

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122319\
 Data File : VX014195.D
 Acq On : 23 Dec 2019 12:30
 Operator : JC/SP
 Sample : PB125652TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB125652TB

Quant Time: Dec 24 01:28:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	587245	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	911265	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	815844	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	372663	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	322052	48.39	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.78%		
35) Dibromofluoromethane	5.48	113	268928	48.55	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.10%		
50) Toluene-d8	8.71	98	1082167	50.18	ug/l	0.00
Spiked Amount 50.000			Recovery =	100.36%		
62) 4-Bromofluorobenzene	11.13	95	374597	47.52	ug/l	0.00
Spiked Amount 50.000			Recovery =	95.04%		

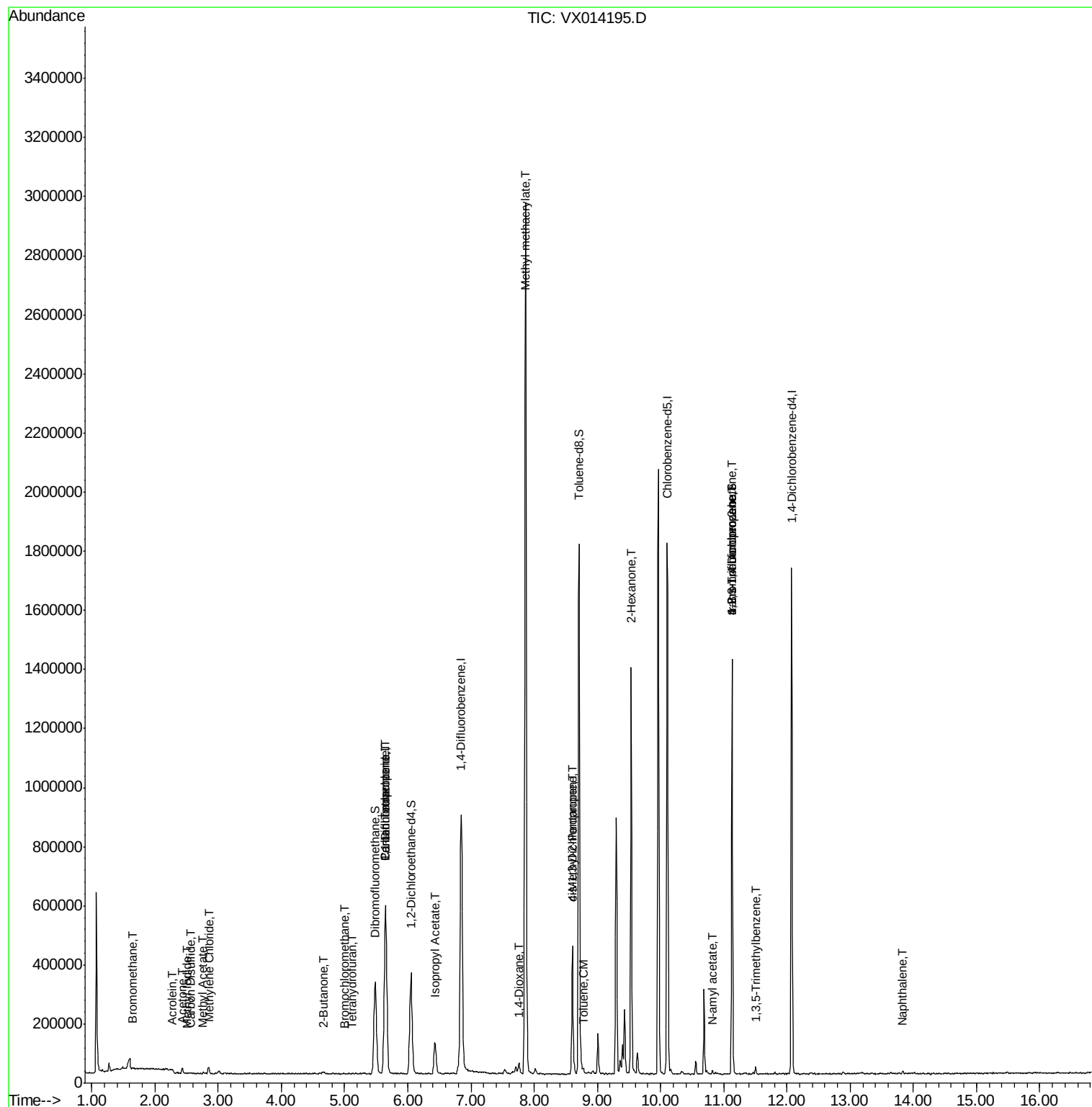
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1944	0.368	ug/l #	71
10) Methyl Iodide	2.51	142	2677	2.967	ug/l #	92
13) Acrolein	2.28	56	716	0.870	ug/l #	57
16) Acetone	2.44	43	20022	4.634	ug/l	92
17) Carbon Disulfide	2.56	76	3481	0.969	ug/l	99
18) Methyl Acetate	2.76	43	7226	0.844	ug/l #	89
20) Methylene Chloride	2.84	84	12931	1.900	ug/l #	89
25) 2-Butanone	4.66	43	5923	1.112	ug/l	100
28) Bromochloromethane	5.00	49	716	0.619	ug/l #	41
29) Tetrahydrofuran	5.12	42	923	0.310	ug/l #	74
36) 1,1-Dichloropropene	5.65	75	40146	4.801	ug/l #	50
38) Carbon Tetrachloride	5.64	117	51372	6.744	ug/l #	16
43) Isopropyl Acetate	6.43	43	150672	9.860	ug/l	100
48) Methyl methacrylate	7.86	41	238034	31.812	ug/l #	42
49) 1,4-Dioxane	7.75	88	154	1.011	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	148912	15.517	ug/l #	51
52) Toluene	8.78	92	4956	0.305	ug/l	83
54) cis-1,3-Dichloropropene	8.60	75	68167	6.796	ug/l #	58
59) 2-Hexanone	9.53	43	171973	22.261	ug/l #	50
74) N-amyl acetate	10.82	43	6749	0.549	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	180413	22.299	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.50	105	10403	0.471	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.13	75	180413	62.941	ug/l #	12
95) Naphthalene	13.83	128	6273	0.258	ug/l #	85

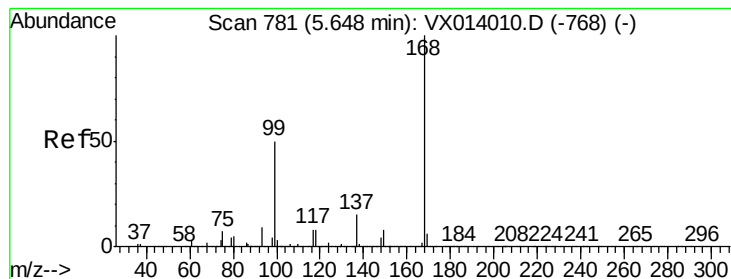
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX014195.D

Acq: 23 Dec 2019 12:30

Instrument :

MSVOA_X

ClientSampleId :

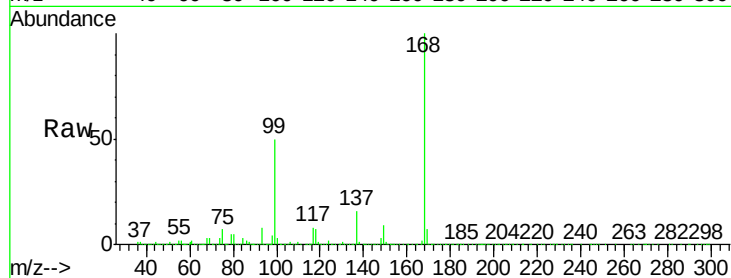
PB125652TB

Tgt Ion: 168 Resp: 587245

Ion Ratio Lower Upper

168 100

99 50.2 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

150000

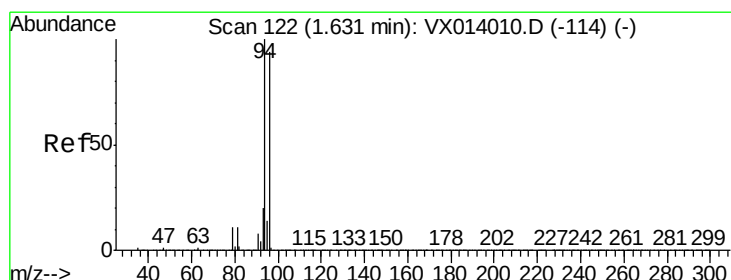
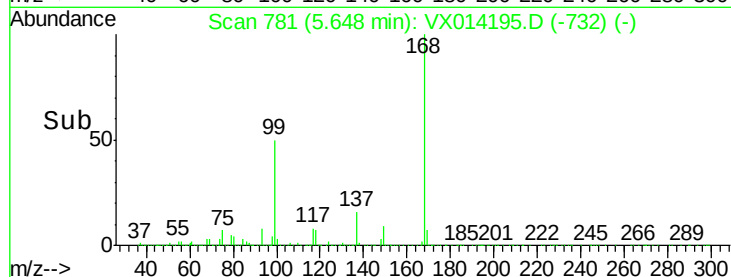
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.368 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014195.D

