

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062718\
 Data File : VX002967.D
 Acq On : 28 Jun 2018 05:45
 Operator : JC/MD
 Sample : J3718-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 W-29

Quant Time: Jun 28 06:52:40 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	272184	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	385423	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	361203	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	209195	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	183539	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
35) Dibromofluoromethane	5.51	113	147469	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
50) Toluene-d8	8.72	98	543365	48.75	ug/l	0.00
Spiked Amount			Recovery	=	97.50%	
62) 4-Bromofluorobenzene	11.14	95	194337	45.21	ug/l	0.00
Spiked Amount			Recovery	=	90.42%	

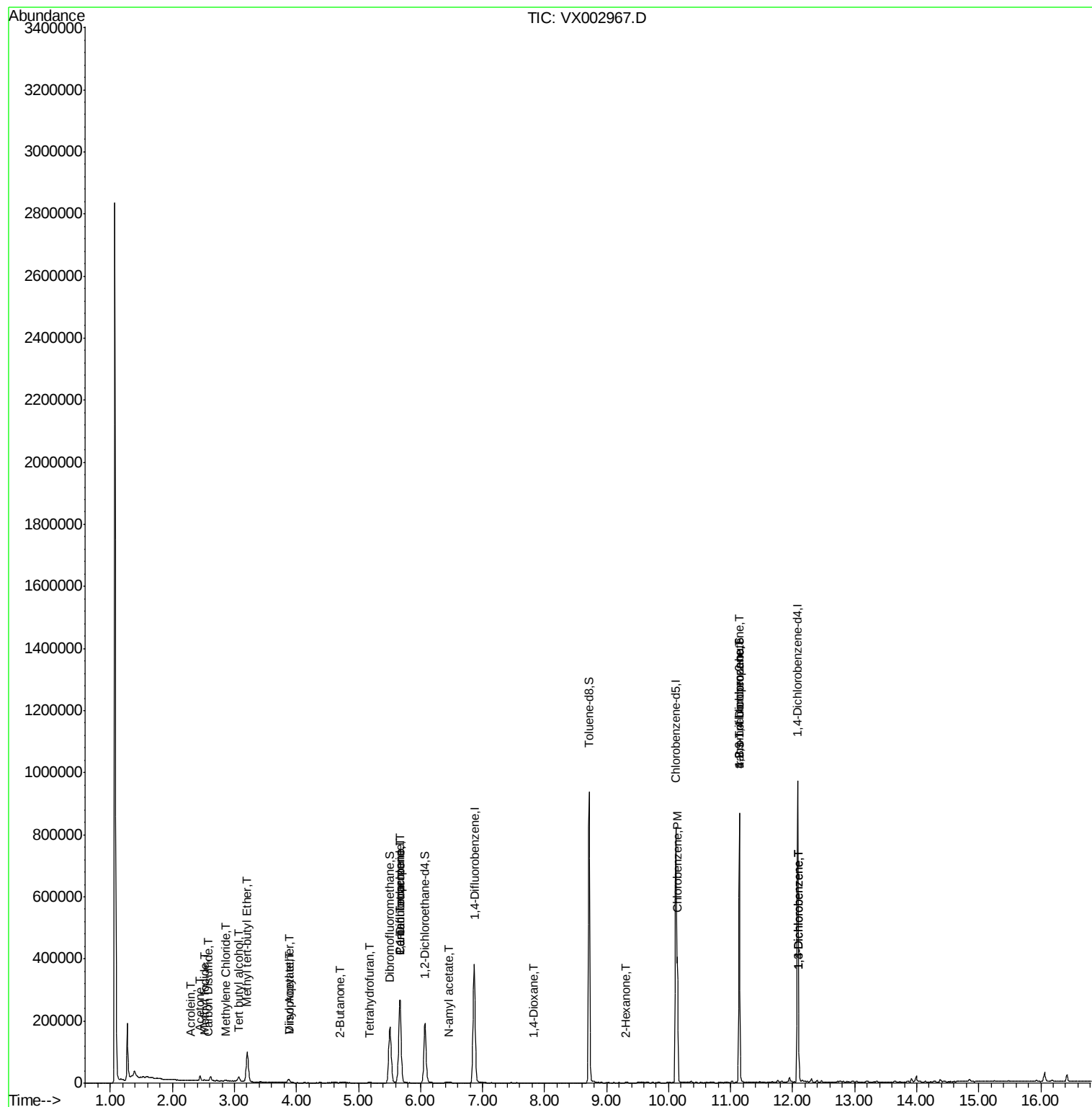
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	77	Below Cal	#	43
3) Chloromethane	1.32	50	1125	Below Cal		98
5) Bromomethane	1.65	94	1502	Below Cal	#	72
6) Chloroethane	1.92	64	362	Below Cal	#	63
10) Methyl Iodide	2.51	142	3497	7.23	ug/l	96
11) Tert butyl alcohol	3.07	59	16903	22.55	ug/l	95
13) Acrolein	2.29	56	252	4.83	ug/l	1
16) Acetone	2.45	43	15416	9.89	ug/l	95
17) Carbon Disulfide	2.57	76	1648	0.23	ug/l	93
19) Methyl tert-butyl Ether	3.21	73	106400	11.03	ug/l	100
20) Methylene Chloride	2.86	84	658	0.22	ug/l	90
22) Diisopropyl ether	3.88	45	12449	1.23	ug/l	92
23) Vinyl Acetate	3.88	43	7082	0.83	ug/l	75
25) 2-Butanone	4.71	43	1789	0.77	ug/l	98
29) Tetrahydrofuran	5.18	42	1467	0.99	ug/l	74
36) 1,1-Dichloropropene	5.67	75	18240	4.32	ug/l	52
38) Carbon Tetrachloride	5.67	117	24846	5.36	ug/l	16
49) 1,4-Dioxane	7.82	88	19	0.25	ug/l	1
59) 2-Hexanone	9.32	43	940	0.26	ug/l	87
65) Chlorobenzene	10.14	112	159628	17.40	ug/l	98
74) N-amyl acetate	6.45	43	1496	0.22	ug/l	59
76) 1,2,3-Trichloropropane	11.14	75	102137	26.95	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	102137	76.31	ug/l	7
87) 1,3-Dichlorobenzene	12.10	146	22043	3.01	ug/l	90
88) 1,4-Dichlorobenzene	12.10	146	22043	2.93	ug/l	90

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

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Quant Title : SW846 8260
QLast Update : Mon Jun 25 14:38:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

Instrument :

MSVOA_X

ClientSampled :

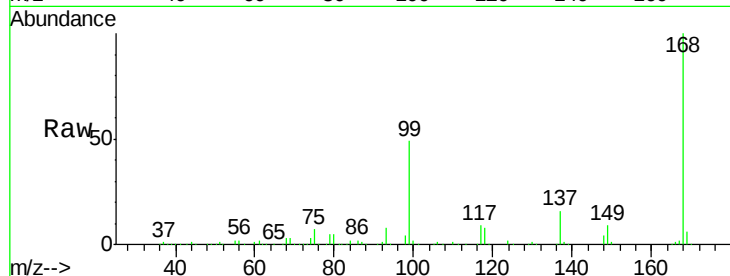
W-29

Tot Ion:168 Resp: 272184

Ion Ratio Lower Upper

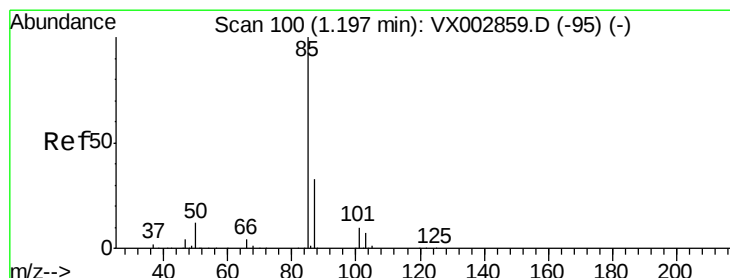
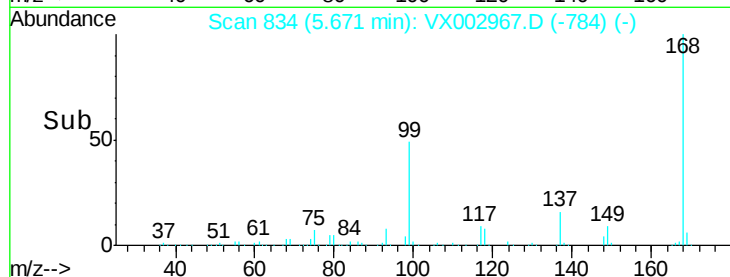
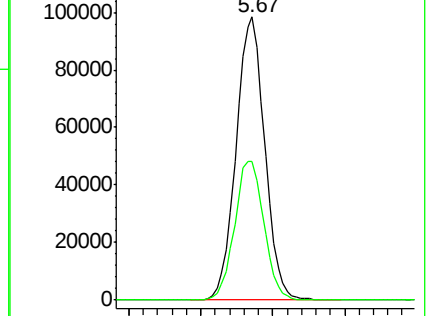
168 100

99 49.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002967.D

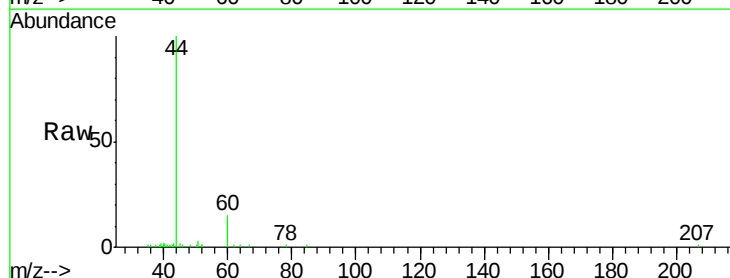
Acq: 28 Jun 2018 05:45

Tgt Ion: 85 Resp: 77

Ion Ratio Lower Upper

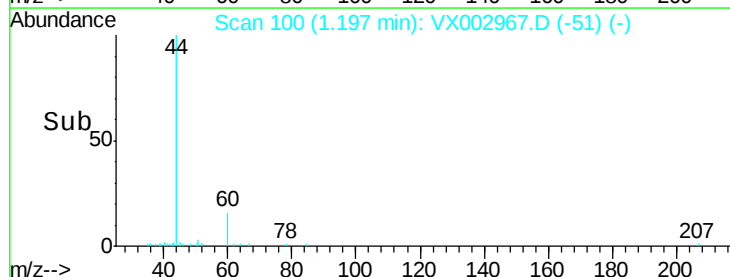
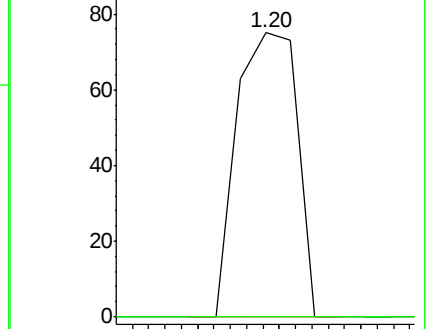
85 100

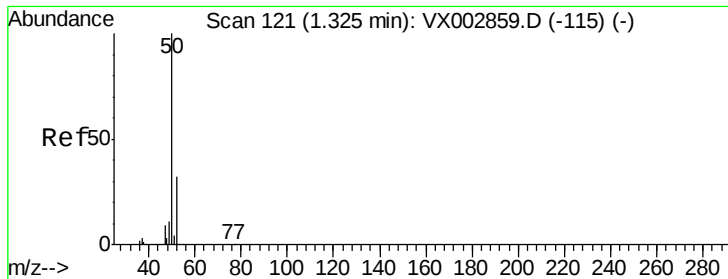
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

Instrument :

MSVOA_X

ClientSampled :

