

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY103119\
 Data File : VY000506.D
 Acq On : 31 Oct 2019 15:25
 Operator : SY/MD
 Sample : K5615-05
 Misc : 7.45G/5ML/MSVOA Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 01 05:51:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 13:30:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	63429	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	105870	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	87063	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	37592	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.15	65	33482	51.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.02%	
35) Dibromofluoromethane	7.73	113	30256	48.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.36%	
50) Toluene-d8	10.18	98	118171	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	
62) 4-Bromofluorobenzene	12.48	95	34408	38.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.64%	

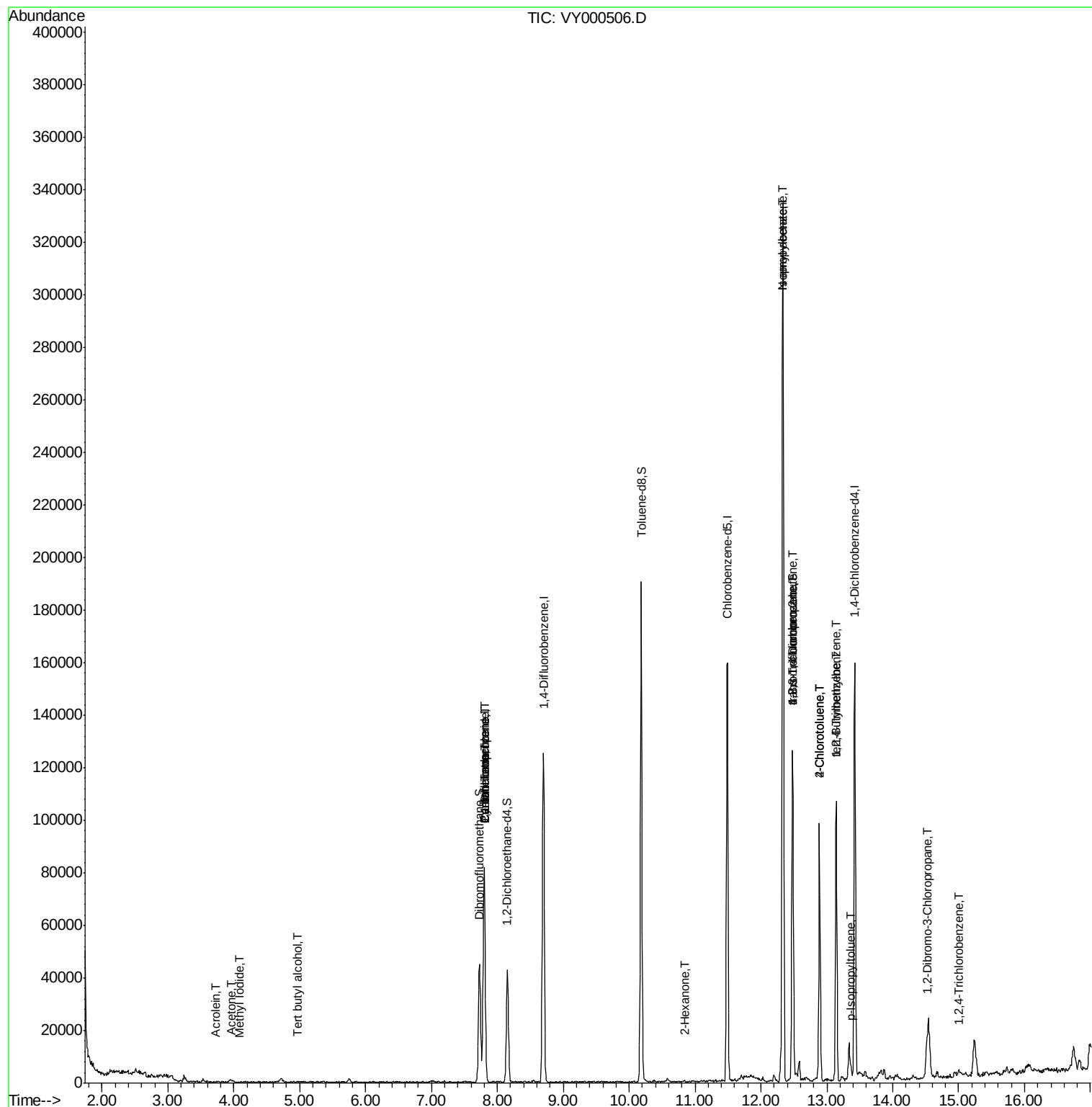
Target Compounds

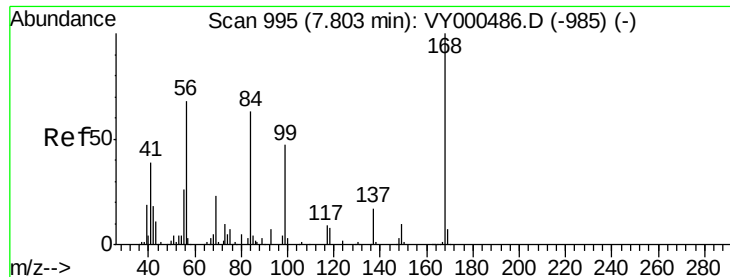
						Qvalue
10) Methyl Iodide	4.09	142	119	3.329	ug/l #	41
11) Tert butyl alcohol	4.97	59	101	1.581	ug/l #	72
13) Acrolein	3.72	56	56	1.006	ug/l #	14
16) Acetone	3.96	43	1625	8.982	ug/l #	72
31) Cyclohexane	7.80	56	1795	1.413	ug/l #	1
36) 1,1-Dichloropropene	7.80	75	4778	4.774	ug/l #	46
38) Carbon Tetrachloride	7.80	117	6258	6.498	ug/l #	14
59) 2-Hexanone	10.84	43	549	1.270	ug/l #	44
73) Isopropylbenzene	12.34	105	13777	4.959	ug/l #	54
74) N-amyl acetate	12.33	43	7108	8.933	ug/l #	4
76) 1,2,3-Trichloropropane	12.48	75	20094	46.945	ug/l #	100
79) 2-Chlorotoluene	12.89	91	12091	6.497	ug/l #	39
81) trans-1,4-Dichloro-2-buten	12.48	75	20094	105.256	ug/l #	13
82) 4-Chlorotoluene	12.89	91	12091	6.268	ug/l #	39
83) tert-Butylbenzene	13.14	119	2301	1.165	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.14	105	4594	1.994	ug/l #	42
86) p-Isopropyltoluene	13.37	119	2557	1.019	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	14.52	75	751	7.714	ug/l #	36
93) 1,2,4-Trichlorobenzene	15.01	180	785	1.030	ug/l #	37

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.00 min

Lab File: VY000506.D

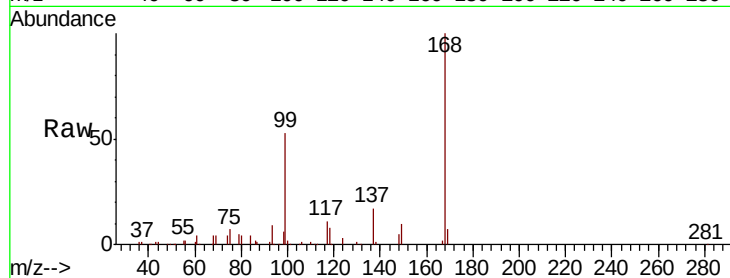
Acq: 31 Oct 2019 15:25

Tot Ion:168 Resp: 63429

Ion Ratio Lower Upper

168 100

99 53.5 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VY0

7.80

30000

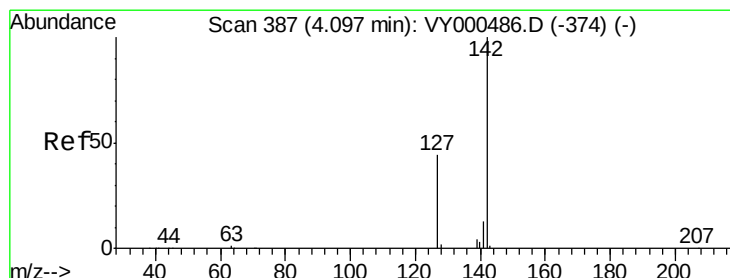
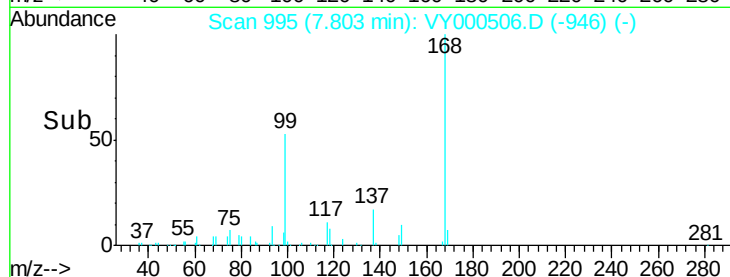
20000

