

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX011019\
 Data File : VX006988.D
 Acq On : 10 Jan 2019 14:27
 Operator : JC/MD
 Sample : PB116275TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116275TB

Quant Time: Jan 11 07:12:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	614550	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	947517	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	890075	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	423702	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	326774	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
35) Dibromofluoromethane	5.50	113	294624	48.55	ug/l	0.00
Spiked Amount			Recovery	=	97.10%	
50) Toluene-d8	8.71	98	1144473	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	
62) 4-Bromofluorobenzene	11.13	95	403601	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	

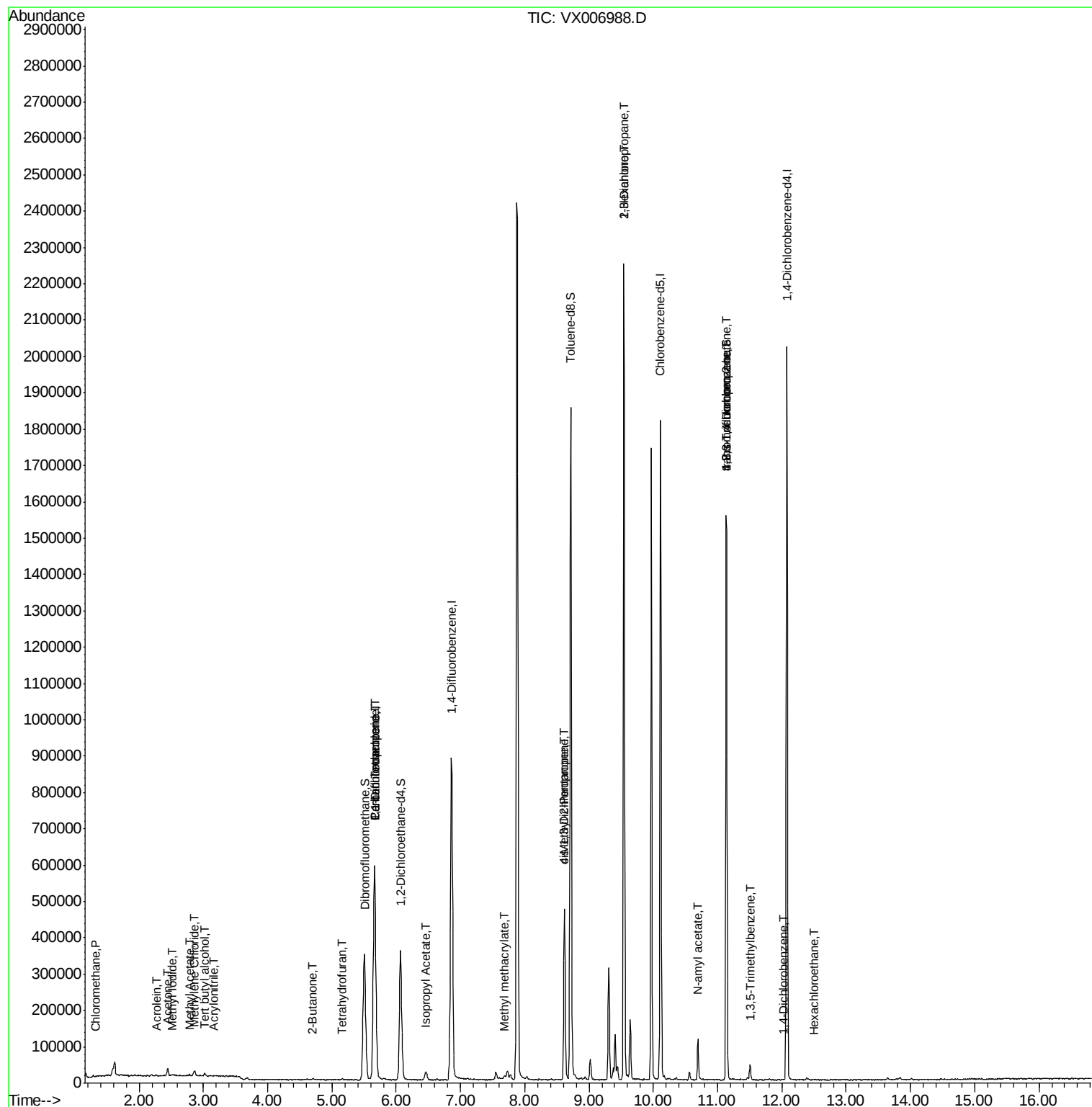
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1362	0.232	ug/l #	75
10) Methyl Iodide	2.52	142	1791	0.217	ug/l #	80
11) Tert butyl alcohol	3.03	59	4218	2.784	ug/l #	86
13) Acrolein	2.28	56	189	3.370	ug/l #	1
15) Acrylonitrile	3.16	53	764	0.220	ug/l #	78
16) Acetone	2.45	43	21262	6.696	ug/l	99
18) Methyl Acetate	2.78	43	3032	0.330	ug/l #	60
20) Methylene Chloride	2.86	84	7078	0.613	ug/l #	81
25) 2-Butanone	4.70	43	3251	0.716	ug/l	92
29) Tetrahydrofuran	5.16	42	3121	1.057	ug/l	94
36) 1,1-Dichloropropene	5.67	75	38829	4.713	ug/l #	39
38) Carbon Tetrachloride	5.67	117	56769	6.849	ug/l #	15
43) Isopropyl Acetate	6.46	43	28769	2.065	ug/l	96
48) Methyl methacrylate	7.68	41	13715	1.917	ug/l #	11
49) 1,4-Dioxane	7.76	88	378	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	149104	16.654	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	76442	8.257	ug/l #	64
57) 1,3-Dichloropropane	9.54	76	18050	1.704	ug/l #	42
59) 2-Hexanone	9.54	43	245239	35.945	ug/l #	51
74) N-amyl acetate	10.69	43	24735	2.056	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	189623	22.085	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	16966	0.680	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.13	75	189623	65.389	ug/l #	10
88) 1,4-Dichlorobenzene	12.03	146	891	0.208	ug/l	90
90) Hexachloroethane	12.49	117	157	2.943	ug/l	69

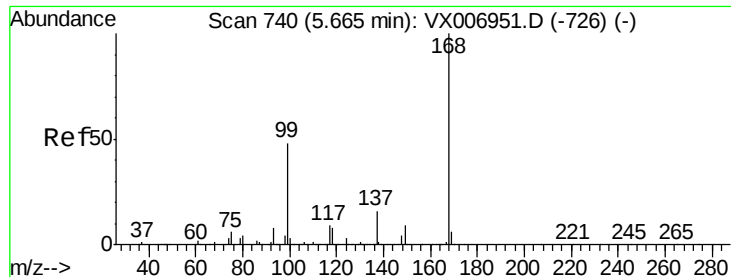
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX011019\
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ClientSampleId :
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Quant Time: Jan 11 07:12:28 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

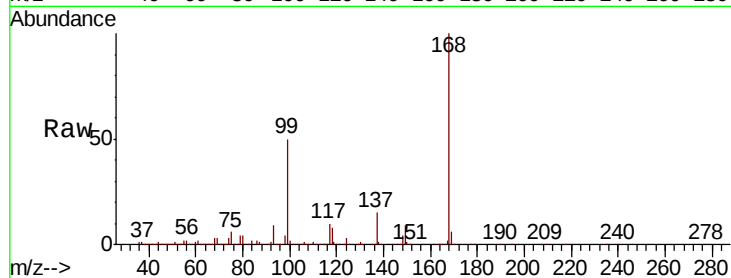
PB116275TB

Tgt Ion:168 Resp: 614550

Ion Ratio Lower Upper

168 100

99 49.5 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

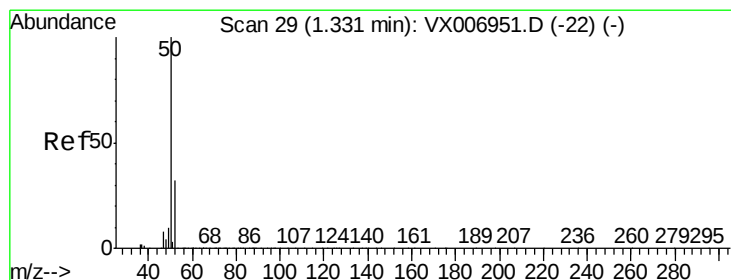
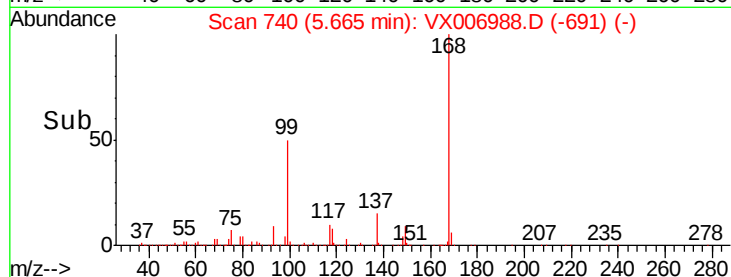
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.232 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX006988.D

