

Lab File: VX002205.D

Acq: 01 Jun 2018 08:15

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	43	Resp:	99
Ion	Ratio	Lower	Upper
43	100		
70	0.0	0.1	0.1#
55	23.2	0.1	0.1#
61	0.0	14.5	21.7#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

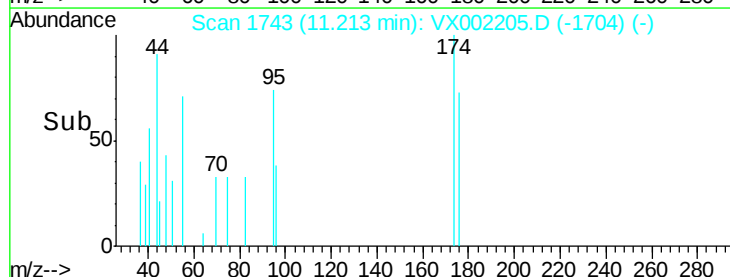
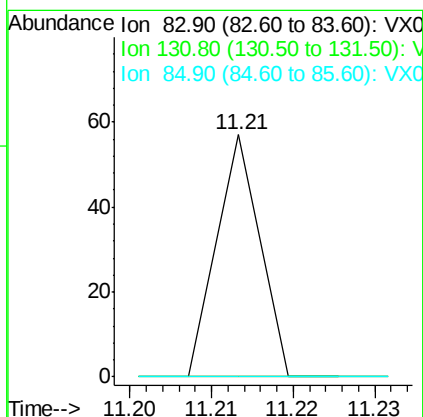
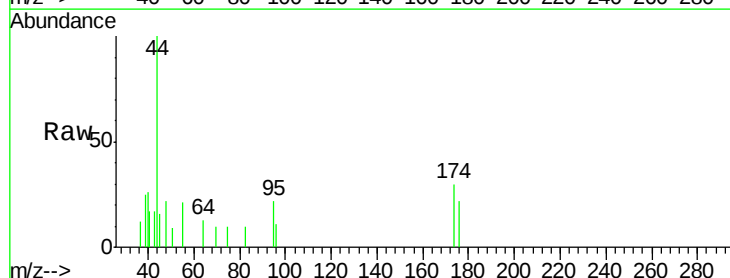
RT: 11.21 min Scan# 1743

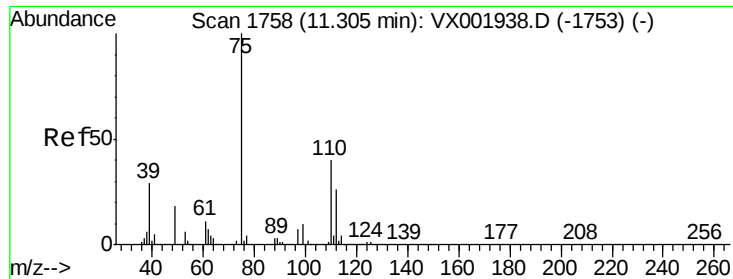
Delta R.T. -0.06 min

Lab File: VX002205.D

Acq: 01 Jun 2018 08:15

Tgt Ion:	83	Resp:	21
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.7	17.0#
85	0.0	32.6	97.7#

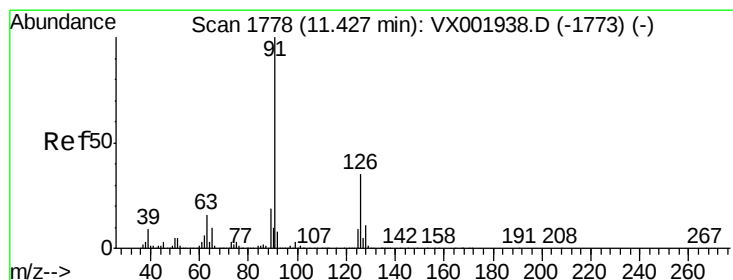
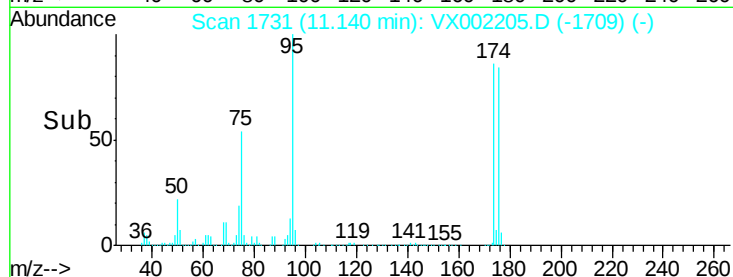
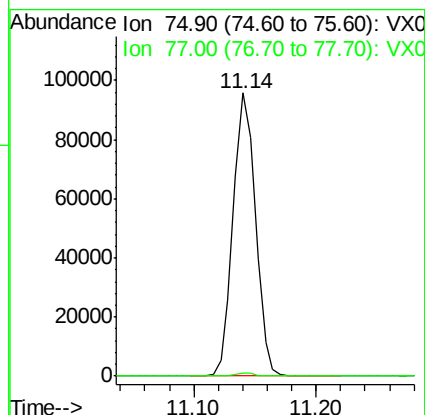
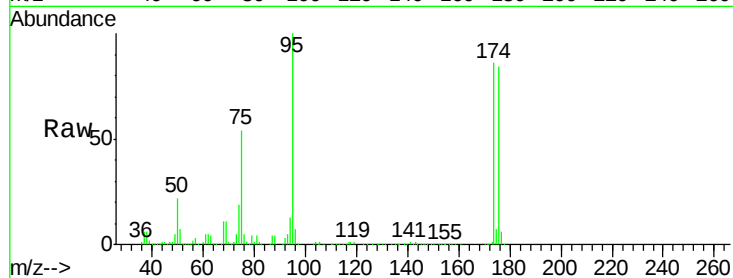




