

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY103119\
 Data File : VY000501.D
 Acq On : 31 Oct 2019 13:29
 Operator : SY/MD
 Sample : K5143-05
 Misc : 6.50G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 01 05:50:44 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	90252	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	146488	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	112905	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	41002	50.00	ug/l	0.00

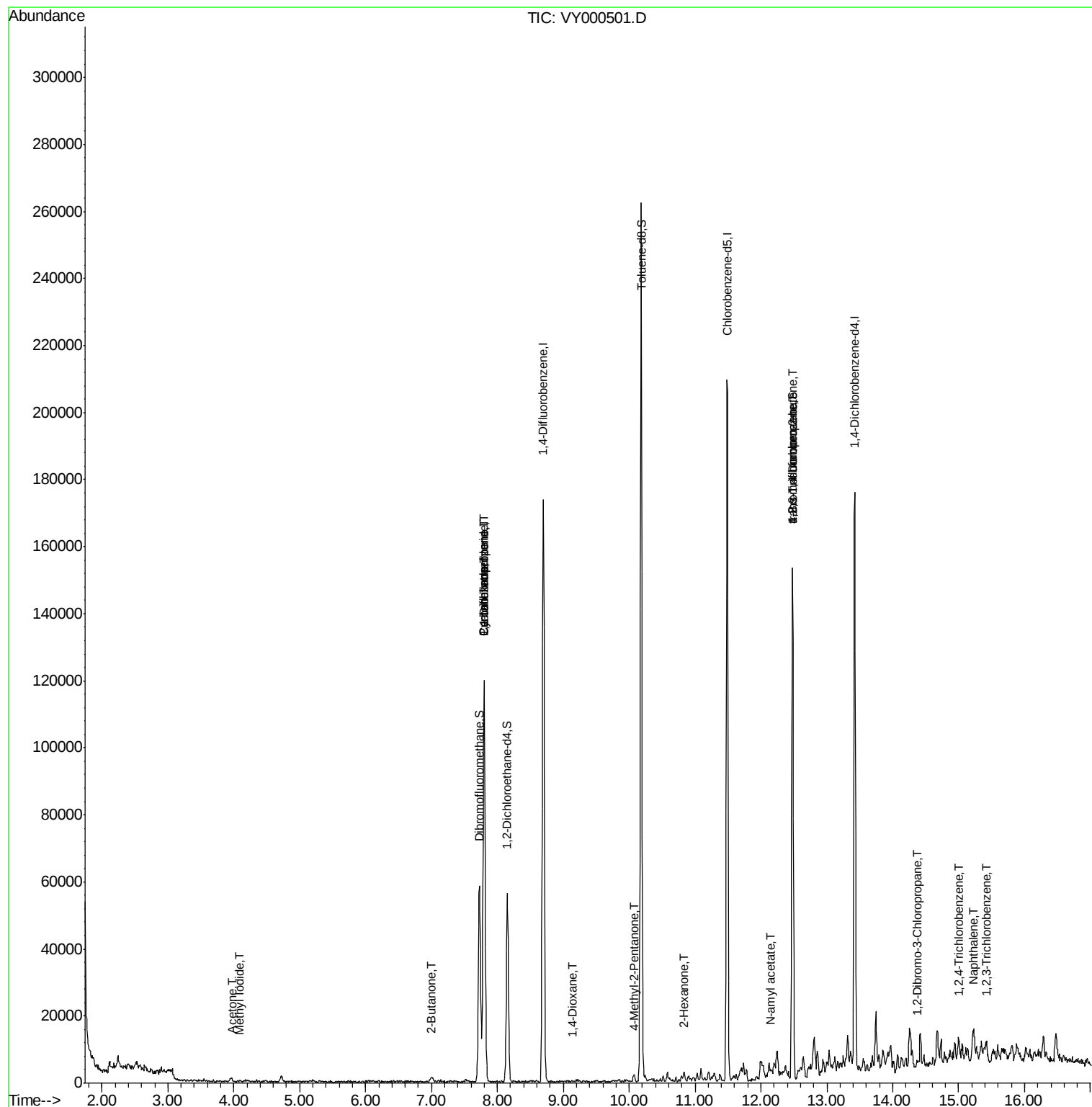
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	43686	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	
35) Dibromofluoromethane	7.73	113	39595	46.04	ug/l	0.00
Spiked Amount			Recovery	=	92.08%	
50) Toluene-d8	10.18	98	164986	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	
62) 4-Bromofluorobenzene	12.48	95	45406	36.55	ug/l	0.00
Spiked Amount			Recovery	=	73.10%	

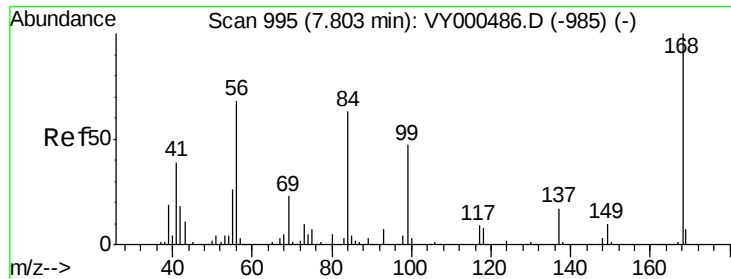
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	4.10	142	337	3.458	ug/l #	90
16) Acetone	3.97	43	1986	7.715	ug/l #	64
25) 2-Butanone	6.99	43	627	1.526	ug/l #	49
31) Cyclohexane	7.80	56	2142	1.185	ug/l #	48
36) 1,1-Dichloropropene	7.80	75	7612	5.497	ug/l #	46
38) Carbon Tetrachloride	7.80	117	8814	6.615	ug/l #	17
49) 1,4-Dioxane	9.14	88	21	2.839	ug/l #	27
51) 4-Methyl-2-Pentanone	10.07	43	1512	1.841	ug/l	94
59) 2-Hexanone	10.83	43	2133	3.565	ug/l	93
74) N-amyl acetate	12.14	43	1981	2.283	ug/l #	52
76) 1,2,3-Trichloropropane	12.48	75	24637	52.771	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	24637	118.320	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.36	75	125	1.177	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.01	180	1440	1.732	ug/l #	64
95) Naphthalene	15.23	128	6448	3.493	ug/l	96
96) 1,2,3-Trichlorobenzene	15.42	180	1354	1.815	ug/l #	61

(#) = 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# 994

Delta R.T. -0.01 min

Lab File: VY000501.D

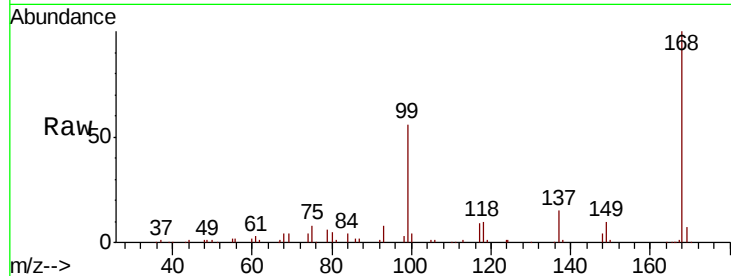
Acq: 31 Oct 2019 13:29

Tot Ion:168 Resp: 90252

Ion Ratio Lower Upper

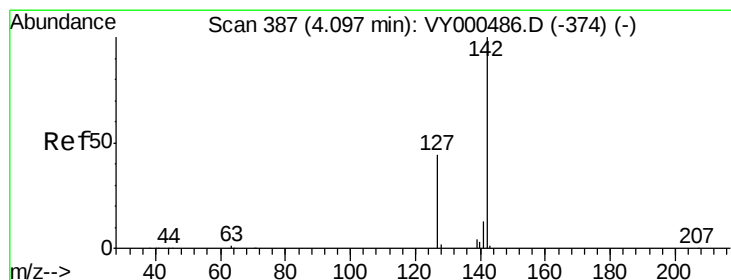
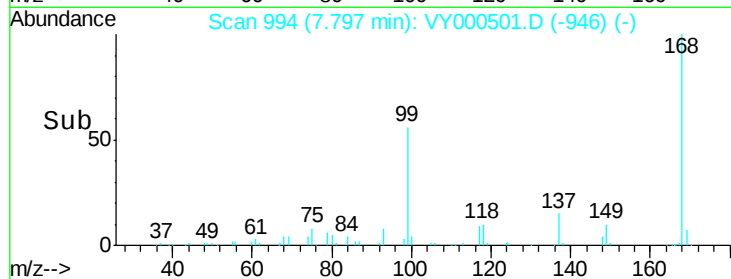
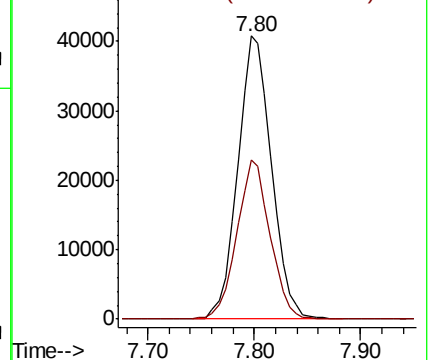
168 100