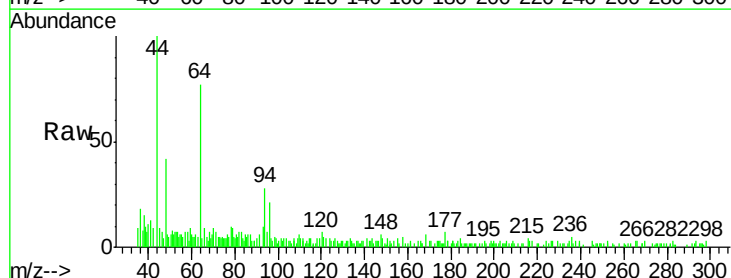
Acq: 23 Dec 2019 12:30

Tgt Ion: 94 Resp: 1944

Ion Ratio Lower Upper

94 100

96 66.4 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

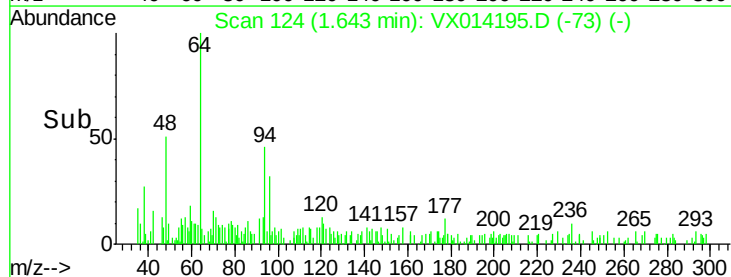
1000

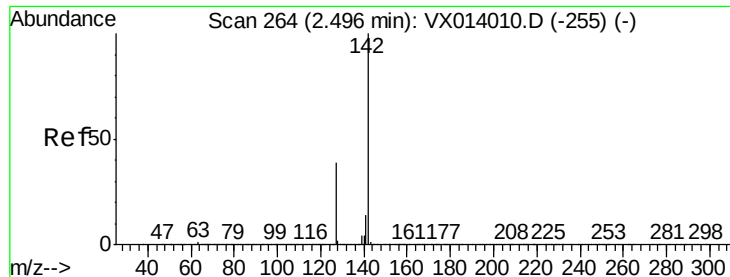
500

0

Time-->

1.60 1.65 1.70

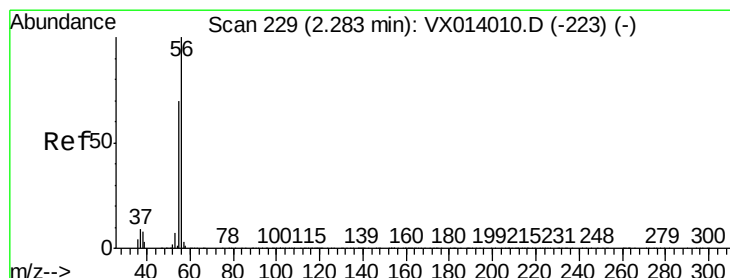
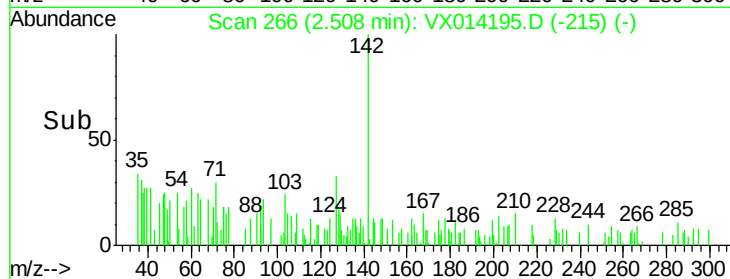
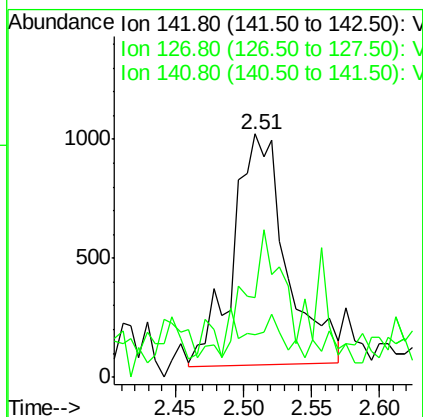
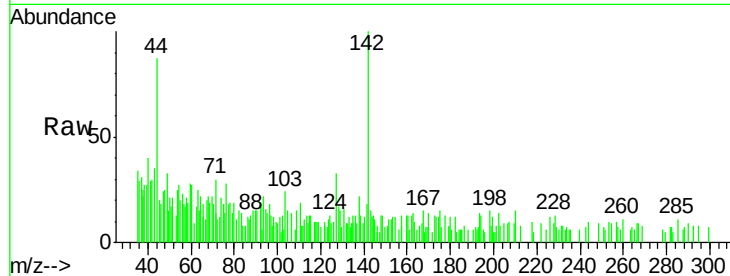




#10
Methyl Iodide
Concen: 2.967 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX014195.D
Acq: 23 Dec 2019 12:30

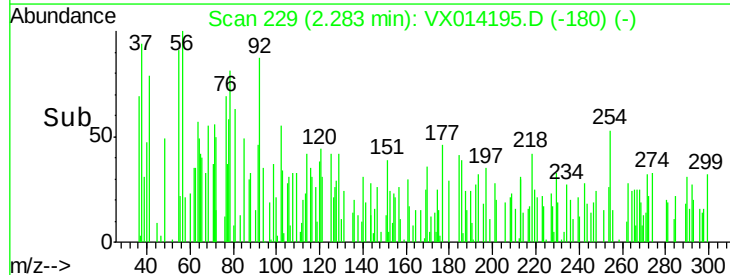
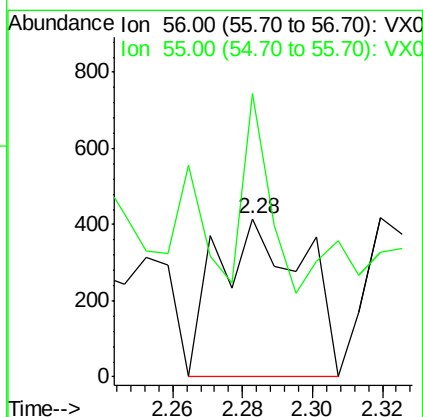
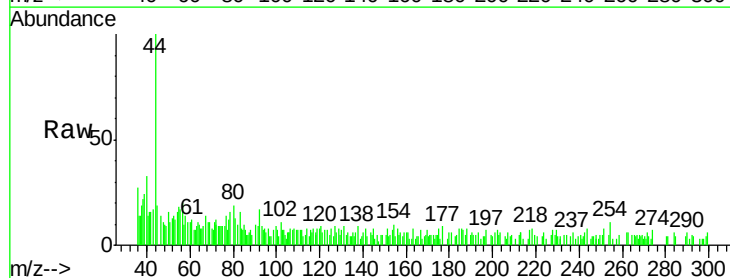
Instrument :
MSVOA_X
ClientSampled :
PB125652TB

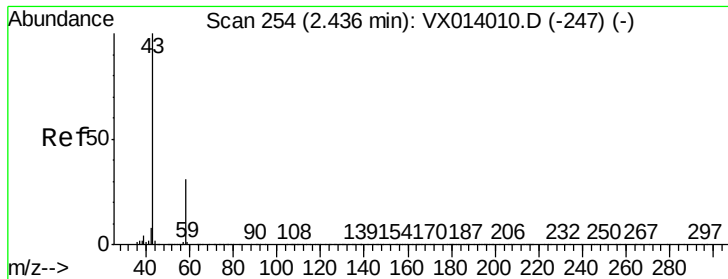
Tgt Ion:142 Resp: 2677
Ion Ratio Lower Upper
142 100
127 36.6 31.6 47.4
141 7.0 11.6 17.4#



#13
Acrolein
Concen: 0.870 ug/l
RT: 2.28 min Scan# 229
Delta R.T. -0.00 min
Lab File: VX014195.D
Acq: 23 Dec 2019 12:30

Tgt Ion: 56 Resp: 716
Ion Ratio Lower Upper
56 100
55 35.8 56.9 85.3#





#16

Acetone

Concen: 4.634 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX014195.D

Acq: 23 Dec 2019 12:30

Instrument :

MSVOA_X

ClientSampleId :

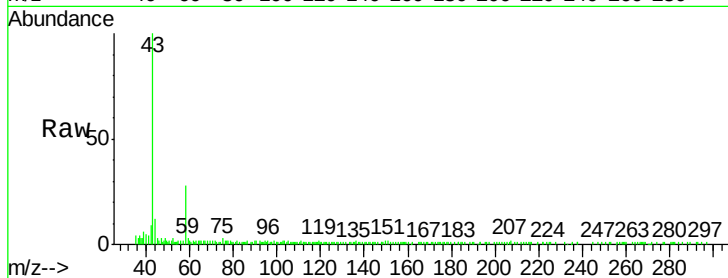
PB125652TB

Tgt Ion: 43 Resp: 20022

Ion Ratio Lower Upper

43 100

58 26.5 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

12000

10000

8000

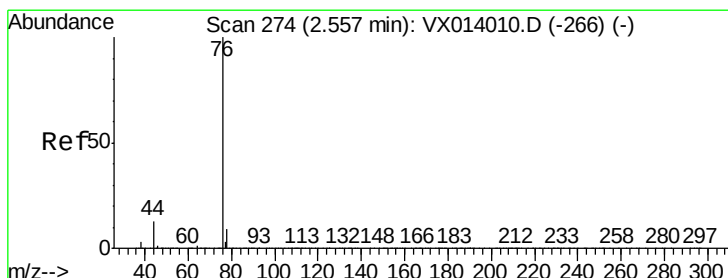
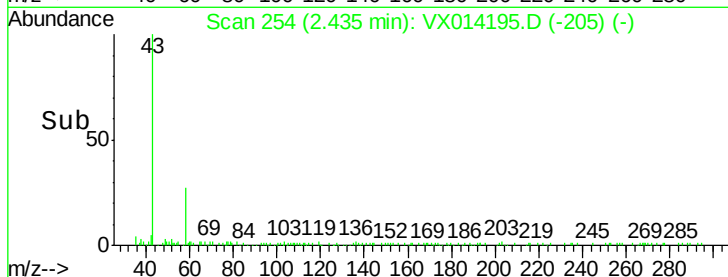
6000

4000

2000

0

Time--> 2.35 2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.969 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014195.D

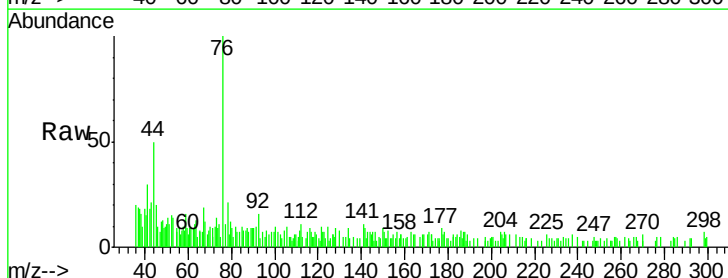
Acq: 23 Dec 2019 12:30

Tgt Ion: 76 Resp: 3481

Ion Ratio Lower Upper

76 100

78 9.2 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2000

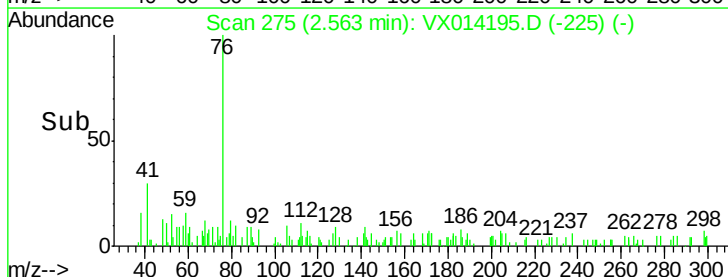
1500

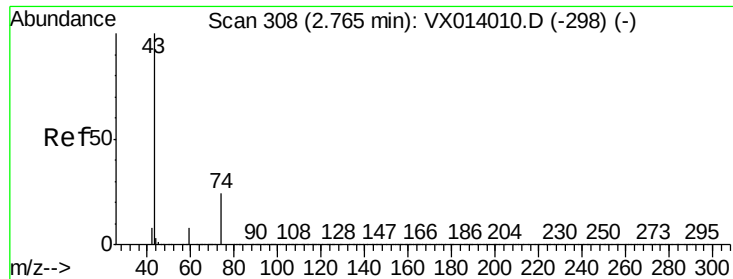
1000

500

0

Time--> 2.50 2.55 2.60

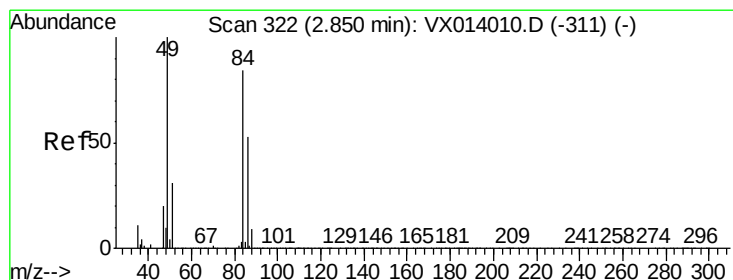
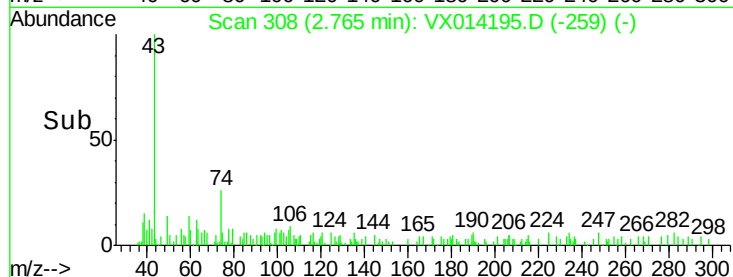
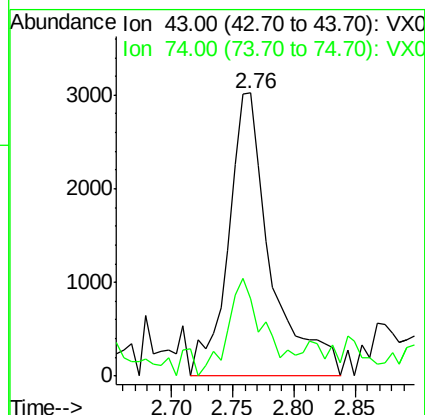
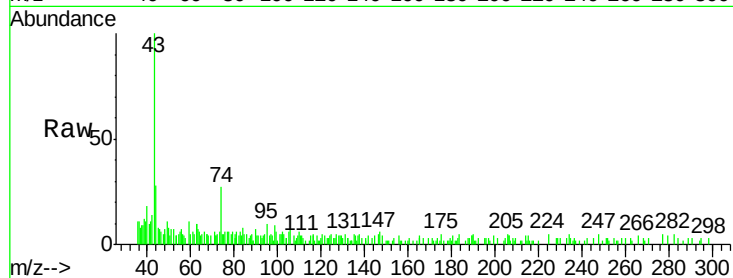




