

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY012720\
 Data File : VY001404.D
 Acq On : 27 Jan 2020 14:38
 Operator : SY/MD
 Sample : L1007-01RE
 Misc : 6.59G/5ML/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 JC-03-012320-A

Quant Time: Jan 27 16:13:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y012120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 01:21:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	176414	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.70	114	317269	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.49	117	268887	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	108031	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	96146	50.09	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	100.18%	
35) Dibromofluoromethane	7.73	113	93562	50.25	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	100.50%	
50) Toluene-d8	10.18	98	369942	51.14	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.28%	
62) 4-Bromofluorobenzene	12.48	95	120727	41.90	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	83.80%	

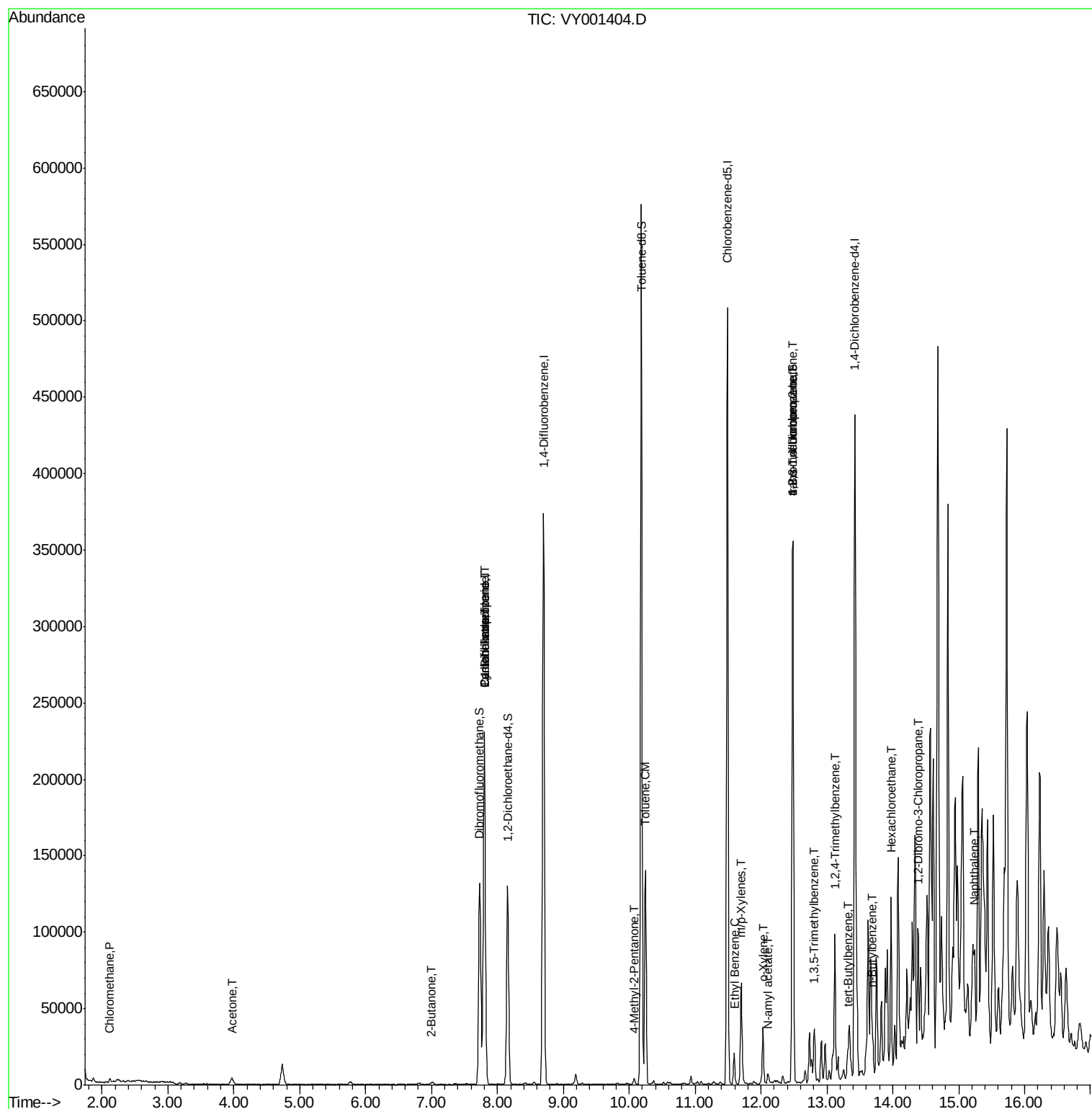
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.11	50	2141	1.02	ug/l	97
11) Tert butyl alcohol	4.97	59	74	Below	Cal #	74
13) Acrolein	3.60	56	21	Below	Cal #	69
16) Acetone	3.96	43	8086	8.67	ug/l	89
20) Methylene Chloride	4.74	84	9348	Below	Cal	98
25) 2-Butanone	7.01	43	1806	2.16	ug/l #	89
31) Cyclohexane	7.80	56	4760	1.28	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	13995	4.67	ug/l #	49
38) Carbon Tetrachloride	7.80	117	16674	6.24	ug/l #	17
51) 4-Methyl-2-Pentanone	10.08	43	2888	1.57	ug/l	98
52) Toluene	10.25	92	57926	10.17	ug/l	100
67) Ethyl Benzene	11.59	91	13764	1.32	ug/l	98
68) m/p-Xylenes	11.70	106	19496	5.00	ug/l	98
69) o-Xylene	12.03	106	9886	2.63	ug/l	91
74) N-amyl acetate	12.11	43	4151	1.49	ug/l #	45
76) 1,2,3-Trichloropropane	12.48	75	59015	45.33	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.81	105	10412	1.46	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.48	75	59015	85.79	ug/l #	14
83) tert-Butylbenzene	13.31	119	6738	1.12	ug/l	68
84) 1,2,4-Trimethylbenzene	13.12	105	48426	6.78	ug/l	97
89) n-Butylbenzene	13.70	91	11617	1.54	ug/l #	75
90) Hexachloroethane	13.97	117	4624	3.25	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.39	75	319	1.01	ug/l #	1
95) Naphthalene	15.24	128	25234	4.90	ug/l #	90

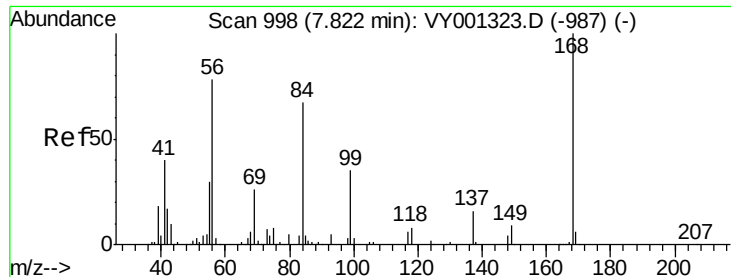
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jan 23 01:21:47 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.02 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

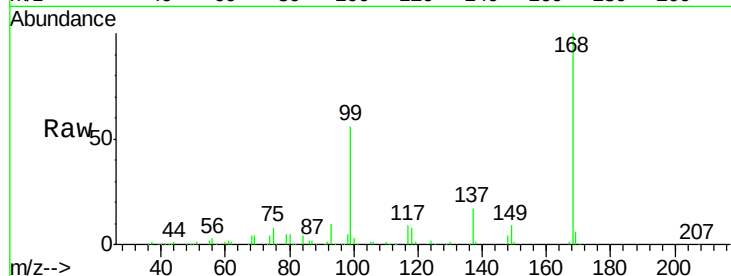
JC-03-012320-A

Tgt Ion:168 Resp: 176414

Ion Ratio Lower Upper

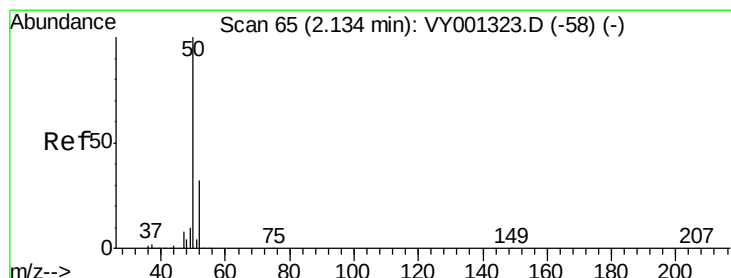
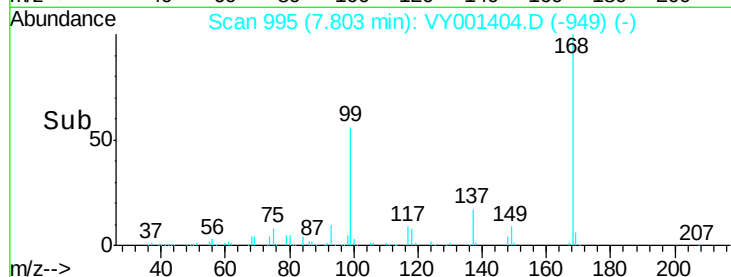
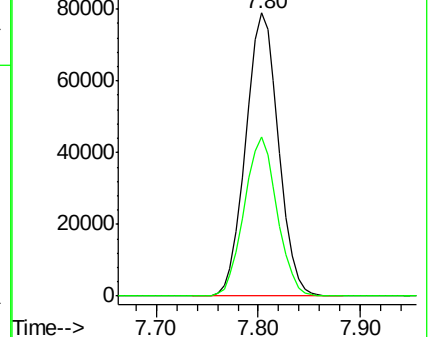
168 100

99 56.2 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): VY001323.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY001323.D (-987) (-)



#3

Chloromethane

Concen: 1.02 ug/l

RT: 2.11 min Scan# 62

Delta R.T. -0.02 min

Lab File: VY001404.D

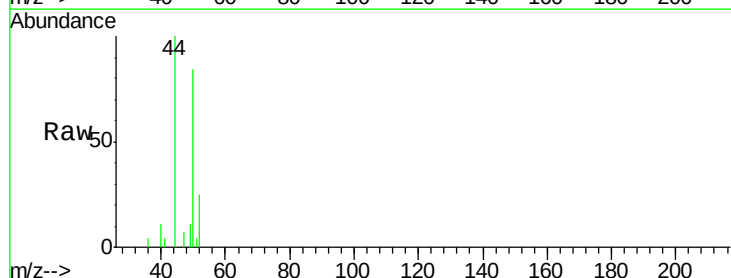
Acq: 27 Jan 2020 14:38

Tgt Ion: 50 Resp: 2141

Ion Ratio Lower Upper

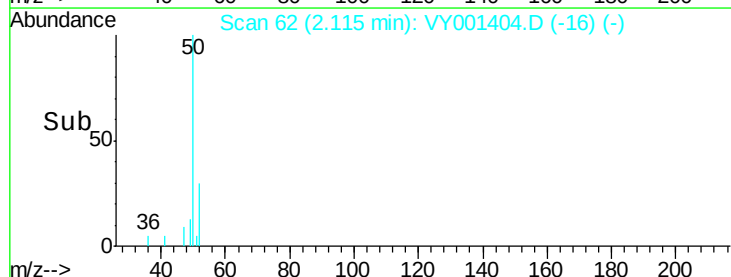
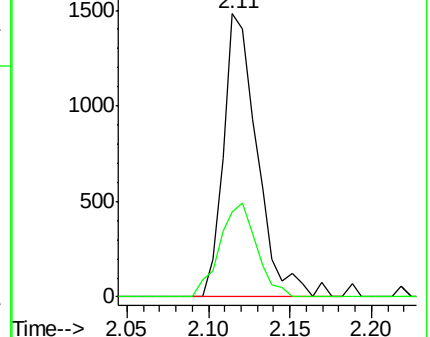
50 100

