

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX073019\
 Data File : VX011223.D
 Acq On : 31 Jul 2019 03:01
 Operator : JC/SP
 Sample : PB121803ZHE#03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121803ZHE#03

Quant Time: Jul 31 08:48:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	227406	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	327699	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	297549	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	135220	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	113997	47.12	ug/l	0.00
Spiked Amount			Recovery	=	94.24%	
35) Dibromofluoromethane	5.49	113	95858	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	
50) Toluene-d8	8.71	98	387484	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	
62) 4-Bromofluorobenzene	11.13	95	127910	44.61	ug/l	0.00
Spiked Amount			Recovery	=	89.22%	

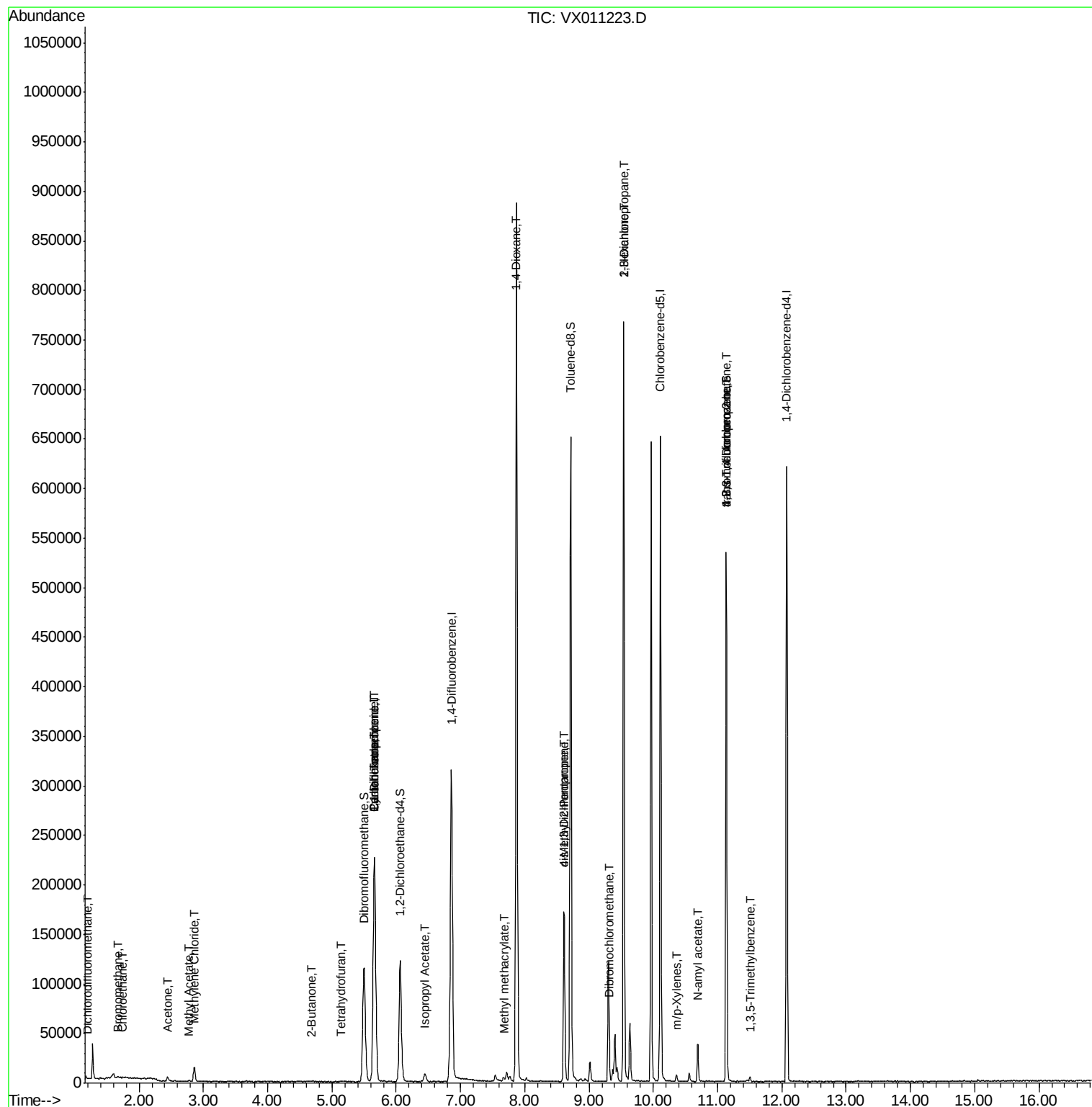
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	95	0.585	ug/l #	53
5) Bromomethane	1.66	94	496	0.413	ug/l	97
6) Chloroethane	1.75	64	309	0.228	ug/l #	41
16) Acetone	2.44	43	4607	4.216	ug/l	99
18) Methyl Acetate	2.78	43	1450	0.583	ug/l #	89
20) Methylene Chloride	2.86	84	7265	3.137	ug/l	97
25) 2-Butanone	4.68	43	411	0.262	ug/l #	36
29) Tetrahydrofuran	5.14	42	472	0.475	ug/l #	66
31) Cyclohexane	5.66	56	4564	1.389	ug/l #	14
36) 1,1-Dichloropropene	5.67	75	14949	5.554	ug/l #	49
38) Carbon Tetrachloride	5.66	117	21253	7.577	ug/l #	18
43) Isopropyl Acetate	6.45	43	11518	2.541	ug/l	99
48) Methyl methacrylate	7.68	41	5132	2.324	ug/l #	10
49) 1,4-Dioxane	7.87	88	261	4.226	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	56633	19.277	ug/l #	48
54) cis-1,3-Dichloropropene	8.61	75	28935	9.060	ug/l #	64
57) 1,3-Dichloropropane	9.54	76	6997	1.978	ug/l #	44
59) 2-Hexanone	9.54	43	89432	39.247	ug/l #	51
60) Dibromochloromethane	9.32	129	44	2.544	ug/l #	11
68) m/p-Xylenes	10.36	106	1463	0.367	ug/l	95
74) N-amyl acetate	10.69	43	9246	2.648	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	65101	26.679	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	1653	0.217	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.13	75	65101	66.193	ug/l #	11

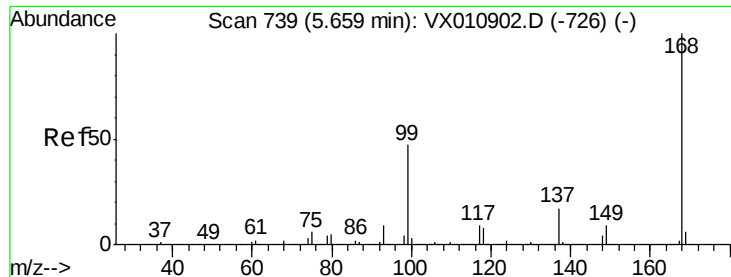
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 31 08:48:11 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011223.D

Acq: 31 Jul 2019 03:01

Instrument :

MSVOA_X

ClientSampleId :

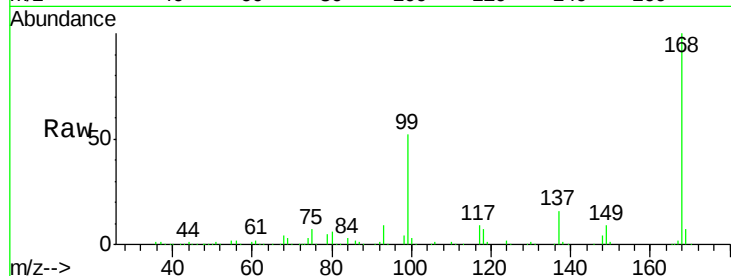
PB121803ZHE#03

Tgt Ion:168 Resp: 227406

Ion Ratio Lower Upper

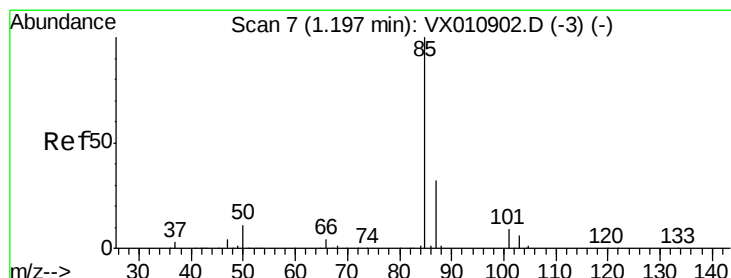
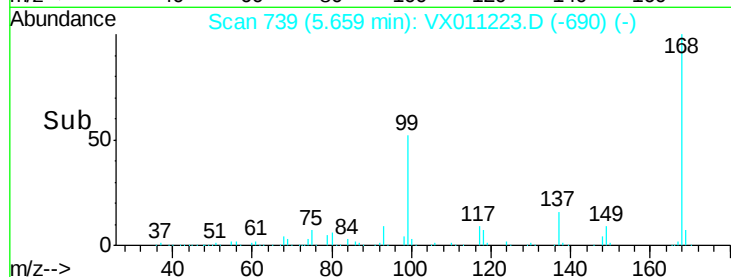
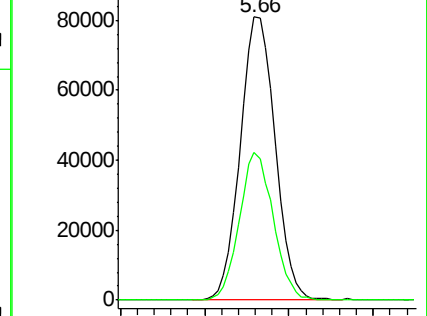
168 100

99 52.0 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.585 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX011223.D

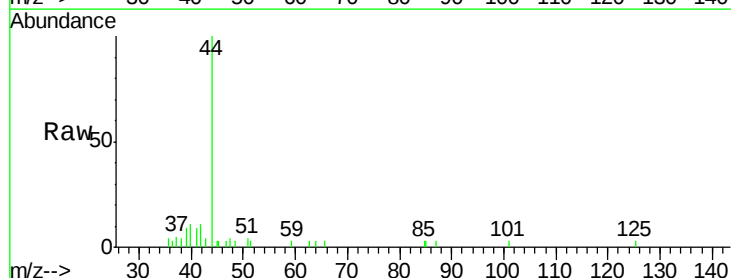
Acq: 31 Jul 2019 03:01

Tgt Ion: 85 Resp: 95

Ion Ratio Lower Upper

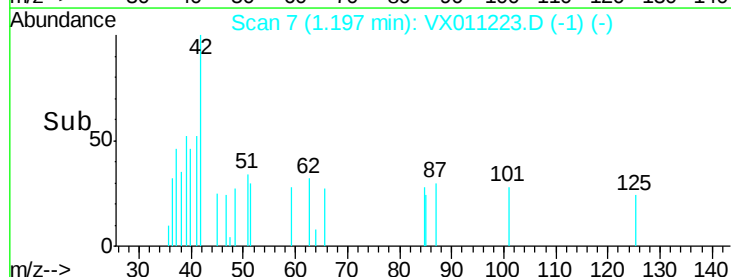
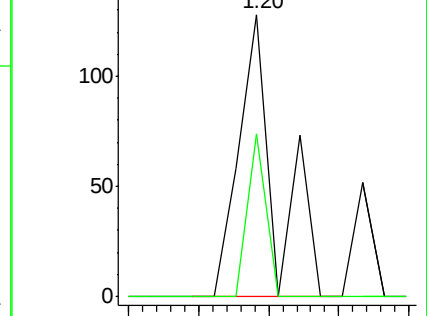
85 100

