

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010920\
 Data File : VX014515.D
 Acq On : 09 Jan 2020 22:25
 Operator : JC/SP
 Sample : PB125963ZHE#08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB125963ZHE#08

Quant Time: Jan 10 06:53:08 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	523810	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	815399	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	748470	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	346214	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	287852	49.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.46%	
35) Dibromofluoromethane	5.49	113	242234	49.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.16%	
50) Toluene-d8	8.71	98	972435	50.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.54%	
62) 4-Bromofluorobenzene	11.14	95	334550	47.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.16%	

Target Compounds

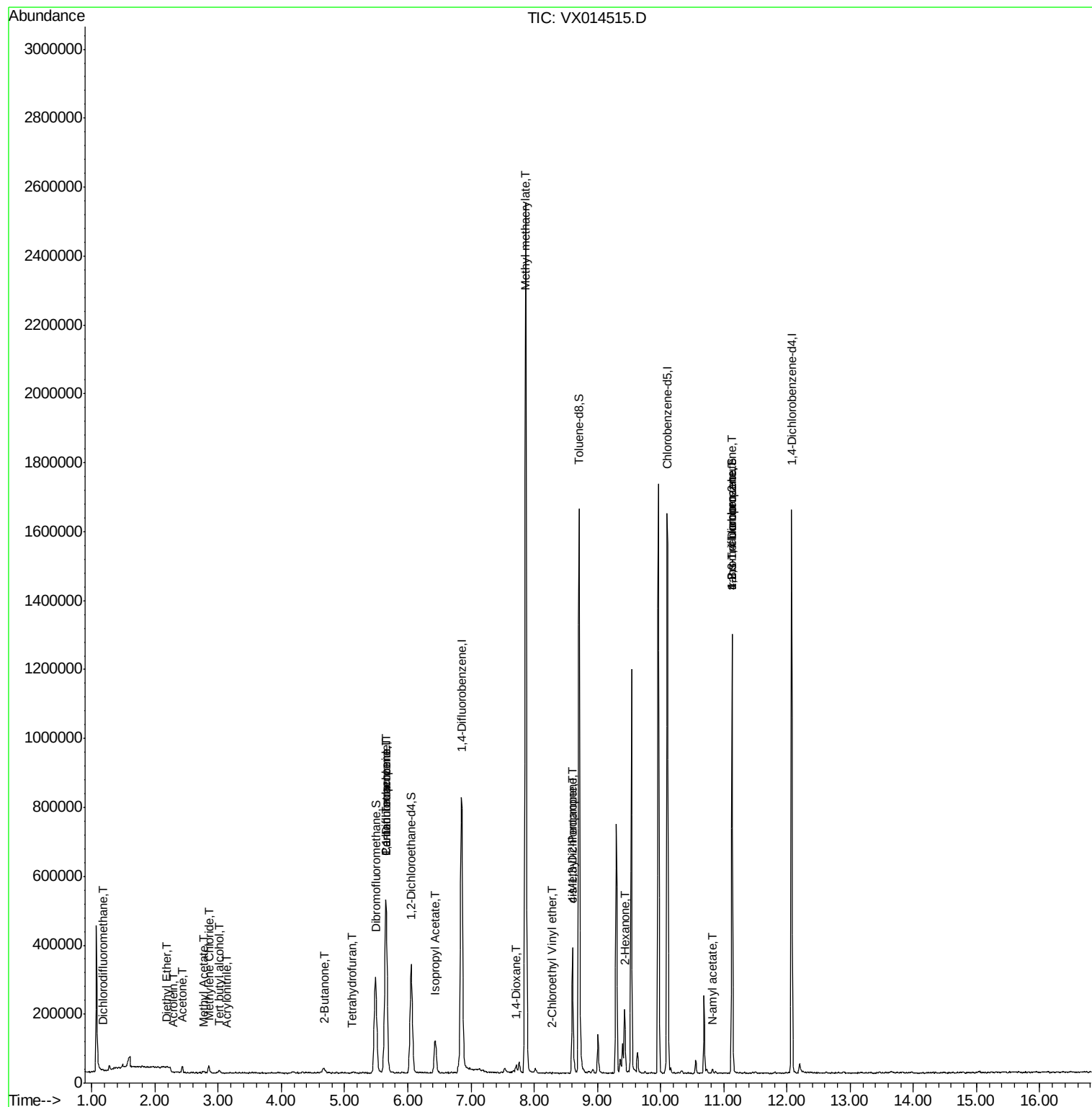
					Qvalue	
2) Dichlorodifluoromethane	1.18	85	33	0.258	ug/l #	62
6) Chloroethane	1.77	64	1315	Below Cal	#	43
8) Diethyl Ether	2.19	74	1205	0.313	ug/l	60
11) Tert butyl alcohol	3.01	59	3846	3.150	ug/l #	75
13) Acrolein	2.29	56	286	0.292	ug/l #	1
15) Acrylonitrile	3.14	53	1285	0.436	ug/l #	51
16) Acetone	2.43	43	23112	3.767	ug/l	97
18) Methyl Acetate	2.77	43	6637	0.790	ug/l #	84
20) Methylene Chloride	2.86	84	10764	1.830	ug/l	93
25) 2-Butanone	4.67	43	8296	1.899	ug/l #	88
29) Tetrahydrofuran	5.12	42	1077	0.417	ug/l #	42
36) 1,1-Dichloropropene	5.65	75	34988	4.563	ug/l #	51
38) Carbon Tetrachloride	5.66	117	45203	6.406	ug/l #	18
43) Isopropyl Acetate	6.43	43	129470	9.622	ug/l	98
48) Methyl methacrylate	7.86	41	211162	32.767	ug/l #	43
49) 1,4-Dioxane	7.72	88	247	1.809	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	124841	15.226	ug/l #	45
54) cis-1,3-Dichloropropene	8.61	75	59474	6.417	ug/l #	58
58) 2-Chloroethyl Vinyl ether	8.29	63	856	0.281	ug/l #	59
59) 2-Hexanone	9.43	43	151716	23.386	ug/l #	23
74) N-amyl acetate	10.82	43	7924	0.739	ug/l #	48
76) 1,2,3-Trichloropropane	11.13	75	164412	22.952	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	164412	60.681	ug/l #	12
88) 1,4-Dichlorobenzene	12.08	146	753	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	13.45	180	313	Below Cal		86
96) 1,2,3-Trichlorobenzene	14.01	180	307	Below Cal	#	35

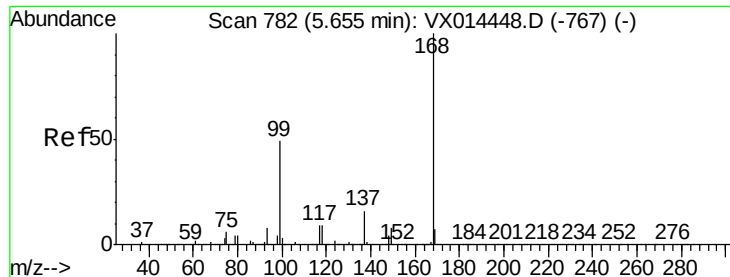
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014515.D

Acq: 09 Jan 2020 22:25

Instrument :

MSVOA_X

ClientSampleId :

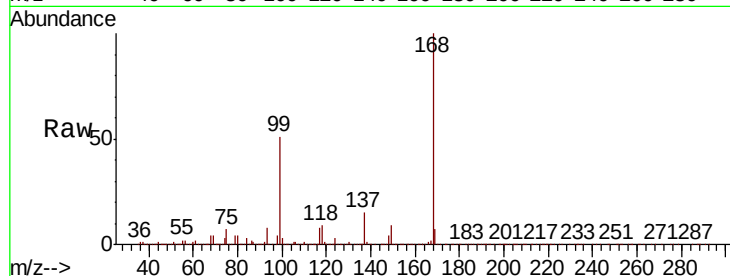
PB125963ZHE#08

Tot Ion:168 Resp: 523810

Ion Ratio Lower Upper

168 100

99 50.7 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

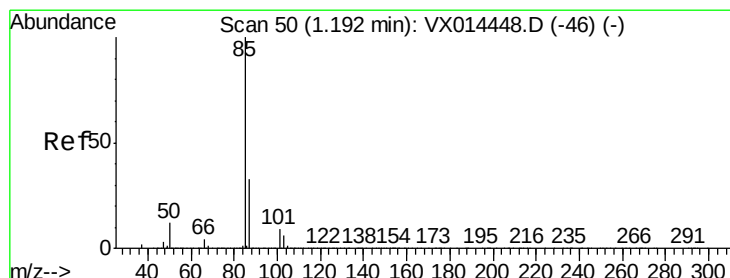
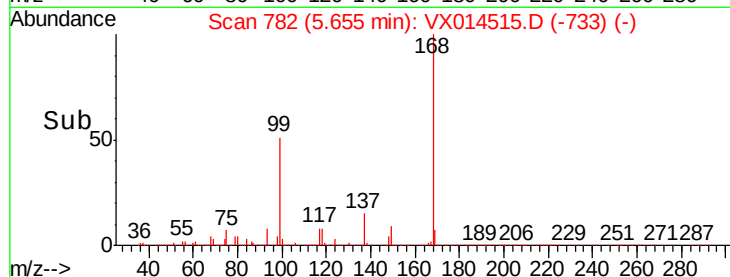
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.258 ug/l

RT: 1.18 min Scan# 48

Delta R.T. -0.01 min

Lab File: VX014515.D

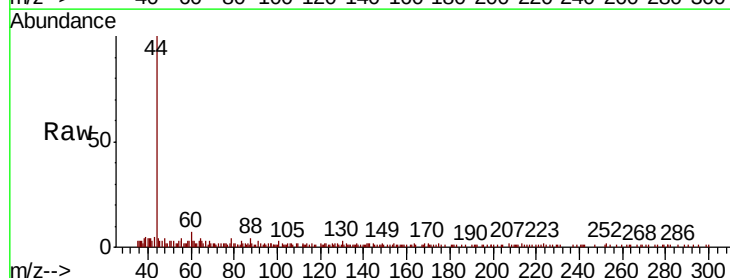
Acq: 09 Jan 2020 22:25

Tgt Ion: 85 Resp: 33

Ion Ratio Lower Upper

85 100

87 11.3 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

300

250

200

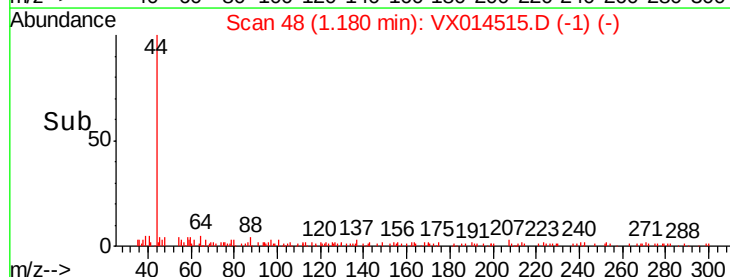
150

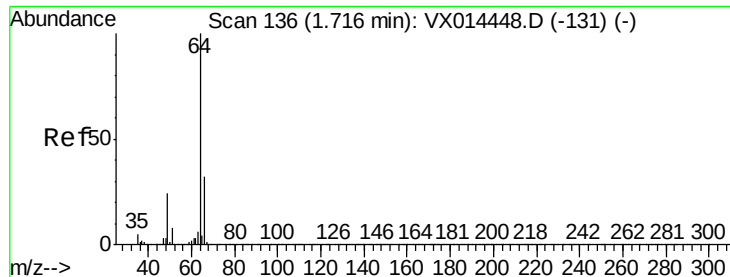
100

50

0

Time--> 1.17 1.18 1.18 1.19 1.19





#6

Chloroethane

Concen: Below Cal

RT: 1.77 min Scan# 144

Delta R.T. 0.05 min

Lab File: VX014515.D

Acq: 09 Jan 2020 22:25

Instrument :

MSVOA_X

ClientSampleId :