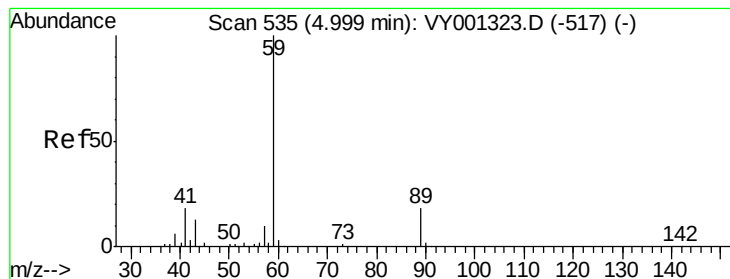
52 30.2 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VY001323.D (-58) (-)

Ion 51.90 (51.60 to 52.60): VY001323.D (-58) (-)



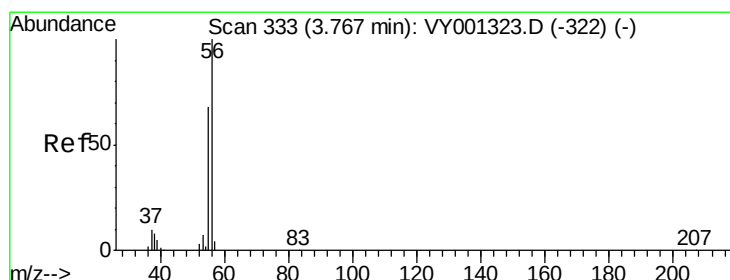
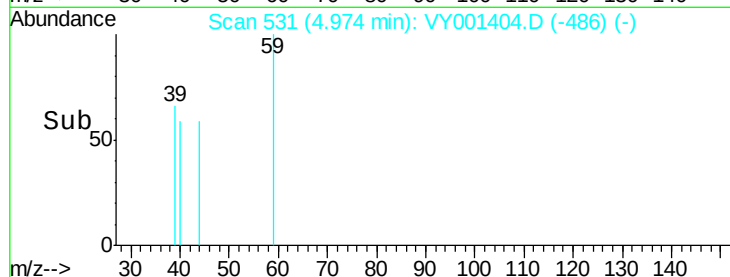
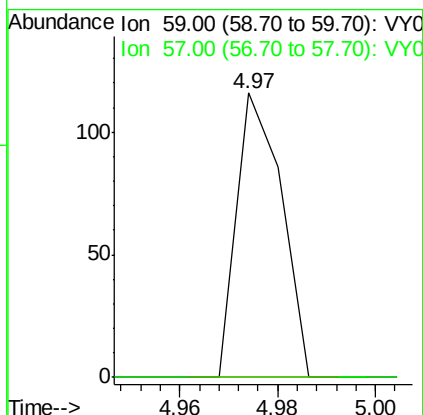
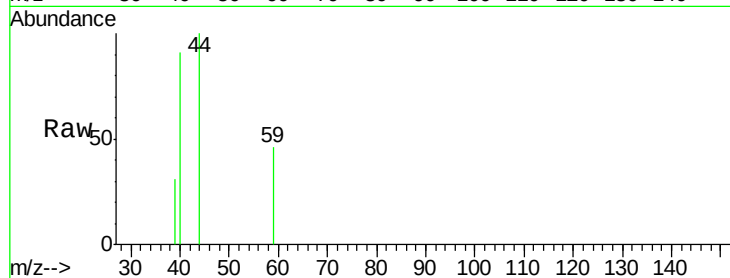


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 4.97 min Scan# 531
 Delta R.T. -0.02 min
 Lab File: VY001404.D
 Acq: 27 Jan 2020 14:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 JC-03-012320-A

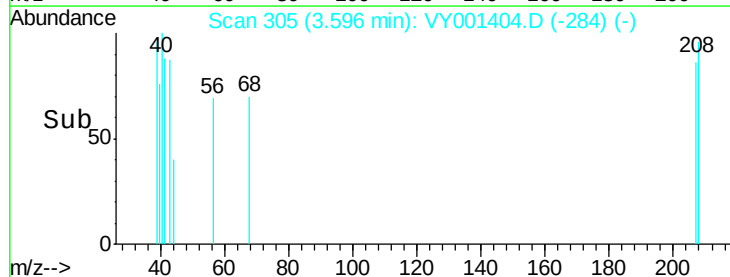
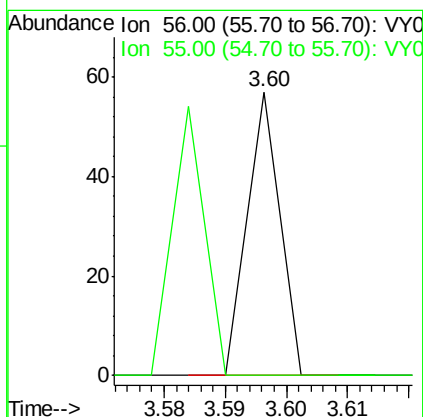
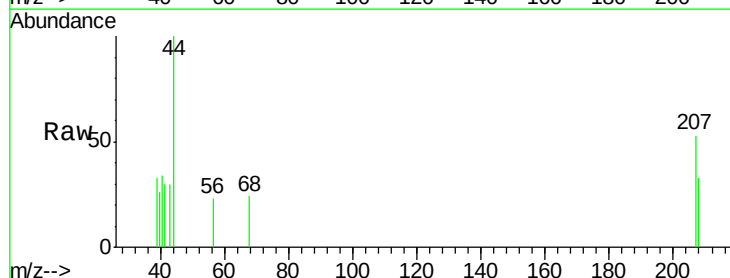
Tgt Ion: 59 Resp: 74
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.4 11.2#

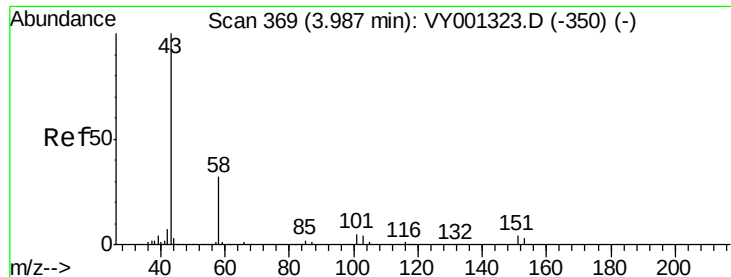


#13

Acrolein
 Concen: Below Cal
 RT: 3.60 min Scan# 305
 Delta R.T. -0.17 min
 Lab File: VY001404.D
 Acq: 27 Jan 2020 14:38

Tgt Ion: 56 Resp: 21
 Ion Ratio Lower Upper
 56 100
 55 95.2 55.9 83.9#





#16

Acetone

Concen: 8.67 ug/l

RT: 3.96 min Scan# 365

Delta R.T. -0.02 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

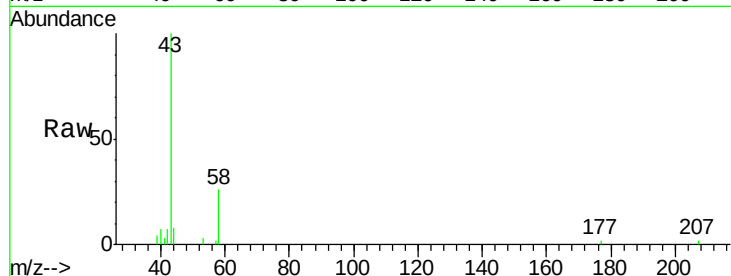
JC-03-012320-A

Tgt Ion: 43 Resp: 8086

Ion Ratio Lower Upper

43 100

58 25.6 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

3.96

2500

2000

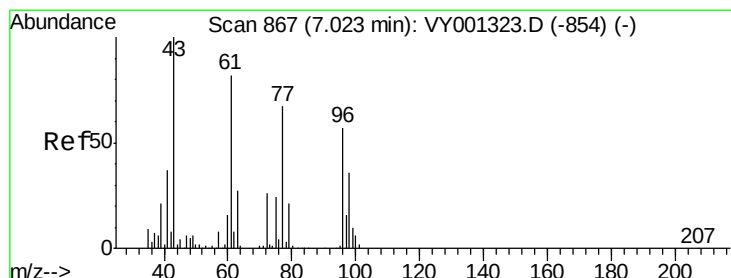
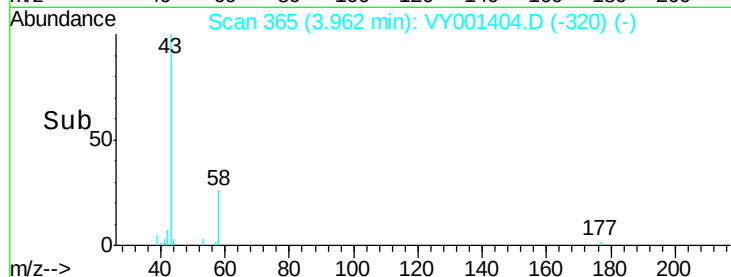
1500

1000

500

0

Time-->



#25

2-Butanone

Concen: 2.16 ug/l

RT: 7.01 min Scan# 865

Delta R.T. -0.01 min

Lab File: VY001404.D

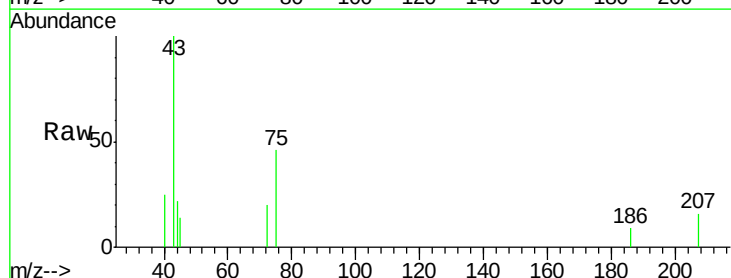
Acq: 27 Jan 2020 14:38

Tgt Ion: 43 Resp: 1806

Ion Ratio Lower Upper

43 100

72 20.3 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

7.01

800

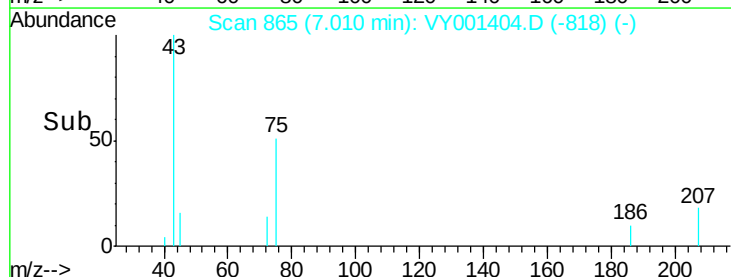
600

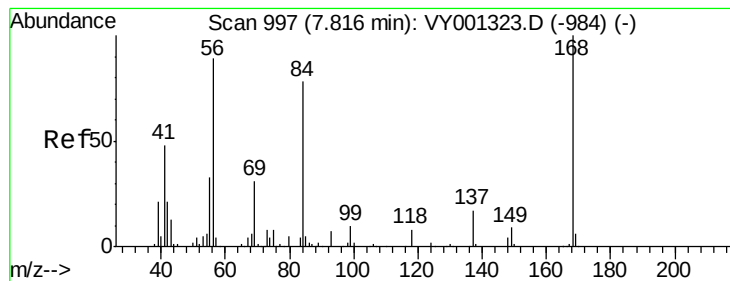
400

200

0

Time-->





#31

Cyclohexane

Concen: 1.28 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.01 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