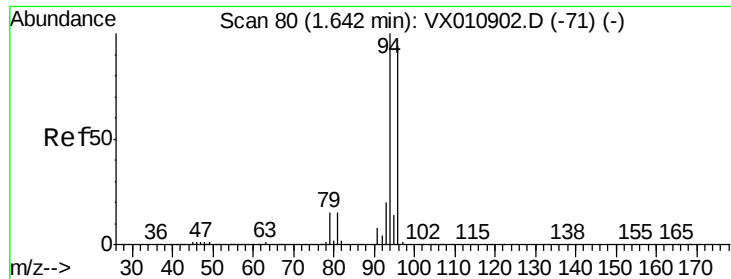
87 57.8 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: 0.413 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX011223.D

Acq: 31 Jul 2019 03:01

Instrument :

MSVOA_X

ClientSampleId :

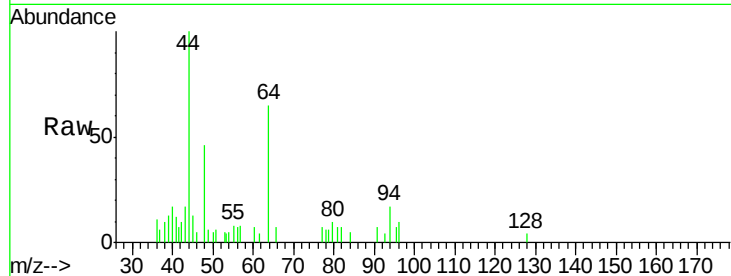
PB121803ZHE#03

Tgt Ion: 94 Resp: 496

Ion Ratio Lower Upper

94 100

96 97.7 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

250

200

150

100

50

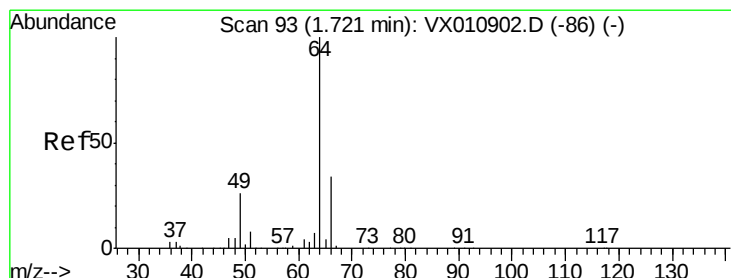
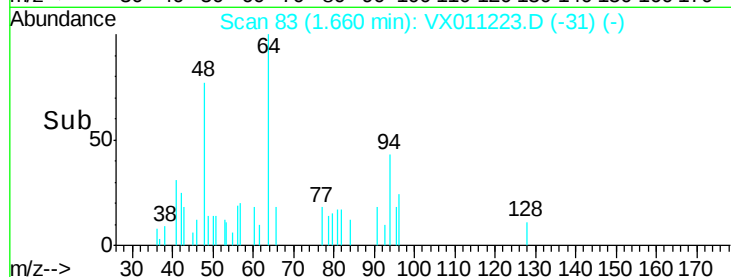
0

1.60

1.65

1.70

Time-->



#6

Chloroethane

Concen: 0.228 ug/l

RT: 1.75 min Scan# 97

Delta R.T. 0.02 min

Lab File: VX011223.D

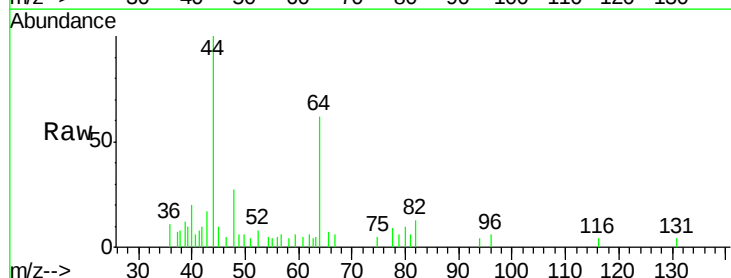
Acq: 31 Jul 2019 03:01

Tgt Ion: 64 Resp: 309

Ion Ratio Lower Upper

64 100

66 0.0 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

800

600

400

200

0

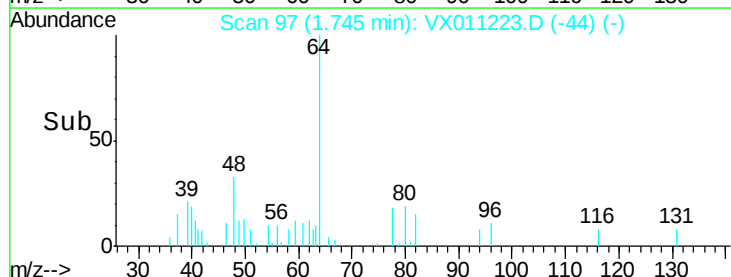
1.72

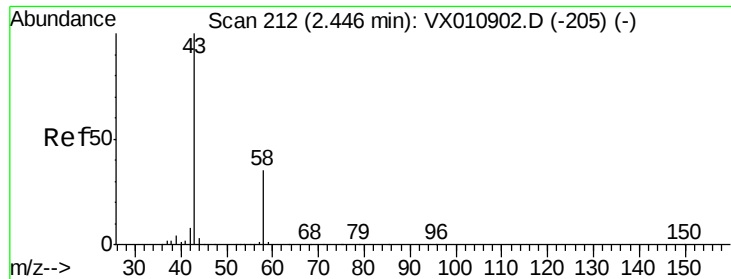
1.74

1.76

1.78

Time-->





#16

Acetone

Concen: 4.216 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011223.D

Acq: 31 Jul 2019 03:01

Instrument :

MSVOA_X

ClientSampleId :

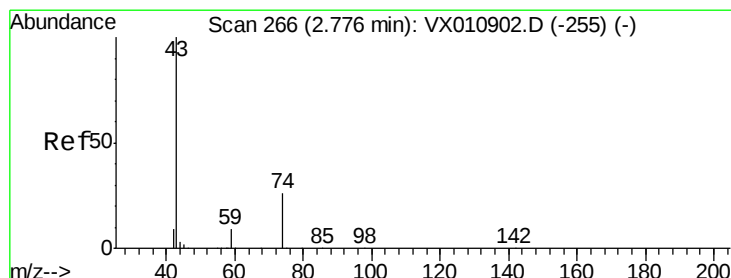
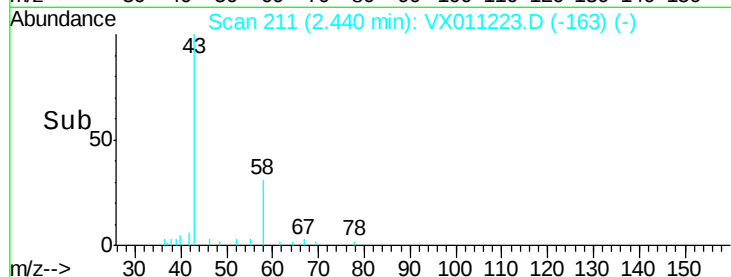
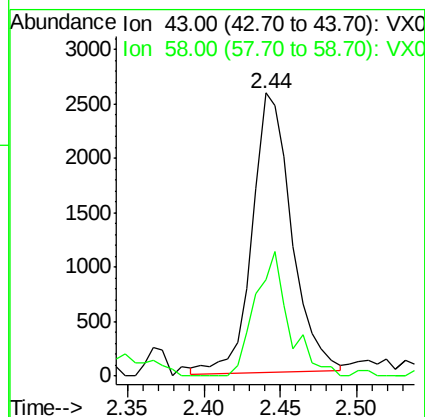
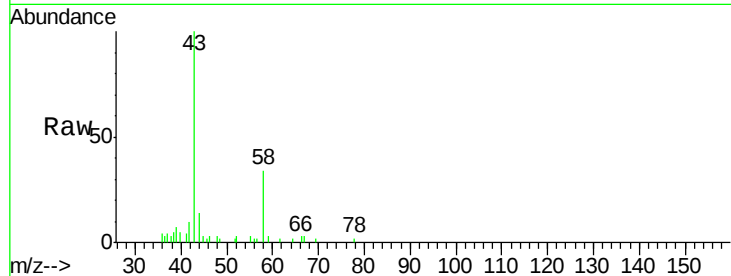
PB121803ZHE#03

Tgt Ion: 43 Resp: 4607

Ion Ratio Lower Upper

43 100

58 35.0 27.7 41.5



#18

Methyl Acetate

Concen: 0.583 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX011223.D

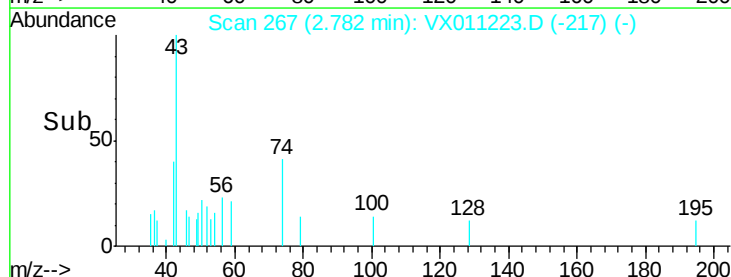
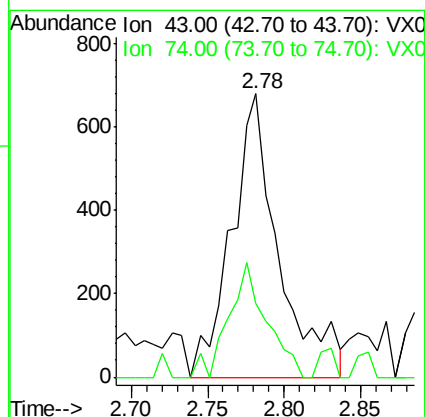
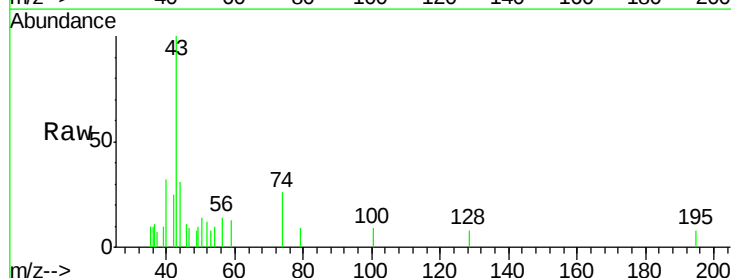
Acq: 31 Jul 2019 03:01

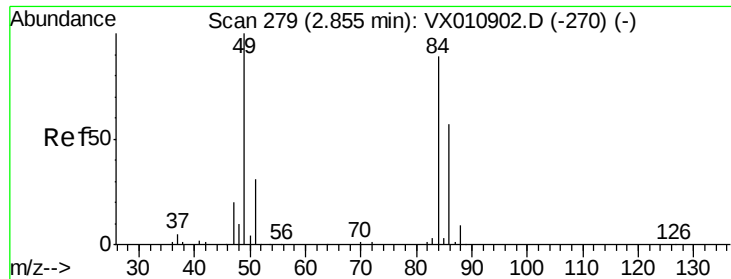
Tgt Ion: 43 Resp: 1450

Ion Ratio Lower Upper

43 100

74 32.6 21.5 32.3#

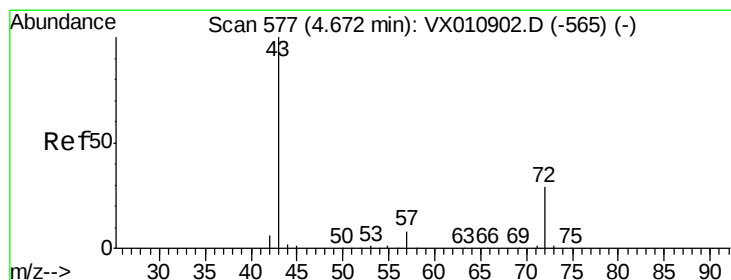
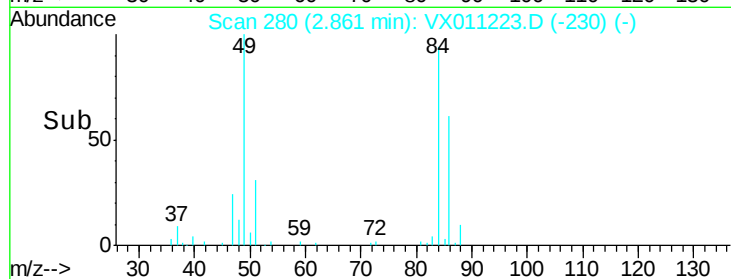
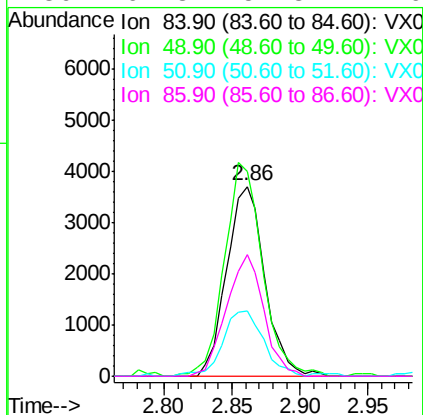
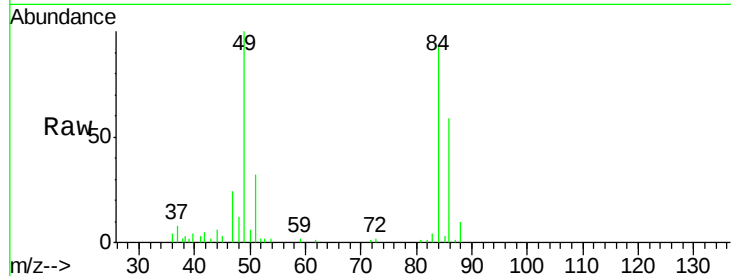




