

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062818\
 Data File : VX003013.D
 Acq On : 29 Jun 2018 04:56
 Operator : JC/MD
 Sample : J3695-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LIC-FIELDBLANK-1-06-20-18

Quant Time: Jun 29 07:59:35 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	279903	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	390425	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	364128	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	208319	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	184080	47.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.16%	
35) Dibromofluoromethane	5.51	113	150876	48.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.60%	
50) Toluene-d8	8.72	98	548730	48.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.20%	
62) 4-Bromofluorobenzene	11.14	95	194355	44.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.28%	

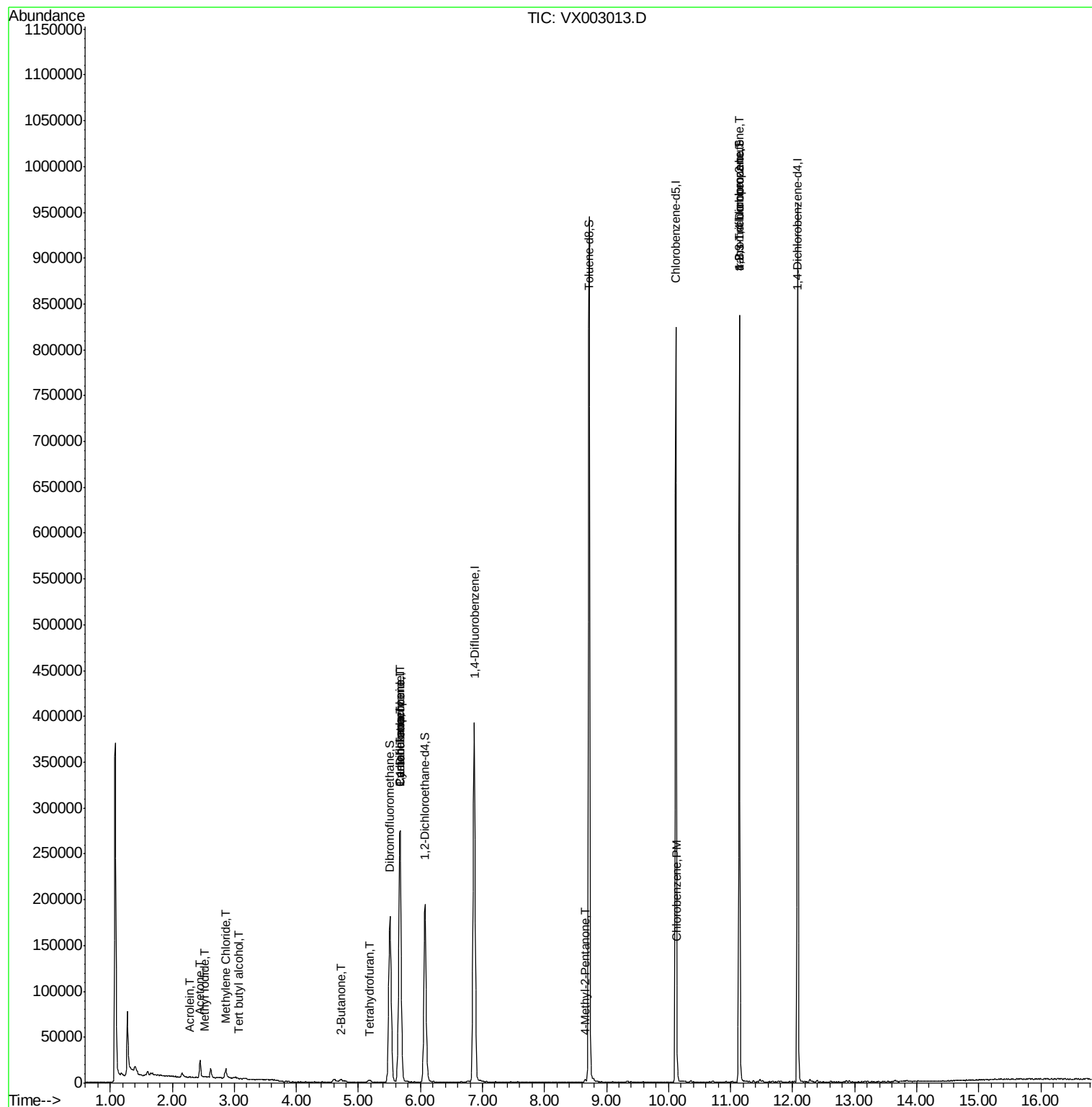
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	1.20	85	153	Below Cal	#	43
3) Chloromethane	1.32	50	1024	Below Cal	#	78
5) Bromomethane	1.65	94	2038	Below Cal		88
6) Chloroethane	1.70	64	233	Below Cal	#	43
10) Methyl Iodide	2.52	142	1990	6.78	ug/l	# 45
11) Tert butyl alcohol	3.07	59	358	0.46	ug/l	# 14
13) Acrolein	2.28	56	133	4.54	ug/l	92
16) Acetone	2.45	43	19099	11.92	ug/l	# 89
20) Methylene Chloride	2.86	84	5212	1.67	ug/l	88
25) 2-Butanone	4.71	43	4756	2.00	ug/l	98
29) Tetrahydrofuran	5.17	42	2121	1.39	ug/l	96
31) Cyclohexane	5.67	56	5784	1.19	ug/l	# 17
36) 1,1-Dichloropropene	5.67	75	18549	4.33	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	25133	5.35	ug/l	# 15
51) 4-Methyl-2-Pentanone	8.65	43	1833	0.38	ug/l	94
65) Chlorobenzene	10.14	112	2329	0.25	ug/l	# 85
76) 1,2,3-Trichloropropane	11.14	75	101616	26.93	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	101616	76.24	ug/l	# 6

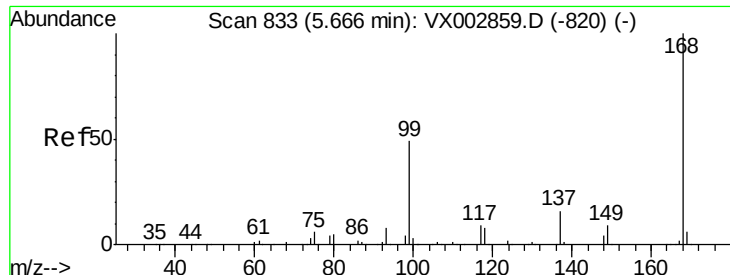
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jun 25 14:38:05 2018
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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: VX003013.D

Acq: 29 Jun 2018 04:56

Instrument :

MSVOA_X

ClientSampleId :

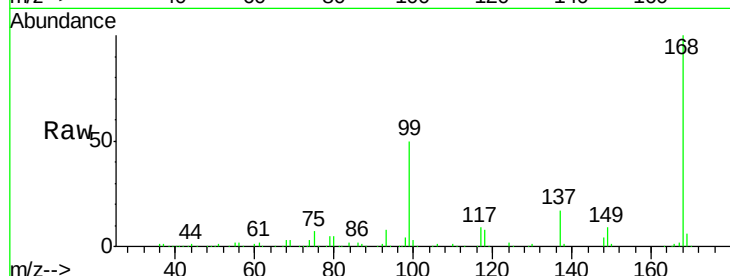
LIC-FIELDBLANK-1-06-20-18

Tot Ion:168 Resp: 279903

Ion Ratio Lower Upper

168 100

99 50.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

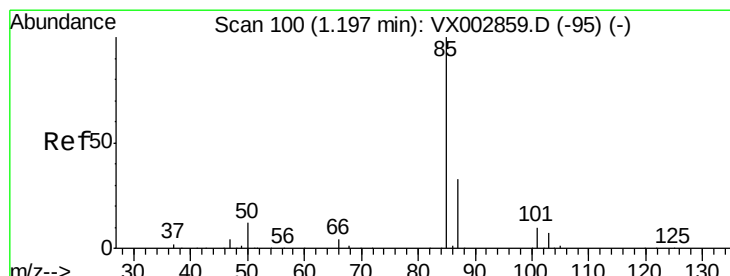
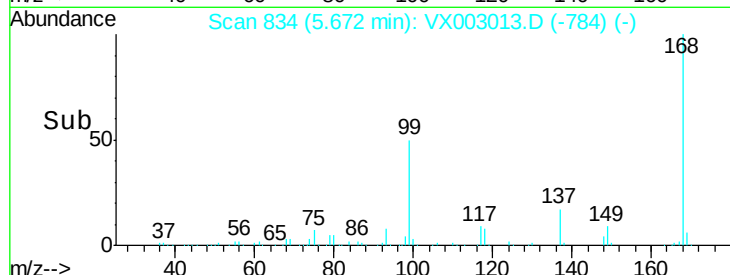
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX003013.D

