

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX053119\
 Data File : VX009982.D
 Acq On : 31 May 2019 14:03
 Operator : JC/SP
 Sample : K2964-05 20X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 13818

Quant Time: May 31 14:48:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	175352	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	283254	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	254959	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	114830	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	118906	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	
35) Dibromofluoromethane	5.49	113	86845	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
50) Toluene-d8	8.71	98	359504	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
62) 4-Bromofluorobenzene	11.13	95	125118	48.17	ug/l	0.00
Spiked Amount			Recovery	=	96.34%	

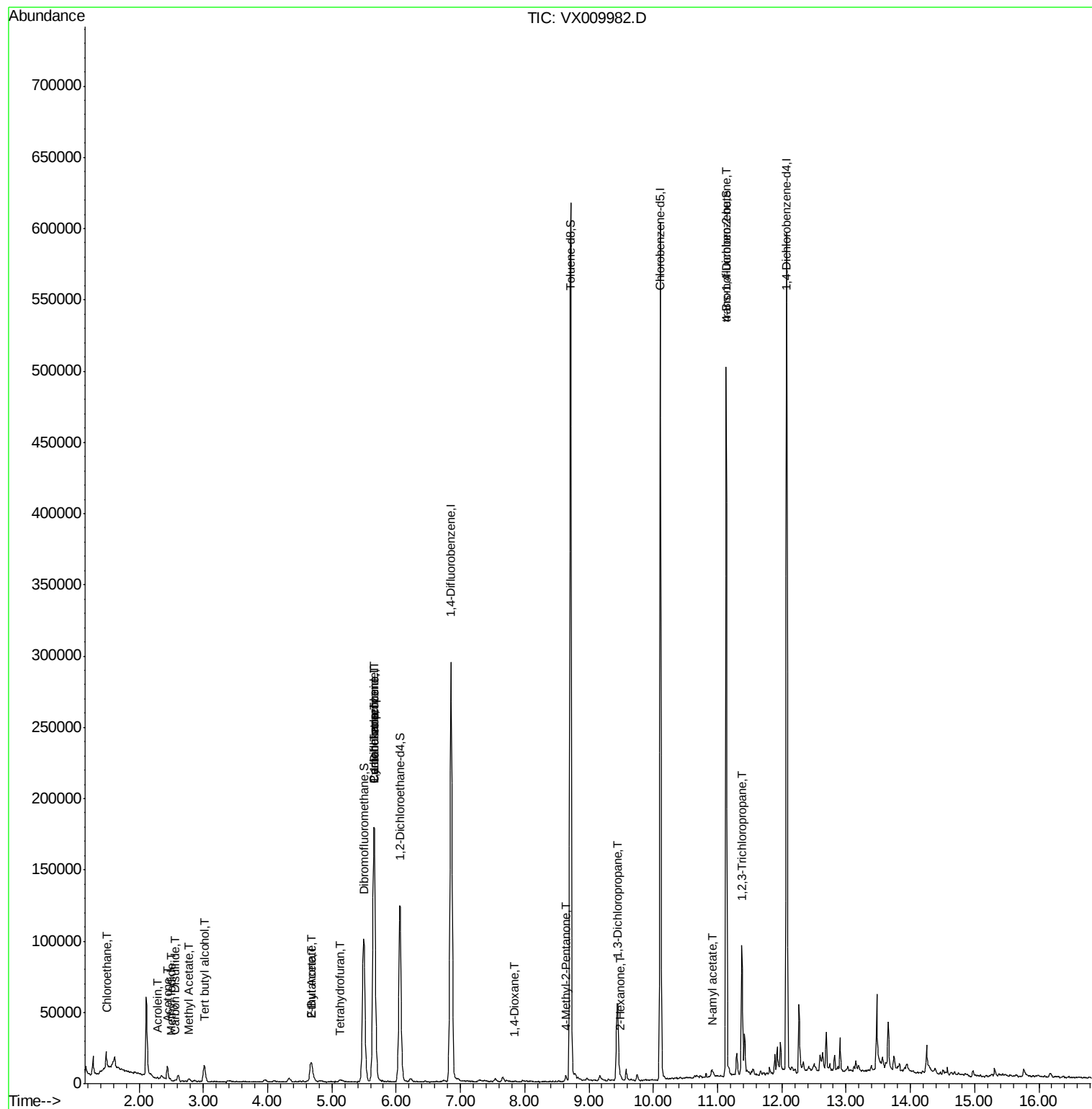
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.50	64	3850	2.408	ug/l #	49
10) Methyl Iodide	2.50	142	78	4.690	ug/l #	42
11) Tert butyl alcohol	3.01	59	7208	11.824	ug/l #	79
13) Acrolein	2.28	56	42	21.186	ug/l #	1
16) Acetone	2.44	43	10893	7.611	ug/l	96
17) Carbon Disulfide	2.56	76	1375	0.638	ug/l	99
18) Methyl Acetate	2.78	43	2616	0.786	ug/l	97
25) 2-Butanone	4.68	43	20463	9.177	ug/l	96
29) Tetrahydrofuran	5.12	42	290	0.203	ug/l #	39
31) Cyclohexane	5.65	56	4197	1.113	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14182	4.935	ug/l #	50
37) Ethyl Acetate	4.68	43	20463	5.110	ug/l #	71
38) Carbon Tetrachloride	5.65	117	16401	6.604	ug/l #	17
49) 1,4-Dioxane	7.83	88	40	0.672	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	2939	0.699	ug/l	98
57) 1,3-Dichloropropane	9.44	76	1179	0.315	ug/l #	77
59) 2-Hexanone	9.49	43	1490	0.460	ug/l	91
74) N-amyl acetate	10.92	43	1802	0.356	ug/l #	62
76) 1,2,3-Trichloropropane	11.38	75	2950	1.074	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.13	75	65186	58.734	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009982.D

Acq: 31 May 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

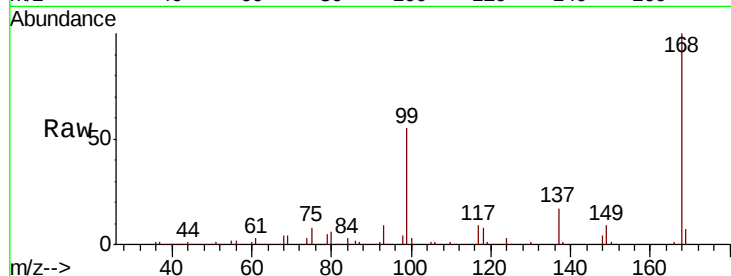
13818

Tgt Ion:168 Resp: 175352

Ion Ratio Lower Upper

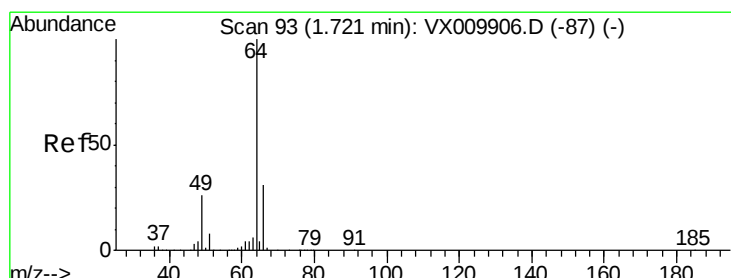
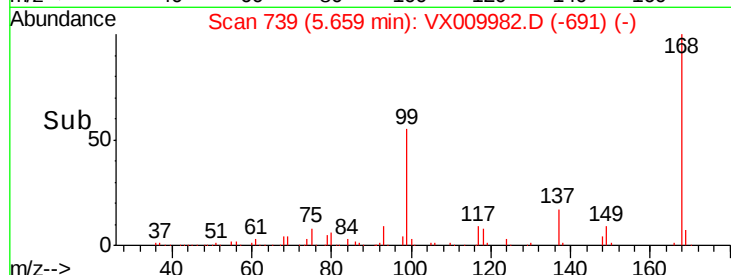
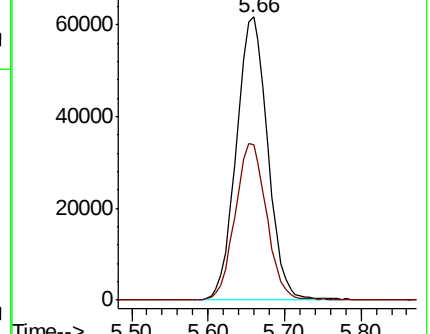
168 100

99 55.0 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: 2.408 ug/l

RT: 1.50 min Scan# 57

Delta R.T. -0.22 min

Lab File: VX009982.D

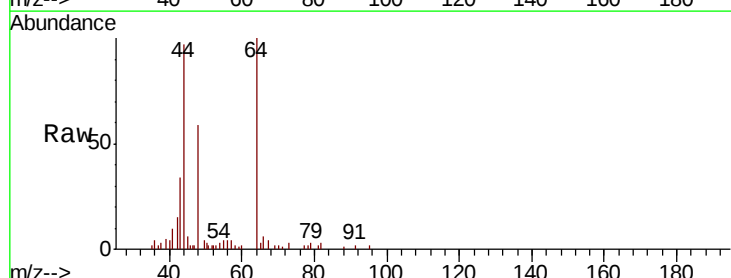
Acq: 31 May 2019 14:03

Tgt Ion: 64 Resp: 3850

Ion Ratio Lower Upper

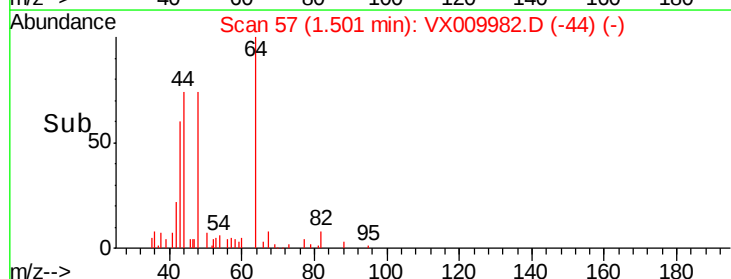
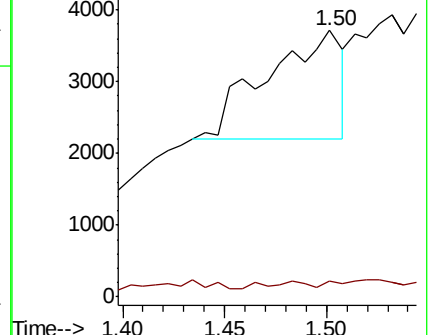
64 100

