

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY030920\
 Data File : VY001915.D
 Acq On : 09 Mar 2020 17:54
 Operator : SY/MD
 Sample : L1852-22
 Misc : 6.59G/5ML/MSVOA_Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-4-S2

Quant Time: Mar 10 11:55:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 04:05:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	143444	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.70	114	274617	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.49	117	244298	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.43	152	93010	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.15	65	90310	58.97	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	117.94%	
35) Dibromofluoromethane	7.73	113	80425	53.63	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	107.26%	
50) Toluene-d8	10.18	98	331193	52.38	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	104.76%	
62) 4-Bromofluorobenzene	12.48	95	104924	47.72	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	95.44%	

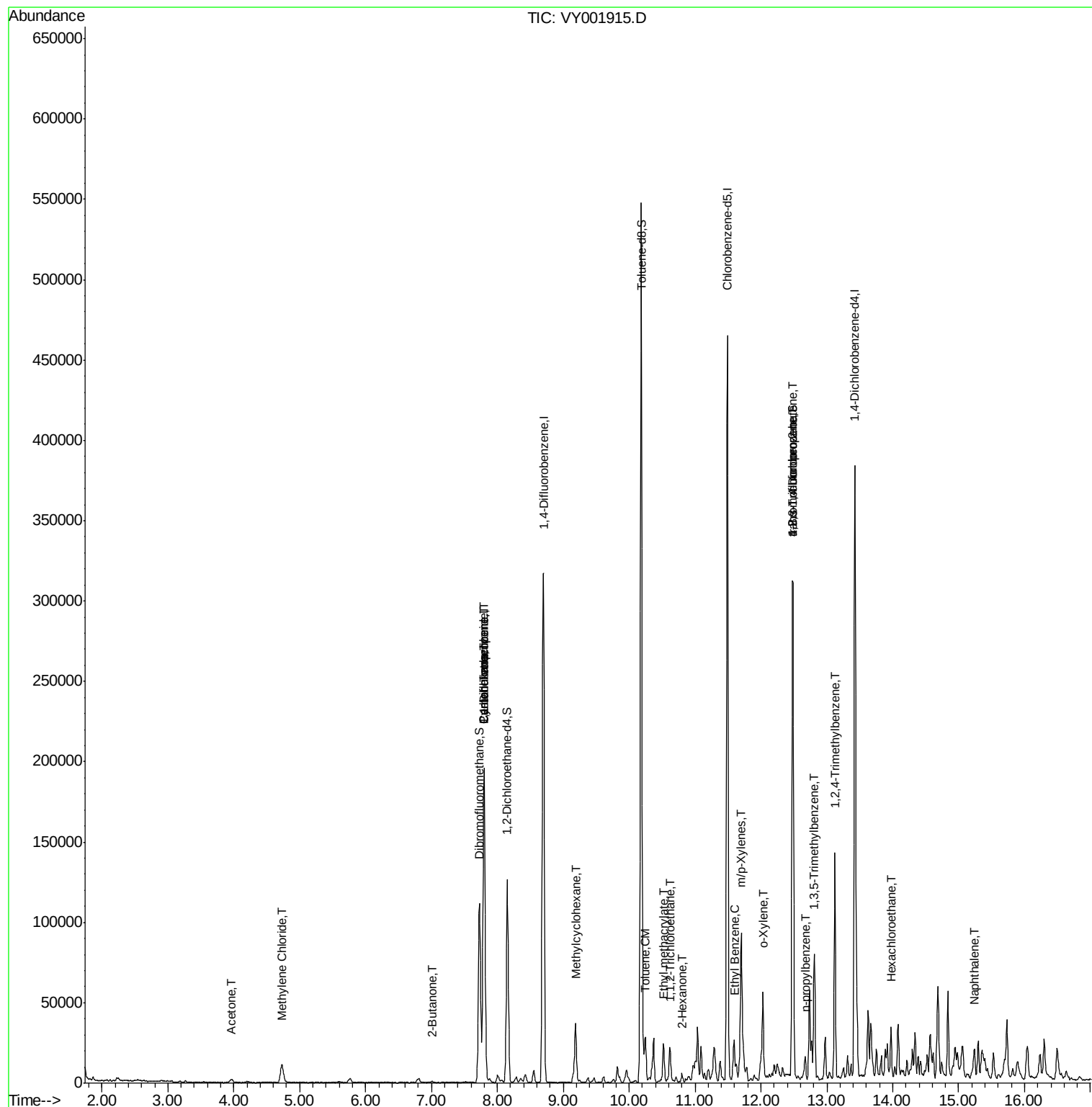
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.39	94	38	Below Cal	#	4
16) Acetone	3.96	43	4048	9.08	ug/l	92
20) Methylene Chloride	4.73	84	8738	4.57	ug/l	95
25) 2-Butanone	7.00	43	886	1.31	ug/l	# 49
31) Cyclohexane	7.80	56	8831	2.62	ug/l	# 67
36) 1,1-Dichloropropene	7.80	75	12302	4.66	ug/l	# 45
38) Carbon Tetrachloride	7.80	117	14185	6.28	ug/l	# 15
39) Methylcyclohexane	9.19	83	15479	4.42	ug/l	91
52) Toluene	10.25	92	11241	2.36	ug/l	99
55) 1,1,2-Trichloroethane	10.62	97	8638	5.82	ug/l	# 19
56) Ethyl methacrylate	10.52	69	2999	1.38	ug/l	# 13
59) 2-Hexanone	10.80	43	3008	2.81	ug/l	# 23
67) Ethyl Benzene	11.60	91	14454	1.59	ug/l	91
68) m/p-Xylenes	11.70	106	23069	6.87	ug/l	97
69) o-Xylene	12.03	106	13164	4.16	ug/l	100
76) 1,2,3-Trichloropropane	12.48	75	53661	48.62	ug/l	# 100
78) n-propylbenzene	12.67	91	11021	1.26	ug/l	99
80) 1,3,5-Trimethylbenzene	12.81	105	32018	5.48	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.48	75	53661	98.21	ug/l	# 17
84) 1,2,4-Trimethylbenzene	13.12	105	73254	12.63	ug/l	99
90) Hexachloroethane	13.97	117	1306	1.12	ug/l	# 18
95) Naphthalene	15.24	128	11951	2.90	ug/l	# 93

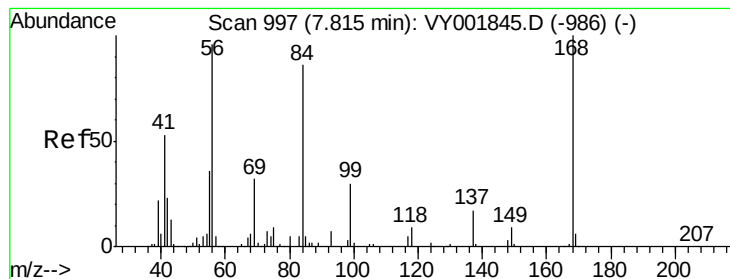
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 10 11:55:31 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\82Y030420S.M
Quant Title : SW846 8260
QLast Update : Thu Mar 05 04:05:33 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.02 min

Lab File: VY001915.D

Acq: 09 Mar 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

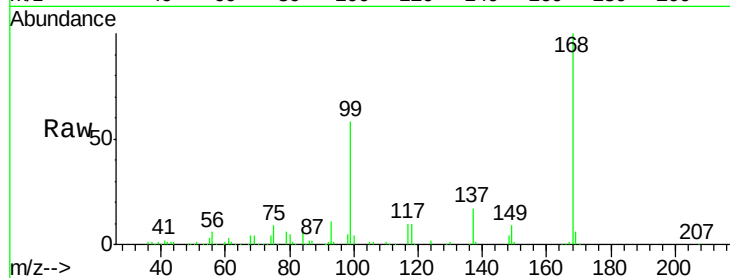
TP-4-S2

Tgt Ion:168 Resp: 143444

Ion Ratio Lower Upper

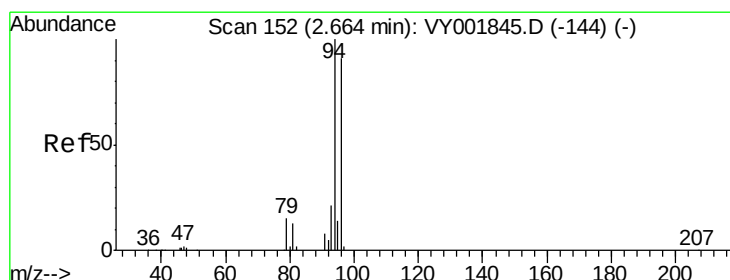
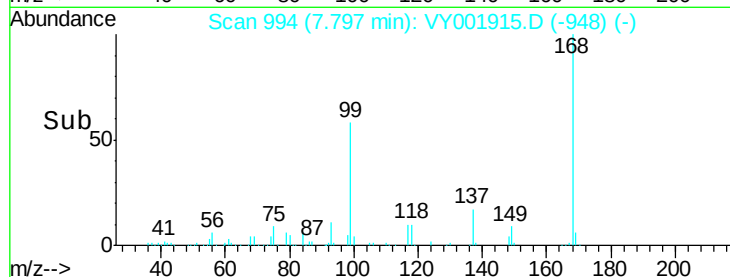
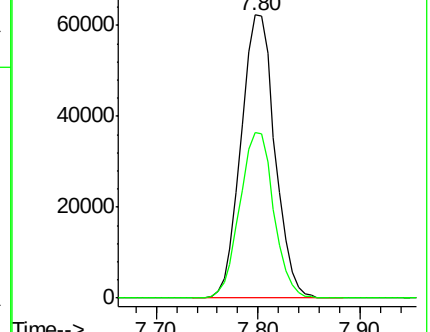
168 100

99 58.4 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001915.D (-948) (-)

Ion 98.90 (98.60 to 99.60): VY001915.D (-948) (-)



#5

Bromomethane

Concen: Below Cal

RT: 2.39 min Scan# 107

Delta R.T. -0.27 min

Lab File: VY001915.D

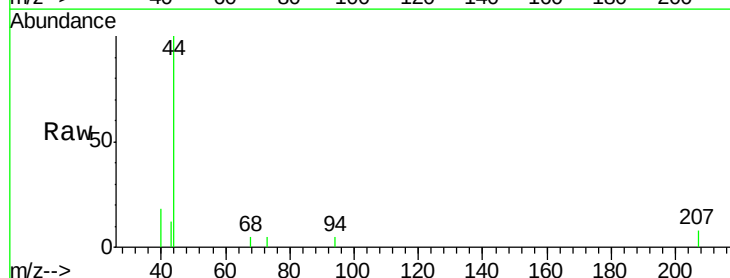
Acq: 09 Mar 2020 17:54

Tgt Ion: 94 Resp: 38

Ion Ratio Lower Upper

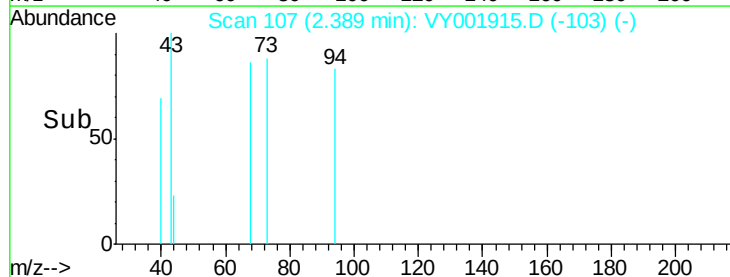
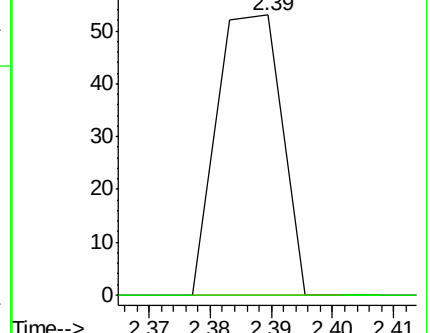
94 100

