

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070218\
 Data File : VX003129.D
 Acq On : 02 Jul 2018 16:10
 Operator : JC/MD
 Sample : J3772-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SP18-GMZ5-ER1

Quant Time: Jul 03 06:57:30 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	5.67	168	269271	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	365960	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	336412	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	186711	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	168038	45.15	ug/l	0.00
Spiked Amount			Recovery	=	90.30%	
35) Dibromofluoromethane	5.51	113	141037	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
50) Toluene-d8	8.72	98	505185	47.74	ug/l	0.00
Spiked Amount			Recovery	=	95.48%	
62) 4-Bromofluorobenzene	11.14	95	175689	43.05	ug/l	0.00
Spiked Amount			Recovery	=	86.10%	

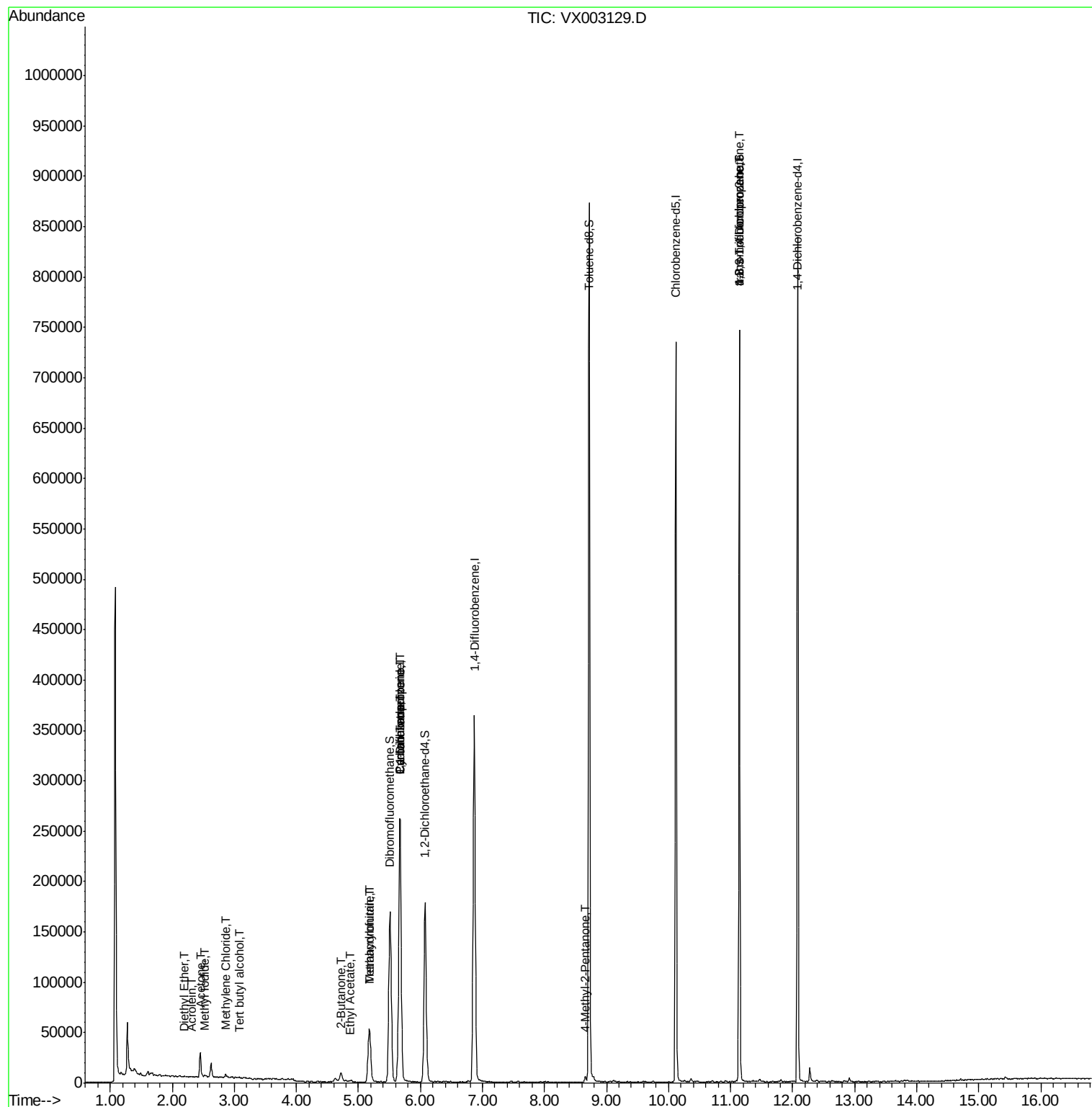
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	70	Below Cal	#	43
3) Chloromethane	1.32	50	933	Below Cal		91
5) Bromomethane	1.65	94	2035	Below Cal		93
6) Chloroethane	1.68	64	1912	Below Cal	#	62
8) Diethyl Ether	2.20	74	415	0.22	ug/l	53
10) Methyl Iodide	2.53	142	2447	6.94	ug/l	# 96
11) Tert butyl alcohol	3.08	59	996	1.34	ug/l	# 56
13) Acrolein	2.31	56	126	4.53	ug/l	# 82
16) Acetone	2.45	43	26827	17.41	ug/l	98
20) Methylene Chloride	2.85	84	1452	0.48	ug/l	# 92
25) 2-Butanone	4.72	43	15301	6.69	ug/l	97
29) Tetrahydrofuran	5.18	42	48082	32.78	ug/l	95
31) Cyclohexane	5.67	56	5033	1.08	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	17118	4.27	ug/l	# 51
37) Ethyl Acetate	4.87	43	3322	0.77	ug/l	# 94
38) Carbon Tetrachloride	5.67	117	24031	5.46	ug/l	# 16
41) Methacrylonitrile	5.18	41	30072	12.09	ug/l	# 51
51) 4-Methyl-2-Pentanone	8.65	43	3165	0.70	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	89251	26.39	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	89251	74.78	ug/l	# 7

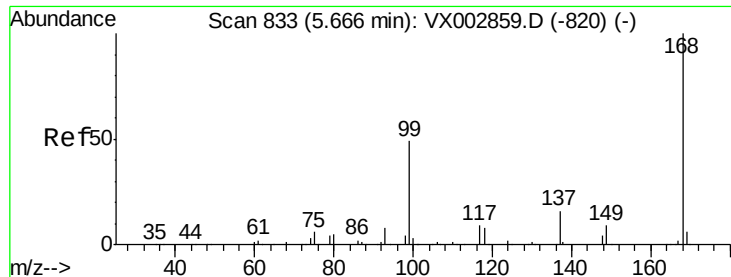
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003129.D

Acq: 02 Jul 2018 16:10

Instrument :

MSVOA_X

ClientSampled :

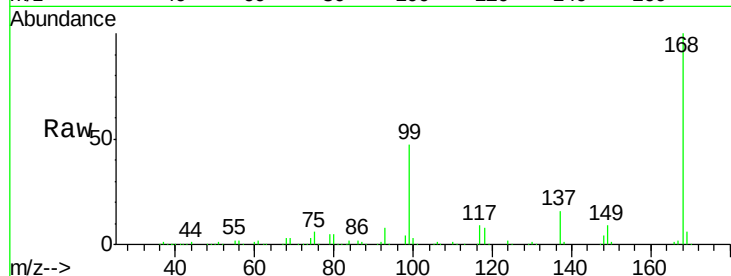
SP18-GMZ5-ER1

Tot Ion:168 Resp: 269271

Ion Ratio Lower Upper

168 100

99 47.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

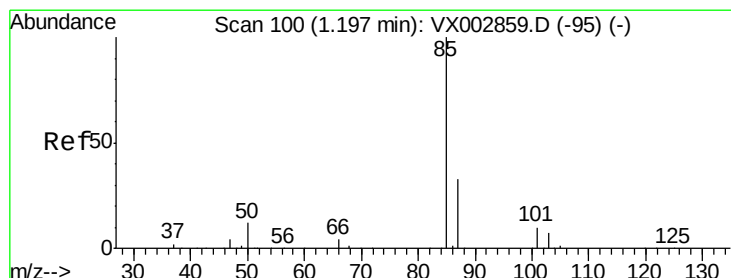
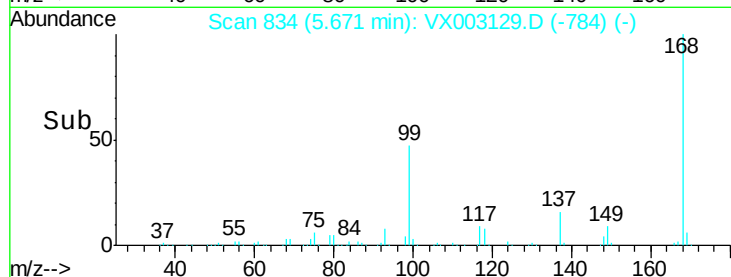
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003129.D

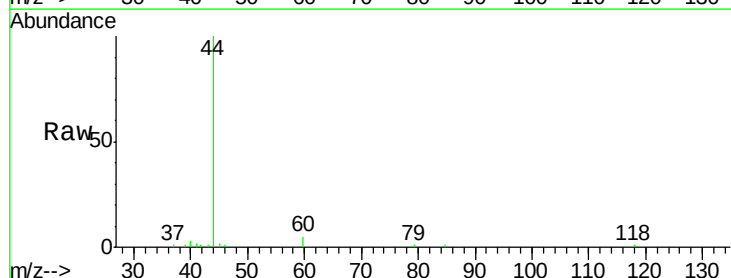
Acq: 02 Jul 2018 16:10

Tgt Ion: 85 Resp: 70

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

100

80

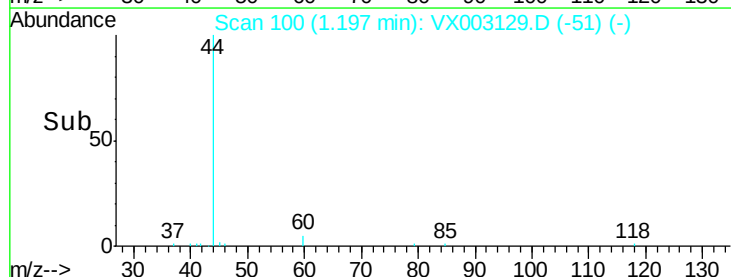
60

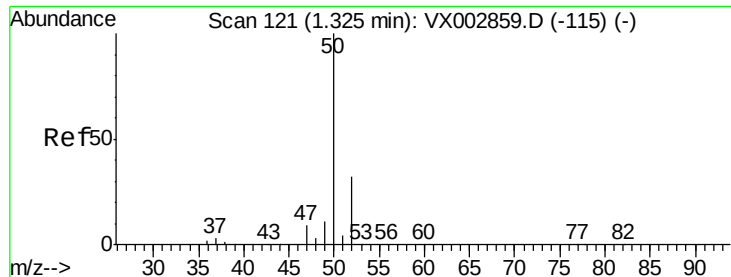
40

20

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003129.D

Acq: 02 Jul 2018 16:10

Instrument :