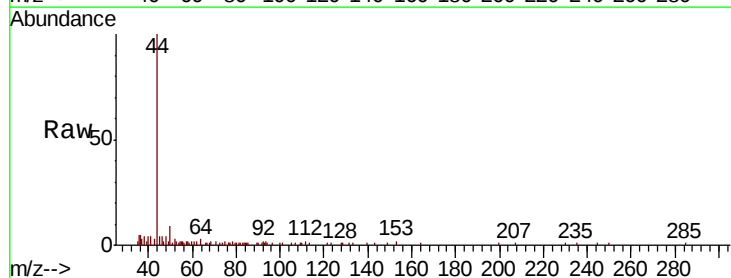
Acq: 10 Jan 2019 14:27

Tgt Ion: 50 Resp: 1362

Ion Ratio Lower Upper

50 100

52 18.1 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

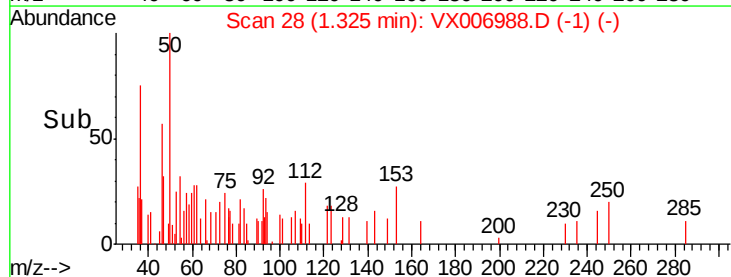
600

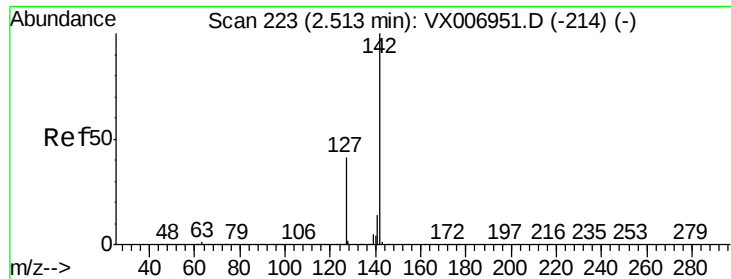
400

200

0

Time--> 1.30 1.35

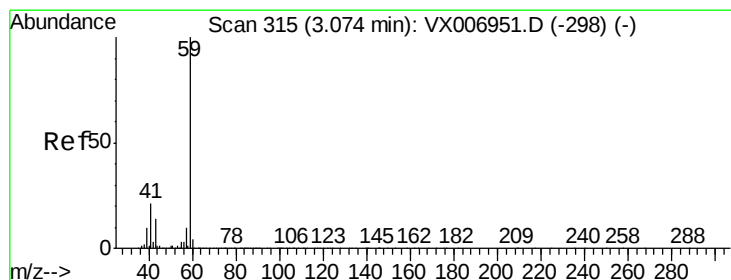
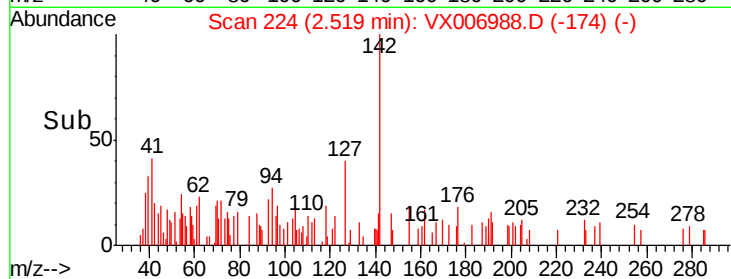
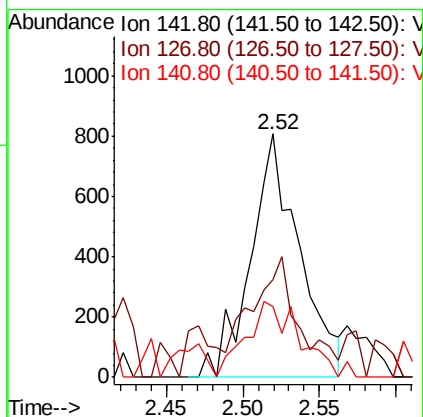
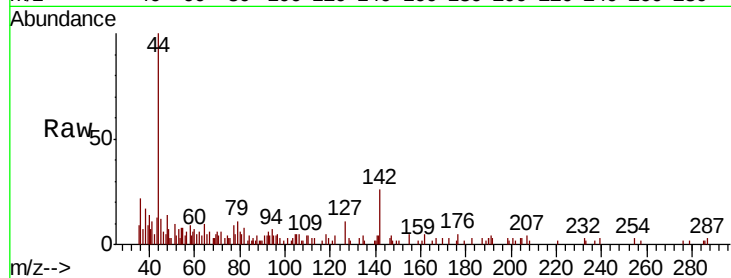




#10
Methyl Iodide
Concen: 0.217 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX006988.D
Acq: 10 Jan 2019 14:27

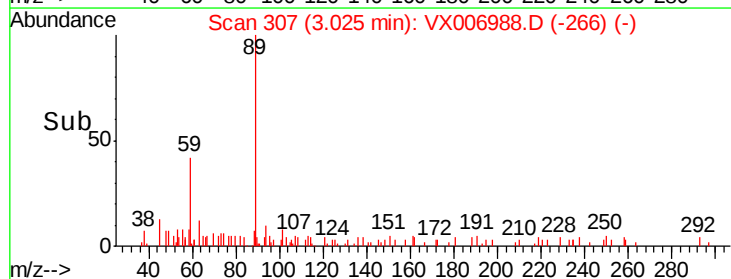
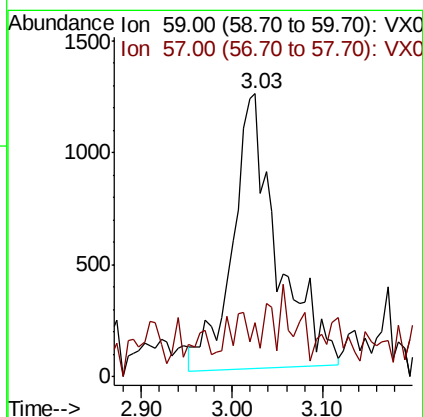
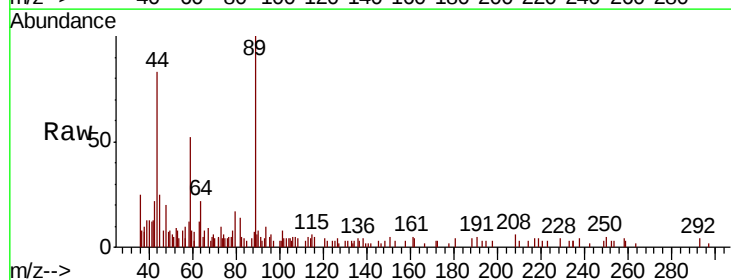
Instrument :
MSVOA_X
ClientSampled :
PB116275TB

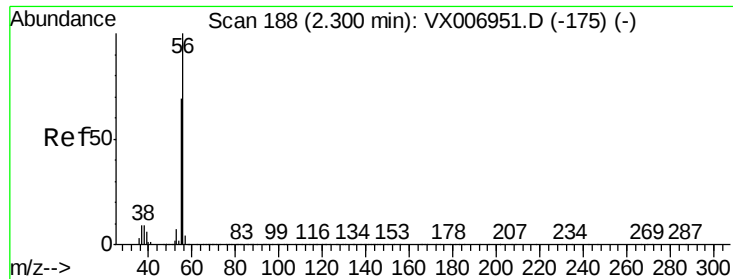
Tgt Ion:142 Resp: 1791
Ion Ratio Lower Upper
142 100
127 36.0 33.9 50.9
141 34.8 11.4 17.0#



#11
Tert butyl alcohol
Concen: 2.784 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX006988.D
Acq: 10 Jan 2019 14:27

Tgt Ion: 59 Resp: 4218
Ion Ratio Lower Upper
59 100
57 5.5 8.5 12.7#





#13

Acrolein

Concen: 3.370 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

Instrument :

MSVOA_X

ClientSampled :

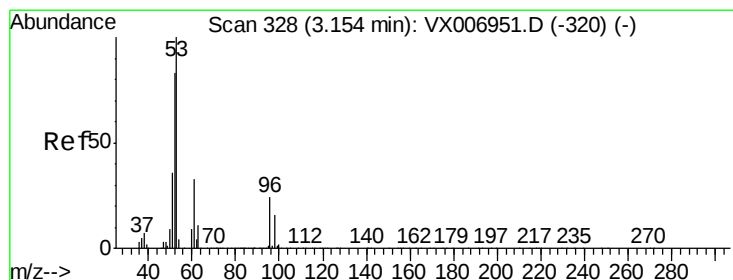
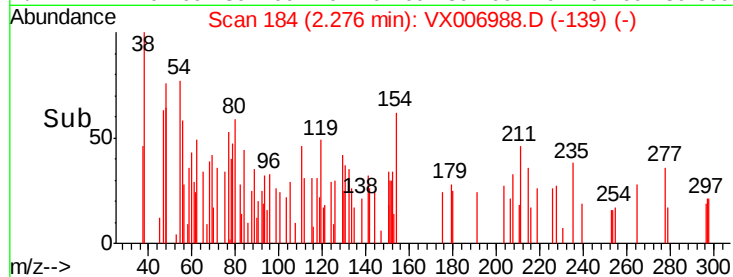
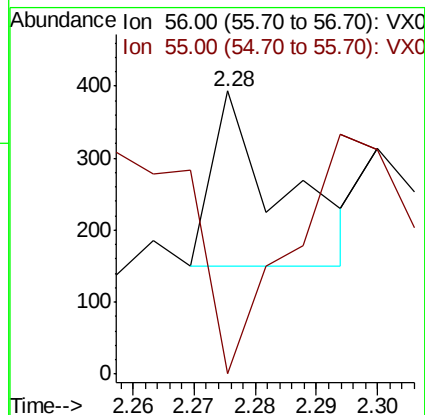
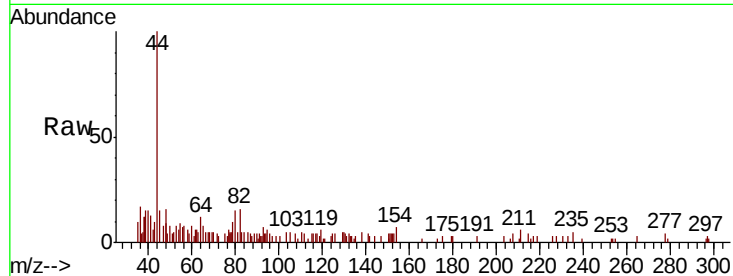
PB116275TB

Tgt Ion: 56 Resp: 189

Ion Ratio Lower Upper

56 100

55 228.0 58.2 87.4#



#15

Acrylonitrile

Concen: 0.220 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

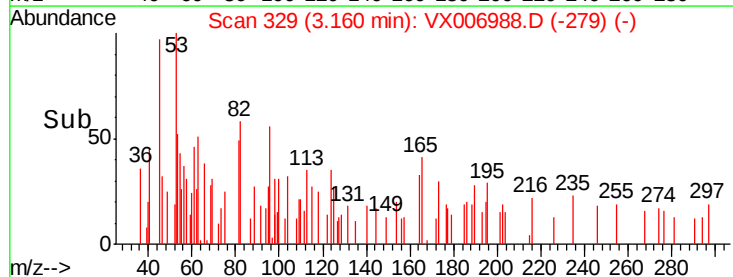
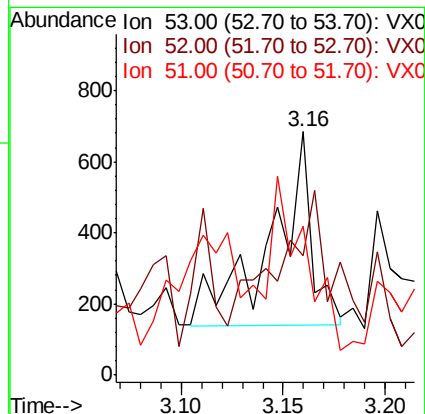
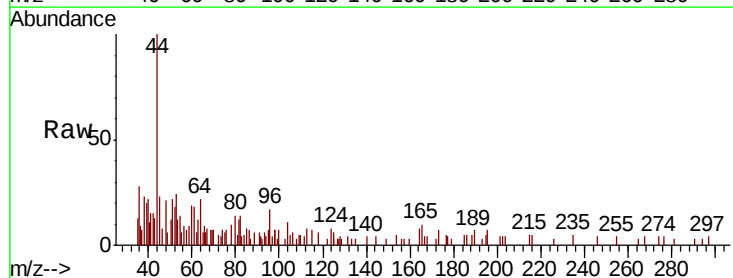
Tgt Ion: 53 Resp: 764

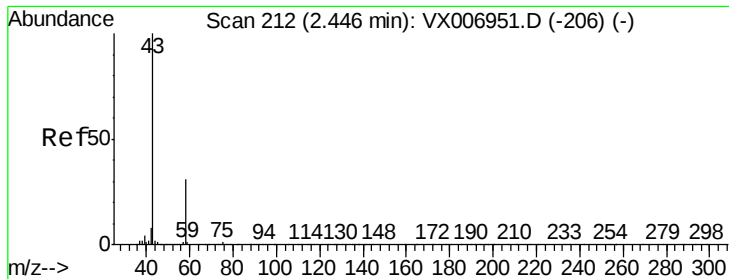
Ion Ratio Lower Upper

53 100

52 82.1 66.0 99.0

51 78.0 28.6 42.8#

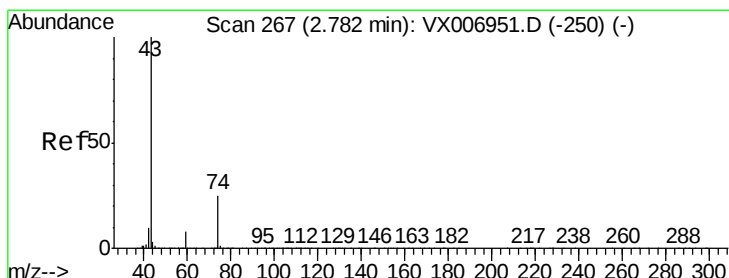
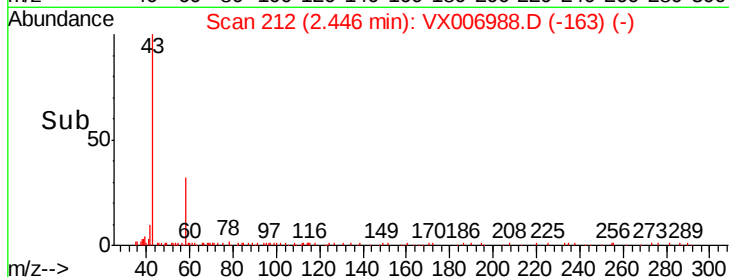
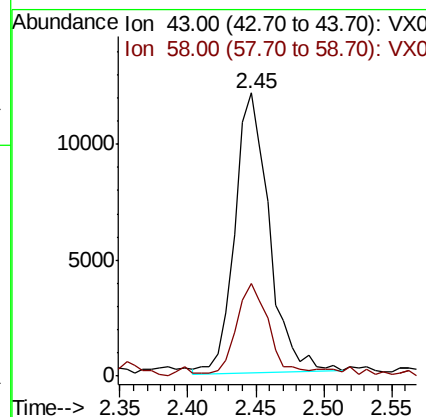
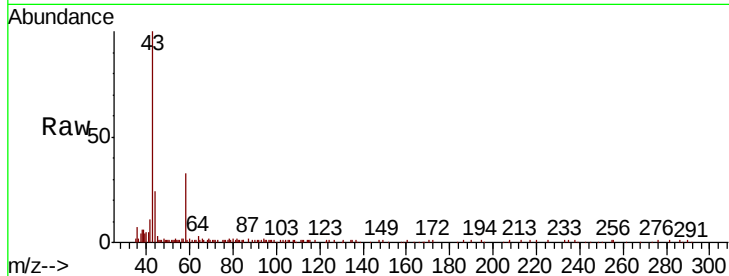