#20
Methylene Chloride
Concen: 3.137 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX011223.D
Acq: 31 Jul 2019 03:01

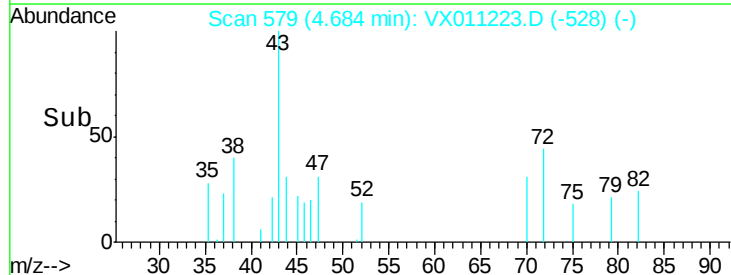
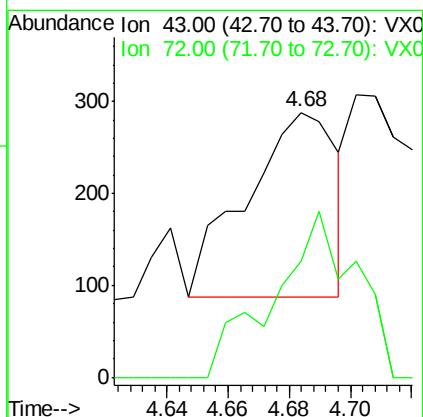
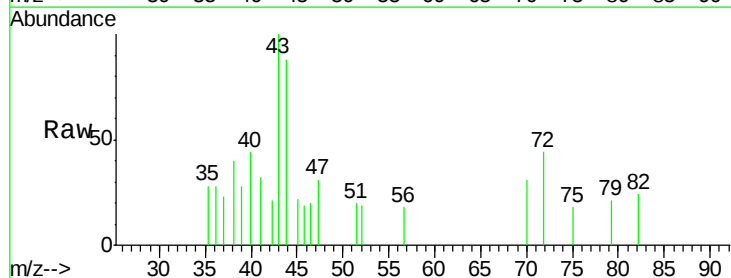
Instrument :
MSVOA_X
ClientSampleId :
PB121803ZHE#03

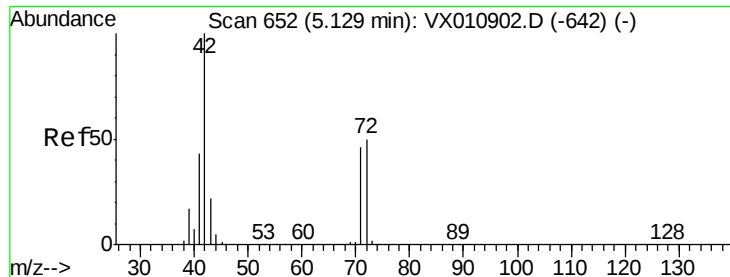
Tgt Ion:	84	Resp:	7265
Ion	Ratio	Lower	Upper
84	100		
49	108.1	89.9	134.9
51	33.1	27.8	41.6
86	64.3	51.8	77.6



#25
2-Butanone
Concen: 0.262 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.01 min
Lab File: VX011223.D
Acq: 31 Jul 2019 03:01

Tgt Ion:	43	Resp:	411
Ion	Ratio	Lower	Upper
43	100		
72	62.7	23.0	34.6#





#29

Tetrahydrofuran

Concen: 0.475 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX011223.D

Acq: 31 Jul 2019 03:01

Instrument :

MSVOA_X

ClientSampleId :

PB121803ZHE#03

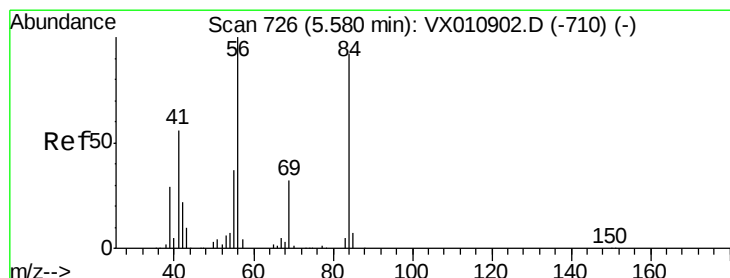
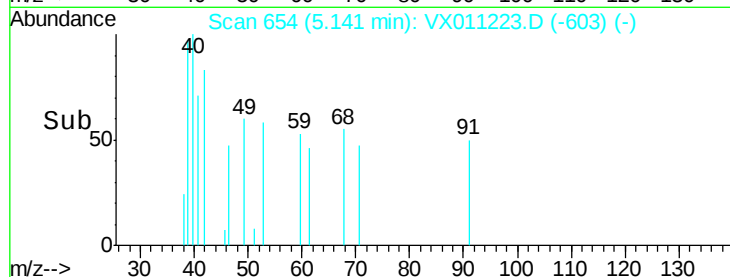
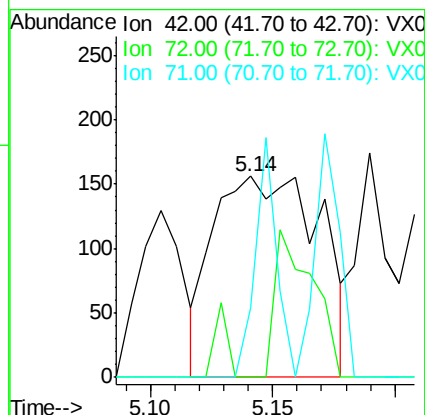
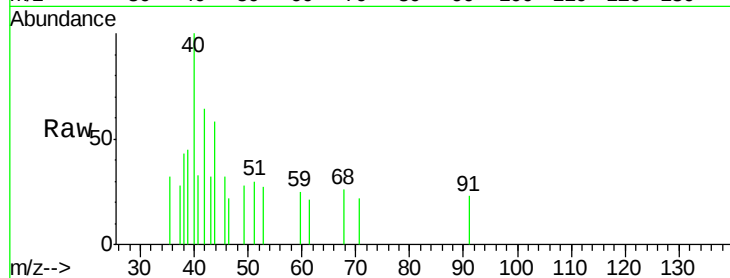
Tgt Ion: 42 Resp: 472

Ion Ratio Lower Upper

42 100

72 26.5 39.8 59.8#

71 23.7 37.0 55.4#



#31

Cyclohexane

Concen: 1.389 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX011223.D

Acq: 31 Jul 2019 03:01

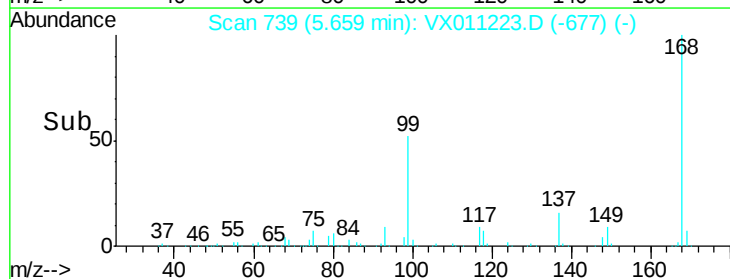
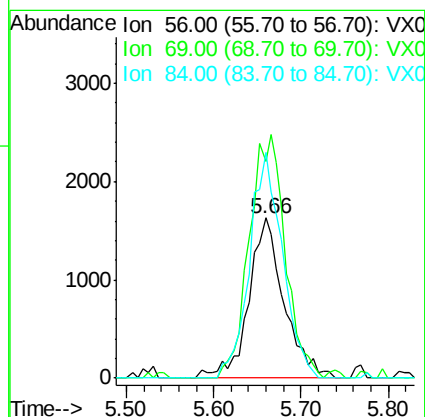
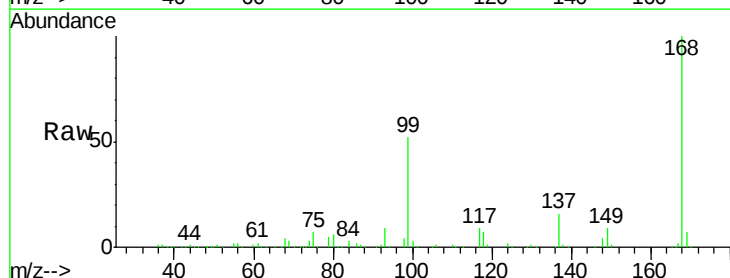
Tgt Ion: 56 Resp: 4564

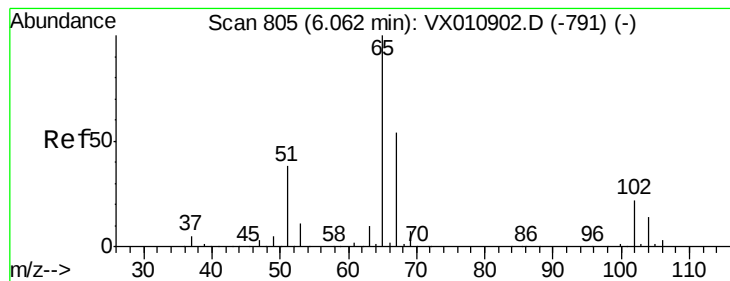
Ion Ratio Lower Upper

56 100

69 135.4 25.8 38.8#

84 140.9 73.8 110.6#





#33

1,2-Dichloroethane-d4

Concen: 47.121 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011223.D

Acq: 31 Jul 2019 03:01

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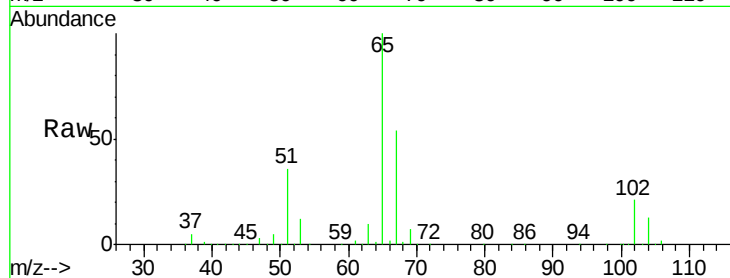
PB121803ZHE#03

