

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY112019\
 Data File : VY000758.D
 Acq On : 20 Nov 2019 17:38
 Operator : SY/MD
 Sample : K5951-01RE
 Misc : 6.23G/5ML/MSVOA Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Nov 21 07:44:24 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	339067	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	601496	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	505111	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	220122	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	171353	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
35) Dibromofluoromethane	7.72	113	167972	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	
50) Toluene-d8	10.18	98	685252	51.14	ug/l	0.00
Spiked Amount			Recovery	=	102.28%	
62) 4-Bromofluorobenzene	12.48	95	234211	45.92	ug/l	0.00
Spiked Amount			Recovery	=	91.84%	

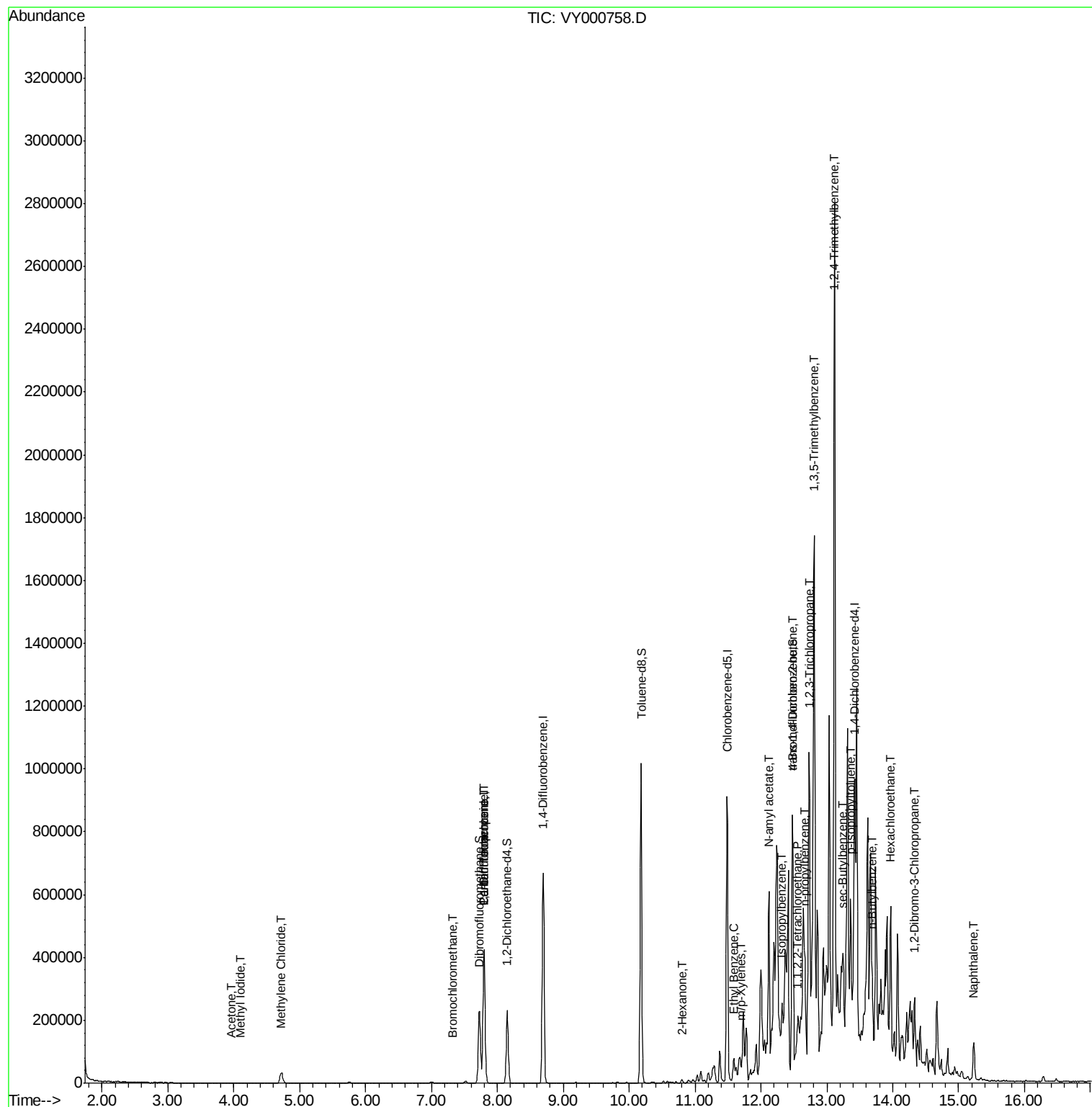
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	4.10	142	262	3.253	ug/l #	41
16) Acetone	3.96	43	1617	1.672	ug/l	89
20) Methylene Chloride	4.72	84	27024	6.521	ug/l	88
28) Bromochloromethane	7.32	49	59	4.111	ug/l #	14
36) 1,1-Dichloropropene	7.80	75	26231	4.613	ug/l #	50
38) Carbon Tetrachloride	7.80	117	32895	6.012	ug/l #	15
59) 2-Hexanone	10.80	43	4184	1.703	ug/l #	27
67) Ethyl Benzene	11.59	91	46759	2.481	ug/l	96
68) m/p-Xylenes	11.70	106	8705	1.193	ug/l	100
73) Isopropylbenzene	12.33	105	54551	3.353	ug/l	98
74) N-amyl acetate	12.12	43	106507	22.859	ug/l #	62
75) 1,1,2,2-Tetrachloroethane	12.54	83	11377	3.532	ug/l #	25
76) 1,2,3-Trichloropropane	12.73	75	4002	1.597	ug/l #	100
78) n-propylbenzene	12.67	91	229903	11.712	ug/l	98
80) 1,3,5-Trimethylbenzene	12.81	105	479440	35.385	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.47	75	110637	98.972	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.11	105	1470031	108.967	ug/l	100
85) sec-Butylbenzene	13.25	105	102494	6.218	ug/l #	68
86) p-Isopropyltoluene	13.36	119	111923	7.619	ug/l	97
89) n-Butylbenzene	13.69	91	121583	8.392	ug/l #	81
90) Hexachloroethane	13.97	117	19583	7.211	ug/l #	14
92) 1,2-Dibromo-3-Chloropropan	14.33	75	1065	1.868	ug/l #	1
95) Naphthalene	15.23	128	99457	10.036	ug/l	99

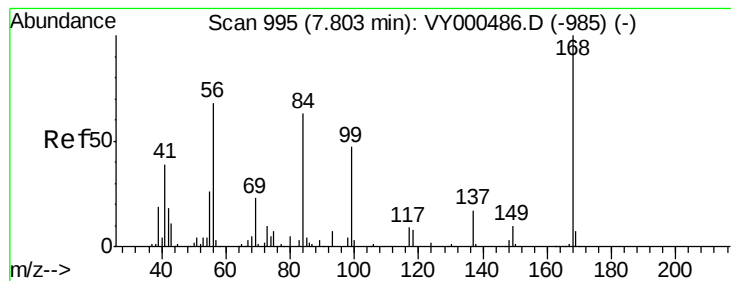
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY112019\
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Instrument :
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Quant Time: Nov 21 07:44:24 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:30:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

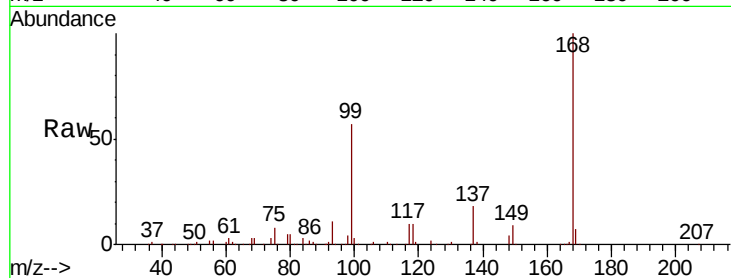
Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:168 Resp: 339067

Ion Ratio Lower Upper

168 100

99 56.9 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

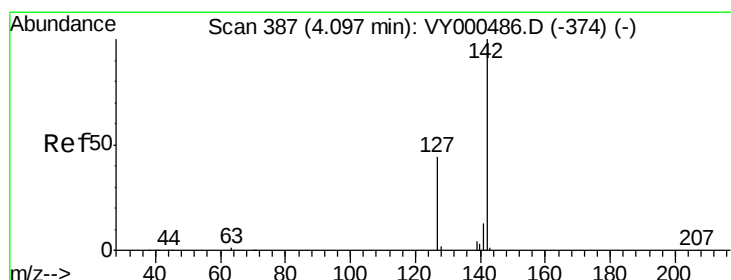
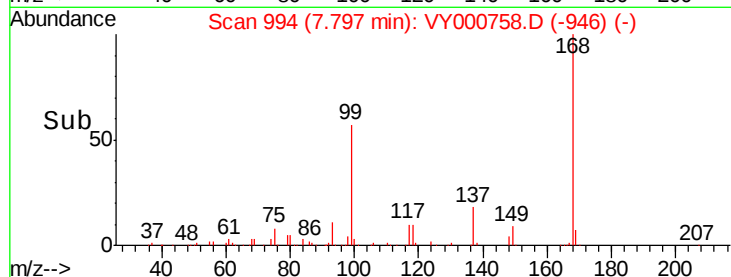
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 3.253 ug/l

RT: 4.10 min Scan# 387

Delta R.T. 0.00 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

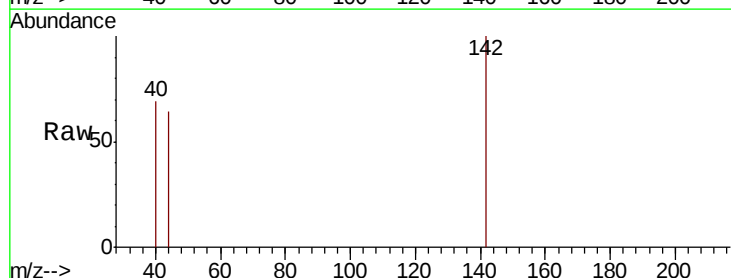
Tgt Ion:142 Resp: 262

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

4.10

200

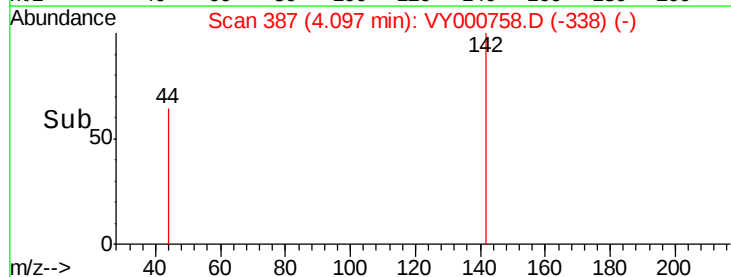
150

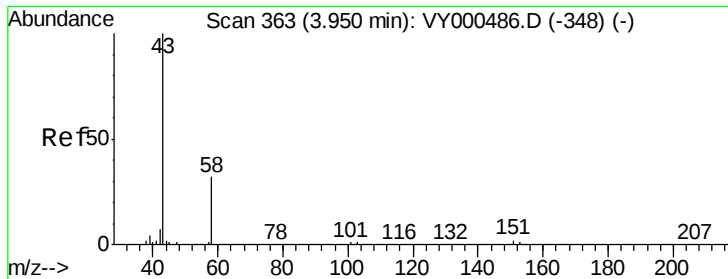
100

50

0

Time-->





#16

Acetone

Concen: 1.672 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

Instrument :

