

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062718\
 Data File : VX002934.D
 Acq On : 27 Jun 2018 14:18
 Operator : JC/MD
 Sample : J3707-19
 Misc : 5.79µ/5mL/100µL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 28 03:12:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	239104	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	338192	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	324263	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	195710	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	162445	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
35) Dibromofluoromethane	5.51	113	125440	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
50) Toluene-d8	8.72	98	483735	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
62) 4-Bromofluorobenzene	11.14	95	179808	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	

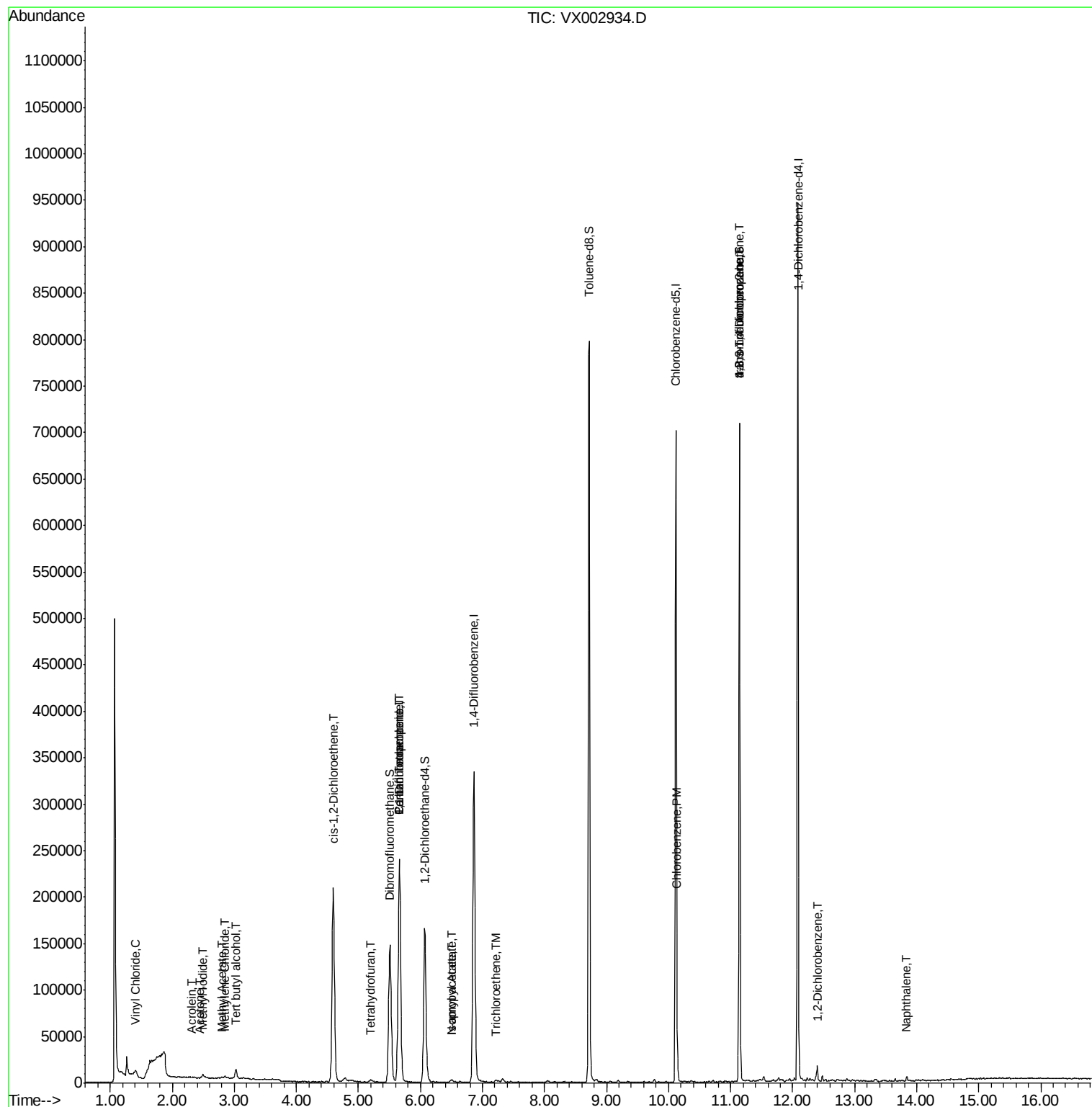
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	19	Below Cal	#	1
3) Chloromethane	1.32	50	1140	Below Cal	#	76
4) Vinyl Chloride	1.41	62	3359	1.24	ug/l	1
5) Bromomethane	1.64	94	2776	Below Cal		97
6) Chloroethane	1.70	64	188	Below Cal	#	1
10) Methyl Iodide	2.49	142	3633	7.41	ug/l	98
11) Tert butyl alcohol	3.03	59	6759	10.27	ug/l	78
13) Acrolein	2.31	56	197	4.76	ug/l	20
16) Acetone	2.44	43	299	0.22	ug/l	47
18) Methyl Acetate	2.80	43	1785	0.47	ug/l	83
20) Methylene Chloride	2.85	84	1201	0.45	ug/l	85
27) cis-1,2-Dichloroethene	4.59	96	131693	45.73	ug/l	83
29) Tetrahydrofuran	5.20	42	1871	1.44	ug/l	94
36) 1,1-Dichloropropene	5.65	75	16191	4.37	ug/l	50
38) Carbon Tetrachloride	5.67	117	22275	5.47	ug/l	15
43) Isopropyl Acetate	6.49	43	1346	0.20	ug/l	63
44) Trichloroethene	7.21	130	742	0.23	ug/l	77
65) Chlorobenzene	10.14	112	6413	0.78	ug/l	95
74) N-amyl acetate	6.49	43	1346	0.21	ug/l	59
76) 1,2,3-Trichloropropane	11.14	75	94632	26.69	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	94632	75.61	ug/l	7
91) 1,2-Dichlorobenzene	12.40	146	3780	0.55	ug/l	89
95) Naphthalene	13.84	128	2783	0.21	ug/l	90

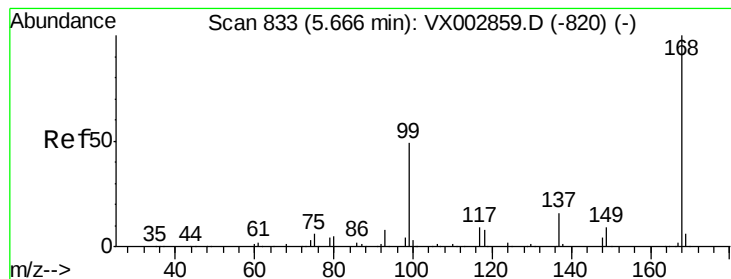
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX002934.D

Acq: 27 Jun 2018 14:18

Instrument :

MSVOA_X

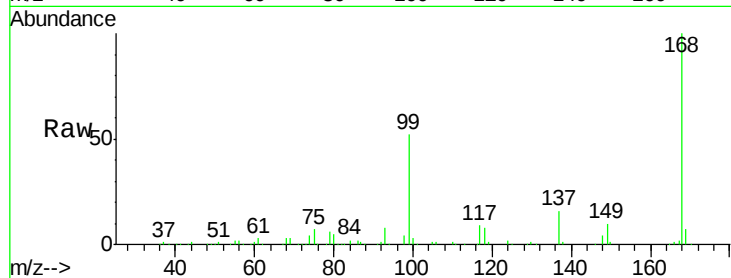
ClientSampleId :

Tot Ion:168 Resp: 239104

Ion Ratio Lower Upper

168 100

99 52.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

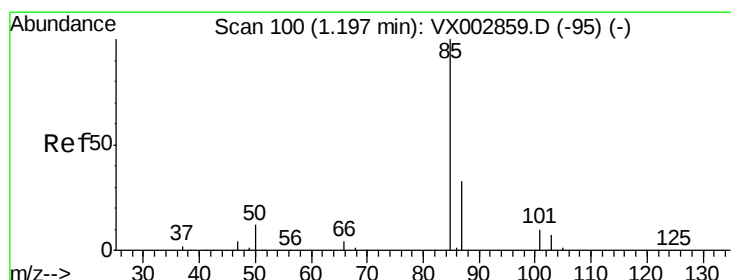
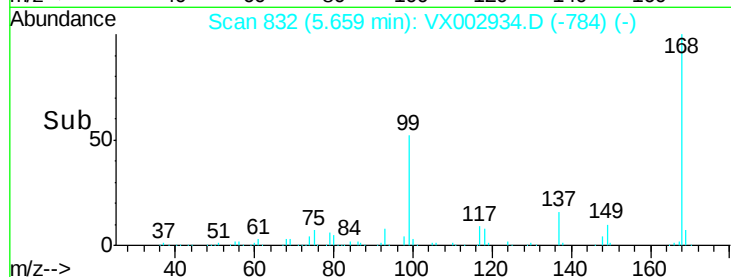
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 98

Delta R.T. -0.01 min

Lab File: VX002934.D

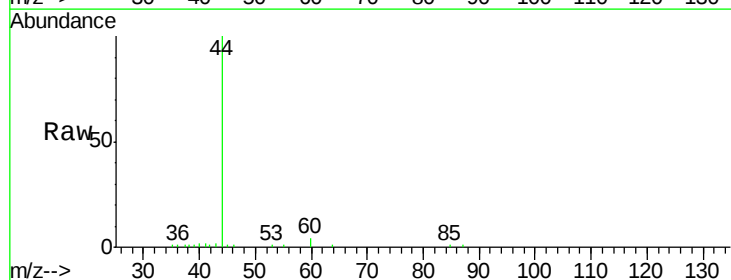
Acq: 27 Jun 2018 14:18

Tgt Ion: 85 Resp: 19

Ion Ratio Lower Upper

85 100

87 124.5 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

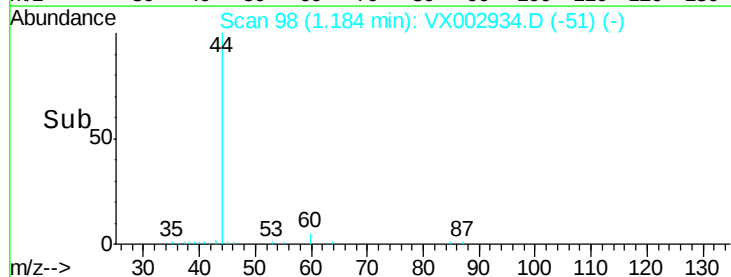
60

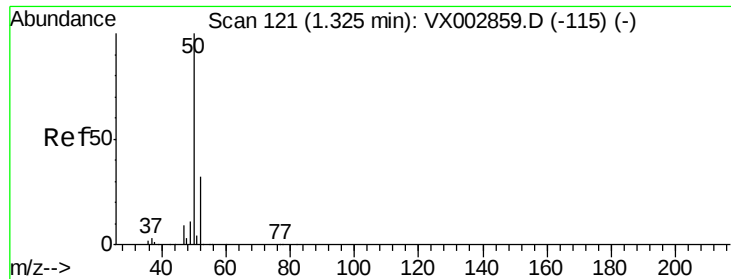
40

20

0

Time--> 1.17 1.18 1.19 1.20





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002934.D

Acq: 27 Jun 2018 14:18

Instrument :