99 56.1 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VY0



#10

Methyl Iodide

Concen: 3.458 ug/l

RT: 4.10 min Scan# 387

Delta R.T. 0.00 min

Lab File: VY000501.D

Acq: 31 Oct 2019 13:29

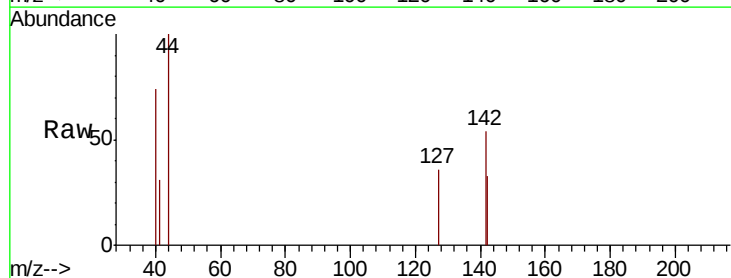
Tgt Ion:142 Resp: 337

Ion Ratio Lower Upper

142 100

127 40.7 33.7 50.5

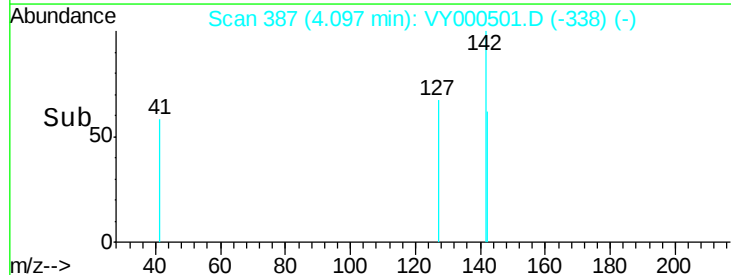
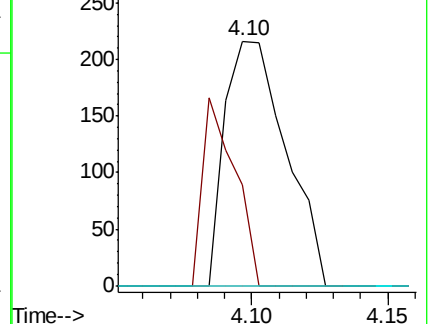
141 0.0 10.9 16.3#

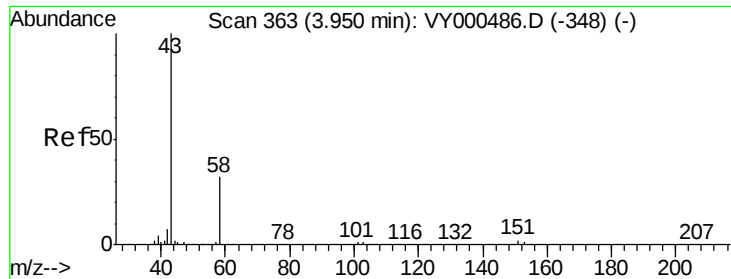


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#16

Acetone

Concen: 7.715 ug/l

RT: 3.97 min Scan# 366

Delta R.T. 0.02 min

Lab File: VY000501.D

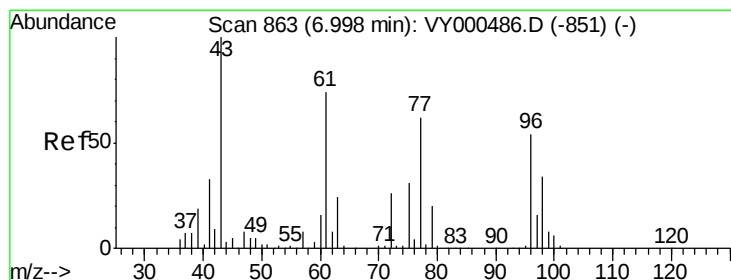
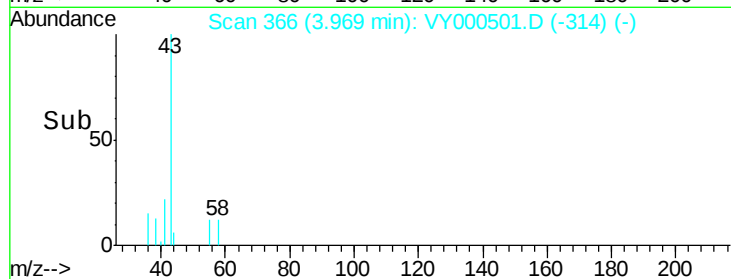
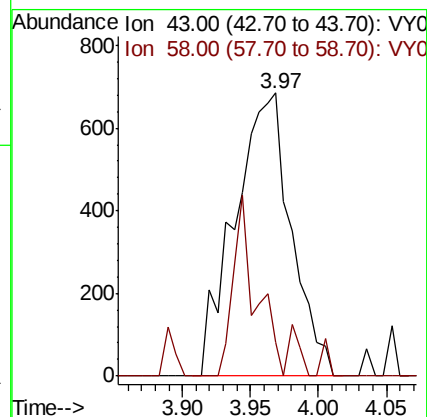
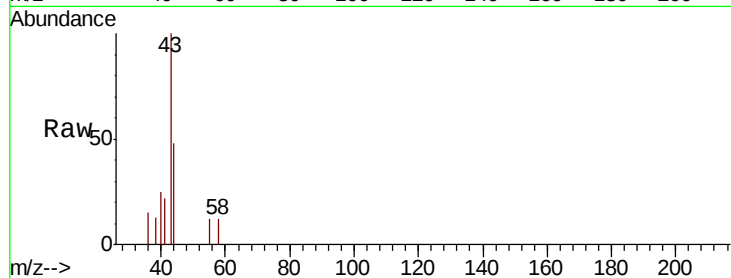
Acq: 31 Oct 2019 13:29

Tot Ion: 43 Resp: 1986

Ion Ratio Lower Upper

43 100

58 11.8 25.8 38.6#



#25

2-Butanone

Concen: 1.526 ug/l

RT: 6.99 min Scan# 862

Delta R.T. -0.01 min

Lab File: VY000501.D

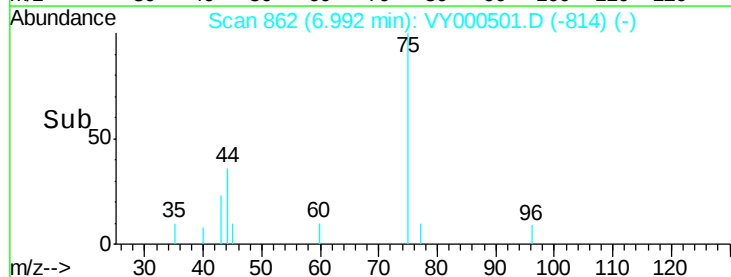
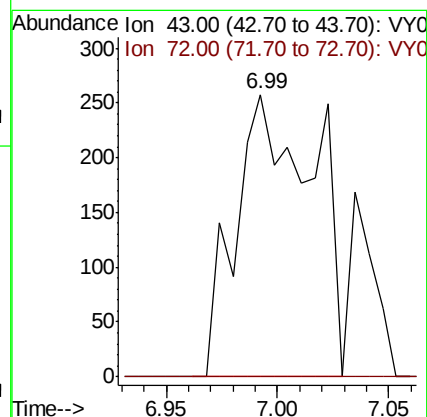
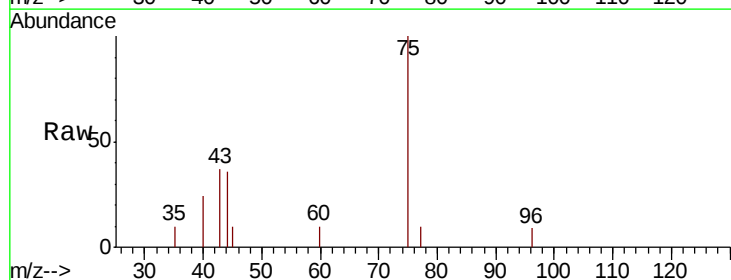
Acq: 31 Oct 2019 13:29

