

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002810.D
 Acq On : 22 Jun 2018 01:47
 Operator : JC/MD
 Sample : PB110441ZHE#13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110441ZHE#13

Quant Time: Jun 22 02:25:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	233747	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	330561	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	310606	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	173964	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	163574	46.05	ug/l	0.00
Spiked Amount			Recovery	=	92.10%	
35) Dibromofluoromethane	5.51	113	126088	47.79	ug/l	0.00
Spiked Amount			Recovery	=	95.58%	
50) Toluene-d8	8.72	98	473238	47.24	ug/l	0.00
Spiked Amount			Recovery	=	94.48%	
62) 4-Bromofluorobenzene	11.14	95	162775	42.88	ug/l	0.00
Spiked Amount			Recovery	=	85.76%	

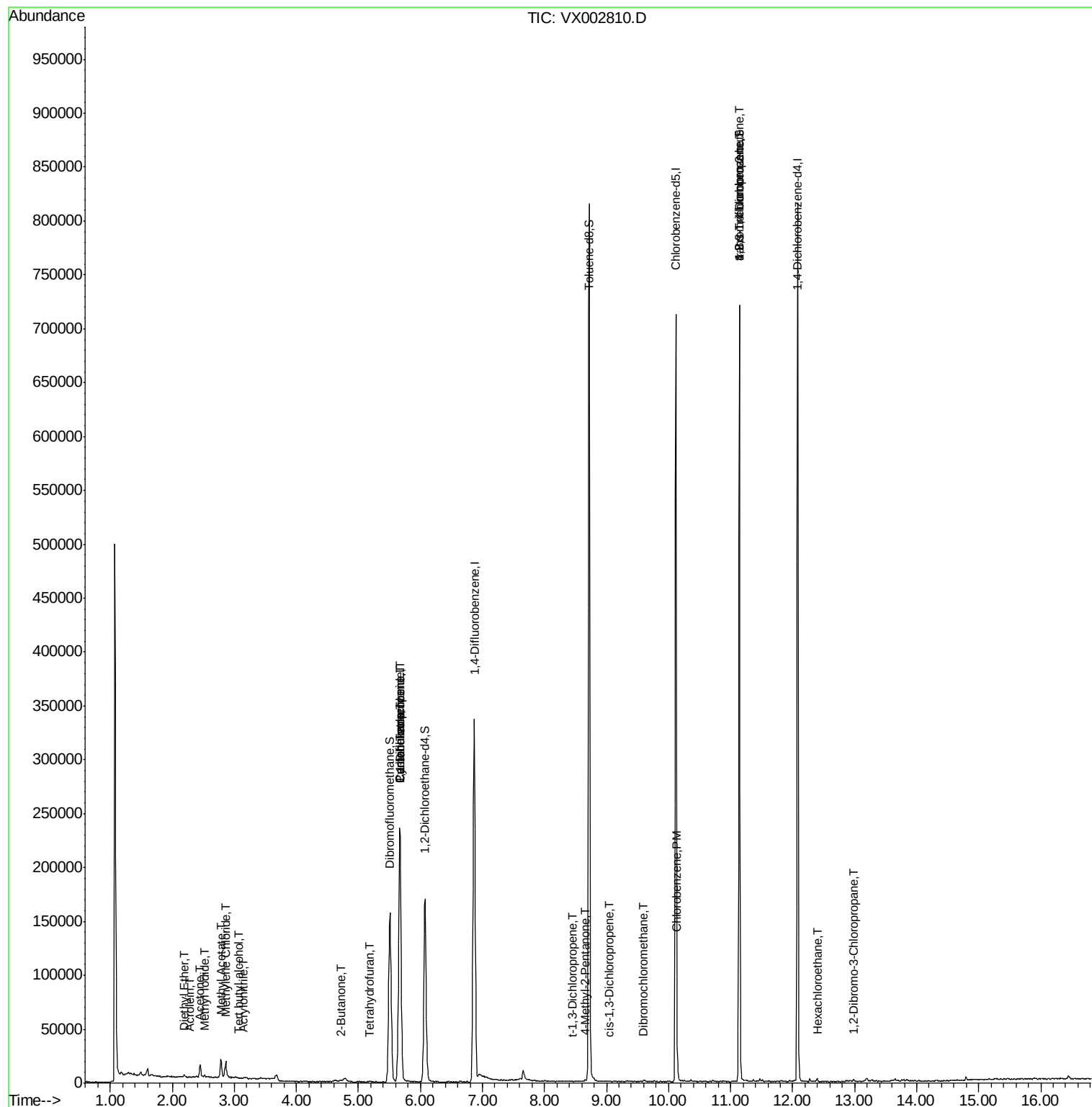
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.19	74	595	0.31	ug/l	82
10) Methyl Iodide	2.52	142	1882	5.63	ug/l	93
11) Tert butyl alcohol	3.07	59	498	0.68	ug/l #	78
13) Acrolein	2.28	56	164	7.33	ug/l #	34
15) Acrylonitrile	3.15	53	323	0.20	ug/l #	74
16) Acetone	2.45	43	13262	8.46	ug/l	99
18) Methyl Acetate	2.78	43	20651	4.95	ug/l	97
20) Methylene Chloride	2.86	84	6585	2.05	ug/l	91
25) 2-Butanone	4.71	43	997	0.48	ug/l #	87
29) Tetrahydrofuran	5.18	42	881	0.65	ug/l #	68
31) Cyclohexane	5.67	56	4980	1.19	ug/l #	22
36) 1,1-Dichloropropene	5.67	75	16198	4.61	ug/l #	53
38) Carbon Tetrachloride	5.67	117	21624	6.19	ug/l #	15
51) 4-Methyl-2-Pentanone	8.65	43	1086	0.26	ug/l	90
53) t-1,3-Dichloropropene	8.44	75	46	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.04	75	107	3.24	ug/l #	30
60) Dibromochloromethane	9.59	129	44	3.77	ug/l #	11
65) Chlorobenzene	10.14	112	3410	0.45	ug/l	92
76) 1,2,3-Trichloropropane	11.14	75	87500	26.66	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	87500	82.34	ug/l #	7
90) Hexachloroethane	12.39	117	59	2.66	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	12.99	75	352	0.49	ug/l #	1

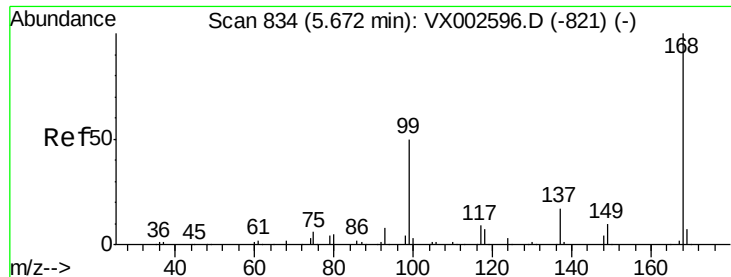
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002810.D

Acq: 22 Jun 2018 01:47

Instrument :

MSVOA_X

ClientSampleId :

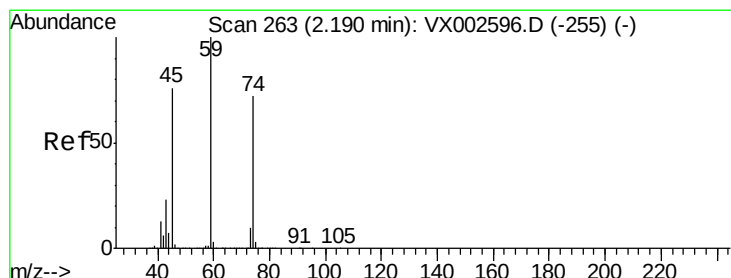
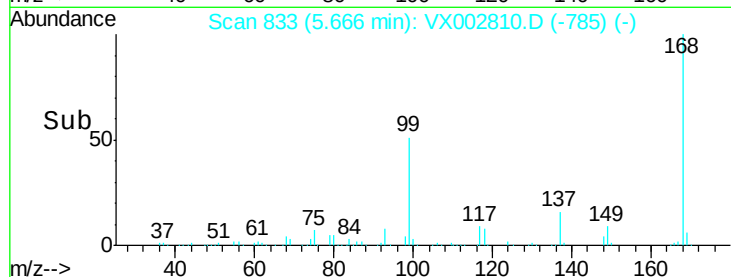
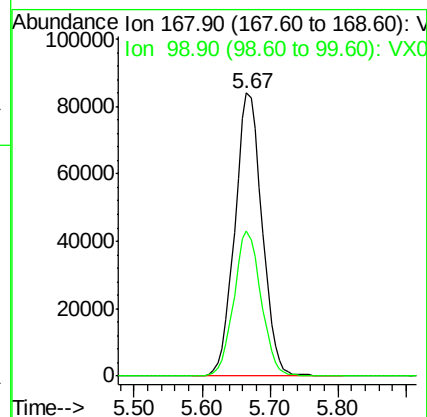
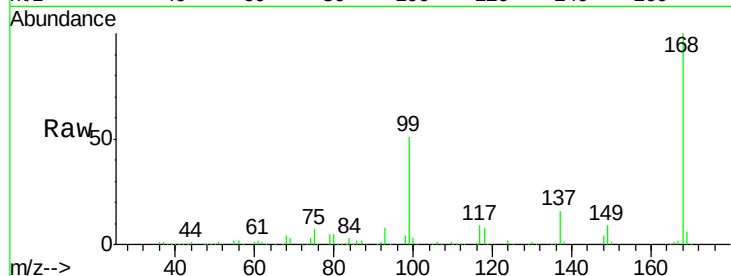
PB110441ZHE#13

Tot Ion:168 Resp: 233747

Ion Ratio Lower Upper

168 100

99 51.2 39.3 58.9



#8

Diethyl Ether

Concen: 0.31 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002810.D

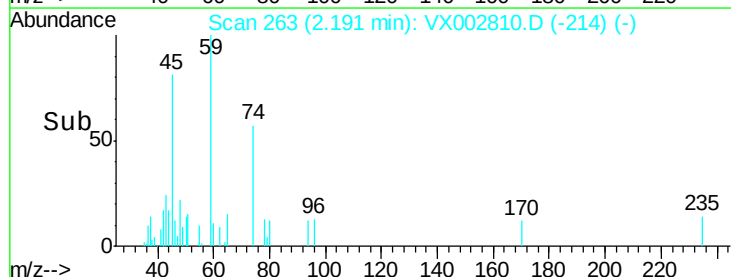
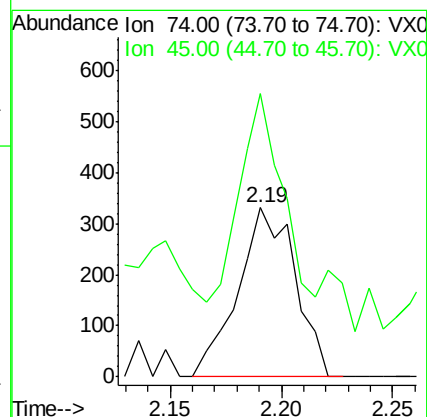
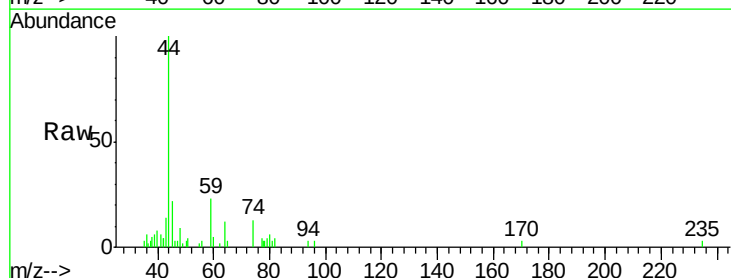
Acq: 22 Jun 2018 01:47

