

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010920\
 Data File : VX014507.D
 Acq On : 09 Jan 2020 19:20
 Operator : JC/SP
 Sample : PB125963TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB125963TB

Quant Time: Jan 10 06:50:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	508166	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	789809	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	726491	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	337249	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	279052	49.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.38%	
35) Dibromofluoromethane	5.49	113	235161	49.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.38%	
50) Toluene-d8	8.71	98	941086	50.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.44%	
62) 4-Bromofluorobenzene	11.13	95	325693	47.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.64%	

Target Compounds

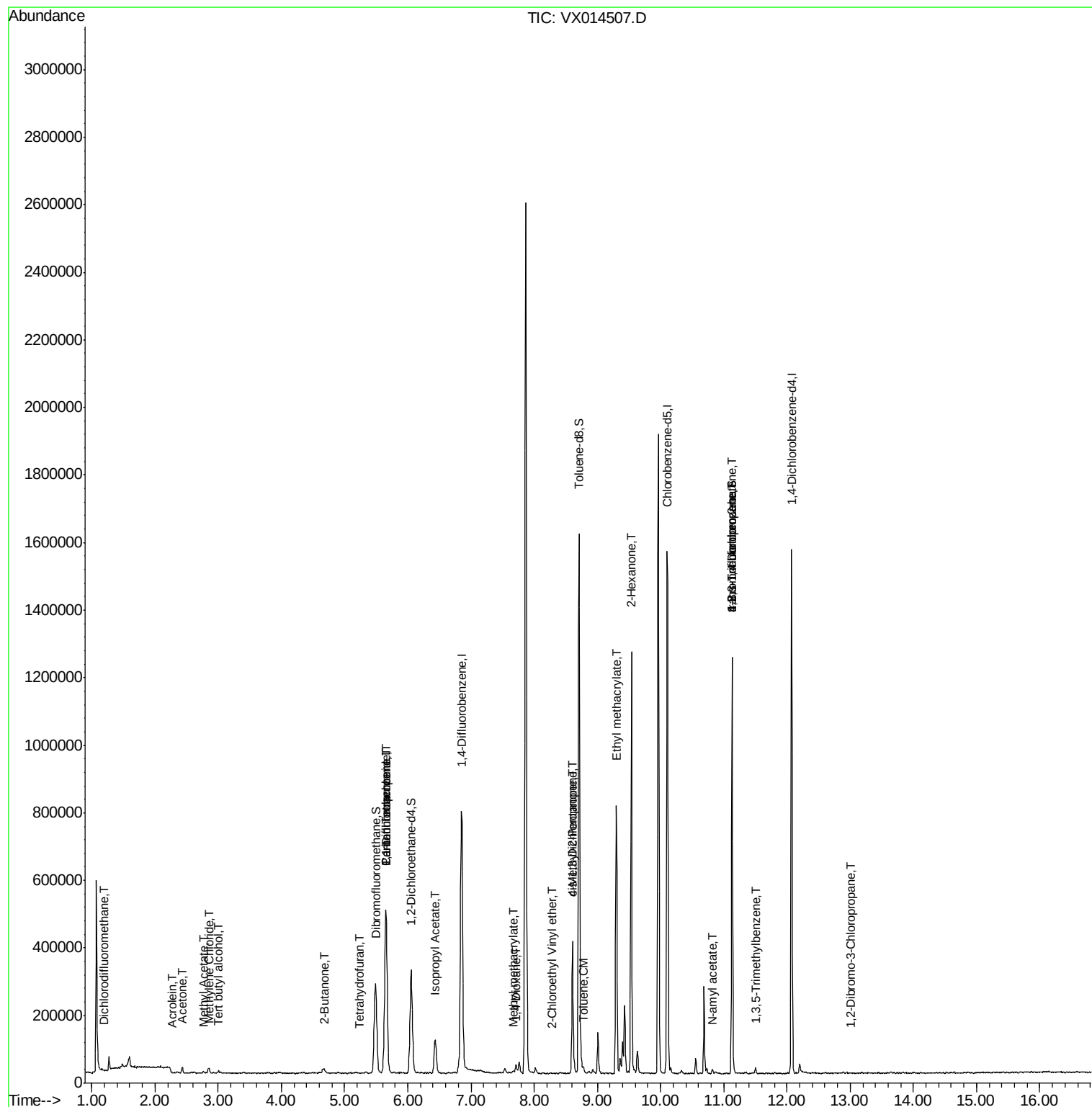
					Qvalue	
2) Dichlorodifluoromethane	1.20	85	236	0.290	ug/l #	42
6) Chloroethane	1.79	64	4294	Below Cal	#	57
11) Tert butyl alcohol	3.01	59	3707	3.130	ug/l #	77
13) Acrolein	2.28	56	398	0.419	ug/l #	60
16) Acetone	2.43	43	19671	2.784	ug/l	94
18) Methyl Acetate	2.76	43	6521	0.800	ug/l #	89
20) Methylene Chloride	2.86	84	8999	1.577	ug/l	84
25) 2-Butanone	4.67	43	8669	2.046	ug/l #	88
29) Tetrahydrofuran	5.25	42	504	0.201	ug/l	88
36) 1,1-Dichloropropene	5.65	75	34309	4.619	ug/l #	50
38) Carbon Tetrachloride	5.65	117	45093	6.597	ug/l #	18
43) Isopropyl Acetate	6.43	43	139646	10.715	ug/l	99
48) Methyl methacrylate	7.67	41	8298	1.329	ug/l #	18
49) 1,4-Dioxane	7.72	88	286	2.162	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	135800	17.099	ug/l #	49
52) Toluene	8.78	92	5441	0.386	ug/l	81
54) cis-1,3-Dichloropropene	8.61	75	63777	7.105	ug/l #	57
56) Ethyl methacrylate	9.30	69	1942	0.224	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.29	63	744	0.252	ug/l #	77
59) 2-Hexanone	9.53	43	150718	23.985	ug/l #	49
74) N-amyl acetate	10.82	43	6614	0.633	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	161907	23.203	ug/l #	34
80) 1,3,5-Trimethylbenzene	11.50	105	8557	0.435	ug/l	90
81) trans-1,4-Dichloro-2-buten	11.13	75	161907	61.345	ug/l #	12
88) 1,4-Dichlorobenzene	12.03	146	758	Below Cal		92
92) 1,2-Dibromo-3-Chloropropan	13.01	75	496	0.290	ug/l #	55
93) 1,2,4-Trichlorobenzene	13.64	180	469	Below Cal	#	24
96) 1,2,3-Trichlorobenzene	14.02	180	576	Below Cal	#	59

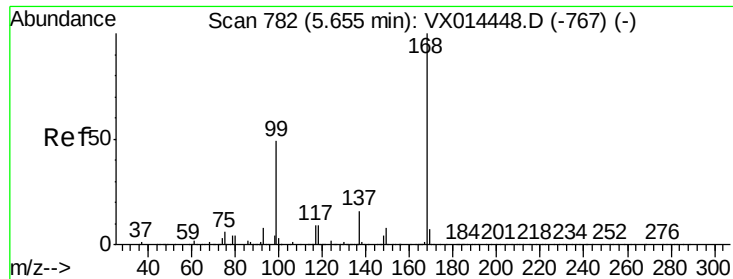
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010920\
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Quant Time: Jan 10 06:50:46 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 07 15:54:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

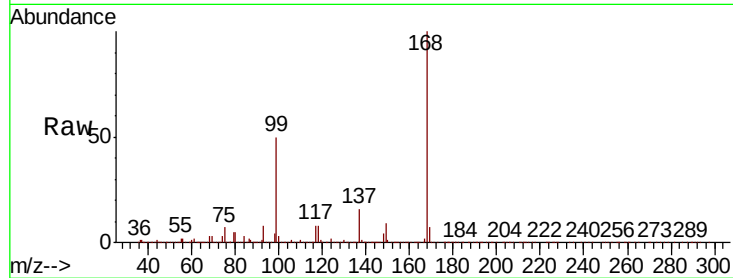
PB125963TB

Tot Ion:168 Resp: 508166

Ion Ratio Lower Upper

168 100

99 49.8 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

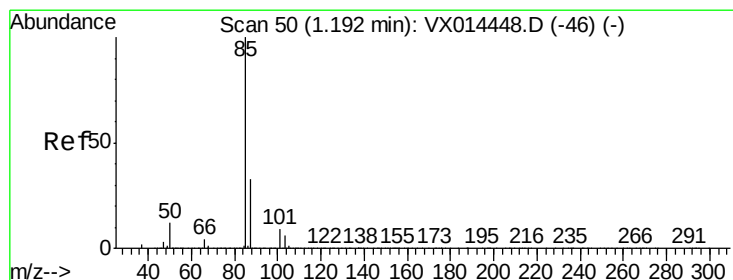
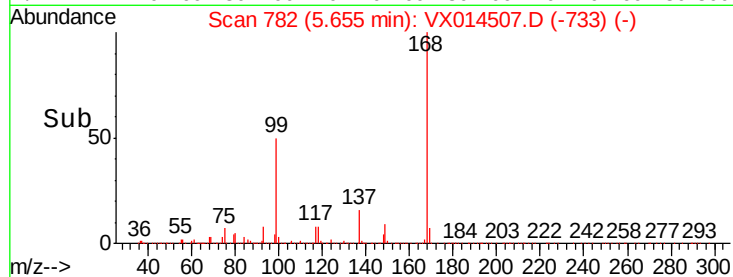
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.290 ug/l