#18
Methyl Acetate
Concen: 0.844 ug/l
RT: 2.76 min Scan# 308
Delta R.T. -0.00 min
Lab File: VX014195.D
Acq: 23 Dec 2019 12:30

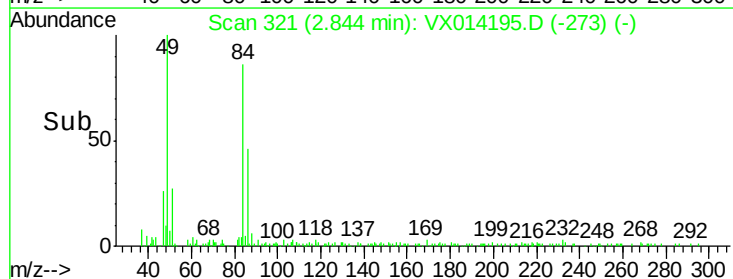
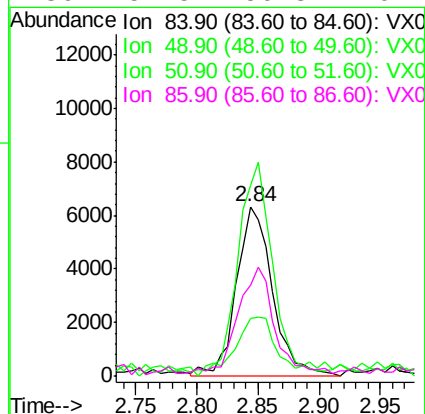
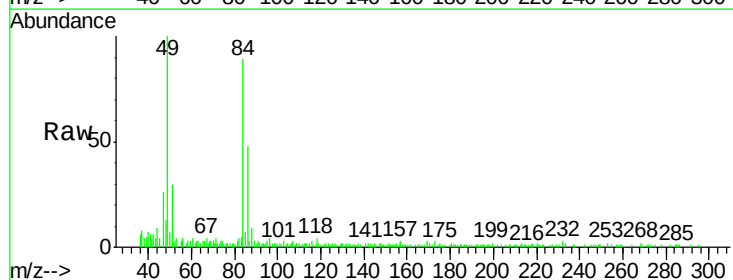
Instrument :
MSVOA_X
ClientSampleId :
PB125652TB

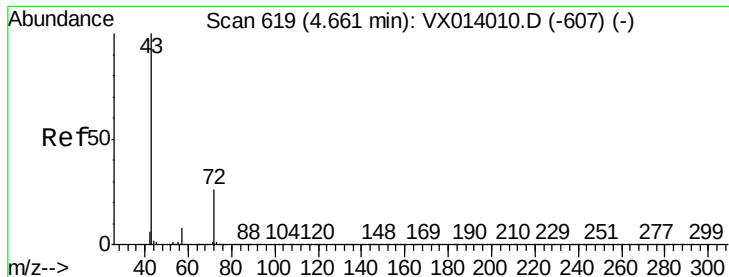
Tgt Ion: 43 Resp: 7226
Ion Ratio Lower Upper
43 100
74 30.1 19.5 29.3#



#20
Methylene Chloride
Concen: 1.900 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX014195.D
Acq: 23 Dec 2019 12:30

Tgt Ion: 84 Resp: 12931
Ion Ratio Lower Upper
84 100
49 110.2 95.8 143.6
51 28.8 29.8 44.8#
86 51.5 50.8 76.2





#25

2-Butanone

Concen: 1.112 ug/l

RT: 4.66 min Scan# 619

Delta R.T. -0.00 min

Lab File: VX014195.D

Acq: 23 Dec 2019 12:30

Instrument :

MSVOA_X

ClientSampled :

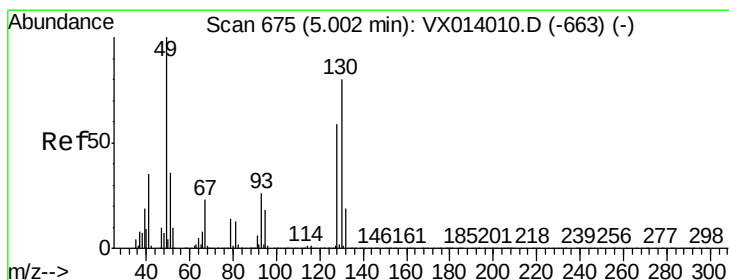
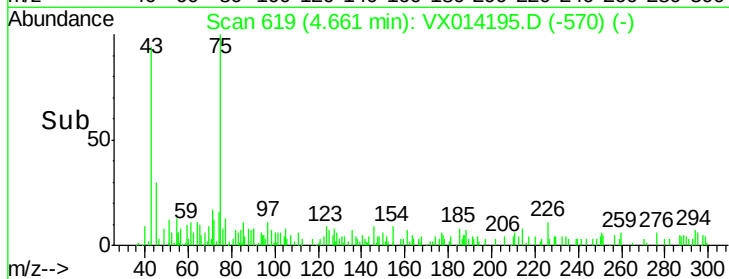
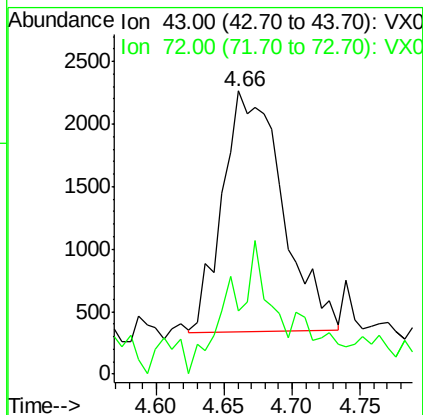
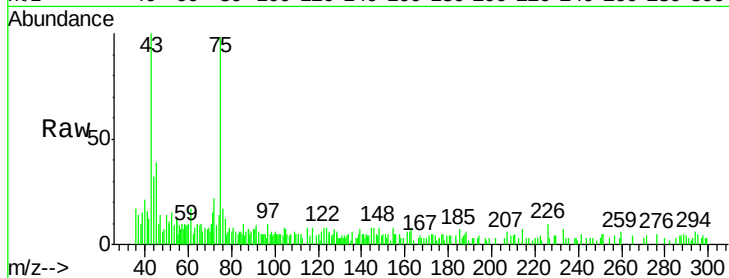
PB125652TB

Tgt Ion: 43 Resp: 5923

Ion Ratio Lower Upper

43 100

72 26.3 21.0 31.4



#28

Bromochloromethane

Concen: 0.619 ug/l

RT: 5.00 min Scan# 675

Delta R.T. -0.00 min

Lab File: VX014195.D

Acq: 23 Dec 2019 12:30

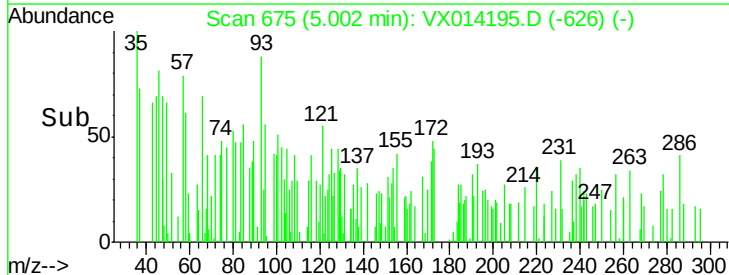
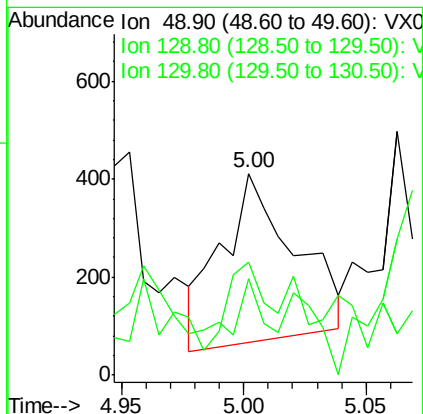
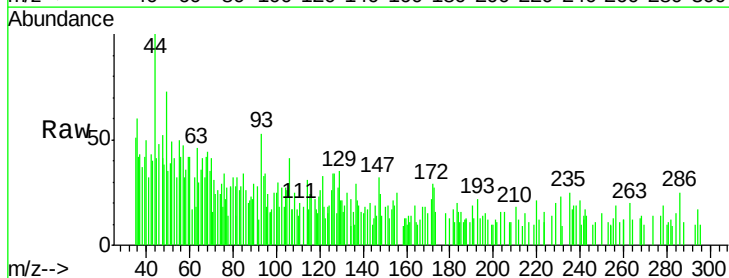
Tgt Ion: 49 Resp: 716

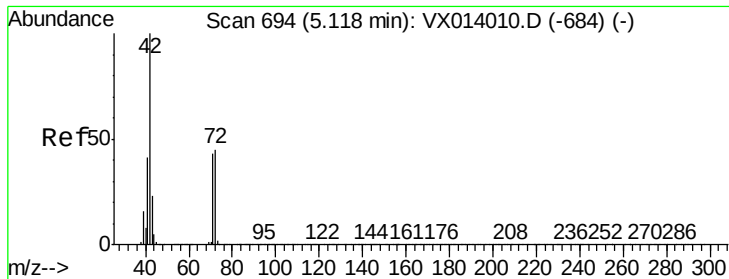
Ion Ratio Lower Upper

49 100

129 12.4 0.0 5.0#

130 27.8 64.6 97.0#

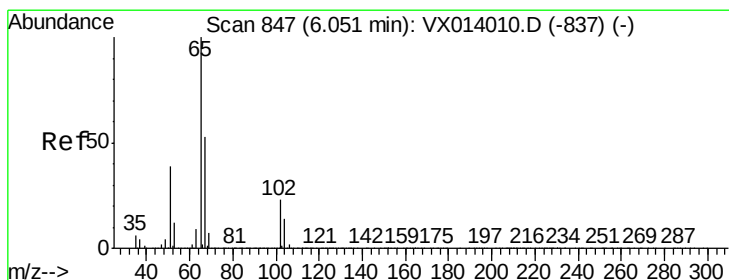
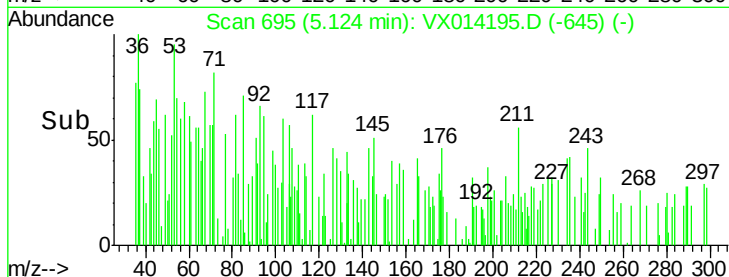
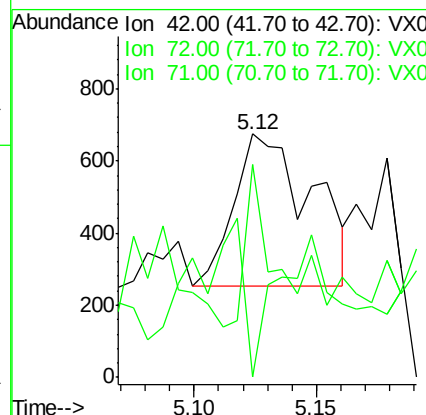
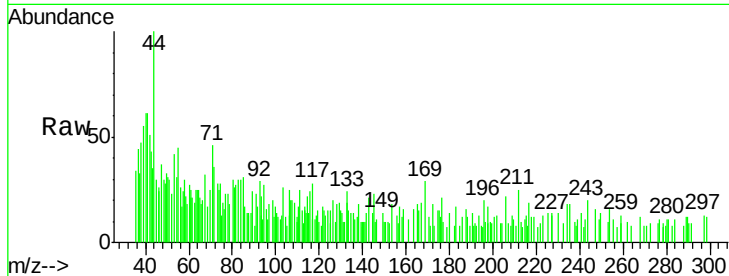