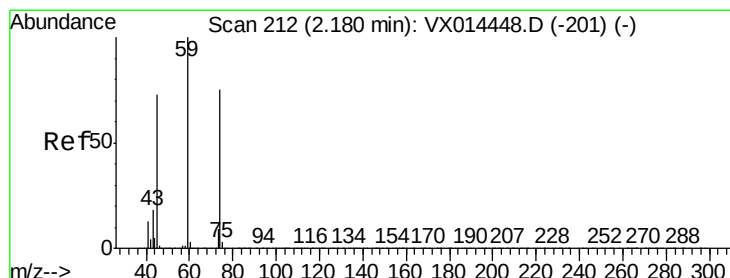
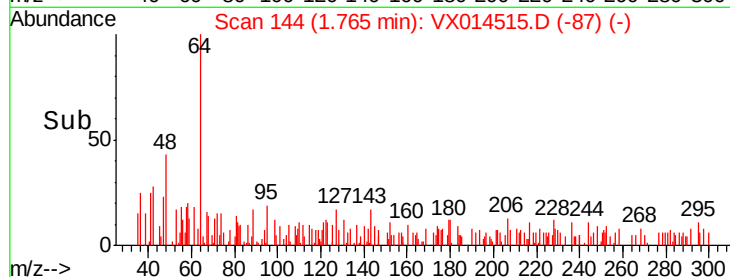
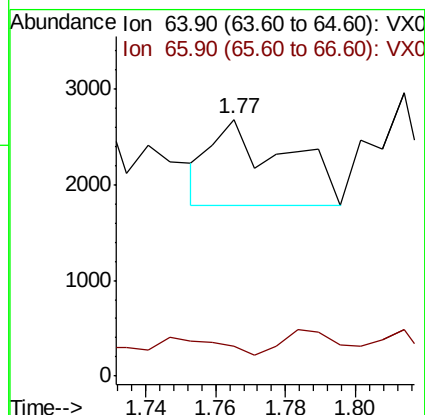
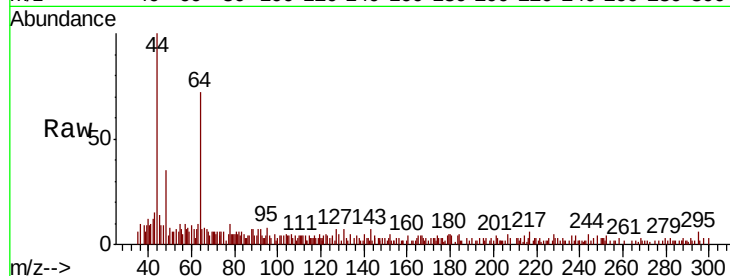
PB125963ZHE#08

Tot Ion: 64 Resp: 1315

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



#8

Diethyl Ether

Concen: 0.313 ug/l

RT: 2.19 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX014515.D

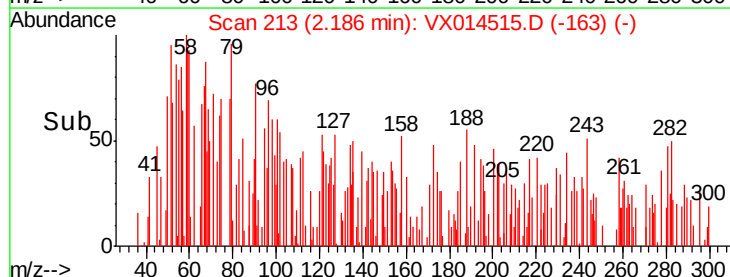
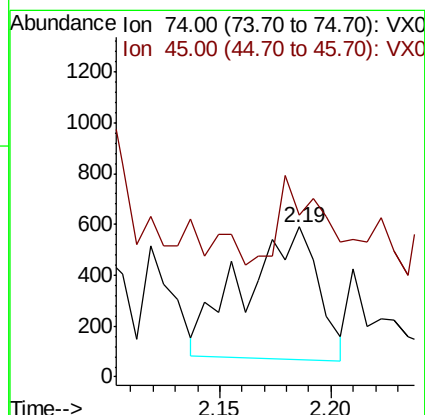
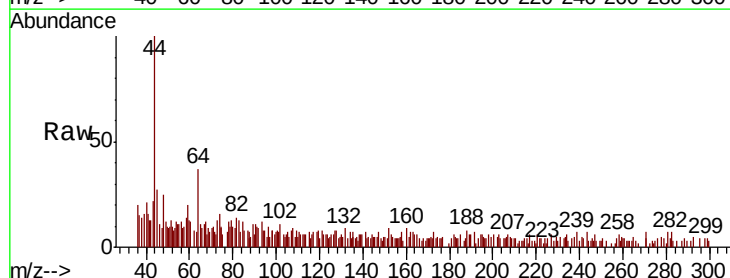
Acq: 09 Jan 2020 22:25

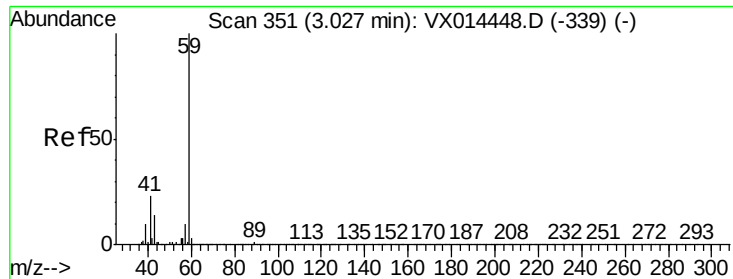
Tgt Ion: 74 Resp: 1205

Ion Ratio Lower Upper

74 100

45 58.3 48.7 146.1



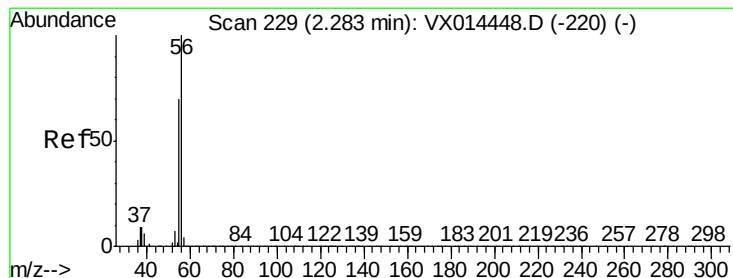
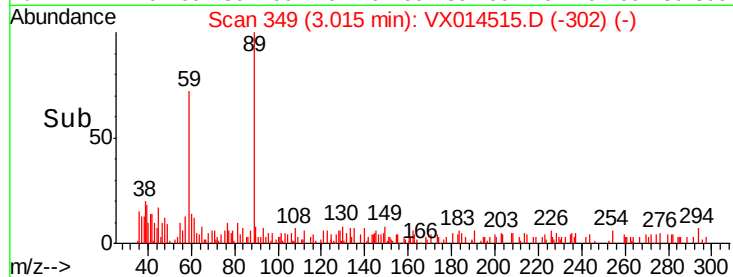
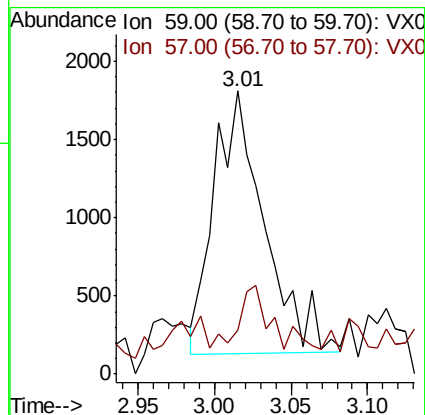
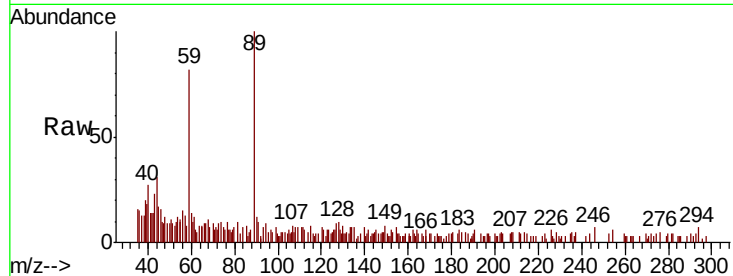


#11

Tert butyl alcohol
Concen: 3.150 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.01 min
Lab File: VX014515.D
Acq: 09 Jan 2020 22:25

Instrument :
MSVOA_X
ClientSampleId :
PB125963ZHE#08

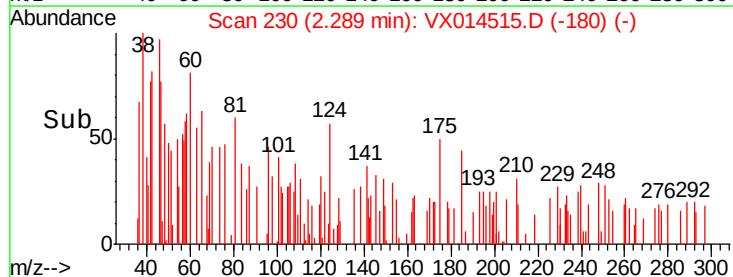
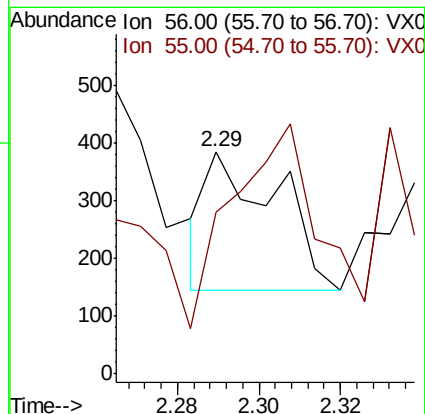
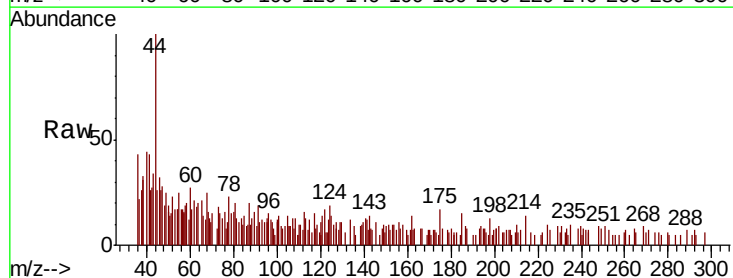
Tot Ion: 59 Resp: 3846
Ion Ratio Lower Upper
59 100
57 19.9 8.5 12.7#

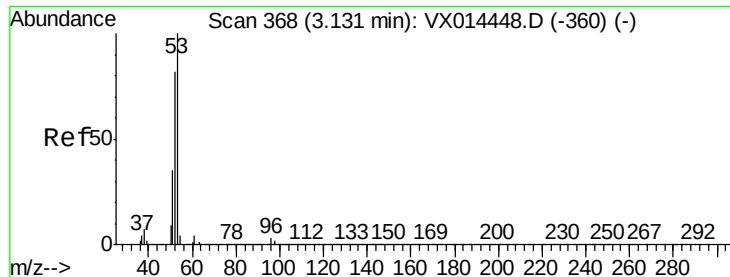


#13

Acrolein
Concen: 0.292 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX014515.D
Acq: 09 Jan 2020 22:25

Tgt Ion: 56 Resp: 286
Ion Ratio Lower Upper
56 100
55 182.5 55.0 82.6#





#15

Acrylonitrile

Concen: 0.436 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

Lab File: VX014515.D

Acq: 09 Jan 2020 22:25

Instrument :

MSVOA_X

ClientSampleId :

PB125963ZHE#08

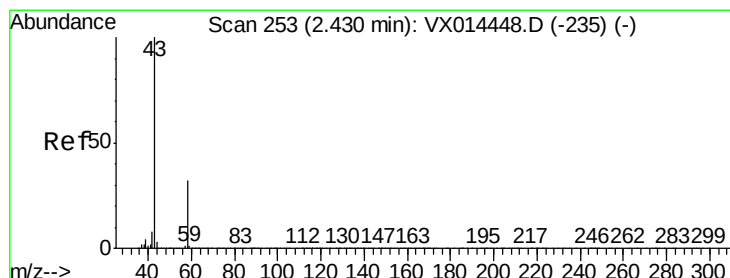
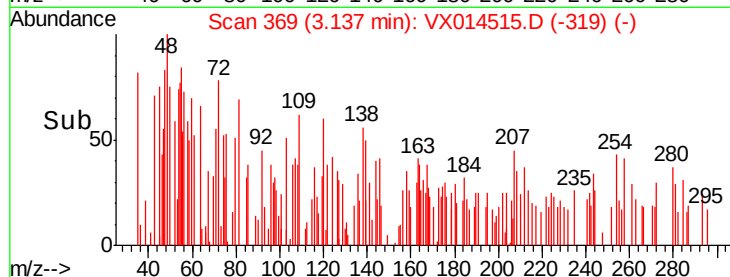
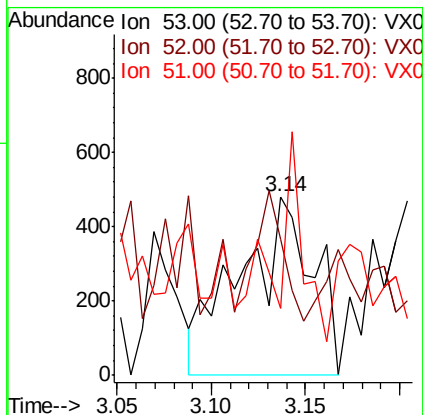
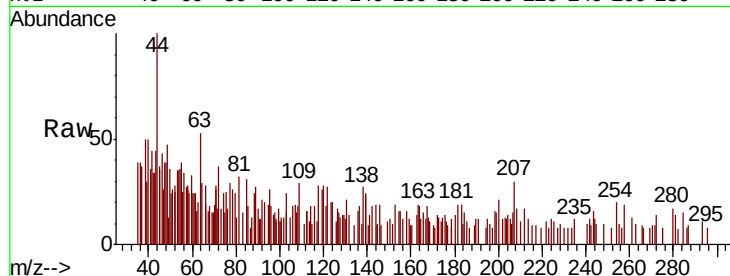
Tot Ion: 53 Resp: 1285