10000

0

7.70 7.80 7.90

Time-->



#10

Methyl Iodide

Concen: 3.329 ug/l

RT: 4.09 min Scan# 386

Delta R.T. -0.01 min

Lab File: VY000506.D

Acq: 31 Oct 2019 15:25

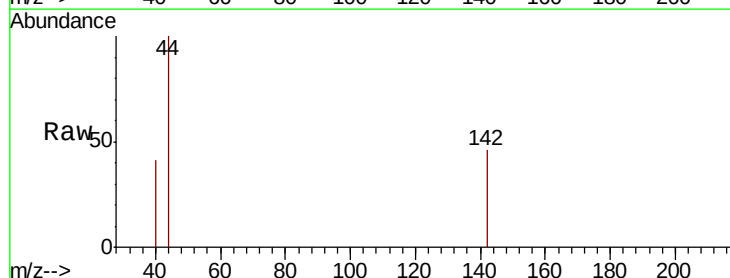
Tgt Ion:142 Resp: 119

Ion Ratio Lower Upper

142 100

127 0.0 33.7 50.5#

141 0.0 10.9 16.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

150

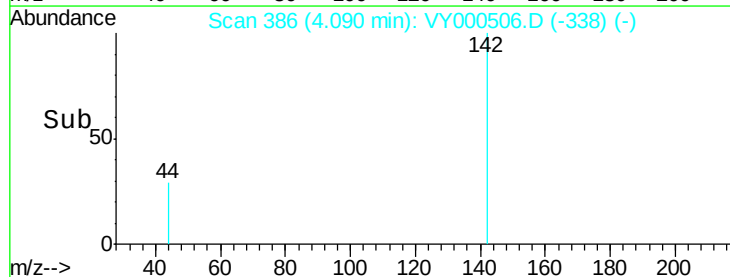
100

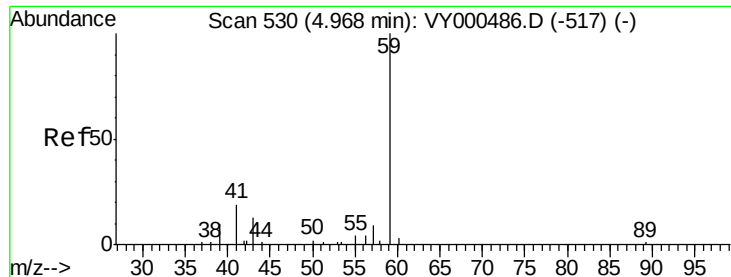
50

0

4.06 4.08 4.10 4.12

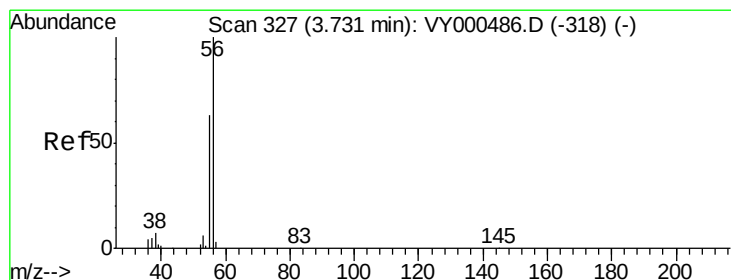
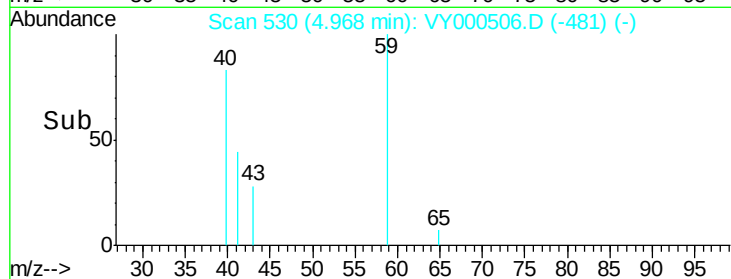
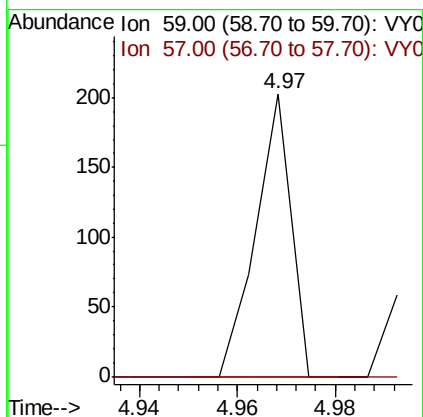
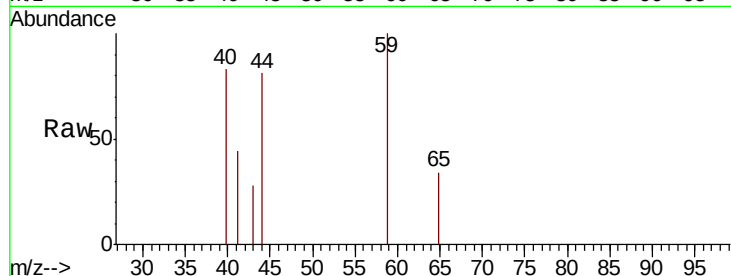
Time-->





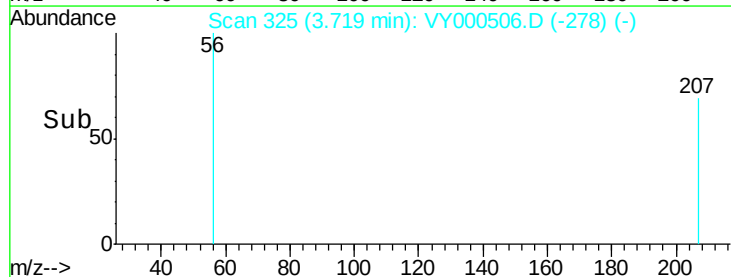
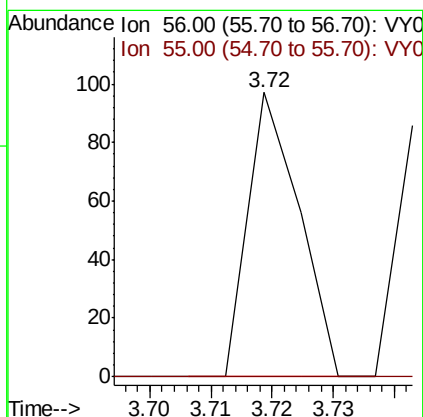
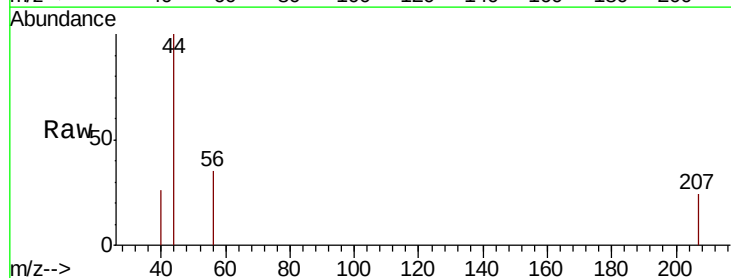
#11
Tert butyl alcohol
Concen: 1.581 ug/l
RT: 4.97 min Scan# 530
Delta R.T. 0.00 min
Lab File: VY000506.D
Acq: 31 Oct 2019 15:25

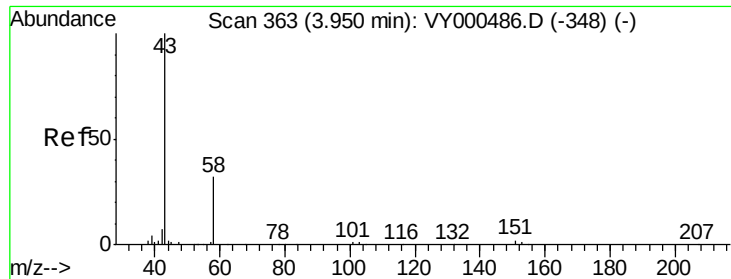
Tot Ion: 59 Resp: 101
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 1.006 ug/l
RT: 3.72 min Scan# 325
Delta R.T. -0.01 min
Lab File: VY000506.D
Acq: 31 Oct 2019 15:25

Tgt Ion: 56 Resp: 56
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.6#





#16

Acetone

Concen: 8.982 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY000506.D

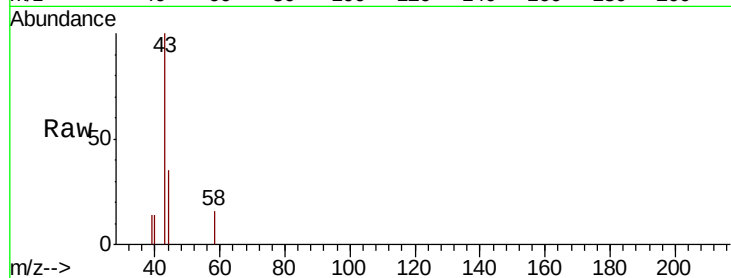
Acq: 31 Oct 2019 15:25

Tot Ion: 43 Resp: 1625

Ion Ratio Lower Upper

43 100

58 16.3 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

3.96

500

400

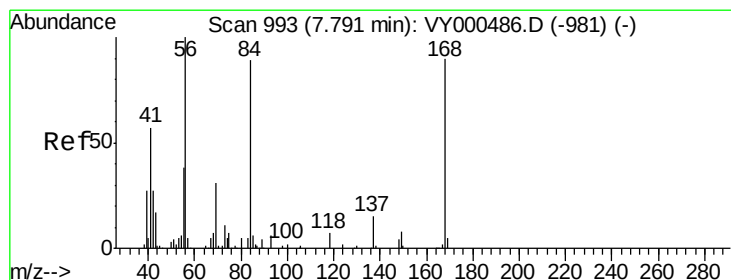
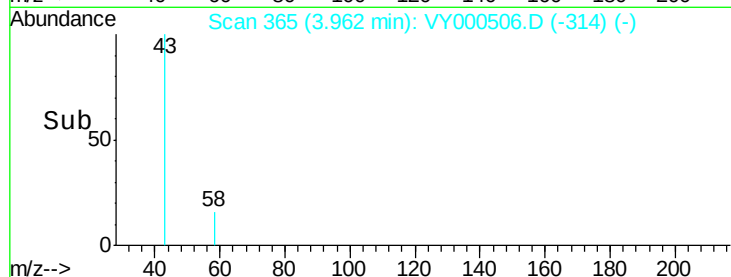
300