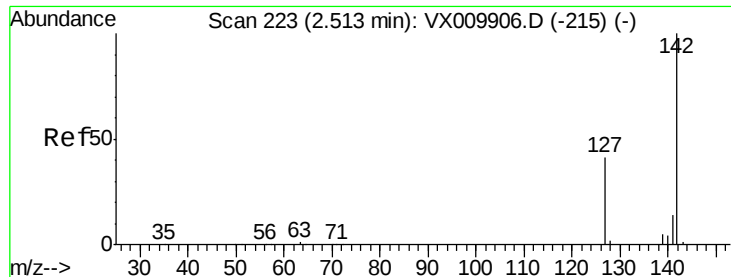
66 3.1 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

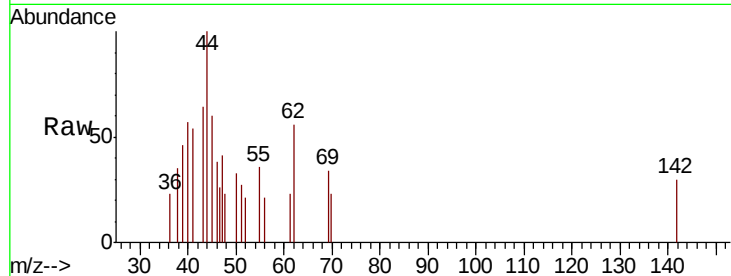




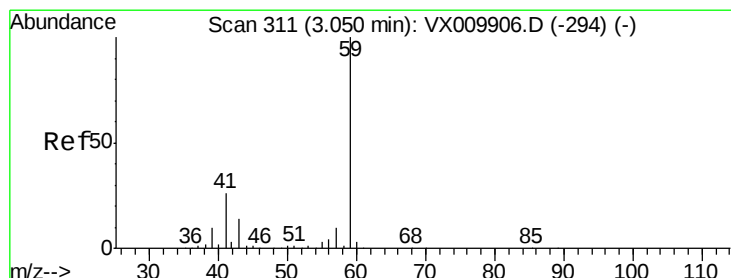
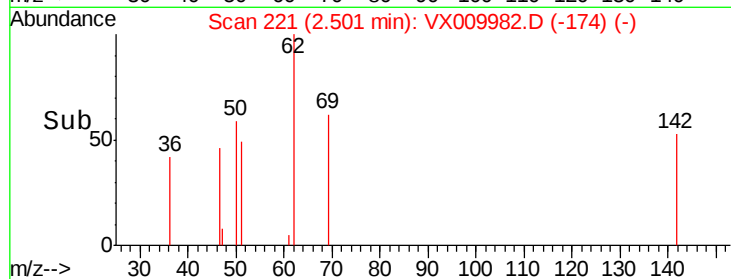
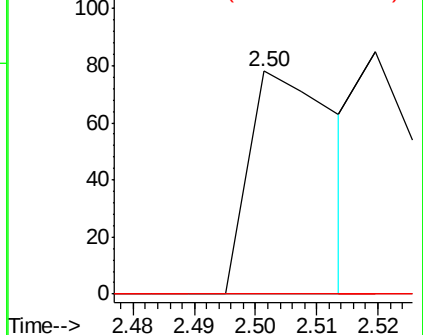
#10
Methyl Iodide
Concen: 4.690 ug/l
RT: 2.50 min Scan# 221
Delta R.T. -0.01 min
Lab File: VX009982.D
Acq: 31 May 2019 14:03

Instrument :
MSVOA_X
ClientSampleId :
13818

Tgt Ion: 142 Resp: 78
Ion Ratio Lower Upper
142 100
127 0.0 33.0 49.4#
141 0.0 11.4 17.0#

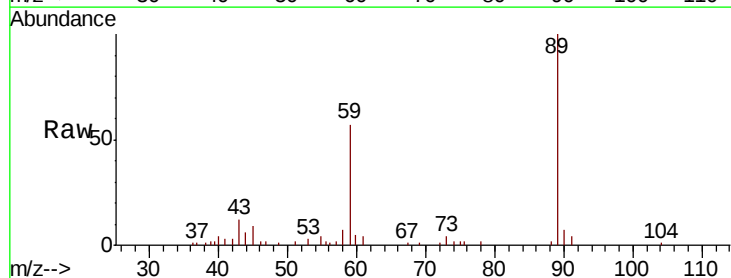


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

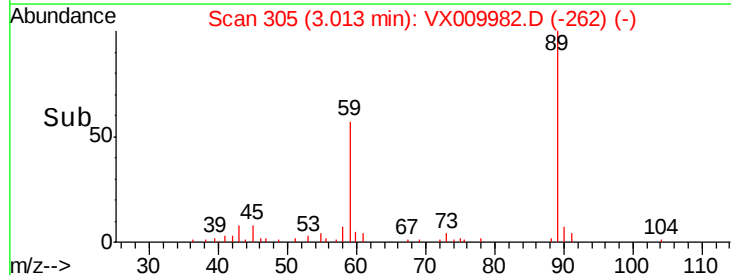
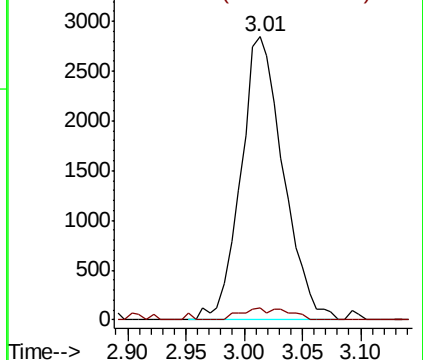


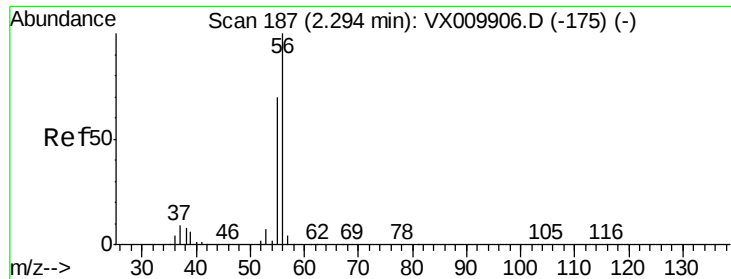
#11
Tert butyl alcohol
Concen: 11.824 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX009982.D
Acq: 31 May 2019 14:03

Tgt Ion: 59 Resp: 7208
Ion Ratio Lower Upper
59 100
57 2.6 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 21.186 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX009982.D

Acq: 31 May 2019 14:03

Instrument :

MSVOA_X

ClientSampled :

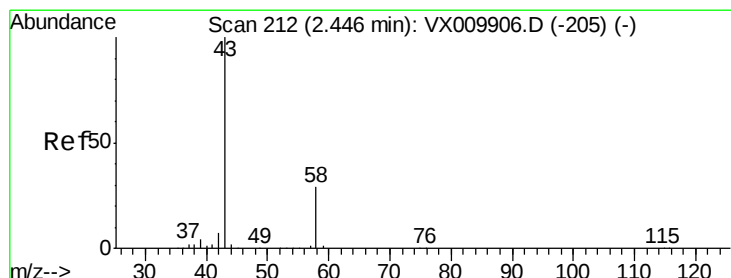
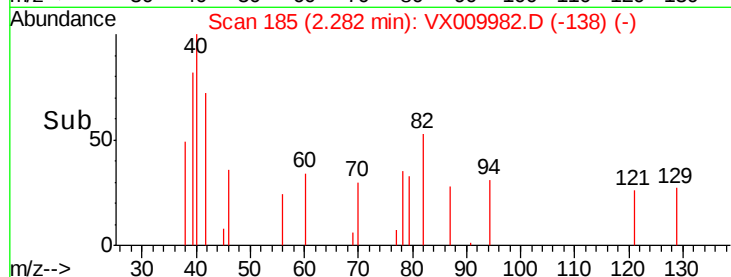
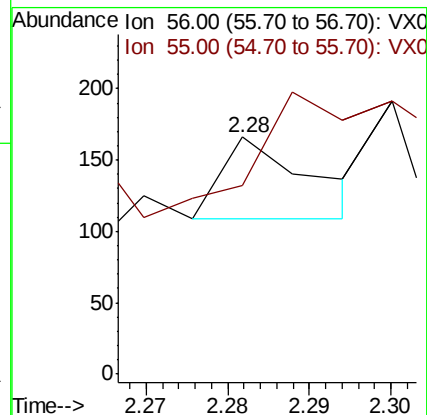
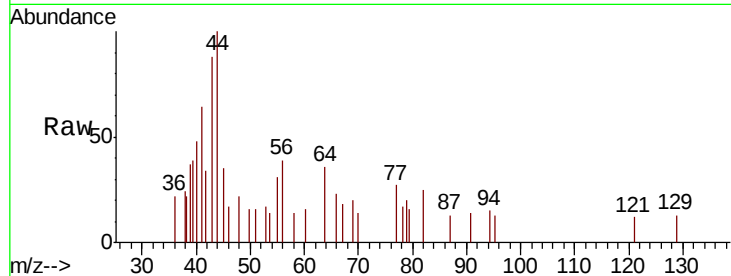
13818