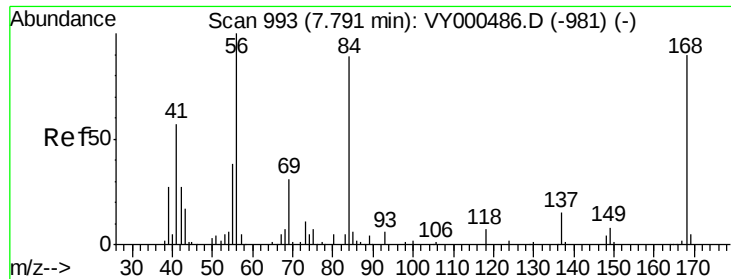
Tgt Ion: 43 Resp: 627

Ion Ratio Lower Upper

43 100

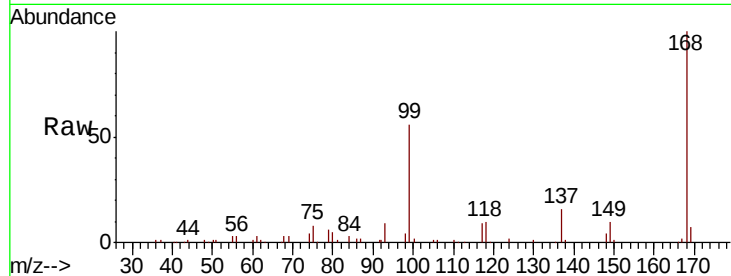
72 0.0 20.9 31.3#



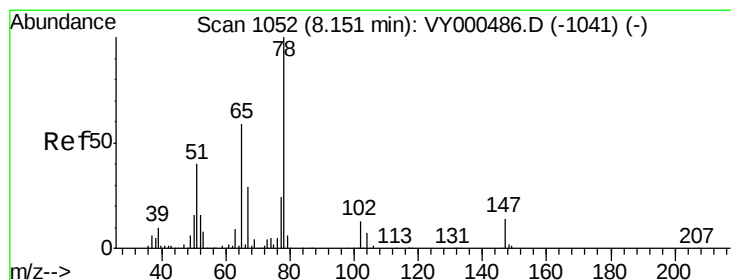
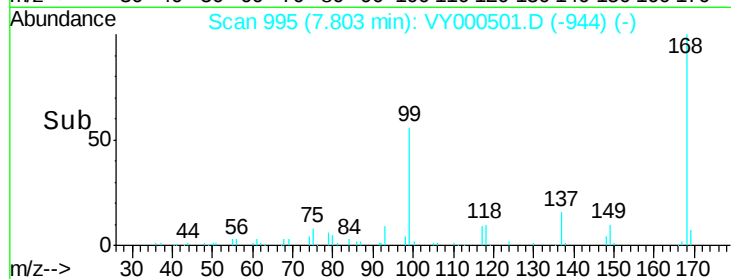
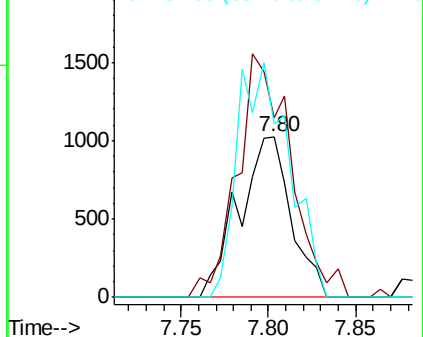


#31
Cyclohexane
Concen: 1.185 ug/l
RT: 7.80 min Scan# 995
Delta R.T. 0.01 min
Lab File: VY000501.D
Acq: 31 Oct 2019 13:29

Tot Ion: 56 Resp: 2142
Ion Ratio Lower Upper
56 100
69 111.4 25.0 37.6#
84 107.5 71.4 107.2#

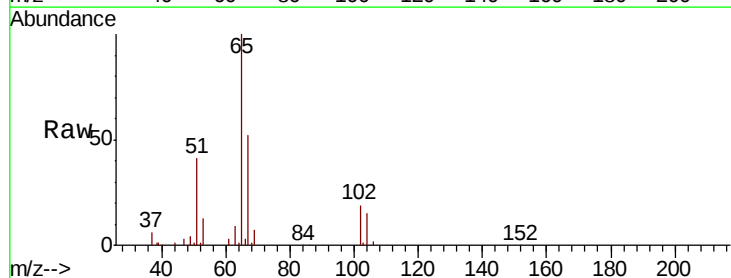


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

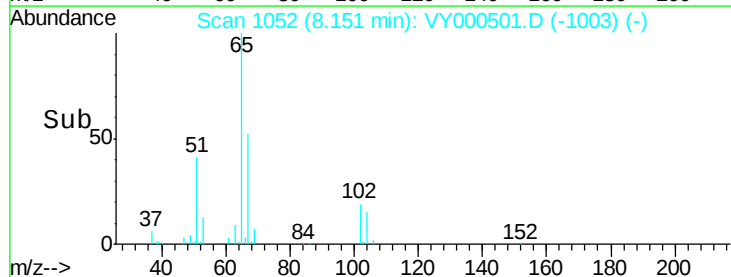
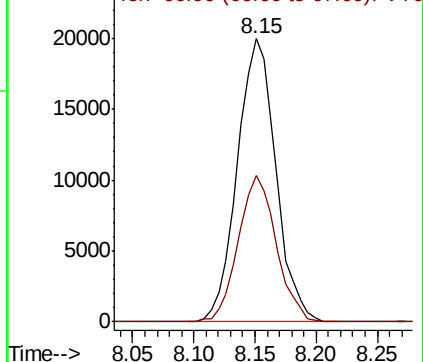


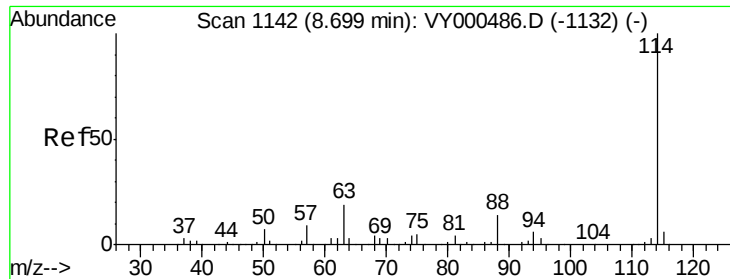
#33
1,2-Dichloroethane-d4
Concen: 46.774 ug/l
RT: 8.15 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VY000501.D
Acq: 31 Oct 2019 13:29

Tgt Ion: 65 Resp: 43686
Ion Ratio Lower Upper
65 100
67 50.9 0.0 107.2



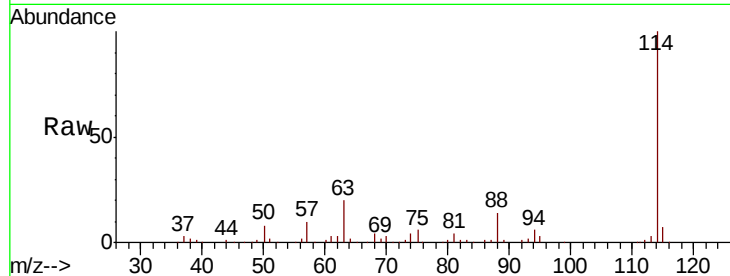
Abundance Ion 64.90 (64.60 to 65.60): VY0
Ion 66.90 (66.60 to 67.60): VY0



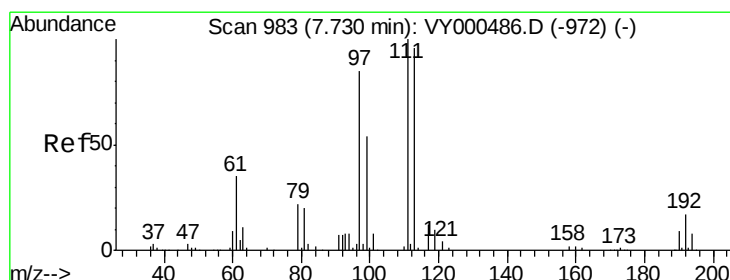
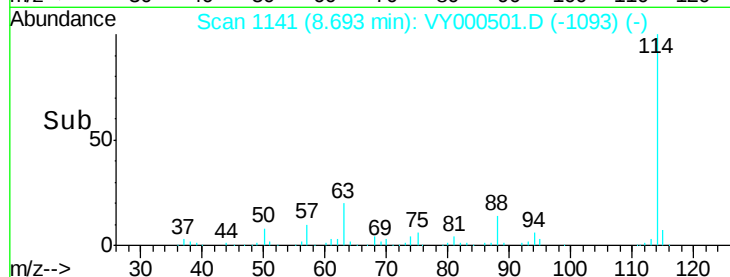
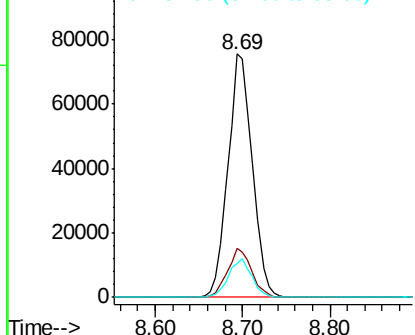


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1141
 Delta R.T. -0.01 min
 Lab File: VY000501.D
 Acq: 31 Oct 2019 13:29

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	38.0
88	13.7	0.0	28.6

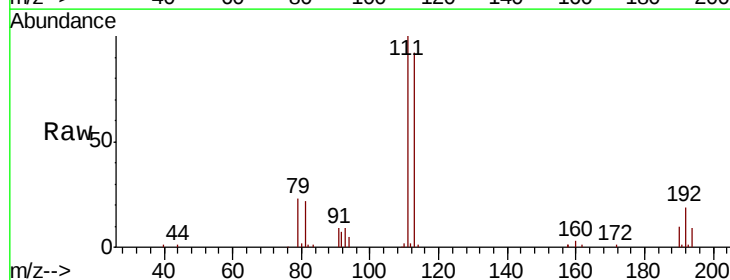


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VY0
 Ion 87.90 (87.60 to 88.60): VY0

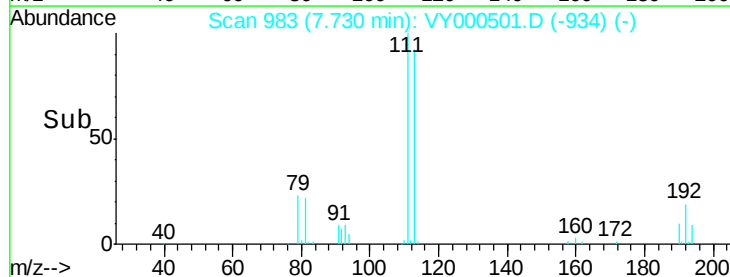
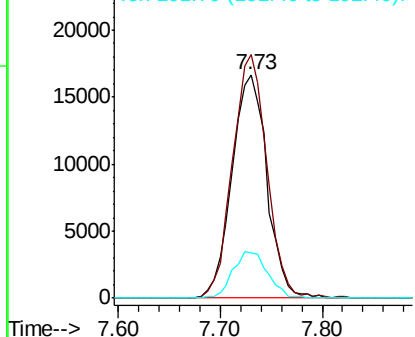