Ion Ratio Lower Upper

53 100

52 28.6 67.0 100.4#

51 47.1 28.5 42.7#



#16

Acetone

Concen: 3.767 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014515.D

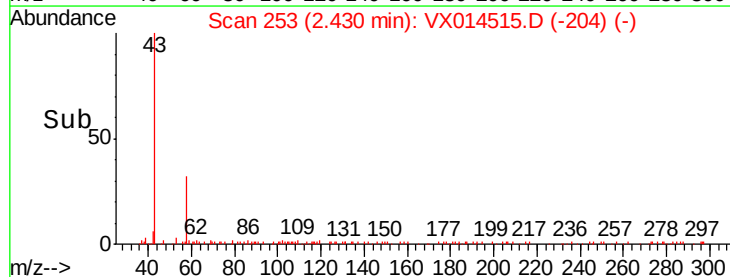
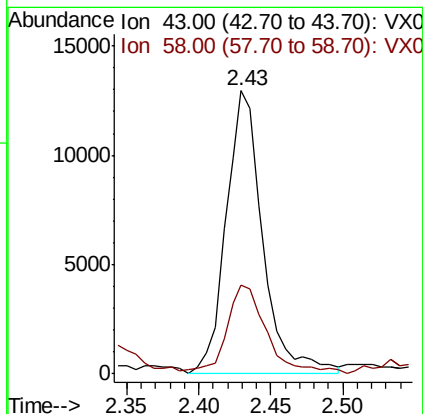
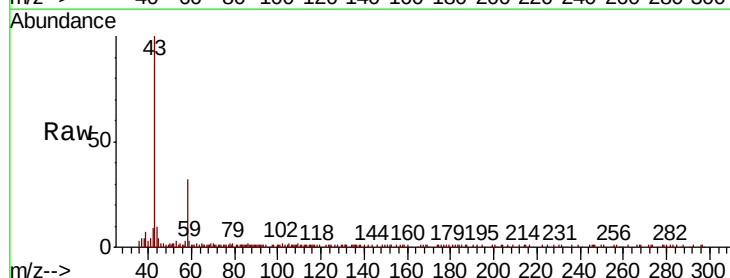
Acq: 09 Jan 2020 22:25

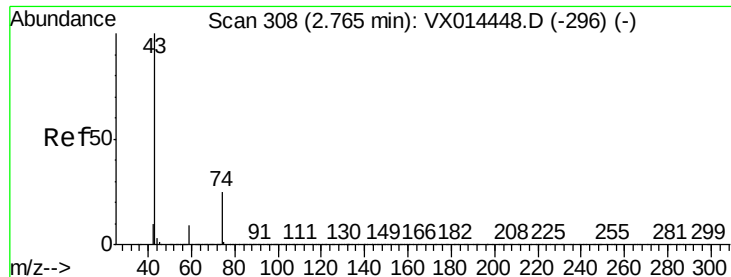
Tgt Ion: 43 Resp: 23112

Ion Ratio Lower Upper

43 100

58 30.1 25.4 38.0

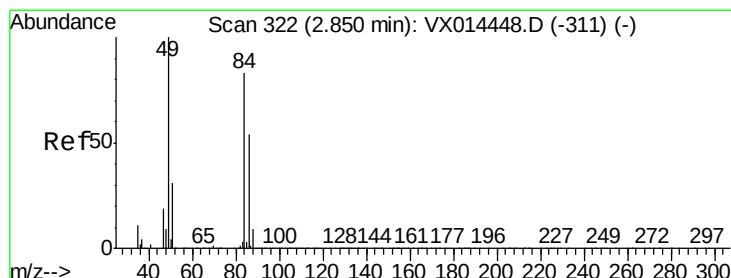
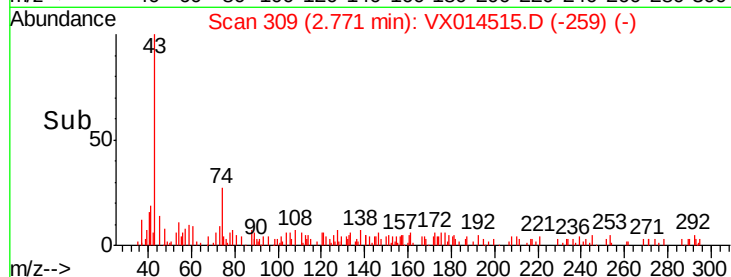
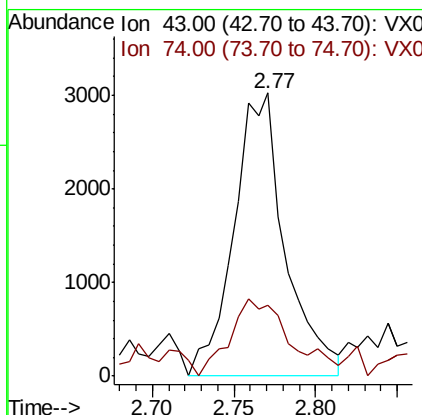
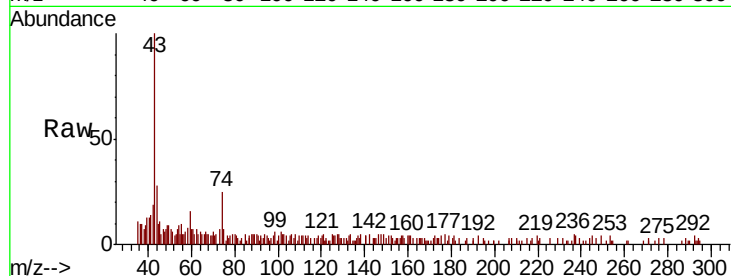




#18
Methyl Acetate
Concen: 0.790 ug/l
RT: 2.77 min Scan# 309
Delta R.T. 0.01 min
Lab File: VX014515.D
Acq: 09 Jan 2020 22:25

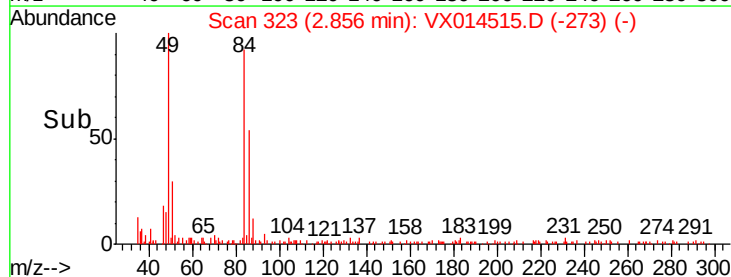
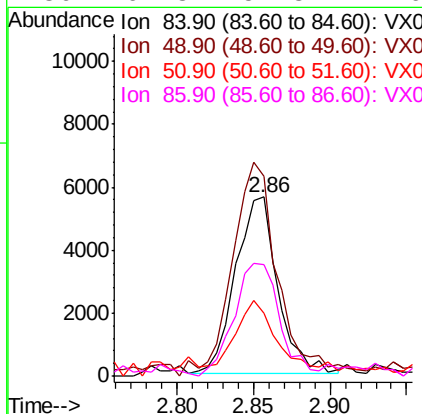
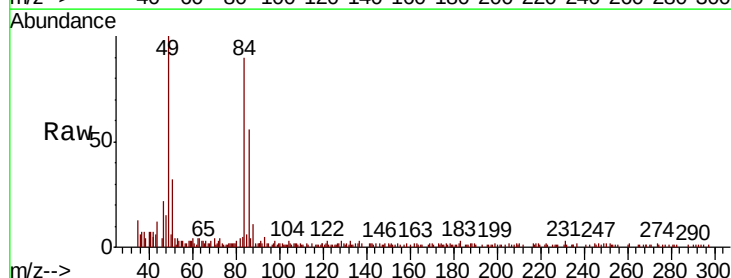
Instrument :
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PB125963ZHE#08

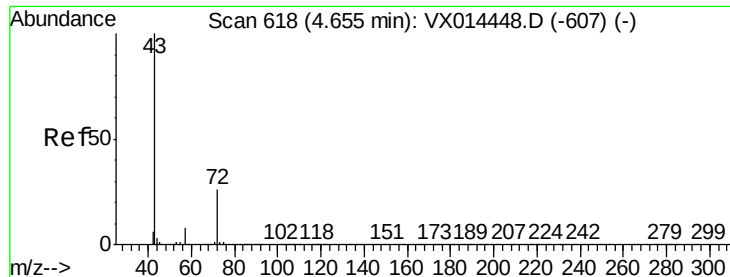
Tot Ion: 43 Resp: 6637
Ion Ratio Lower Upper
43 100
74 32.1 19.4 29.2#



#20
Methylene Chloride
Concen: 1.830 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX014515.D
Acq: 09 Jan 2020 22:25

Tgt Ion: 84 Resp: 10764
Ion Ratio Lower Upper
84 100
49 108.4 95.8 143.8
51 33.5 30.2 45.4
86 62.8 51.8 77.6





#25

2-Butanone

Concen: 1.899 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX014515.D

Acq: 09 Jan 2020 22:25

Instrument :

MSVOA_X

ClientSampleId :

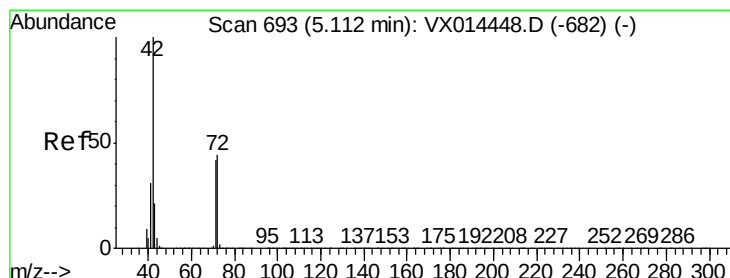
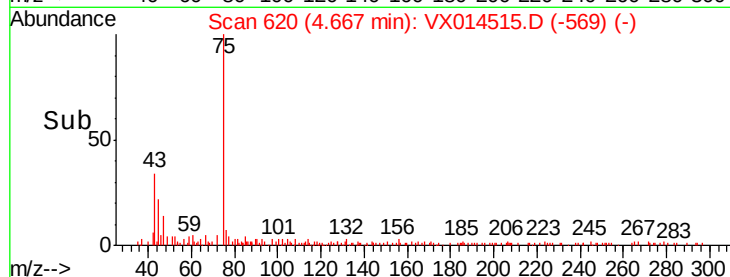
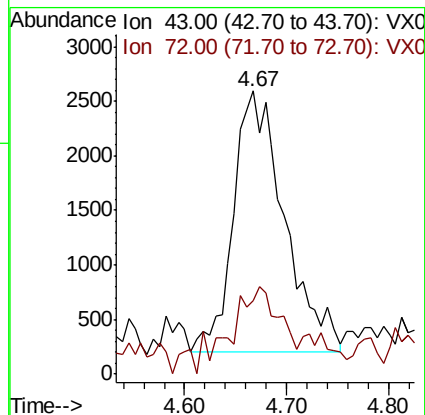
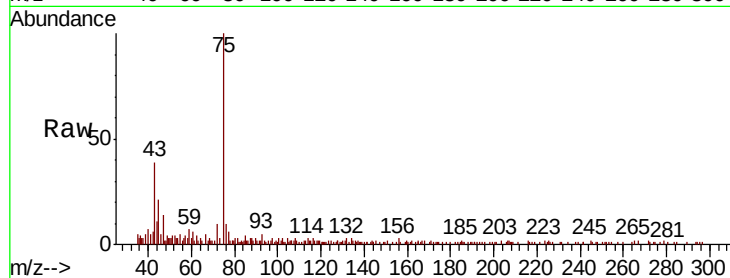
PB125963ZHE#08