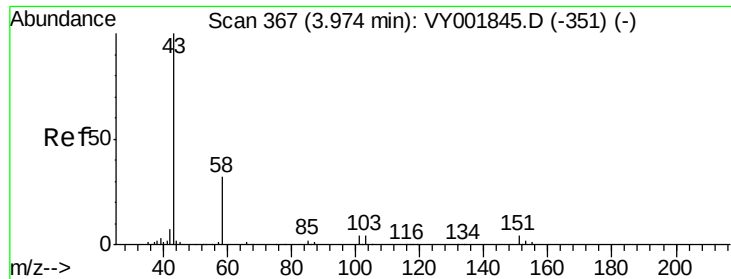
96 0.0 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VY001915.D (-103) (-)

Ion 95.90 (95.60 to 96.60): VY001915.D (-103) (-)





#16

Acetone

Concen: 9.08 ug/l

RT: 3.96 min Scan# 364

Delta R.T. -0.02 min

Lab File: VY001915.D

Acq: 09 Mar 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

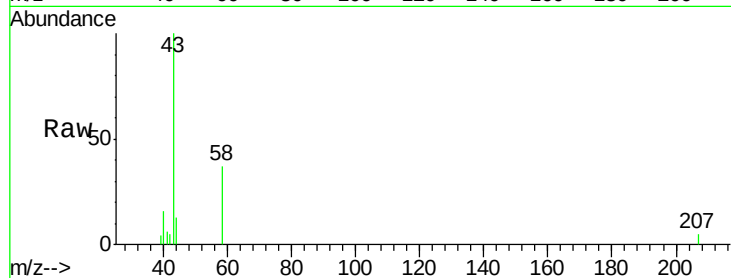
TP-4-S2

Tgt Ion: 43 Resp: 4048

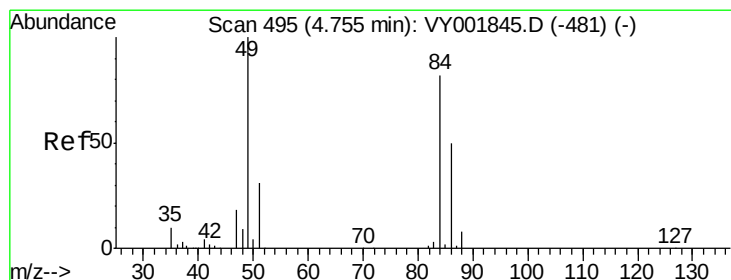
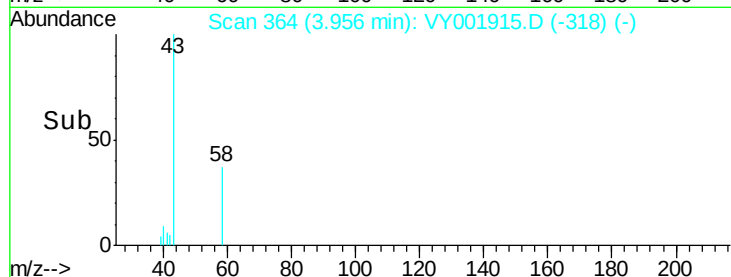
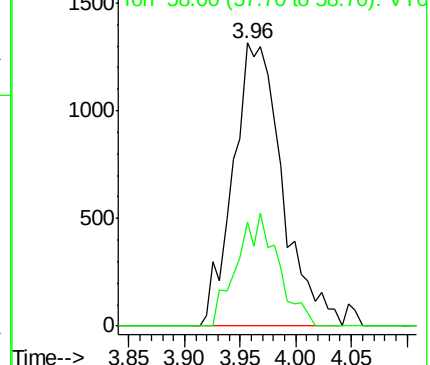
Ion Ratio Lower Upper

43 100

58 36.8 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VY001915.D (-364) (-)



#20

Methylene Chloride

Concen: 4.57 ug/l

RT: 4.73 min Scan# 491

Delta R.T. -0.02 min

Lab File: VY001915.D

Acq: 09 Mar 2020 17:54

Tgt Ion: 84 Resp: 8738

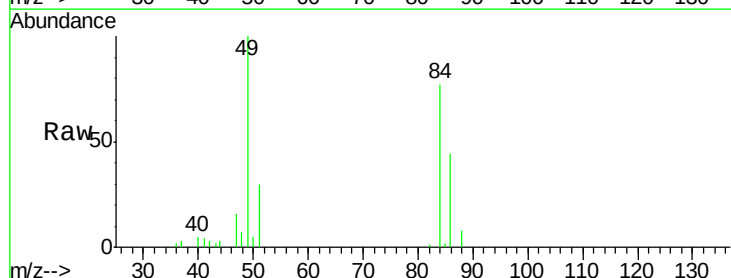
Ion Ratio Lower Upper

84 100

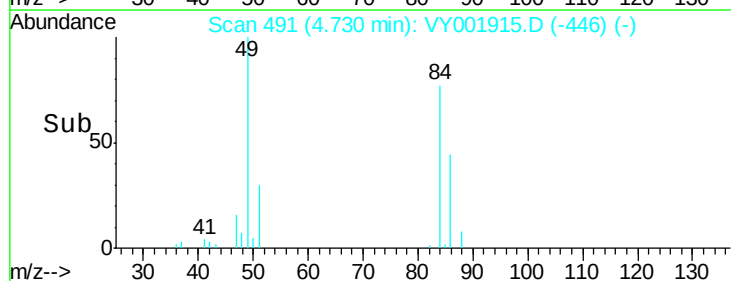
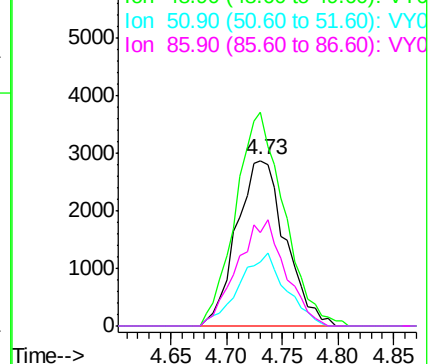
49 129.1 98.2 147.2

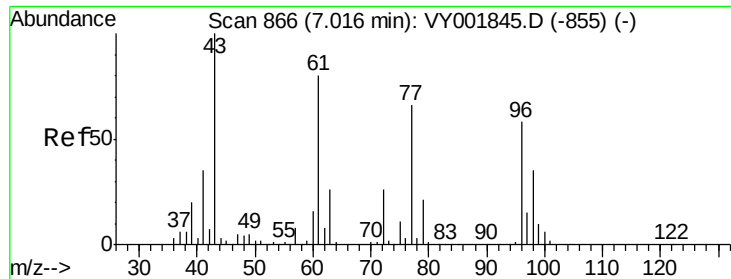
51 38.5 30.2 45.2

86 56.8 48.9 73.3



Abundance Ion 83.90 (83.60 to 84.60): VY001915.D (-491) (-)

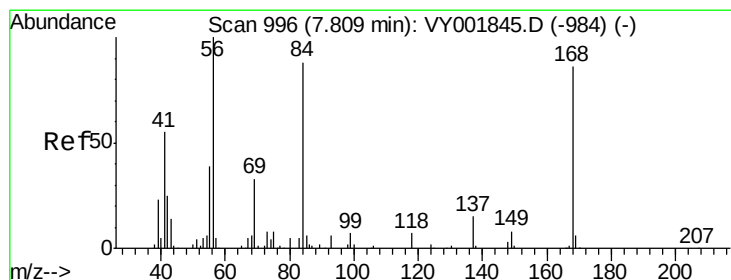
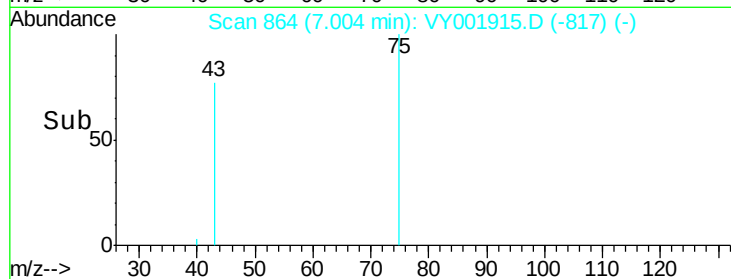
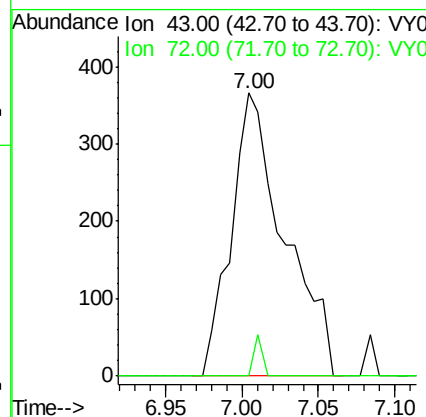
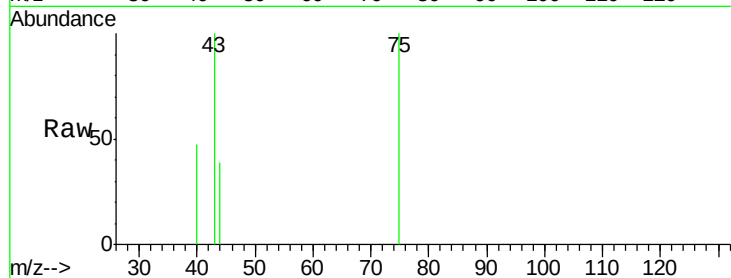




#25
 2-Butanone
 Concen: 1.31 ug/l
 RT: 7.00 min Scan# 864
 Delta R.T. -0.01 min
 Lab File: VY001915.D
 Acq: 09 Mar 2020 17:54

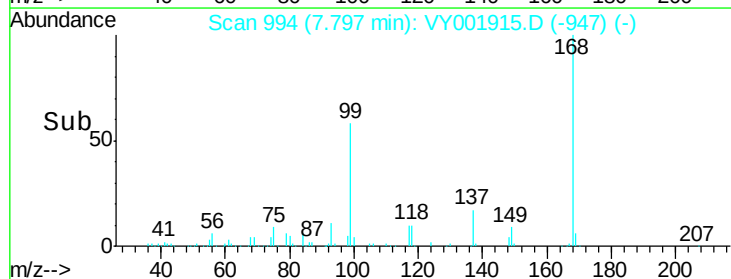
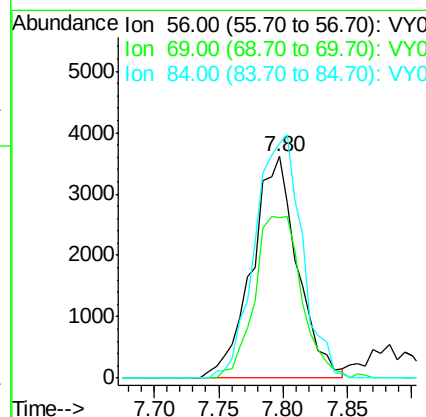
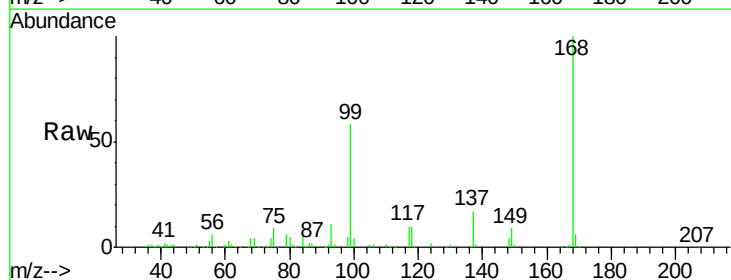
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-4-S2

