

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY020320\
 Data File : VY001478.D
 Acq On : 03 Feb 2020 17:13
 Operator : SY/MD
 Sample : L1383-09
 Misc : 4.42G/5ML/MSVOA Y/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-C

Quant Time: Feb 04 04:21:38 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	7.81	168	155230	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.71	114	277921	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	230128	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	85269	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.16	65	83445	49.40	ug/l	-0.01
Spiked Amount			Recovery	=	98.80%	
35) Dibromofluoromethane	7.74	113	81631	50.04	ug/l	0.00
Spiked Amount			Recovery	=	100.08%	
50) Toluene-d8	10.19	98	320631	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
62) 4-Bromofluorobenzene	12.49	95	106552	42.22	ug/l	0.00
Spiked Amount			Recovery	=	84.44%	

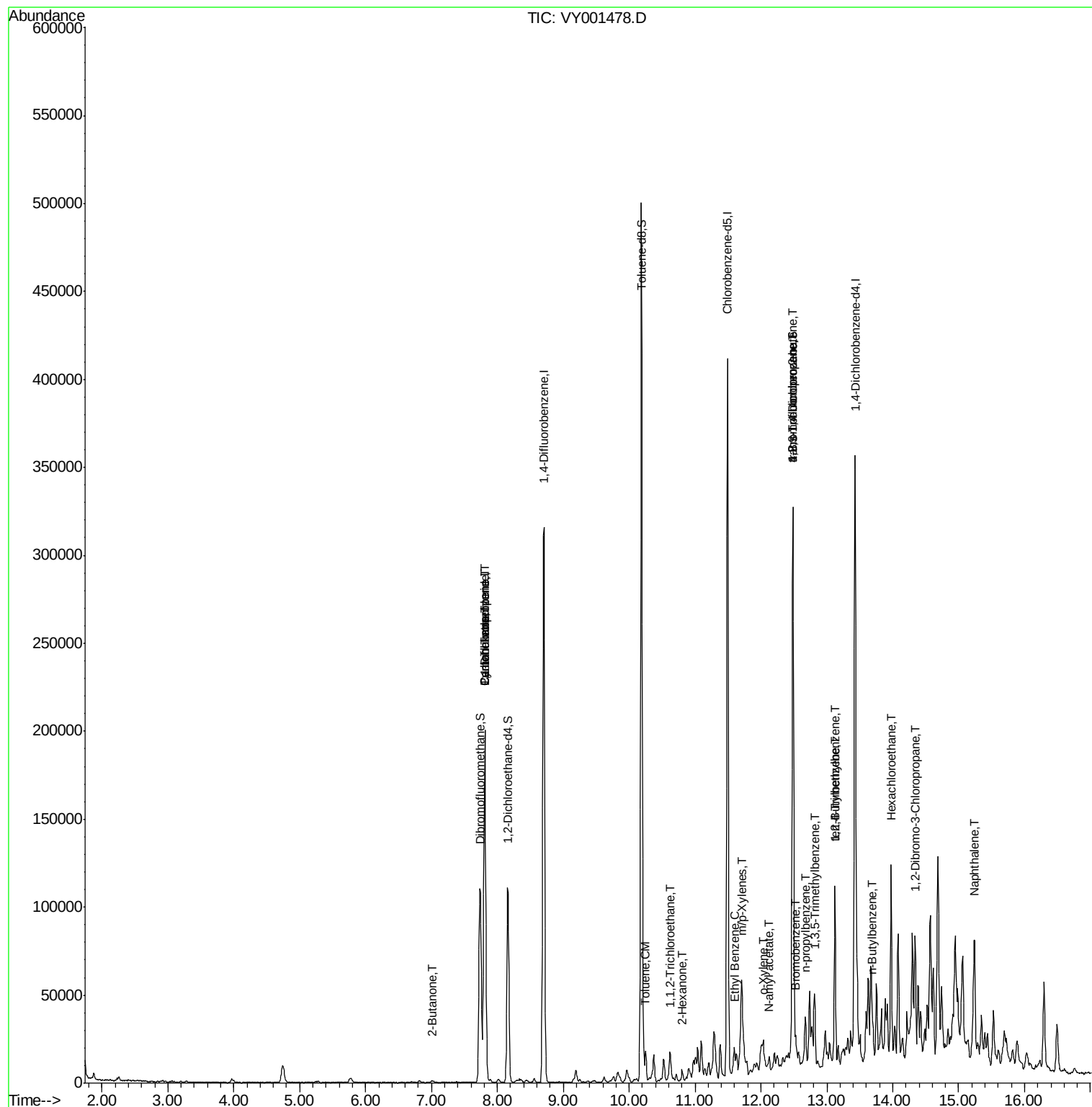
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.98	59	59	Below Cal	#	74
20) Methylene Chloride	4.74	84	7300	Below Cal	#	86
25) 2-Butanone	7.01	43	1158	1.575	ug/l #	70
31) Cyclohexane	7.81	56	3653	1.118	ug/l #	1
36) 1,1-Dichloropropene	7.81	75	11891	4.529	ug/l #	50
38) Carbon Tetrachloride	7.80	117	15764	6.737	ug/l #	16
52) Toluene	10.25	92	7142	1.431	ug/l	95
55) 1,1,2-Trichloroethane	10.62	97	6444	4.086	ug/l #	22
59) 2-Hexanone	10.80	43	2715	2.428	ug/l #	25
67) Ethyl Benzene	11.60	91	9502	1.063	ug/l	96
68) m/p-Xylenes	11.70	106	12610	3.777	ug/l	97
69) o-Xylene	12.03	106	3578	1.114	ug/l	84
74) N-amyl acetate	12.13	43	3272	1.486	ug/l #	54
76) 1,2,3-Trichloropropane	12.49	75	50781	49.422	ug/l #	100
77) Bromobenzene	12.53	156	10373	6.960	ug/l #	1
78) n-propylbenzene	12.67	91	20177	2.491	ug/l	98
80) 1,3,5-Trimethylbenzene	12.81	105	14862	2.646	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.49	75	50781	93.526	ug/l #	15
83) tert-Butylbenzene	13.12	119	7207	1.522	ug/l #	72
84) 1,2,4-Trimethylbenzene	13.12	105	55946	9.922	ug/l	99
89) n-Butylbenzene	13.70	91	13927	2.335	ug/l #	71
90) Hexachloroethane	13.97	117	4684	4.169	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.34	75	350	1.408	ug/l #	15
95) Naphthalene	15.24	128	47848	11.779	ug/l	94

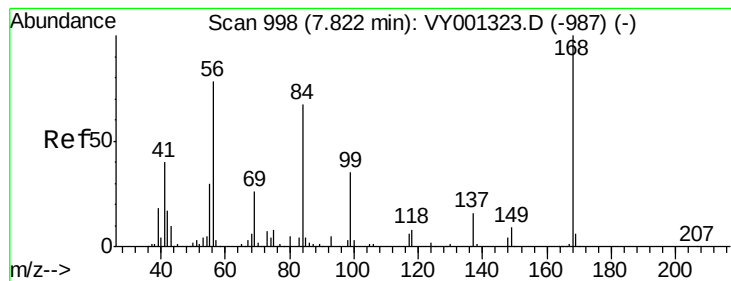
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.01 min

Lab File: VY001478.D

Acq: 03 Feb 2020 17:13

Instrument :

MSVOA_Y

ClientSampleId :

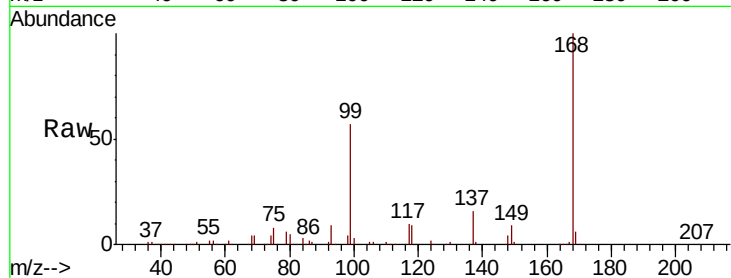
TP-C

Tot Ion:168 Resp: 155230

Ion Ratio Lower Upper

168 100

99 57.5 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) (-)

7.81

60000

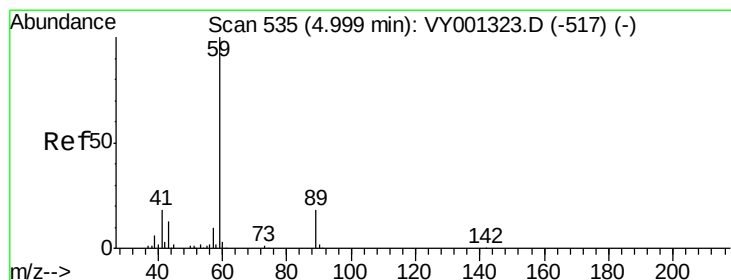
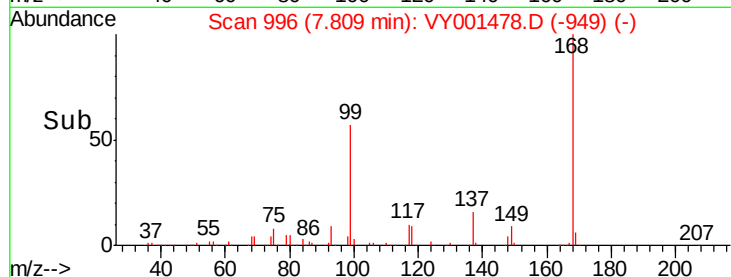
40000

20000

0

7.70 7.80 7.90

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.98 min Scan# 532

Delta R.T. -0.02 min

Lab File: VY001478.D

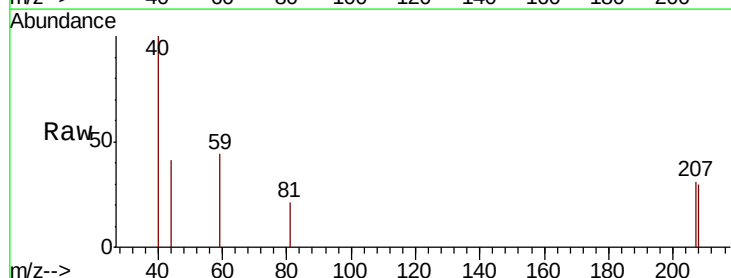
Acq: 03 Feb 2020 17:13

Tgt Ion: 59 Resp: 59

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY001323.D (-517) (-)

Ion 57.00 (56.70 to 57.70): VY001323.D (-517) (-)

4.98

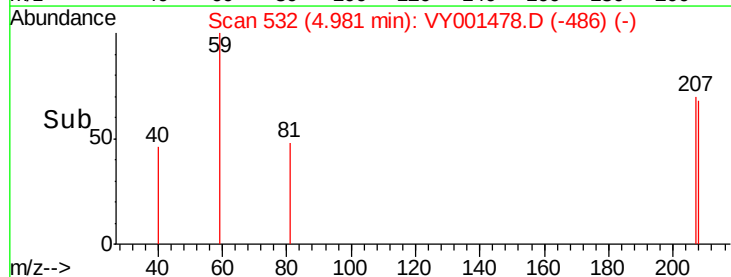
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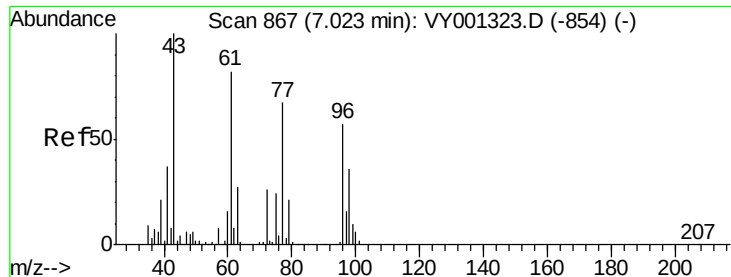
50