MSVOA_X

ClientSampled :

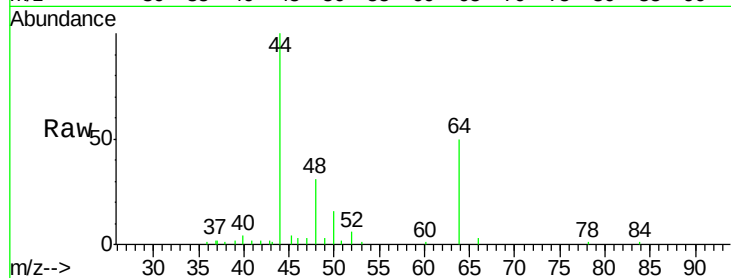
SP18-GMZ5-ER1

Tot Ion: 50 Resp: 933

Ion Ratio Lower Upper

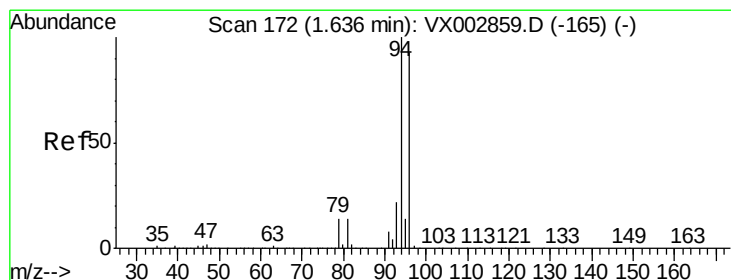
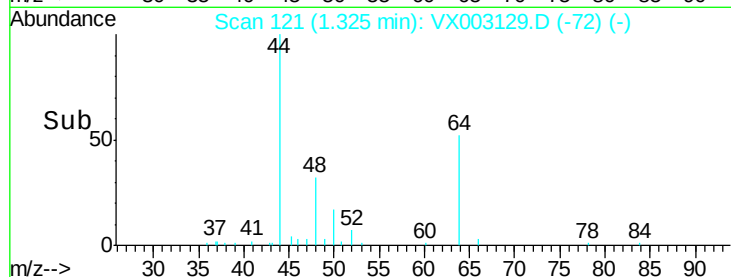
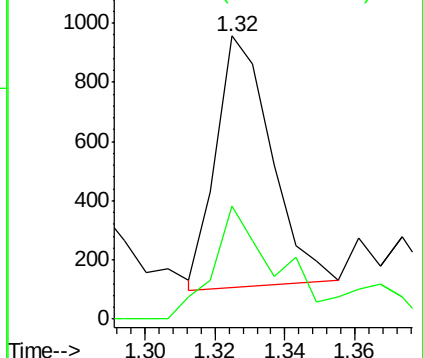
50 100

52 37.2 25.7 38.5



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: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003129.D

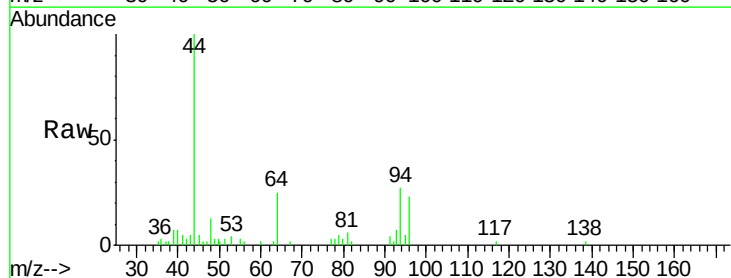
Acq: 02 Jul 2018 16:10

Tgt Ion: 94 Resp: 2035

Ion Ratio Lower Upper

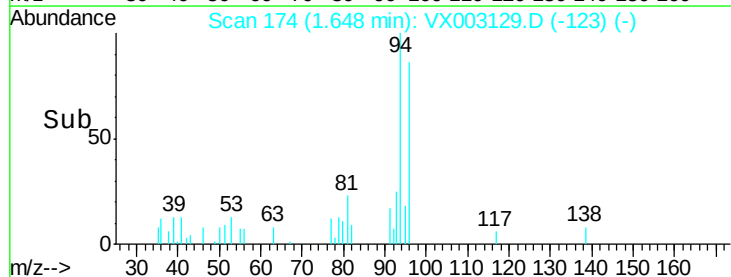
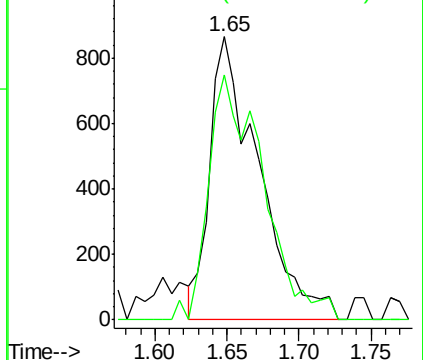
94 100

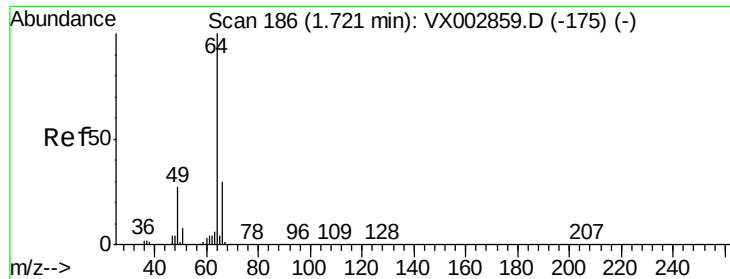
96 86.5 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 180

Delta R.T. -0.04 min

Lab File: VX003129.D

Acq: 02 Jul 2018 16:10

Instrument :

MSVOA_X

ClientSampled :

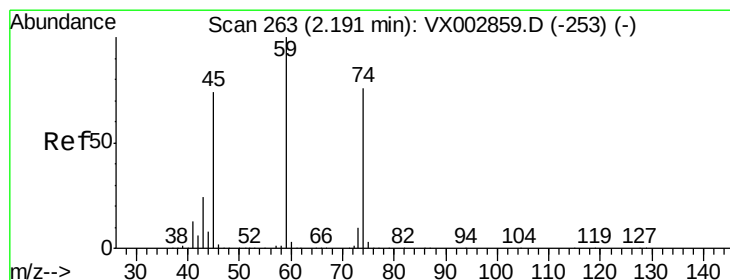
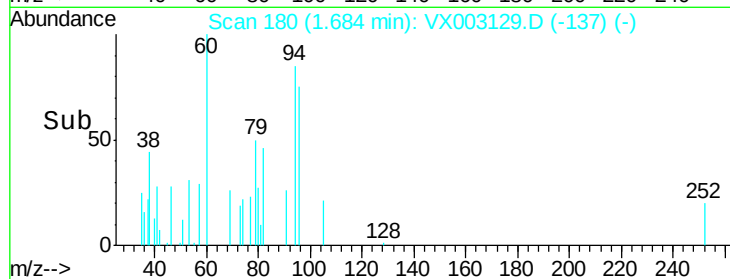
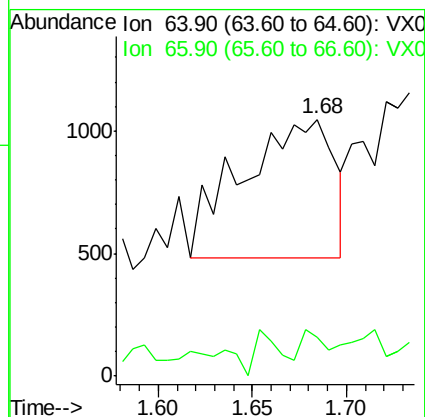
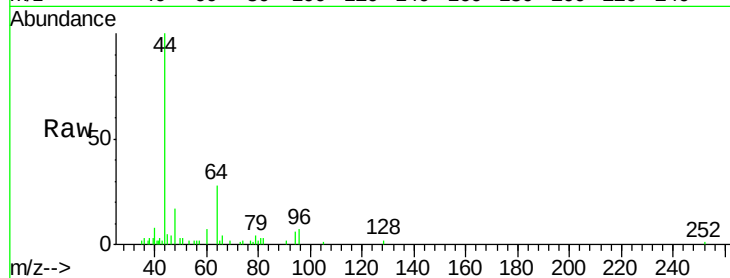
SP18-GMZ5-ER1

Tot Ion: 64 Resp: 1912

Ion Ratio Lower Upper

64 100

66 10.9 25.5 38.3#



#8

Diethyl Ether

Concen: 0.22 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX003129.D

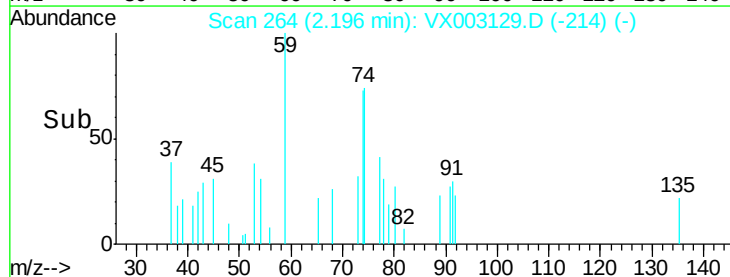
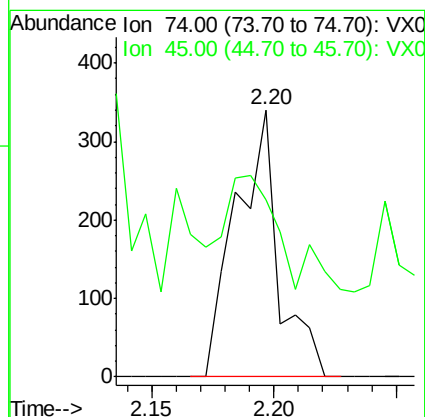
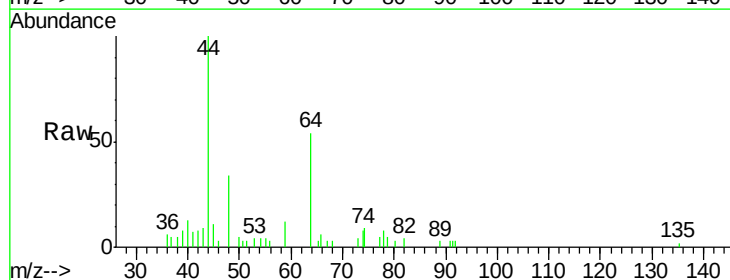
Acq: 02 Jul 2018 16:10