#29
Tetrahydrofuran
Concen: 0.310 ug/l
RT: 5.12 min Scan# 695
Delta R.T. 0.01 min
Lab File: VX014195.D
Acq: 23 Dec 2019 12:30

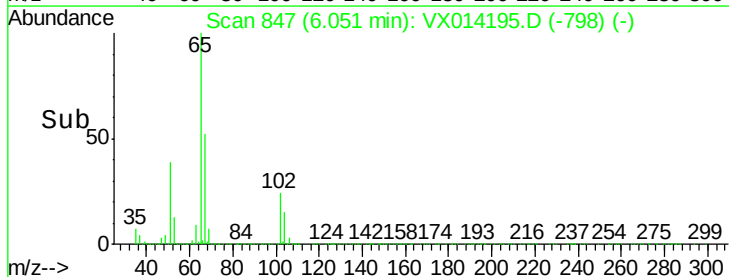
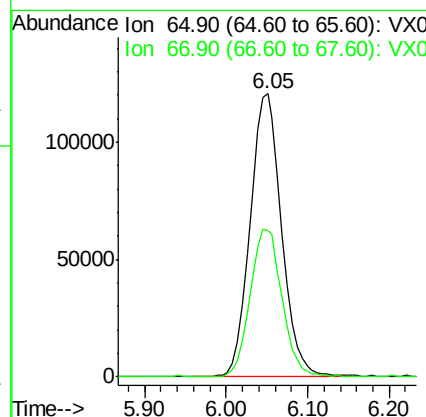
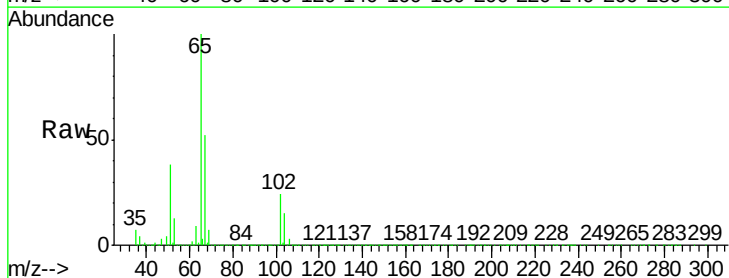
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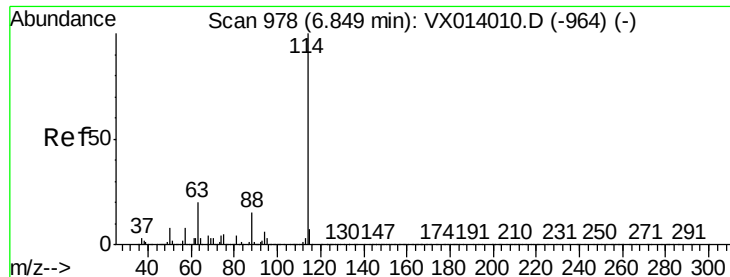
Tgt Ion: 42 Resp: 923
Ion Ratio Lower Upper
42 100
72 70.0 35.8 53.8#
71 34.5 33.6 50.4



#33
1,2-Dichloroethane-d4
Concen: 48.388 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX014195.D
Acq: 23 Dec 2019 12:30

Tgt Ion: 65 Resp: 322052
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014195.D

Acq: 23 Dec 2019 12:30

Instrument :

MSVOA_X

ClientSampleId :

PB125652TB

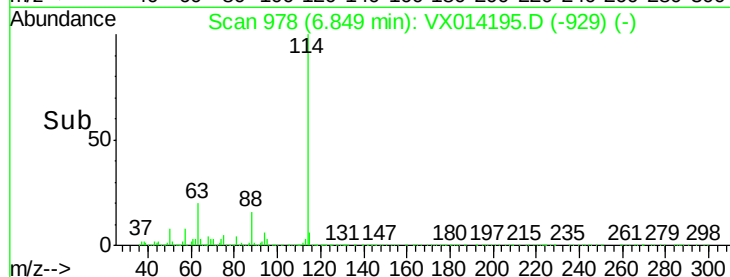
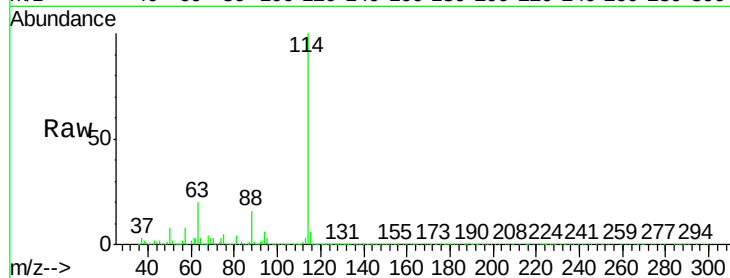
Tgt Ion:114 Resp: 911265

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.8

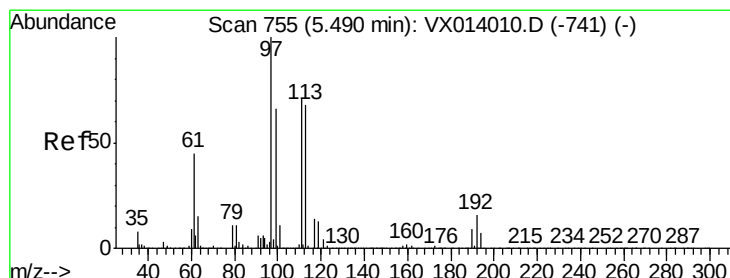
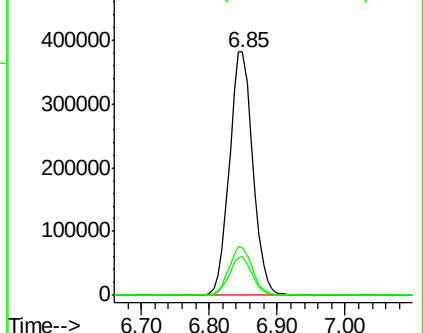
88 15.9 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.547 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX014195.D

Acq: 23 Dec 2019 12:30

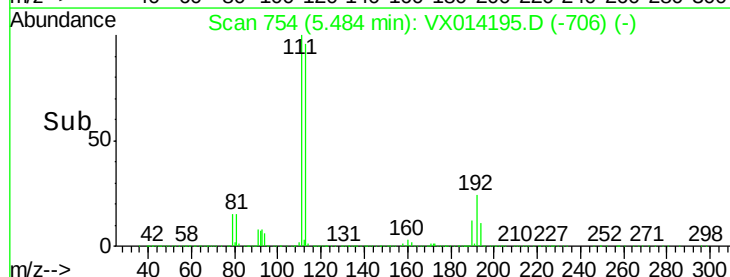
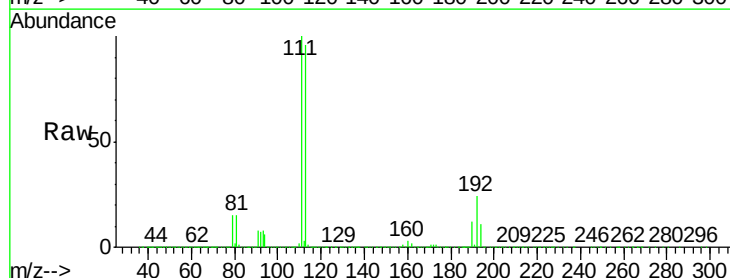
Tgt Ion:113 Resp: 268928

Ion Ratio Lower Upper

113 100

111 102.6 82.0 123.0

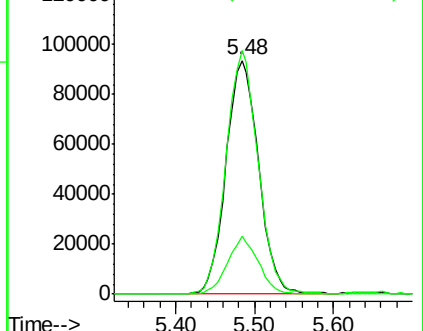
192 23.1 19.3 28.9

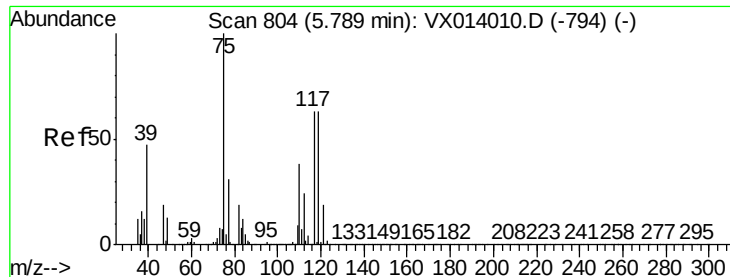


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

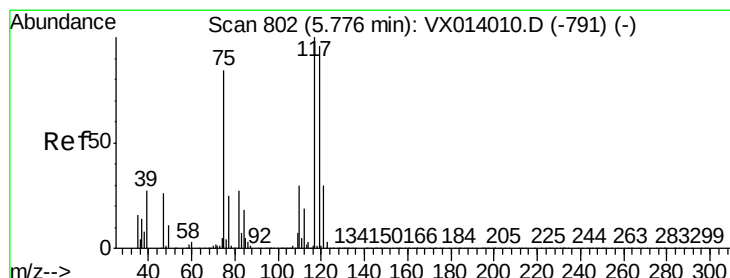
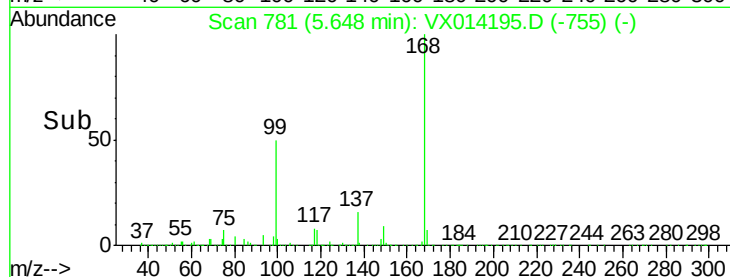
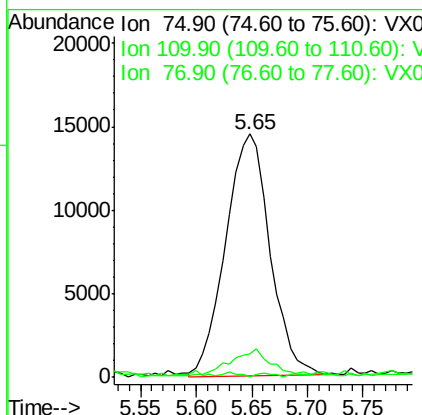
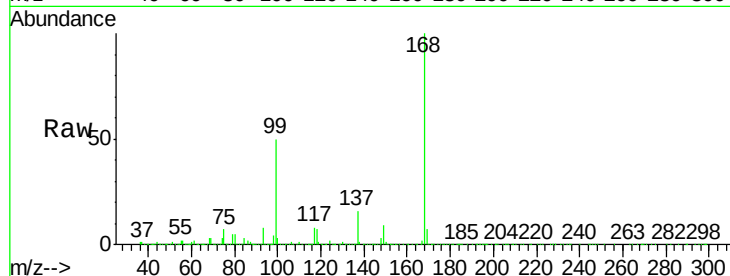