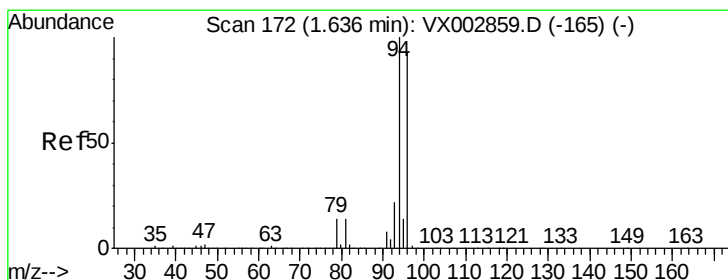
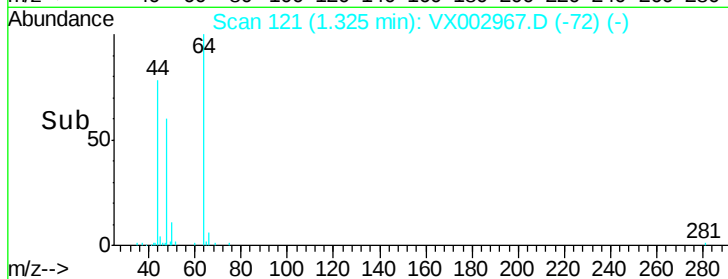
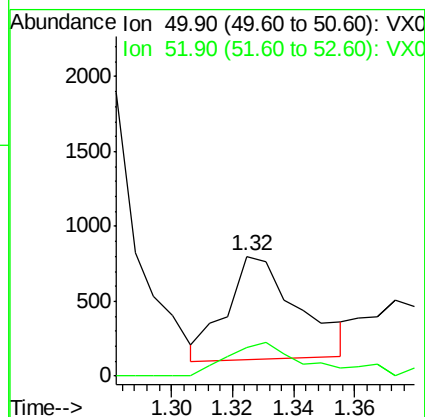
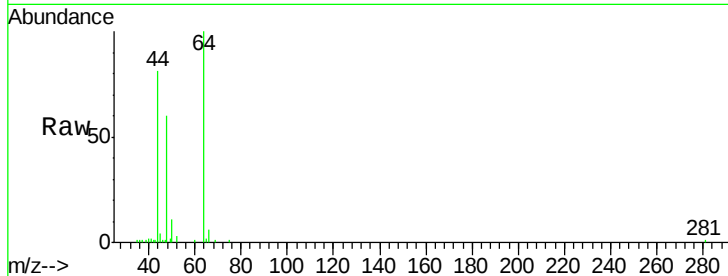
W-29

Tot Ion: 50 Resp: 1125

Ion Ratio Lower Upper

50 100

52 33.1 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002967.D

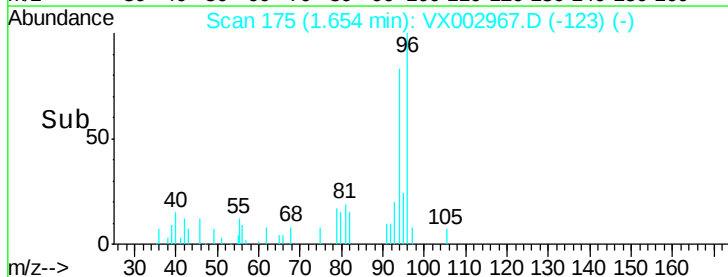
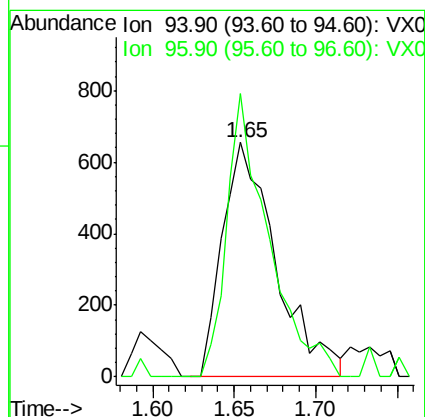
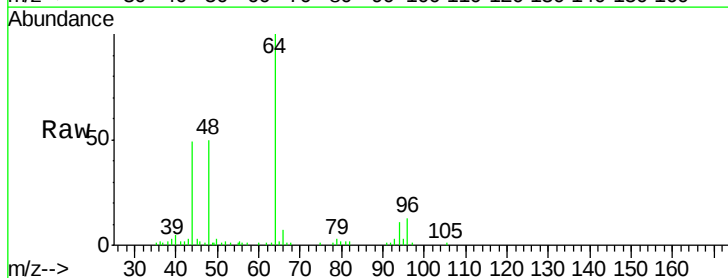
Acq: 28 Jun 2018 05:45

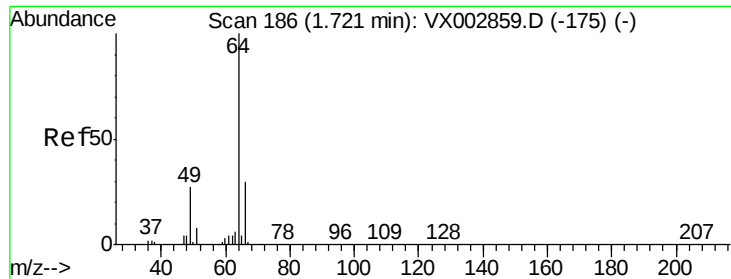
Tgt Ion: 94 Resp: 1502

Ion Ratio Lower Upper

94 100

96 120.8 74.9 112.3#





#6

Chloroethane

Concen: Below Cal

RT: 1.92 min Scan# 218

Delta R.T. 0.19 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

Instrument :

MSVOA_X

ClientSampleId :

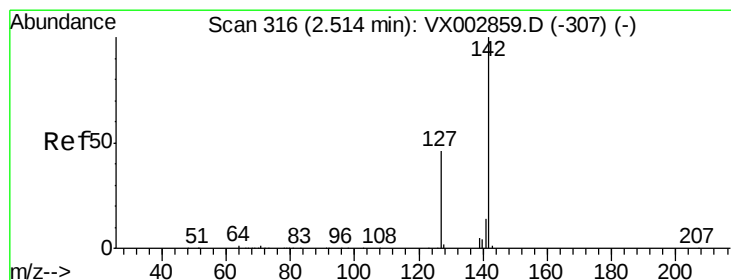
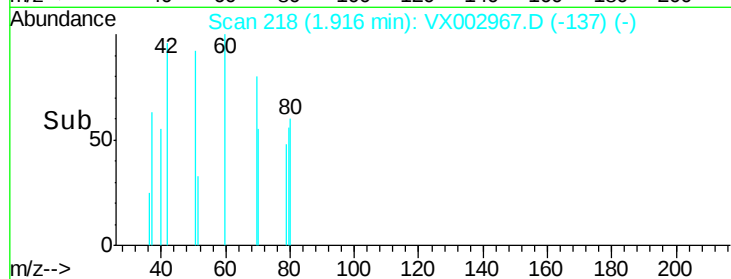
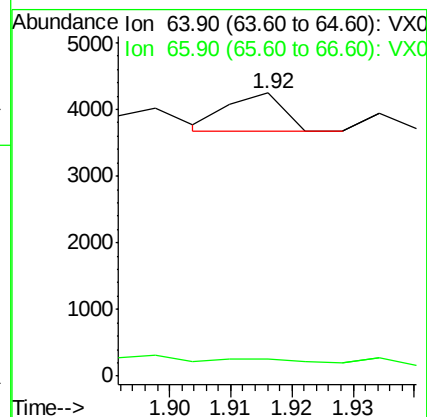
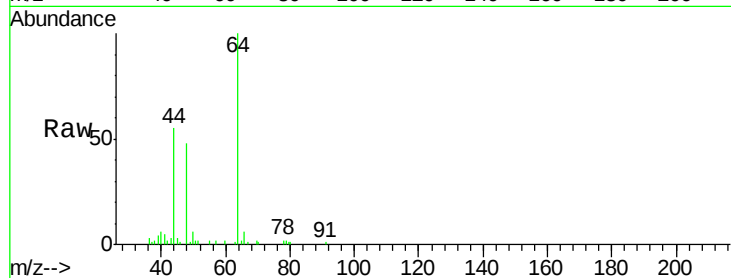
W-29

Tot Ion: 64 Resp: 362

Ion Ratio Lower Upper

64 100

66 11.1 25.5 38.3#



#10

Methyl Iodide

Concen: 7.23 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

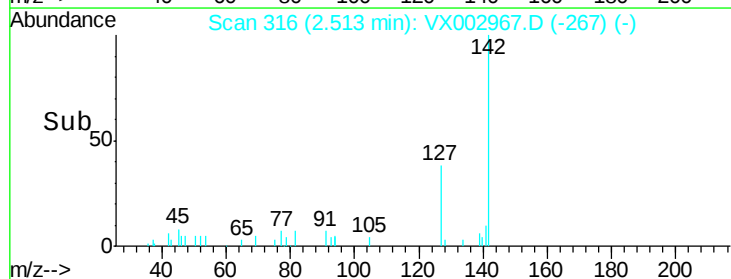
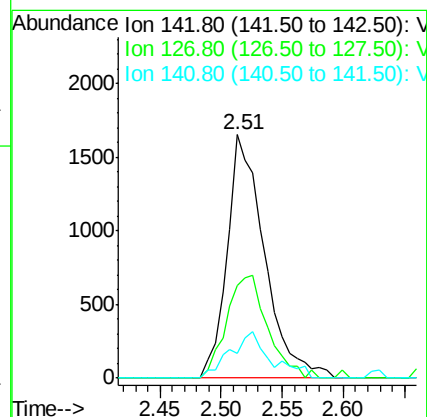
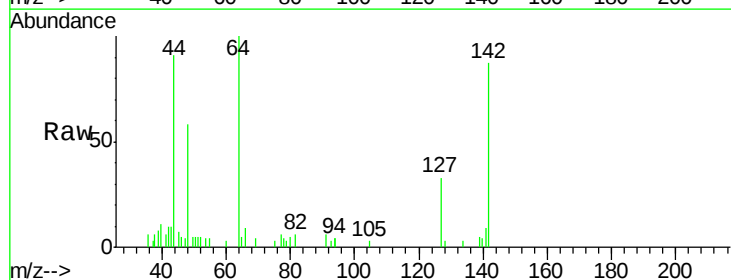
Tgt Ion: 142 Resp: 3497

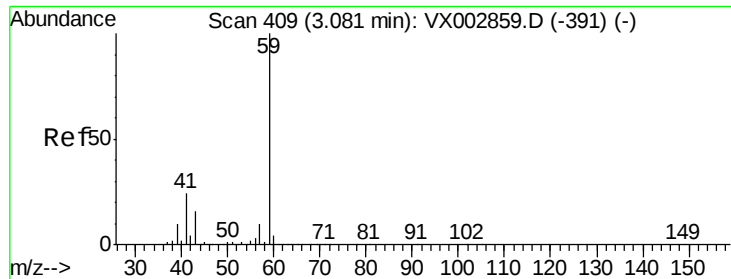
Ion Ratio Lower Upper

142 100

127 46.2 36.6 55.0

141 20.7 11.3 16.9#

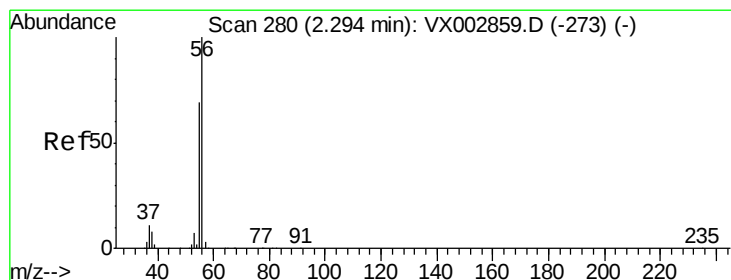
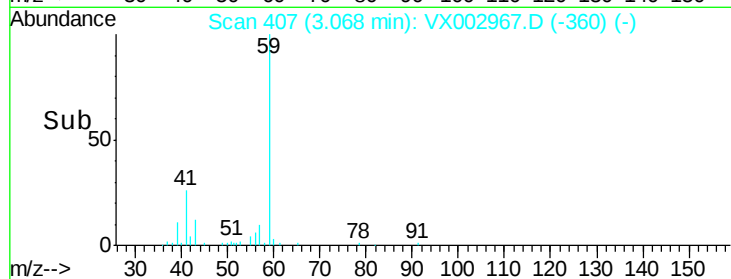
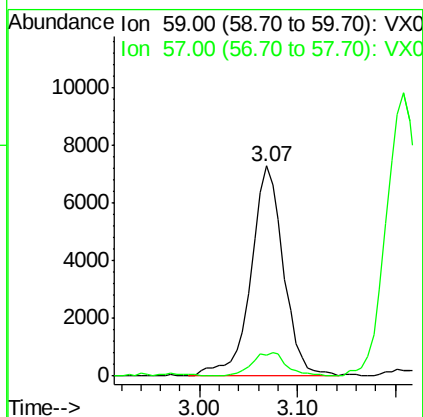
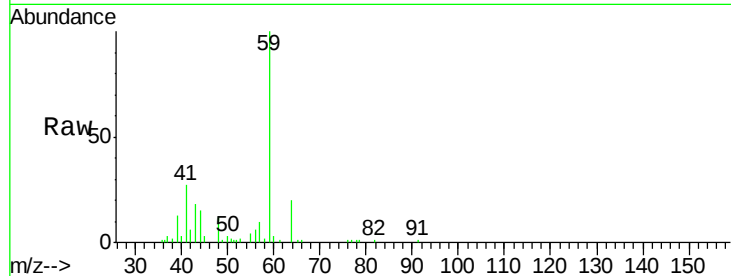