#16
Acetone
Concen: 6.696 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006988.D
Acq: 10 Jan 2019 14:27

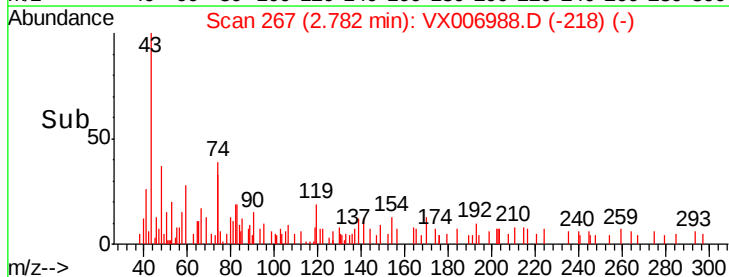
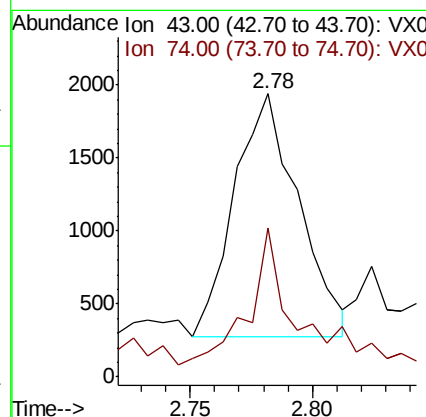
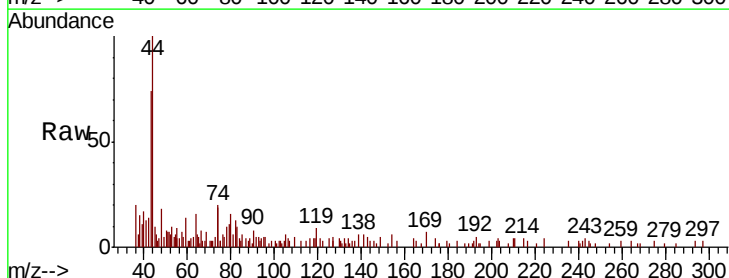
Instrument :
MSVOA_X
ClientSampled :
PB116275TB

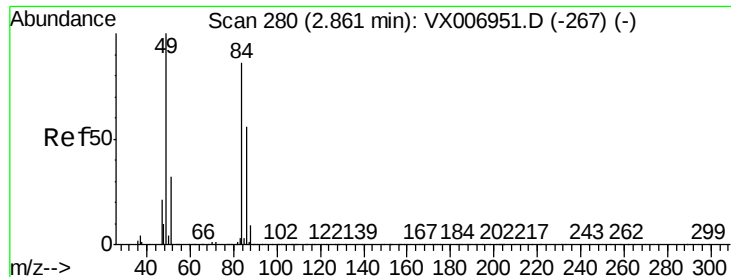
Tgt Ion: 43 Resp: 21262
Ion Ratio Lower Upper
43 100
58 31.9 25.0 37.6



#18
Methyl Acetate
Concen: 0.330 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX006988.D
Acq: 10 Jan 2019 14:27

Tgt Ion: 43 Resp: 3032
Ion Ratio Lower Upper
43 100
74 42.8 18.6 28.0#





#20

Methylene Chloride

Concen: 0.613 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

PB116275TB

Tgt Ion: 84 Resp: 7078

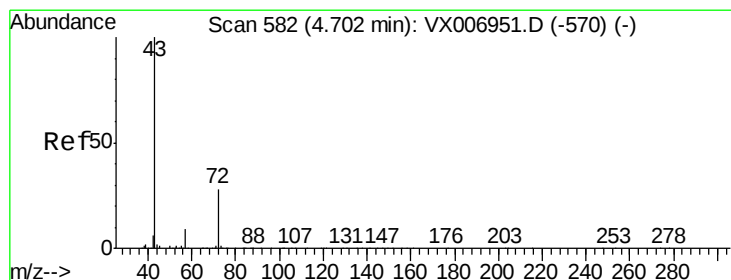
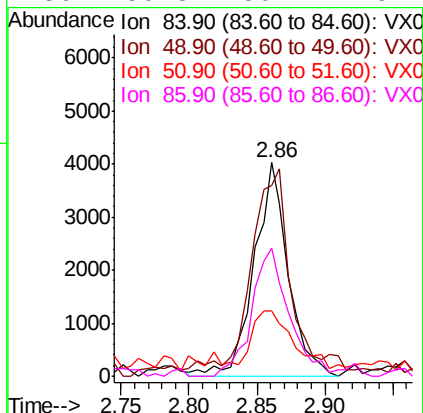
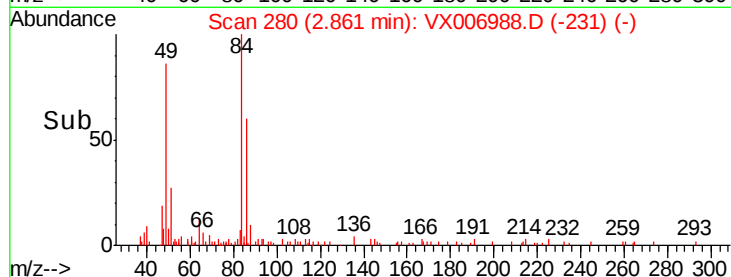
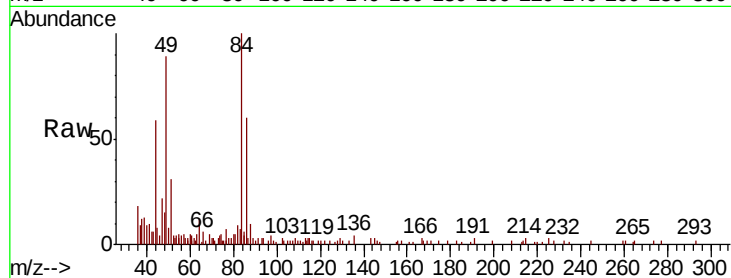
Ion Ratio Lower Upper

84 100

49 85.6 91.8 137.6#

51 25.4 28.5 42.7#

86 59.8 50.2 75.2



#25

2-Butanone

Concen: 0.716 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX006988.D

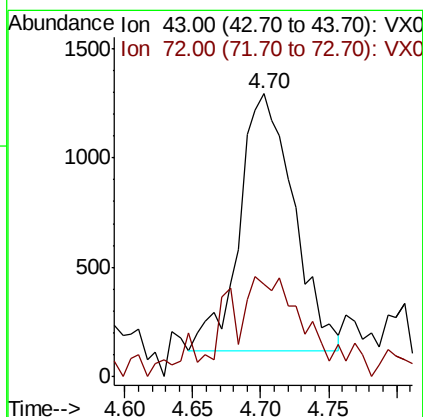
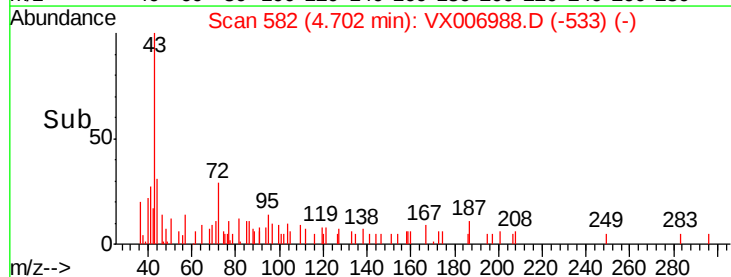
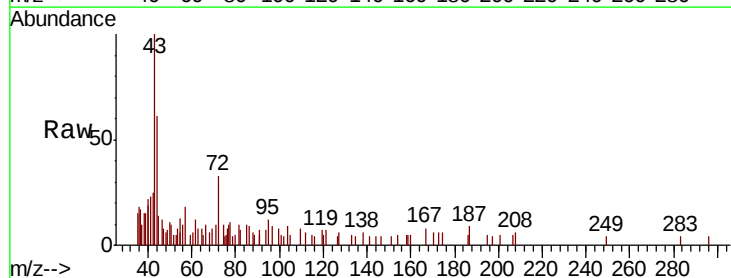
Acq: 10 Jan 2019 14:27

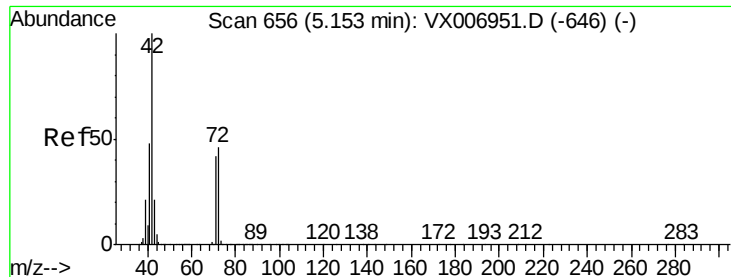
Tgt Ion: 43 Resp: 3251

Ion Ratio Lower Upper

43 100

72 23.6 22.4 33.6





#29

Tetrahydrofuran

Concen: 1.057 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

Instrument :

MSVOA_X

ClientSampled :

PB116275TB

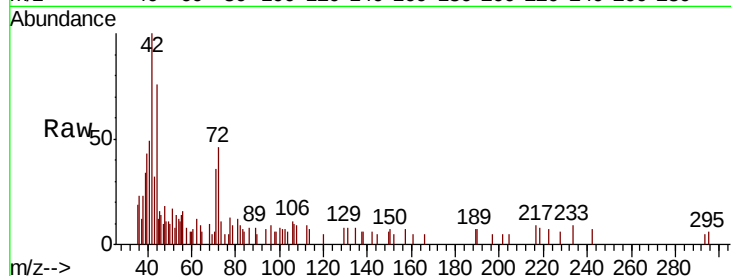
Tgt Ion: 42 Resp: 3121

Ion Ratio Lower Upper

42 100

72 41.6 38.9 58.3

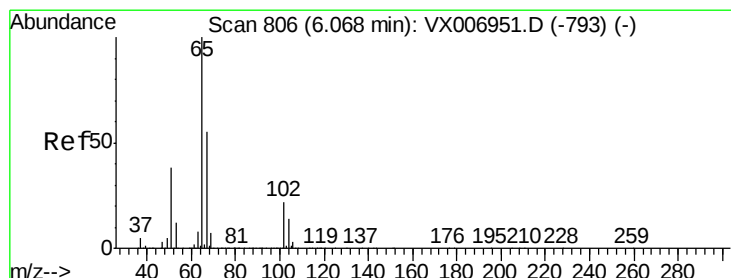
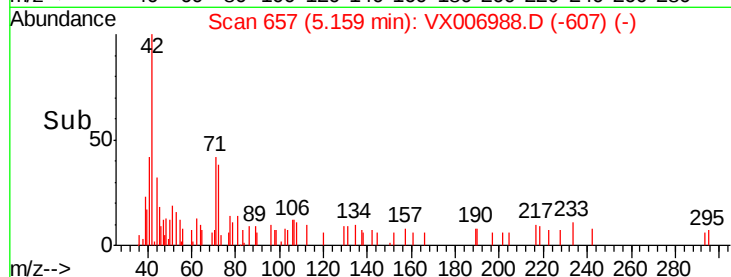
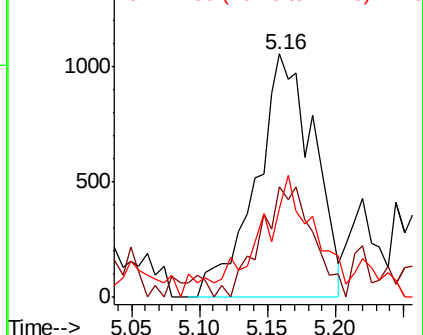
71 46.1 36.2 54.4