#36
 1,1-Dichloropropene
 Concen: 4.801 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014195.D
 Acq: 23 Dec 2019 12:30

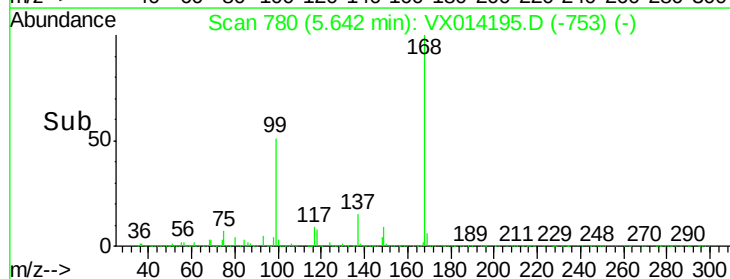
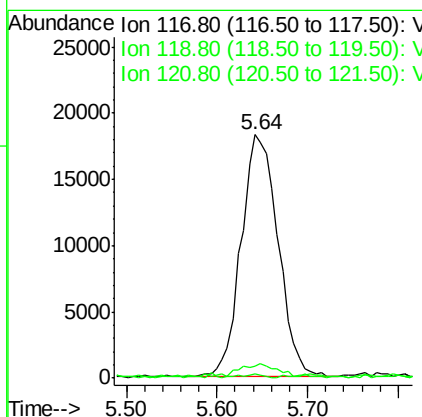
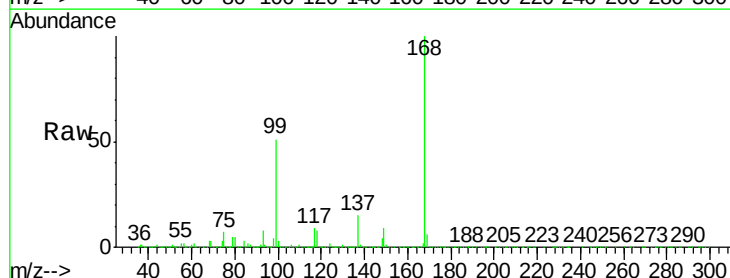
Instrument :
 MSVOA_X
 ClientSampleId :
 PB125652TB

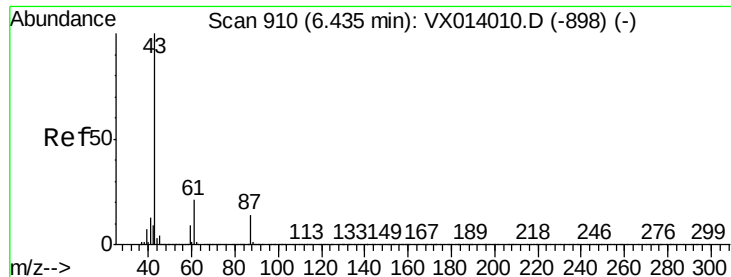
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.8	18.3	54.9#
77	0.7	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.744 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.13 min
 Lab File: VX014195.D
 Acq: 23 Dec 2019 12:30

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	76.2	114.4#
121	0.7	23.6	35.4#





#43

Isopropyl Acetate

Concen: 9.860 ug/l

RT: 6.43 min Scan# 909

Delta R.T. -0.01 min

Lab File: VX014195.D

Acq: 23 Dec 2019 12:30

Instrument :

MSVOA_X

ClientSampleId :

PB125652TB

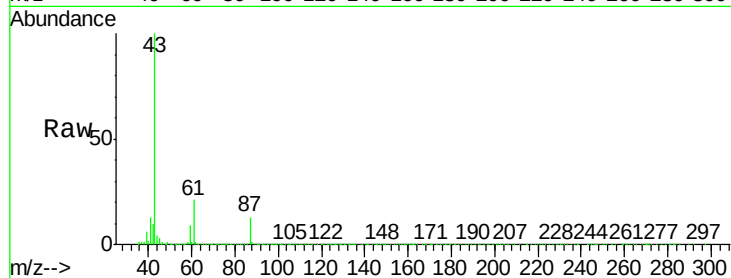
Tgt Ion: 43 Resp: 150672

Ion Ratio Lower Upper

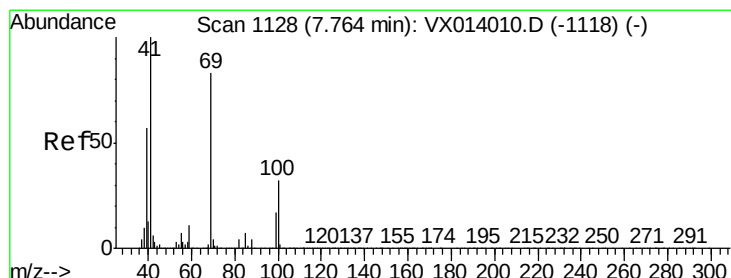
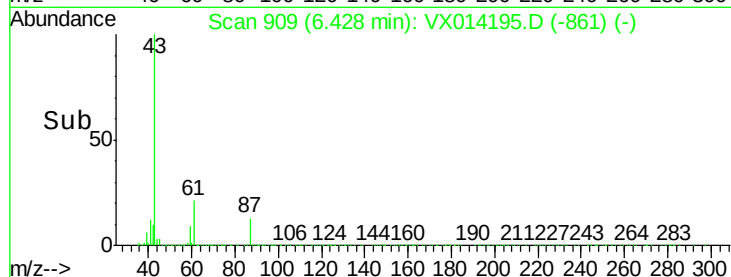
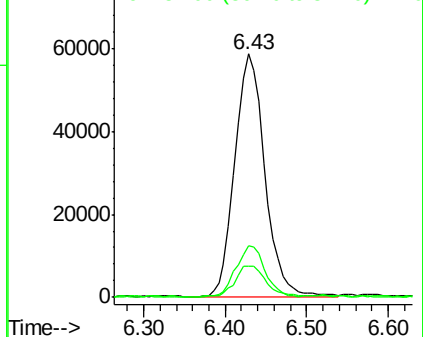
43 100

61 20.5 16.4 24.6

87 13.2 10.7 16.1



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



#48

Methyl methacrylate

Concen: 31.812 ug/l

RT: 7.86 min Scan# 1144

Delta R.T. 0.10 min

Lab File: VX014195.D

Acq: 23 Dec 2019 12:30

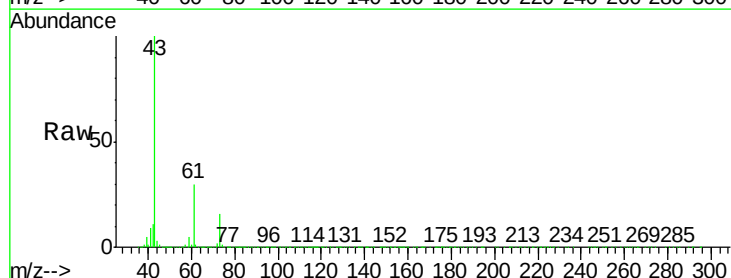
Tgt Ion: 41 Resp: 238034

Ion Ratio Lower Upper

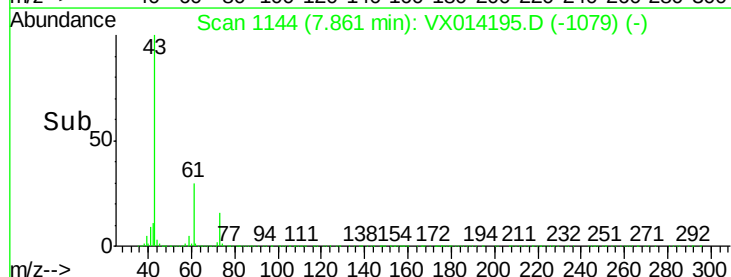
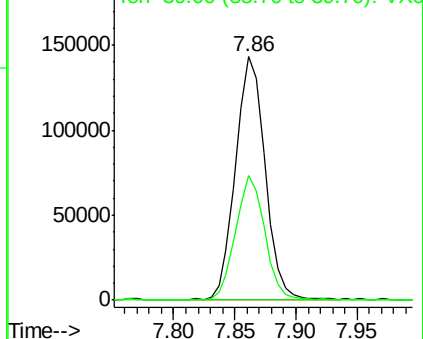
41 100

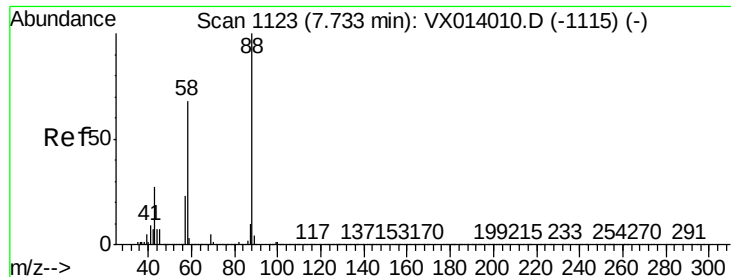
69 0.2 65.8 98.6#

39 50.4 44.6 67.0



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





#49

1,4-Dioxane

Concen: 1.011 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX014195.D

Acq: 23 Dec 2019 12:30

Instrument :

MSVOA_X

ClientSampleId :

PB125652TB

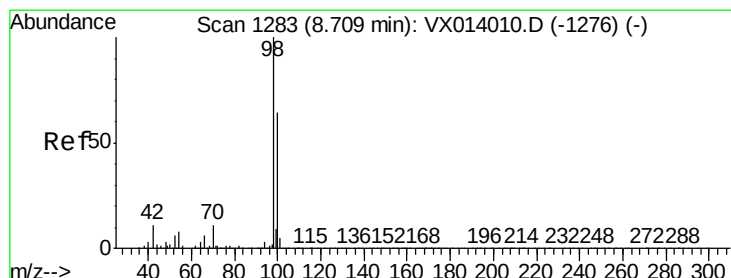
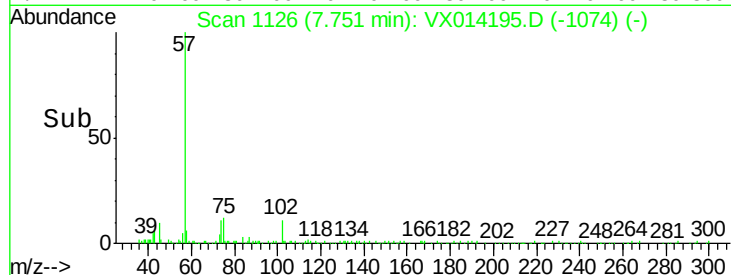
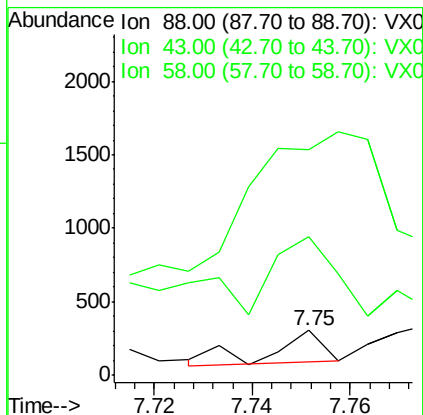
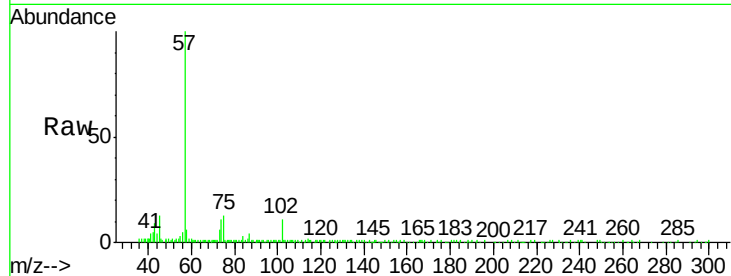
Tgt Ion: 88 Resp: 154