Tgt Ion: 56 Resp: 42

Ion Ratio Lower Upper

56 100

55 359.5 57.0 85.4#



#16

Acetone

Concen: 7.611 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009982.D

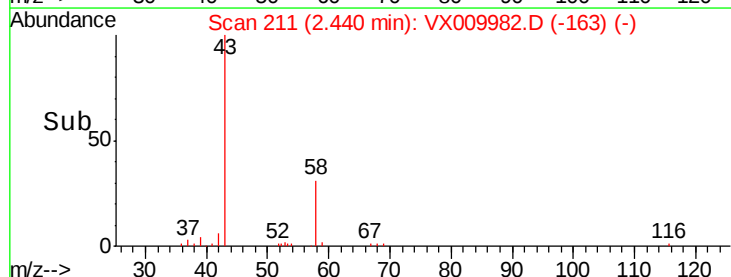
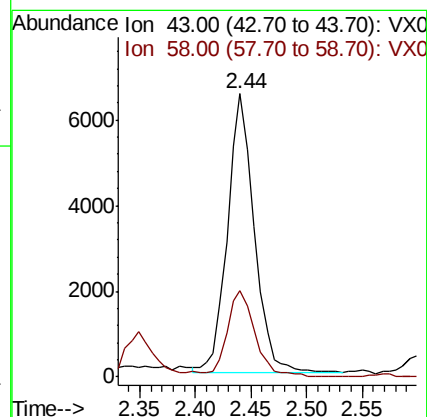
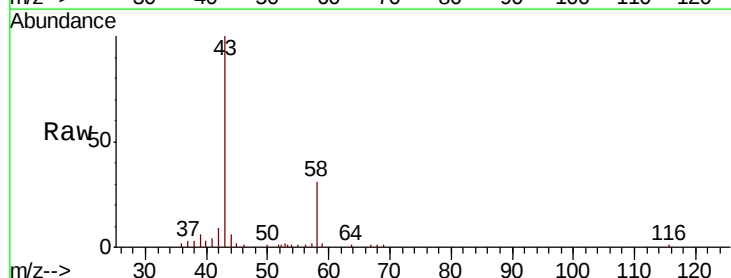
Acq: 31 May 2019 14:03

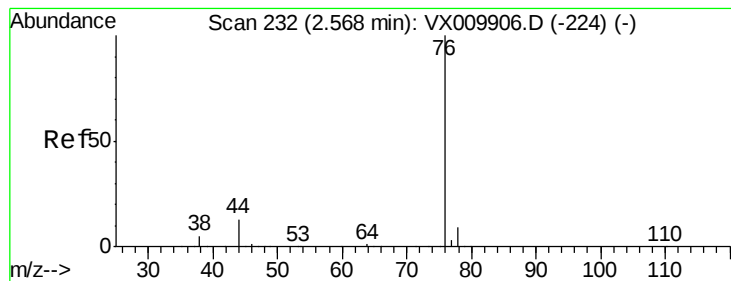
Tgt Ion: 43 Resp: 10893

Ion Ratio Lower Upper

43 100

58 31.0 23.2 34.8





#17

Carbon Disulfide

Concen: 0.638 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX009982.D

Acq: 31 May 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

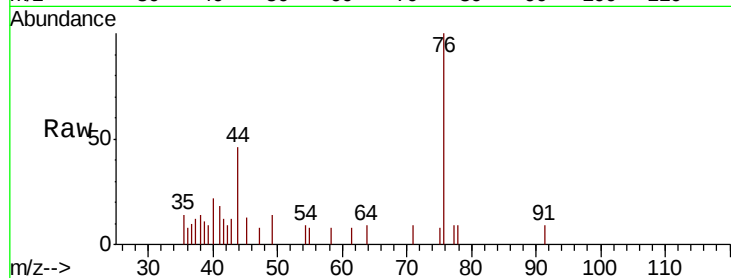
13818

Tgt Ion: 76 Resp: 1375

Ion Ratio Lower Upper

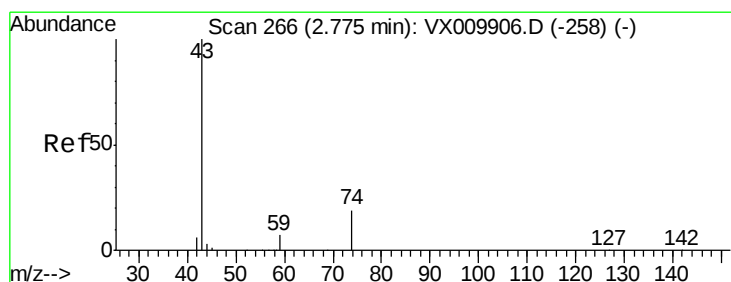
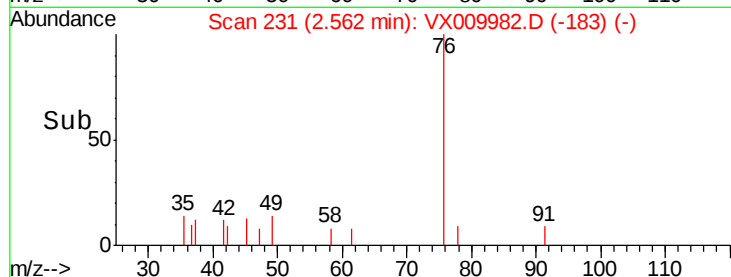
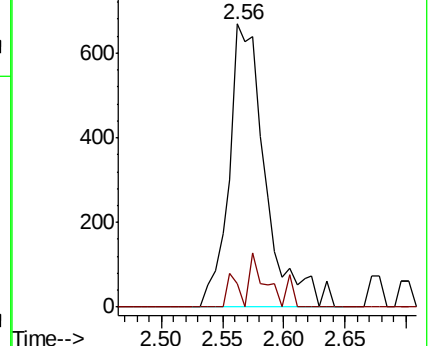
76 100

78 8.5 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.786 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX009982.D

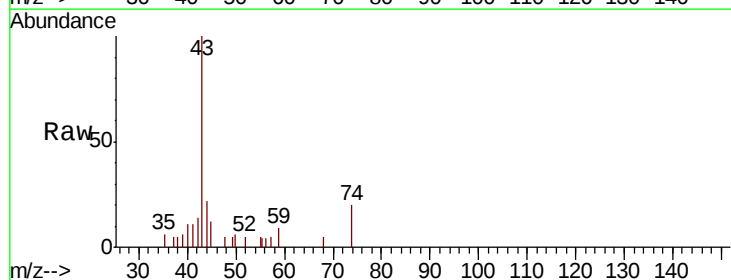
Acq: 31 May 2019 14:03

Tgt Ion: 43 Resp: 2616

Ion Ratio Lower Upper

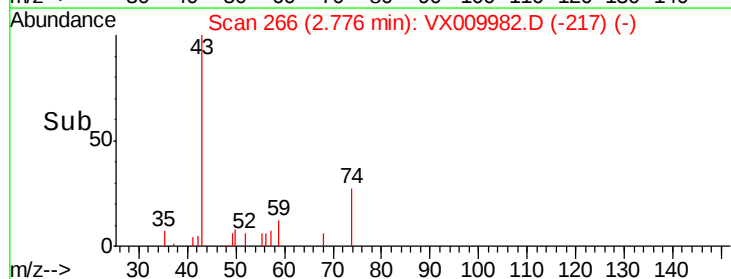
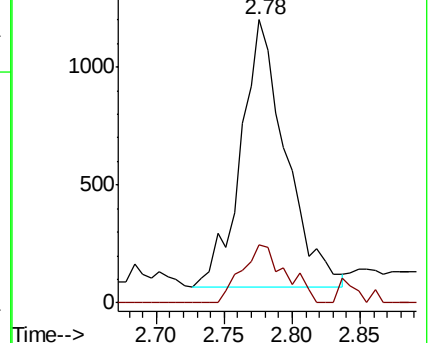
43 100

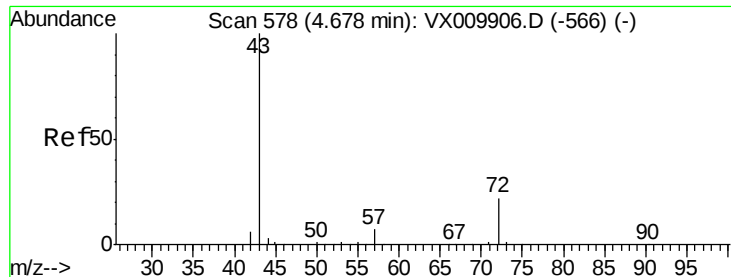
74 21.2 15.8 23.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#25

2-Butanone

Concen: 9.177 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.00 min

Lab File: VX009982.D

Acq: 31 May 2019 14:03

Instrument :

MSVOA_X

ClientSampled :

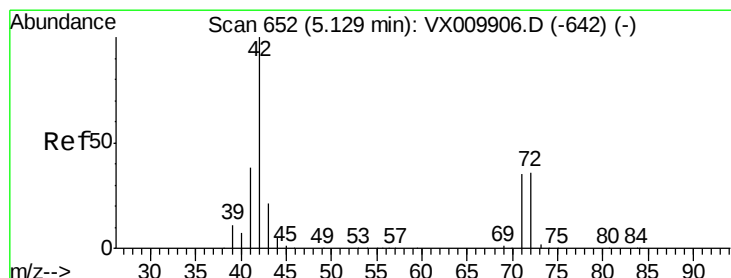
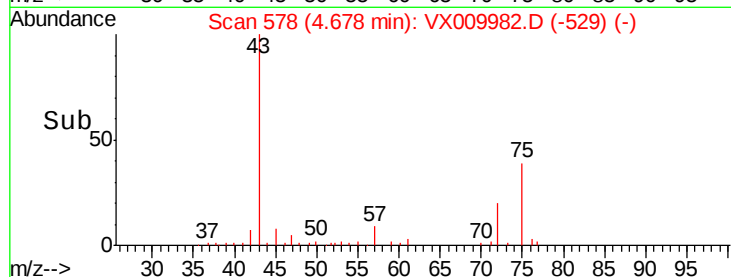
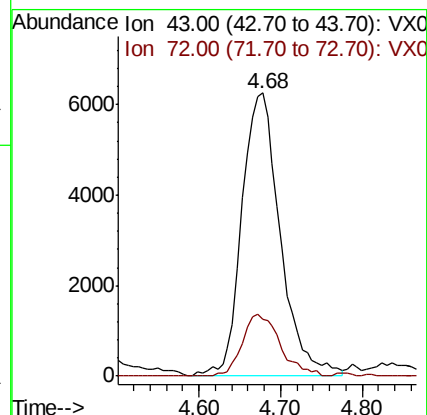
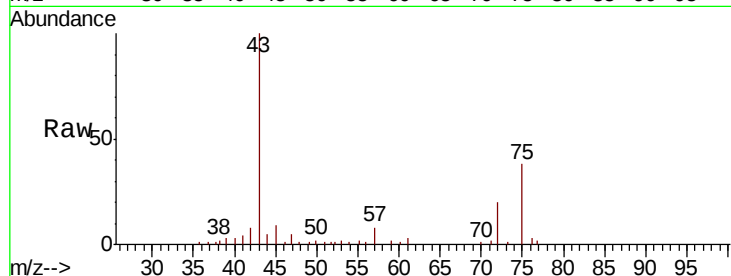
13818

