

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY011720\
 Data File : VY001274.D
 Acq On : 17 Jan 2020 18:40
 Operator : SY/MD
 Sample : L1017-04
 Misc : 8.92G/5ML/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-05-011520

Quant Time: Jan 18 03:26:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y011020S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 10 16:01:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.83	168	245259	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.72	114	452091	50.00	ug/l	0.03
63) Chlorobenzene-d5	11.50	117	385846	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	13.43	152	159299	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.18	65	136262	52.60	ug/l	0.03
Spiked Amount	50.000		Recovery	=	105.20%	
35) Dibromofluoromethane	7.76	113	134662	50.87	ug/l	0.04
Spiked Amount	50.000		Recovery	=	101.74%	
50) Toluene-d8	10.20	98	524517	51.43	ug/l	0.02
Spiked Amount	50.000		Recovery	=	102.86%	
62) 4-Bromofluorobenzene	12.49	95	191889	46.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.04%	

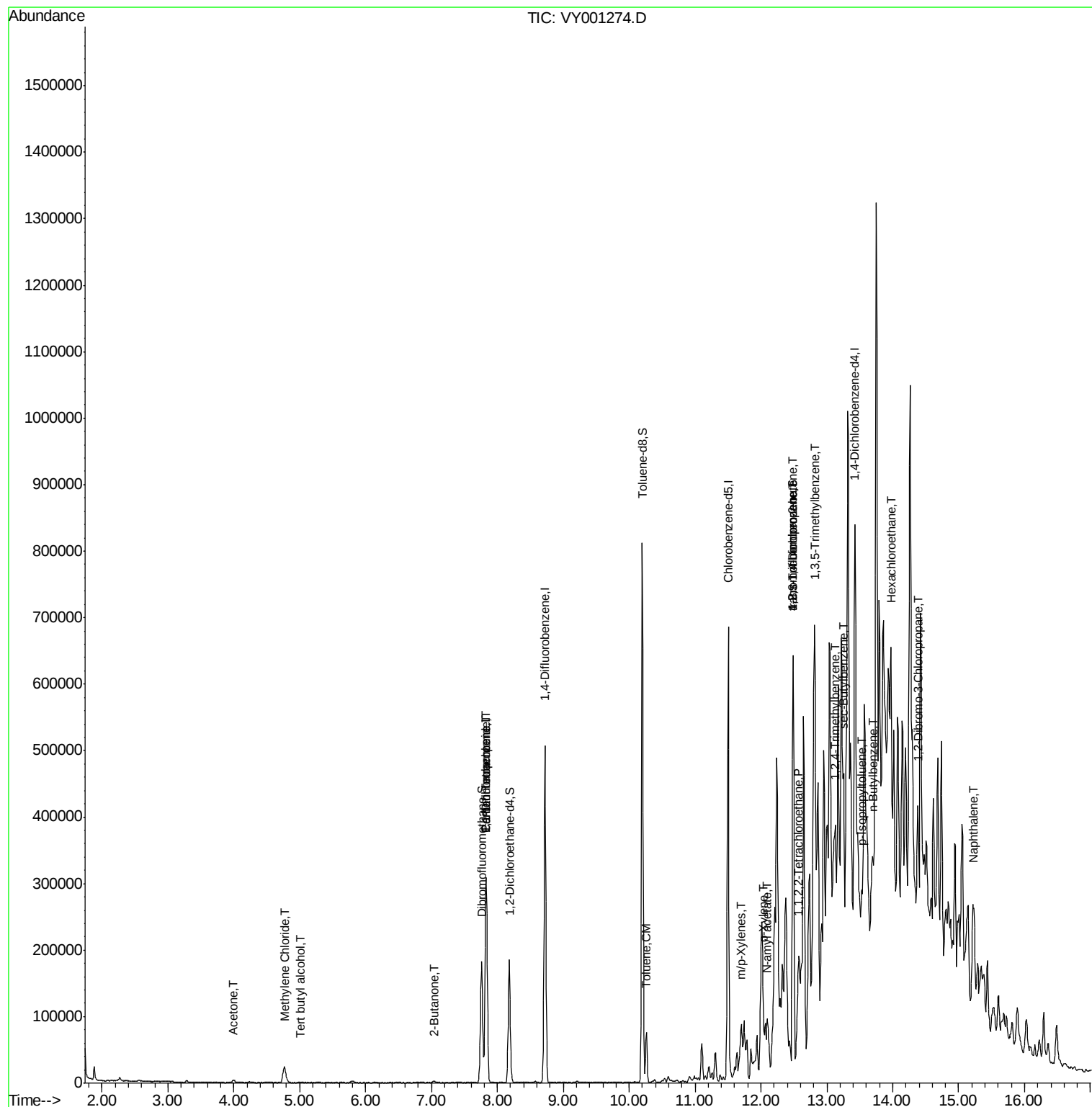
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.00	59	631	2.42	ug/l	# 73
16) Acetone	4.00	43	7548	12.55	ug/l	97
20) Methylene Chloride	4.77	84	19631	1.66	ug/l	97
25) 2-Butanone	7.04	43	2202	2.35	ug/l	# 89
36) 1,1-Dichloropropene	7.83	75	18895	4.59	ug/l	# 49
38) Carbon Tetrachloride	7.83	117	24332	6.44	ug/l	# 16
52) Toluene	10.27	92	33195	4.33	ug/l	99
68) m/p-Xylenes	11.71	106	18347	3.45	ug/l	99
69) o-Xylene	12.03	106	8066	1.58	ug/l	96
74) N-amyl acetate	12.10	43	16076	4.30	ug/l	# 21
75) 1,1,2,2-Tetrachloroethane	12.56	83	11521	4.57	ug/l	# 62
76) 1,2,3-Trichloropropane	12.49	75	85694	50.25	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.82	105	13318	1.33	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.49	75	85694	85.22	ug/l	# 9
84) 1,2,4-Trimethylbenzene	13.13	105	51232	5.16	ug/l	97
85) sec-Butylbenzene	13.25	105	15317	1.27	ug/l	# 78
86) p-Isopropyltoluene	13.53	119	16677	1.59	ug/l	96
89) n-Butylbenzene	13.70	91	14932	1.41	ug/l	# 78
90) Hexachloroethane	13.97	117	7098	3.46	ug/l	# 14
92) 1,2-Dibromo-3-Chloropropan	14.39	75	541	1.19	ug/l	# 7
95) Naphthalene	15.23	128	111193	15.59	ug/l	98

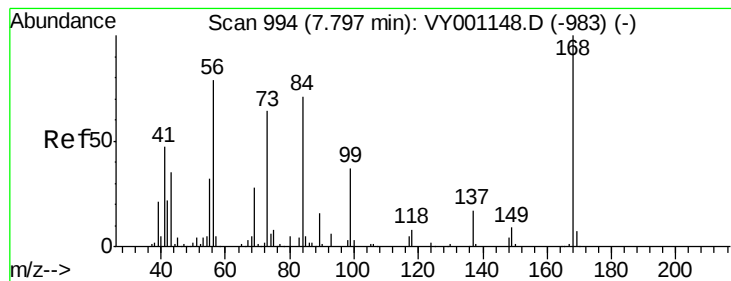
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_Y\DATA\VY011720\
Data File : VY001274.D
Acq On : 17 Jan 2020 18:40
Operator : SY/MD
Sample : L1017-04
Misc : 8.92G/5ML/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TR-05-011520

Quant Time: Jan 18 03:26:16 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\82Y011020S.M
Quant Title : SW846 8260
QLast Update : Fri Jan 10 16:01:58 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.83 min Scan# 999

Delta R.T. 0.03 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

Instrument :

MSVOA_Y

ClientSampleId :

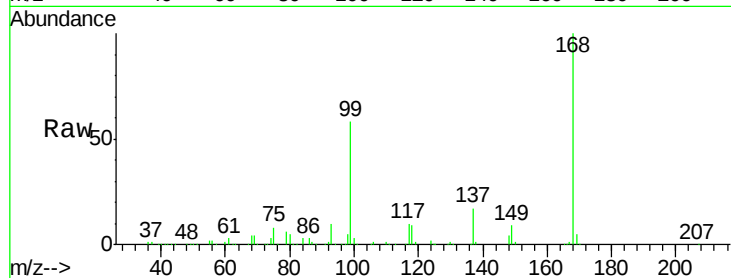
TR-05-011520

Tgt Ion: 168 Resp: 245259

Ion Ratio Lower Upper

168 100

99 58.5 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VY001148.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY001148.D (-983) (-)

7.83

100000

80000

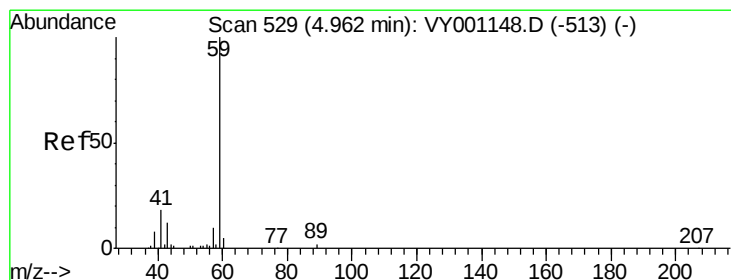
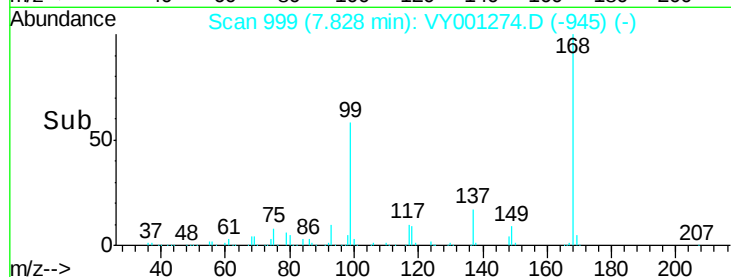
60000

40000

20000

0

Time--> 7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 2.42 ug/l

RT: 5.00 min Scan# 535

Delta R.T. 0.04 min

Lab File: VY001274.D

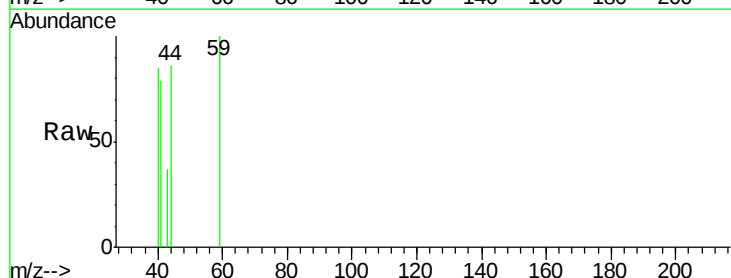
Acq: 17 Jan 2020 18:40

Tgt Ion: 59 Resp: 631

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VY001148.D (-513) (-)