MSVOA_X

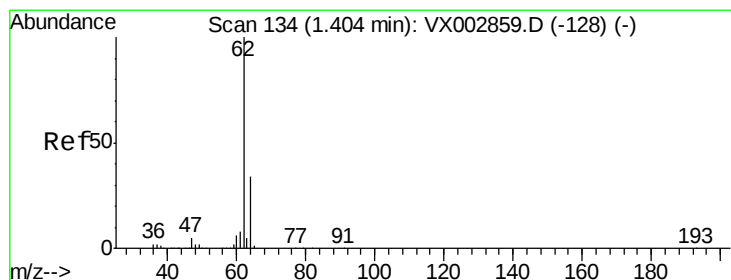
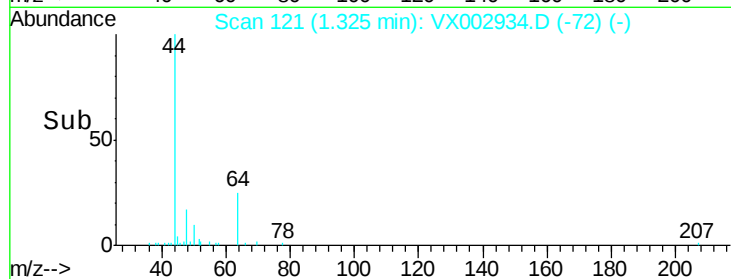
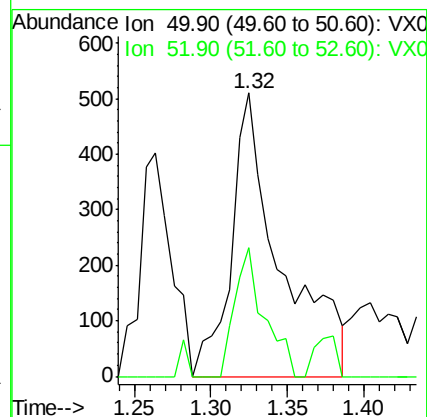
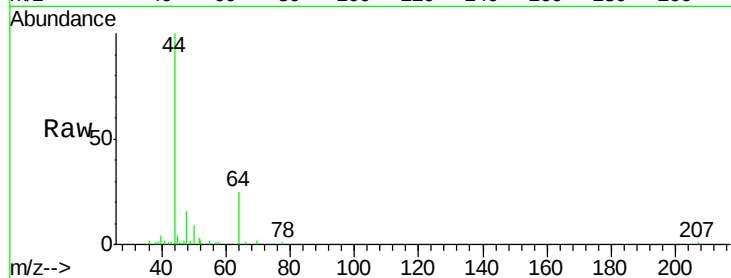
ClientSampleId :

Tot Ion: 50 Resp: 1140

Ion Ratio Lower Upper

50 100

52 45.3 25.7 38.5#



#4

Vinyl Chloride

Concen: 1.24 ug/l

RT: 1.41 min Scan# 135

Delta R.T. 0.01 min

Lab File: VX002934.D

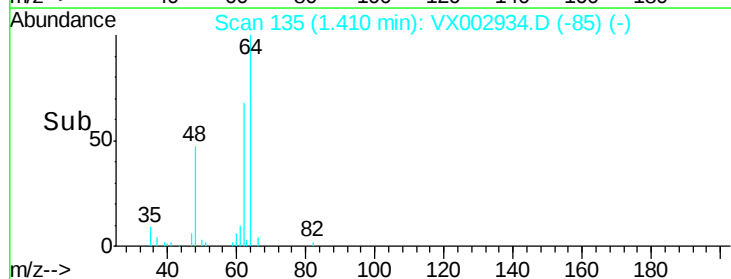
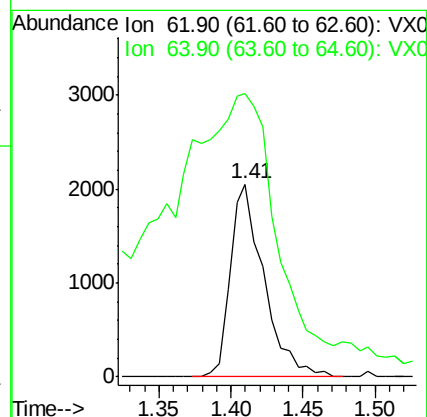
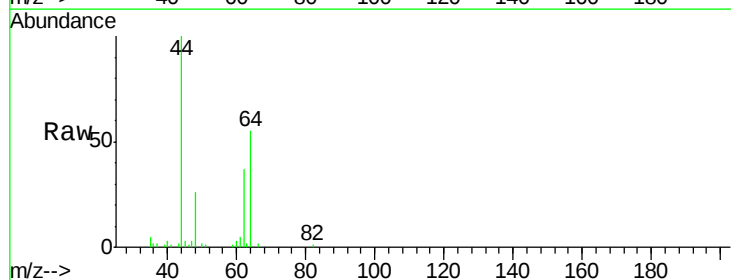
Acq: 27 Jun 2018 14:18

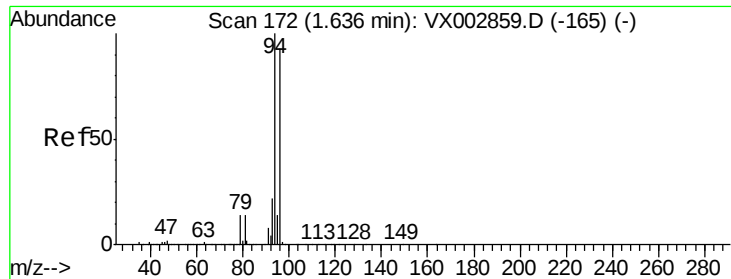
Tgt Ion: 62 Resp: 3359

Ion Ratio Lower Upper

62 100

64 128.7 25.4 38.2#





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX002934.D

Acq: 27 Jun 2018 14:18

Instrument :

MSVOA_X

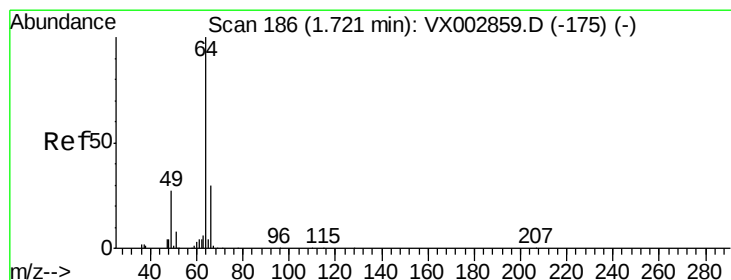
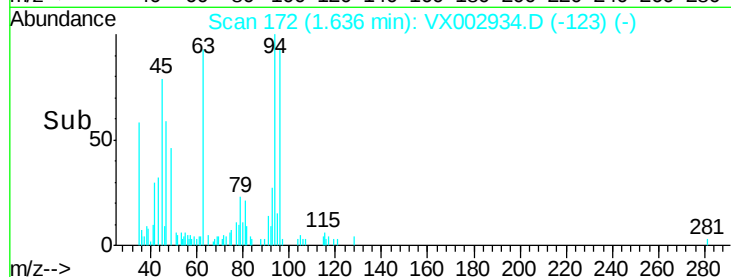
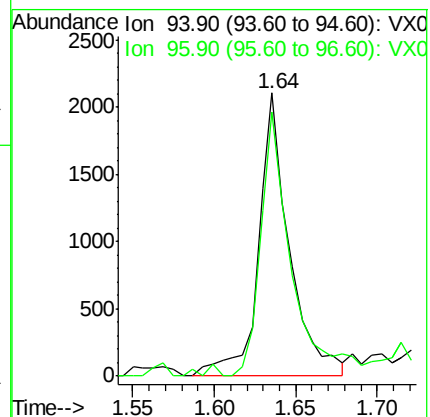
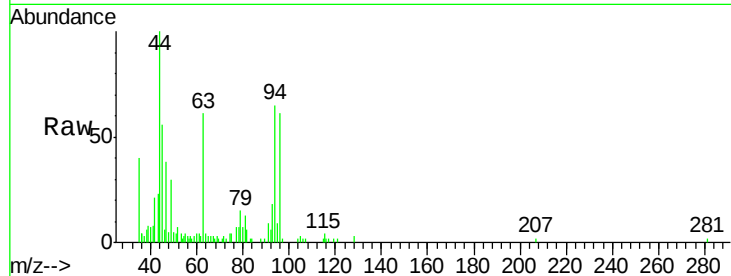
ClientSampleId :

Tot Ion: 94 Resp: 2776

Ion Ratio Lower Upper

94 100

96 90.7 74.9 112.3



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX002934.D

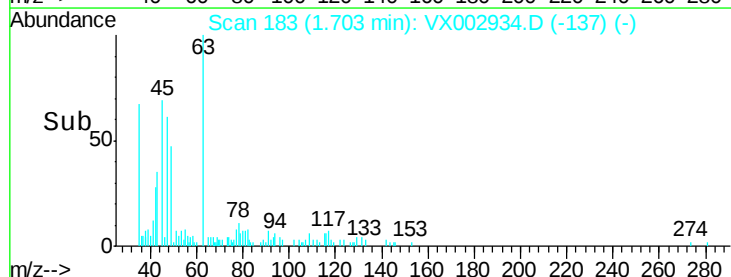
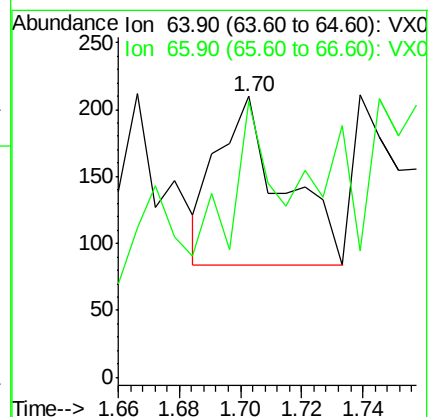
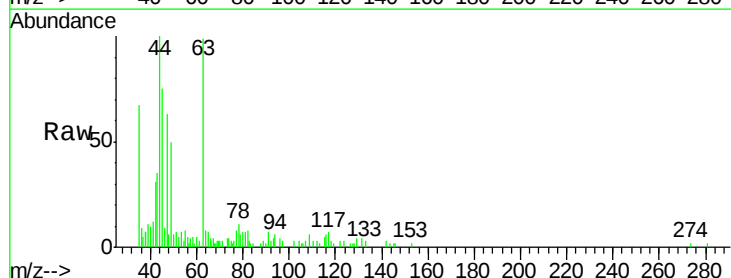
Acq: 27 Jun 2018 14:18

