

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012419\
 Data File : VX007210.D
 Acq On : 24 Jan 2019 18:09
 Operator : JC/SP
 Sample : PB116589ZHE#02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB116589ZHE#02

Quant Time: Jan 25 00:05:40 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	518964	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	808991	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	777373	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	370255	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	282728	52.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.26%	
35) Dibromofluoromethane	5.51	113	254516	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
50) Toluene-d8	8.71	98	991624	52.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.58%	
62) 4-Bromofluorobenzene	11.13	95	345954	52.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.66%	

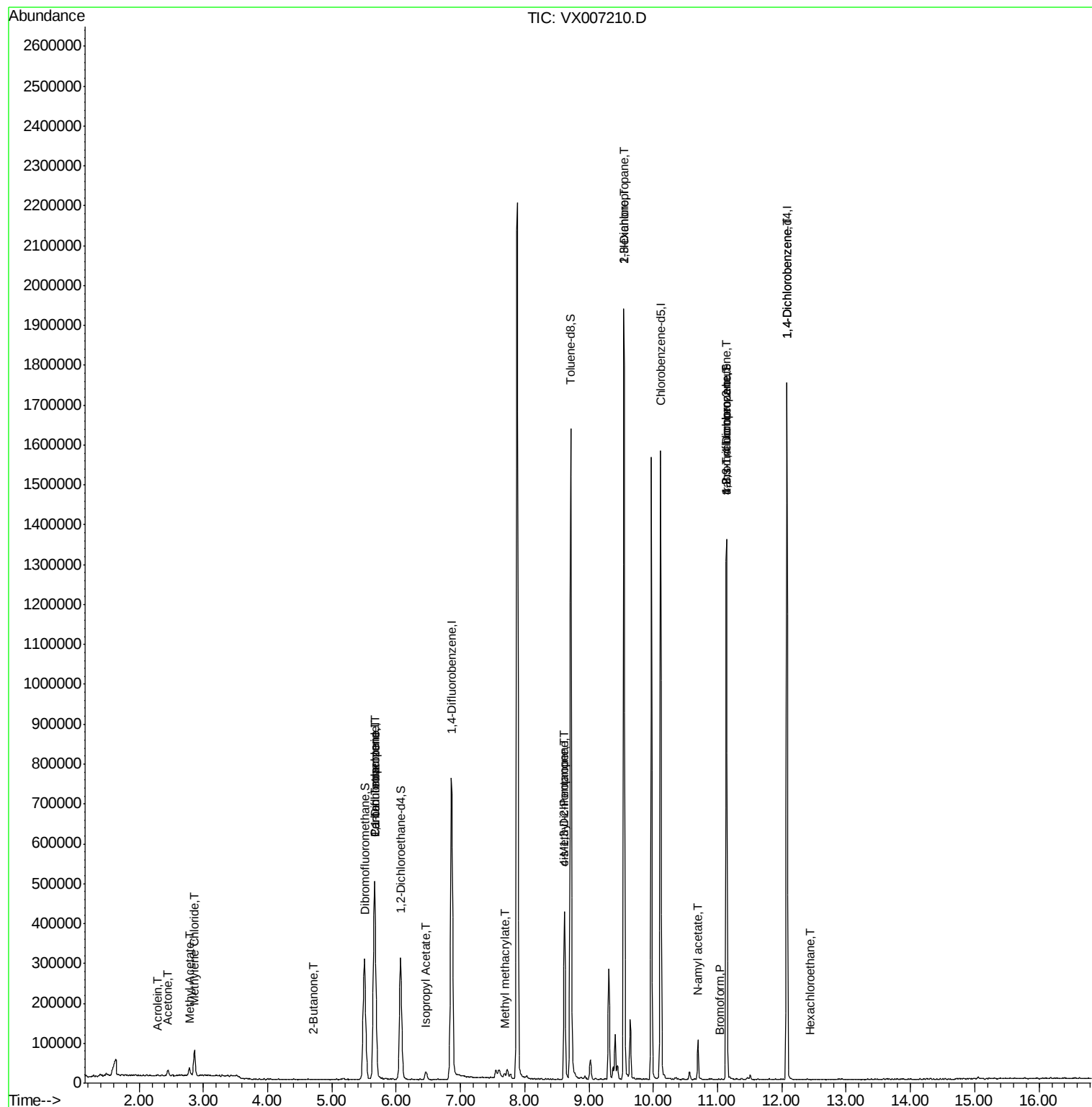
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.28	56	722	4.376	ug/l #	69
16) Acetone	2.45	43	17492	6.524	ug/l #	88
18) Methyl Acetate	2.78	43	24027	3.094	ug/l	96
20) Methylene Chloride	2.86	84	30638	5.504	ug/l	95
25) 2-Butanone	4.71	43	2287	0.596	ug/l	93
36) 1,1-Dichloropropene	5.67	75	33024	4.695	ug/l #	39
38) Carbon Tetrachloride	5.67	117	47328	6.688	ug/l #	14
43) Isopropyl Acetate	6.46	43	28370	2.385	ug/l	99
48) Methyl methacrylate	7.69	41	13884	2.273	ug/l #	12
49) 1,4-Dioxane	7.74	88	361	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	137872	18.037	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	69998	8.856	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	16986	1.878	ug/l #	44
59) 2-Hexanone	9.54	43	222022	38.115	ug/l #	51
71) Bromoform	11.05	173	127	4.750	ug/l #	28
74) N-amyl acetate	10.69	43	22006	2.093	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	167613	22.339	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	167613	66.099	ug/l #	10
88) 1,4-Dichlorobenzene	12.08	146	710	0.202	ug/l #	1
90) Hexachloroethane	12.45	117	73	2.927	ug/l	93

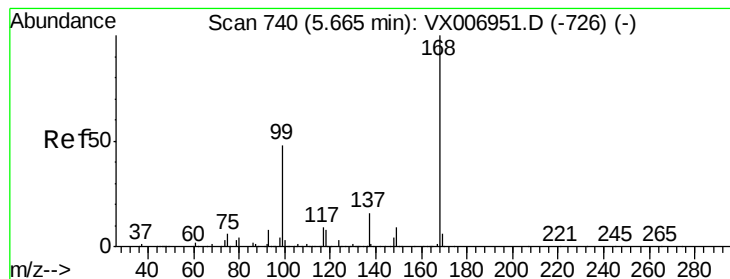
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX007210.D

Acq: 24 Jan 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

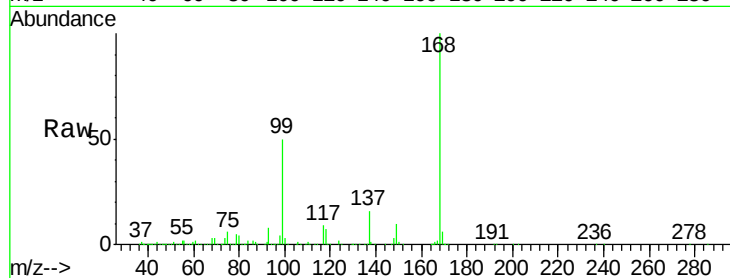
PB116589ZHE#02

Tot Ion:168 Resp: 518964

Ion Ratio Lower Upper

168 100

99 50.3 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

200000

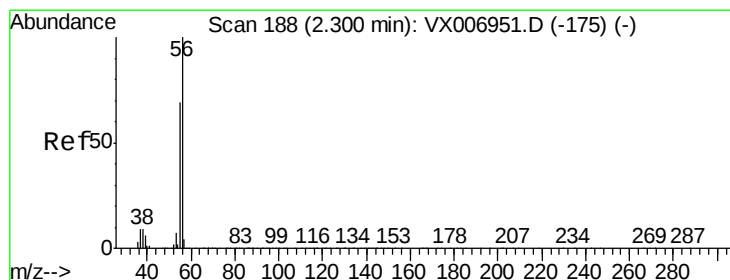
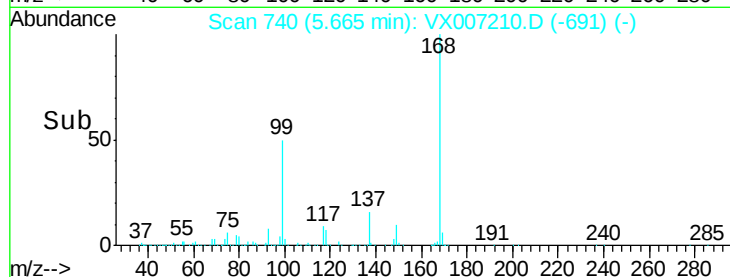
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#13