#11
Tert butyl alcohol
Concen: 22.55 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX002967.D
Acq: 28 Jun 2018 05:45

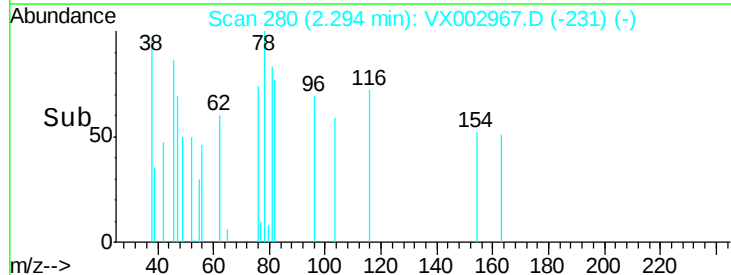
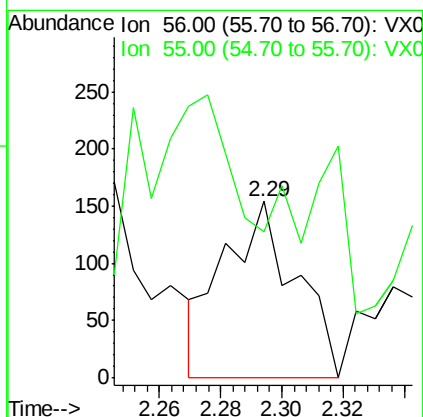
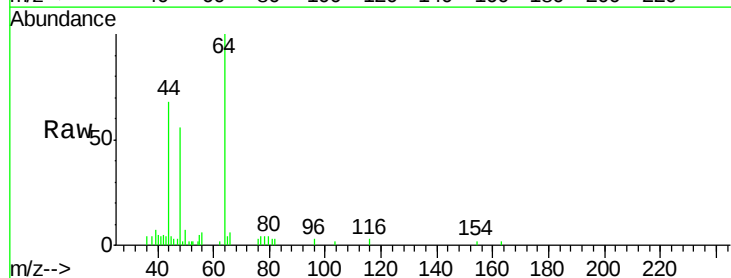
Instrument :
MSVOA_X
ClientSampled :
W-29

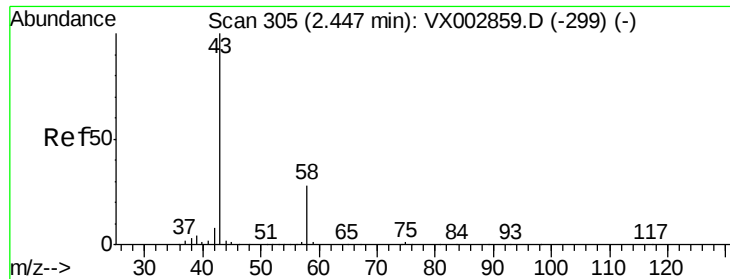
Tot Ion: 59 Resp: 16903
Ion Ratio Lower Upper
59 100
57 12.1 8.2 12.2



#13
Acrolein
Concen: 4.83 ug/l
RT: 2.29 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX002967.D
Acq: 28 Jun 2018 05:45

Tgt Ion: 56 Resp: 252
Ion Ratio Lower Upper
56 100
55 162.3 57.0 85.4#





#16

Acetone

Concen: 9.89 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

Instrument :

MSVOA_X

ClientSampled :

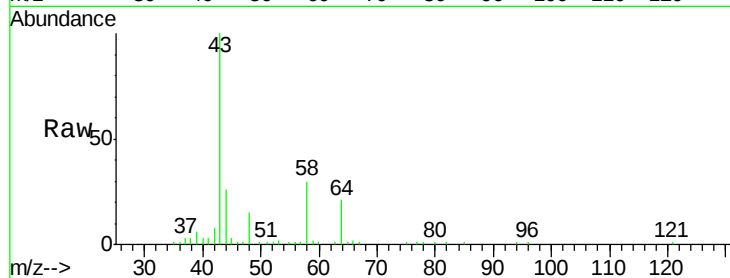
W-29

Tot Ion: 43 Resp: 15416

Ion Ratio Lower Upper

43 100

58 30.3 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

10000

8000

6000

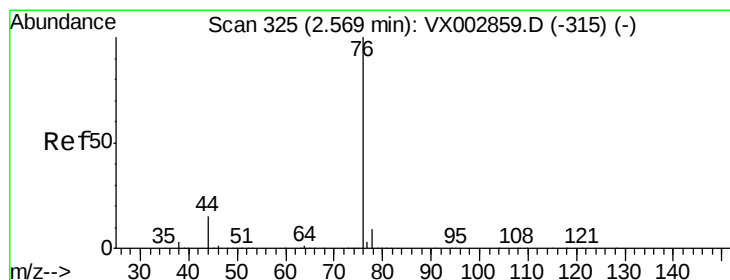
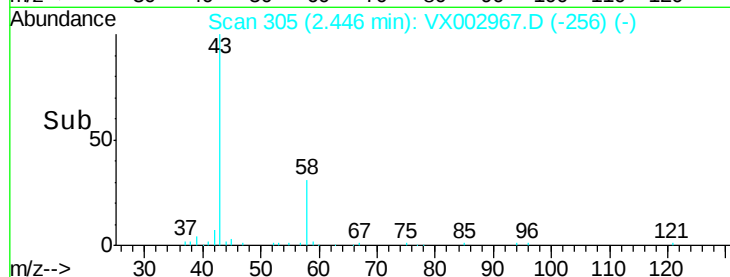
4000

2000

0

Time-->

2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.23 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002967.D

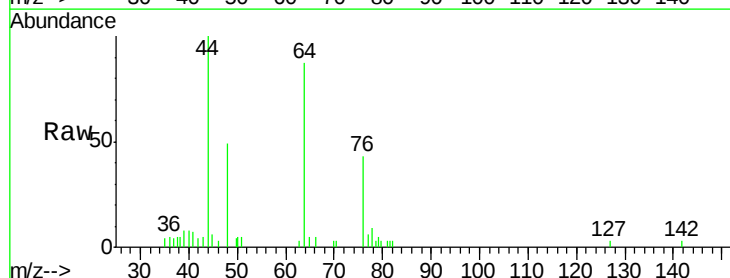
Acq: 28 Jun 2018 05:45

Tgt Ion: 76 Resp: 1648

Ion Ratio Lower Upper

76 100

78 11.0 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

1000

800

600

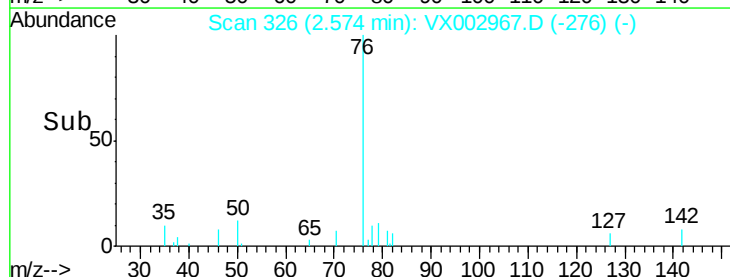
400

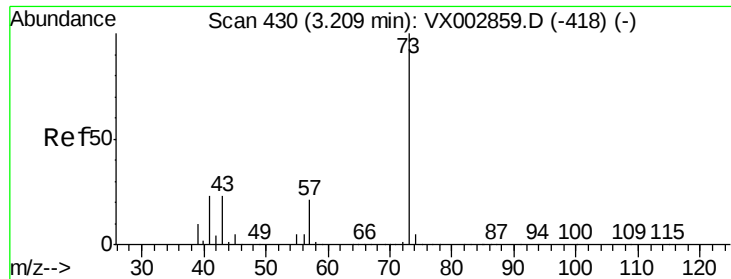
200

0

Time-->

2.55 2.60



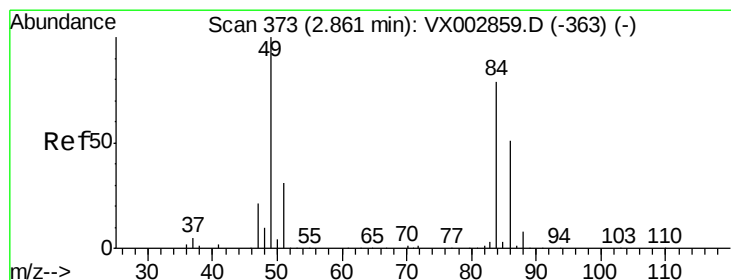
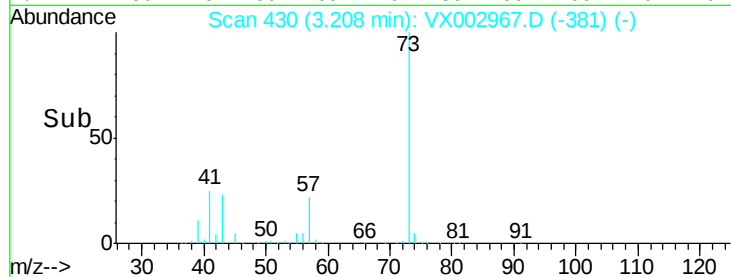
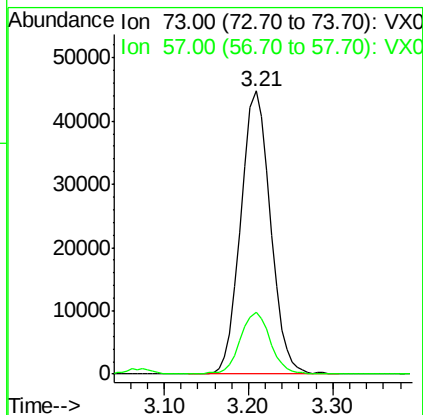
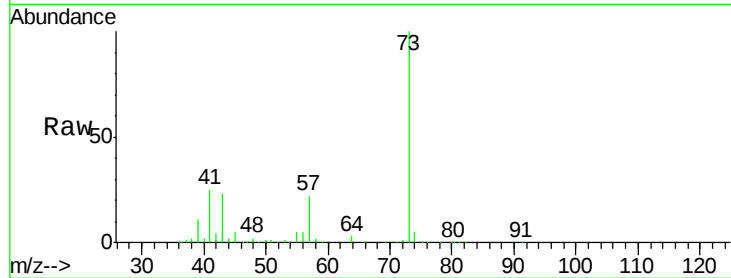


#19

Methyl tert-butyl Ether
 Concen: 11.03 ug/l
 RT: 3.21 min Scan# 430
 Delta R.T. -0.00 min
 Lab File: VX002967.D
 Acq: 28 Jun 2018 05:45