0

4.97 4.98 4.99 5.00

Time-->

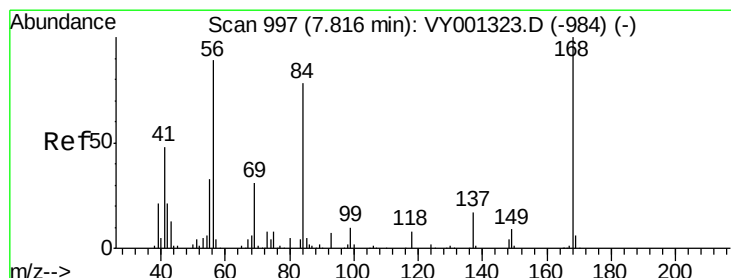
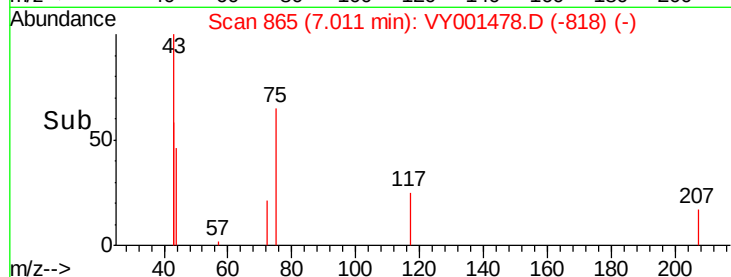
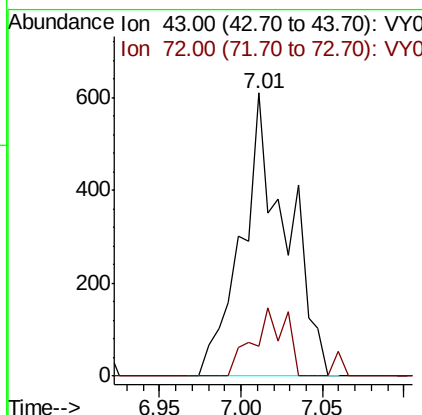
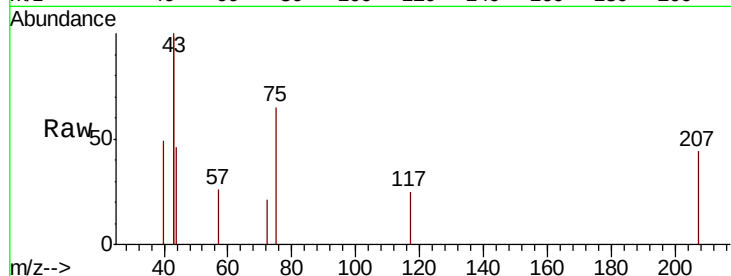




#25
2-Butanone
Concen: 1.575 ug/l
RT: 7.01 min Scan# 865
Delta R.T. -0.01 min
Lab File: VY001478.D
Acq: 03 Feb 2020 17:13

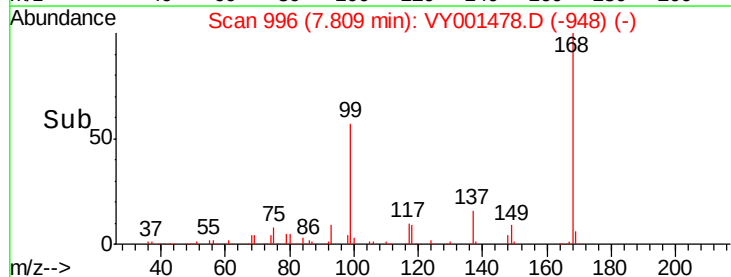
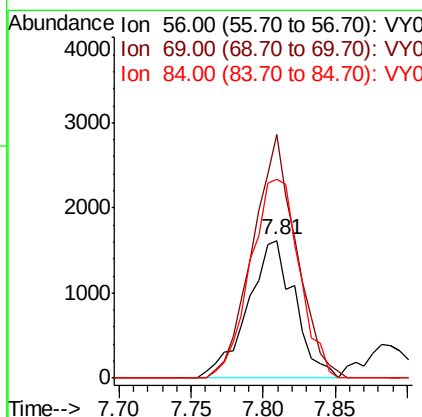
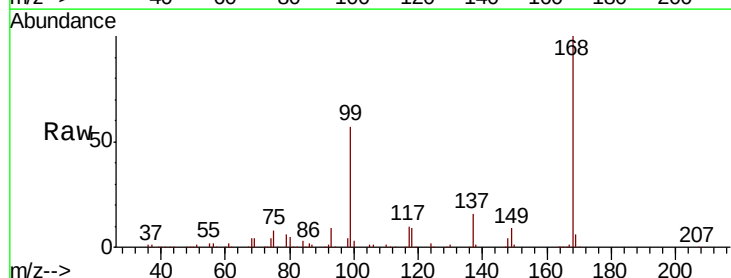
Instrument :
MSVOA_Y
ClientSampleId :
TP-C

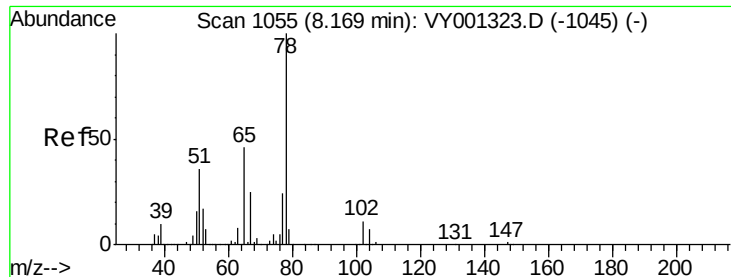
Tot Ion: 43 Resp: 1158
Ion Ratio Lower Upper
43 100
72 10.7 20.6 31.0#



#31
Cyclohexane
Concen: 1.118 ug/l
RT: 7.81 min Scan# 996
Delta R.T. -0.01 min
Lab File: VY001478.D
Acq: 03 Feb 2020 17:13

Tgt Ion: 56 Resp: 3653
Ion Ratio Lower Upper
56 100
69 176.9 27.6 41.4#
84 144.2 69.7 104.5#

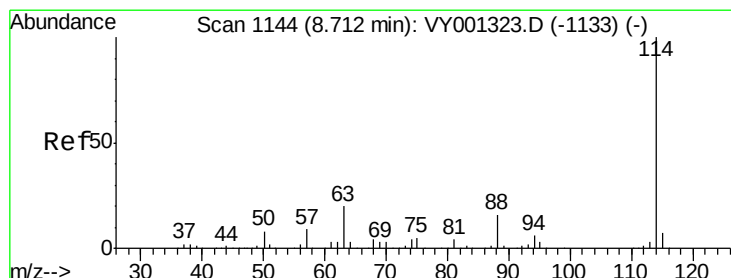
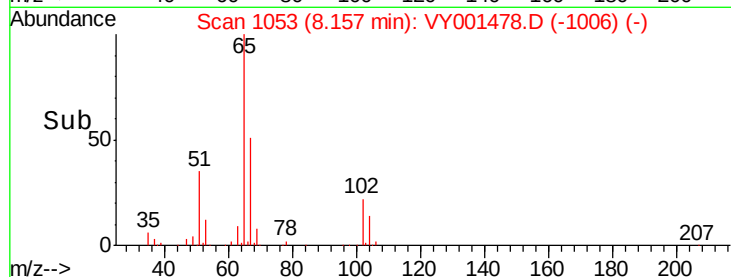
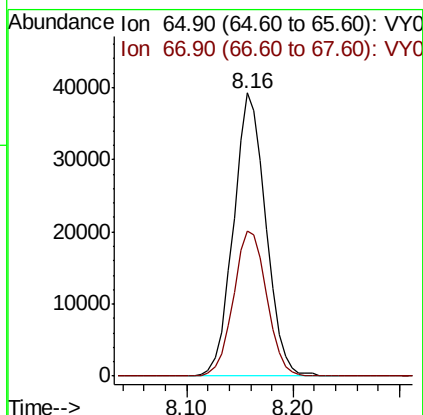
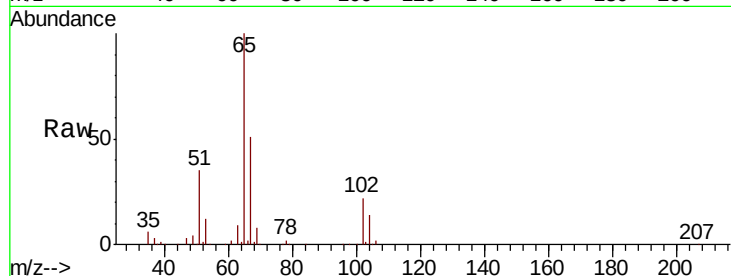




#33
 1,2-Dichloroethane-d4
 Concen: 49.402 ug/l
 RT: 8.16 min Scan# 1053
 Delta R.T. -0.01 min
 Lab File: VY001478.D
 Acq: 03 Feb 2020 17:13

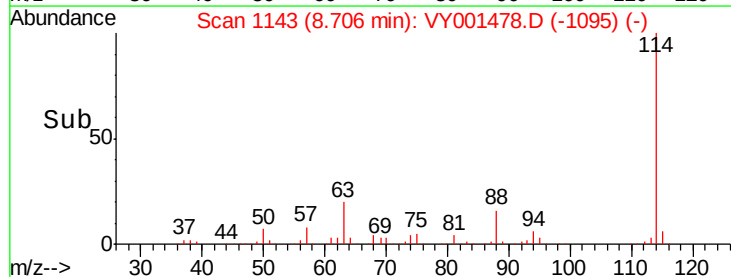
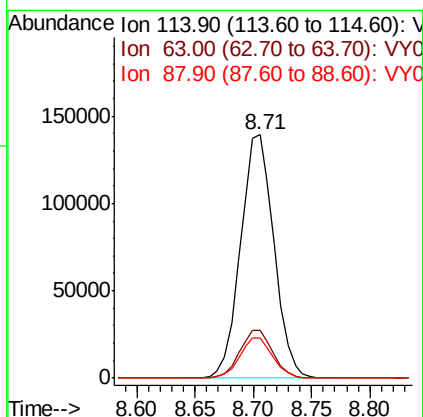
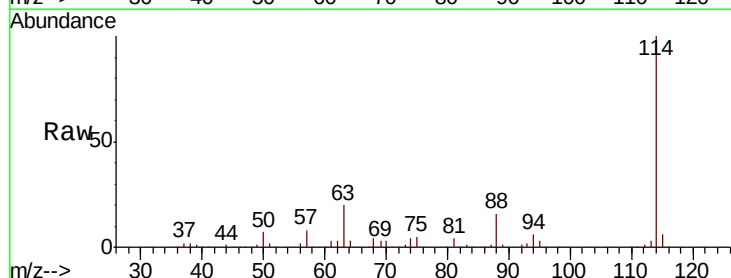
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-C

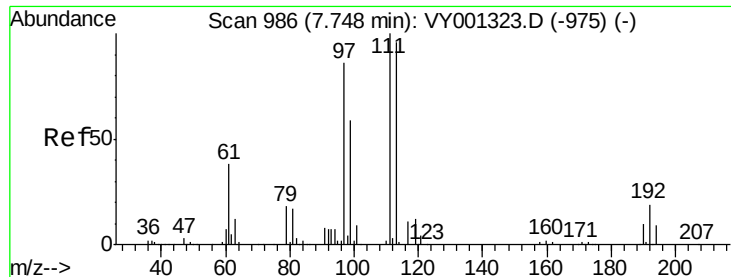
Tot Ion: 65 Resp: 83445
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1143
 Delta R.T. -0.01 min
 Lab File: VY001478.D
 Acq: 03 Feb 2020 17:13

Tgt Ion: 114 Resp: 277921
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.8
 88 16.5 0.0 31.0