Tgt Ion: 65 Resp: 113997

Ion Ratio Lower Upper

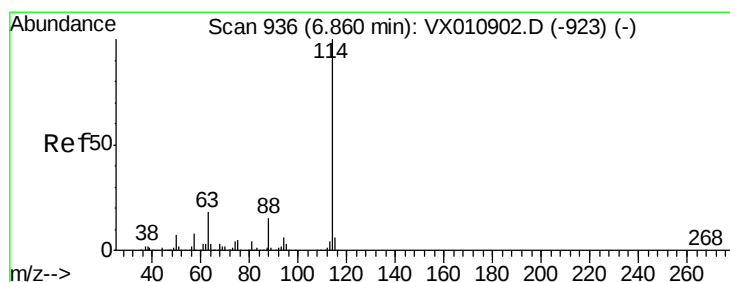
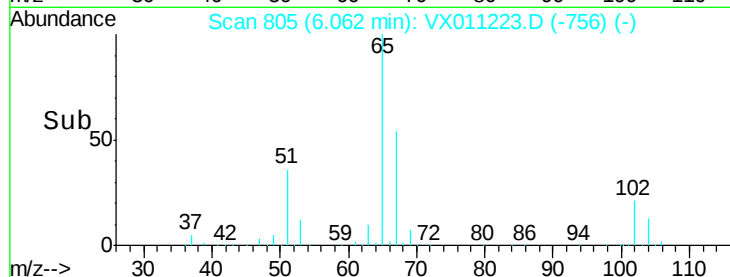
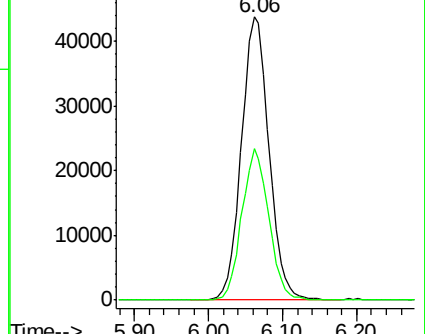
65 100

67 52.1 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX011223.D

Acq: 31 Jul 2019 03:01

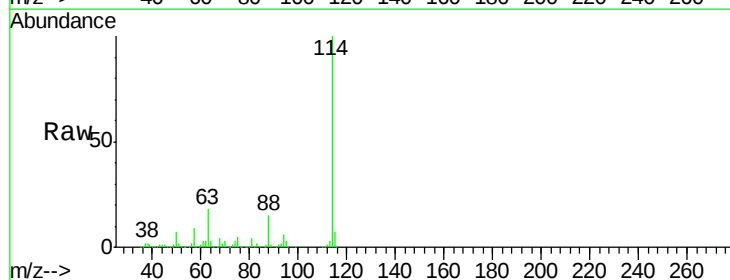
Tgt Ion: 114 Resp: 327699

Ion Ratio Lower Upper

114 100

63 18.5 0.0 35.6

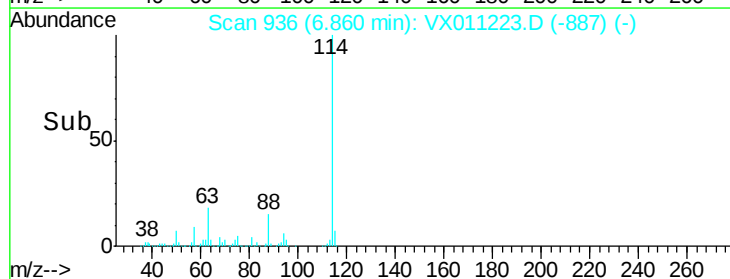
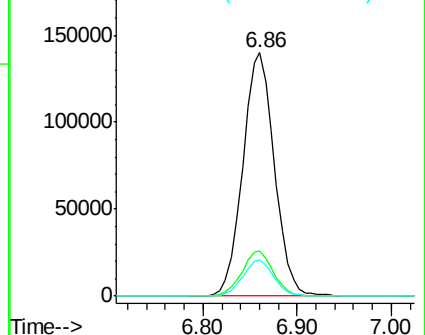
88 14.8 0.0 29.8

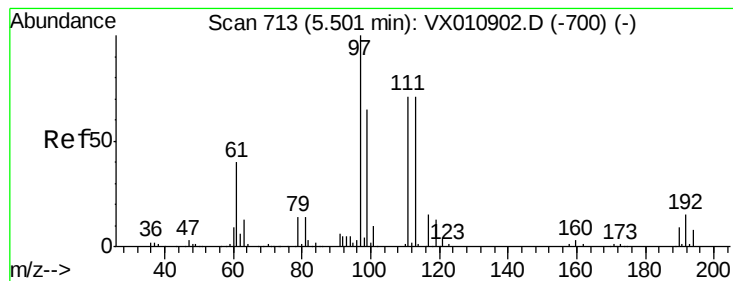


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 46.086 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX011223.D

Acq: 31 Jul 2019 03:01

Instrument :

MSVOA_X

ClientSampleId :

PB121803ZHE#03

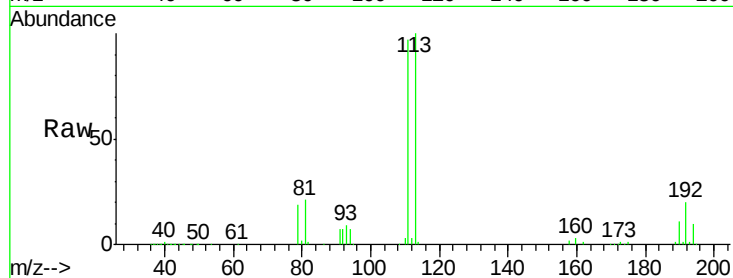
Tgt Ion:113 Resp: 95858

Ion Ratio Lower Upper

113 100

111 103.2 82.3 123.5

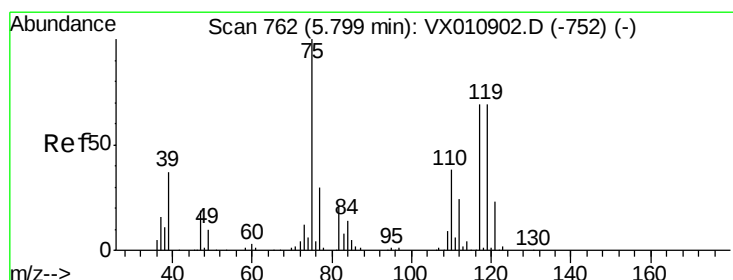
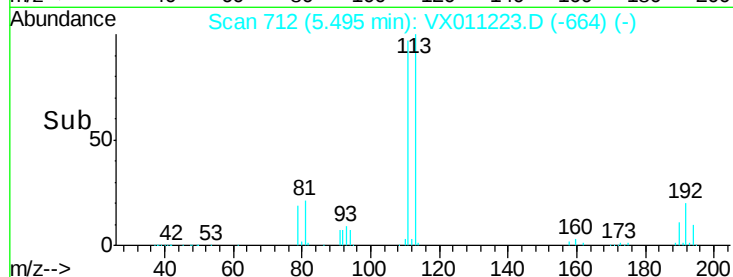
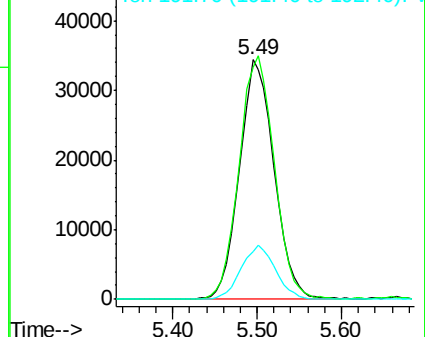
192 22.4 17.4 26.2



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: 5.554 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX011223.D

Acq: 31 Jul 2019 03:01

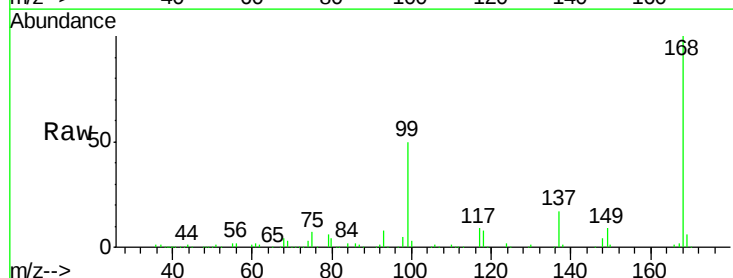
Tgt Ion: 75 Resp: 14949

Ion Ratio Lower Upper

75 100

110 10.7 19.9 59.7#

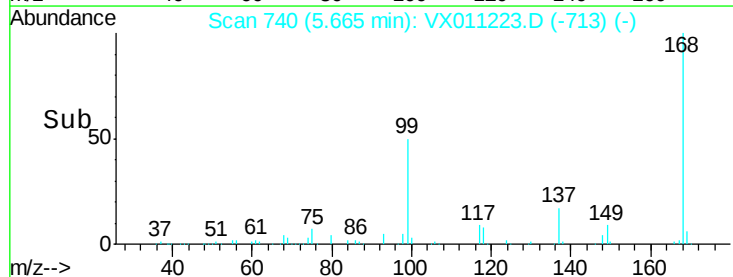
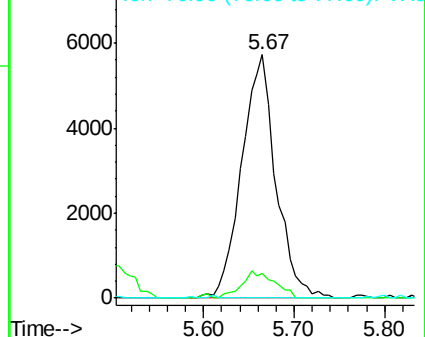
77 0.0 25.0 37.4#

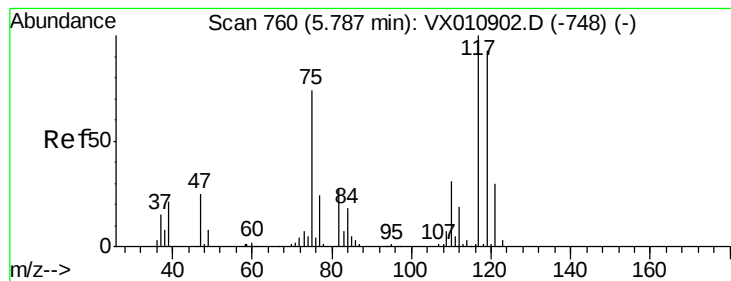


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.577 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011223.D

Acq: 31 Jul 2019 03:01

Instrument :

MSVOA_X

ClientSampleId :

PB121803ZHE#03

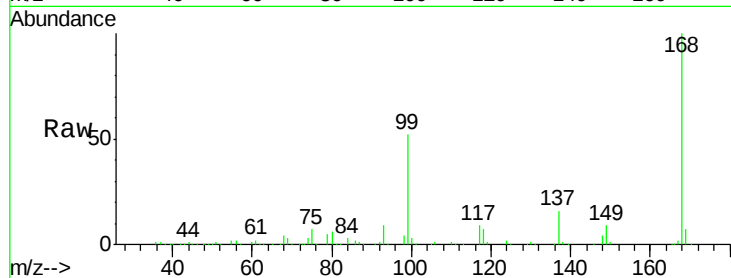
Tgt Ion:117 Resp: 21253

Ion Ratio Lower Upper

117 100

119 5.3 74.2 111.2#

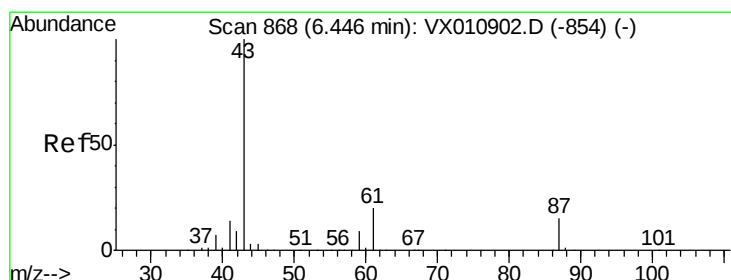
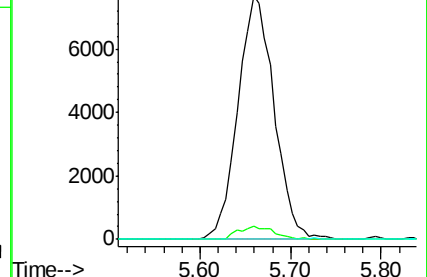
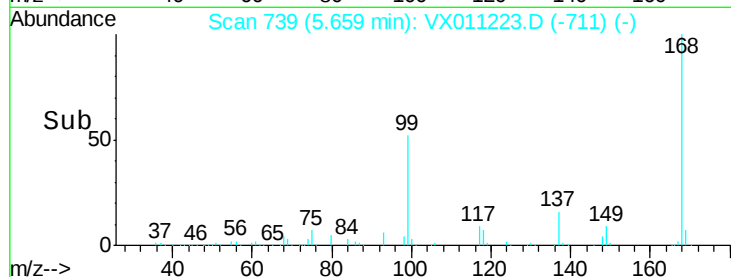
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.541 ug/l