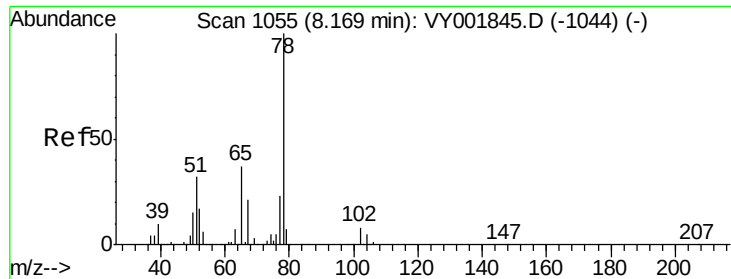
Tgt Ion: 43 Resp: 886
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.9 31.3#



#31
 Cyclohexane
 Concen: 2.62 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.01 min
 Lab File: VY001915.D
 Acq: 09 Mar 2020 17:54

Tgt Ion: 56 Resp: 8831
 Ion Ratio Lower Upper
 56 100
 69 72.1 26.7 40.1#
 84 106.0 70.4 105.6#

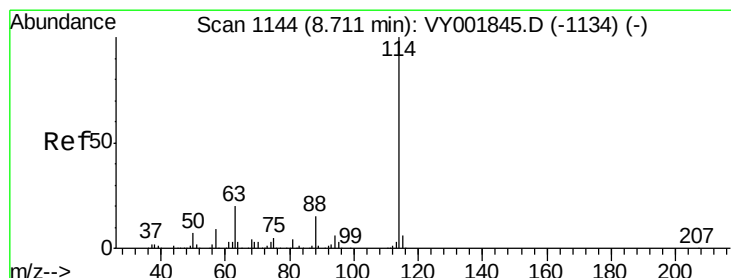
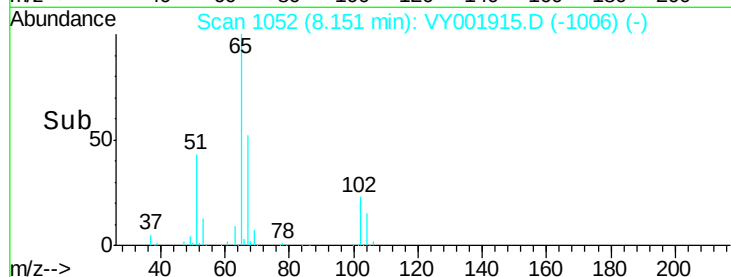
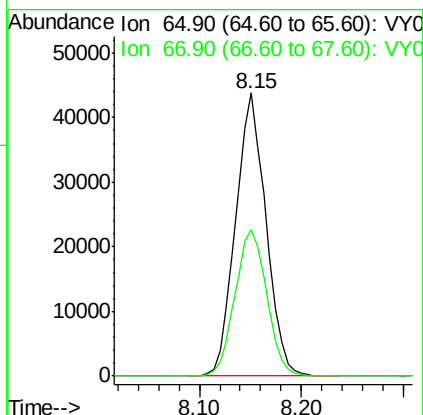
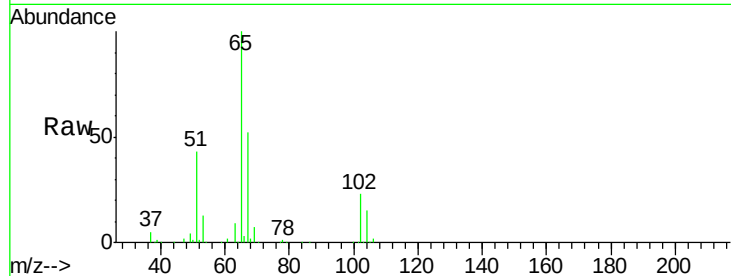




#33
 1,2-Dichloroethane-d4
 Concen: 58.97 ug/l
 RT: 8.15 min Scan# 1052
 Delta R.T. -0.02 min
 Lab File: VY001915.D
 Acq: 09 Mar 2020 17:54

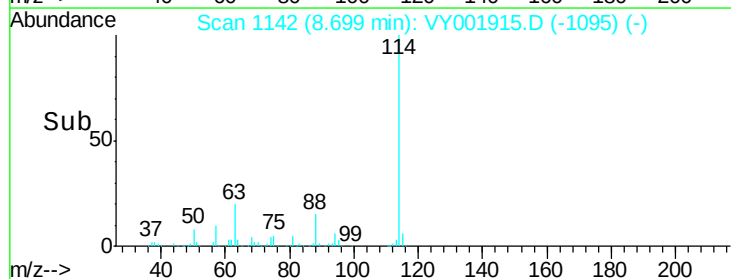
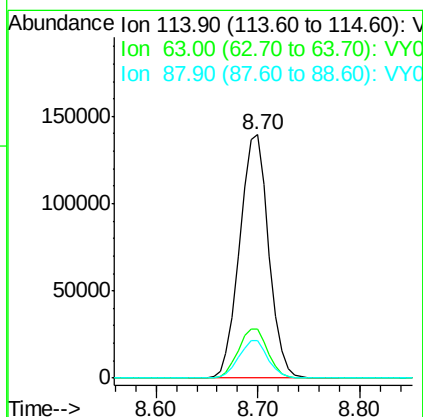
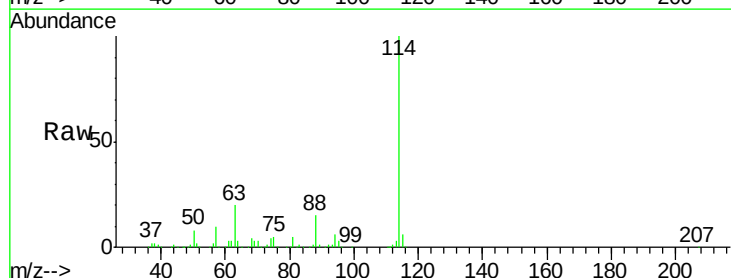
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-4-S2

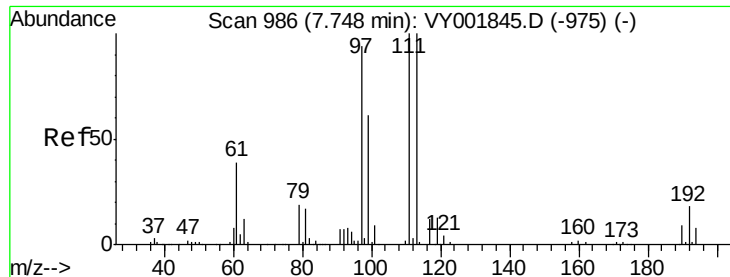
Tgt Ion: 65 Resp: 90310
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 110.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. -0.01 min
 Lab File: VY001915.D
 Acq: 09 Mar 2020 17:54

Tgt Ion: 114 Resp: 274617
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.4
 88 15.3 0.0 30.4





#35

Dibromofluoromethane

Concen: 53.63 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.02 min

Lab File: VY001915.D

Acq: 09 Mar 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

TP-4-S2

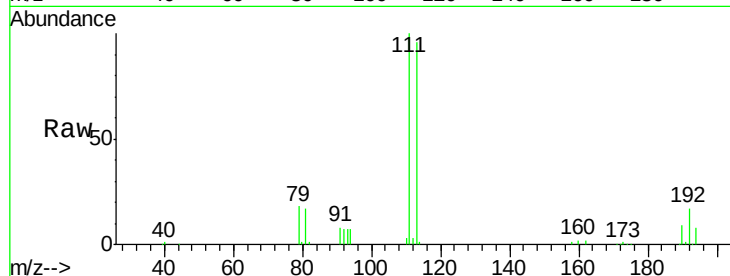
Tgt Ion:113 Resp: 80425

Ion Ratio Lower Upper

113 100

111 102.9 81.8 122.8

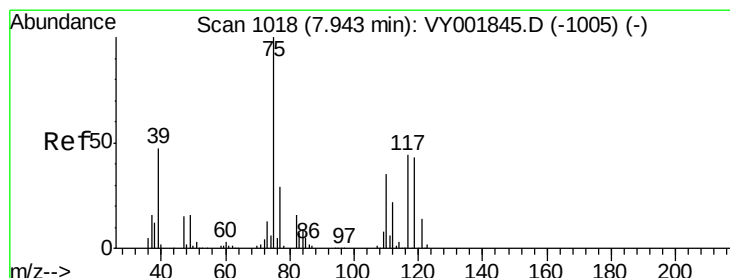
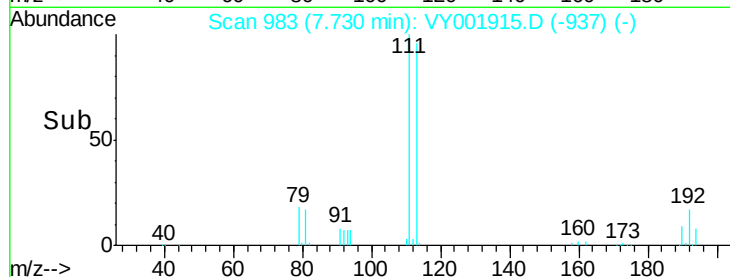
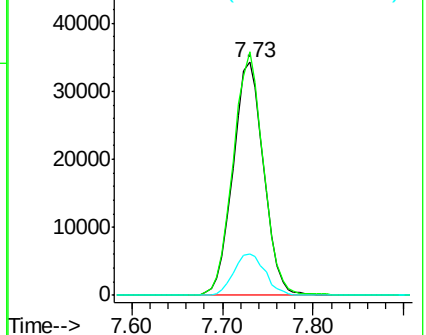
192 18.2 14.2 21.2



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: 4.66 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.15 min