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



#33

1,2-Dichloroethane-d4

Concen: 50.879 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX006988.D

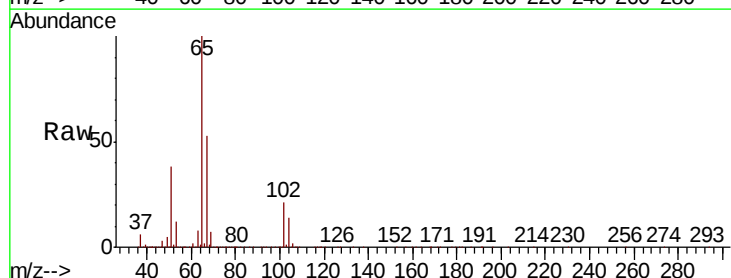
Acq: 10 Jan 2019 14:27

Tgt Ion: 65 Resp: 326774

Ion Ratio Lower Upper

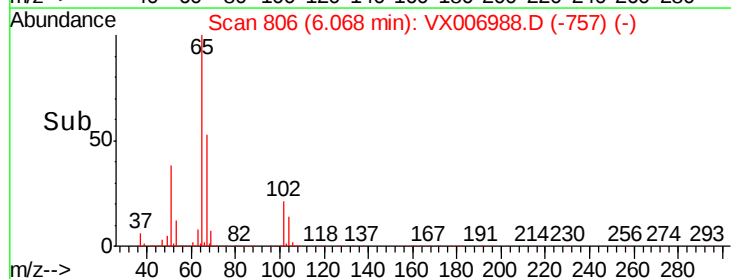
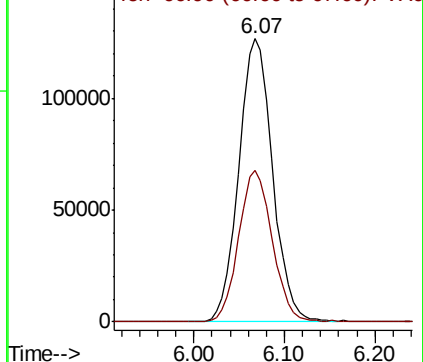
65 100

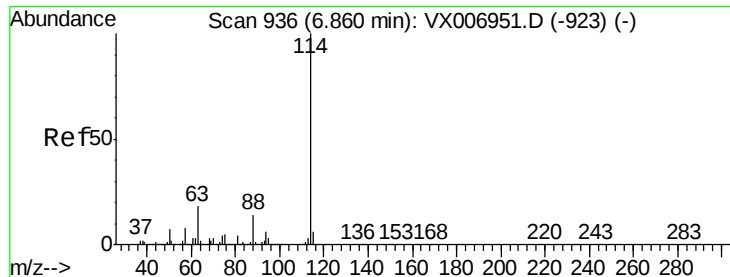
67 52.9 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

PB116275TB

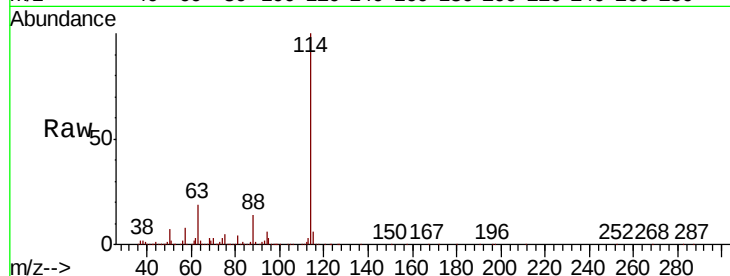
Tgt Ion:114 Resp: 947517

Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.8

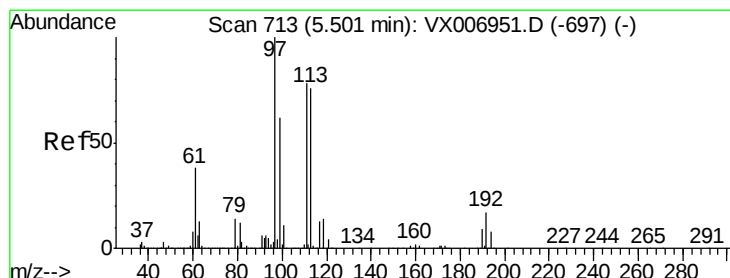
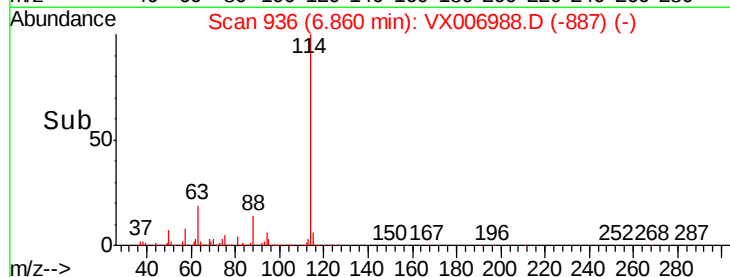
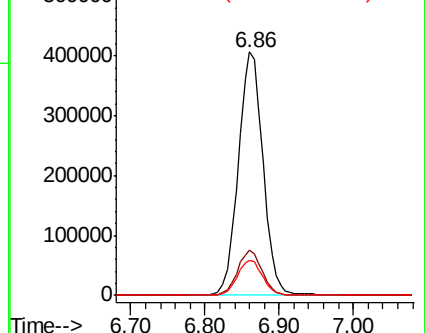
88 14.4 0.0 28.8



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: 48.555 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

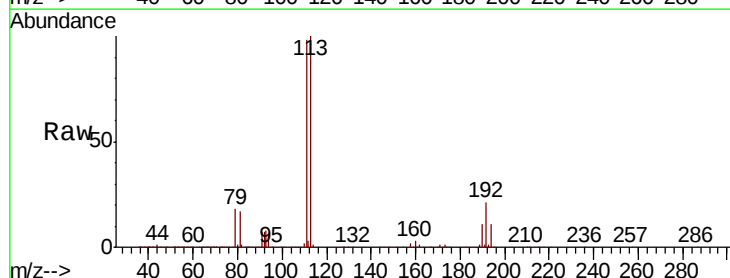
Tgt Ion:113 Resp: 294624

Ion Ratio Lower Upper

113 100

111 100.6 81.6 122.4

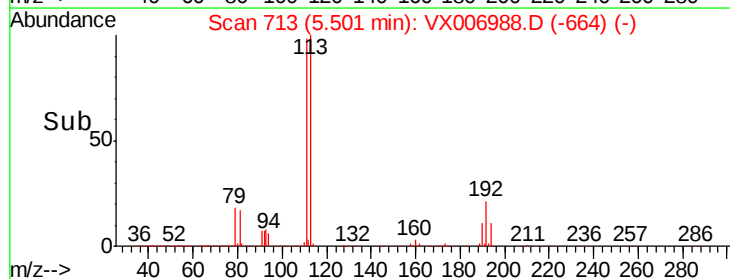
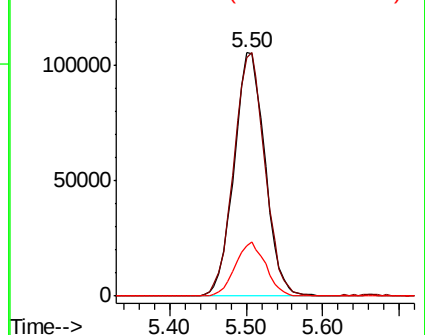
192 21.9 16.7 25.1

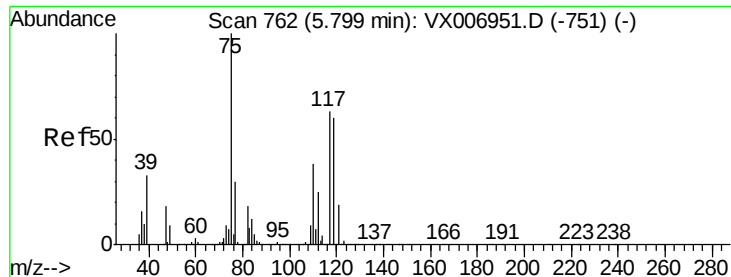


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.713 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

PB116275TB

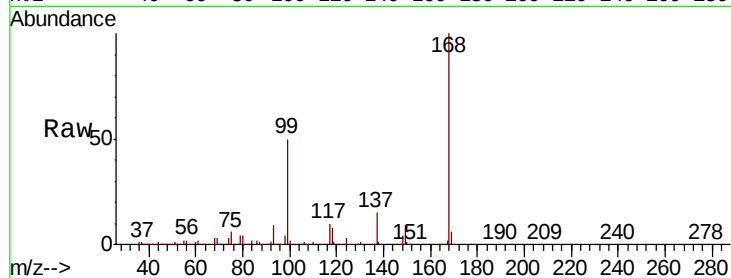
Tgt Ion: 75 Resp: 38829

Ion Ratio Lower Upper

75 100

110 0.0 20.2 60.5#

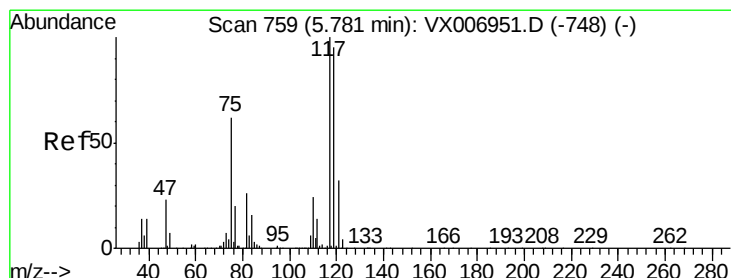
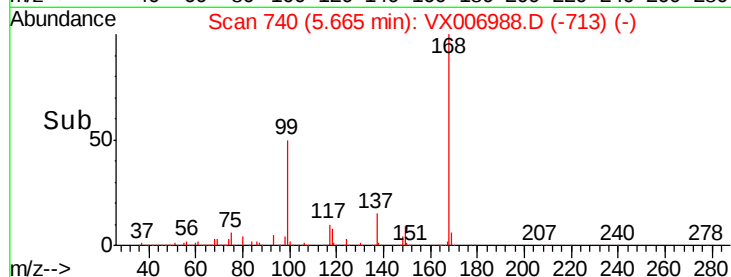
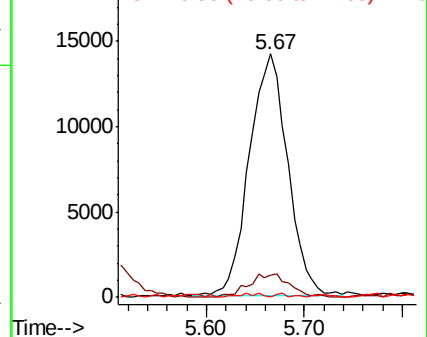
77 0.4 24.8 37.2#