Acrolein

Concen: 4.376 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.02 min

Lab File: VX007210.D

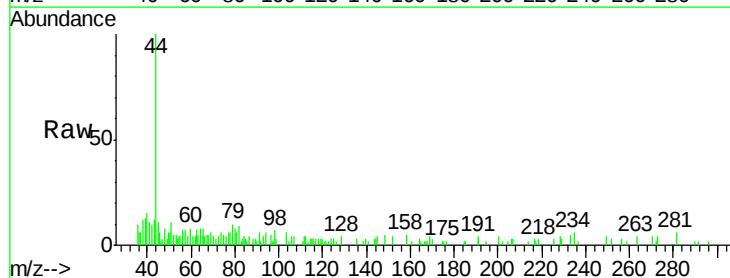
Acq: 24 Jan 2019 18:09

Tgt Ion: 56 Resp: 722

Ion Ratio Lower Upper

56 100

55 47.2 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

500

400

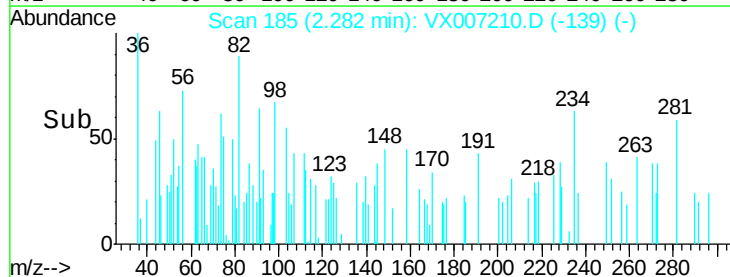
300

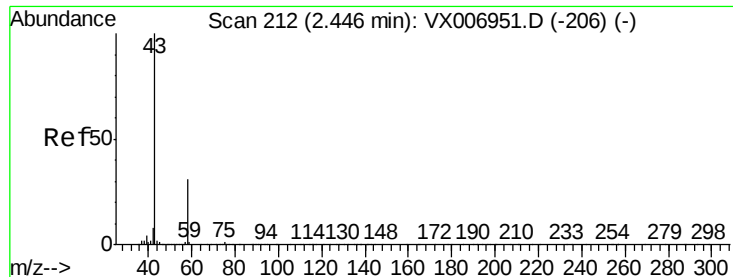
200

100

0

Time--> 2.25 2.30





#16

Acetone

Concen: 6.524 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

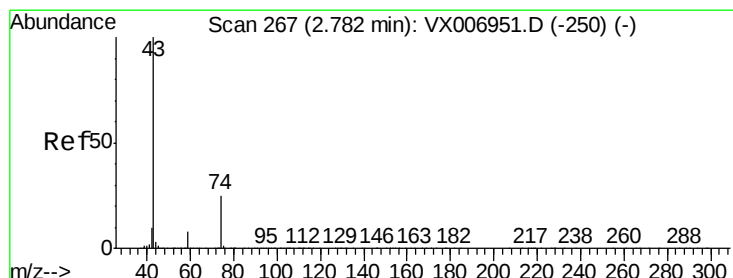
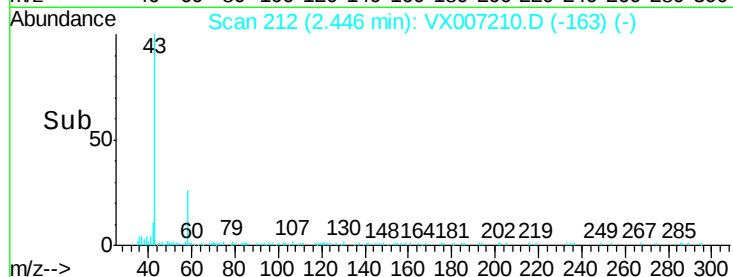
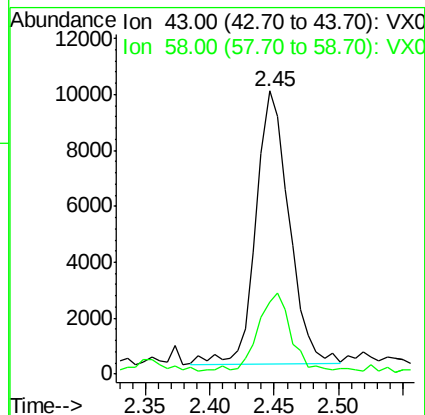
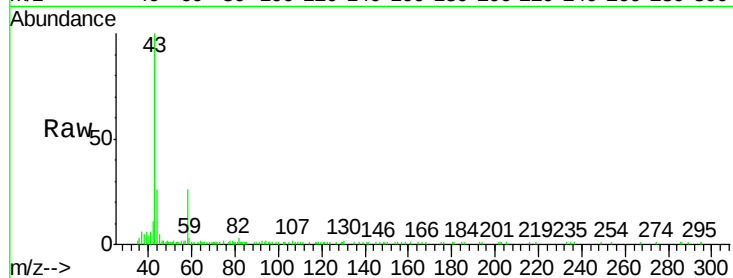
PB116589ZHE#02

Tot Ion: 43 Resp: 17492

Ion Ratio Lower Upper

43 100

58 24.6 25.0 37.6#



#18

Methyl Acetate

Concen: 3.094 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX007210.D

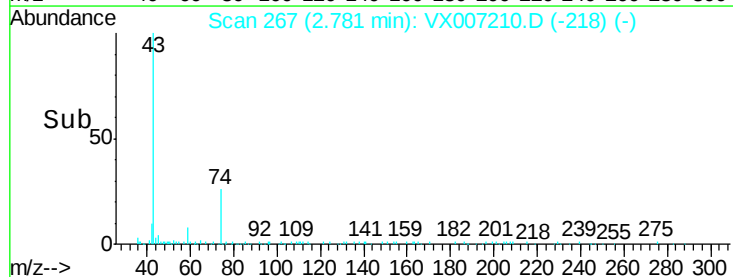
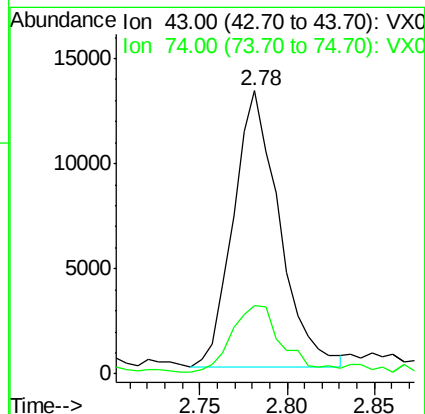
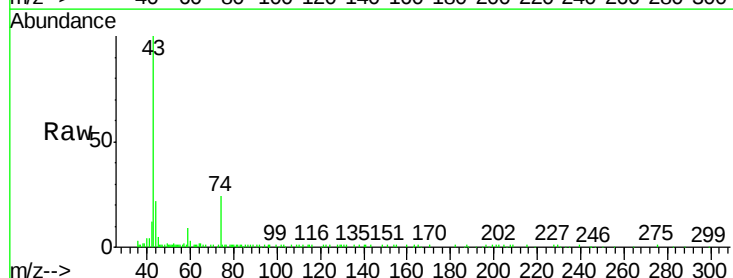
Acq: 24 Jan 2019 18:09

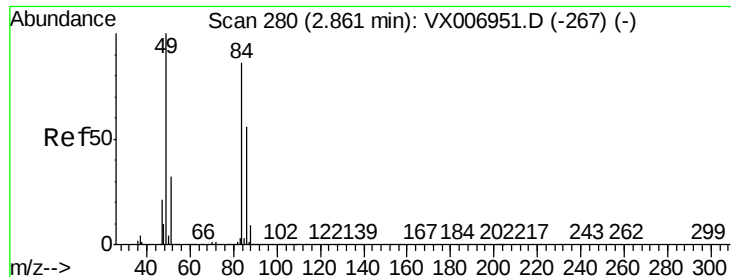
Tgt Ion: 43 Resp: 24027

Ion Ratio Lower Upper

43 100

74 25.1 18.6 28.0

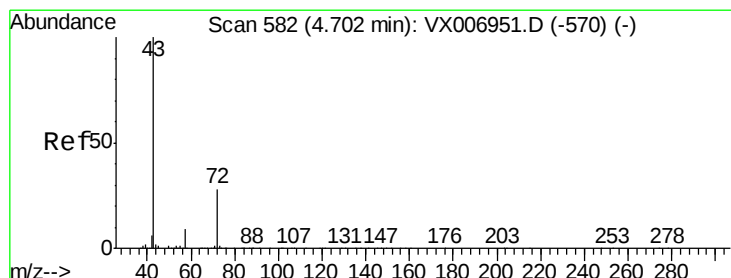
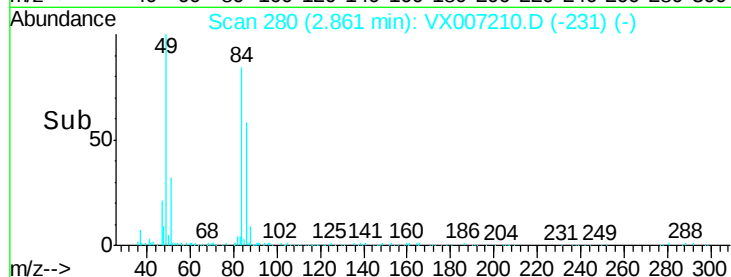
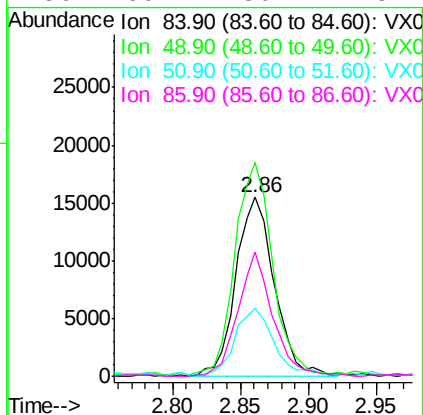
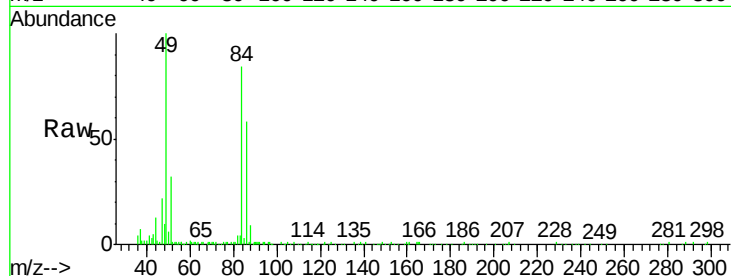




#20
Methylene Chloride
Concen: 5.504 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007210.D
Acq: 24 Jan 2019 18:09