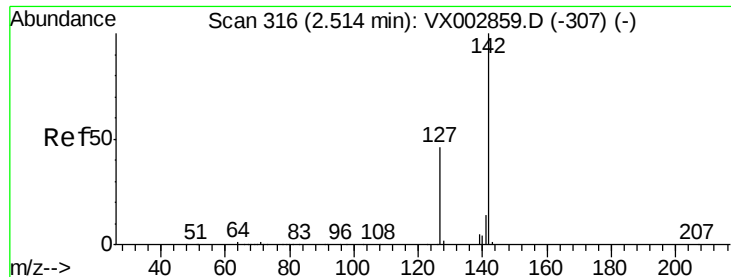
Tgt Ion: 64 Resp: 188

Ion Ratio Lower Upper

64 100

66 91.3 25.5 38.3#

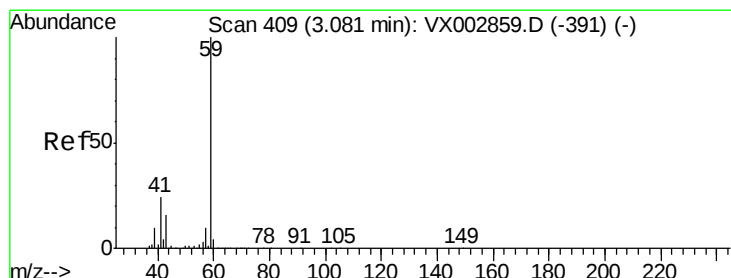
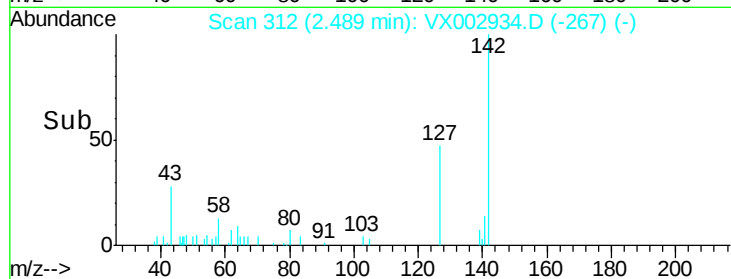
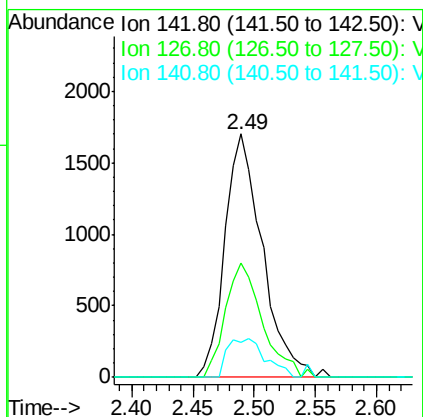
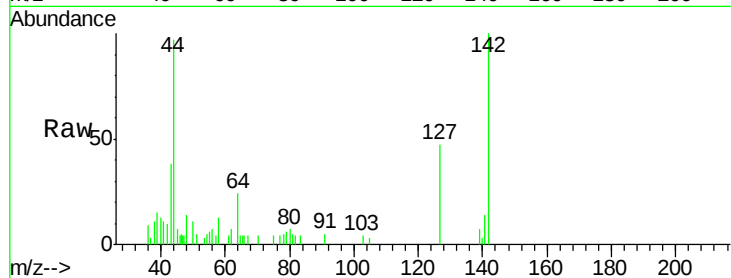




#10
Methvl Iodide
Concen: 7.41 ug/l
RT: 2.49 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX002934.D
Acq: 27 Jun 2018 14:18

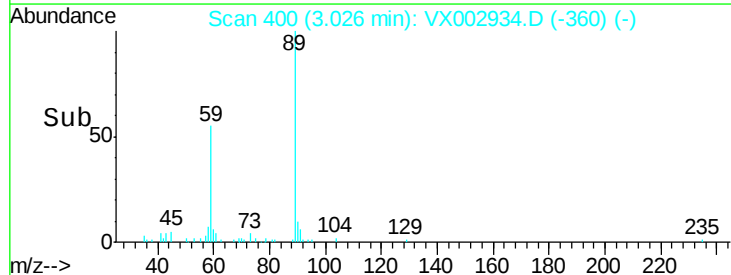
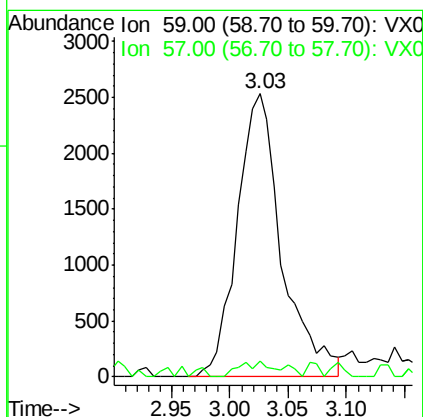
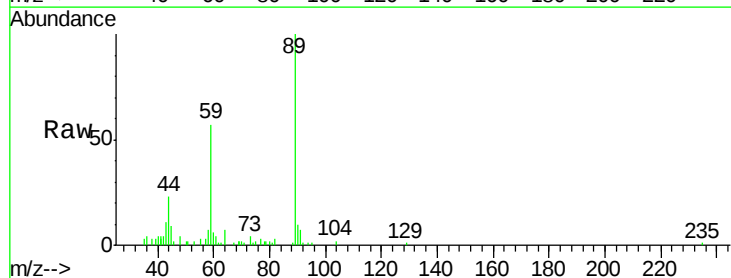
Instrument :
MSVOA_X
ClientSampleId :

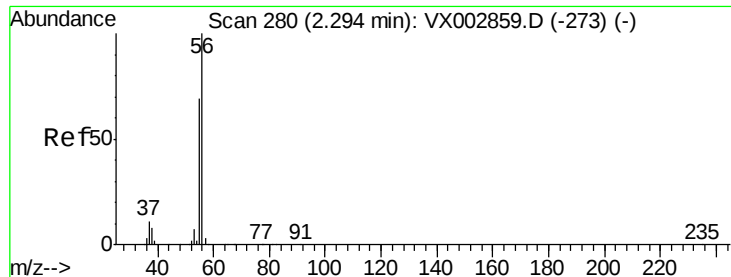
Tot Ion:142 Resp: 3633
Ion Ratio Lower Upper
142 100
127 46.2 36.6 55.0
141 16.0 11.3 16.9



#11
Tert butyl alcohol
Concen: 10.27 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.06 min
Lab File: VX002934.D
Acq: 27 Jun 2018 14:18

Tgt Ion: 59 Resp: 6759
Ion Ratio Lower Upper
59 100
57 1.9 8.2 12.2#





#13

Acrolein

Concen: 4.76 ug/l

RT: 2.31 min Scan# 283

Delta R.T. 0.02 min

Lab File: VX002934.D

Acq: 27 Jun 2018 14:18

Instrument :

MSVOA_X

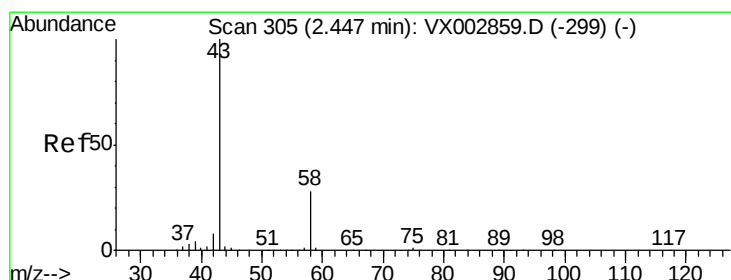
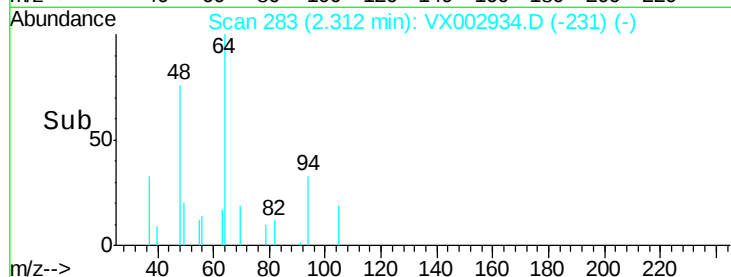
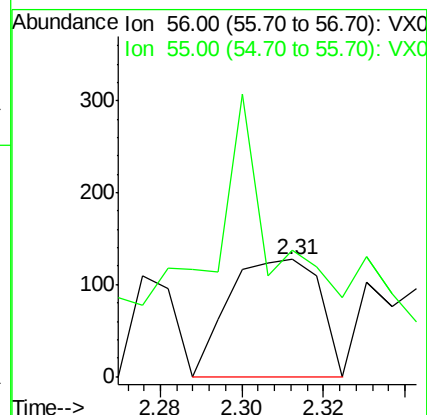
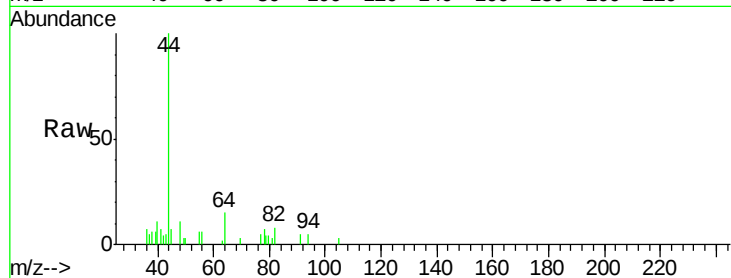
ClientSampled :

Tot Ion: 56 Resp: 197

Ion Ratio Lower Upper

56 100

55 137.1 57.0 85.4#



#16

Acetone

Concen: 0.22 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX002934.D

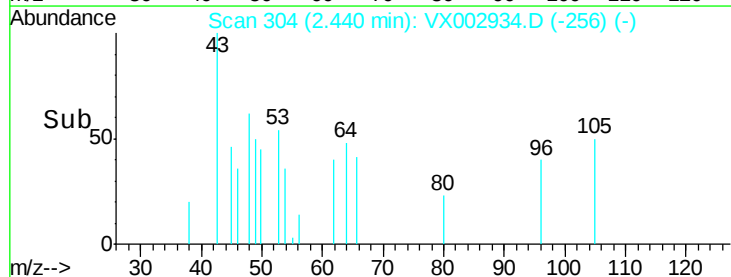
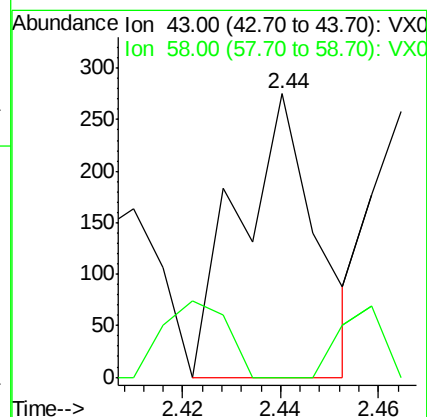
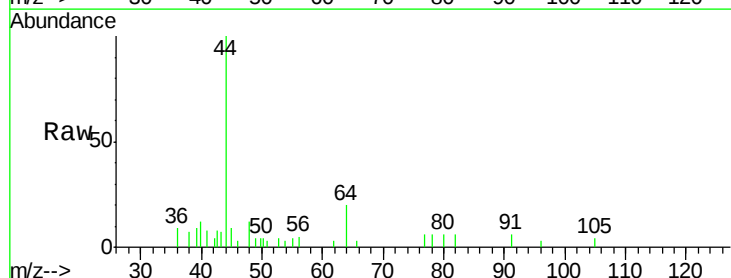
Acq: 27 Jun 2018 14:18