Tgt Ion: 43 Resp: 20463

Ion Ratio Lower Upper

43 100

72 20.0 17.5 26.3



#29

Tetrahydrofuran

Concen: 0.203 ug/l

RT: 5.12 min Scan# 651

Delta R.T. -0.01 min

Lab File: VX009982.D

Acq: 31 May 2019 14:03

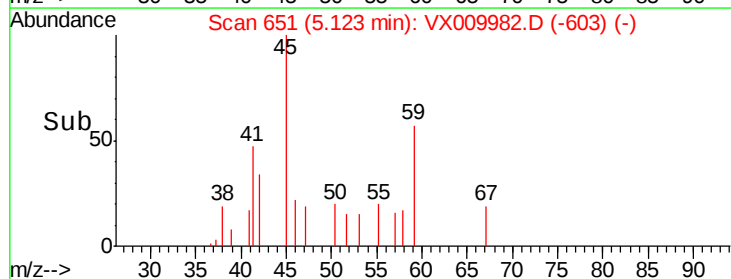
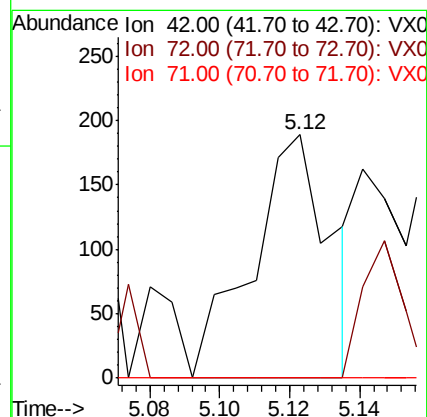
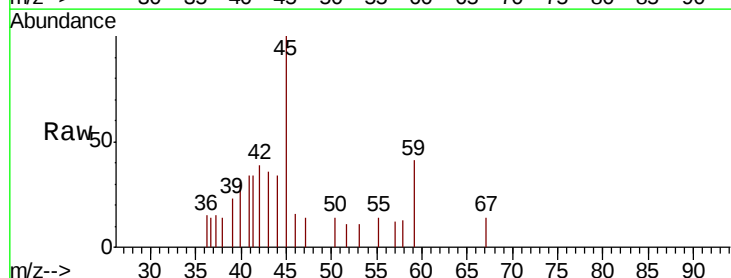
Tgt Ion: 42 Resp: 290

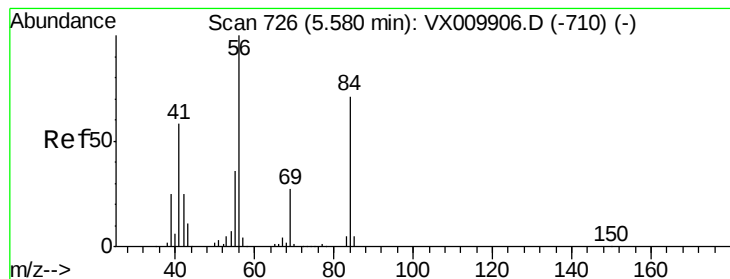
Ion Ratio Lower Upper

42 100

72 0.0 29.2 43.8#

71 0.0 27.6 41.4#





#31

Cyclohexane

Concen: 1.113 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX009982.D

Acq: 31 May 2019 14:03

Instrument :

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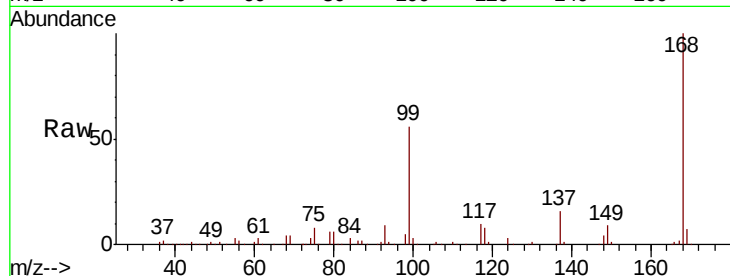
Tgt Ion: 56 Resp: 4197

Ion Ratio Lower Upper

56 100

69 150.6 21.6 32.4#

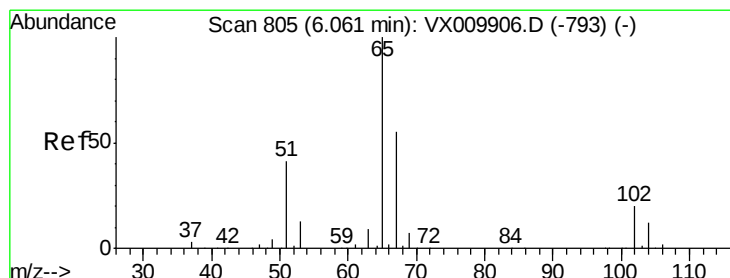
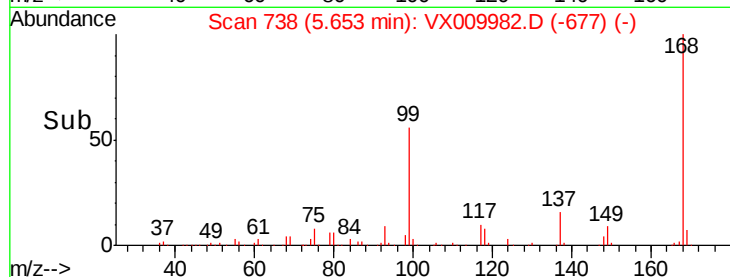
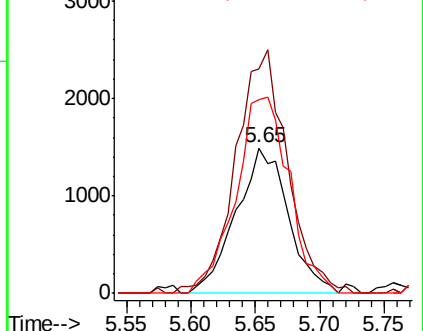
84 132.9 56.8 85.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.004 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009982.D

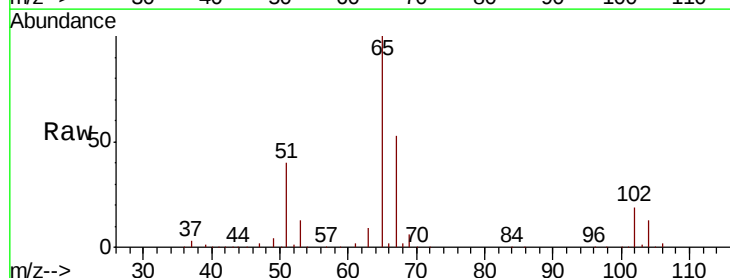
Acq: 31 May 2019 14:03

Tgt Ion: 65 Resp: 118906

Ion Ratio Lower Upper

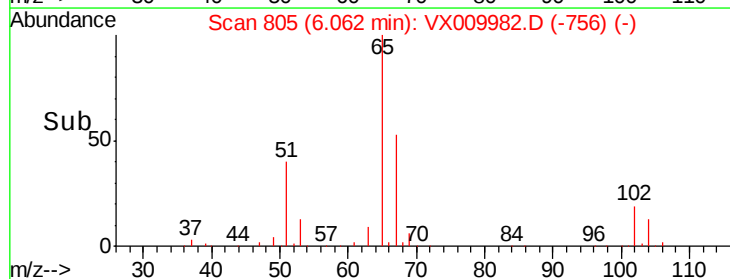
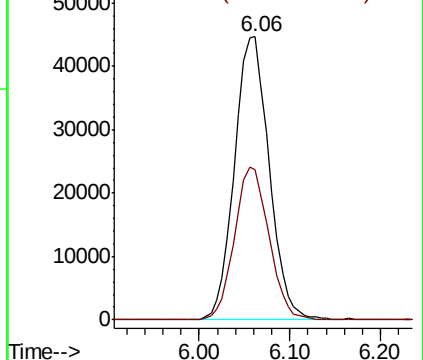
65 100

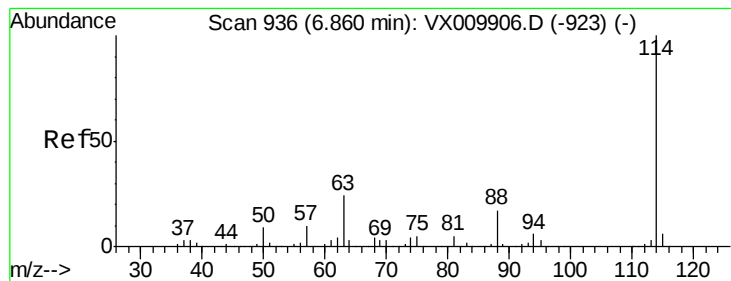
67 53.6 0.0 108.4



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: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX009982.D

Acq: 31 May 2019 14:03

Instrument :

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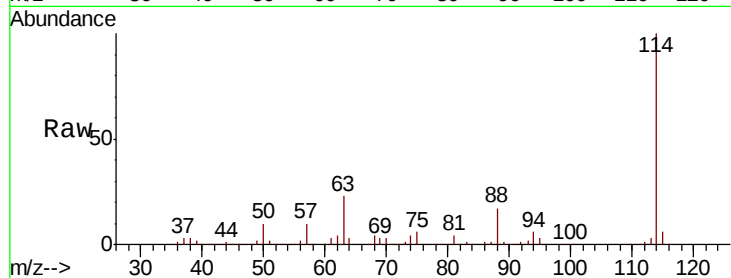
Tgt Ion:114 Resp: 283254