JC-03-012320-A

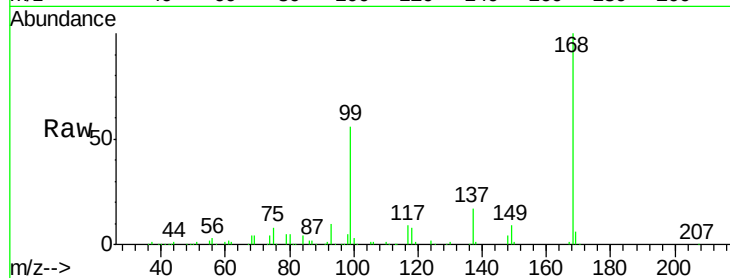
Tgt Ion: 56 Resp: 4760

Ion Ratio Lower Upper

56 100

69 154.0 27.6 41.4#

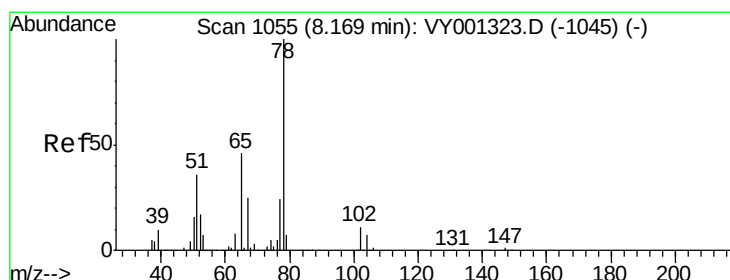
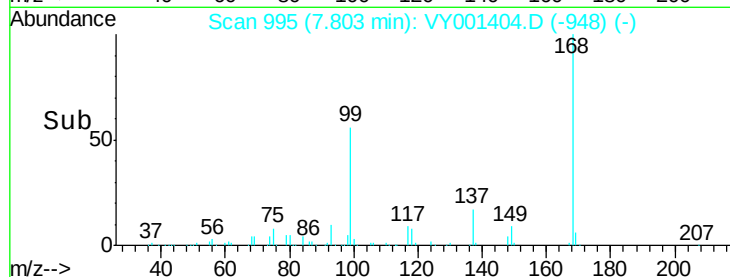
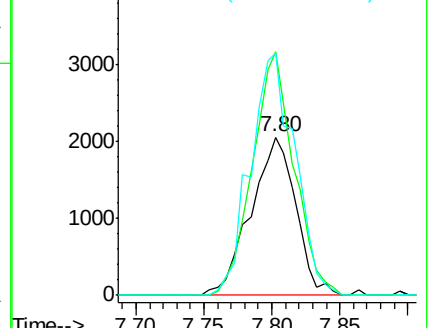
84 153.6 69.7 104.5#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 50.09 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.02 min

Lab File: VY001404.D

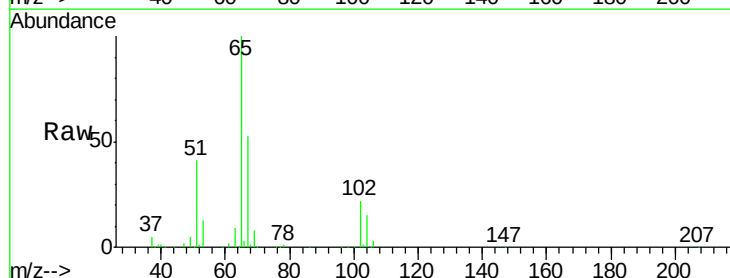
Acq: 27 Jan 2020 14:38

Tgt Ion: 65 Resp: 96146

Ion Ratio Lower Upper

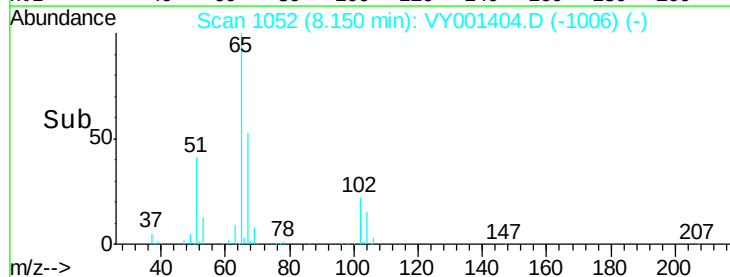
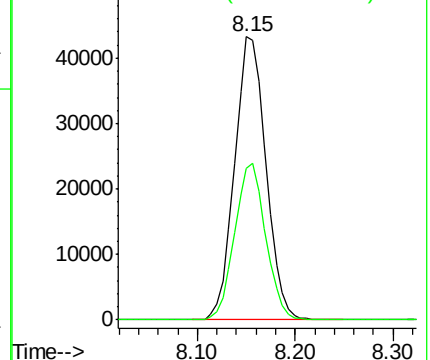
65 100

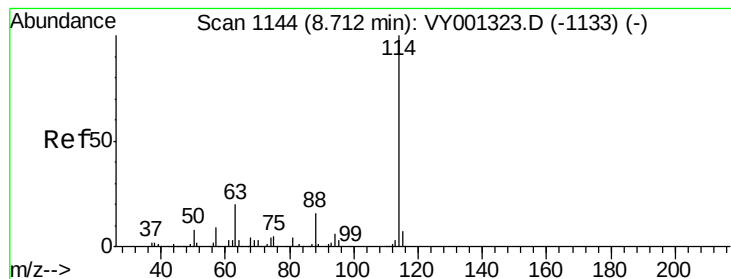
67 54.5 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

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MSVOA_Y

ClientSampleId :

JC-03-012320-A

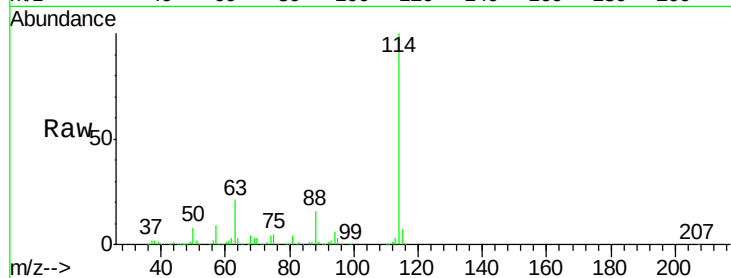
Tgt Ion:114 Resp: 317269

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

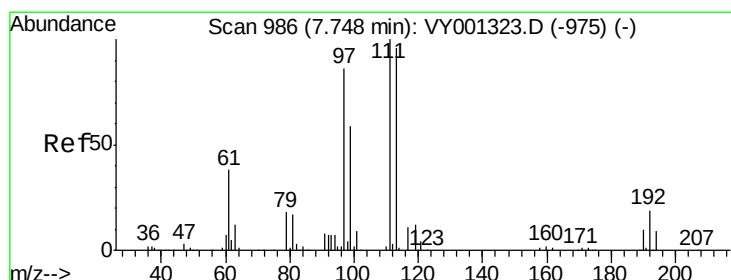
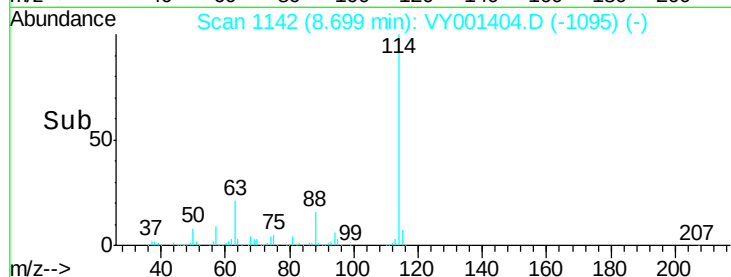
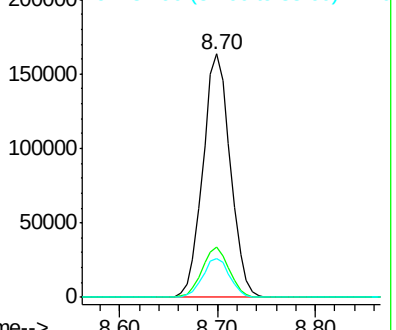
88 16.2 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 50.25 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.02 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

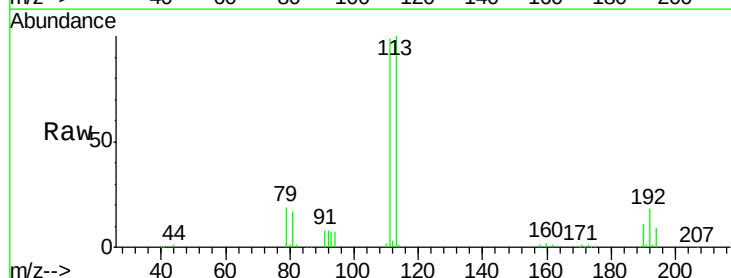
Tgt Ion:113 Resp: 93562

Ion Ratio Lower Upper

113 100

111 102.4 82.8 124.2

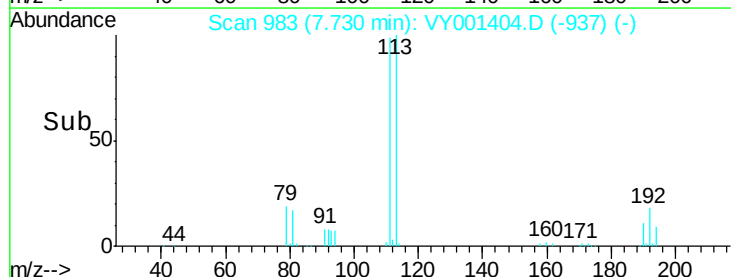
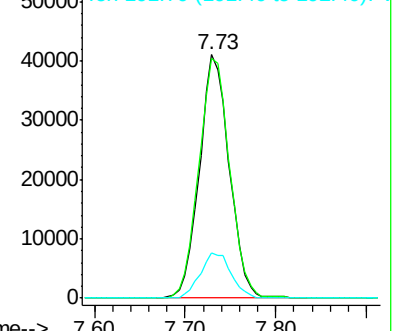
192 19.2 15.5 23.3