Lab File: VY001915.D

Acq: 09 Mar 2020 17:54

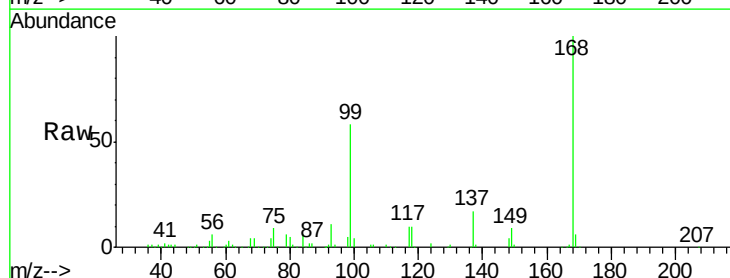
Tgt Ion: 75 Resp: 12302

Ion Ratio Lower Upper

75 100

110 3.2 17.4 52.2#

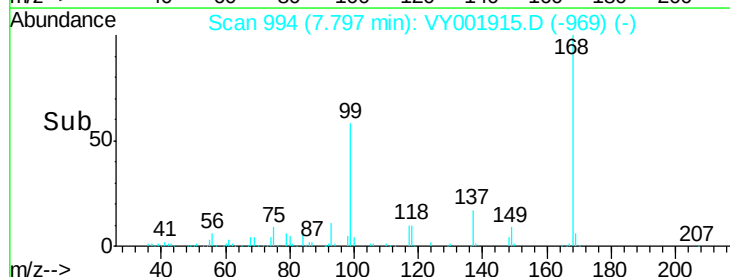
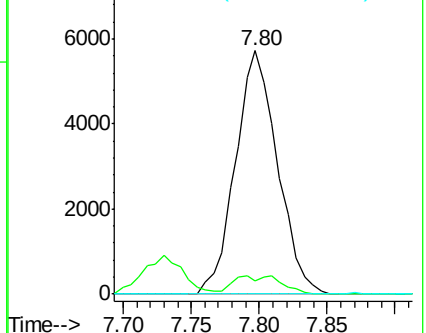
77 0.0 24.2 36.2#

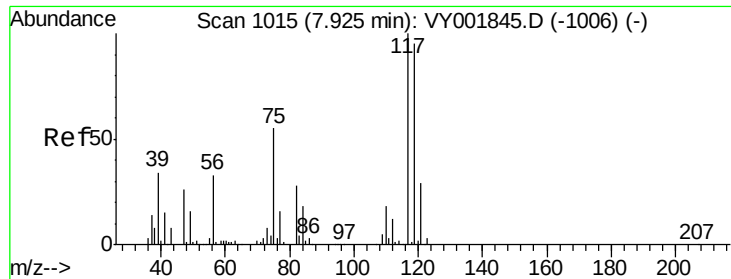


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

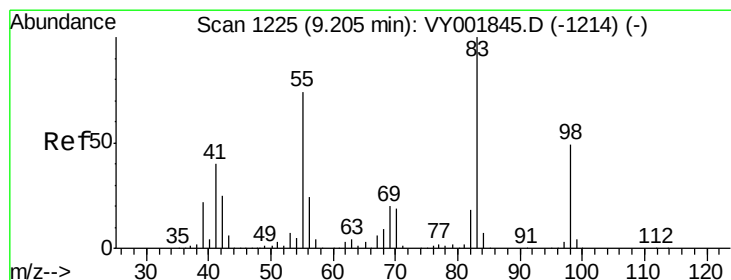
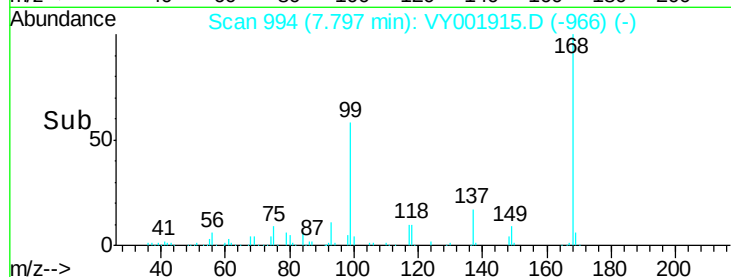
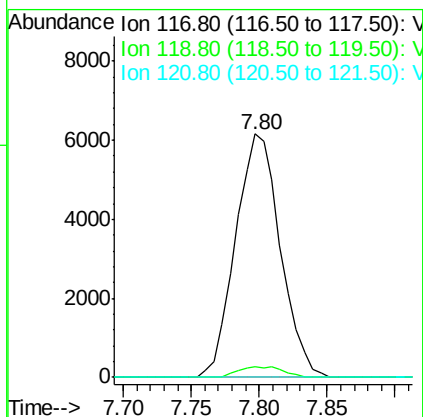
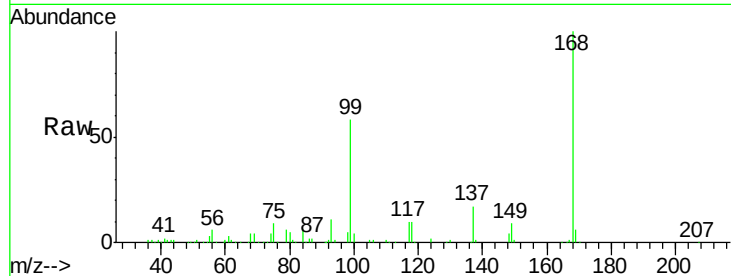




#38
Carbon Tetrachloride
Concen: 6.28 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.13 min
Lab File: VY001915.D
Acq: 09 Mar 2020 17:54

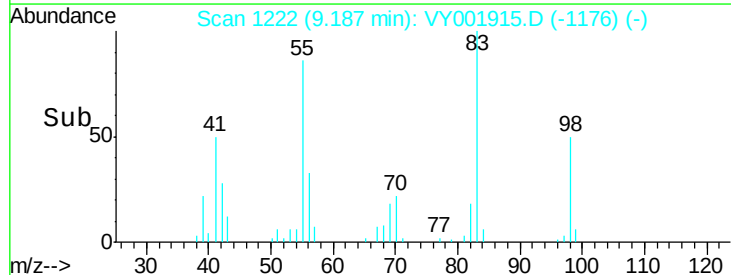
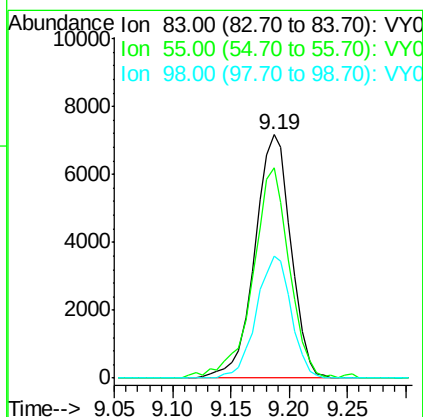
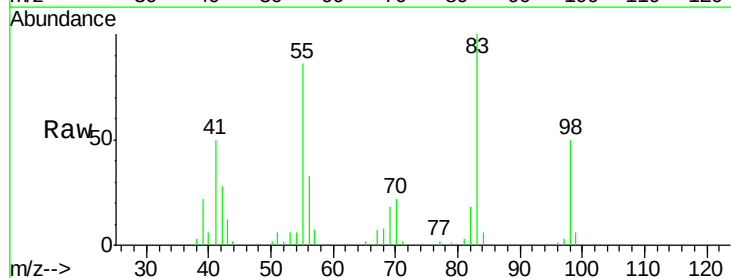
Instrument :
MSVOA_Y
ClientSampled :
TP-4-S2

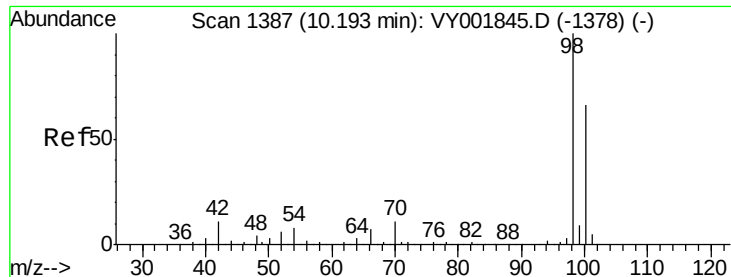
Tgt Ion: 117 Resp: 14185
Ion Ratio Lower Upper
117 100
119 4.2 76.3 114.5#
121 0.0 23.5 35.3#



#39
Methylcyclohexane
Concen: 4.42 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. -0.02 min
Lab File: VY001915.D
Acq: 09 Mar 2020 17:54

Tgt Ion: 83 Resp: 15479
Ion Ratio Lower Upper
83 100
55 86.4 59.4 89.0
98 49.9 38.9 58.3





#50

Toluene-d8

Concen: 52.38 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VY001915.D

Acq: 09 Mar 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

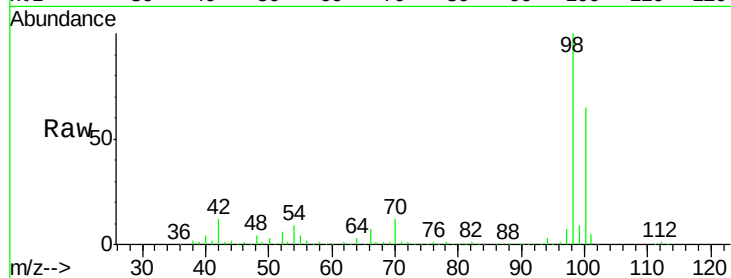
TP-4-S2

Tgt Ion: 98 Resp: 331193

Ion Ratio Lower Upper

98 100

100 66.1 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY001915.D (-1378) (-)

Ion 100.00 (99.70 to 100.70): VY001915.D (-1378) (-)

10.18

200000

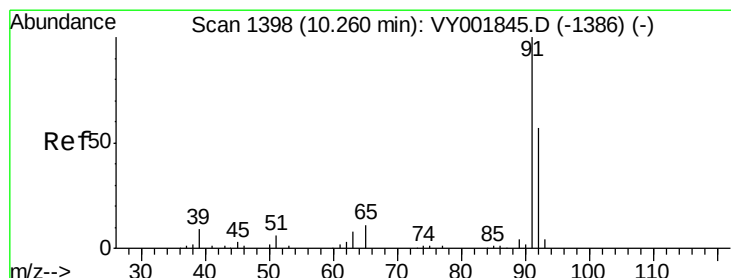
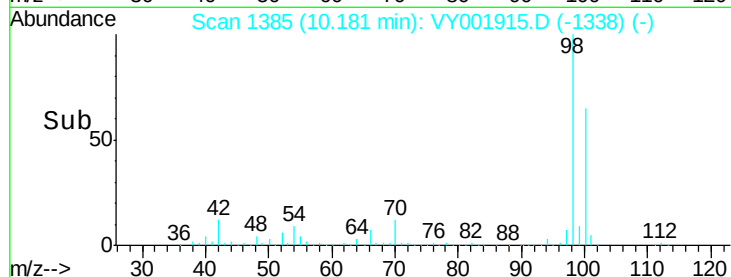
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 2.36 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. -0.01 min

Lab File: VY001915.D

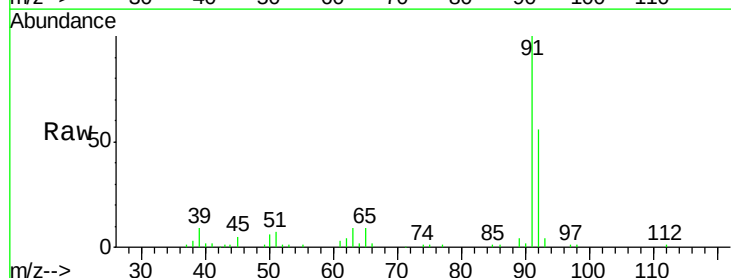
Acq: 09 Mar 2020 17:54

Tgt Ion: 92 Resp: 11241

Ion Ratio Lower Upper

92 100

91 174.0 138.6 208.0



Abundance Ion 92.00 (91.70 to 92.70): VY001915.D (-1349) (-)

Ion 91.00 (90.70 to 91.70): VY001915.D (-1349) (-)