RT: 6.45 min Scan# 868

Delta R.T. -0.00 min

Lab File: VX011223.D

Acq: 31 Jul 2019 03:01

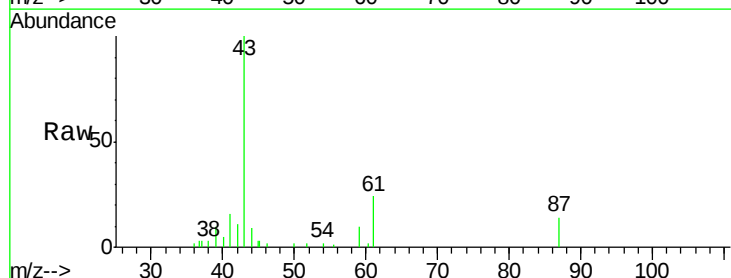
Tgt Ion: 43 Resp: 11518

Ion Ratio Lower Upper

43 100

61 20.5 17.1 25.7

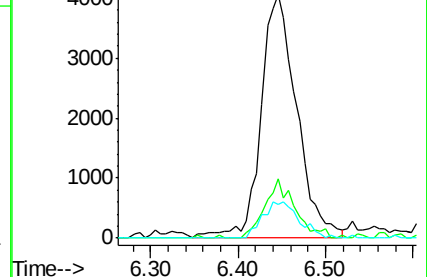
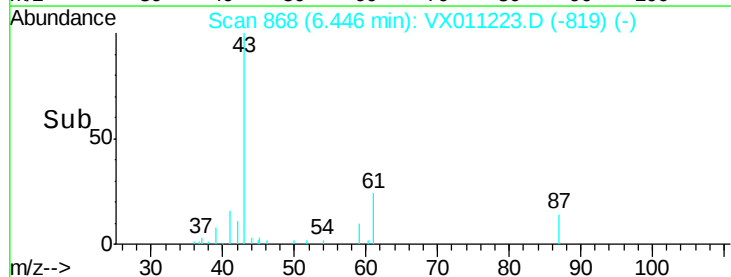
87 15.1 12.0 18.0

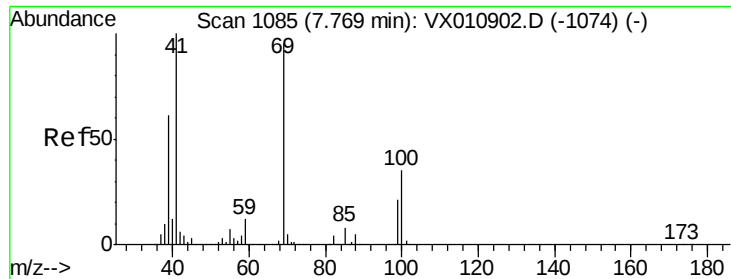


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 2.324 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011223.D

Acq: 31 Jul 2019 03:01

Instrument :

MSVOA_X

ClientSampleId :

PB121803ZHE#03

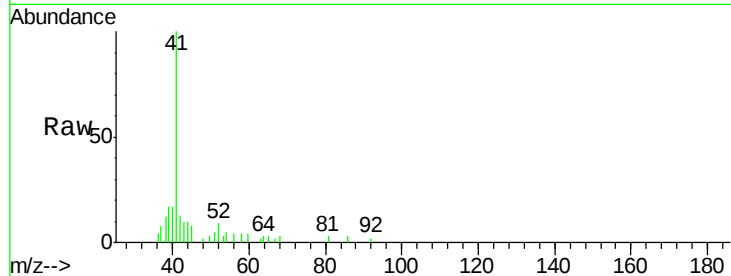
Tgt Ion: 41 Resp: 5132

Ion Ratio Lower Upper

41 100

69 0.0 74.4 111.6#

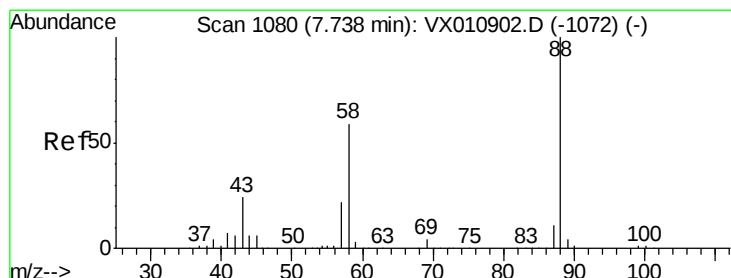
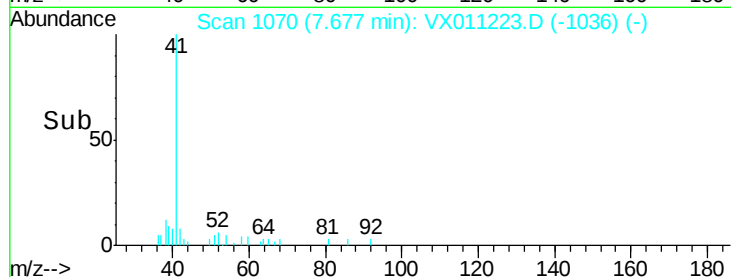
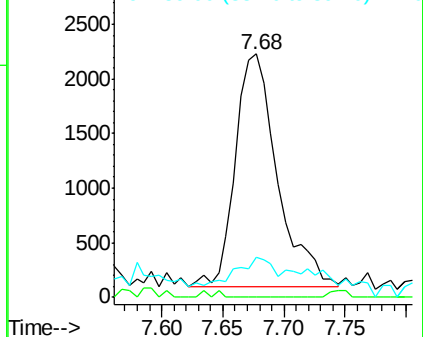
39 0.0 48.9 73.3#



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: 4.226 ug/l

RT: 7.87 min Scan# 1101

Delta R.T. 0.13 min

Lab File: VX011223.D

Acq: 31 Jul 2019 03:01

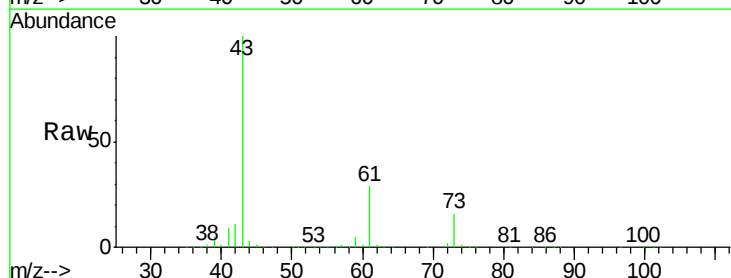
Tgt Ion: 88 Resp: 261

Ion Ratio Lower Upper

88 100

43 297613.4 22.9 34.3#

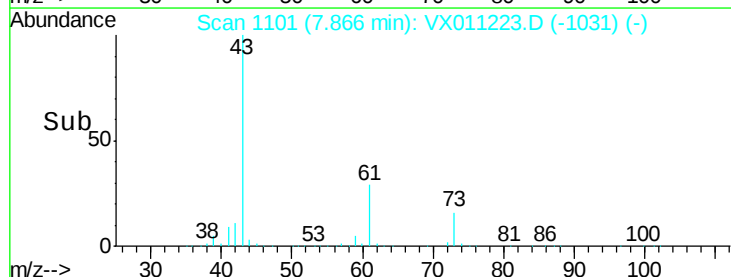
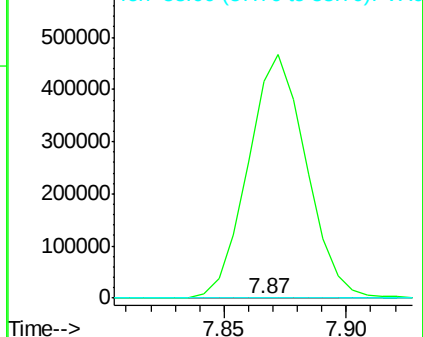
58 1387.4 49.8 74.8#

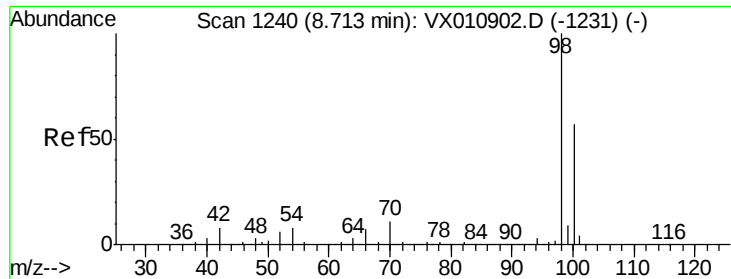


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

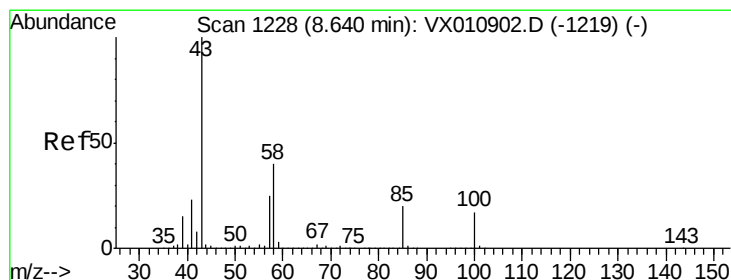
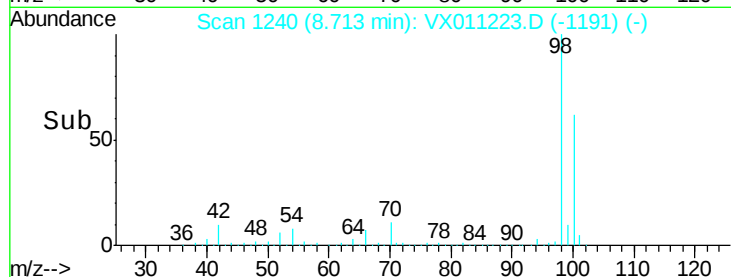
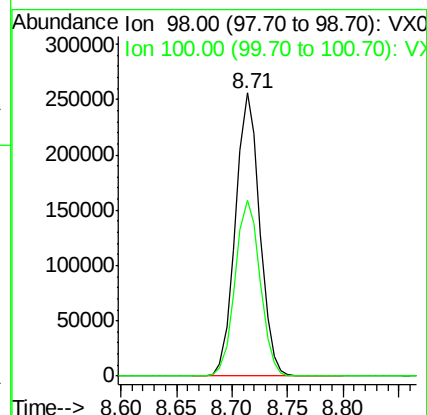
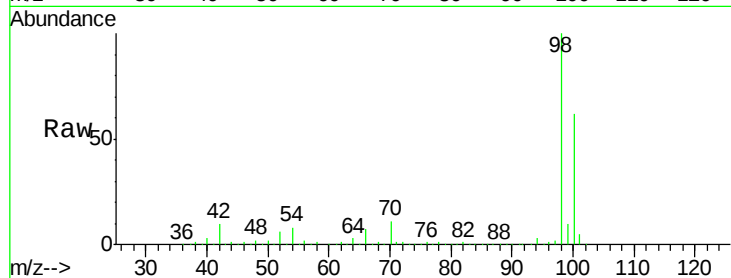