Ion 57.00 (56.70 to 57.70): VY001148.D (-513) (-)

5.00

250

200

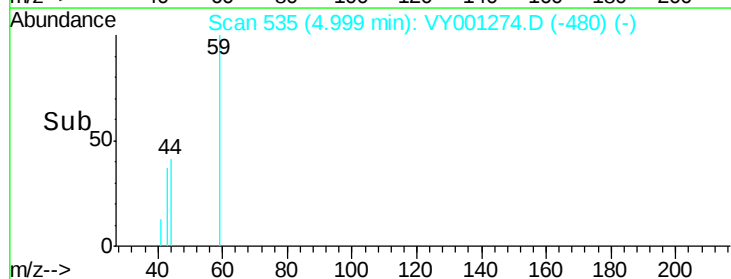
150

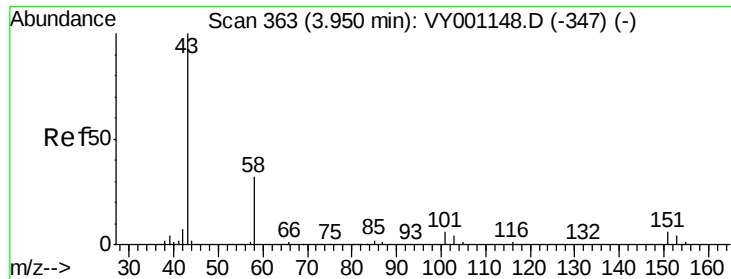
100

50

0

Time--> 4.95 5.00 5.05 5.10





#16

Acetone

Concen: 12.55 ug/l

RT: 4.00 min Scan# 371

Delta R.T. 0.05 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

Instrument :

MSVOA_Y

ClientSampleId :

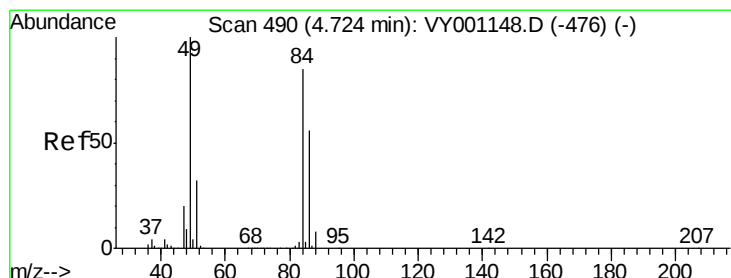
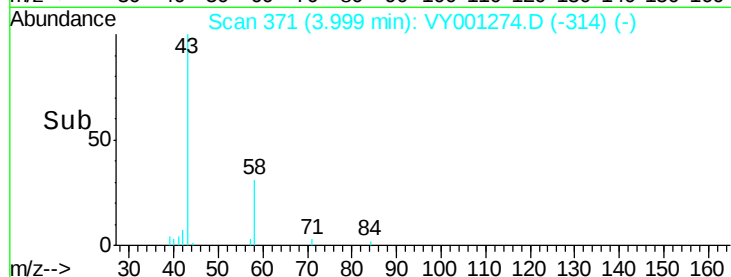
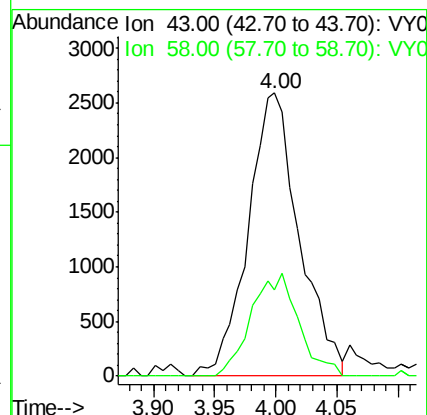
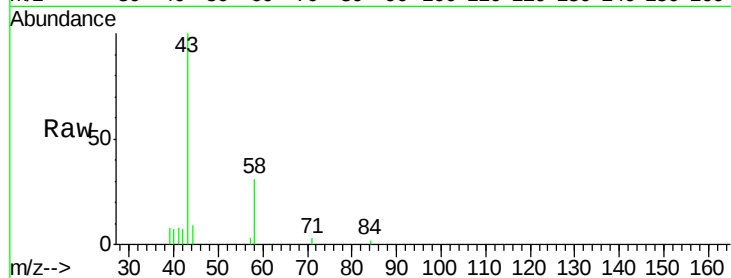
TR-05-011520

Tgt Ion: 43 Resp: 7548

Ion Ratio Lower Upper

43 100

58 30.6 25.8 38.6



#20

Methylene Chloride

Concen: 1.66 ug/l

RT: 4.77 min Scan# 497

Delta R.T. 0.04 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

Tgt Ion: 84 Resp: 19631

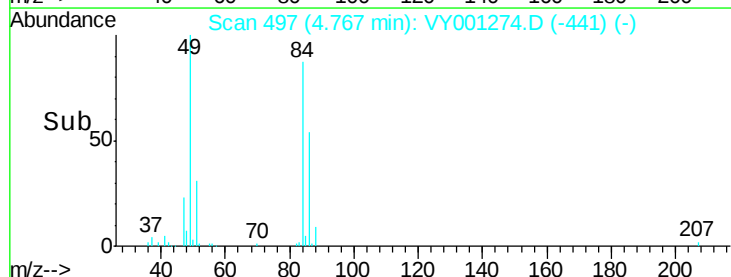
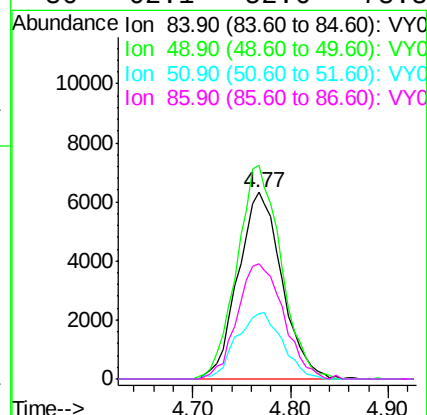
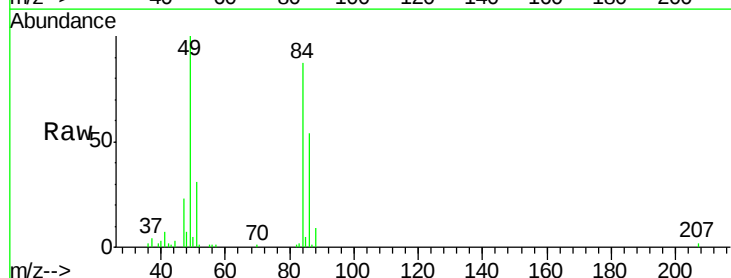
Ion Ratio Lower Upper

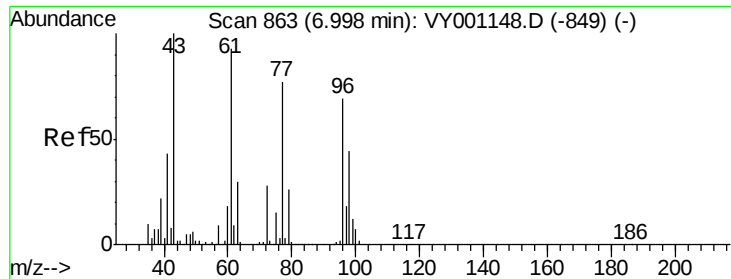
84 100

49 114.5 93.8 140.6

51 34.9 29.9 44.9

86 62.1 52.6 78.8





#25

2-Butanone

Concen: 2.35 ug/l

RT: 7.04 min Scan# 870

Delta R.T. 0.04 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

Instrument :

MSVOA_Y

ClientSampleId :

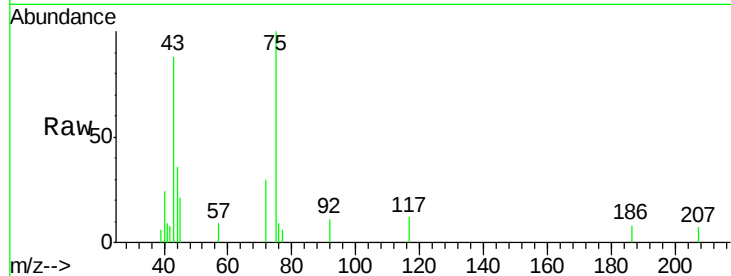
TR-05-011520

Tgt Ion: 43 Resp: 2202

Ion Ratio Lower Upper

43 100

72 33.7 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

7.04

800

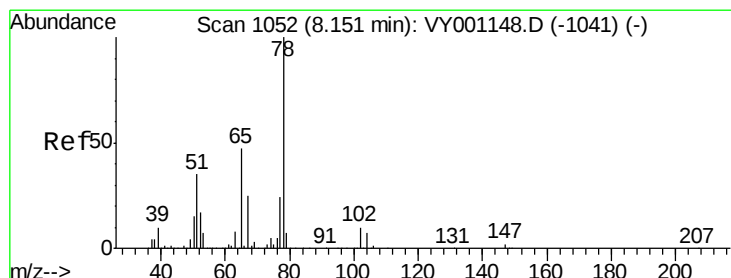
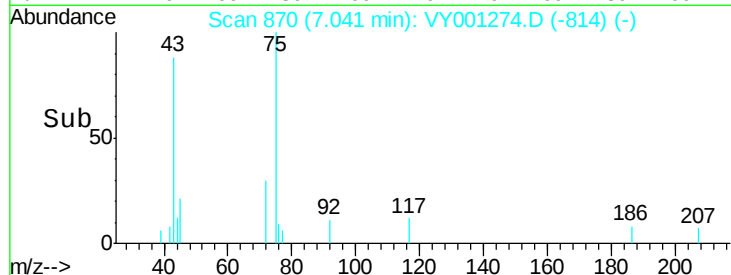
600