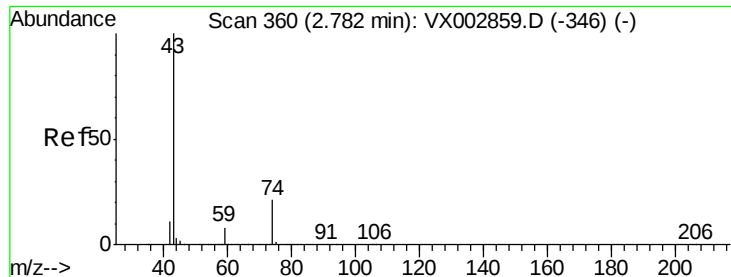
Tgt Ion: 43 Resp: 299

Ion Ratio Lower Upper

43 100

58 0.0 22.1 33.1#





#18

Methyl Acetate

Concen: 0.47 ug/l

RT: 2.80 min Scan# 363

Delta R.T. 0.02 min

Lab File: VX002934.D

Acq: 27 Jun 2018 14:18

Instrument :

MSVOA_X

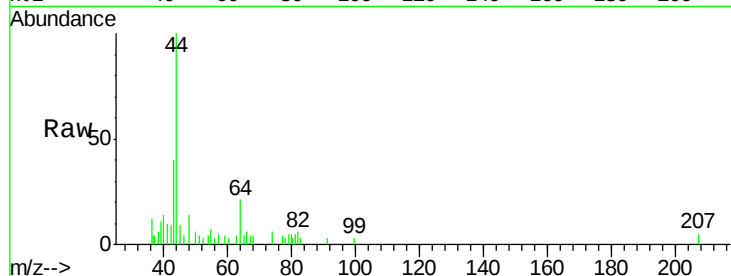
ClientSampleId :

Tot Ion: 43 Resp: 1785

Ion Ratio Lower Upper

43 100

74 13.1 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.80

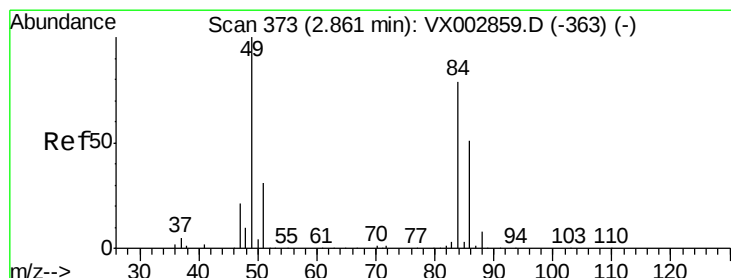
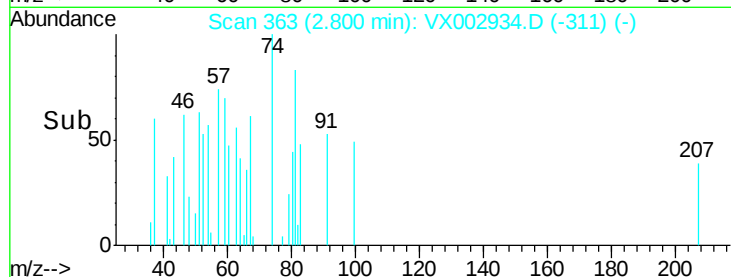
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 0.45 ug/l

RT: 2.85 min Scan# 371

Delta R.T. -0.01 min

Lab File: VX002934.D

Acq: 27 Jun 2018 14:18

Tgt Ion: 84 Resp: 1201

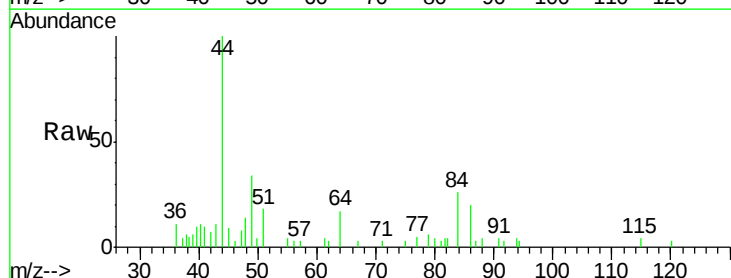
Ion Ratio Lower Upper

84 100

49 120.3 107.8 161.6

51 57.3 32.8 49.2#

86 76.0 52.5 78.7



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

1000

800

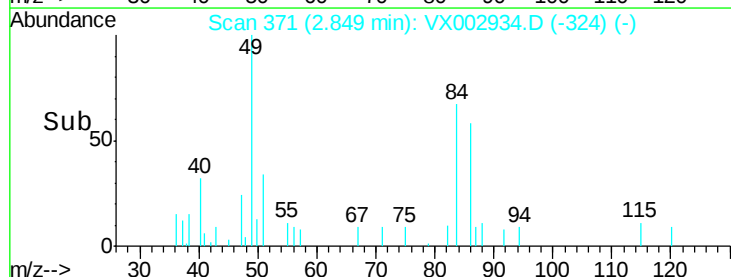
600

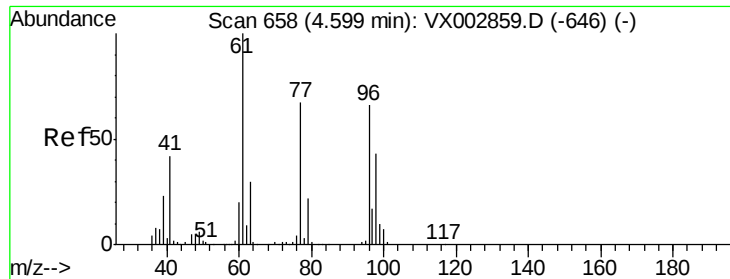
400

200

0

Time-->



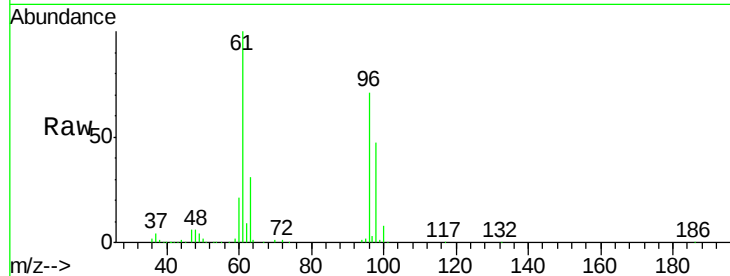


#27

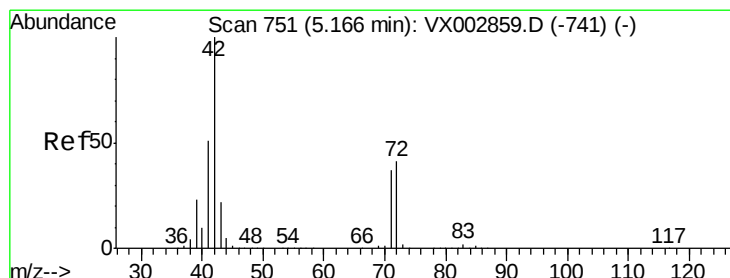
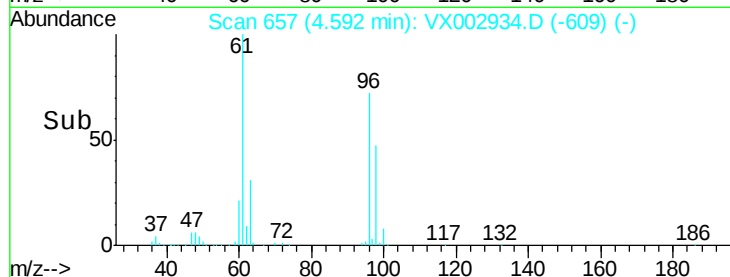
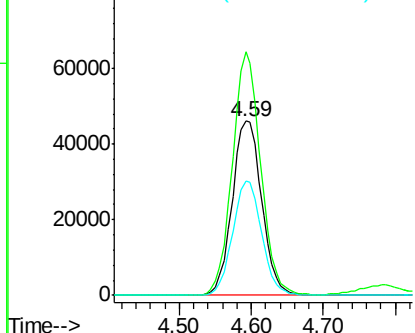
cis-1,2-Dichloroethene
 Concen: 45.73 ug/l
 RT: 4.59 min Scan# 657
 Delta R.T. -0.01 min
 Lab File: VX002934.D
 Acq: 27 Jun 2018 14:18

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	133.1	0.0	330.2
98	64.5	0.0	130.2



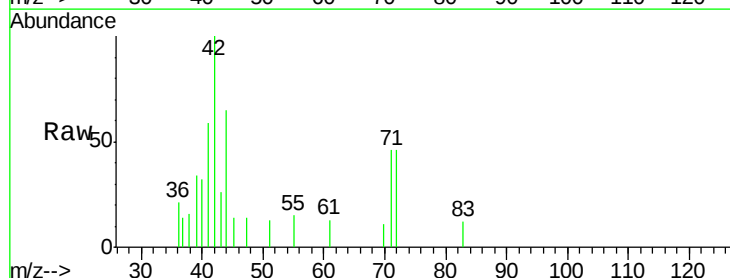
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



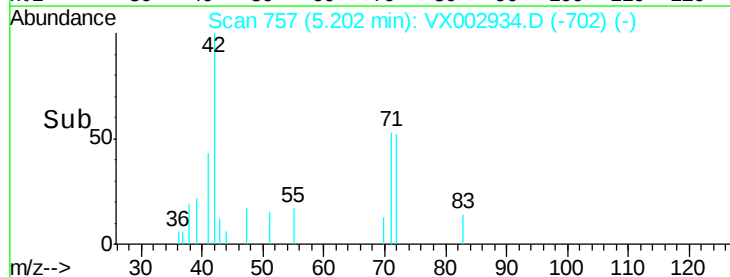
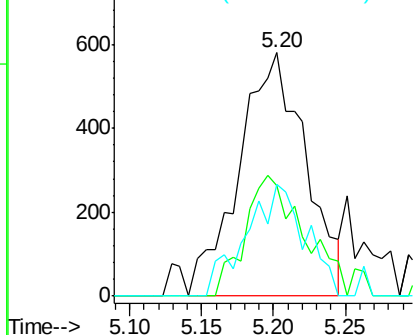
#29

Tetrahydrofuran
 Concen: 1.44 ug/l
 RT: 5.20 min Scan# 757
 Delta R.T. 0.04 min
 Lab File: VX002934.D
 Acq: 27 Jun 2018 14:18

Tgt Ion	Ratio	Lower	Upper
42	100		
72	43.6	32.0	48.0
71	40.8	30.1	45.1



Abundance Ion 42.00 (41.70 to 42.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0
 Ion 71.00 (70.70 to 71.70): VX0