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: 6.849 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

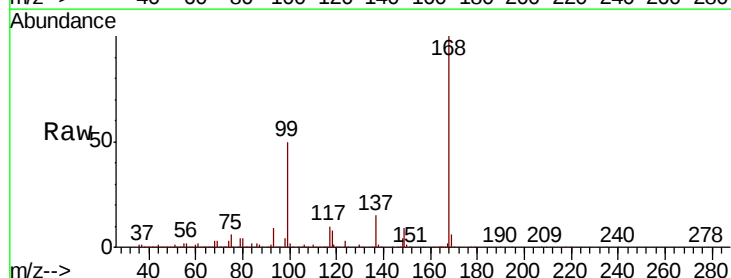
Tgt Ion: 117 Resp: 56769

Ion Ratio Lower Upper

117 100

119 5.2 79.4 119.2#

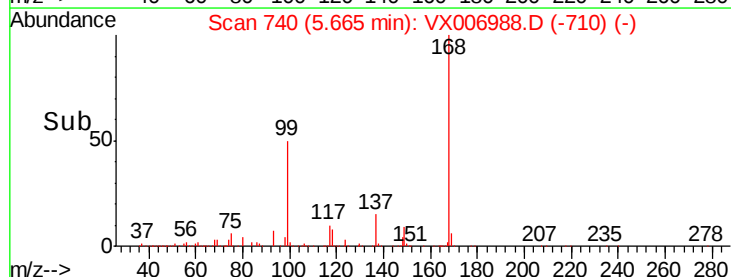
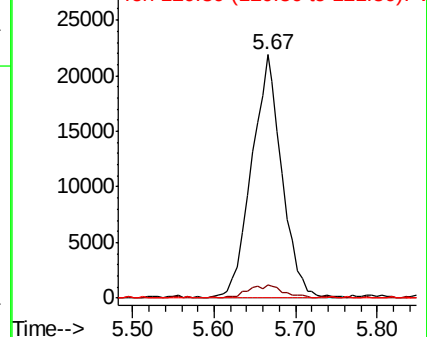
121 0.3 24.0 36.0#

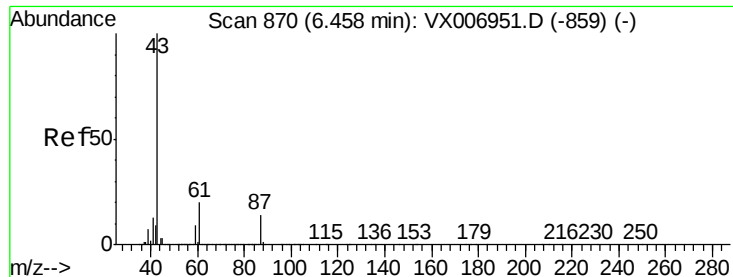


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 2.065 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

PB116275TB

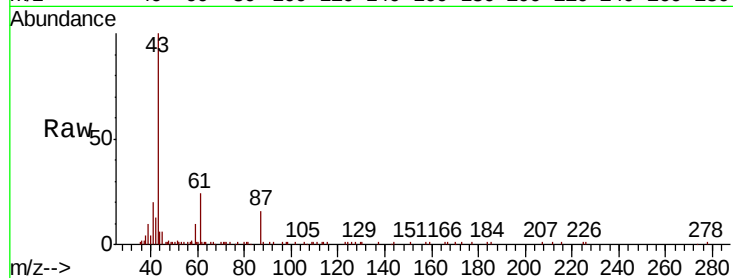
Tgt Ion: 43 Resp: 28769

Ion Ratio Lower Upper

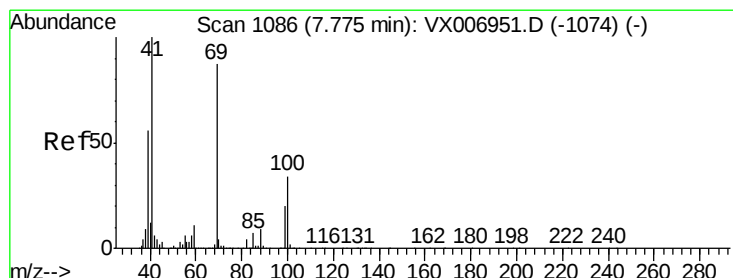
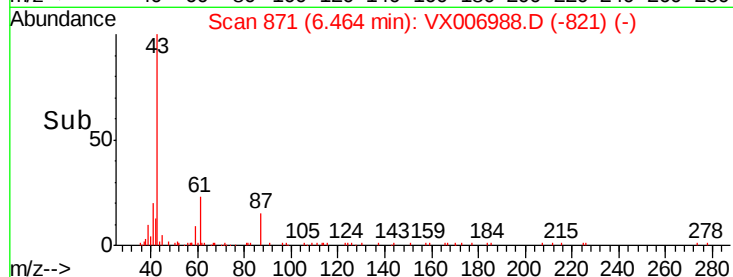
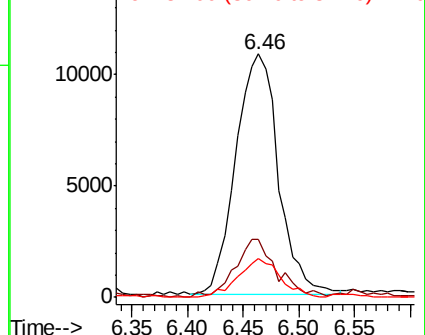
43 100

61 23.6 16.8 25.2

87 15.9 12.4 18.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.917 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

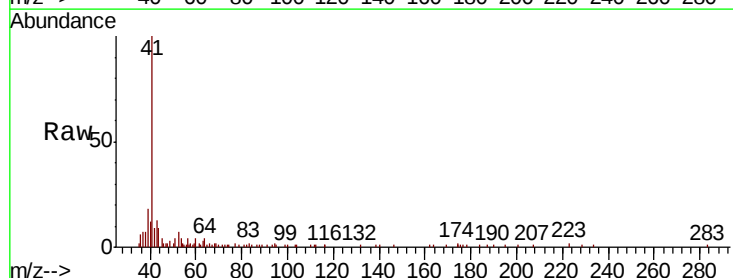
Tgt Ion: 41 Resp: 13715

Ion Ratio Lower Upper

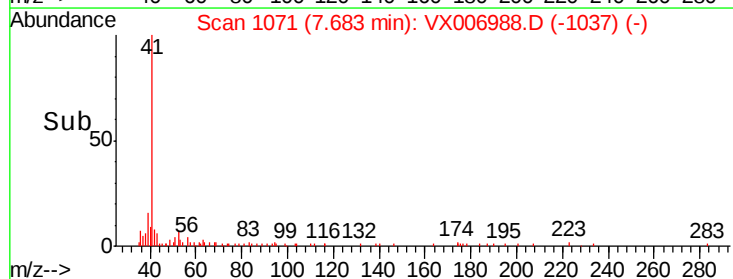
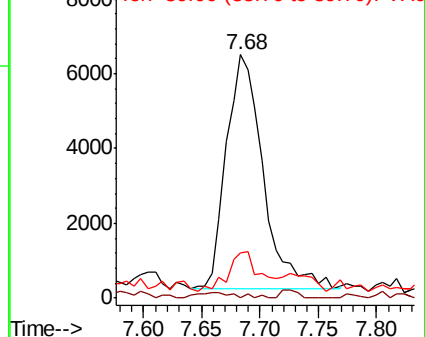
41 100

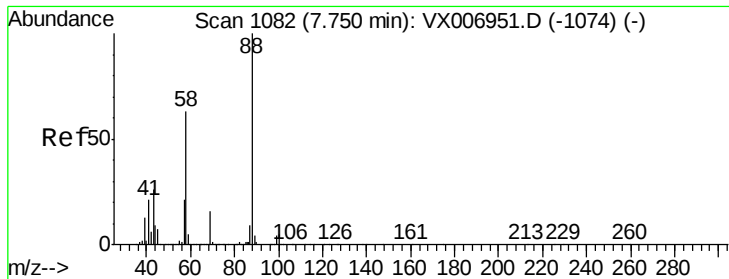
69 0.0 72.4 108.6#

39 0.0 45.8 68.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

Instrument :

MSVOA_X

ClientSampled :

PB116275TB

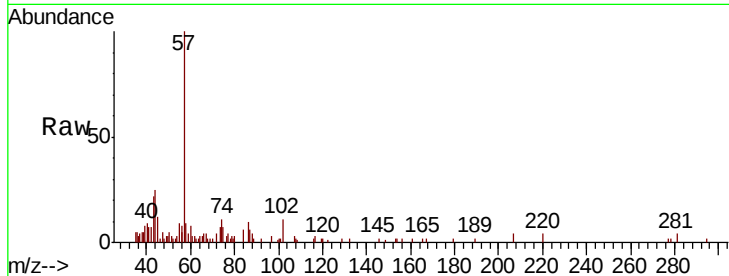
Tgt Ion: 88 Resp: 378

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

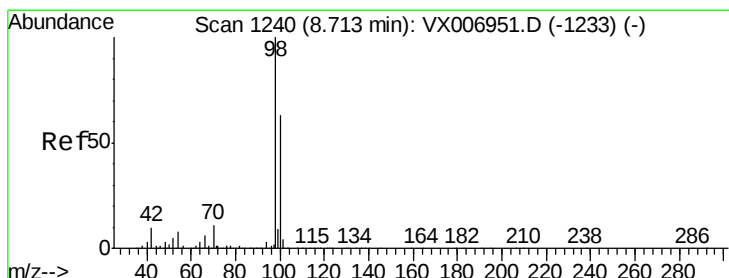
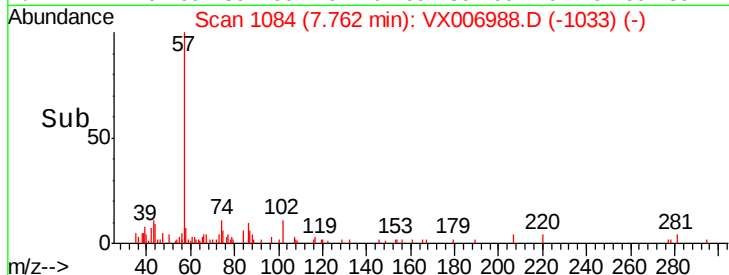
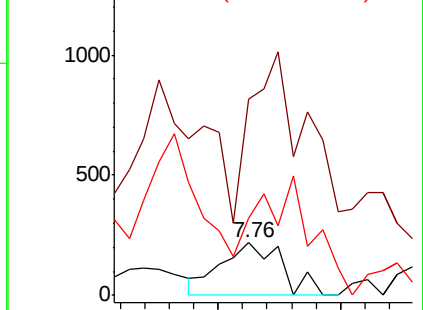
58 205.3 51.0 76.4#



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: 51.529 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006988.D