Instrument :
 MSVOA_X
 ClientSampled :
 W-29

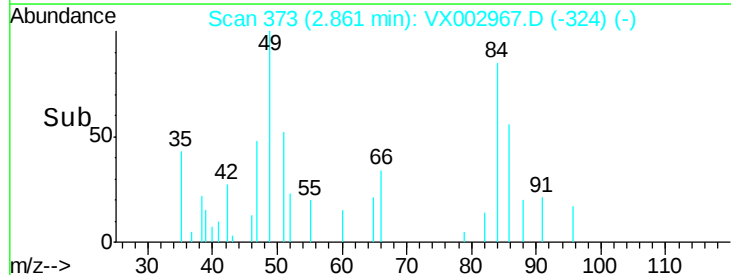
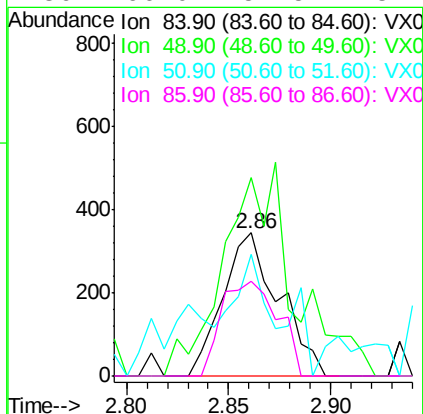
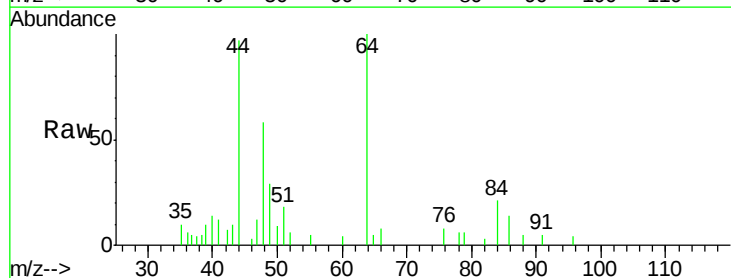
Tot Ion: 73 Resp: 106400
 Ion Ratio Lower Upper
 73 100
 57 22.0 17.7 26.5

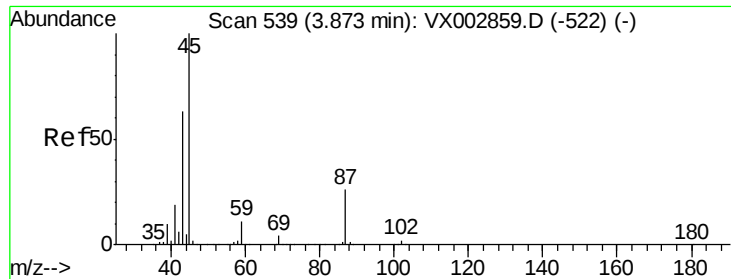


#20

Methylene Chloride
 Concen: 0.22 ug/l
 RT: 2.86 min Scan# 373
 Delta R.T. -0.00 min
 Lab File: VX002967.D
 Acq: 28 Jun 2018 05:45

Tgt Ion: 84 Resp: 658
 Ion Ratio Lower Upper
 84 100
 49 122.7 107.8 161.6
 51 56.7 32.8 49.2#
 86 66.0 52.5 78.7





#22

Diisopropyl ether

Concen: 1.23 ug/l

RT: 3.88 min Scan# 540

Delta R.T. 0.01 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

Instrument :

MSVOA_X

ClientSampleId :

W-29

Tot Ion: 45 Resp: 12449

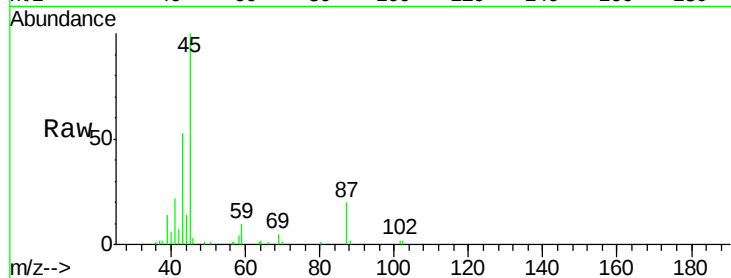
Ion Ratio Lower Upper

45 100

43 52.6 46.8 70.2

87 20.5 20.2 30.4

59 10.2 8.7 13.1

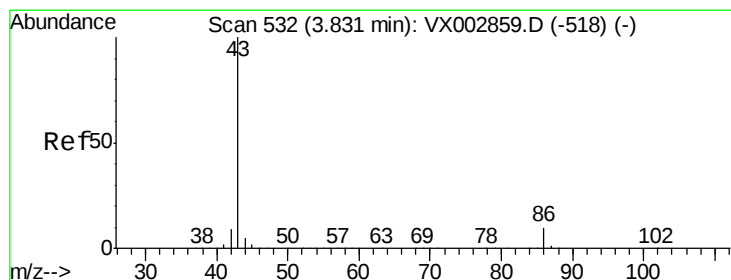
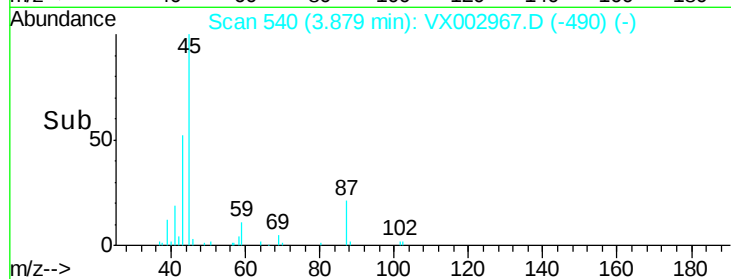
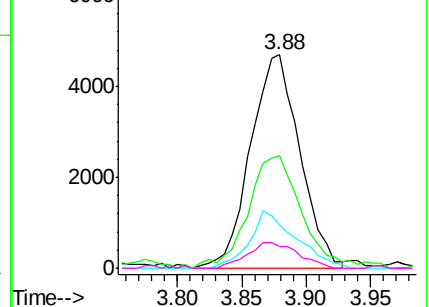


Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0



#23

Vinyl Acetate

Concen: 0.83 ug/l

RT: 3.88 min Scan# 540

Delta R.T. 0.05 min

Lab File: VX002967.D

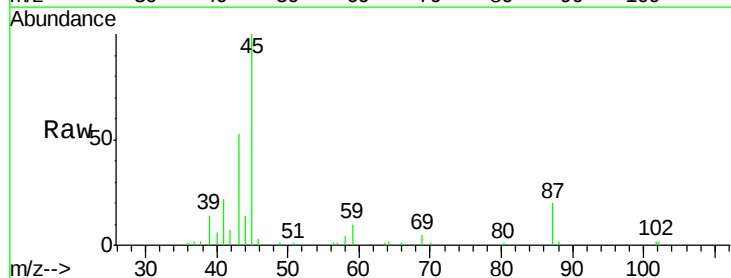
Acq: 28 Jun 2018 05:45

Tgt Ion: 43 Resp: 7082

Ion Ratio Lower Upper

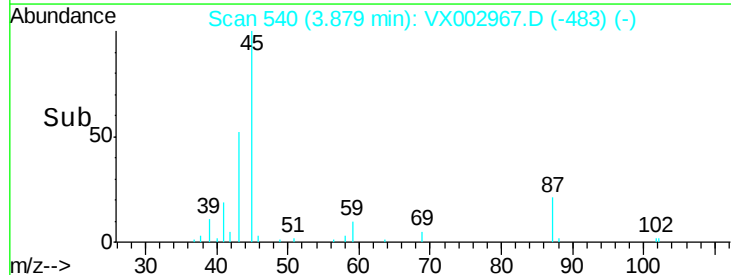
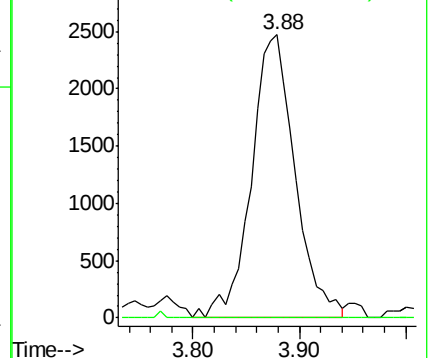
43 100

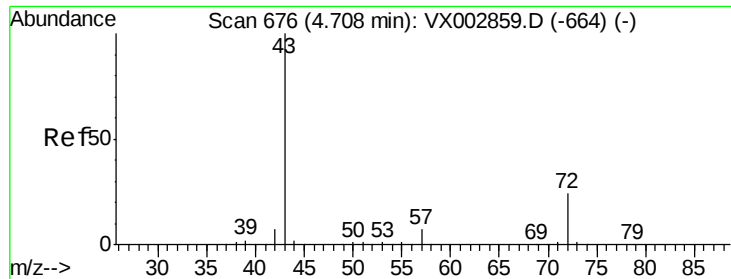
86 0.0 7.4 11.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0





#25

2-Butanone

Concen: 0.77 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.00 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

Instrument :

MSVOA_X

ClientSampled :

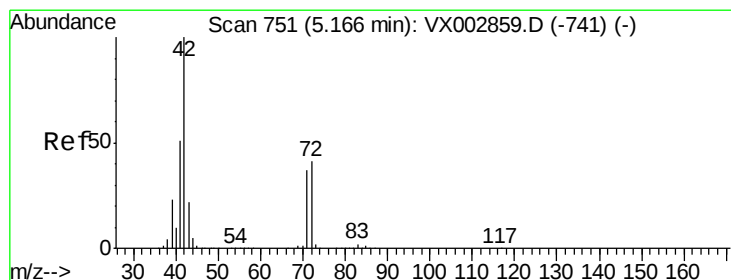
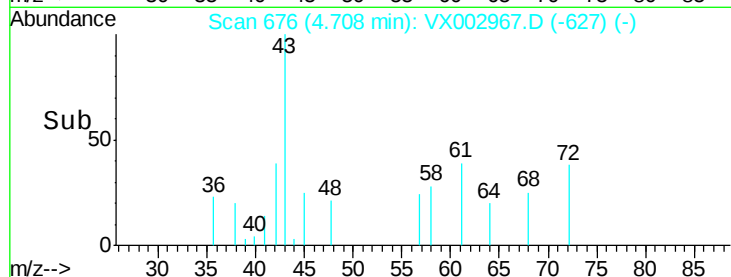
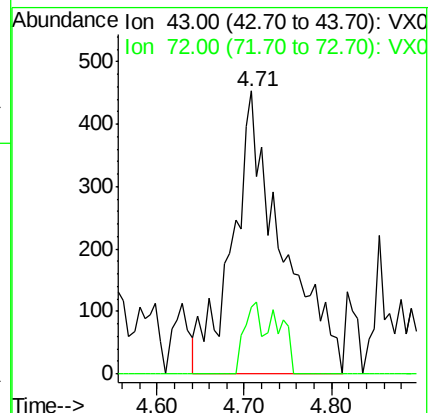
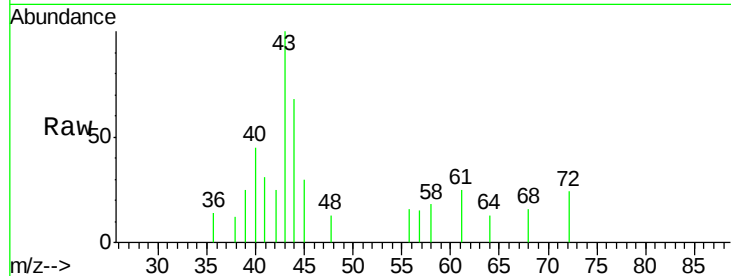
W-29