MSVOA_Y

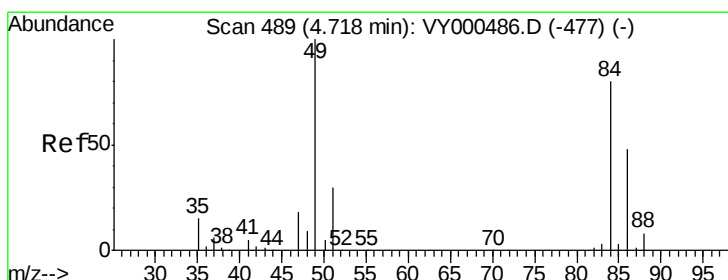
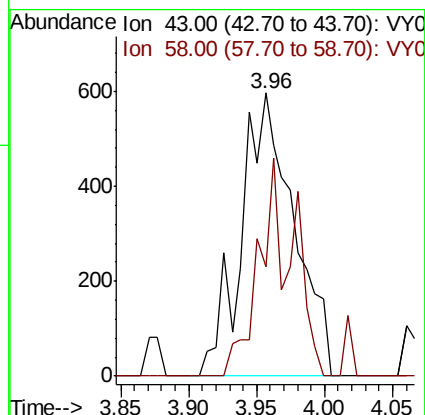
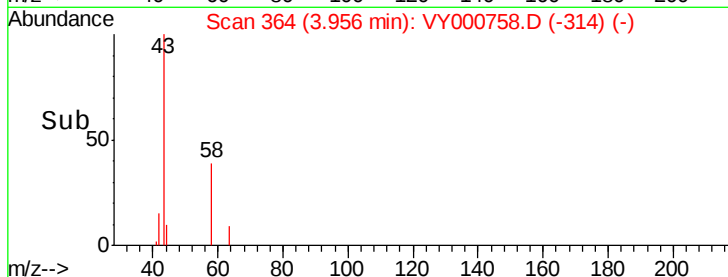
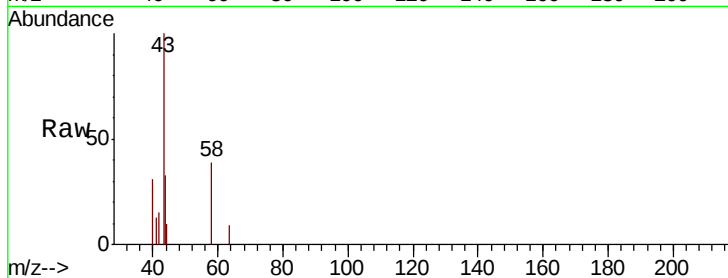
ClientSampleId :

Tot Ion: 43 Resp: 1617

Ion Ratio Lower Upper

43 100

58 38.5 25.8 38.6



#20

Methylene Chloride

Concen: 6.521 ug/l

RT: 4.72 min Scan# 489

Delta R.T. 0.00 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

Tgt Ion: 84 Resp: 27024

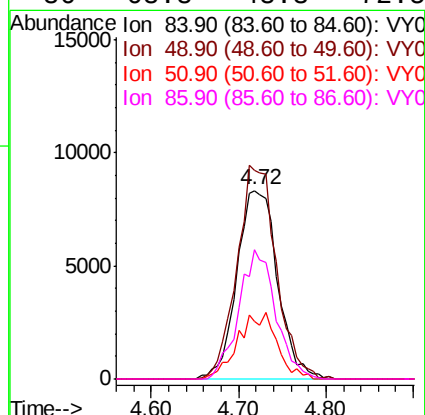
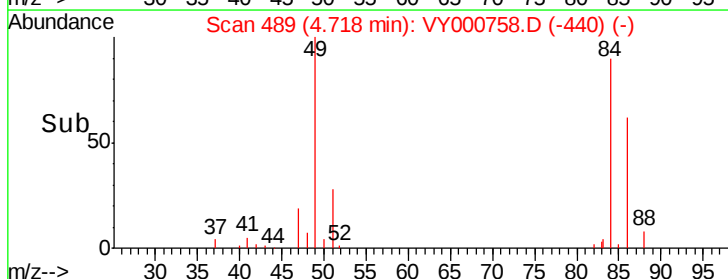
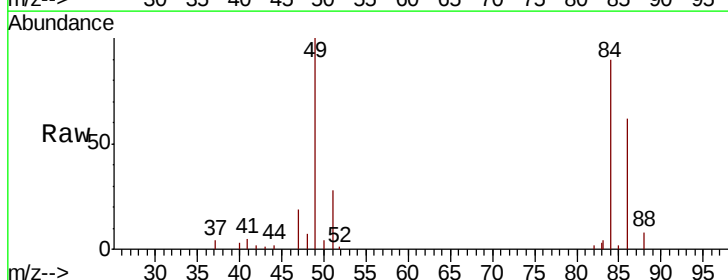
Ion Ratio Lower Upper

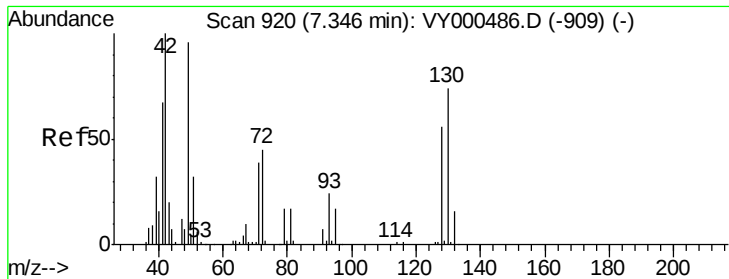
84 100

49 110.5 100.2 150.4

51 30.9 29.6 44.4

86 68.8 48.3 72.5





#28

Bromochloromethane

Concen: 4.111 ug/l

RT: 7.32 min Scan# 915

Delta R.T. -0.03 min

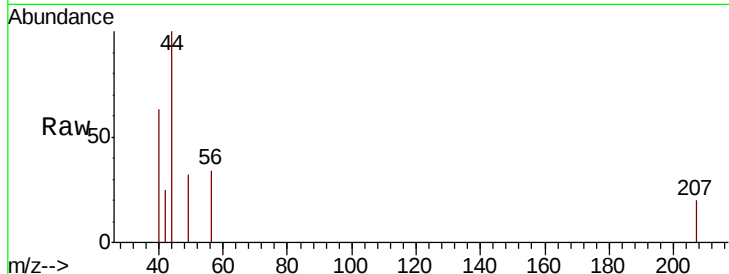
Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 49 Resp: 59

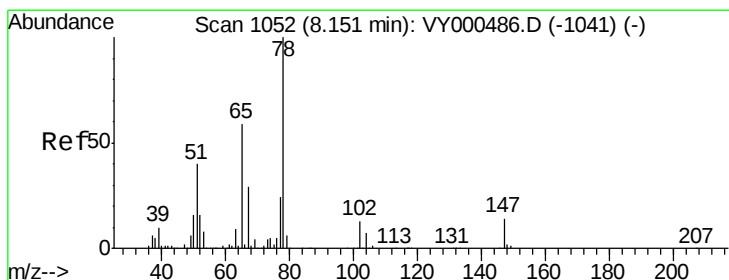
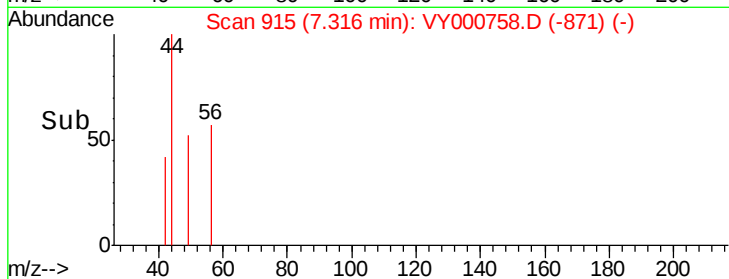
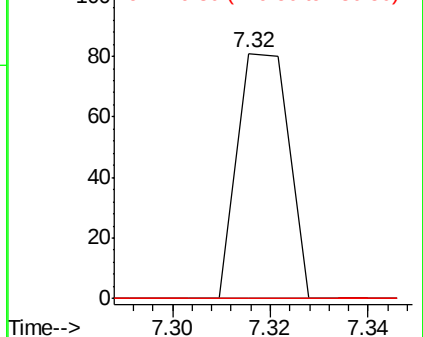
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	59.4	89.0#



Abundance Ion 48.90 (48.60 to 49.60): VY0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 48.834 ug/l

RT: 8.15 min Scan# 1052

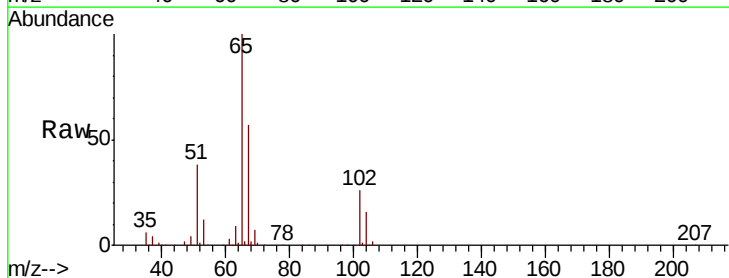
Delta R.T. 0.00 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

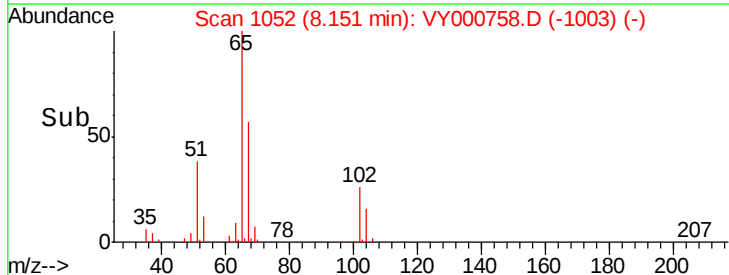
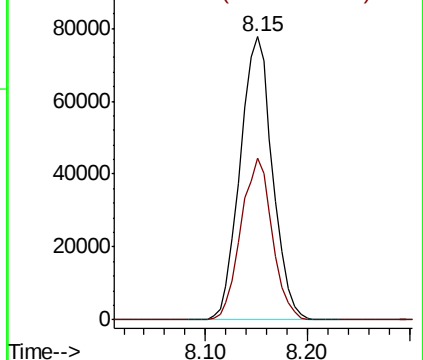
Tgt Ion: 65 Resp: 171353

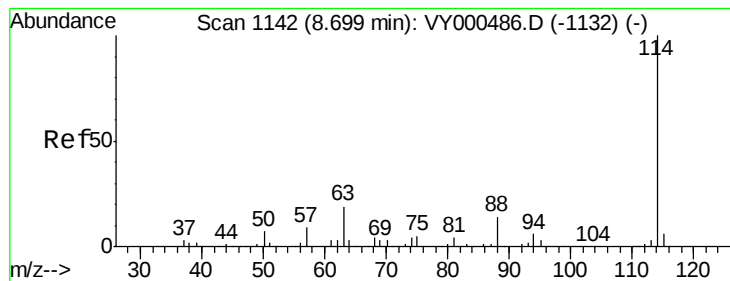
Ion	Ratio	Lower	Upper
65	100		
67	55.3	0.0	107.2



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: VY000758.D

Acq: 20 Nov 2019 17:38

Instrument :

MSVOA_Y

ClientSampleId :