400

200

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 52.60 ug/l

RT: 8.18 min Scan# 1057

Delta R.T. 0.03 min

Lab File: VY001274.D

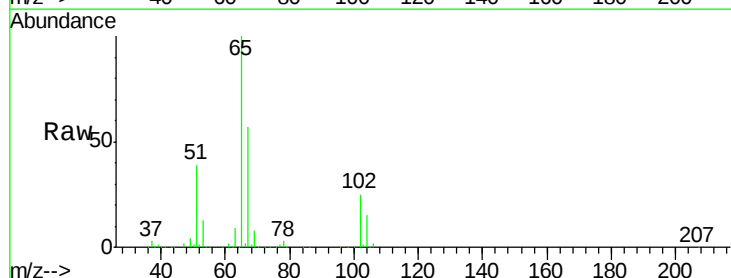
Acq: 17 Jan 2020 18:40

Tgt Ion: 65 Resp: 136262

Ion Ratio Lower Upper

65 100

67 56.1 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0

8.18

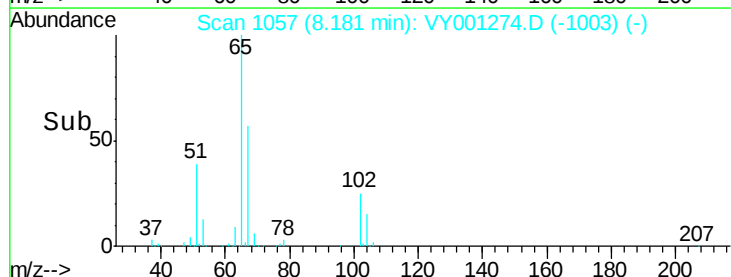
60000

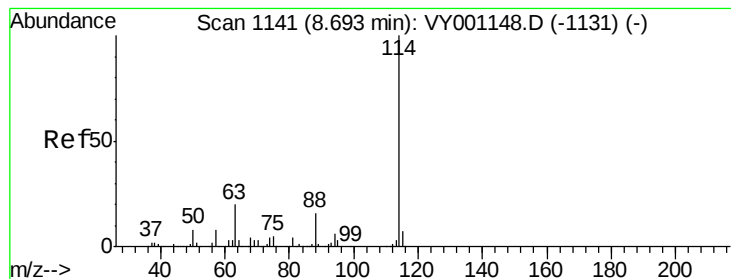
40000

20000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.72 min Scan# 1146

Delta R.T. 0.03 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

Instrument :

MSVOA_Y

ClientSampleId :

TR-05-011520

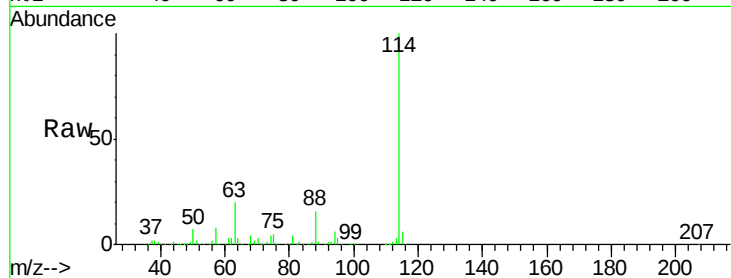
Tgt Ion:114 Resp: 452091

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.8

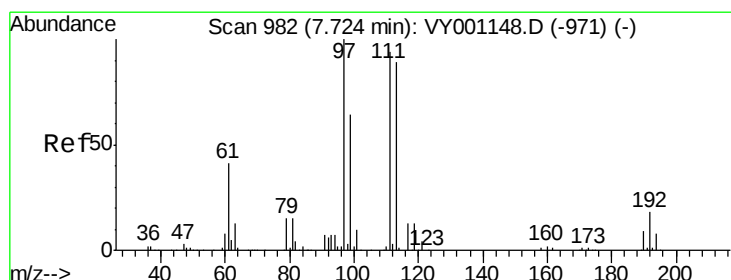
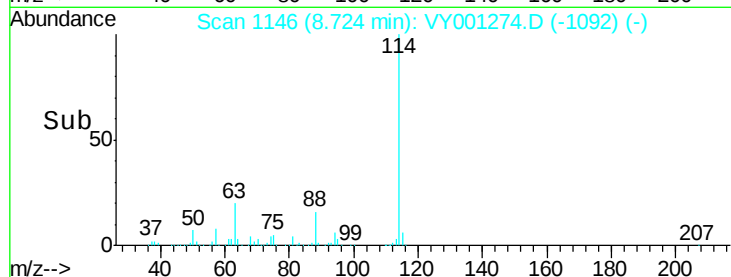
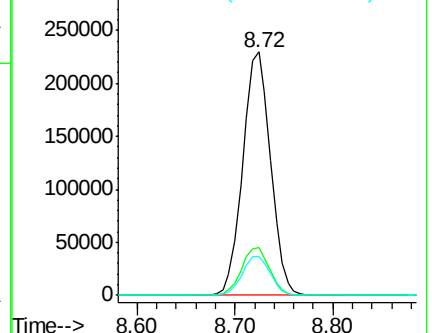
88 15.9 0.0 32.4



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: 50.87 ug/l

RT: 7.76 min Scan# 988

Delta R.T. 0.04 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

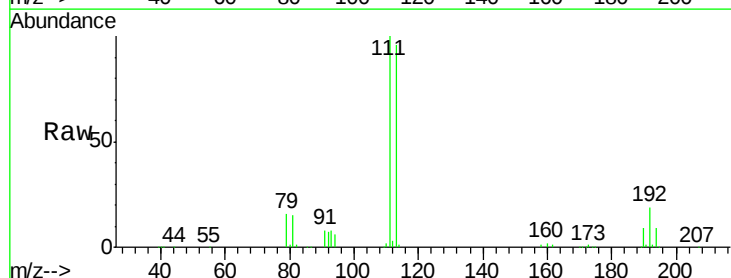
Tgt Ion:113 Resp: 134662

Ion Ratio Lower Upper

113 100

111 103.3 82.9 124.3

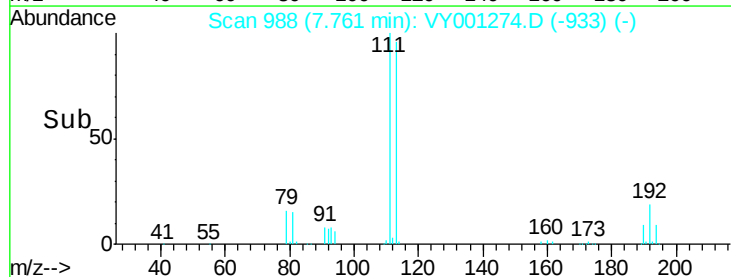
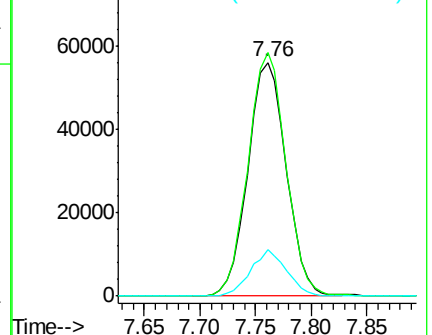
192 18.6 15.4 23.2

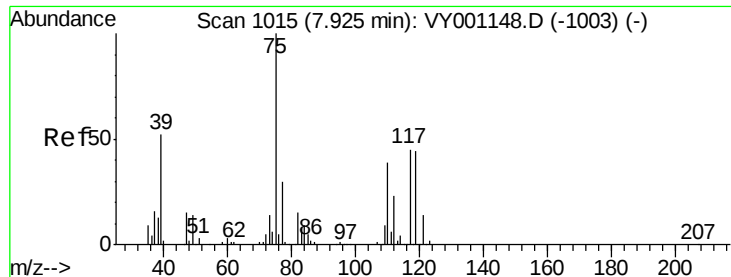


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

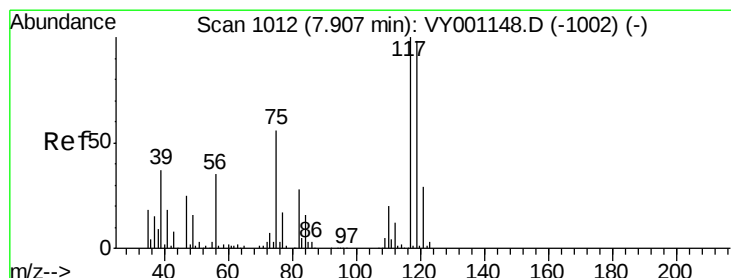
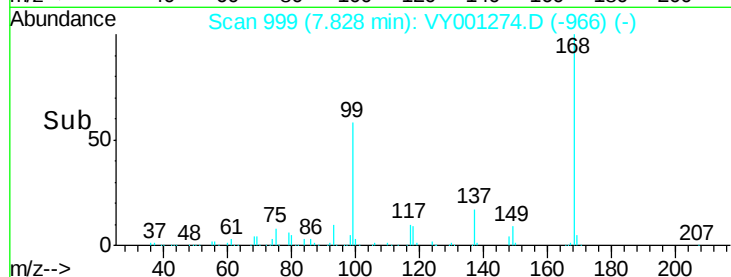
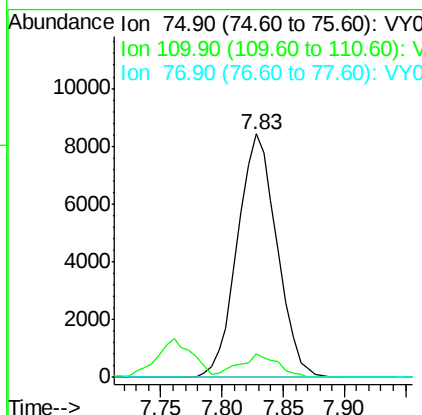
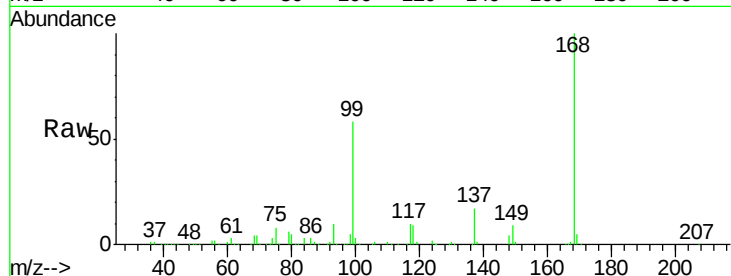




#36
 1,1-Dichloropropene
 Concen: 4.59 ug/l
 RT: 7.83 min Scan# 999
 Delta R.T. -0.10 min
 Lab File: VY001274.D
 Acq: 17 Jan 2020 18:40

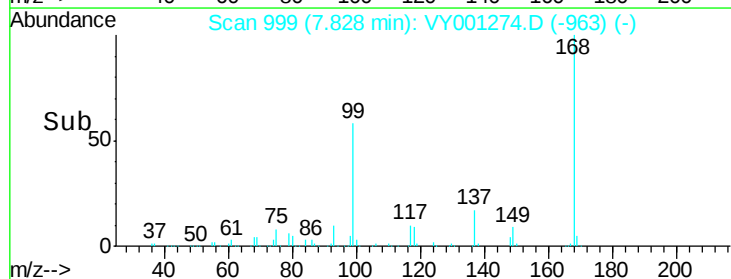
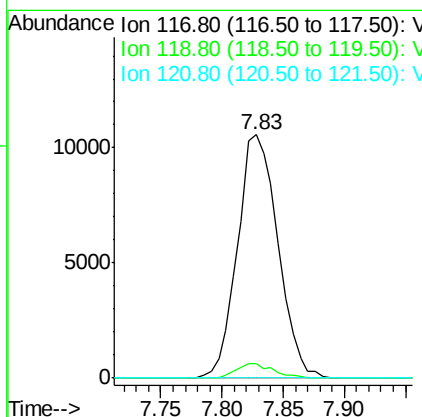
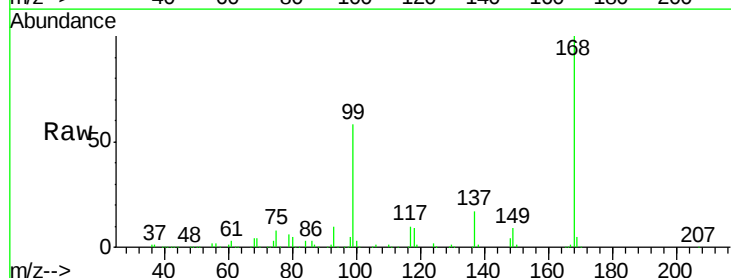
Instrument :
 MSVOA_Y
 ClientSampled :
 TR-05-011520

