

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX041318\
 Data File : VX000858.D
 Acq On : 13 Apr 2018 19:00
 Operator : JC/MD
 Sample : J2364-12 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SP-C

Quant Time: Apr 14 05:15:53 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 10 15:49:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	247707	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	328930	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	295082	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	186047	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	142602	45.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.32%	
35) Dibromofluoromethane	5.51	113	116363	45.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.84%	
50) Toluene-d8	8.72	98	449913	47.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.36%	
62) 4-Bromofluorobenzene	11.15	95	170486	43.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.34%	

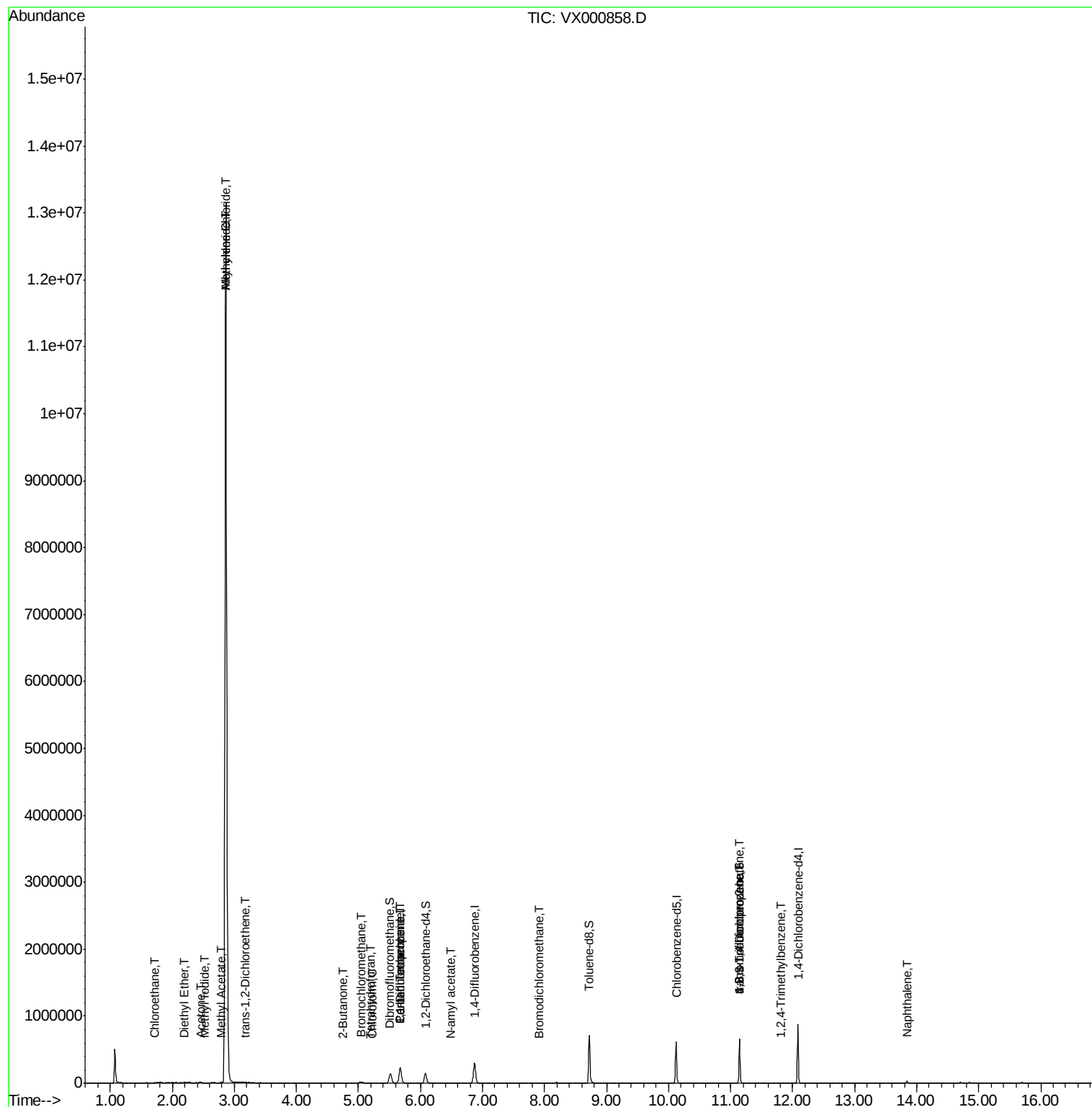
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	267	Below Cal	#	37
6) Chloroethane	1.72	64	1375	0.84	ug/l	# 69
8) Diethyl Ether	2.19	74	312	0.21	ug/l	92
10) Methyl Iodide	2.53	142	101	8.28	ug/l	# 89
14) Allyl chloride	2.86	41	254392	60.51	ug/l	# 27
16) Acetone	2.45	43	3681	3.42	ug/l	99
18) Methyl Acetate	2.79	43	4477	1.61	ug/l	94
20) Methylene Chloride	2.86	84	6510892	2599.01	ug/l	96
21) trans-1,2-Dichloroethene	3.17	96	517	0.21	ug/l	# 76
25) 2-Butanone	4.75	43	662	0.37	ug/l	# 77
28) Bromochloromethane	5.04	49	13673	7.83	ug/l	100
29) Tetrahydrofuran	5.20	42	824	0.73	ug/l	# 61
30) Chloroform	5.22	83	1879	0.41	ug/l	91
36) 1,1-Dichloropropene	5.67	75	15161	4.19	ug/l	# 48
38) Carbon Tetrachloride	5.67	117	21164	5.22	ug/l	# 16
47) Bromodichloromethane	7.92	83	762	0.21	ug/l	# 88
74) N-amyl acetate	6.48	43	1100	0.21	ug/l	# 57
76) 1,2,3-Trichloropropane	11.14	75	82515	25.72	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	82515	70.74	ug/l	# 11
84) 1,2,4-Trimethylbenzene	11.81	105	2863	0.27	ug/l	90
95) Naphthalene	13.84	128	16687	1.23	ug/l	99

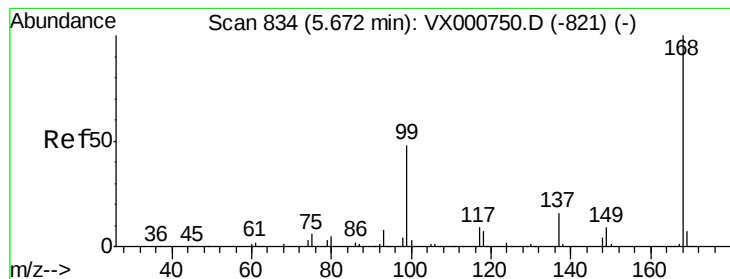
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :
SP-C

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Quant Title : SW846 8260
QLast Update : Tue Apr 10 15:49:28 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX000858.D

Acq: 13 Apr 2018 19:00

Instrument :

MSVOA_X

ClientSampled :

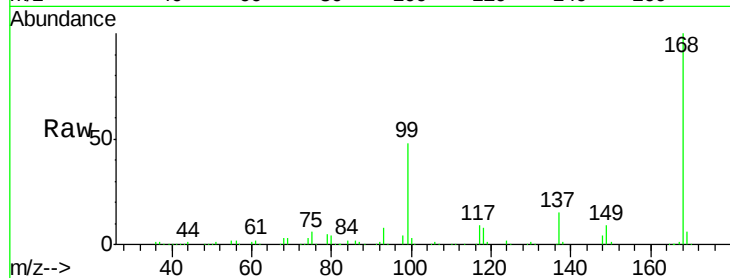
SP-C

Tgt Ion:168 Resp: 247707

Ion Ratio Lower Upper

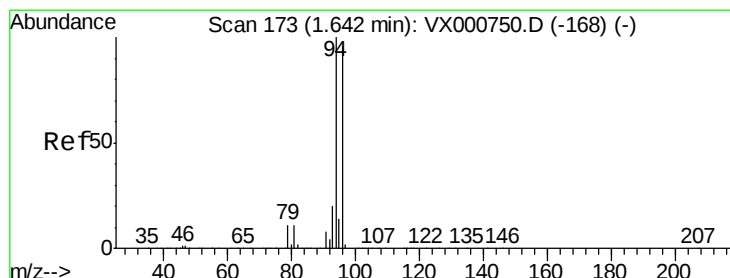
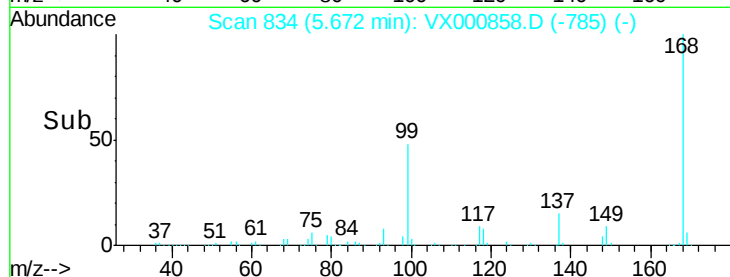
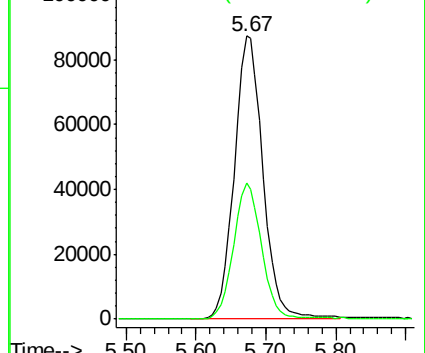
168 100

99 47.9 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX000858.D

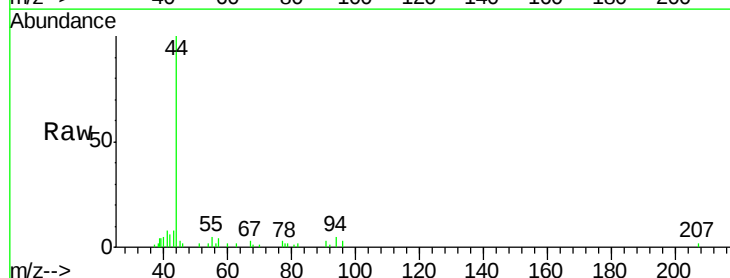
Acq: 13 Apr 2018 19:00

Tgt Ion: 94 Resp: 267

Ion Ratio Lower Upper

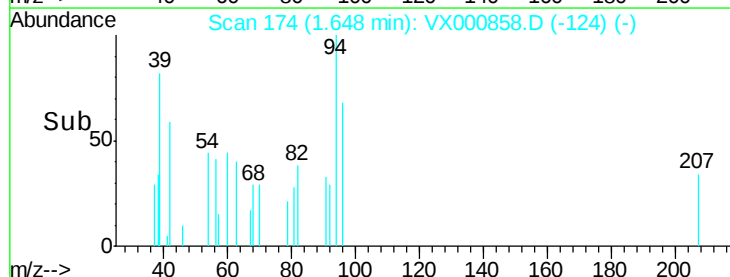
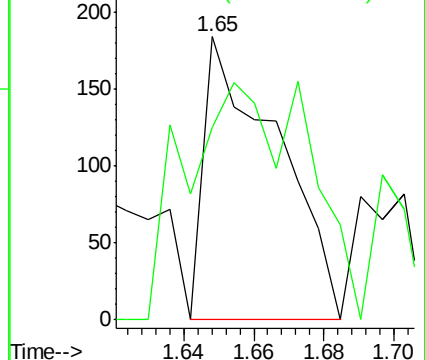
94 100