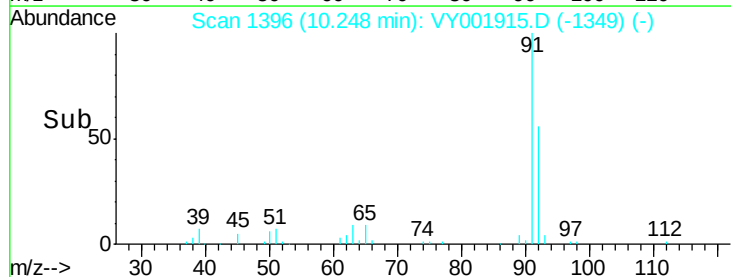
10.25

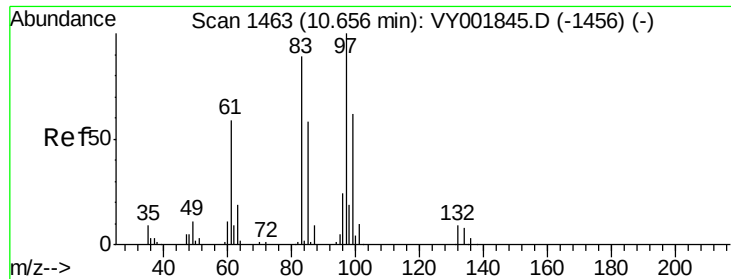
10000

5000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 5.82 ug/l

RT: 10.62 min Scan# 1457

Delta R.T. -0.04 min

Lab File: VY001915.D

Acq: 09 Mar 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

TP-4-S2

Tgt Ion: 97 Resp: 8638

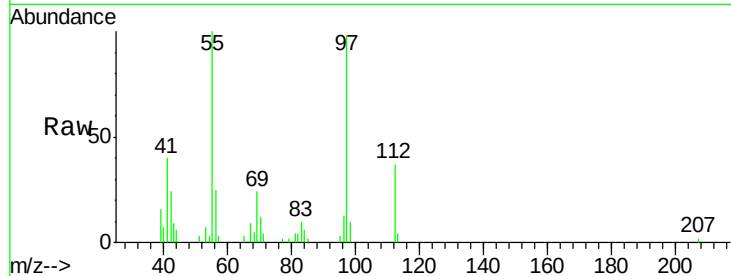
Ion Ratio Lower Upper

97 100

83 10.1 71.6 107.4#

85 1.6 46.6 69.8#

99 0.0 49.8 74.6#

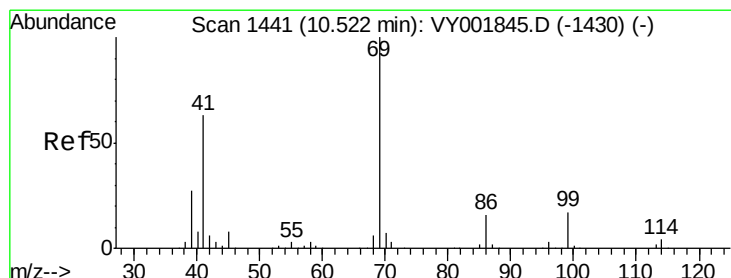
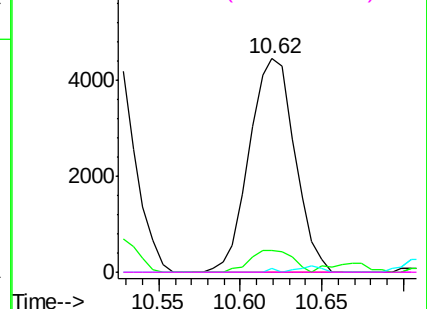
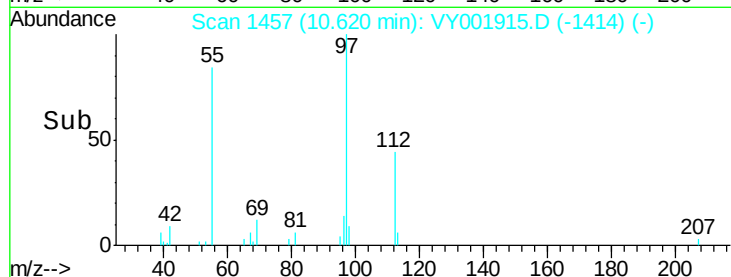


Abundance Ion 96.90 (96.60 to 97.60): VY0

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



#56

Ethyl methacrylate

Concen: 1.38 ug/l

RT: 10.52 min Scan# 1440

Delta R.T. -0.01 min

Lab File: VY001915.D

Acq: 09 Mar 2020 17:54

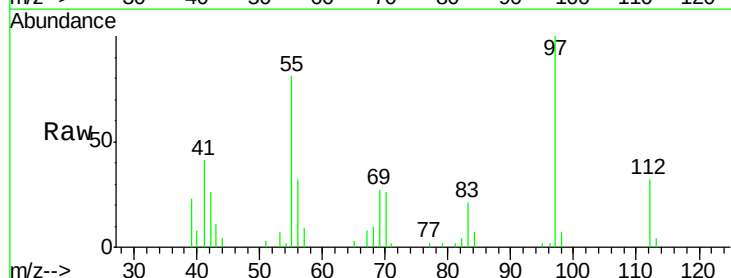
Tgt Ion: 69 Resp: 2999

Ion Ratio Lower Upper

69 100

41 136.7 49.9 74.9#

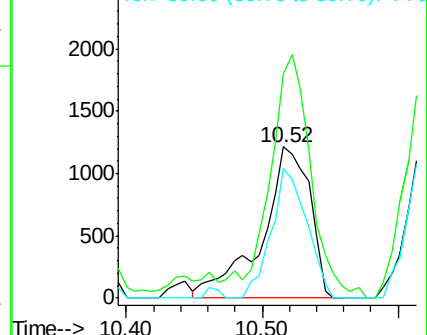
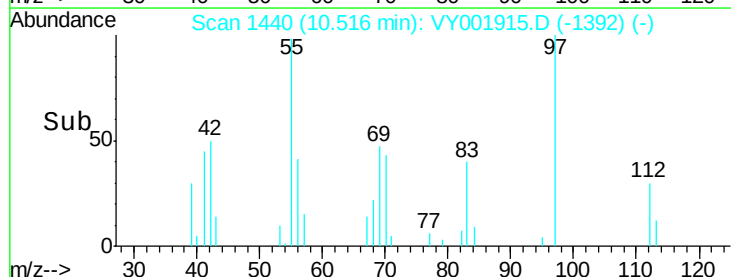
39 63.6 23.0 34.6#

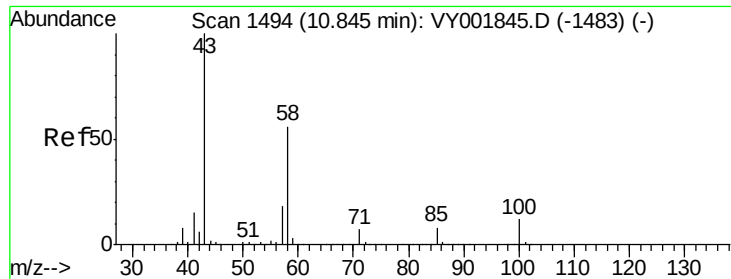


Abundance Ion 69.00 (68.70 to 69.70): VY0

Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

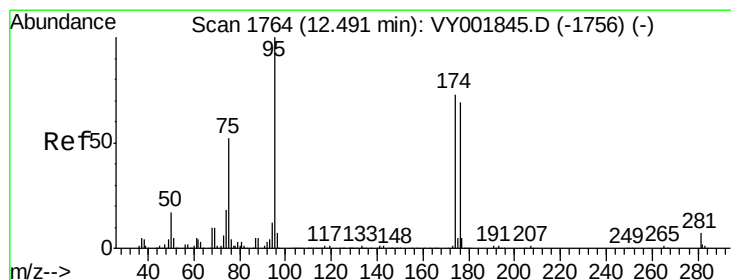
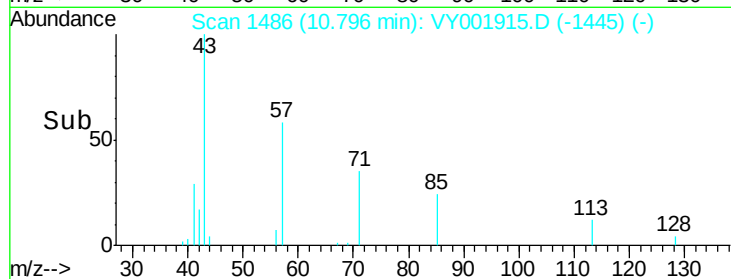
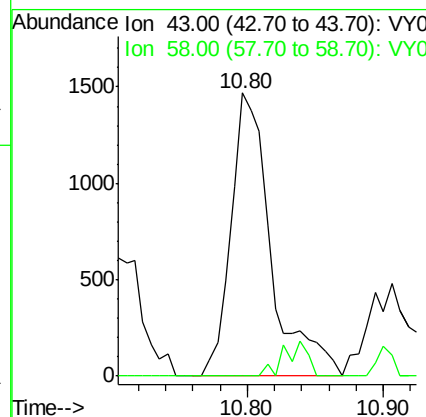
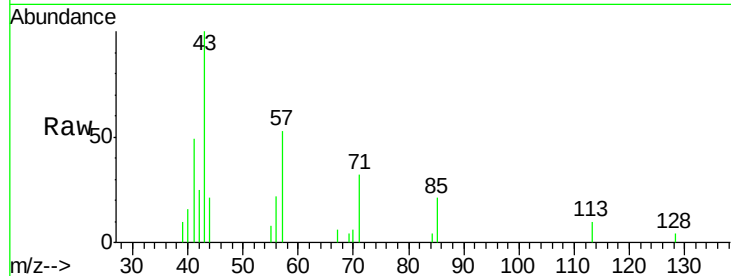




#59
2-Hexanone
Concen: 2.81 ug/l
RT: 10.80 min Scan# 1486
Delta R.T. -0.05 min
Lab File: VY001915.D
Acq: 09 Mar 2020 17:54

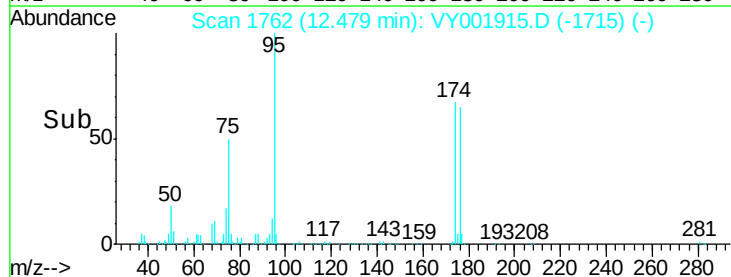
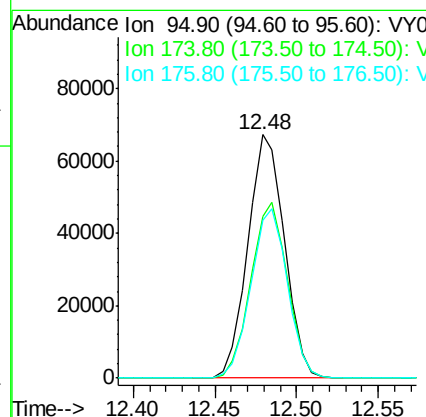
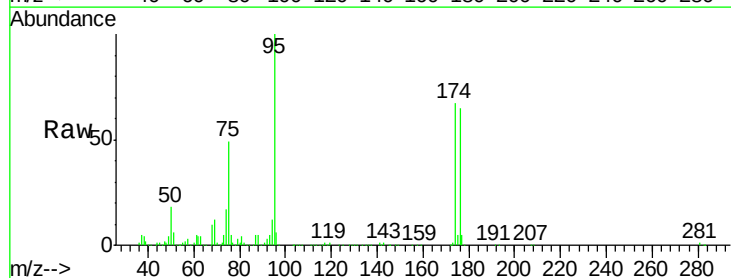
Instrument :
MSVOA_Y
ClientSampleId :
TP-4-S2