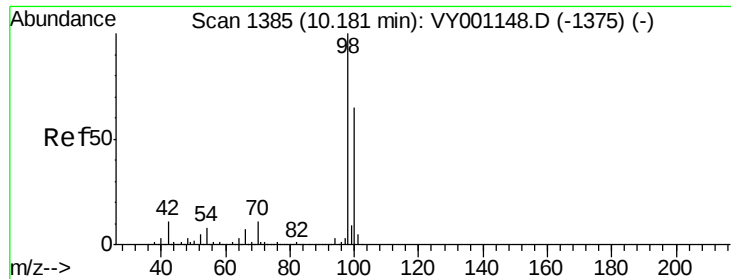
Tgt Ion: 75 Resp: 18895
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.3 54.8#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.44 ug/l
 RT: 7.83 min Scan# 999
 Delta R.T. -0.08 min
 Lab File: VY001274.D
 Acq: 17 Jan 2020 18:40

Tgt Ion: 117 Resp: 24332
 Ion Ratio Lower Upper
 117 100
 119 5.8 78.3 117.5#
 121 0.0 23.5 35.3#





#50

Toluene-d8

Concen: 51.43 ug/l

RT: 10.20 min Scan# 1388

Delta R.T. 0.02 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

Instrument :

MSVOA_Y

ClientSampleId :

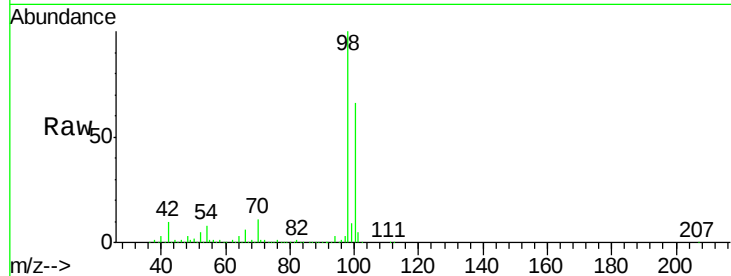
TR-05-011520

Tgt Ion: 98 Resp: 524517

Ion Ratio Lower Upper

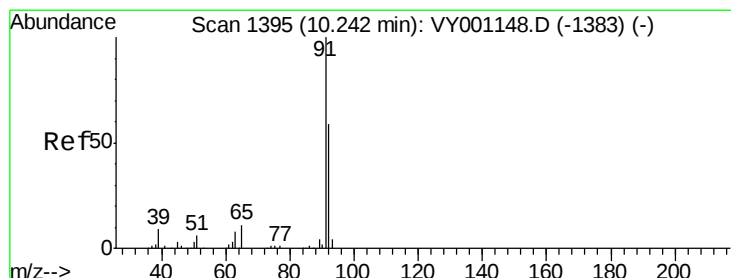
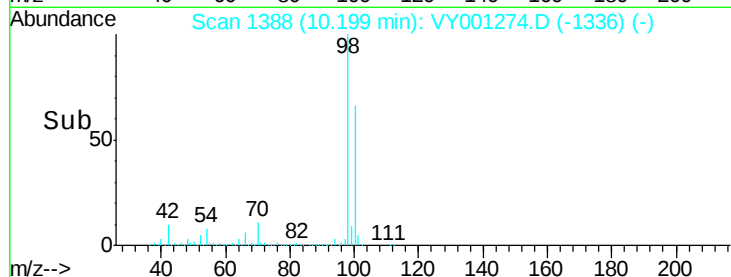
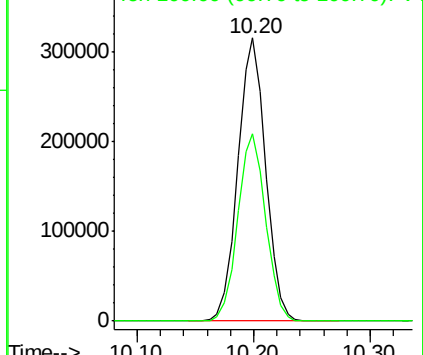
98 100

100 66.4 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0



#52

Toluene

Concen: 4.33 ug/l

RT: 10.27 min Scan# 1399

Delta R.T. 0.02 min

Lab File: VY001274.D

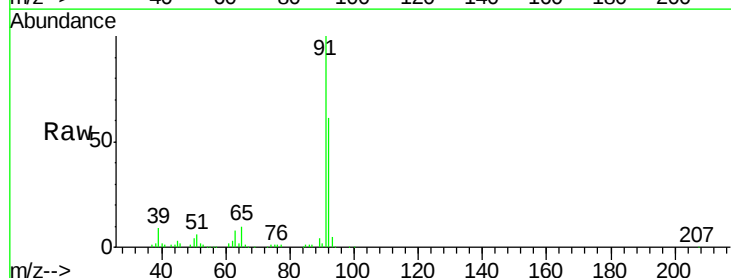
Acq: 17 Jan 2020 18:40

Tgt Ion: 92 Resp: 33195

Ion Ratio Lower Upper

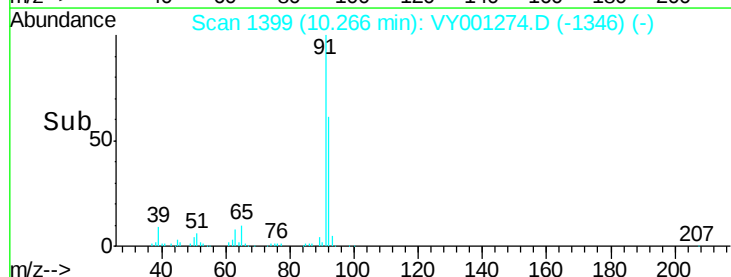
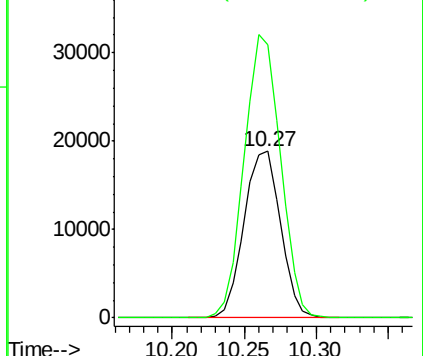
92 100

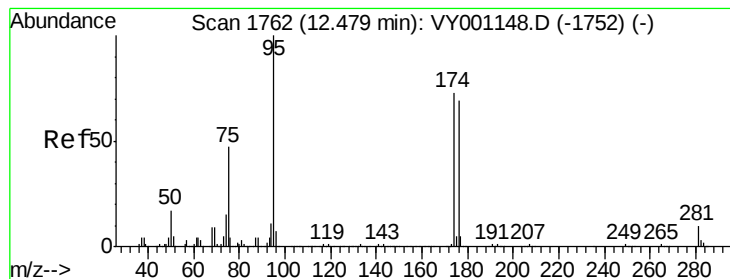
91 168.7 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VY0

Ion 91.00 (90.70 to 91.70): VY0





#62

4-Bromofluorobenzene

Concen: 46.02 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.01 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

Instrument :

MSVOA_Y

ClientSampleId :

TR-05-011520

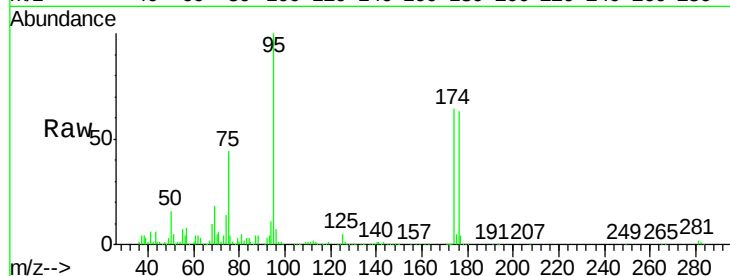
Tgt Ion: 95 Resp: 191889

Ion Ratio Lower Upper

95 100

174 66.5 0.0 143.2

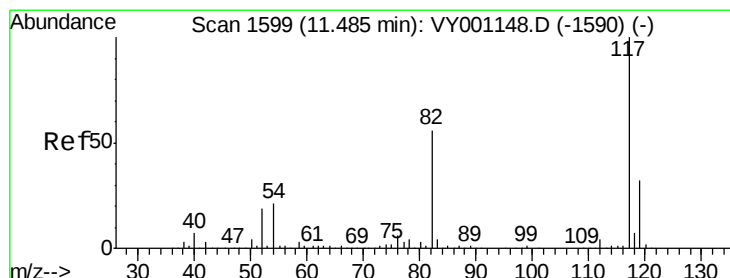
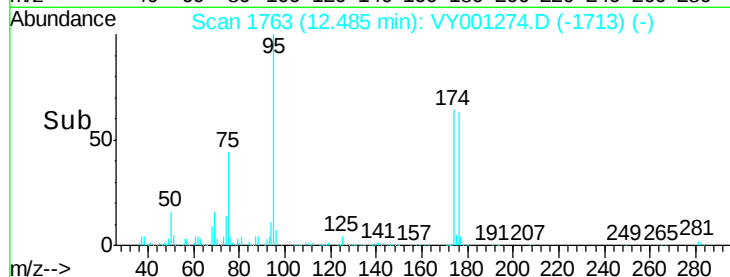
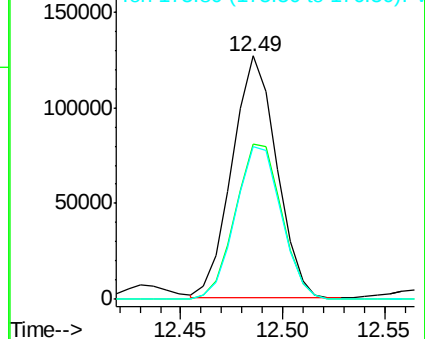
176 64.9 0.0 136.0



Abundance Ion 94.90 (94.60 to 95.60): VY001148.D (-1752) (-)

Ion 173.80 (173.50 to 174.50): VY001148.D (-1752) (-)