Tot Ion: 43 Resp: 1789

Ion Ratio Lower Upper

43 100

72 23.8 18.5 27.7



#29

Tetrahydrofuran

Concen: 0.99 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

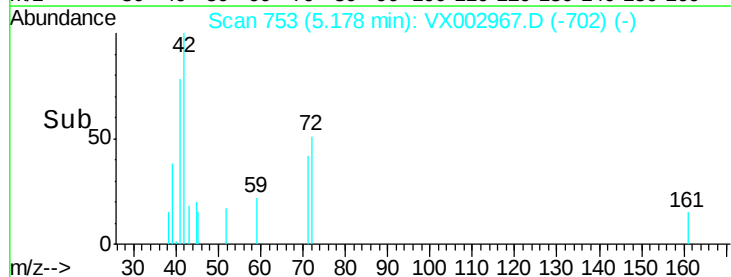
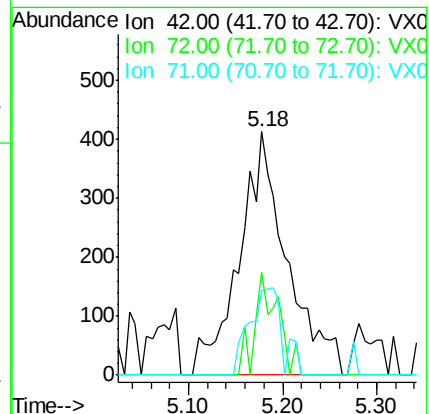
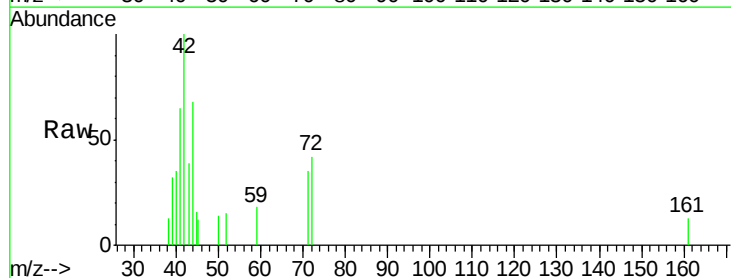
Tgt Ion: 42 Resp: 1467

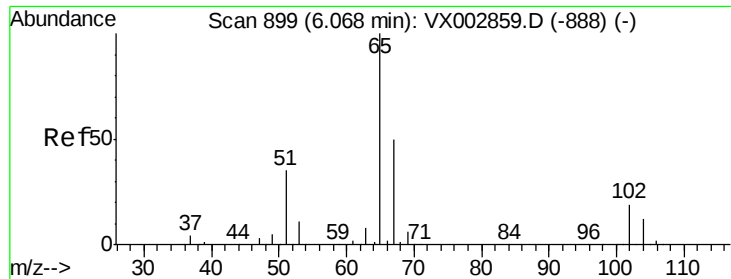
Ion Ratio Lower Upper

42 100

72 20.7 32.0 48.0#

71 25.2 30.1 45.1#





#33

1,2-Dichloroethane-d4

Concen: 48.79 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

Instrument :

MSVOA_X

ClientSampleId :

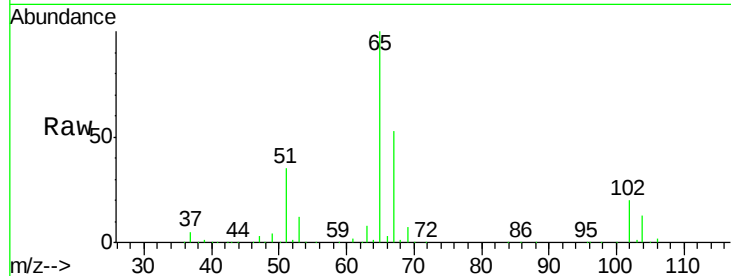
W-29

Tot Ion: 65 Resp: 183539

Ion Ratio Lower Upper

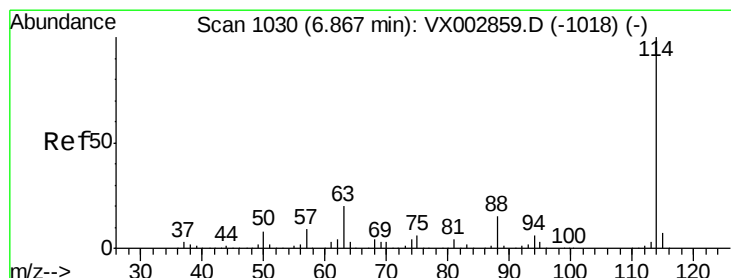
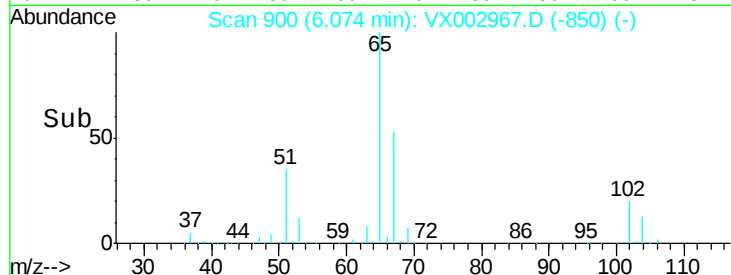
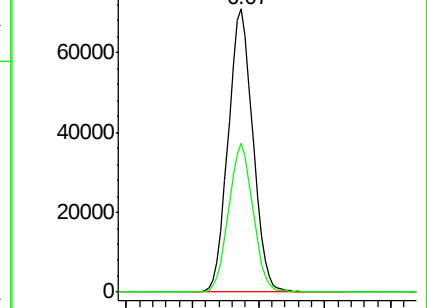
65 100

67 51.9 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: VX002967.D

Acq: 28 Jun 2018 05:45

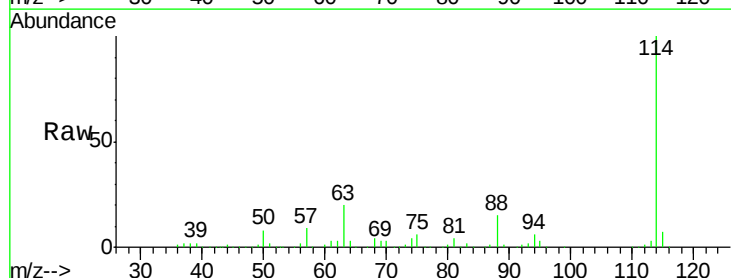
Tgt Ion: 114 Resp: 385423

Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.4

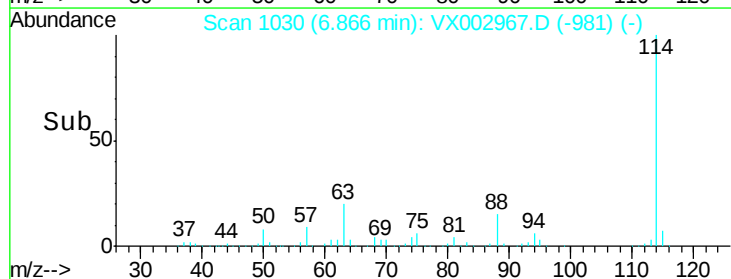
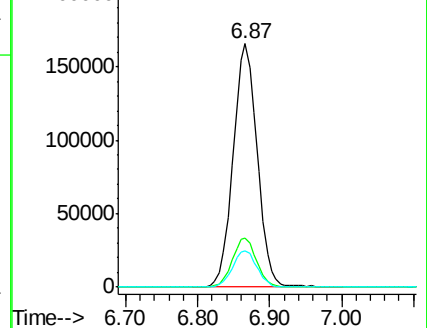
88 14.8 0.0 30.0

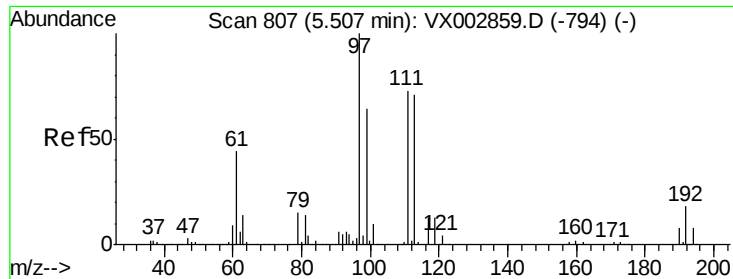


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

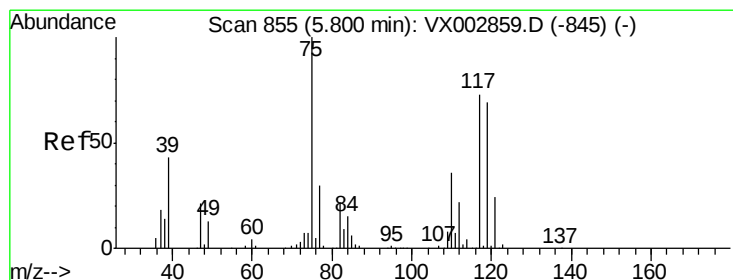
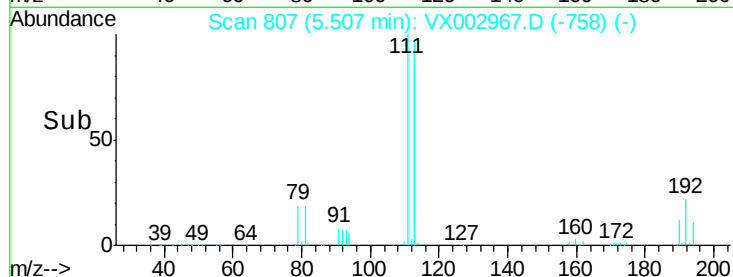
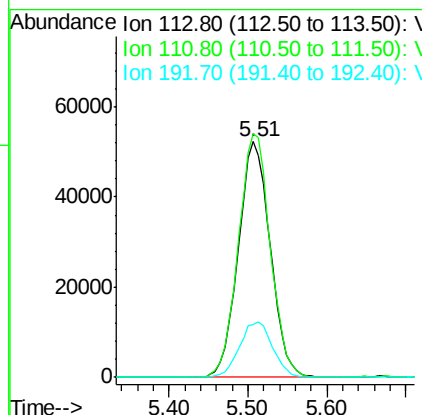
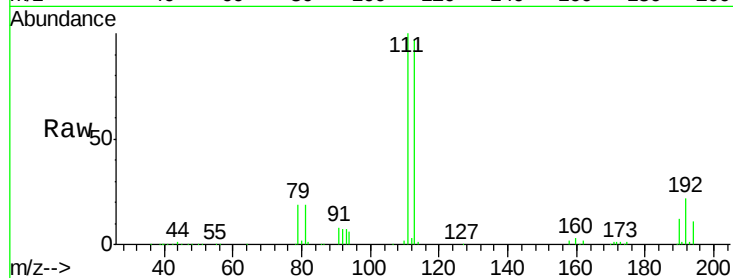




#35
Dibromofluoromethane
Concen: 48.32 ug/l
RT: 5.51 min Scan# 807
Delta R.T. -0.00 min
Lab File: VX002967.D
Acq: 28 Jun 2018 05:45

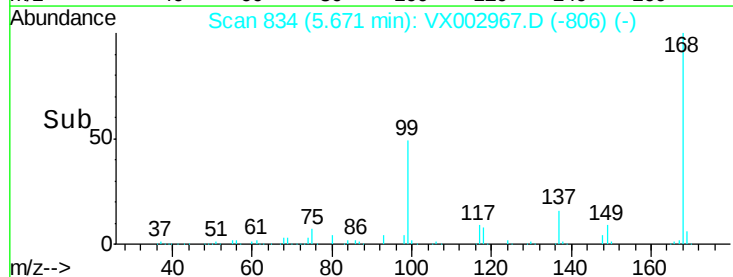
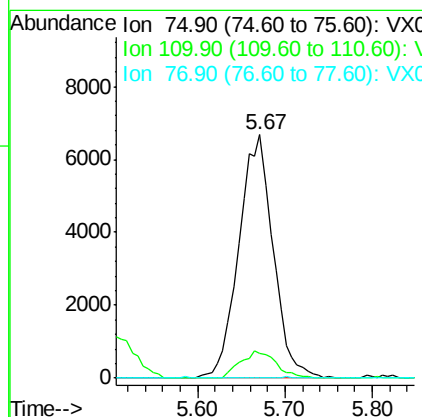
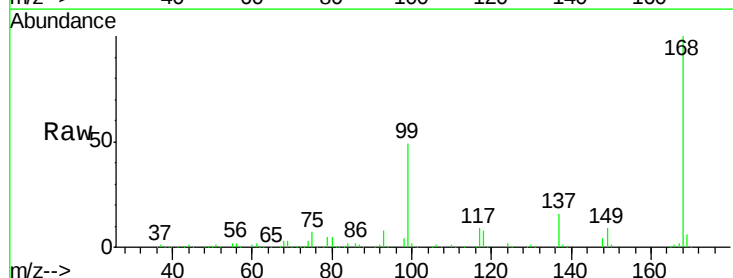
Instrument :
MSVOA_X
ClientSampleId :
W-29