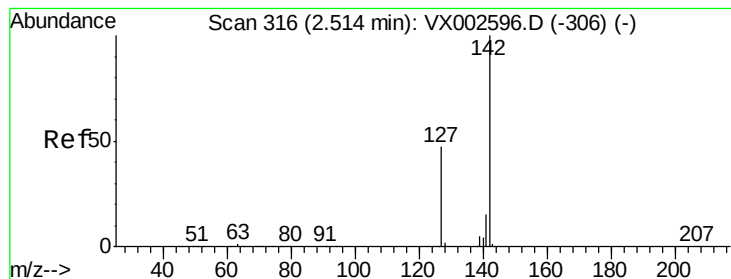
Tgt Ion: 74 Resp: 595

Ion Ratio Lower Upper

74 100

45 87.9 53.1 159.4





#10

Methvl Iodide

Concen: 5.63 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002810.D

Acq: 22 Jun 2018 01:47

Instrument :

MSVOA_X

ClientSampleId :

PB110441ZHE#13

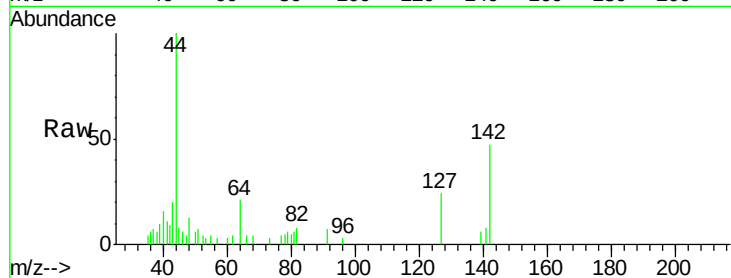
Tot Ion:142 Resp: 1882

Ion Ratio Lower Upper

142 100

127 51.1 36.6 55.0

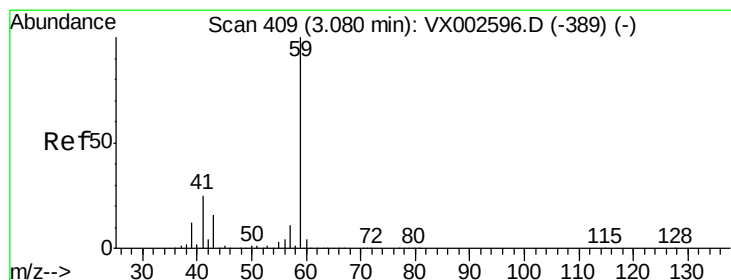
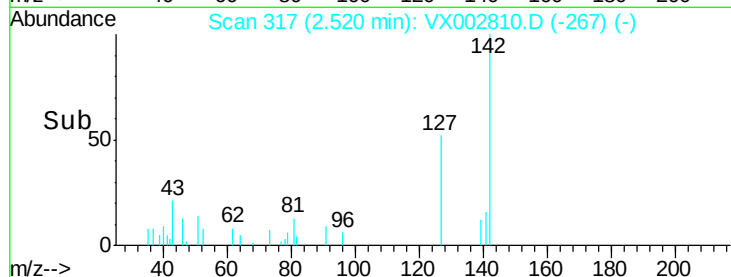
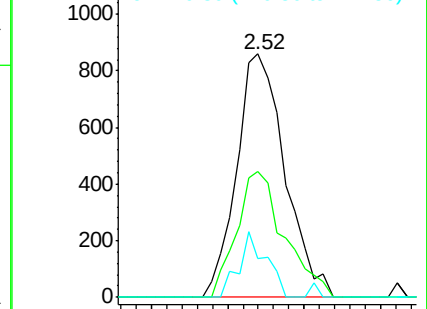
141 15.1 11.3 16.9



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.68 ug/l

RT: 3.07 min Scan# 407

Delta R.T. -0.01 min

Lab File: VX002810.D

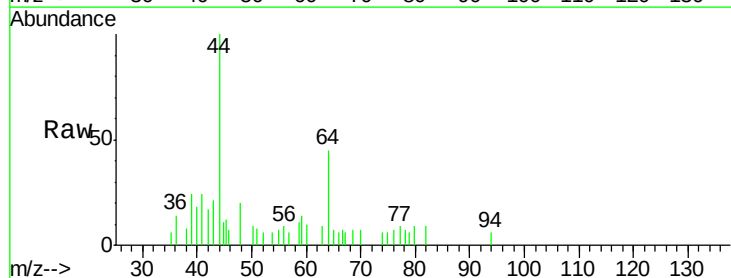
Acq: 22 Jun 2018 01:47

Tgt Ion: 59 Resp: 498

Ion Ratio Lower Upper

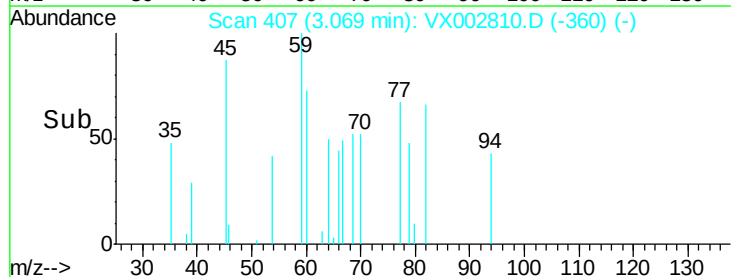
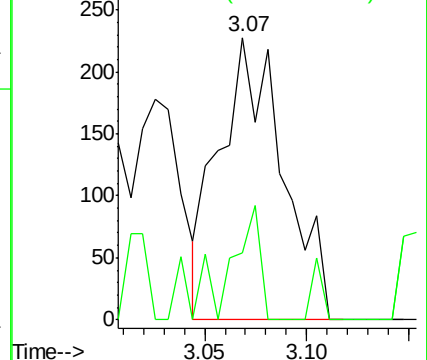
59 100

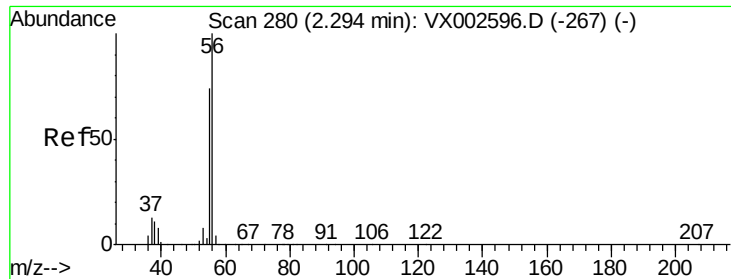
57 18.3 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 7.33 ug/l

RT: 2.28 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX002810.D

Acq: 22 Jun 2018 01:47

Instrument :

MSVOA_X

ClientSampleId :

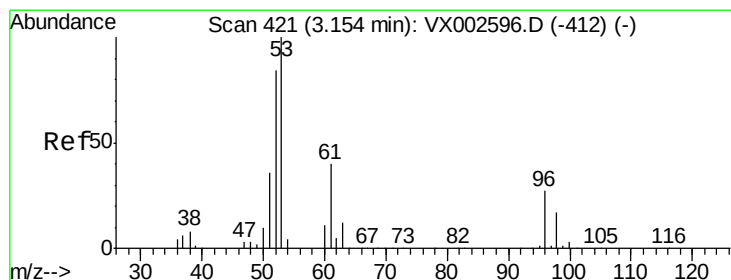
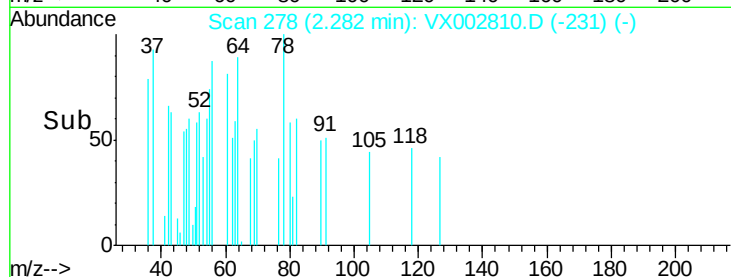
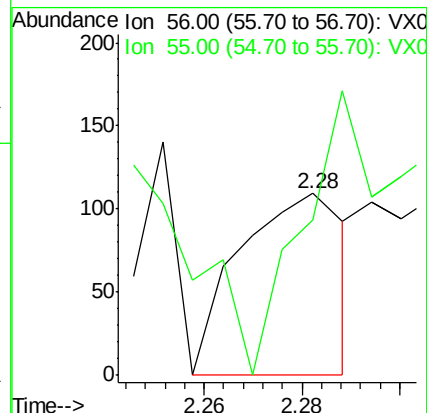
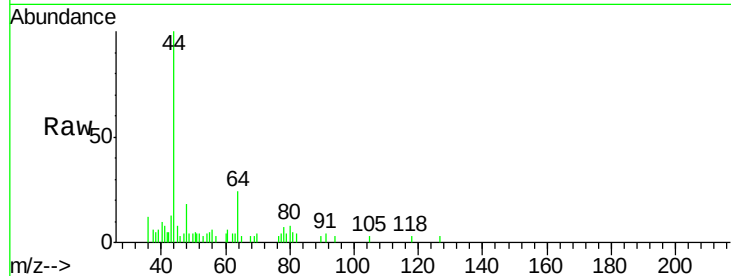
PB110441ZHE#13

Tot Ion: 56 Resp: 164

Ion Ratio Lower Upper

56 100

55 126.2 57.0 85.4#



#15

Acrylonitrile

Concen: 0.20 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002810.D

Acq: 22 Jun 2018 01:47

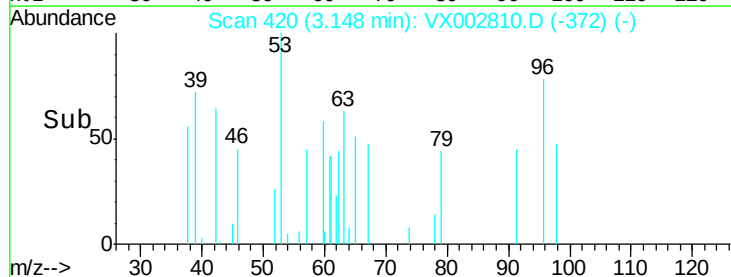
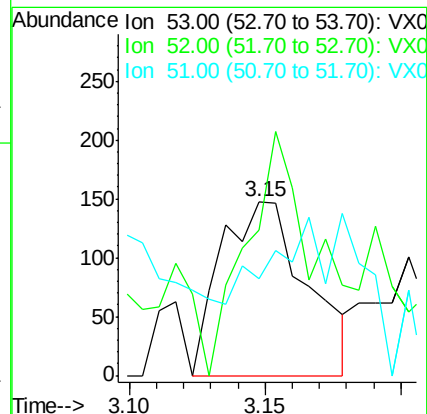
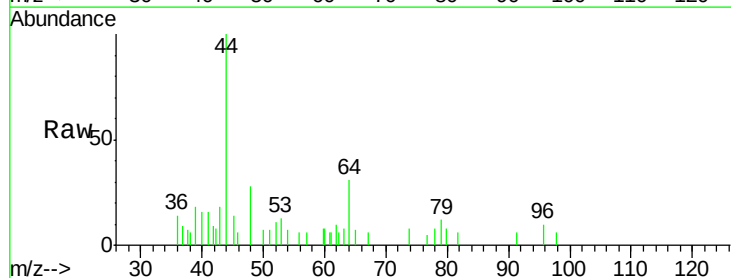
Tgt Ion: 53 Resp: 323