Ion 175.80 (175.50 to 176.50): VY001148.D (-1752) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.50 min Scan# 1602

Delta R.T. 0.02 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

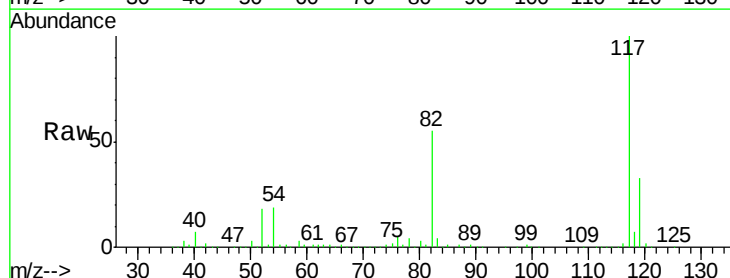
Tgt Ion: 117 Resp: 385846

Ion Ratio Lower Upper

117 100

82 54.6 44.9 67.3

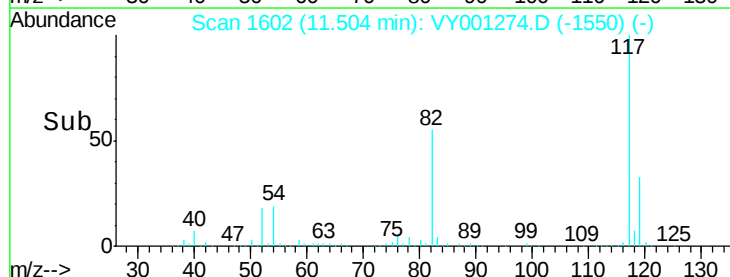
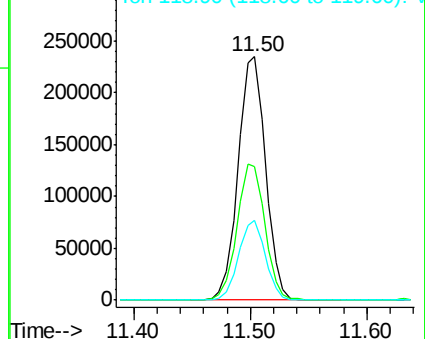
119 32.7 25.7 38.5

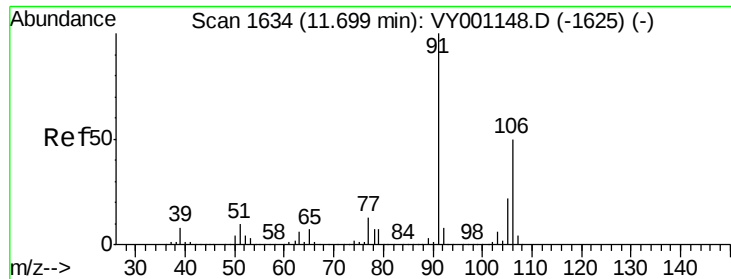


Abundance Ion 116.90 (116.60 to 117.60): VY001148.D (-1590) (-)

Ion 82.00 (81.70 to 82.70): VY001148.D (-1590) (-)

Ion 118.90 (118.60 to 119.60): VY001148.D (-1590) (-)

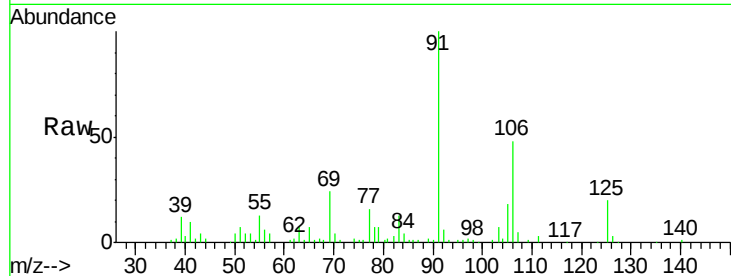




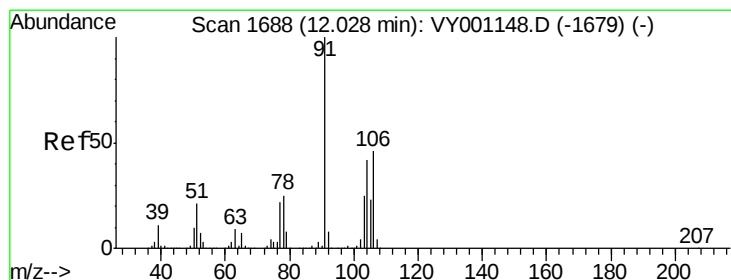
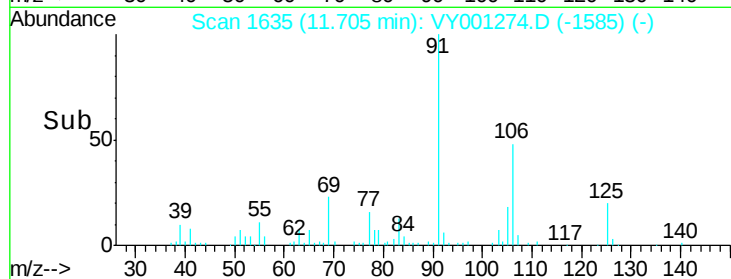
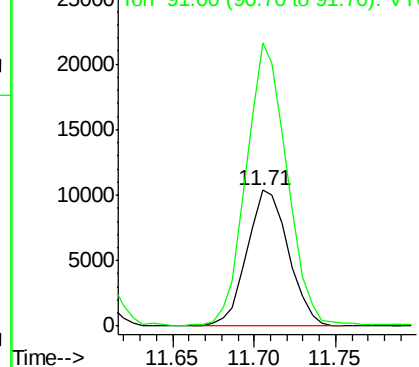
#68
m/p-Xylenes
Concen: 3.45 ug/l
RT: 11.71 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VY001274.D
Acq: 17 Jan 2020 18:40

Instrument :
MSVOA_Y
ClientSampleId :
TR-05-011520

Tgt Ion:106 Resp: 18347
Ion Ratio Lower Upper
106 100
91 203.5 161.4 242.2

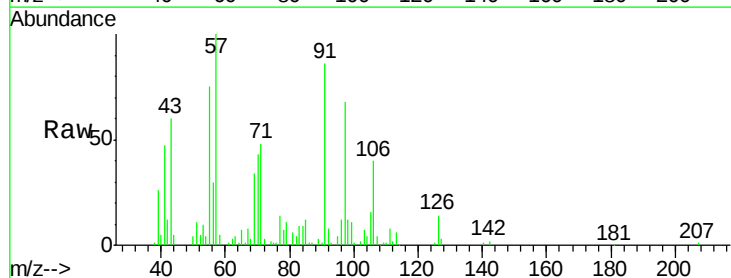


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0

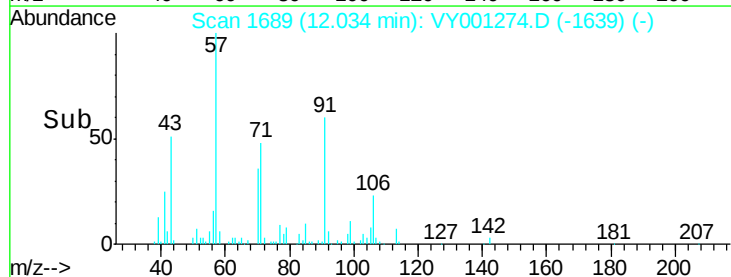
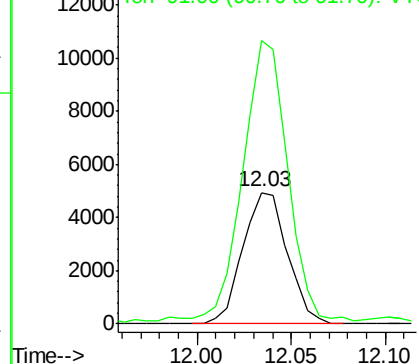


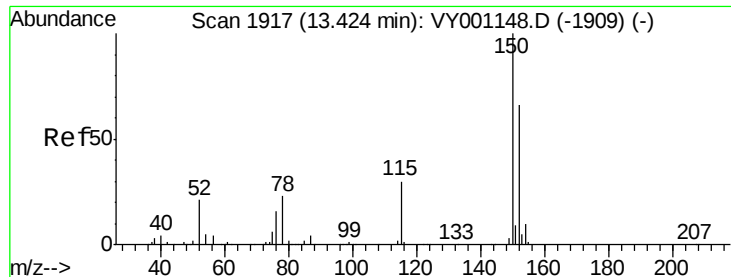
#69
o-Xylene
Concen: 1.58 ug/l
RT: 12.03 min Scan# 1689
Delta R.T. 0.01 min
Lab File: VY001274.D
Acq: 17 Jan 2020 18:40

Tgt Ion:106 Resp: 8066
Ion Ratio Lower Upper
106 100
91 219.2 106.3 318.8



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. 0.01 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

Instrument :

MSVOA_Y

ClientSampleId :

TR-05-011520

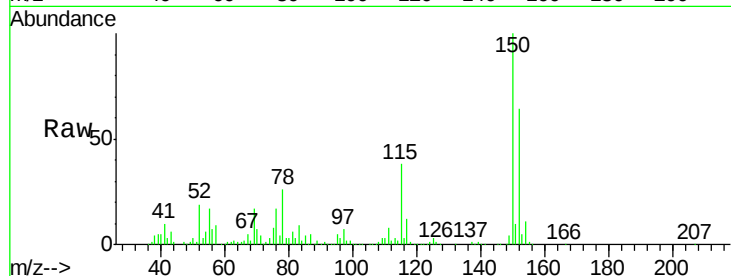
Tgt Ion:152 Resp: 159299

Ion Ratio Lower Upper

152 100

115 60.4 30.9 92.5

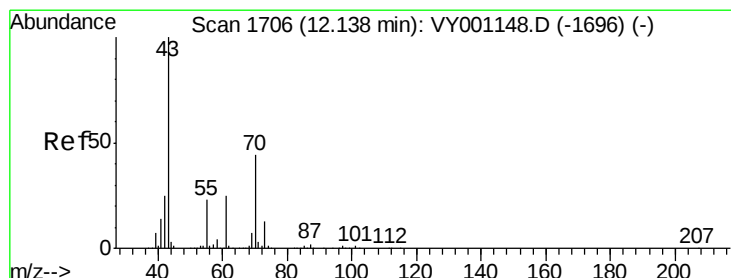
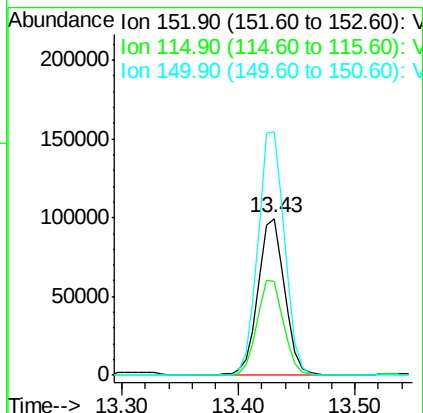
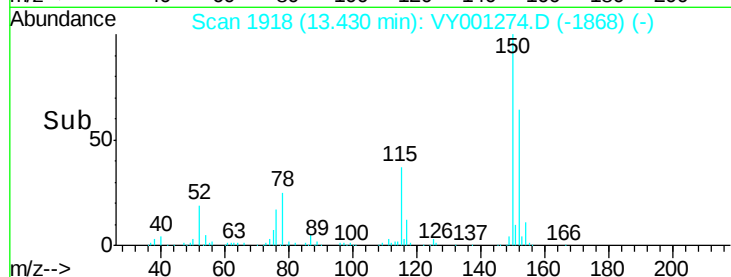
150 155.0 0.0 346.8