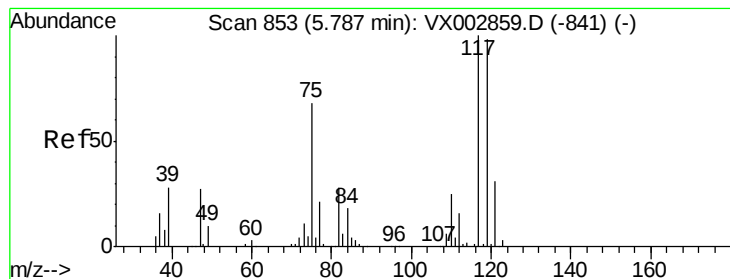
Tot Ion:113 Resp: 147469
Ion Ratio Lower Upper
113 100
111 103.4 81.4 122.0
192 24.5 19.1 28.7



#36
1,1-Dichloropropene
Concen: 4.32 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.13 min
Lab File: VX002967.D
Acq: 28 Jun 2018 05:45

Tgt Ion: 75 Resp: 18240
Ion Ratio Lower Upper
75 100
110 11.5 18.1 54.4#
77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.36 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

Instrument :

MSVOA_X

ClientSampled :

W-29

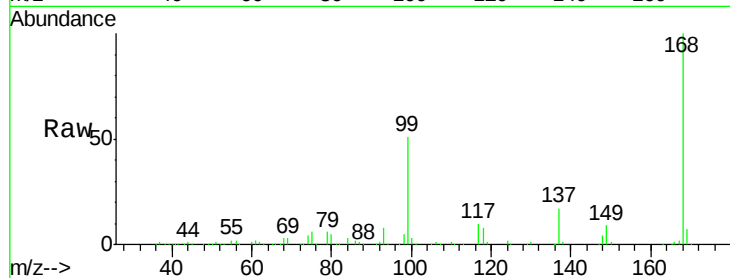
Tot Ion:117 Resp: 24846

Ion Ratio Lower Upper

117 100

119 5.2 77.4 116.0#

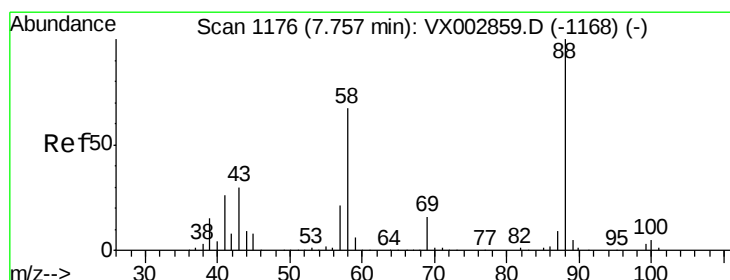
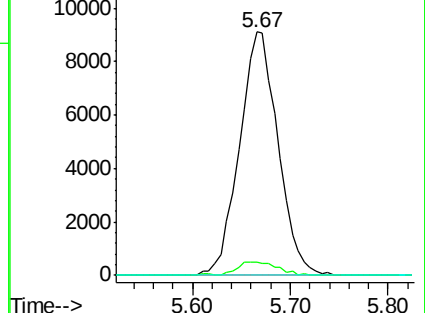
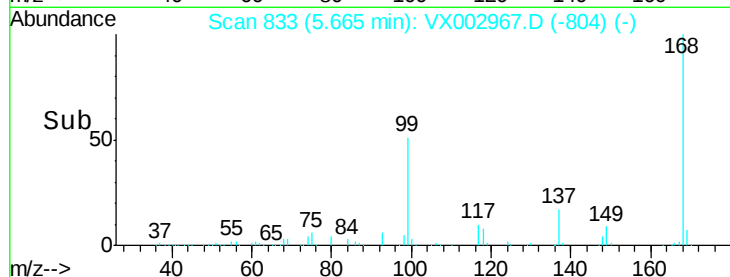
121 0.0 24.4 36.6#



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



#49

1,4-Dioxane

Concen: 0.25 ug/l

RT: 7.82 min Scan# 1187

Delta R.T. 0.07 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

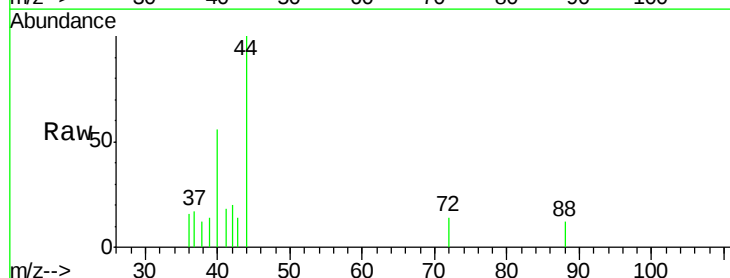
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 415.8 29.8 44.6#

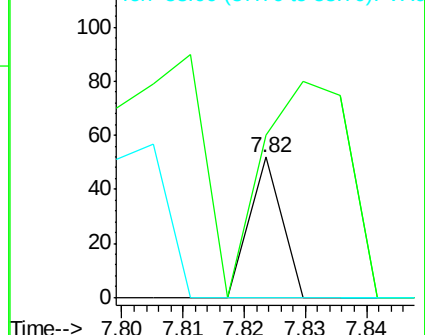
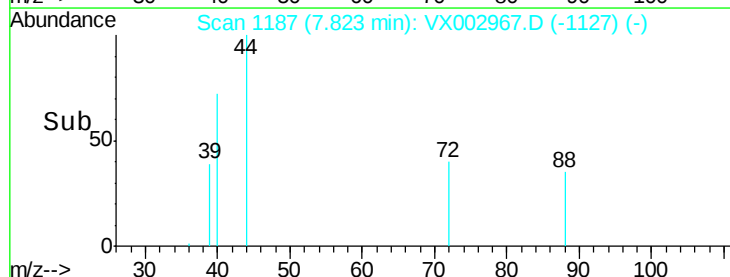
58 0.0 57.1 85.7#

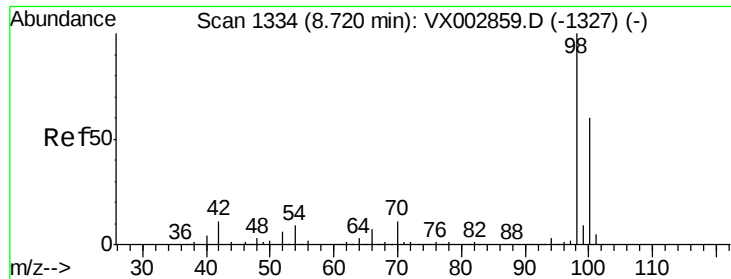


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.75 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

Instrument :

MSVOA_X

ClientSampleId :

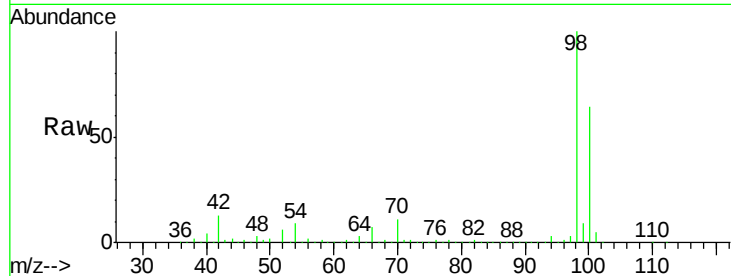
W-29

Tot Ion: 98 Resp: 543365

Ion Ratio Lower Upper

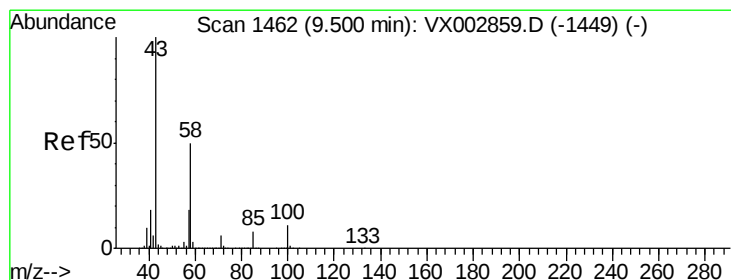
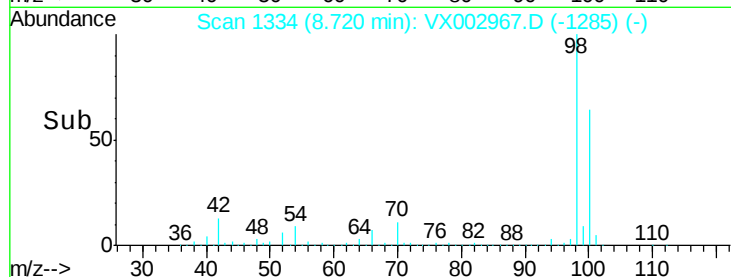
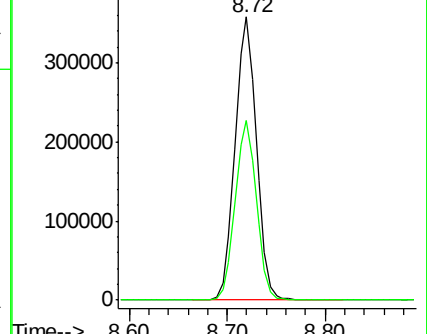
98 100

100 63.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#59

2-Hexanone

Concen: 0.26 ug/l

RT: 9.32 min Scan# 1432

Delta R.T. -0.18 min

Lab File: VX002967.D

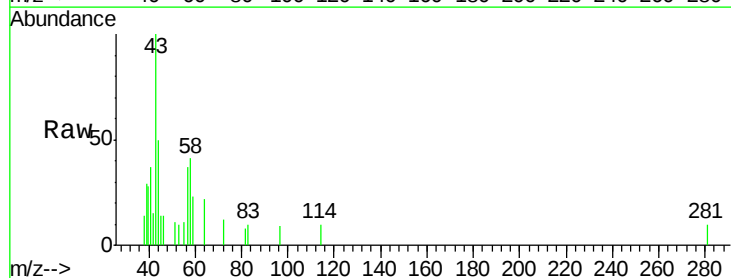
Acq: 28 Jun 2018 05:45

Tgt Ion: 43 Resp: 940

Ion Ratio Lower Upper

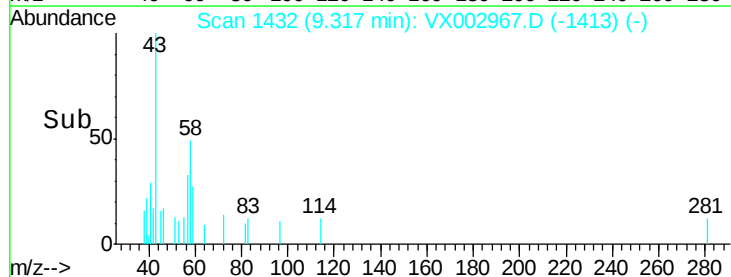
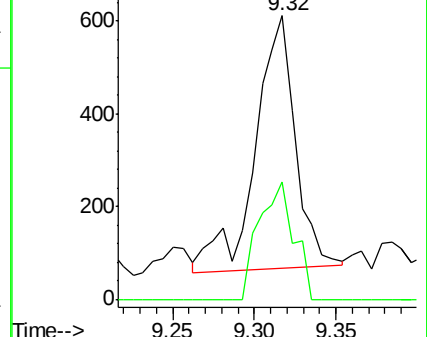
43 100