200

100

0

Time-->



#31

Cyclohexane

Concen: 1.413 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

Lab File: VY000506.D

Acq: 31 Oct 2019 15:25

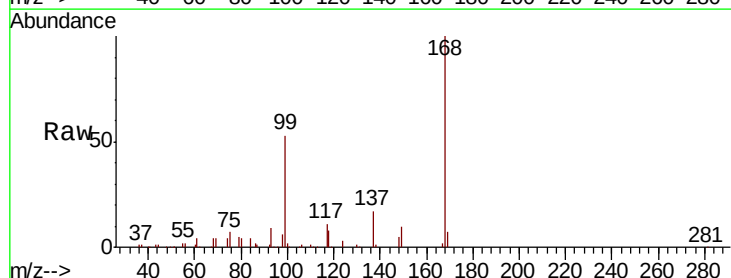
Tgt Ion: 56 Resp: 1795

Ion Ratio Lower Upper

56 100

69 175.6 25.0 37.6#

84 163.4 71.4 107.2#



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

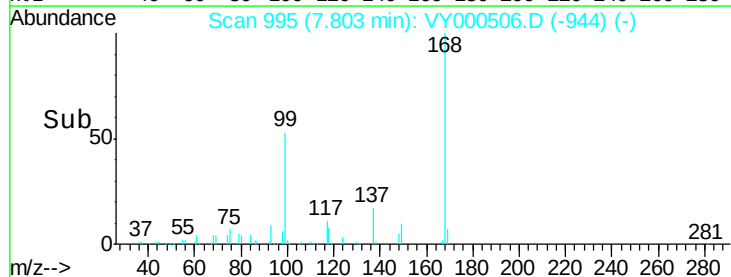
1500

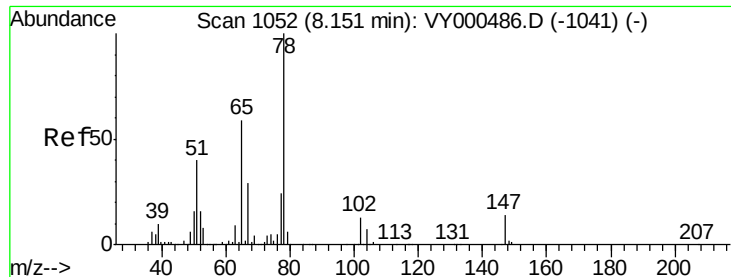
1000

500

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 51.008 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VY000506.D

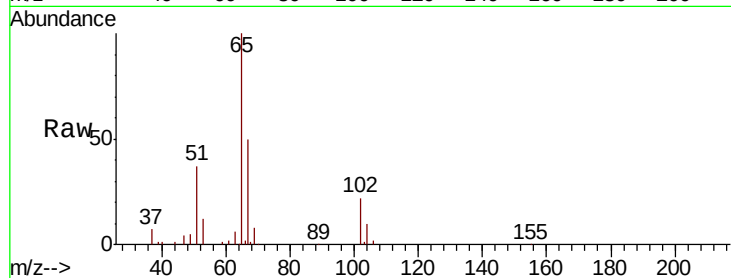
Acq: 31 Oct 2019 15:25

Tot Ion: 65 Resp: 33482

Ion Ratio Lower Upper

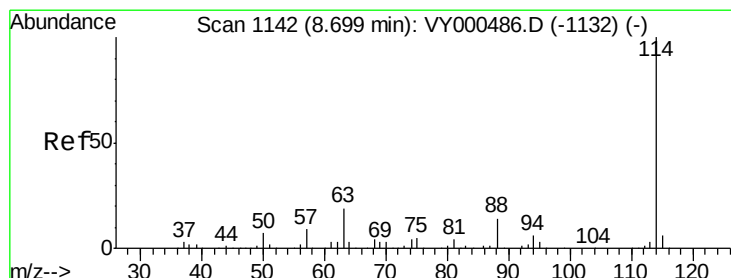
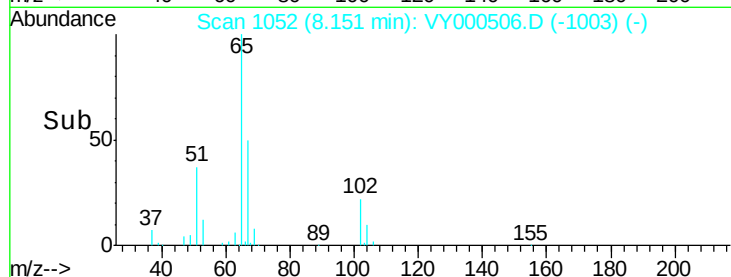
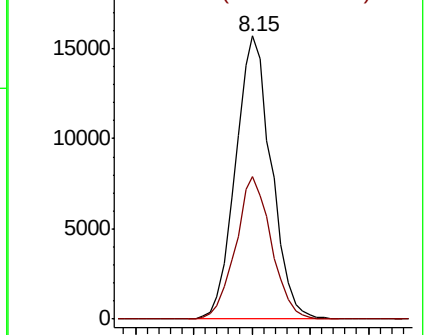
65 100

67 50.2 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VY000506.D

Acq: 31 Oct 2019 15:25

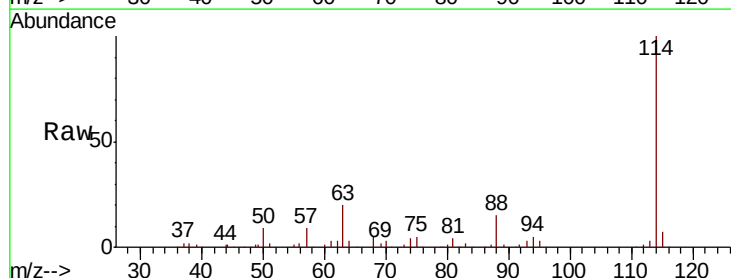
Tgt Ion: 114 Resp: 105870

Ion Ratio Lower Upper

114 100

63 20.3 0.0 38.0

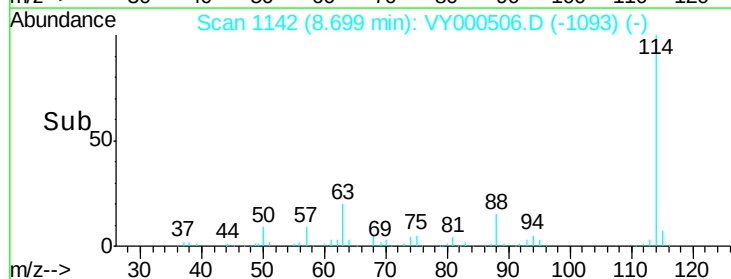
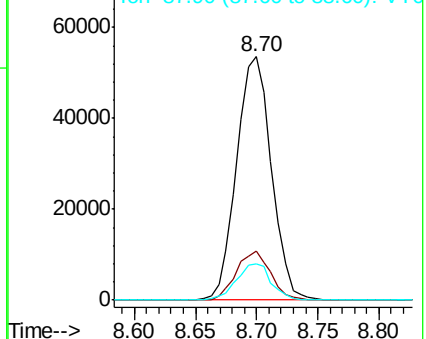
88 15.0 0.0 28.6

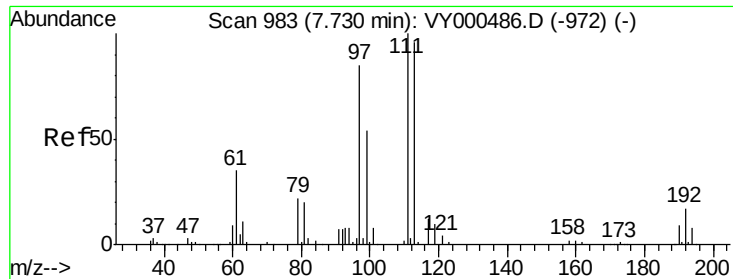


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

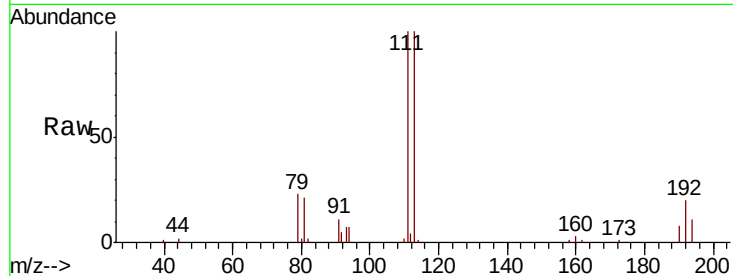
Ion 87.90 (87.60 to 88.60): VY0



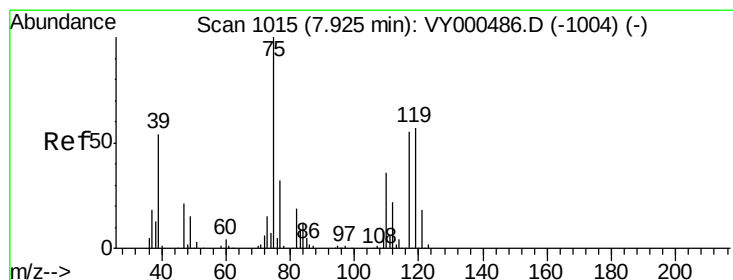
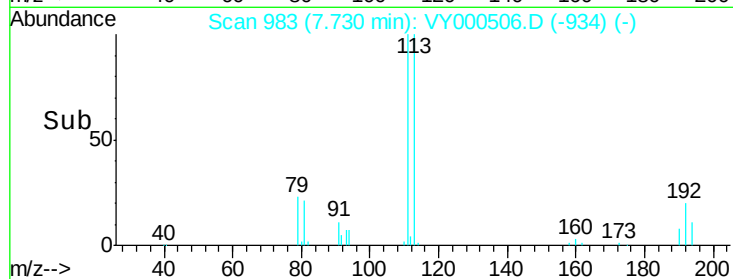
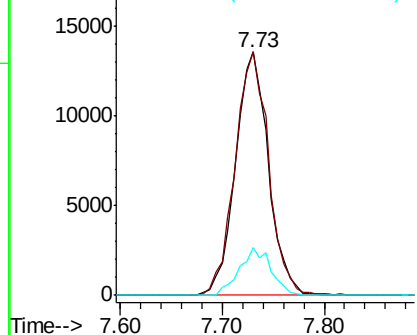


#35
 Dibromofluoromethane
 Concen: 48.680 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. 0.00 min
 Lab File: VY000506.D
 Acq: 31 Oct 2019 15:25

Tot Ion:113 Resp: 30256
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.7 122.5
 192 18.8 15.0 22.4