RT: 1.20 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX014507.D

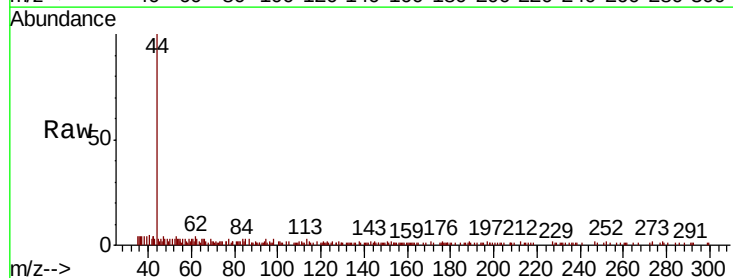
Acq: 09 Jan 2020 19:20

Tgt Ion: 85 Resp: 236

Ion Ratio Lower Upper

85 100

87 0.0 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

400

300

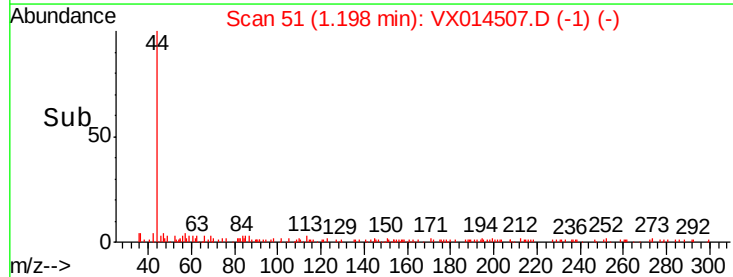
200

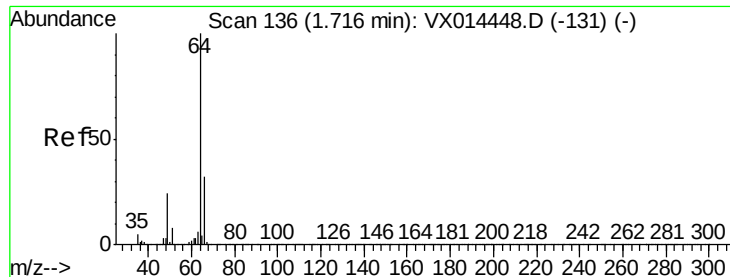
100

0

Time-->

1.18 1.20 1.22





#6

Chloroethane

Concen: Below Cal

RT: 1.79 min Scan# 148

Delta R.T. 0.07 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

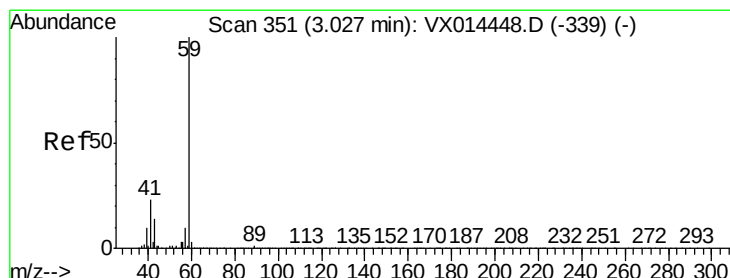
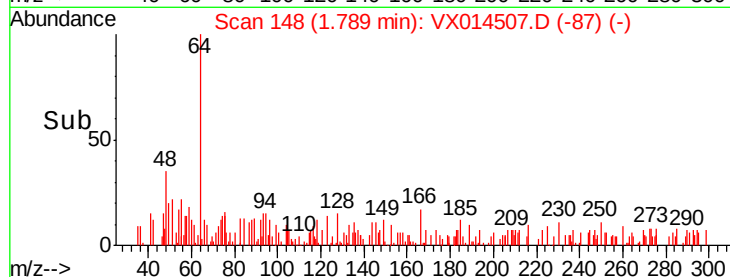
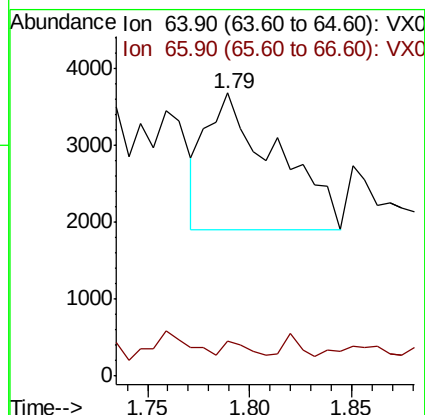
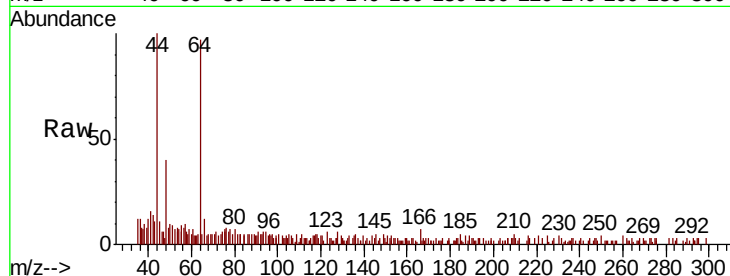
PB125963TB

Tot Ion: 64 Resp: 4294

Ion Ratio Lower Upper

64 100

66 7.6 25.3 37.9#



#11

Tert butyl alcohol

Concen: 3.130 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX014507.D

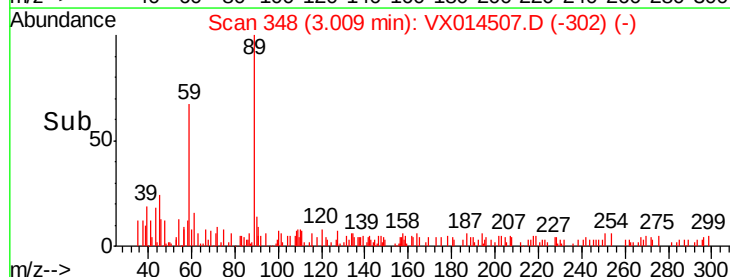
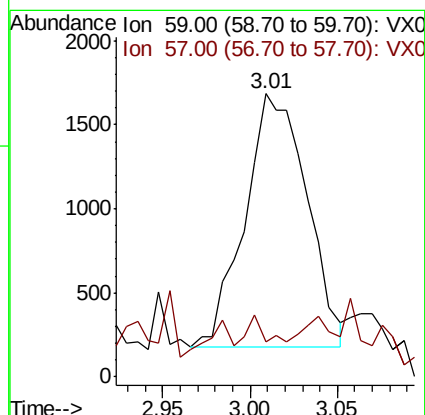
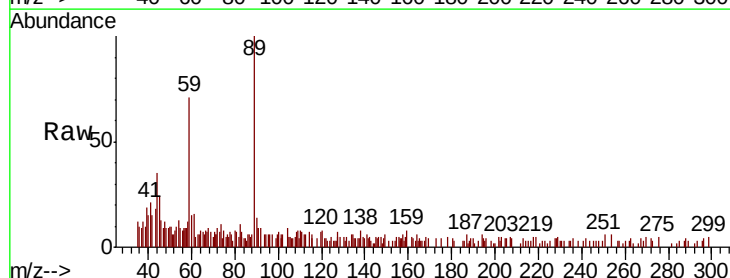
Acq: 09 Jan 2020 19:20

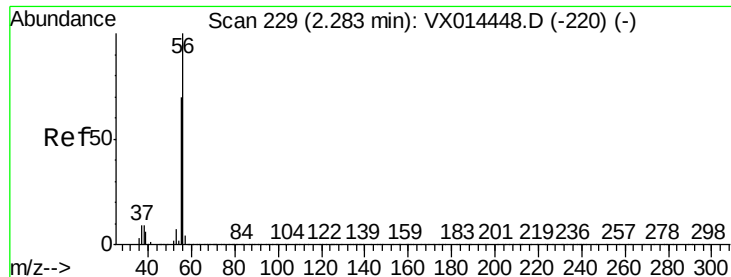
Tgt Ion: 59 Resp: 3707

Ion Ratio Lower Upper

59 100

57 1.9 8.5 12.7#





#13

Acrolein

Concen: 0.419 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

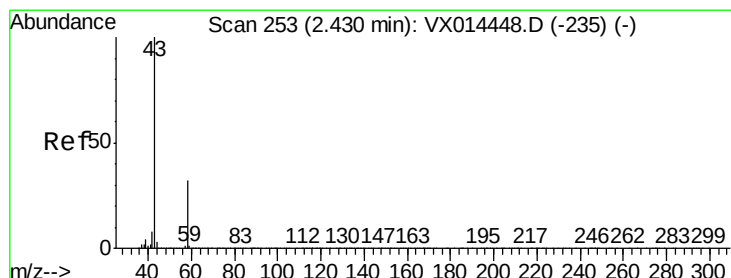
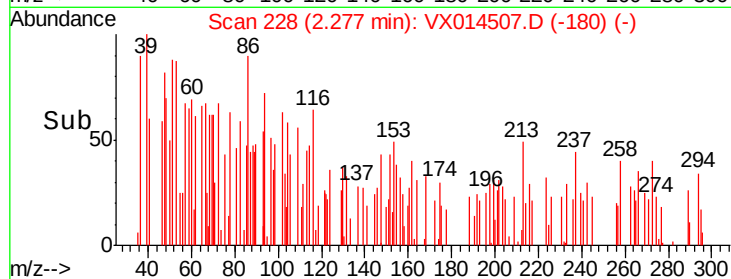
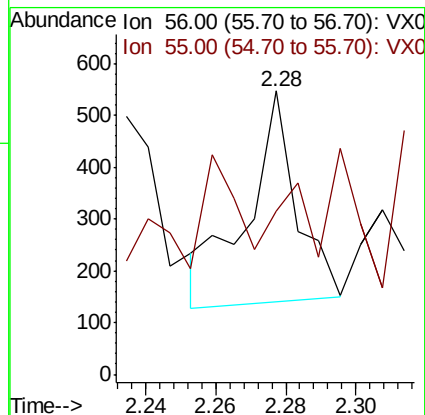
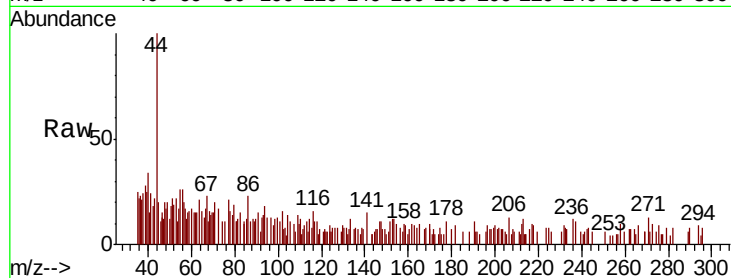
PB125963TB

Tot Ion: 56 Resp: 398

Ion Ratio Lower Upper

56 100

55 36.2 55.0 82.6#



#16

Acetone

Concen: 2.784 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014507.D

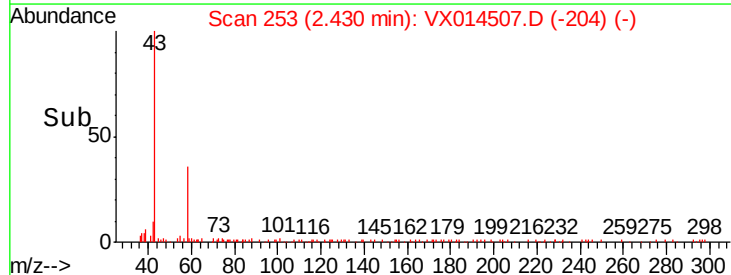
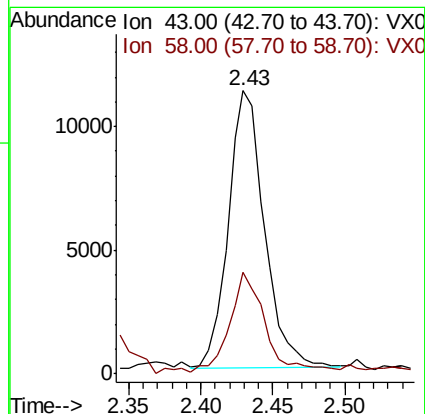
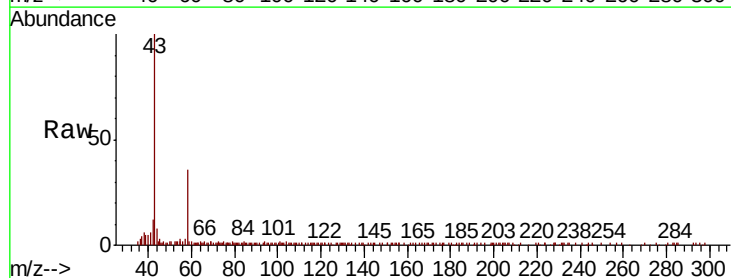
Acq: 09 Jan 2020 19:20

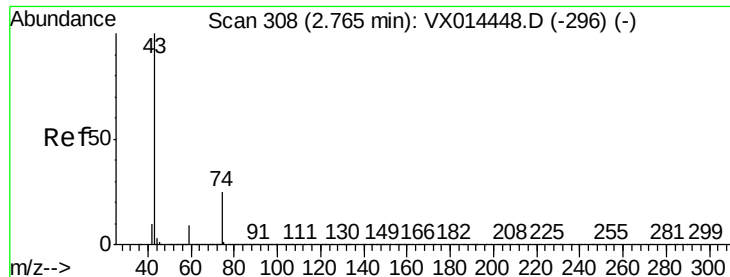
Tgt Ion: 43 Resp: 19671

Ion Ratio Lower Upper

43 100

58 35.0 25.4 38.0

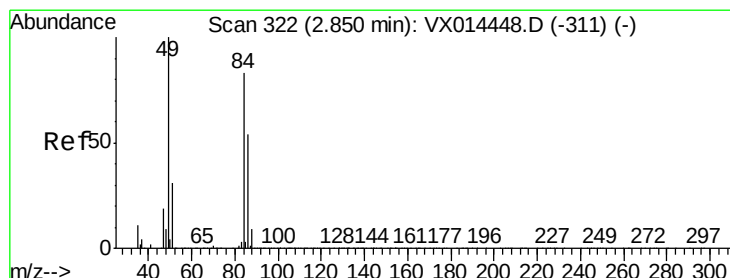
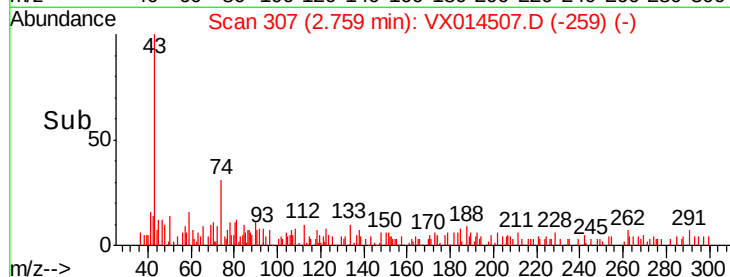
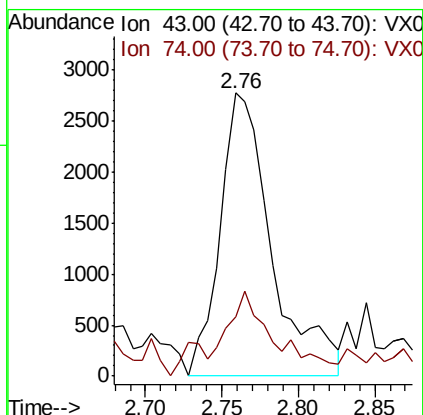
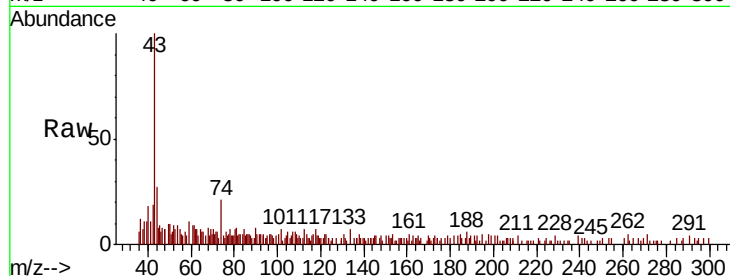