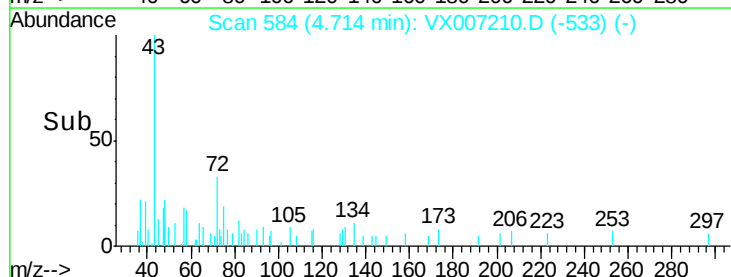
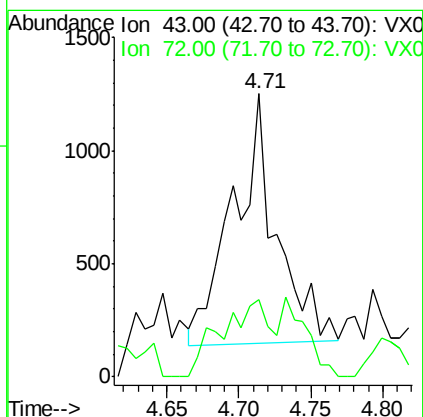
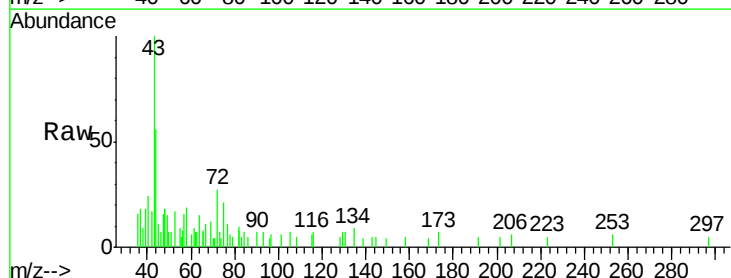
Instrument :
MSVOA_X
ClientSampleId :
PB116589ZHE#02

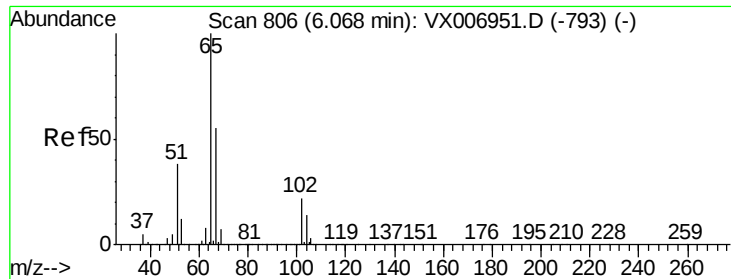
Tot Ion:	84	Resp:	30638
Ion	Ratio	Lower	Upper
84	100		
49	118.4	91.8	137.6
51	36.7	28.5	42.7
86	69.4	50.2	75.2



#25
2-Butanone
Concen: 0.596 ug/l
RT: 4.71 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX007210.D
Acq: 24 Jan 2019 18:09

Tgt Ion:	43	Resp:	2287
Ion	Ratio	Lower	Upper
43	100		
72	31.6	22.4	33.6





#33

1,2-Dichloroethane-d4

Concen: 52.129 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

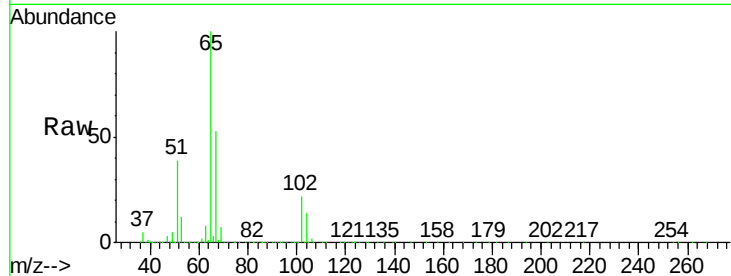
PB116589ZHE#02

Tot Ion: 65 Resp: 282728

Ion Ratio Lower Upper

65 100

67 53.6 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

120000

100000

80000

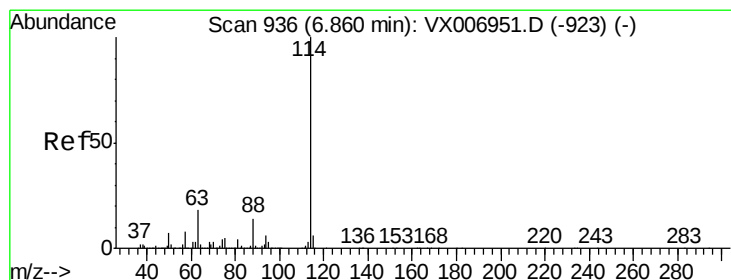
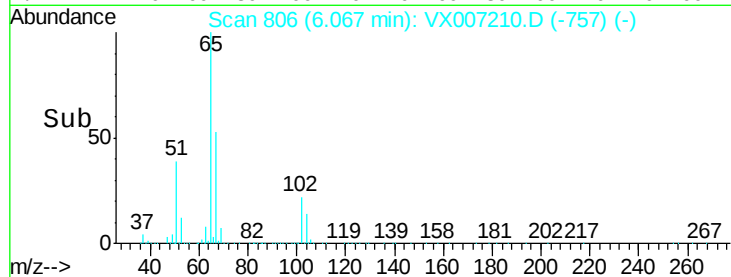
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

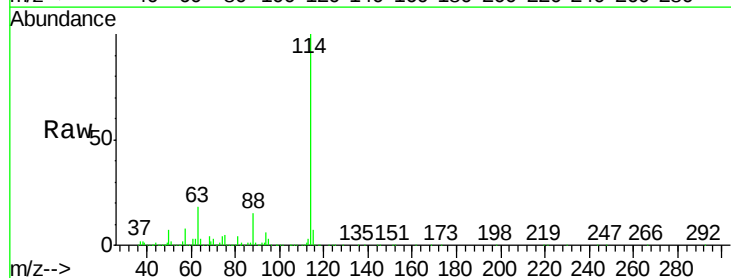
Tgt Ion: 114 Resp: 808991

Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.8

88 15.1 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

6.86

400000

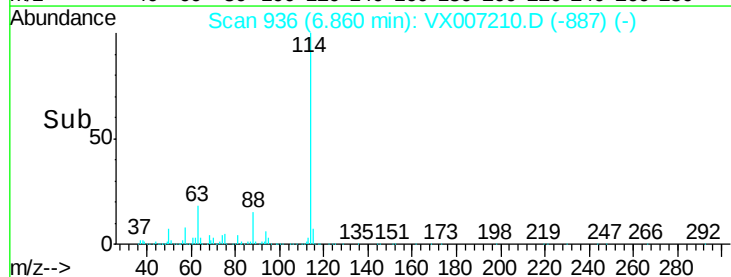
300000

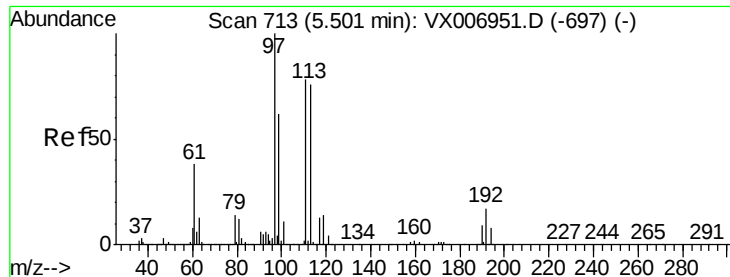
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 49.127 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

PB116589ZHE#02

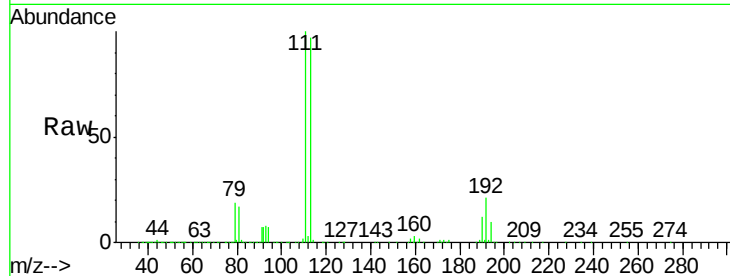
Tot Ion:113 Resp: 254516

Ion Ratio Lower Upper

113 100

111 102.2 81.6 122.4

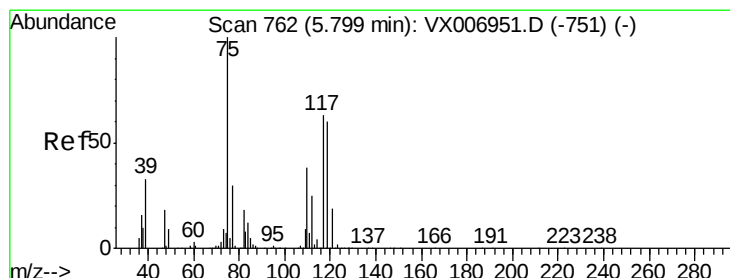
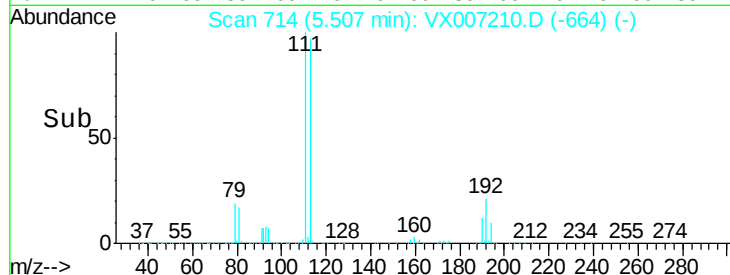
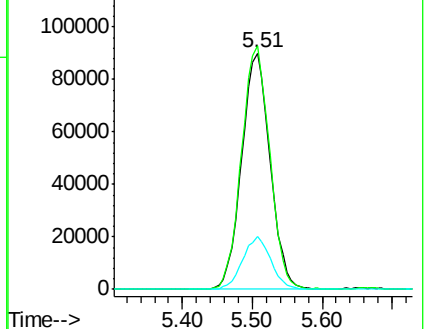
192 22.1 16.7 25.1



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: 4.695 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