Ion Ratio Lower Upper

114 100

63 22.8 0.0 47.4

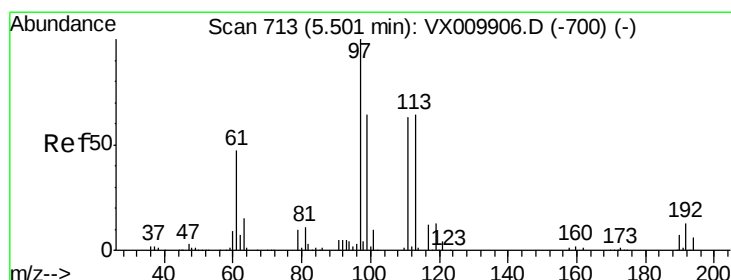
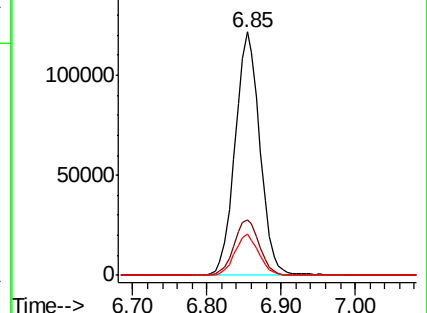
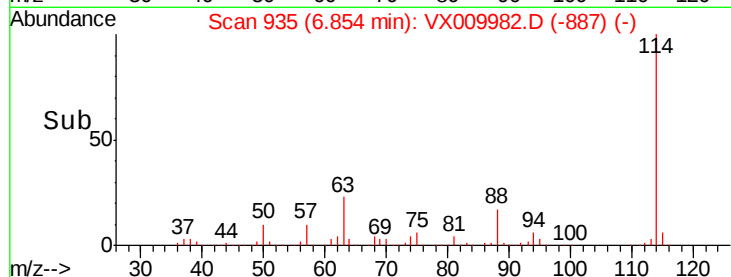
88 16.8 0.0 33.0



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



#35

Dibromofluoromethane

Concen: 48.767 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX009982.D

Acq: 31 May 2019 14:03

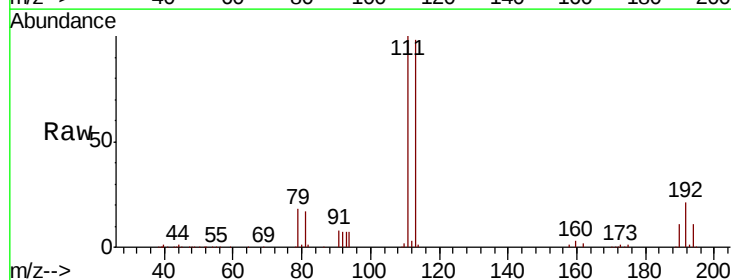
Tgt Ion:113 Resp: 86845

Ion Ratio Lower Upper

113 100

111 101.6 82.2 123.2

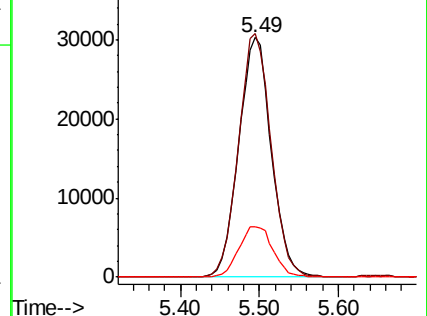
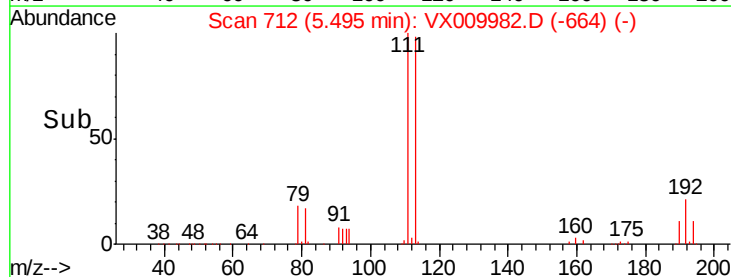
192 22.0 17.1 25.7

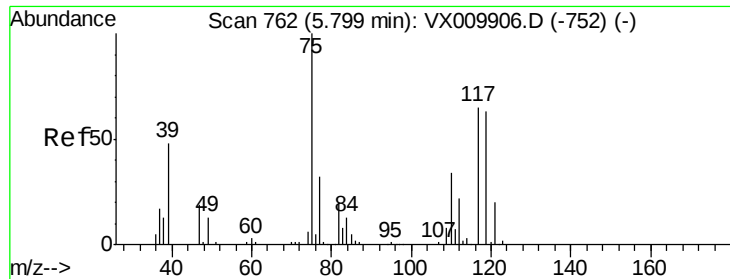


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

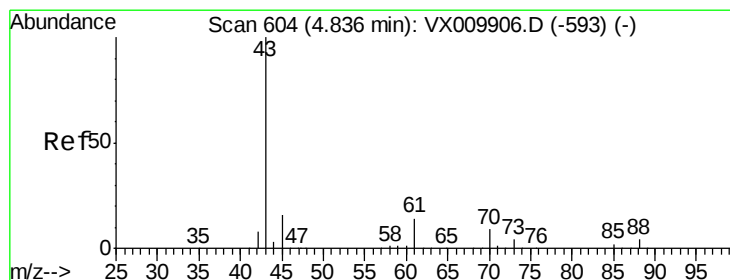
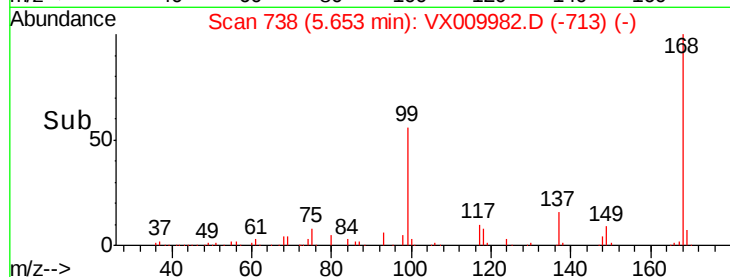
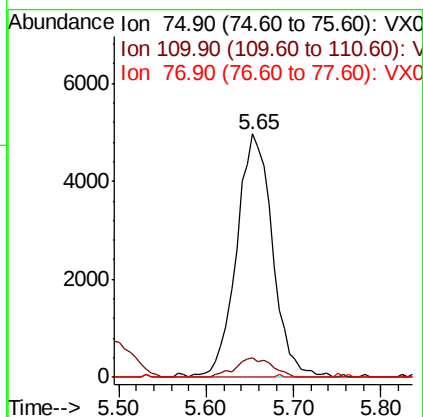
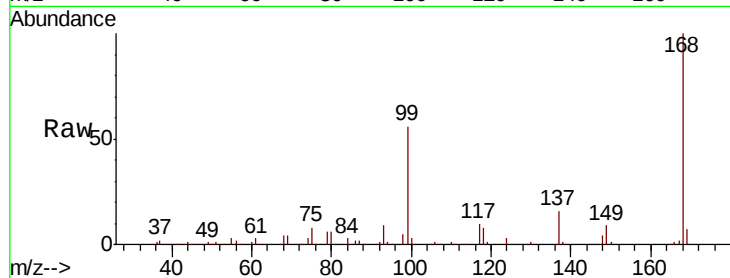




#36
 1,1-Dichloropropene
 Concen: 4.935 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.15 min
 Lab File: VX009982.D
 Acq: 31 May 2019 14:03

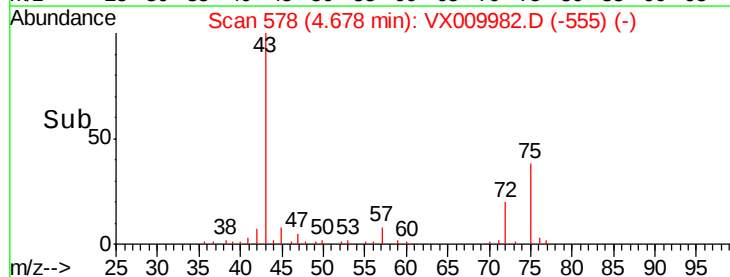
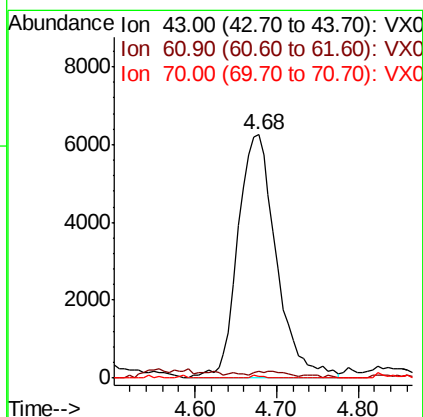
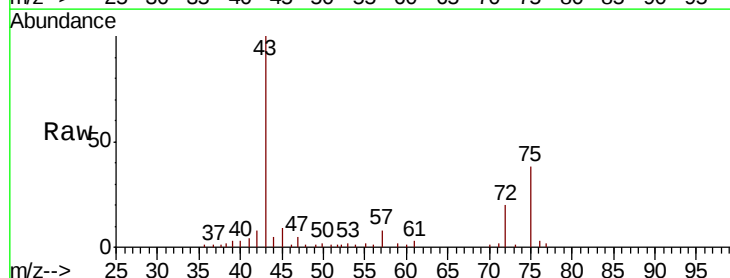
Instrument :
 MSVOA_X
 ClientSampleId :
 13818

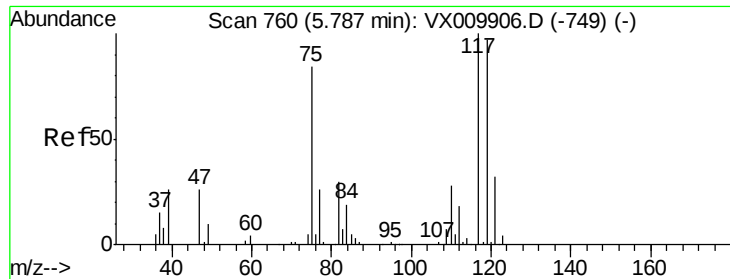
Tgt Ion: 75 Resp: 14182
 Ion Ratio Lower Upper
 75 100
 110 8.3 16.7 50.1#
 77 0.0 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 5.110 ug/l
 RT: 4.68 min Scan# 578
 Delta R.T. -0.16 min
 Lab File: VX009982.D
 Acq: 31 May 2019 14:03

Tgt Ion: 43 Resp: 20463
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.2#
 70 0.3 7.4 11.2#