#18
Methvl Acetate
Concen: 0.800 ug/l
RT: 2.76 min Scan# 307
Delta R.T. -0.01 min
Lab File: VX014507.D
Acq: 09 Jan 2020 19:20

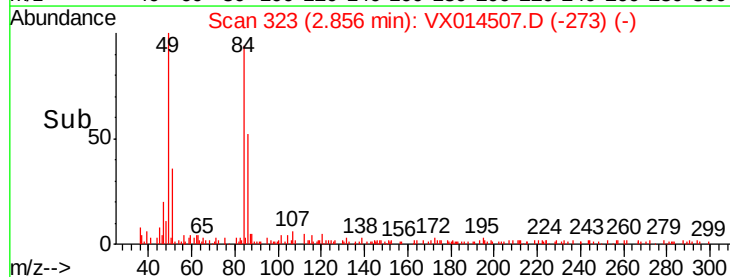
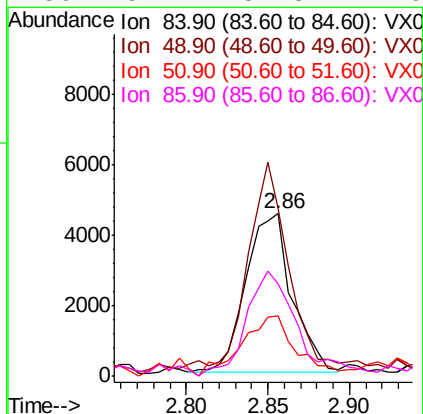
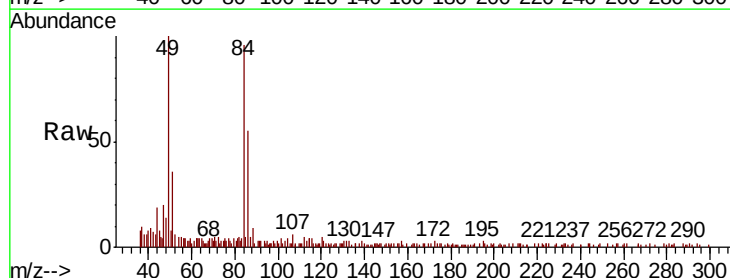
Instrument :
MSVOA_X
ClientSampleId :
PB125963TB

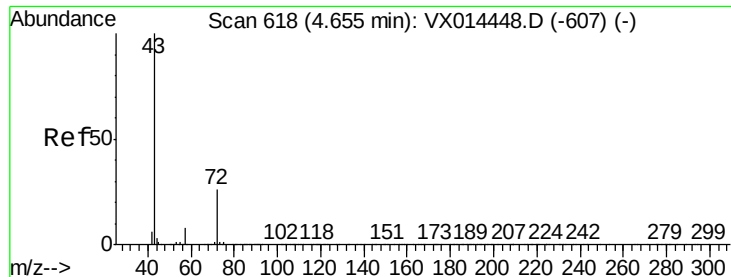
Tot Ion: 43 Resp: 6521
Ion Ratio Lower Upper
43 100
74 18.9 19.4 29.2#



#20
Methylene Chloride
Concen: 1.577 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX014507.D
Acq: 09 Jan 2020 19:20

Tgt Ion: 84 Resp: 8999
Ion Ratio Lower Upper
84 100
49 97.8 95.8 143.8
51 34.7 30.2 45.4
86 52.2 51.8 77.6





#25

2-Butanone

Concen: 2.046 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.02 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

Instrument :

MSVOA_X

ClientSampled :

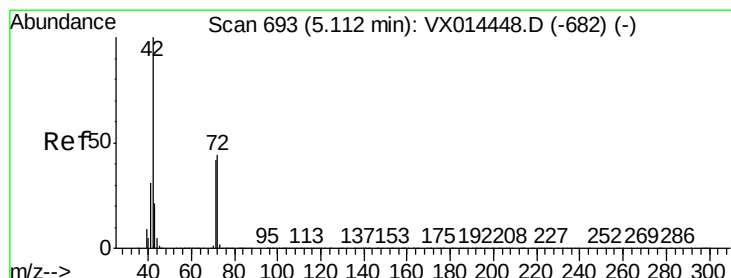
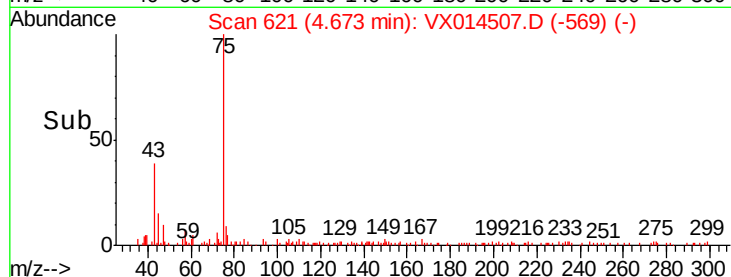
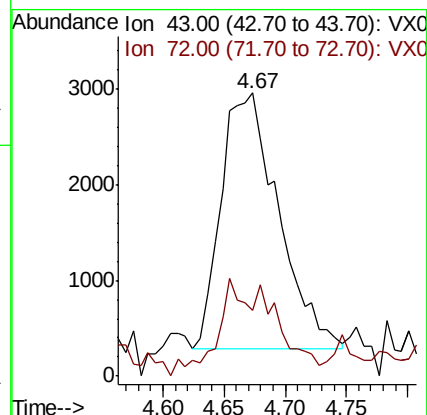
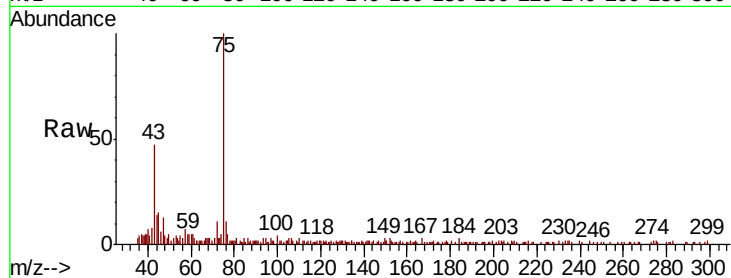
PB125963TB

Tot Ion: 43 Resp: 8669

Ion Ratio Lower Upper

43 100

72 19.6 20.6 31.0#



#29

Tetrahydrofuran

Concen: 0.201 ug/l

RT: 5.25 min Scan# 715

Delta R.T. 0.13 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

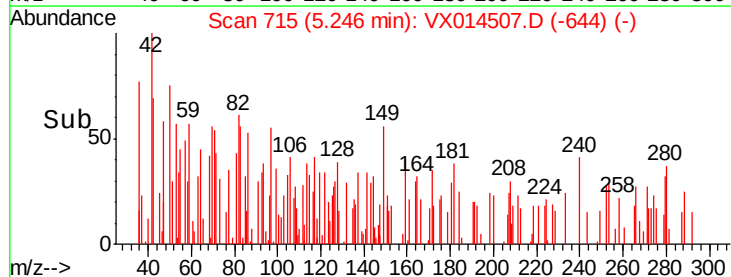
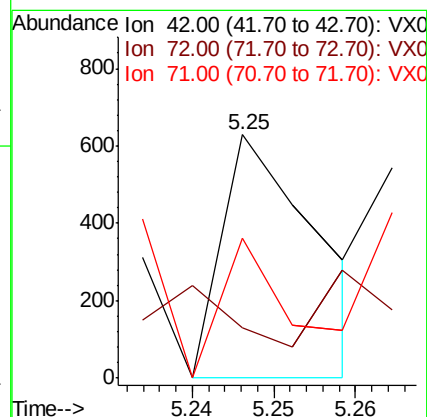
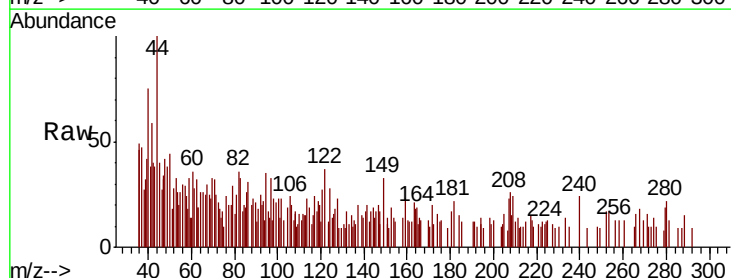
Tgt Ion: 42 Resp: 504

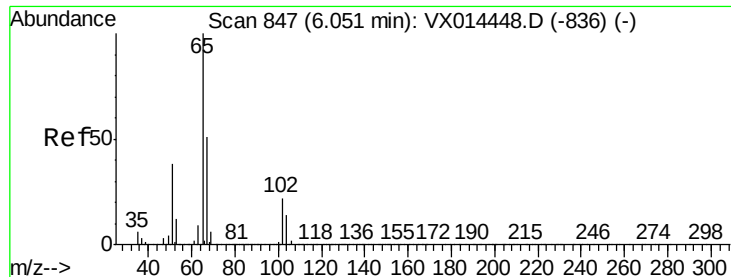
Ion Ratio Lower Upper

42 100

72 36.5 36.2 54.4

71 35.5 34.1 51.1

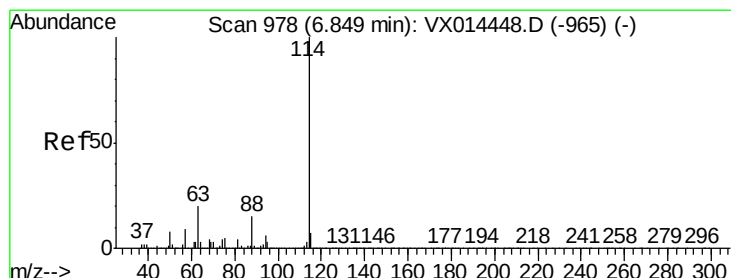
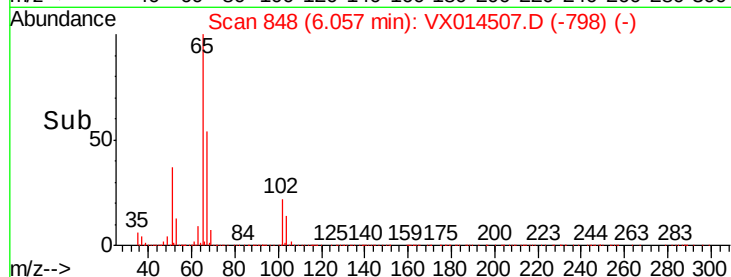
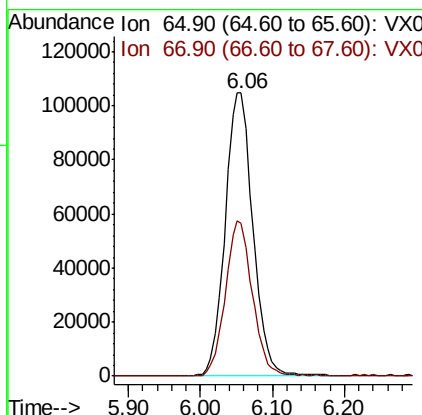
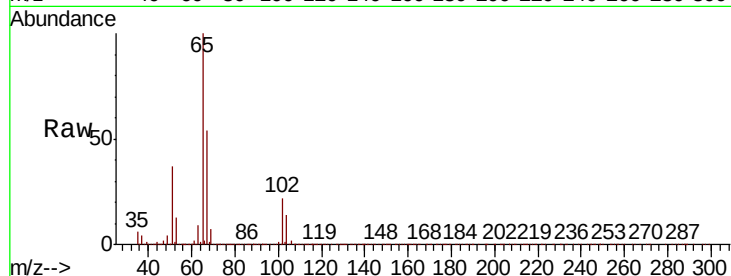




#33
 1,2-Dichloroethane-d4
 Concen: 49.191 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX014507.D
 Acq: 09 Jan 2020 19:20