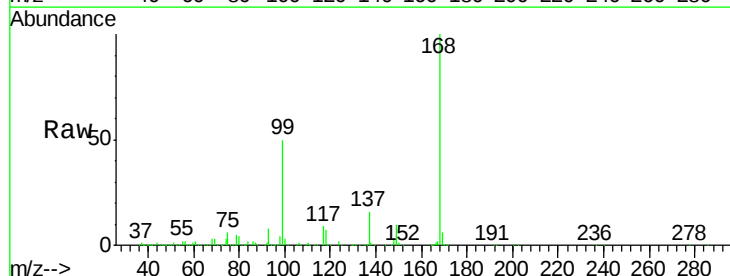
Tgt Ion: 75 Resp: 33024

Ion Ratio Lower Upper

75 100

110 0.0 20.2 60.5#

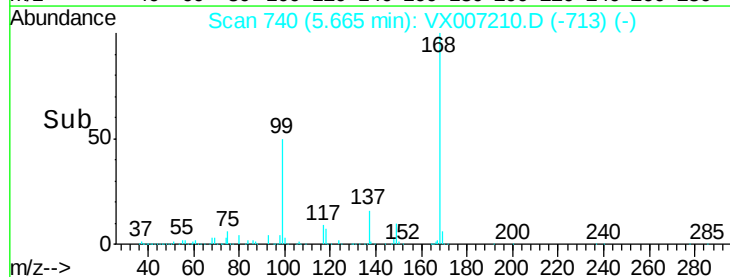
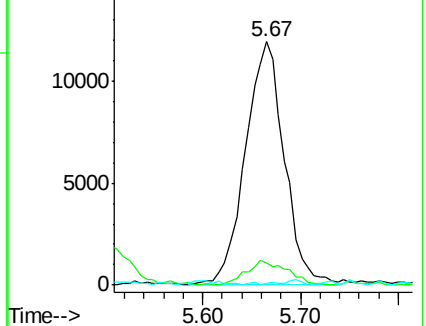
77 0.5 24.8 37.2#

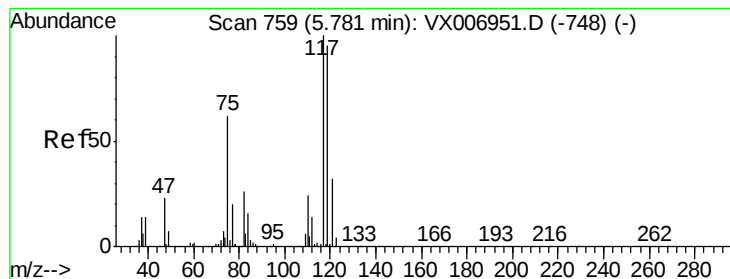


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.688 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

Instrument :

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ClientSampleId :

PB116589ZHE#02

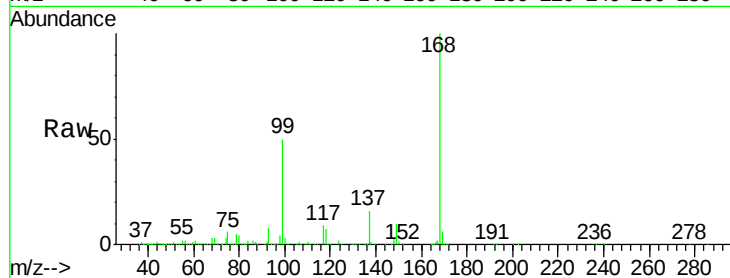
Tot Ion:117 Resp: 47328

Ion Ratio Lower Upper

117 100

119 4.7 79.4 119.2#

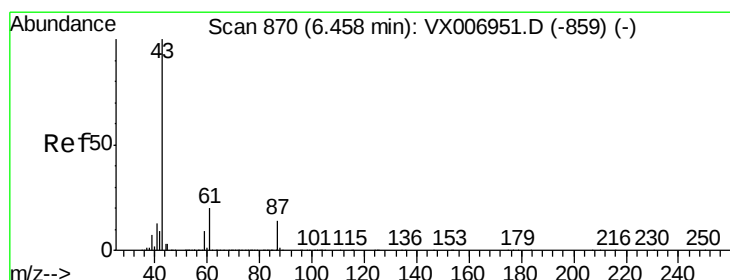
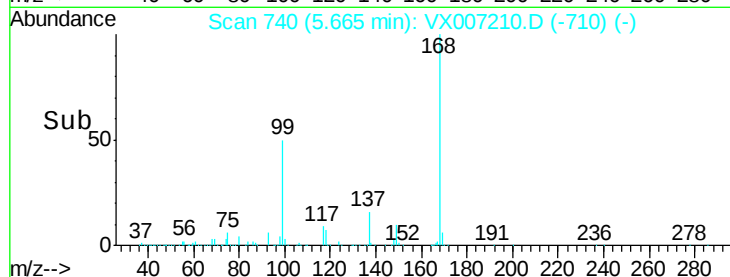
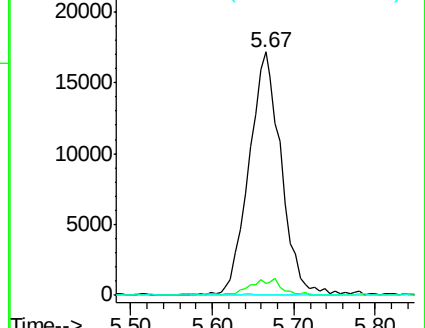
121 0.0 24.0 36.0#



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: 2.385 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.00 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

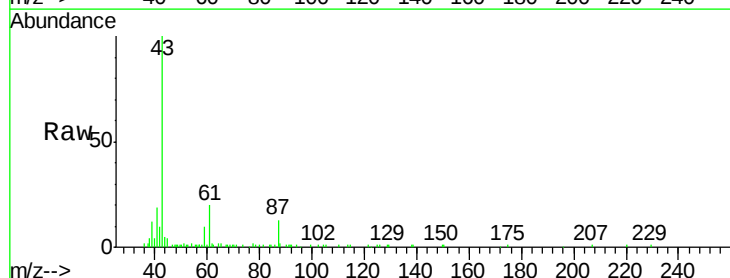
Tgt Ion: 43 Resp: 28370

Ion Ratio Lower Upper

43 100

61 20.4 16.8 25.2

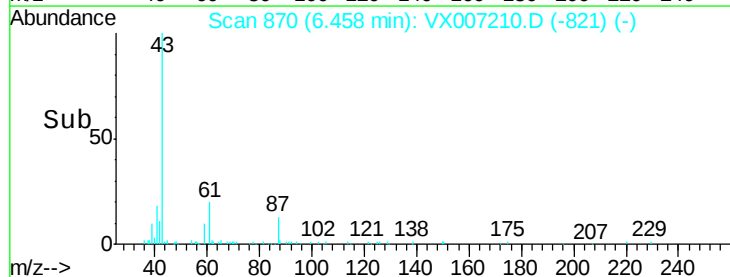
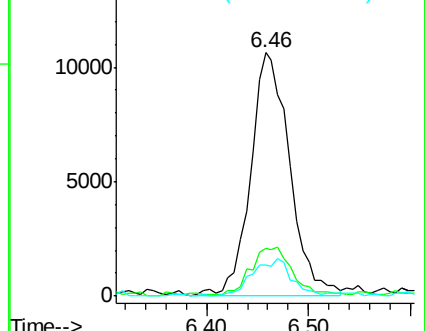
87 15.2 12.4 18.6

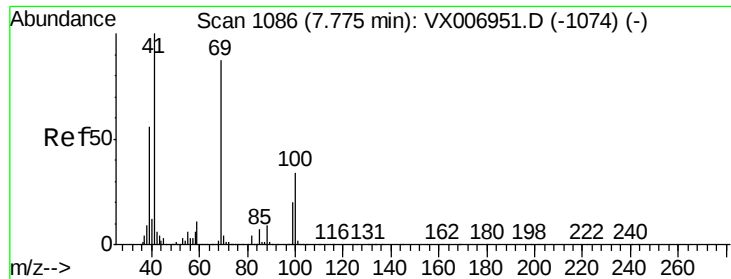


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

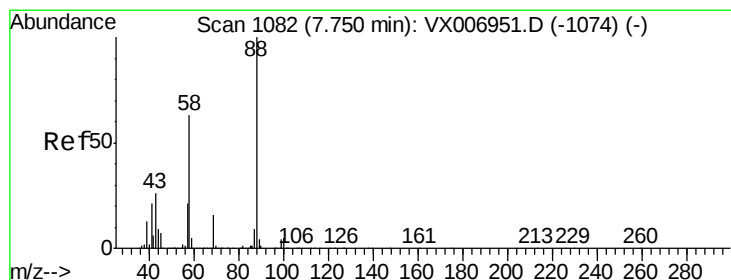
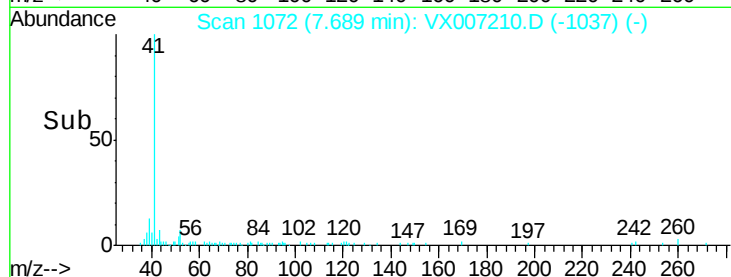
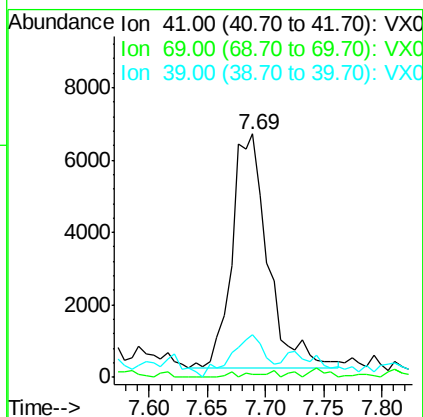
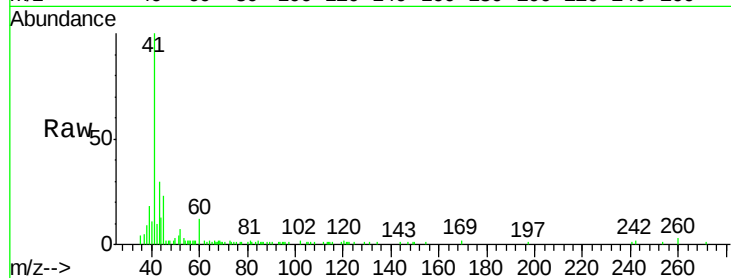