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

58 1030.5 56.8 85.2#



#50

Toluene-d8

Concen: 50.178 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014195.D

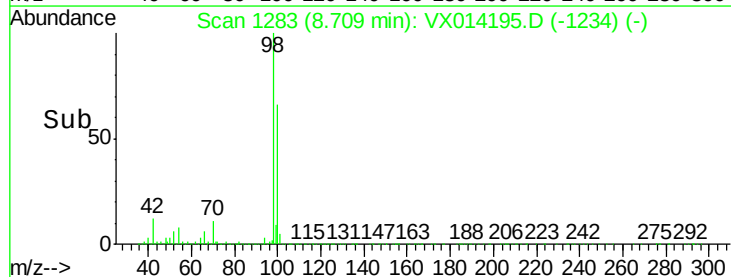
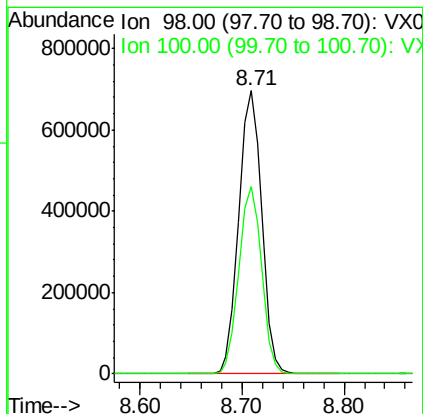
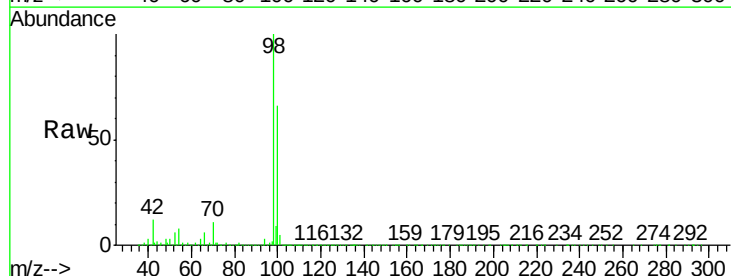
Acq: 23 Dec 2019 12:30

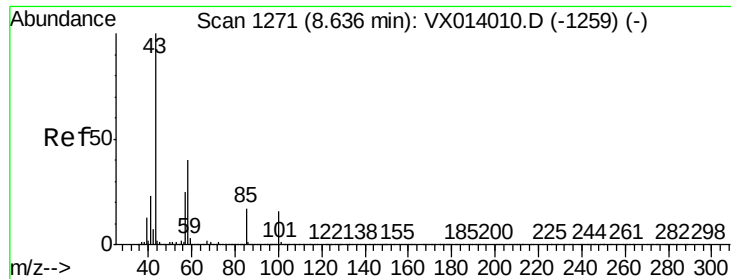
Tgt Ion: 98 Resp: 1082167

Ion Ratio Lower Upper

98 100

100 65.3 52.9 79.3

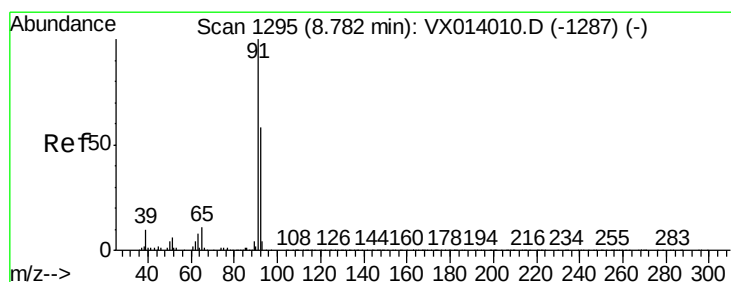
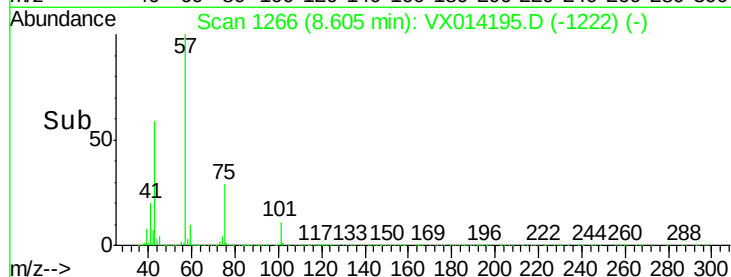
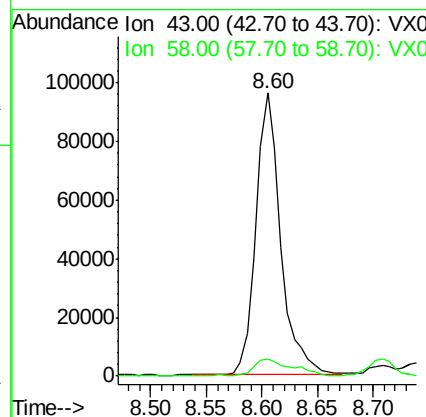
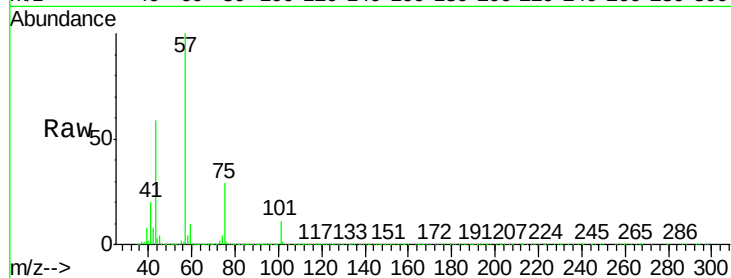




#51
 4-Methyl-2-Pentanone
 Concen: 15.517 ug/l
 RT: 8.60 min Scan# 1266
 Delta R.T. -0.03 min
 Lab File: VX014195.D
 Acq: 23 Dec 2019 12:30

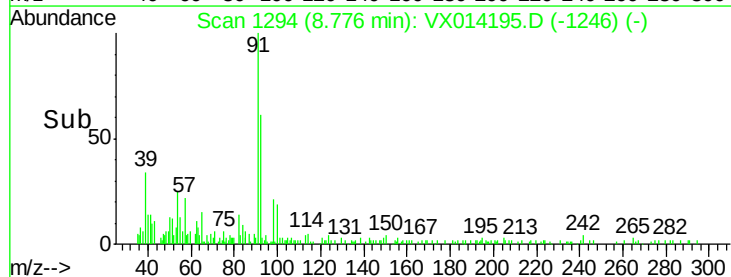
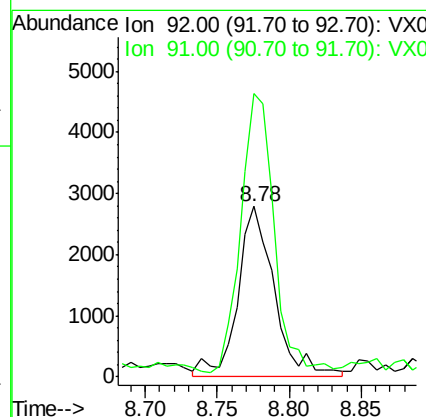
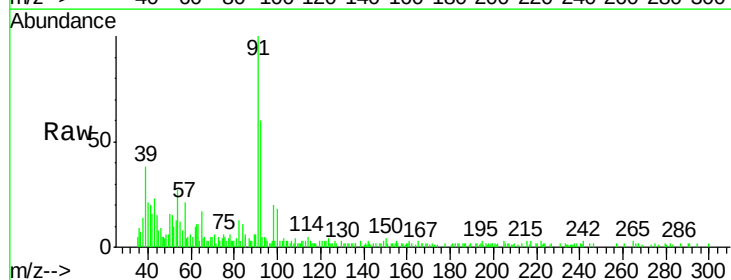
Instrument :
 MSVOA_X
 ClientSampled :
 PB125652TB

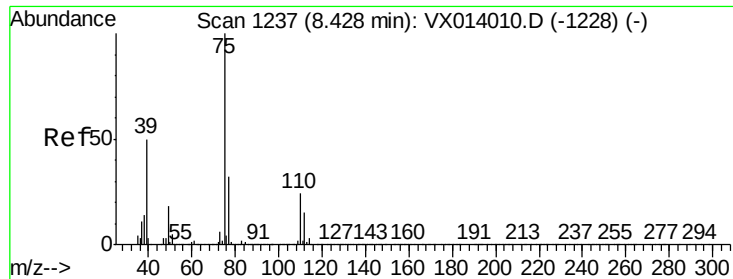
Tgt Ion: 43 Resp: 148912
 Ion Ratio Lower Upper
 43 100
 58 9.7 32.2 48.2#



#52
 Toluene
 Concen: 0.305 ug/l
 RT: 8.78 min Scan# 1294
 Delta R.T. -0.01 min
 Lab File: VX014195.D
 Acq: 23 Dec 2019 12:30

Tgt Ion: 92 Resp: 4956
 Ion Ratio Lower Upper
 92 100
 91 147.4 136.2 204.4



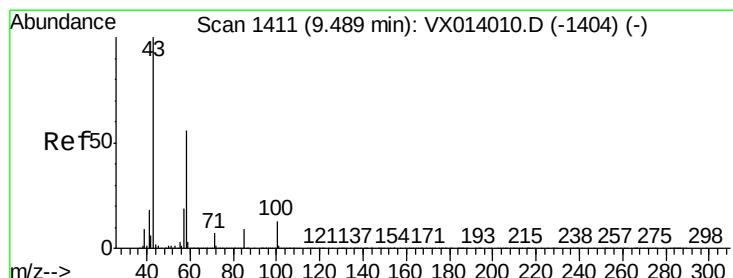
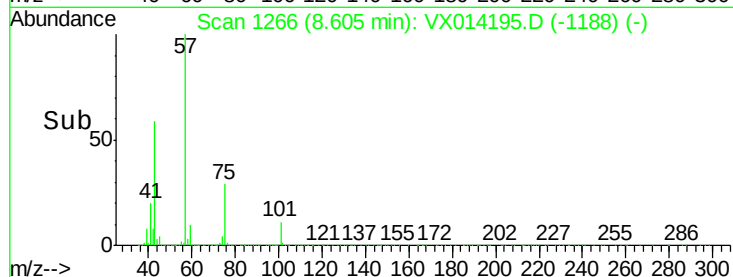
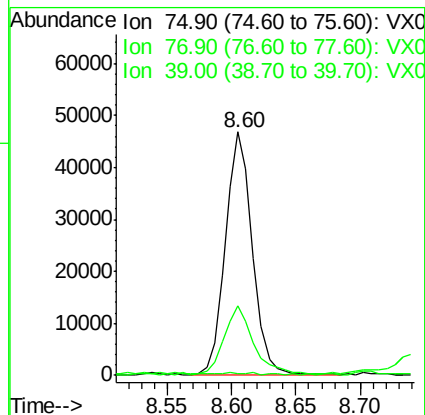
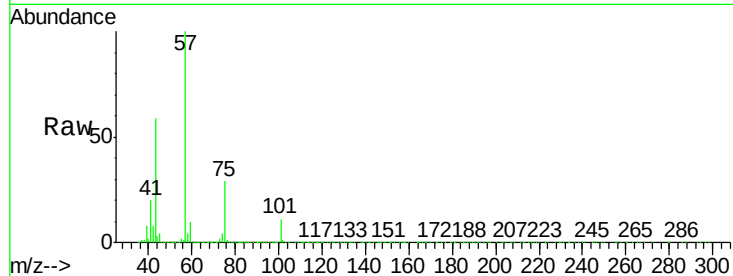