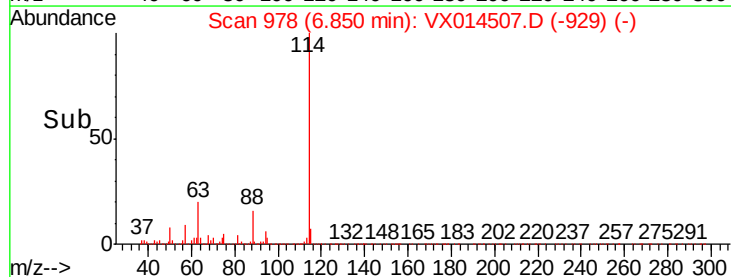
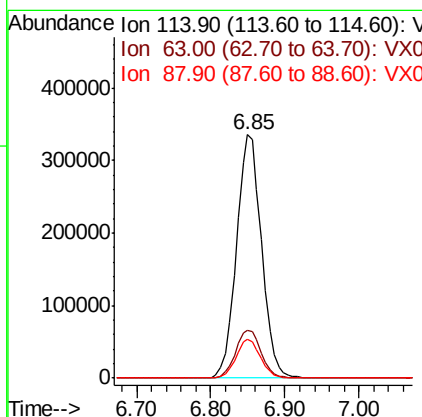
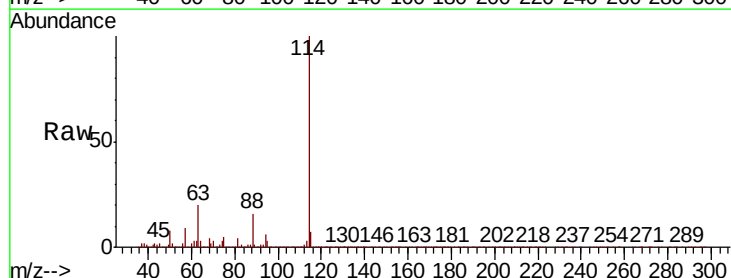
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 MSVOA_X
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 PB125963TB

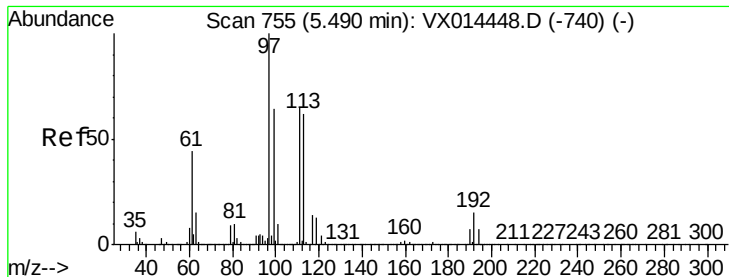
Tot Ion: 65 Resp: 279052
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014507.D
 Acq: 09 Jan 2020 19:20

Tgt Ion: 114 Resp: 789809
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.6
 88 15.8 0.0 30.8





#35

Dibromofluoromethane

Concen: 49.186 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

Instrument :

MSVOA_X

ClientSampled :

PB125963TB

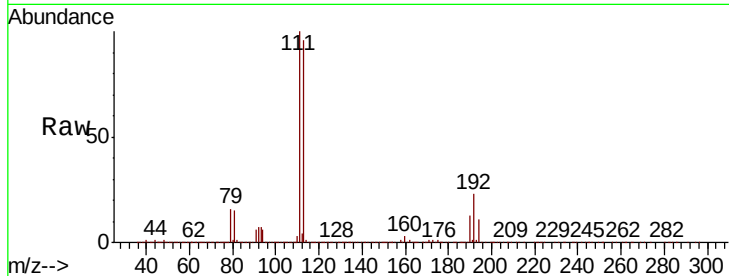
Tot Ion:113 Resp: 235161

Ion Ratio Lower Upper

113 100

111 102.4 81.5 122.3

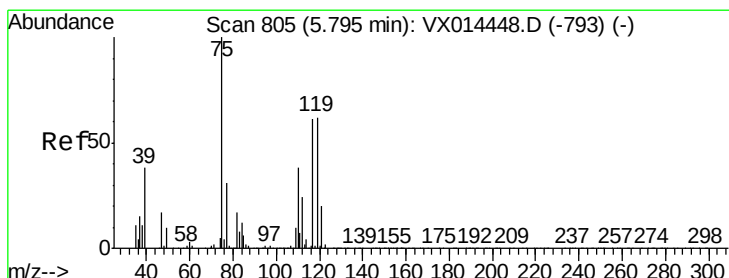
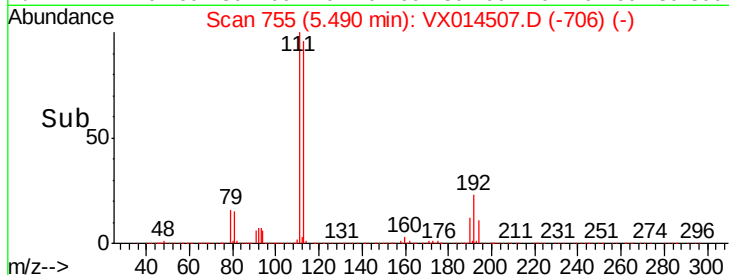
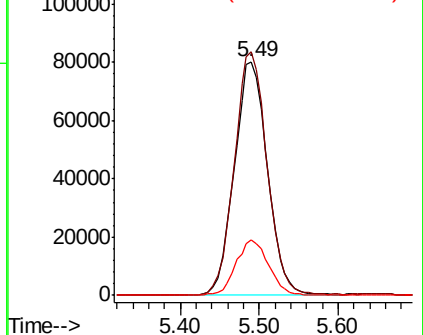
192 23.4 19.2 28.8



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: 4.619 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.14 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

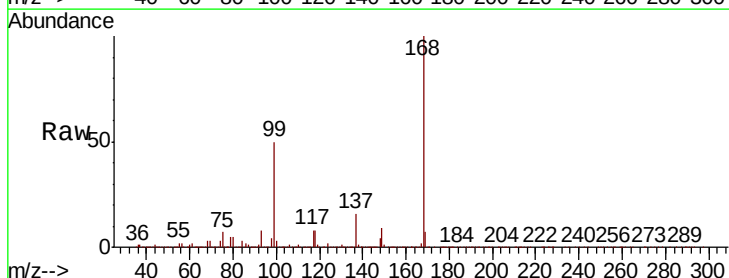
Tgt Ion: 75 Resp: 34309

Ion Ratio Lower Upper

75 100

110 9.2 18.6 55.8#

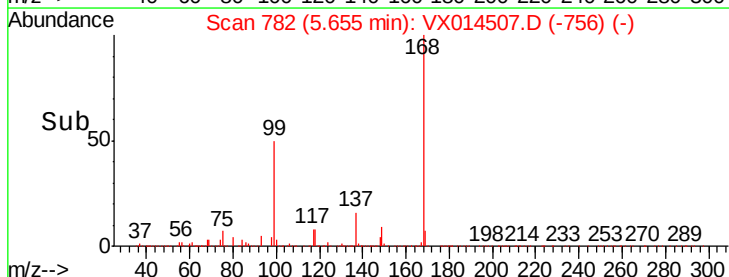
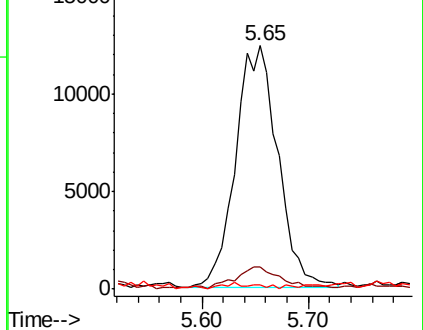
77 0.8 24.5 36.7#

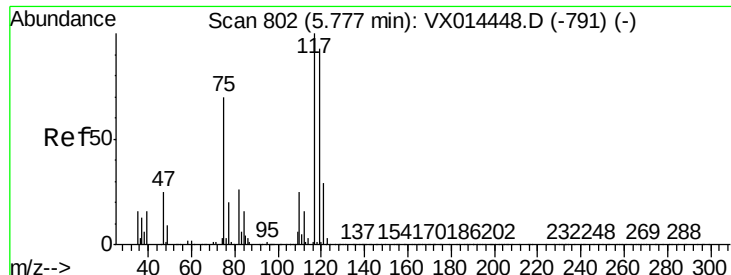


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.597 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

PB125963TB

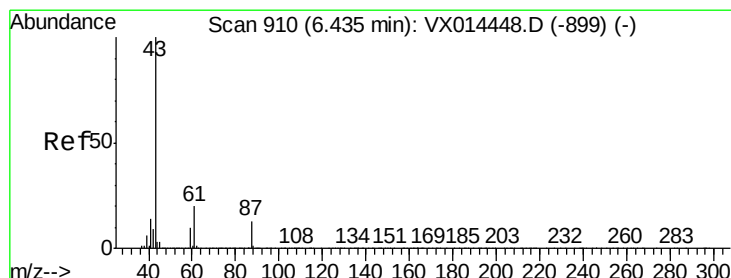
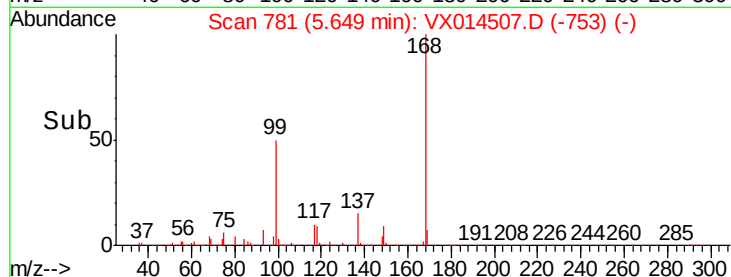
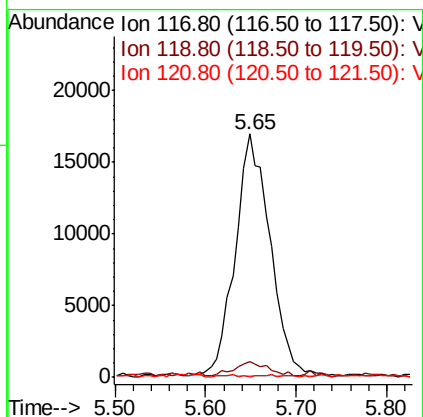
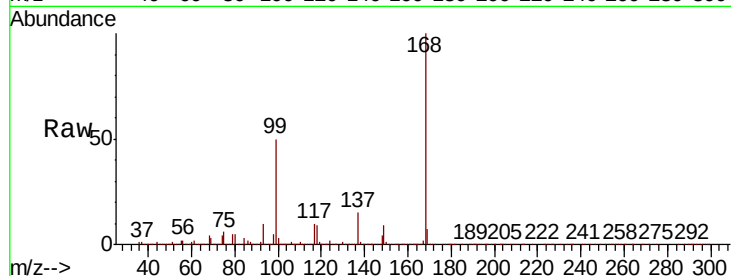
Tot Ion:117 Resp: 45093

Ion Ratio Lower Upper

117 100

119 5.7 73.8 110.8#

121 0.0 23.4 35.0#



#43

Isopropyl Acetate

Concen: 10.715 ug/l

RT: 6.43 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

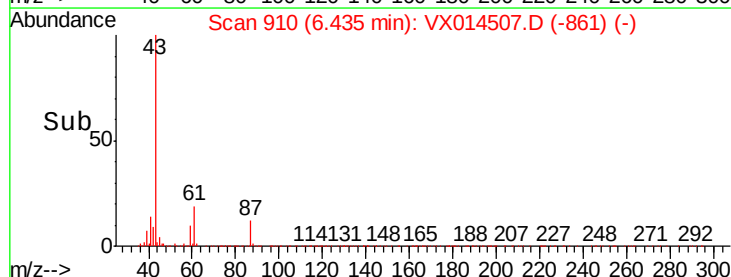
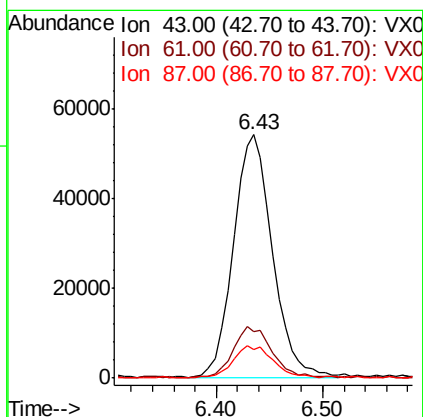
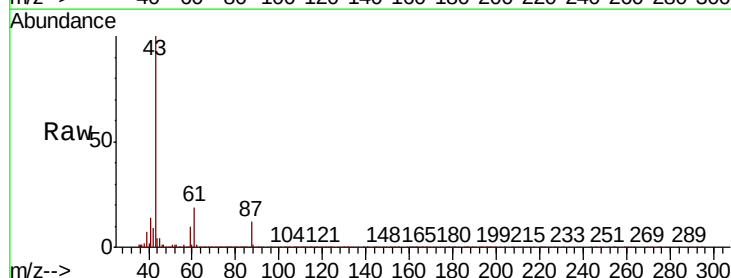
Tgt Ion: 43 Resp: 139646