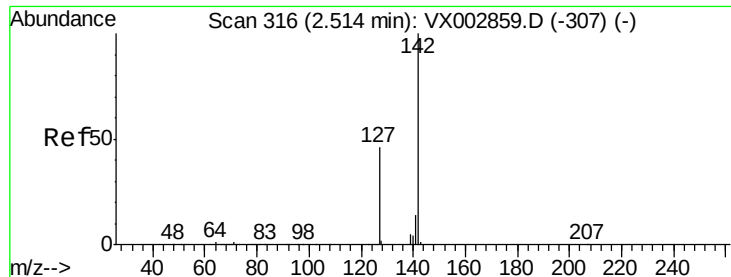
Tgt Ion: 74 Resp: 415

Ion Ratio Lower Upper

74 100

45 57.6 53.1 159.4

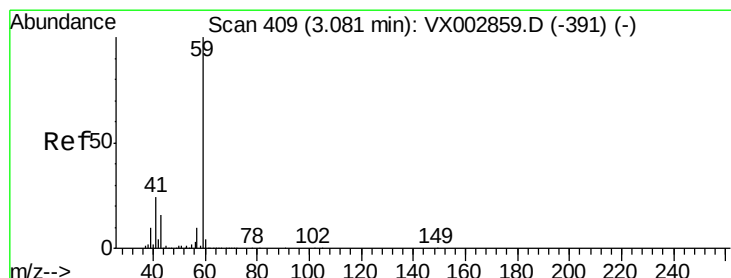
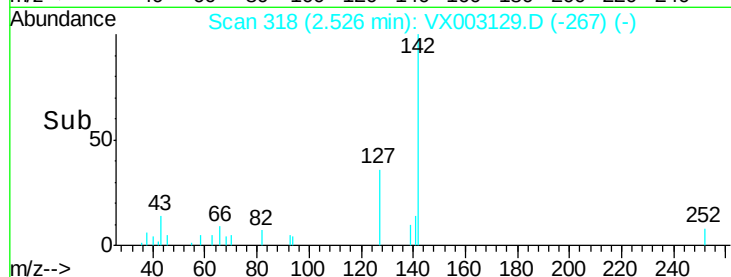
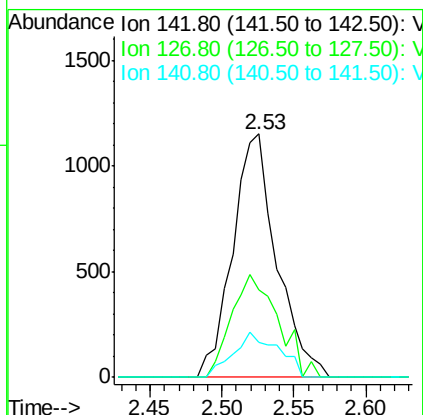
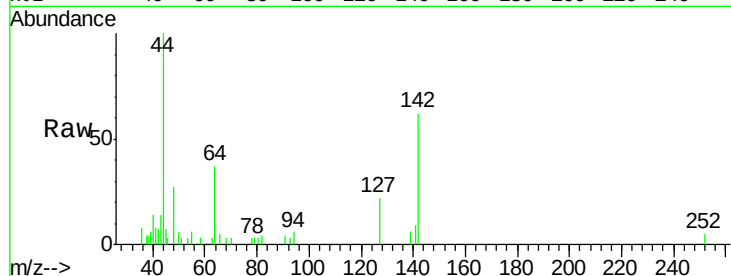




#10
Methyl Iodide
Concen: 6.94 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX003129.D
Acq: 02 Jul 2018 16:10

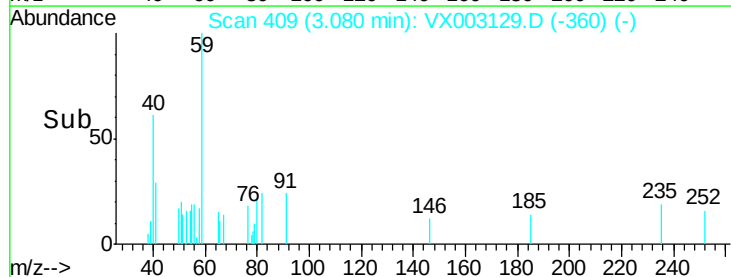
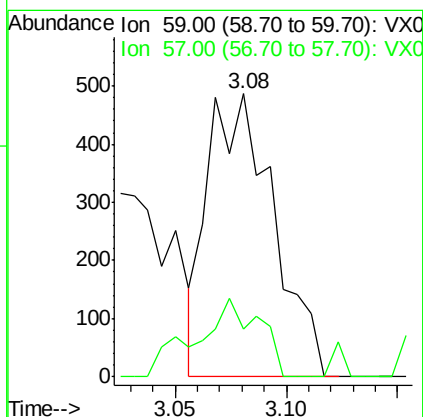
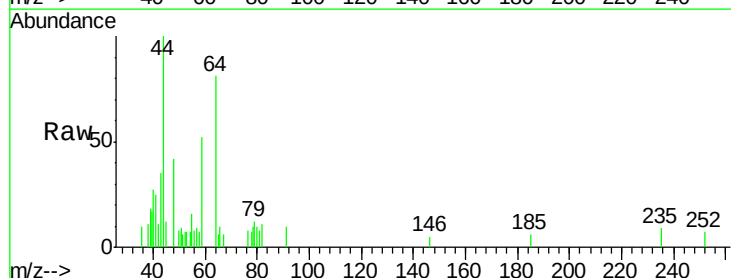
Instrument :
MSVOA_X
ClientSampleId :
SP18-GMZ5-ER1

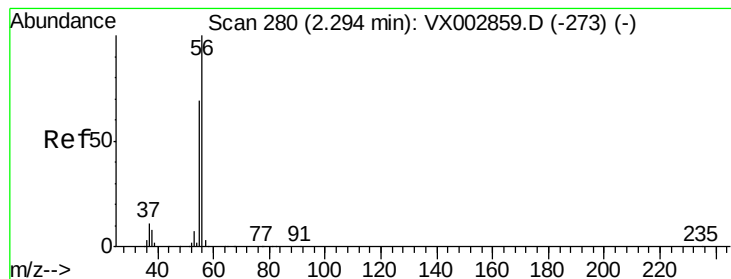
Tot Ion:142 Resp: 2447
Ion Ratio Lower Upper
142 100
127 45.0 36.6 55.0
141 18.8 11.3 16.9#



#11
Tert butyl alcohol
Concen: 1.34 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.00 min
Lab File: VX003129.D
Acq: 02 Jul 2018 16:10

Tgt Ion: 59 Resp: 996
Ion Ratio Lower Upper
59 100
57 26.6 8.2 12.2#





#13

Acrolein

Concen: 4.53 ug/l

RT: 2.31 min Scan# 283

Delta R.T. 0.02 min

Lab File: VX003129.D

Acq: 02 Jul 2018 16:10

Instrument :

MSVOA_X

ClientSampleId :

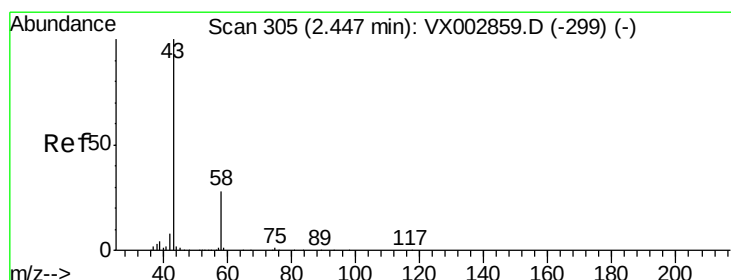
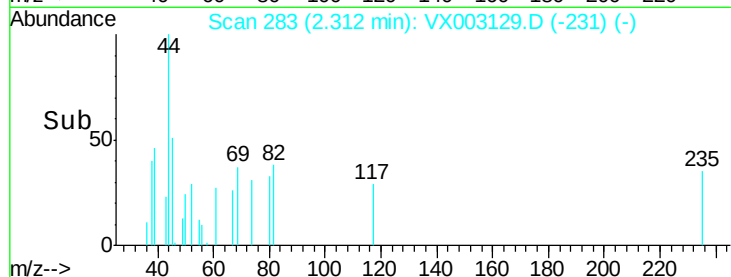
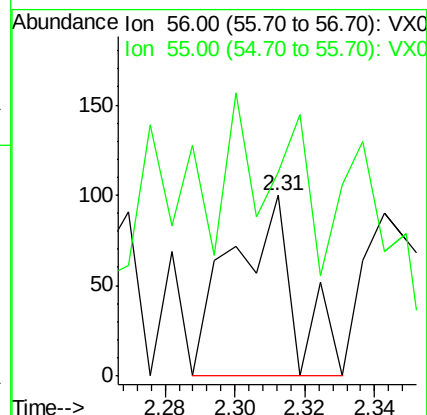
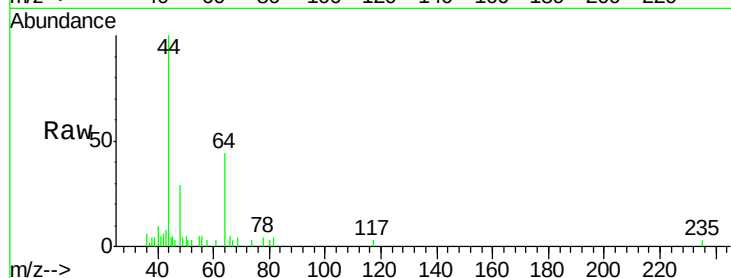
SP18-GMZ5-ER1