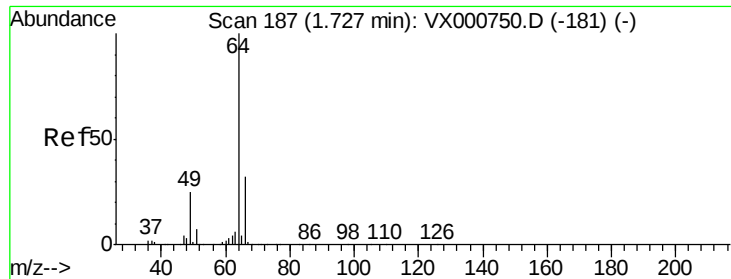
96 34.2 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.84 ug/l

RT: 1.72 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX000858.D

Acq: 13 Apr 2018 19:00

Instrument :

MSVOA_X

ClientSampleId :

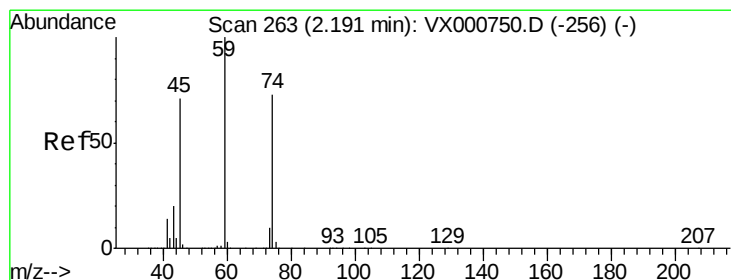
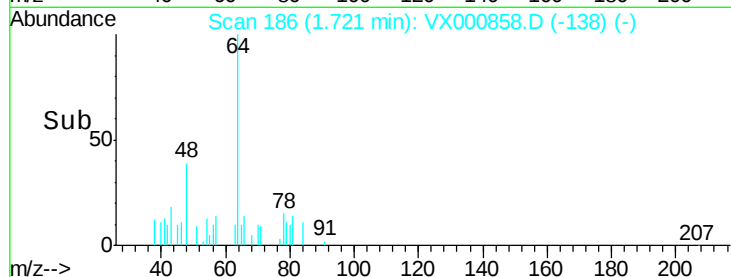
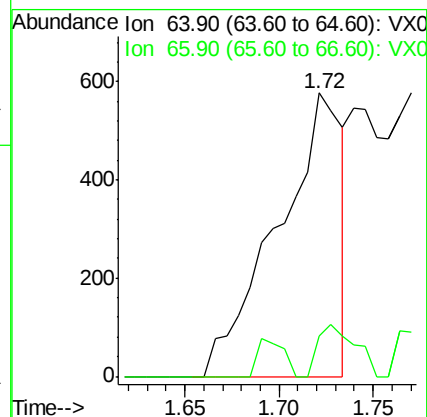
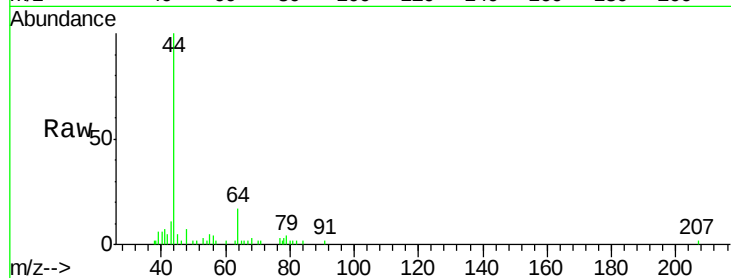
SP-C

Tgt Ion: 64 Resp: 1375

Ion Ratio Lower Upper

64 100

66 14.4 25.3 37.9#



#8

Diethyl Ether

Concen: 0.21 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX000858.D

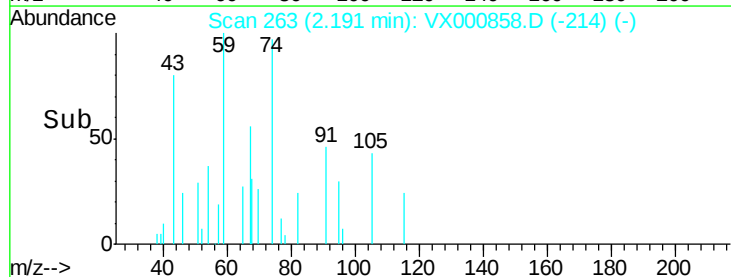
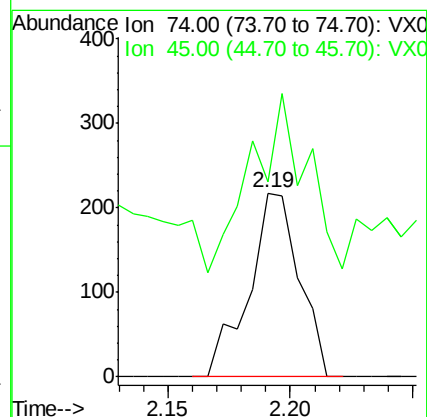
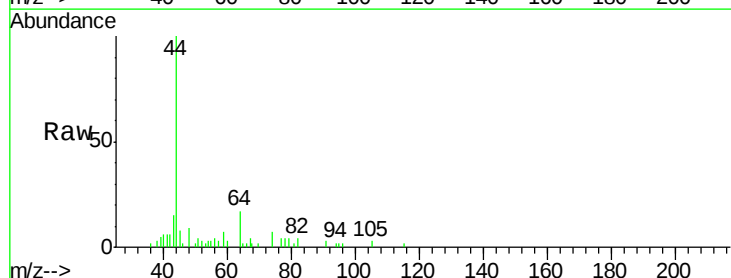
Acq: 13 Apr 2018 19:00

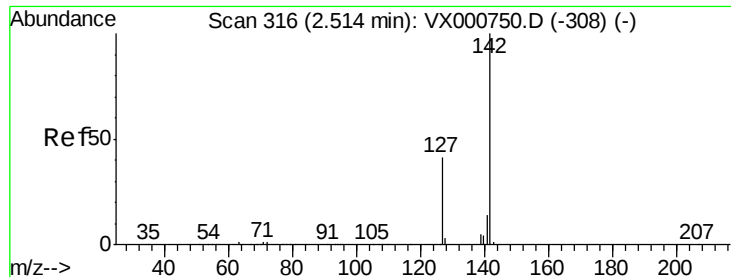
Tgt Ion: 74 Resp: 312

Ion Ratio Lower Upper

74 100

45 105.1 48.6 145.8

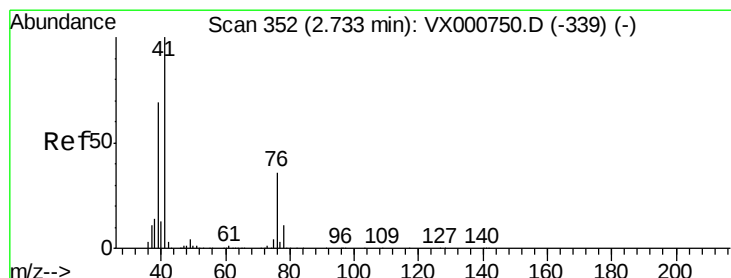
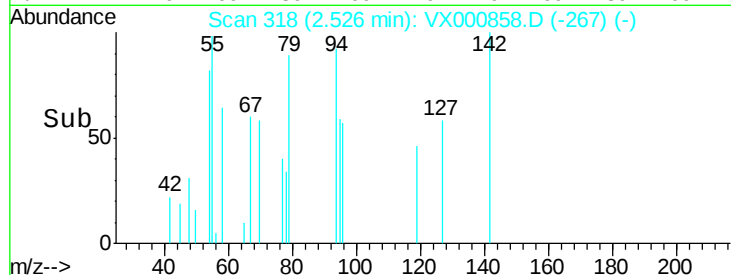
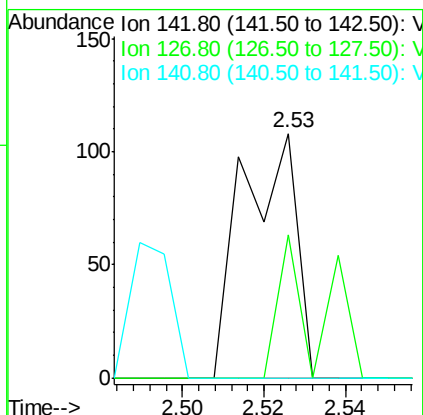
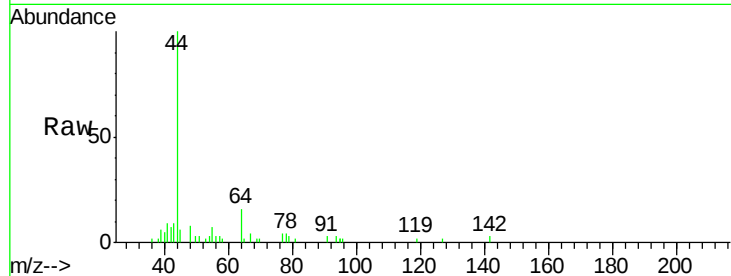




#10
Methyl Iodide
Concen: 8.28 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX000858.D
Acq: 13 Apr 2018 19:00

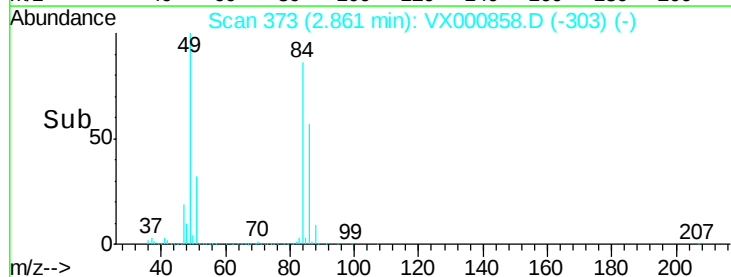
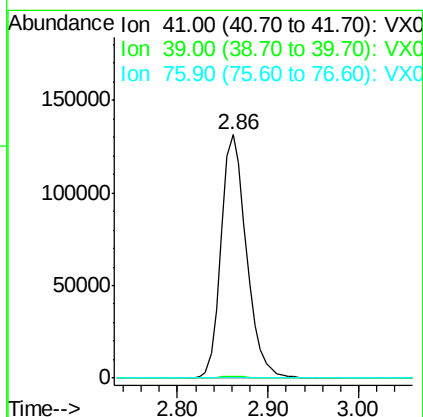
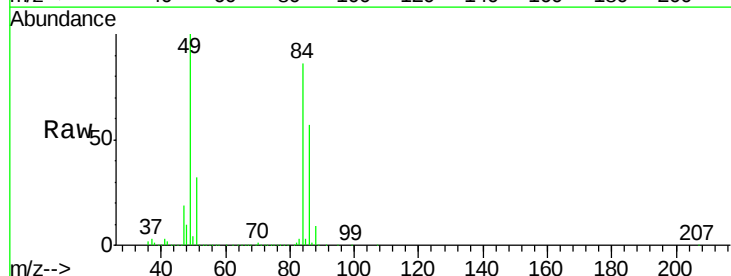
Instrument :
MSVOA_X
ClientSampled :
SP-C