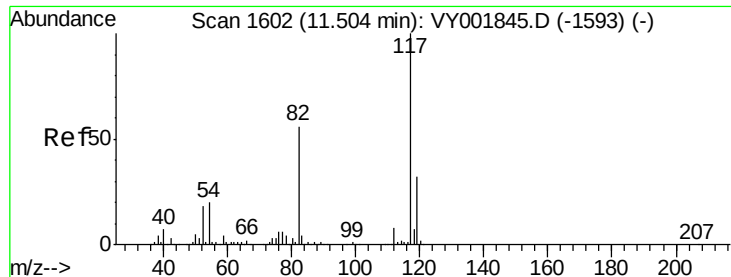
Tgt Ion: 43 Resp: 3008
Ion Ratio Lower Upper
43 100
58 0.0 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: 47.72 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.01 min
Lab File: VY001915.D
Acq: 09 Mar 2020 17:54

Tgt Ion: 95 Resp: 104924
Ion Ratio Lower Upper
95 100
174 72.4 0.0 145.0
176 69.9 0.0 137.4

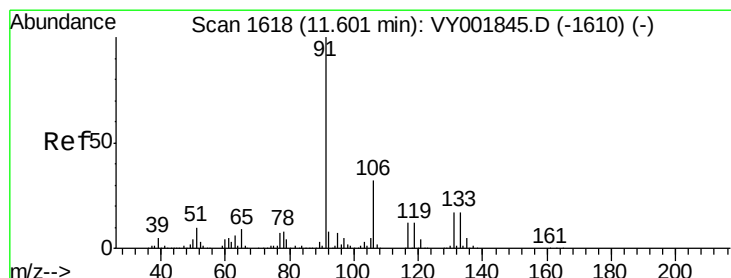
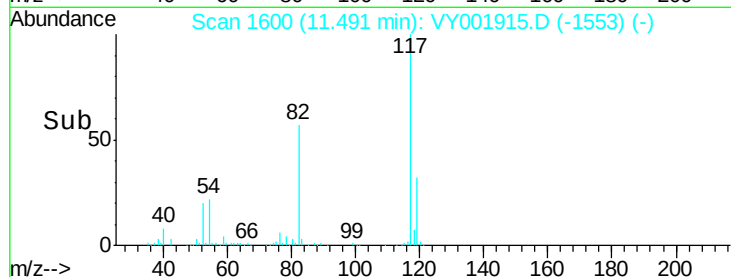
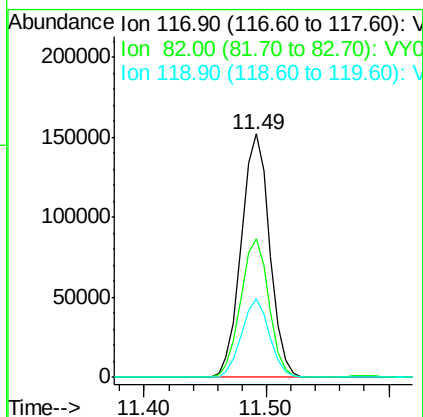
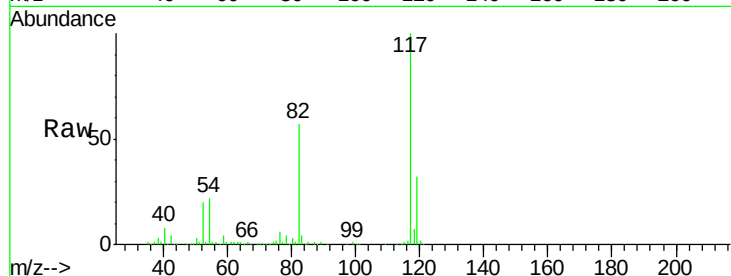




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY001915.D
Acq: 09 Mar 2020 17:54

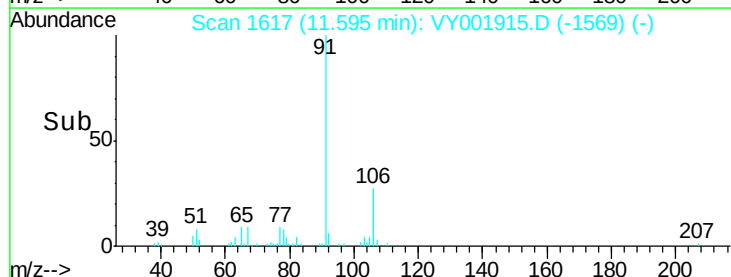
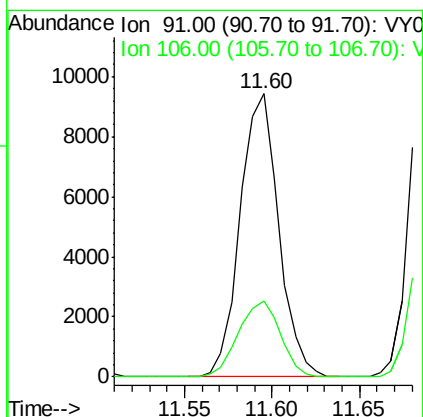
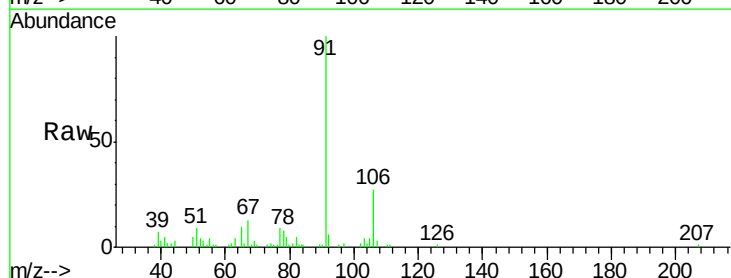
Instrument :
MSVOA_Y
ClientSampleId :
TP-4-S2

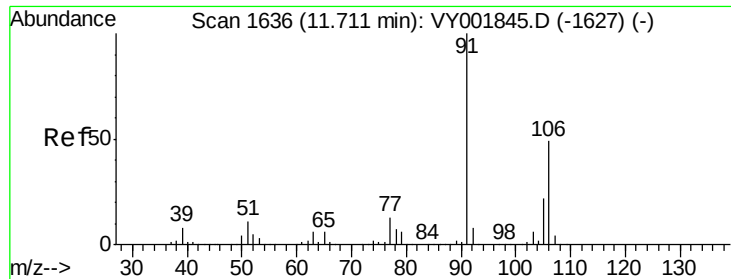
Tgt Ion: 117 Resp: 244298
Ion Ratio Lower Upper
117 100
82 56.9 44.5 66.7
119 32.1 25.7 38.5



#67
Ethyl Benzene
Concen: 1.59 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VY001915.D
Acq: 09 Mar 2020 17:54

Tgt Ion: 91 Resp: 14454
Ion Ratio Lower Upper
91 100
106 26.8 25.4 38.2

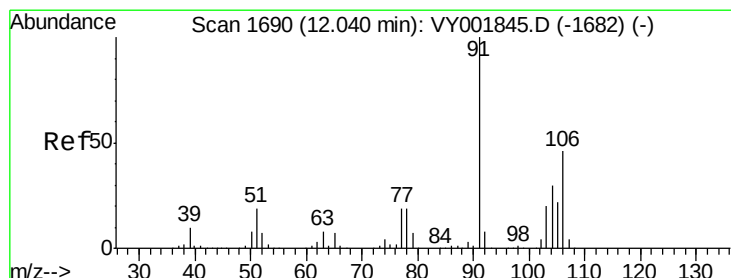
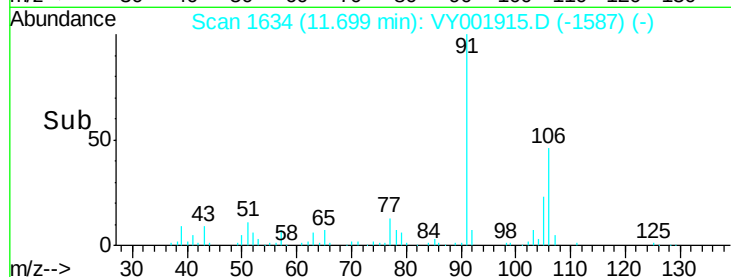
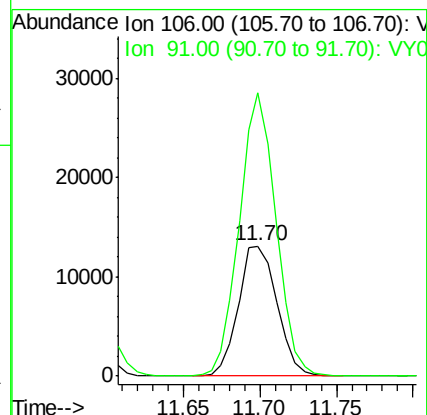
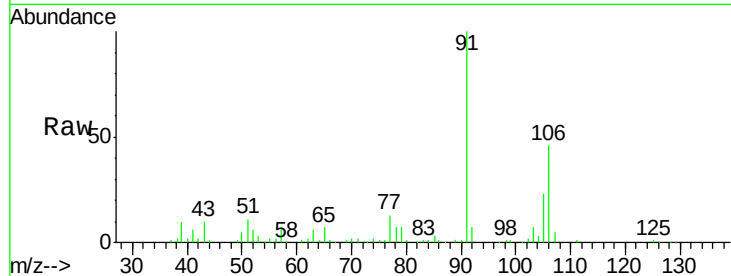




#68
m/p-Xylenes
Concen: 6.87 ug/l
RT: 11.70 min Scan# 1634
Delta R.T. -0.01 min
Lab File: VY001915.D
Acq: 09 Mar 2020 17:54