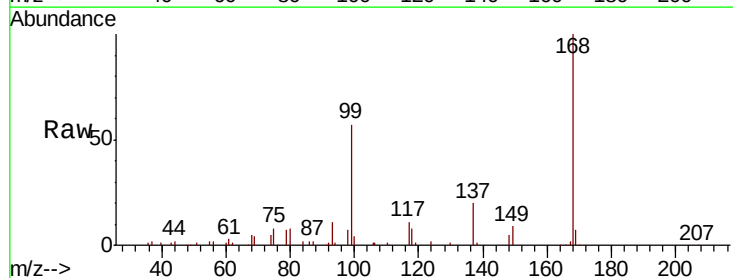


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

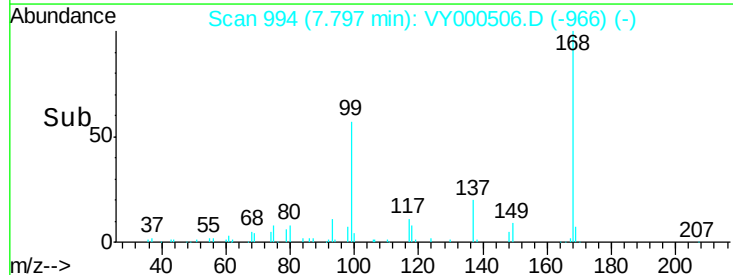
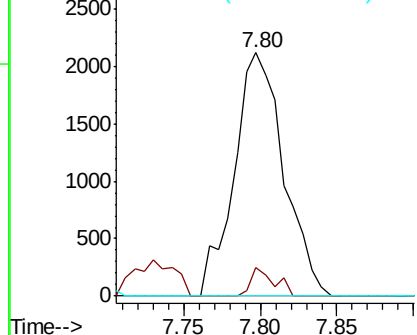


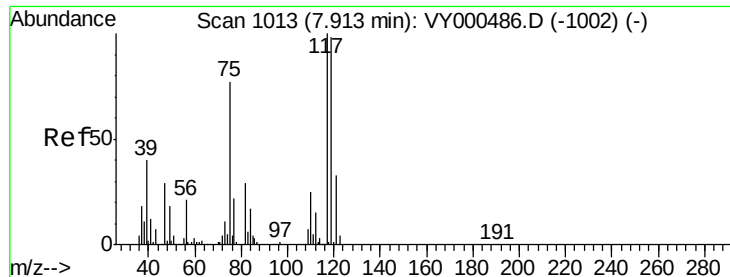
#36
 1,1-Dichloropropene
 Concen: 4.774 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY000506.D
 Acq: 31 Oct 2019 15:25

Tgt Ion: 75 Resp: 4778
 Ion Ratio Lower Upper
 75 100
 110 5.6 18.1 54.1#
 77 0.0 25.0 37.6#



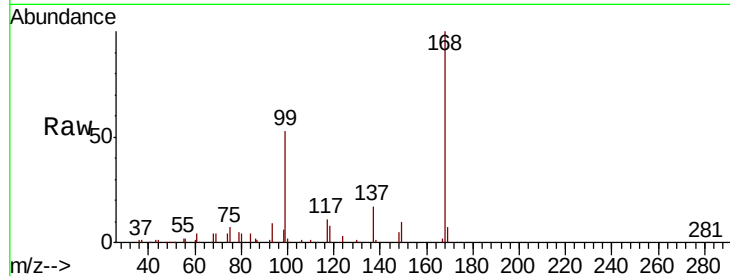
Abundance Ion 74.90 (74.60 to 75.60): VY0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VY0



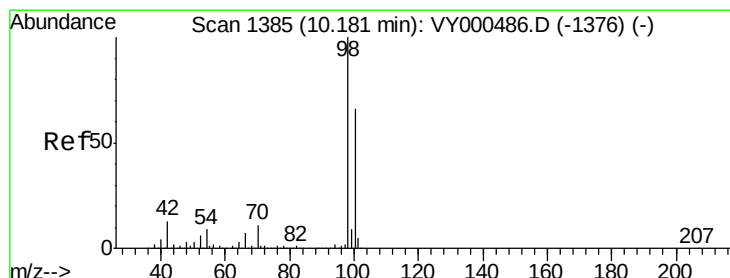
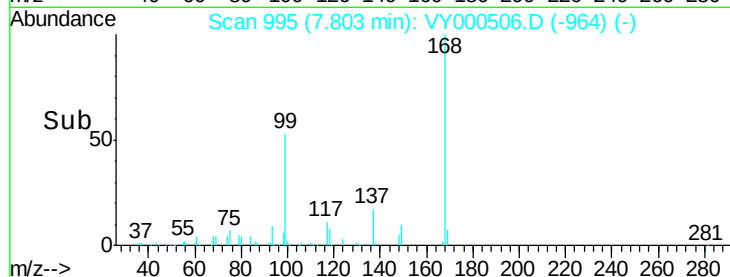
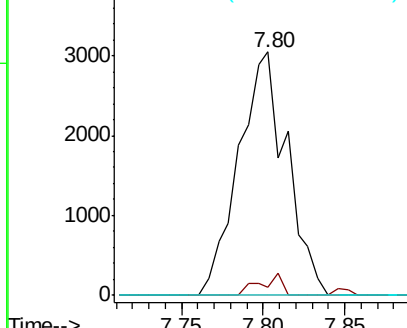


#38
Carbon Tetrachloride
Concen: 6.498 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.11 min
Lab File: VY000506.D
Acq: 31 Oct 2019 15:25

Tot Ion:117 Resp: 6258
Ion Ratio Lower Upper
117 100
119 3.6 78.0 117.0#
121 0.0 26.6 40.0#

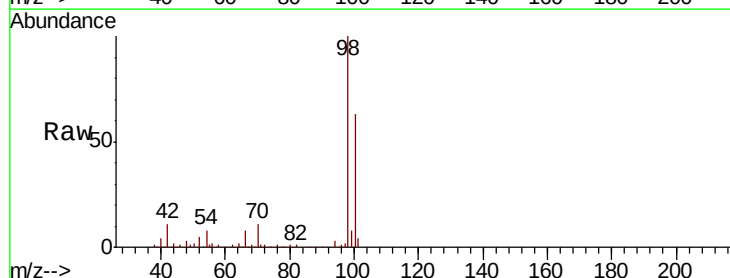


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

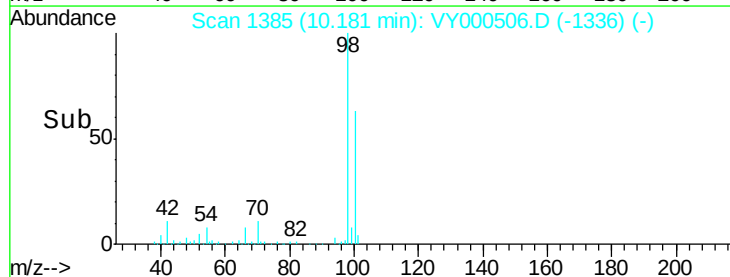
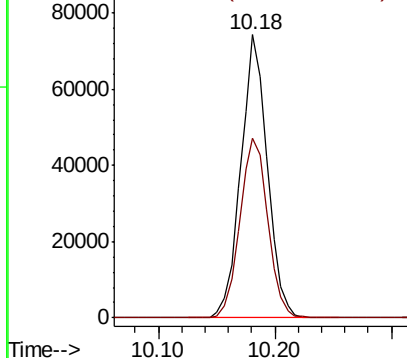


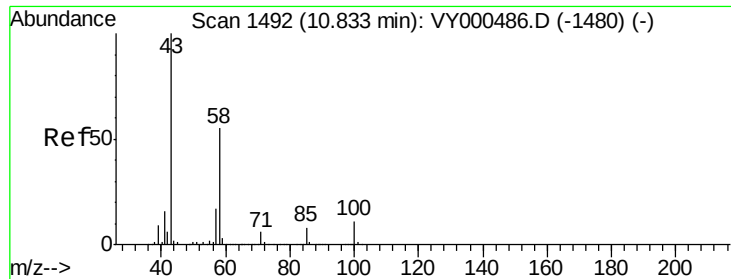
#50
Toluene-d8
Concen: 50.107 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VY000506.D
Acq: 31 Oct 2019 15:25

Tgt Ion: 98 Resp: 118171
Ion Ratio Lower Upper
98 100
100 66.7 52.9 79.3



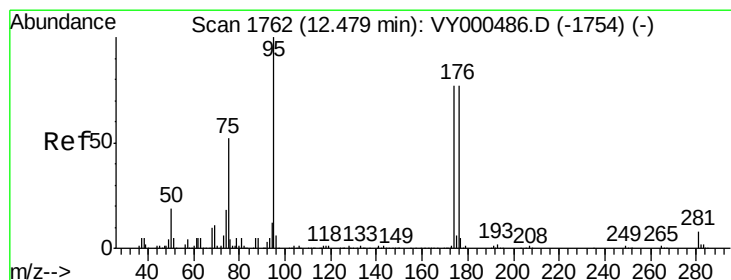
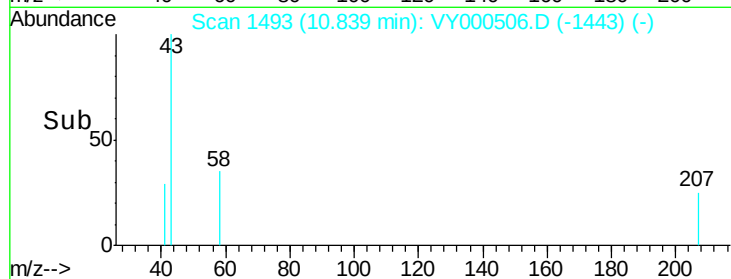
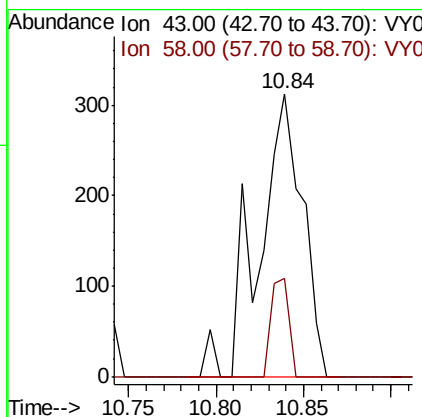
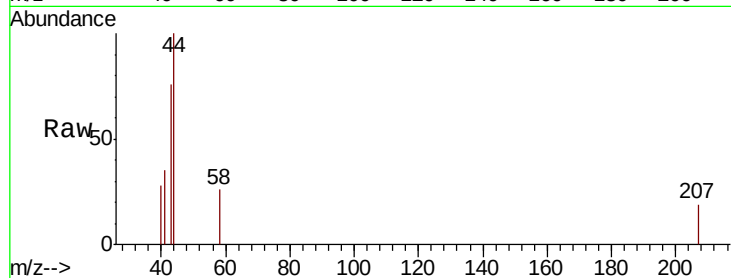
Abundance Ion 98.00 (97.70 to 98.70): VY0
Ion 100.00 (99.70 to 100.70): VY0