#48
Methvl methacrylate
Concen: 2.273 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX007210.D
Acq: 24 Jan 2019 18:09

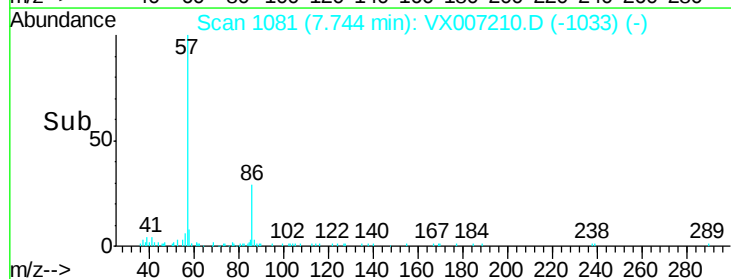
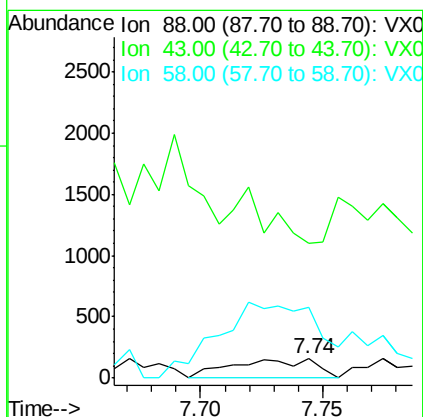
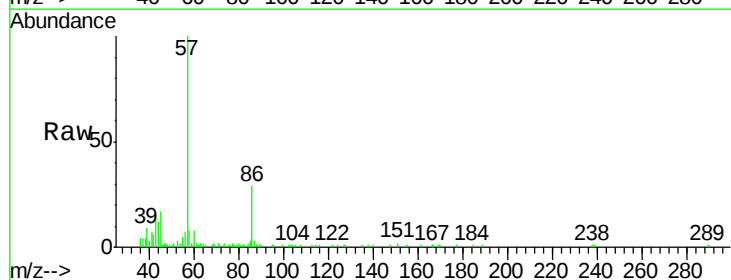
Instrument :
MSVOA_X
ClientSampleId :
PB116589ZHE#02

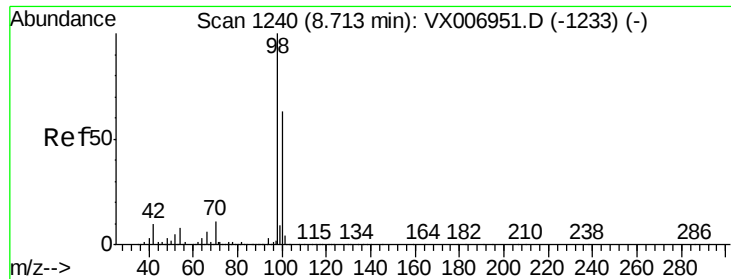
Tot Ion: 41 Resp: 13884
Ion Ratio Lower Upper
41 100
69 1.0 72.4 108.6#
39 0.0 45.8 68.8#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.74 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VX007210.D
Acq: 24 Jan 2019 18:09

Tgt Ion: 88 Resp: 361
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.4#
58 0.0 51.0 76.4#





#50

Toluene-d8

Concen: 52.292 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

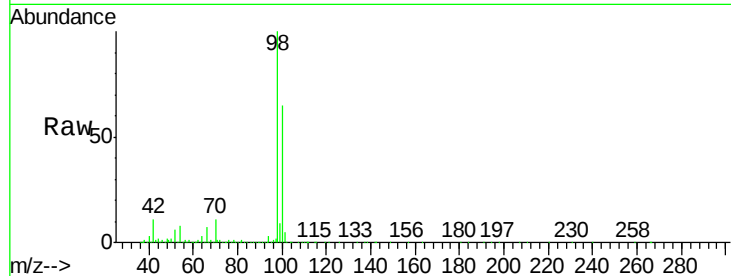
PB116589ZHE#02

Tot Ion: 98 Resp: 991624

Ion Ratio Lower Upper

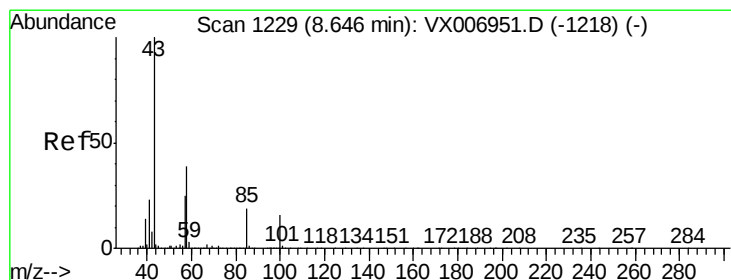
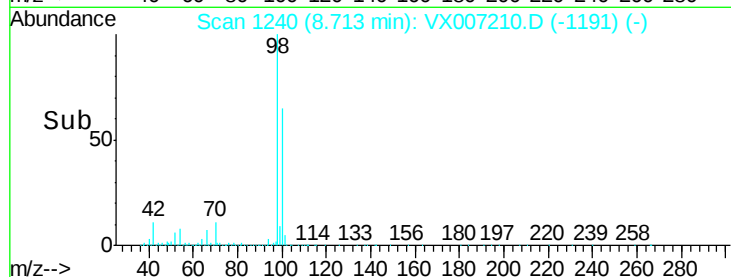
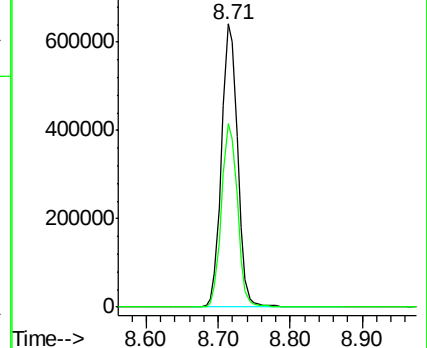
98 100

100 64.1 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 18.037 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007210.D

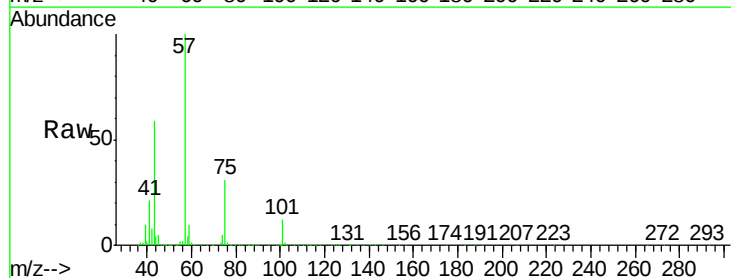
Acq: 24 Jan 2019 18:09

Tgt Ion: 43 Resp: 137872

Ion Ratio Lower Upper

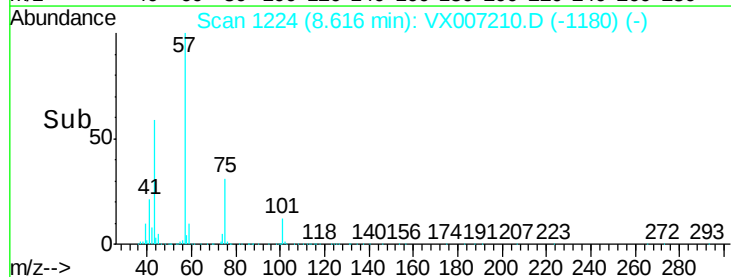
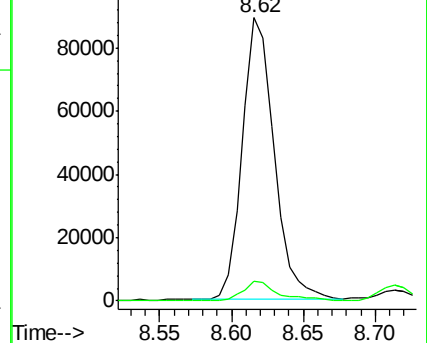
43 100

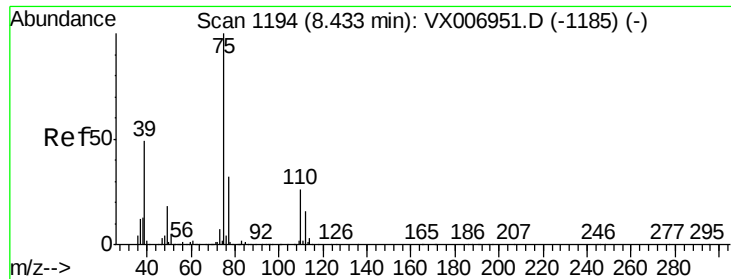
58 8.1 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 8.856 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.19 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