#38

Carbon Tetrachloride

Concen: 6.604 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX009982.D

Acq: 31 May 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

13818

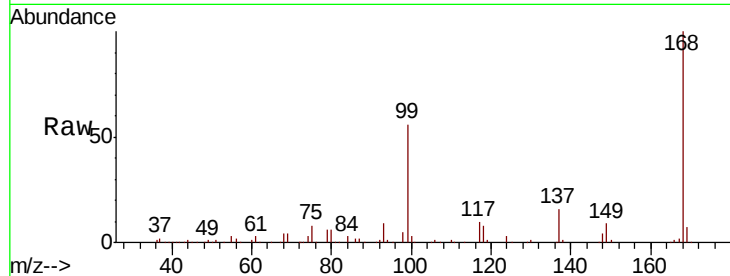
Tgt Ion:117 Resp: 16401

Ion Ratio Lower Upper

117 100

119 6.3 77.3 115.9#

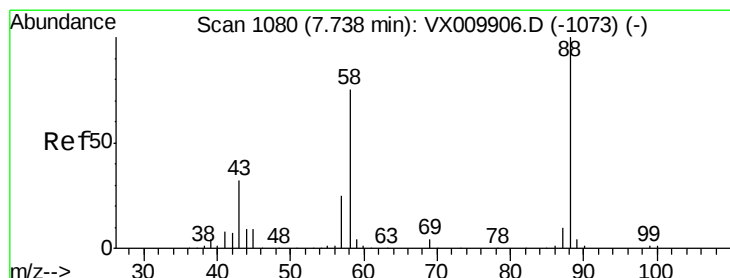
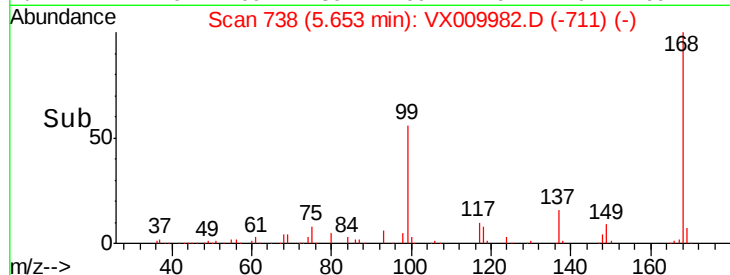
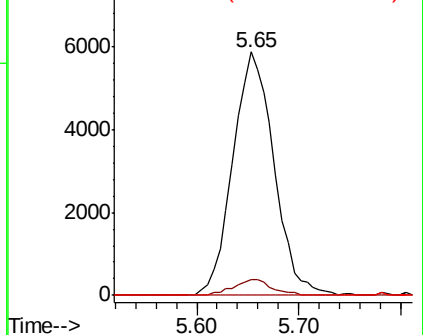
121 0.0 25.4 38.0#



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



#49

1,4-Dioxane

Concen: 0.672 ug/l

RT: 7.83 min Scan# 1095

Delta R.T. 0.09 min

Lab File: VX009982.D

Acq: 31 May 2019 14:03

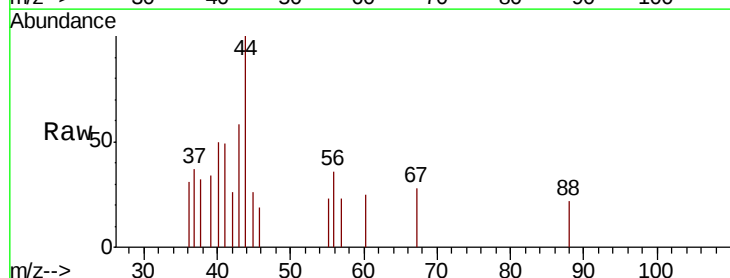
Tgt Ion: 88 Resp: 40

Ion Ratio Lower Upper

88 100

43 337.5 30.2 45.4#

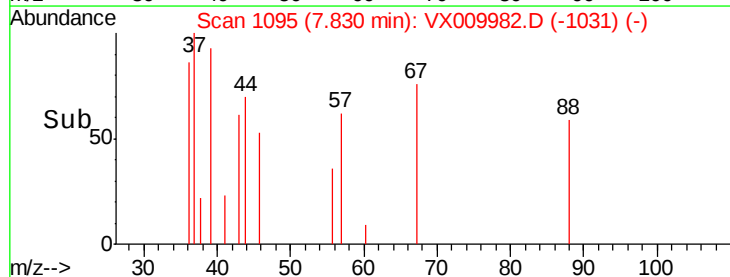
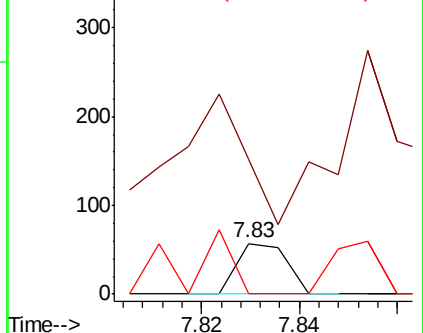
58 0.0 64.0 96.0#

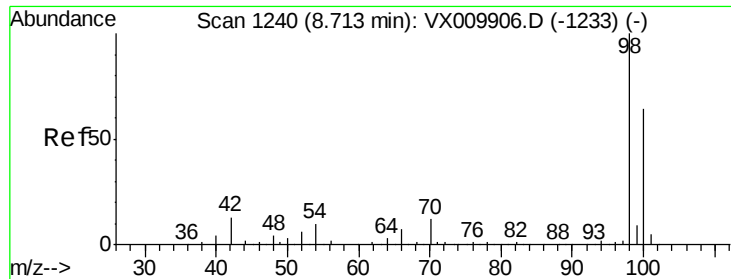


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.713 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009982.D

Acq: 31 May 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

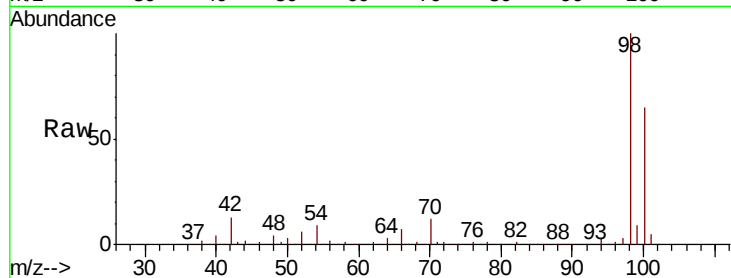
13818

Tgt Ion: 98 Resp: 359504

Ion Ratio Lower Upper

98 100

100 64.6 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

250000

200000

150000

100000

50000

0

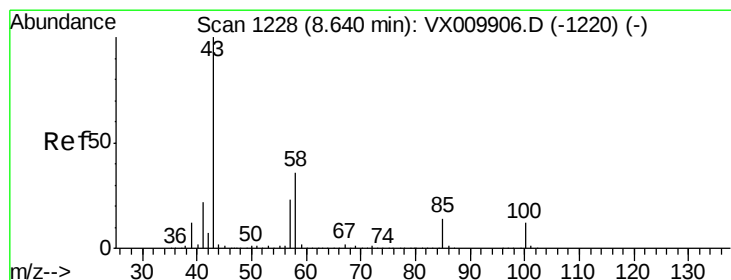
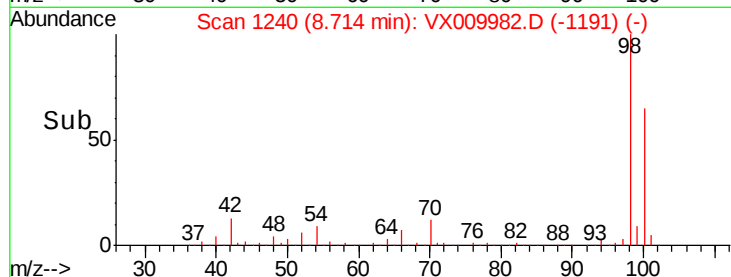
8.60

8.70

8.80

8.90

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.699 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VX009982.D