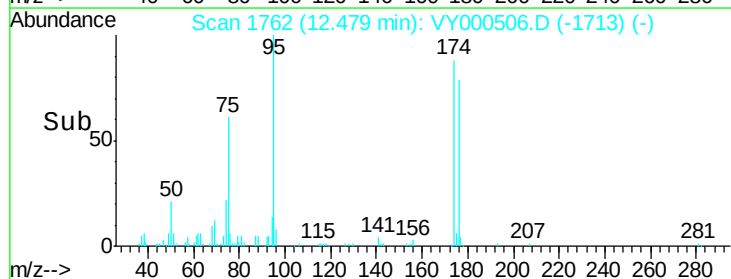
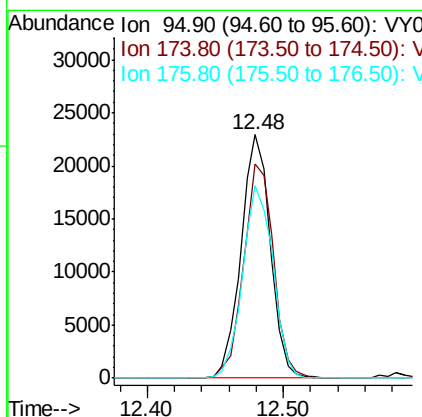
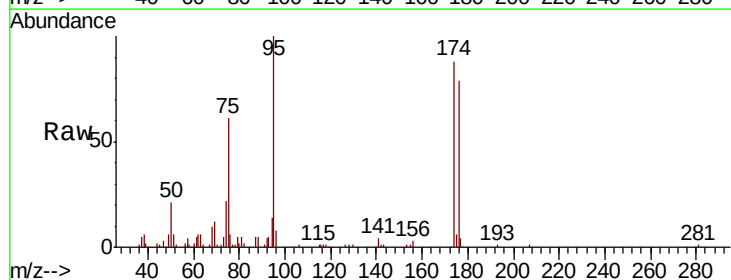
#59
2-Hexanone
Concen: 1.270 ug/l
RT: 10.84 min Scan# 1493
Delta R.T. 0.01 min
Lab File: VY000506.D
Acq: 31 Oct 2019 15:25

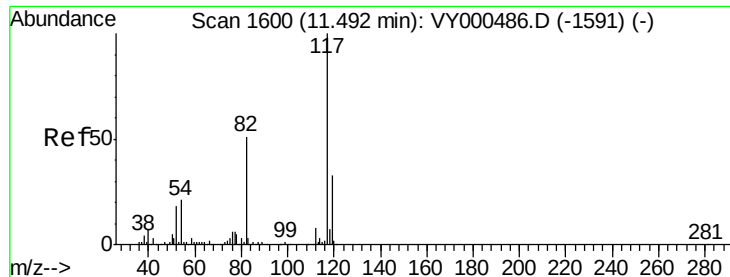
Tot Ion: 43 Resp: 549
Ion Ratio Lower Upper
43 100
58 14.0 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 38.324 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VY000506.D
Acq: 31 Oct 2019 15:25

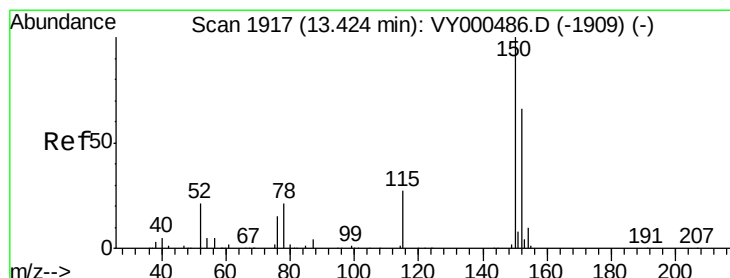
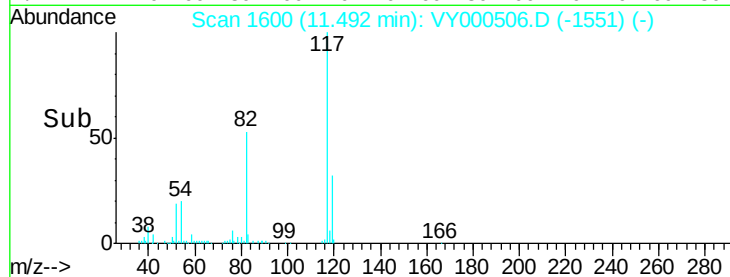
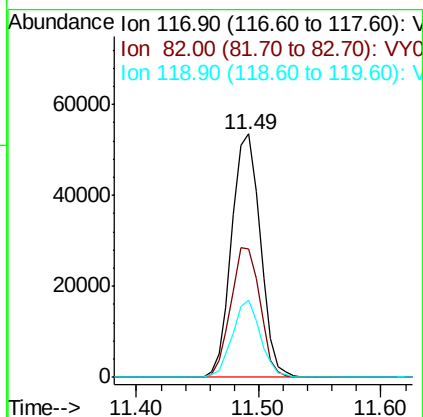
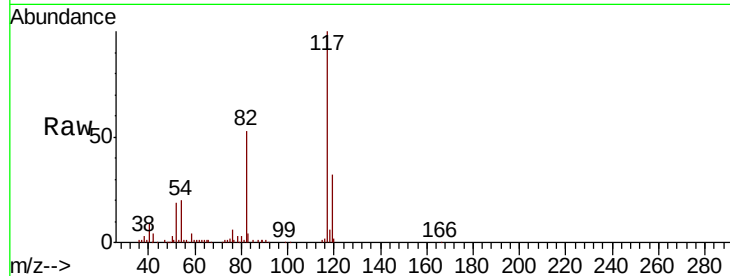
Tgt Ion: 95 Resp: 34408
Ion Ratio Lower Upper
95 100
174 90.5 0.0 161.6
176 82.4 0.0 157.8





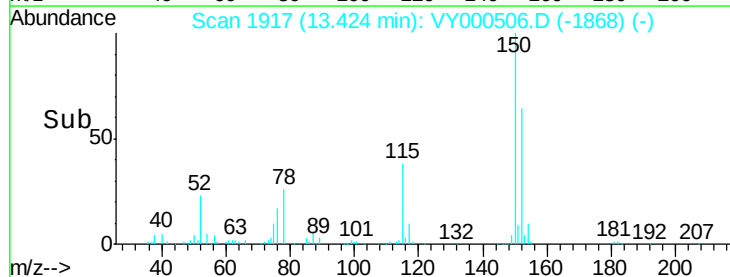
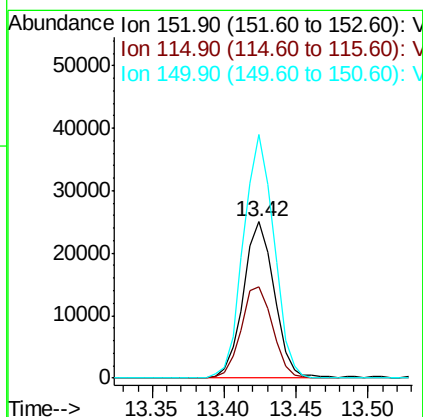
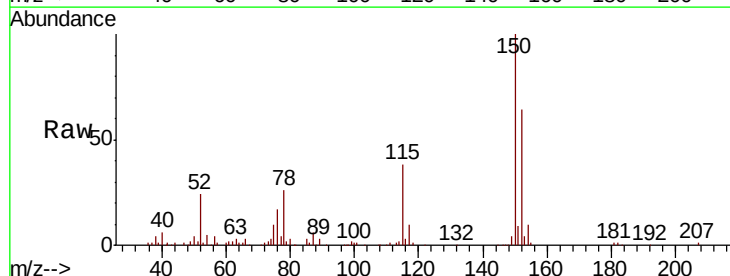
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VY000506.D
Acq: 31 Oct 2019 15:25

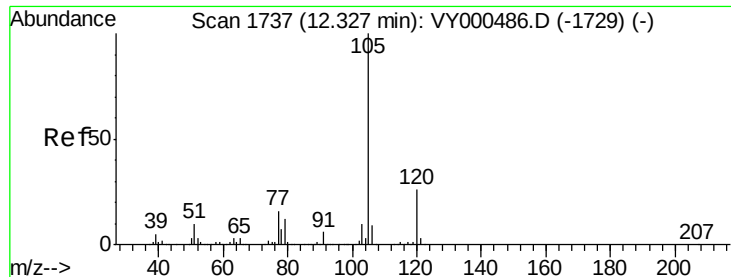
Tot Ion:117 Resp: 87063
Ion Ratio Lower Upper
117 100
82 53.0 40.8 61.2
119 31.6 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VY000506.D
Acq: 31 Oct 2019 15:25

Tgt Ion:152 Resp: 37592
Ion Ratio Lower Upper
152 100
115 59.4 29.1 87.4
150 152.3 0.0 348.8