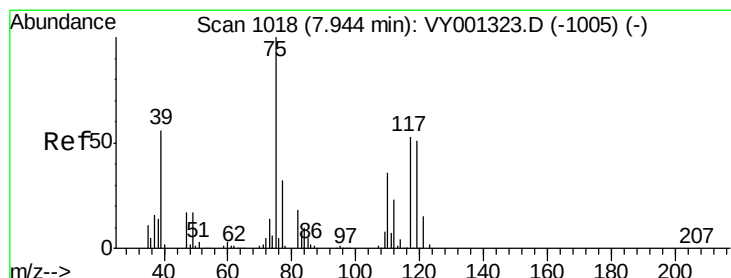
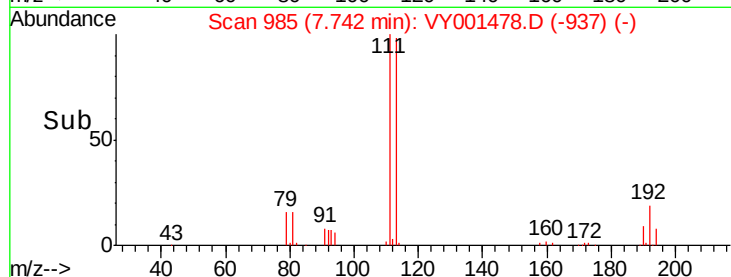
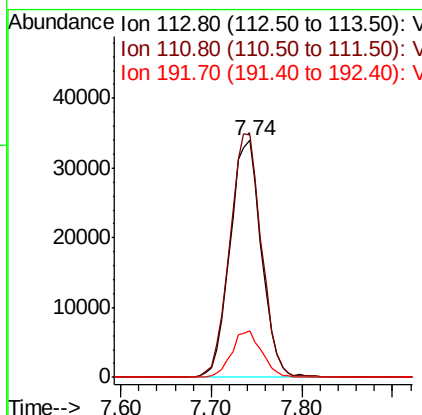
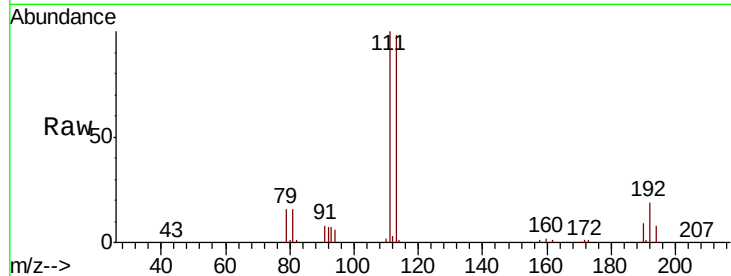




#35
 Dibromofluoromethane
 Concen: 50.045 ug/l
 RT: 7.74 min Scan# 985
 Delta R.T. -0.01 min
 Lab File: VY001478.D
 Acq: 03 Feb 2020 17:13

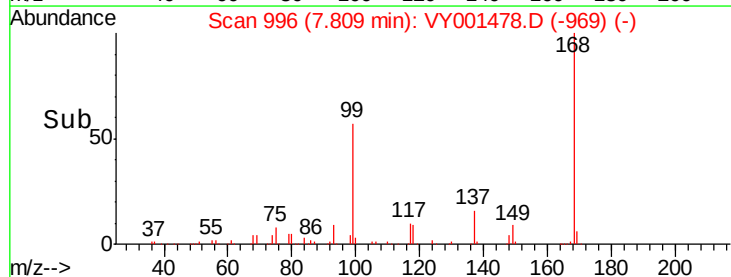
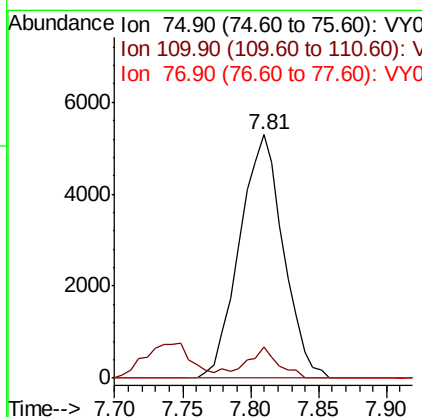
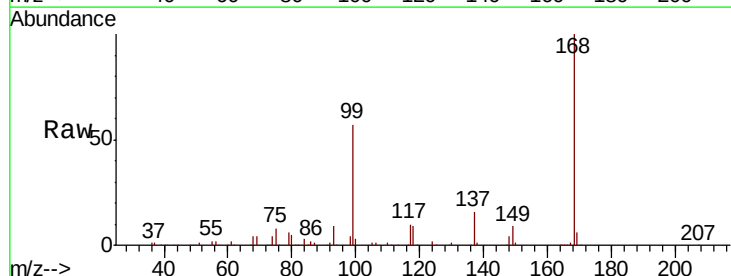
Instrument :
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 ClientSampleId :
 TP-C

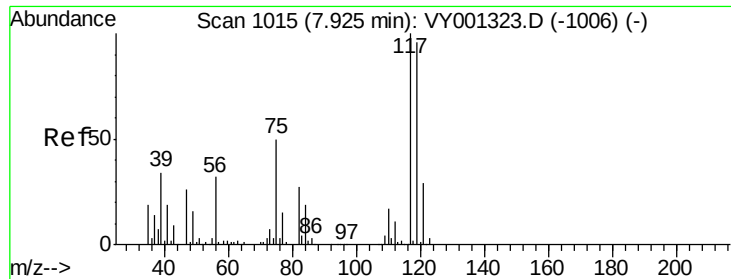
Tot Ion:113 Resp: 81631
 Ion Ratio Lower Upper
 113 100
 111 103.8 82.8 124.2
 192 18.9 15.5 23.3



#36
 1,1-Dichloropropene
 Concen: 4.529 ug/l
 RT: 7.81 min Scan# 996
 Delta R.T. -0.13 min
 Lab File: VY001478.D
 Acq: 03 Feb 2020 17:13

Tgt Ion: 75 Resp: 11891
 Ion Ratio Lower Upper
 75 100
 110 9.7 17.6 52.8#
 77 0.0 24.7 37.1#

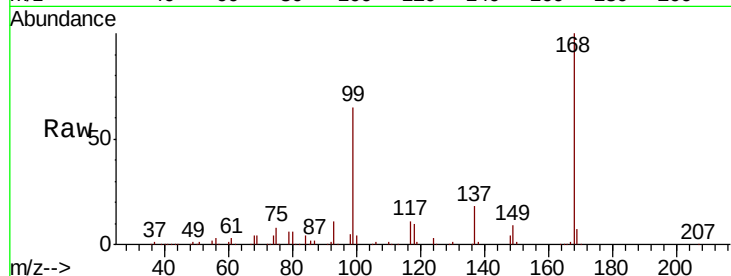




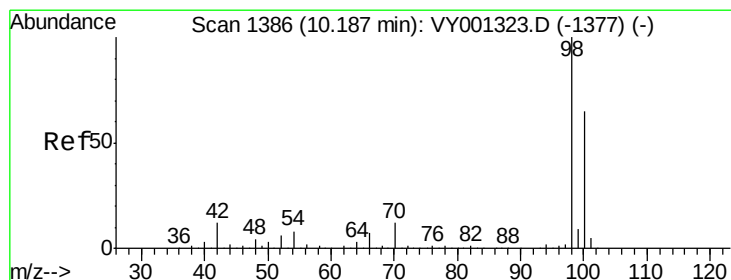
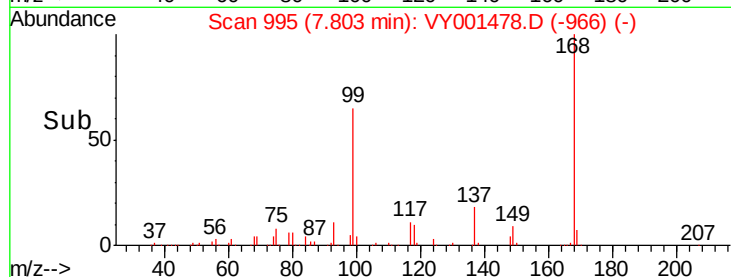
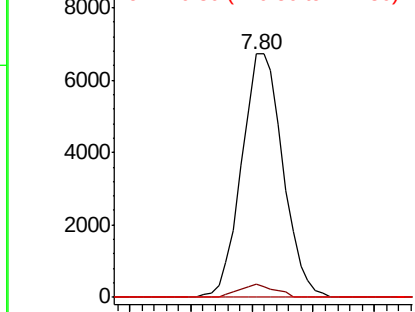
#38
Carbon Tetrachloride
Concen: 6.737 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.12 min
Lab File: VY001478.D
Acq: 03 Feb 2020 17:13

Instrument :
MSVOA_Y
ClientSampleId :
TP-C

Tot Ion:117 Resp: 15764
Ion Ratio Lower Upper
117 100
119 5.3 76.3 114.5#
121 0.0 23.5 35.3#

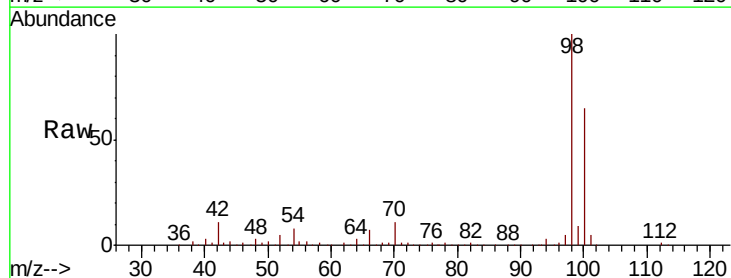


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

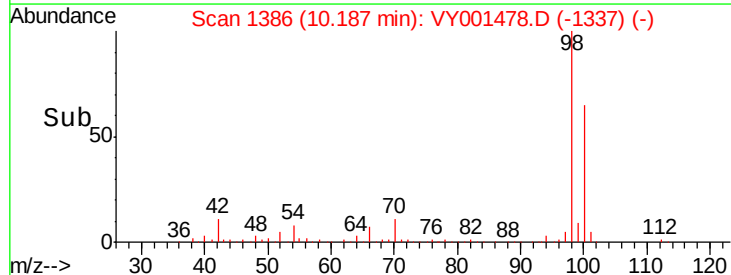
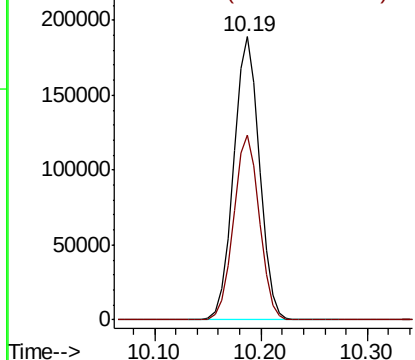


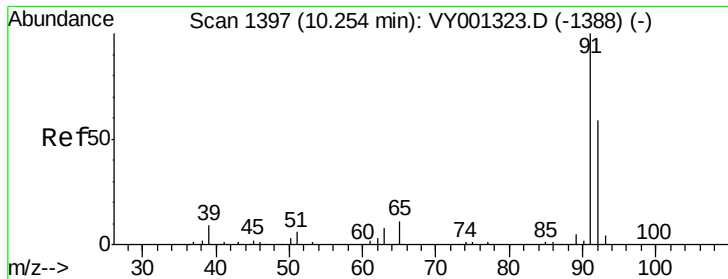
#50
Toluene-d8
Concen: 50.594 ug/l
RT: 10.19 min Scan# 1386
Delta R.T. -0.00 min
Lab File: VY001478.D
Acq: 03 Feb 2020 17:13

Tgt Ion: 98 Resp: 320631
Ion Ratio Lower Upper
98 100
100 65.3 52.6 79.0



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





#52

Toluene

Concen: 1.431 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. -0.01 min

Lab File: VY001478.D

Acq: 03 Feb 2020 17:13

Instrument :