Tot Ion: 56 Resp: 126

Ion Ratio Lower Upper

56 100

55 85.7 57.0 85.4#



#16

Acetone

Concen: 17.41 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003129.D

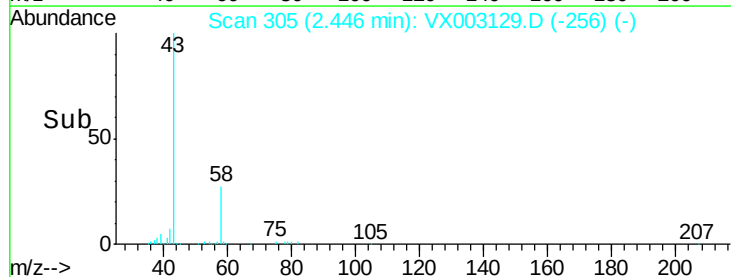
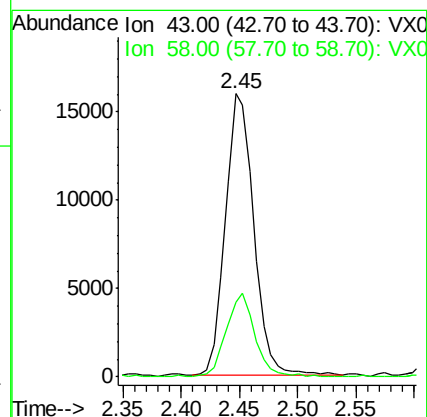
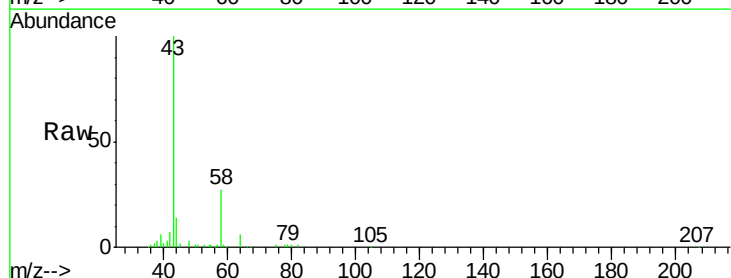
Acq: 02 Jul 2018 16:10

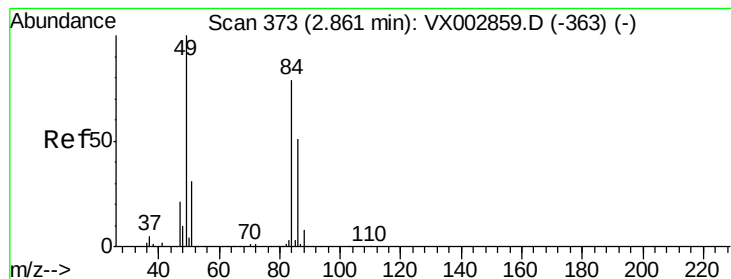
Tgt Ion: 43 Resp: 26827

Ion Ratio Lower Upper

43 100

58 26.8 22.1 33.1





#20

Methylene Chloride

Concen: 0.48 ug/l

RT: 2.85 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX003129.D

Acq: 02 Jul 2018 16:10

Instrument :

MSVOA_X

ClientSampleId :

SP18-GMZ5-ER1

Tot Ion: 84 Resp: 1452

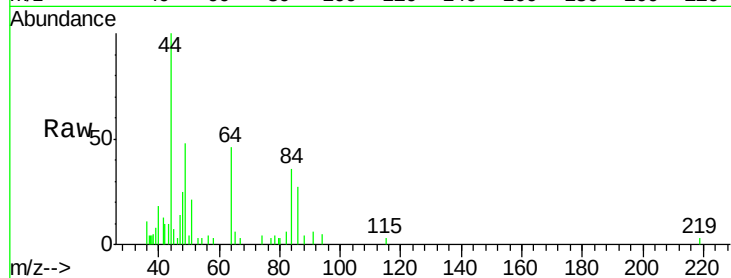
Ion Ratio Lower Upper

84 100

49 133.5 107.8 161.6

51 58.2 32.8 49.2#

86 73.9 52.5 78.7

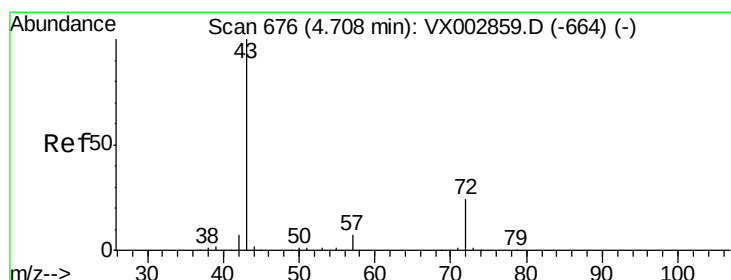
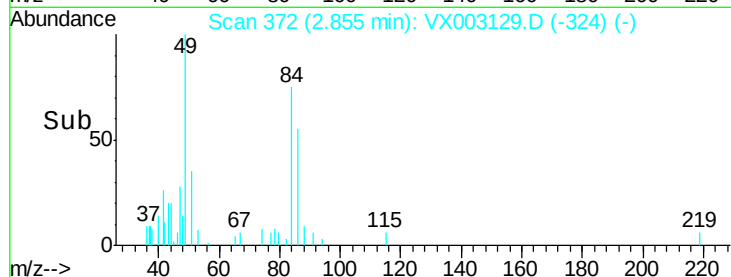
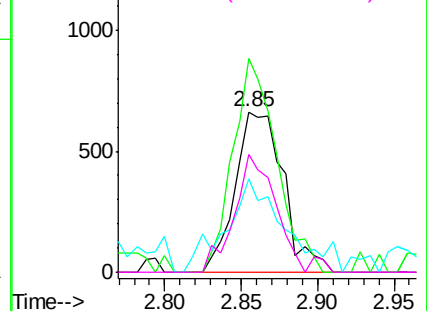


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 6.69 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX003129.D

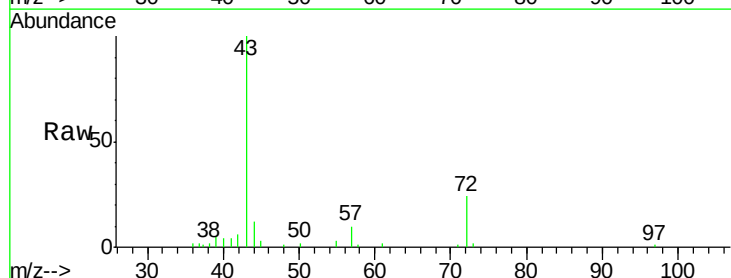
Acq: 02 Jul 2018 16:10

Tgt Ion: 43 Resp: 15301

Ion Ratio Lower Upper

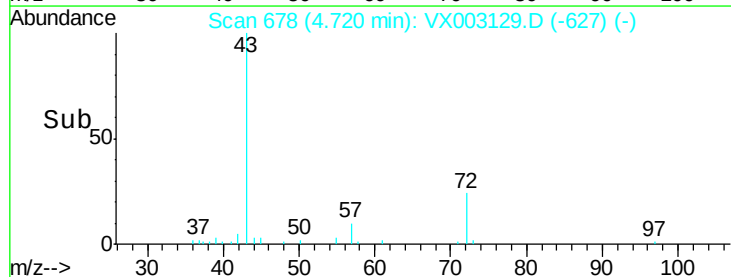
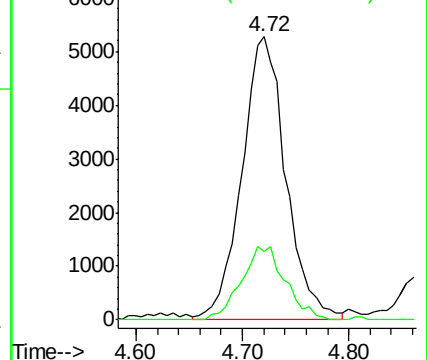
43 100

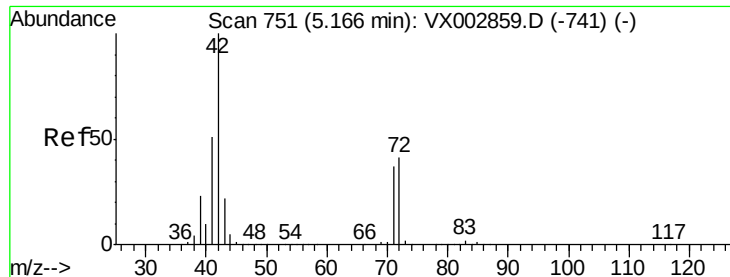
72 24.5 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 32.78 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX003129.D

Acq: 02 Jul 2018 16:10

Instrument :

MSVOA_X

ClientSampleId :

SP18-GMZ5-ER1

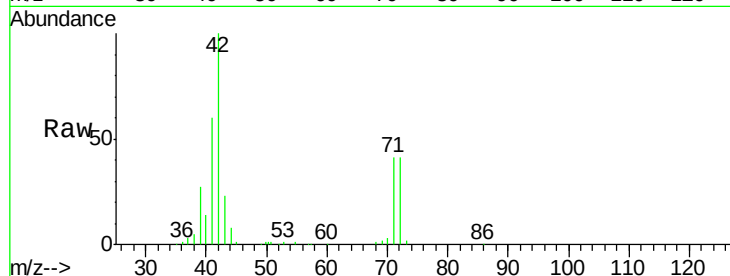
Tot Ion: 42 Resp: 48082

Ion Ratio Lower Upper

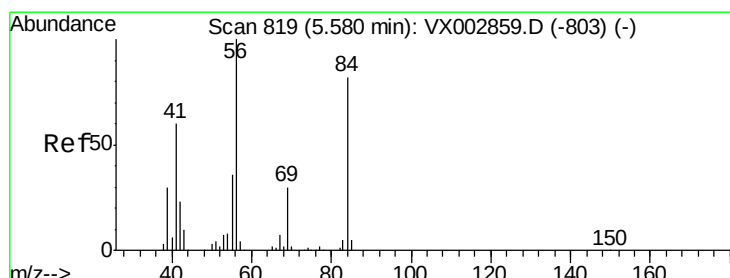
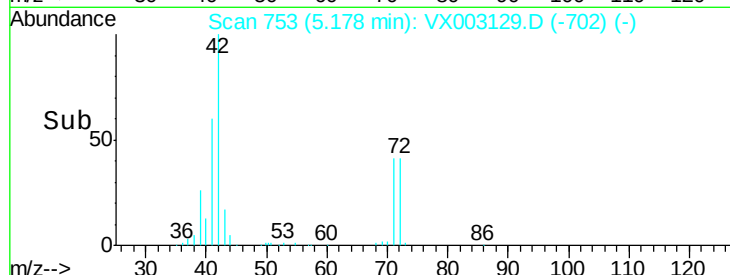
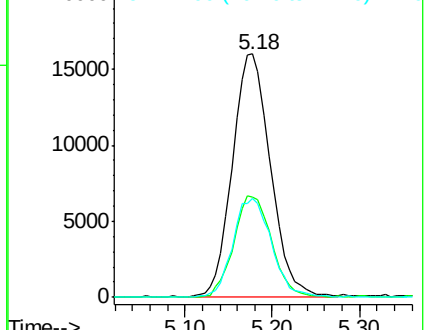
42 100