#73

Isopropylbenzene

Concen: 4.959 ug/l

RT: 12.34 min Scan# 1739

Delta R.T. 0.01 min

Lab File: VY000506.D

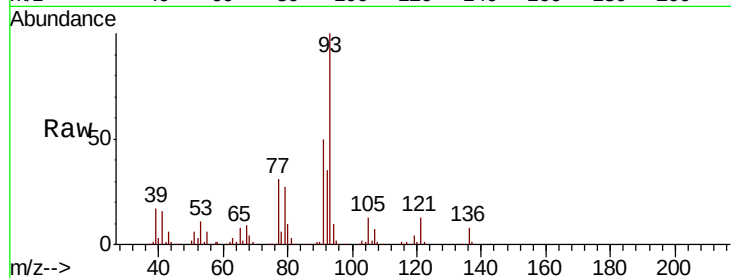
Acq: 31 Oct 2019 15:25

Tot Ion: 105 Resp: 13777

Ion Ratio Lower Upper

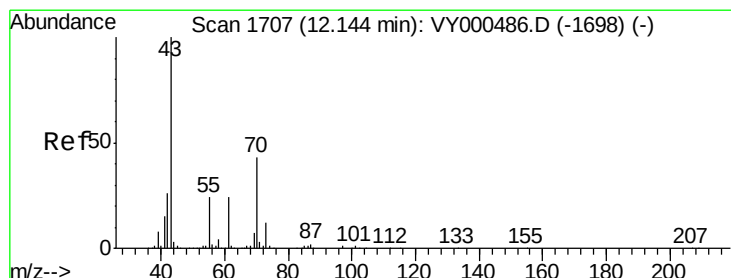
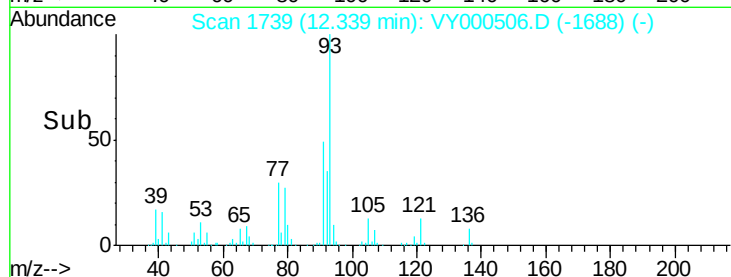
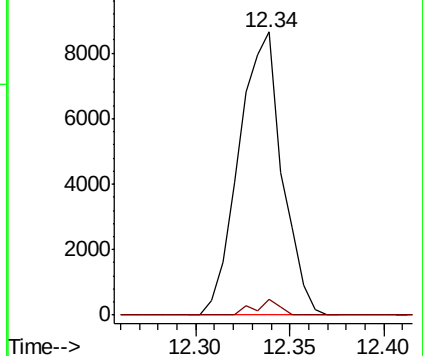
105 100

120 3.1 13.5 40.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 8.933 ug/l

RT: 12.33 min Scan# 1738

Delta R.T. 0.19 min

Lab File: VY000506.D

Acq: 31 Oct 2019 15:25

Tgt Ion: 43 Resp: 7108

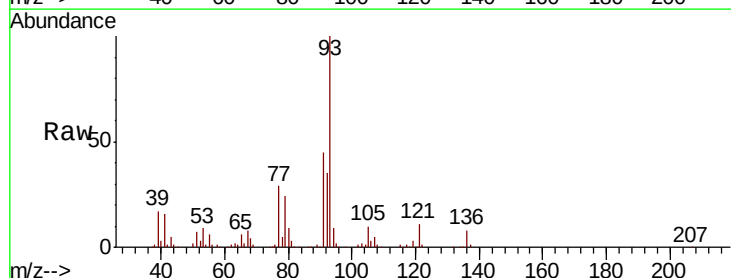
Ion Ratio Lower Upper

43 100

70 2.8 33.1 49.7#

55 125.6 18.0 27.0#

61 1.9 19.1 28.7#

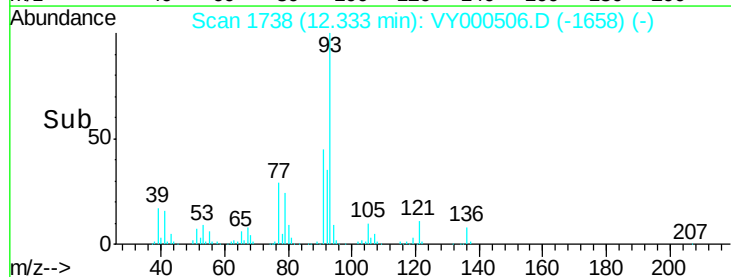
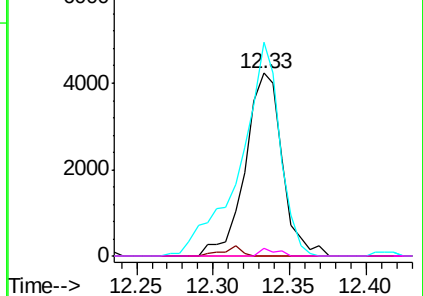


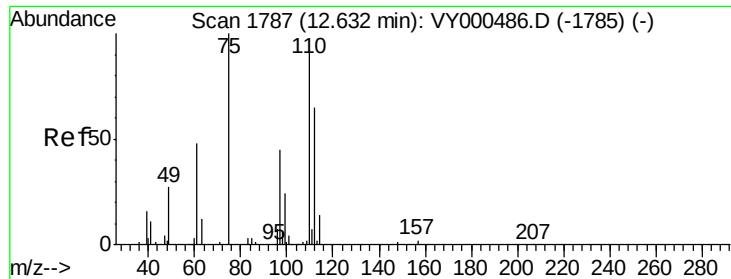
Abundance Ion 43.00 (42.70 to 43.70): VY0

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

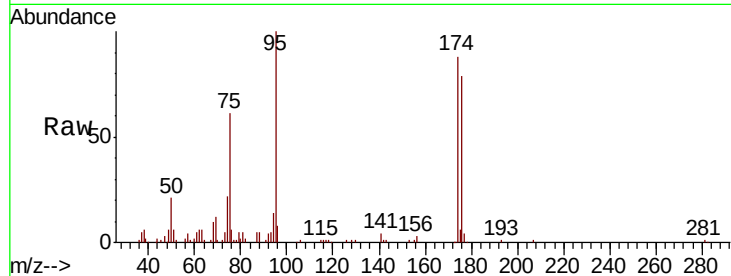




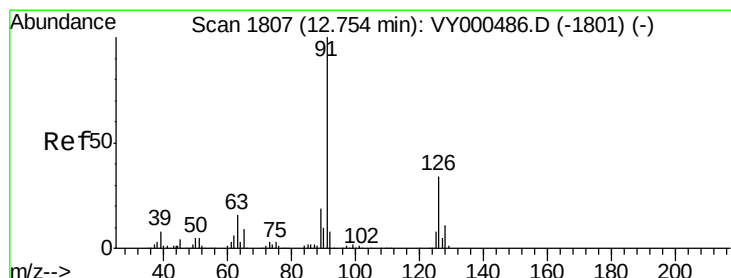
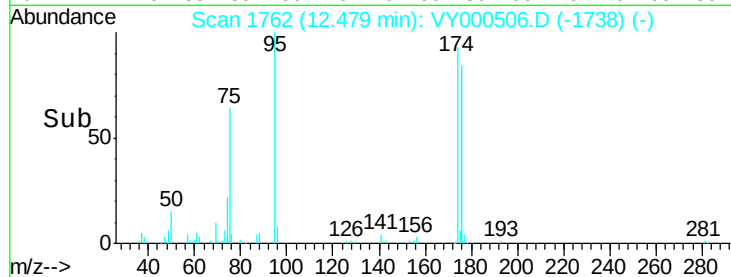
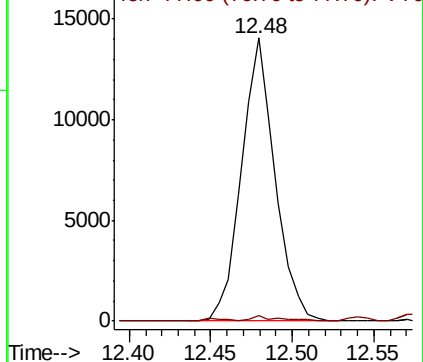
#76

1,2,3-Trichloropropane
 Concen: 46.945 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.15 min
 Lab File: VY000506.D
 Acq: 31 Oct 2019 15:25

Tot Ion: 75 Resp: 20094
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



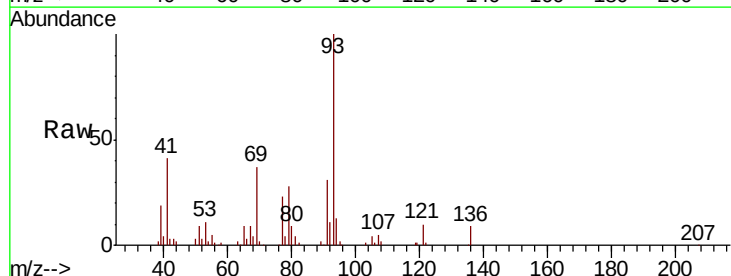
Abundance Ion 74.90 (74.60 to 75.60): VY0
 Ion 77.00 (76.70 to 77.70): VY0



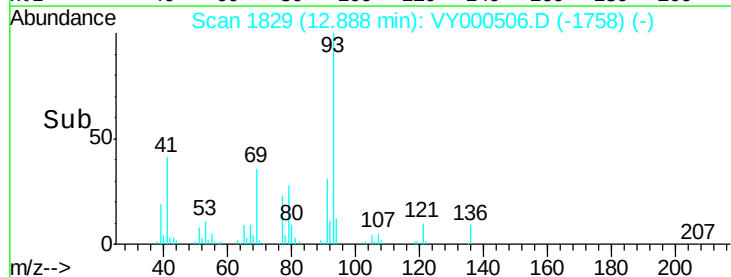
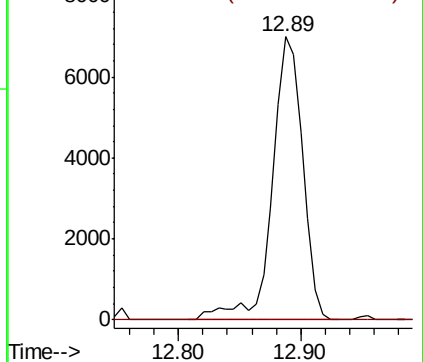
#79