MSVOA_Y

ClientSampled :

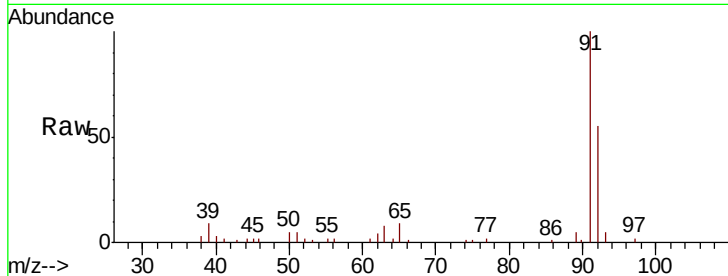
TP-C

Tot Ion: 92 Resp: 7142

Ion Ratio Lower Upper

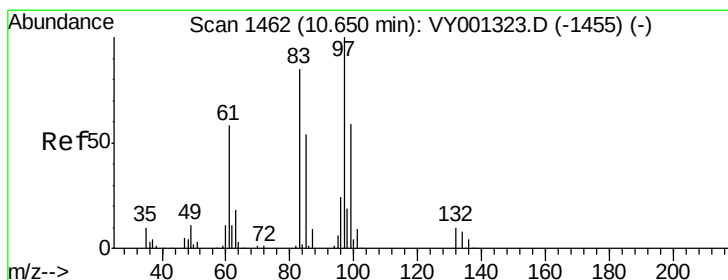
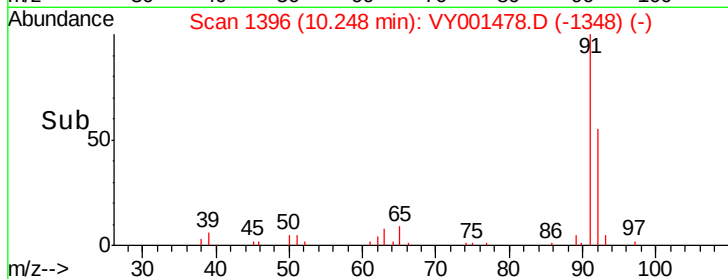
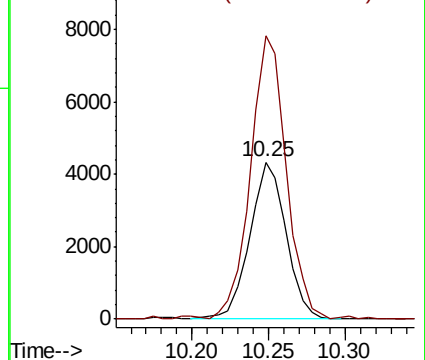
92 100

91 177.6 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VY0

Ion 91.00 (90.70 to 91.70): VY0



#55

1,1,2-Trichloroethane

Concen: 4.086 ug/l

RT: 10.62 min Scan# 1457

Delta R.T. -0.03 min

Lab File: VY001478.D

Acq: 03 Feb 2020 17:13

Tgt Ion: 97 Resp: 6444

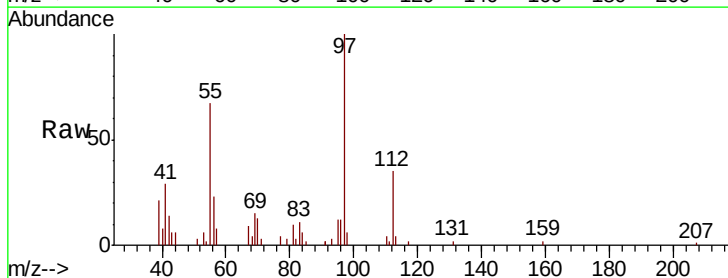
Ion Ratio Lower Upper

97 100

83 10.5 68.0 102.0#

85 1.7 43.6 65.4#

99 0.0 47.1 70.7#

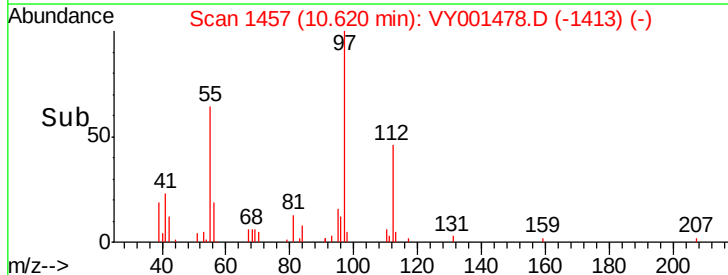
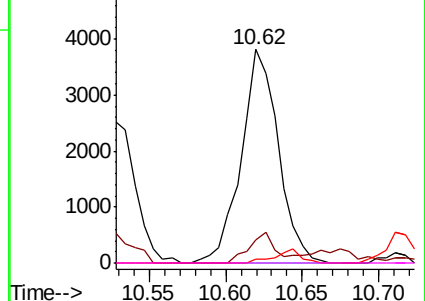


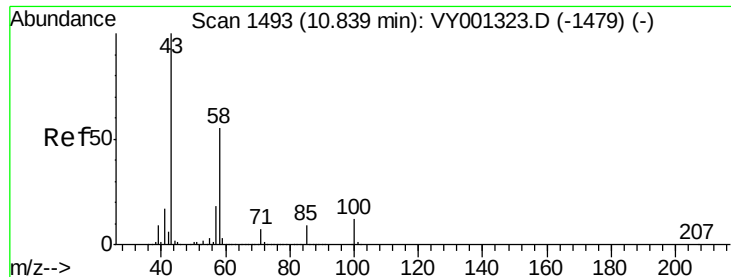
Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

Ion 98.90 (98.60 to 99.60): VY0

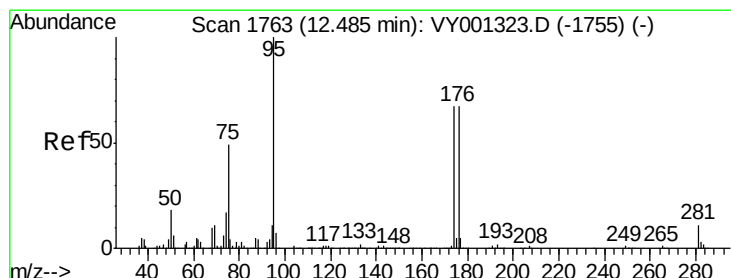
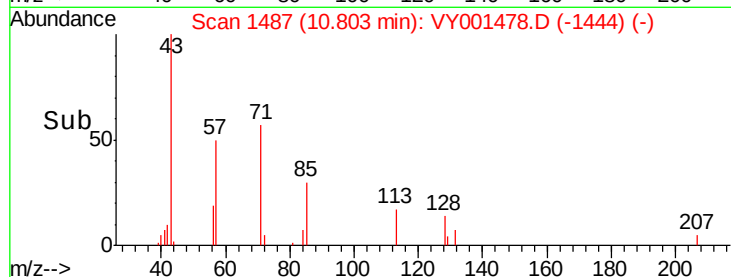
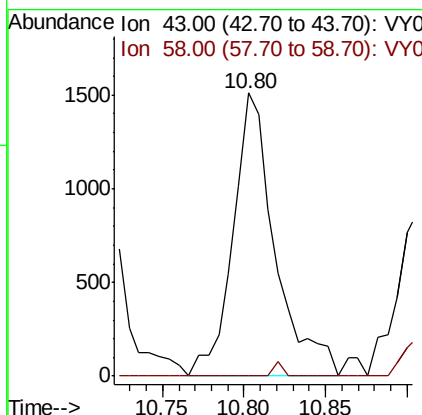
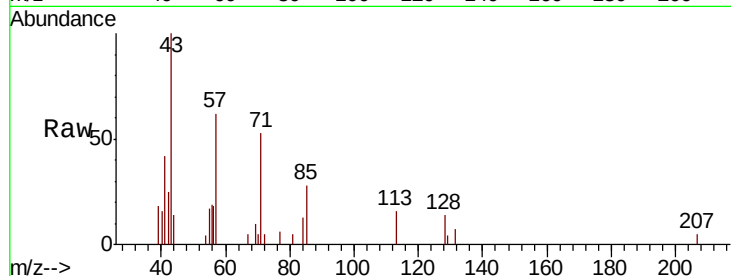




#59
2-Hexanone
Concen: 2.428 ug/l
RT: 10.80 min Scan# 1487
Delta R.T. -0.04 min
Lab File: VY001478.D
Acq: 03 Feb 2020 17:13

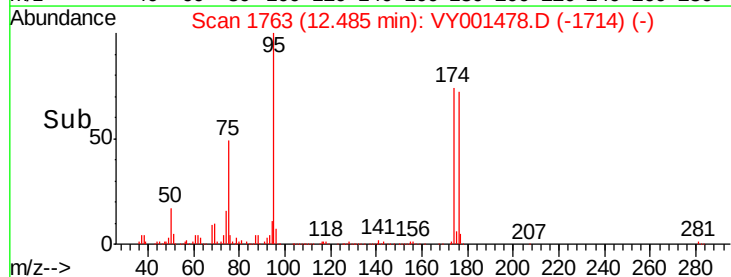
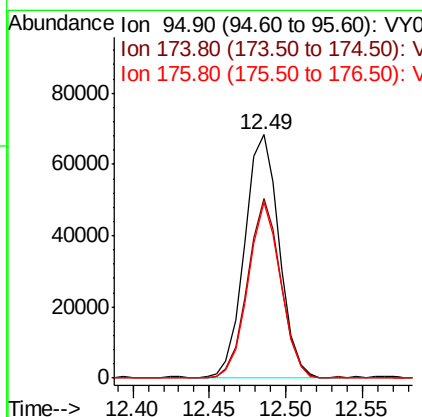
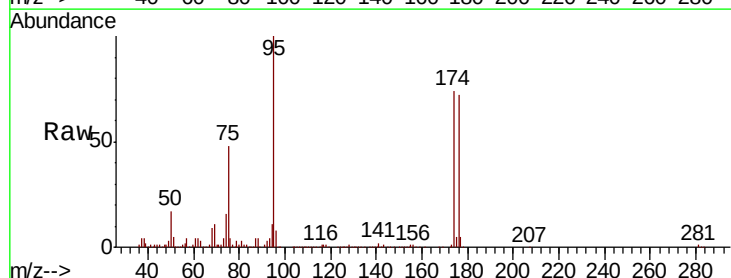
Instrument :
MSVOA_Y
ClientSampled :
TP-C

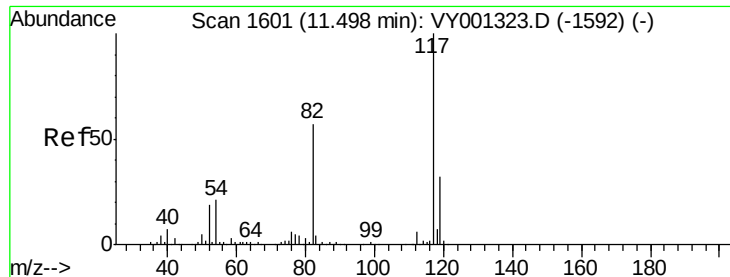
Tot Ion: 43 Resp: 2715
Ion Ratio Lower Upper
43 100
58 1.0 27.6 82.8#



#62
4-Bromofluorobenzene
Concen: 42.220 ug/l
RT: 12.49 min Scan# 1763
Delta R.T. -0.00 min
Lab File: VY001478.D
Acq: 03 Feb 2020 17:13

Tgt Ion: 95 Resp: 106552
Ion Ratio Lower Upper
95 100
174 71.1 0.0 142.0
176 68.6 0.0 138.6