72 42.0 32.0 48.0

71 41.7 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



#31

Cyclohexane

Concen: 1.08 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX003129.D

Acq: 02 Jul 2018 16:10

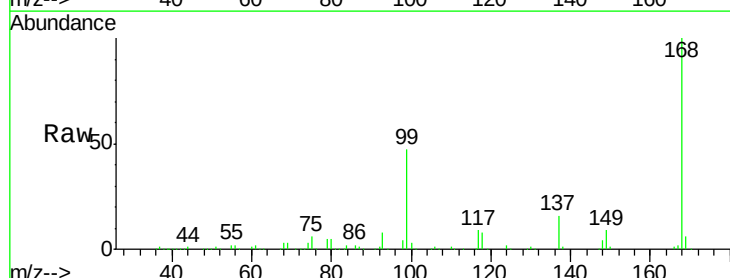
Tgt Ion: 56 Resp: 5033

Ion Ratio Lower Upper

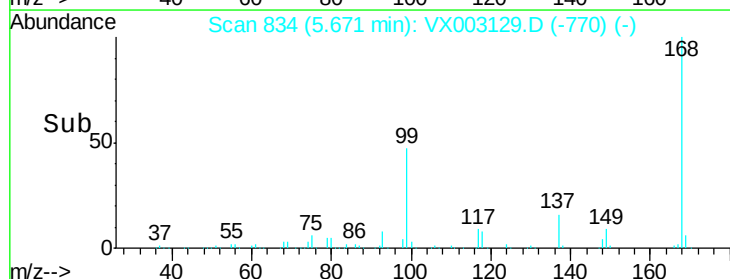
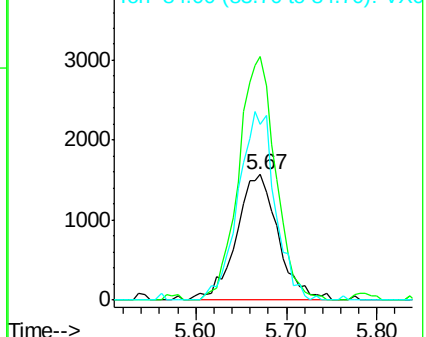
56 100

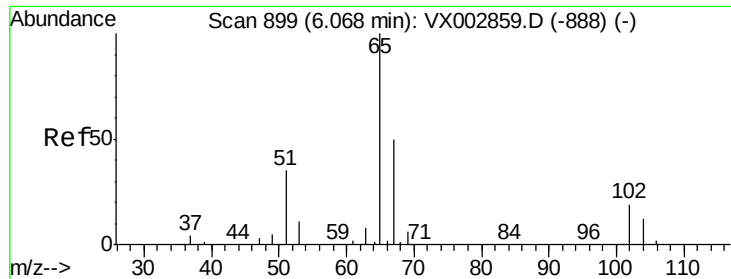
69 194.3 23.7 35.5#

84 140.5 64.1 96.1#



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

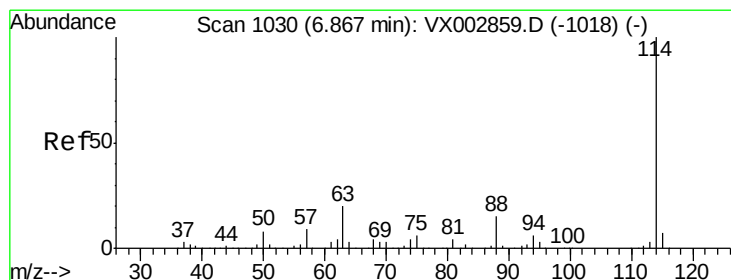
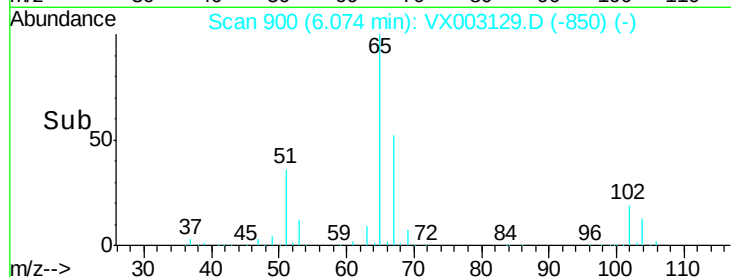
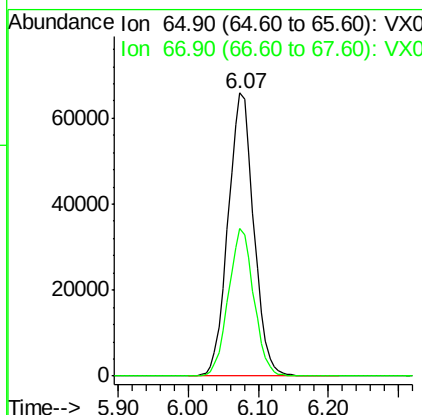
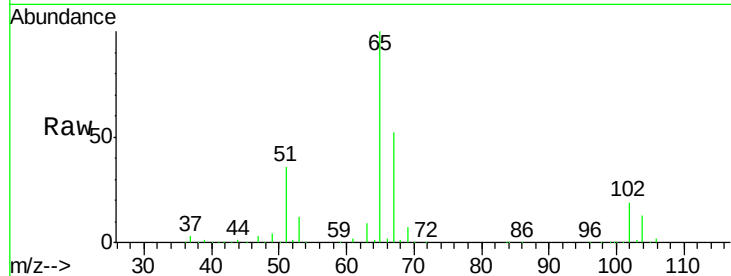




#33
 1,2-Dichloroethane-d4
 Concen: 45.15 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003129.D
 Acq: 02 Jul 2018 16:10

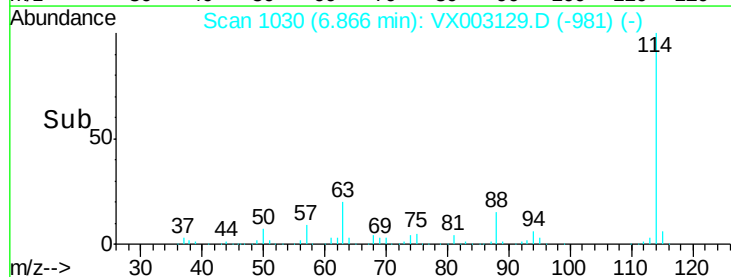
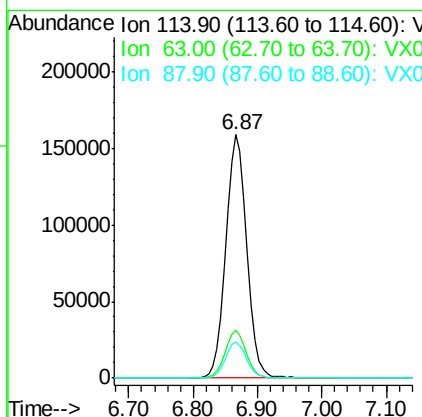
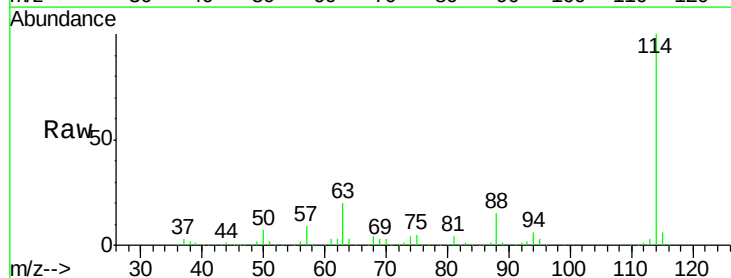
Instrument :
 MSVOA_X
 ClientSampleId :
 SP18-GMZ5-ER1

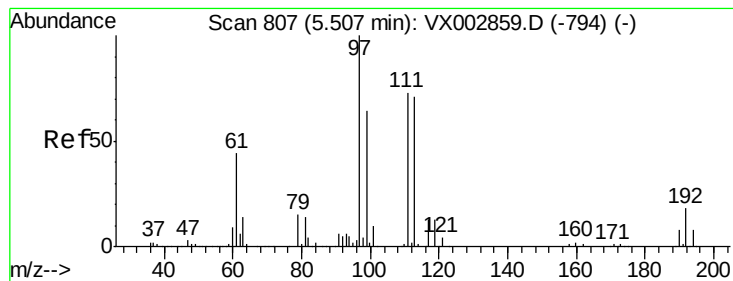
Tot Ion: 65 Resp: 168038
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003129.D
 Acq: 02 Jul 2018 16:10

Tgt Ion: 114 Resp: 365960
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 41.4
 88 14.8 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.67 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX003129.D

Acq: 02 Jul 2018 16:10

Instrument :

MSVOA_X

ClientSampleId :