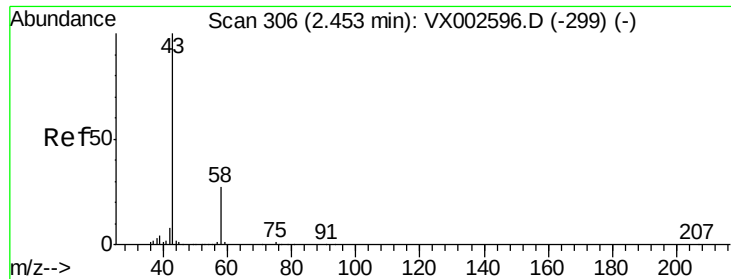
Ion Ratio Lower Upper

53 100

52 115.5 66.7 100.1#

51 40.9 29.9 44.9





#16

Acetone

Concen: 8.46 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002810.D

Acq: 22 Jun 2018 01:47

Instrument :

MSVOA_X

ClientSampleId :

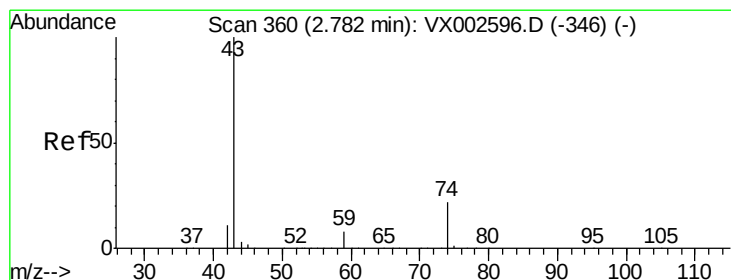
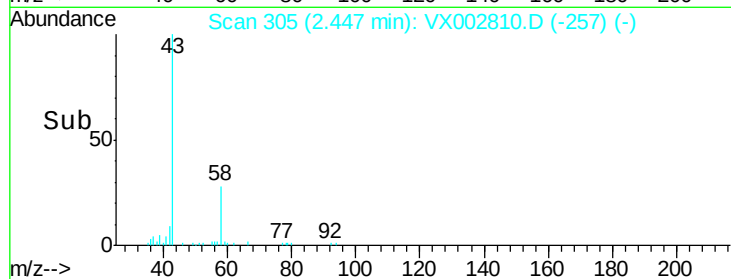
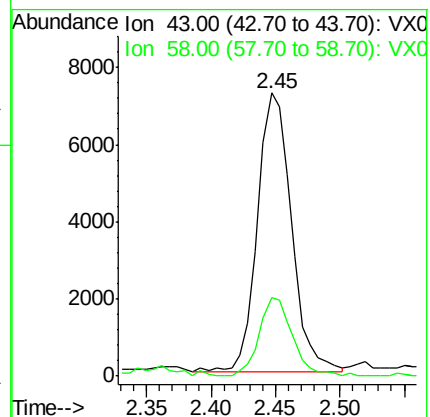
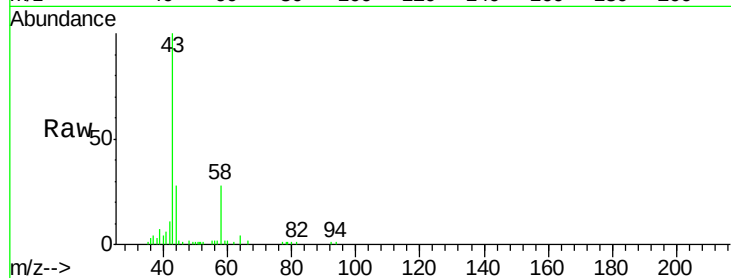
PB110441ZHE#13

Tot Ion: 43 Resp: 13262

Ion Ratio Lower Upper

43 100

58 28.1 22.1 33.1



#18

Methyl Acetate

Concen: 4.95 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002810.D

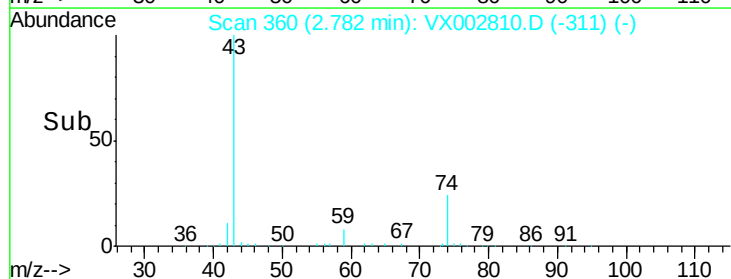
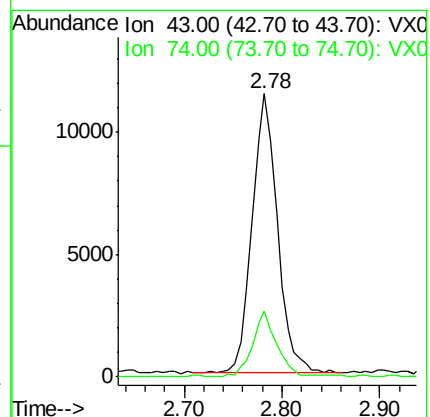
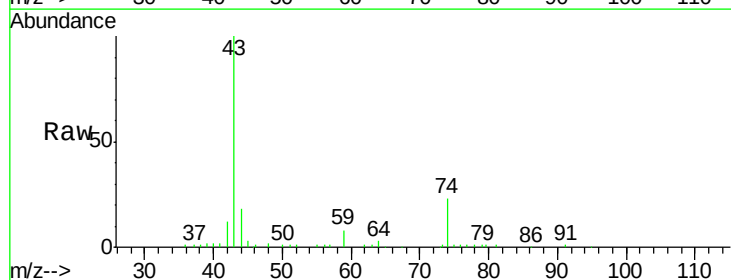
Acq: 22 Jun 2018 01:47

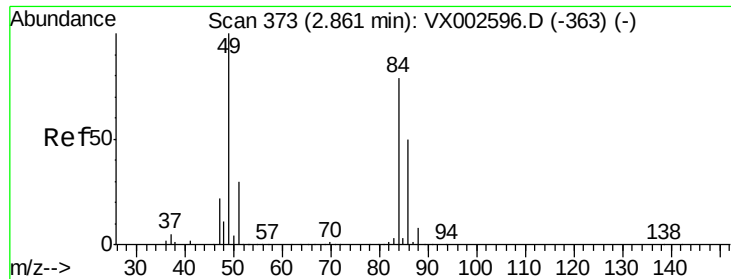
Tgt Ion: 43 Resp: 20651

Ion Ratio Lower Upper

43 100

74 22.5 16.7 25.1

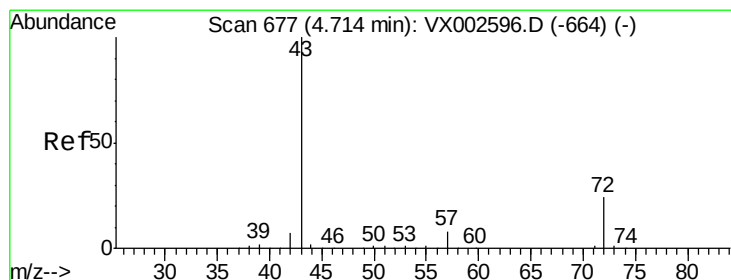
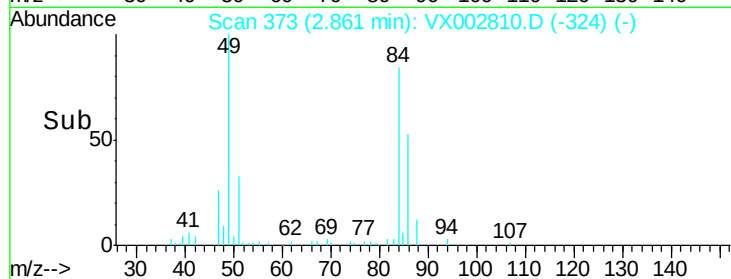
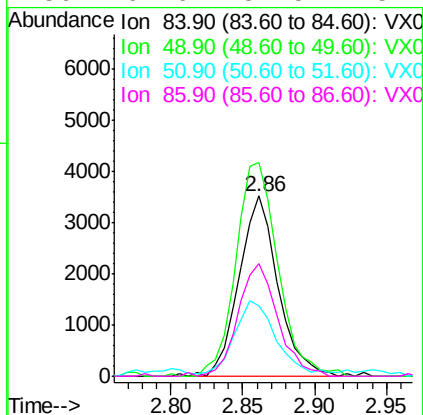
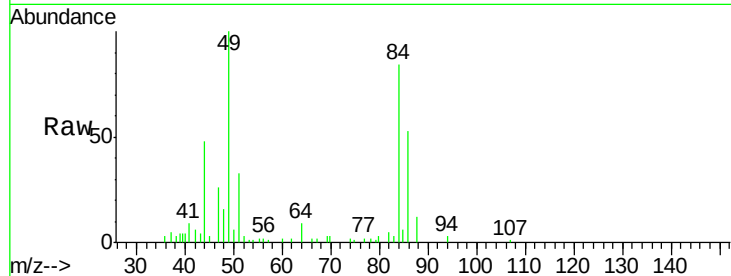




#20
Methvlene Chloride
Concen: 2.05 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002810.D
Acq: 22 Jun 2018 01:47