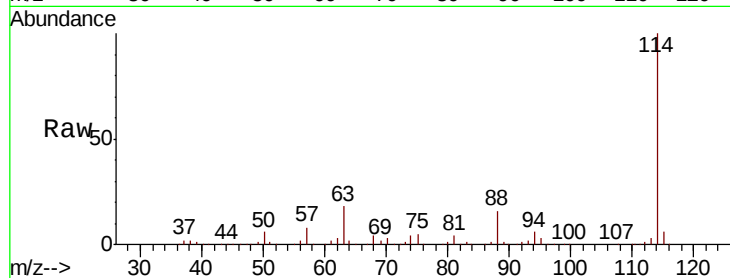
Tot Ion:114 Resp: 601496

Ion Ratio Lower Upper

114 100

63 18.4 0.0 38.0

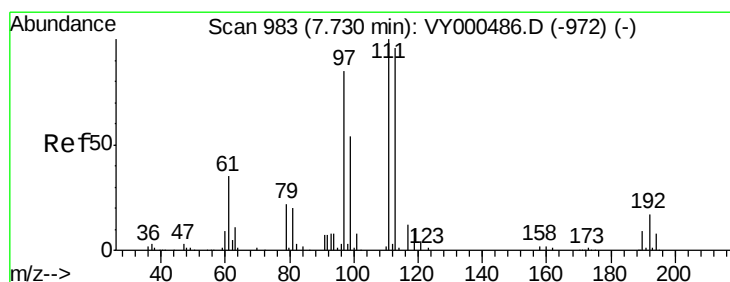
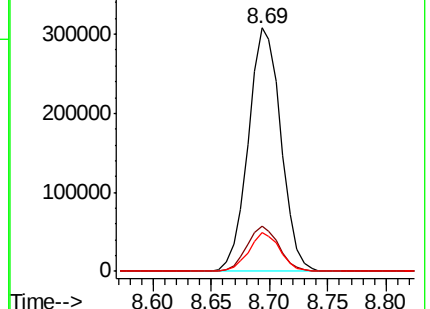
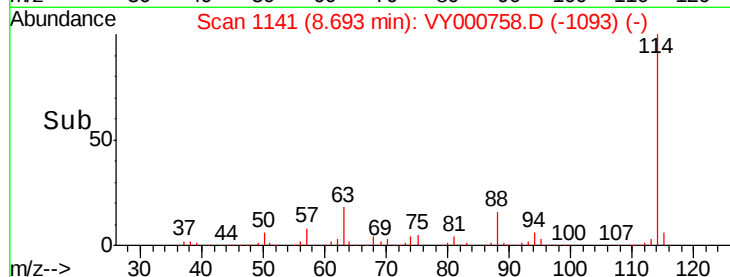
88 15.8 0.0 28.6



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: 47.568 ug/l

RT: 7.72 min Scan# 982

Delta R.T. -0.01 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

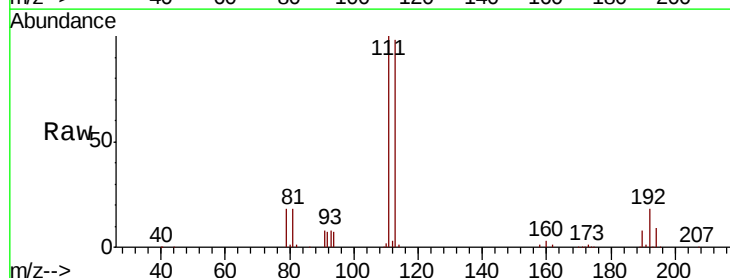
Tgt Ion:113 Resp: 167972

Ion Ratio Lower Upper

113 100

111 105.1 81.7 122.5

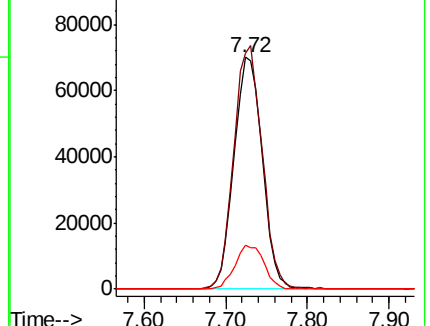
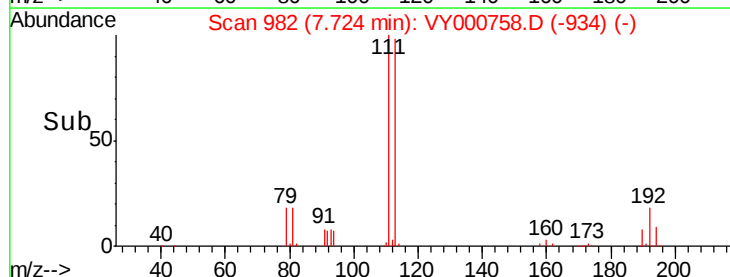
192 19.4 15.0 22.4

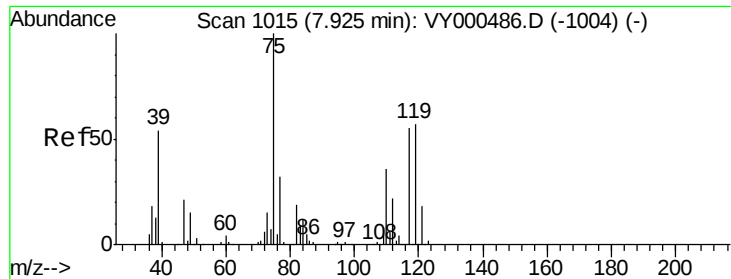


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

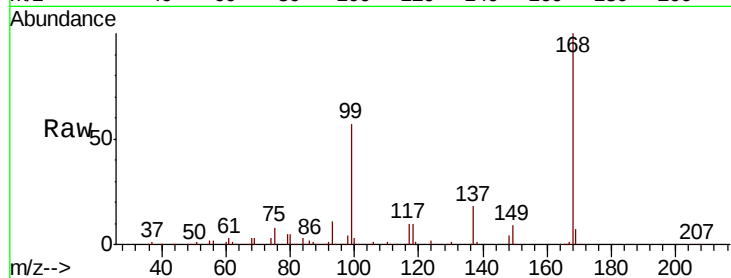




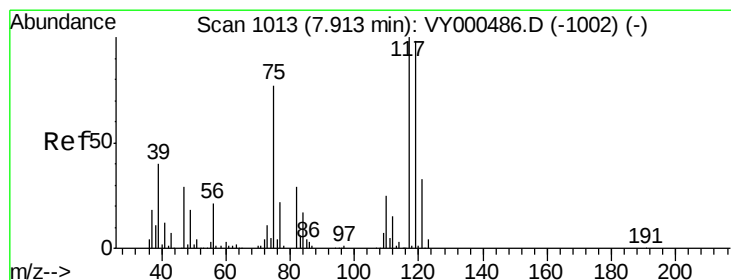
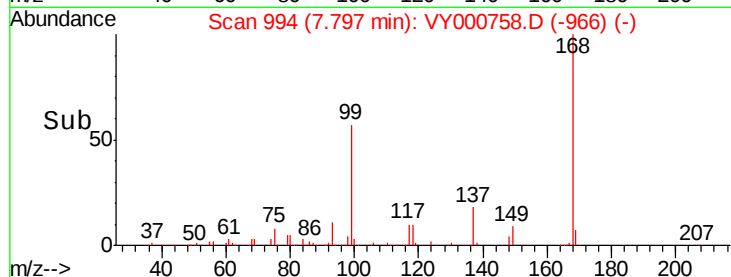
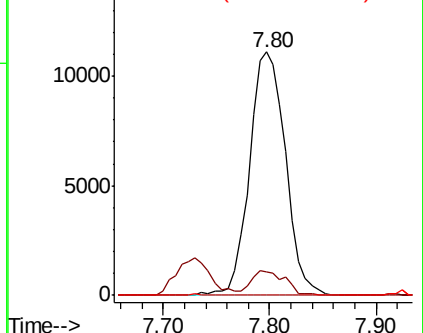
#36
 1,1-Dichloropropene
 Concen: 4.613 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY000758.D
 Acq: 20 Nov 2019 17:38

Instrument :
 MSVOA_Y
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.8	18.1	54.1#
77	0.0	25.0	37.6#

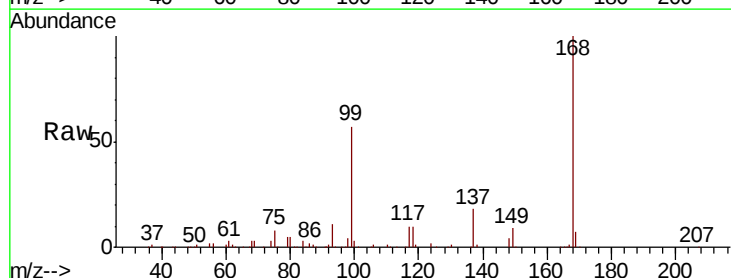


Abundance Ion 74.90 (74.60 to 75.60): VY000486.D (-1004) (-)
 Ion 109.90 (109.60 to 110.60): VY000486.D (-1004) (-)
 Ion 76.90 (76.60 to 77.60): VY000486.D (-1004) (-)

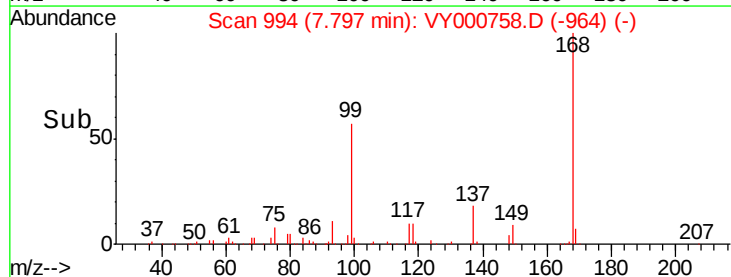
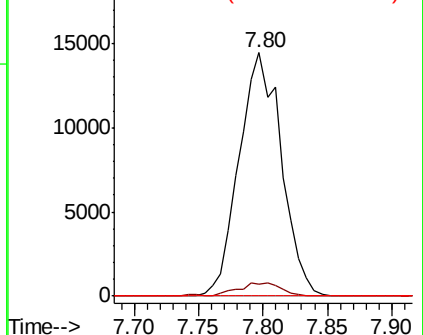


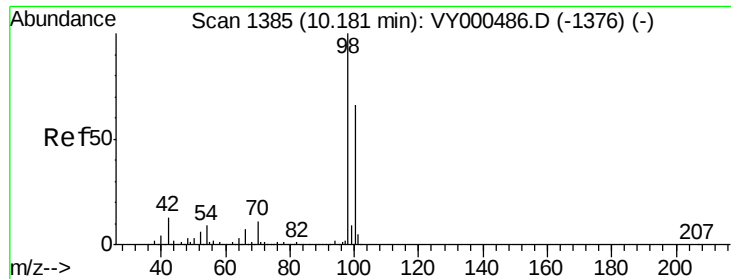
#38
 Carbon Tetrachloride
 Concen: 6.012 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.12 min
 Lab File: VY000758.D
 Acq: 20 Nov 2019 17:38

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	78.0	117.0#
121	0.0	26.6	40.0#



Abundance Ion 116.80 (116.50 to 117.50): VY000486.D (-1002) (-)
 Ion 118.80 (118.50 to 119.50): VY000486.D (-1002) (-)
 Ion 120.80 (120.50 to 121.50): VY000486.D (-1002) (-)





#50

Toluene-d8

Concen: 51.142 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

Instrument :