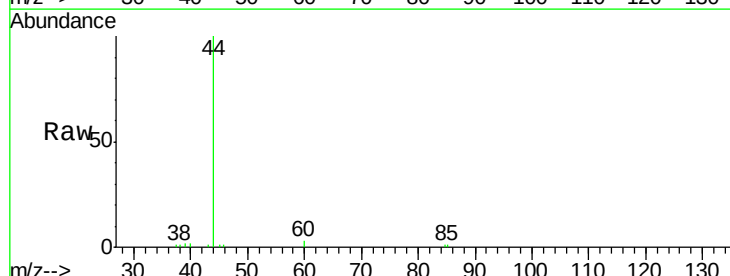
Acq: 29 Jun 2018 04:56

Tgt Ion: 85 Resp: 153

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

200

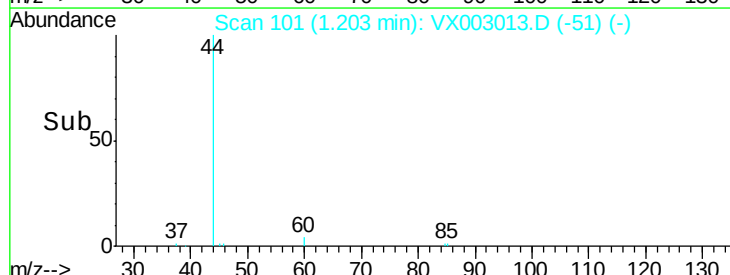
150

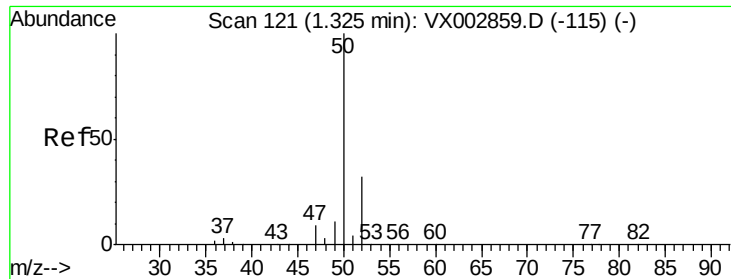
100

50

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: VX003013.D

Acq: 29 Jun 2018 04:56

Instrument :

MSVOA_X

ClientSampleId :

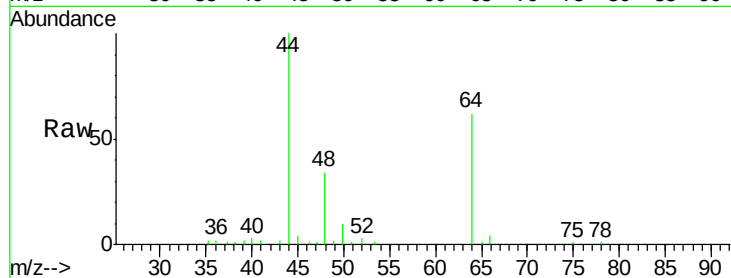
LIC-FIELDBLANK-1-06-20-18

Tot Ion: 50 Resp: 1024

Ion Ratio Lower Upper

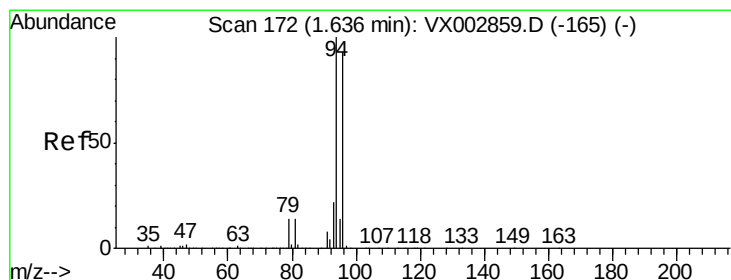
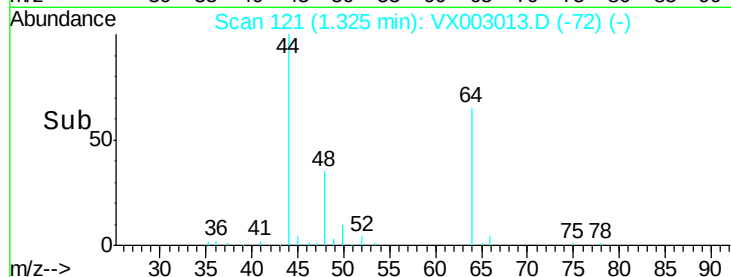
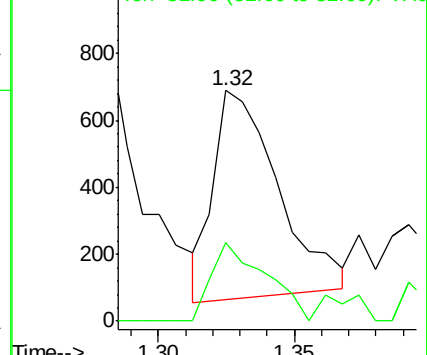
50 100

52 44.3 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# 175

Delta R.T. 0.02 min

Lab File: VX003013.D

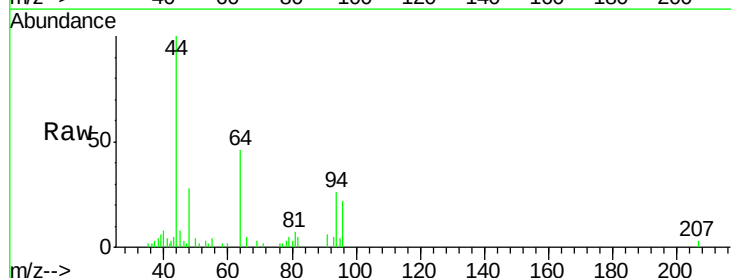
Acq: 29 Jun 2018 04:56

Tgt Ion: 94 Resp: 2038

Ion Ratio Lower Upper

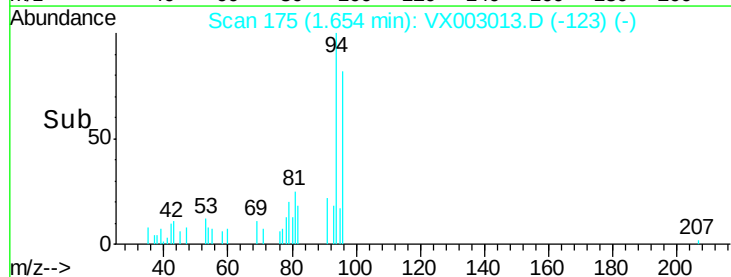
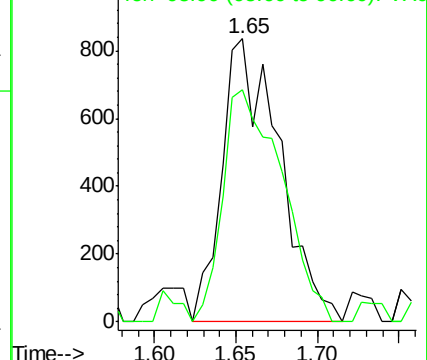
94 100

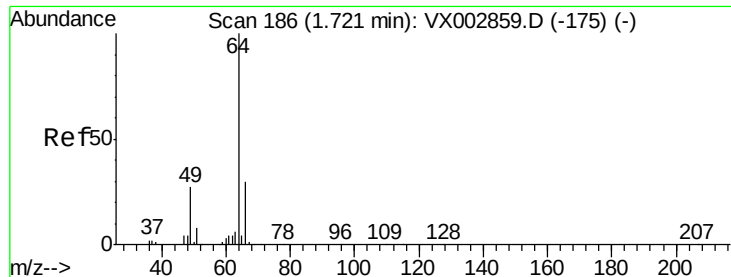
96 81.9 74.9 112.3



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: 1.70 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX003013.D

Acq: 29 Jun 2018 04:56

Instrument :

MSVOA_X

ClientSampleId :

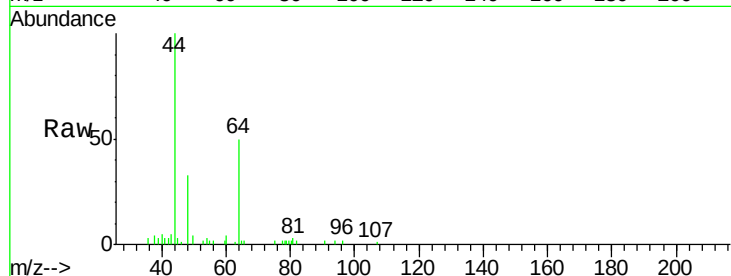
LIC-FIELDBLANK-1-06-20-18

Tot Ion: 64 Resp: 233

Ion Ratio Lower Upper

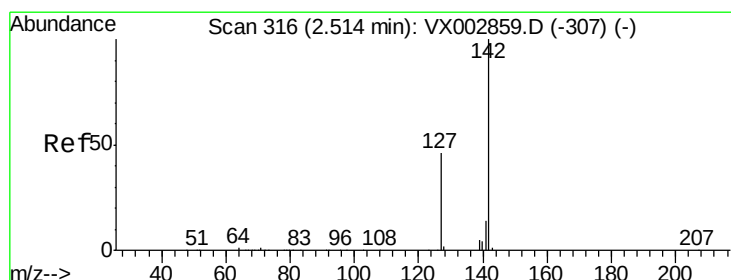
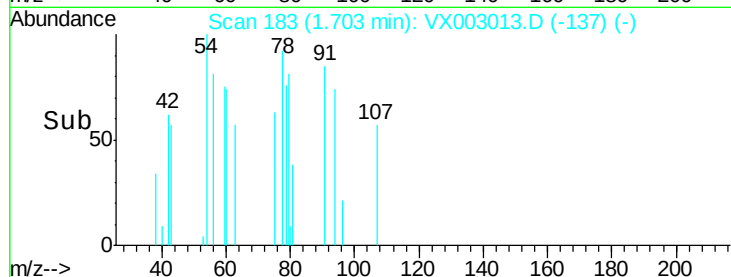
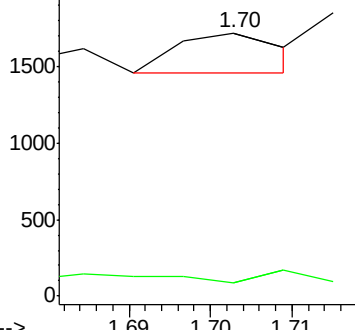
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 6.78 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003013.D