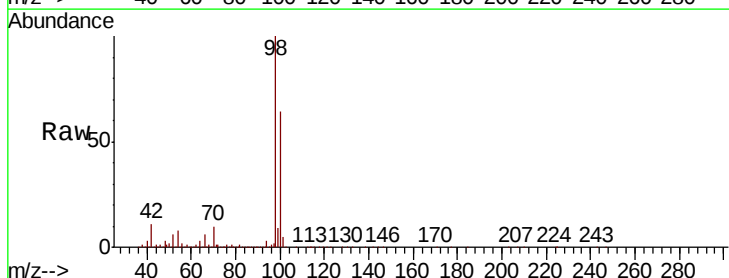
Acq: 10 Jan 2019 14:27

Tgt Ion: 98 Resp: 1144473

Ion Ratio Lower Upper

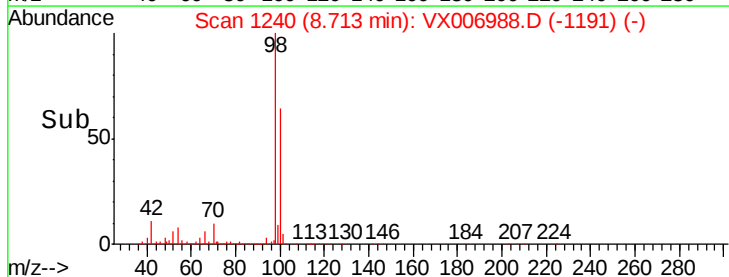
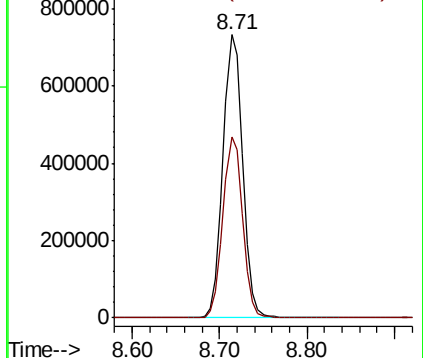
98 100

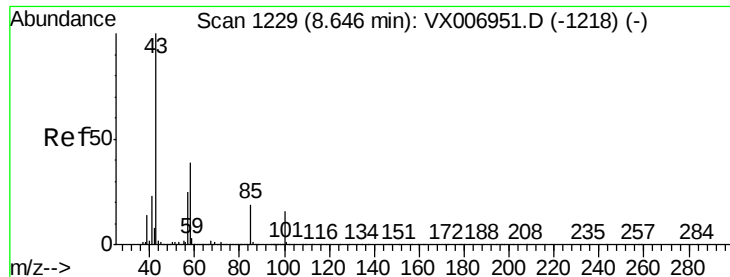
100 63.8 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 16.654 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

Instrument :

MSVOA_X

ClientSampled :

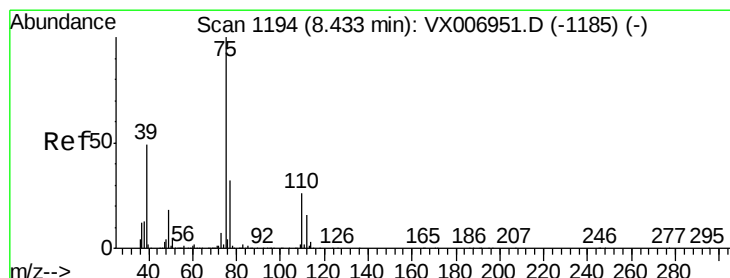
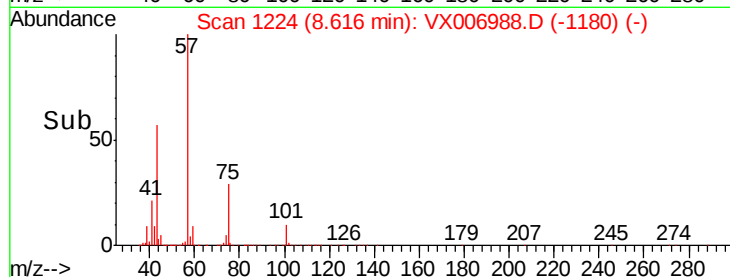
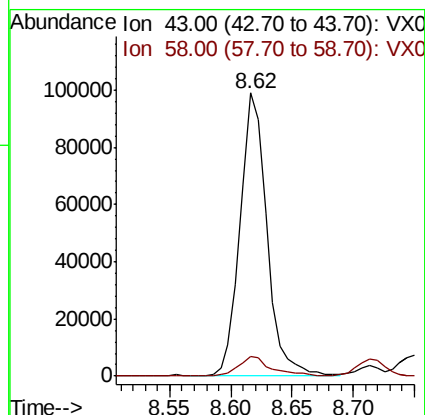
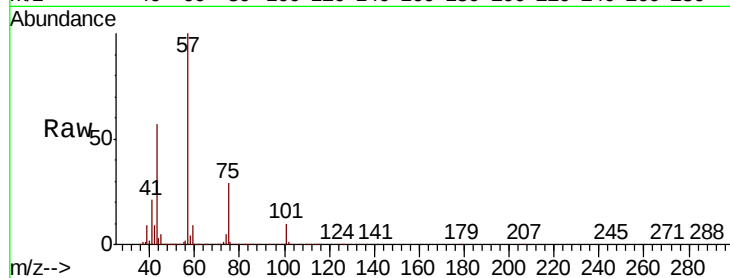
PB116275TB

Tgt Ion: 43 Resp: 149104

Ion Ratio Lower Upper

43 100

58 8.6 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 8.257 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

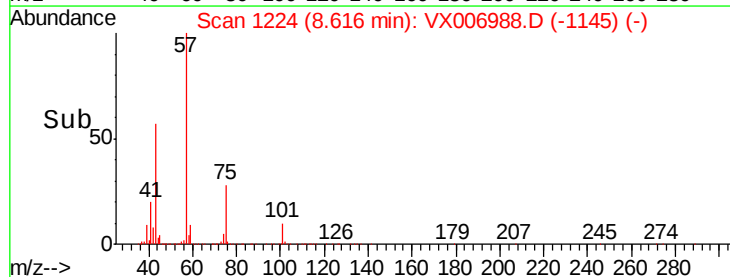
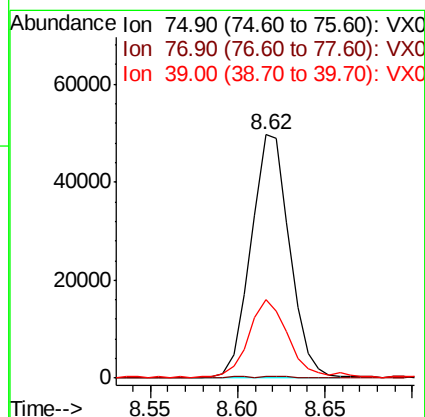
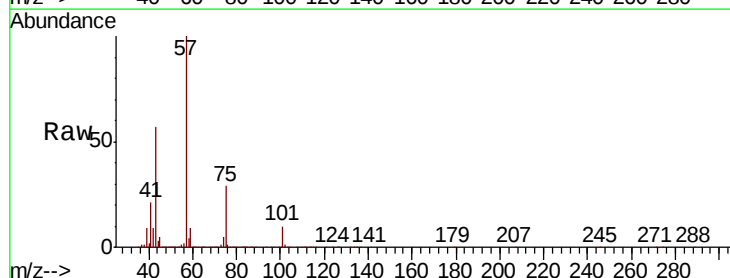
Tgt Ion: 75 Resp: 76442

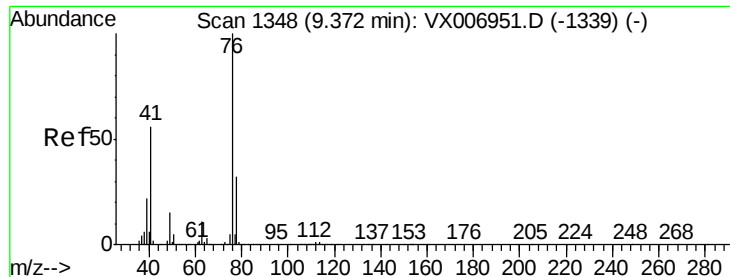
Ion Ratio Lower Upper

75 100

77 0.6 26.2 39.2#

39 31.7 36.7 55.1#





#57

1,3-Dichloropropane

Concen: 1.704 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

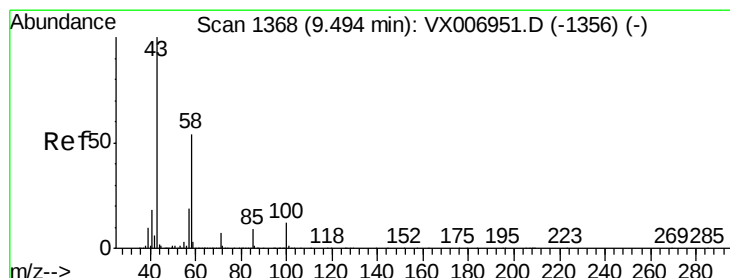
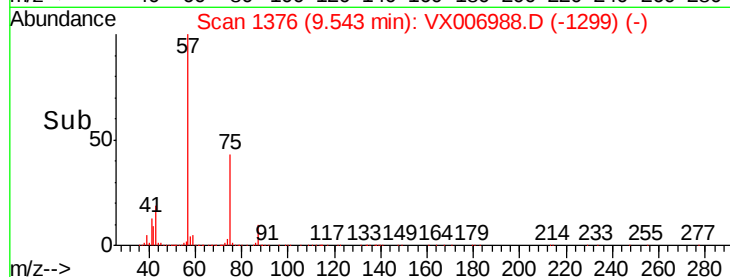
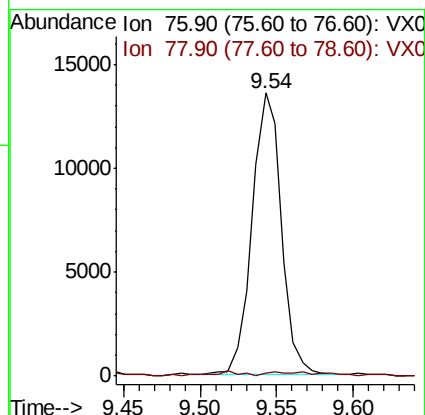
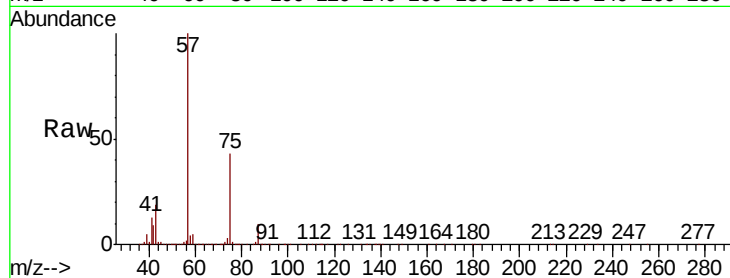
PB116275TB

Tgt Ion: 76 Resp: 18050

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 35.945 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006988.D

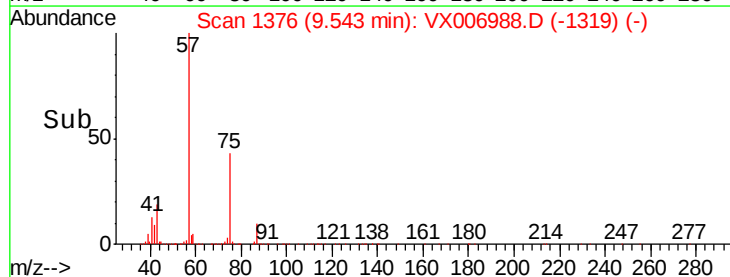
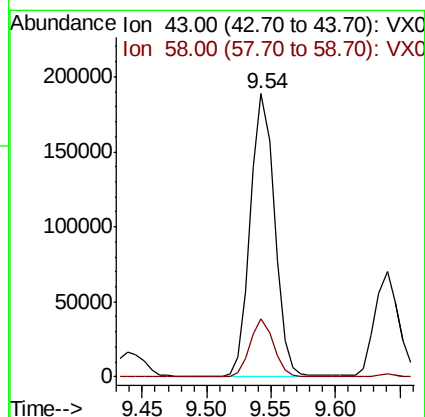
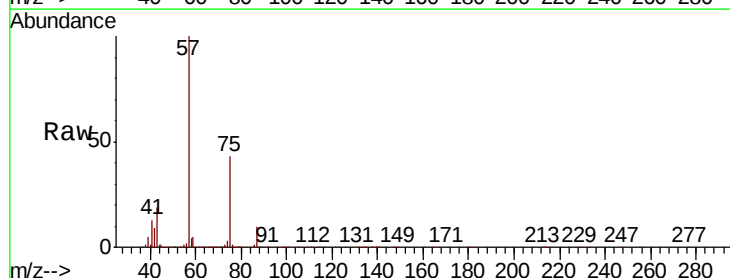
Acq: 10 Jan 2019 14:27