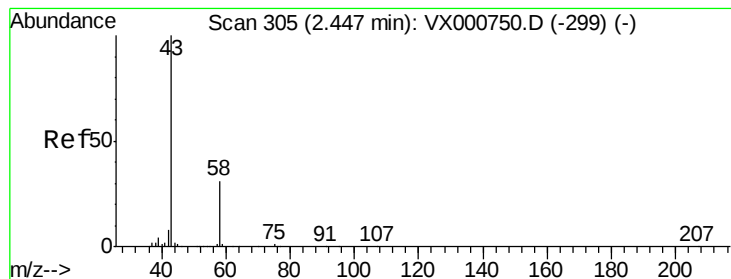
Tgt Ion: 142 Resp: 101
Ion Ratio Lower Upper
142 100
127 42.6 32.6 49.0
141 0.0 11.5 17.3#



#14
Allyl chloride
Concen: 60.51 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.13 min
Lab File: VX000858.D
Acq: 13 Apr 2018 19:00

Tgt Ion: 41 Resp: 254392
Ion Ratio Lower Upper
41 100
39 0.9 51.5 77.3#
76 0.0 26.5 39.7#





#16

Acetone

Concen: 3.42 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX000858.D

Acq: 13 Apr 2018 19:00

Instrument :

MSVOA_X

ClientSampleId :

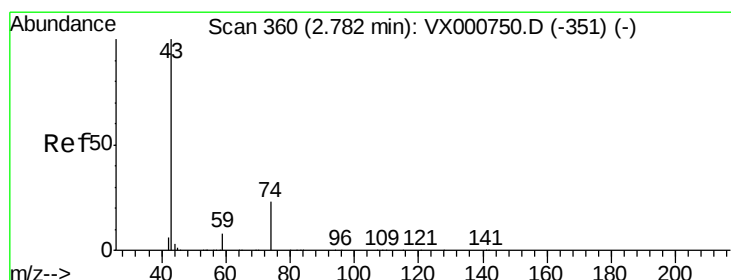
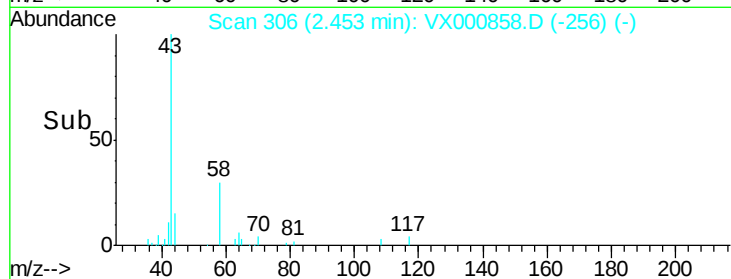
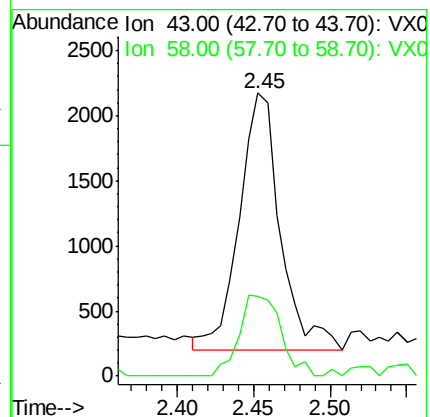
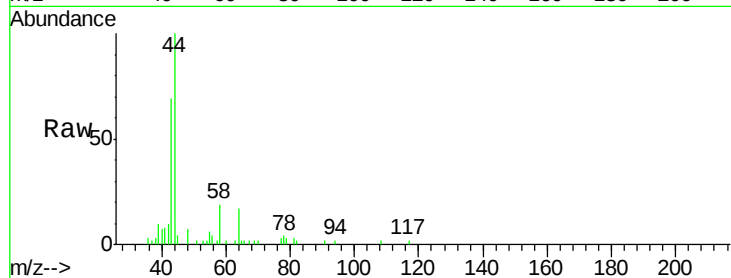
SP-C

Tgt Ion: 43 Resp: 3681

Ion Ratio Lower Upper

43 100

58 31.3 24.6 37.0



#18

Methyl Acetate

Concen: 1.61 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX000858.D

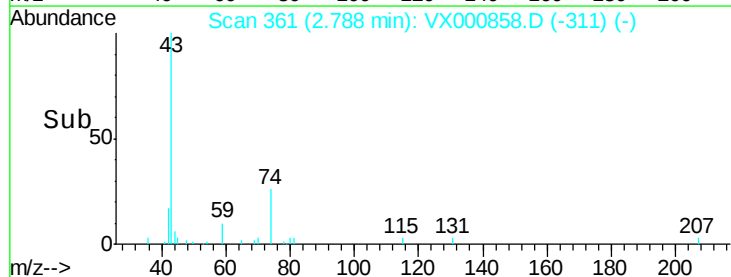
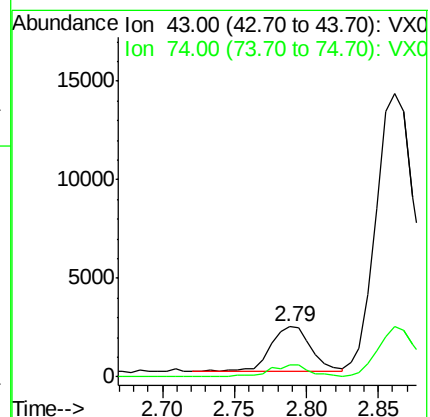
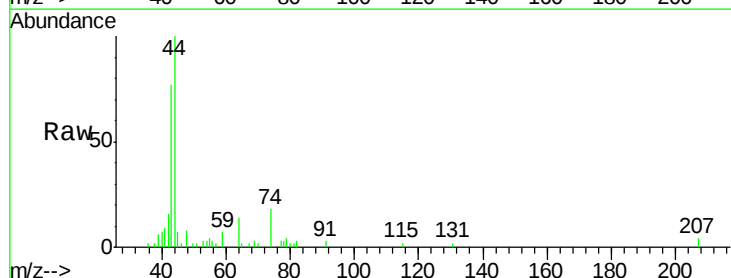
Acq: 13 Apr 2018 19:00

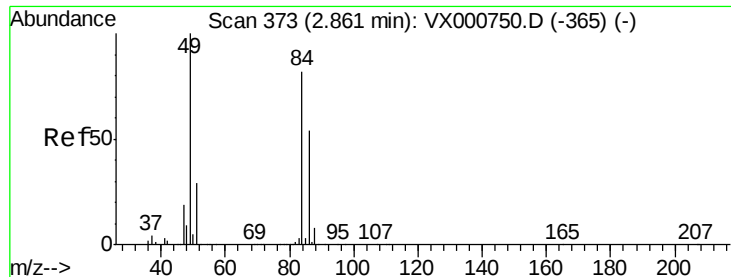
Tgt Ion: 43 Resp: 4477

Ion Ratio Lower Upper

43 100

74 26.9 19.1 28.7



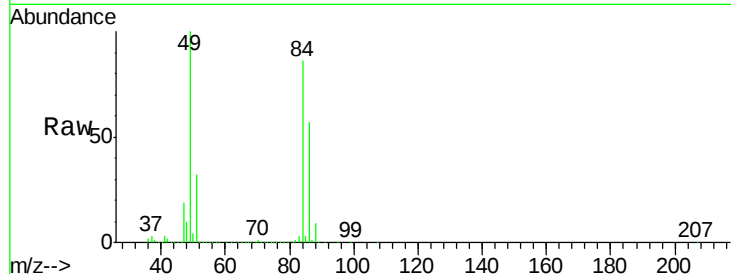


#20
Methylene Chloride
Concen: 2599.01 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX000858.D
Acq: 13 Apr 2018 19:00

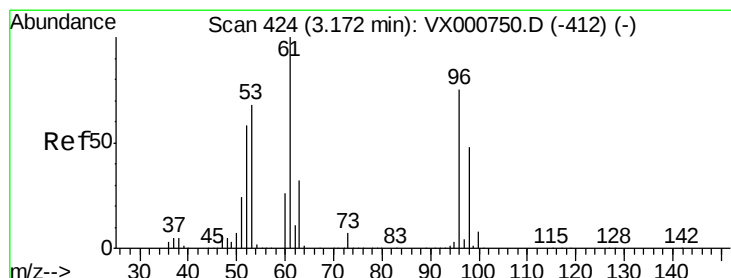
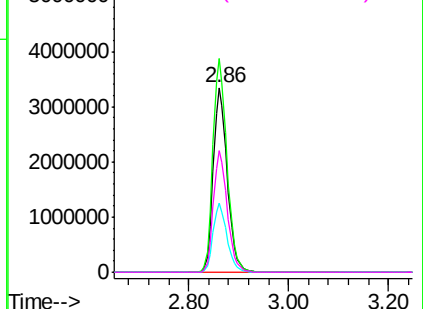
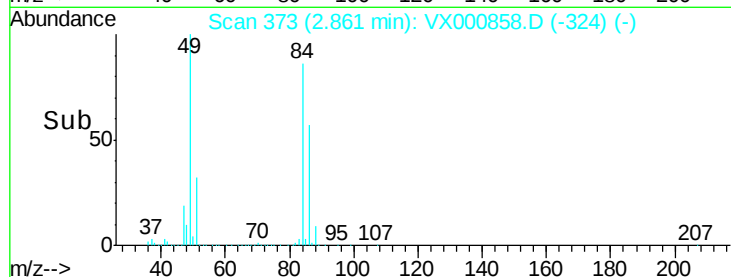
Instrument :
MSVOA_X
ClientSampleId :
SP-C

Tgt Ion: 84 Resp: 6510892

Ion	Ratio	Lower	Upper
84	100		
49	115.9	98.1	147.1
51	37.5	28.9	43.3
86	66.0	52.7	79.1