Acq: 29 Jun 2018 04:56

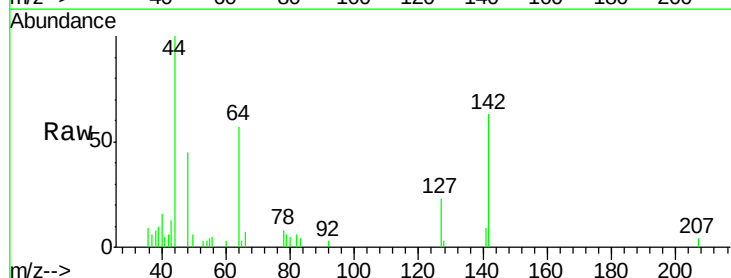
Tgt Ion: 142 Resp: 1990

Ion Ratio Lower Upper

142 100

127 0.0 36.6 55.0#

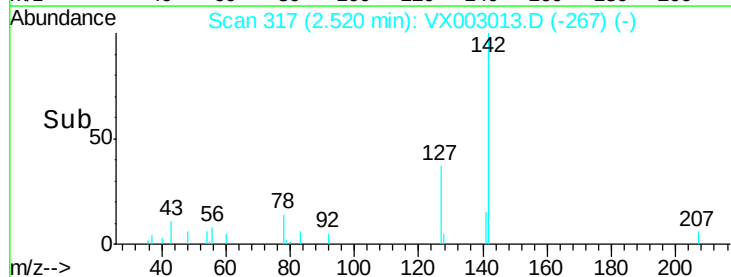
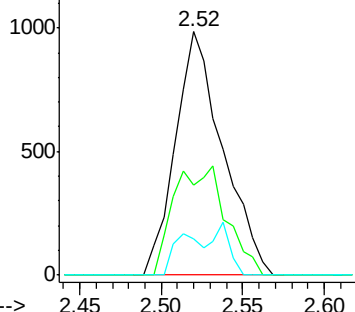
141 10.1 11.3 16.9#

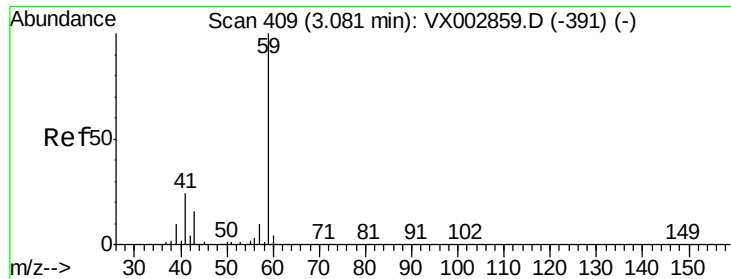


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

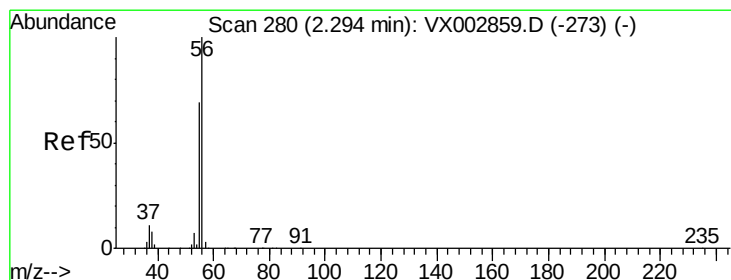
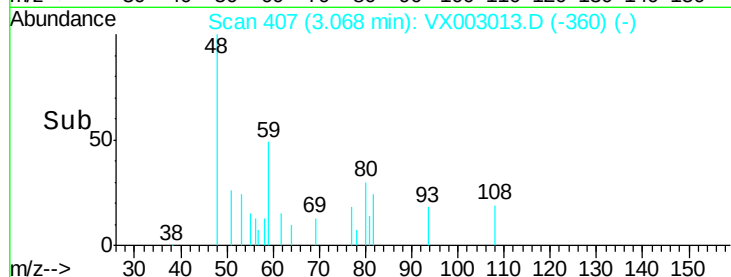
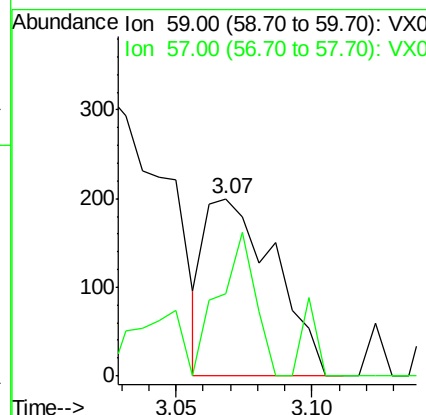
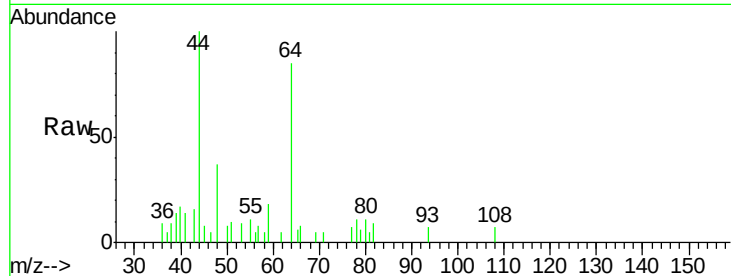




#11
Tert butyl alcohol
Concen: 0.46 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX003013.D
Acq: 29 Jun 2018 04:56

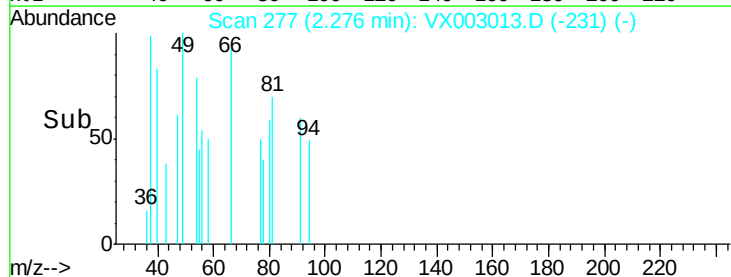
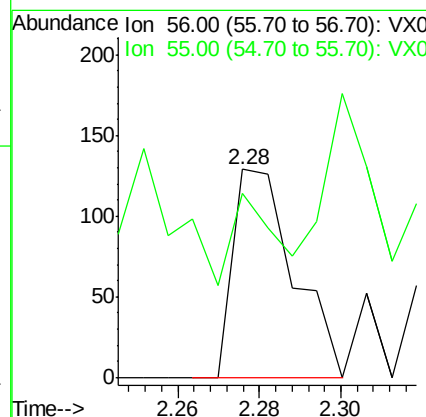
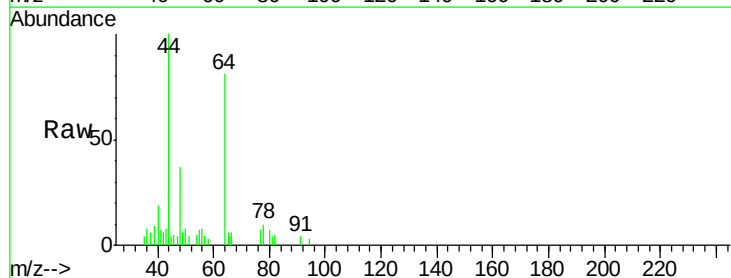
Instrument :
MSVOA_X
ClientSampleId :
LIC-FIELDBLANK-1-06-20-18

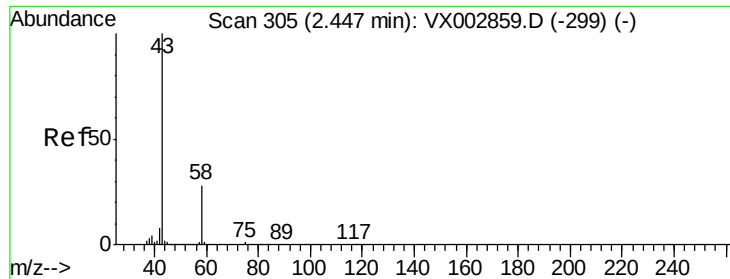
Tot Ion: 59 Resp: 358
Ion Ratio Lower Upper
59 100
57 42.2 8.2 12.2#



#13
Acrolein
Concen: 4.54 ug/l
RT: 2.28 min Scan# 277
Delta R.T. -0.02 min
Lab File: VX003013.D
Acq: 29 Jun 2018 04:56

Tgt Ion: 56 Resp: 133
Ion Ratio Lower Upper
56 100
55 77.4 57.0 85.4





#16

Acetone

Concen: 11.92 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003013.D

Acq: 29 Jun 2018 04:56

Instrument :

MSVOA_X

ClientSampleId :