MSVOA_Y

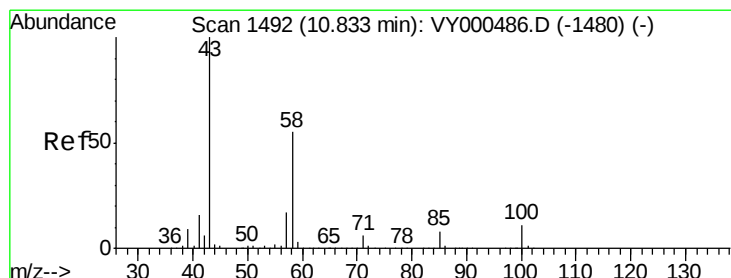
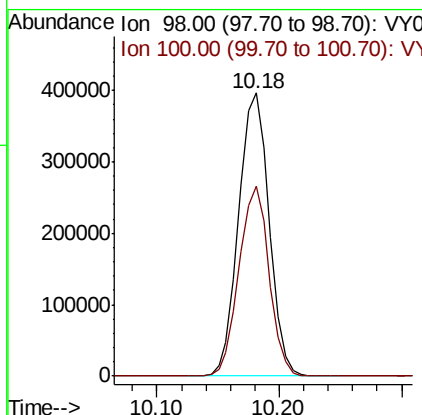
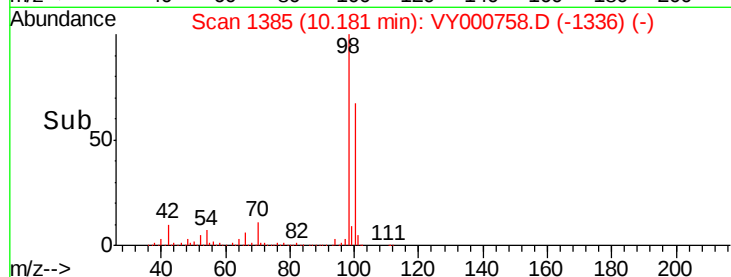
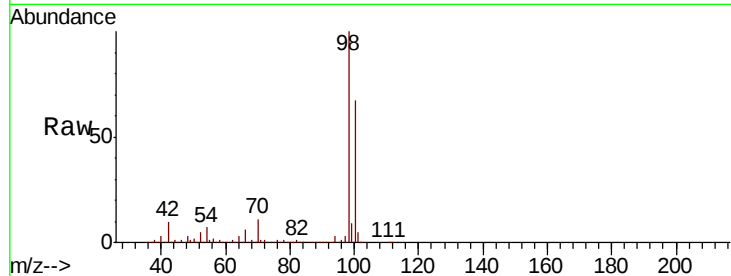
ClientSampleId :

Tot Ion: 98 Resp: 685252

Ion Ratio Lower Upper

98 100

100 65.9 52.9 79.3



#59

2-Hexanone

Concen: 1.703 ug/l

RT: 10.80 min Scan# 1486

Delta R.T. -0.04 min

Lab File: VY000758.D

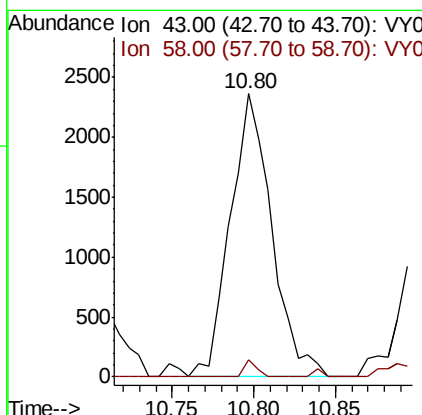
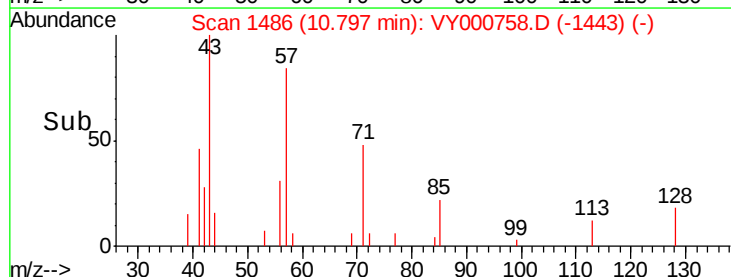
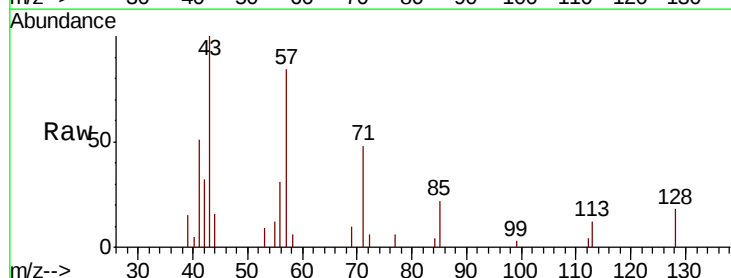
Acq: 20 Nov 2019 17:38

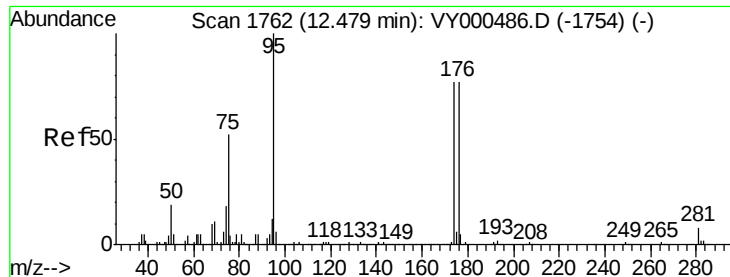
Tgt Ion: 43 Resp: 4184

Ion Ratio Lower Upper

43 100

58 1.7 27.1 81.3#

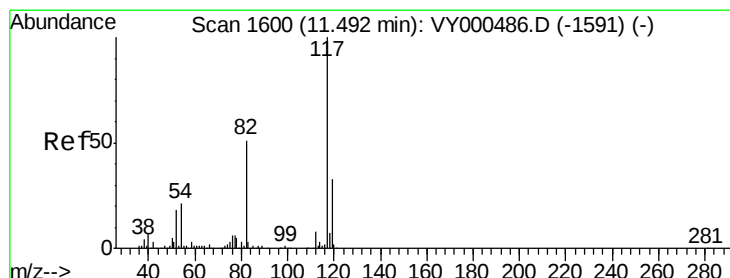
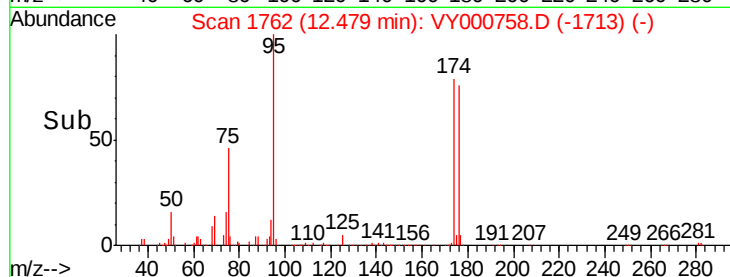
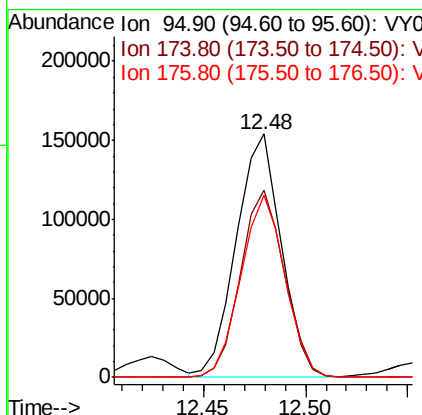
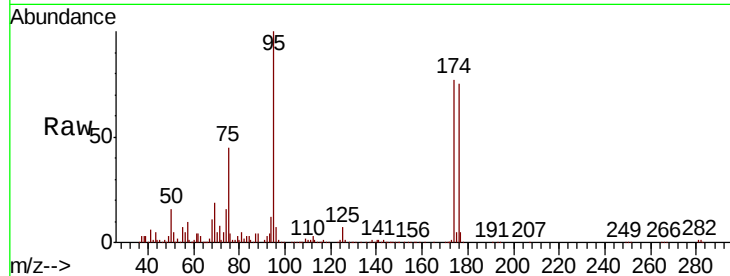




#62
4-Bromofluorobenzene
Concen: 45.916 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VY000758.D
Acq: 20 Nov 2019 17:38

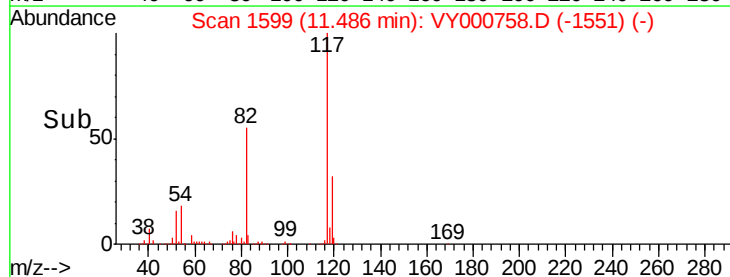
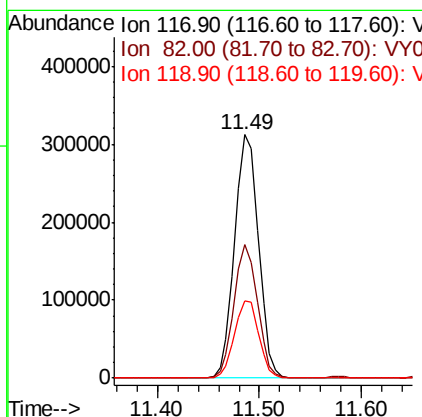
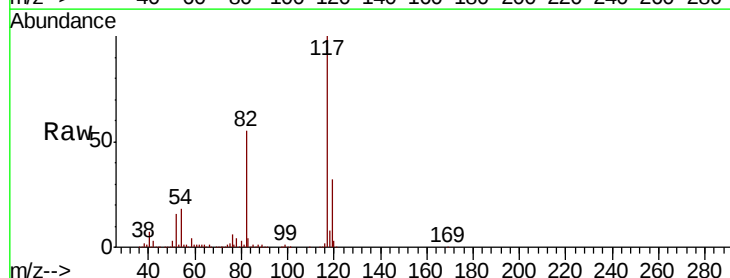
Instrument :
MSVOA_Y
ClientSampled :

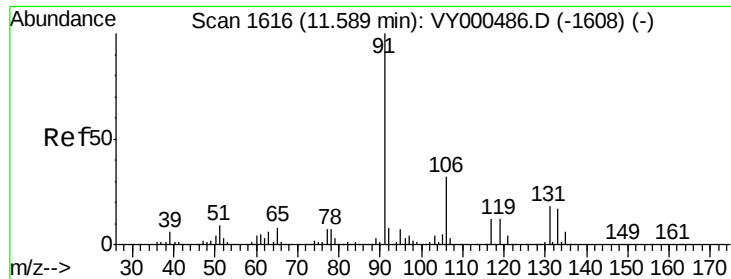
Tot Ion: 95 Resp: 234211
Ion Ratio Lower Upper
95 100
174 76.1 0.0 161.6
176 73.6 0.0 157.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VY000758.D
Acq: 20 Nov 2019 17:38

Tgt Ion: 117 Resp: 505111
Ion Ratio Lower Upper
117 100
82 54.8 40.8 61.2
119 31.5 26.2 39.2