Tot Ion: 43 Resp: 8296

Ion Ratio Lower Upper

43 100

72 19.5 20.6 31.0#



#29

Tetrahydrofuran

Concen: 0.417 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.01 min

Lab File: VX014515.D

Acq: 09 Jan 2020 22:25

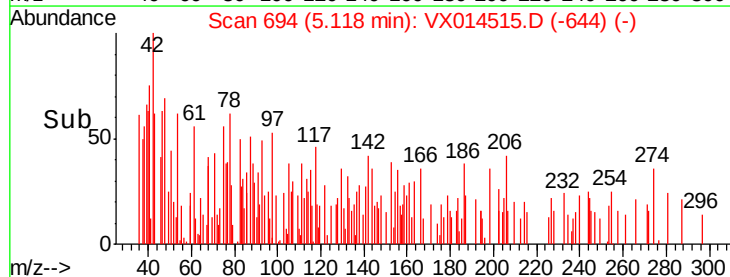
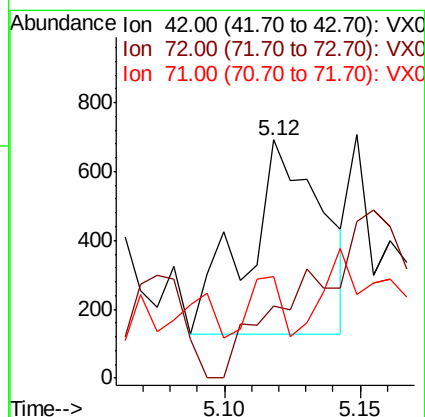
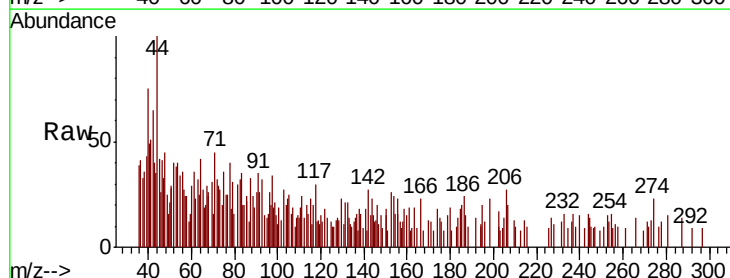
Tgt Ion: 42 Resp: 1077

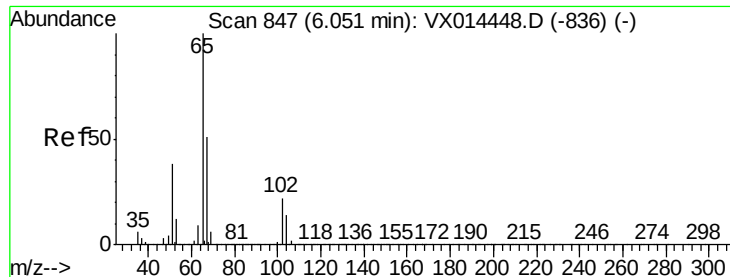
Ion Ratio Lower Upper

42 100

72 0.0 36.2 54.4#

71 13.2 34.1 51.1#

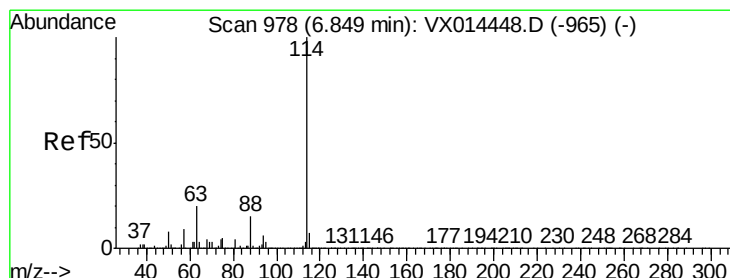
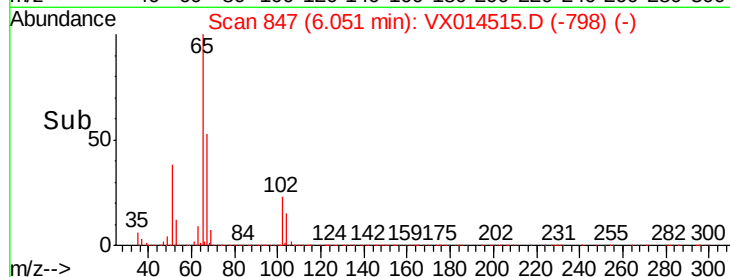
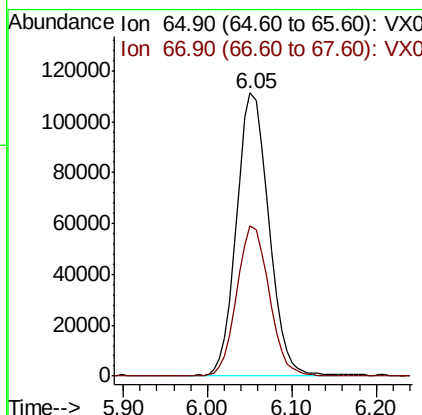
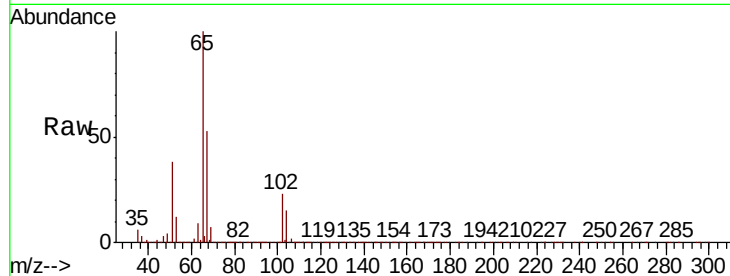




#33
 1,2-Dichloroethane-d4
 Concen: 49.227 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX014515.D
 Acq: 09 Jan 2020 22:25

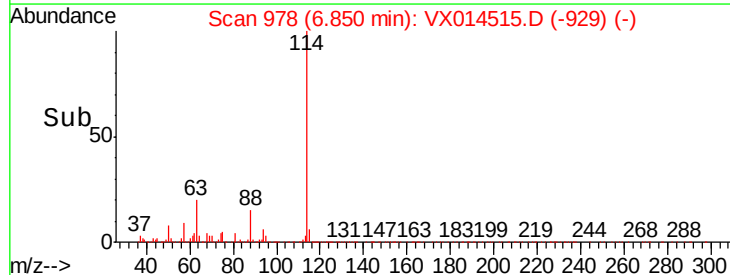
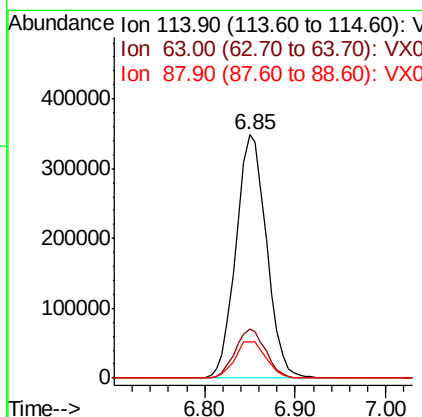
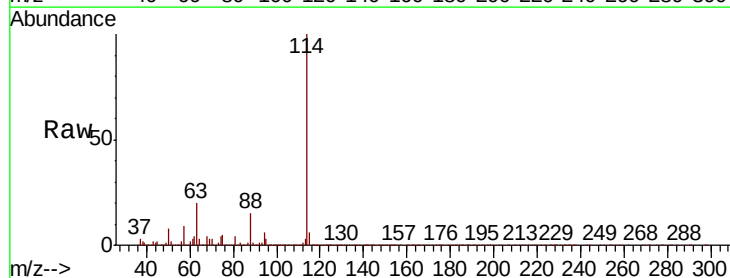
Instrument :
 MSVOA_X
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 PB125963ZHE#08

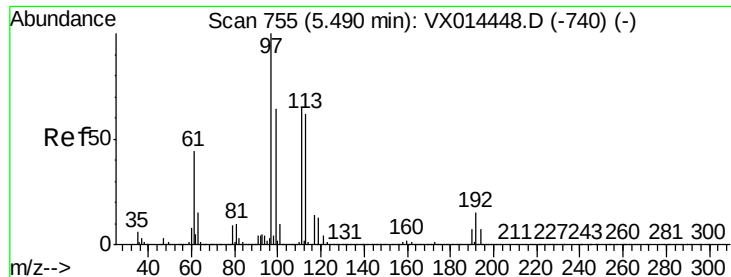
Tot Ion: 65 Resp: 287852
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014515.D
 Acq: 09 Jan 2020 22:25

Tgt Ion: 114 Resp: 815399
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 39.6
 88 15.1 0.0 30.8





#35

Dibromofluoromethane

Concen: 49.075 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014515.D

Acq: 09 Jan 2020 22:25

Instrument :

MSVOA_X

ClientSampleId :

PB125963ZHE#08

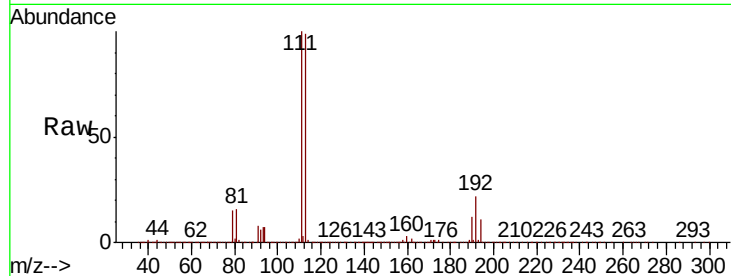
Tot Ion:113 Resp: 242234

Ion Ratio Lower Upper

113 100

111 102.7 81.5 122.3

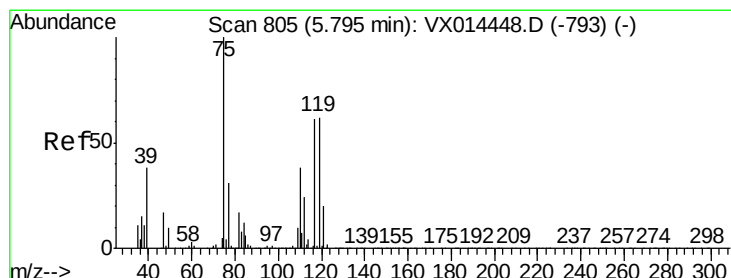
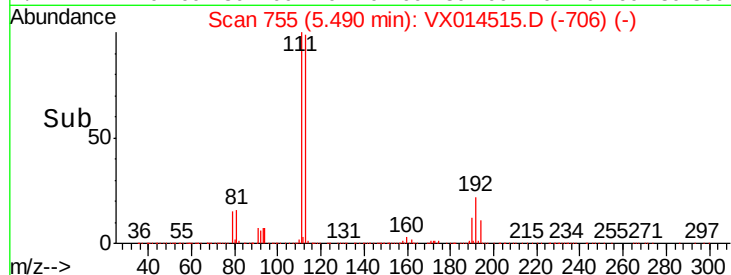
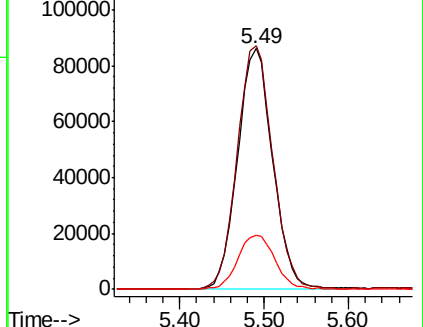
192 23.9 19.2 28.8



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: 4.563 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.14 min