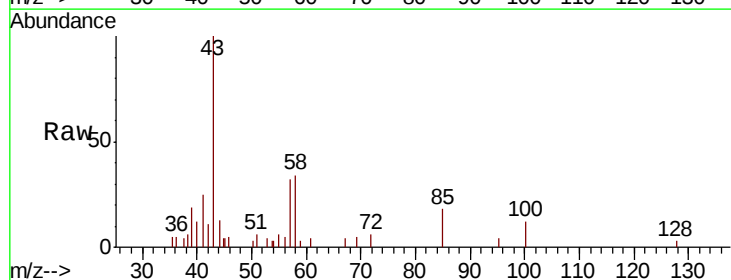
Acq: 31 May 2019 14:03

Tgt Ion: 43 Resp: 2939

Ion Ratio Lower Upper

43 100

58 37.3 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

1500

1000

500

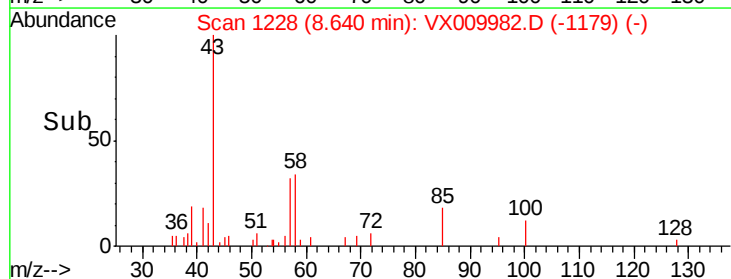
0

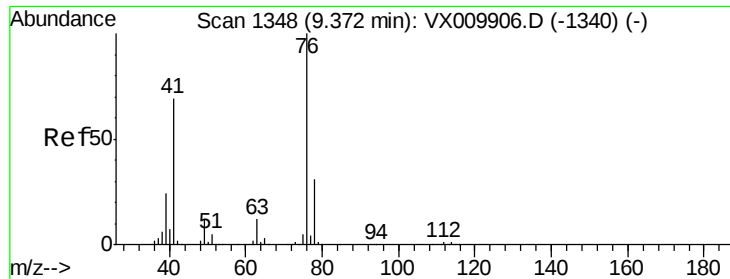
8.60

8.65

8.70

Time-->

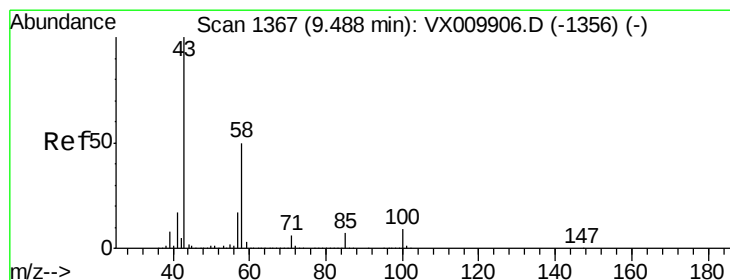
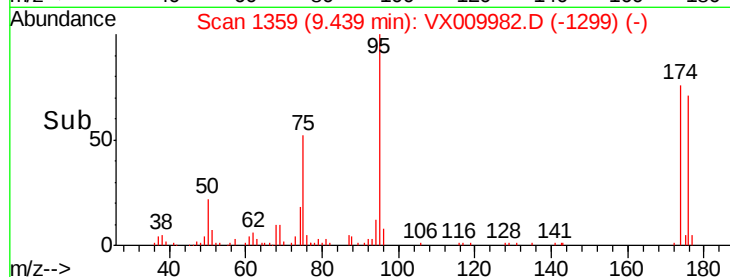
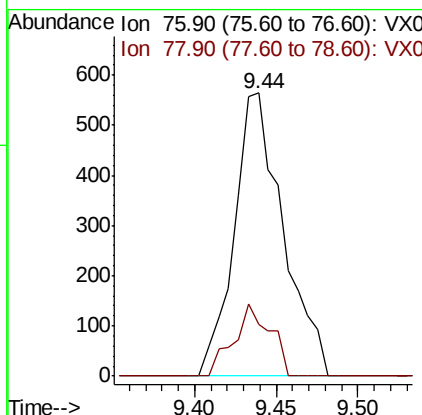
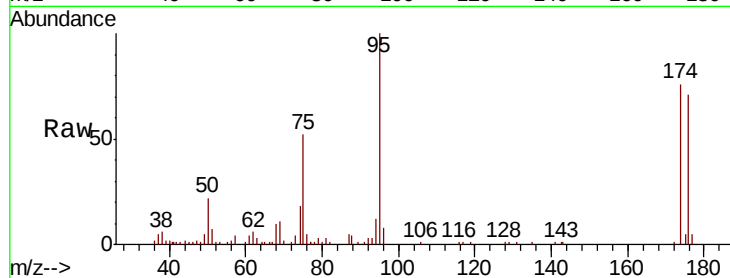




#57
 1,3-Dichloropropane
 Concen: 0.315 ug/l
 RT: 9.44 min Scan# 1359
 Delta R.T. 0.07 min
 Lab File: VX009982.D
 Acq: 31 May 2019 14:03

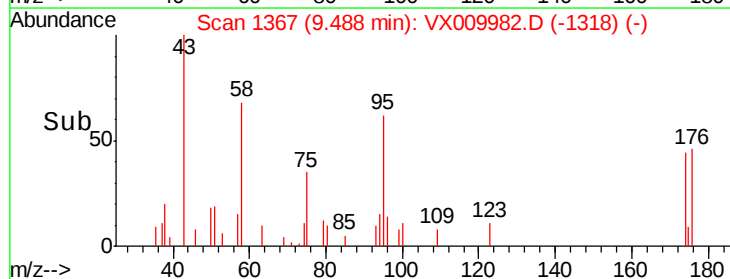
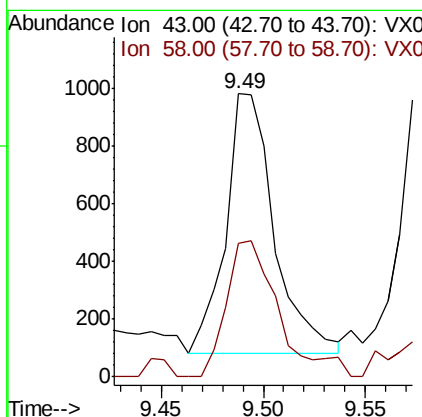
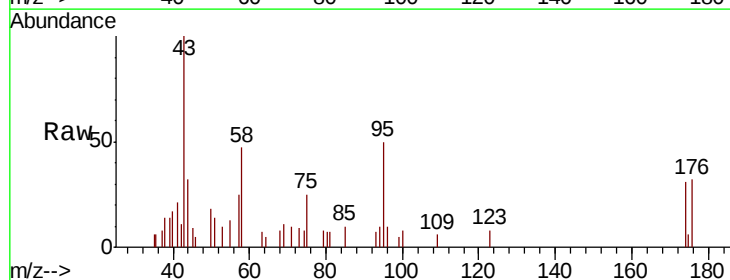
Instrument :
 MSVOA_X
 ClientSampled :
 13818

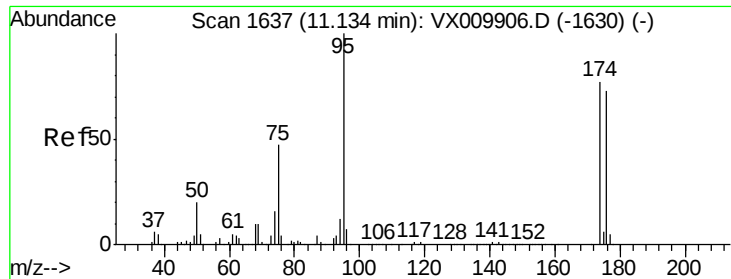
Tgt Ion: 76 Resp: 1179
 Ion Ratio Lower Upper
 76 100
 78 19.1 25.4 38.0#



#59
 2-Hexanone
 Concen: 0.460 ug/l
 RT: 9.49 min Scan# 1367
 Delta R.T. 0.00 min
 Lab File: VX009982.D
 Acq: 31 May 2019 14:03

Tgt Ion: 43 Resp: 1490
 Ion Ratio Lower Upper
 43 100
 58 56.2 25.1 75.3

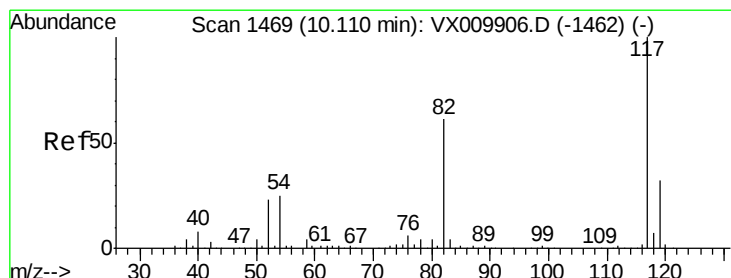
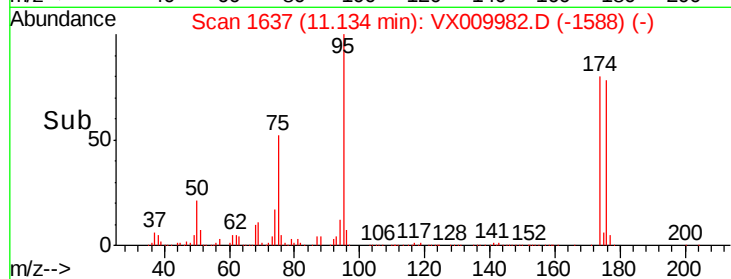
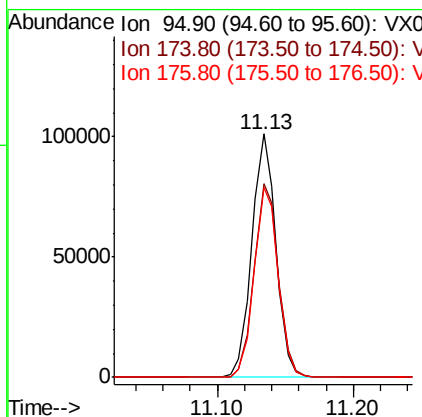
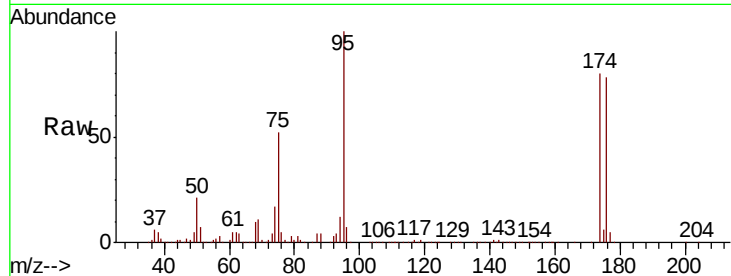




#62
4-Bromofluorobenzene
Concen: 48.170 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX009982.D
Acq: 31 May 2019 14:03

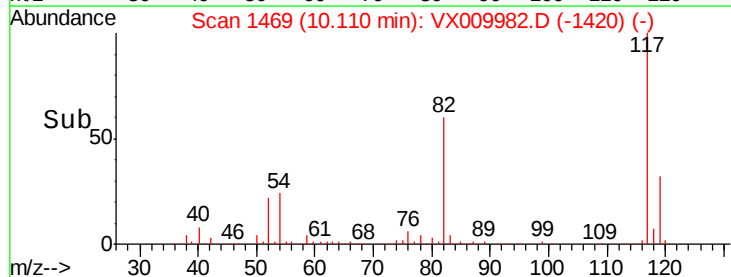
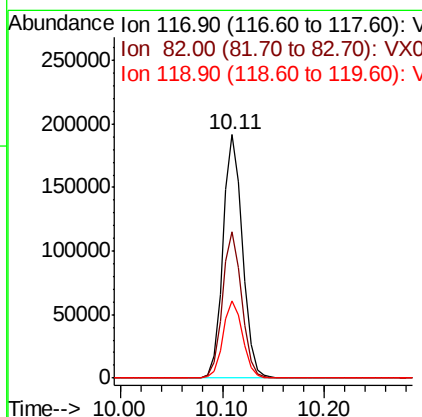
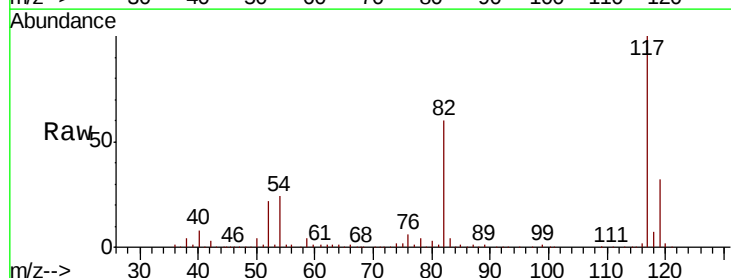
Instrument :
MSVOA_X
ClientSampleId :
13818