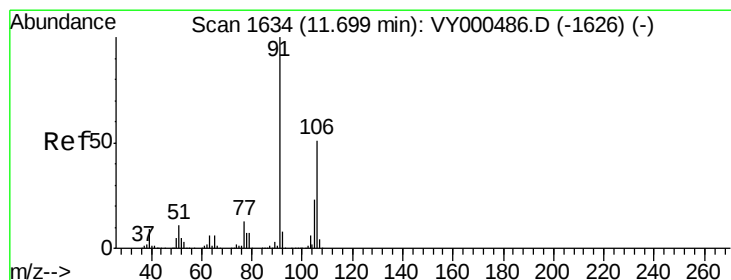
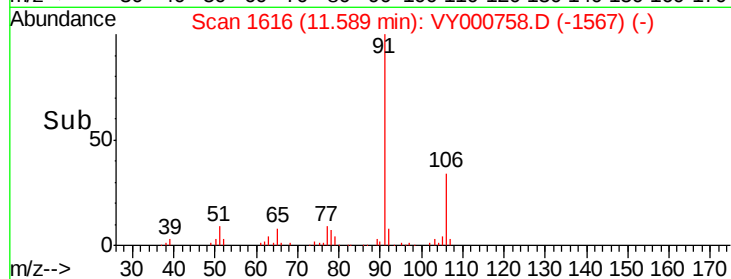
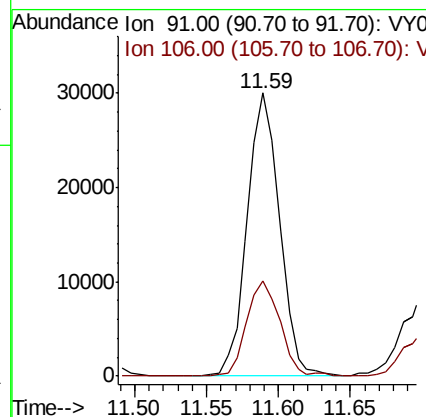
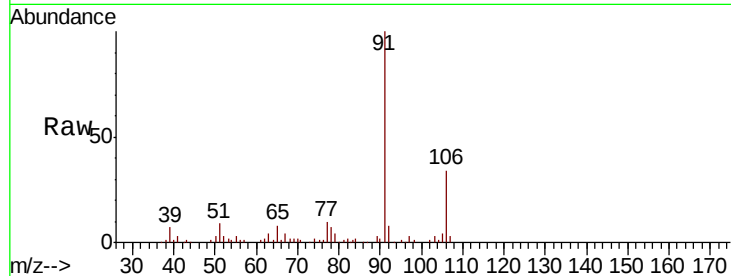




#67
Ethyl Benzene
Concen: 2.481 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. 0.00 min
Lab File: VY000758.D
Acq: 20 Nov 2019 17:38

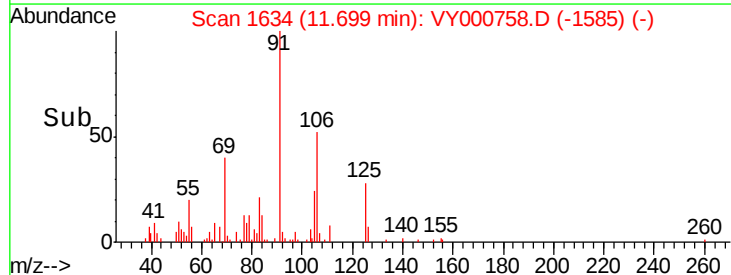
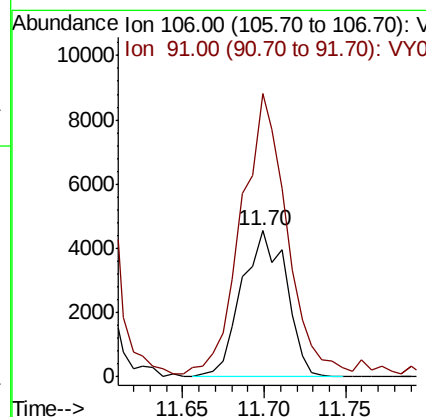
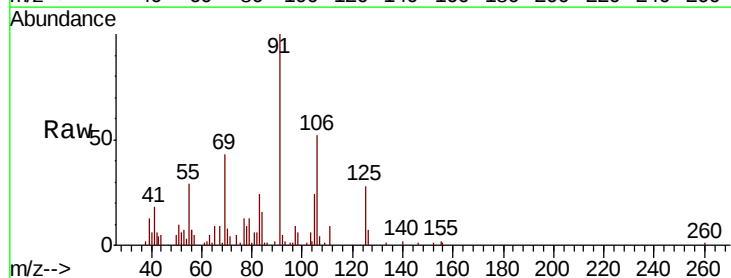
Instrument :
MSVOA_Y
ClientSampleId :

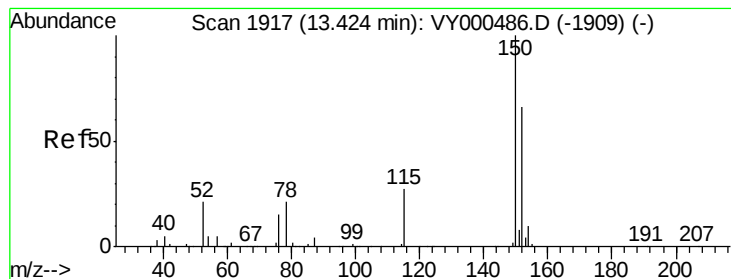
Tot Ion: 91 Resp: 46759
Ion Ratio Lower Upper
91 100
106 33.8 25.4 38.0



#68
m/p-Xylenes
Concen: 1.193 ug/l
RT: 11.70 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VY000758.D
Acq: 20 Nov 2019 17:38

Tgt Ion: 106 Resp: 8705
Ion Ratio Lower Upper
106 100
91 194.7 155.9 233.9



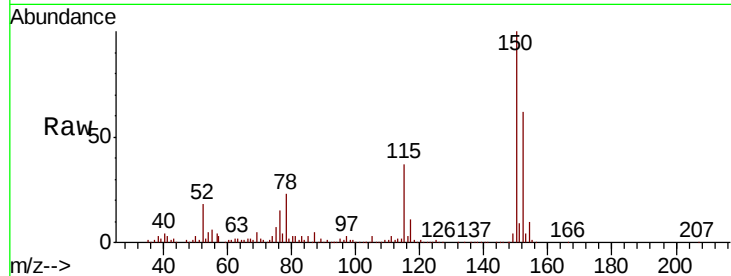


#72

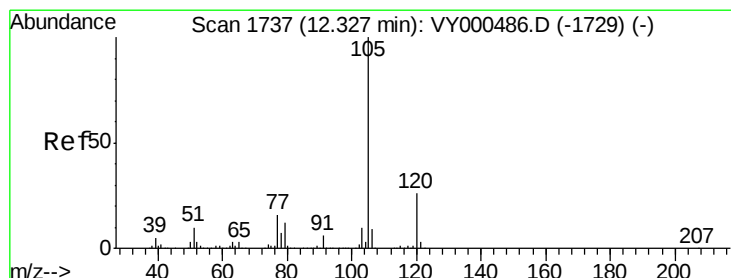
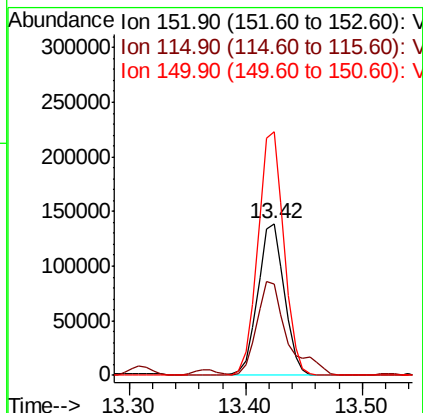
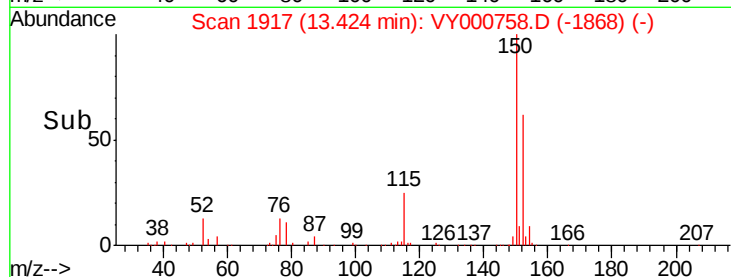
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VY000758.D
Acq: 20 Nov 2019 17:38

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	71.2	29.1	87.4
150	156.6	0.0	348.8



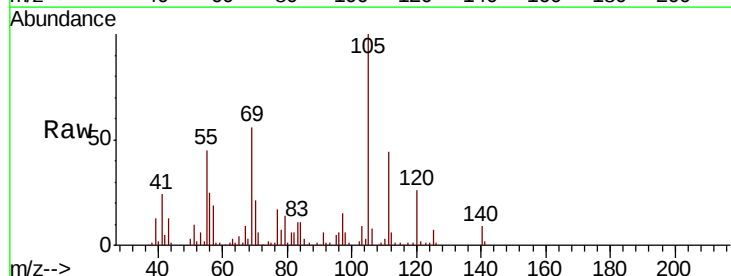
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



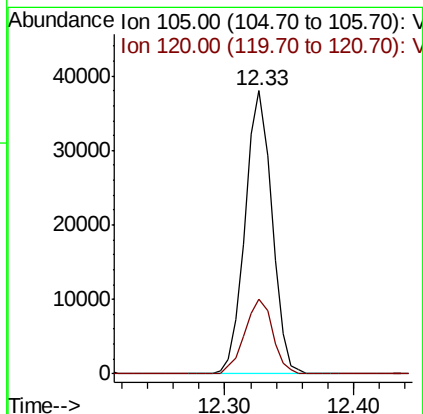
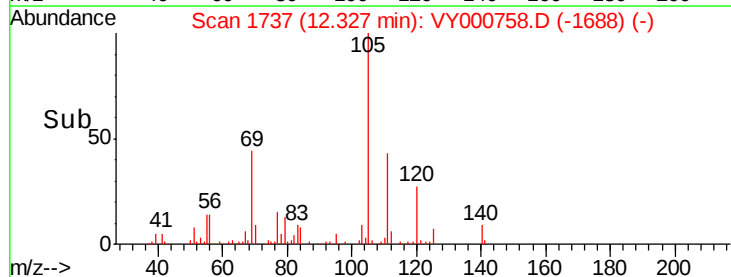
#73

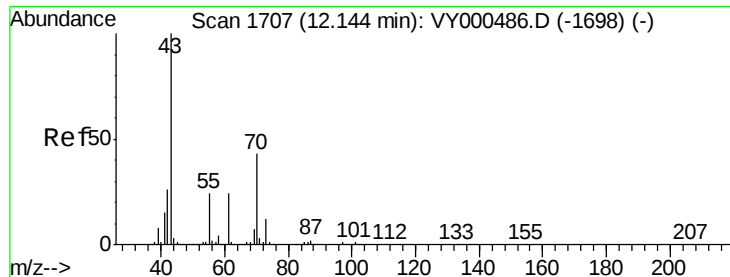
Isopropylbenzene
Concen: 3.353 ug/l
RT: 12.33 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VY000758.D
Acq: 20 Nov 2019 17:38

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.8	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-amvl acetate

Concen: 22.859 ug/l

RT: 12.12 min Scan# 1703

Delta R.T. -0.02 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

Instrument :