SP18-GMZ5-ER1

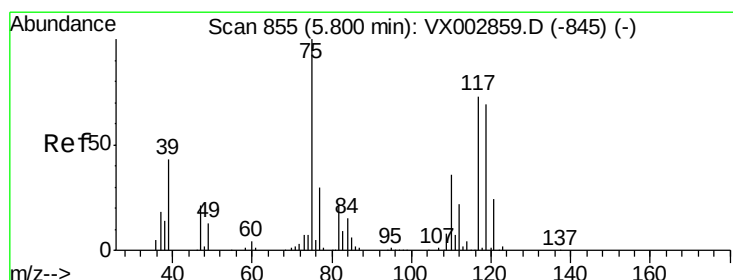
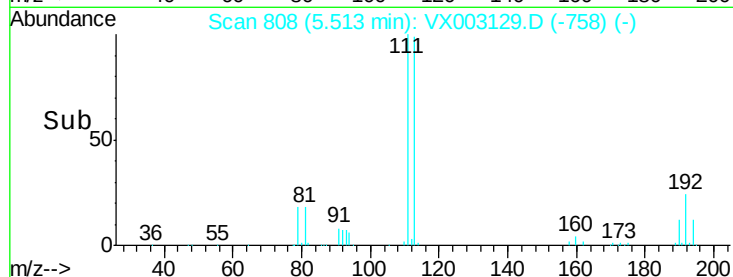
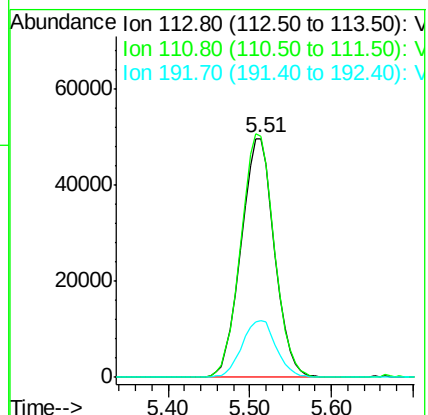
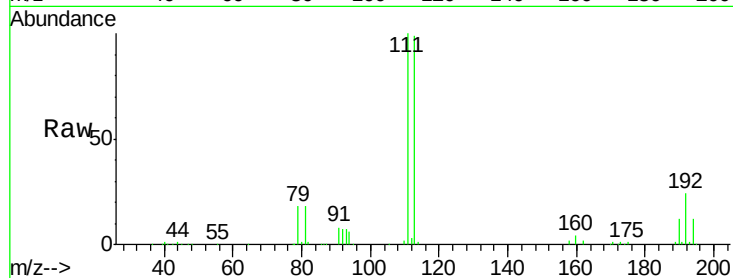
Tot Ion:113 Resp: 141037

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

192 24.4 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.27 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003129.D

Acq: 02 Jul 2018 16:10

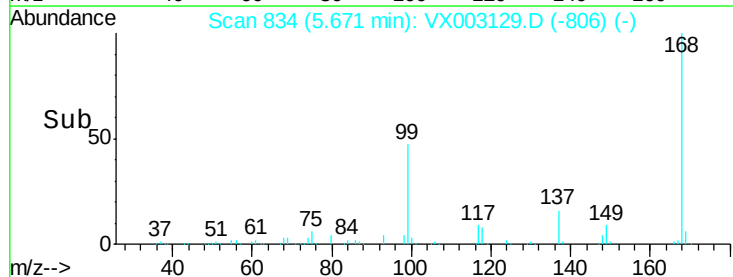
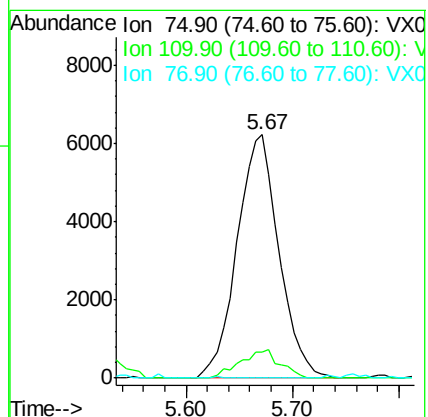
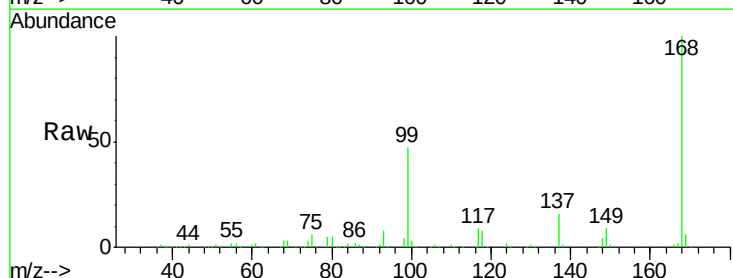
Tgt Ion: 75 Resp: 17118

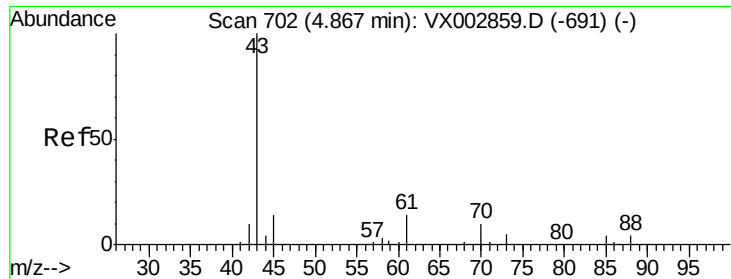
Ion Ratio Lower Upper

75 100

110 11.0 18.1 54.4#

77 0.0 24.3 36.5#

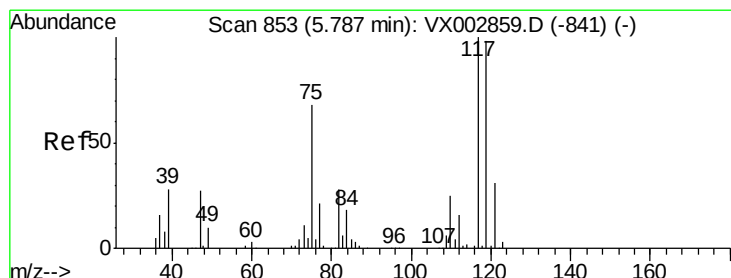
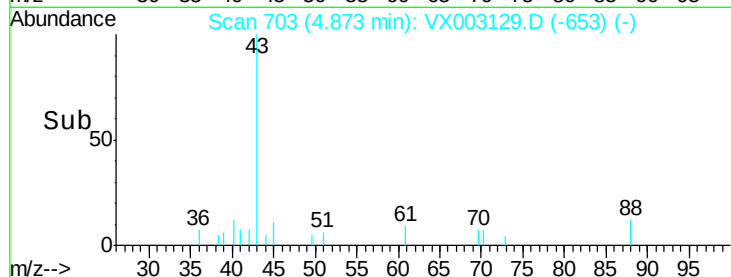
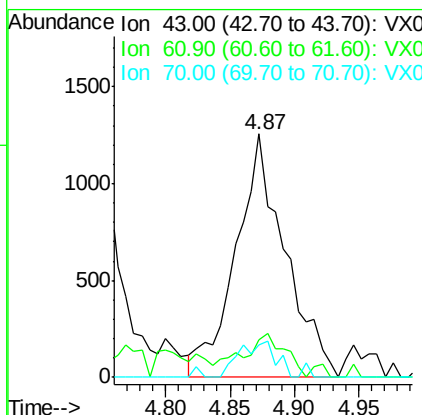
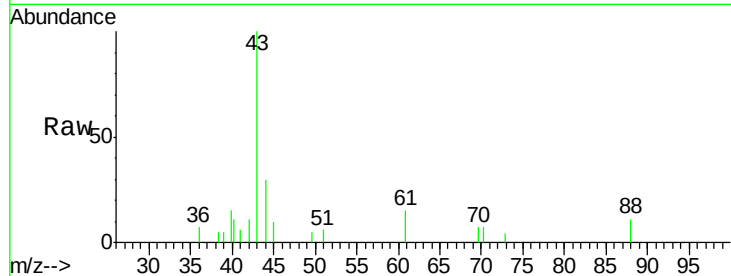




#37
Ethyl Acetate
Concen: 0.77 ug/l
RT: 4.87 min Scan# 703
Delta R.T. 0.01 min
Lab File: VX003129.D
Acq: 02 Jul 2018 16:10

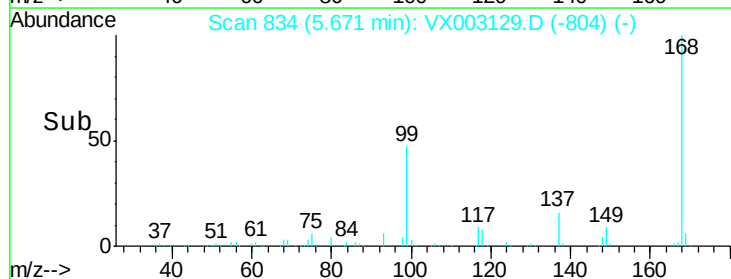
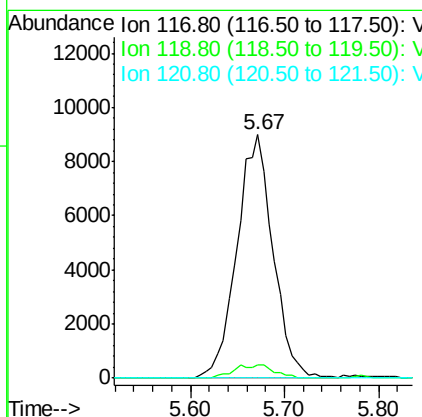
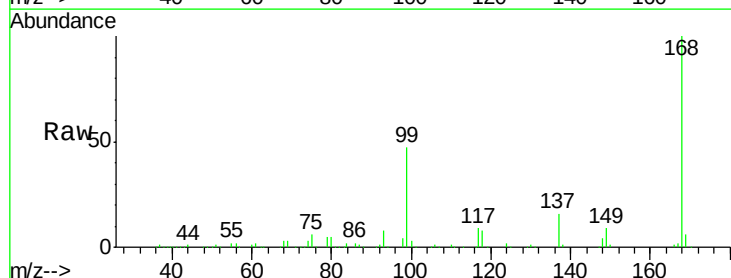
Instrument :
MSVOA_X
ClientSampleId :
SP18-GMZ5-ER1