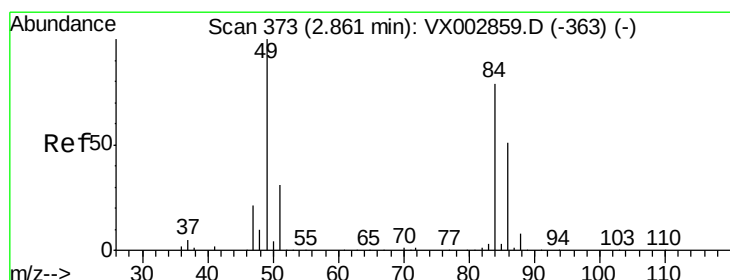
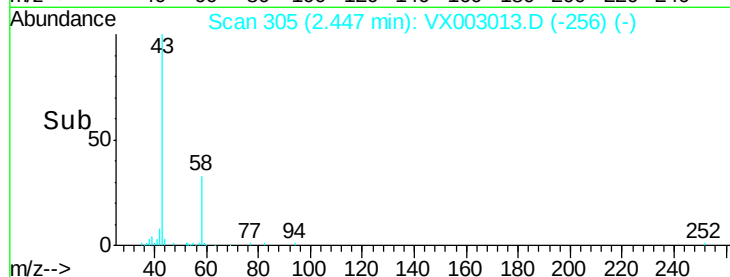
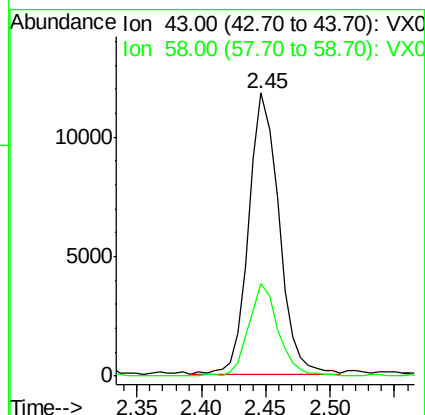
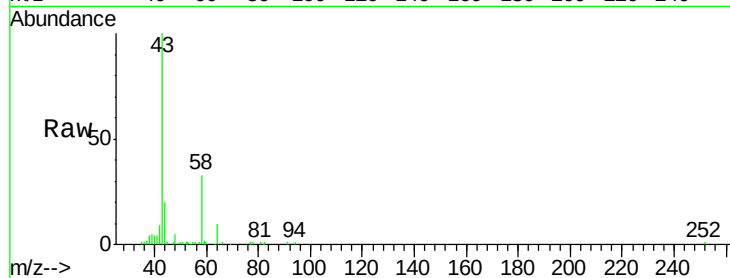
LIC-FIELDBLANK-1-06-20-18

Tot Ion: 43 Resp: 19099

Ion Ratio Lower Upper

43 100

58 33.2 22.1 33.1#



#20

Methylene Chloride

Concen: 1.67 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX003013.D

Acq: 29 Jun 2018 04:56

Tgt Ion: 84 Resp: 5212

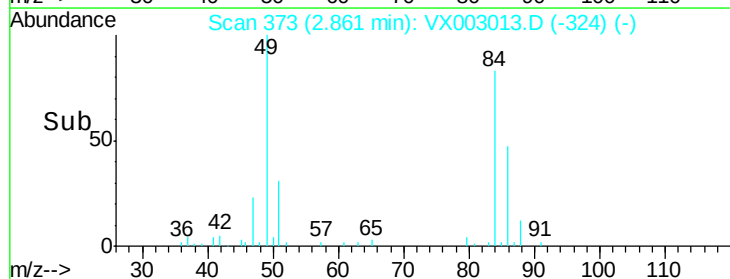
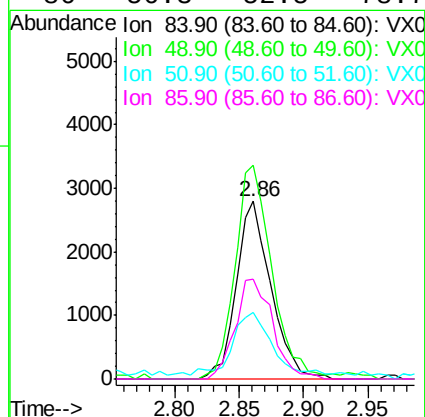
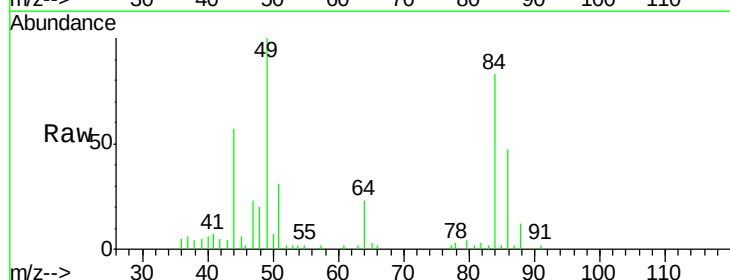
Ion Ratio Lower Upper

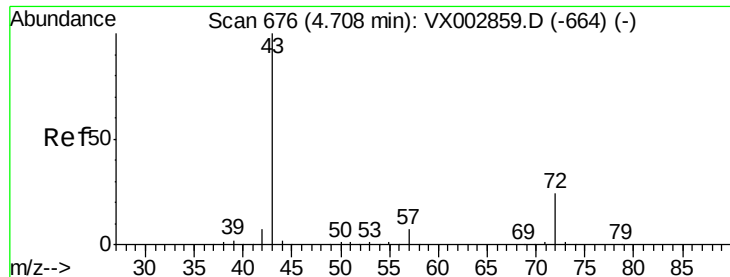
84 100

49 120.2 107.8 161.6

51 34.9 32.8 49.2

86 56.3 52.5 78.7





#25

2-Butanone

Concen: 2.00 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX003013.D

Acq: 29 Jun 2018 04:56

Instrument :

MSVOA_X

ClientSampleId :

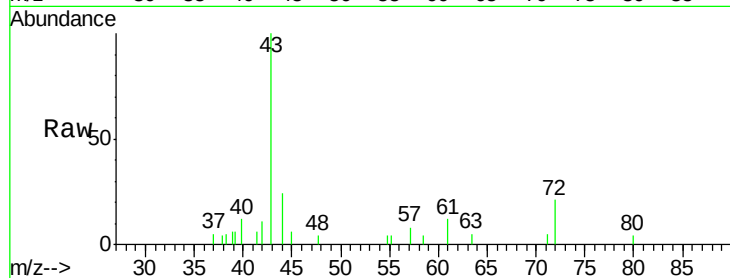
LIC-FIELDBLANK-1-06-20-18

Tot Ion: 43 Resp: 4756

Ion Ratio Lower Upper

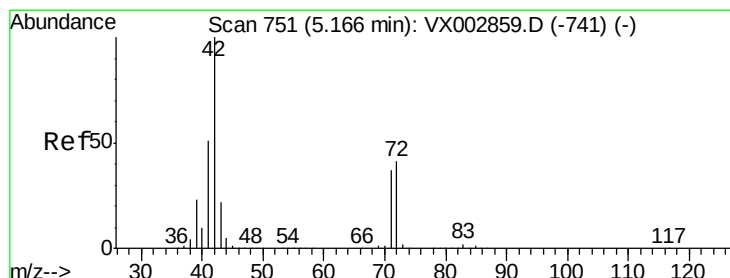
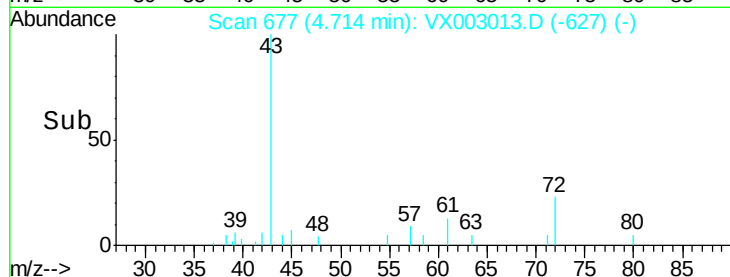
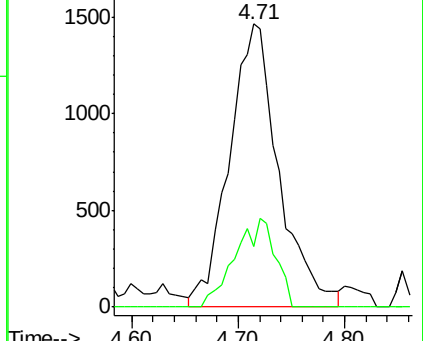
43 100

72 22.1 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: 1.39 ug/l

RT: 5.17 min Scan# 751

Delta R.T. -0.00 min

Lab File: VX003013.D

Acq: 29 Jun 2018 04:56

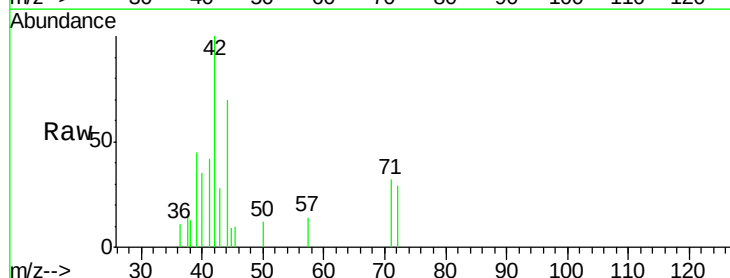
Tgt Ion: 42 Resp: 2121

Ion Ratio Lower Upper

42 100

72 36.7 32.0 48.0

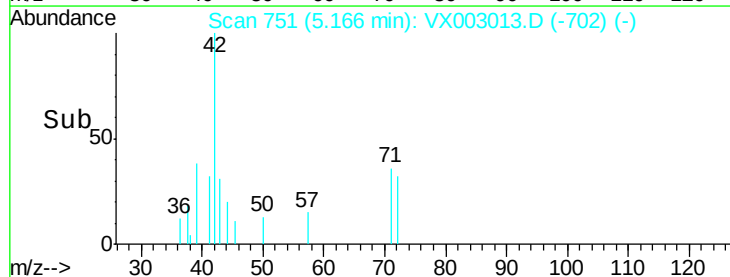
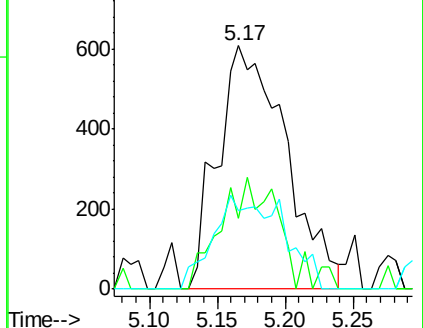
71 39.3 30.1 45.1