MSVOA_Y

ClientSampleId :

Tot Ion: 43 Resp: 106507

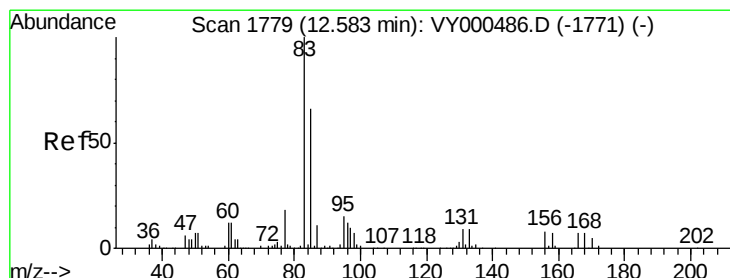
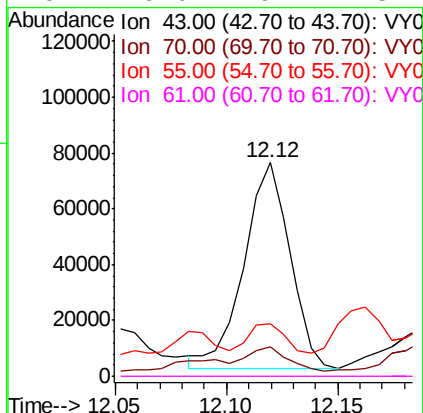
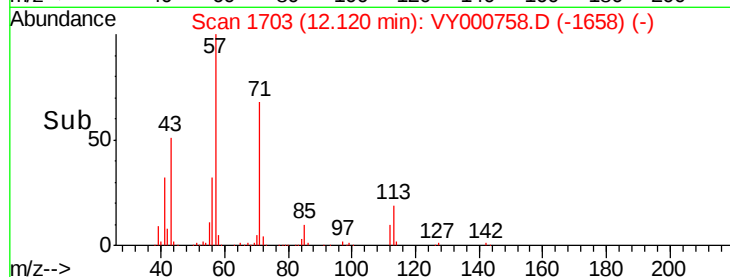
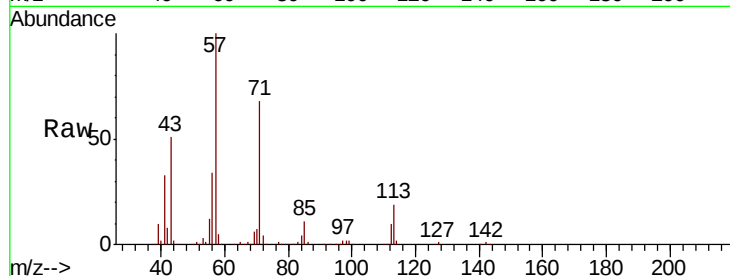
Ion Ratio Lower Upper

43 100

70 17.0 33.1 49.7#

55 10.7 18.0 27.0#

61 0.0 19.1 28.7#



#75

1,1,2,2-Tetrachloroethane

Concen: 3.532 ug/l

RT: 12.54 min Scan# 1772

Delta R.T. -0.04 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

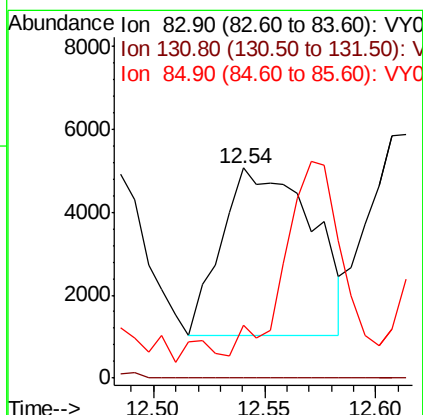
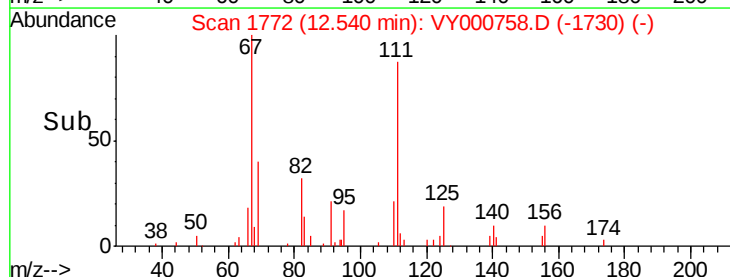
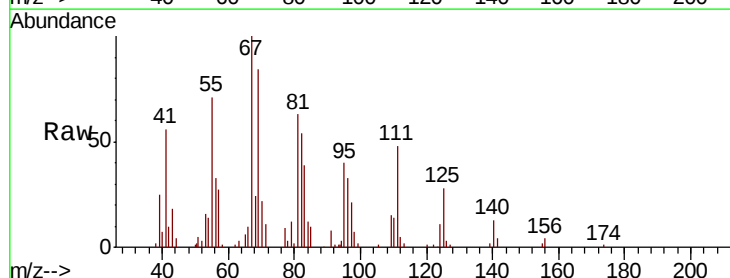
Tgt Ion: 83 Resp: 11377

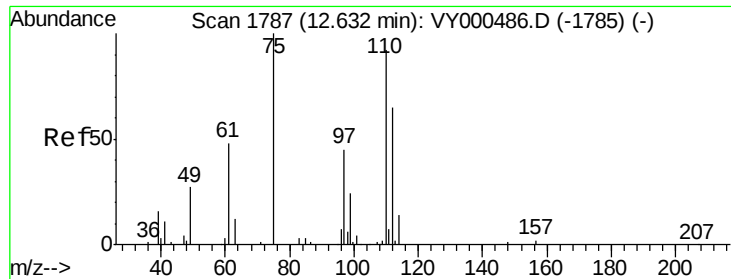
Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 0.0 32.3 96.9#





#76

1,2,3-Trichloropropane

Concen: 1.597 ug/l

RT: 12.73 min Scan# 1803

Delta R.T. 0.10 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

Instrument :

MSVOA_Y

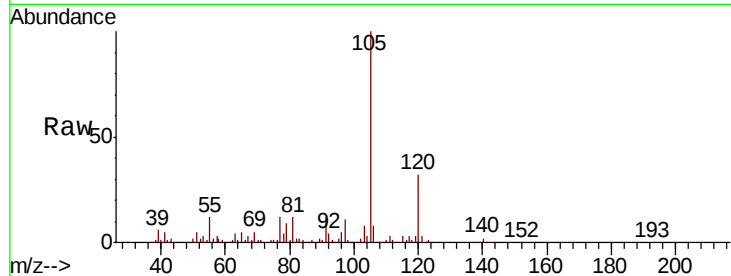
ClientSampleId :

Tot Ion: 75 Resp: 4002

Ion Ratio Lower Upper

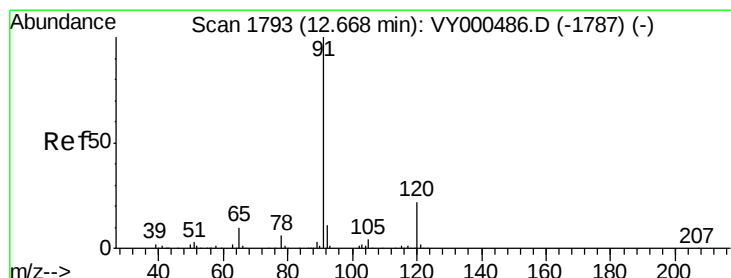
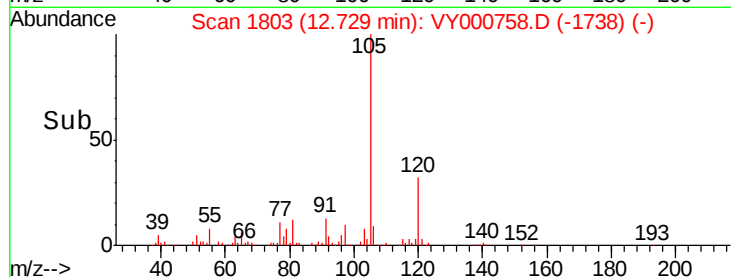
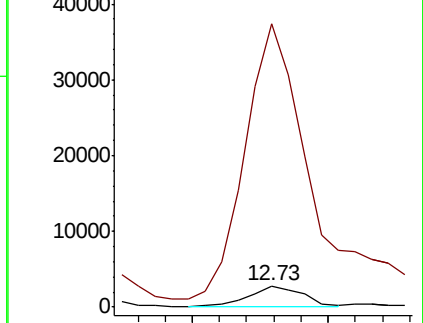
75 100

77 1550.4 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: 11.712 ug/l

RT: 12.67 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VY000758.D

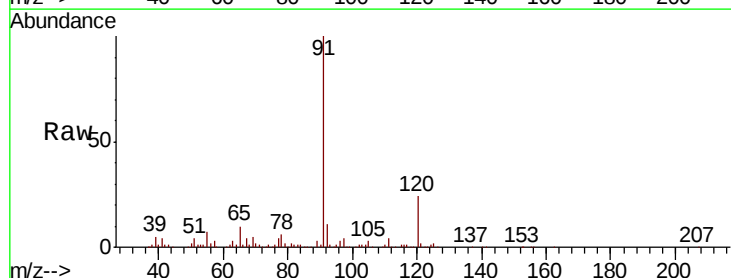
Acq: 20 Nov 2019 17:38

Tgt Ion: 91 Resp: 229903

Ion Ratio Lower Upper

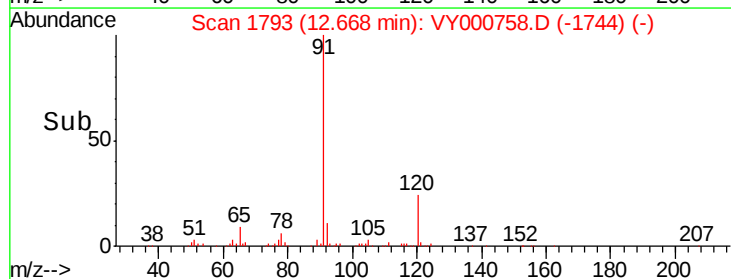
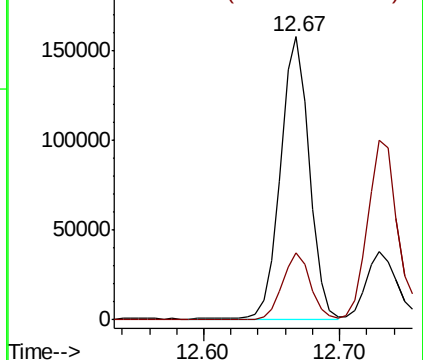
91 100

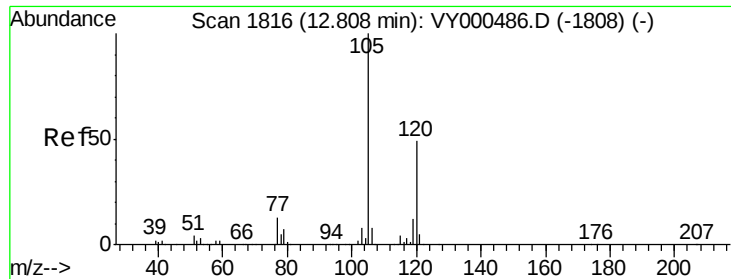
120 23.4 11.4 34.1



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 35.385 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. 0.00 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

Instrument :