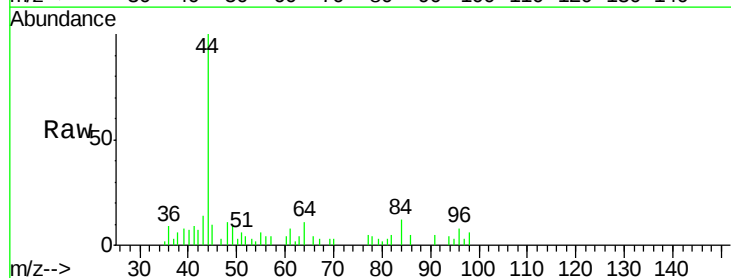
Abundance Ion 83.90 (83.60 to 84.60): VX0
6000000
Ion 48.90 (48.60 to 49.60): VX0
5000000
Ion 50.90 (50.60 to 51.60): VX0
4000000
Ion 85.90 (85.60 to 86.60): VX0
3000000
2000000
1000000
0



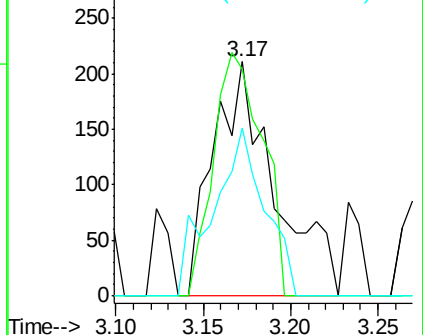
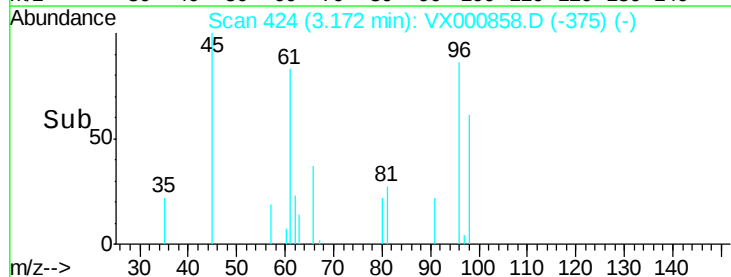
#21
trans-1,2-Dichloroethene
Concen: 0.21 ug/l
RT: 3.17 min Scan# 424
Delta R.T. 0.00 min
Lab File: VX000858.D
Acq: 13 Apr 2018 19:00

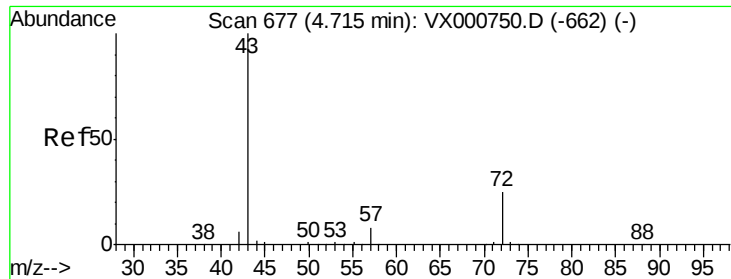
Tgt Ion: 96 Resp: 517

Ion	Ratio	Lower	Upper
96	100		
61	96.7	106.2	159.2#
98	71.6	51.2	76.8



Abundance Ion 95.90 (95.60 to 96.60): VX0
300
Ion 60.90 (60.60 to 61.60): VX0
250
Ion 97.90 (97.60 to 98.60): VX0
200
150
100
50
0





#25

2-Butanone

Concen: 0.37 ug/l

RT: 4.75 min Scan# 682

Delta R.T. 0.03 min

Lab File: VX000858.D

Acq: 13 Apr 2018 19:00

Instrument :

MSVOA_X

ClientSampled :

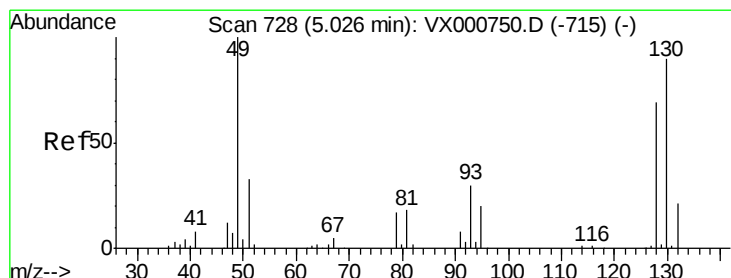
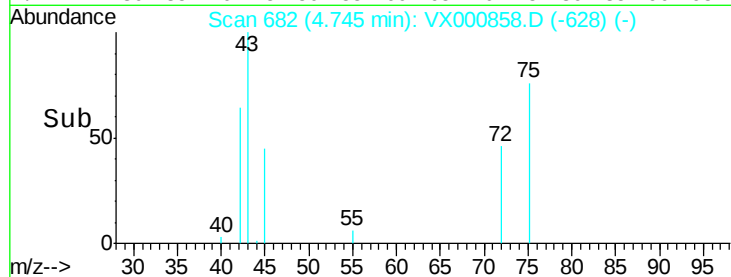
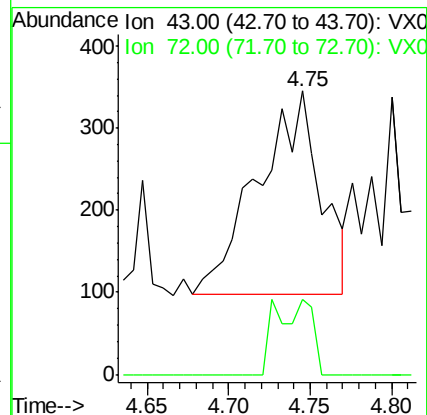
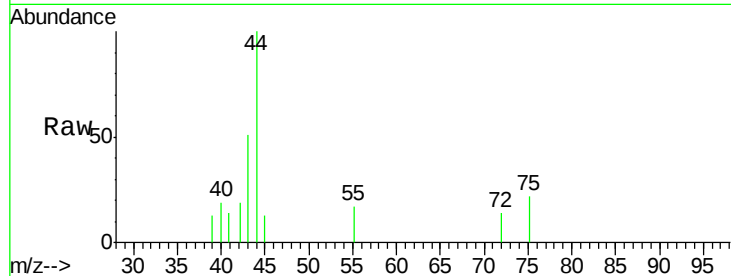
SP-C

Tgt Ion: 43 Resp: 662

Ion Ratio Lower Upper

43 100

72 37.2 20.3 30.5#



#28

Bromochloromethane

Concen: 7.83 ug/l

RT: 5.04 min Scan# 731

Delta R.T. 0.02 min

Lab File: VX000858.D

Acq: 13 Apr 2018 19:00

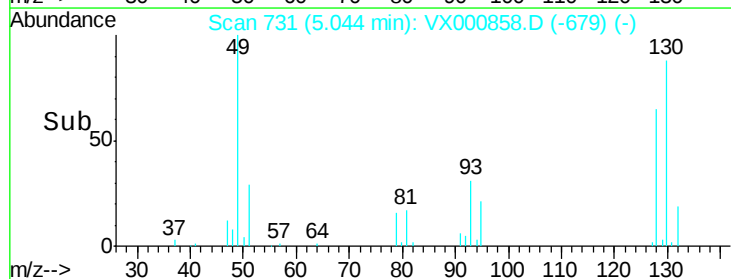
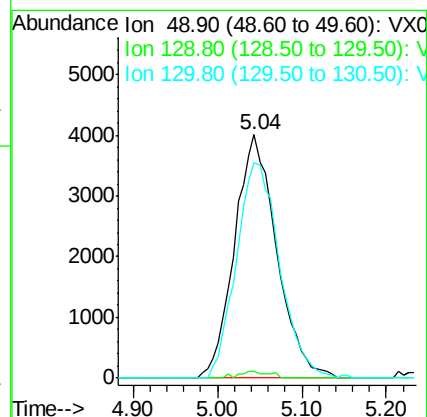
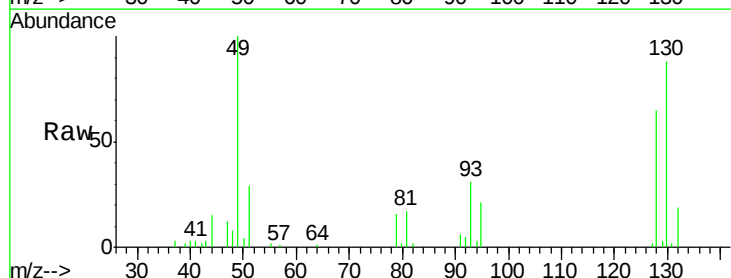
Tgt Ion: 49 Resp: 13673

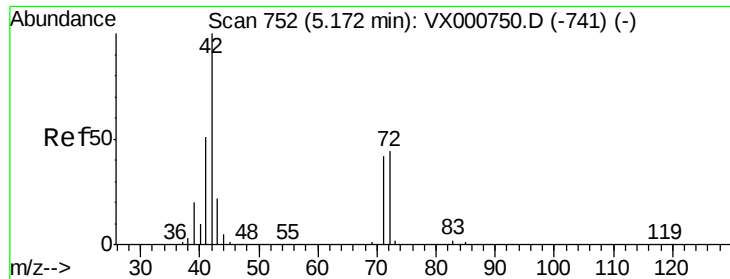
Ion Ratio Lower Upper

49 100

129 1.9 0.0 5.2

130 90.6 72.6 109.0





#29

Tetrahydrofuran

Concen: 0.73 ug/l

RT: 5.20 min Scan# 756

Delta R.T. 0.02 min

Lab File: VX000858.D

Acq: 13 Apr 2018 19:00

Instrument :

MSVOA_X

ClientSampleId :

SP-C

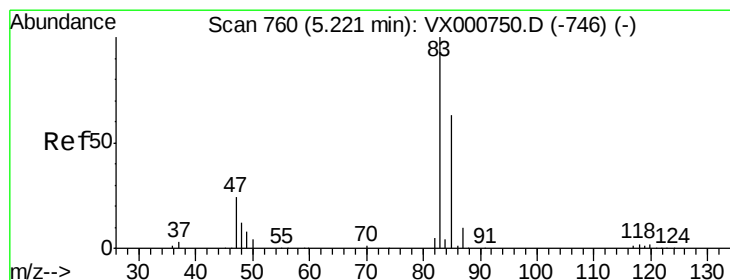
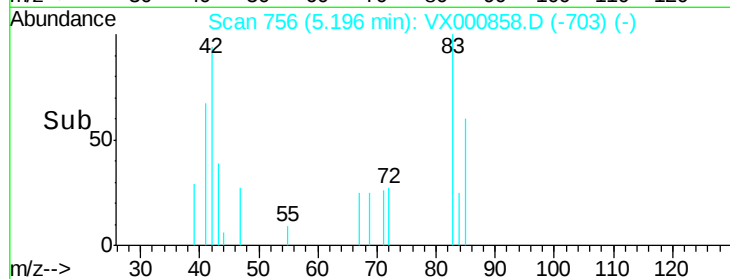
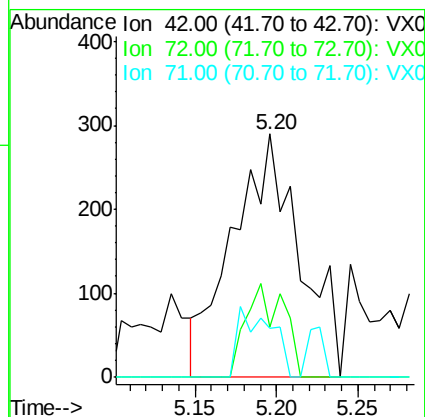
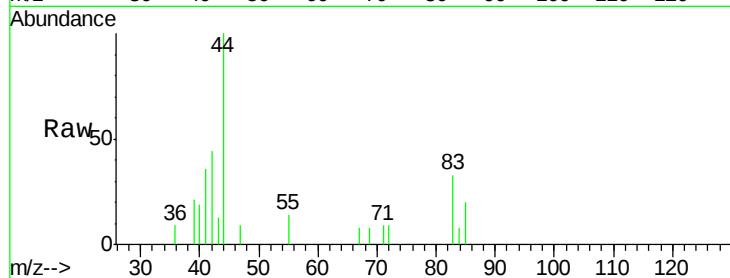
Tgt Ion: 42 Resp: 824