Lab File: VX014515.D

Acq: 09 Jan 2020 22:25

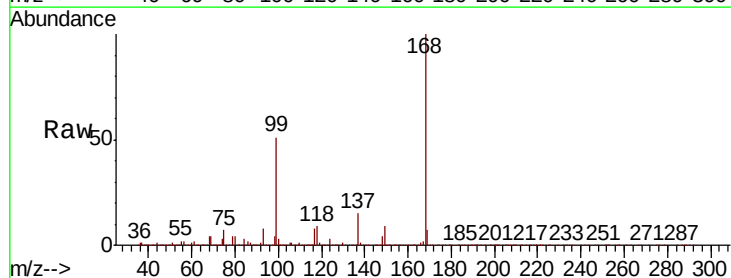
Tgt Ion: 75 Resp: 34988

Ion Ratio Lower Upper

75 100

110 9.2 18.6 55.8#

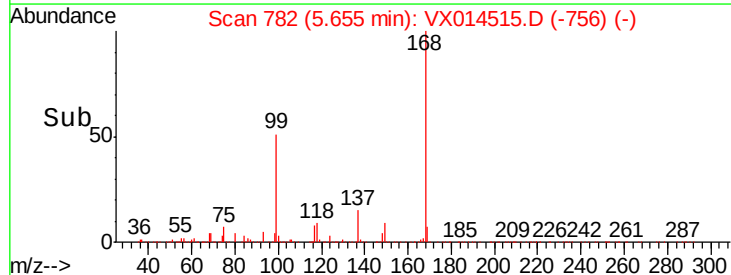
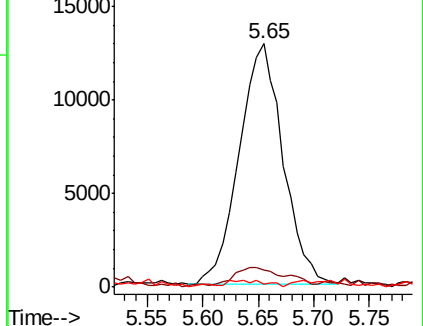
77 2.4 24.5 36.7#

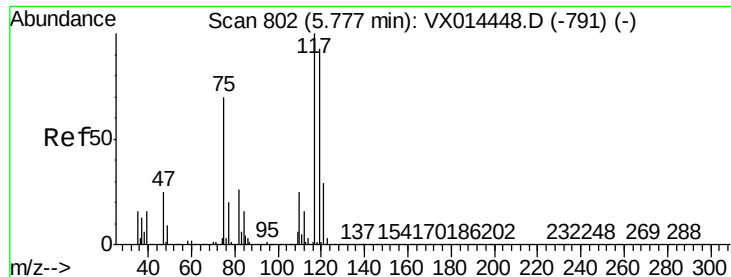


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.406 ug/l

RT: 5.66 min Scan# 783

Delta R.T. -0.12 min

Lab File: VX014515.D

Acq: 09 Jan 2020 22:25

Instrument :

MSVOA_X

ClientSampleId :

PB125963ZHE#08

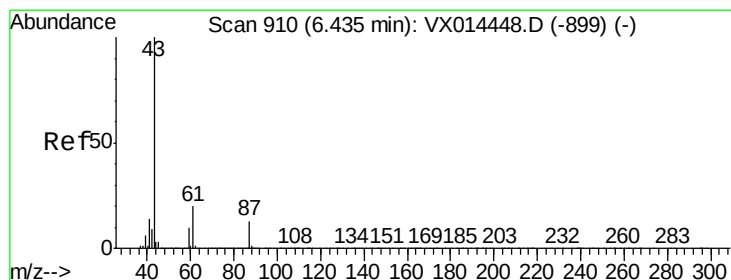
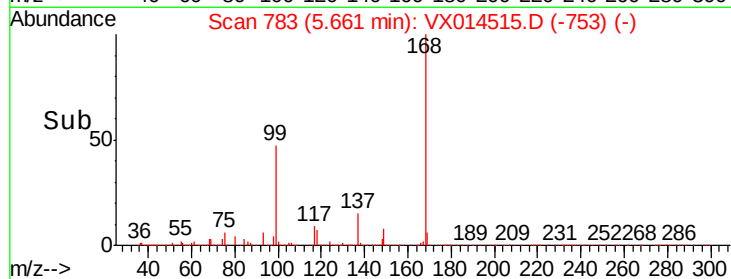
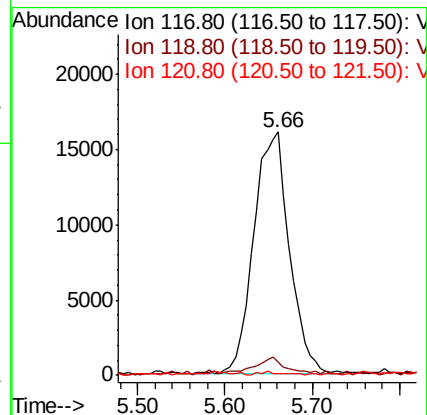
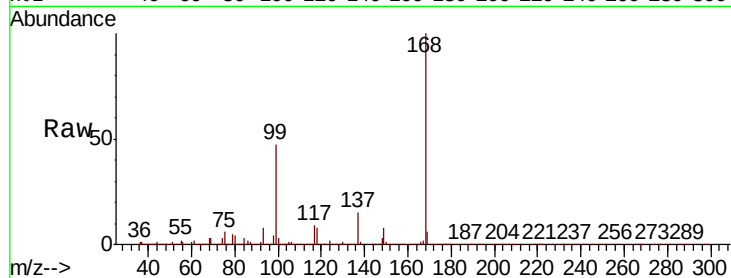
Tot Ion:117 Resp: 45203

Ion Ratio Lower Upper

117 100

119 4.9 73.8 110.8#

121 0.3 23.4 35.0#



#43

Isopropyl Acetate

Concen: 9.622 ug/l

RT: 6.43 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX014515.D

Acq: 09 Jan 2020 22:25

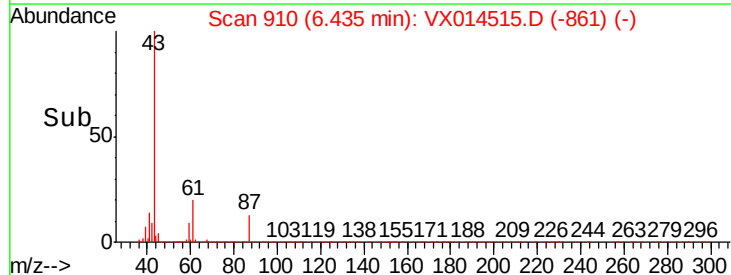
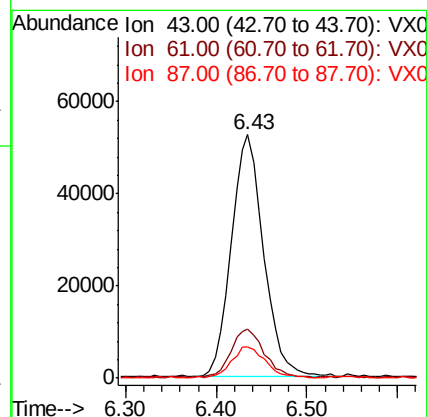
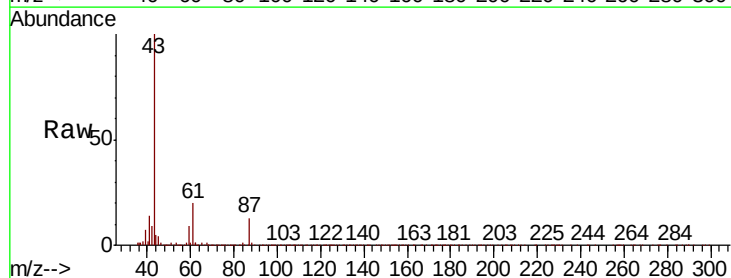
Tgt Ion: 43 Resp: 129470

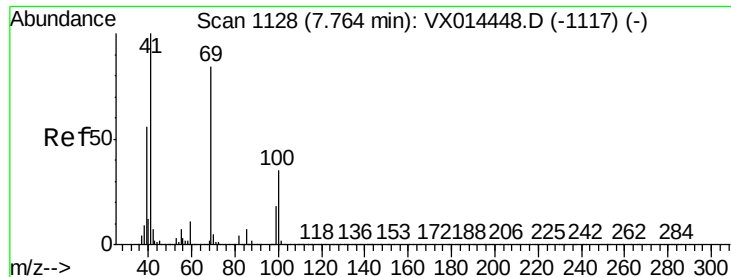
Ion Ratio Lower Upper

43 100

61 21.6 16.6 24.8

87 14.0 10.8 16.2

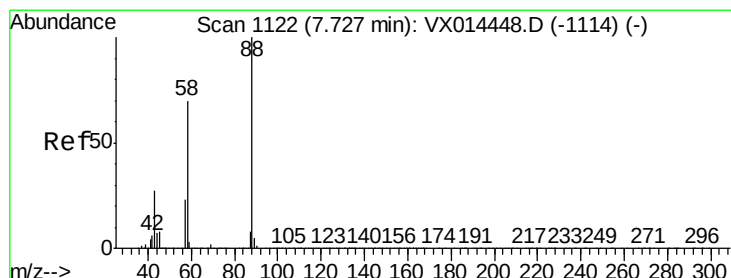
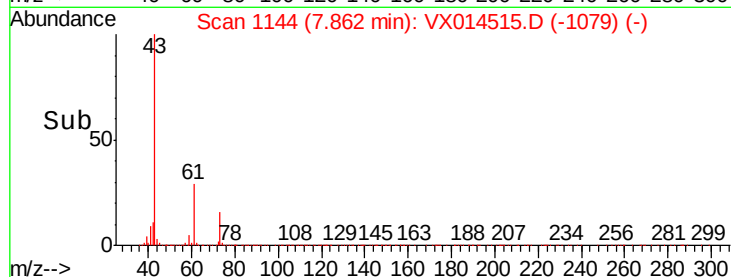
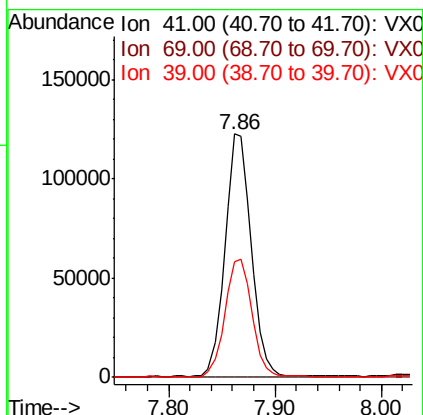
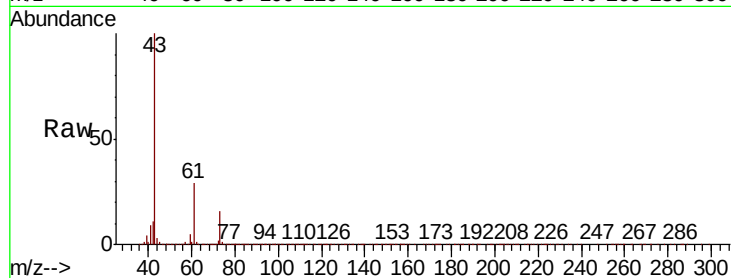




#48
Methvl methacrylate
Concen: 32.767 ug/l
RT: 7.86 min Scan# 1144
Delta R.T. 0.10 min
Lab File: VX014515.D
Acq: 09 Jan 2020 22:25

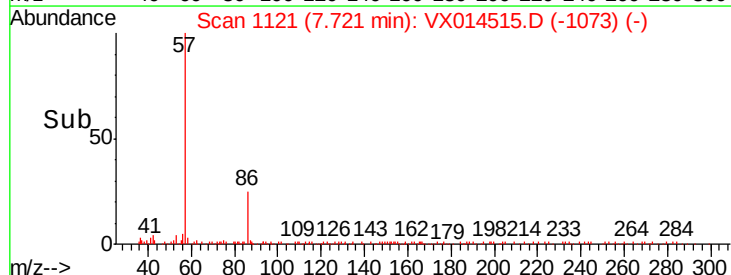
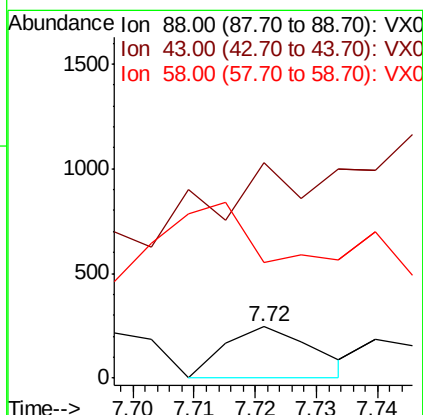
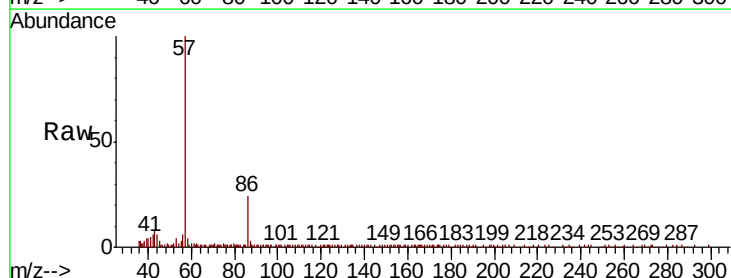
Instrument :
MSVOA_X
ClientSampleId :
PB125963ZHE#08