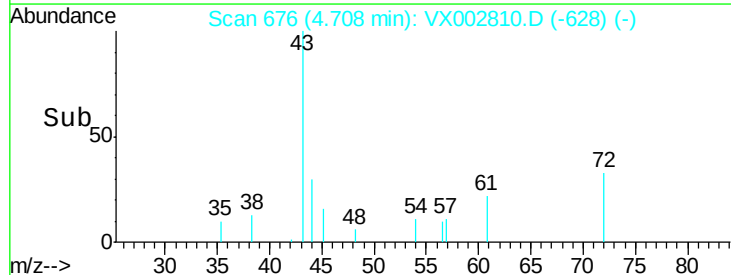
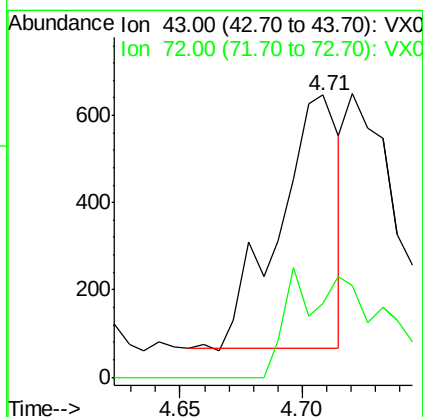
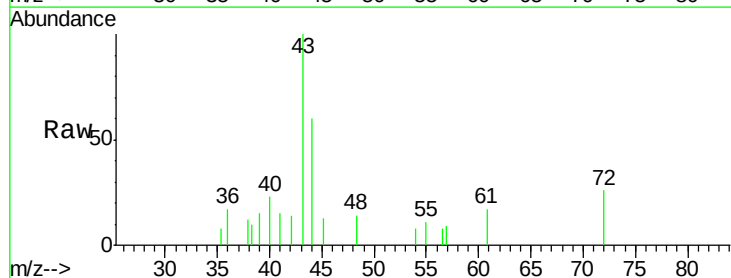
Instrument :
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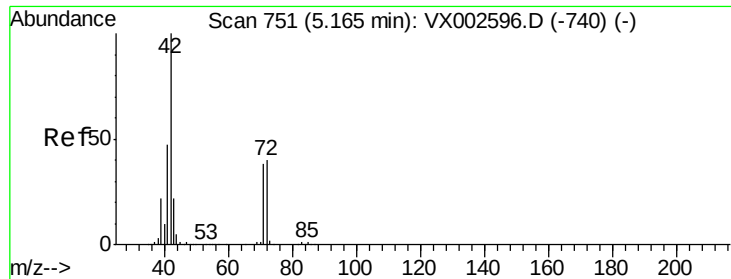
Tot Ion: 84 Resp: 6585
Ion Ratio Lower Upper
84 100
49 118.4 107.8 161.6
51 37.9 32.8 49.2
86 62.6 52.5 78.7



#25
2-Butanone
Concen: 0.48 ug/l
RT: 4.71 min Scan# 676
Delta R.T. -0.01 min
Lab File: VX002810.D
Acq: 22 Jun 2018 01:47

Tgt Ion: 43 Resp: 997
Ion Ratio Lower Upper
43 100
72 29.4 18.5 27.7#





#29

Tetrahydrofuran

Concen: 0.65 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002810.D

Acq: 22 Jun 2018 01:47

Instrument :

MSVOA_X

ClientSampleId :

PB110441ZHE#13

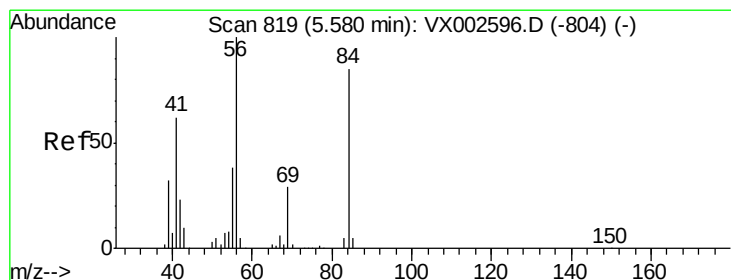
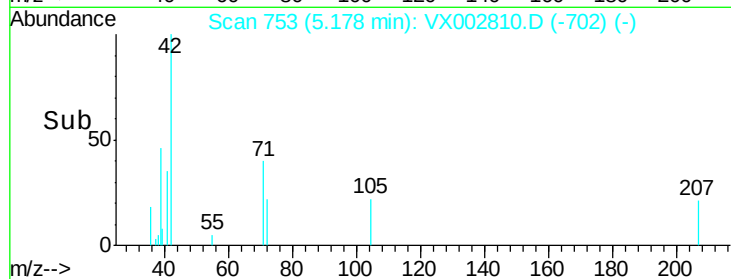
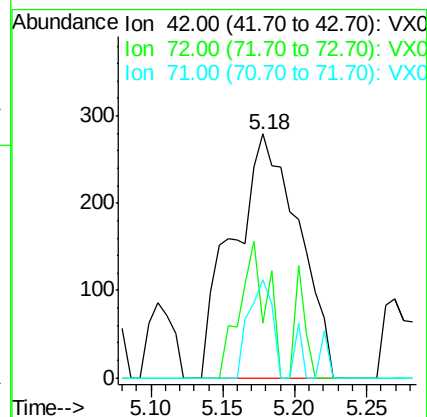
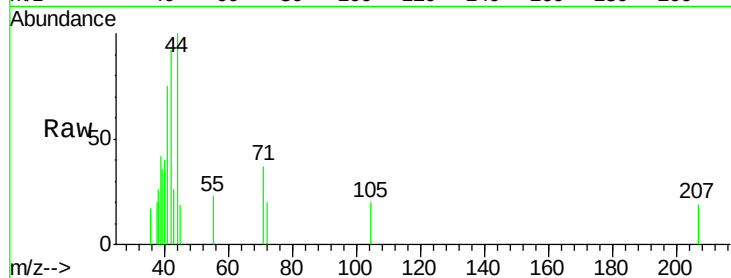
Tot Ion: 42 Resp: 881

Ion Ratio Lower Upper

42 100

72 23.5 32.0 48.0#

71 14.5 30.1 45.1#



#31

Cyclohexane

Concen: 1.19 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX002810.D

Acq: 22 Jun 2018 01:47

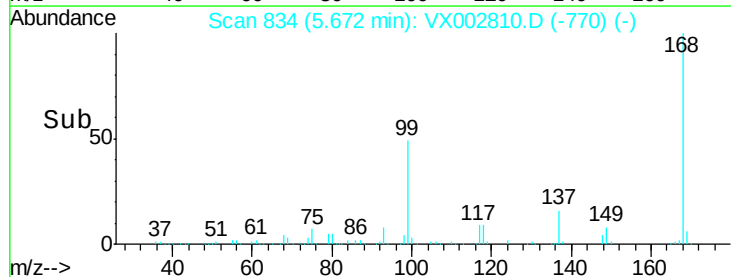
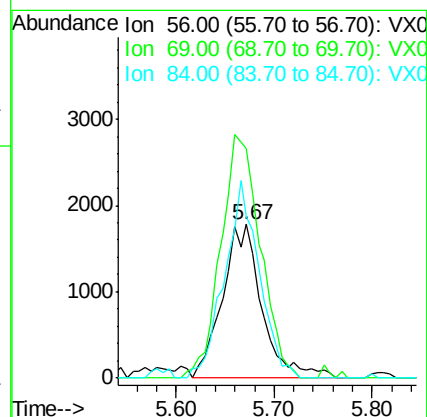
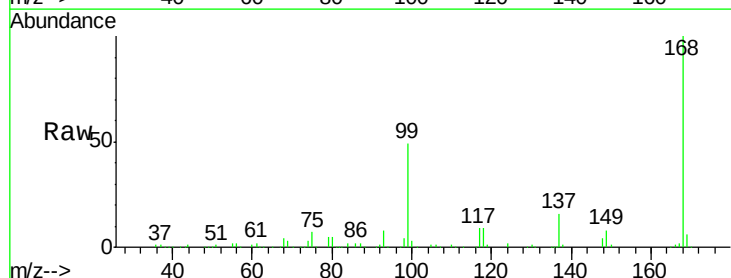
Tgt Ion: 56 Resp: 4980

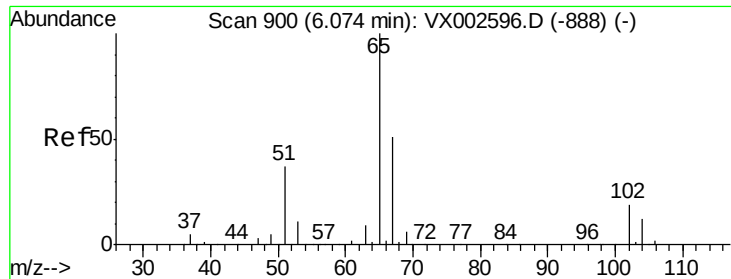
Ion Ratio Lower Upper

56 100

69 144.9 23.7 35.5#

84 105.0 64.1 96.1#

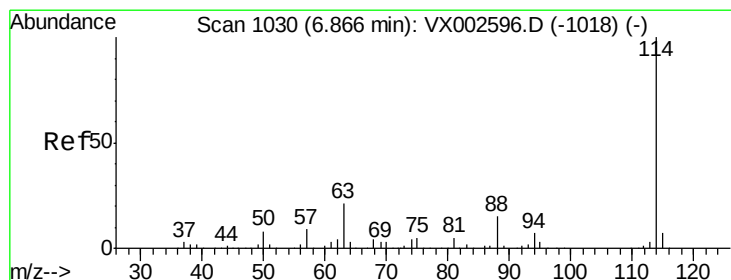
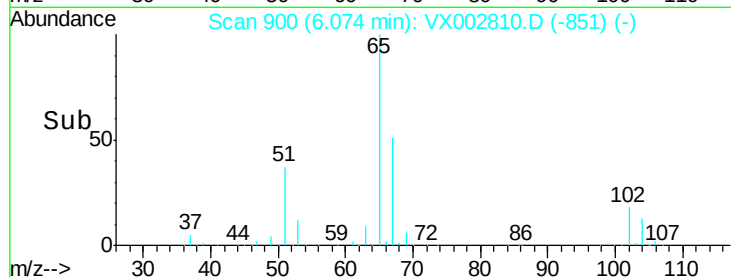
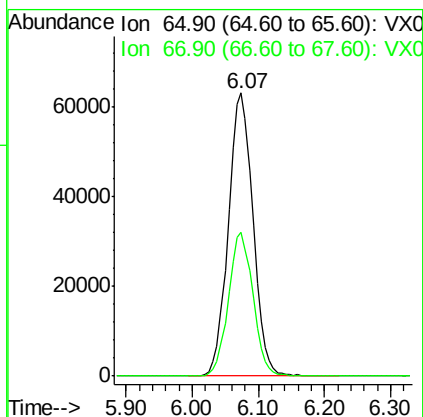
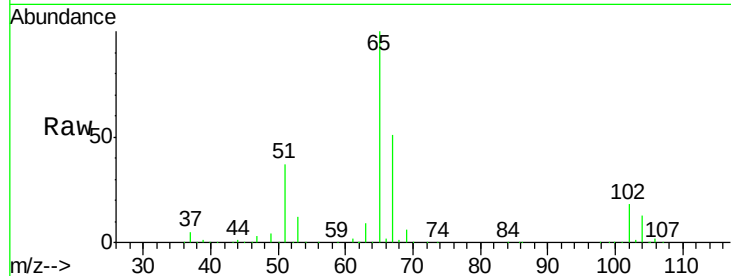




#33
 1,2-Dichloroethane-d4
 Concen: 46.05 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002810.D
 Acq: 22 Jun 2018 01:47