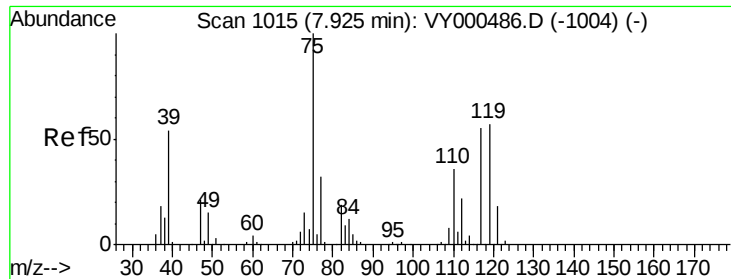
#35
 Dibromofluoromethane
 Concen: 46.042 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. 0.00 min
 Lab File: VY000501.D
 Acq: 31 Oct 2019 13:29

Tgt Ion	Ratio	Lower	Upper
113	100		
111	107.1	81.7	122.5
192	20.7	15.0	22.4



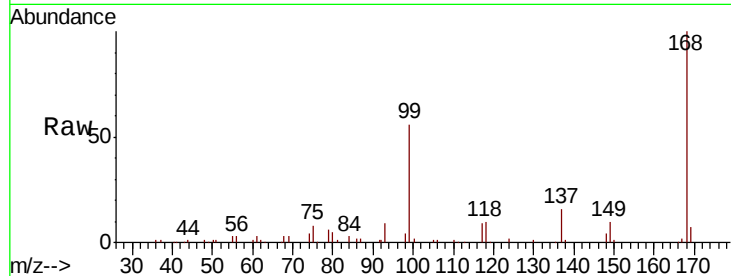
Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36
 1,1-Dichloropropene
 Concen: 5.497 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.12 min
 Lab File: VY000501.D
 Acq: 31 Oct 2019 13:29

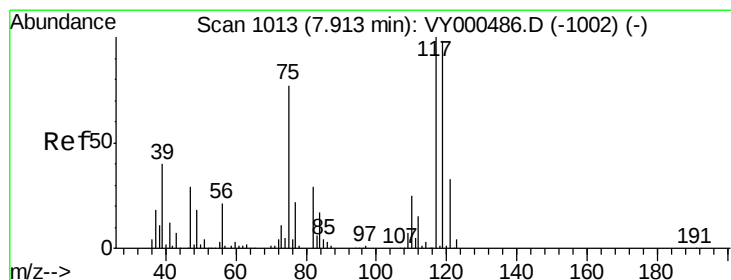
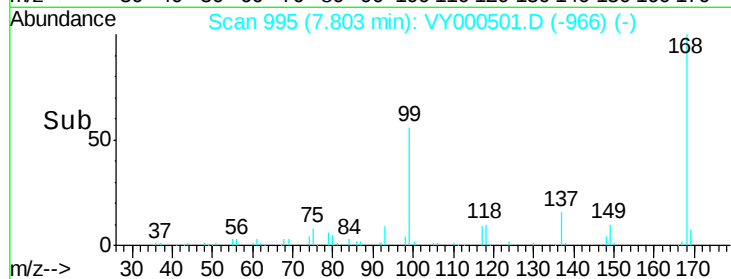
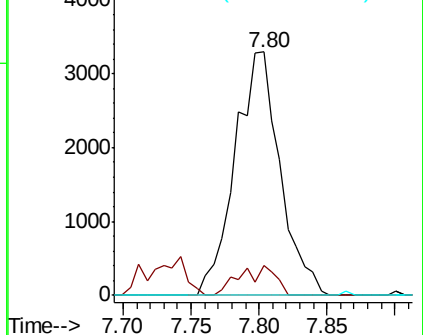
Tot Ion	Ratio	Lower	Upper
75	100		
110	5.2	18.1	54.1#
77	0.0	25.0	37.6#



Abundance Ion 74.90 (74.60 to 75.60): VY000501.D (-966) (-)

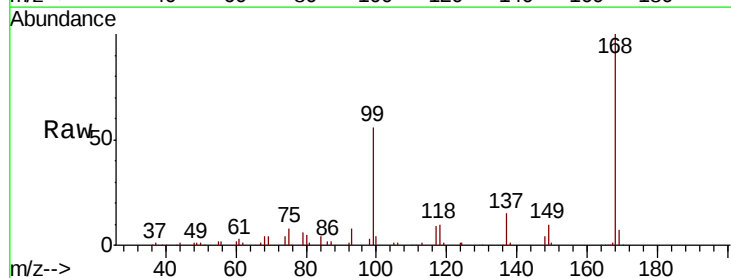
Ion 109.90 (109.60 to 110.60): VY000501.D (-966) (-)

Ion 76.90 (76.60 to 77.60): VY000501.D (-966) (-)



#38
 Carbon Tetrachloride
 Concen: 6.615 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.12 min
 Lab File: VY000501.D
 Acq: 31 Oct 2019 13:29

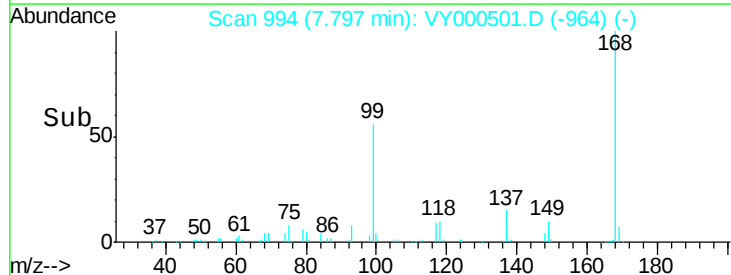
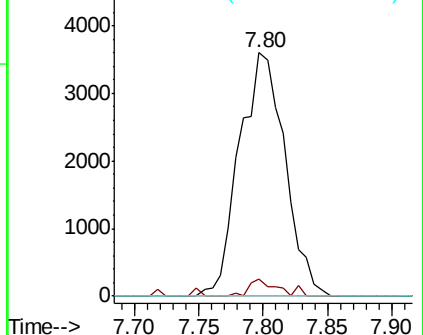
Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.1	78.0	117.0#
121	0.0	26.6	40.0#

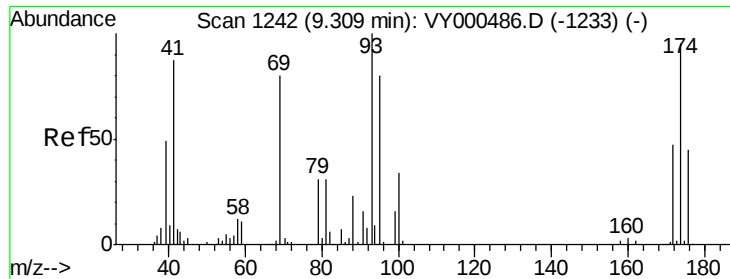


Abundance Ion 116.80 (116.50 to 117.50): VY000501.D (-964) (-)

Ion 118.80 (118.50 to 119.50): VY000501.D (-964) (-)

Ion 120.80 (120.50 to 121.50): VY000501.D (-964) (-)





#49

1,4-Dioxane

Concen: 2.839 ug/l

RT: 9.14 min Scan# 1214

Delta R.T. -0.17 min

Lab File: VY000501.D

Acq: 31 Oct 2019 13:29

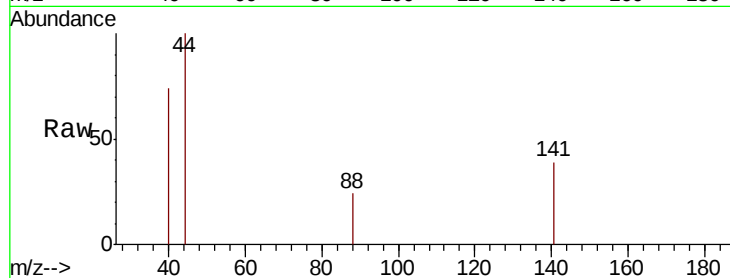
Tot Ion: 88 Resp: 21

Ion Ratio Lower Upper

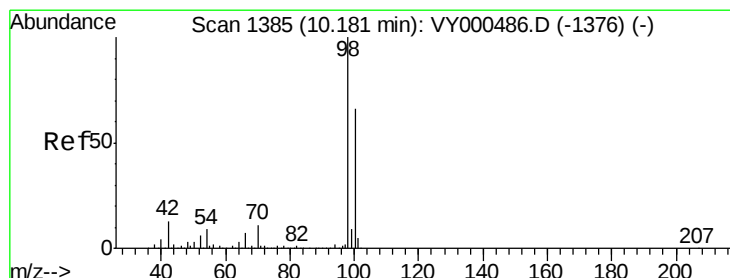
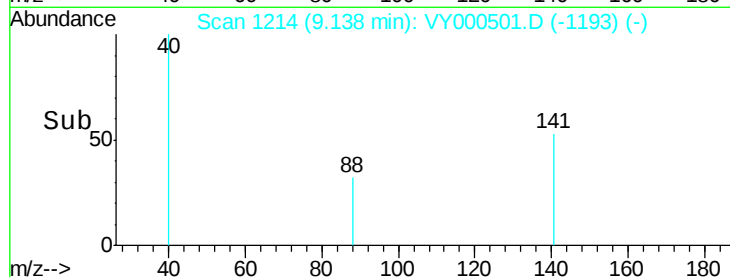
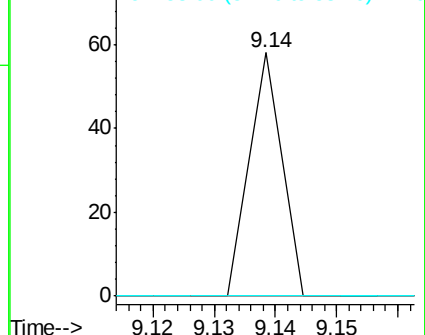
88 100