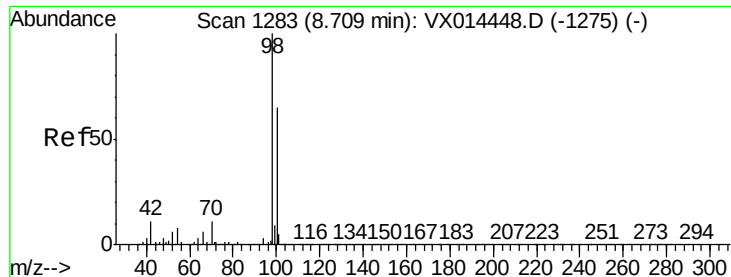
Tot Ion: 41 Resp: 211162
Ion Ratio Lower Upper
41 100
69 0.3 65.5 98.3#
39 50.3 43.9 65.9



#49
1,4-Dioxane
Concen: 1.809 ug/l
RT: 7.72 min Scan# 1121
Delta R.T. -0.01 min
Lab File: VX014515.D
Acq: 09 Jan 2020 22:25

Tgt Ion: 88 Resp: 247
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 490.7 57.1 85.7#





#50

Toluene-d8

Concen: 50.767 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014515.D

Acq: 09 Jan 2020 22:25

Instrument :

MSVOA_X

ClientSampleId :

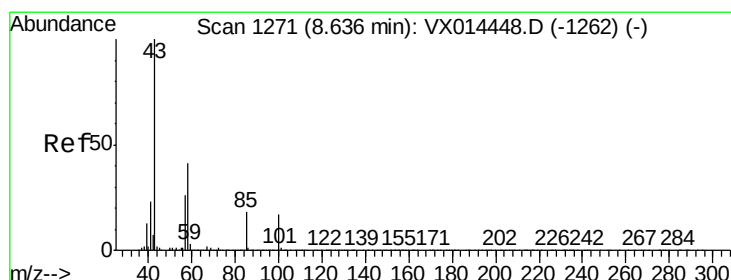
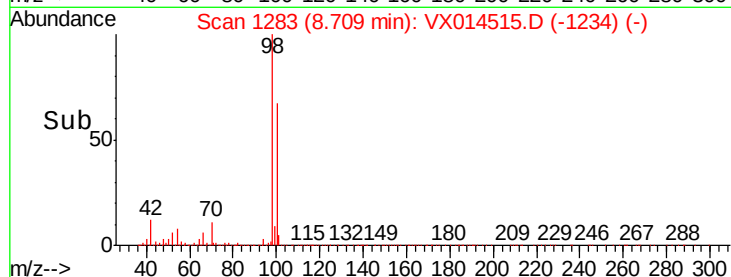
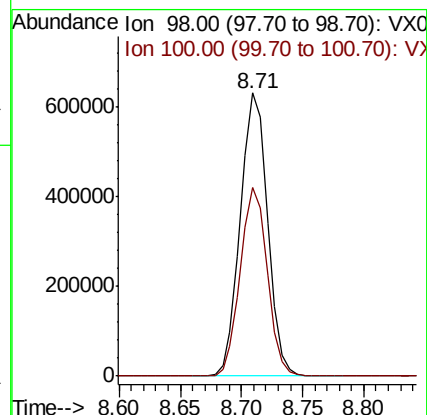
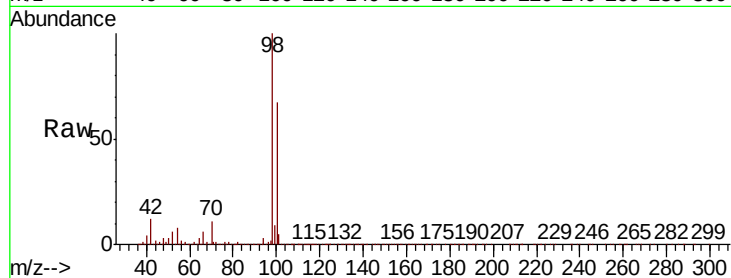
PB125963ZHE#08

Tot Ion: 98 Resp: 972435

Ion Ratio Lower Upper

98 100

100 66.0 53.2 79.8



#51

4-Methyl-2-Pentanone

Concen: 15.226 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014515.D

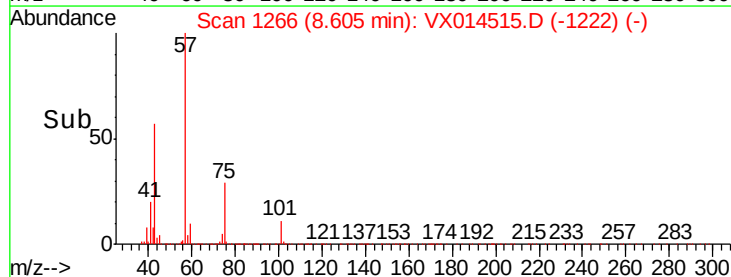
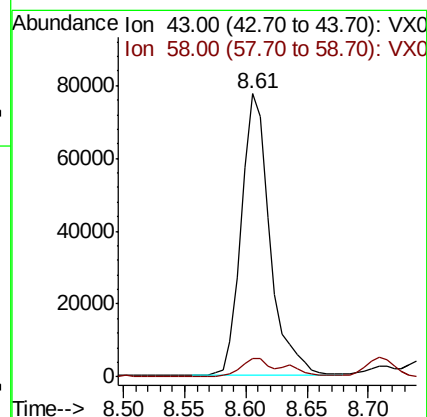
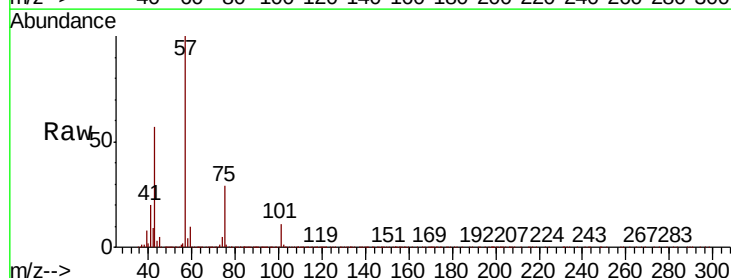
Acq: 09 Jan 2020 22:25

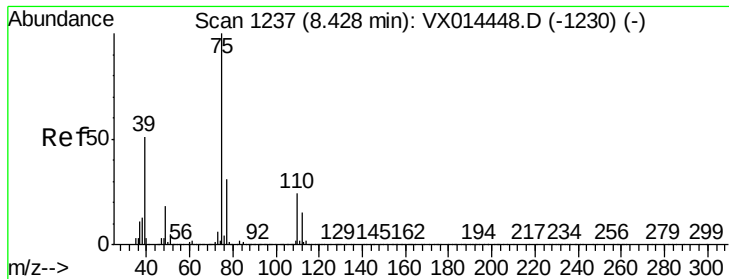
Tgt Ion: 43 Resp: 124841

Ion Ratio Lower Upper

43 100

58 6.1 32.4 48.6#





#54

cis-1,3-Dichloropropene

Concen: 6.417 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. 0.18 min

Lab File: VX014515.D

Acq: 09 Jan 2020 22:25

Instrument :

MSVOA_X

ClientSampleId :

PB125963ZHE#08

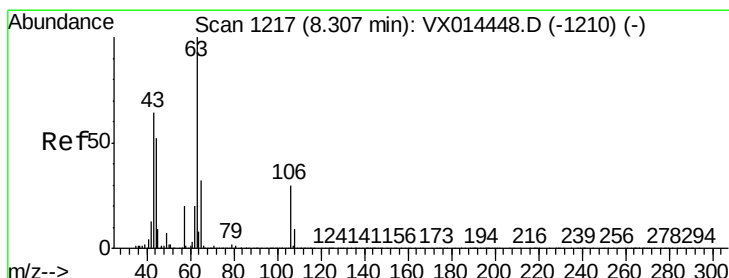
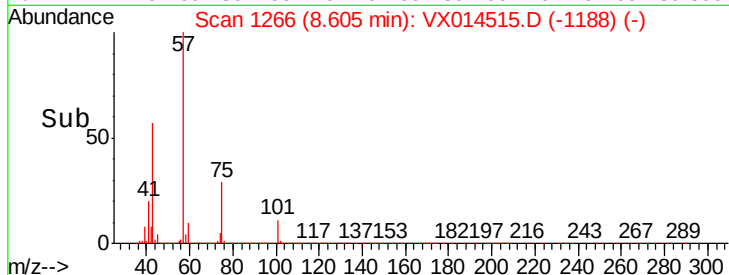
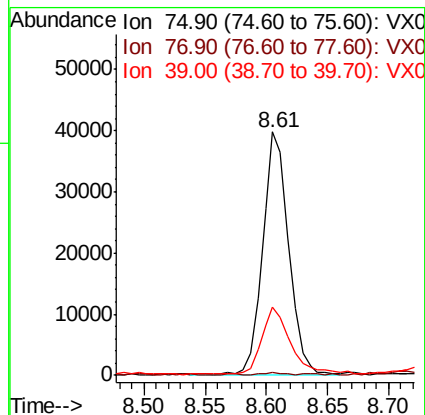
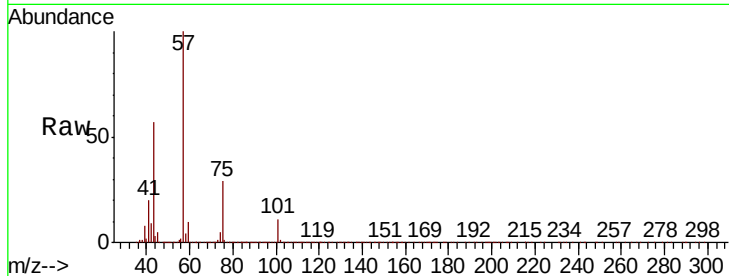
Tot Ion: 75 Resp: 59474

Ion Ratio Lower Upper

75 100

77 0.7 25.0 37.4#

39 27.0 40.7 61.1#



#58

2-Chloroethyl Vinyl ether

Concen: 0.281 ug/l

RT: 8.29 min Scan# 1214

Delta R.T. -0.02 min

Lab File: VX014515.D

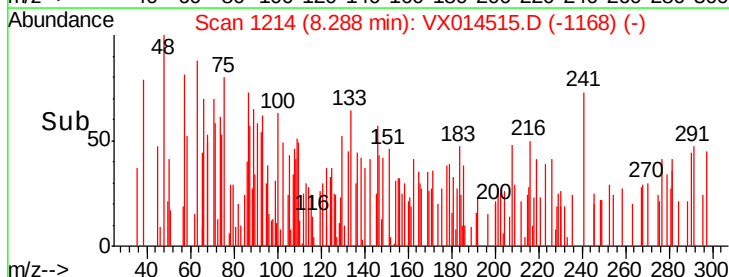
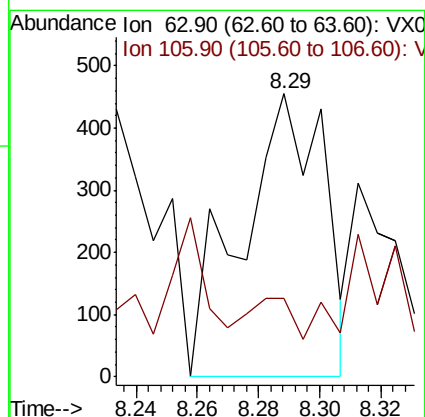
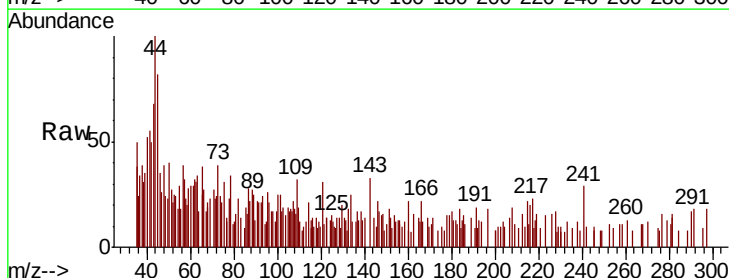
Acq: 09 Jan 2020 22:25