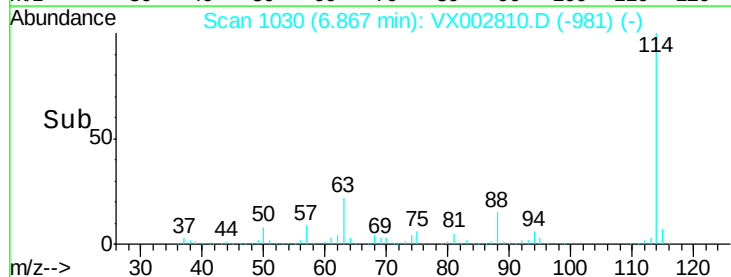
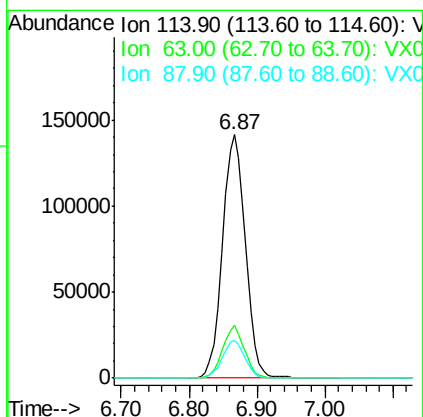
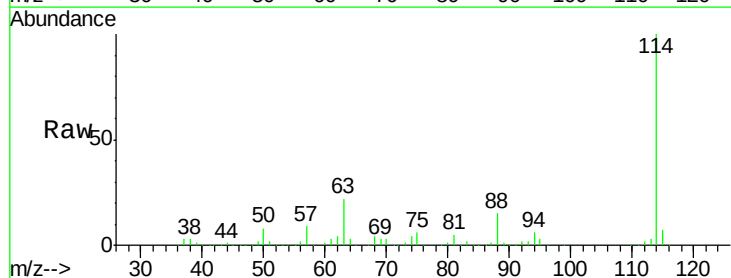
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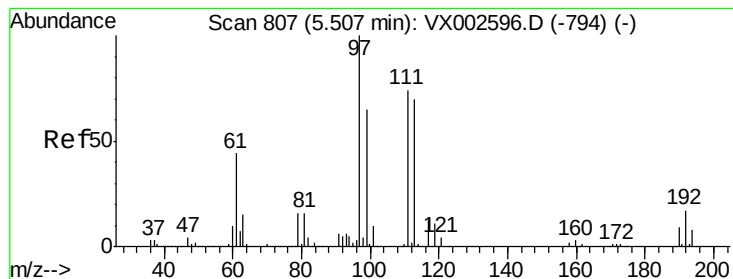
Tot Ion: 65 Resp: 163574
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002810.D
 Acq: 22 Jun 2018 01:47

Tgt Ion: 114 Resp: 330561
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 41.4
 88 15.4 0.0 30.0





#35

Dibromofluoromethane

Concen: 47.79 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002810.D

Acq: 22 Jun 2018 01:47

Instrument :

MSVOA_X

ClientSampleId :

PB110441ZHE#13

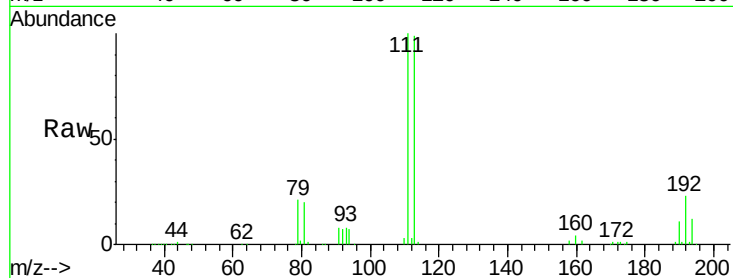
Tot Ion:113 Resp: 126088

Ion Ratio Lower Upper

113 100

111 103.0 81.4 122.0

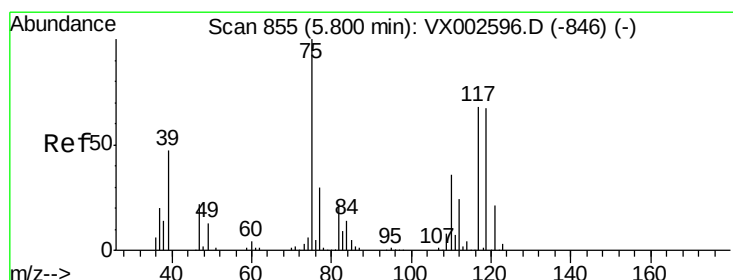
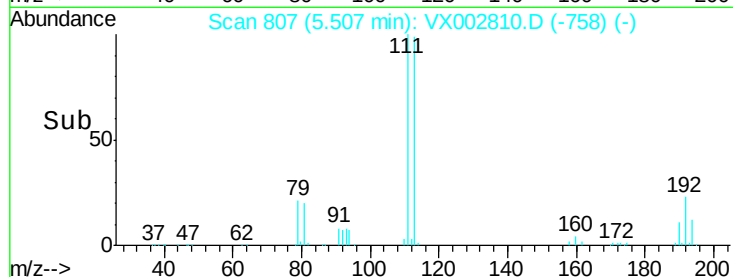
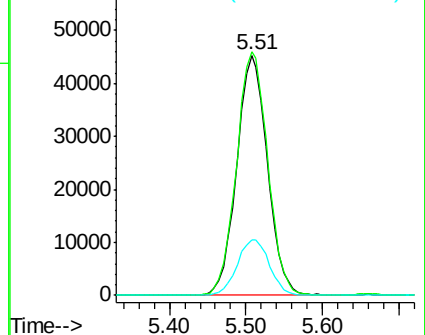
192 24.3 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.61 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002810.D

Acq: 22 Jun 2018 01:47

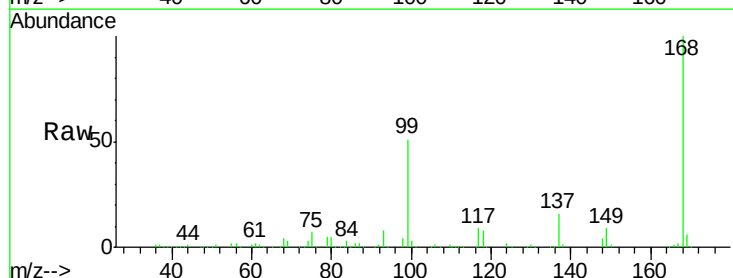
Tgt Ion: 75 Resp: 16198

Ion Ratio Lower Upper

75 100

110 12.5 18.1 54.4#

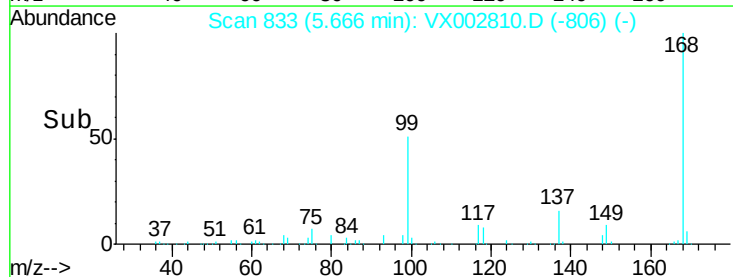
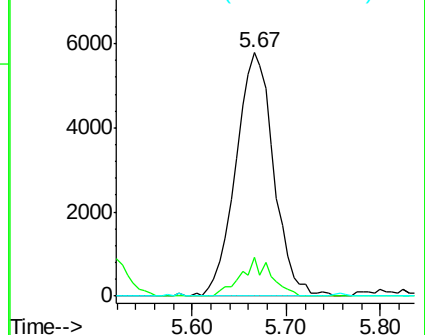
77 0.0 24.3 36.5#

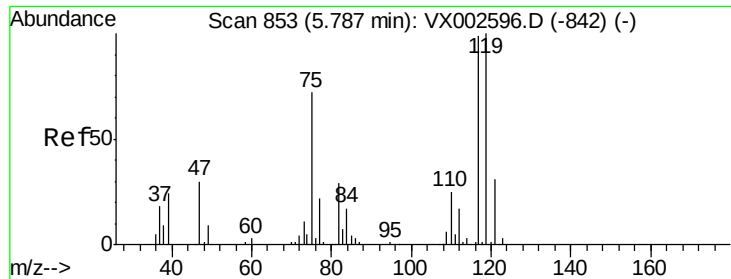


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.19 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002810.D

Acq: 22 Jun 2018 01:47

Instrument :

MSVOA_X

ClientSampleId :

PB110441ZHE#13

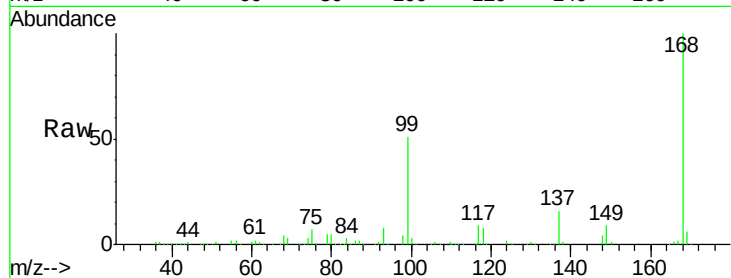
Tot Ion:117 Resp: 21624

Ion Ratio Lower Upper

117 100

119 4.4 77.4 116.0#

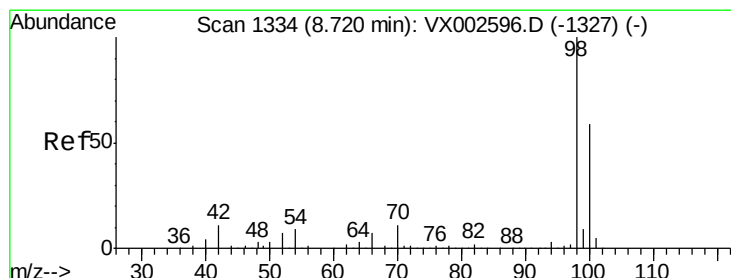
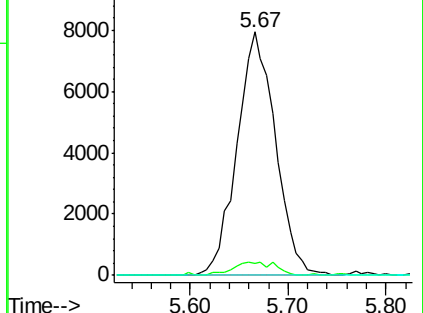
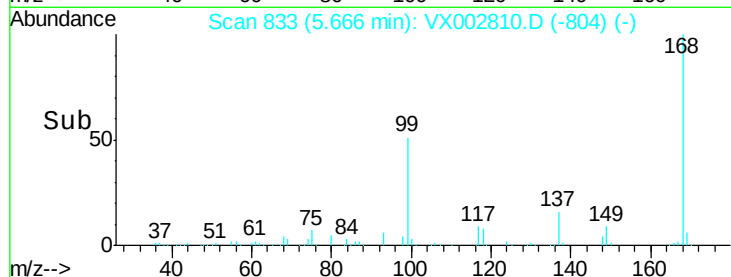
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 47.24 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002810.D