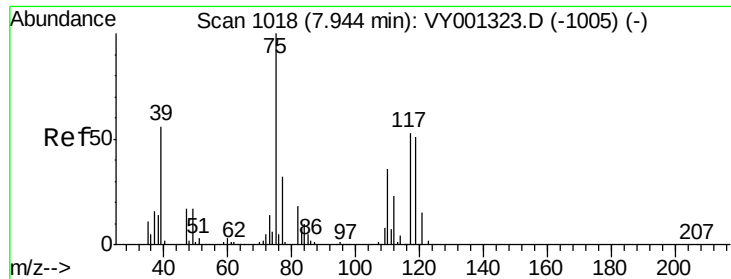


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

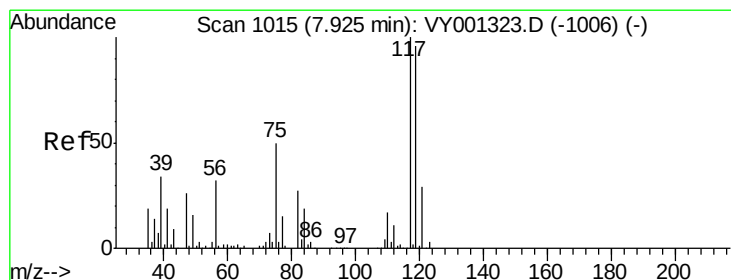
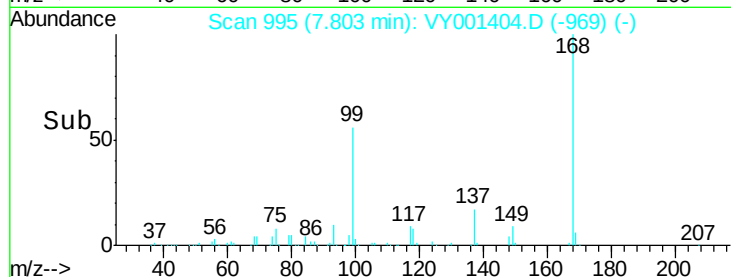
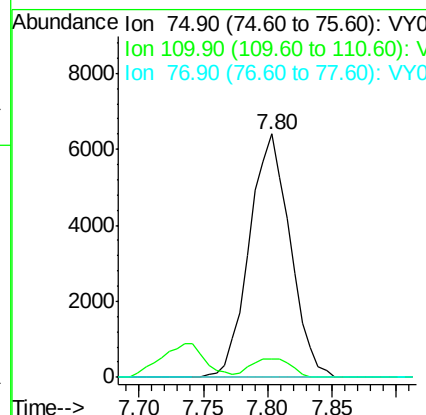
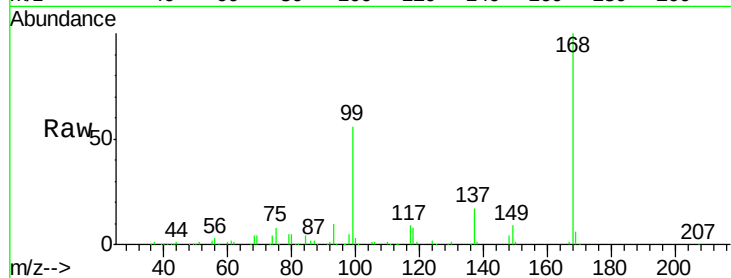




#36
 1,1-Dichloropropene
 Concen: 4.67 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.14 min
 Lab File: VY001404.D
 Acq: 27 Jan 2020 14:38

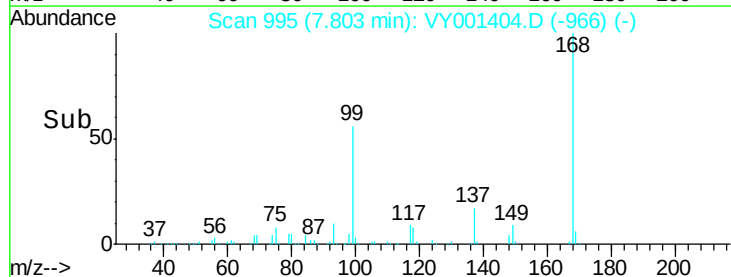
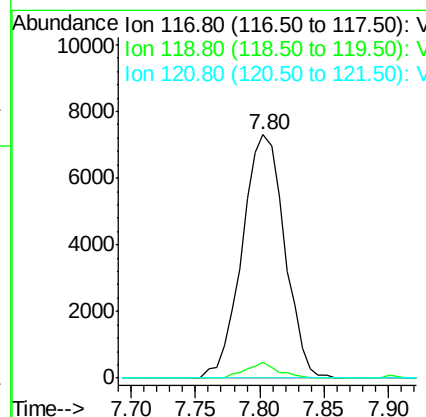
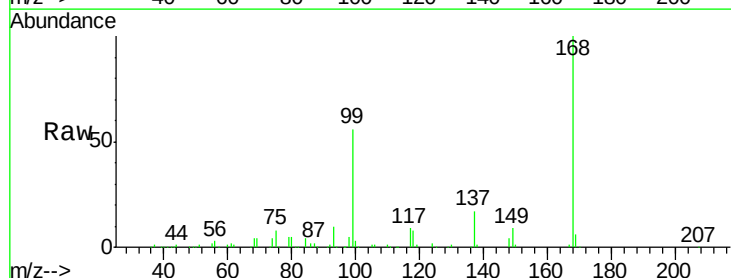
Instrument :
 MSVOA_Y
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 JC-03-012320-A

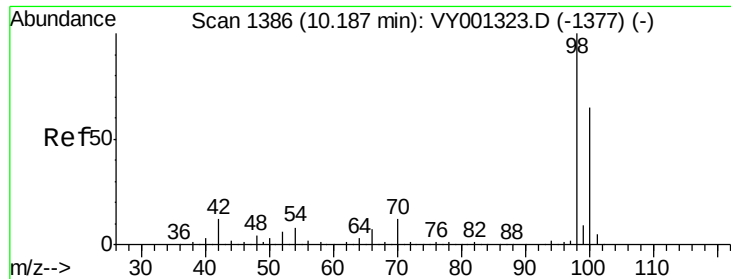
Tgt Ion: 75 Resp: 13995
 Ion Ratio Lower Upper
 75 100
 110 7.7 17.6 52.8#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.24 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.12 min
 Lab File: VY001404.D
 Acq: 27 Jan 2020 14:38

Tgt Ion: 117 Resp: 16674
 Ion Ratio Lower Upper
 117 100
 119 6.6 76.3 114.5#
 121 0.0 23.5 35.3#





#50

Toluene-d8

Concen: 51.14 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

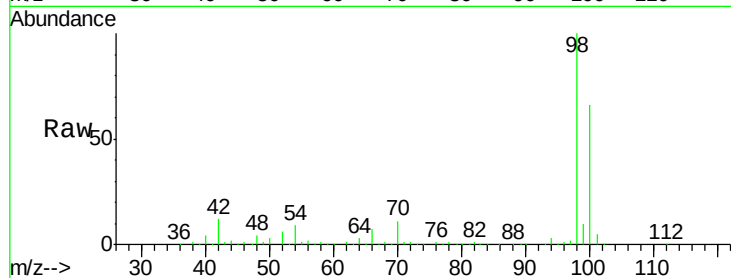
JC-03-012320-A

Tgt Ion: 98 Resp: 369942

Ion Ratio Lower Upper

98 100

100 65.8 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0

250000

200000

150000

100000

50000

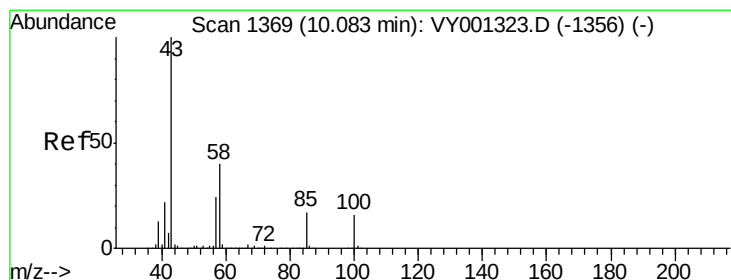
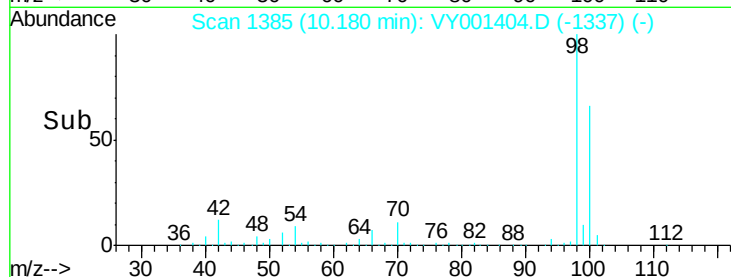
0

10.10

10.20

10.30

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.57 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VY001404.D

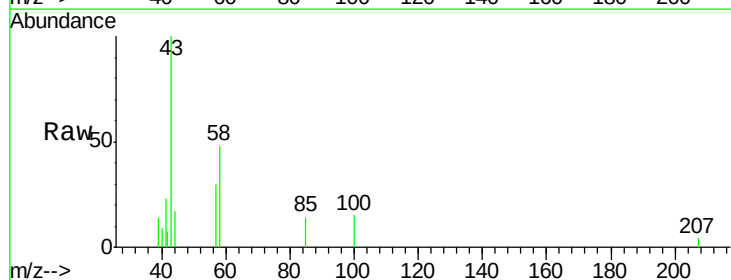
Acq: 27 Jan 2020 14:38

Tgt Ion: 43 Resp: 2888

Ion Ratio Lower Upper

43 100

58 38.1 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

1500

1000

500

0

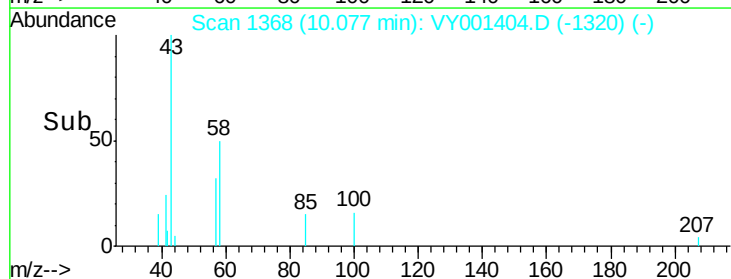
10.00

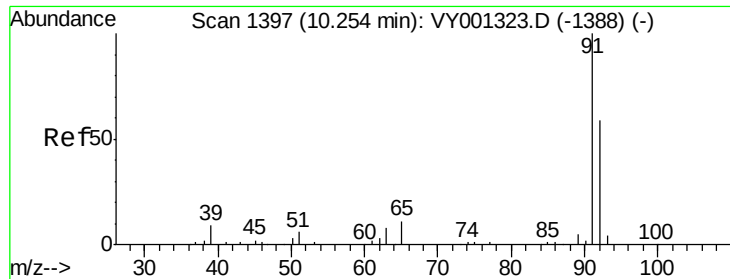
10.05

10.10

10.15

Time-->





#52

Toluene

Concen: 10.17 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. -0.01 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