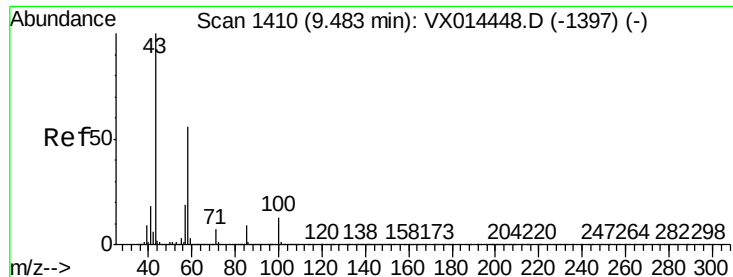
Tgt Ion: 63 Resp: 856

Ion Ratio Lower Upper

63 100

106 7.6 23.6 35.4#

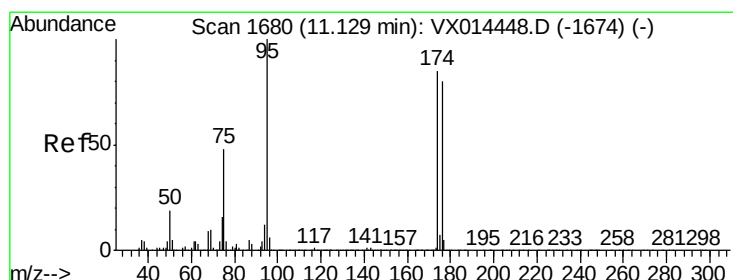
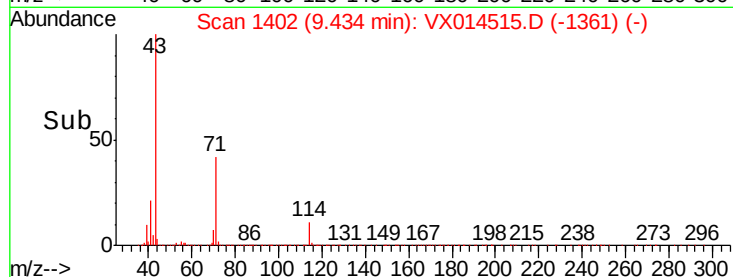
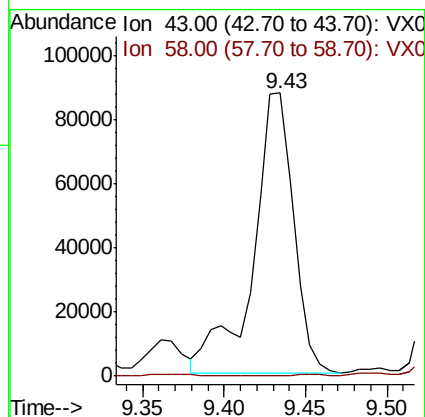
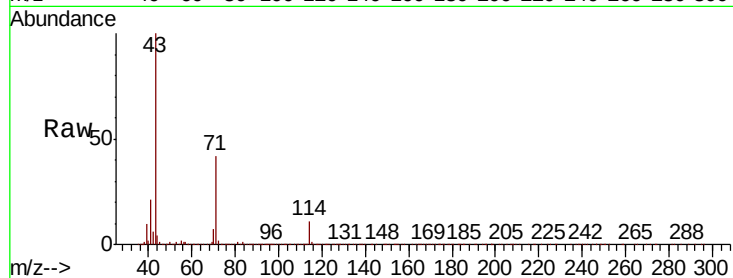




#59
2-Hexanone
Concen: 23.386 ug/l
RT: 9.43 min Scan# 1402
Delta R.T. -0.05 min
Lab File: VX014515.D
Acq: 09 Jan 2020 22:25

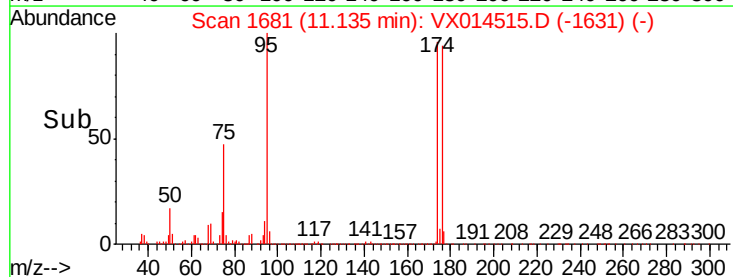
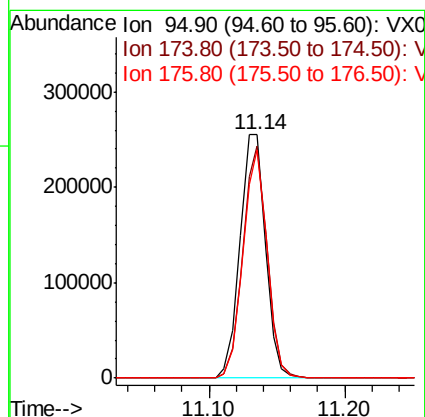
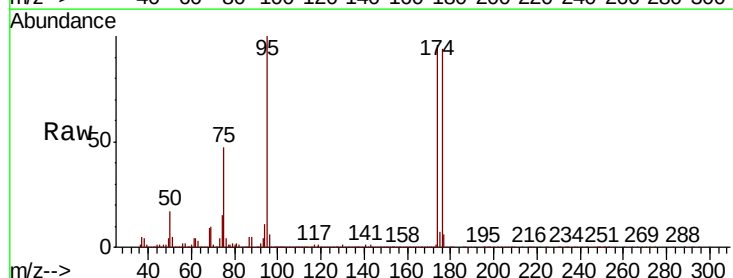
Instrument :
MSVOA_X
ClientSampleId :
PB125963ZHE#08

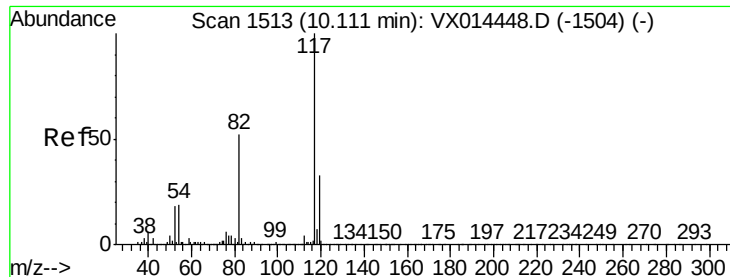
Tot Ion: 43 Resp: 151716
Ion Ratio Lower Upper
43 100
58 0.0 27.9 83.7#



#62
4-Bromofluorobenzene
Concen: 47.576 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX014515.D
Acq: 09 Jan 2020 22:25

Tgt Ion: 95 Resp: 334550
Ion Ratio Lower Upper
95 100
174 90.5 0.0 180.8
176 88.2 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: VX014515.D

Acq: 09 Jan 2020 22:25

Instrument :

MSVOA_X

ClientSampleId :

PB125963ZHE#08

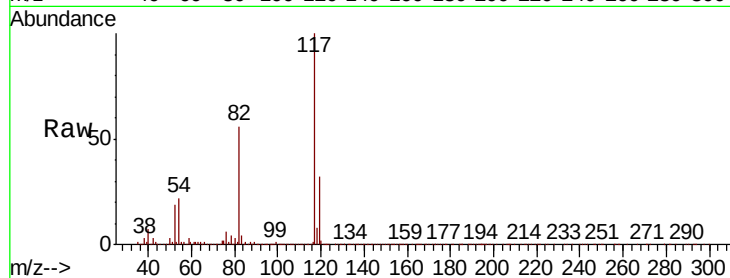
Tot Ion:117 Resp: 748470

Ion Ratio Lower Upper

117 100

82 55.8 41.8 62.6

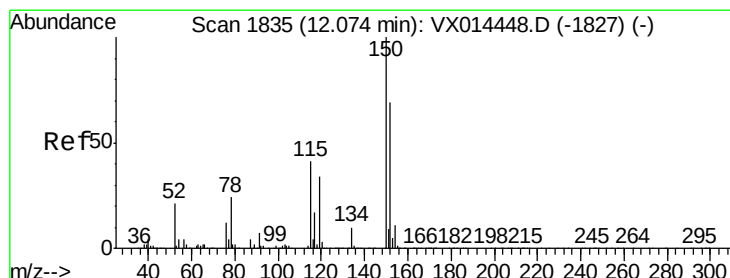
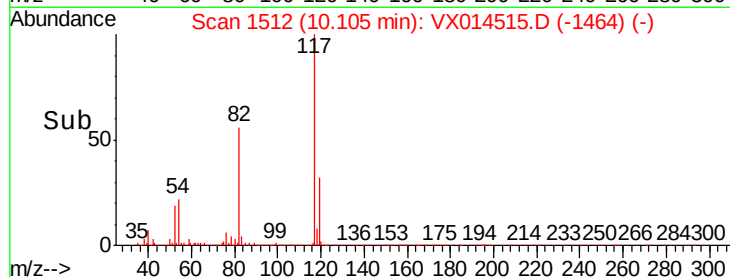
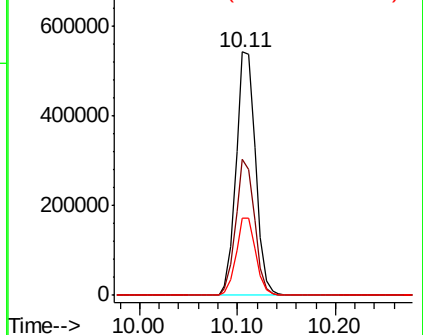
119 31.6 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014515.D

Acq: 09 Jan 2020 22:25

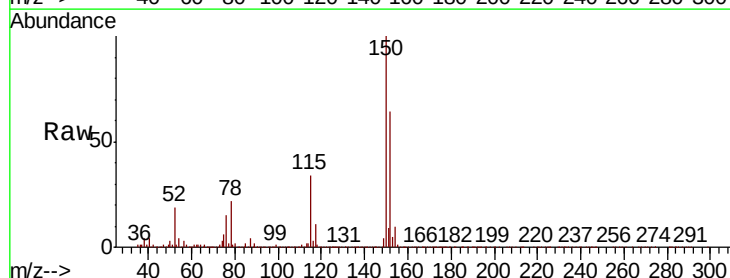
Tgt Ion:152 Resp: 346214

Ion Ratio Lower Upper

152 100

115 54.2 39.5 118.3

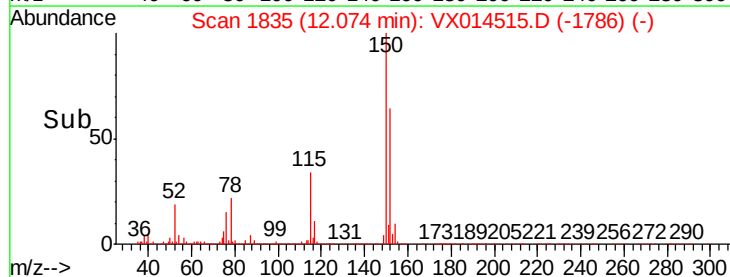
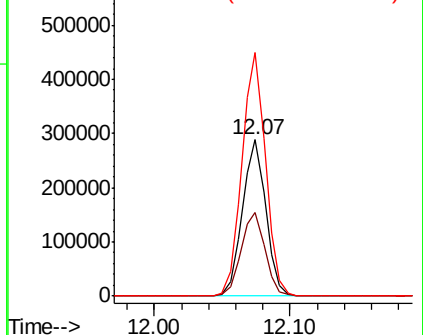
150 156.4 0.0 350.2

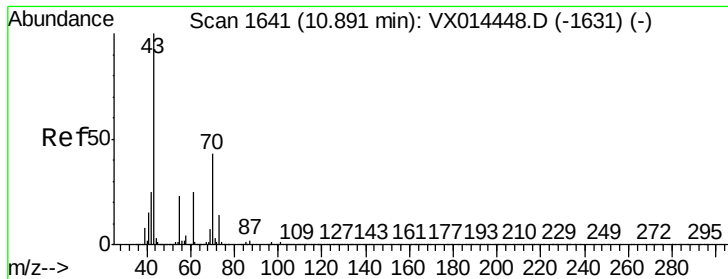


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.739 ug/l

RT: 10.82 min Scan# 1629

Delta R.T. -0.07 min

Lab File: VX014515.D

Acq: 09 Jan 2020 22:25

Instrument :

MSVOA_X

ClientSampleId :