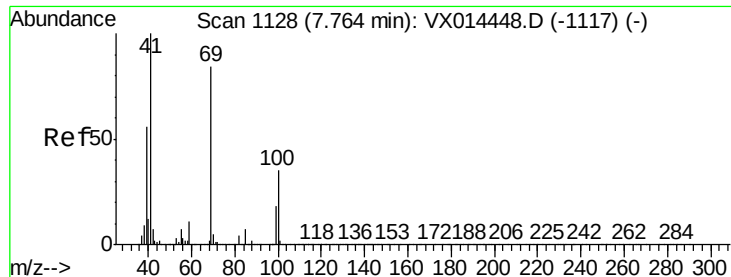
Ion Ratio Lower Upper

43 100

61 20.4 16.6 24.8

87 13.9 10.8 16.2

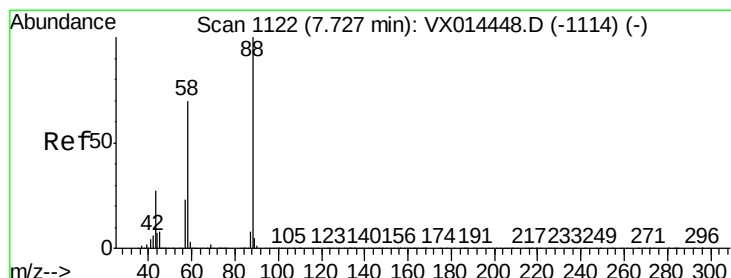
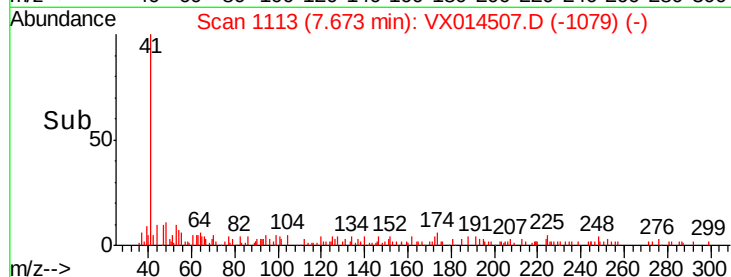
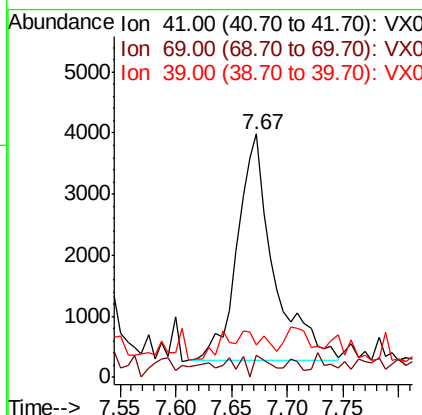
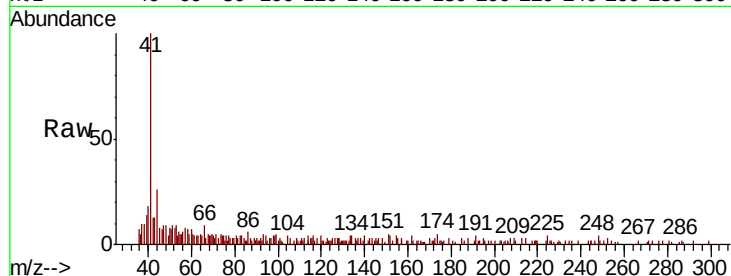




#48
Methvl methacrylate
Concen: 1.329 ug/l
RT: 7.67 min Scan# 1113
Delta R.T. -0.09 min
Lab File: VX014507.D
Acq: 09 Jan 2020 19:20

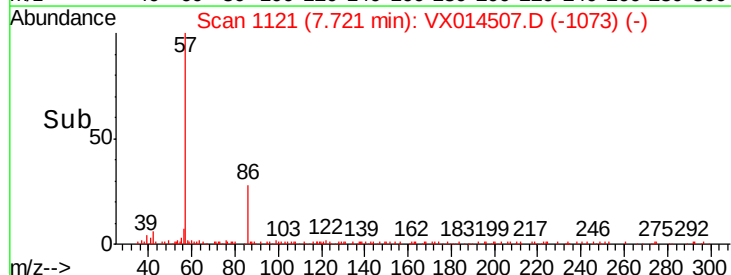
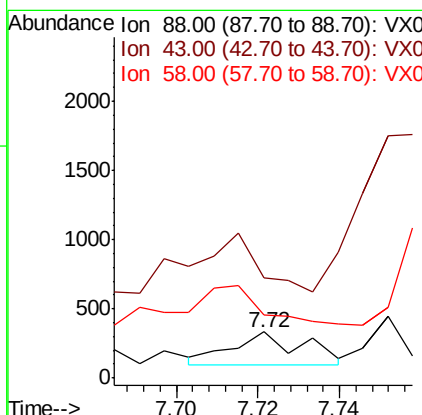
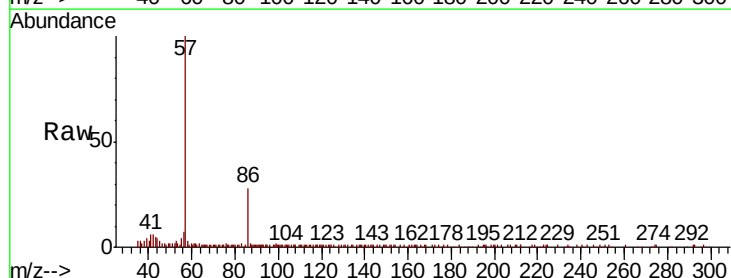
Instrument :
MSVOA_X
ClientSampled :
PB125963TB

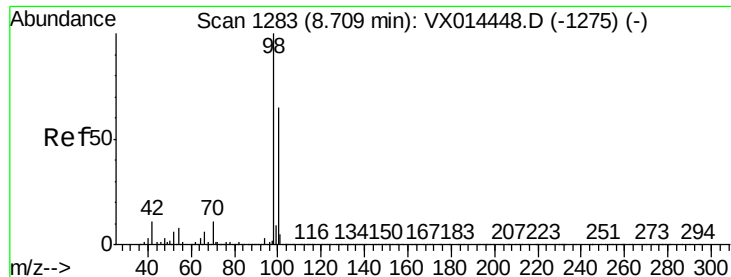
Tot Ion: 41 Resp: 8298
Ion Ratio Lower Upper
41 100
69 4.4 65.5 98.3#
39 0.0 43.9 65.9#



#49
1,4-Dioxane
Concen: 2.162 ug/l
RT: 7.72 min Scan# 1121
Delta R.T. -0.01 min
Lab File: VX014507.D
Acq: 09 Jan 2020 19:20

Tgt Ion: 88 Resp: 286
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 513.6 57.1 85.7#





#50

Toluene-d8

Concen: 50.722 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

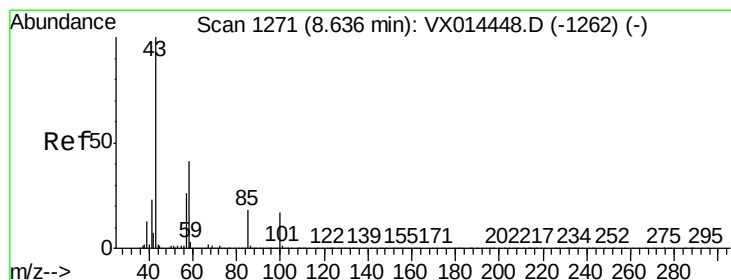
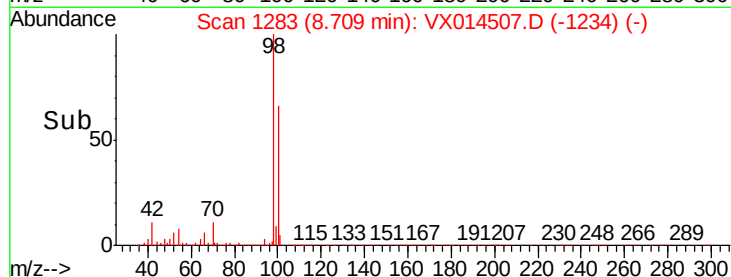
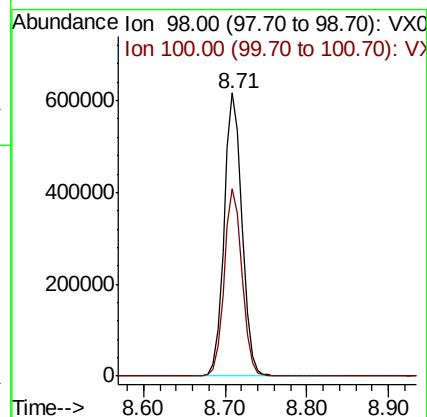
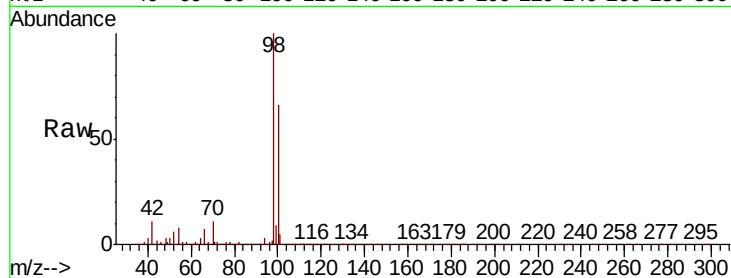
PB125963TB

Tot Ion: 98 Resp: 941086

Ion Ratio Lower Upper

98 100

100 65.8 53.2 79.8



#51

4-Methyl-2-Pentanone

Concen: 17.099 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014507.D

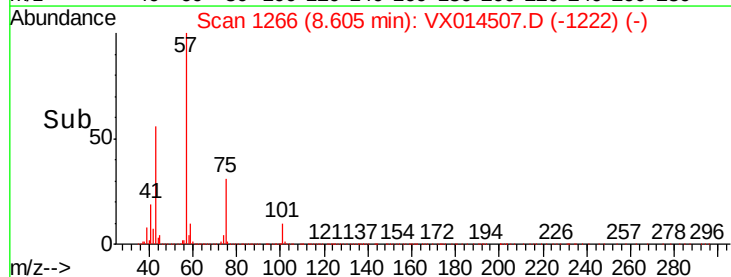
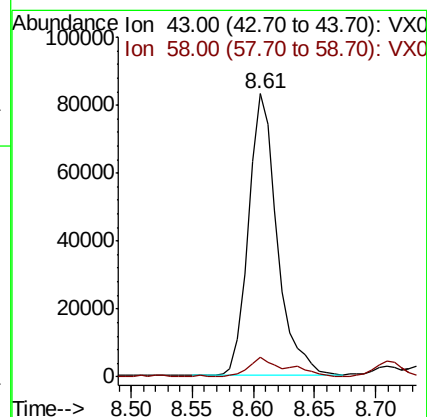
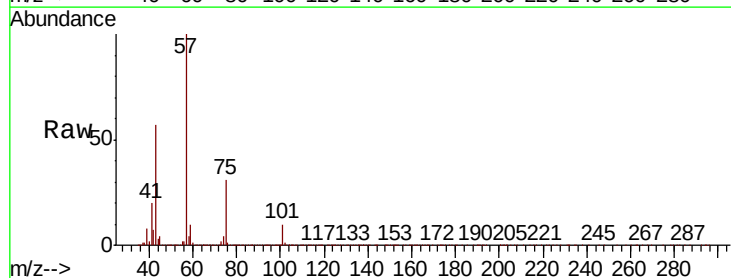
Acq: 09 Jan 2020 19:20