#50
Toluene-d8
Concen: 49.670 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011223.D
Acq: 31 Jul 2019 03:01

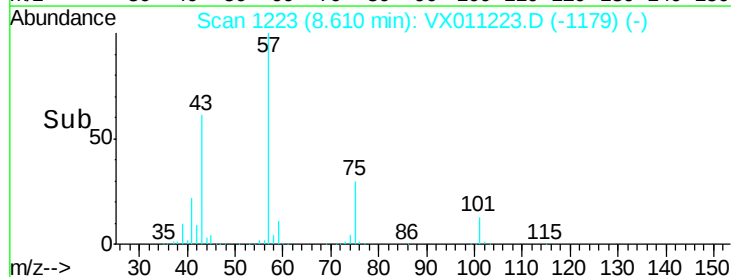
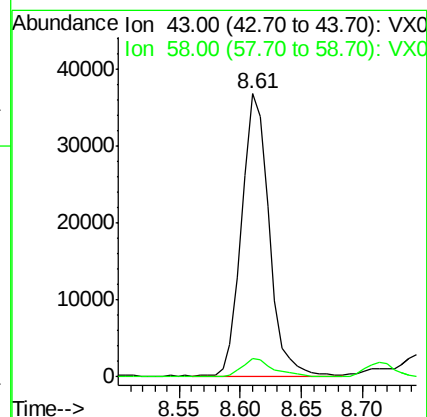
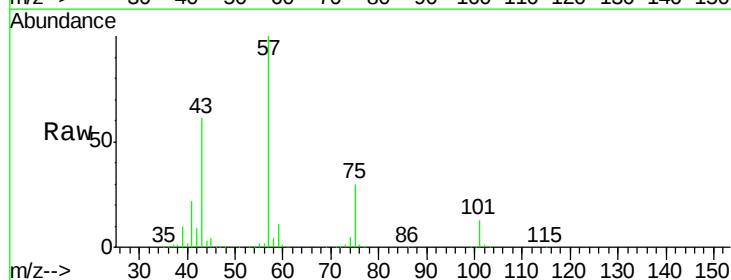
Instrument :
MSVOA_X
ClientSampleId :
PB121803ZHE#03

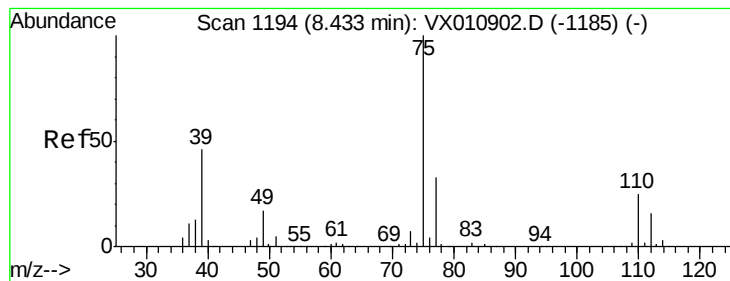
Tgt Ion: 98 Resp: 387484
Ion Ratio Lower Upper
98 100
100 63.8 50.6 75.8



#51
4-Methyl-2-Pentanone
Concen: 19.277 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011223.D
Acq: 31 Jul 2019 03:01

Tgt Ion: 43 Resp: 56633
Ion Ratio Lower Upper
43 100
58 7.8 32.2 48.4#



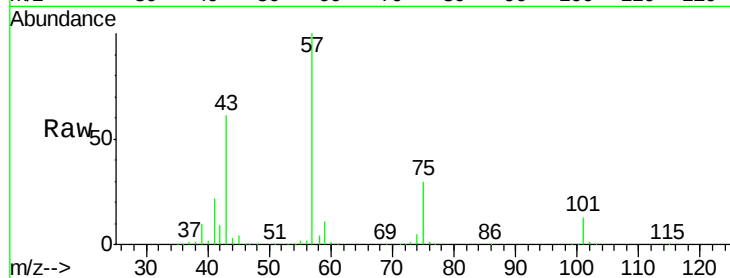


#54

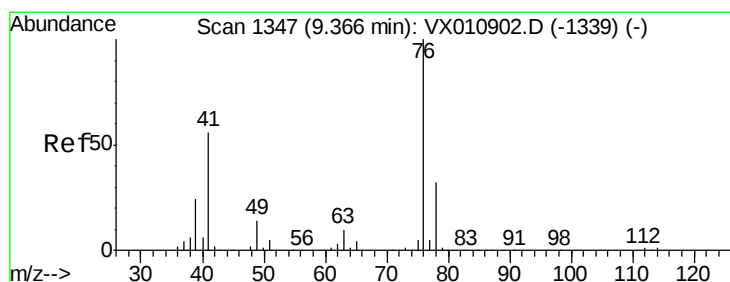
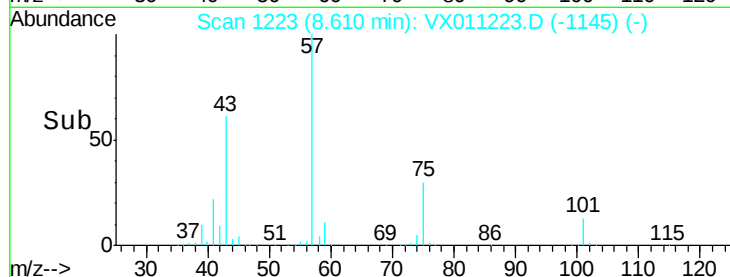
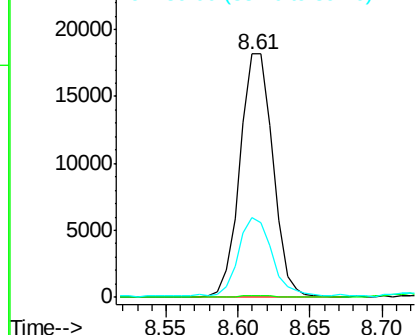
cis-1,3-Dichloropropene
Concen: 9.060 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. 0.18 min
Lab File: VX011223.D
Acq: 31 Jul 2019 03:01

Instrument :
MSVOA_X
ClientSampleId :
PB121803ZHE#03

Tgt Ion: 75 Resp: 28935
Ion Ratio Lower Upper
75 100
77 0.6 26.1 39.1#
39 32.0 36.6 54.8#



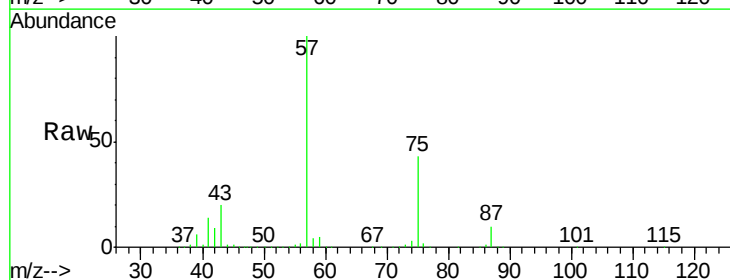
Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0
Ion 39.00 (38.70 to 39.70): VX0



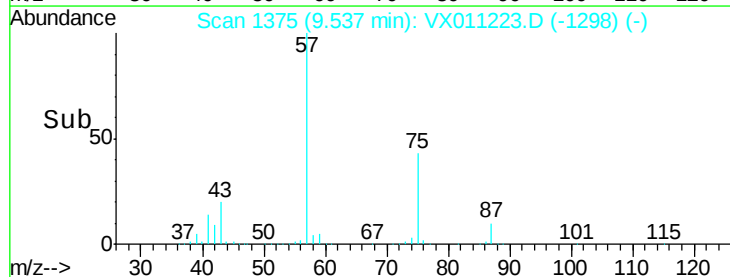
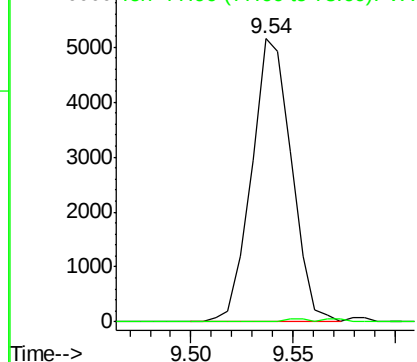
#57

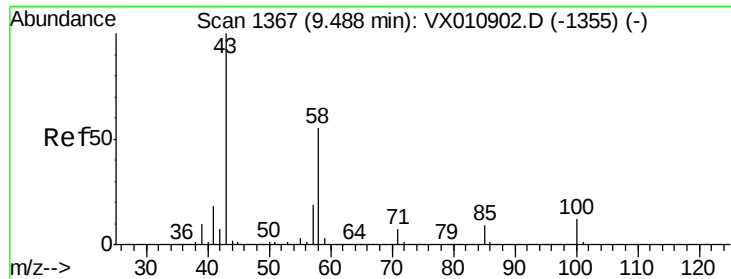
1,3-Dichloropropane
Concen: 1.978 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.17 min
Lab File: VX011223.D
Acq: 31 Jul 2019 03:01

Tgt Ion: 76 Resp: 6997
Ion Ratio Lower Upper
76 100
78 0.5 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VX0
Ion 77.90 (77.60 to 78.60): VX0

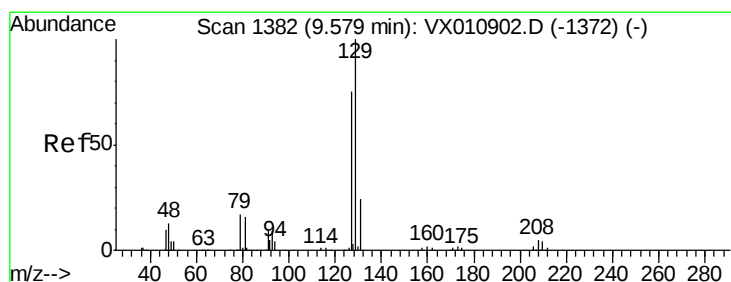
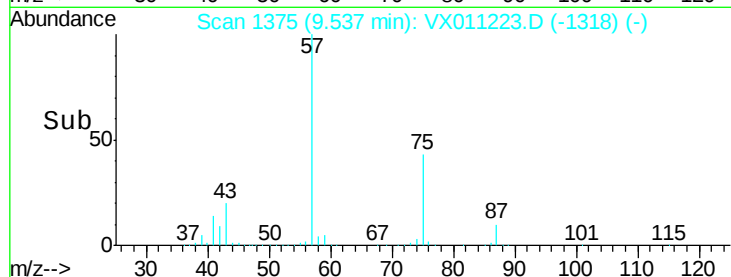
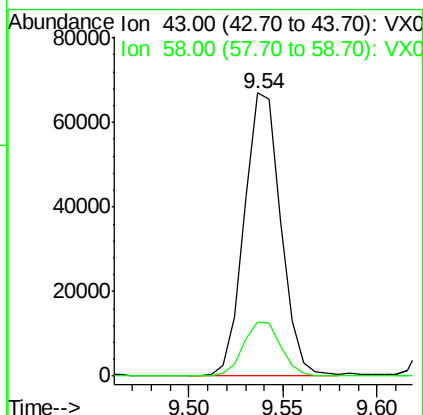
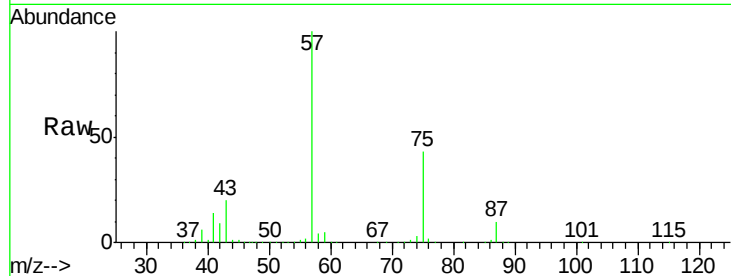