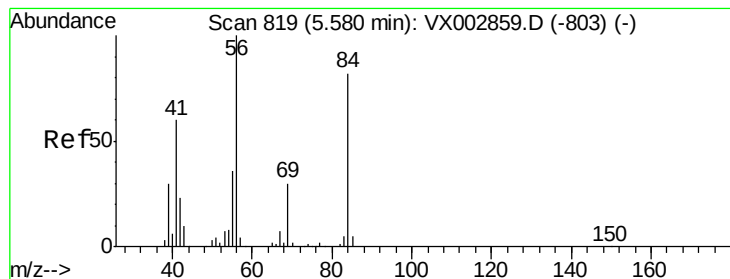


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.19 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX003013.D

Acq: 29 Jun 2018 04:56

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ClientSampleId :

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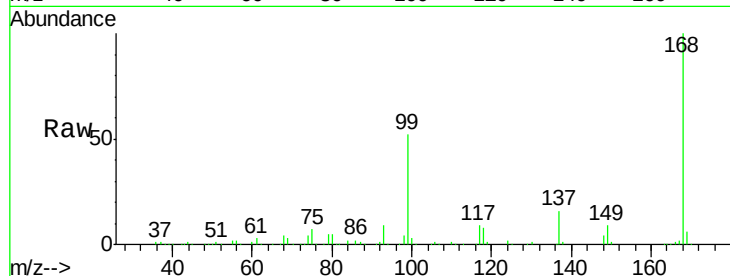
Tot Ion: 56 Resp: 5784

Ion Ratio Lower Upper

56 100

69 155.5 23.7 35.5#

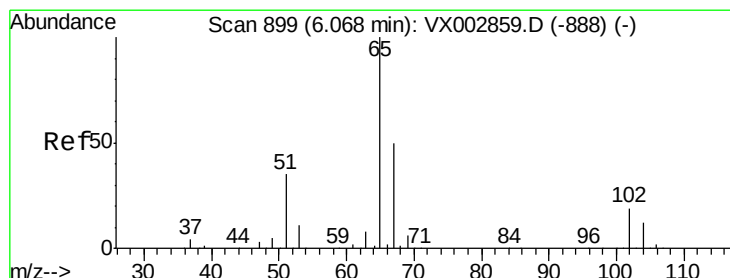
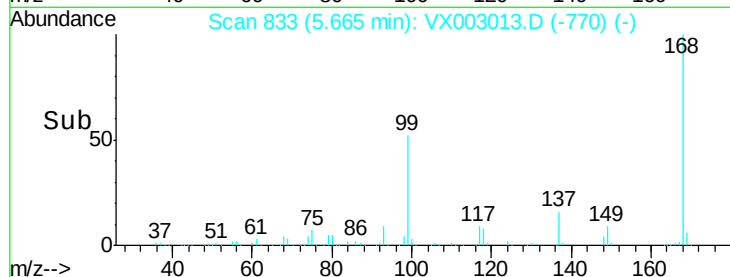
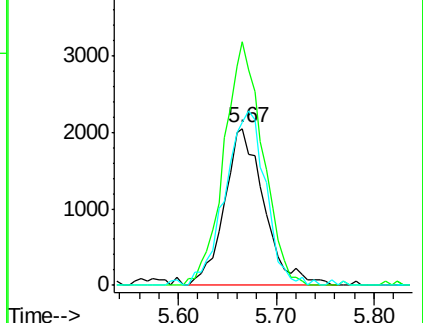
84 103.8 64.1 96.1#



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: 47.58 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003013.D

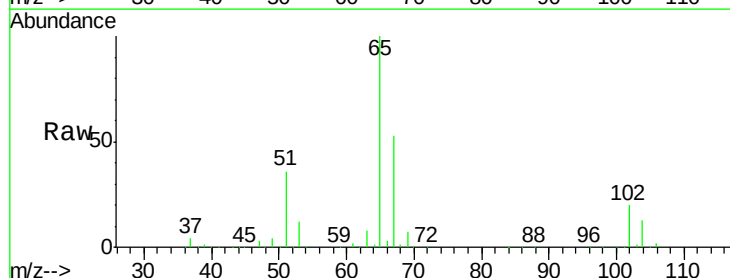
Acq: 29 Jun 2018 04:56

Tgt Ion: 65 Resp: 184080

Ion Ratio Lower Upper

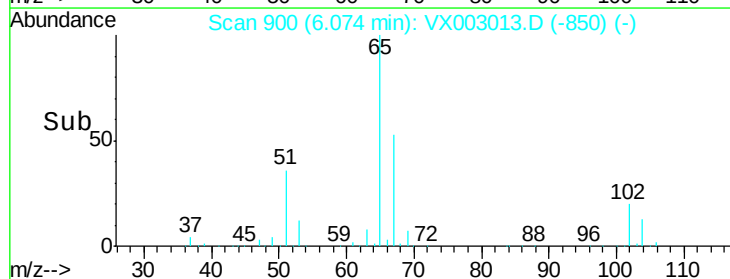
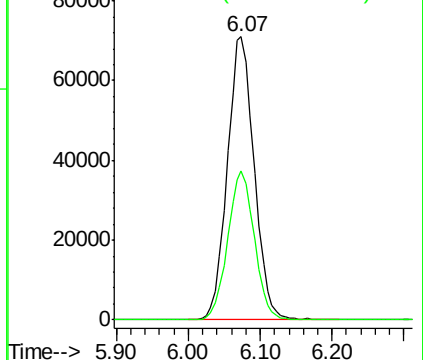
65 100

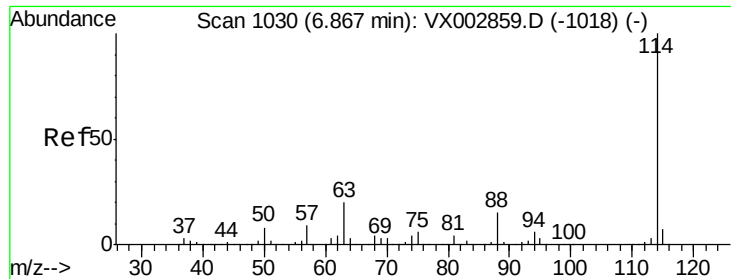
67 52.2 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

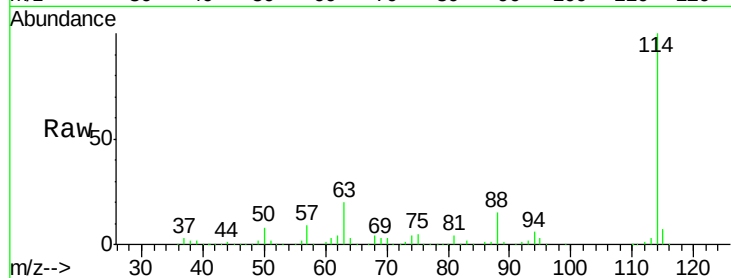




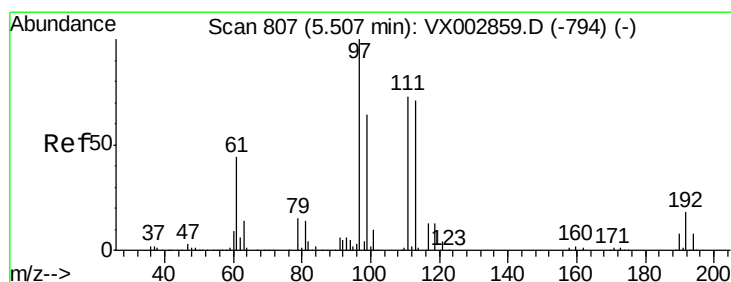
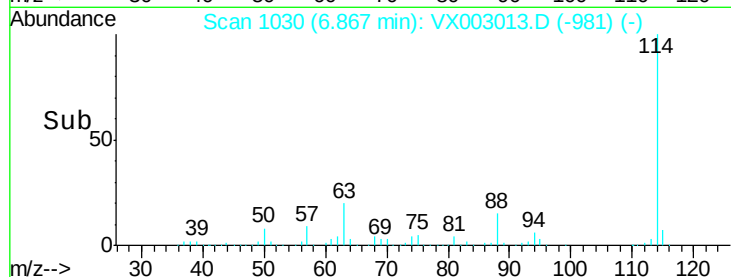
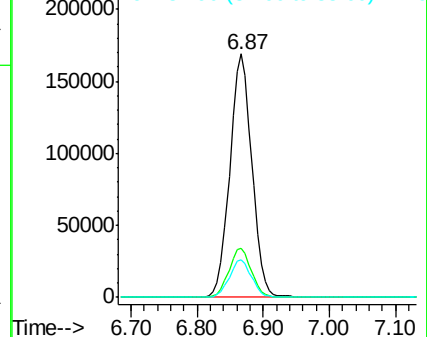
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003013.D
 Acq: 29 Jun 2018 04:56

Instrument :
 MSVOA_X
 ClientSampleId :
 LIC-FIELDBLANK-1-06-20-18

Tot Ion:114 Resp: 390425
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 41.4
 88 15.4 0.0 30.0