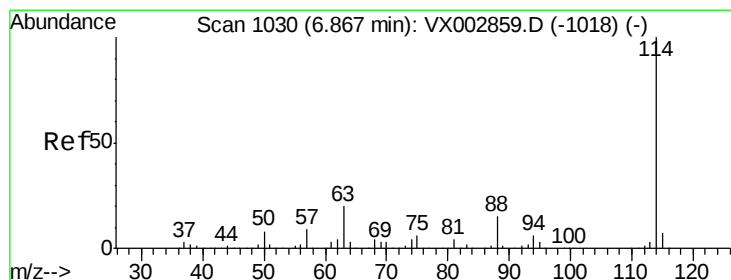
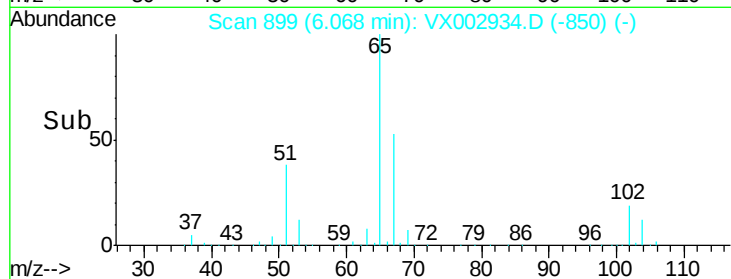
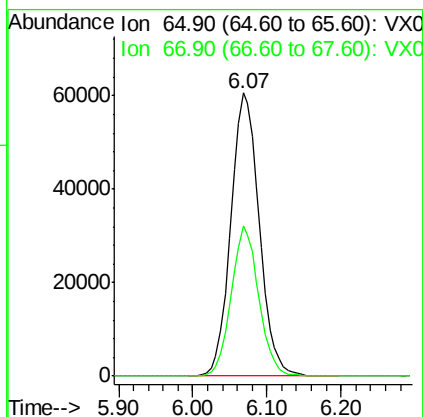
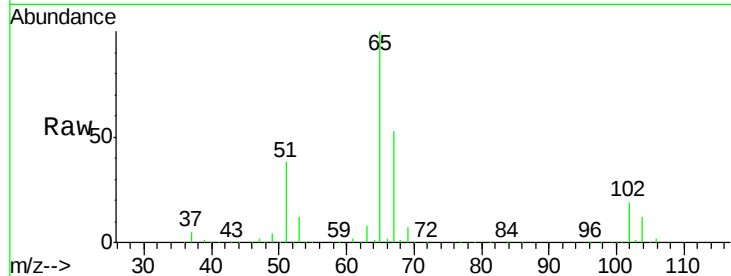




#33
 1,2-Dichloroethane-d4
 Concen: 49.15 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VX002934.D
 Acq: 27 Jun 2018 14:18

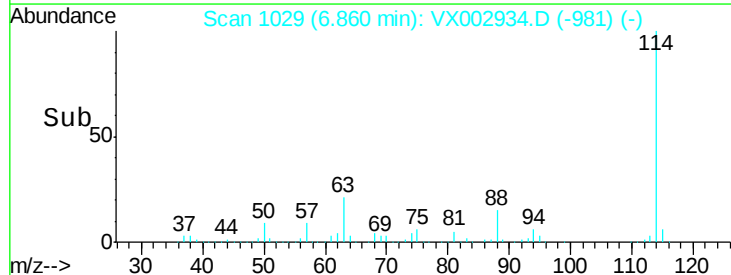
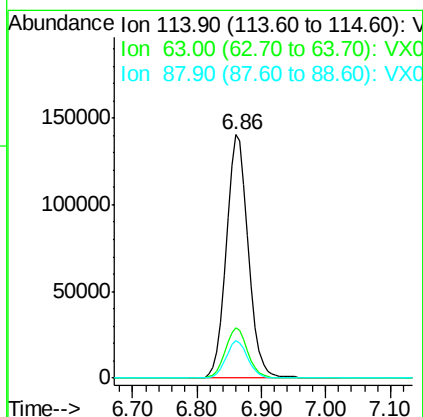
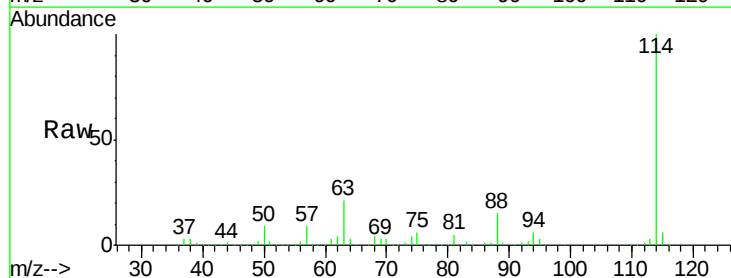
Instrument :
 MSVOA_X
 ClientSampleId :

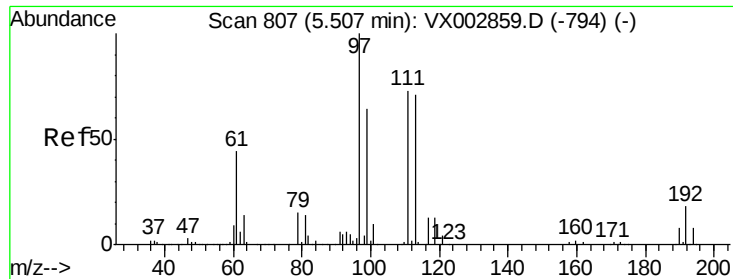
Tot Ion: 65 Resp: 162445
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VX002934.D
 Acq: 27 Jun 2018 14:18

Tgt Ion: 114 Resp: 338192
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 41.4
 88 15.3 0.0 30.0

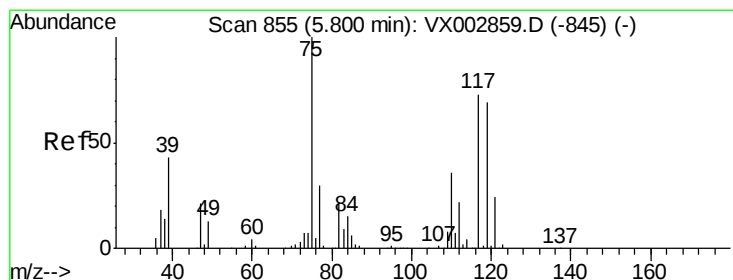
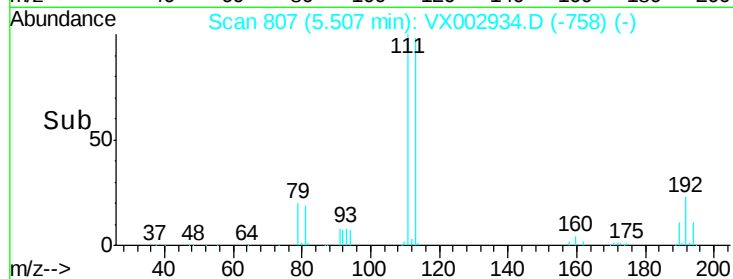
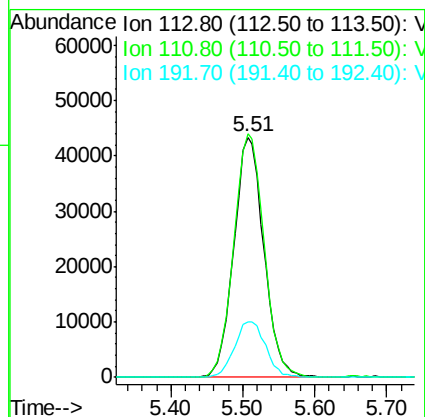
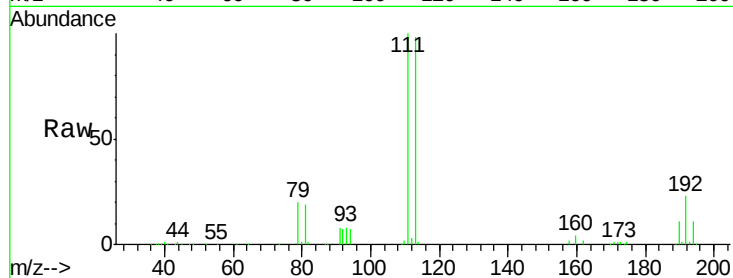




#35
 Dibromofluoromethane
 Concen: 46.84 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002934.D
 Acq: 27 Jun 2018 14:18

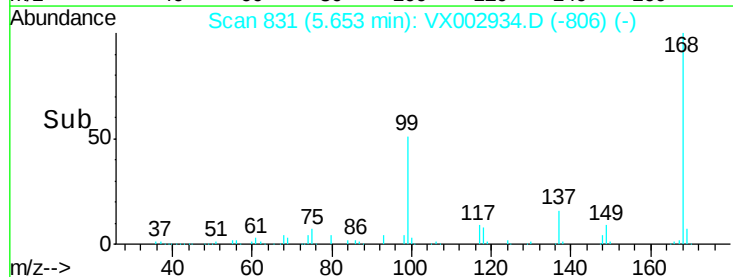
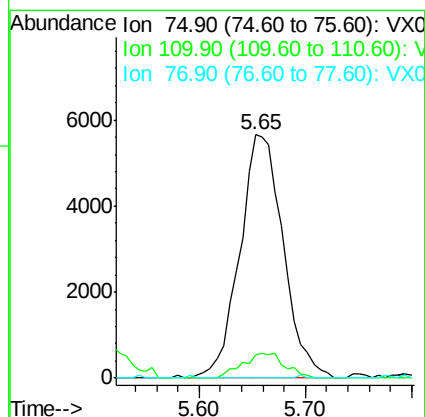
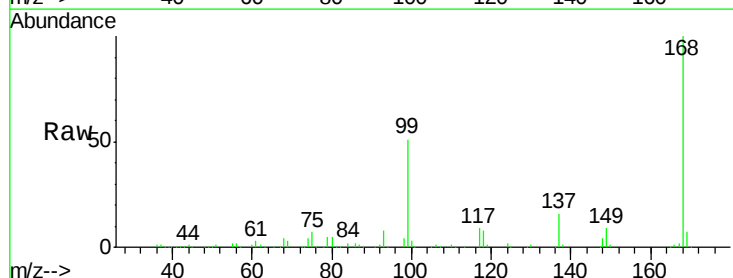
Instrument :
 MSVOA_X
 ClientSampled :

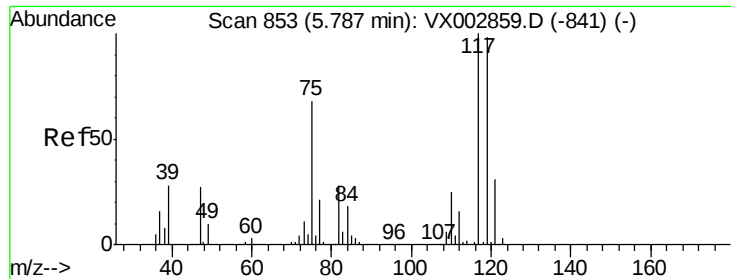
Tot Ion:113 Resp: 125440
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.4 122.0
 192 24.1 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.37 ug/l
 RT: 5.65 min Scan# 831
 Delta R.T. -0.15 min
 Lab File: VX002934.D
 Acq: 27 Jun 2018 14:18