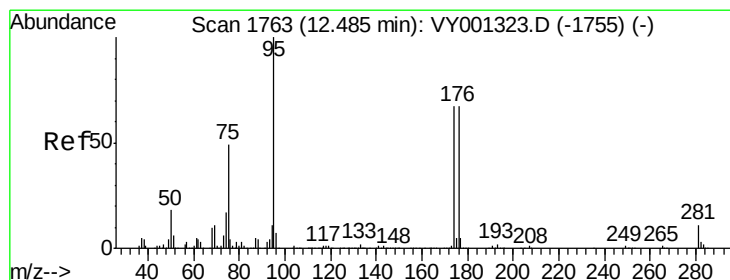
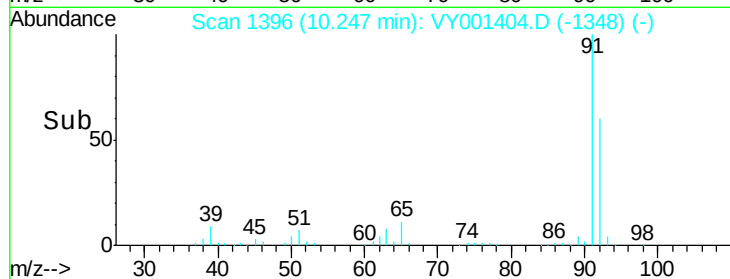
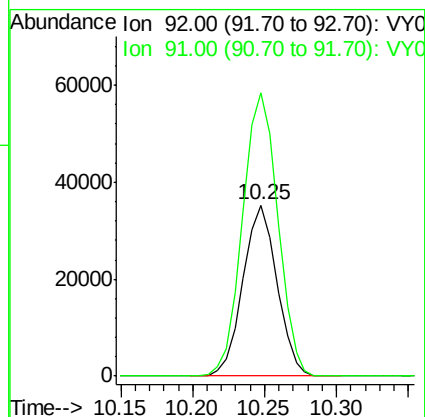
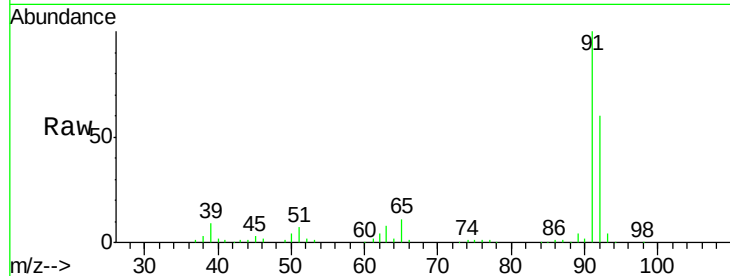
JC-03-012320-A

Tgt Ion: 92 Resp: 57926

Ion Ratio Lower Upper

92 100

91 171.0 136.4 204.6



#62

4-Bromofluorobenzene

Concen: 41.90 ug/l

RT: 12.48 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

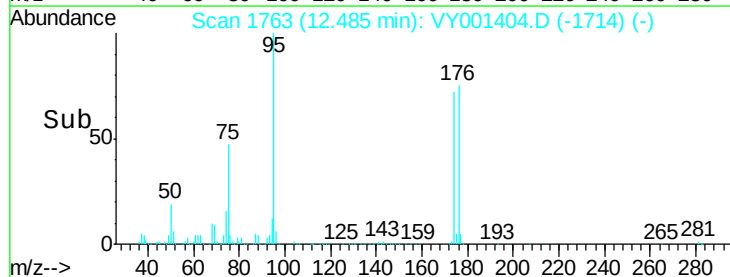
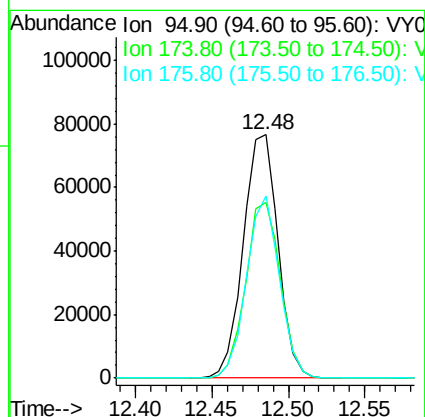
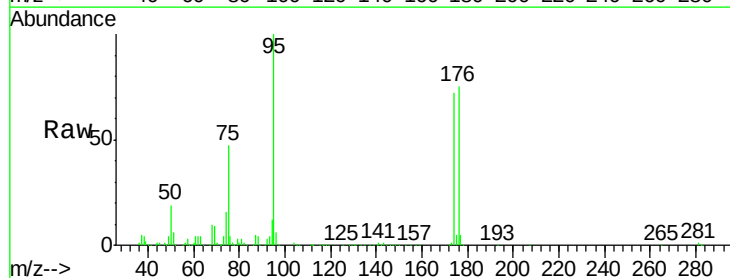
Tgt Ion: 95 Resp: 120727

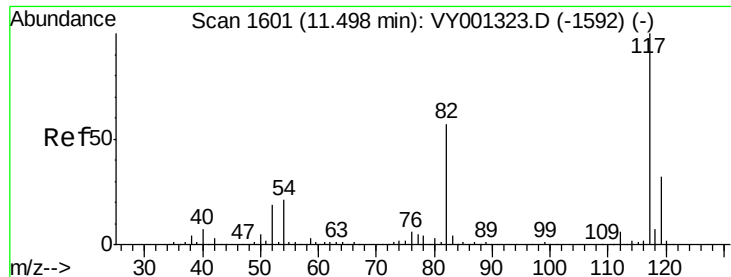
Ion Ratio Lower Upper

95 100

174 72.4 0.0 142.0

176 71.1 0.0 138.6

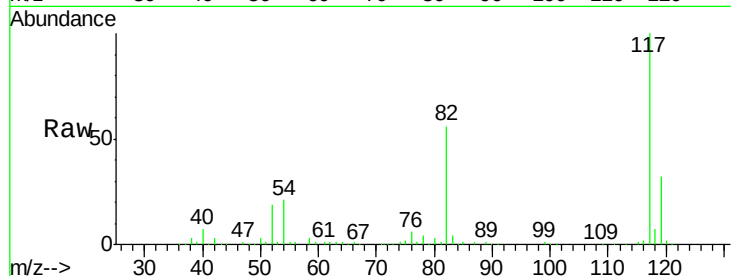




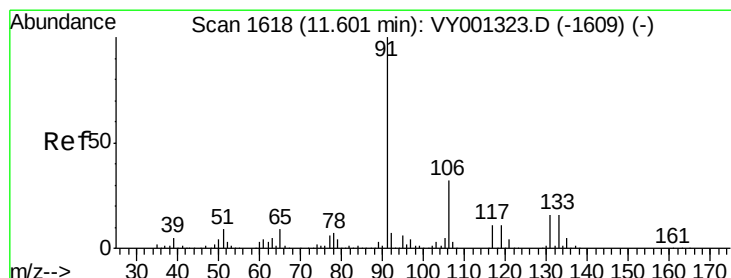
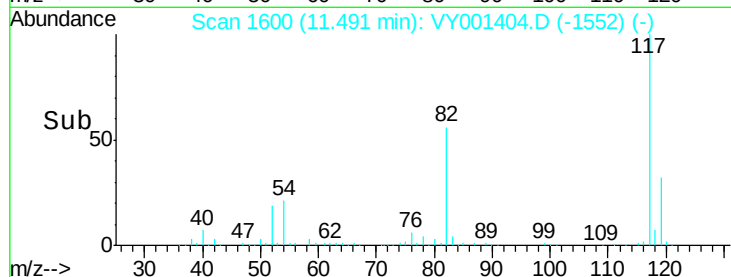
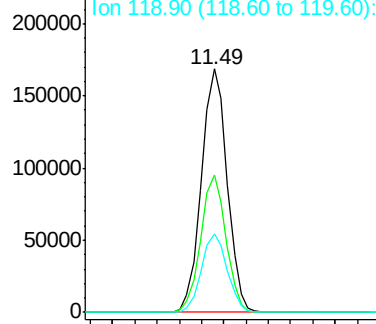
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY001404.D
Acq: 27 Jan 2020 14:38

Instrument :
MSVOA_Y
ClientSampleId :
JC-03-012320-A

Tgt Ion: 117 Resp: 268887
Ion Ratio Lower Upper
117 100
82 56.2 45.5 68.3
119 32.2 25.8 38.6

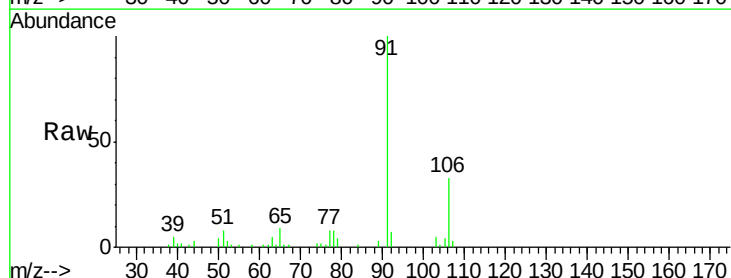


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

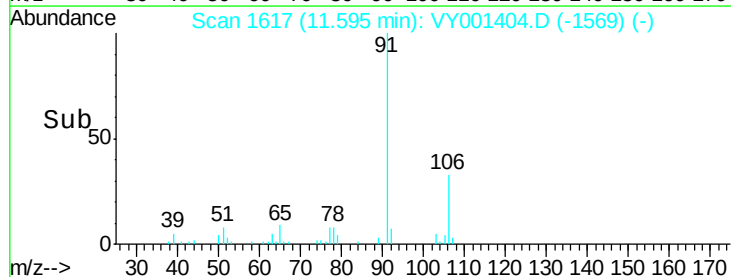
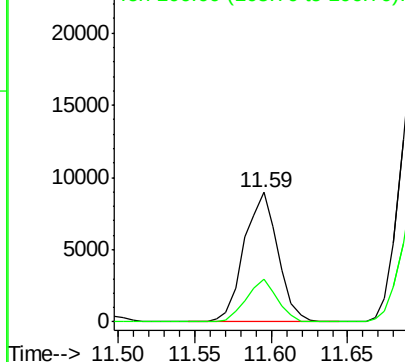


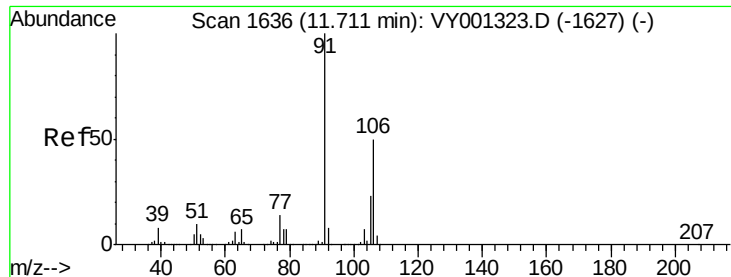
#67
Ethyl Benzene
Concen: 1.32 ug/l
RT: 11.59 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VY001404.D
Acq: 27 Jan 2020 14:38