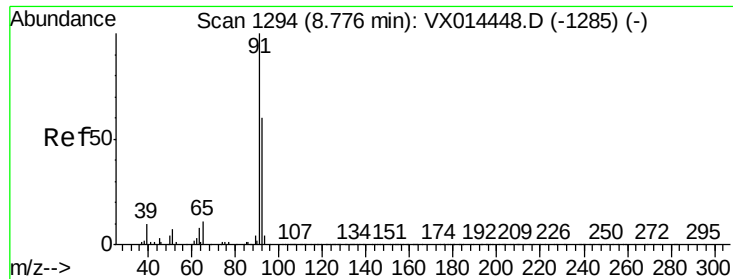
Tgt Ion: 43 Resp: 135800

Ion Ratio Lower Upper

43 100

58 9.1 32.4 48.6#





#52

Toluene

Concen: 0.386 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

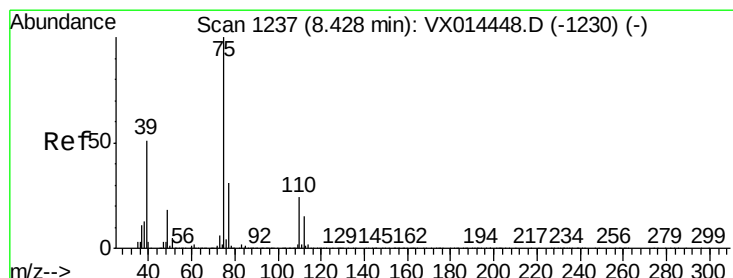
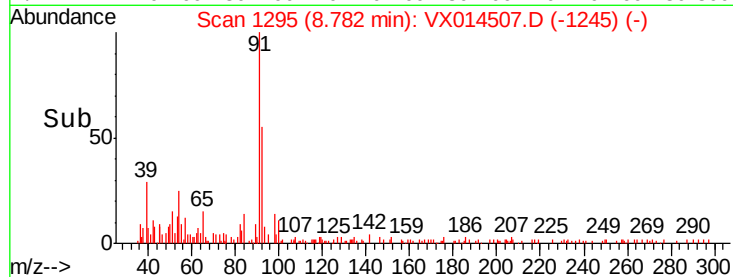
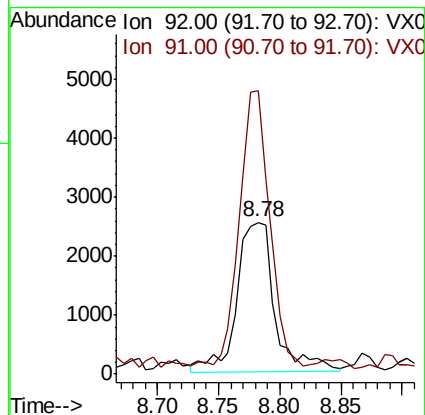
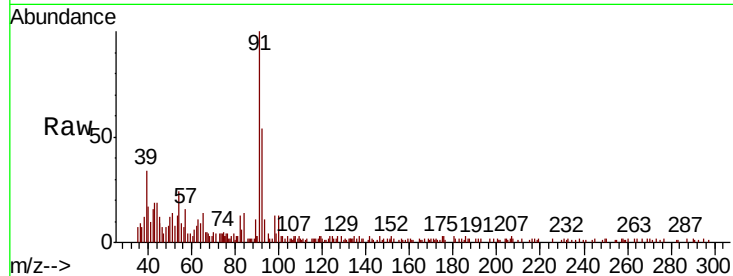
PB125963TB

Tot Ion: 92 Resp: 5441

Ion Ratio Lower Upper

92 100

91 144.2 135.7 203.5



#54

cis-1,3-Dichloropropene

Concen: 7.105 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. 0.18 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

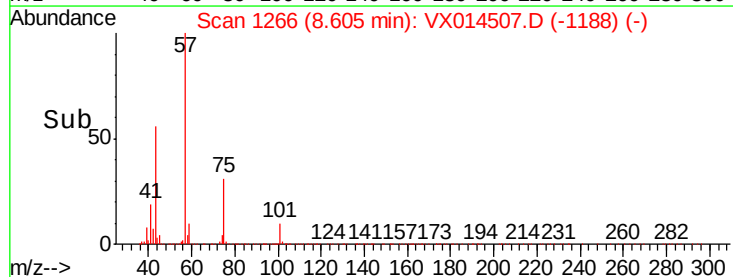
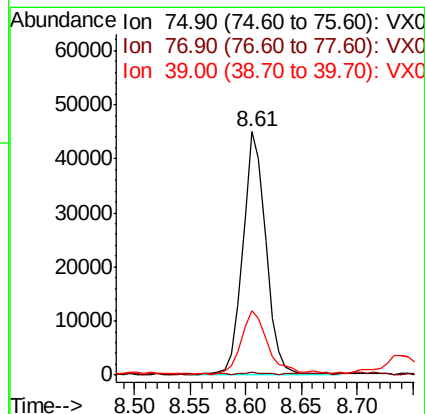
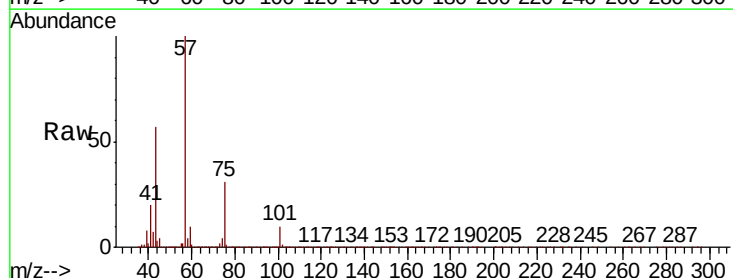
Tgt Ion: 75 Resp: 63777

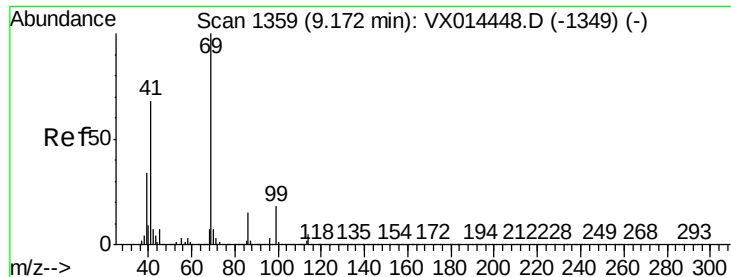
Ion Ratio Lower Upper

75 100

77 0.5 25.0 37.4#

39 26.2 40.7 61.1#





#56

Ethyl methacrylate

Concen: 0.224 ug/l

RT: 9.30 min Scan# 1380

Delta R.T. 0.13 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

Instrument :

MSVOA_X

ClientSampled :

PB125963TB

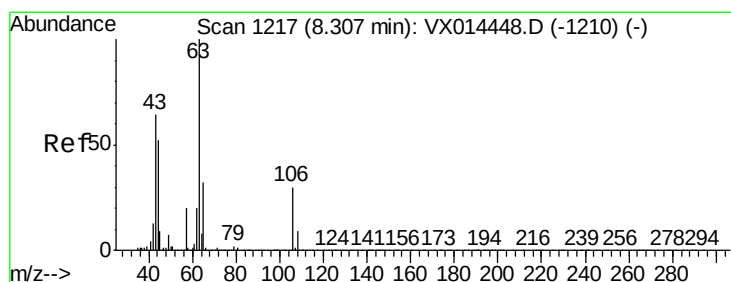
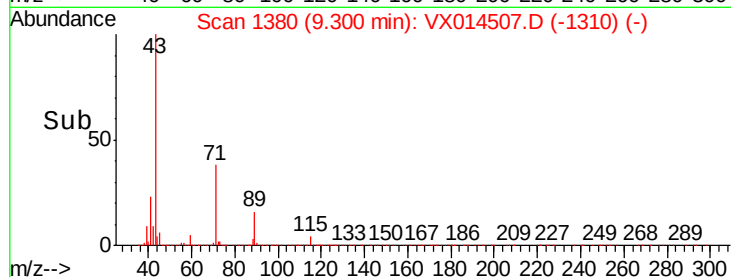
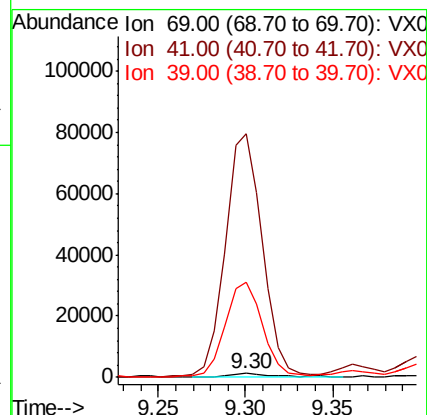
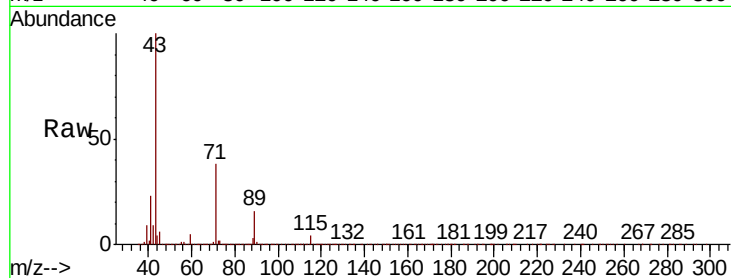
Tot Ion: 69 Resp: 1942

Ion Ratio Lower Upper

69 100

41 5972.2 54.2 81.2#

39 2390.3 28.2 42.2#



#58

2-Chloroethyl Vinyl ether

Concen: 0.252 ug/l

RT: 8.29 min Scan# 1214

Delta R.T. -0.02 min

Lab File: VX014507.D

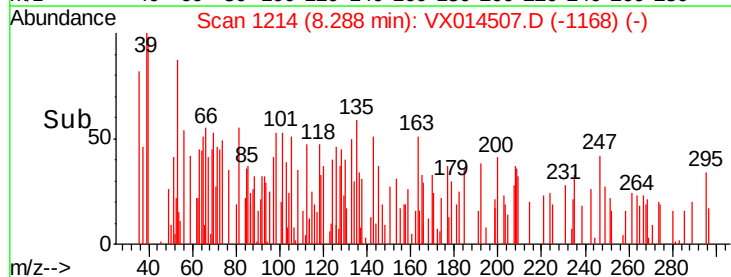
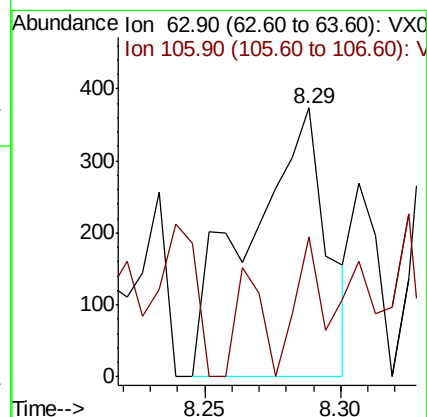
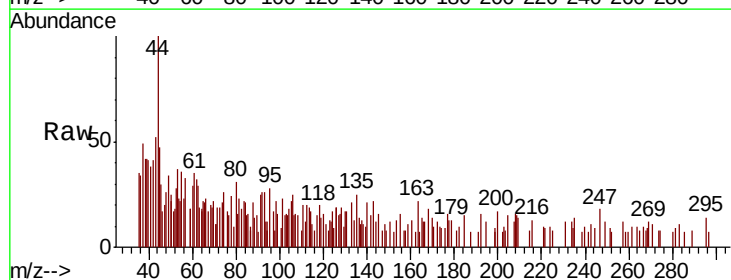
Acq: 09 Jan 2020 19:20