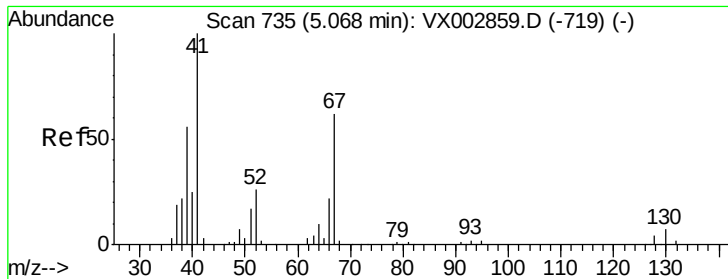
Tot Ion: 43 Resp: 3322
Ion Ratio Lower Upper
43 100
61 15.9 10.4 15.6#
70 11.0 7.6 11.4



#38
Carbon Tetrachloride
Concen: 5.46 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.12 min
Lab File: VX003129.D
Acq: 02 Jul 2018 16:10

Tgt Ion: 117 Resp: 24031
Ion Ratio Lower Upper
117 100
119 5.3 77.4 116.0#
121 0.0 24.4 36.6#





#41

Methacrylonitrile

Concen: 12.09 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.11 min

Lab File: VX003129.D

Acq: 02 Jul 2018 16:10

Instrument :

MSVOA_X

ClientSampled :

SP18-GMZ5-ER1

Tot Ion: 41 Resp: 30072

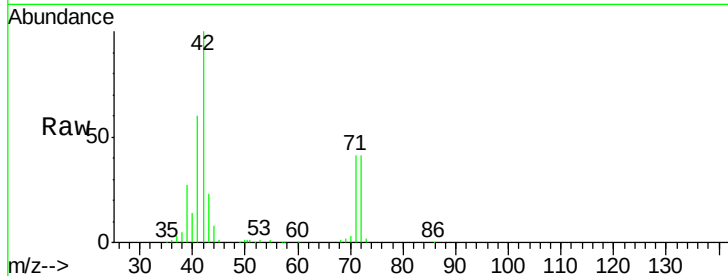
Ion Ratio Lower Upper

41 100

39 49.2 45.8 68.6

67 0.0 51.3 76.9#

52 0.5 23.0 34.6#

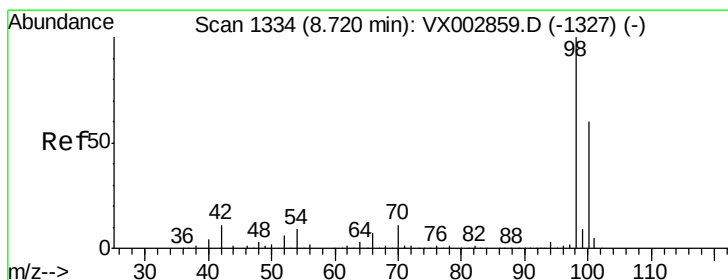
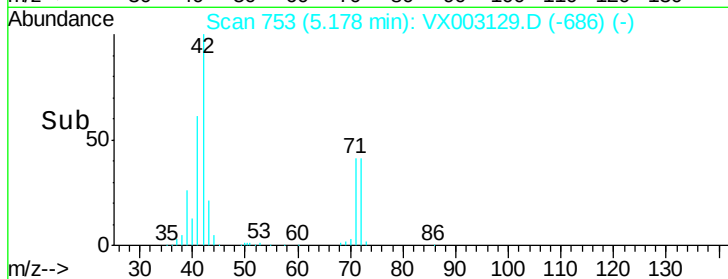
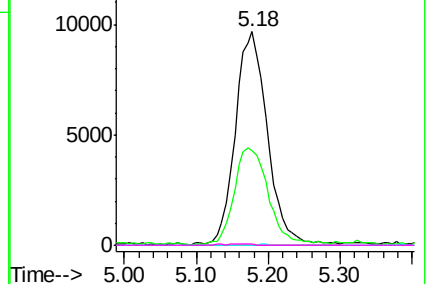


Abundance Ion 41.00 (40.70 to 41.70): VX0

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



#50

Toluene-d8

Concen: 47.74 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003129.D

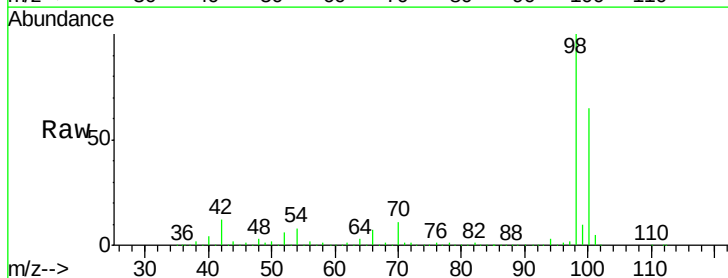
Acq: 02 Jul 2018 16:10

Tgt Ion: 98 Resp: 505185

Ion Ratio Lower Upper

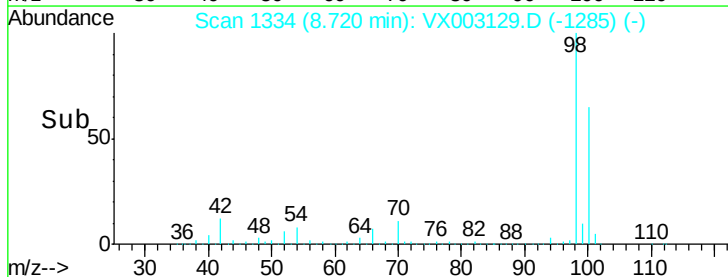
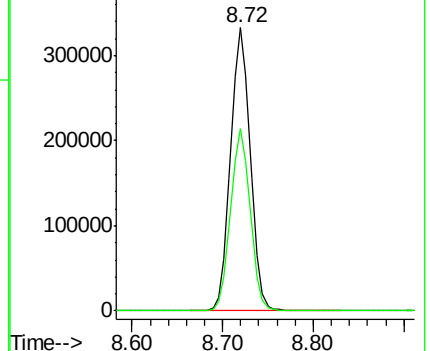
98 100

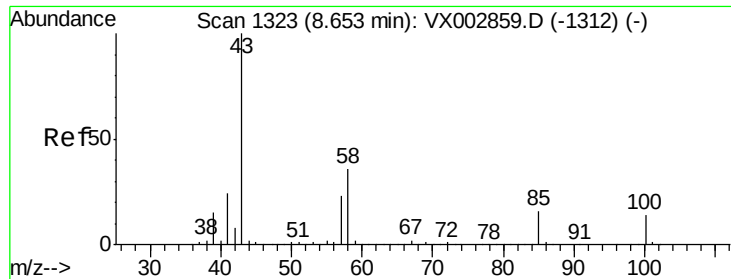
100 63.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.70 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX003129.D

Acq: 02 Jul 2018 16:10

Instrument :

MSVOA_X

ClientSampleId :

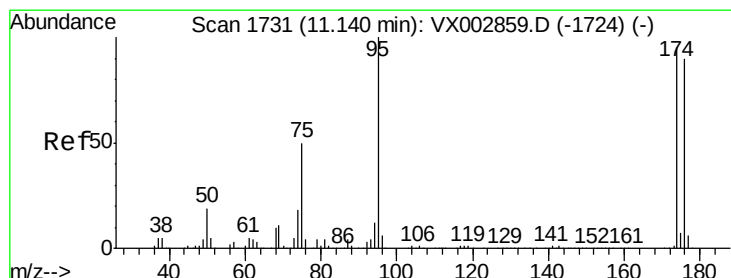
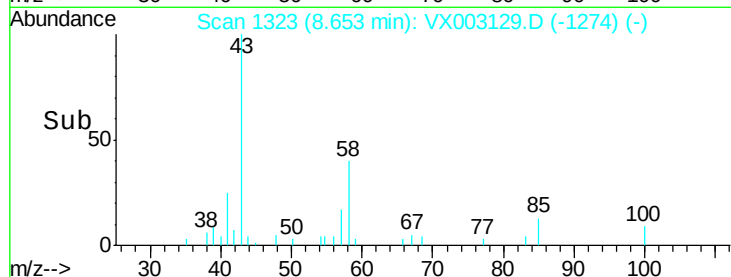
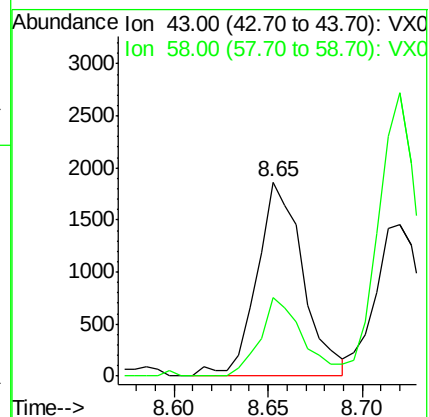
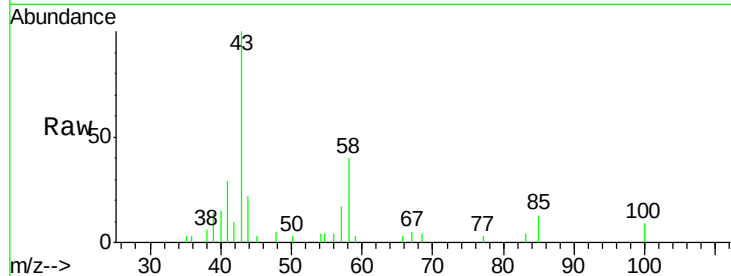
SP18-GMZ5-ER1

Tot Ion: 43 Resp: 3165

Ion Ratio Lower Upper

43 100

58 36.6 28.6 42.8



#62

4-Bromofluorobenzene

Concen: 43.05 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003129.D

Acq: 02 Jul 2018 16:10

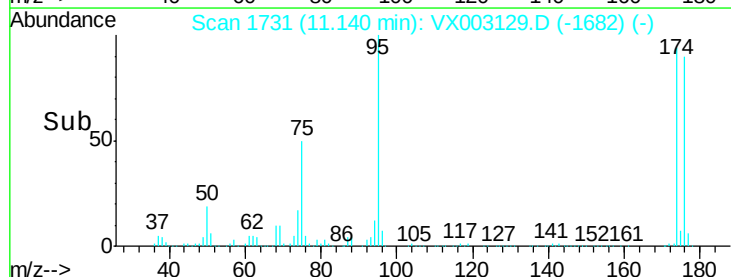
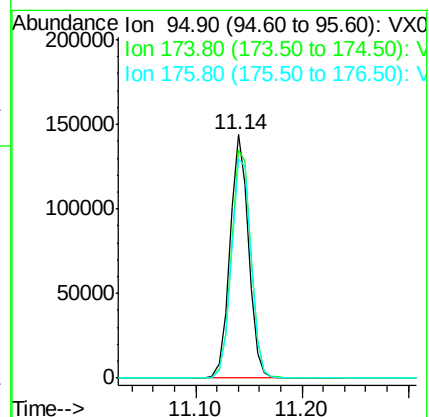
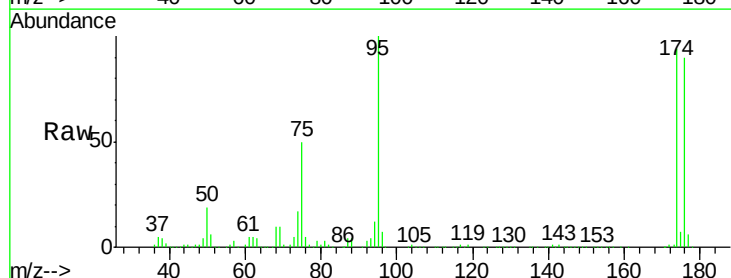
Tgt Ion: 95 Resp: 175689