Tgt Ion: 91 Resp: 13764
Ion Ratio Lower Upper
91 100
106 32.7 25.4 38.0



Abundance Ion 91.00 (90.70 to 91.70): VY0
Ion 106.00 (105.70 to 106.70): V

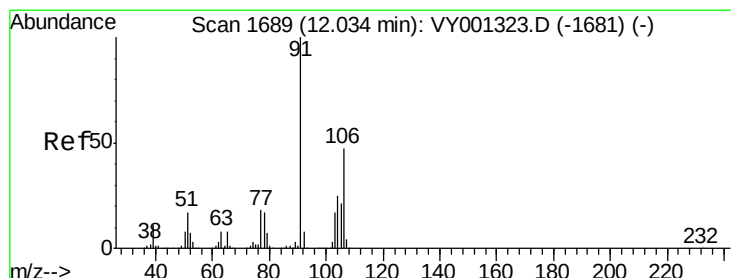
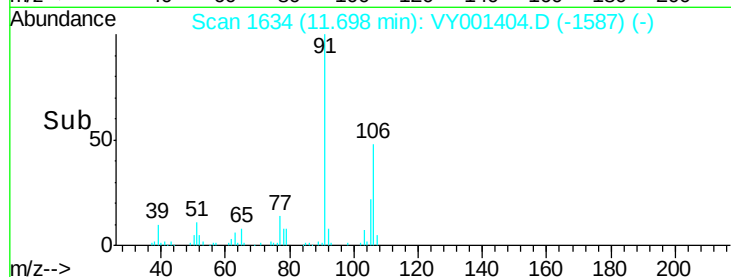
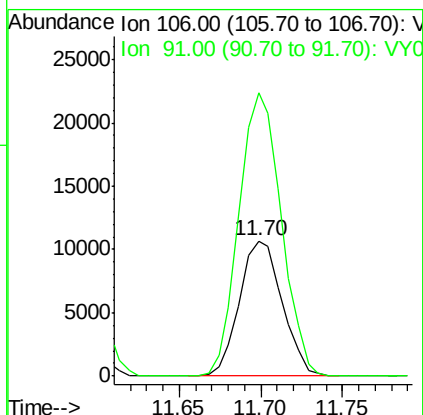
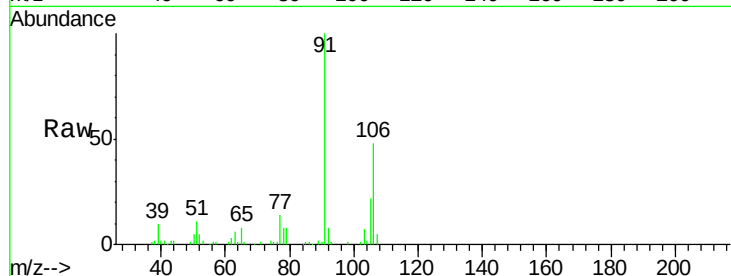




#68
m/p-Xylenes
Concen: 5.00 ug/l
RT: 11.70 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VY001404.D
Acq: 27 Jan 2020 14:38

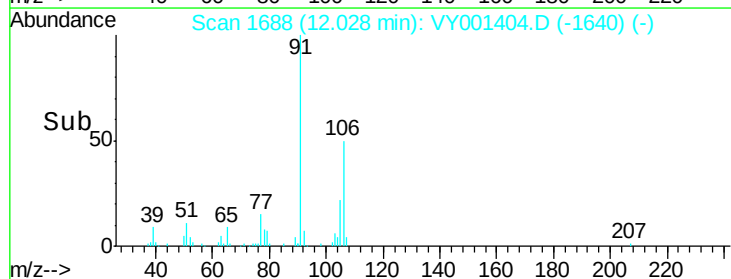
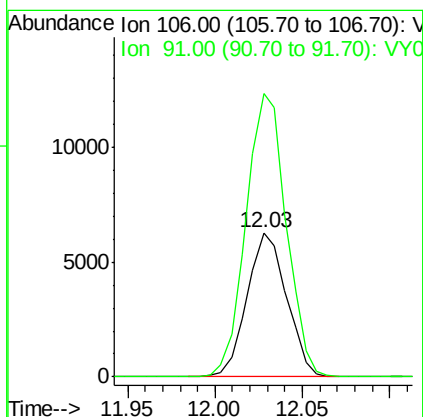
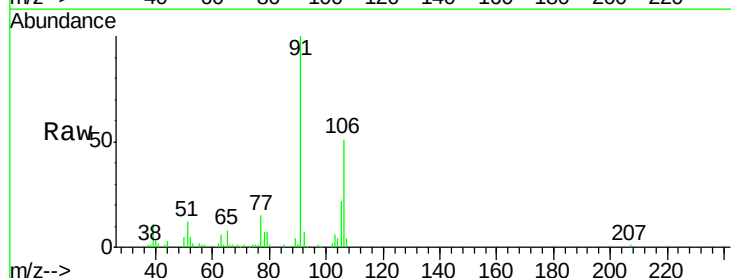
Instrument :
MSVOA_Y
ClientSampleId :
JC-03-012320-A

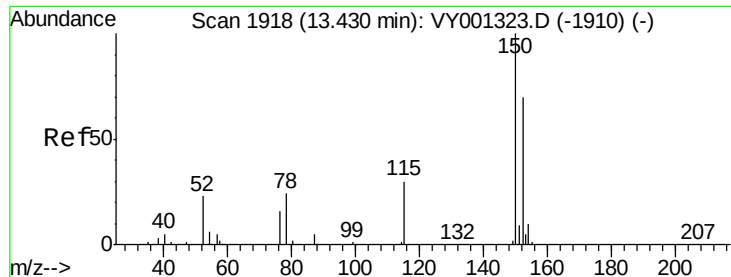
Tgt Ion:106 Resp: 19496
Ion Ratio Lower Upper
106 100
91 207.2 162.8 244.2



#69
o-Xylene
Concen: 2.63 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VY001404.D
Acq: 27 Jan 2020 14:38

Tgt Ion:106 Resp: 9886
Ion Ratio Lower Upper
106 100
91 199.1 106.3 319.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. -0.00 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

JC-03-012320-A

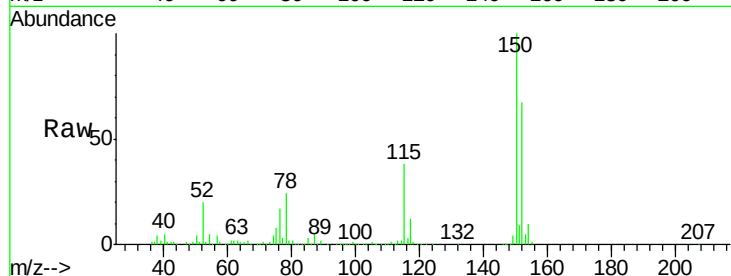
Tgt Ion:152 Resp: 108031

Ion Ratio Lower Upper

152 100

115 60.2 30.9 92.8

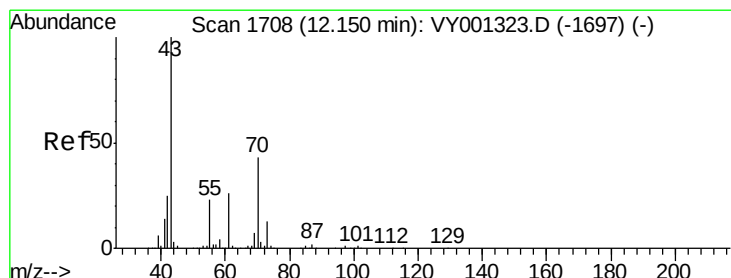
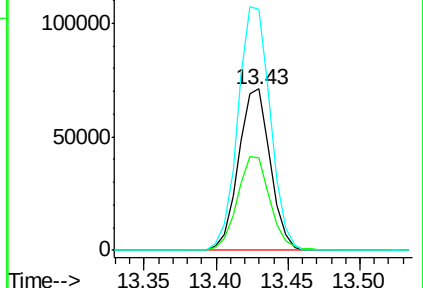
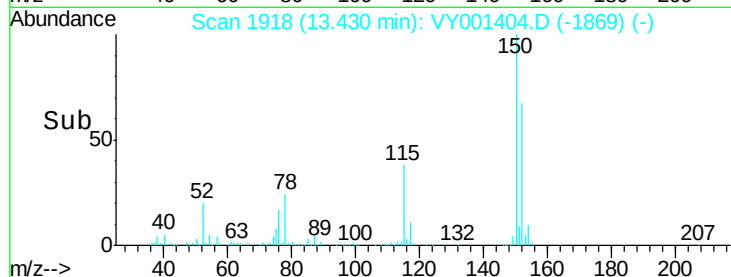
150 153.8 0.0 349.2



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-ethyl acetate

Concen: 1.49 ug/l

RT: 12.11 min Scan# 1701

Delta R.T. -0.04 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

Tgt Ion: 43 Resp: 4151

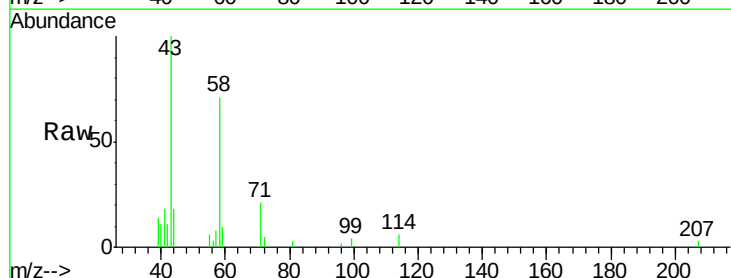
Ion Ratio Lower Upper

43 100

70 0.0 33.5 50.3#

55 3.9 18.2 27.2#

61 0.0 19.6 29.4#

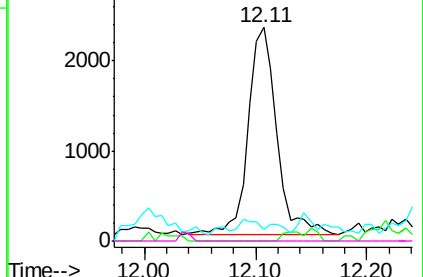
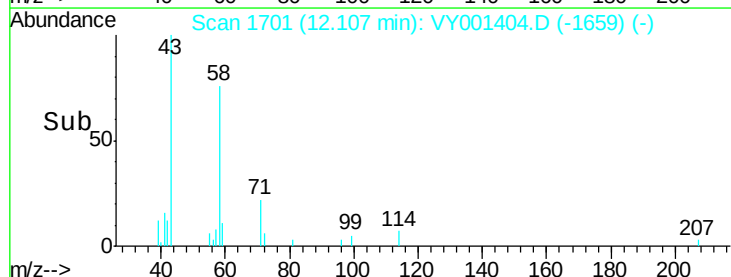


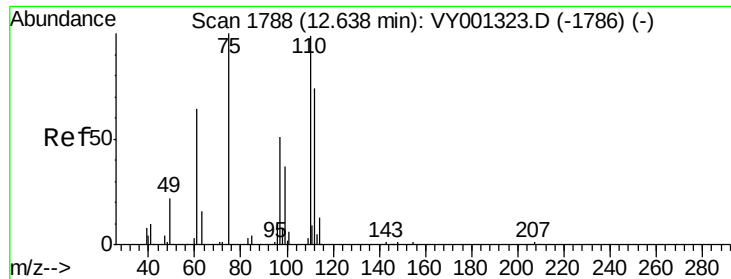
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0





#76

1,2,3-Trichloropropane

Concen: 45.33 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.16 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