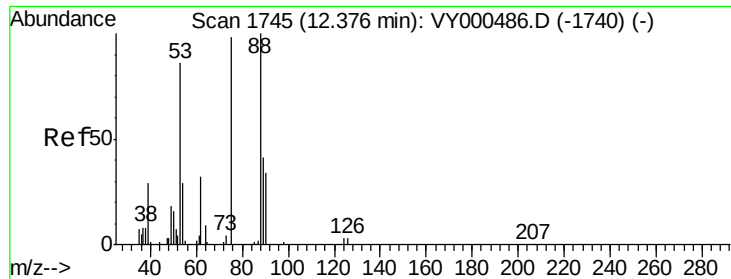
2-Chlorotoluene
 Concen: 6.497 ug/l
 RT: 12.89 min Scan# 1829
 Delta R.T. 0.13 min
 Lab File: VY000506.D
 Acq: 31 Oct 2019 15:25

Tgt Ion: 91 Resp: 12091
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.7 53.1#



Abundance Ion 91.00 (90.70 to 91.70): VY0
 Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 105.256 ug/l

RT: 12.48 min Scan# 1762

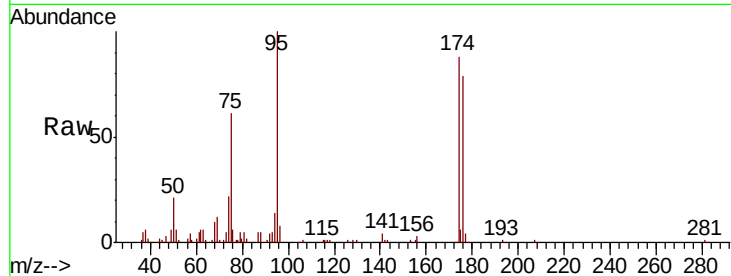
Delta R.T. 0.10 min

Lab File: VY000506.D

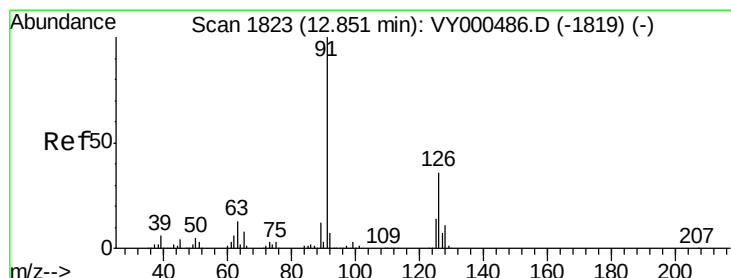
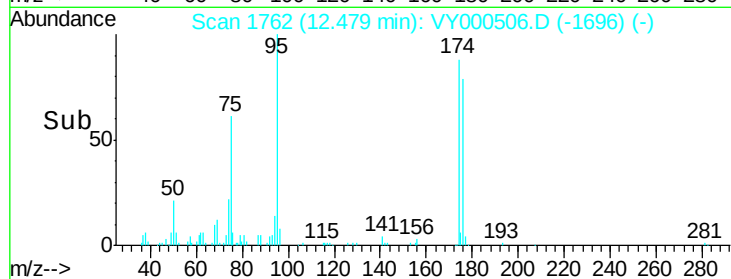
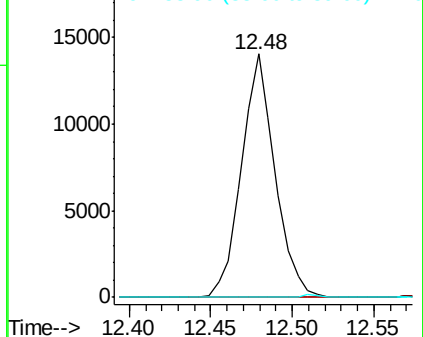
Acq: 31 Oct 2019 15:25

Tot Ion: 75 Resp: 20094

Ion	Ratio	Lower	Upper
75	100		
53	0.0	73.2	109.8#
89	0.0	35.9	53.9#



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



#82

4-Chlorotoluene

Concen: 6.268 ug/l

RT: 12.89 min Scan# 1829

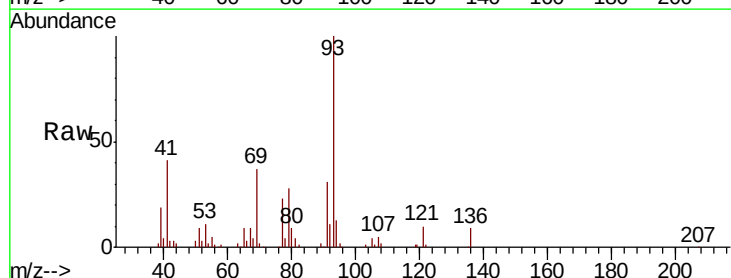
Delta R.T. 0.04 min

Lab File: VY000506.D

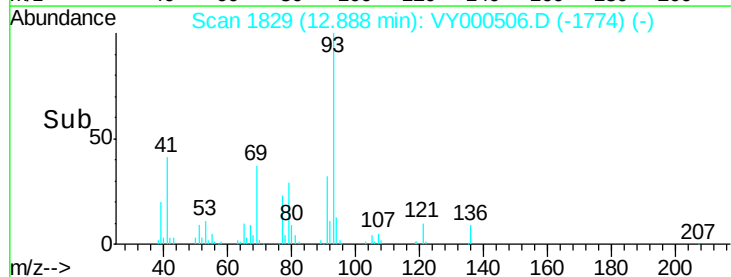
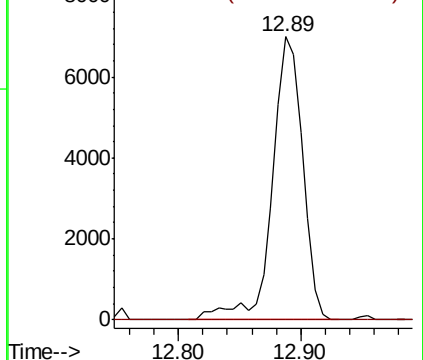
Acq: 31 Oct 2019 15:25

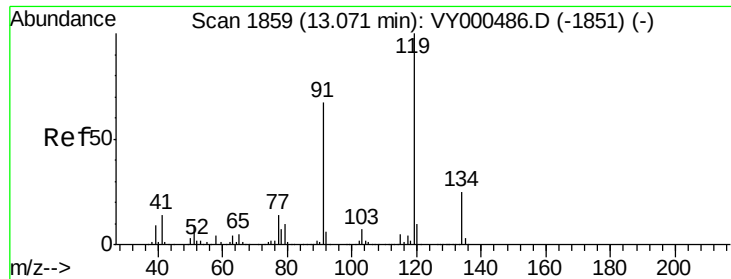
Tgt Ion: 91 Resp: 12091

Ion	Ratio	Lower	Upper
91	100		
126	0.0	17.6	52.9#



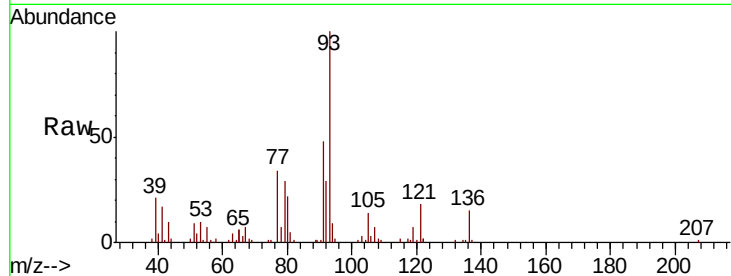
Abundance Ion 91.00 (90.70 to 91.70): VY0
Ion 125.90 (125.60 to 126.60): V



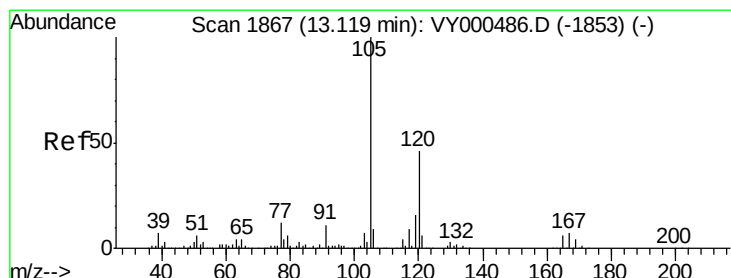
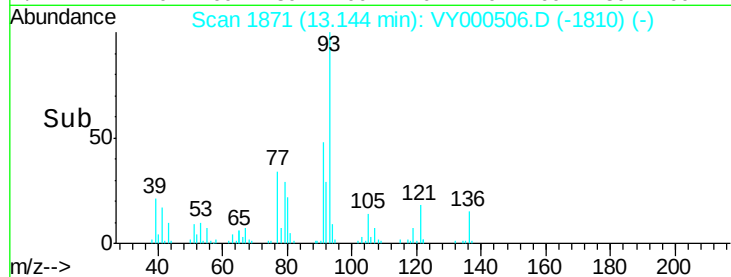
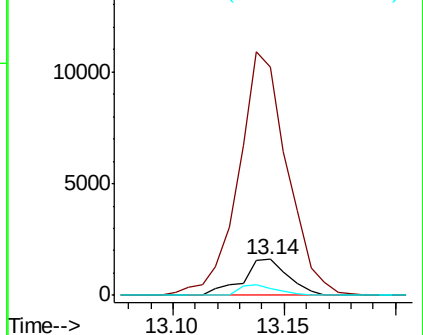


#83
tert-Butylbenzene
Concen: 1.165 ug/l
RT: 13.14 min Scan# 1871
Delta R.T. 0.07 min
Lab File: VY000506.D
Acq: 31 Oct 2019 15:25