#54

cis-1,3-Dichloropropene
 Concen: 6.796 ug/l
 RT: 8.60 min Scan# 1266
 Delta R.T. 0.18 min
 Lab File: VX014195.D
 Acq: 23 Dec 2019 12:30

Instrument :
 MSVOA_X
 ClientSampleId :
 PB125652TB

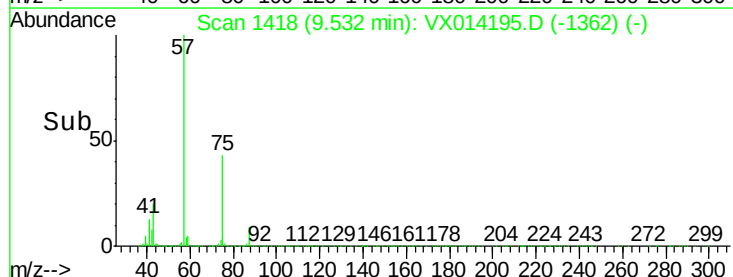
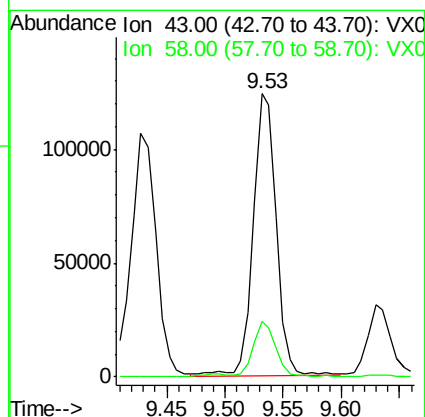
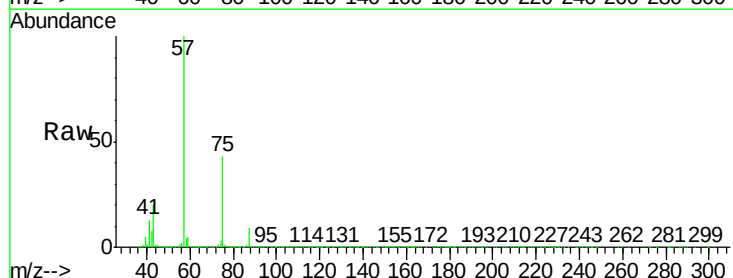
Tgt Ion: 75 Resp: 68167
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.3 37.9#
 39 27.7 39.9 59.9#

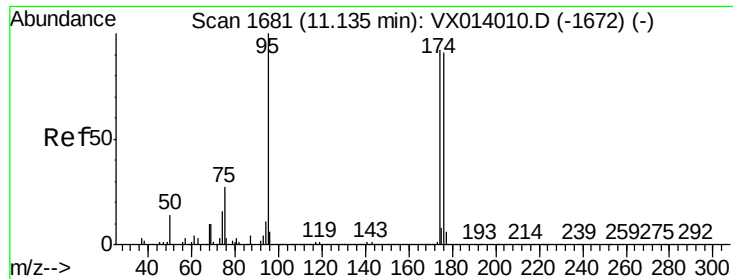


#59

2-Hexanone
 Concen: 22.261 ug/l
 RT: 9.53 min Scan# 1418
 Delta R.T. 0.04 min
 Lab File: VX014195.D
 Acq: 23 Dec 2019 12:30

Tgt Ion: 43 Resp: 171973
 Ion Ratio Lower Upper
 43 100
 58 19.2 28.0 84.0#





#62

4-Bromofluorobenzene

Concen: 47.516 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014195.D

Acq: 23 Dec 2019 12:30

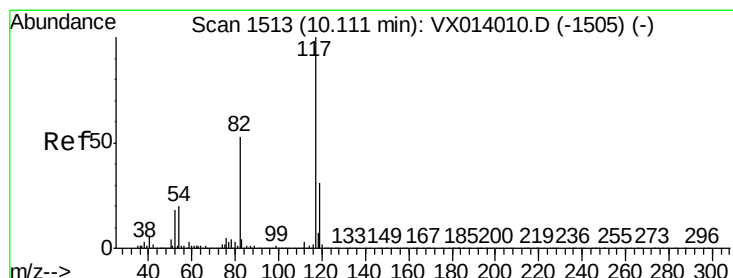
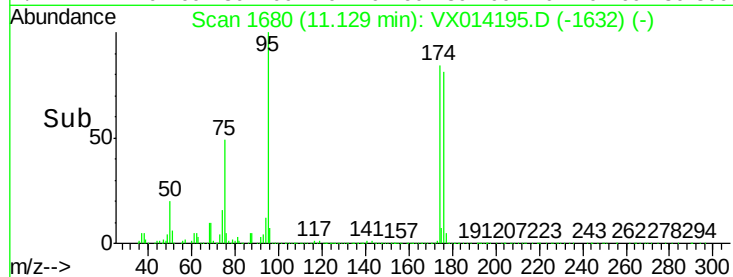
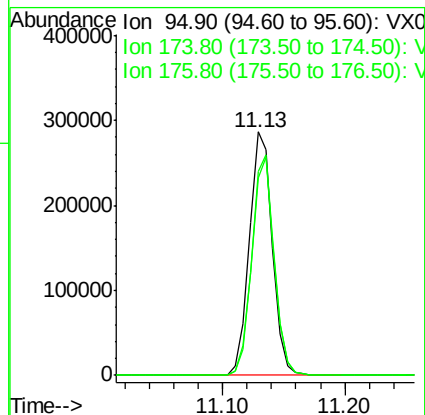
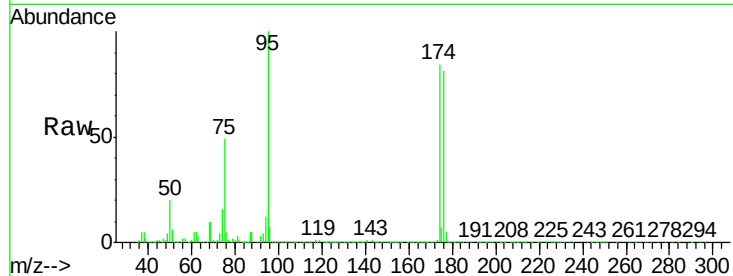
Instrument :

MSVOA_X

ClientSampleId :

PB125652TB

Tgt Ion:	95	Resp:	374597
Ion	Ratio	Lower	Upper
95	100		
174	89.2	0.0	175.8
176	86.9	0.0	173.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

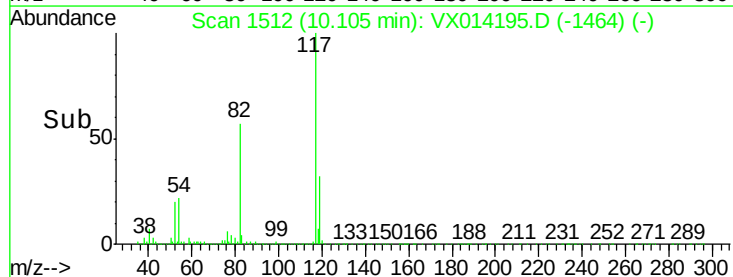
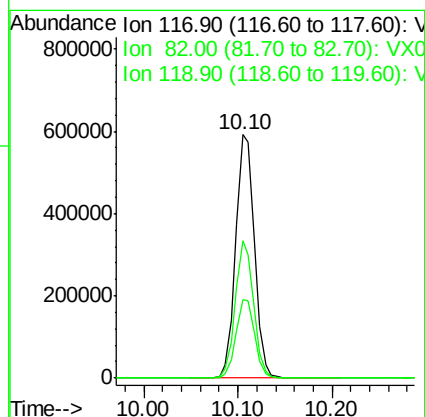
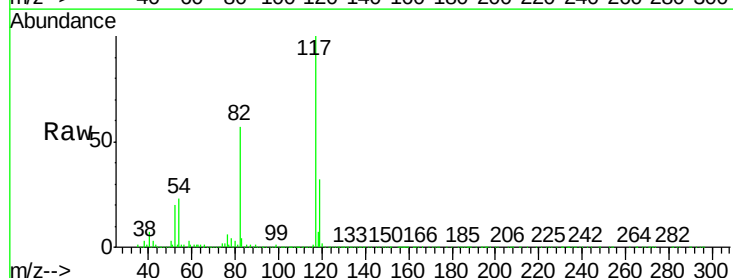
RT: 10.10 min Scan# 1512

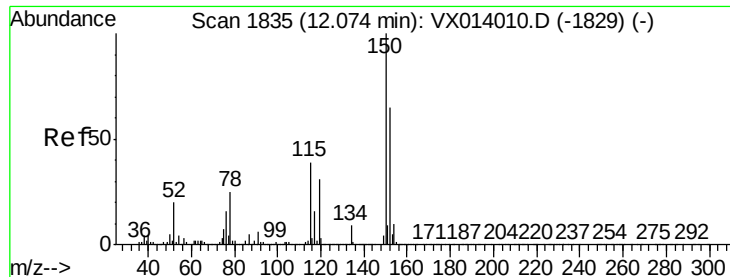
Delta R.T. -0.01 min

Lab File: VX014195.D

Acq: 23 Dec 2019 12:30

Tgt Ion:	117	Resp:	815844
Ion	Ratio	Lower	Upper
117	100		
82	56.6	42.2	63.4
119	32.3	25.1	37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX014195.D

Acq: 23 Dec 2019 12:30

Instrument :

MSVOA_X

ClientSampleId :

PB125652TB

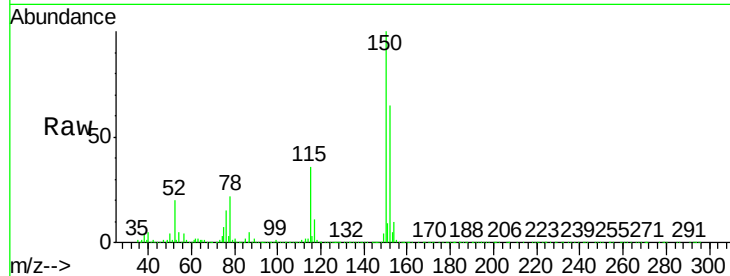
Tgt Ion: 152 Resp: 372663

Ion Ratio Lower Upper

152 100

115 54.9 38.3 114.9

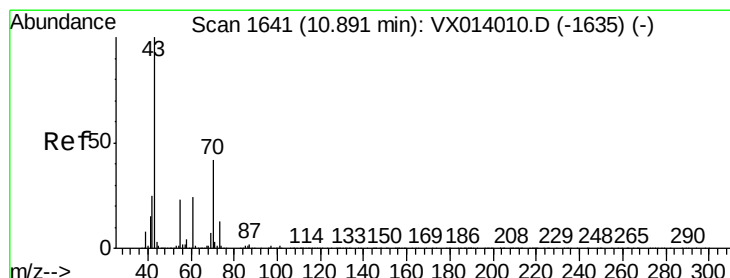
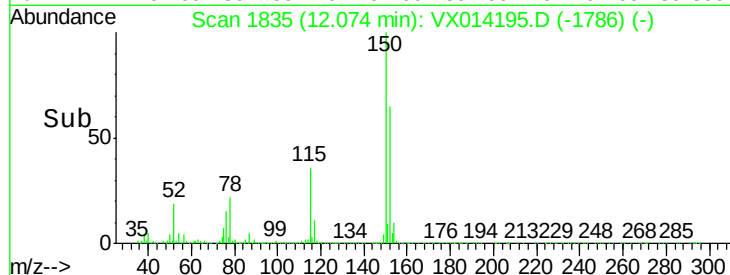
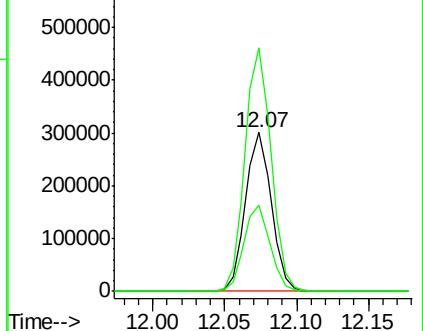
150 154.7 0.0 345.4