Ion Ratio Lower Upper

42 100

72 21.2 35.1 52.7#

71 14.4 32.8 49.2#



#30

Chloroform

Concen: 0.41 ug/l

RT: 5.22 min Scan# 760

Delta R.T. 0.00 min

Lab File: VX000858.D

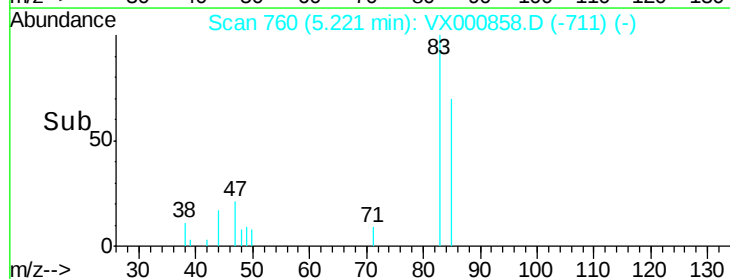
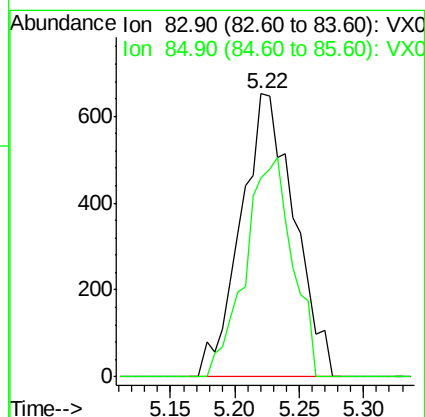
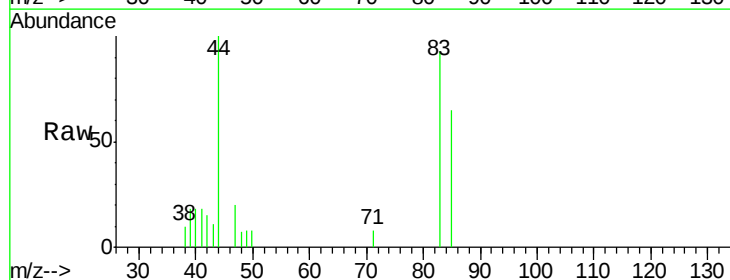
Acq: 13 Apr 2018 19:00

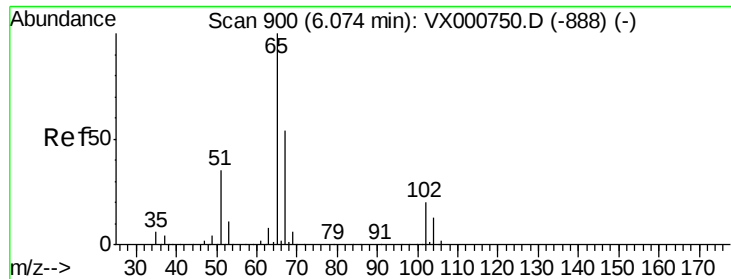
Tgt Ion: 83 Resp: 1879

Ion Ratio Lower Upper

83 100

85 70.4 50.7 76.1





#33

1,2-Dichloroethane-d4

Concen: 45.66 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX000858.D

Acq: 13 Apr 2018 19:00

Instrument :

MSVOA_X

ClientSampled :

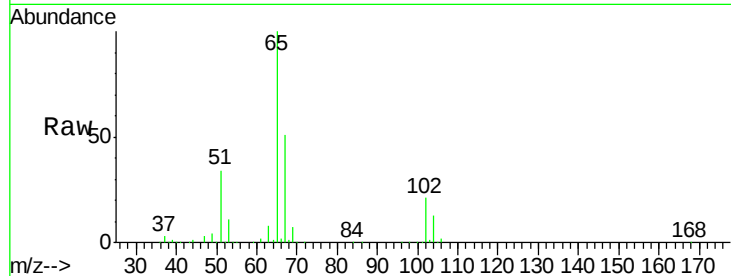
SP-C

Tgt Ion: 65 Resp: 142602

Ion Ratio Lower Upper

65 100

67 52.2 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.08

60000

50000

40000

30000

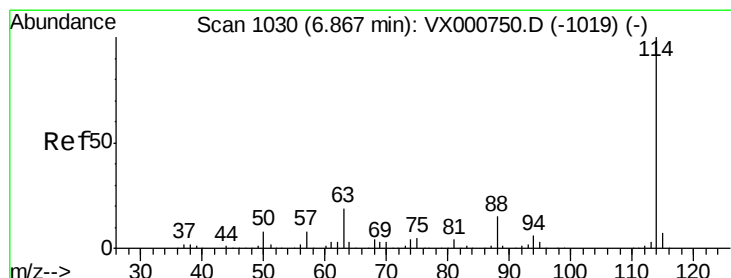
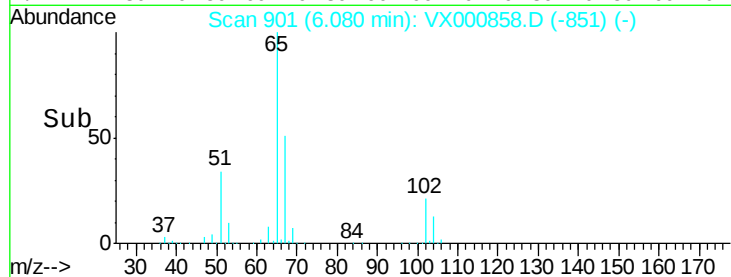
20000

10000

0

Time-->

6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VX000858.D

Acq: 13 Apr 2018 19:00

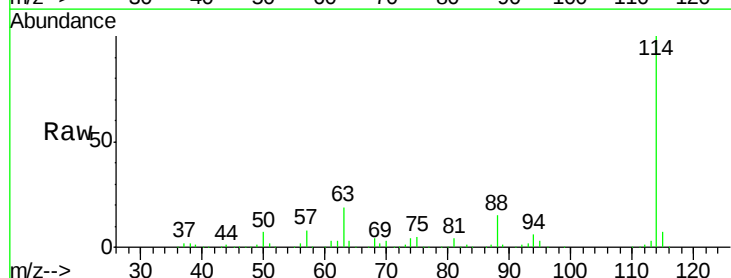
Tgt Ion: 114 Resp: 328930

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.4

88 15.1 0.0 31.0



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

150000

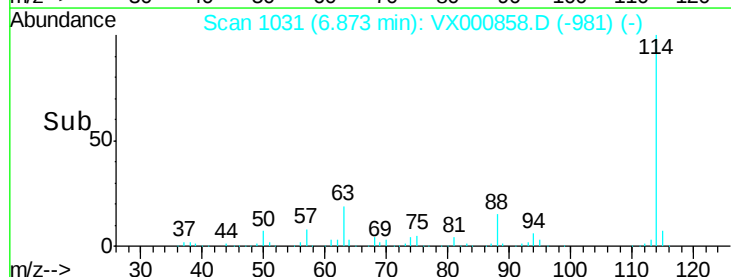
100000

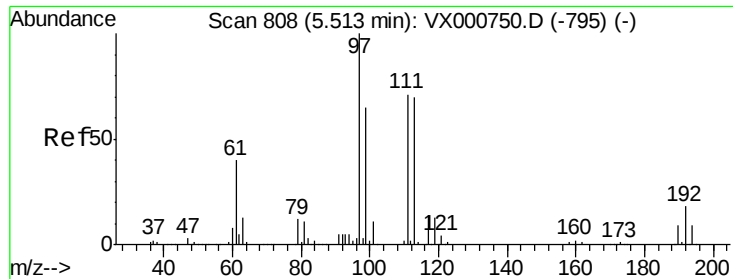
50000

0

Time-->

6.80 7.00 7.20





#35

Dibromofluoromethane

Concen: 45.92 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.00 min

Lab File: VX000858.D

Acq: 13 Apr 2018 19:00

Instrument :

MSVOA_X

ClientSampled :

SP-C

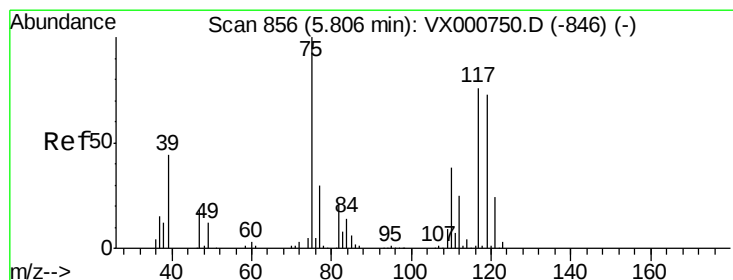
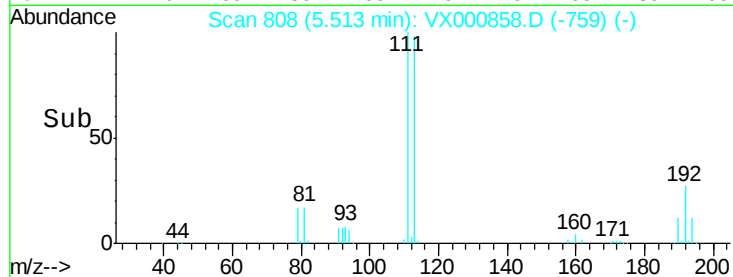
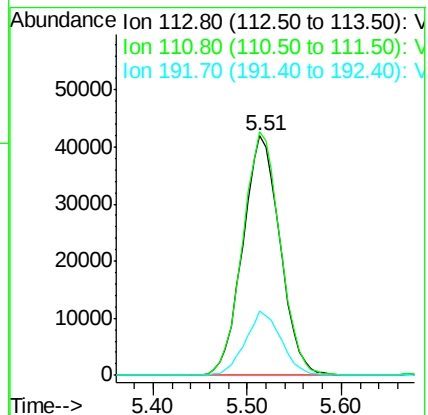
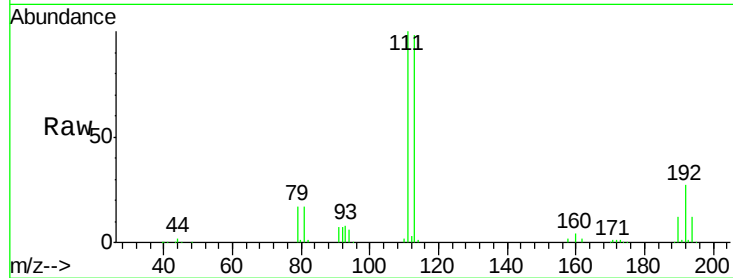
Tgt Ion:113 Resp: 116363