#76
 1,2,3-Trichloropropane
 Concen: 27.25 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002205.D
 Acq: 01 Jun 2018 08:15

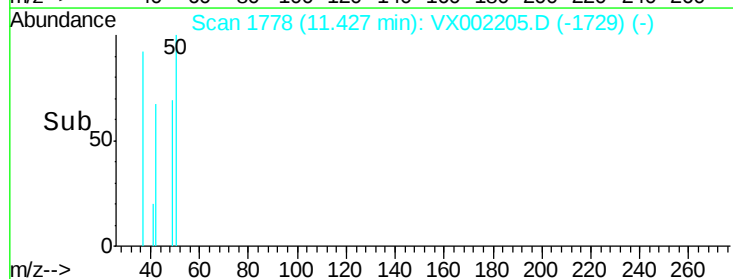
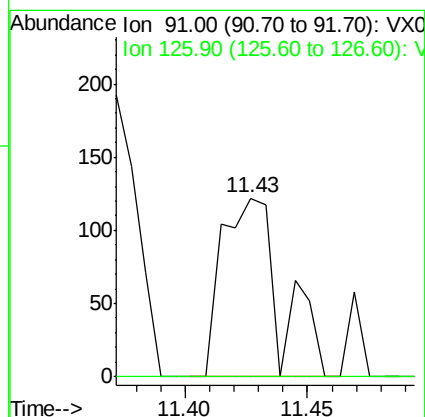
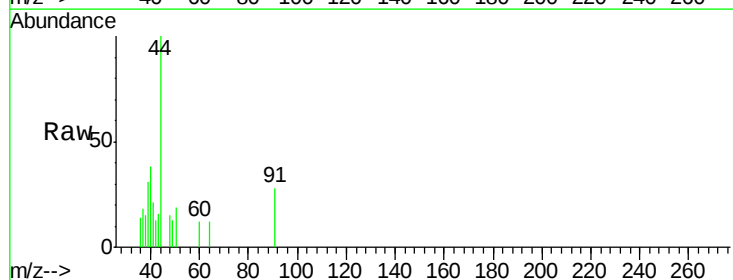
Instrument :
 MSVOA_X
 ClientSampleId :

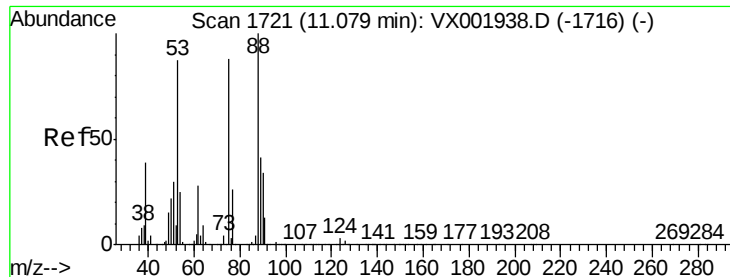
Tot Ion: 75 Resp: 121317
 Ion Ratio Lower Upper
 75 100
 77 1.1 22.8 68.3#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.43 min Scan# 1778
 Delta R.T. 0.00 min
 Lab File: VX002205.D
 Acq: 01 Jun 2018 08:15

Tgt Ion: 91 Resp: 206
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.4 52.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 65.48 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002205.D

Acq: 01 Jun 2018 08:15

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 121317

Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

89 0.0 39.4 59.2#