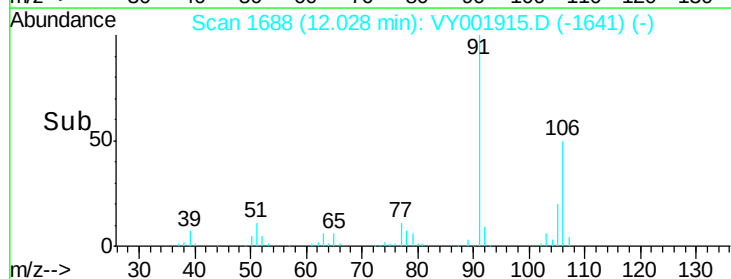
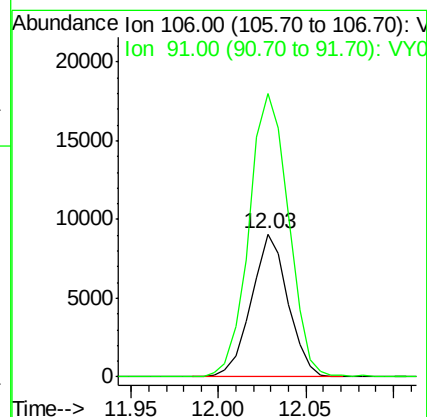
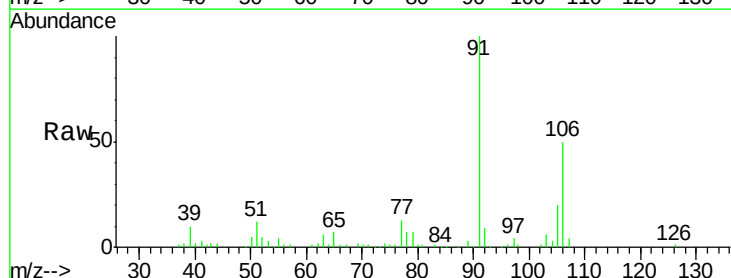
Instrument :
MSVOA_Y
ClientSampleId :
TP-4-S2

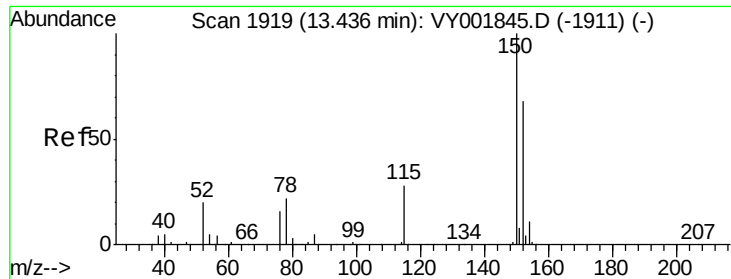
Tgt Ion:106 Resp: 23069
Ion Ratio Lower Upper
106 100
91 205.7 161.3 241.9



#69
o-Xylene
Concen: 4.16 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VY001915.D
Acq: 09 Mar 2020 17:54

Tgt Ion:106 Resp: 13164
Ion Ratio Lower Upper
106 100
91 214.3 106.8 320.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. -0.01 min

Lab File: VY001915.D

Acq: 09 Mar 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

TP-4-S2

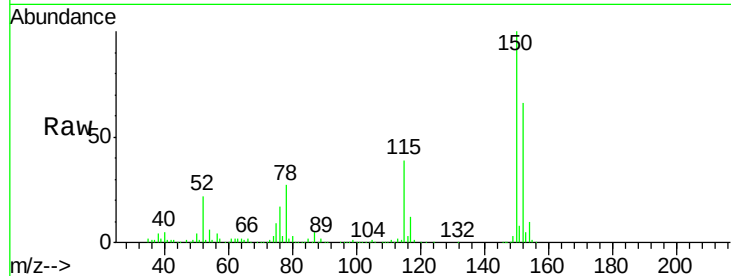
Tgt Ion:152 Resp: 93010

Ion Ratio Lower Upper

152 100

115 62.4 29.9 89.7

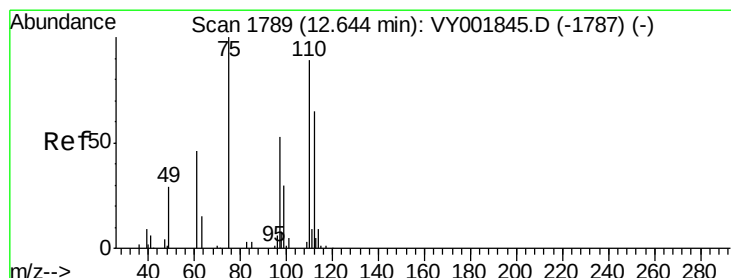
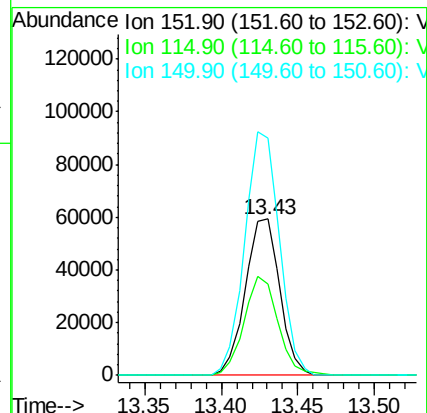
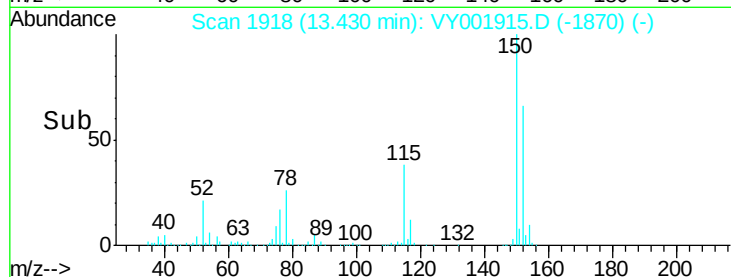
150 156.5 0.0 340.6



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



#76

1,2,3-Trichloropropane

Concen: 48.62 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.16 min

Lab File: VY001915.D

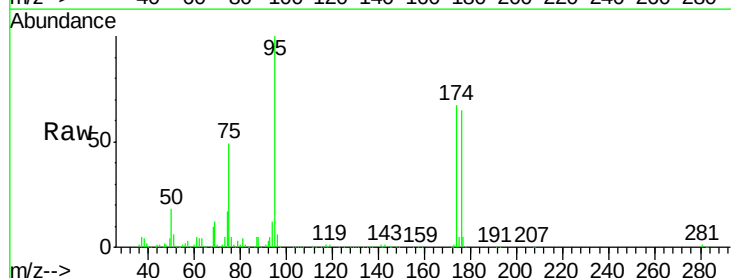
Acq: 09 Mar 2020 17:54

Tgt Ion: 75 Resp: 53661

Ion Ratio Lower Upper

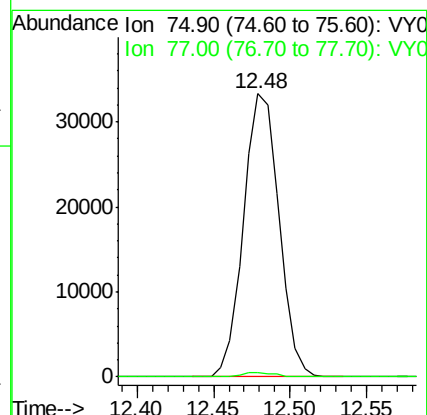
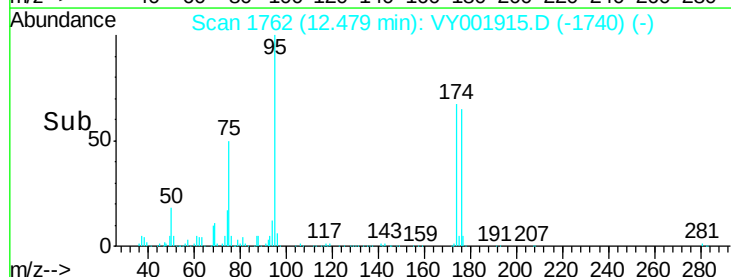
75 100

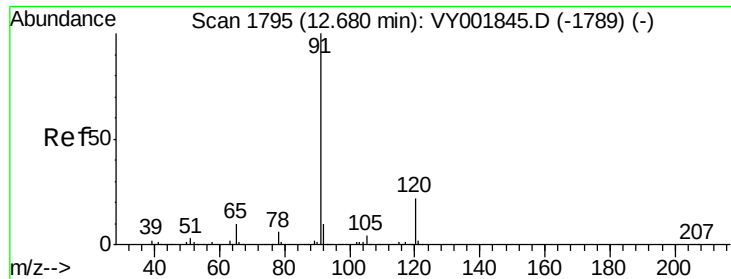
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#78

n-propylbenzene

Concen: 1.26 ug/l

RT: 12.67 min Scan# 1794

Delta R.T. -0.01 min

Lab File: VY001915.D

Acq: 09 Mar 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

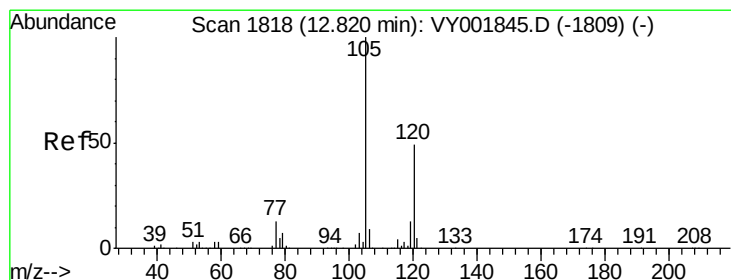
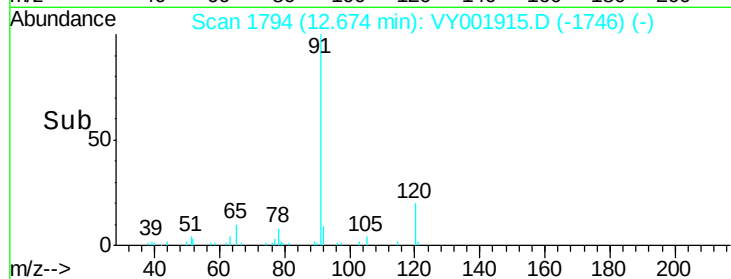
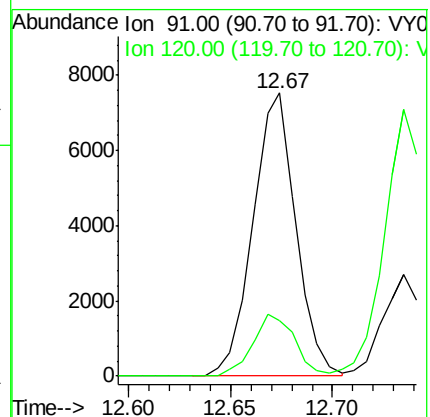
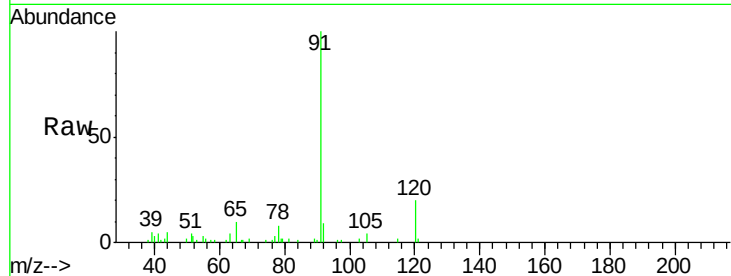
TP-4-S2