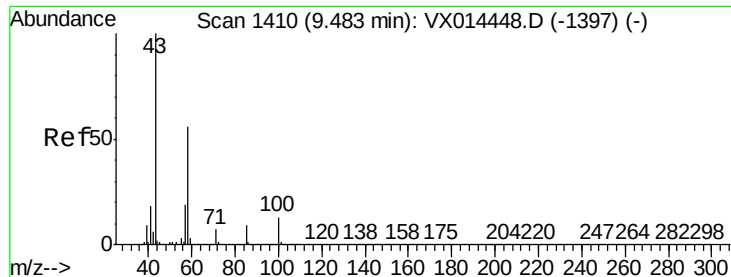
Tgt Ion: 63 Resp: 744

Ion Ratio Lower Upper

63 100

106 17.1 23.6 35.4#





#59

2-Hexanone

Concen: 23.985 ug/l

RT: 9.53 min Scan# 1418

Delta R.T. 0.05 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

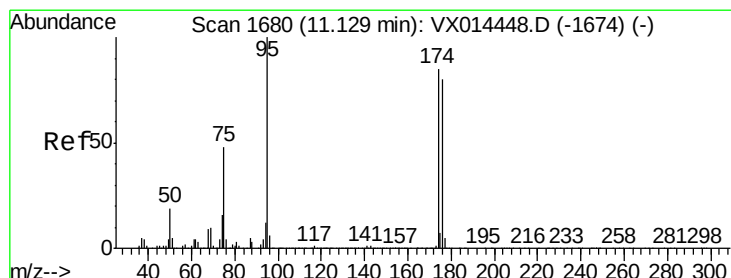
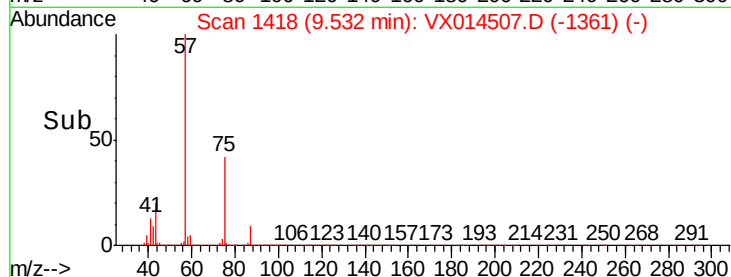
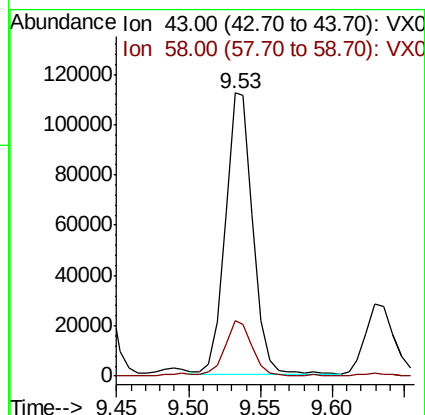
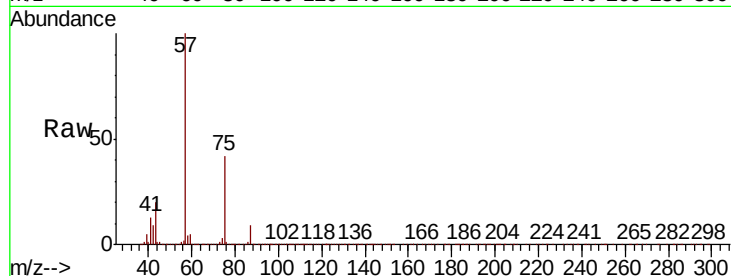
PB125963TB

Tot Ion: 43 Resp: 150718

Ion Ratio Lower Upper

43 100

58 18.8 27.9 83.7#



#62

4-Bromofluorobenzene

Concen: 47.817 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

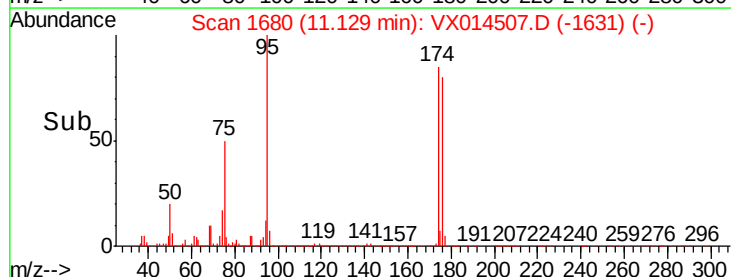
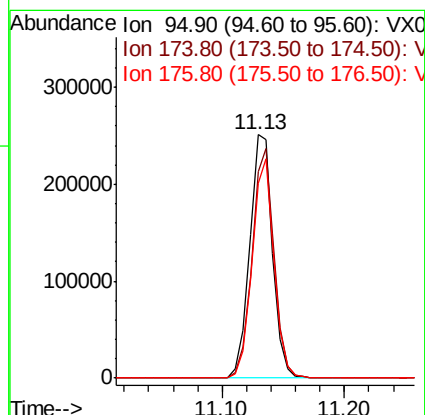
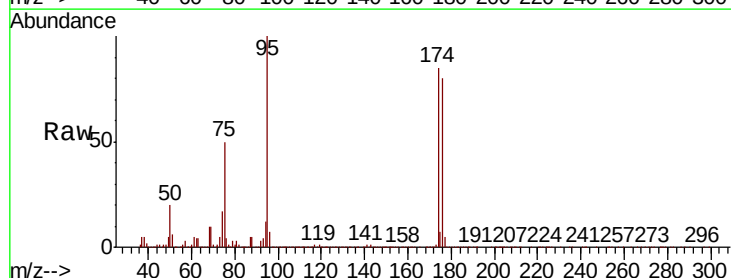
Tgt Ion: 95 Resp: 325693

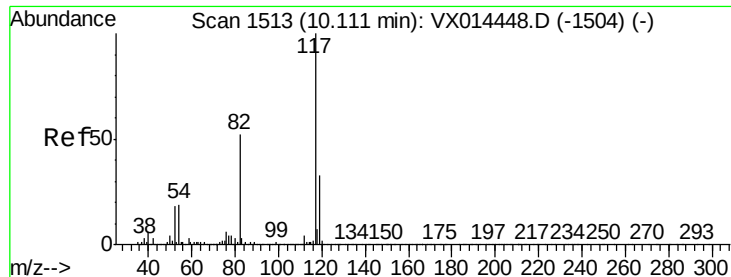
Ion Ratio Lower Upper

95 100

174 91.6 0.0 180.8

176 86.6 0.0 172.8

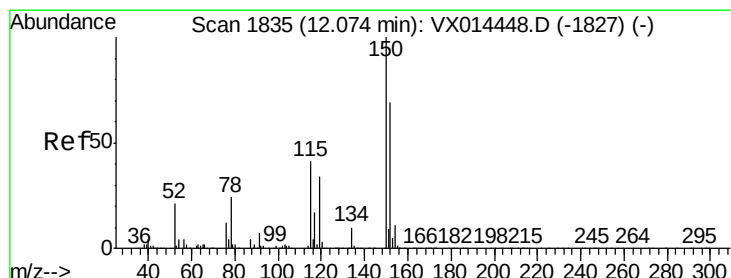
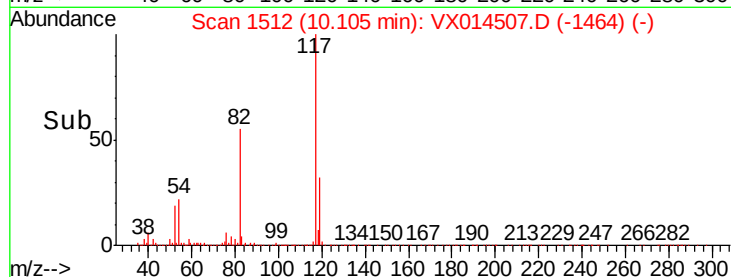
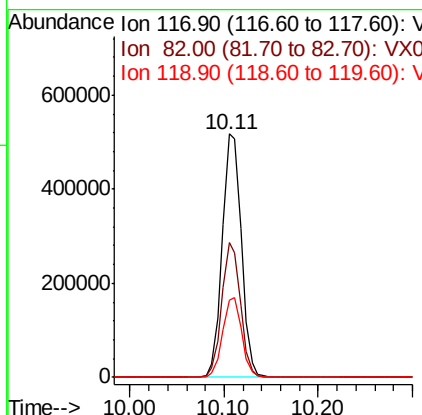
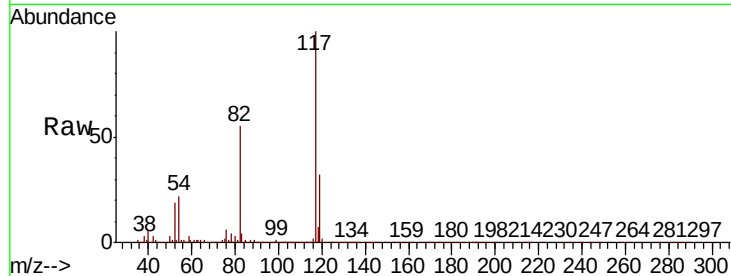




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014507.D
Acq: 09 Jan 2020 19:20

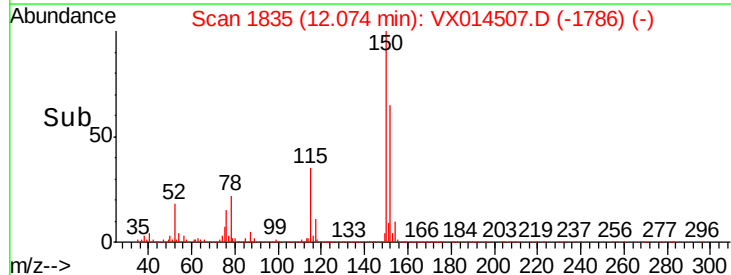
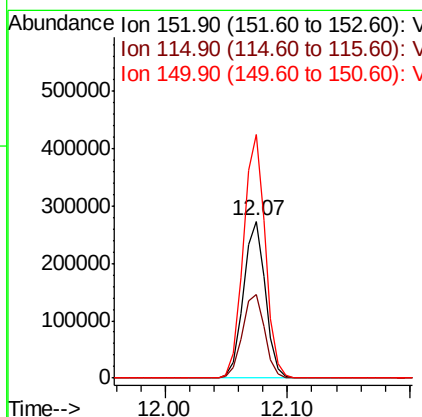
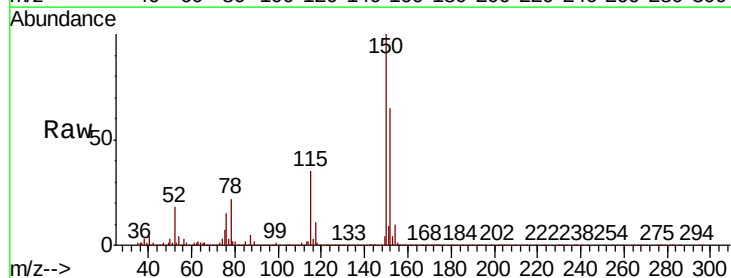
Instrument :
MSVOA_X
ClientSampleId :
PB125963TB

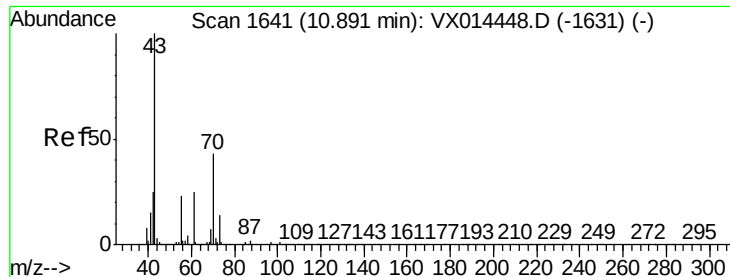
Tot Ion:117 Resp: 726491
Ion Ratio Lower Upper
117 100
82 55.3 41.8 62.6
119 31.7 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014507.D
Acq: 09 Jan 2020 19:20

Tgt Ion:152 Resp: 337249
Ion Ratio Lower Upper
152 100
115 54.5 39.5 118.3
150 154.6 0.0 350.2

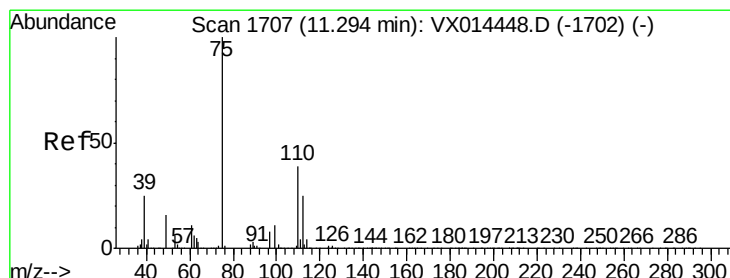
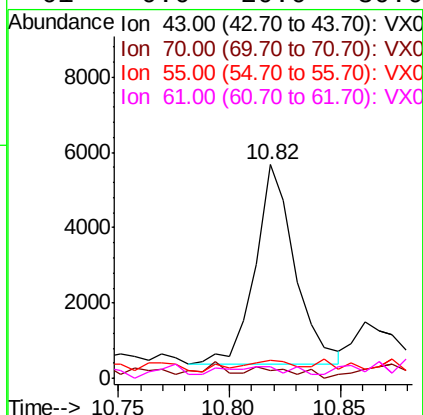
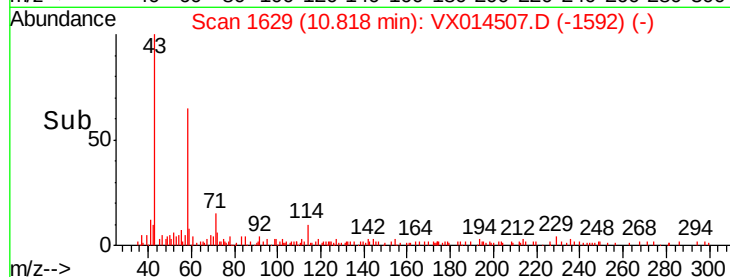
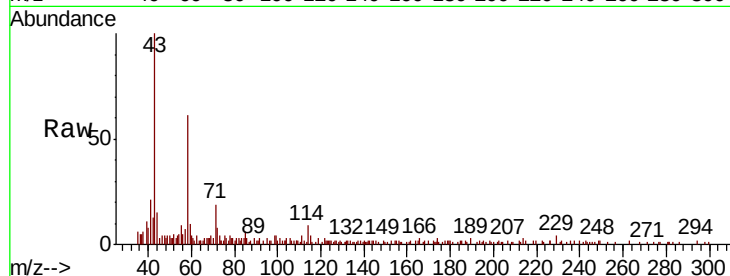