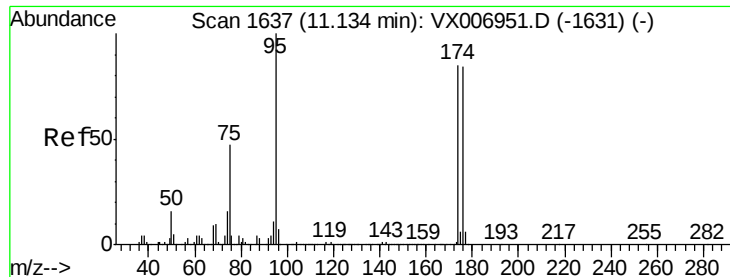
Tgt Ion: 43 Resp: 245239

Ion Ratio Lower Upper

43 100

58 19.7 27.7 83.1#

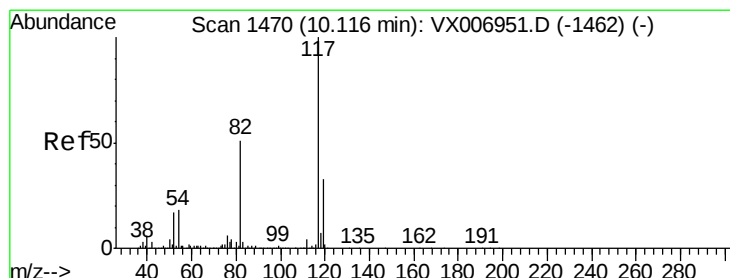
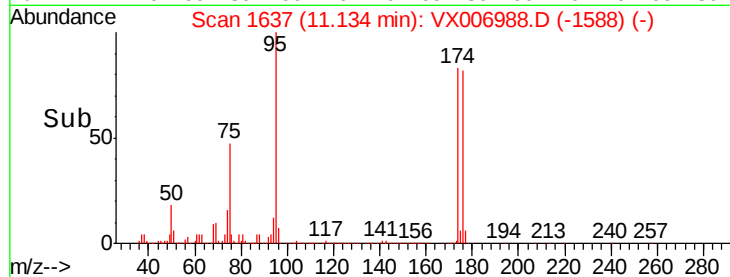
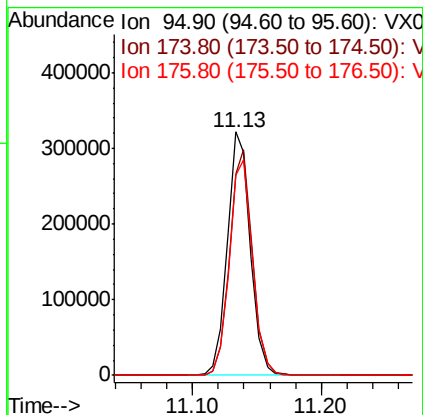
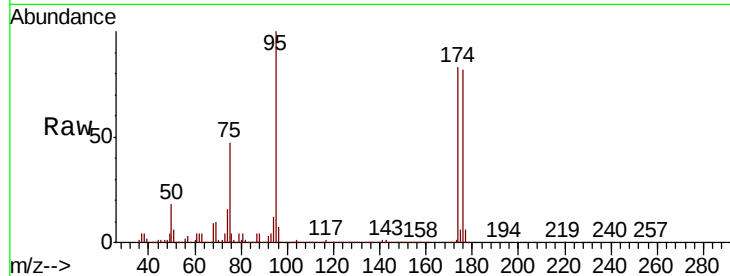




#62
4-Bromofluorobenzene
Concen: 52.125 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX006988.D
Acq: 10 Jan 2019 14:27

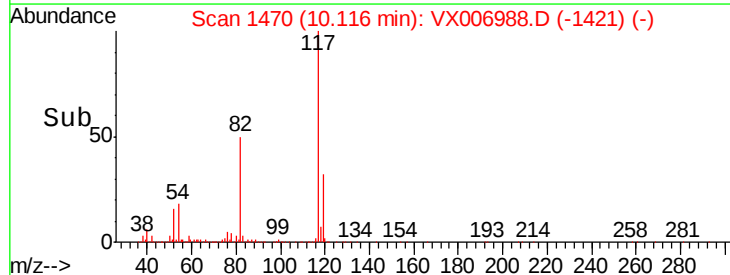
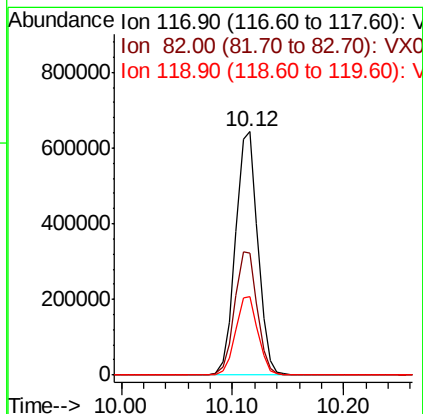
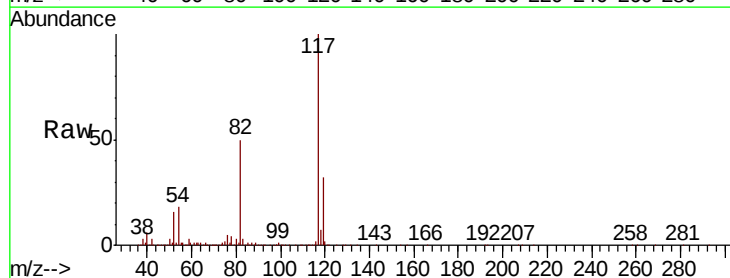
Instrument :
MSVOA_X
ClientSampleId :
PB116275TB

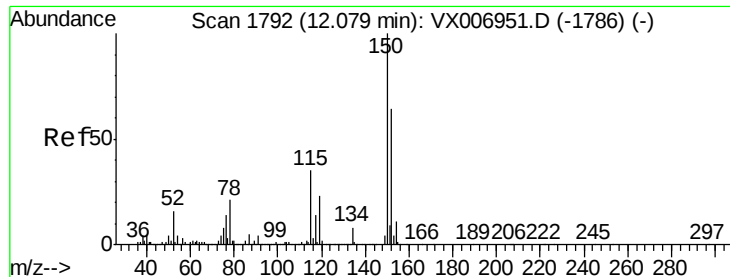
Tgt Ion: 95 Resp: 403601
Ion Ratio Lower Upper
95 100
174 91.4 0.0 182.2
176 89.0 0.0 178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX006988.D
Acq: 10 Jan 2019 14:27

Tgt Ion: 117 Resp: 890075
Ion Ratio Lower Upper
117 100
82 50.0 41.0 61.6
119 32.4 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

PB116275TB

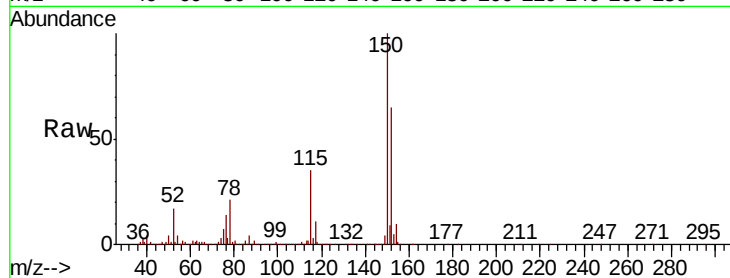
Tgt Ion:152 Resp: 423702

Ion Ratio Lower Upper

152 100

115 55.0 39.1 117.2

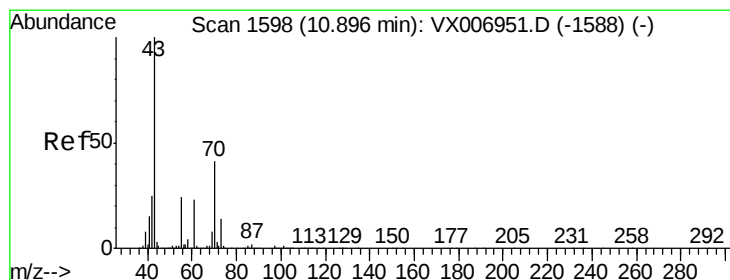
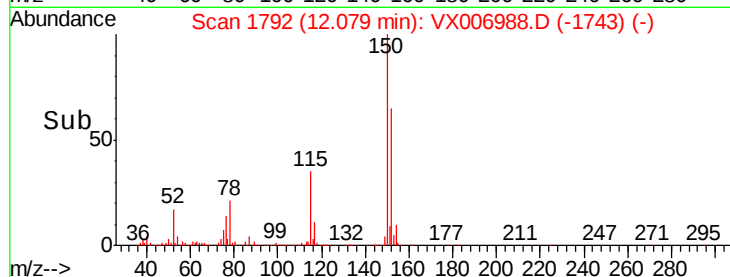
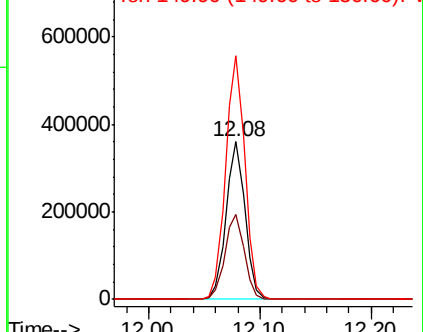
150 156.9 0.0 344.8



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-ethyl acetate

Concen: 2.056 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

Tgt Ion: 43 Resp: 24735

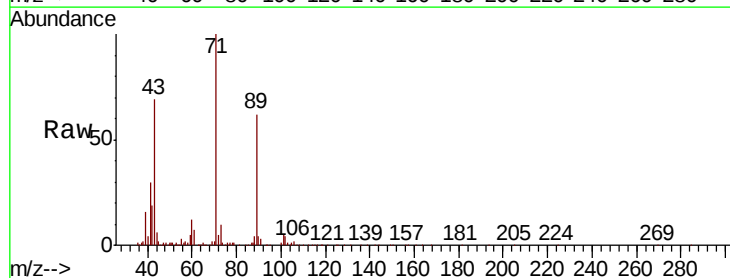
Ion Ratio Lower Upper

43 100

70 2.6 35.8 53.8#

55 5.3 19.4 29.0#

61 13.4 20.1 30.1#

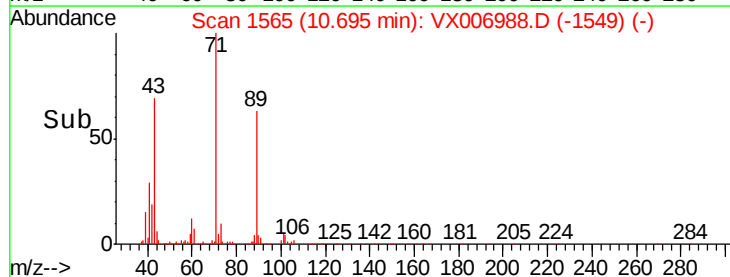
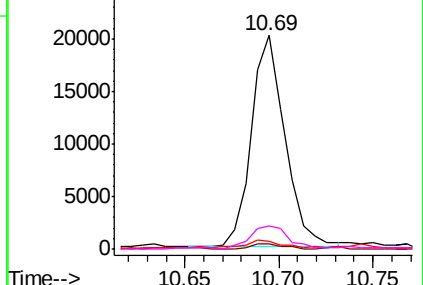


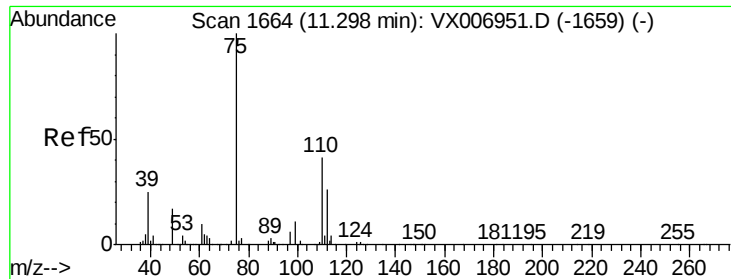
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.085 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