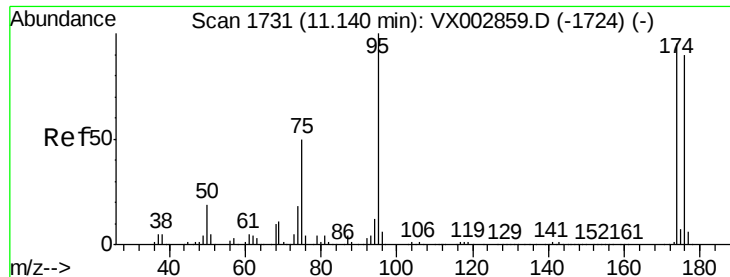
58 40.0 24.6 73.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.21 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

Instrument :

MSVOA_X

ClientSampled :

W-29

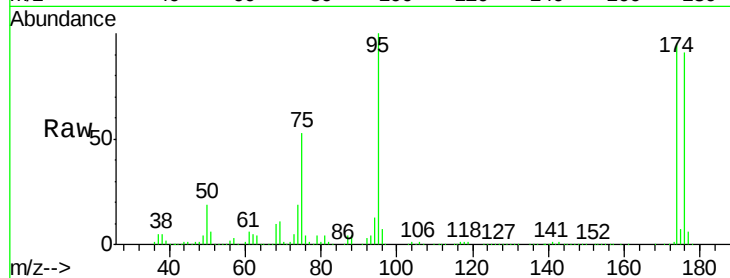
Tot Ion: 95 Resp: 194337

Ion Ratio Lower Upper

95 100

174 97.2 0.0 187.4

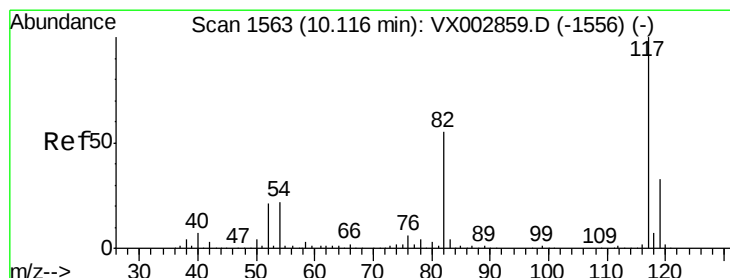
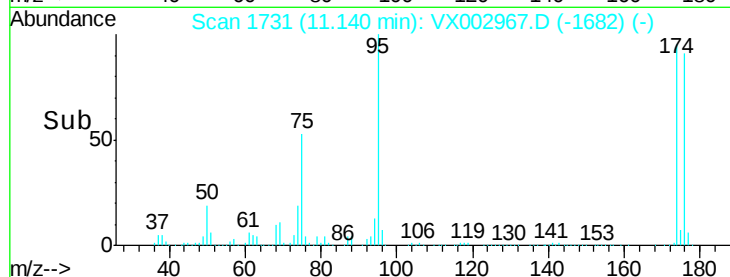
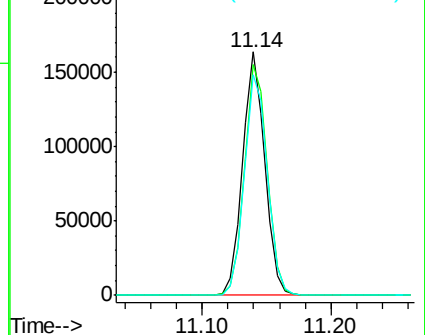
176 93.7 0.0 181.0



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# 1563

Delta R.T. -0.00 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

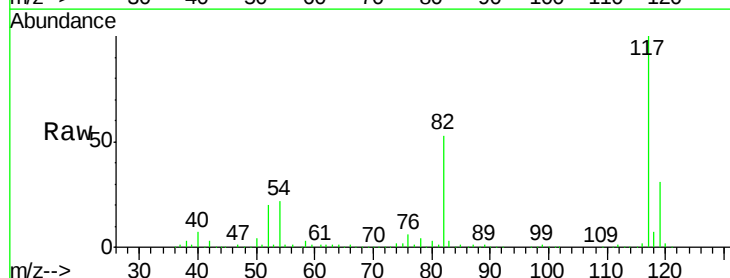
Tgt Ion: 117 Resp: 361203

Ion Ratio Lower Upper

117 100

82 53.0 45.0 67.4

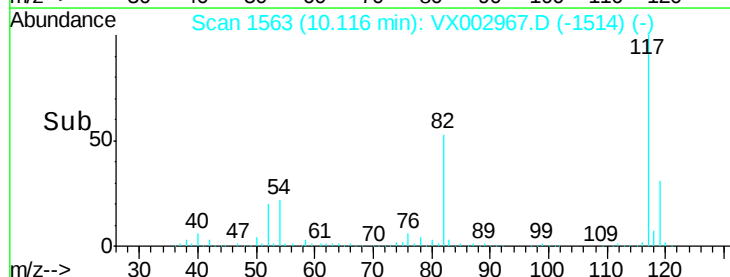
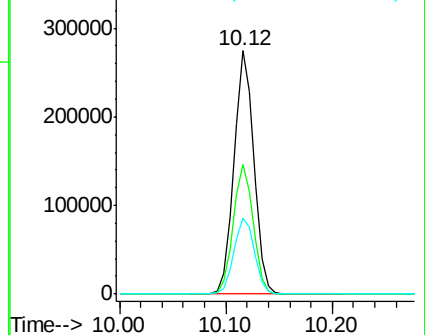
119 31.4 25.8 38.6

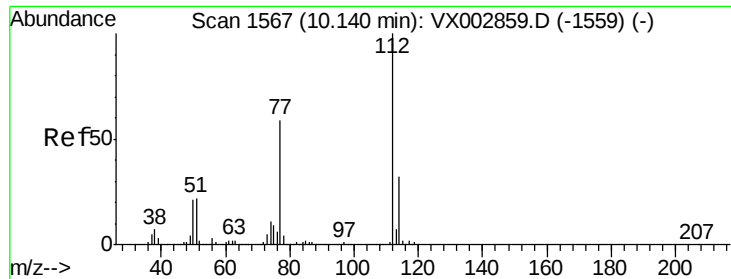


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#65

Chlorobenzene

Concen: 17.40 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

Instrument :

MSVOA_X

ClientSampled :

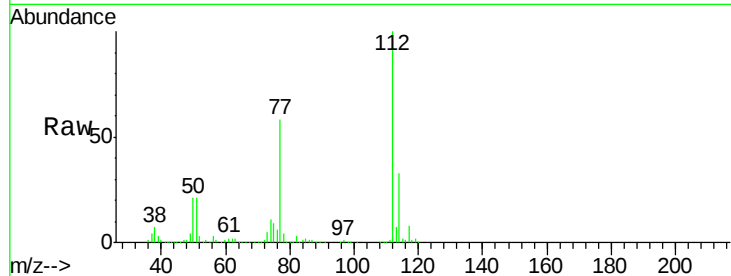
W-29

Tot Ion:112 Resp: 159628

Ion Ratio Lower Upper

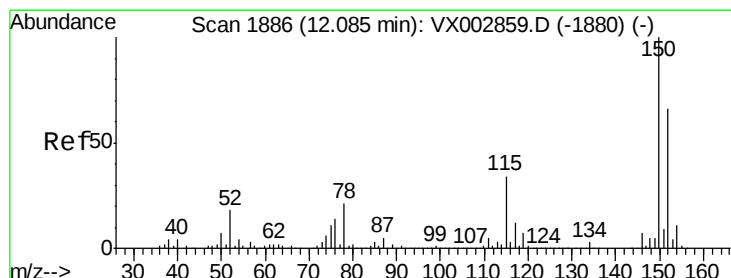
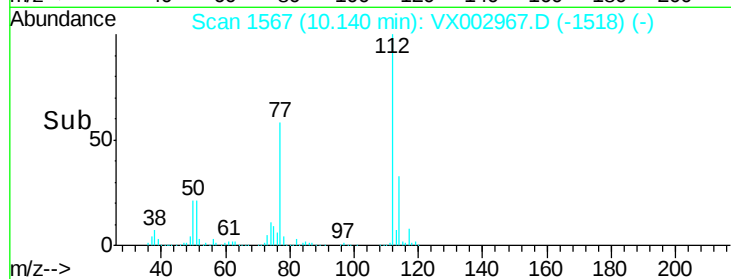
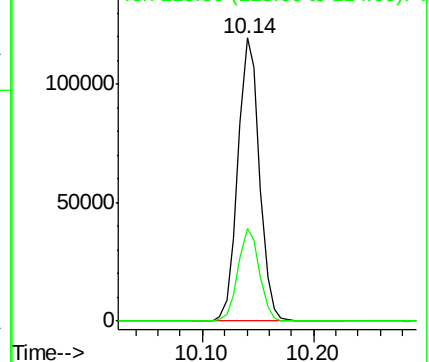
112 100

114 32.6 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VX002967.D

Acq: 28 Jun 2018 05:45

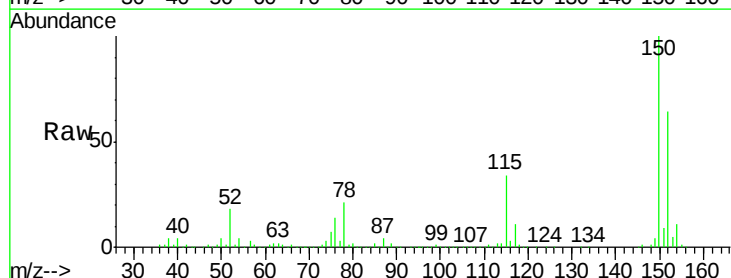
Tgt Ion:152 Resp: 209195

Ion Ratio Lower Upper

152 100

115 54.6 40.1 120.2

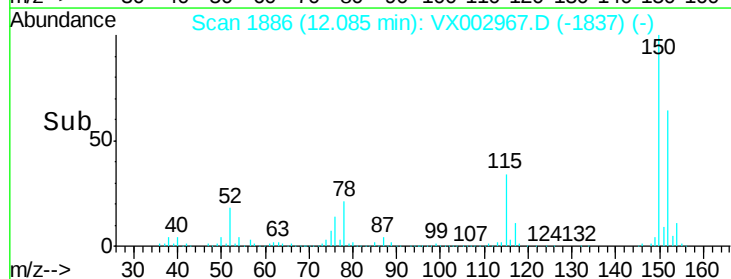
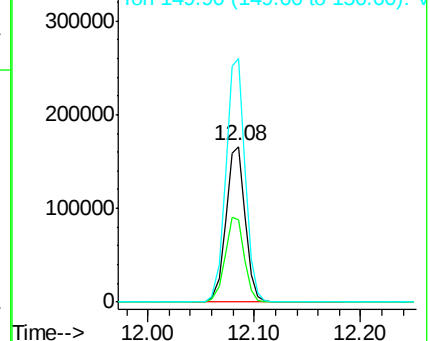
150 157.4 0.0 347.2

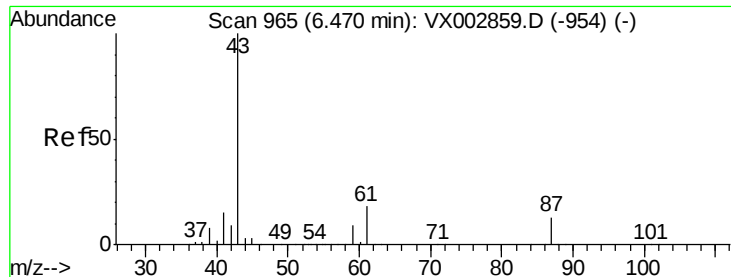


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.22 ug/l

RT: 6.45 min Scan# 962

Delta R.T. -0.02 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

Instrument :

MSVOA_X

ClientSampleId :