43 0.0 25.1 37.7#

58 0.0 50.6 75.8#



Abundance Ion 88.00 (87.70 to 88.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0



#50

Toluene-d8

Concen: 50.560 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY000501.D

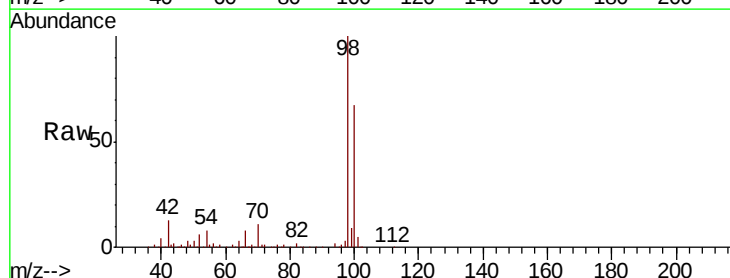
Acq: 31 Oct 2019 13:29

Tgt Ion: 98 Resp: 164986

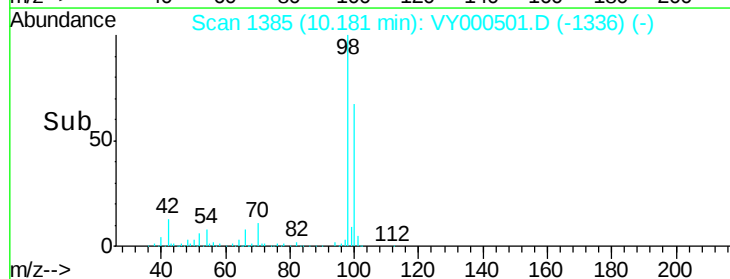
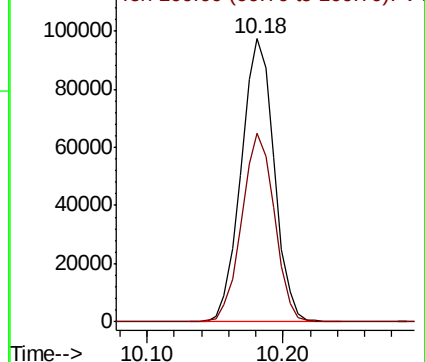
Ion Ratio Lower Upper

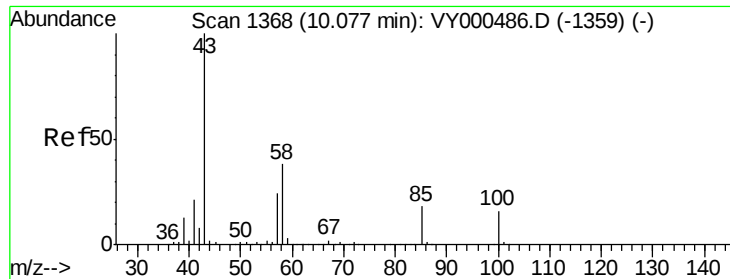
98 100

100 66.2 52.9 79.3



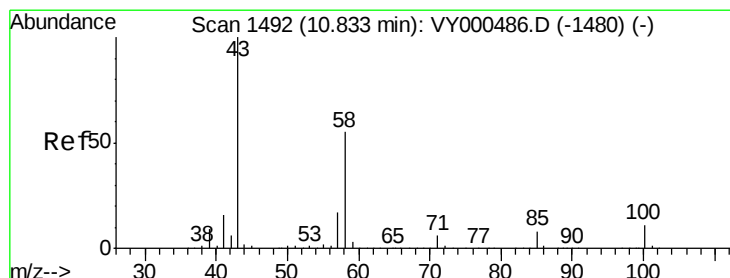
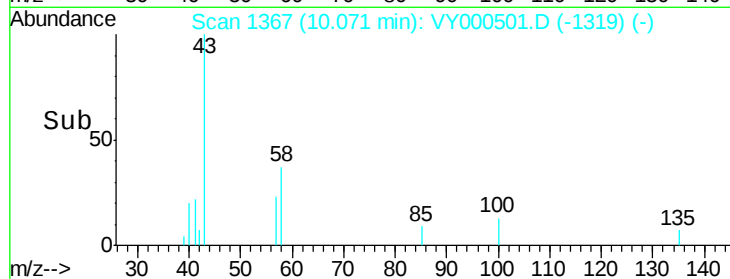
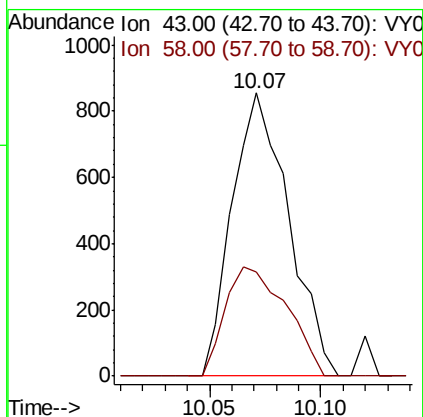
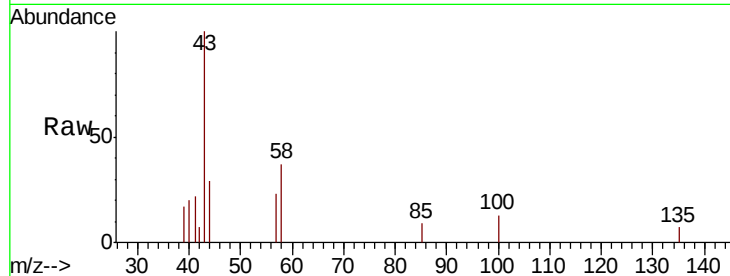
Abundance Ion 98.00 (97.70 to 98.70): VY0
Ion 100.00 (99.70 to 100.70): VY0





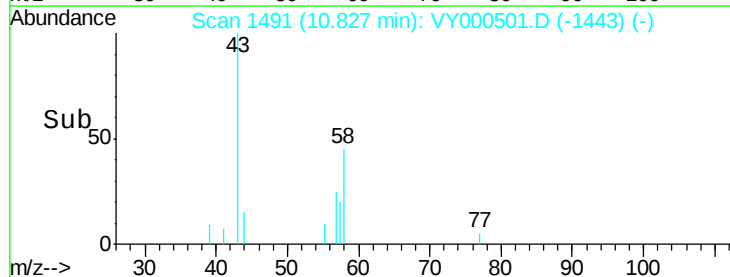
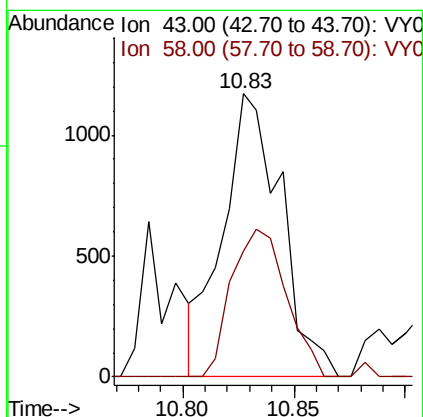
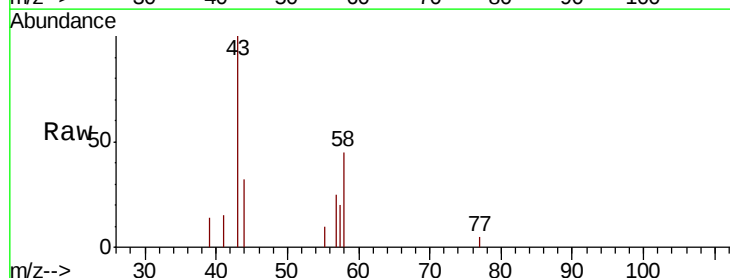
#51
4-Methyl-2-Pentanone
Concen: 1.841 ug/l
RT: 10.07 min Scan# 1367
Delta R.T. -0.01 min
Lab File: VY000501.D
Acq: 31 Oct 2019 13:29