Tgt Ion: 91 Resp: 11021

Ion Ratio Lower Upper

91 100

120 21.4 11.0 33.0



#80

1,3,5-Trimethylbenzene

Concen: 5.48 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. -0.01 min

Lab File: VY001915.D

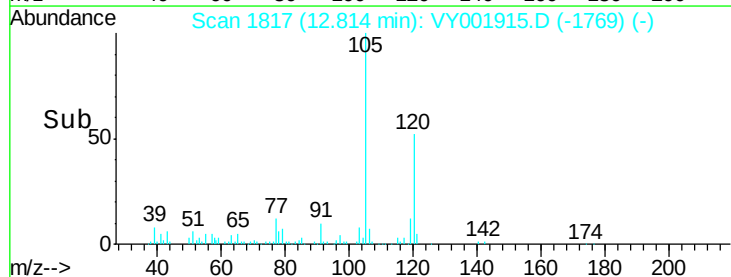
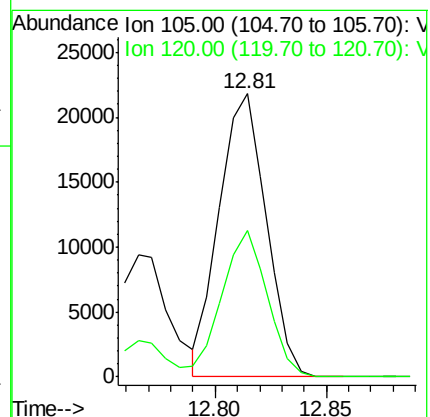
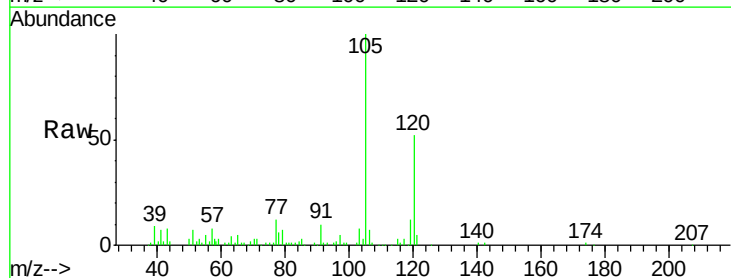
Acq: 09 Mar 2020 17:54

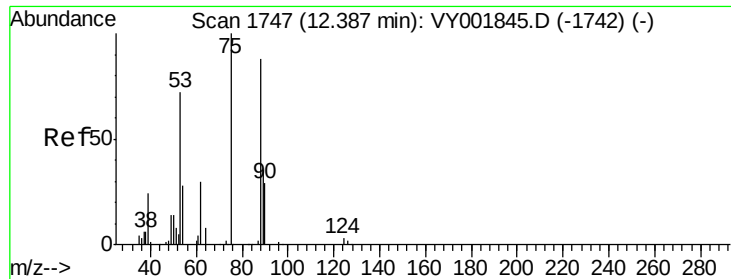
Tgt Ion: 105 Resp: 32018

Ion Ratio Lower Upper

105 100

120 50.1 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 98.21 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.09 min

Lab File: VY001915.D

Acq: 09 Mar 2020 17:54

Instrument :

MSVOA_Y

ClientSampleId :

TP-4-S2

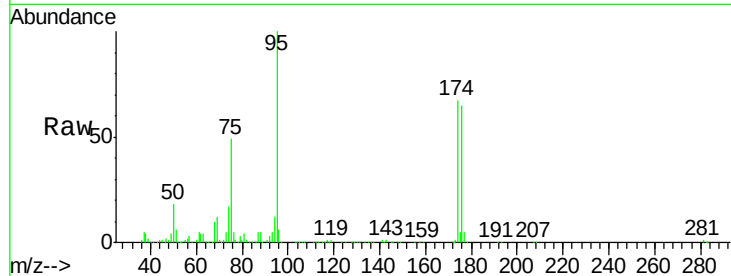
Tgt Ion: 75 Resp: 53661

Ion Ratio Lower Upper

75 100

53 0.3 65.4 98.0#

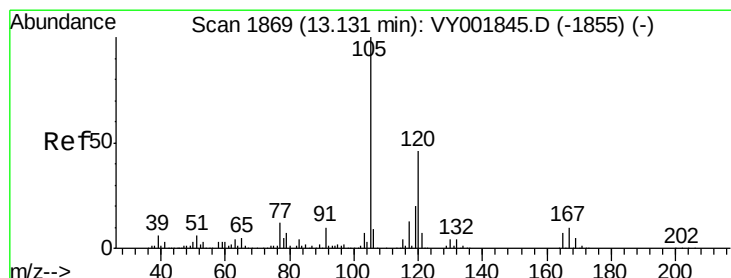
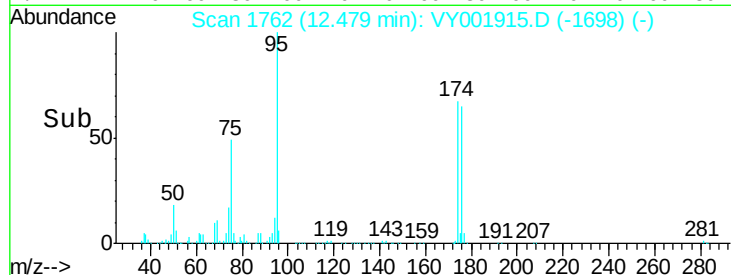
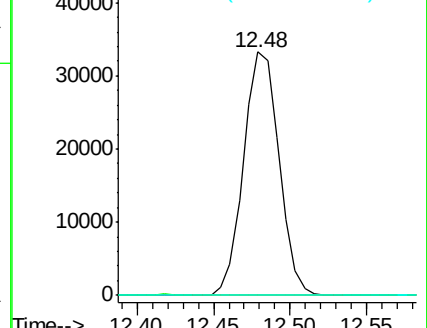
89 0.1 36.0 54.0#



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



#84

1,2,4-Trimethylbenzene

Concen: 12.63 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.01 min

Lab File: VY001915.D

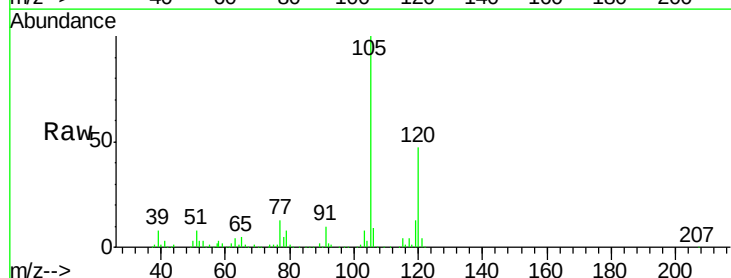
Acq: 09 Mar 2020 17:54

Tgt Ion: 105 Resp: 73254

Ion Ratio Lower Upper

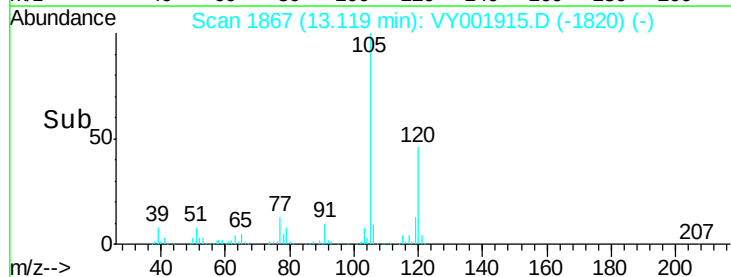
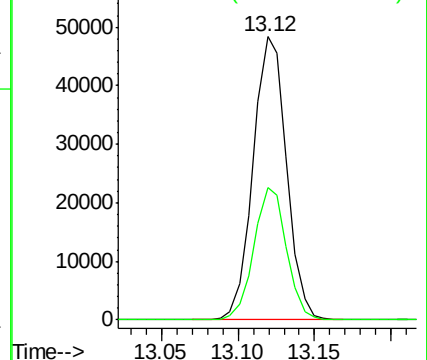
105 100

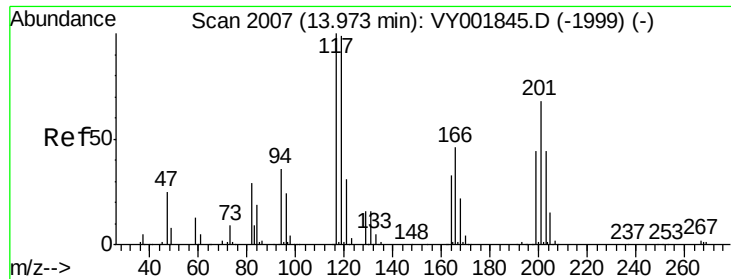
120 45.6 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 1.12 ug/l

RT: 13.97 min Scan# 2007

Delta R.T. 0.00 min

Lab File: VY001915.D

Acq: 09 Mar 2020 17:54

Instrument :

MSVOA_Y

ClientSampled :

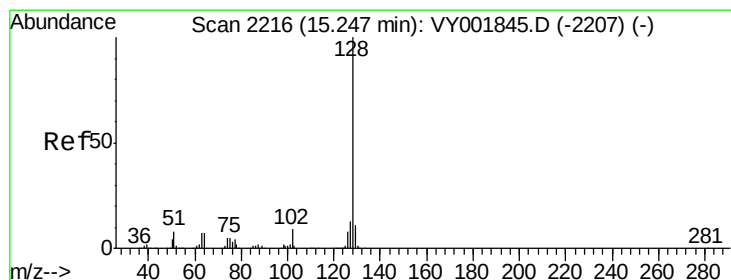
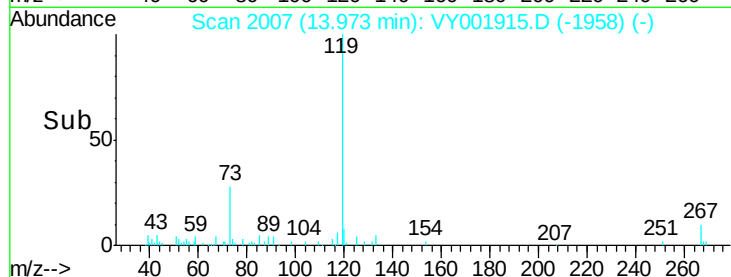
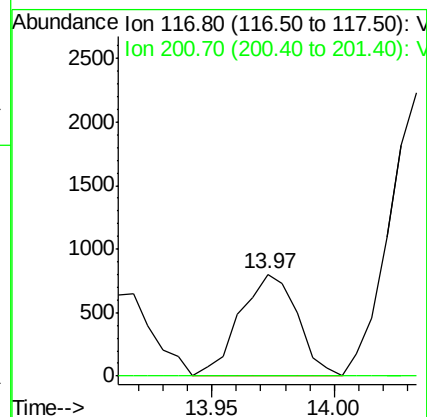
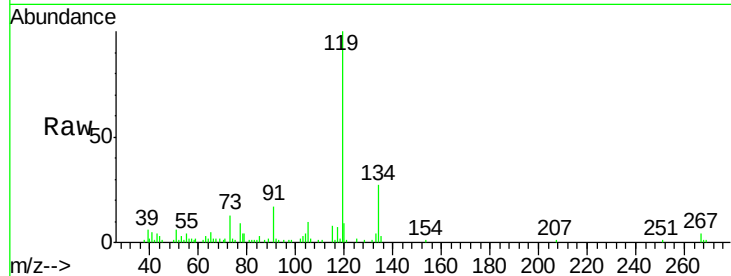
TP-4-S2

Tgt Ion:117 Resp: 1306

Ion Ratio Lower Upper

117 100

201 0.0 32.5 97.5#



#95

Naphthalene

Concen: 2.90 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VY001915.D

Acq: 09 Mar 2020 17:54

Tgt Ion:128 Resp: 11951

Ion Ratio Lower Upper

128 100

127 13.6 10.1 15.1

129 15.1 8.6 13.0#