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: 0.549 ug/l

RT: 10.82 min Scan# 1629

Delta R.T. -0.07 min

Lab File: VX014195.D

Acq: 23 Dec 2019 12:30

Tgt Ion: 43 Resp: 6749

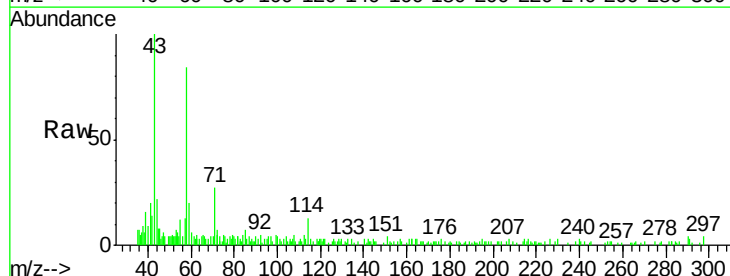
Ion Ratio Lower Upper

43 100

70 4.3 34.4 51.6#

55 11.3 19.1 28.7#

61 0.0 19.7 29.5#

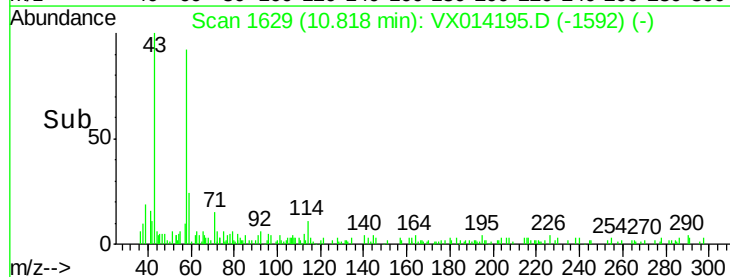
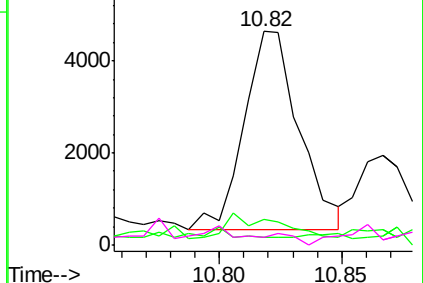


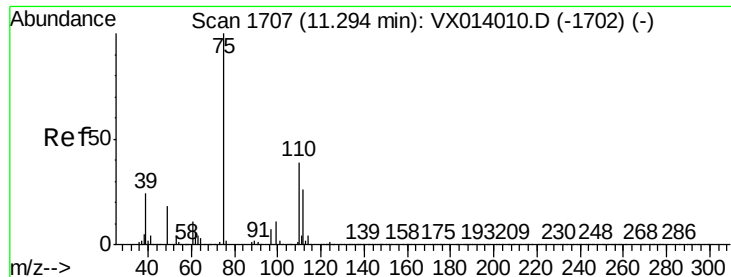
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.299 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014195.D

Acq: 23 Dec 2019 12:30

Instrument :

MSVOA_X

ClientSampleId :

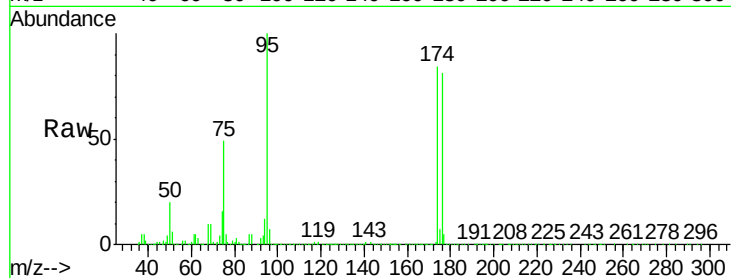
PB125652TB

Tgt Ion: 75 Resp: 180413

Ion Ratio Lower Upper

75 100

77 1.1 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

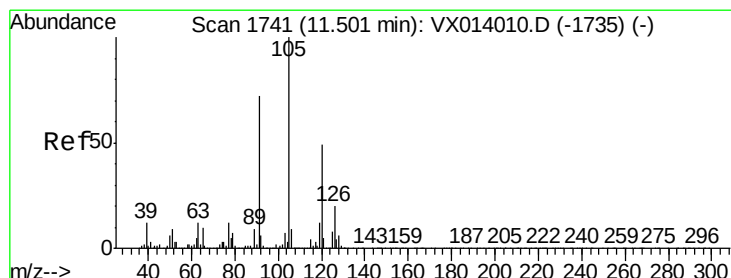
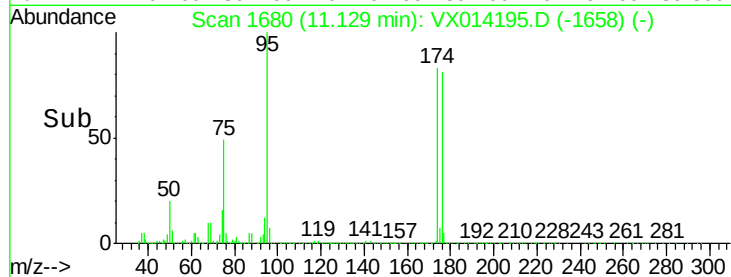
150000

100000

50000

0

Time--> 11.05 11.10 11.15 11.20



#80

1,3,5-Trimethylbenzene

Concen: 0.471 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX014195.D

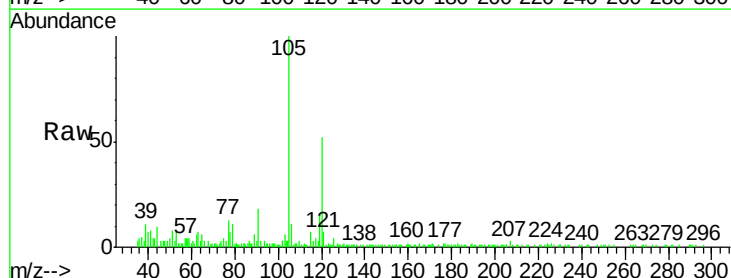
Acq: 23 Dec 2019 12:30

Tgt Ion: 105 Resp: 10403

Ion Ratio Lower Upper

105 100

120 55.1 25.3 75.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.50

10000

8000

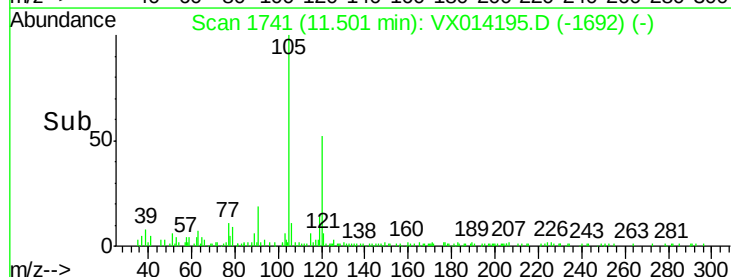
6000

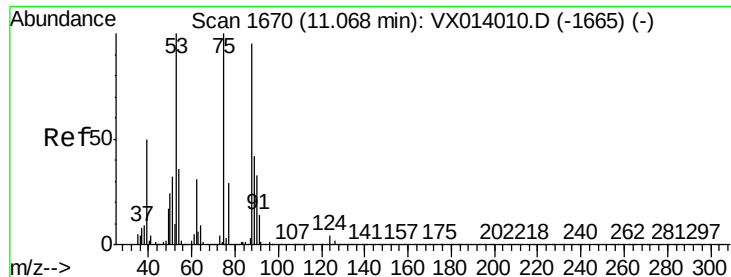
4000

2000

0

Time--> 11.45 11.50 11.55

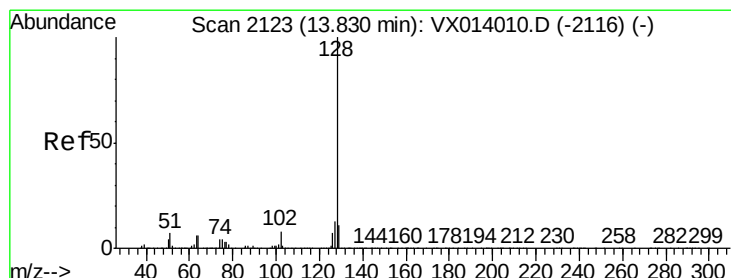
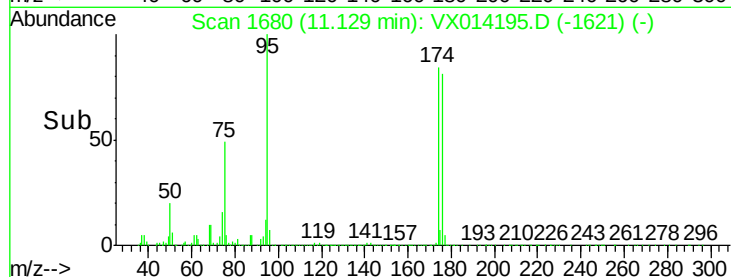
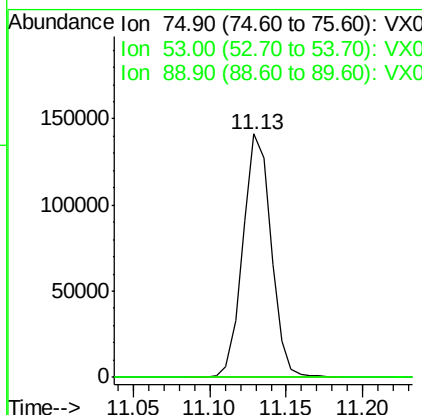
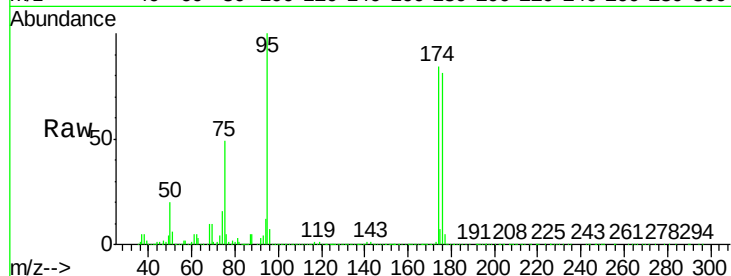




#81
trans-1,4-Dichloro-2-butene
Concen: 62.941 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX014195.D
Acq: 23 Dec 2019 12:30

Instrument :
MSVOA_X
ClientSampleId :
PB125652TB

Tgt Ion: 75 Resp: 180413
Ion Ratio Lower Upper
75 100
53 0.2 76.7 115.1#
89 0.0 34.6 51.8#



#95
Naphthalene
Concen: 0.258 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX014195.D
Acq: 23 Dec 2019 12:30

Tgt Ion: 128 Resp: 6273
Ion Ratio Lower Upper
128 100
127 19.8 10.2 15.4#
129 15.3 8.7 13.1#