PB116589ZHE#02

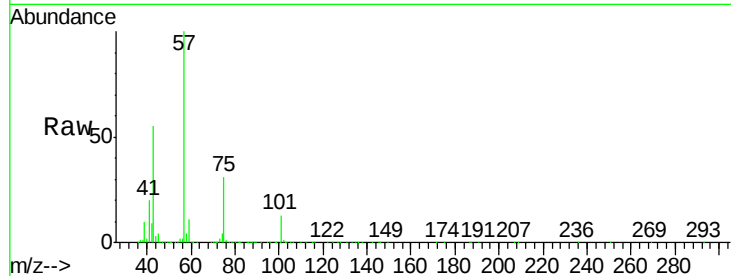
Tot Ion: 75 Resp: 69998

Ion Ratio Lower Upper

75 100

77 0.6 26.2 39.2#

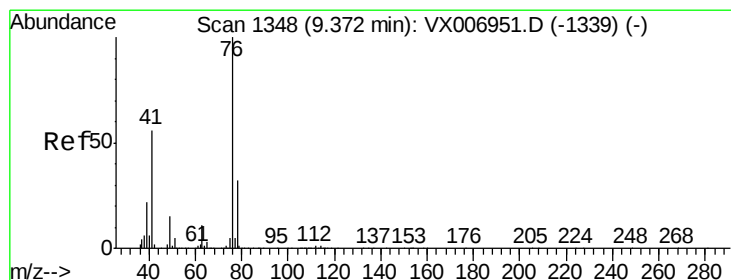
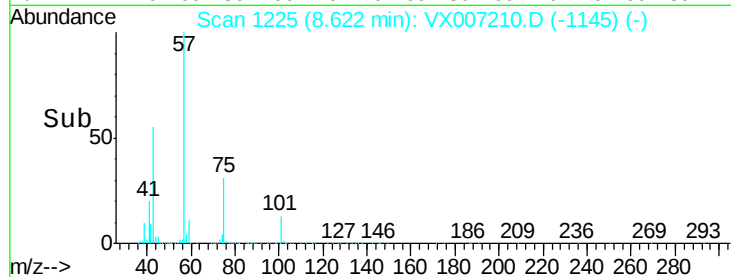
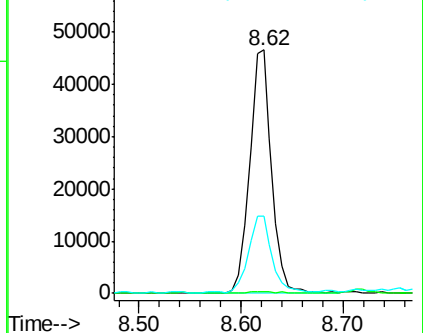
39 31.4 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 1.878 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007210.D

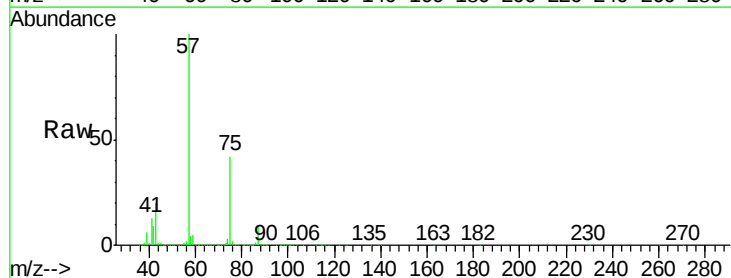
Acq: 24 Jan 2019 18:09

Tgt Ion: 76 Resp: 16986

Ion Ratio Lower Upper

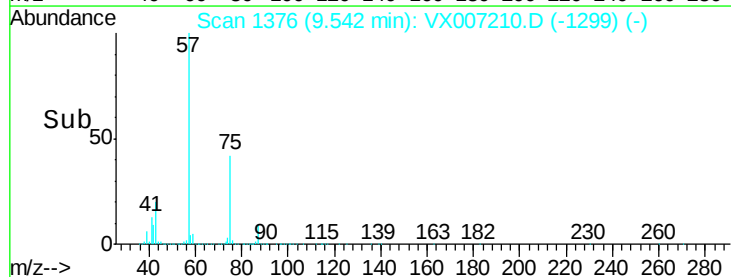
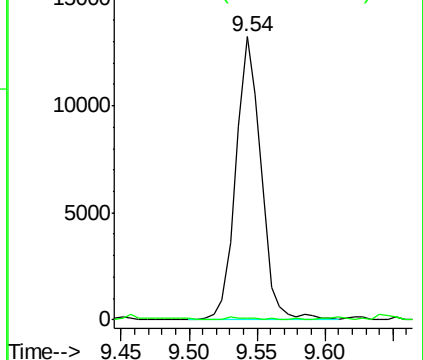
76 100

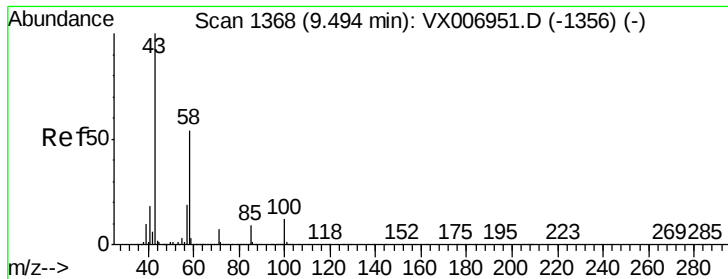
78 0.9 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#59

2-Hexanone

Concen: 38.115 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

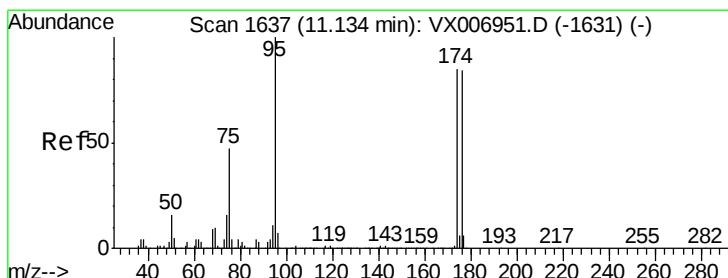
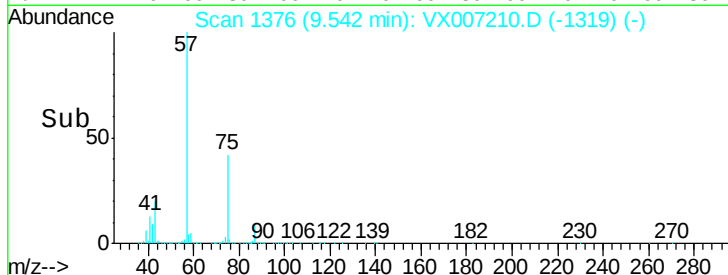
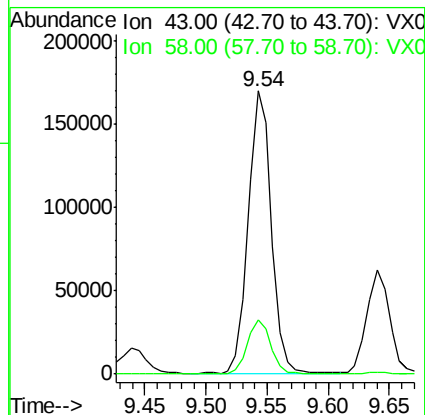
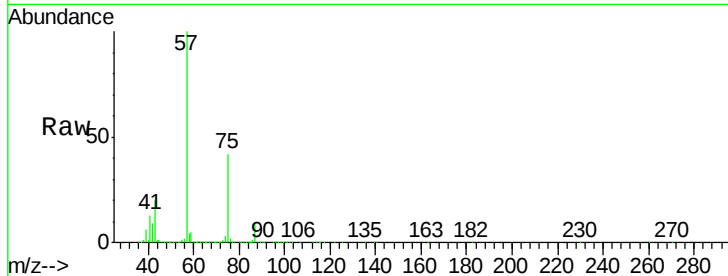
PB116589ZHE#02

Tot Ion: 43 Resp: 222022

Ion Ratio Lower Upper

43 100

58 19.5 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 52.330 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

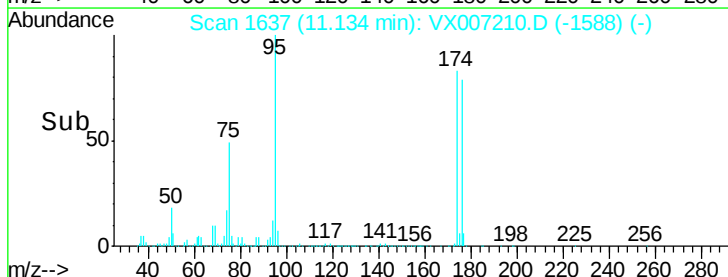
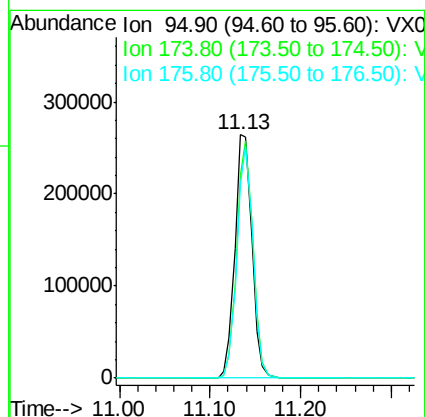
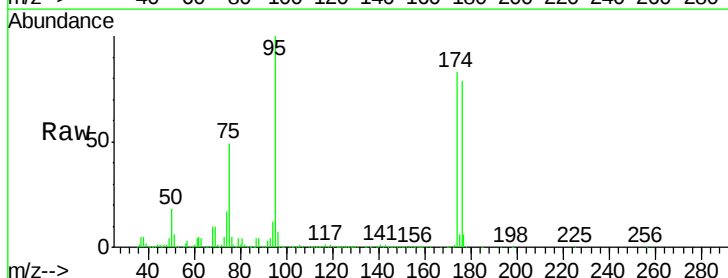
Tgt Ion: 95 Resp: 345954