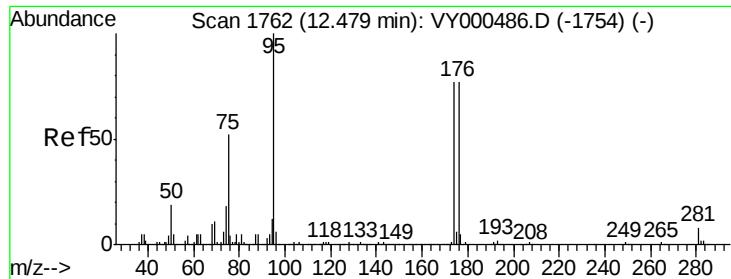
Tot Ion: 43 Resp: 1512
Ion Ratio Lower Upper
43 100
58 41.7 30.2 45.4



#59
2-Hexanone
Concen: 3.565 ug/l
RT: 10.83 min Scan# 1491
Delta R.T. -0.01 min
Lab File: VY000501.D
Acq: 31 Oct 2019 13:29

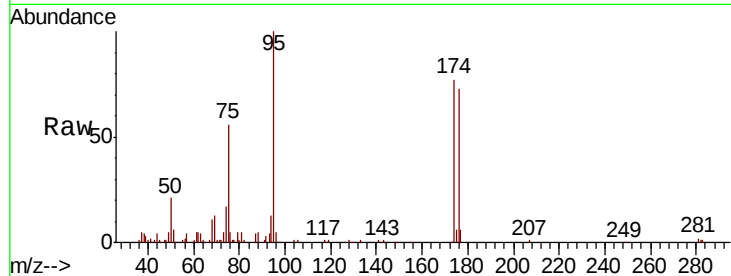
Tgt Ion: 43 Resp: 2133
Ion Ratio Lower Upper
43 100
58 49.4 27.1 81.3





#62
4-Bromofluorobenzene
Concen: 36.551 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VY000501.D
Acq: 31 Oct 2019 13:29

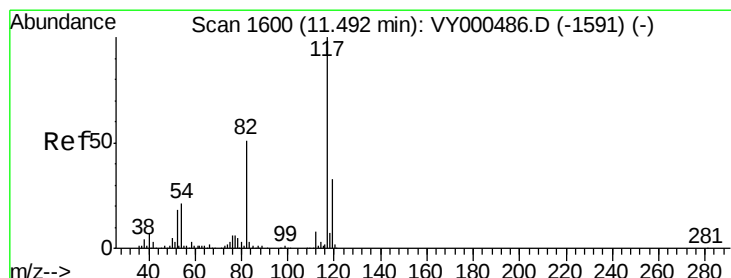
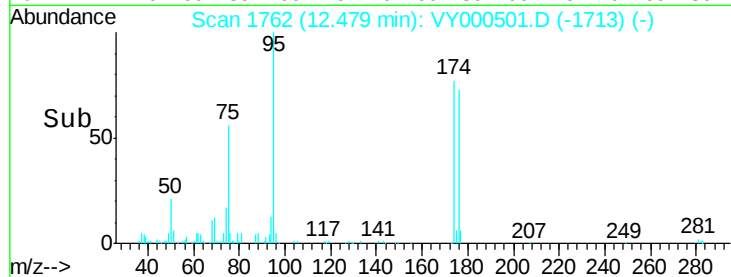
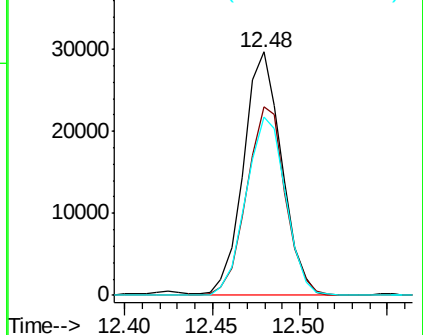
Tot Ion	95	Resp	45406
Ion Ratio	100		
Lower			
Upper			
174	78.3	0.0	161.6
176	75.7	0.0	157.8



Abundance Ion 94.90 (94.60 to 95.60): VY000501.D (-1713) (-)

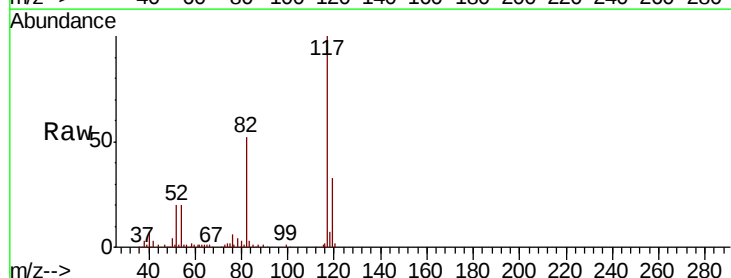
Ion 173.80 (173.50 to 174.50): VY000501.D (-1713) (-)

Ion 175.80 (175.50 to 176.50): VY000501.D (-1713) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VY000501.D
Acq: 31 Oct 2019 13:29

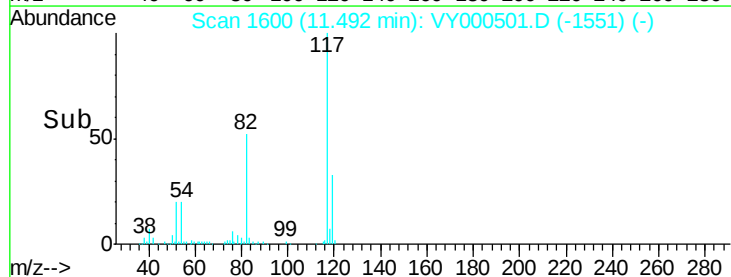
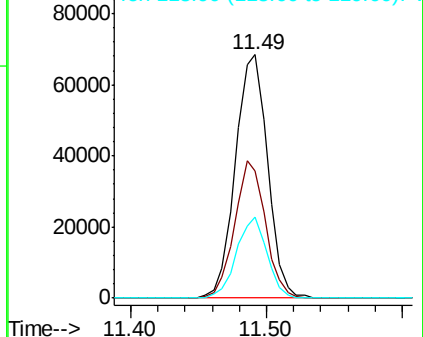
Tgt Ion	117	Resp	112905
Ion Ratio	100		
Lower			
Upper			
82	52.3	40.8	61.2
119	33.3	26.2	39.2

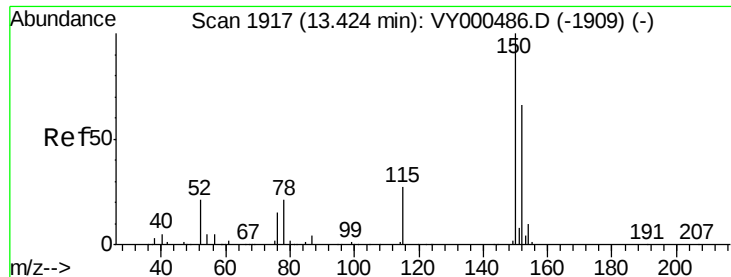


Abundance Ion 116.90 (116.60 to 117.60): VY000501.D (-1551) (-)

Ion 82.00 (81.70 to 82.70): VY000501.D (-1551) (-)

Ion 118.90 (118.60 to 119.60): VY000501.D (-1551) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VY000501.D

Acq: 31 Oct 2019 13:29

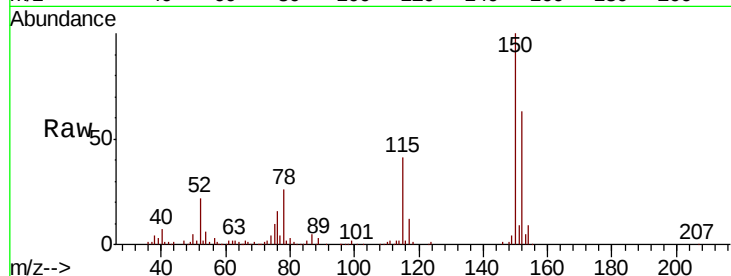
Tot Ion:152 Resp: 41002

Ion Ratio Lower Upper

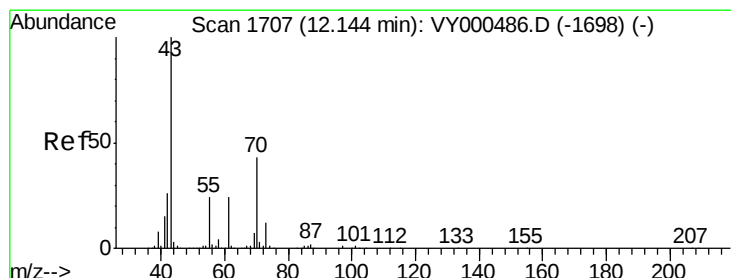
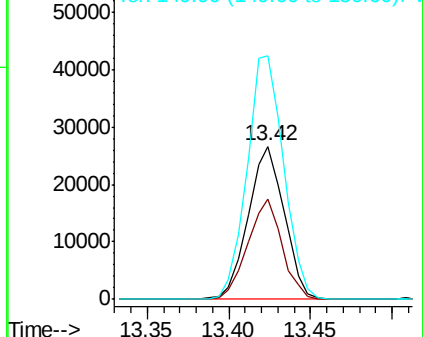
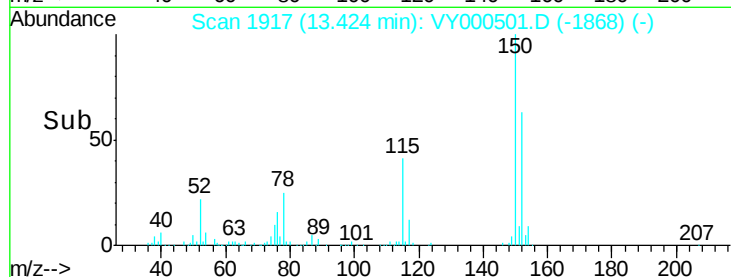
152 100