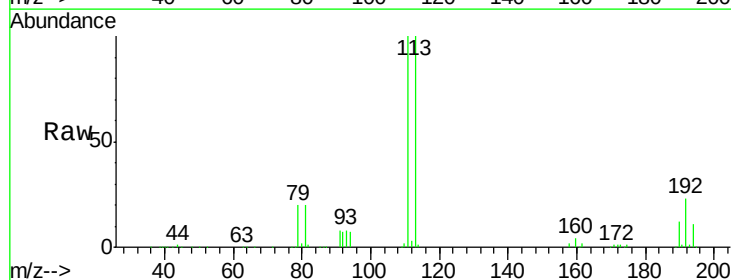


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

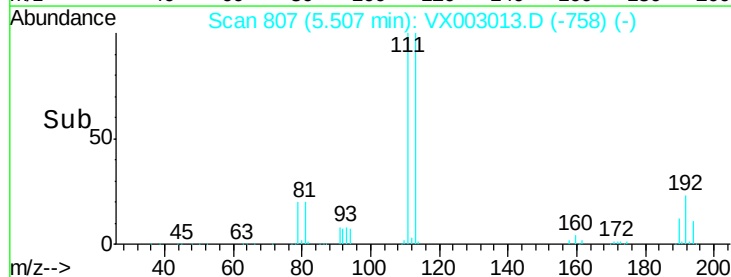
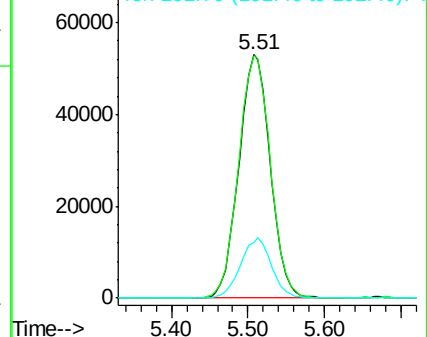


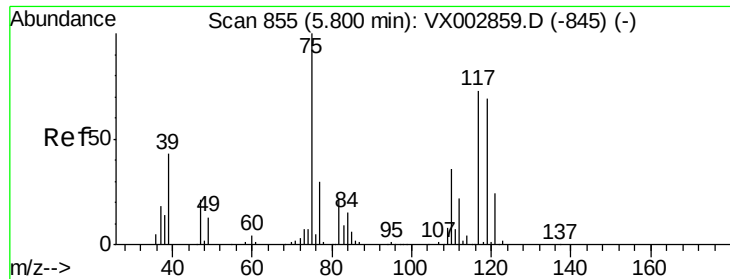
#35
 Dibromofluoromethane
 Concen: 48.80 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX003013.D
 Acq: 29 Jun 2018 04:56

Tgt Ion:113 Resp: 150876
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.4 122.0
 192 24.3 19.1 28.7



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: 4.33 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003013.D

Acq: 29 Jun 2018 04:56

Instrument :

MSVOA_X

ClientSampleId :

LIC-FIELDBLANK-1-06-20-18

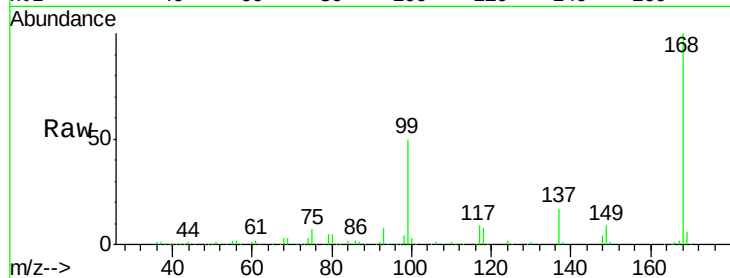
Tot Ion: 75 Resp: 18549

Ion Ratio Lower Upper

75 100

110 11.2 18.1 54.4#

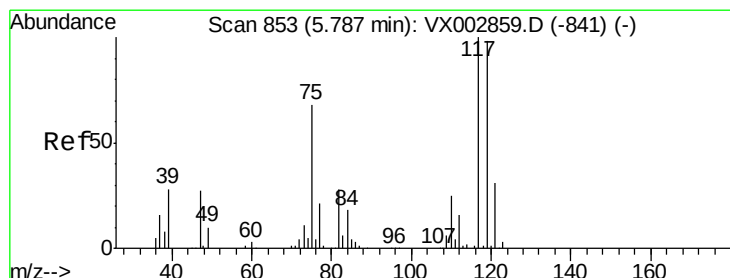
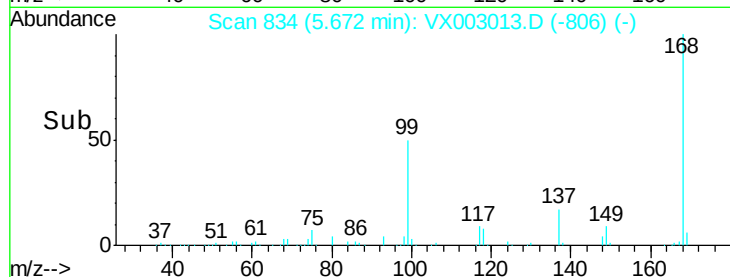
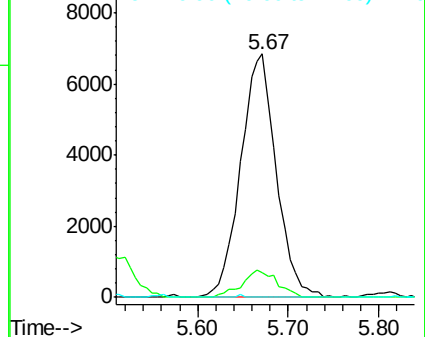
77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.35 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX003013.D

Acq: 29 Jun 2018 04:56

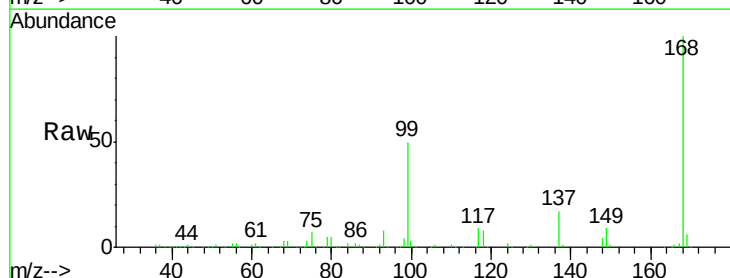
Tgt Ion: 117 Resp: 25133

Ion Ratio Lower Upper

117 100

119 4.6 77.4 116.0#

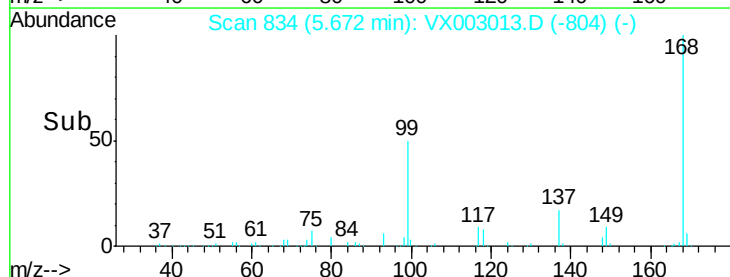
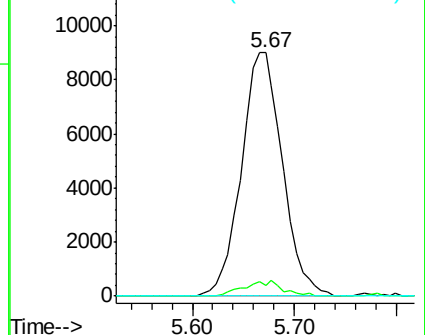
121 0.0 24.4 36.6#

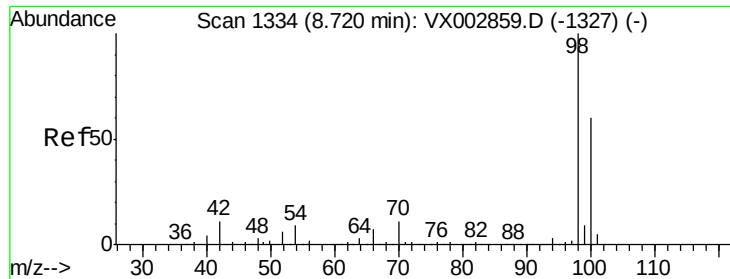


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

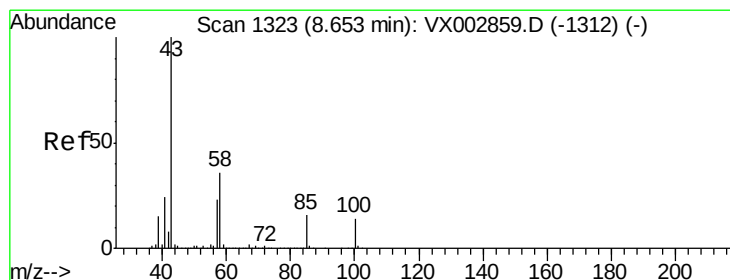
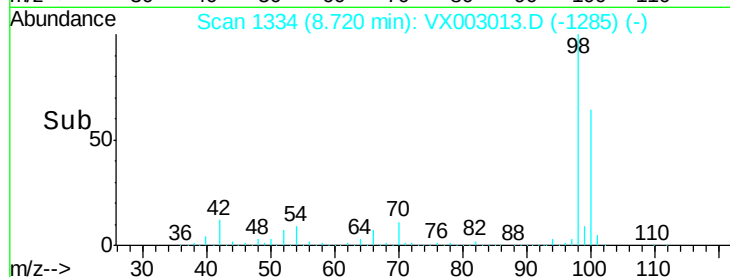
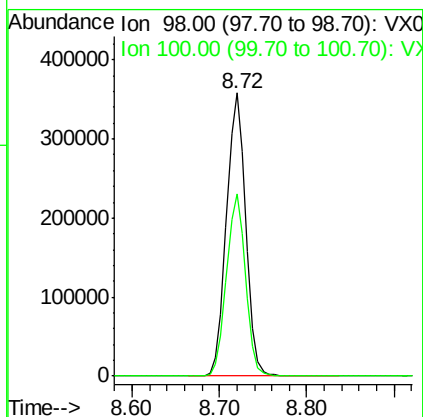
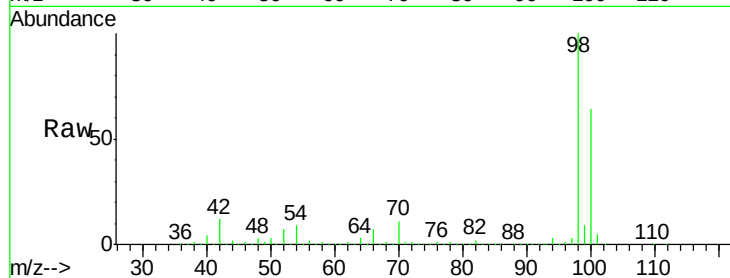