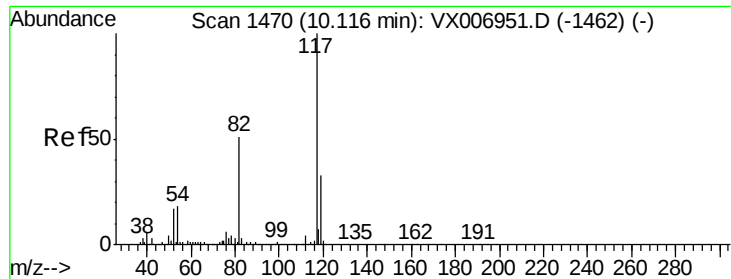
Ion Ratio Lower Upper

95 100

174 92.7 0.0 182.2

176 89.8 0.0 178.8

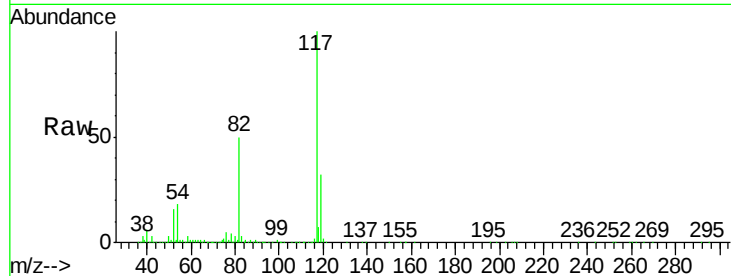




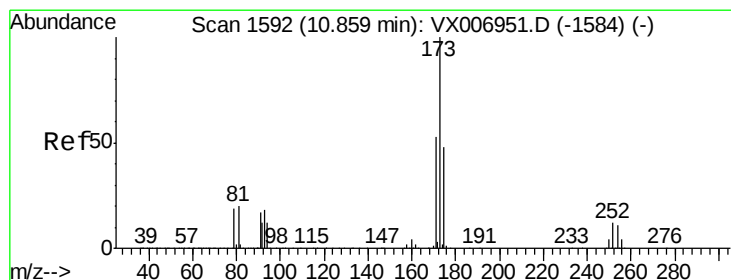
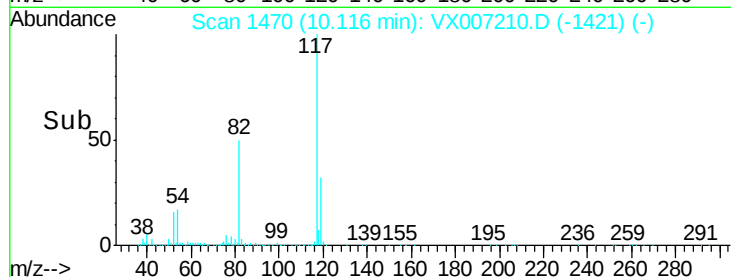
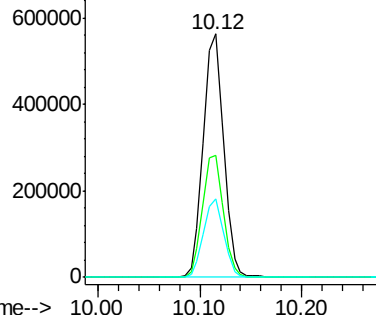
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX007210.D
Acq: 24 Jan 2019 18:09

Instrument :
MSVOA_X
ClientSampleId :
PB116589ZHE#02

Tot Ion:117 Resp: 777373
Ion Ratio Lower Upper
117 100
82 50.1 41.0 61.6
119 32.2 25.4 38.0

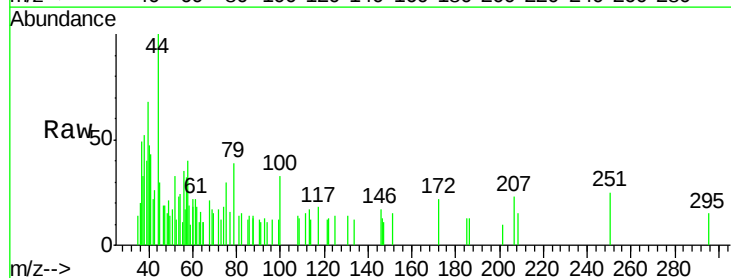


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

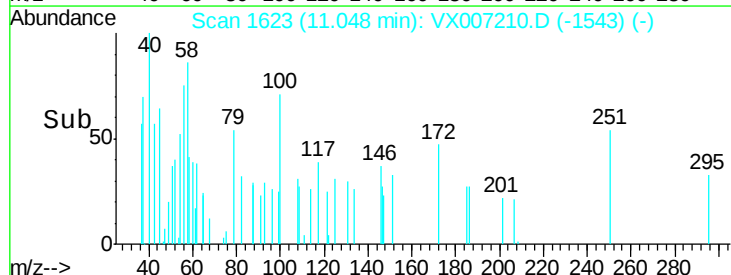
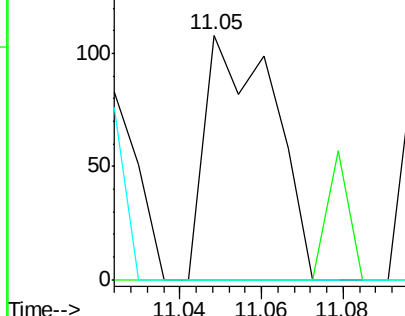


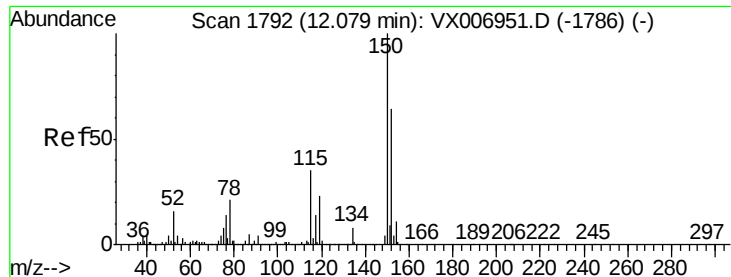
#71
Bromoform
Concen: 4.750 ug/l
RT: 11.05 min Scan# 1623
Delta R.T. 0.19 min
Lab File: VX007210.D
Acq: 24 Jan 2019 18:09

Tgt Ion:173 Resp: 127
Ion Ratio Lower Upper
173 100
175 0.0 24.7 74.1#
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

PB116589ZHE#02

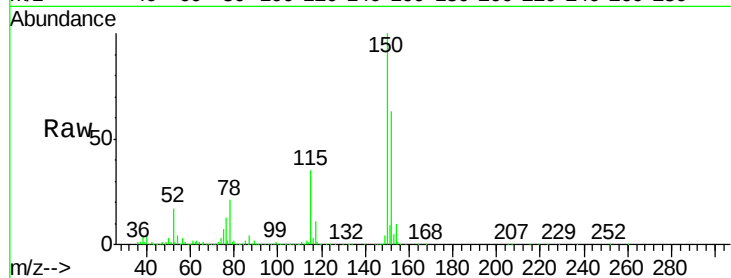
Tot Ion:152 Resp: 370255

Ion Ratio Lower Upper

152 100

115 54.3 39.1 117.2

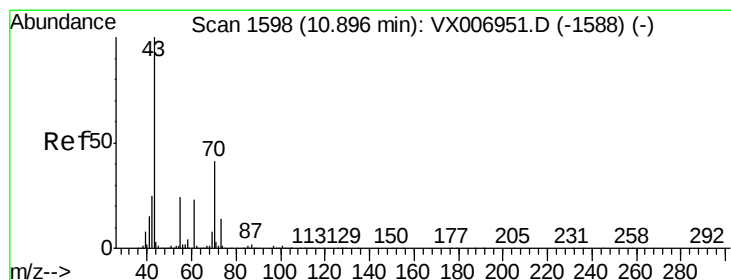
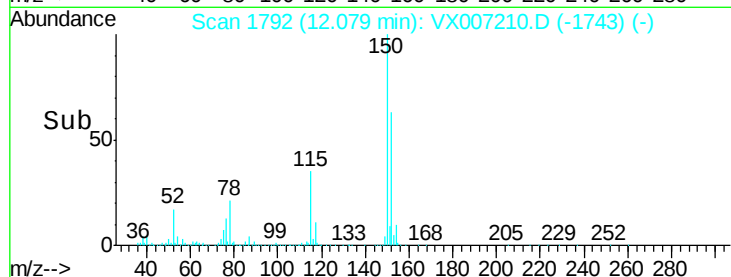
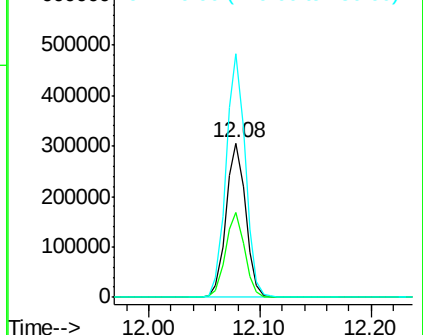
150 156.0 0.0 344.8



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: 2.093 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

Tgt Ion: 43 Resp: 22006

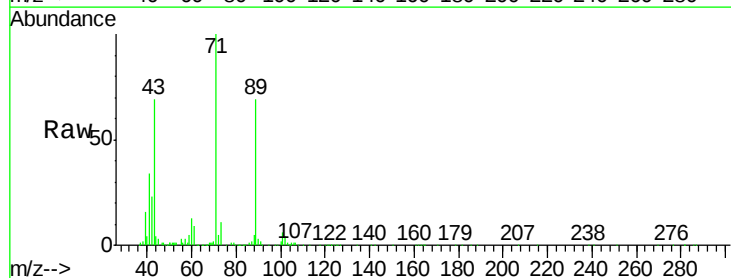
Ion Ratio Lower Upper

43 100

70 3.1 35.8 53.8#

55 5.4 19.4 29.0#

61 11.9 20.1 30.1#

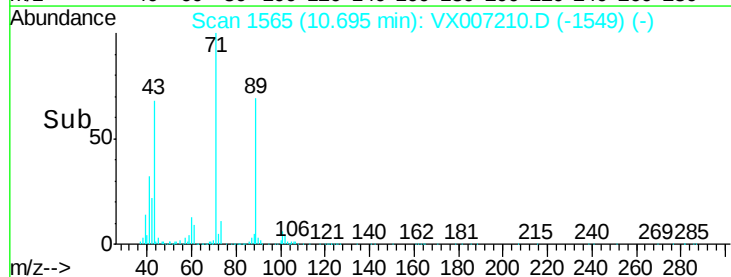
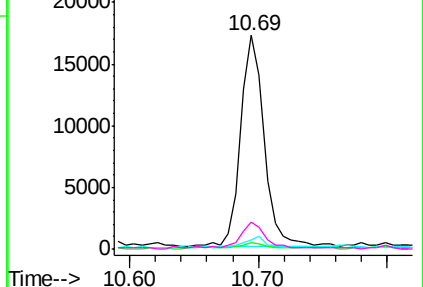