115 62.5 29.1 87.4

150 162.3 0.0 348.8



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-ethyl acetate

Concen: 2.283 ug/l

RT: 12.14 min Scan# 1707

Delta R.T. 0.00 min

Lab File: VY000501.D

Acq: 31 Oct 2019 13:29

Tgt Ion: 43 Resp: 1981

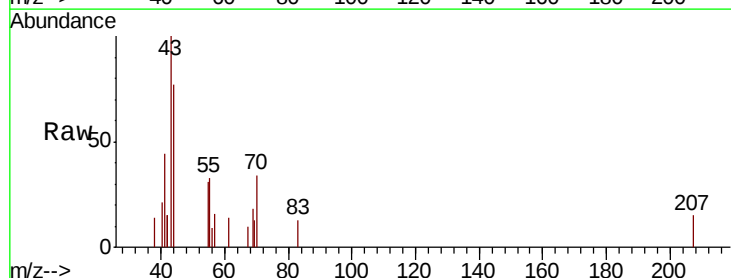
Ion Ratio Lower Upper

43 100

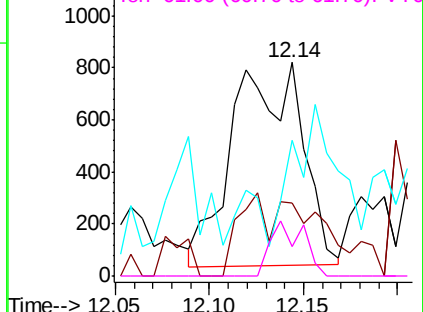
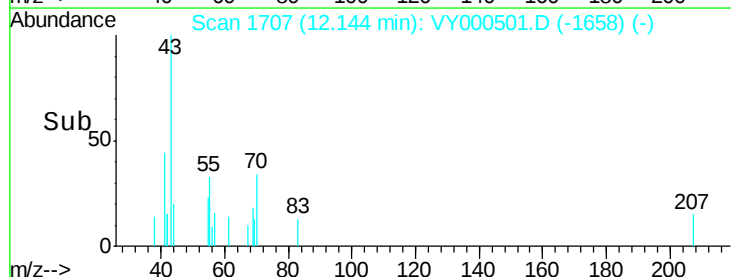
70 0.0 33.1 49.7#

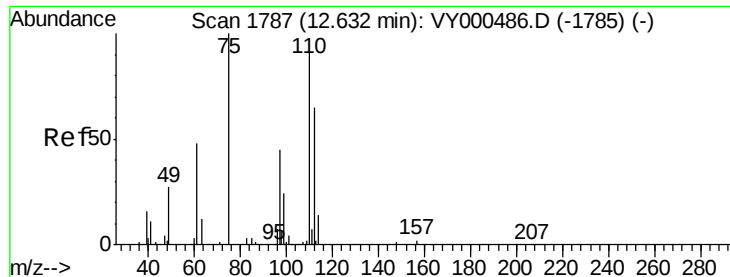
55 43.6 18.0 27.0#

61 12.9 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

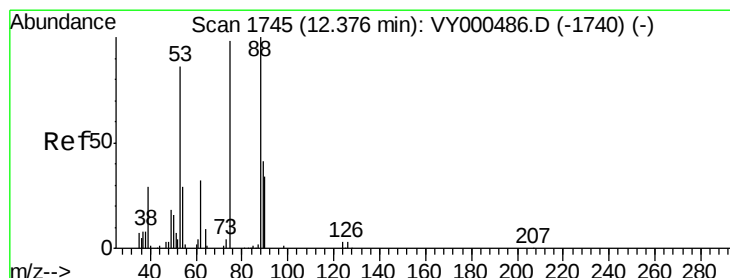
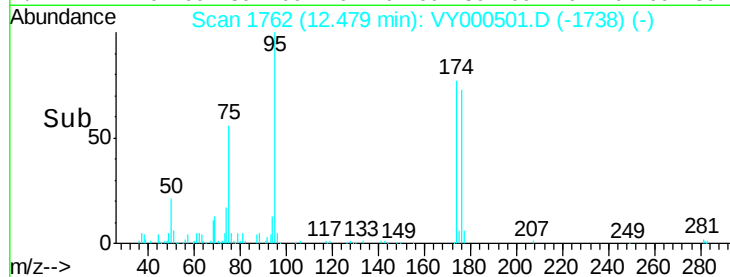
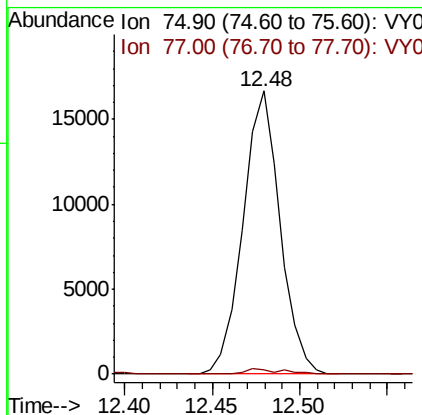
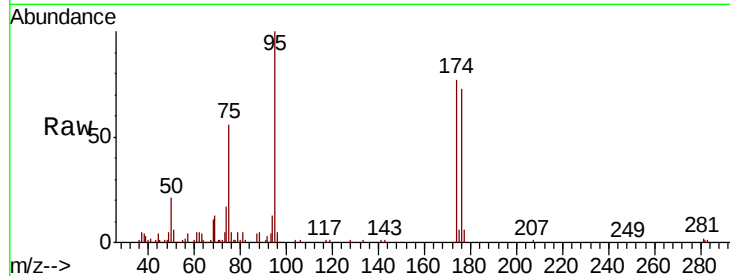




#76

1,2,3-Trichloropropane
Concen: 52.771 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.15 min
Lab File: VY000501.D
Acq: 31 Oct 2019 13:29

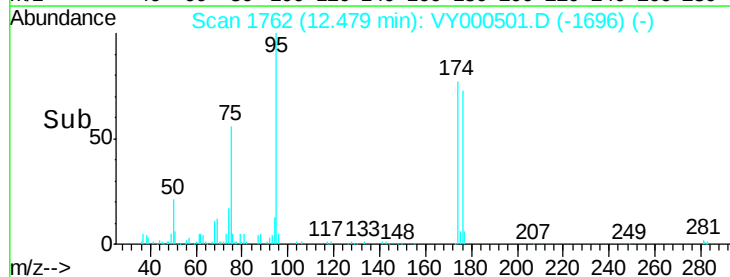
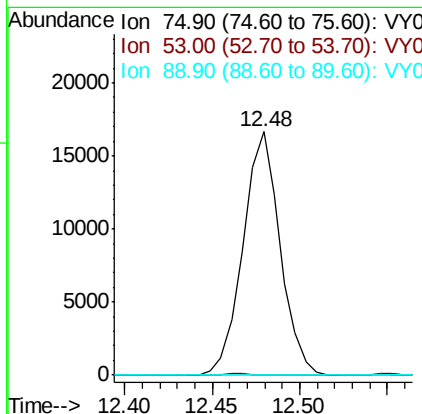
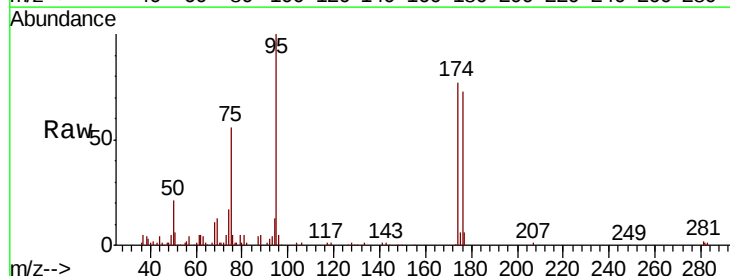
Tot Ion: 75 Resp: 24637
Ion Ratio Lower Upper
75 100
77 1.9 0.0 0.0#

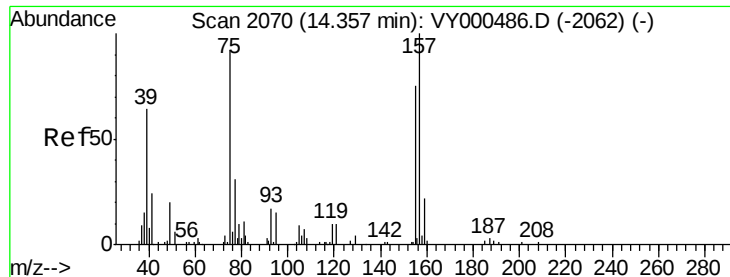


#81

trans-1,4-Dichloro-2-butene
Concen: 118.320 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. 0.10 min
Lab File: VY000501.D
Acq: 31 Oct 2019 13:29

Tgt Ion: 75 Resp: 24637
Ion Ratio Lower Upper
75 100
53 0.3 73.2 109.8#
89 0.0 35.9 53.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.177 ug/l