Tgt Ion: 75 Resp: 16191
 Ion Ratio Lower Upper
 75 100
 110 10.0 18.1 54.4#
 77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.47 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002934.D

Acq: 27 Jun 2018 14:18

Instrument :

MSVOA_X

ClientSampleId :

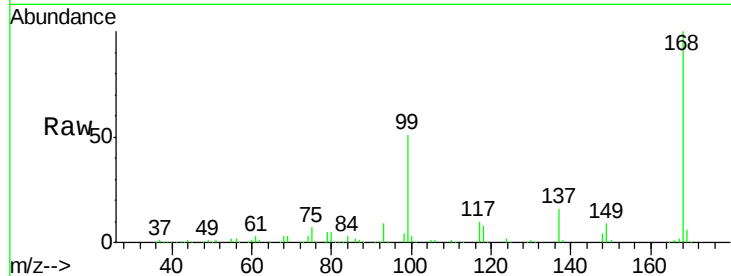
Tot Ion:117 Resp: 22275

Ion Ratio Lower Upper

117 100

119 4.9 77.4 116.0#

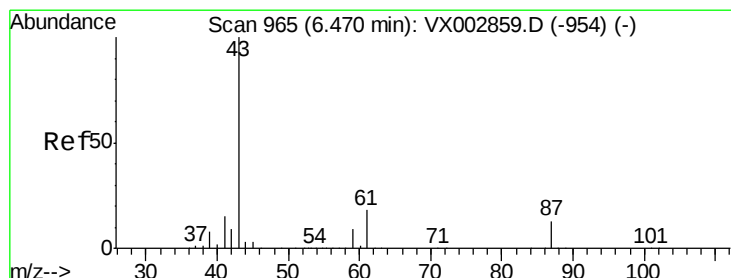
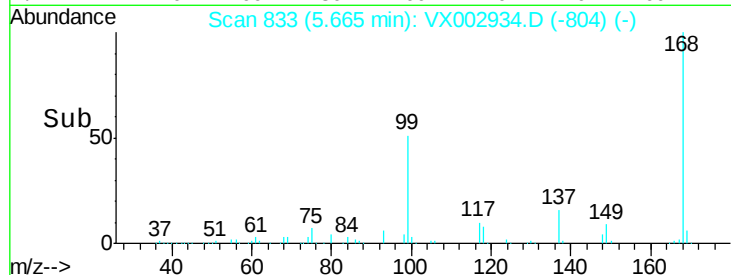
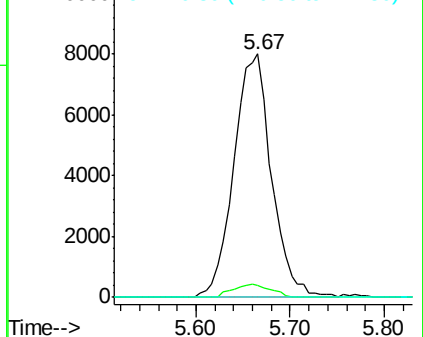
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.20 ug/l

RT: 6.49 min Scan# 968

Delta R.T. 0.02 min

Lab File: VX002934.D

Acq: 27 Jun 2018 14:18

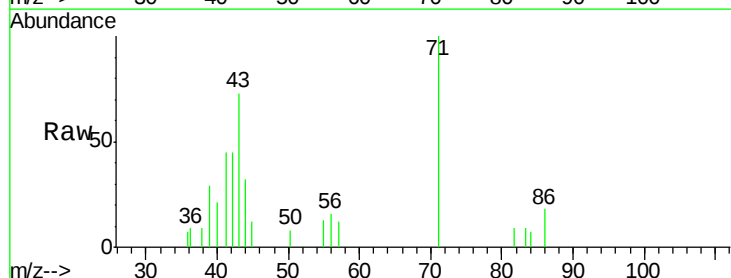
Tgt Ion: 43 Resp: 1346

Ion Ratio Lower Upper

43 100

61 0.0 14.4 21.6#

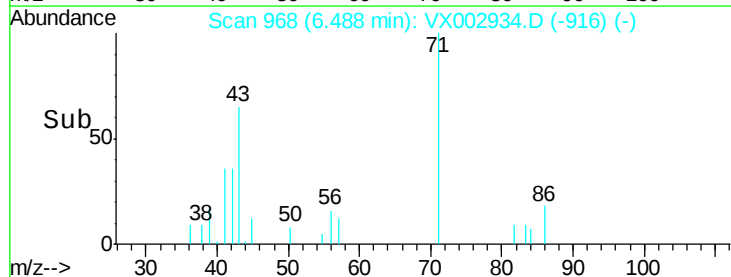
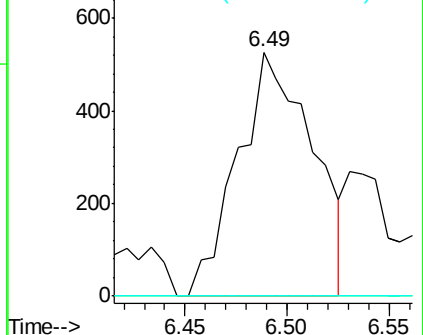
87 0.0 9.5 14.3#

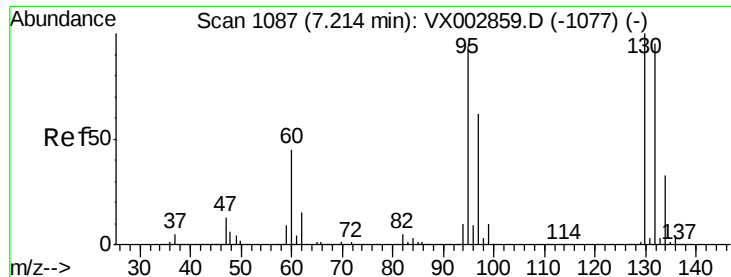


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: 0.23 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX002934.D

Acq: 27 Jun 2018 14:18

Instrument :

MSVOA_X

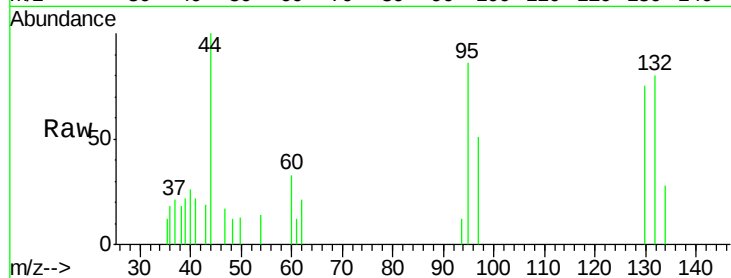
ClientSampleId :