#59
2-Hexanone
Concen: 39.247 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011223.D
Acq: 31 Jul 2019 03:01

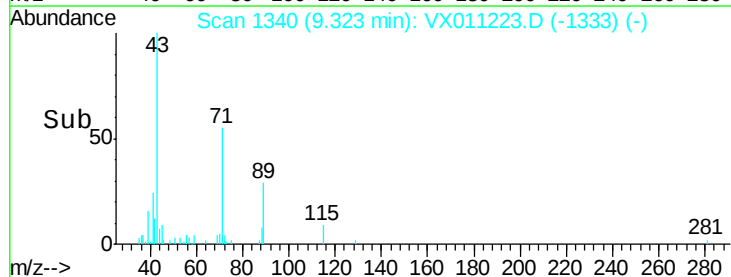
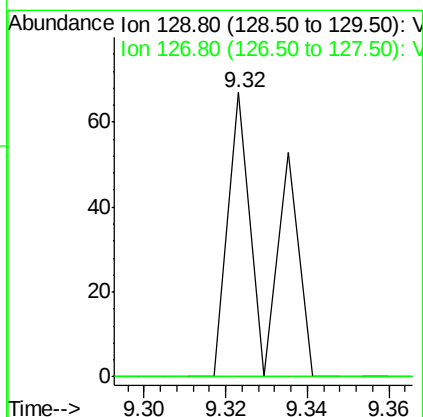
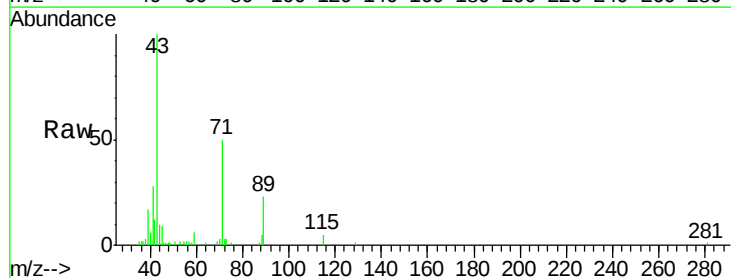
Instrument :
MSVOA_X
ClientSampleId :
PB121803ZHE#03

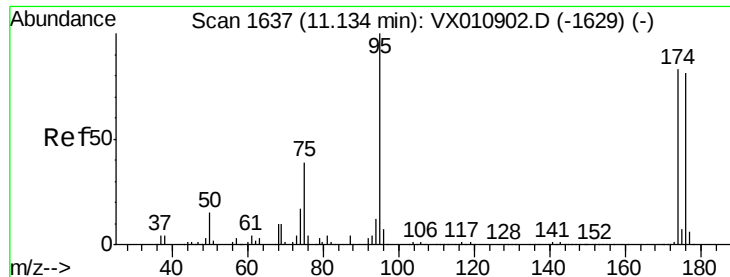
Tgt Ion: 43 Resp: 89432
Ion Ratio Lower Upper
43 100
58 20.2 28.0 83.9#



#60
Dibromochloromethane
Concen: 2.544 ug/l
RT: 9.32 min Scan# 1340
Delta R.T. -0.26 min
Lab File: VX011223.D
Acq: 31 Jul 2019 03:01

Tgt Ion: 129 Resp: 44
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

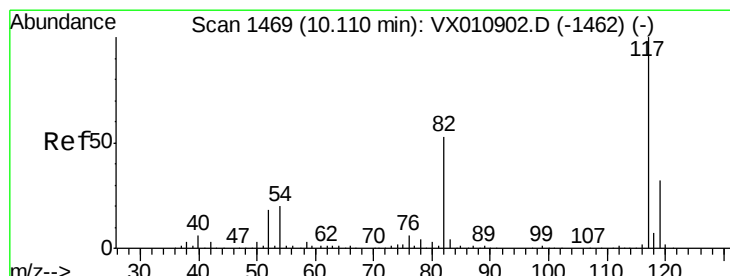
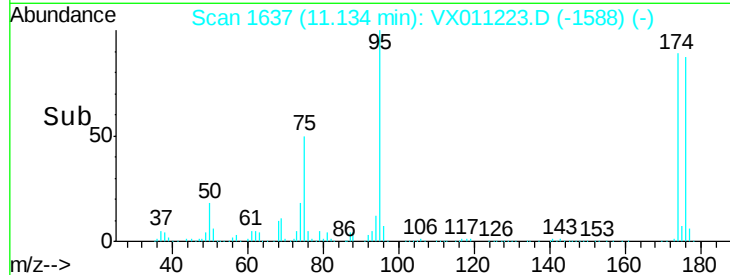
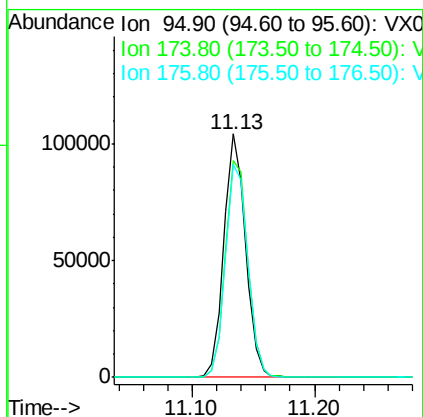
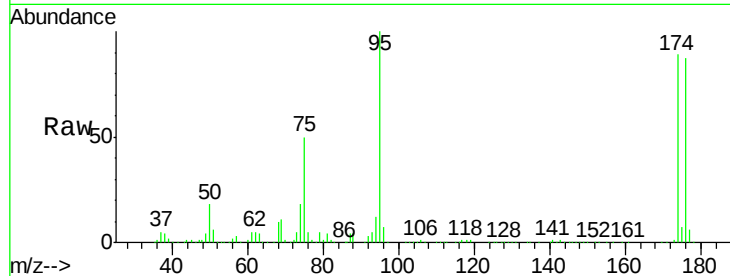




#62
4-Bromofluorobenzene
Concen: 44.607 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011223.D
Acq: 31 Jul 2019 03:01

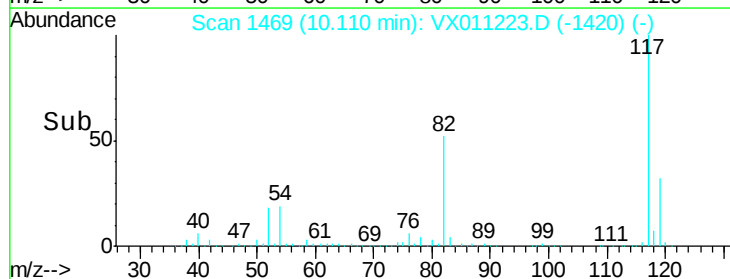
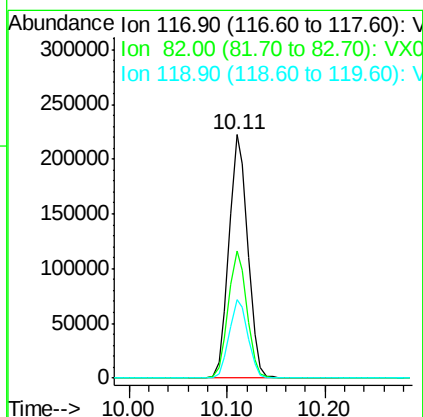
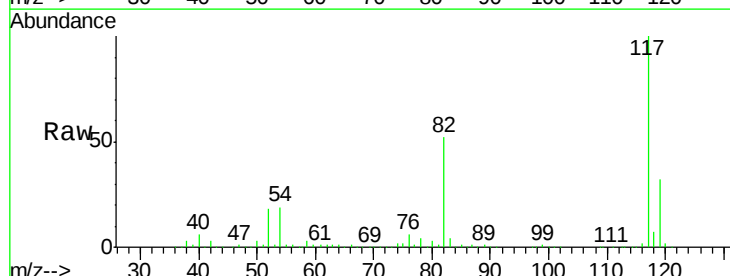
Instrument :
MSVOA_X
ClientSampleId :
PB121803ZHE#03

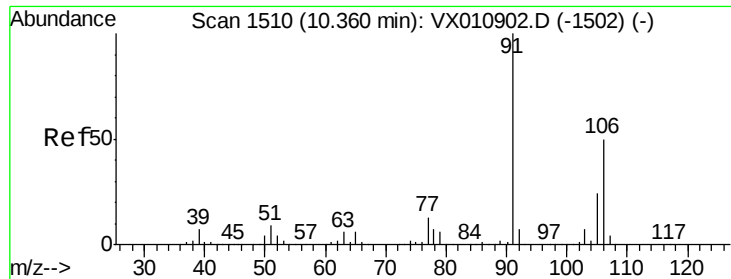
Tgt Ion: 95 Resp: 127910
Ion Ratio Lower Upper
95 100
174 92.6 0.0 180.6
176 90.1 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011223.D
Acq: 31 Jul 2019 03:01

Tgt Ion: 117 Resp: 297549
Ion Ratio Lower Upper
117 100
82 52.3 42.6 63.8
119 32.3 25.9 38.9

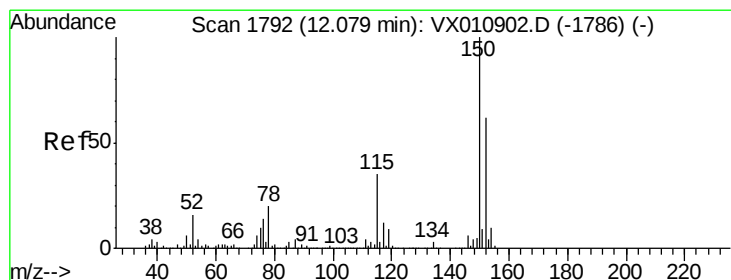
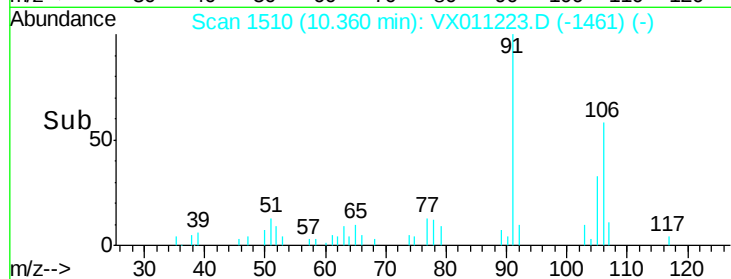
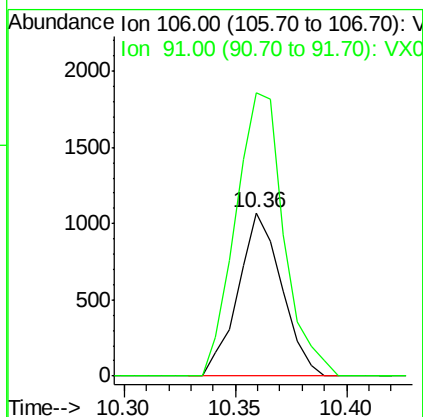
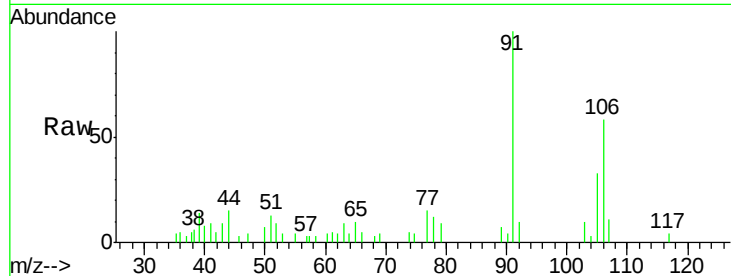




#68
m/p-Xylenes
Concen: 0.367 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX011223.D
Acq: 31 Jul 2019 03:01