Ion Ratio Lower Upper

113 100

111 102.5 81.5 122.3

192 25.9 20.4 30.6



#36

1,1-Dichloropropene

Concen: 4.19 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX000858.D

Acq: 13 Apr 2018 19:00

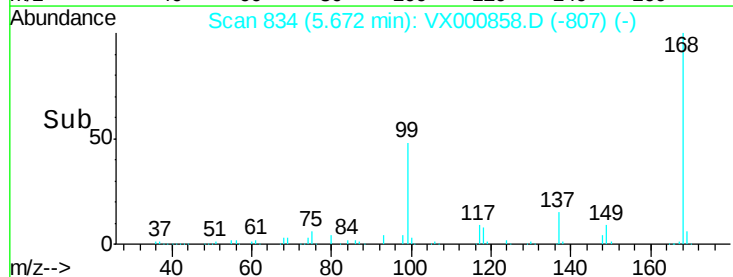
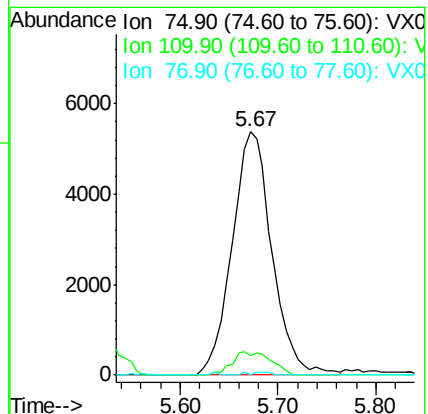
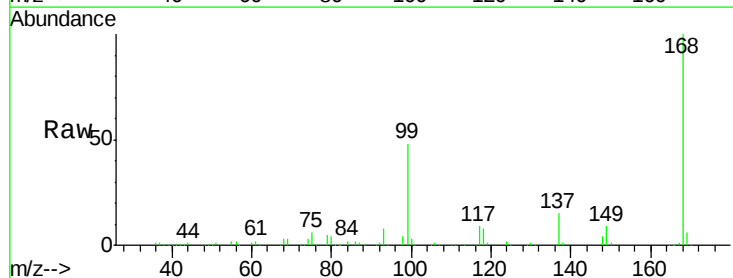
Tgt Ion: 75 Resp: 15161

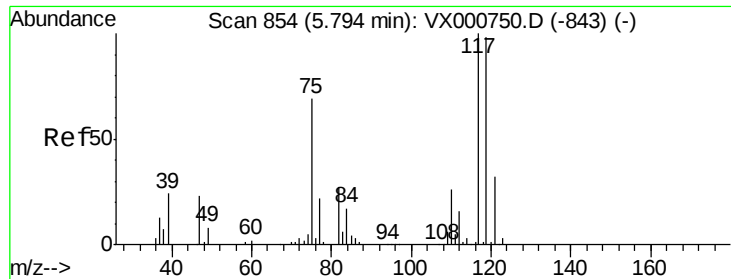
Ion Ratio Lower Upper

75 100

110 9.3 19.2 57.6#

77 0.0 25.4 38.2#

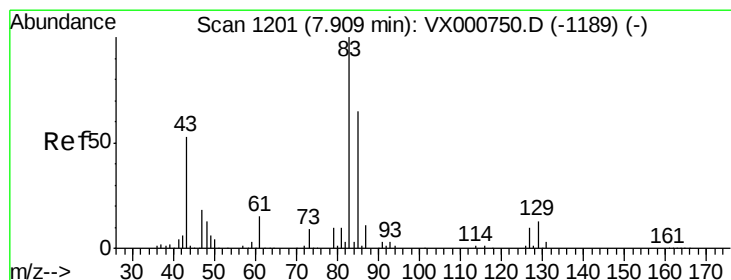
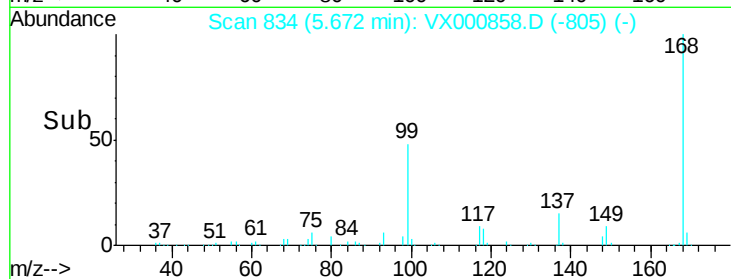
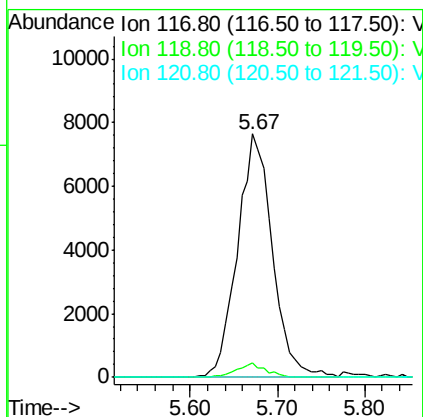
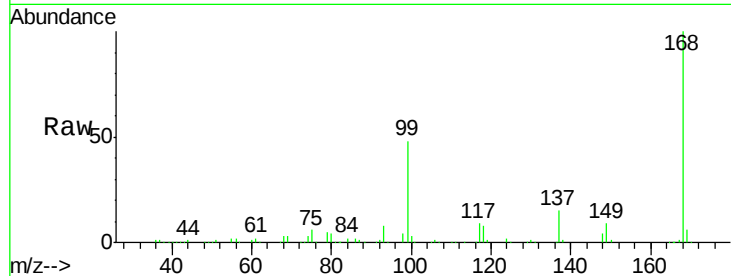




#38
Carbon Tetrachloride
Concen: 5.22 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.12 min
Lab File: VX000858.D
Acq: 13 Apr 2018 19:00

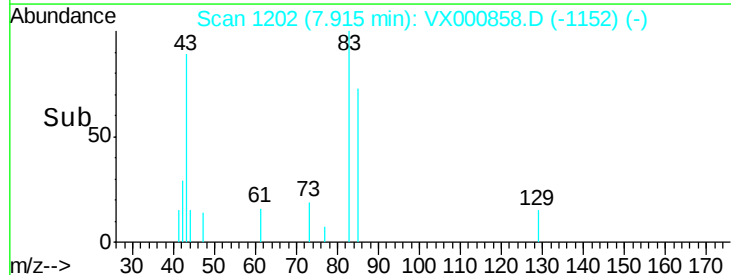
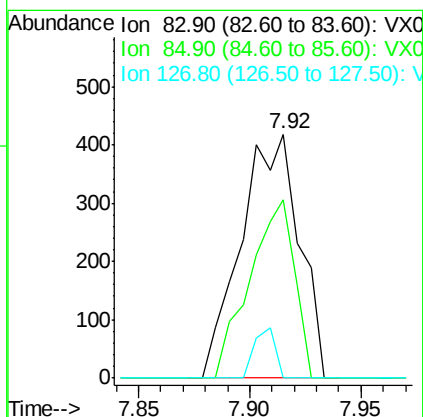
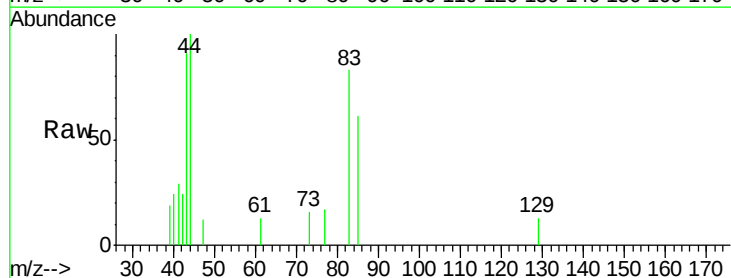
Instrument :
MSVOA_X
ClientSampled :
SP-C

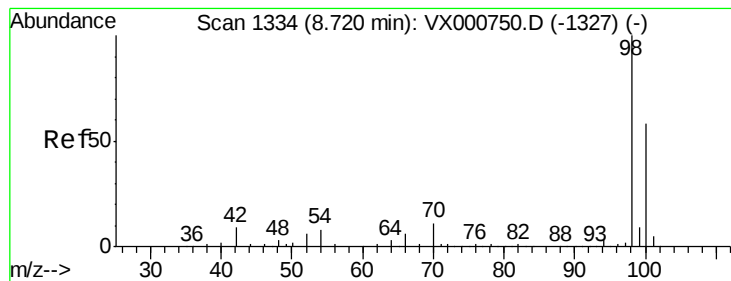
Tgt Ion: 117 Resp: 21164
Ion Ratio Lower Upper
117 100
119 6.2 78.4 117.6#
121 0.0 25.4 38.0#



#47
Bromodichloromethane
Concen: 0.21 ug/l
RT: 7.92 min Scan# 1202
Delta R.T. 0.01 min
Lab File: VX000858.D
Acq: 13 Apr 2018 19:00

Tgt Ion: 83 Resp: 762
Ion Ratio Lower Upper
83 100
85 73.0 52.2 78.4
127 0.0 7.8 11.8#





#50

Toluene-d8

Concen: 47.68 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX000858.D

Acq: 13 Apr 2018 19:00

Instrument :

MSVOA_X

ClientSampleId :