Tot Ion:130 Resp: 742

Ion Ratio Lower Upper

130 100

95 114.3 0.0 185.4

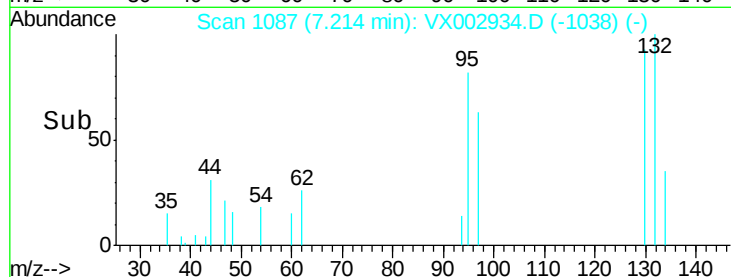


Abundance Ion 129.80 (129.50 to 130.50): V

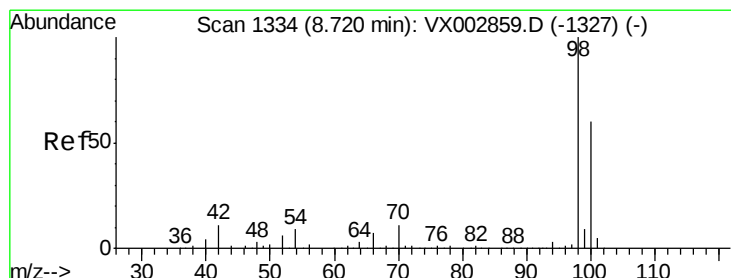
Ion 94.90 (94.60 to 95.60): VX0

7.21

Time-->



Time-->



#50

Toluene-d8

Concen: 49.46 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002934.D

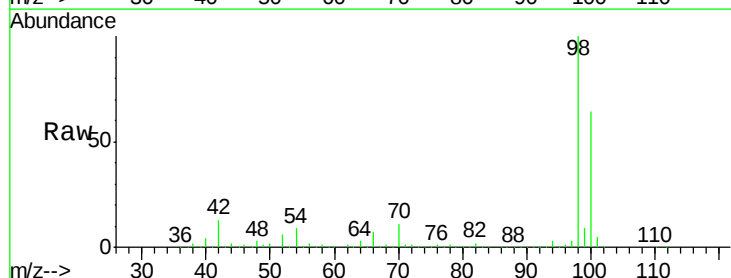
Acq: 27 Jun 2018 14:18

Tgt Ion: 98 Resp: 483735

Ion Ratio Lower Upper

98 100

100 63.0 50.9 76.3

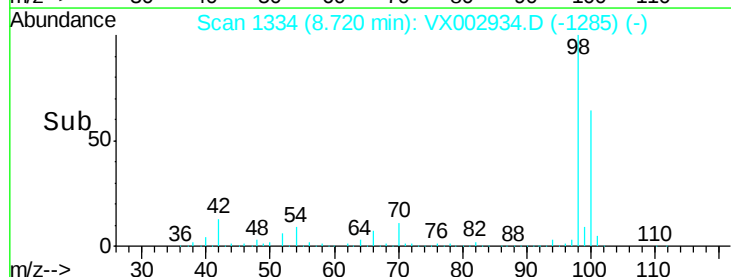


Abundance Ion 98.00 (97.70 to 98.70): VX0

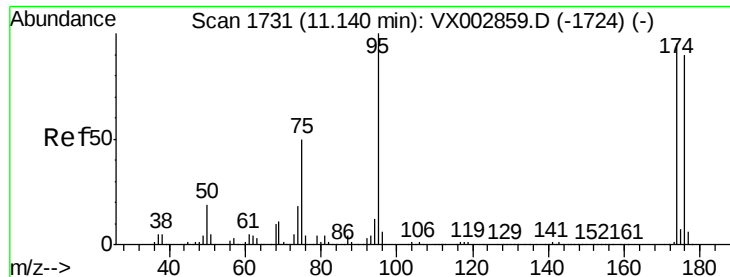
Ion 100.00 (99.70 to 100.70): VX0

8.72

Time-->



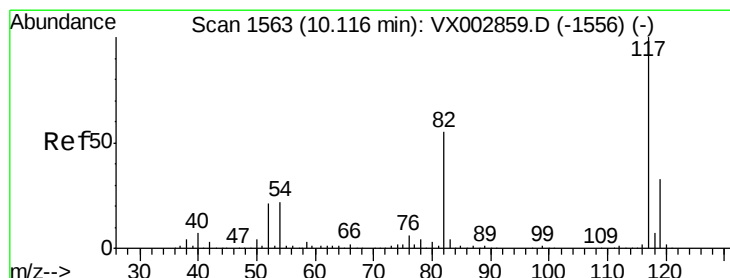
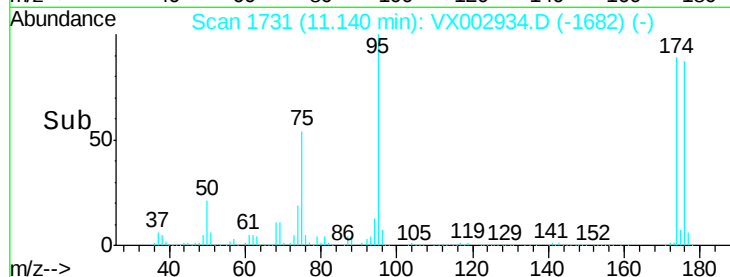
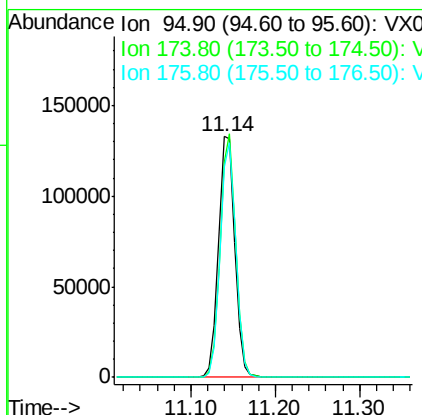
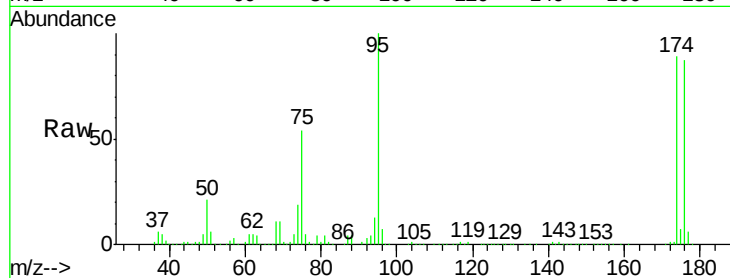
Time-->



#62
4-Bromofluorobenzene
Concen: 47.67 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002934.D
Acq: 27 Jun 2018 14:18

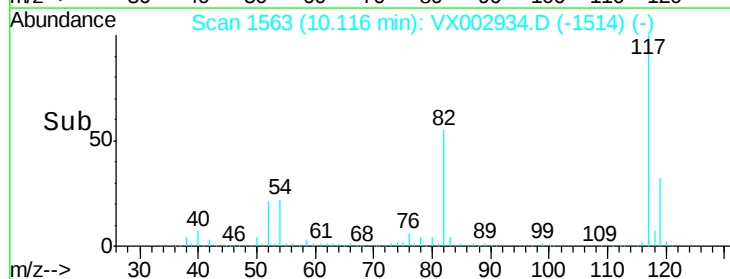
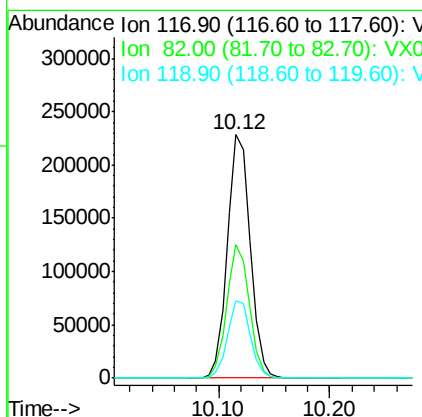
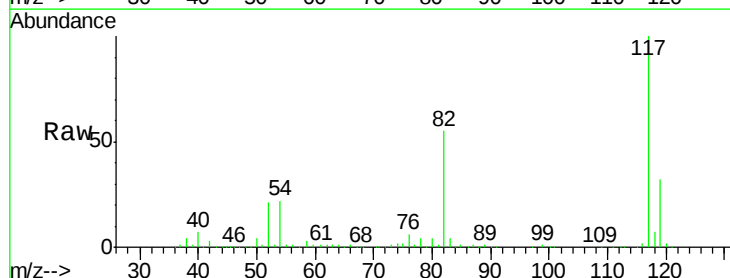
Instrument :
MSVOA_X
ClientSampleId :

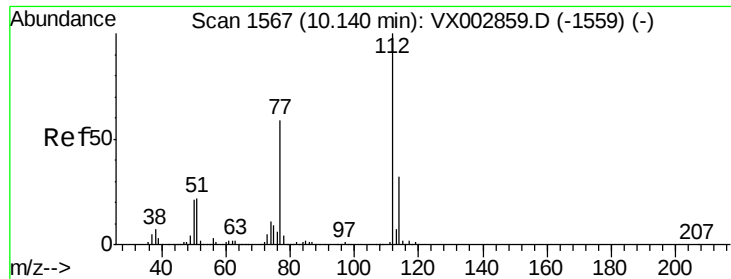
Tot Ion: 95 Resp: 179808
Ion Ratio Lower Upper
95 100
174 95.9 0.0 187.4
176 93.2 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002934.D
Acq: 27 Jun 2018 14:18

Tgt Ion: 117 Resp: 324263
Ion Ratio Lower Upper
117 100
82 55.1 45.0 67.4
119 31.9 25.8 38.6





#65

Chlorobenzene

Concen: 0.78 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX002934.D

Acq: 27 Jun 2018 14:18

Instrument :

MSVOA_X

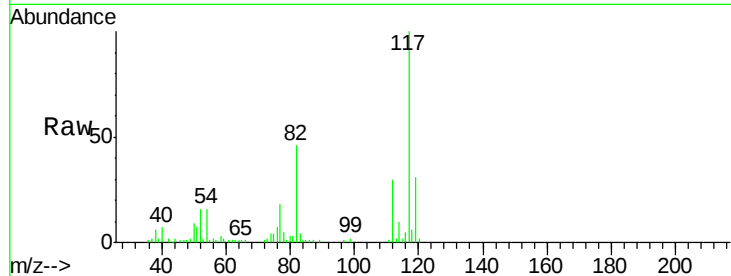
ClientSampled :

Tot Ion:112 Resp: 6413

Ion Ratio Lower Upper

112 100

114 34.6 25.3 37.9

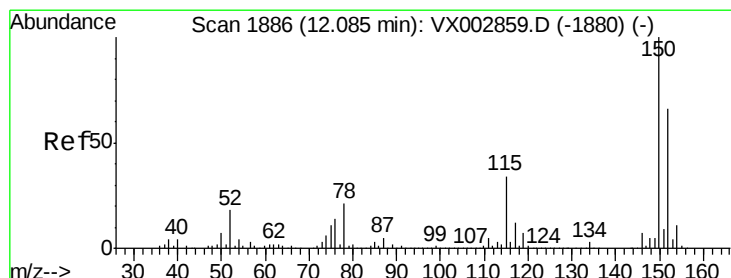
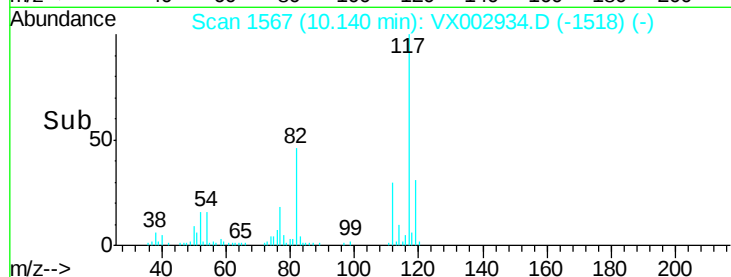


Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

10.14

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002934.D

Acq: 27 Jun 2018 14:18

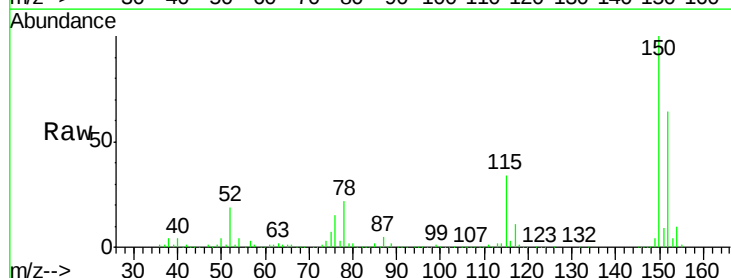
Tgt Ion:152 Resp: 195710

Ion Ratio Lower Upper

152 100

115 54.5 40.1 120.2

150 156.6 0.0 347.2



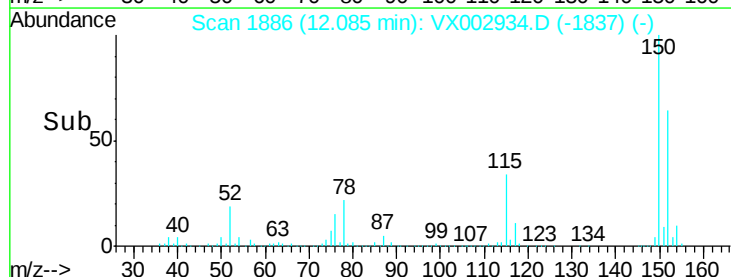
Abundance Ion 151.90 (151.60 to 152.60): V

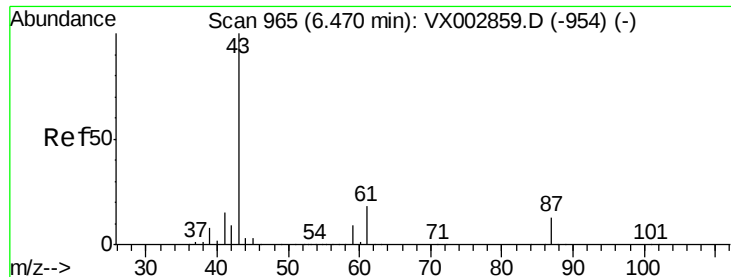
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