#50
Toluene-d8
Concen: 48.60 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003013.D
Acq: 29 Jun 2018 04:56

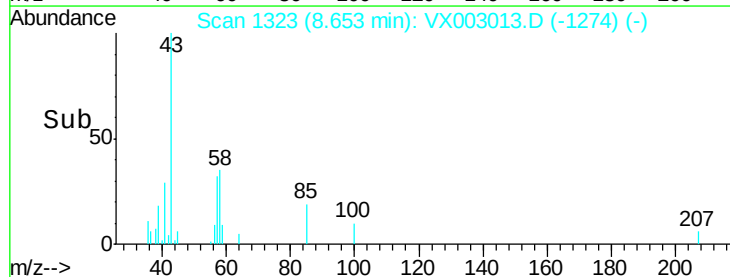
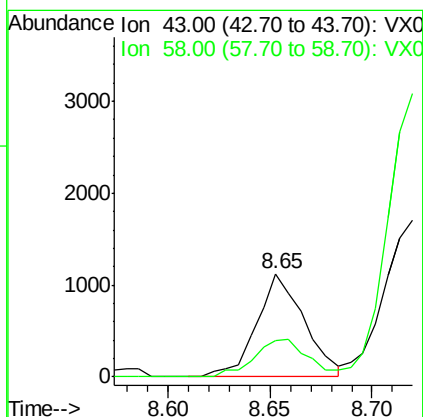
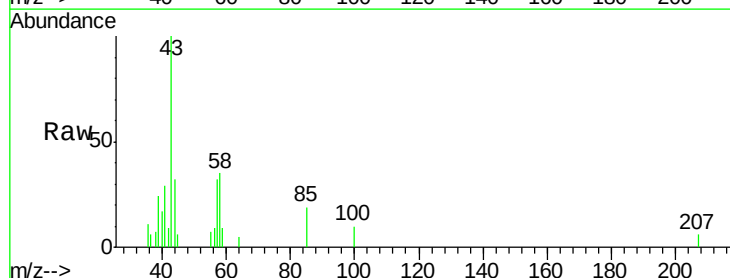
Instrument :
MSVOA_X
ClientSampleId :
LIC-FIELDBLANK-1-06-20-18

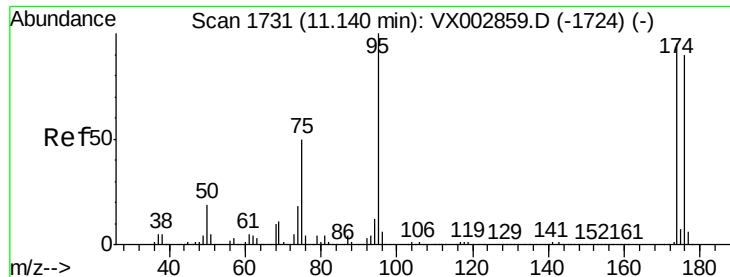
Tot Ion: 98 Resp: 548730
Ion Ratio Lower Upper
98 100
100 63.5 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.38 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.00 min
Lab File: VX003013.D
Acq: 29 Jun 2018 04:56

Tgt Ion: 43 Resp: 1833
Ion Ratio Lower Upper
43 100
58 39.5 28.6 42.8





#62

4-Bromofluorobenzene

Concen: 44.64 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003013.D

Acq: 29 Jun 2018 04:56

Instrument :

MSVOA_X

ClientSampleId :

LIC-FIELDBLANK-1-06-20-18

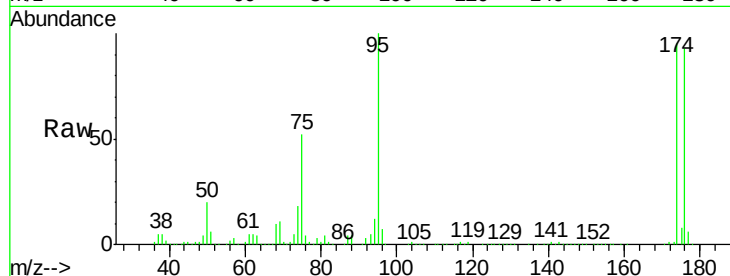
Tot Ion: 95 Resp: 194355

Ion Ratio Lower Upper

95 100

174 98.5 0.0 187.4

176 95.5 0.0 181.0

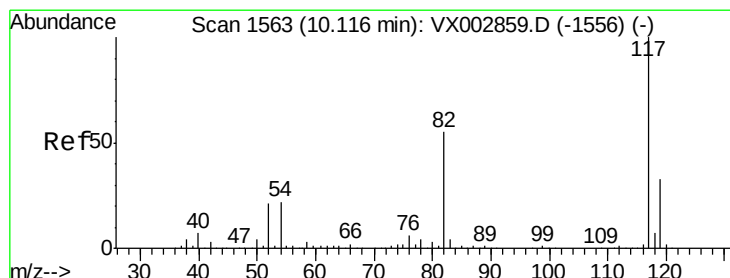
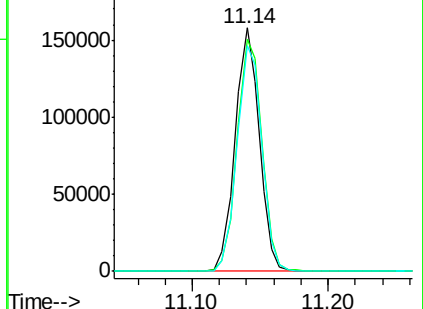
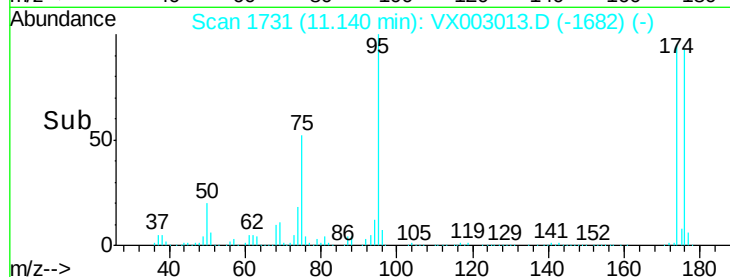


Abundance Ion 94.90 (94.60 to 95.60): VX002859.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002859.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002859.D (-1724) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX003013.D

Acq: 29 Jun 2018 04:56

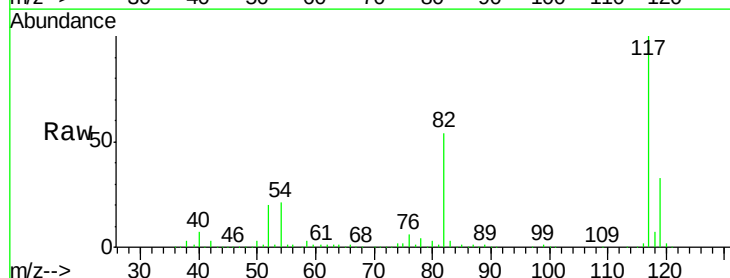
Tgt Ion: 117 Resp: 364128

Ion Ratio Lower Upper

117 100

82 54.3 45.0 67.4

119 32.6 25.8 38.6

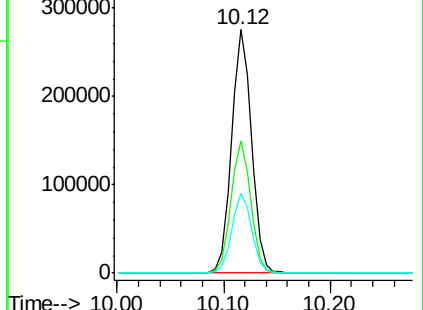
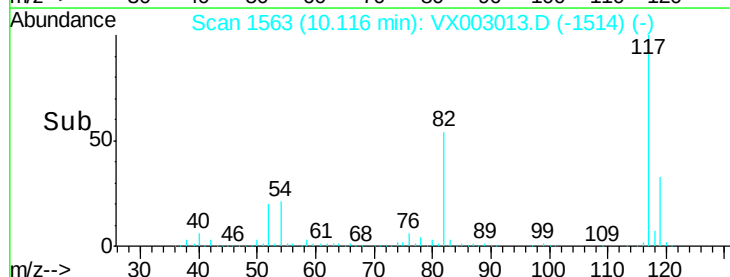