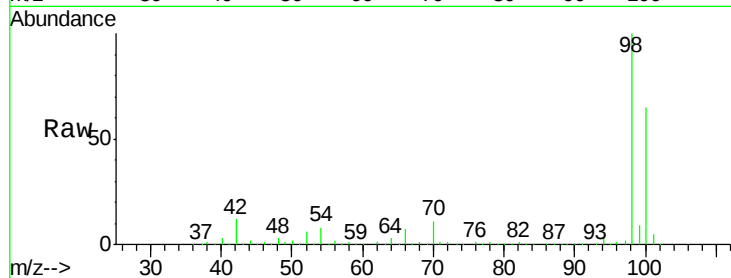
SP-C

Tgt Ion: 98 Resp: 449913

Ion Ratio Lower Upper

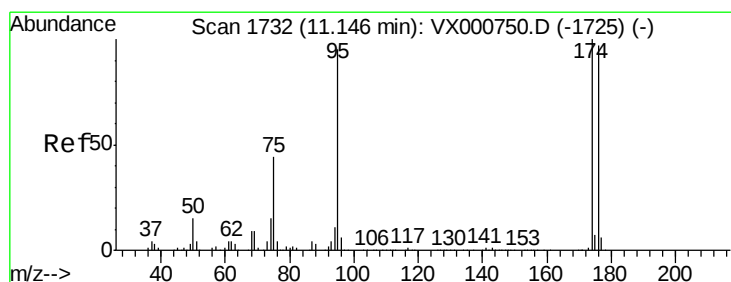
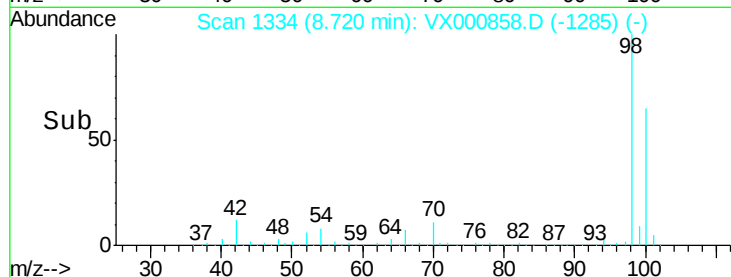
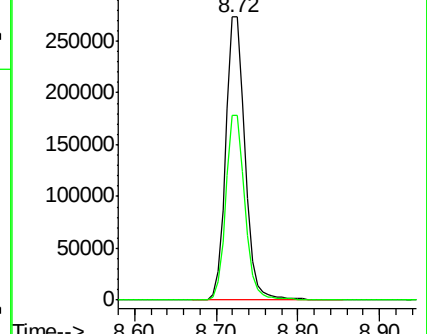
98 100

100 64.8 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 43.67 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000858.D

Acq: 13 Apr 2018 19:00

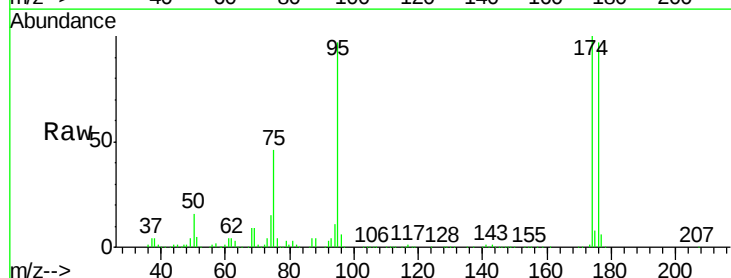
Tgt Ion: 95 Resp: 170486

Ion Ratio Lower Upper

95 100

174 98.4 0.0 198.4

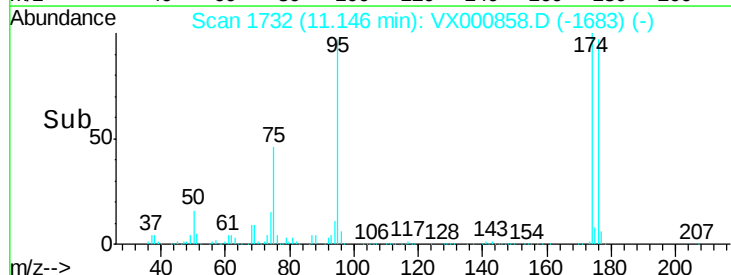
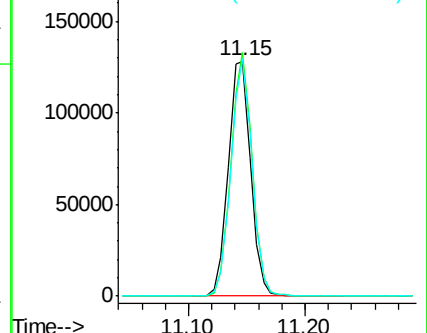
176 95.4 0.0 194.4

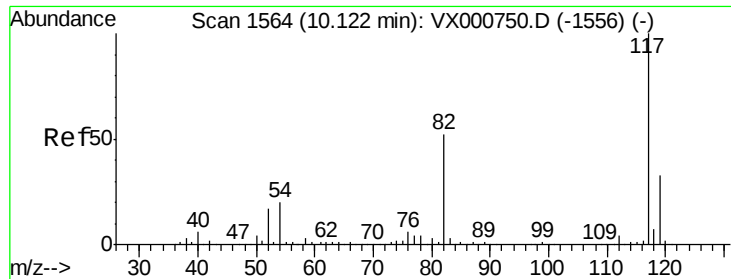


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

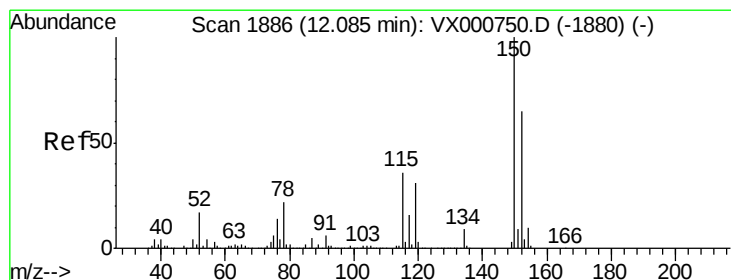
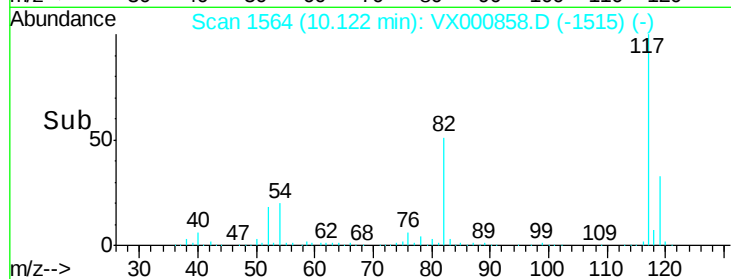
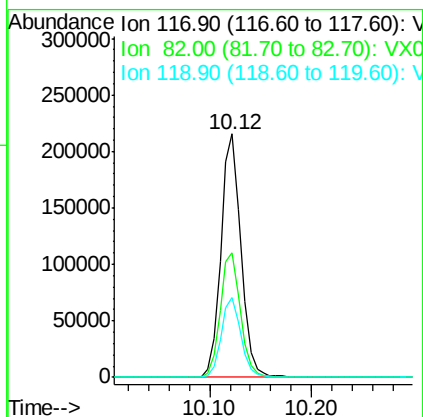
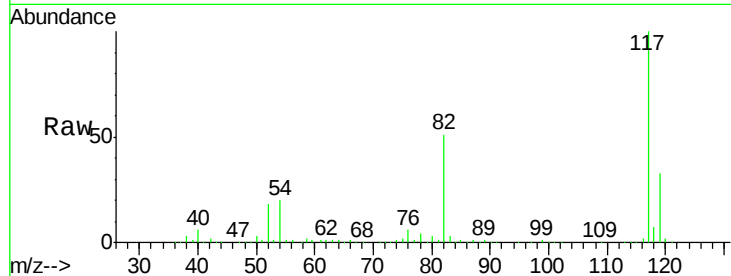




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VX000858.D
Acq: 13 Apr 2018 19:00

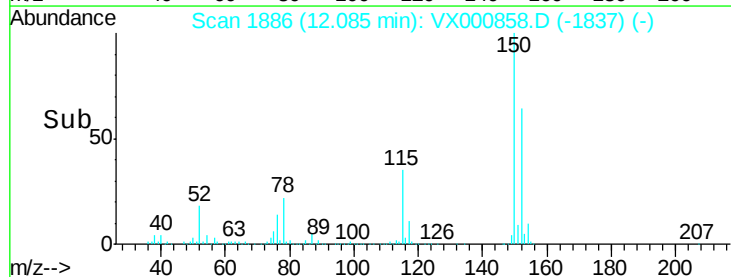
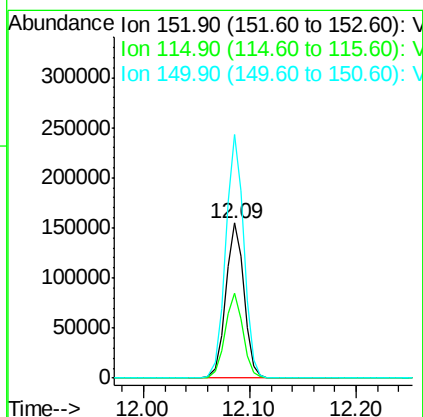
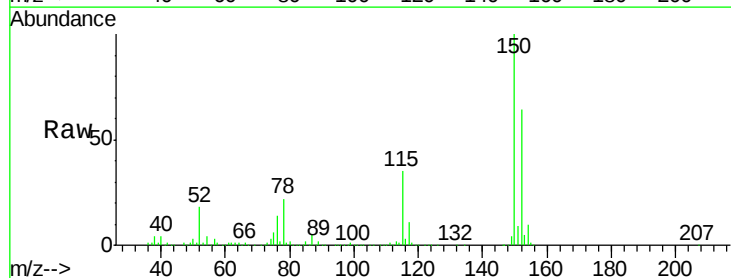
Instrument :
MSVOA_X
ClientSampled :
SP-C

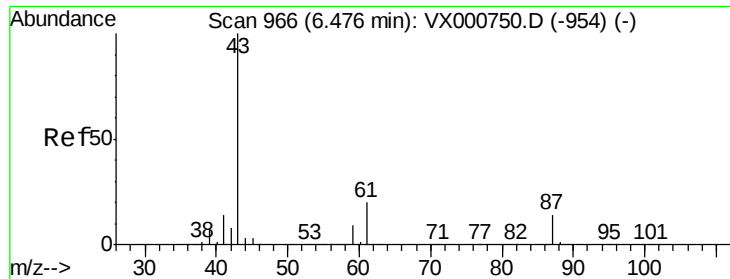
Tgt Ion:117 Resp: 295082
Ion Ratio Lower Upper
117 100
82 51.3 41.9 62.9
119 32.9 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX000858.D
Acq: 13 Apr 2018 19:00

Tgt Ion:152 Resp: 186047
Ion Ratio Lower Upper
152 100
115 53.5 37.9 113.7
150 156.0 0.0 348.0





#74

N-amyI acetate

Concen: 0.21 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000858.D

Acq: 13 Apr 2018 19:00

Instrument :

MSVOA_X

ClientSampleId :

SP-C

Tgt Ion: 43 Resp: 1100

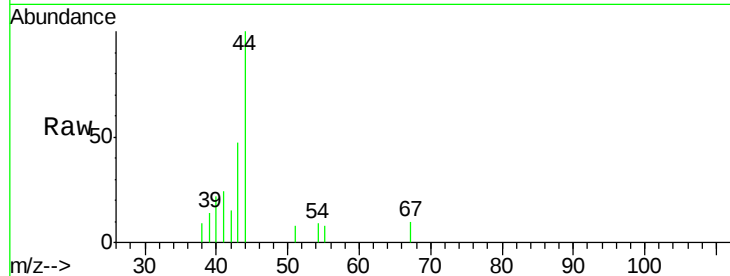
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 9.9 0.0 0.0#