PB125963ZHE#08

Tot Ion: 43 Resp: 7924

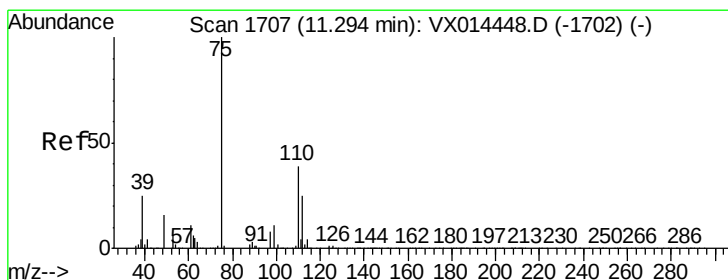
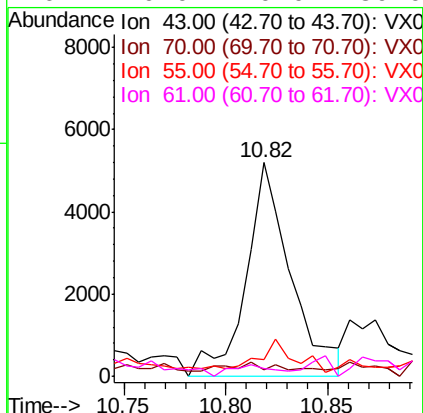
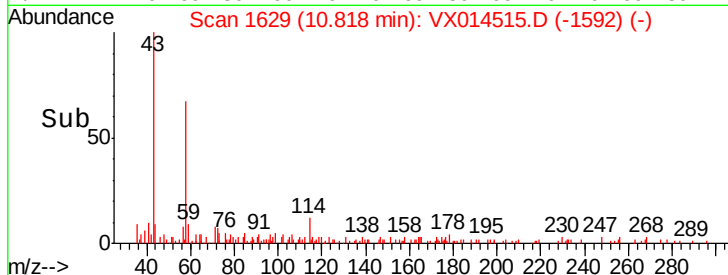
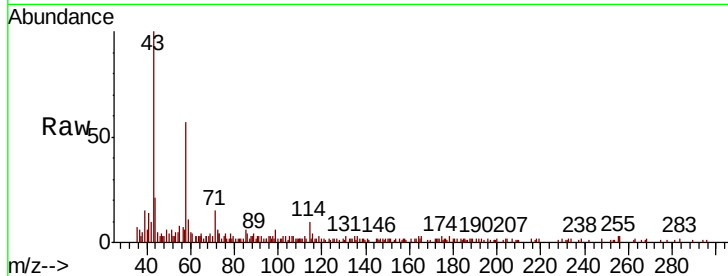
Ion Ratio Lower Upper

43 100

70 0.0 35.1 52.7#

55 11.4 19.3 28.9#

61 0.0 20.0 30.0#



#76

1,2,3-Trichloropropane

Concen: 22.952 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014515.D

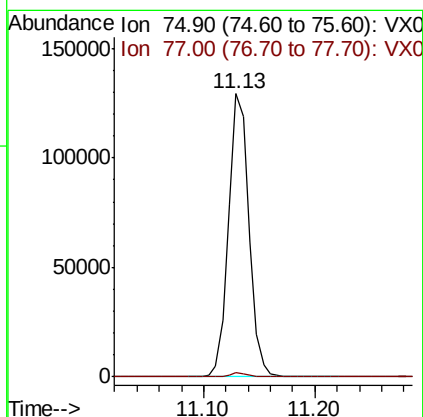
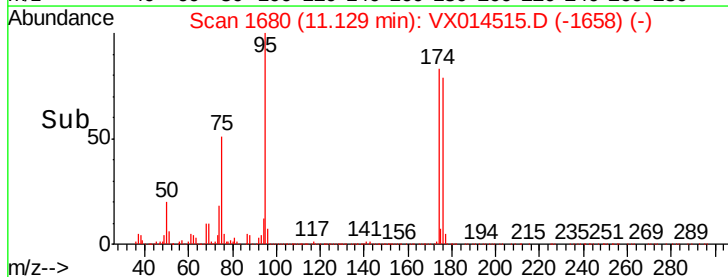
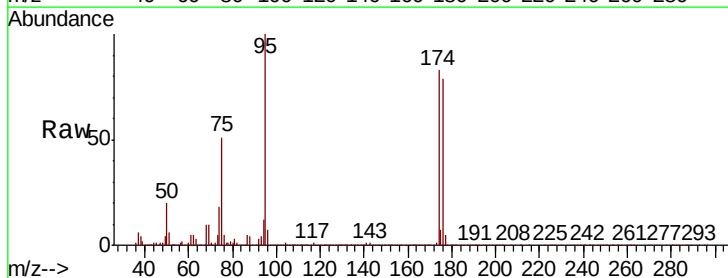
Acq: 09 Jan 2020 22:25

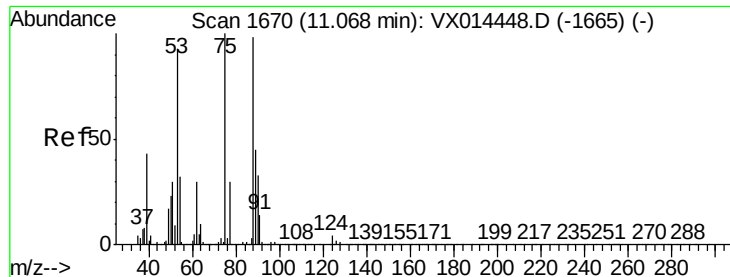
Tgt Ion: 75 Resp: 164412

Ion Ratio Lower Upper

75 100

77 1.6 21.9 65.7#

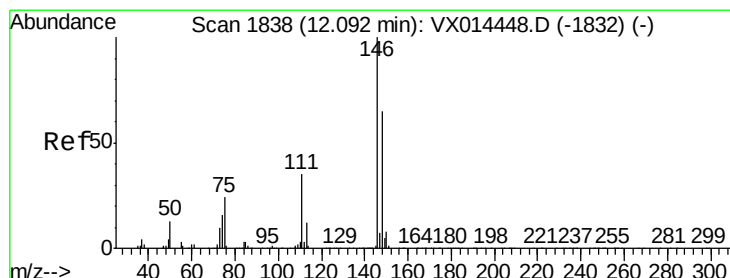
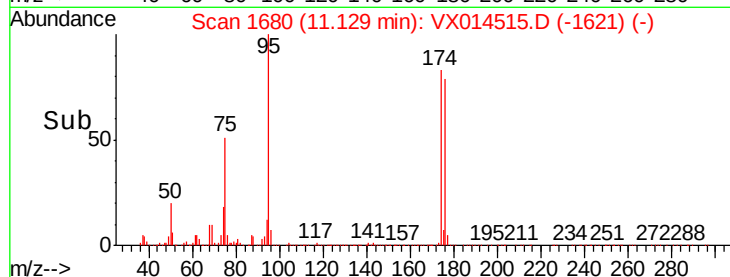
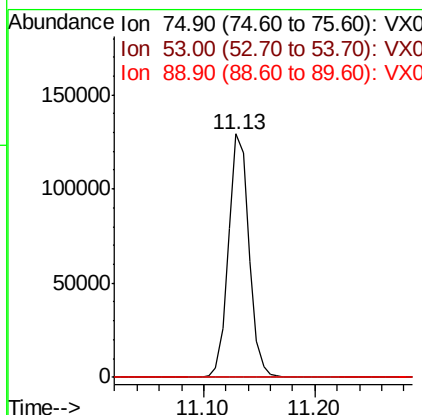
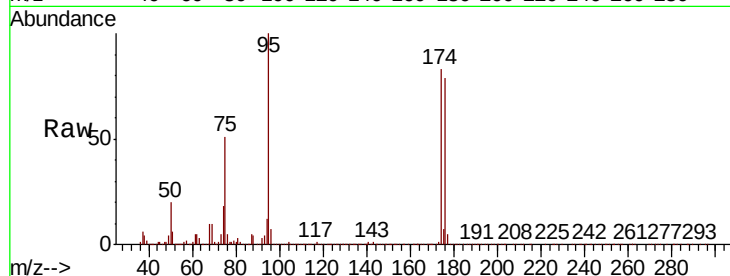




#81
trans-1,4-Dichloro-2-butene
Concen: 60.681 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX014515.D
Acq: 09 Jan 2020 22:25

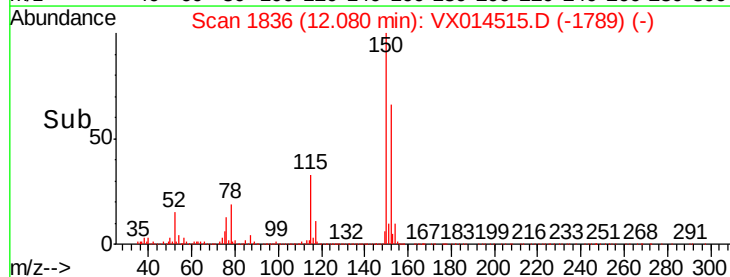
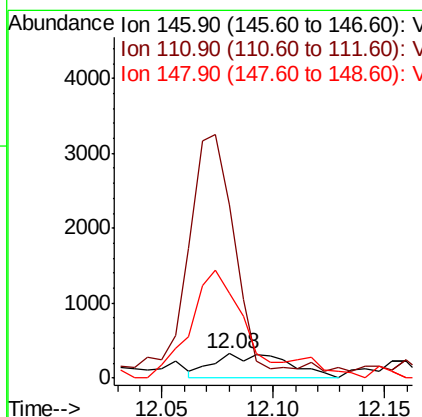
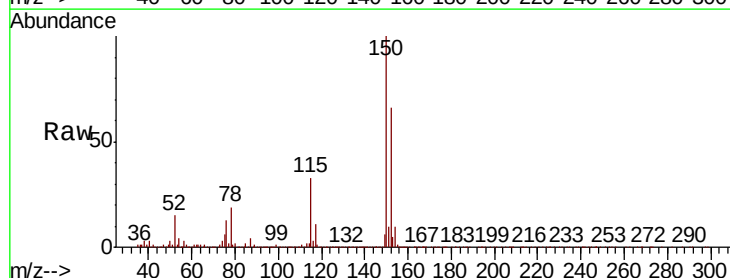
Instrument :
MSVOA_X
ClientSampleId :
PB125963ZHE#08

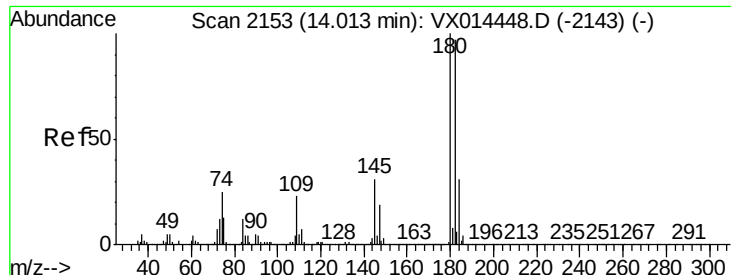
Tot Ion: 75 Resp: 164412
Ion Ratio Lower Upper
75 100
53 0.3 74.8 112.2#
89 0.1 36.3 54.5#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 12.08 min Scan# 1836
Delta R.T. -0.01 min
Lab File: VX014515.D
Acq: 09 Jan 2020 22:25

Tgt Ion: 146 Resp: 753
Ion Ratio Lower Upper
146 100
111 597.1 18.1 54.1#
148 317.0 32.1 96.3#





#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 14.01 min Scan# 2153

Delta R.T. 0.00 min

Lab File: VX014515.D

Acq: 09 Jan 2020 22:25

Instrument :

MSVOA_X

ClientSampleId :

PB125963ZHE#08

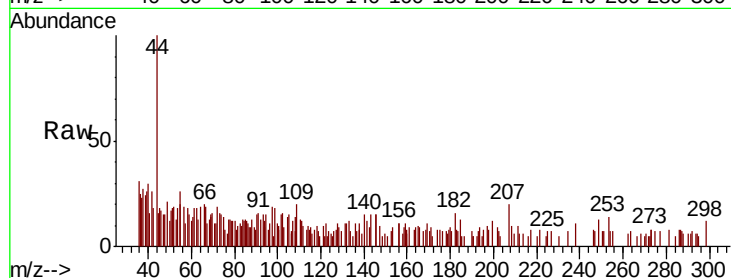
Tot Ion:180 Resp: 307

Ion Ratio Lower Upper

180 100

182 147.9 47.9 143.6#

145 85.7 14.8 44.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