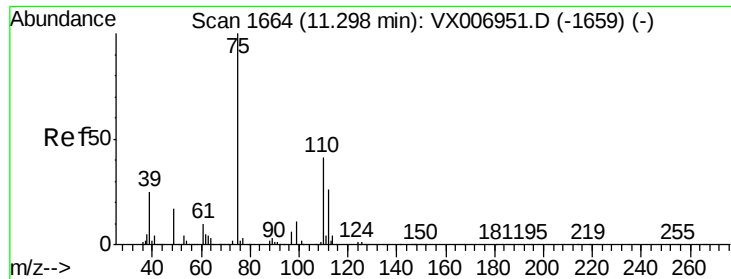
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.339 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

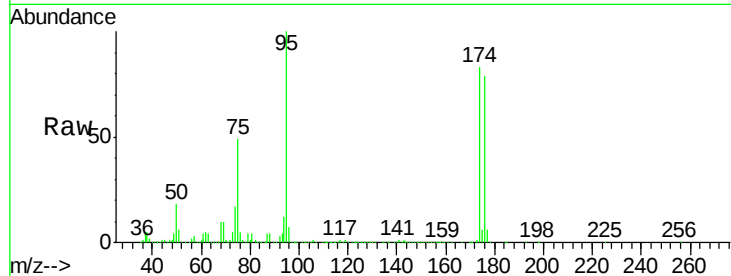
PB116589ZHE#02

Tot Ion: 75 Resp: 167613

Ion Ratio Lower Upper

75 100

77 1.4 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

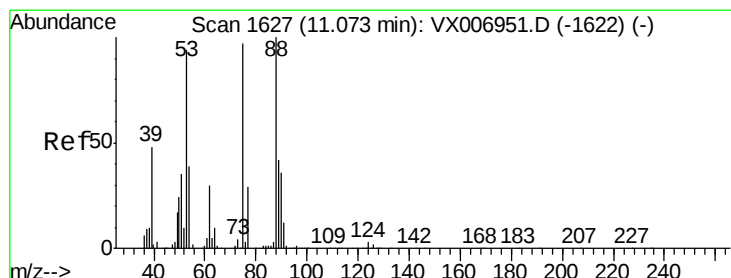
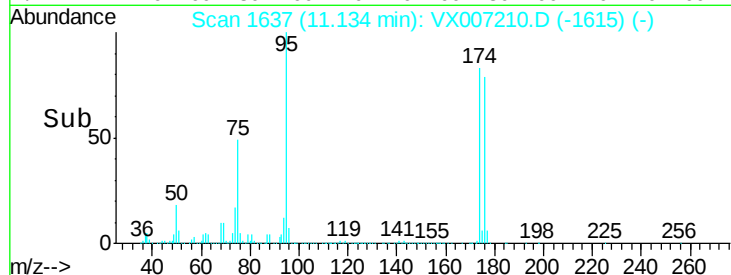
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 66.099 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

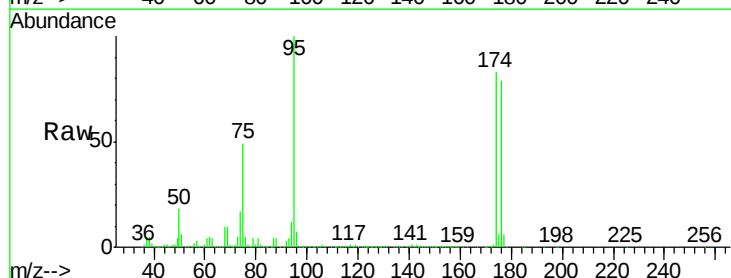
Tgt Ion: 75 Resp: 167613

Ion Ratio Lower Upper

75 100

53 0.4 79.7 119.5#

89 0.1 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.13

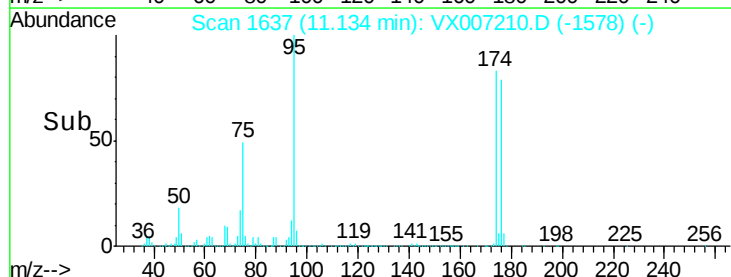
150000

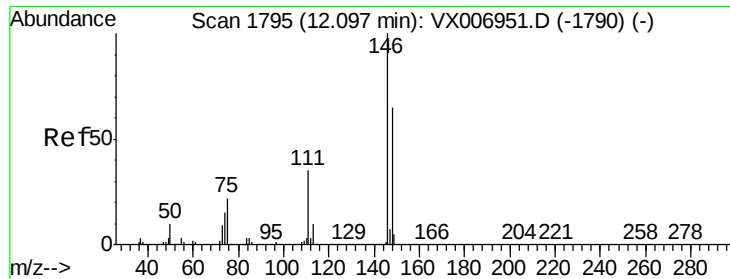
100000

50000

0

Time-->





#88

1,4-Dichlorobenzene

Concen: 0.202 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.02 min

Lab File: VX007210.D

Acq: 24 Jan 2019 18:09

Instrument :

MSVOA_X

ClientSampleId :

PB116589ZHE#02

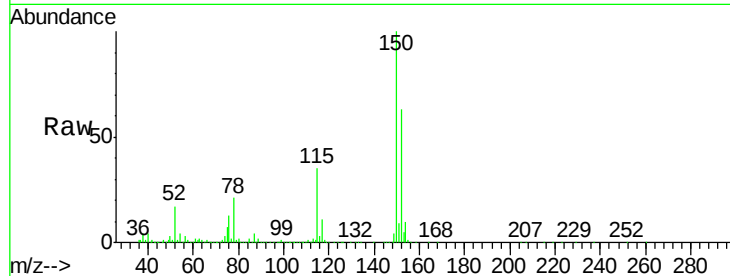
Tot Ion:146 Resp: 710

Ion Ratio Lower Upper

146 100

111 710.0 18.1 54.1#

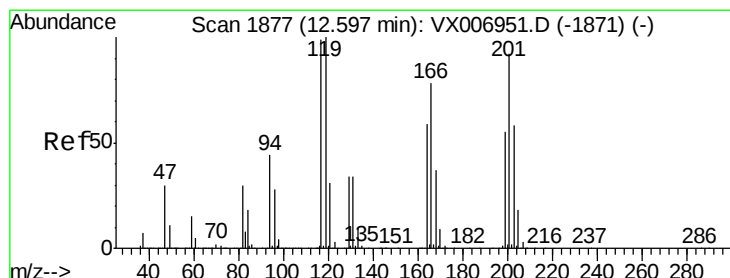
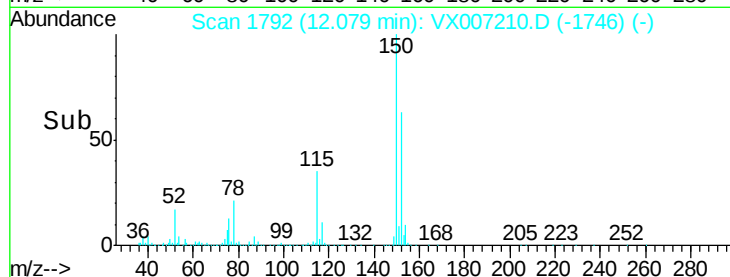
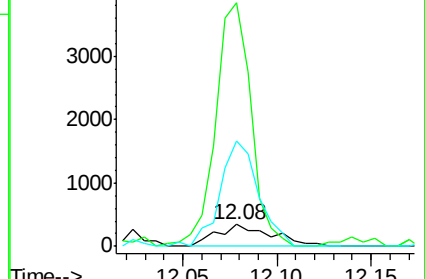
148 332.3 31.9 95.9#



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



#90

Hexachloroethane

Concen: 2.927 ug/l

RT: 12.45 min Scan# 1853

Delta R.T. -0.15 min

Lab File: VX007210.D

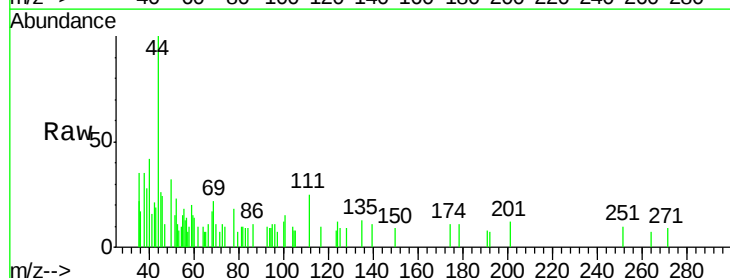
Acq: 24 Jan 2019 18:09

Tgt Ion:117 Resp: 73

Ion Ratio Lower Upper

117 100

201 79.5 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