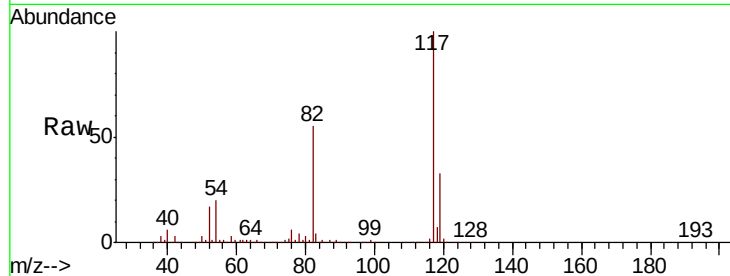




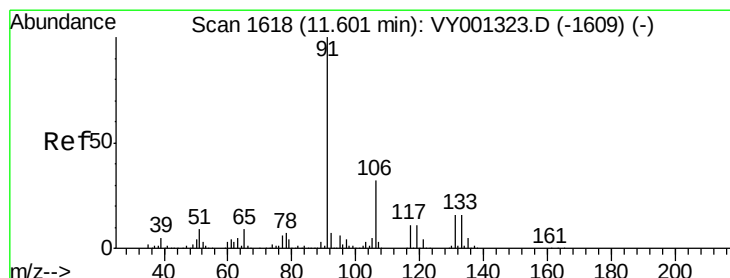
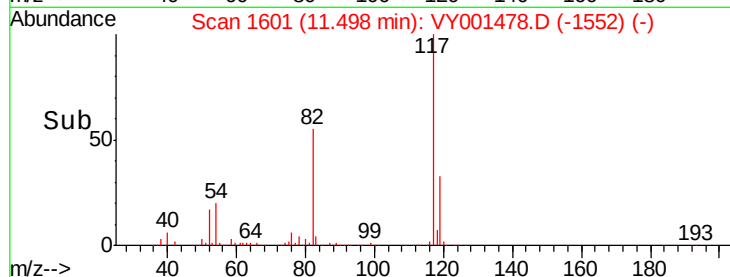
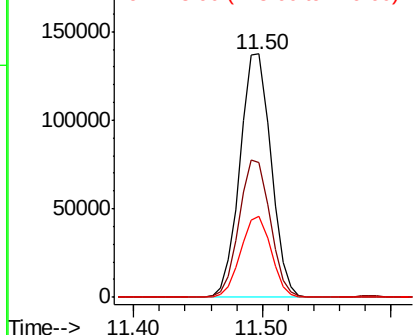
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VY001478.D
Acq: 03 Feb 2020 17:13

Instrument :
MSVOA_Y
ClientSampleId :
TP-C

Tot Ion:117 Resp: 230128
Ion Ratio Lower Upper
117 100
82 55.3 45.5 68.3
119 33.2 25.8 38.6

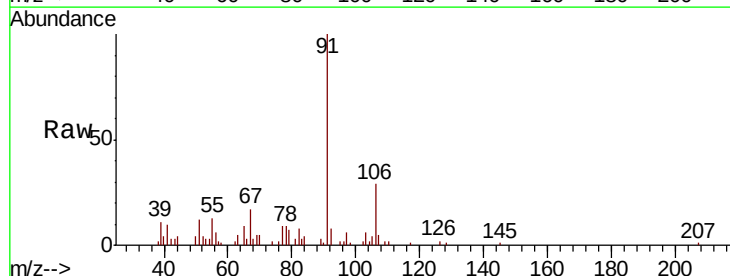


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

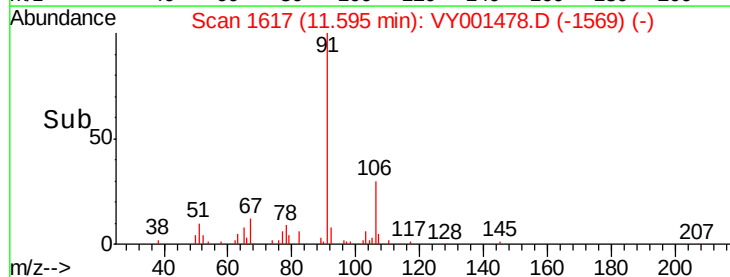
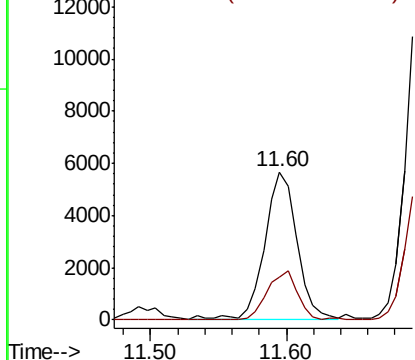


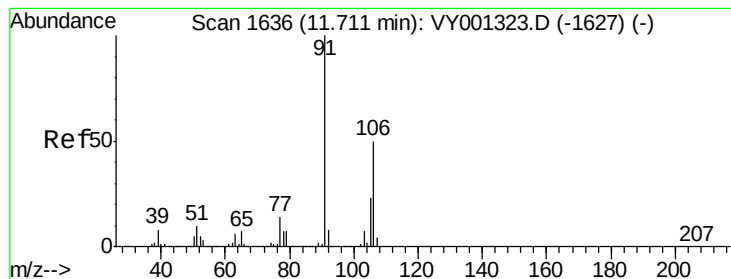
#67
Ethyl Benzene
Concen: 1.063 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VY001478.D
Acq: 03 Feb 2020 17:13

Tgt Ion: 91 Resp: 9502
Ion Ratio Lower Upper
91 100
106 29.2 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: 3.777 ug/l

RT: 11.70 min Scan# 1635

Delta R.T. -0.01 min

Lab File: VY001478.D

Acq: 03 Feb 2020 17:13

Instrument :

MSVOA_Y

ClientSampleId :

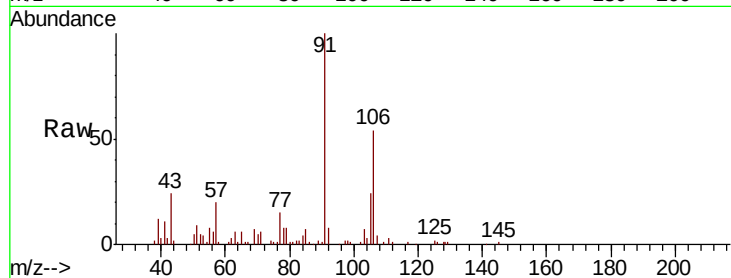
TP-C

Tot Ion:106 Resp: 12610

Ion Ratio Lower Upper

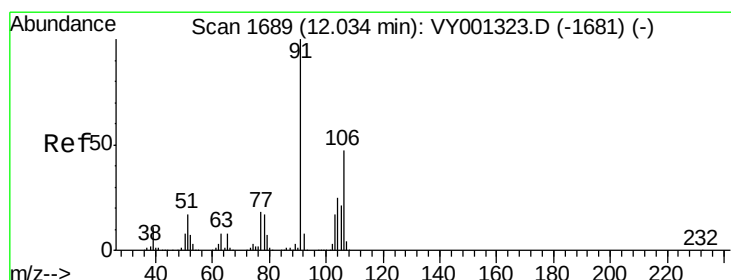
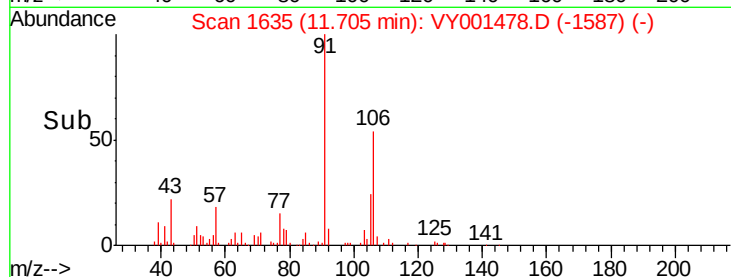
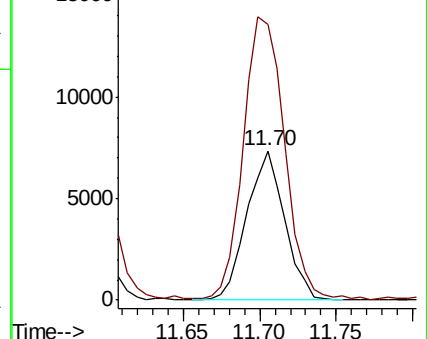
106 100

91 208.1 162.8 244.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#69

o-Xylene

Concen: 1.114 ug/l

RT: 12.03 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VY001478.D

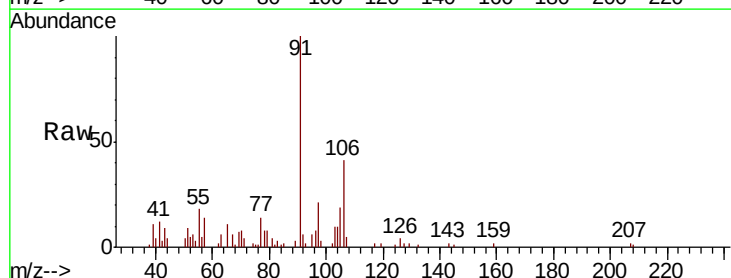
Acq: 03 Feb 2020 17:13

Tgt Ion:106 Resp: 3578

Ion Ratio Lower Upper

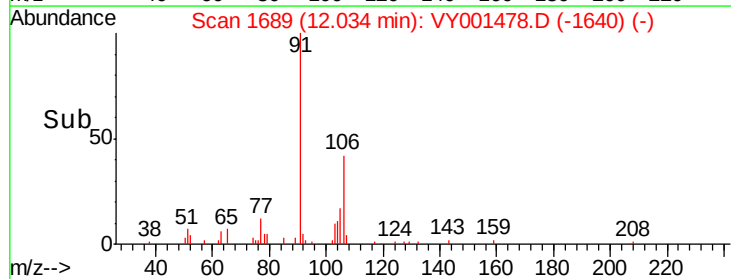
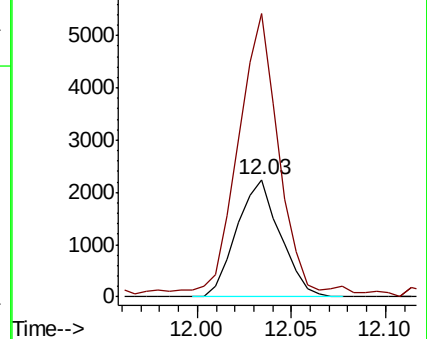
106 100

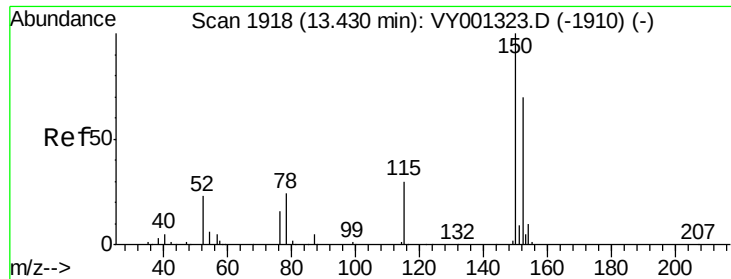
91 238.0 106.3 319.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