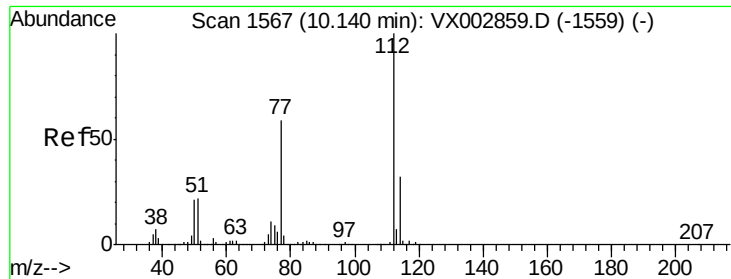
Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX002859.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX002859.D (-1556) (-)

Time-->

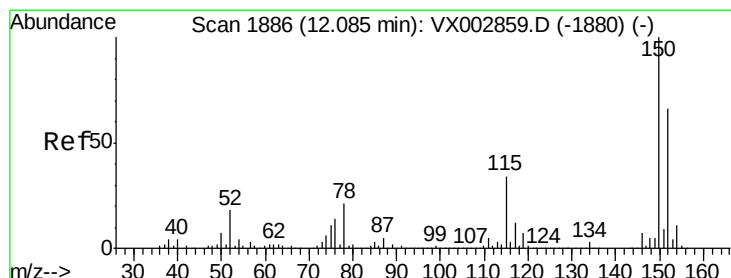
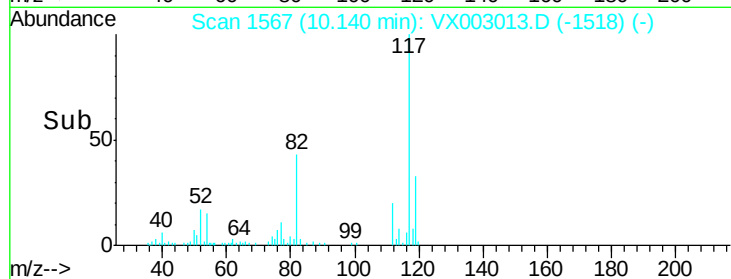
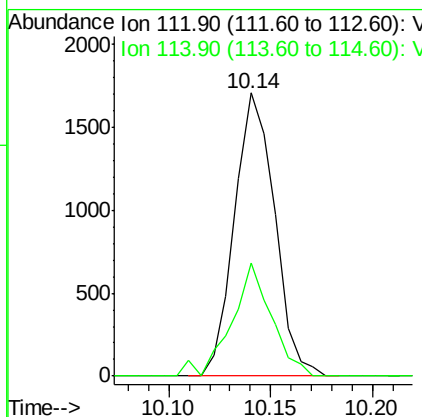
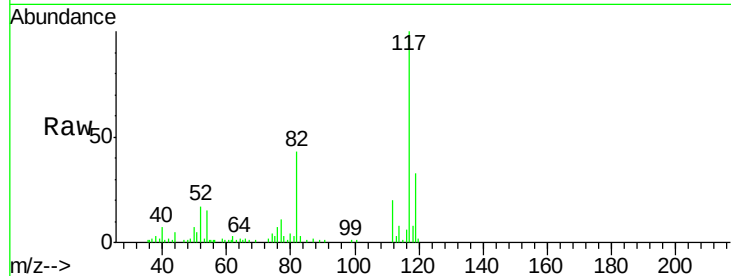




#65
Chlorobenzene
Concen: 0.25 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX003013.D
Acq: 29 Jun 2018 04:56

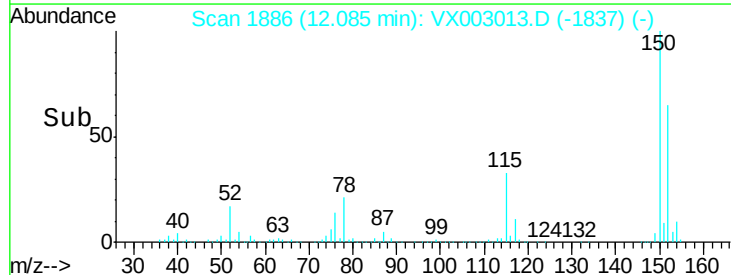
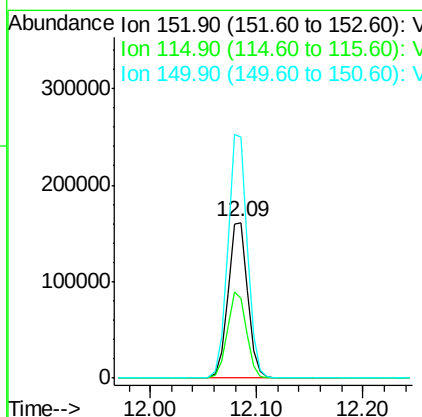
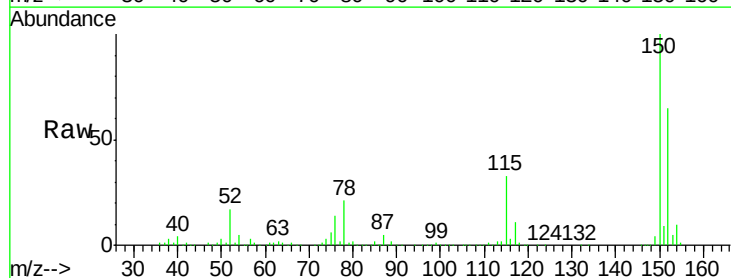
Instrument :
MSVOA_X
ClientSampleId :
LIC-FIELDBLANK-1-06-20-18

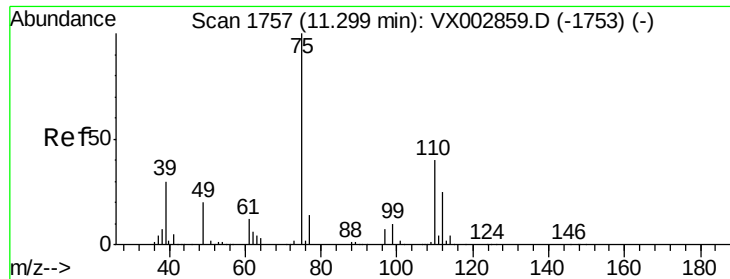
Tot Ion:112 Resp: 2329
Ion Ratio Lower Upper
112 100
114 40.2 25.3 37.9#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX003013.D
Acq: 29 Jun 2018 04:56

Tgt Ion:152 Resp: 208319
Ion Ratio Lower Upper
152 100
115 53.8 40.1 120.2
150 155.2 0.0 347.2

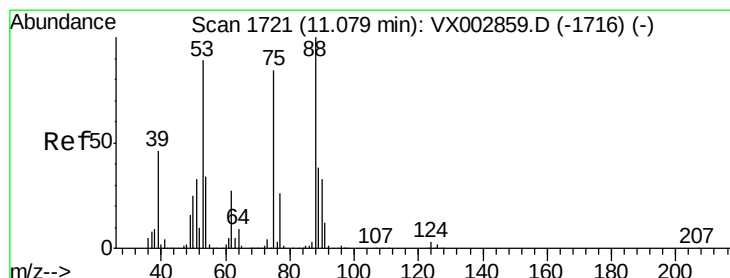
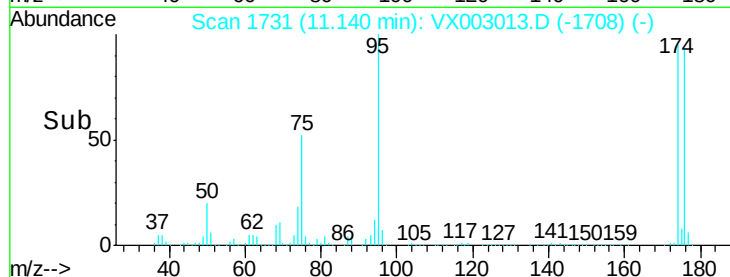
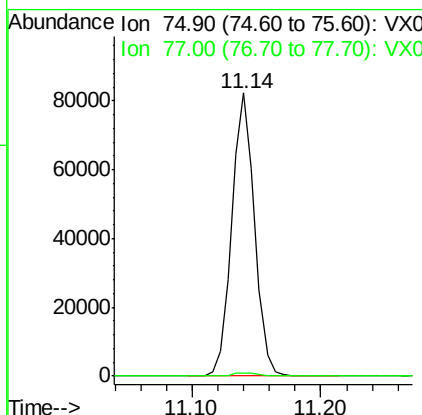
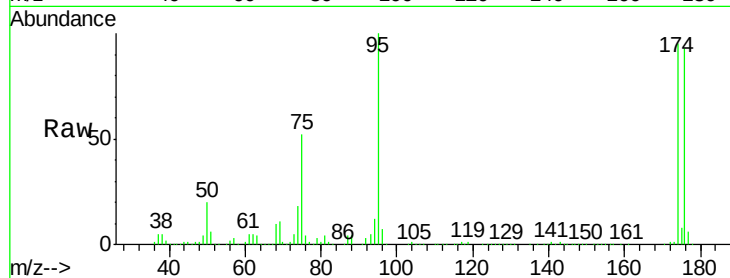




#76
 1,2,3-Trichloropropane
 Concen: 26.93 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003013.D
 Acq: 29 Jun 2018 04:56

Instrument :
 MSVOA_X
 ClientSampleId :
 LIC-FIELDBLANK-1-06-20-18

Tot Ion: 75 Resp: 101616
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.24 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003013.D
 Acq: 29 Jun 2018 04:56

Tgt Ion: 75 Resp: 101616
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.8 130.2#
 89 0.0 38.2 57.2#