12.08

Time-->





#74

N-amvl acetate

Concen: 0.21 ug/l

RT: 6.49 min Scan# 968

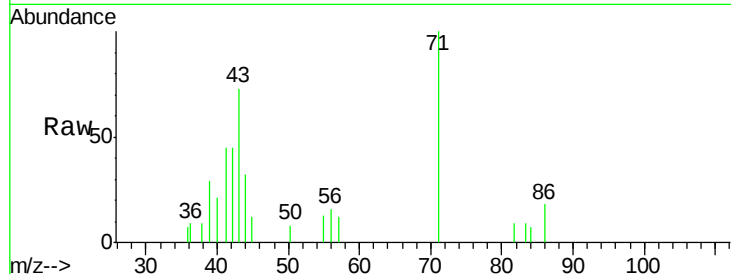
Delta R.T. 0.02 min

Lab File: VX002934.D

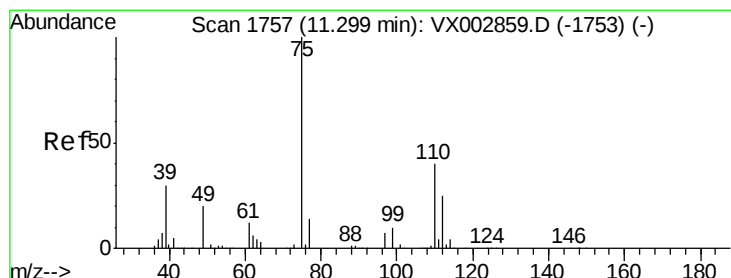
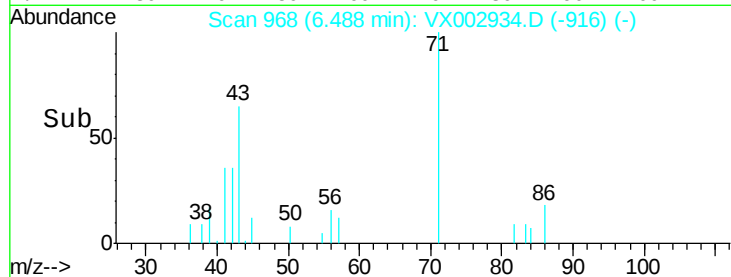
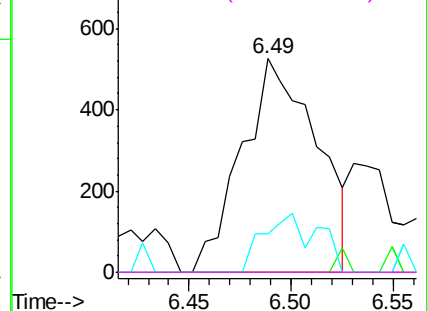
Acq: 27 Jun 2018 14:18

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	43	Resp:	1346
Ion	Ratio	Lower	Upper
43	100		
70	0.0	0.0	0.0
55	19.9	0.0	0.0#
61	0.0	14.4	21.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 26.69 ug/l

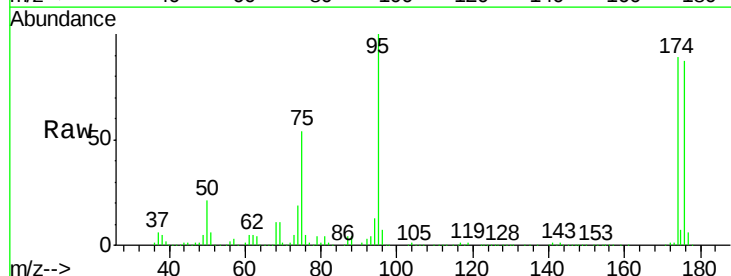
RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

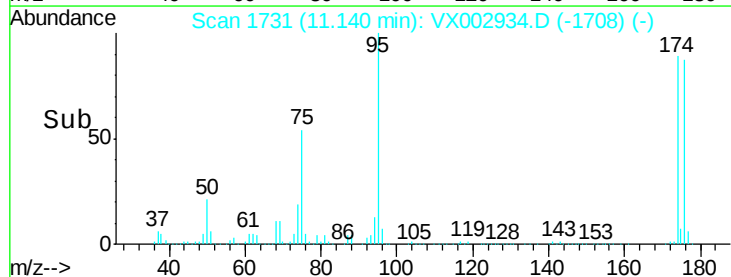
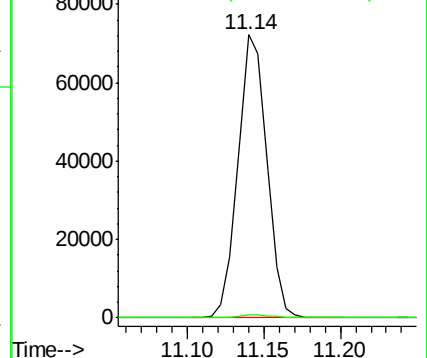
Lab File: VX002934.D

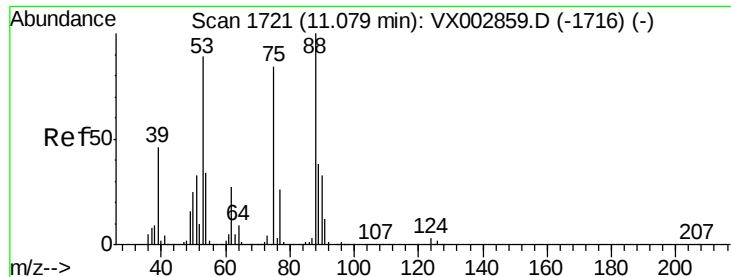
Acq: 27 Jun 2018 14:18

Tgt Ion:	75	Resp:	94632
Ion	Ratio	Lower	Upper
75	100		
77	1.4	22.8	68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0

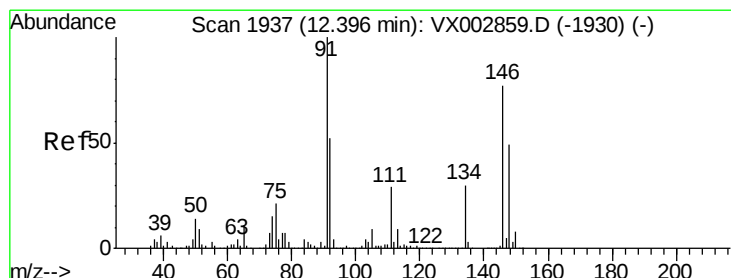
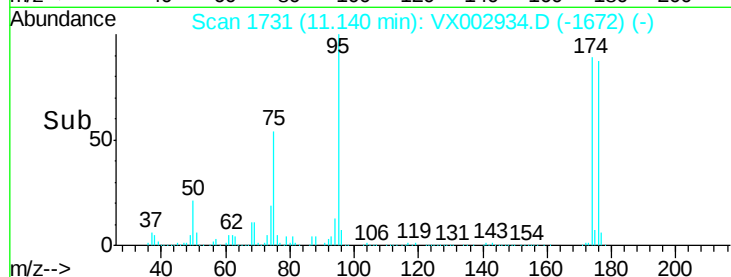
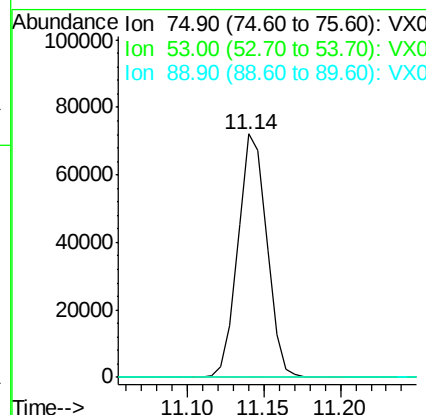
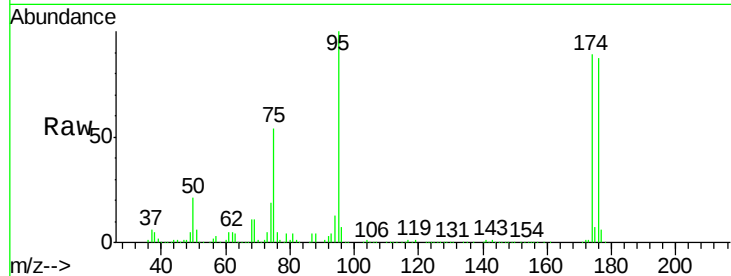




#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.61 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002934.D
 Acq: 27 Jun 2018 14:18

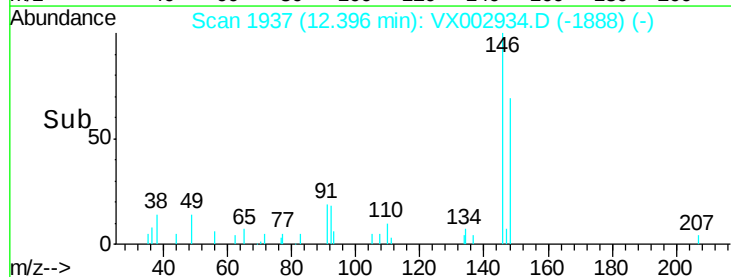
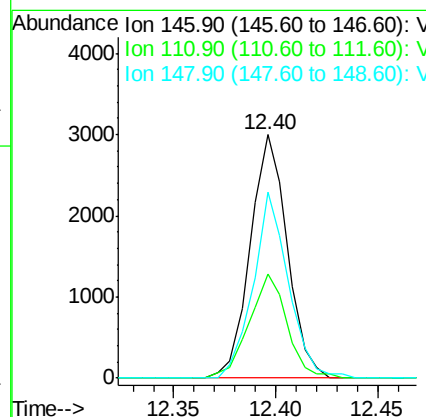
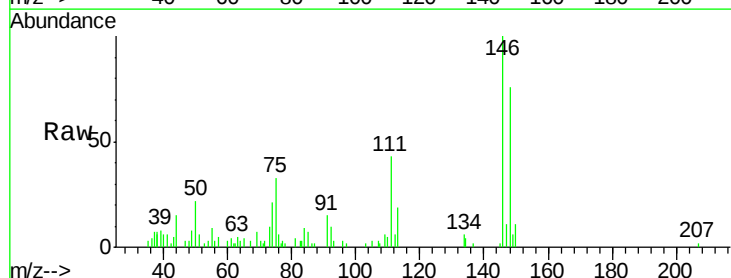
Instrument :
 MSVOA_X
 ClientSampled :

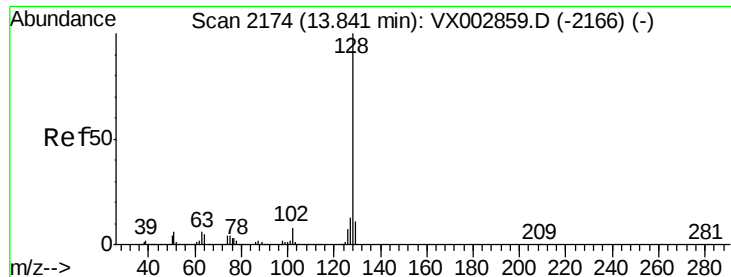
Tot Ion: 75 Resp: 94632
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#



#91
 1,2-Dichlorobenzene
 Concen: 0.55 ug/l
 RT: 12.40 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VX002934.D
 Acq: 27 Jun 2018 14:18

Tgt Ion: 146 Resp: 3780
 Ion Ratio Lower Upper
 146 100
 111 44.0 19.4 58.1
 148 73.1 31.7 95.1

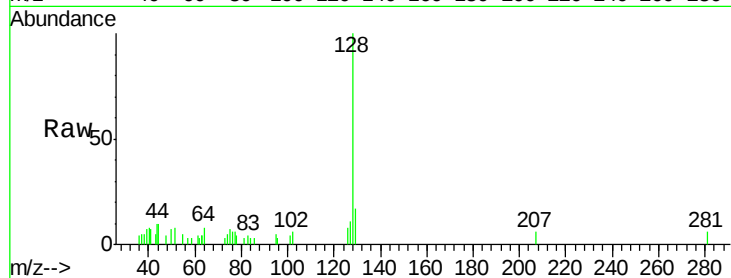




#95
Naphthalene
Concen: 0.21 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VX002934.D
Acq: 27 Jun 2018 14:18

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:128 Resp: 2783
Ion Ratio Lower Upper
128 100
127 14.3 10.4 15.6
129 17.3 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