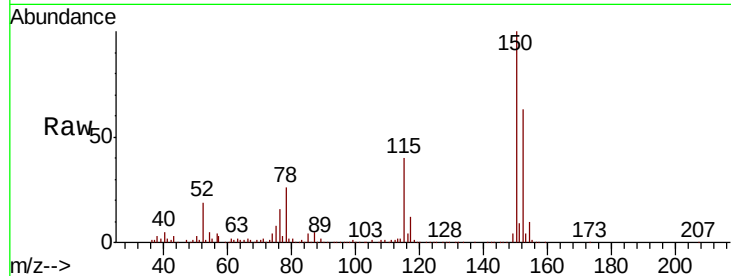


#72

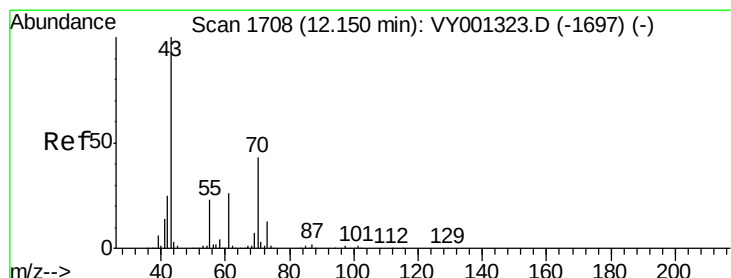
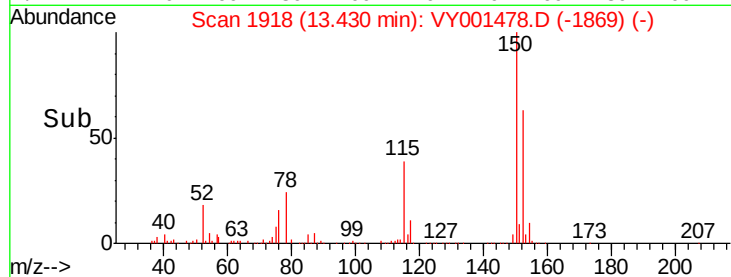
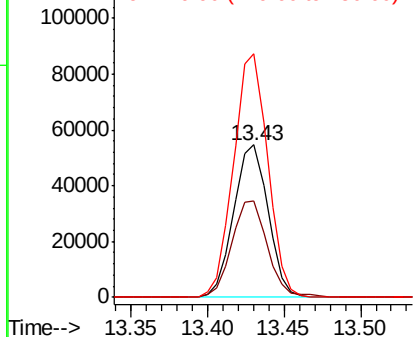
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.00 min
Lab File: VY001478.D
Acq: 03 Feb 2020 17:13

Instrument :
MSVOA_Y
ClientSampled :
TP-C

Tot Ion:152 Resp: 85269
Ion Ratio Lower Upper
152 100
115 64.7 30.9 92.8
150 158.7 0.0 349.2



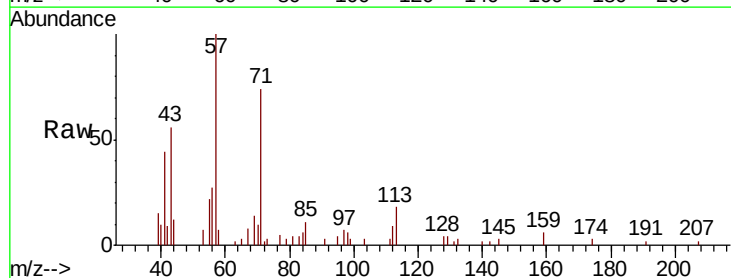
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



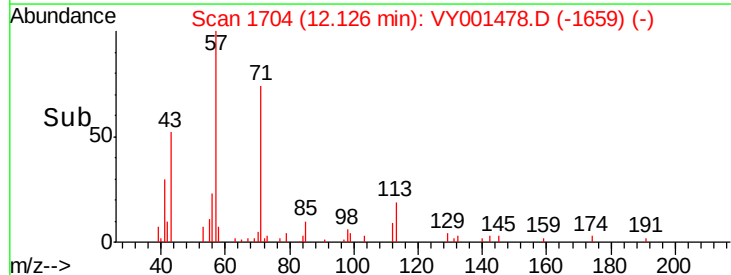
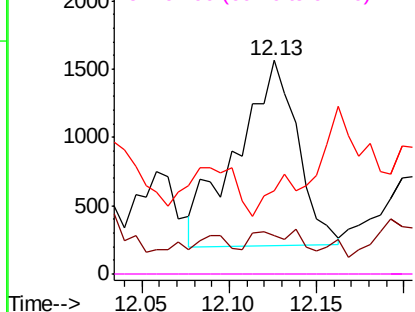
#74

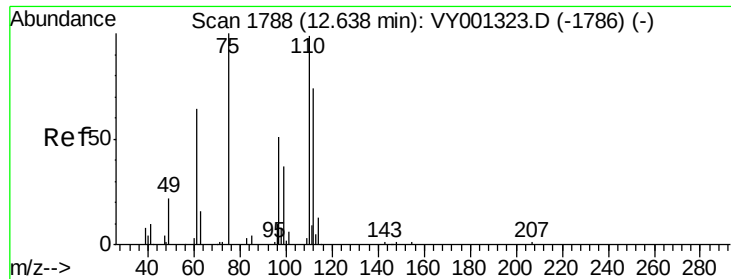
N-aryl acetate
Concen: 1.486 ug/l
RT: 12.13 min Scan# 1704
Delta R.T. -0.02 min
Lab File: VY001478.D
Acq: 03 Feb 2020 17:13

Tgt Ion: 43 Resp: 3272
Ion Ratio Lower Upper
43 100
70 7.2 33.5 50.3#
55 9.2 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

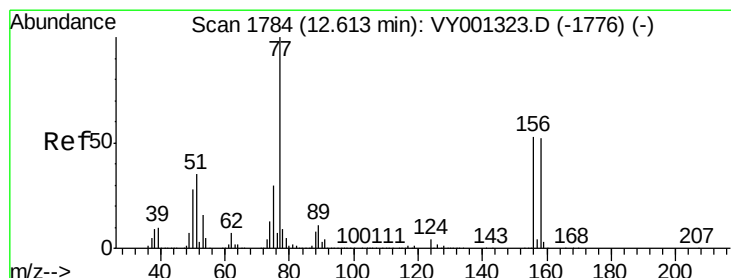
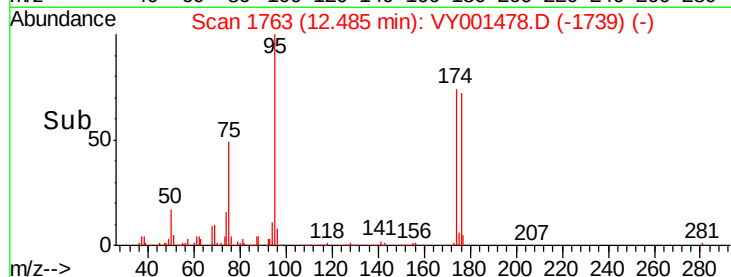
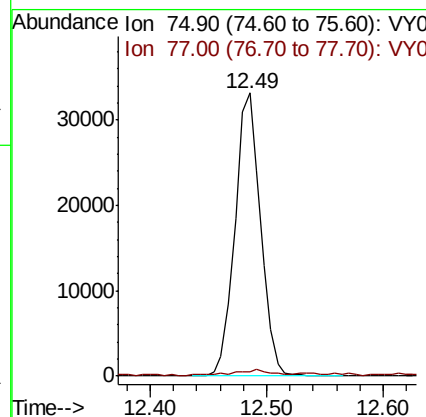
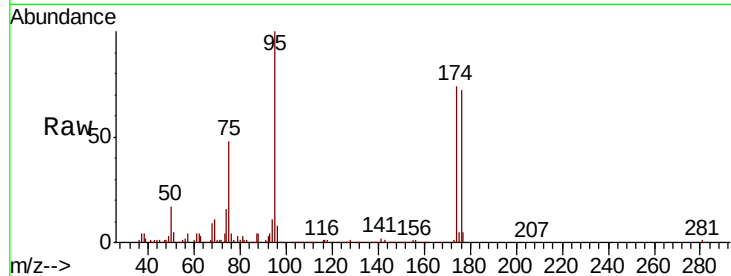




#76
 1,2,3-Trichloropropane
 Concen: 49.422 ug/l
 RT: 12.49 min Scan# 1763
 Delta R.T. -0.15 min
 Lab File: VY001478.D
 Acq: 03 Feb 2020 17:13

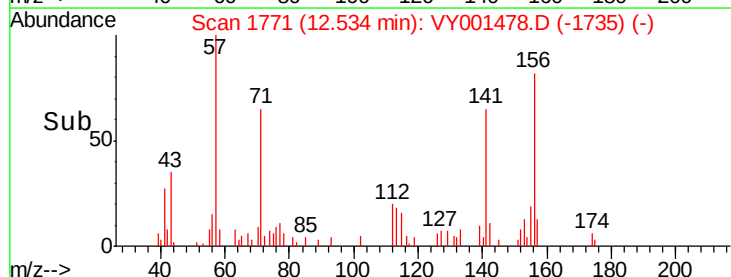
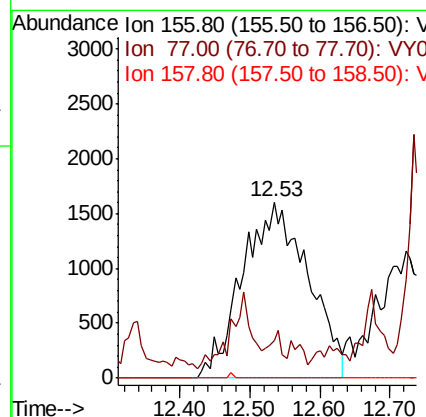
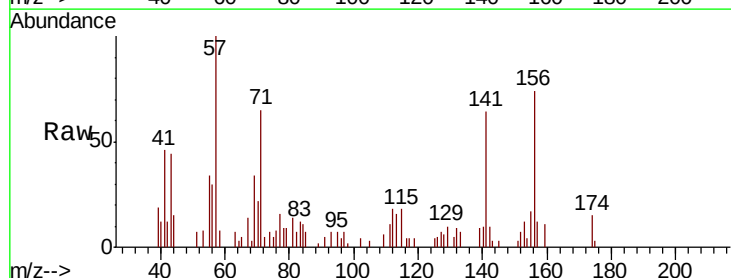
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-C

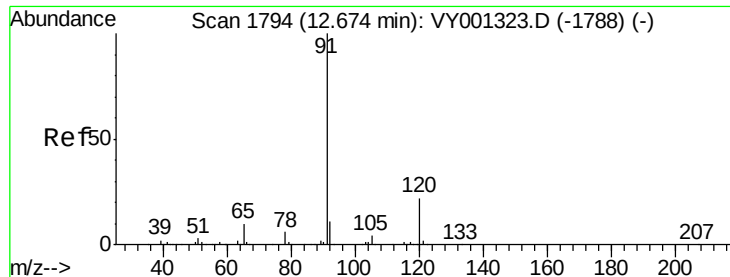
Tot Ion: 75 Resp: 50781
 Ion Ratio Lower Upper
 75 100
 77 2.9 0.0 0.0#



#77
 Bromobenzene
 Concen: 6.960 ug/l
 RT: 12.53 min Scan# 1771
 Delta R.T. -0.08 min
 Lab File: VY001478.D
 Acq: 03 Feb 2020 17:13

Tgt Ion: 156 Resp: 10373
 Ion Ratio Lower Upper
 156 100
 77 3.4 104.7 313.9#
 158 0.0 48.6 145.8#





#78

n-propylbenzene

Concen: 2.491 ug/l

RT: 12.67 min Scan# 1794

Delta R.T. -0.00 min

Lab File: VY001478.D

Acq: 03 Feb 2020 17:13

Instrument :

MSVOA_Y

ClientSampled :