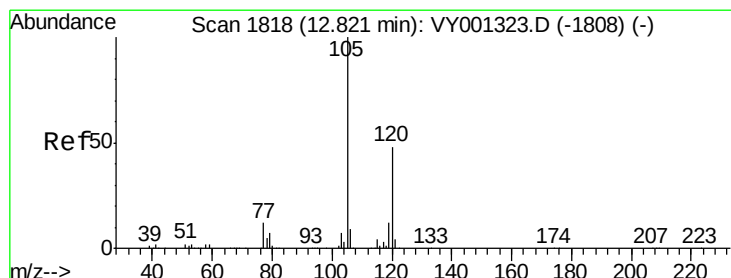
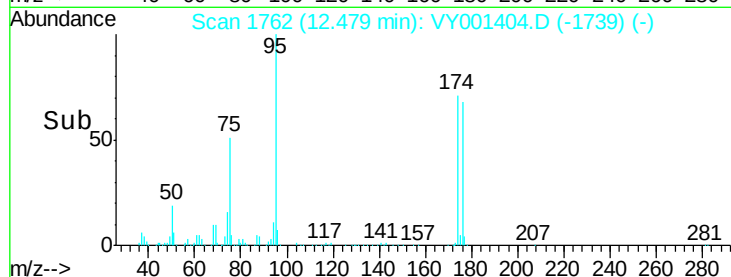
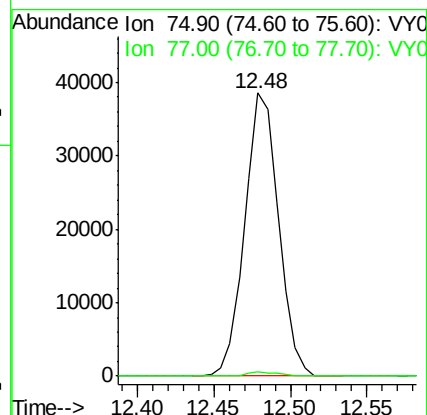
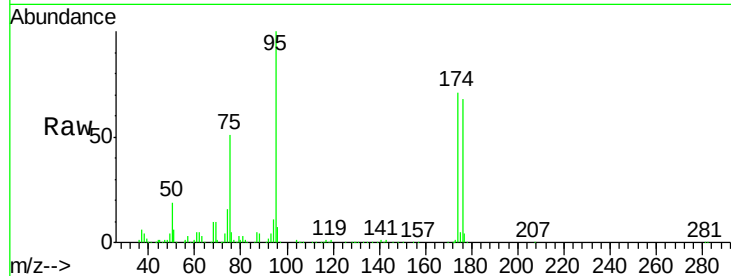
JC-03-012320-A

Tgt Ion: 75 Resp: 59015

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 1.46 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. -0.01 min

Lab File: VY001404.D

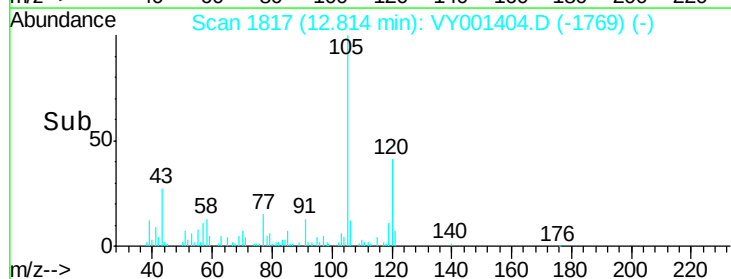
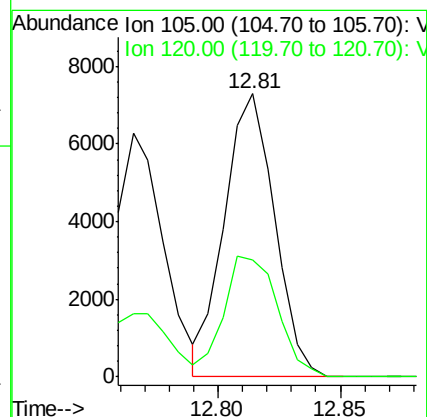
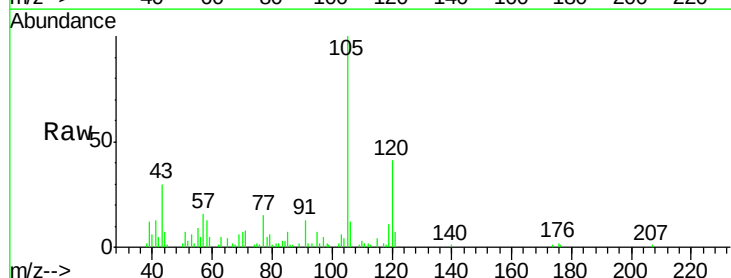
Acq: 27 Jan 2020 14:38

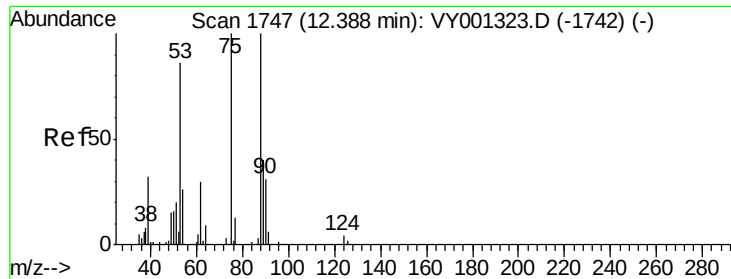
Tgt Ion: 105 Resp: 10412

Ion Ratio Lower Upper

105 100

120 45.7 24.3 72.9





#81

trans-1,4-Dichloro-2-butene

Concen: 85.79 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.09 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

JC-03-012320-A

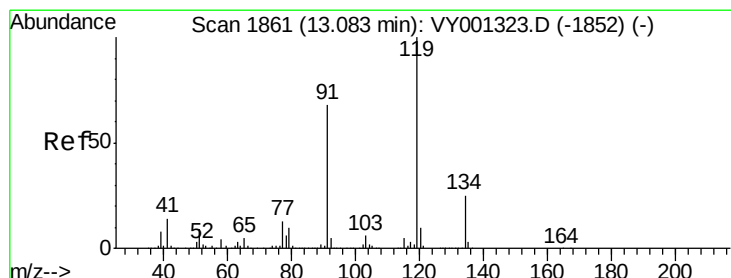
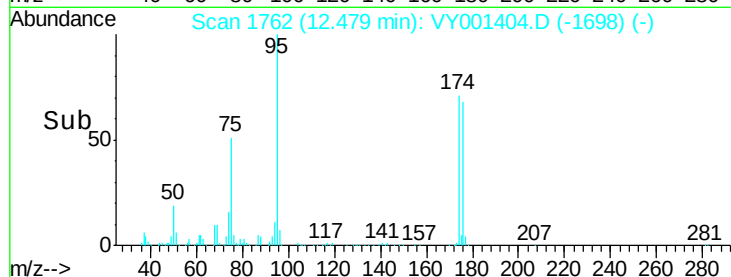
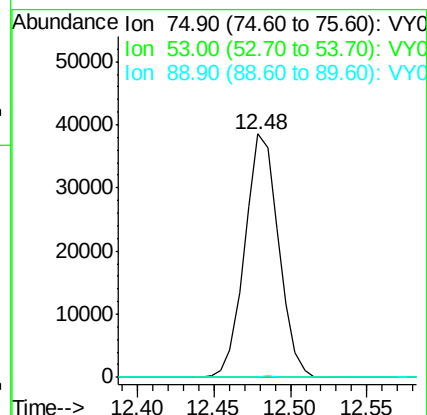
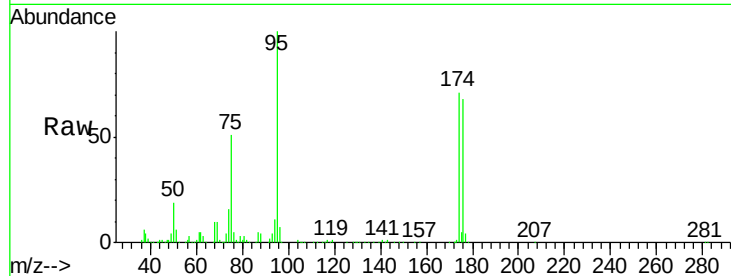
Tgt Ion: 75 Resp: 59015

Ion Ratio Lower Upper

75 100

53 0.0 69.9 104.9#

89 0.1 36.6 54.8#



#83

tert-Butylbenzene

Concen: 1.12 ug/l

RT: 13.31 min Scan# 1899

Delta R.T. 0.23 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

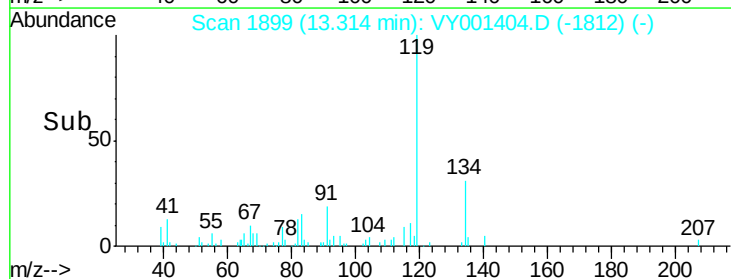
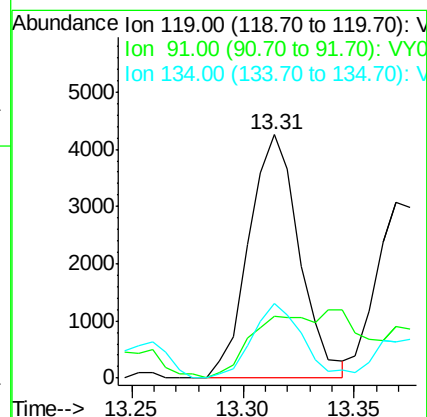
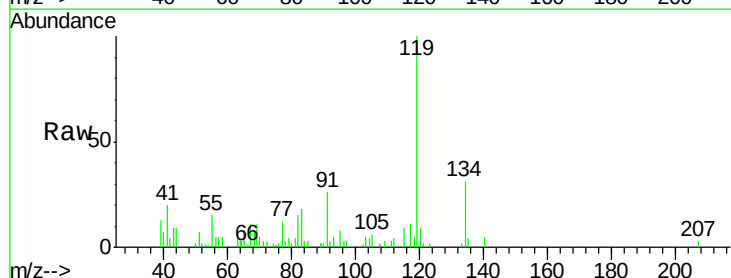
Tgt Ion: 119 Resp: 6738