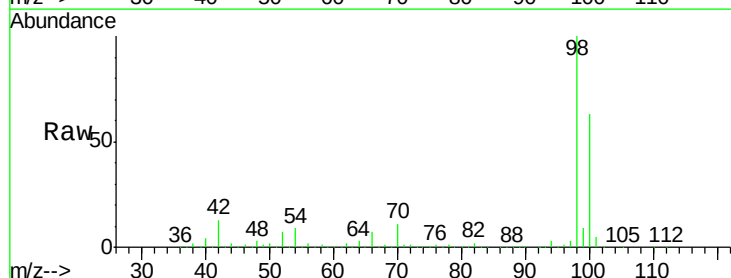
Acq: 22 Jun 2018 01:47

Tgt Ion: 98 Resp: 473238

Ion Ratio Lower Upper

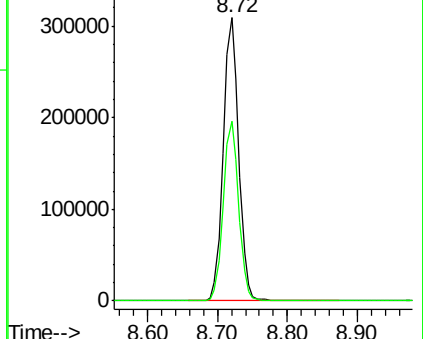
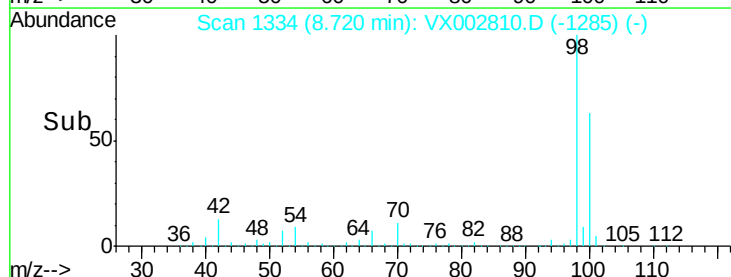
98 100

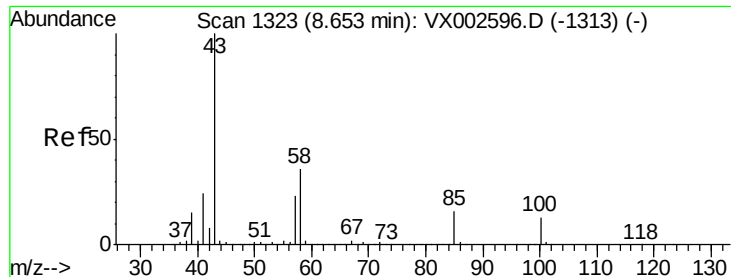
100 63.5 50.9 76.3



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: 0.26 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VX002810.D

Acq: 22 Jun 2018 01:47

Instrument :

MSVOA_X

ClientSampleId :

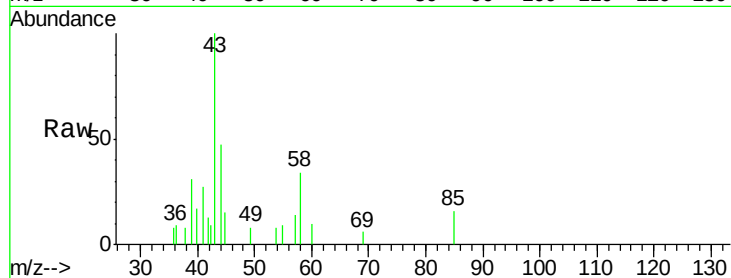
PB110441ZHE#13

Tot Ion: 43 Resp: 1086

Ion Ratio Lower Upper

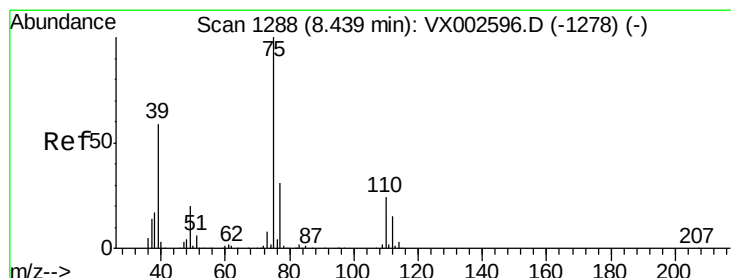
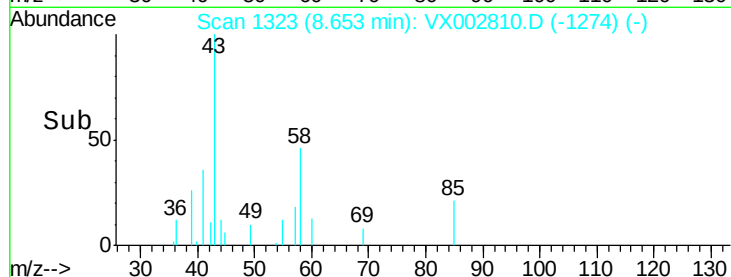
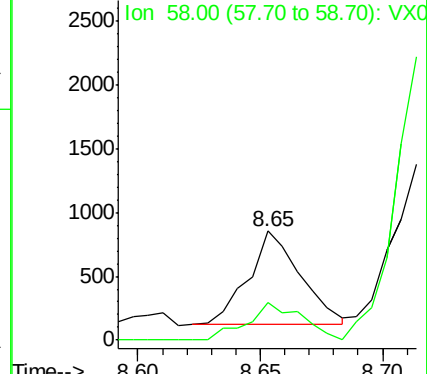
43 100

58 41.7 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX002810.D

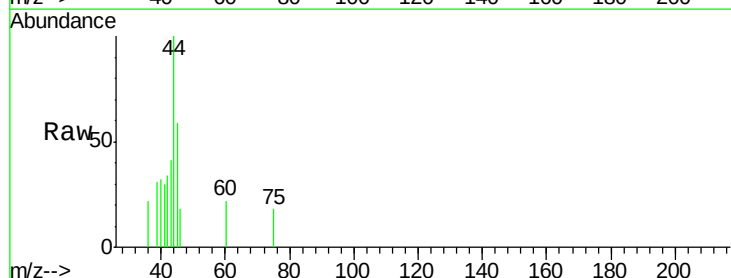
Acq: 22 Jun 2018 01:47

Tgt Ion: 75 Resp: 46

Ion Ratio Lower Upper

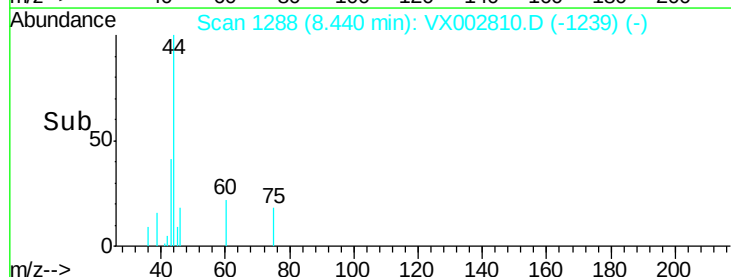
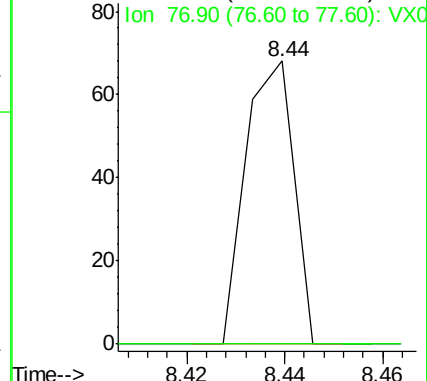
75 100

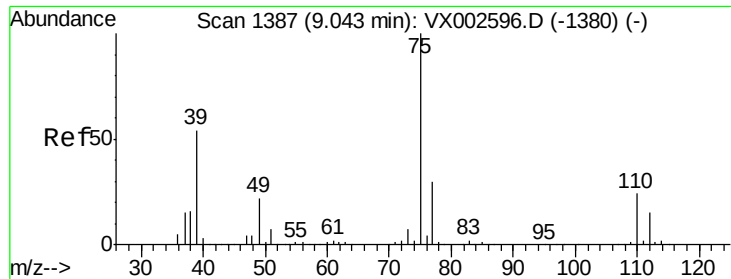
77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



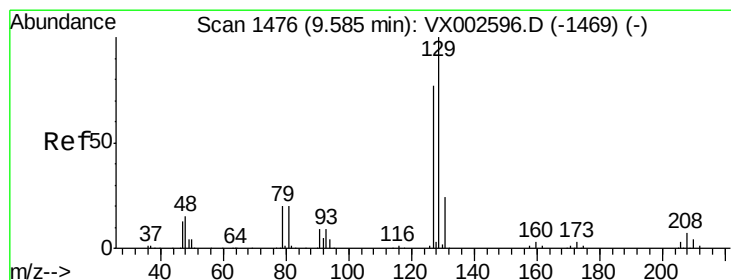
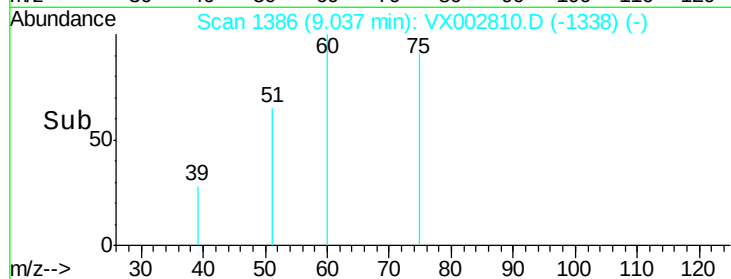
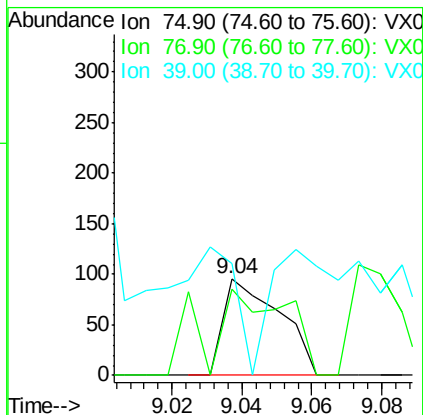
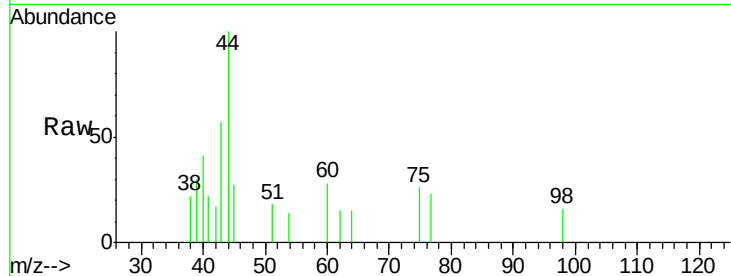


#54

cis-1,3-Dichloropropene
Concen: 3.24 ug/l
RT: 9.04 min Scan# 1386
Delta R.T. -0.01 min
Lab File: VX002810.D
Acq: 22 Jun 2018 01:47