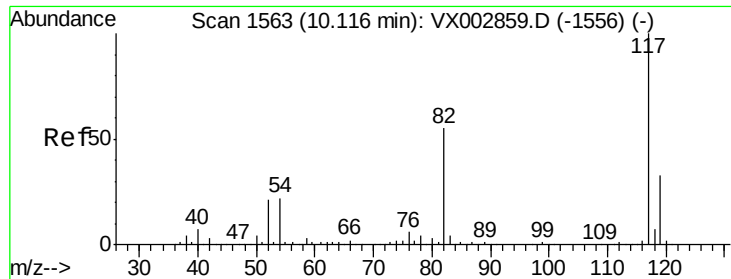
Ion Ratio Lower Upper

95 100

174 99.5 0.0 187.4

176 96.1 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: VX003129.D

Acq: 02 Jul 2018 16:10

Instrument :

MSVOA_X

ClientSampleId :

SP18-GMZ5-ER1

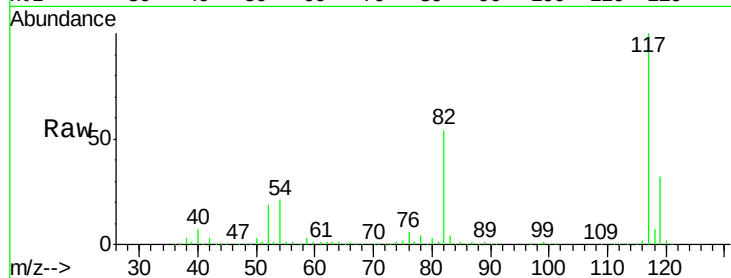
Tot Ion:117 Resp: 336412

Ion Ratio Lower Upper

117 100

82 54.0 45.0 67.4

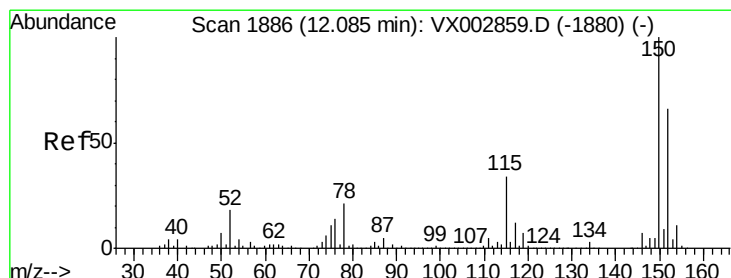
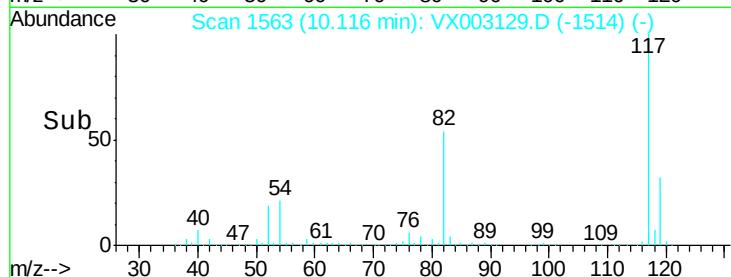
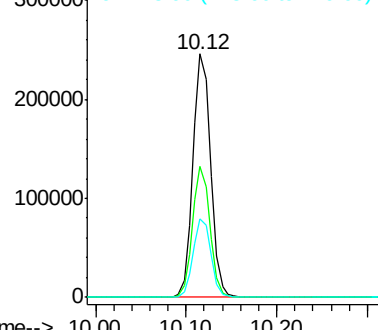
119 32.4 25.8 38.6



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX003129.D

Acq: 02 Jul 2018 16:10

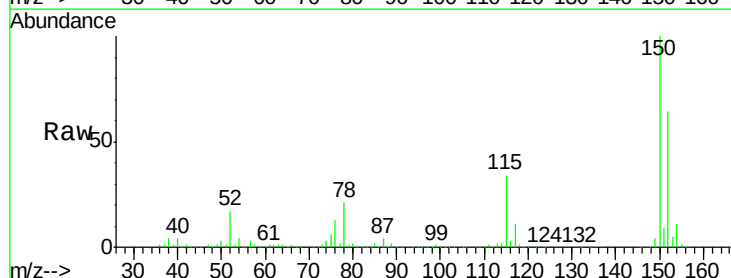
Tgt Ion:152 Resp: 186711

Ion Ratio Lower Upper

152 100

115 53.7 40.1 120.2

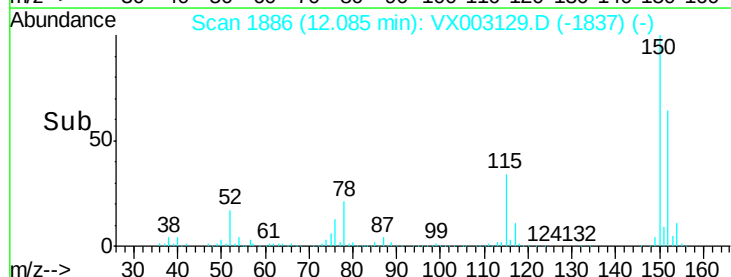
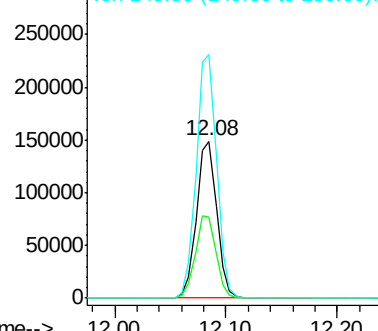
150 157.0 0.0 347.2

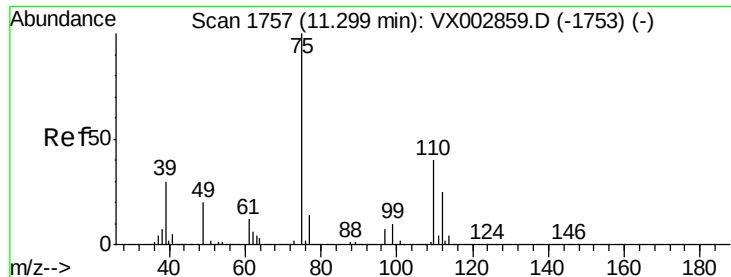


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

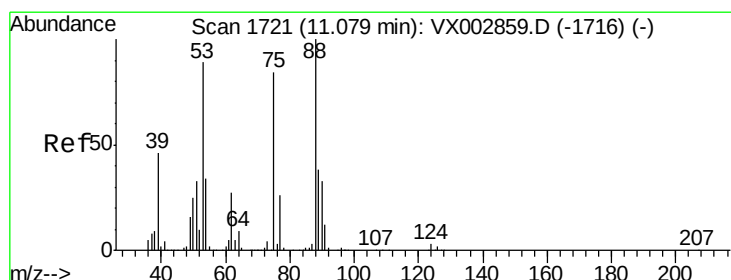
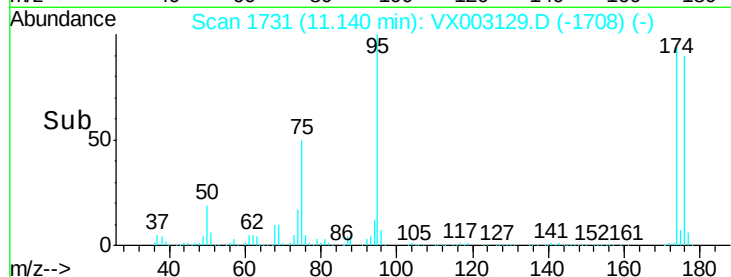
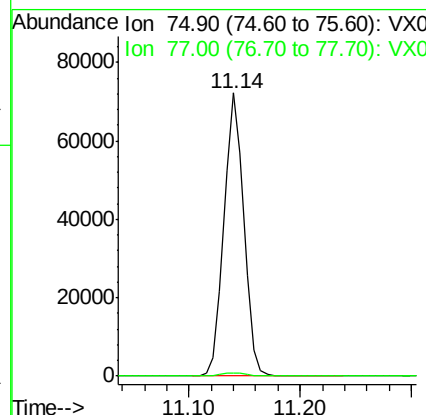
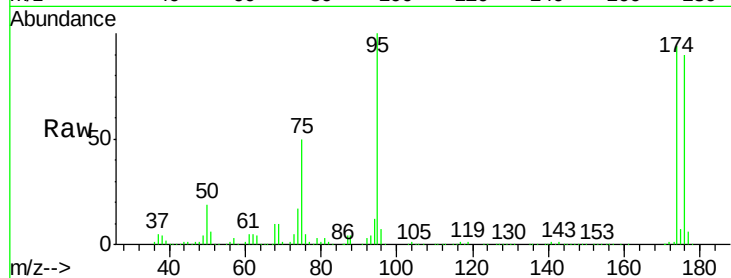




#76
 1,2,3-Trichloropropane
 Concen: 26.39 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003129.D
 Acq: 02 Jul 2018 16:10

Instrument :
 MSVOA_X
 ClientSampleId :
 SP18-GMZ5-ER1

Tot Ion: 75 Resp: 89251
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 74.78 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003129.D
 Acq: 02 Jul 2018 16:10

Tgt Ion: 75 Resp: 89251
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#