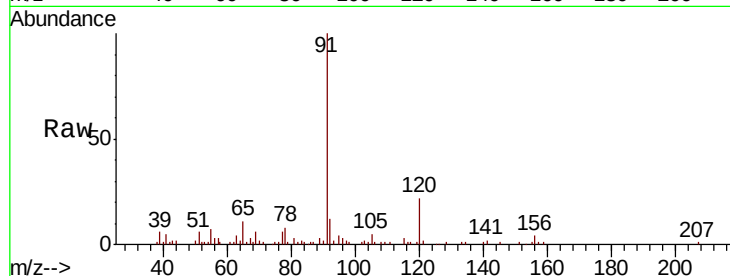
TP-C

Tot Ion: 91 Resp: 20177

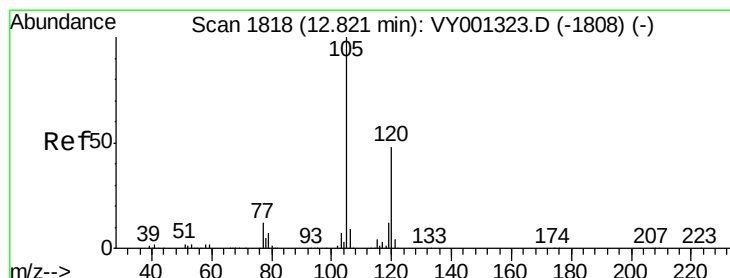
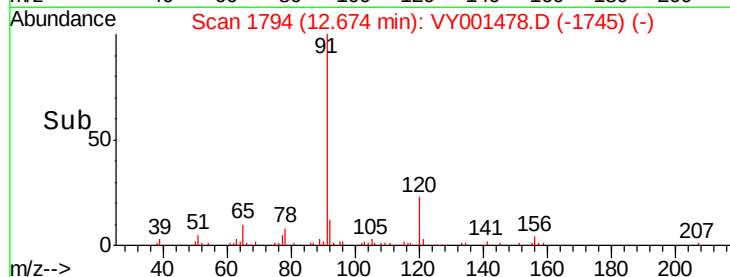
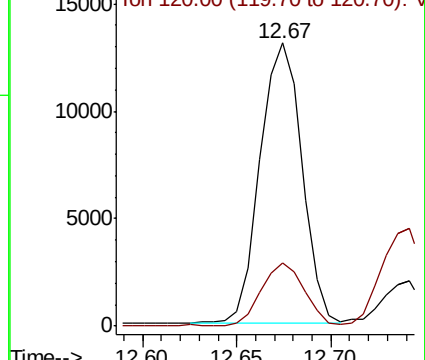
Ion Ratio Lower Upper

91 100

120 23.2 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VY001478.D (-1745) (-)



#80

1,3,5-Trimethylbenzene

Concen: 2.646 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. -0.01 min

Lab File: VY001478.D

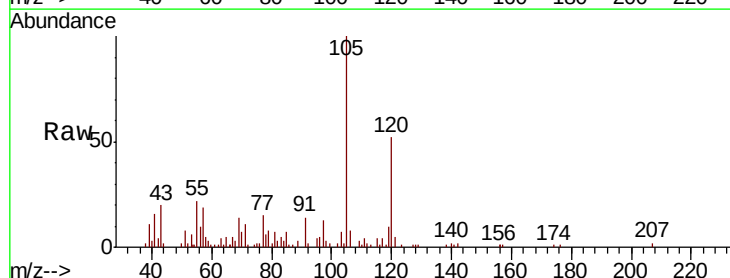
Acq: 03 Feb 2020 17:13

Tgt Ion: 105 Resp: 14862

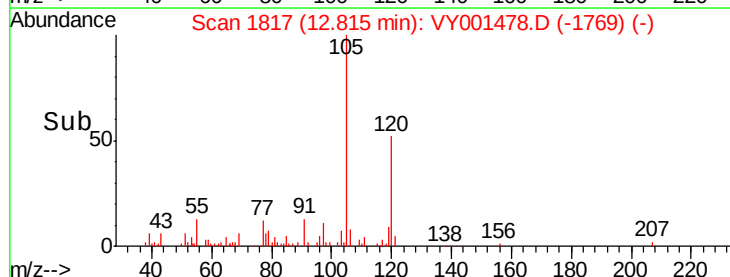
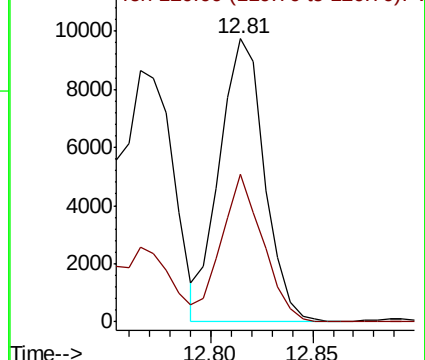
Ion Ratio Lower Upper

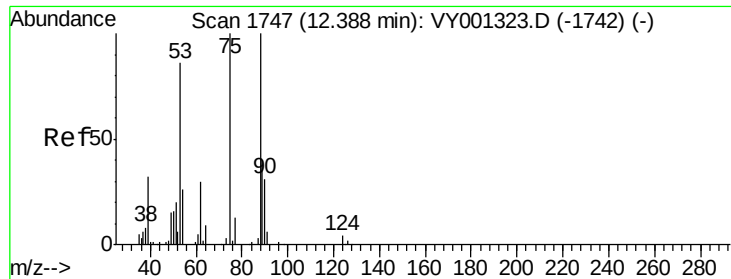
105 100

120 48.4 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): VY001478.D (-1769) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 93.526 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001478.D

Acq: 03 Feb 2020 17:13

Instrument :

MSVOA_Y

ClientSampleId :

TP-C

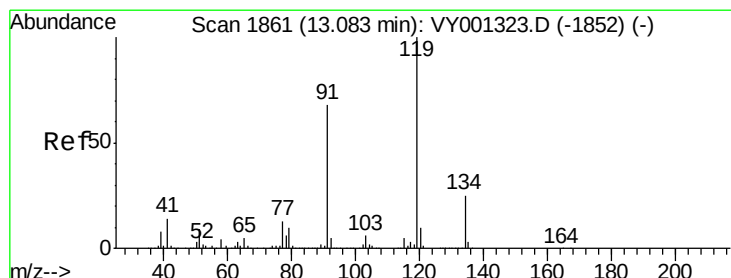
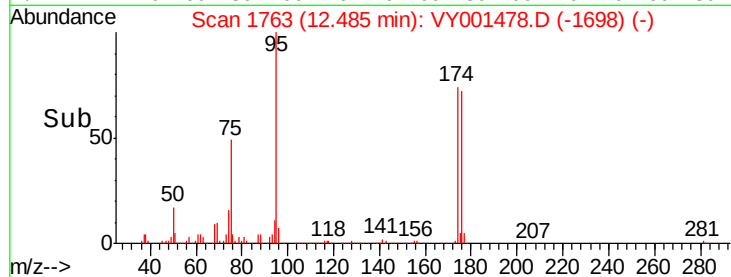
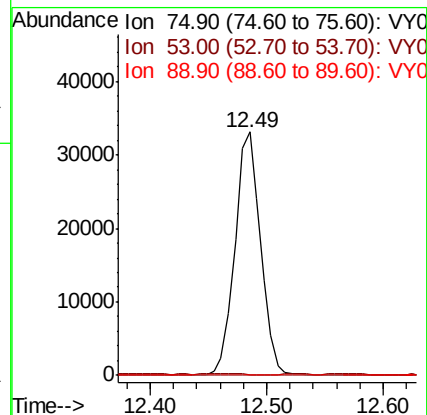
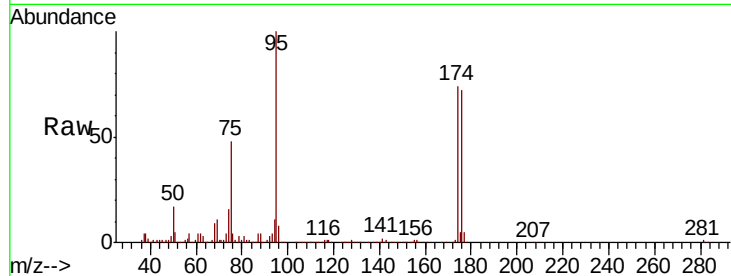
Tot Ion: 75 Resp: 50781

Ion Ratio Lower Upper

75 100

53 0.4 69.9 104.9#

89 0.1 36.6 54.8#



#83

tert-Butylbenzene

Concen: 1.522 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. 0.04 min

Lab File: VY001478.D

Acq: 03 Feb 2020 17:13

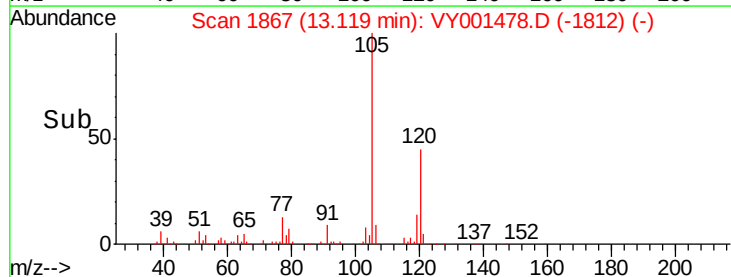
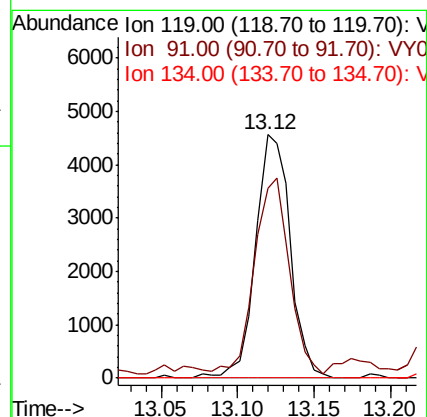
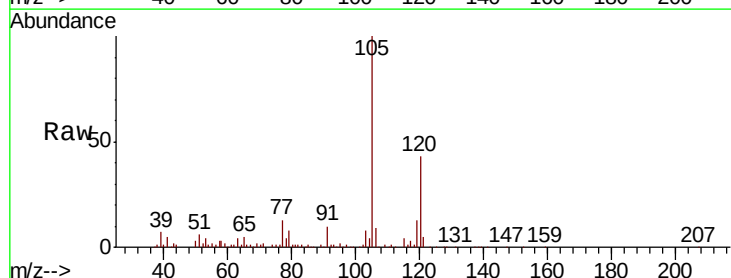
Tgt Ion: 119 Resp: 7207

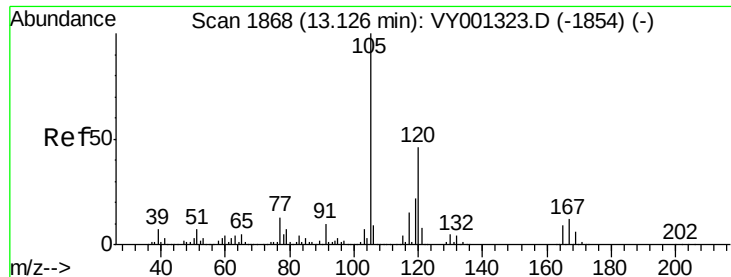
Ion Ratio Lower Upper

119 100

91 80.2 33.0 99.0

134 0.0 13.3 39.9#

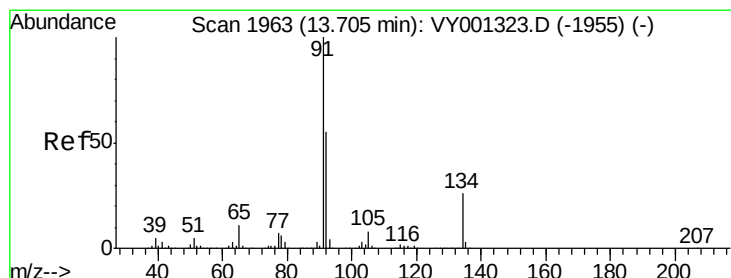
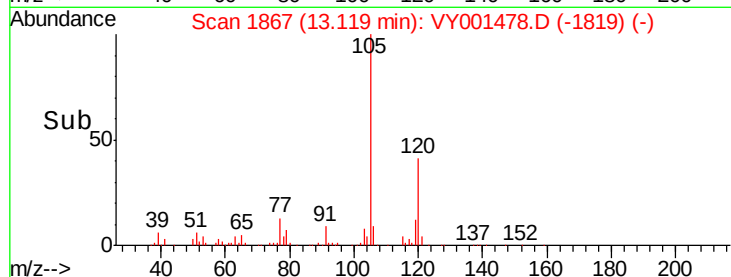
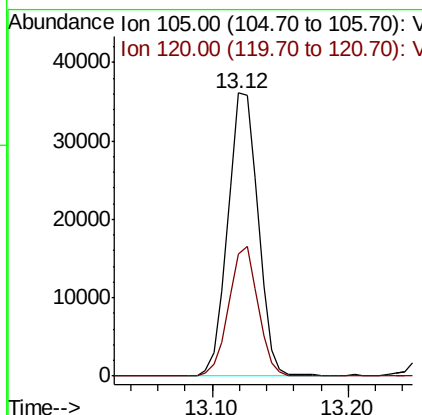
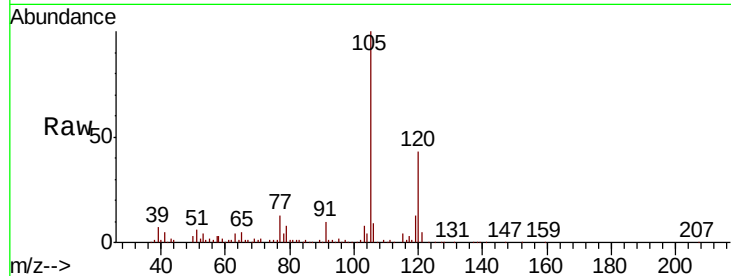