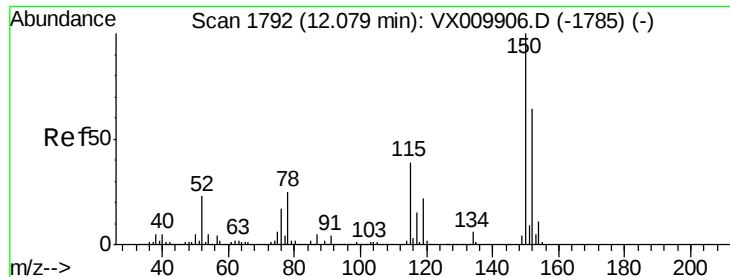
Tgt Ion: 95 Resp: 125118
Ion Ratio Lower Upper
95 100
174 80.9 0.0 160.4
176 78.7 0.0 154.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009982.D
Acq: 31 May 2019 14:03

Tgt Ion: 117 Resp: 254959
Ion Ratio Lower Upper
117 100
82 60.0 49.2 73.8
119 31.7 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX009982.D

Acq: 31 May 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

13818

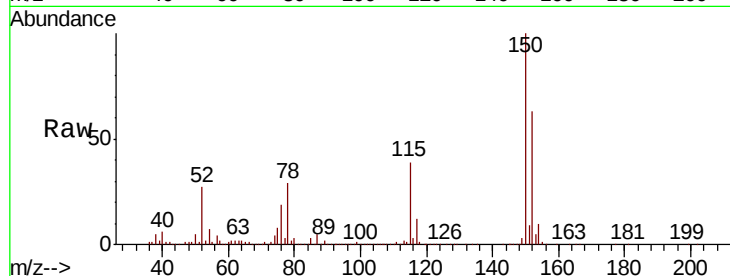
Tgt Ion:152 Resp: 114830

Ion Ratio Lower Upper

152 100

115 60.4 41.4 124.2

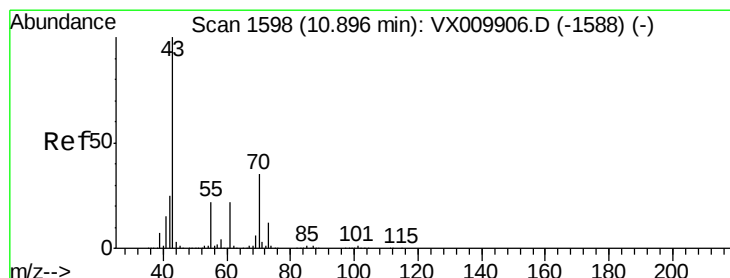
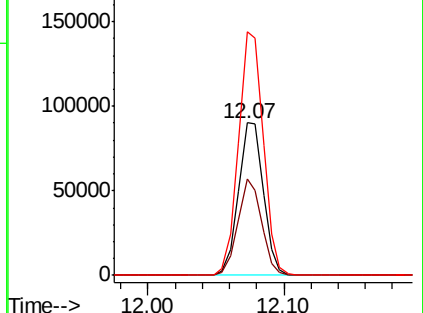
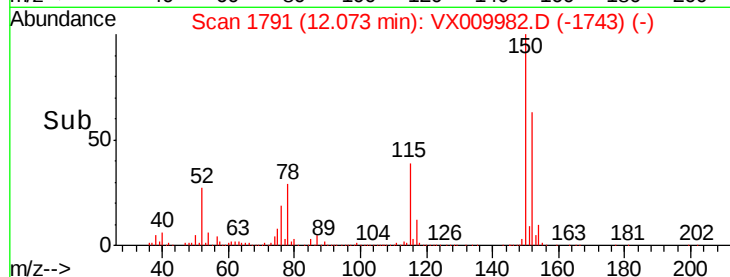
150 159.5 0.0 345.2



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



#74

N-aryl acetate

Concen: 0.356 ug/l

RT: 10.92 min Scan# 1602

Delta R.T. 0.02 min

Lab File: VX009982.D

Acq: 31 May 2019 14:03

Tgt Ion: 43 Resp: 1802

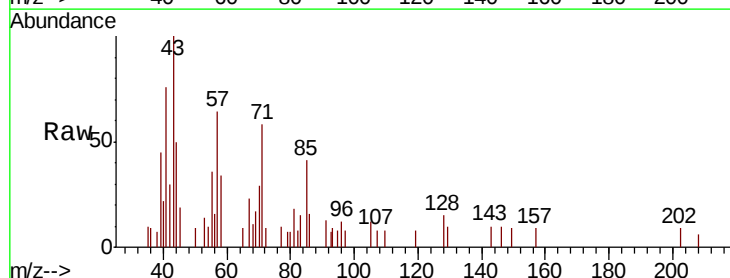
Ion Ratio Lower Upper

43 100

70 49.0 28.6 43.0#

55 48.8 17.8 26.8#

61 0.0 17.7 26.5#

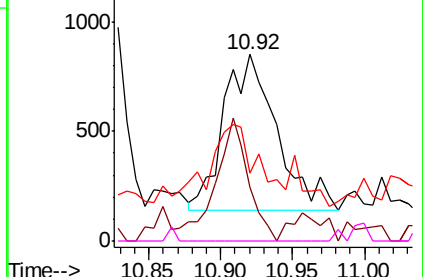
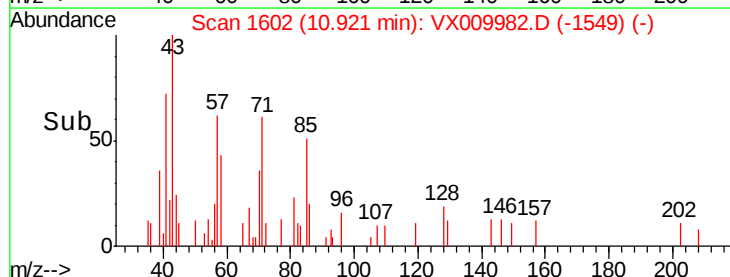


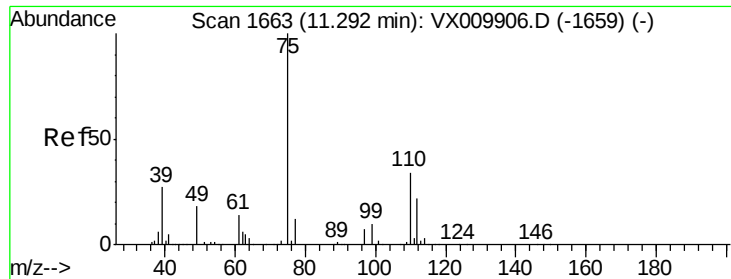
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 1.074 ug/l

RT: 11.38 min Scan# 1677

Delta R.T. 0.09 min

Lab File: VX009982.D

Acq: 31 May 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

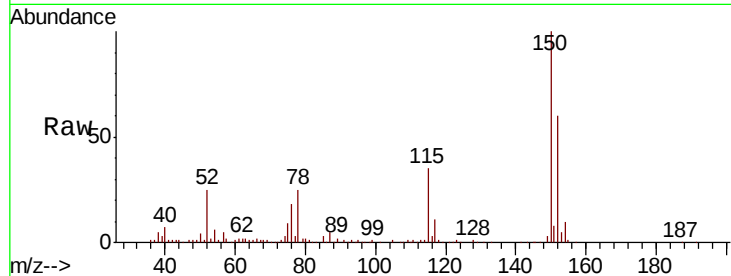
13818

Tgt Ion: 75 Resp: 2950

Ion Ratio Lower Upper

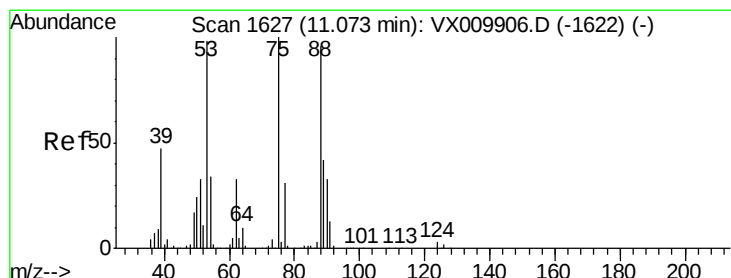
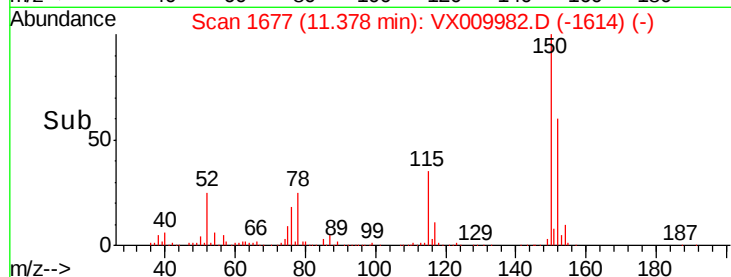
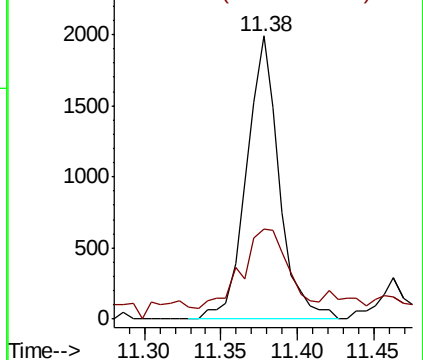
75 100

77 41.3 22.1 66.1



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: 58.734 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009982.D

Acq: 31 May 2019 14:03

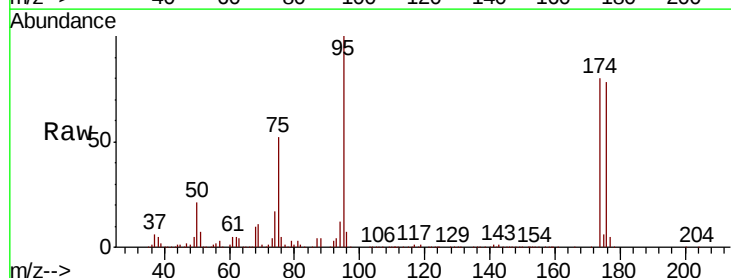
Tgt Ion: 75 Resp: 65186

Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

89 0.0 34.2 51.4#



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