W-29

Tot Ion: 43 Resp: 1496

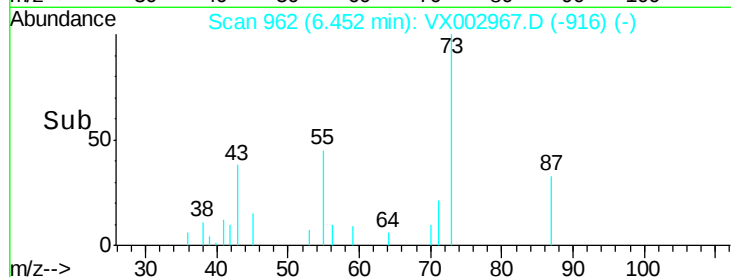
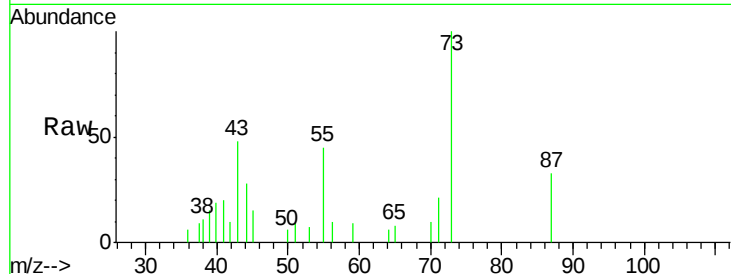
Ion Ratio Lower Upper

43 100

70 7.7 0.0 0.0#

55 69.1 0.0 0.0#

61 0.0 14.4 21.6#

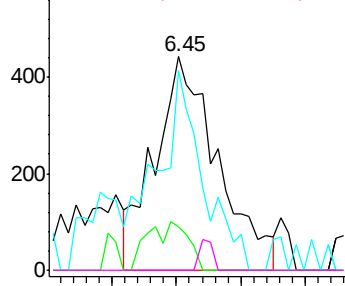


Abundance Ion 43.00 (42.70 to 43.70): VX0

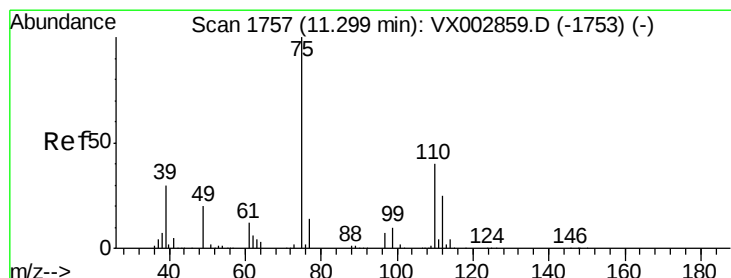
Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



Time-->



#76

1,2,3-Trichloropropane

Concen: 26.95 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002967.D

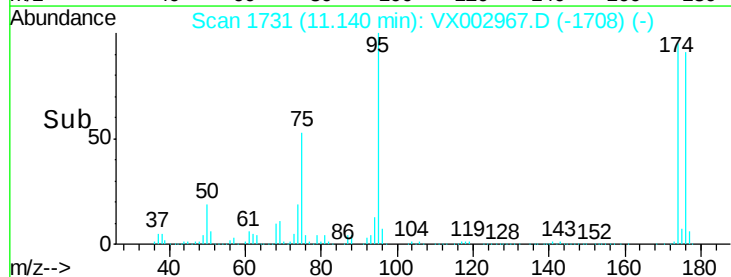
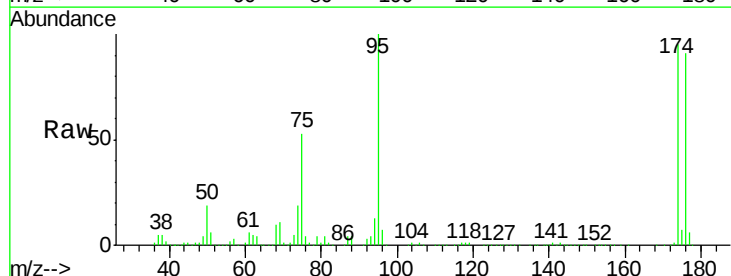
Acq: 28 Jun 2018 05:45

Tgt Ion: 75 Resp: 102137

Ion Ratio Lower Upper

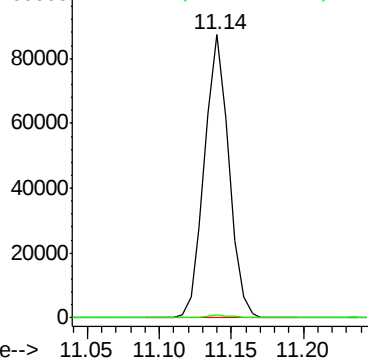
75 100

77 1.3 22.8 68.3#

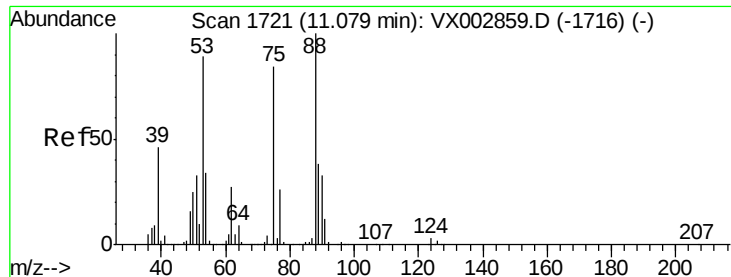


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 76.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

Instrument :

MSVOA_X

ClientSampleId :

W-29

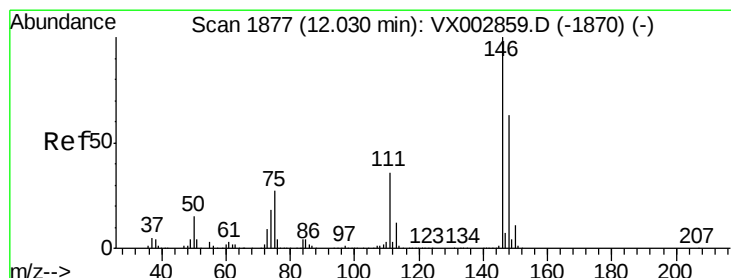
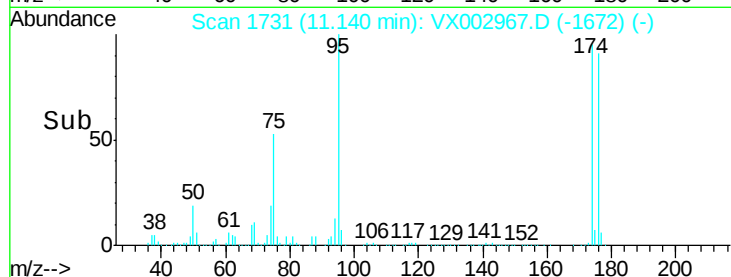
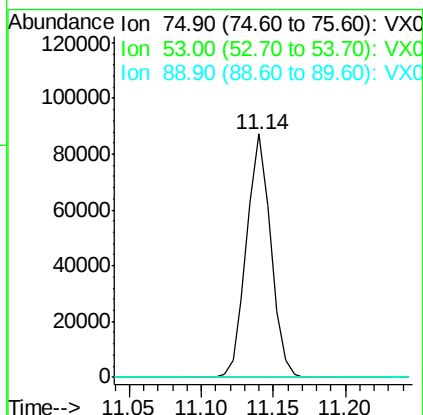
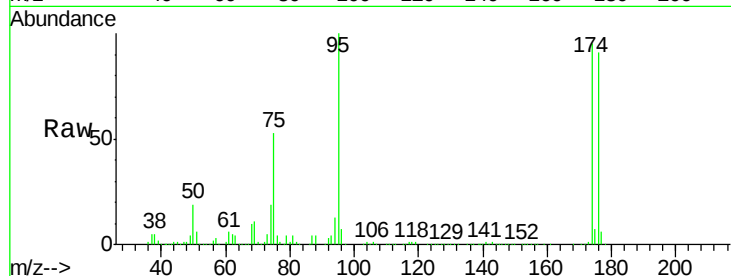
Tot Ion: 75 Resp: 102137

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#



#87

1,3-Dichlorobenzene

Concen: 3.01 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. 0.07 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

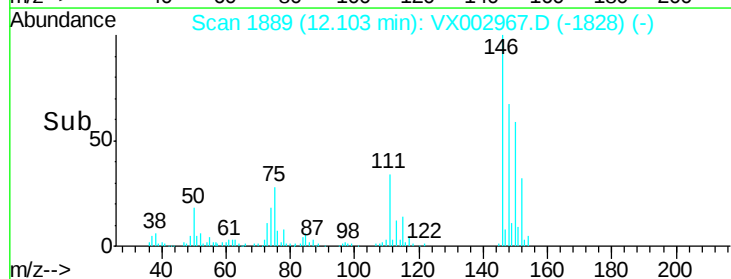
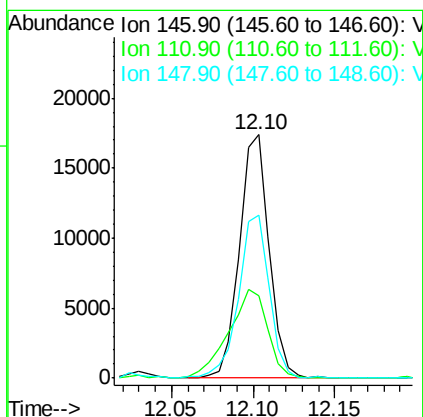
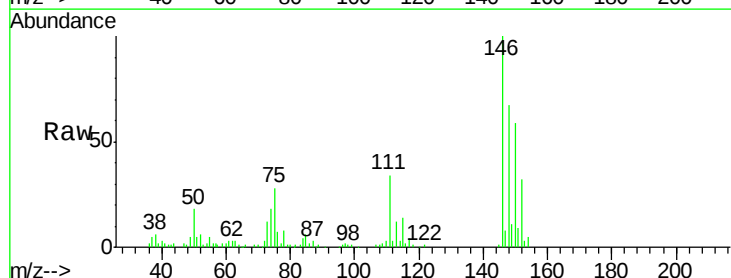
Tgt Ion: 146 Resp: 22043

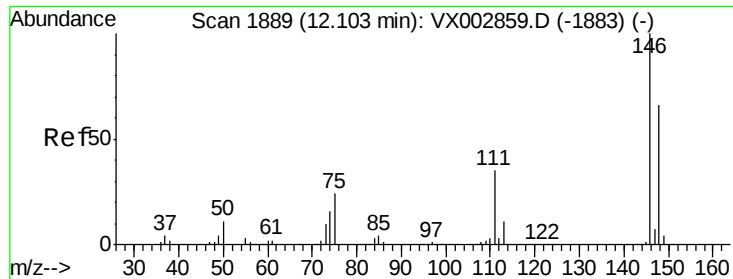
Ion Ratio Lower Upper

146 100

111 47.6 18.9 56.7

148 69.6 32.1 96.3





#88

1,4-Dichlorobenzene

Concen: 2.93 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VX002967.D

Acq: 28 Jun 2018 05:45

Instrument :

MSVOA_X

ClientSampleId :

W-29

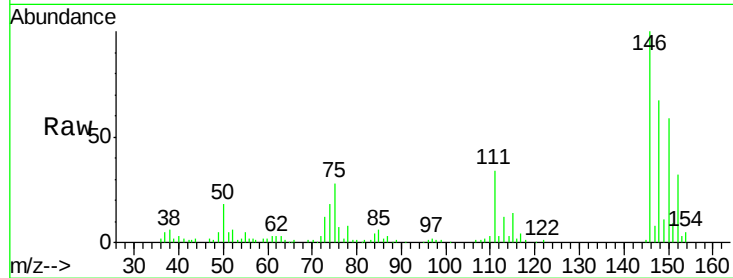
Tot Ion:146 Resp: 22043

Ion Ratio Lower Upper

146 100

111 47.6 18.7 56.1

148 69.6 32.4 97.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