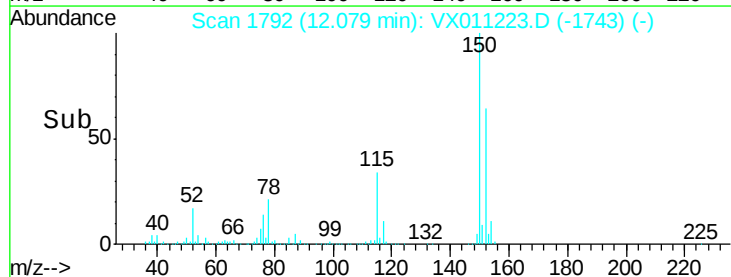
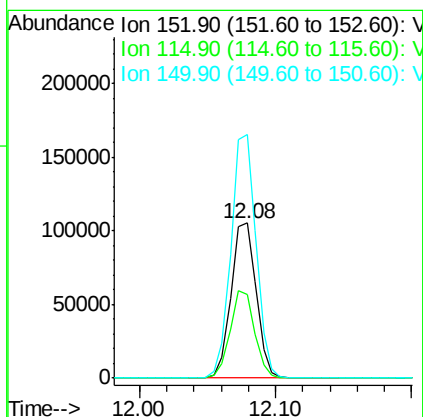
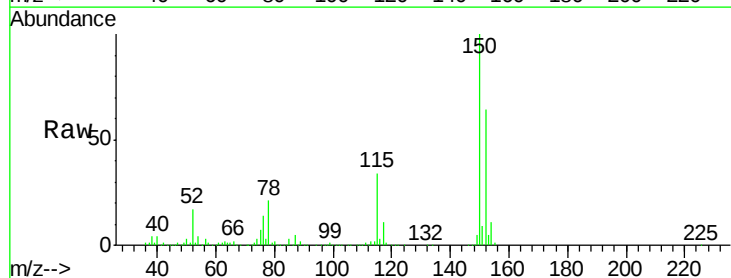
Instrument :
MSVOA_X
ClientSampleId :
PB121803ZHE#03

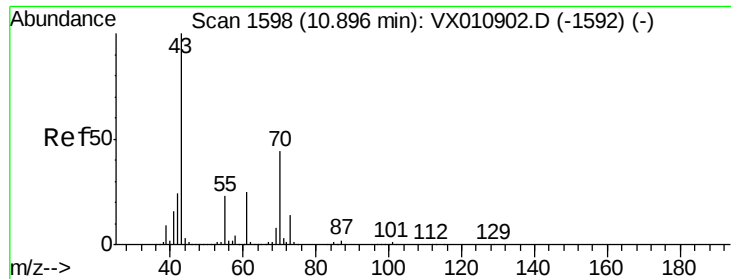
Tgt Ion:106 Resp: 1463
Ion Ratio Lower Upper
106 100
91 192.4 160.1 240.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011223.D
Acq: 31 Jul 2019 03:01

Tgt Ion:152 Resp: 135220
Ion Ratio Lower Upper
152 100
115 55.2 39.7 119.1
150 156.8 0.0 345.6





#74

N-ethyl acetate

Concen: 2.648 ug/l

RT: 10.69 min Scan# 1564

Delta R.T. -0.21 min

Lab File: VX011223.D

Acq: 31 Jul 2019 03:01

Instrument :

MSVOA_X

ClientSampleId :

PB121803ZHE#03

Tgt Ion: 43 Resp: 9246

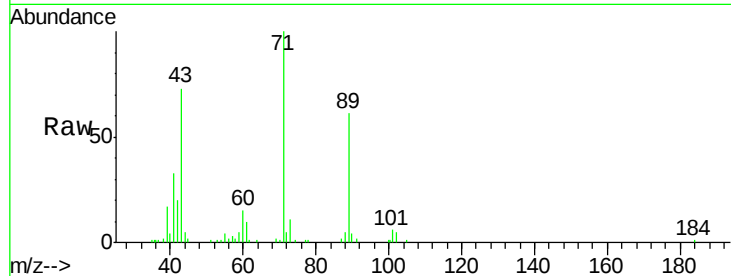
Ion Ratio Lower Upper

43 100

70 2.9 34.7 52.1#

55 6.0 19.1 28.7#

61 12.2 19.9 29.9#

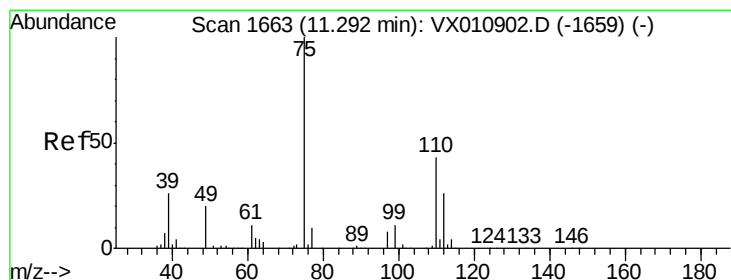
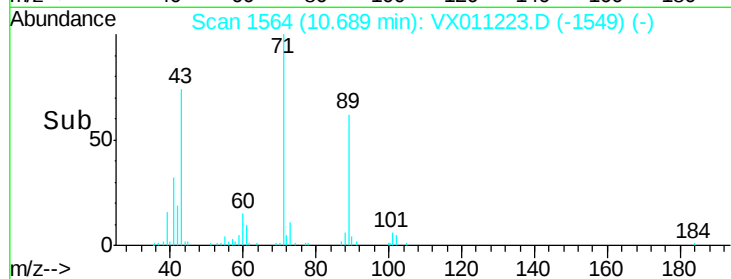
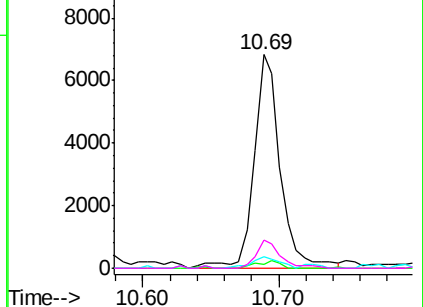


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 26.679 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011223.D

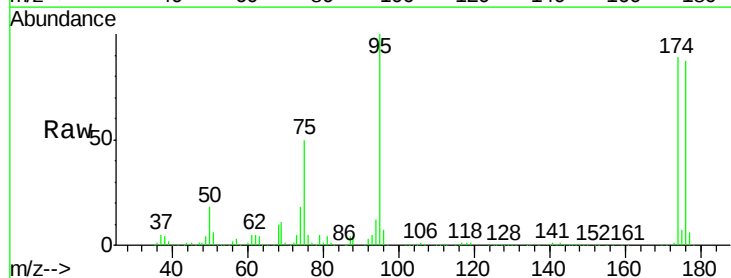
Acq: 31 Jul 2019 03:01

Tgt Ion: 75 Resp: 65101

Ion Ratio Lower Upper

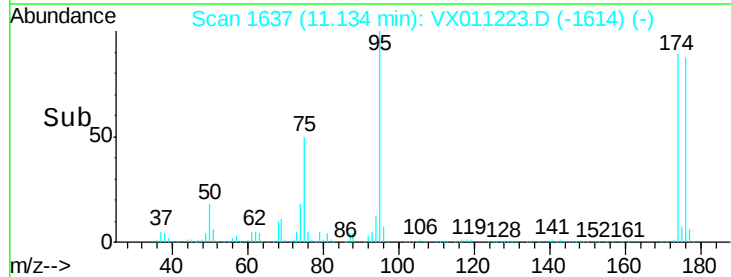
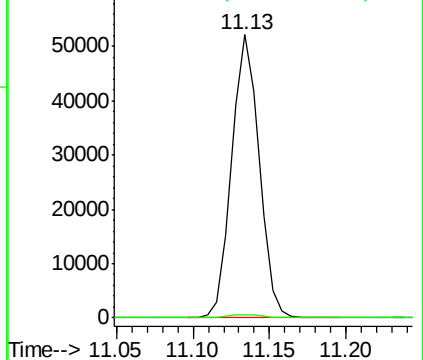
75 100

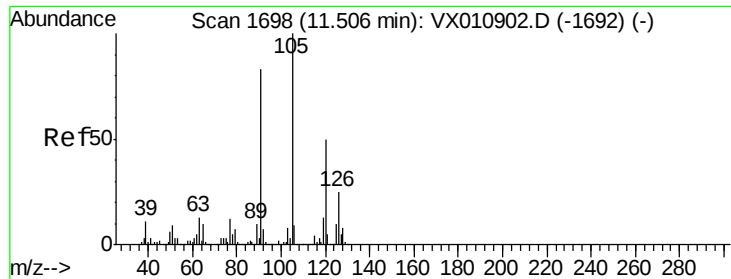
77 1.3 21.3 64.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

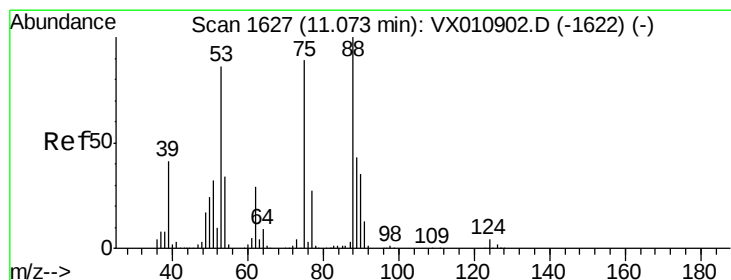
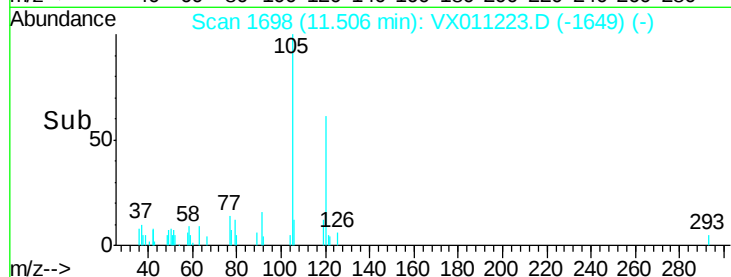
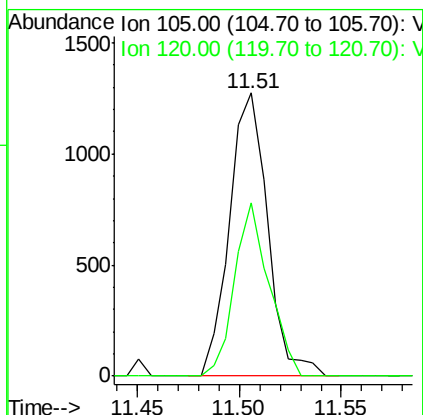
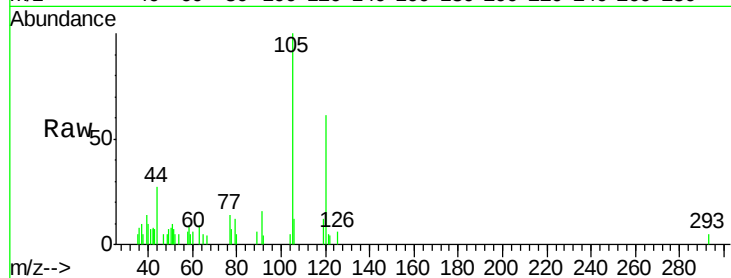




#80
 1,3,5-Trimethylbenzene
 Concen: 0.217 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX011223.D
 Acq: 31 Jul 2019 03:01

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121803ZHE#03

Tgt Ion: 105 Resp: 1653
 Ion Ratio Lower Upper
 105 100
 120 55.1 24.6 73.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.193 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011223.D
 Acq: 31 Jul 2019 03:01

Tgt Ion: 75 Resp: 65101
 Ion Ratio Lower Upper
 75 100
 53 0.2 76.7 115.1#
 89 0.0 38.5 57.7#