#84
 1,2,4-Trimethylbenzene
 Concen: 9.922 ug/l
 RT: 13.12 min Scan# 1867
 Delta R.T. -0.01 min
 Lab File: VY001478.D
 Acq: 03 Feb 2020 17:13

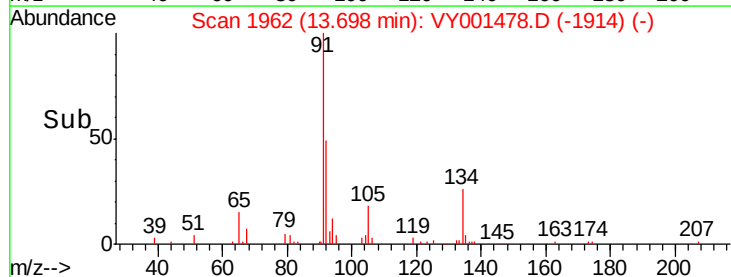
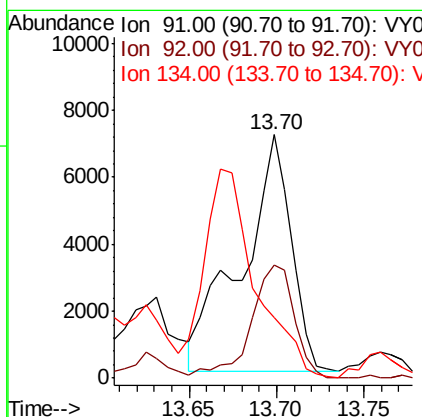
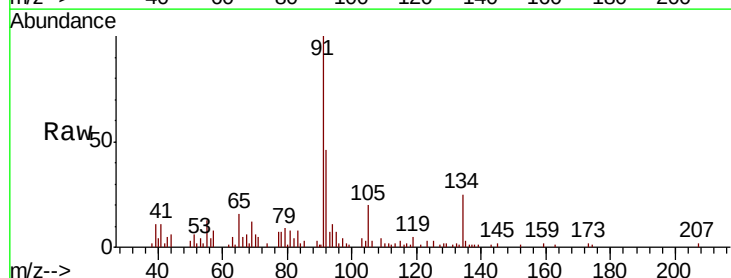
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-C

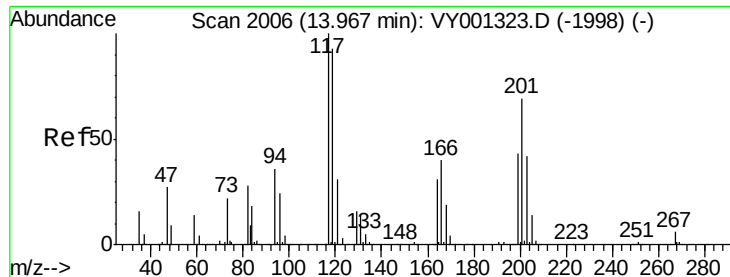
Tot Ion:105 Resp: 55946
 Ion Ratio Lower Upper
 105 100
 120 44.0 22.4 67.3



#89
 n-Butylbenzene
 Concen: 2.335 ug/l
 RT: 13.70 min Scan# 1962
 Delta R.T. -0.01 min
 Lab File: VY001478.D
 Acq: 03 Feb 2020 17:13

Tgt Ion: 91 Resp: 13927
 Ion Ratio Lower Upper
 91 100
 92 41.6 27.6 82.8
 134 0.0 12.9 38.6#





#90

Hexachloroethane

Concen: 4.169 ug/l

RT: 13.97 min Scan# 2007

Delta R.T. 0.01 min

Lab File: VY001478.D

Acq: 03 Feb 2020 17:13

Instrument :

MSVOA_Y

ClientSampleId :

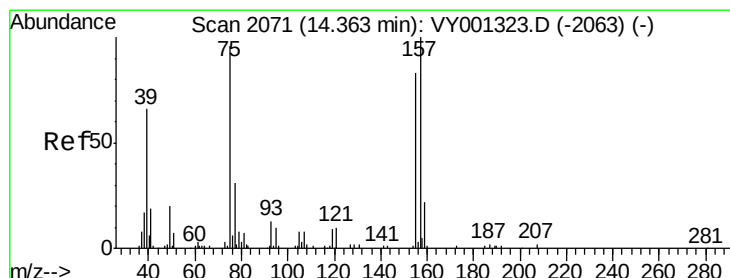
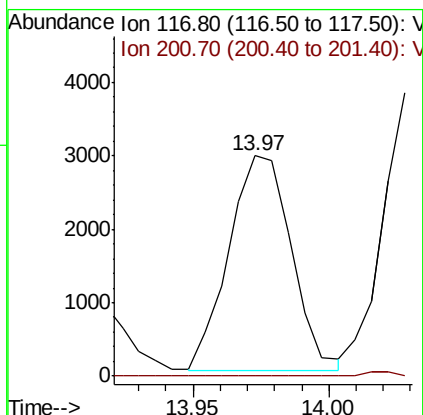
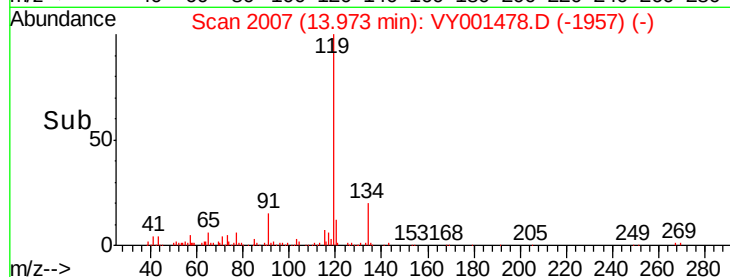
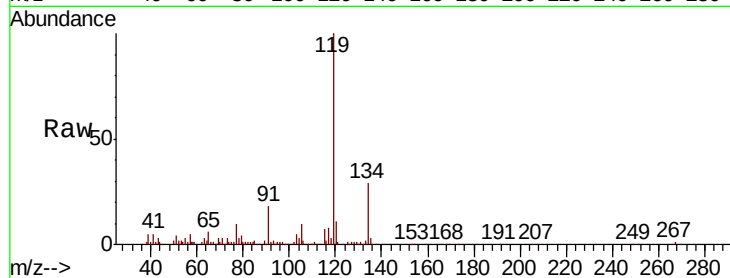
TP-C

Tot Ion:117 Resp: 4684

Ion Ratio Lower Upper

117 100

201 0.0 34.6 103.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.408 ug/l

RT: 14.34 min Scan# 2068

Delta R.T. -0.02 min

Lab File: VY001478.D

Acq: 03 Feb 2020 17:13

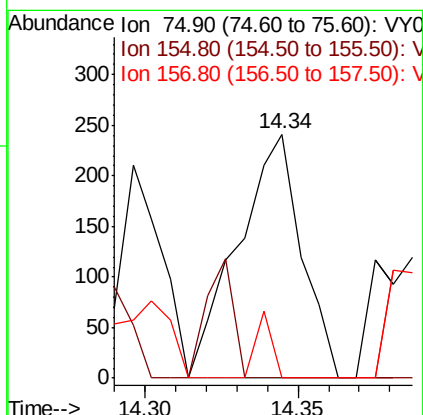
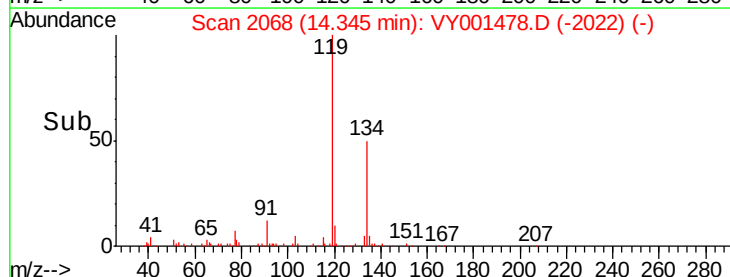
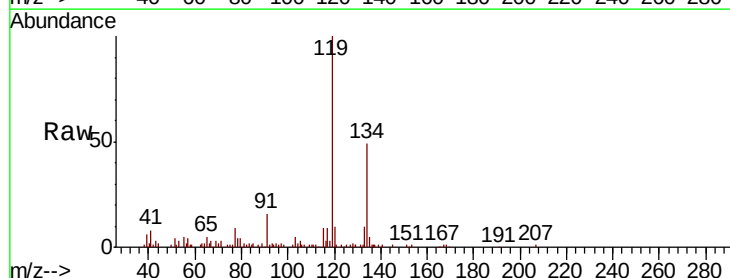
Tgt Ion: 75 Resp: 350

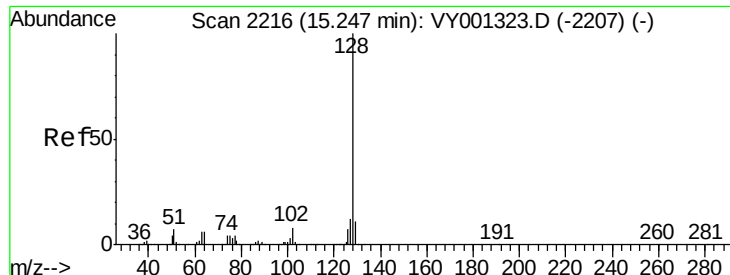
Ion Ratio Lower Upper

75 100

155 20.9 43.0 129.2#

157 6.9 53.3 160.0#

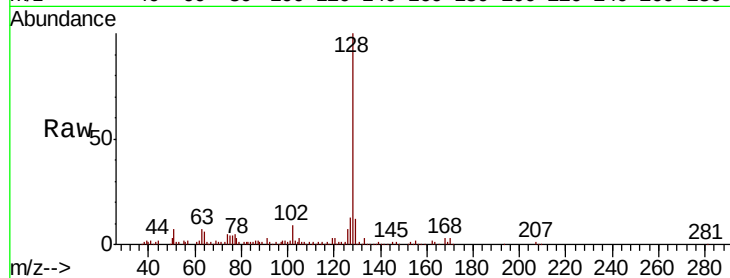




#95
Naphthalene
Concen: 11.779 ug/l
RT: 15.24 min Scan# 2215
Delta R.T. -0.01 min
Lab File: VY001478.D
Acq: 03 Feb 2020 17:13

Instrument :
MSVOA_Y
ClientSampleId :
TP-C

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.2	15.2
129	13.0	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