#74
N-amvl acetate
Concen: 0.633 ug/l
RT: 10.82 min Scan# 1629
Delta R.T. -0.07 min
Lab File: VX014507.D
Acq: 09 Jan 2020 19:20

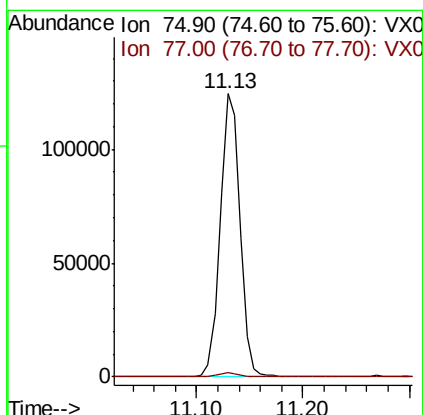
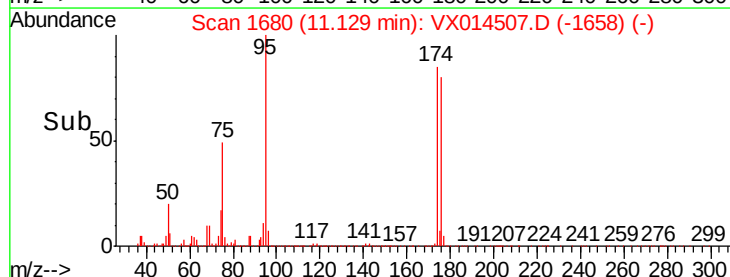
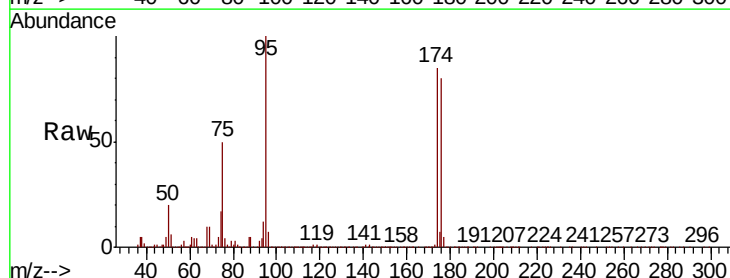
Instrument :
MSVOA_X
ClientSampleId :
PB125963TB

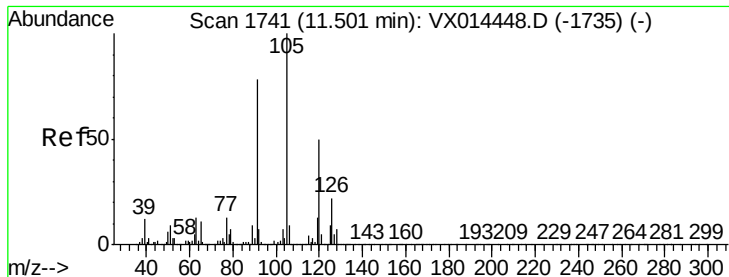
Tot Ion: 43 Resp: 6614
Ion Ratio Lower Upper
43 100
70 6.1 35.1 52.7#
55 8.1 19.3 28.9#
61 0.0 20.0 30.0#



#76
1,2,3-Trichloropropane
Concen: 23.203 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014507.D
Acq: 09 Jan 2020 19:20

Tgt Ion: 75 Resp: 161907
Ion Ratio Lower Upper
75 100
77 1.4 21.9 65.7#





#80

1,3,5-Trimethylbenzene

Concen: 0.435 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

Instrument :

MSVOA_X

ClientSampleId :

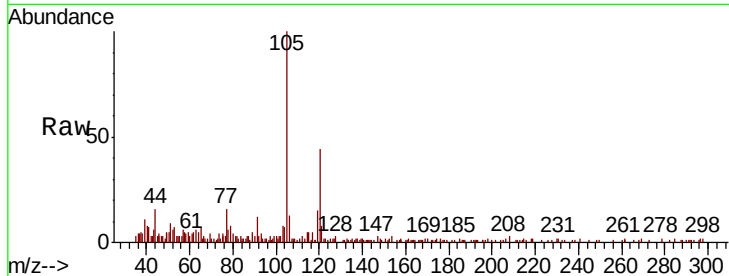
PB125963TB

Tot Ion:105 Resp: 8557

Ion Ratio Lower Upper

105 100

120 43.5 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.50

6000

4000

2000

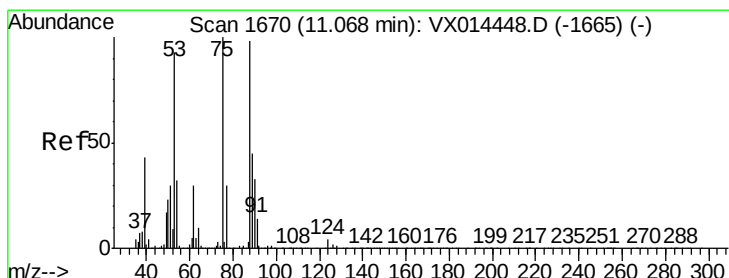
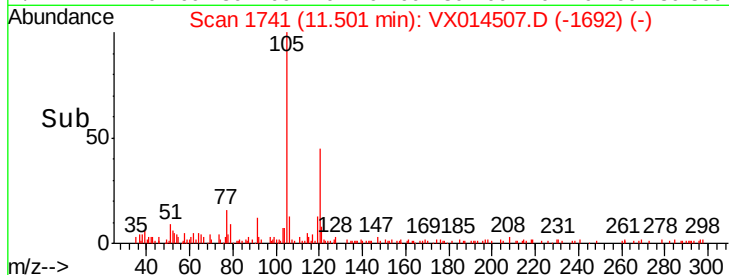
0

Time-->

11.45

11.50

11.55



#81

trans-1,4-Dichloro-2-butene

Concen: 61.345 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014507.D

Acq: 09 Jan 2020 19:20

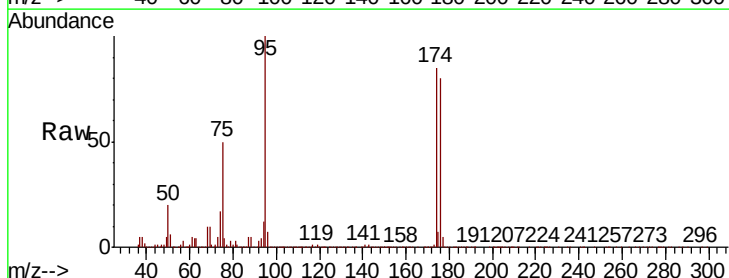
Tgt Ion: 75 Resp: 161907

Ion Ratio Lower Upper

75 100

53 0.3 74.8 112.2#

89 0.0 36.3 54.5#



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

150000

100000

50000

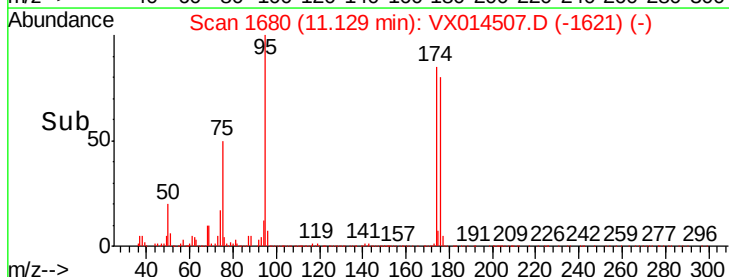
0

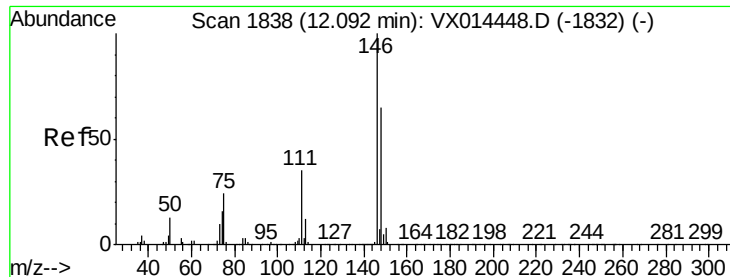
Time-->

11.10

11.13

11.20

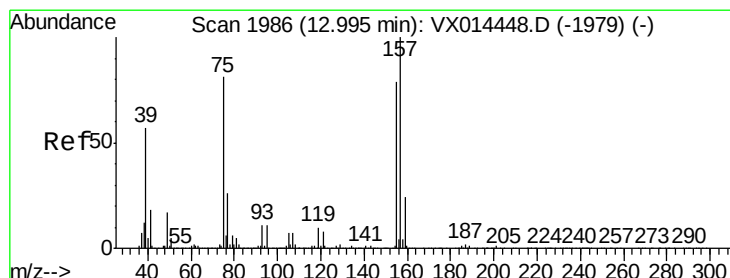
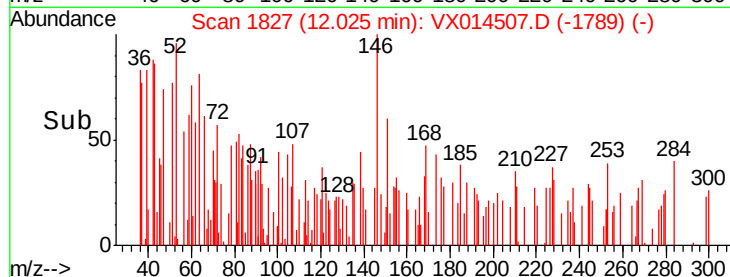
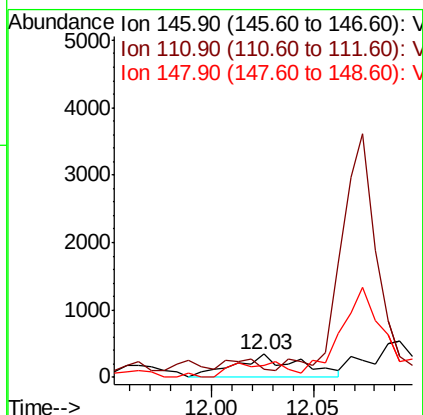
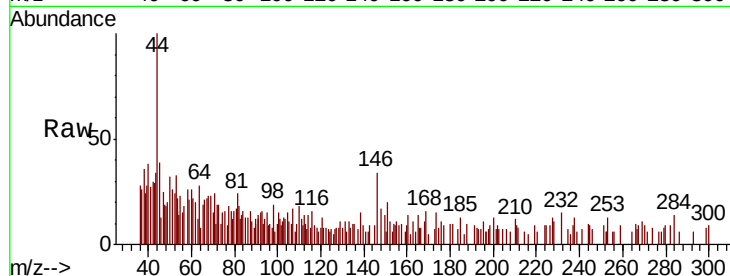




#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 12.03 min Scan# 1827
 Delta R.T. -0.07 min
 Lab File: VX014507.D
 Acq: 09 Jan 2020 19:20

Instrument :
 MSVOA_X
 ClientSampleID :
 PB125963TB

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.6	18.1	54.1
148	54.4	32.1	96.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.290 ug/l
 RT: 13.01 min Scan# 1989
 Delta R.T. 0.02 min
 Lab File: VX014507.D
 Acq: 09 Jan 2020 19:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	43.3	48.7	146.1#
157	81.9	62.0	185.9