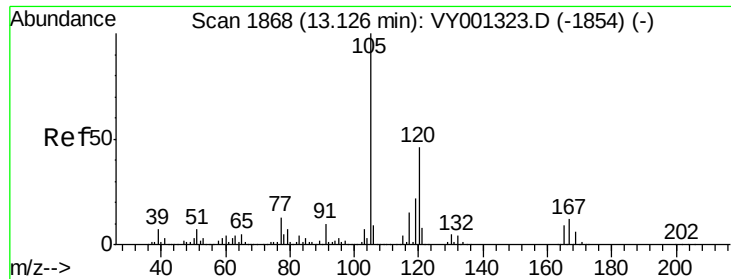
Ion Ratio Lower Upper

119 100

91 33.1 33.0 99.0

134 30.7 13.3 39.9

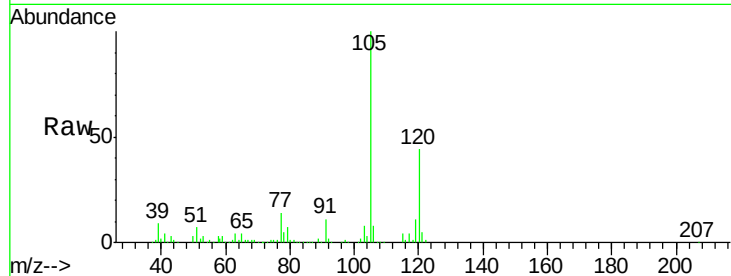




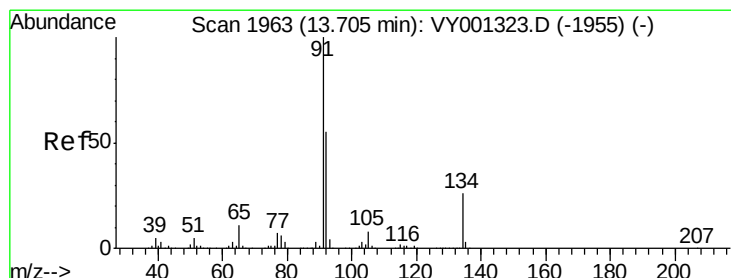
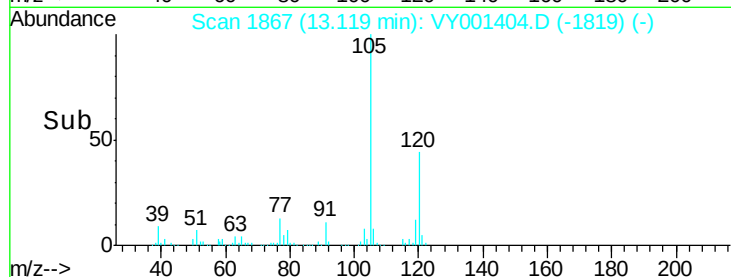
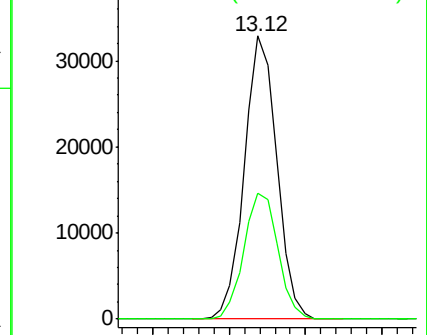
#84
 1,2,4-Trimethylbenzene
 Concen: 6.78 ug/l
 RT: 13.12 min Scan# 1867
 Delta R.T. -0.01 min
 Lab File: VY001404.D
 Acq: 27 Jan 2020 14:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 JC-03-012320-A

Tgt Ion: 105 Resp: 48426
 Ion Ratio Lower Upper
 105 100
 120 46.8 22.4 67.3

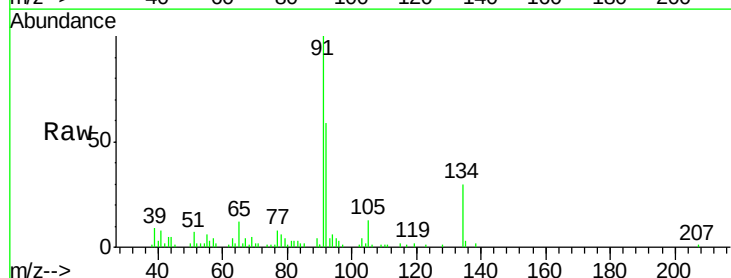


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

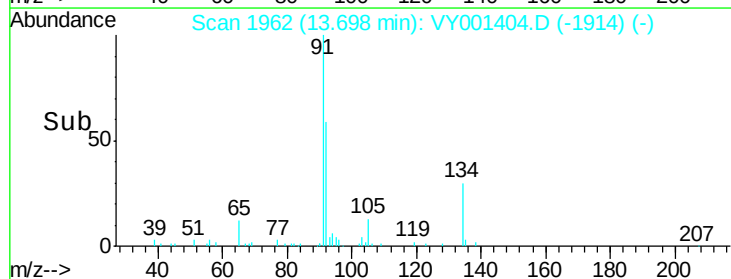
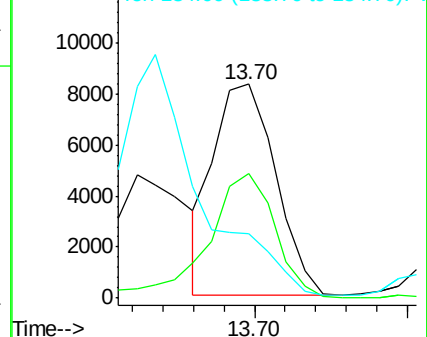


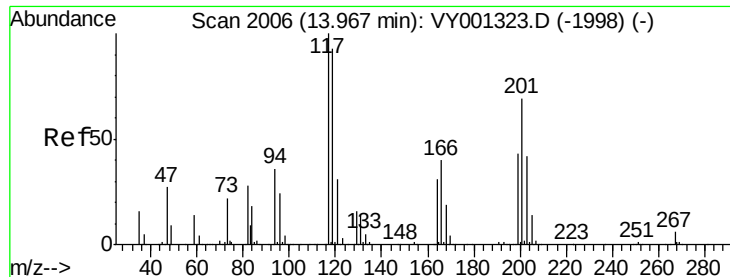
#89
 n-Butylbenzene
 Concen: 1.54 ug/l
 RT: 13.70 min Scan# 1962
 Delta R.T. -0.01 min
 Lab File: VY001404.D
 Acq: 27 Jan 2020 14:38

Tgt Ion: 91 Resp: 11617
 Ion Ratio Lower Upper
 91 100
 92 64.3 27.6 82.8
 134 0.0 12.9 38.6#



Abundance Ion 91.00 (90.70 to 91.70): VY0
 Ion 92.00 (91.70 to 92.70): VY0
 Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 3.25 ug/l

RT: 13.97 min Scan# 2007

Delta R.T. 0.01 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

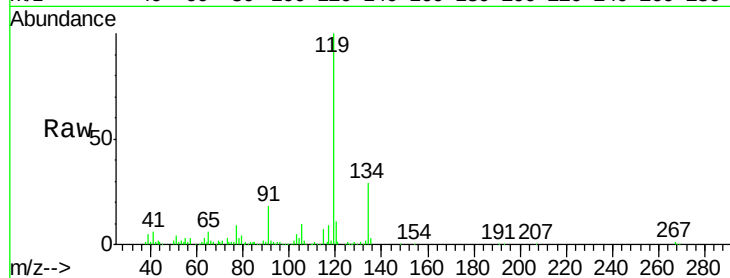
JC-03-012320-A

Tgt Ion: 117 Resp: 4624

Ion Ratio Lower Upper

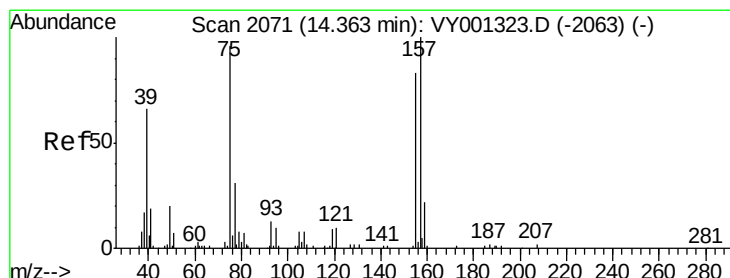
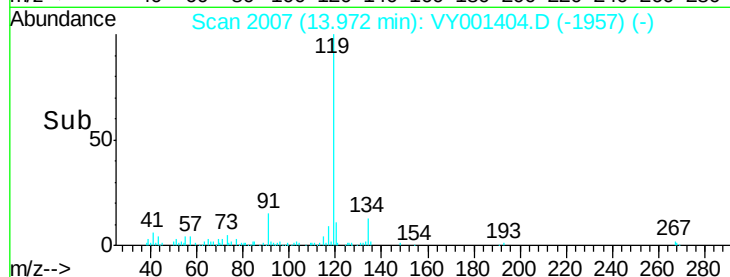
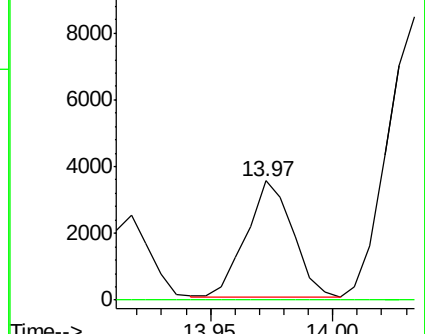
117 100

201 0.0 34.6 103.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.01 ug/l

RT: 14.39 min Scan# 2075

Delta R.T. 0.02 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

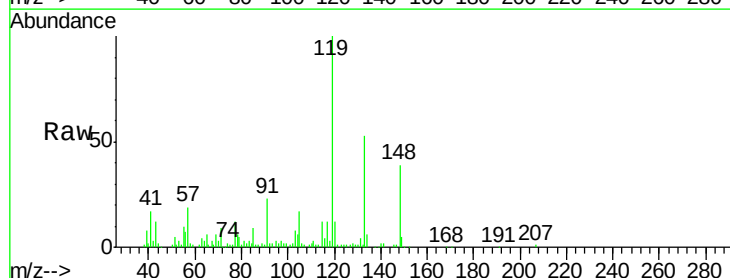
Tgt Ion: 75 Resp: 319

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.2#

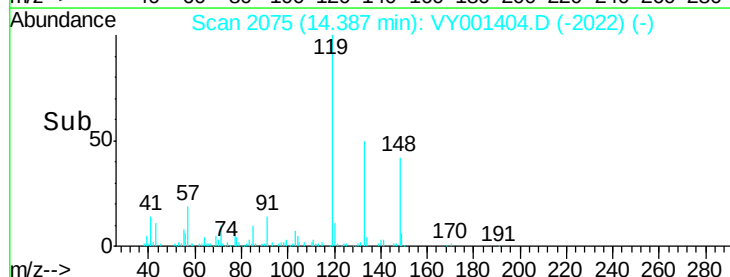
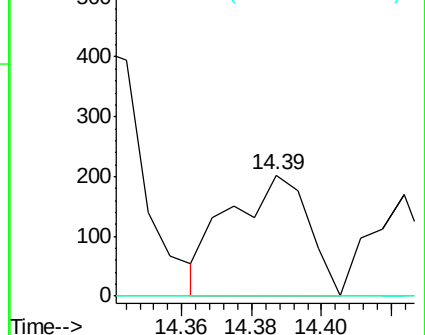
157 0.0 53.3 160.0#

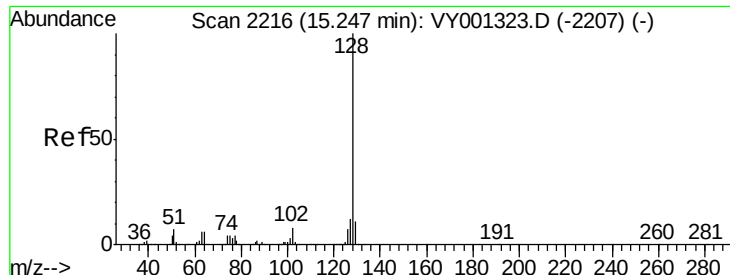


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 4.90 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VY001404.D

Acq: 27 Jan 2020 14:38

Instrument :

MSVOA_Y

ClientSampleId :

JC-03-012320-A

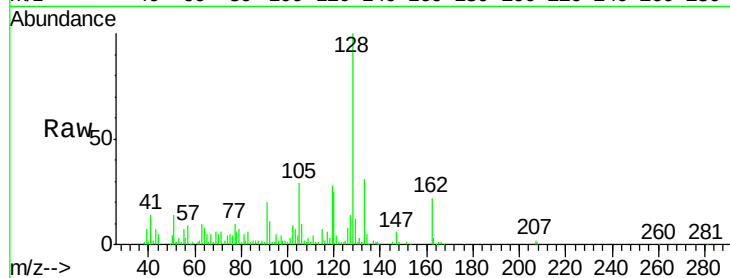
Tgt Ion:128 Resp: 25234

Ion Ratio Lower Upper

128 100

127 16.4 10.2 15.2#

129 15.4 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