Instrument :
MSVOA_X
ClientSampleId :
PB110441ZHE#13

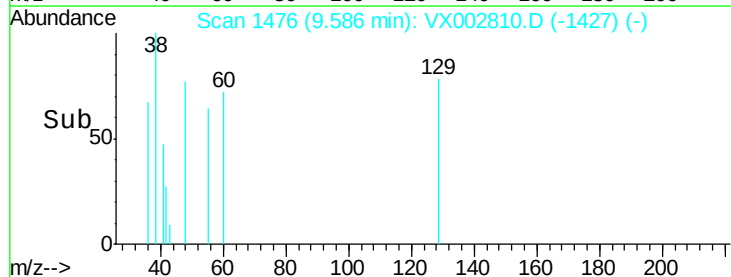
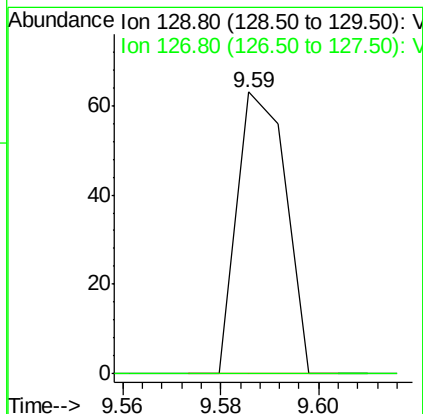
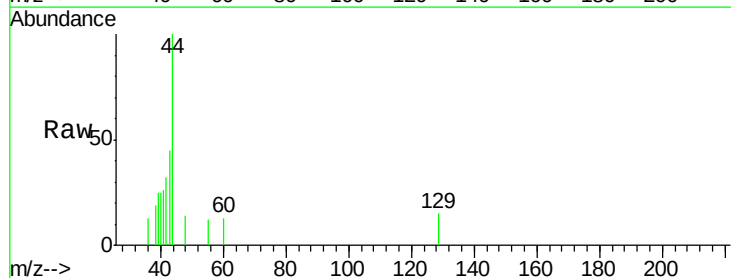
Tot Ion: 75 Resp: 107
Ion Ratio Lower Upper
75 100
77 88.5 24.8 37.2#
39 17.7 42.4 63.6#

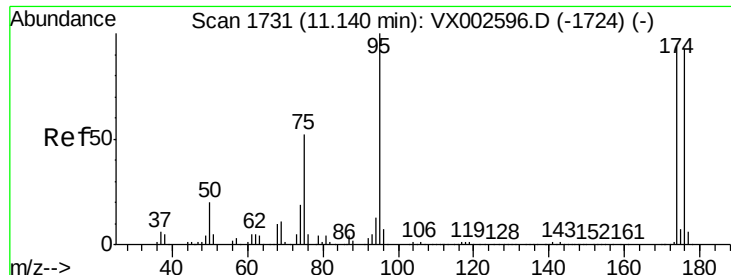


#60

Dibromochloromethane
Concen: 3.77 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. 0.00 min
Lab File: VX002810.D
Acq: 22 Jun 2018 01:47

Tgt Ion: 129 Resp: 44
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

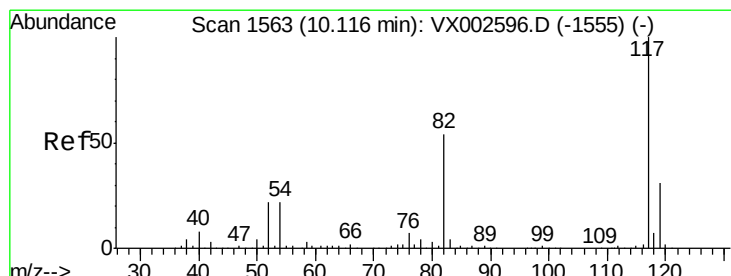
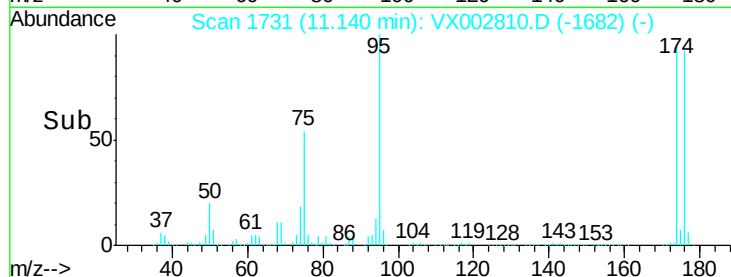
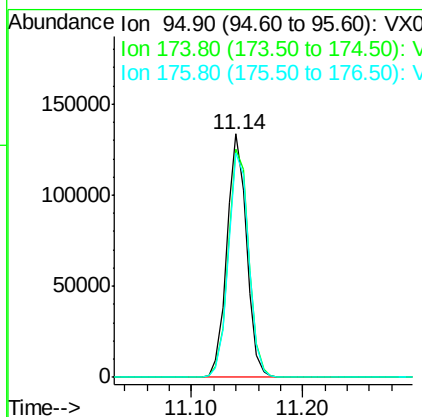
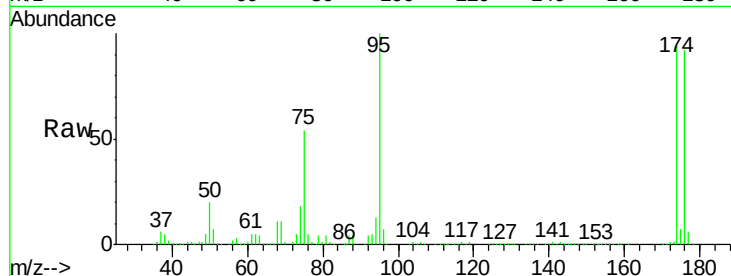




#62
4-Bromofluorobenzene
Concen: 42.88 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002810.D
Acq: 22 Jun 2018 01:47

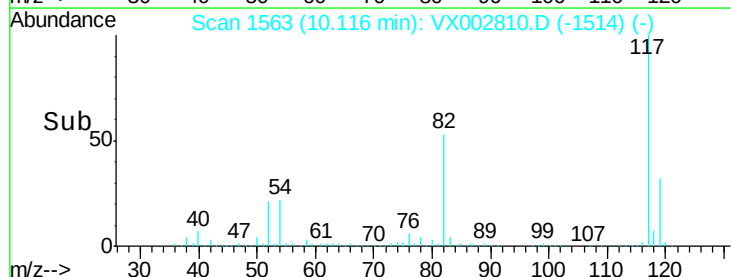
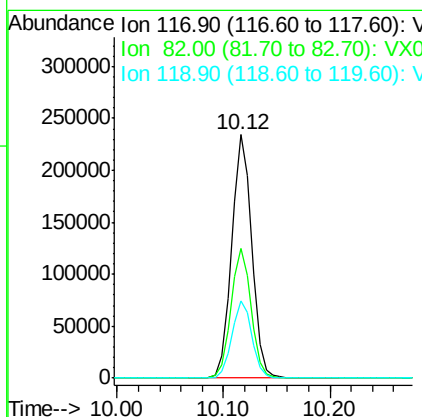
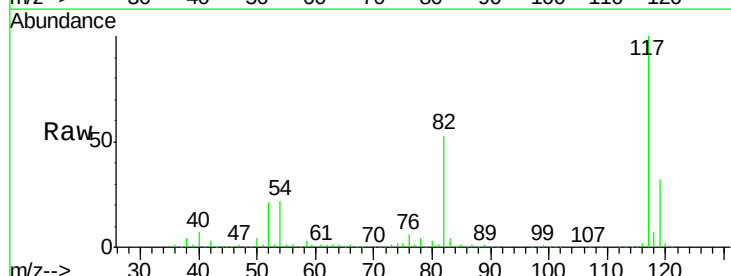
Instrument :
MSVOA_X
ClientSampleId :
PB110441ZHE#13

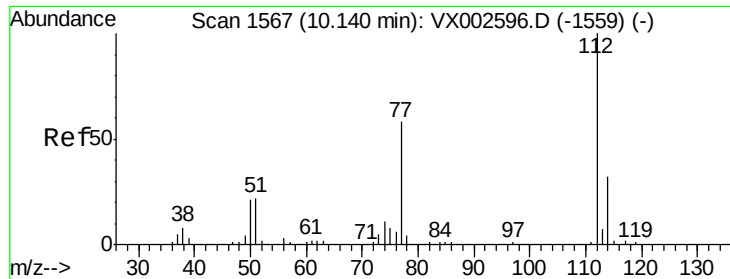
Tot Ion: 95 Resp: 162775
Ion Ratio Lower Upper
95 100
174 98.0 0.0 187.4
176 95.8 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002810.D
Acq: 22 Jun 2018 01:47

Tgt Ion: 117 Resp: 310606
Ion Ratio Lower Upper
117 100
82 53.5 45.0 67.4
119 31.8 25.8 38.6

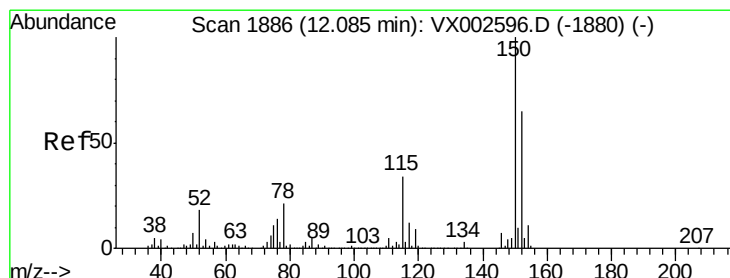
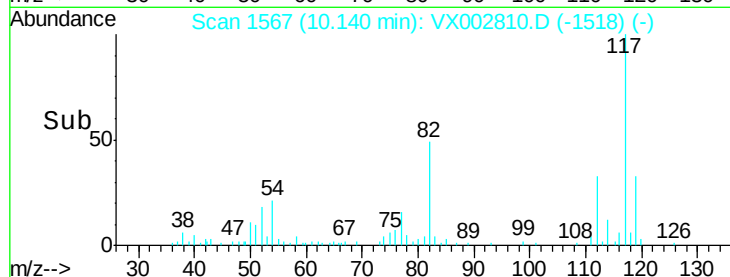
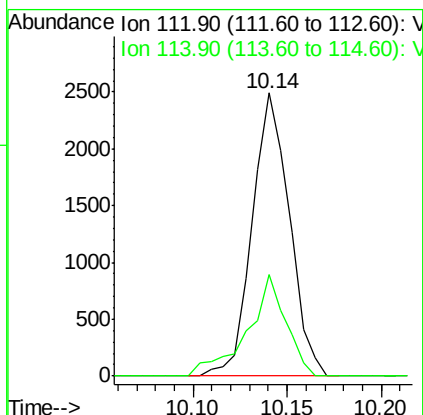
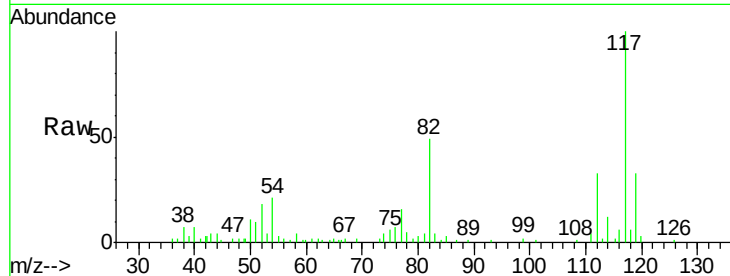




#65
Chlorobenzene
Concen: 0.45 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX002810.D
Acq: 22 Jun 2018 01:47