MSVOA_Y

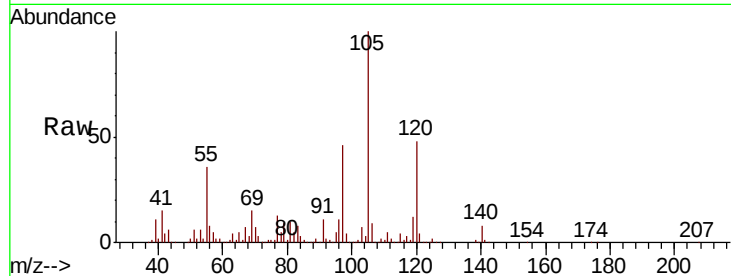
ClientSampleId :

Tot Ion:105 Resp: 479440

Ion Ratio Lower Upper

105 100

120 48.0 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.81

300000

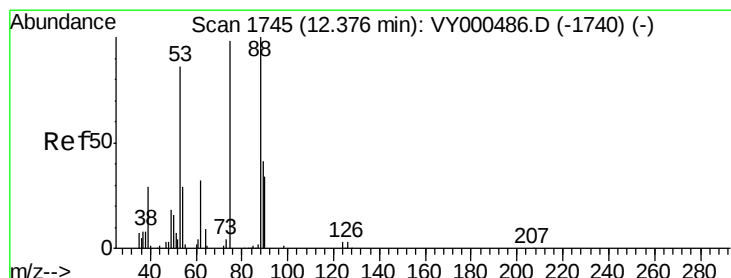
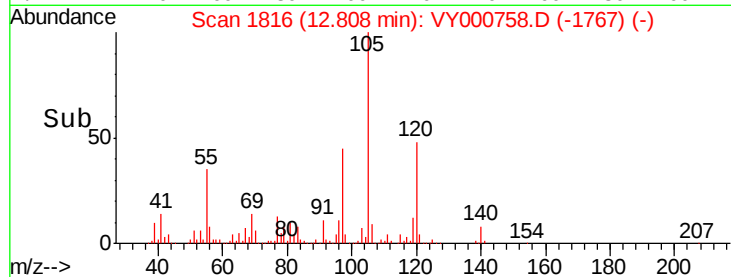
200000

100000

0

Time-->

12.75 12.80 12.85



#81

trans-1,4-Dichloro-2-butene

Concen: 98.972 ug/l

RT: 12.47 min Scan# 1761

Delta R.T. 0.10 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

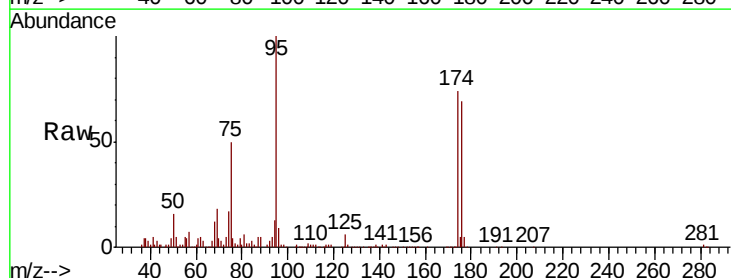
Tgt Ion: 75 Resp: 110637

Ion Ratio Lower Upper

75 100

53 2.6 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

12.47

80000

60000

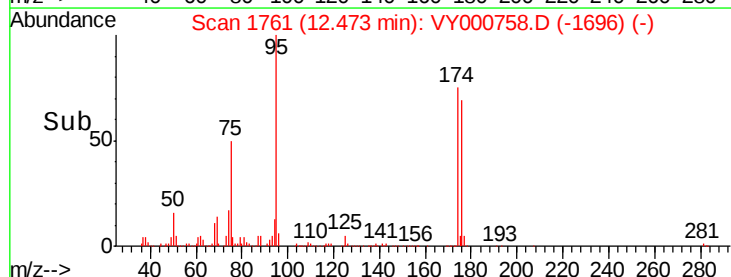
40000

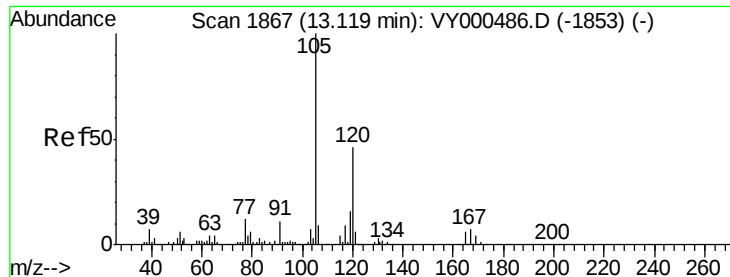
20000

0

Time-->

12.40 12.45 12.50 12.55





#84

1,2,4-Trimethylbenzene

Concen: 108.967 ug/l

RT: 13.11 min Scan# 1866

Delta R.T. -0.01 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

Instrument :

MSVOA_Y

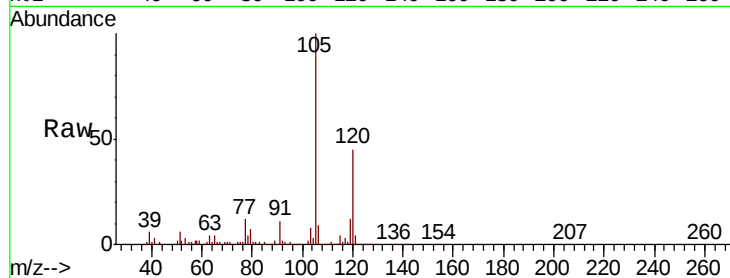
ClientSampled :

Tot Ion:105 Resp: 1470031

Ion Ratio Lower Upper

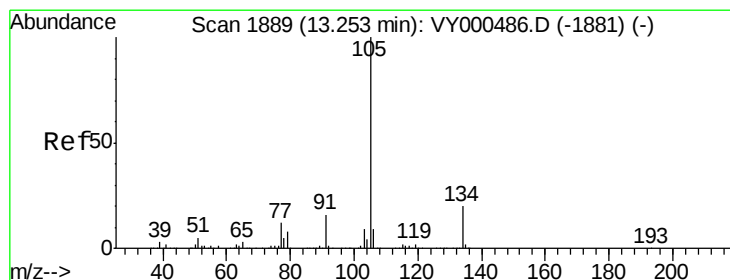
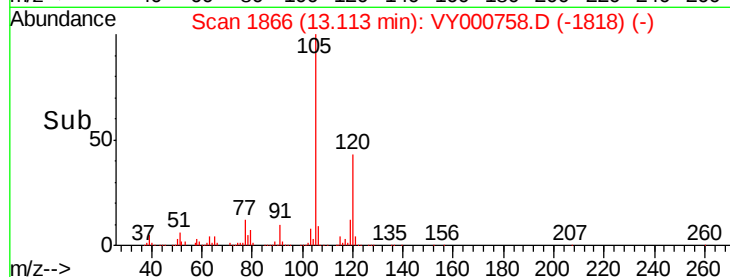
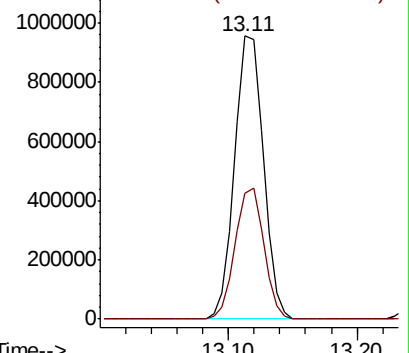
105 100

120 46.3 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 6.218 ug/l

RT: 13.25 min Scan# 1888

Delta R.T. -0.01 min

Lab File: VY000758.D

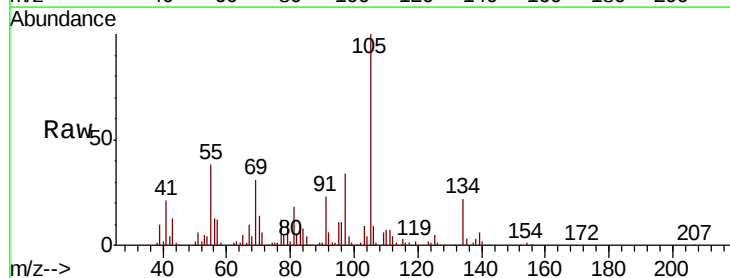
Acq: 20 Nov 2019 17:38

Tgt Ion:105 Resp: 102494

Ion Ratio Lower Upper

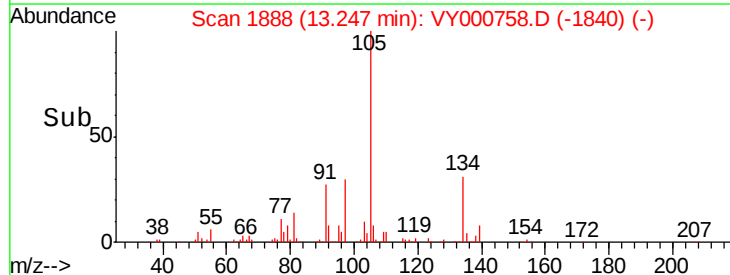
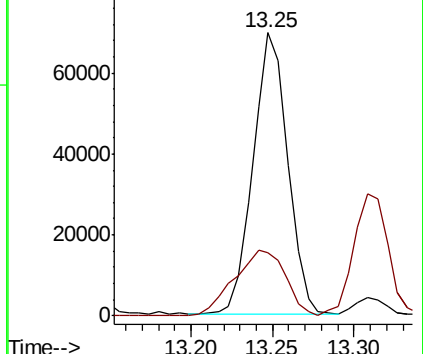
105 100

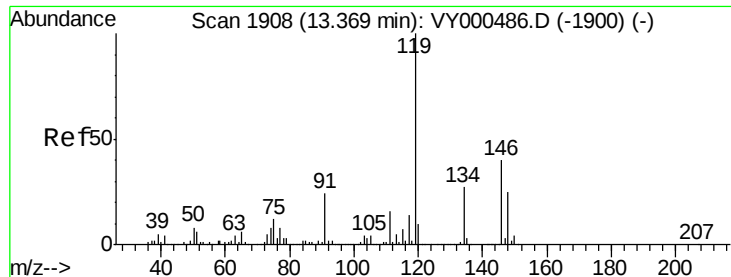
134 34.7 10.1 30.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