RT: 14.36 min Scan# 2071

Delta R.T. 0.01 min

Lab File: VY000501.D

Acq: 31 Oct 2019 13:29

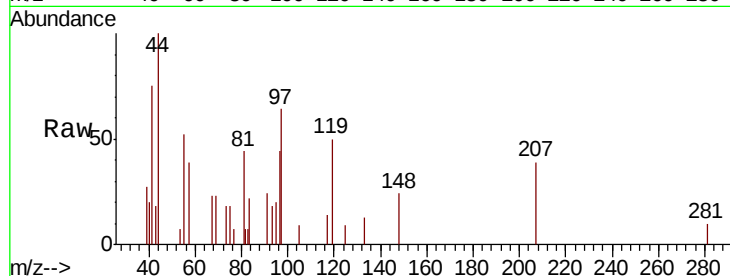
Tot Ion: 75 Resp: 125

Ion Ratio Lower Upper

75 100

155 0.0 42.4 127.1#

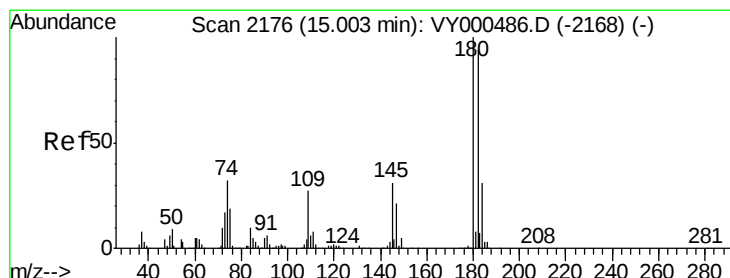
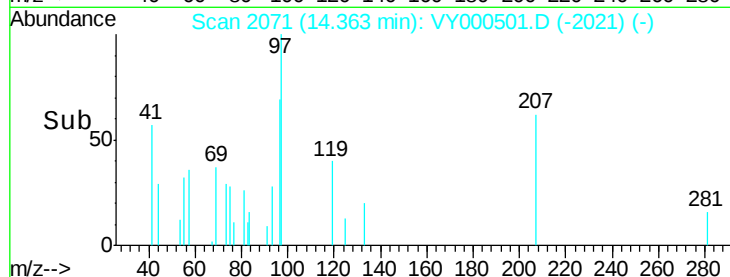
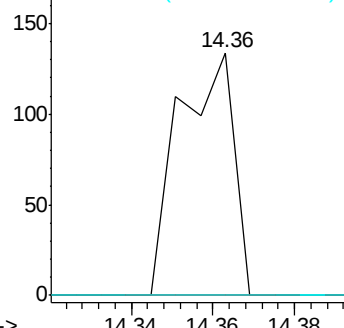
157 0.0 55.1 165.3#



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: 1.732 ug/l

RT: 15.01 min Scan# 2177

Delta R.T. 0.01 min

Lab File: VY000501.D

Acq: 31 Oct 2019 13:29

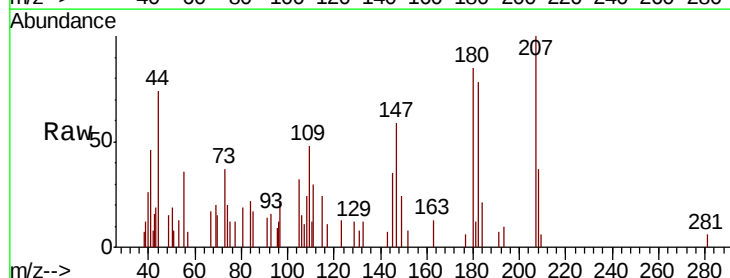
Tgt Ion: 180 Resp: 1440

Ion Ratio Lower Upper

180 100

182 105.5 47.8 143.4

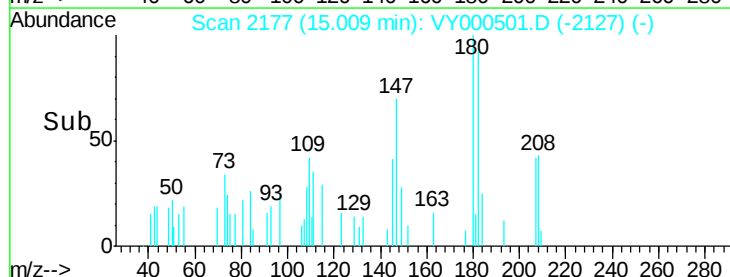
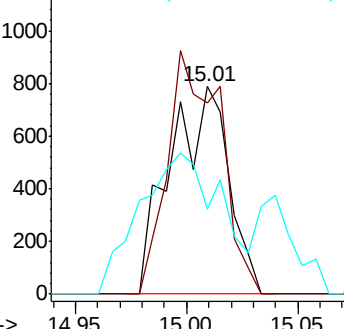
145 94.9 16.0 47.9#

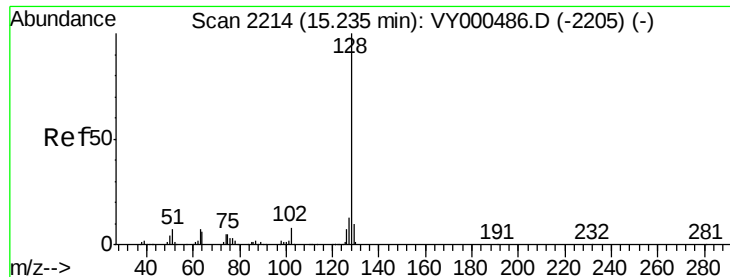


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

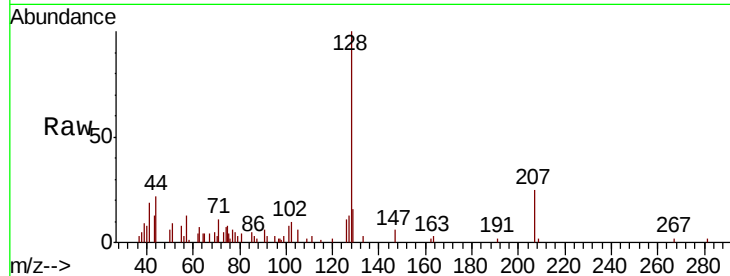
Ion 144.80 (144.50 to 145.50): V



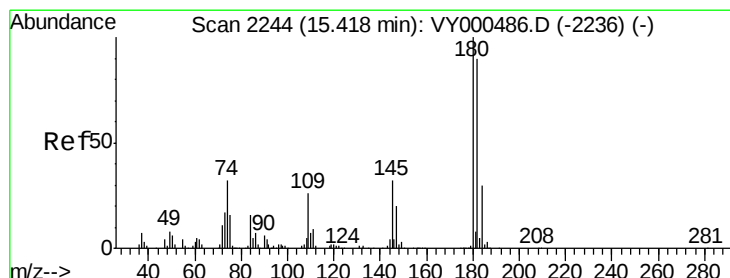
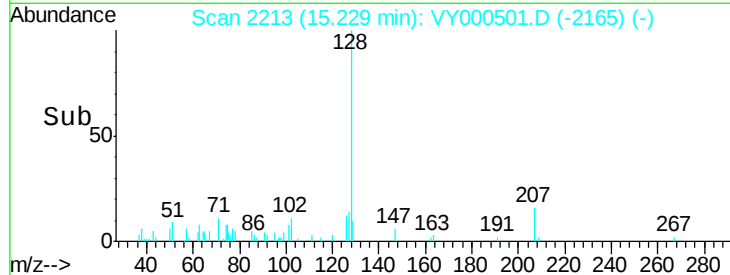
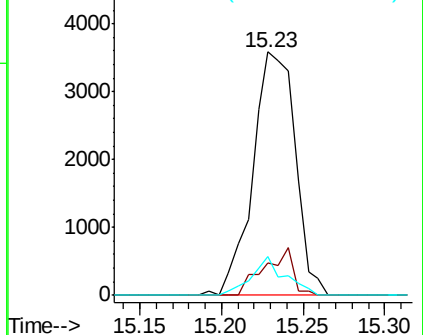


#95
Naphthalene
Concen: 3.493 ug/l
RT: 15.23 min Scan# 2213
Delta R.T. -0.01 min
Lab File: VY000501.D
Acq: 31 Oct 2019 13:29

Tot Ion:128 Resp: 6448
Ion Ratio Lower Upper
128 100
127 13.5 9.8 14.6
129 12.7 8.7 13.1

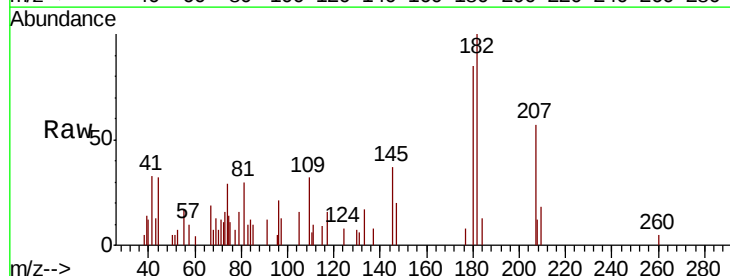


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 1.815 ug/l
RT: 15.42 min Scan# 2244
Delta R.T. 0.00 min
Lab File: VY000501.D
Acq: 31 Oct 2019 13:29

Tgt Ion:180 Resp: 1354
Ion Ratio Lower Upper
180 100
182 126.5 47.4 142.3
145 63.2 15.7 47.0#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