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-amil acetate

Concen: 4.30 ug/l

RT: 12.10 min Scan# 1699

Delta R.T. -0.04 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

Tgt Ion: 43 Resp: 16076

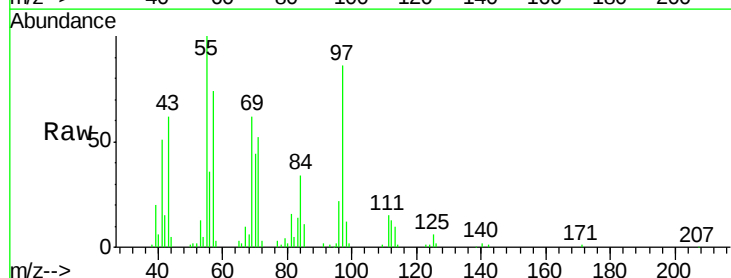
Ion Ratio Lower Upper

43 100

70 50.4 35.0 52.6

55 140.0 18.4 27.6#

61 0.0 20.1 30.1#

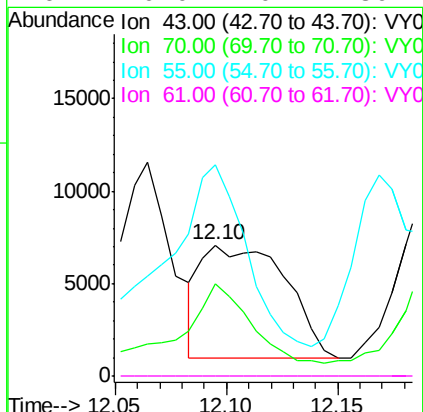
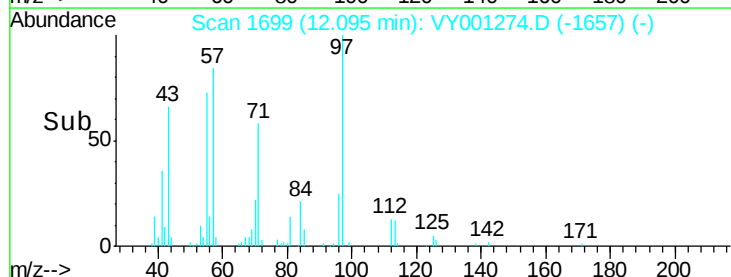


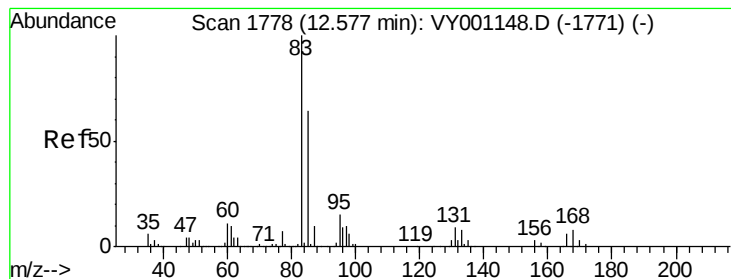
Abundance Ion 43.00 (42.70 to 43.70): VY0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 4.57 ug/l

RT: 12.56 min Scan# 1776

Delta R.T. -0.01 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

Instrument :

MSVOA_Y

ClientSampleId :

TR-05-011520

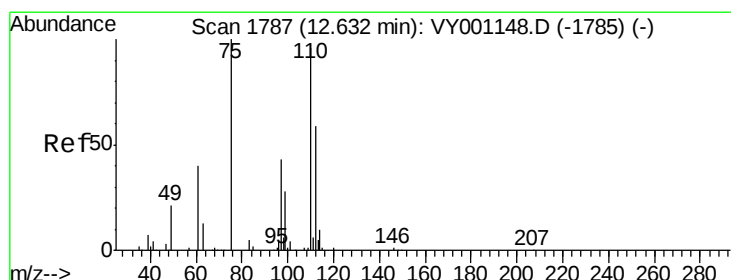
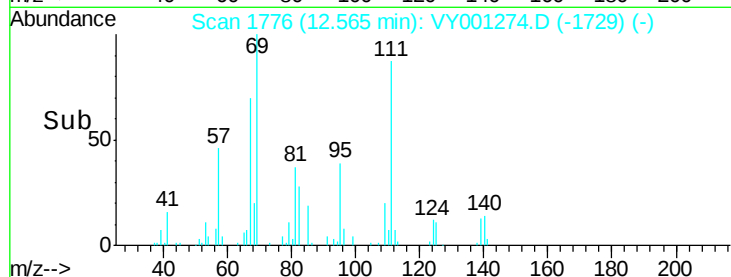
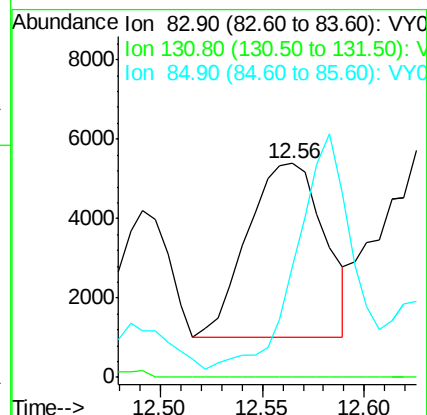
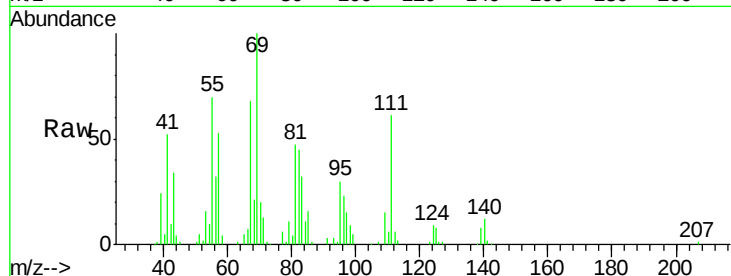
Tgt Ion: 83 Resp: 11521

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

85 95.4 32.2 96.6



#76

1,2,3-Trichloropropane

Concen: 50.25 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.15 min

Lab File: VY001274.D

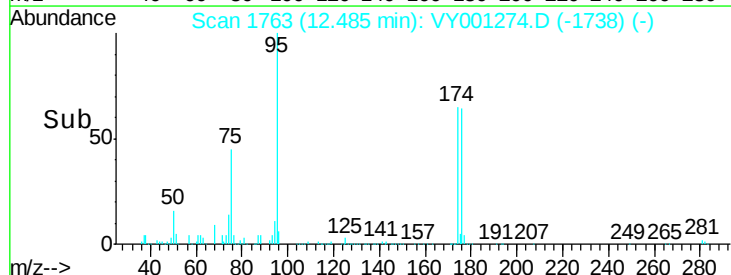
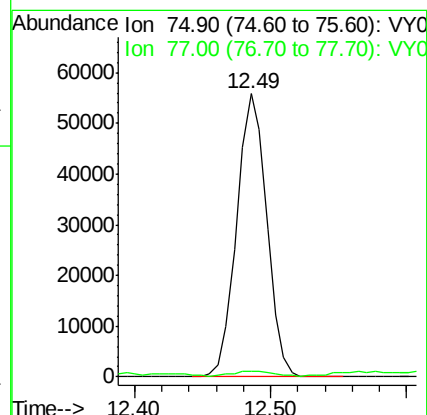
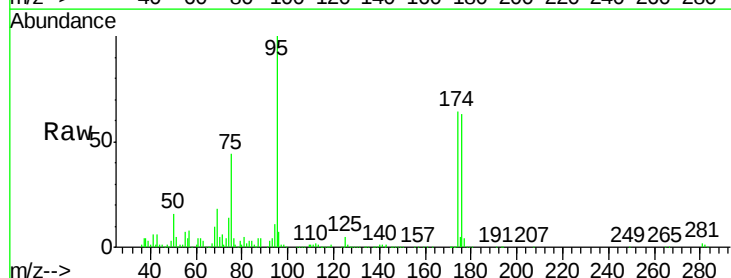
Acq: 17 Jan 2020 18:40

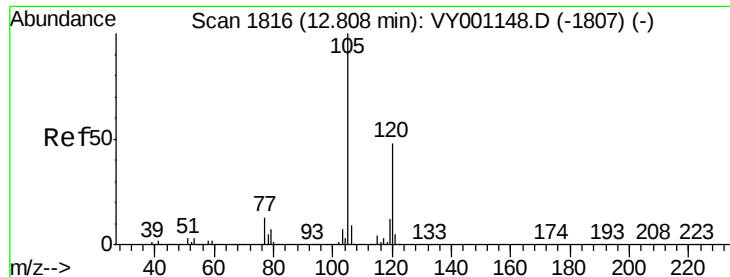
Tgt Ion: 75 Resp: 85694

Ion Ratio Lower Upper

75 100

77 2.4 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 1.33 ug/l

RT: 12.82 min Scan# 1818

Delta R.T. 0.01 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

Instrument :

MSVOA_Y

ClientSampleId :