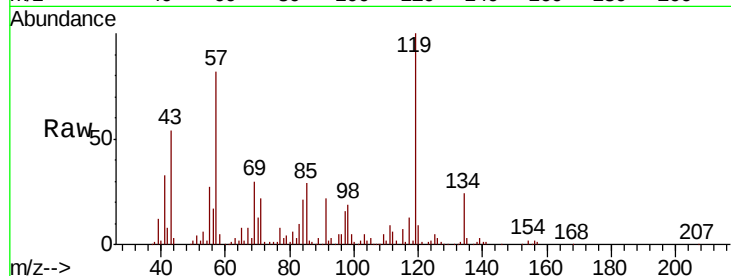




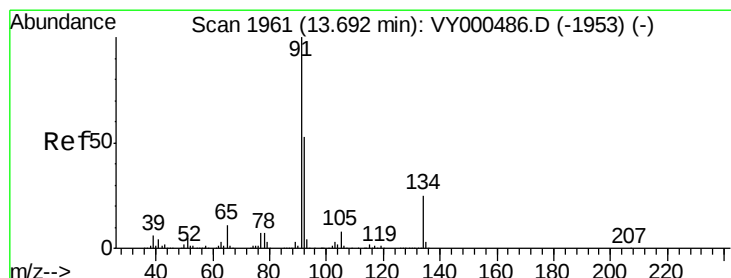
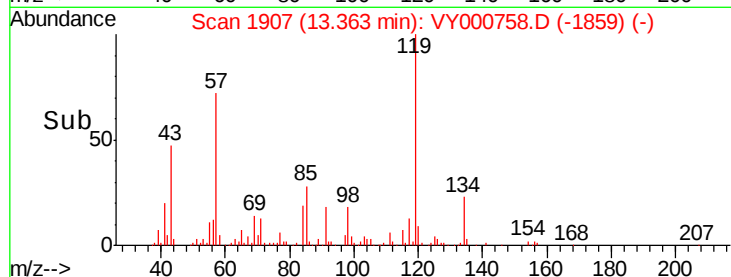
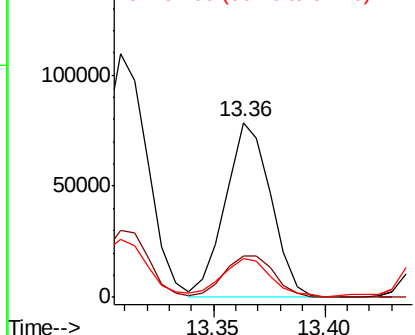
#86
p-Isopropyltoluene
Concen: 7.619 ug/l
RT: 13.36 min Scan# 1907
Delta R.T. -0.01 min
Lab File: VY000758.D
Acq: 20 Nov 2019 17:38

Instrument :
MSVOA_Y
ClientSampled :

Tot Ion: 119 Resp: 111923
Ion Ratio Lower Upper
119 100
134 26.1 13.6 40.8
91 22.5 12.0 36.1

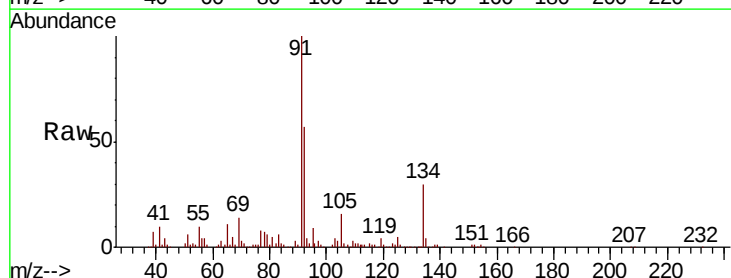


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

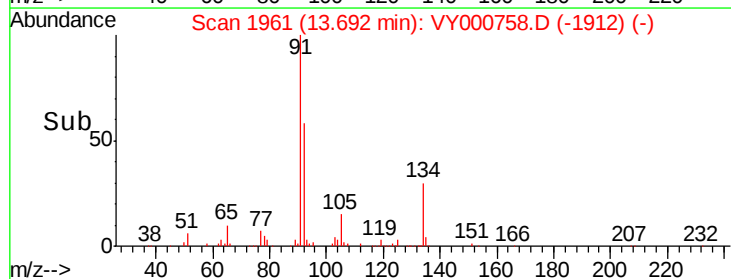
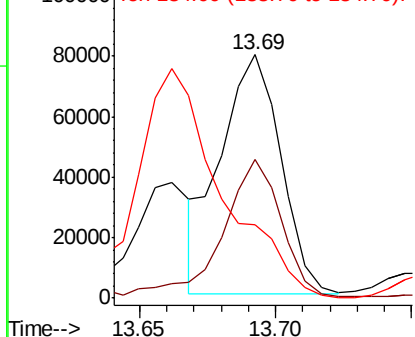


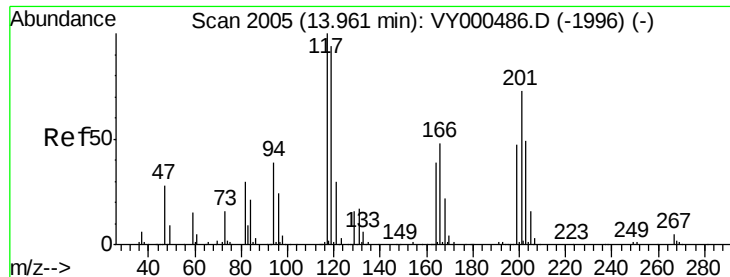
#89
n-Butylbenzene
Concen: 8.392 ug/l
RT: 13.69 min Scan# 1961
Delta R.T. 0.00 min
Lab File: VY000758.D
Acq: 20 Nov 2019 17:38

Tgt Ion: 91 Resp: 121583
Ion Ratio Lower Upper
91 100
92 56.2 26.8 80.3
134 0.0 12.9 38.7#



Abundance Ion 91.00 (90.70 to 91.70): VY0
Ion 92.00 (91.70 to 92.70): VY0
Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 7.211 ug/l

RT: 13.97 min Scan# 2006

Delta R.T. 0.01 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

Instrument :

MSVOA_Y

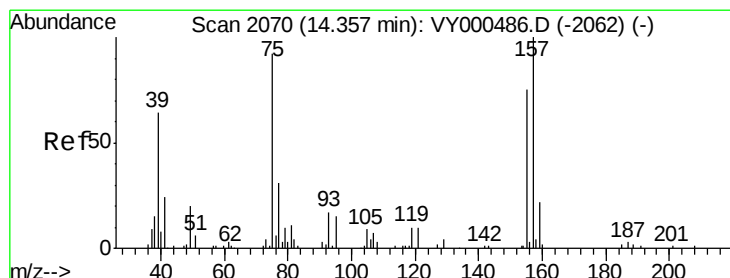
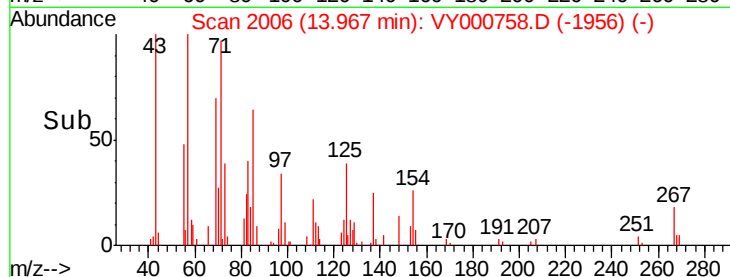
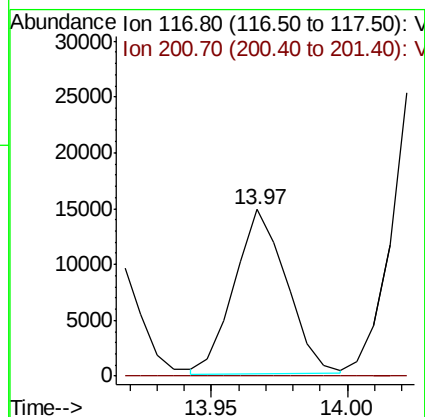
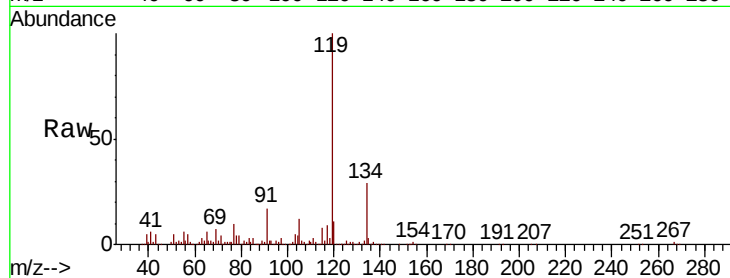
ClientSampleId :

Tot Ion:117 Resp: 19583

Ion Ratio Lower Upper

117 100

201 0.0 35.8 107.3#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.868 ug/l

RT: 14.33 min Scan# 2066

Delta R.T. -0.02 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

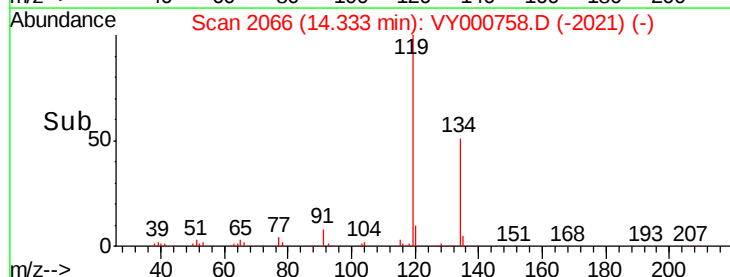
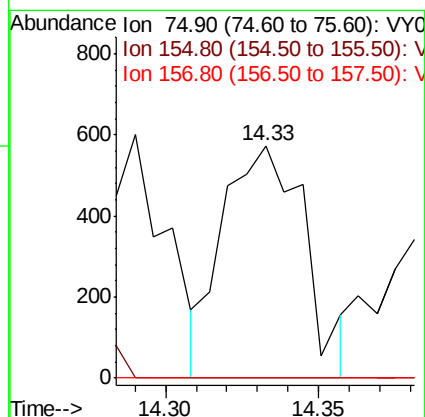
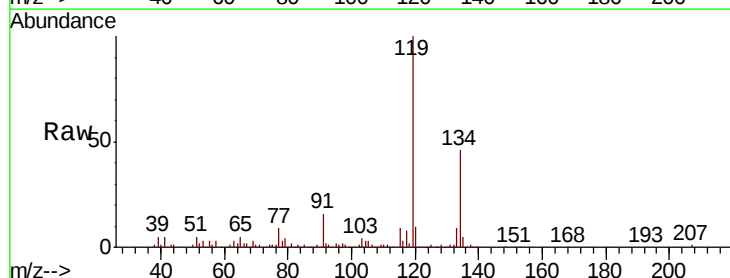
Tgt Ion: 75 Resp: 1065

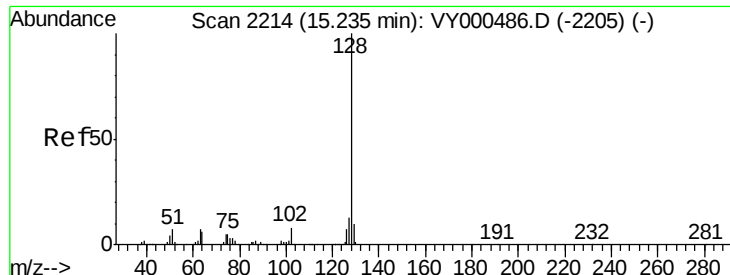
Ion Ratio Lower Upper

75 100

155 0.0 42.4 127.1#

157 0.0 55.1 165.3#





#95

Naphthalene

Concen: 10.036 ug/l

RT: 15.23 min Scan# 2213

Delta R.T. -0.01 min

Lab File: VY000758.D

Acq: 20 Nov 2019 17:38

Instrument :

MSVOA_Y

ClientSampleId :

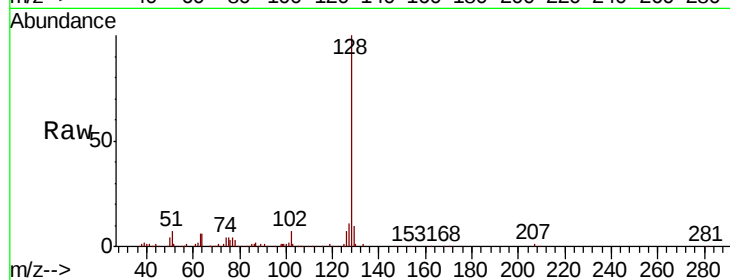
Tot Ion:128 Resp: 99457

Ion Ratio Lower Upper

128 100

127 12.6 9.8 14.6

129 11.4 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