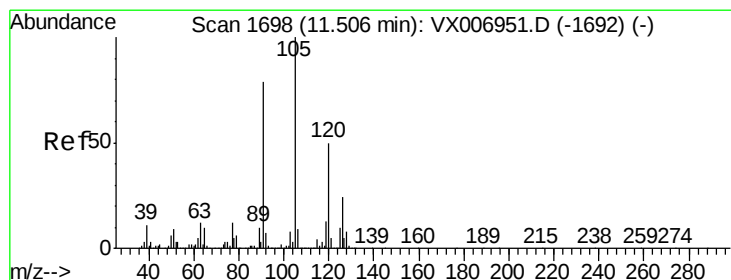
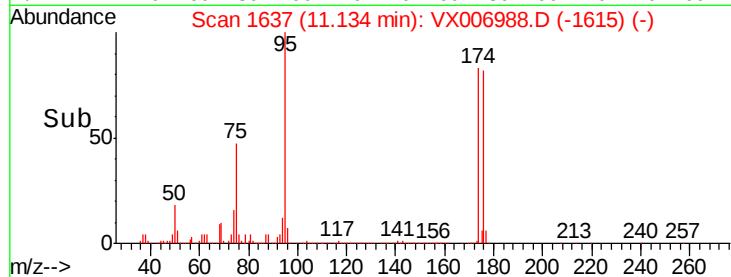
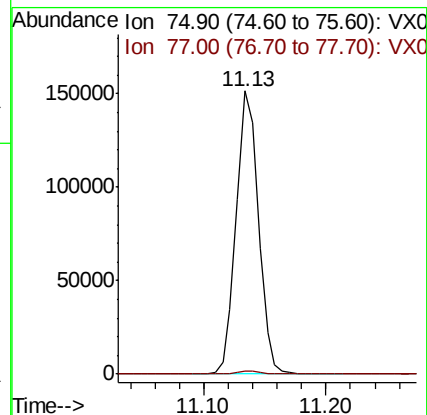
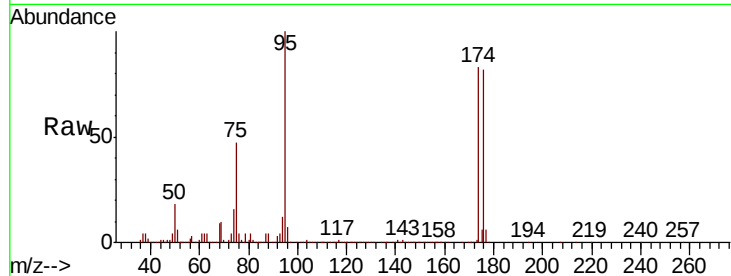
PB116275TB

Tgt Ion: 75 Resp: 189623

Ion Ratio Lower Upper

75 100

77 1.3 18.5 55.5#



#80

1,3,5-Trimethylbenzene

Concen: 0.680 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX006988.D

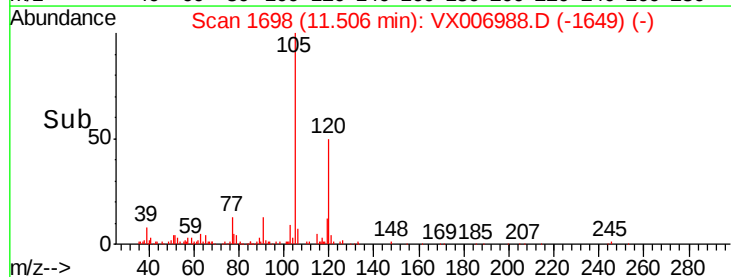
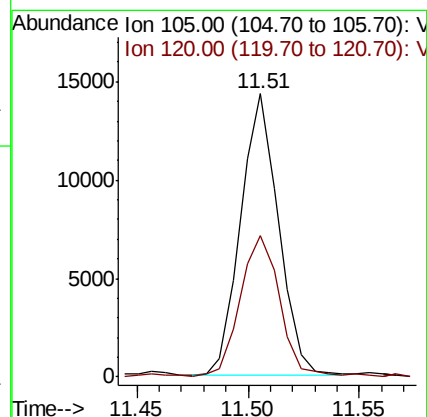
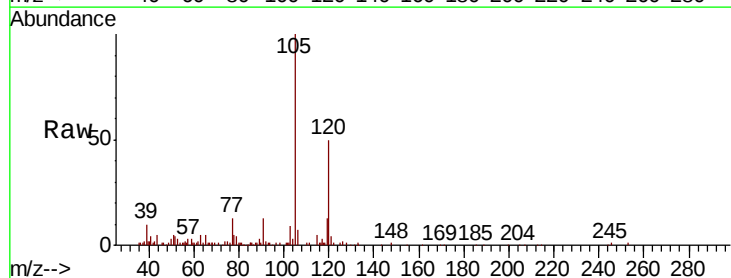
Acq: 10 Jan 2019 14:27

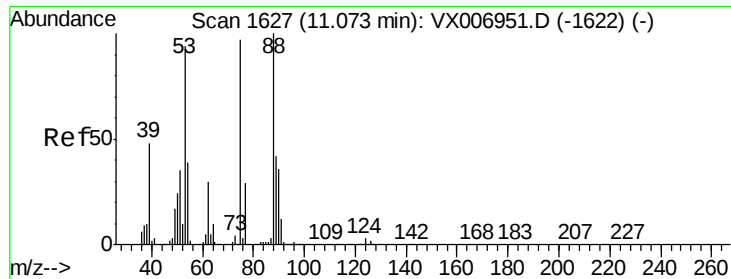
Tgt Ion: 105 Resp: 16966

Ion Ratio Lower Upper

105 100

120 53.0 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 65.389 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

PB116275TB

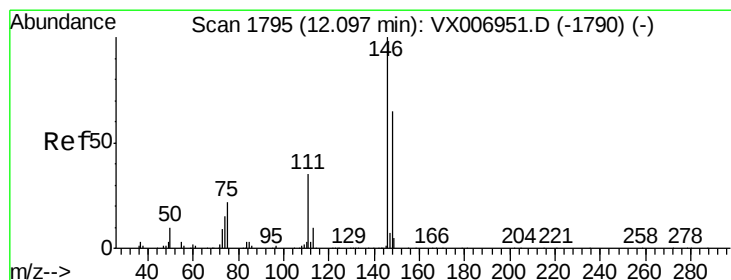
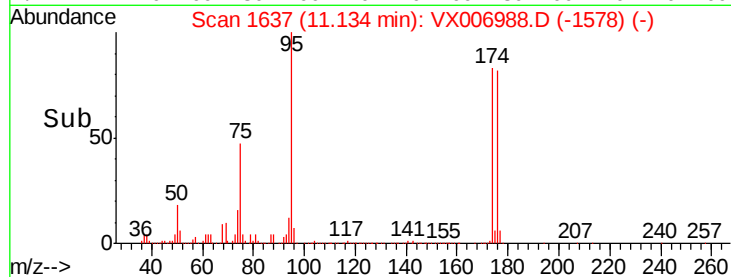
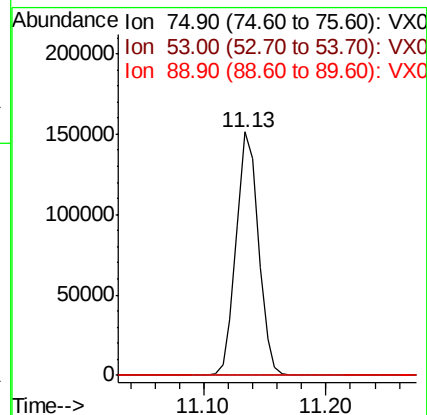
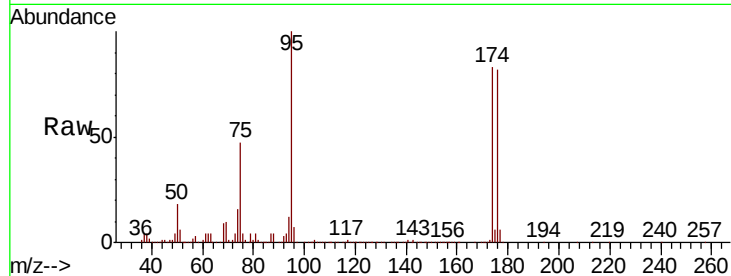
Tgt Ion: 75 Resp: 189623

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

89 0.0 38.0 57.0#



#88

1,4-Dichlorobenzene

Concen: 0.208 ug/l

RT: 12.03 min Scan# 1784

Delta R.T. -0.07 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

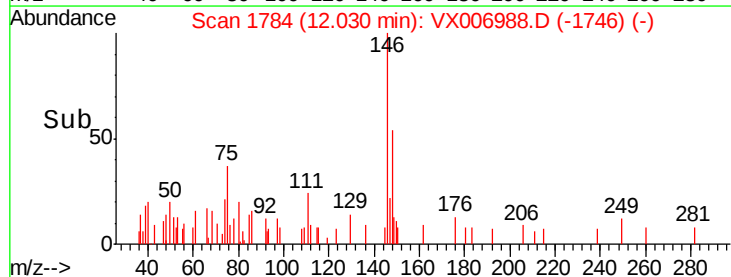
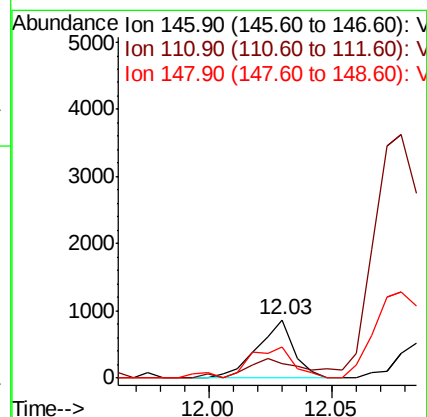
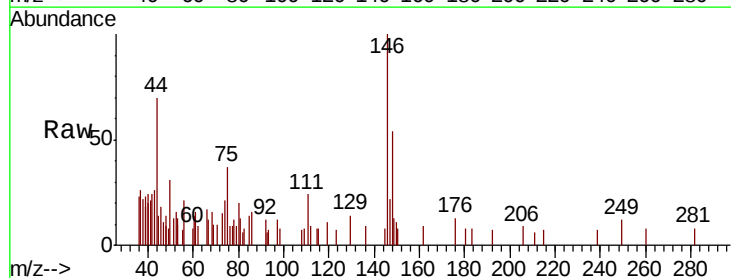
Tgt Ion: 146 Resp: 891

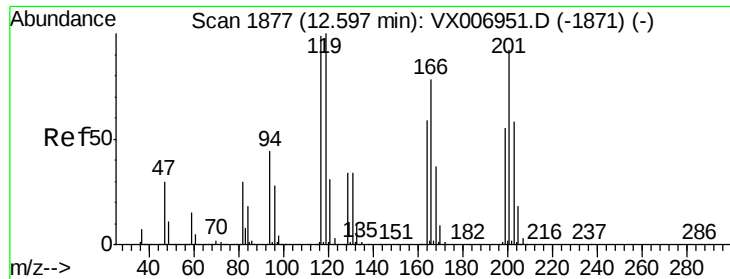
Ion Ratio Lower Upper

146 100

111 46.2 18.1 54.1

148 68.4 31.9 95.9





#90

Hexachloroethane

Concen: 2.943 ug/l

RT: 12.49 min Scan# 1860

Delta R.T. -0.10 min

Lab File: VX006988.D

Acq: 10 Jan 2019 14:27

Instrument :

MSVOA_X

ClientSampleId :

PB116275TB

Tgt Ion:117 Resp: 157

Ion Ratio Lower Upper

117 100

201 57.3 42.9 128.7