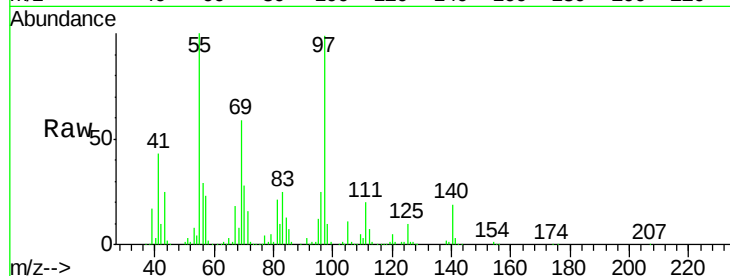
TR-05-011520

Tgt Ion: 105 Resp: 13318

Ion Ratio Lower Upper

105 100

120 51.2 24.2 72.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.82

8000

6000

4000

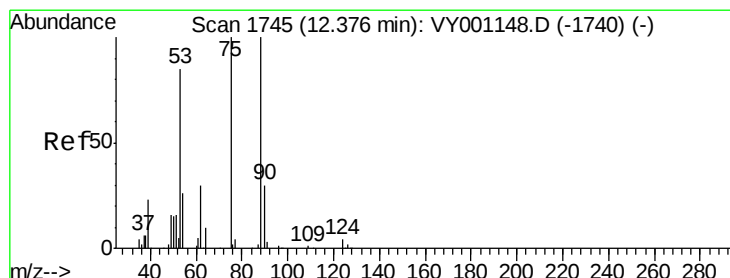
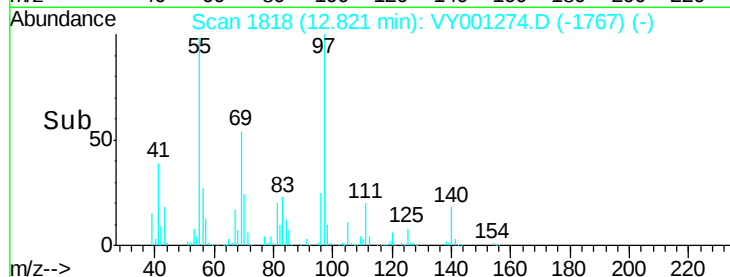
2000

0

12.80

12.85

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 85.22 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.11 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

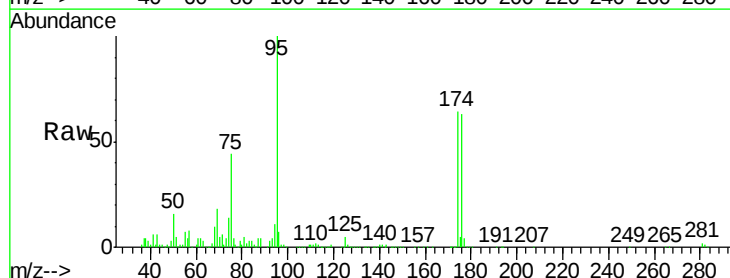
Tgt Ion: 75 Resp: 85694

Ion Ratio Lower Upper

75 100

53 2.8 69.4 104.2#

89 0.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

60000

40000

20000

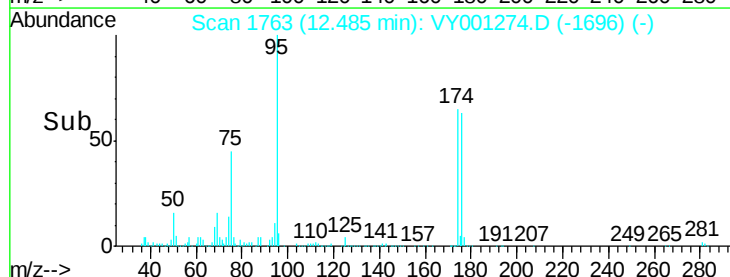
0

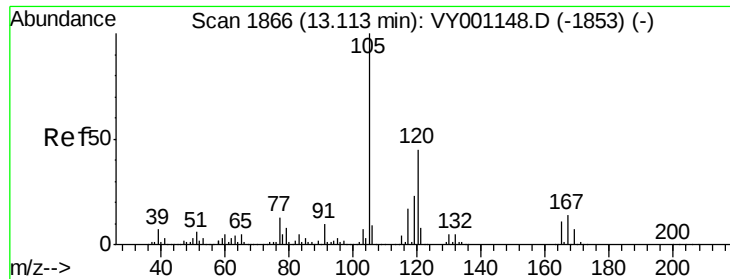
12.49

12.40

12.50

Time-->

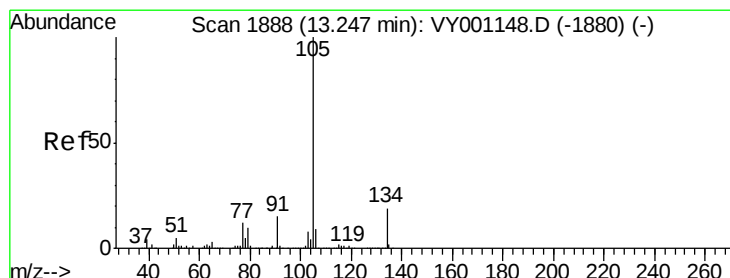
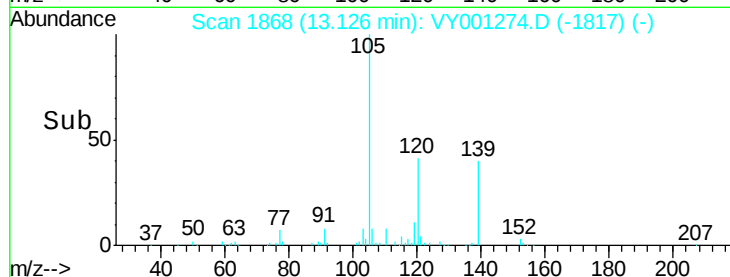
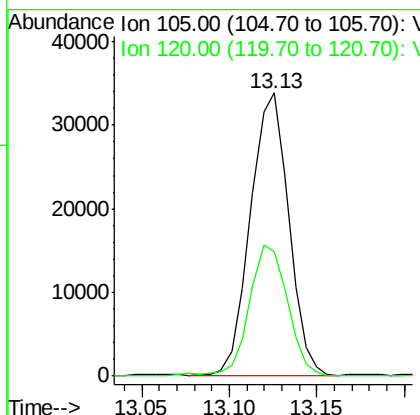
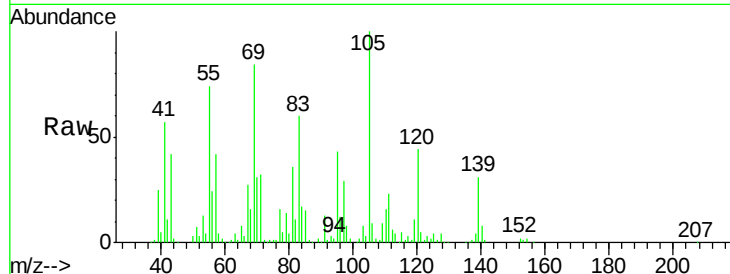




#84
 1,2,4-Trimethylbenzene
 Concen: 5.16 ug/l
 RT: 13.13 min Scan# 1868
 Delta R.T. 0.01 min
 Lab File: VY001274.D
 Acq: 17 Jan 2020 18:40

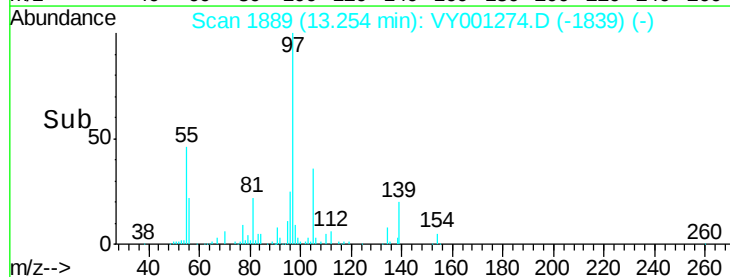
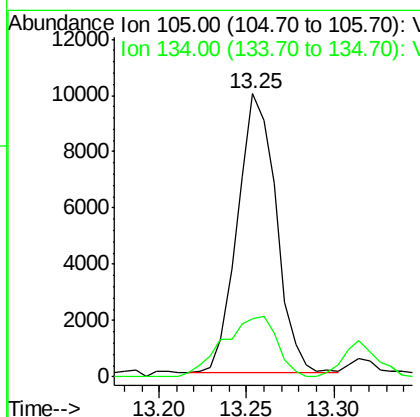
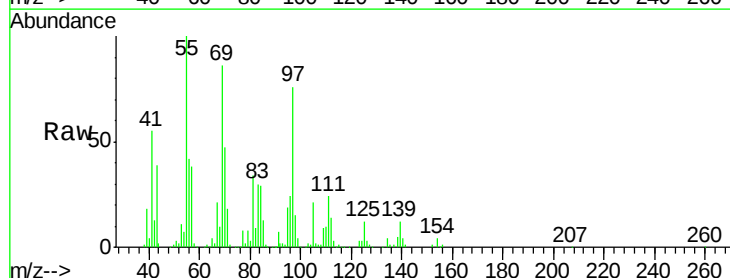
Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-05-011520

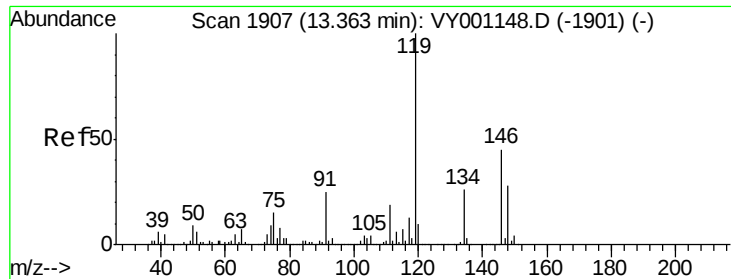
Tgt Ion:105 Resp: 51232
 Ion Ratio Lower Upper
 105 100
 120 47.3 22.8 68.3



#85
 sec-Butylbenzene
 Concen: 1.27 ug/l
 RT: 13.25 min Scan# 1889
 Delta R.T. 0.01 min
 Lab File: VY001274.D
 Acq: 17 Jan 2020 18:40

Tgt Ion:105 Resp: 15317
 Ion Ratio Lower Upper
 105 100
 134 29.8 9.8 29.5#

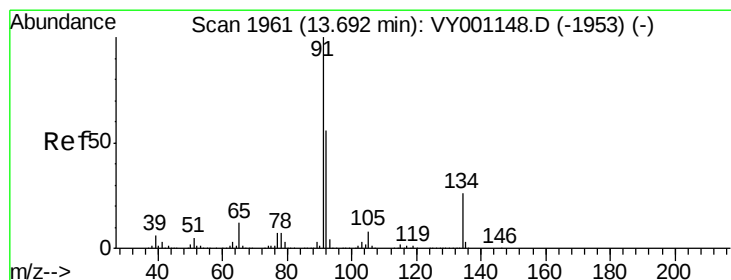
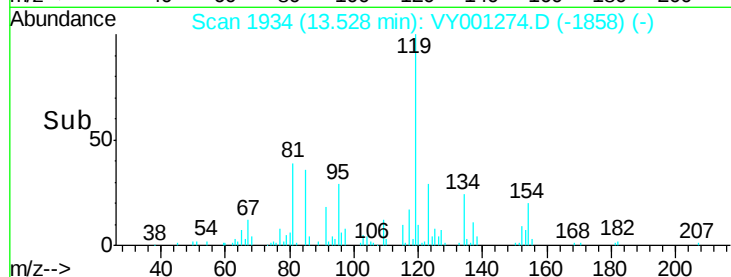
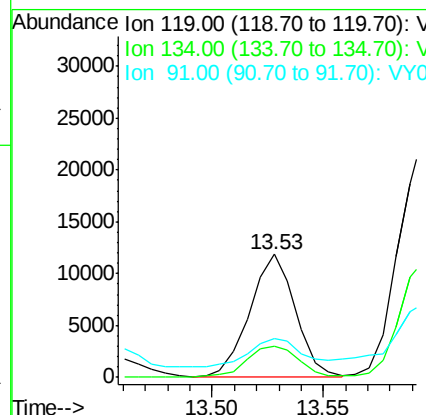
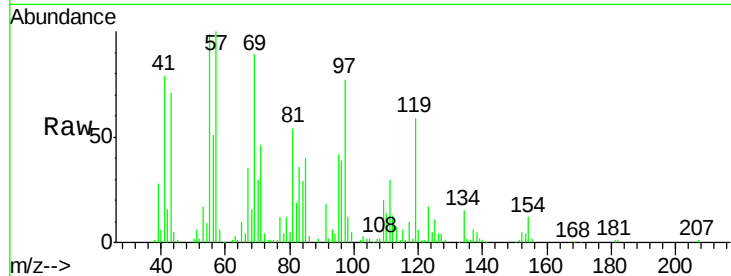