Tot Ion:119 Resp: 2301
Ion Ratio Lower Upper
119 100
91 721.9 32.1 96.3#
134 23.3 13.2 39.5

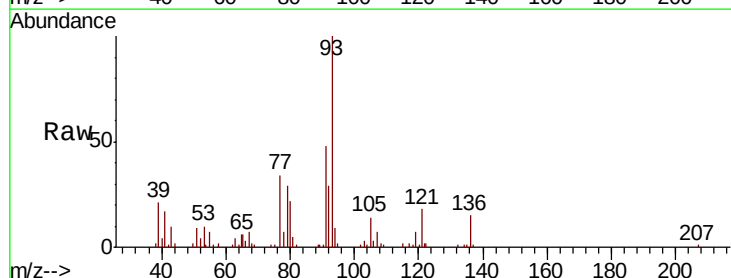


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VY0
Ion 134.00 (133.70 to 134.70): V

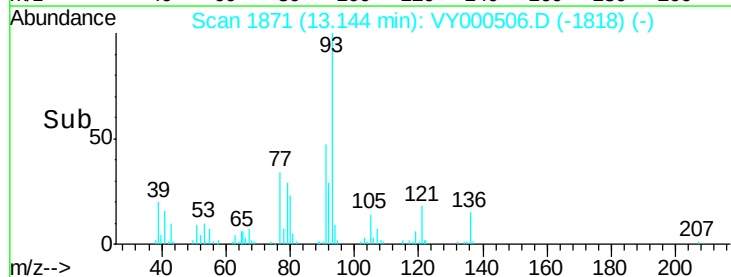
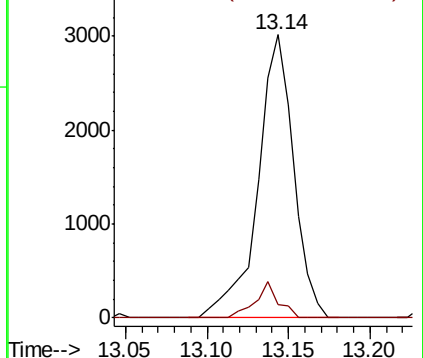


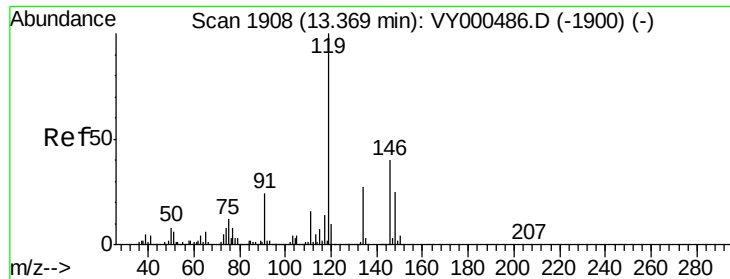
#84
1,2,4-Trimethylbenzene
Concen: 1.994 ug/l
RT: 13.14 min Scan# 1871
Delta R.T. 0.02 min
Lab File: VY000506.D
Acq: 31 Oct 2019 15:25

Tgt Ion:105 Resp: 4594
Ion Ratio Lower Upper
105 100
120 8.2 23.3 69.9#



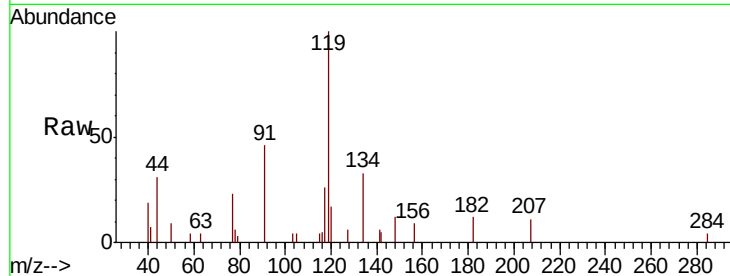
Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V



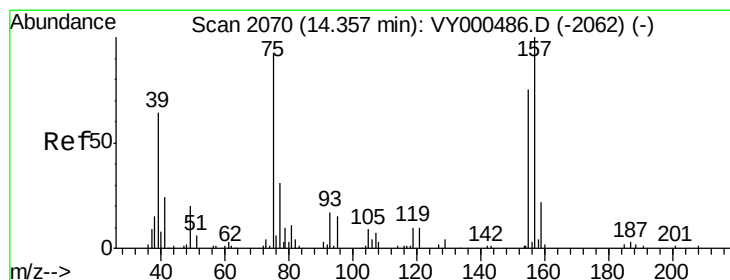
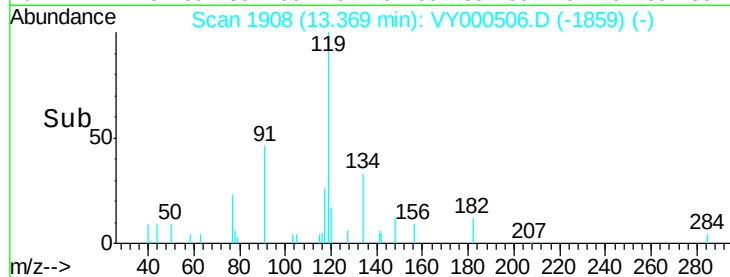
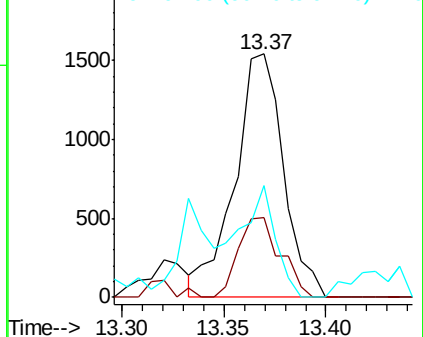


#86
 p-Isopropyltoluene
 Concen: 1.019 ug/l
 RT: 13.37 min Scan# 1908
 Delta R.T. 0.00 min
 Lab File: VY000506.D
 Acq: 31 Oct 2019 15:25

Tot Ion:119 Resp: 2557
 Ion Ratio Lower Upper
 119 100
 134 28.1 13.6 40.8
 91 30.2 12.0 36.1

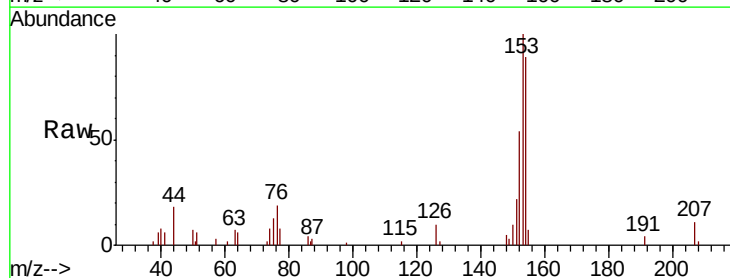


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

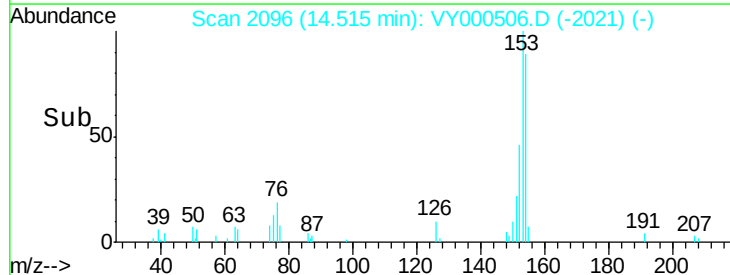
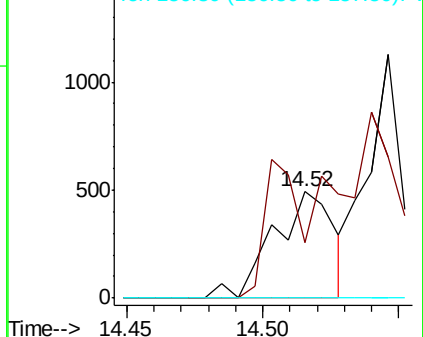


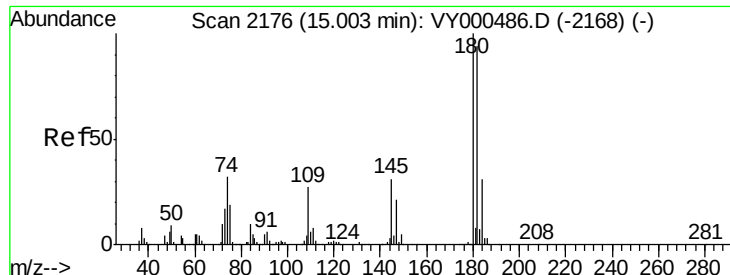
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 7.714 ug/l
 RT: 14.52 min Scan# 2096
 Delta R.T. 0.16 min
 Lab File: VY000506.D
 Acq: 31 Oct 2019 15:25

Tgt Ion: 75 Resp: 751
 Ion Ratio Lower Upper
 75 100
 155 74.4 42.4 127.1
 157 0.0 55.1 165.3#



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





#93

1,2,4-Trichlorobenzene

Concen: 1.030 ug/l

RT: 15.01 min Scan# 2177

Delta R.T. 0.01 min

Lab File: VY000506.D

Acq: 31 Oct 2019 15:25

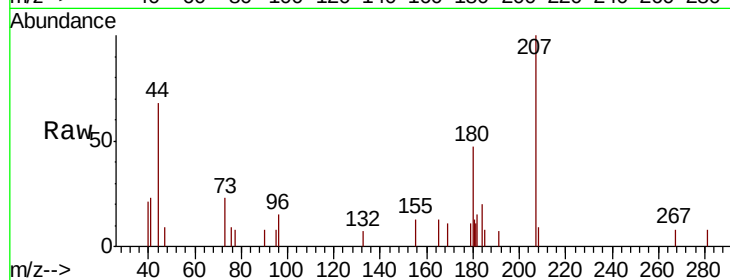
Tot Ion:180 Resp: 785

Ion Ratio Lower Upper

180 100

182 32.1 47.8 143.4#

145 0.0 16.0 47.9#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