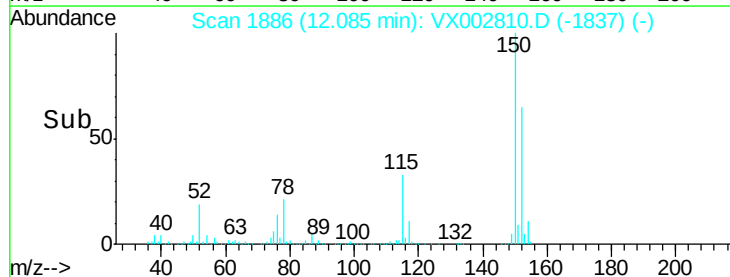
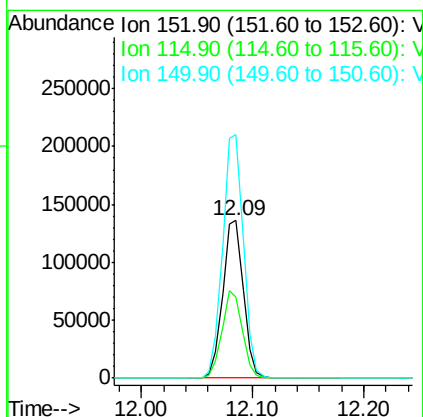
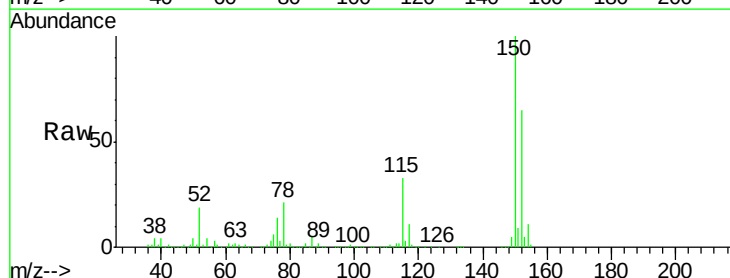
Instrument :
MSVOA_X
ClientSampleId :
PB110441ZHE#13

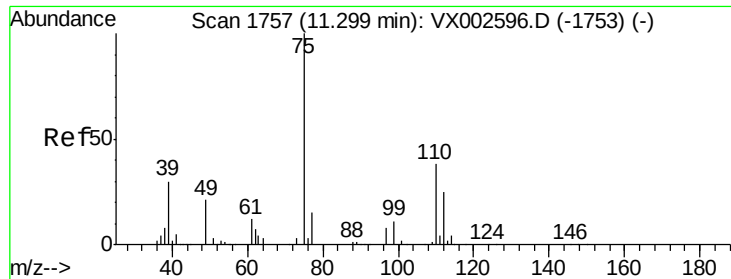
Tot Ion:112 Resp: 3410
Ion Ratio Lower Upper
112 100
114 35.9 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX002810.D
Acq: 22 Jun 2018 01:47

Tgt Ion:152 Resp: 173964
Ion Ratio Lower Upper
152 100
115 54.2 40.1 120.2
150 155.8 0.0 347.2

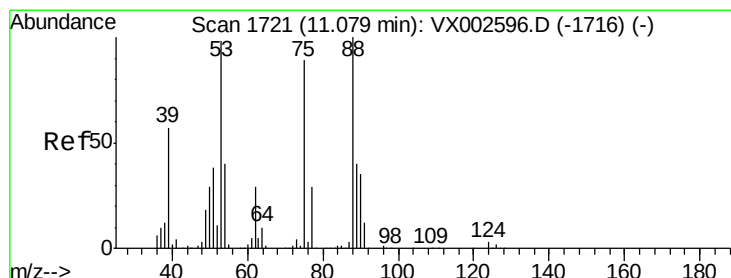
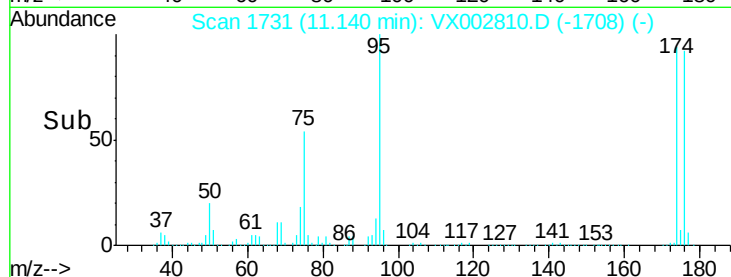
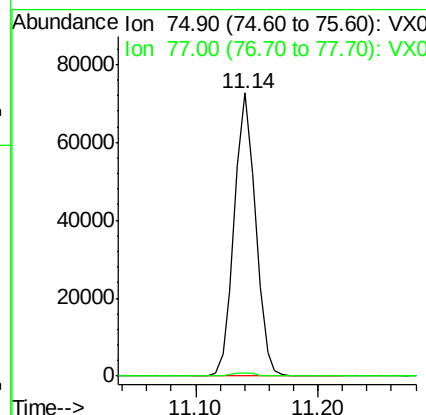
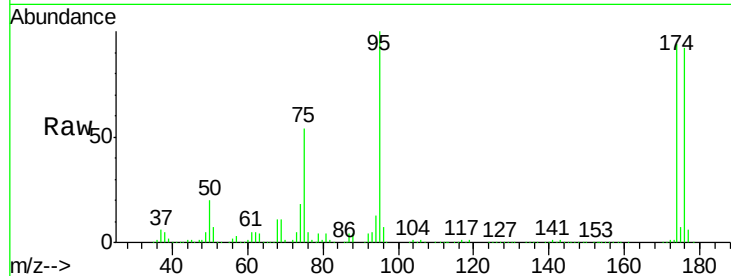




#76
 1,2,3-Trichloropropane
 Concen: 26.66 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002810.D
 Acq: 22 Jun 2018 01:47

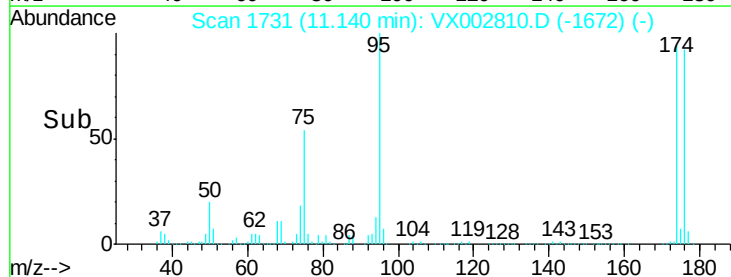
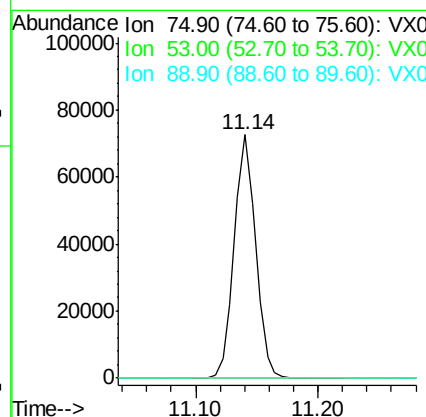
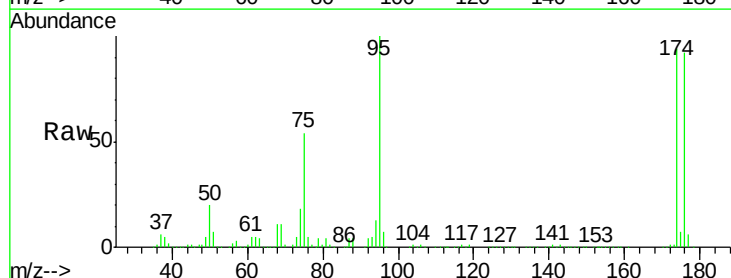
Instrument :
 MSVOA_X
 ClientSampleId :
 PB110441ZHE#13

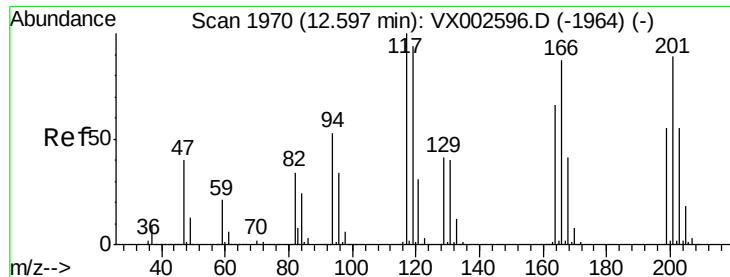
Tot Ion: 75 Resp: 87500
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 82.34 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002810.D
 Acq: 22 Jun 2018 01:47

Tgt Ion: 75 Resp: 87500
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#





#90

Hexachloroethane

Concen: 2.66 ug/l

RT: 12.39 min Scan# 1936

Delta R.T. -0.21 min

Lab File: VX002810.D

Acq: 22 Jun 2018 01:47

Instrument :

MSVOA_X

ClientSampleId :

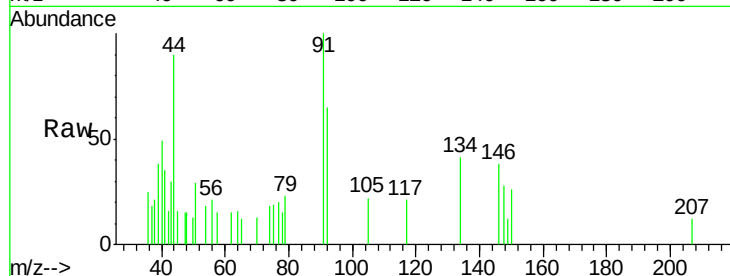
PB110441ZHE#13

Tot Ion:117 Resp: 59

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#

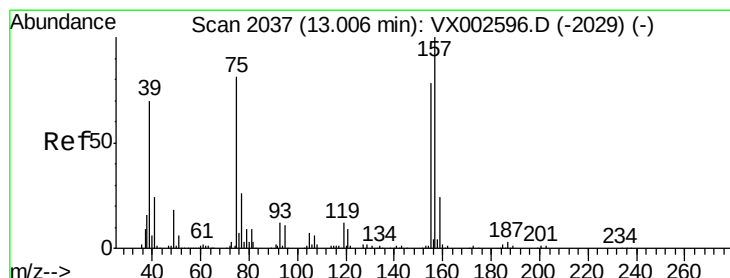
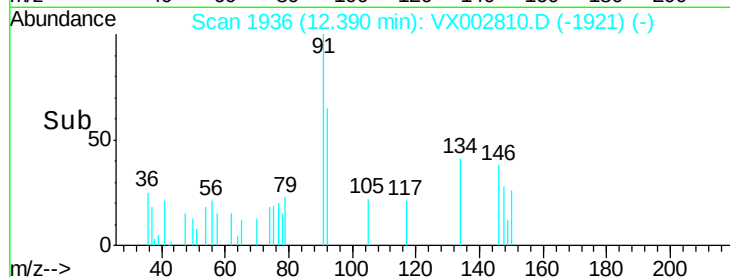


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.39

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.49 ug/l

RT: 12.99 min Scan# 2034

Delta R.T. -0.02 min

Lab File: VX002810.D

Acq: 22 Jun 2018 01:47

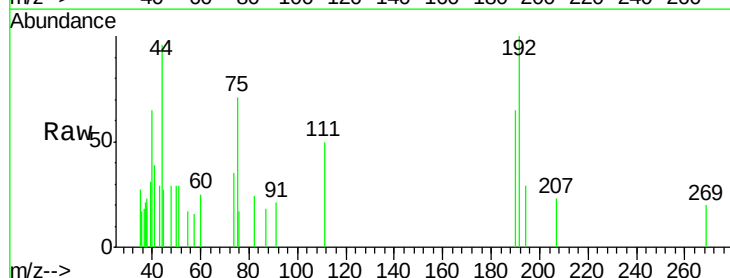
Tgt Ion: 75 Resp: 352

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

12.99

Time-->