#86
p-Isopropyltoluene
Concen: 1.59 ug/l
RT: 13.53 min Scan# 1934
Delta R.T. 0.16 min
Lab File: VY001274.D
Acq: 17 Jan 2020 18:40

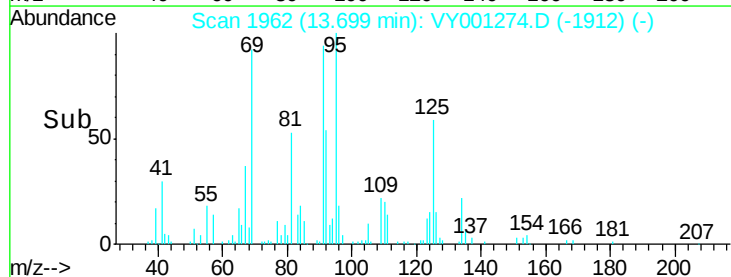
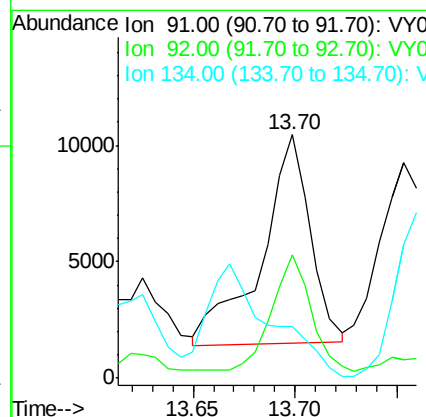
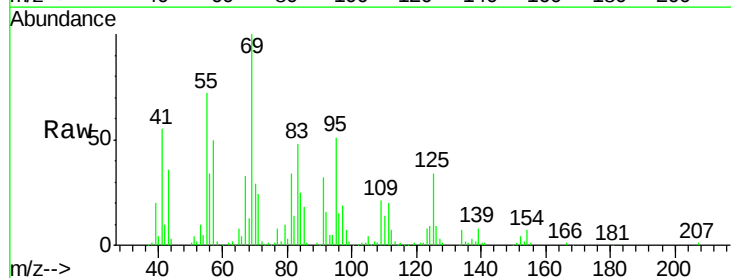
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-011520

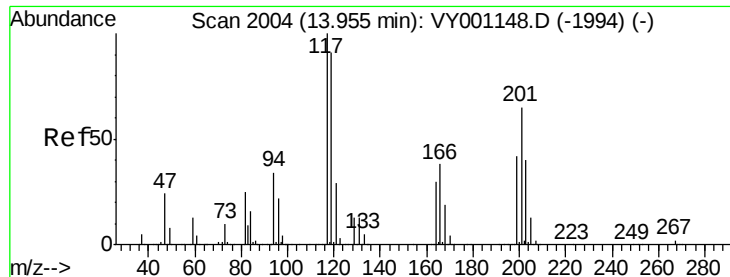
Tgt Ion: 119 Resp: 16677
Ion Ratio Lower Upper
119 100
134 29.4 13.4 40.2
91 26.7 12.4 37.2



#89
n-Butylbenzene
Concen: 1.41 ug/l
RT: 13.70 min Scan# 1962
Delta R.T. 0.01 min
Lab File: VY001274.D
Acq: 17 Jan 2020 18:40

Tgt Ion: 91 Resp: 14932
Ion Ratio Lower Upper
91 100
92 48.9 27.7 83.1
134 0.0 12.9 38.6#





#90

Hexachloroethane

Concen: 3.46 ug/l

RT: 13.97 min Scan# 2007

Delta R.T. 0.02 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

Instrument :

MSVOA_Y

ClientSampleId :

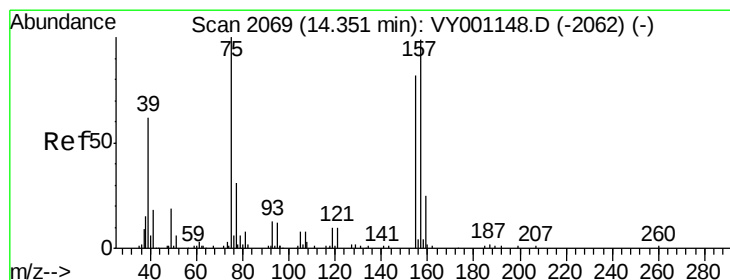
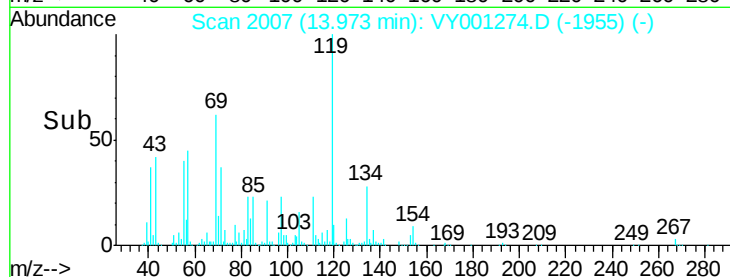
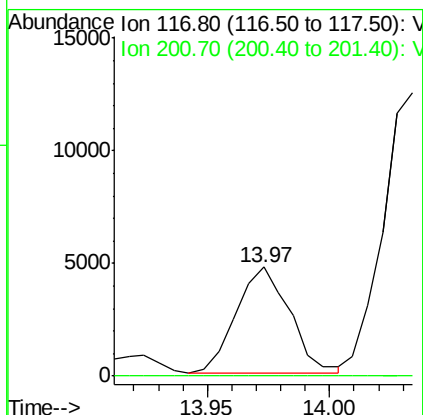
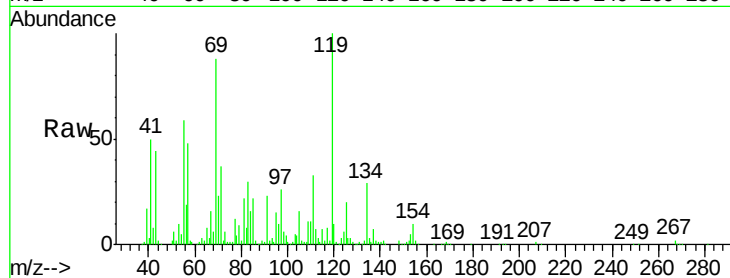
TR-05-011520

Tgt Ion:117 Resp: 7098

Ion Ratio Lower Upper

117 100

201 0.0 35.4 106.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.19 ug/l

RT: 14.39 min Scan# 2075

Delta R.T. 0.04 min

Lab File: VY001274.D

Acq: 17 Jan 2020 18:40

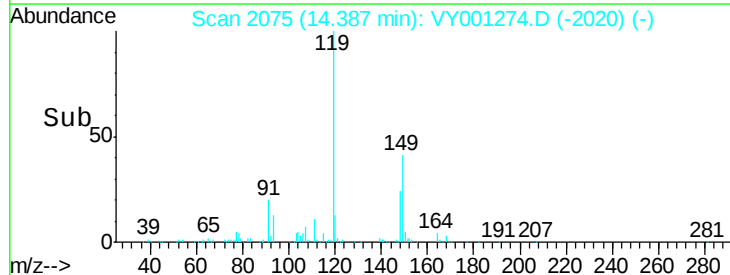
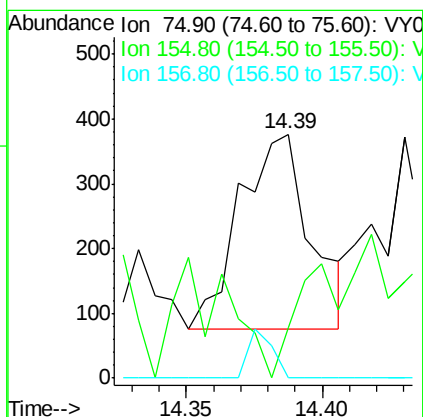
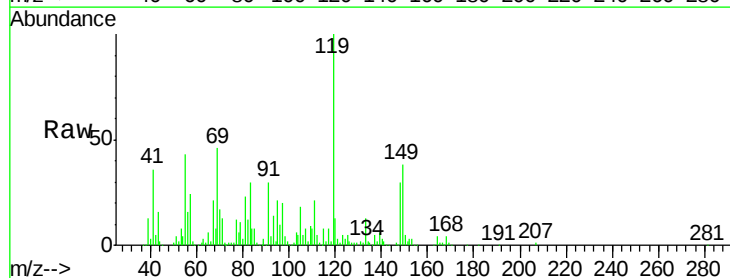
Tgt Ion: 75 Resp: 541

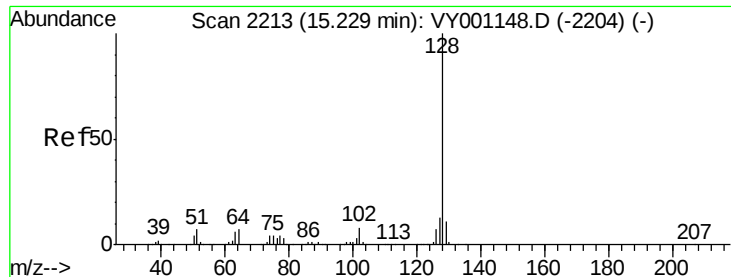
Ion Ratio Lower Upper

75 100

155 0.0 41.2 123.6#

157 8.5 52.8 158.4#





#95
 Naphthalene
 Concen: 15.59 ug/l
 RT: 15.23 min Scan# 2214
 Delta R.T. 0.01 min
 Lab File: VY001274.D
 Acq: 17 Jan 2020 18:40

Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-05-011520

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.2	15.4
129	11.4	8.5	12.7