61 0.0 15.6 23.4#

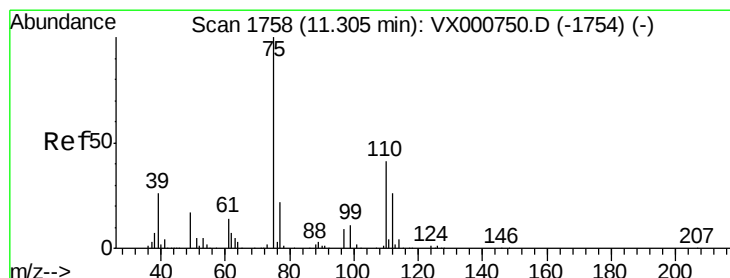
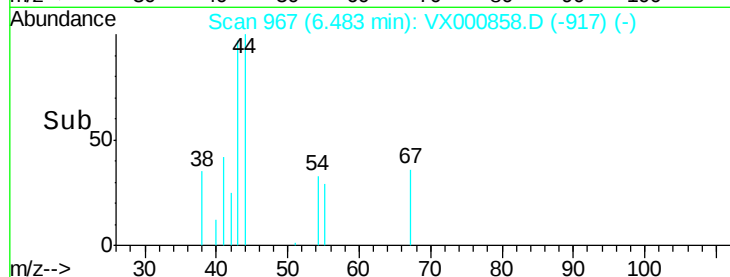
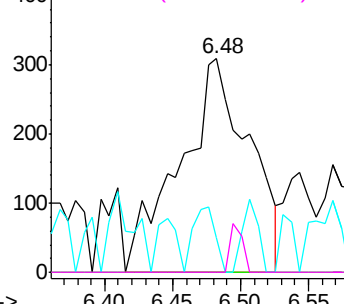


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 25.72 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX000858.D

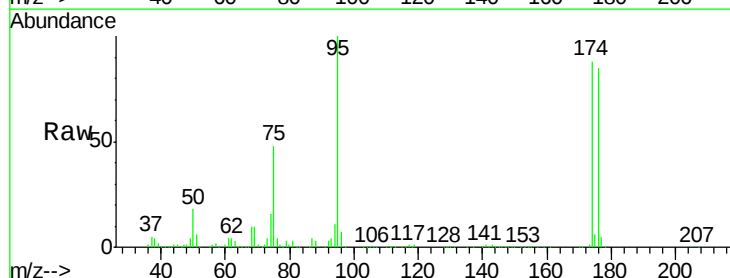
Acq: 13 Apr 2018 19:00

Tgt Ion: 75 Resp: 82515

Ion Ratio Lower Upper

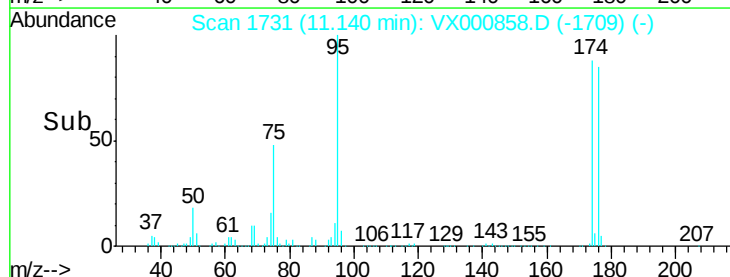
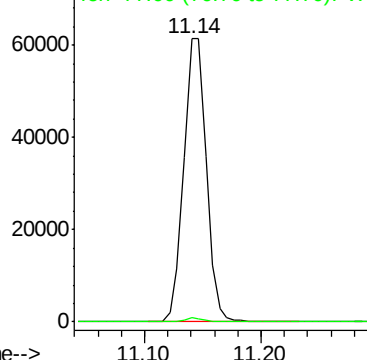
75 100

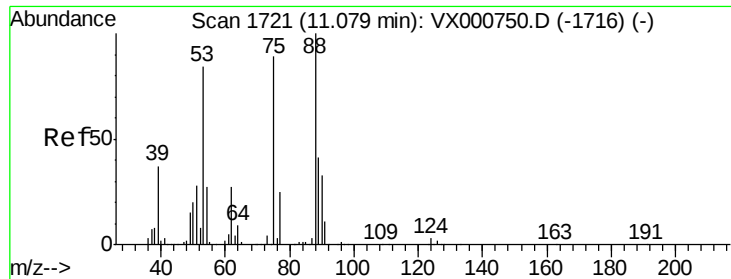
77 1.3 20.5 61.5#



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: 70.74 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX000858.D

Acq: 13 Apr 2018 19:00

Instrument :

MSVOA_X

ClientSampleId :

SP-C

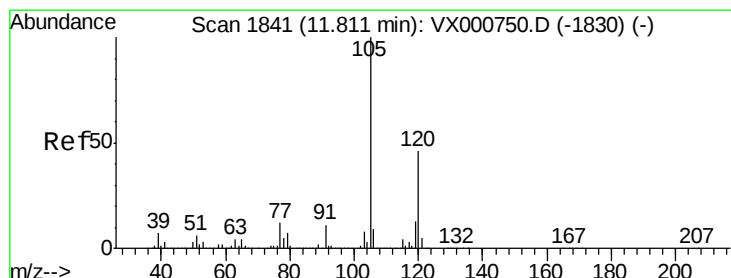
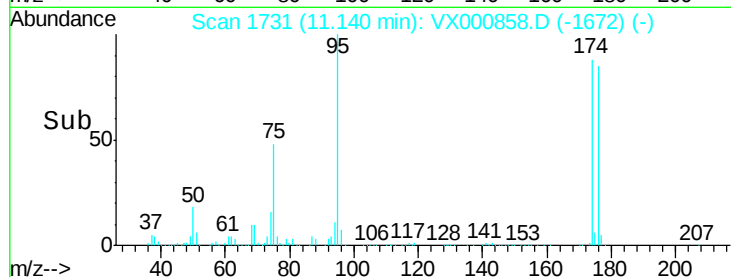
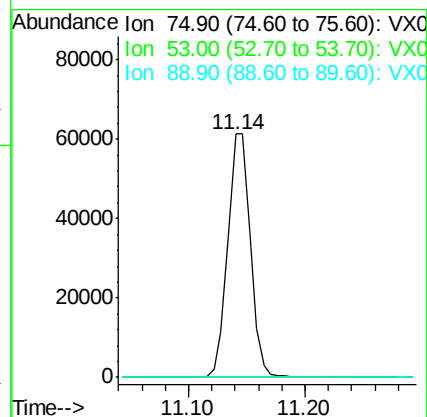
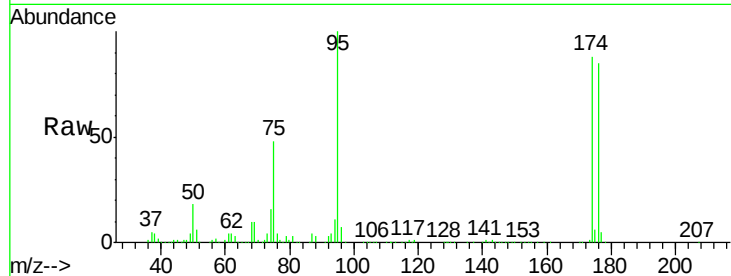
Tgt Ion: 75 Resp: 82515

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 40.9 61.3#



#84

1,2,4-Trimethylbenzene

Concen: 0.27 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX000858.D

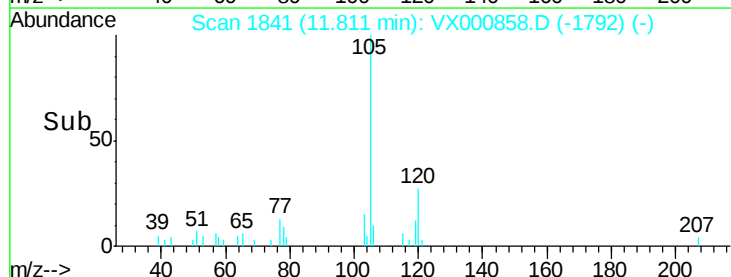
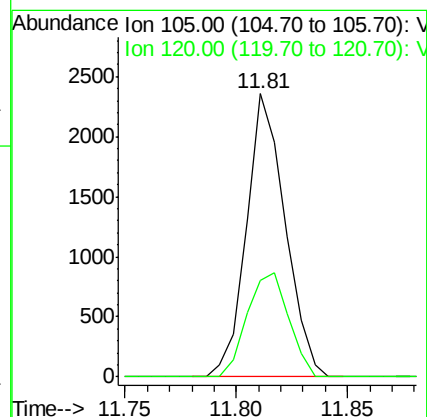
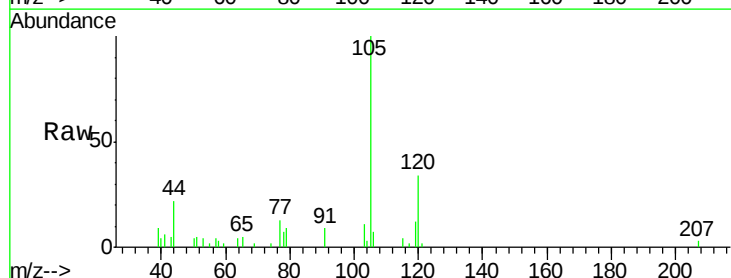
Acq: 13 Apr 2018 19:00

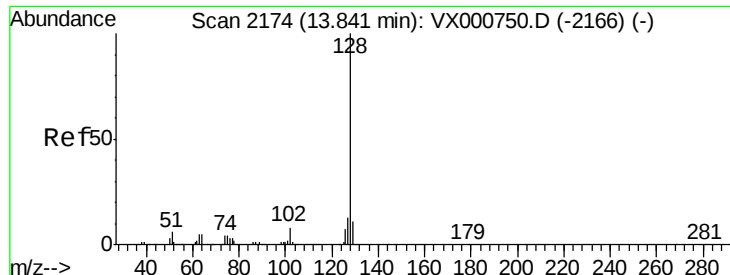
Tgt Ion:105 Resp: 2863

Ion Ratio Lower Upper

105 100

120 39.3 23.1 69.3

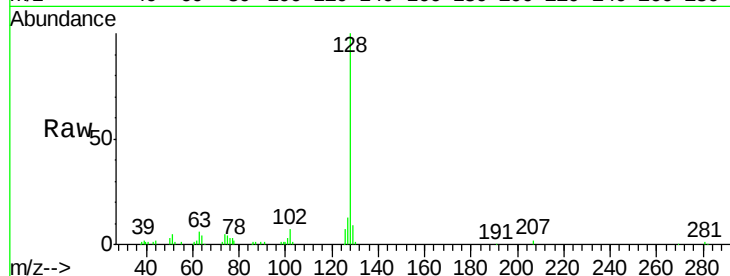




#95
Naphthalene
Concen: 1.23 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. 0.00 min
Lab File: VX000858.D
Acq: 13 Apr 2018 19:00

Instrument :
MSVOA_X
ClientSampleId :
SP-C

Tgt Ion:128 Resp: 16687
Ion Ratio Lower Upper
128 100
127 13.3 10.4 15.6
129 10.3 8.7 13.1



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

