

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY042120\
 Data File : VY002448.D
 Acq On : 21 Apr 2020 20:54
 Operator : SY/MD
 Sample : L2330-02
 Misc : 5.36G/5ML/MSVOA Y/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WB-9-2

Quant Time: Apr 22 04:59:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y042020S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 20 15:14:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.82	168	200718	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	314271	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	280836	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	129958	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	81519	55.84	ug/l	0.00
Spiked Amount			Recovery	=	111.68%	
35) Dibromofluoromethane	7.74	113	87691	53.05	ug/l	0.00
Spiked Amount			Recovery	=	106.10%	
50) Toluene-d8	10.19	98	363989	54.44	ug/l	0.00
Spiked Amount			Recovery	=	108.88%	
62) 4-Bromofluorobenzene	12.49	95	110471	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	

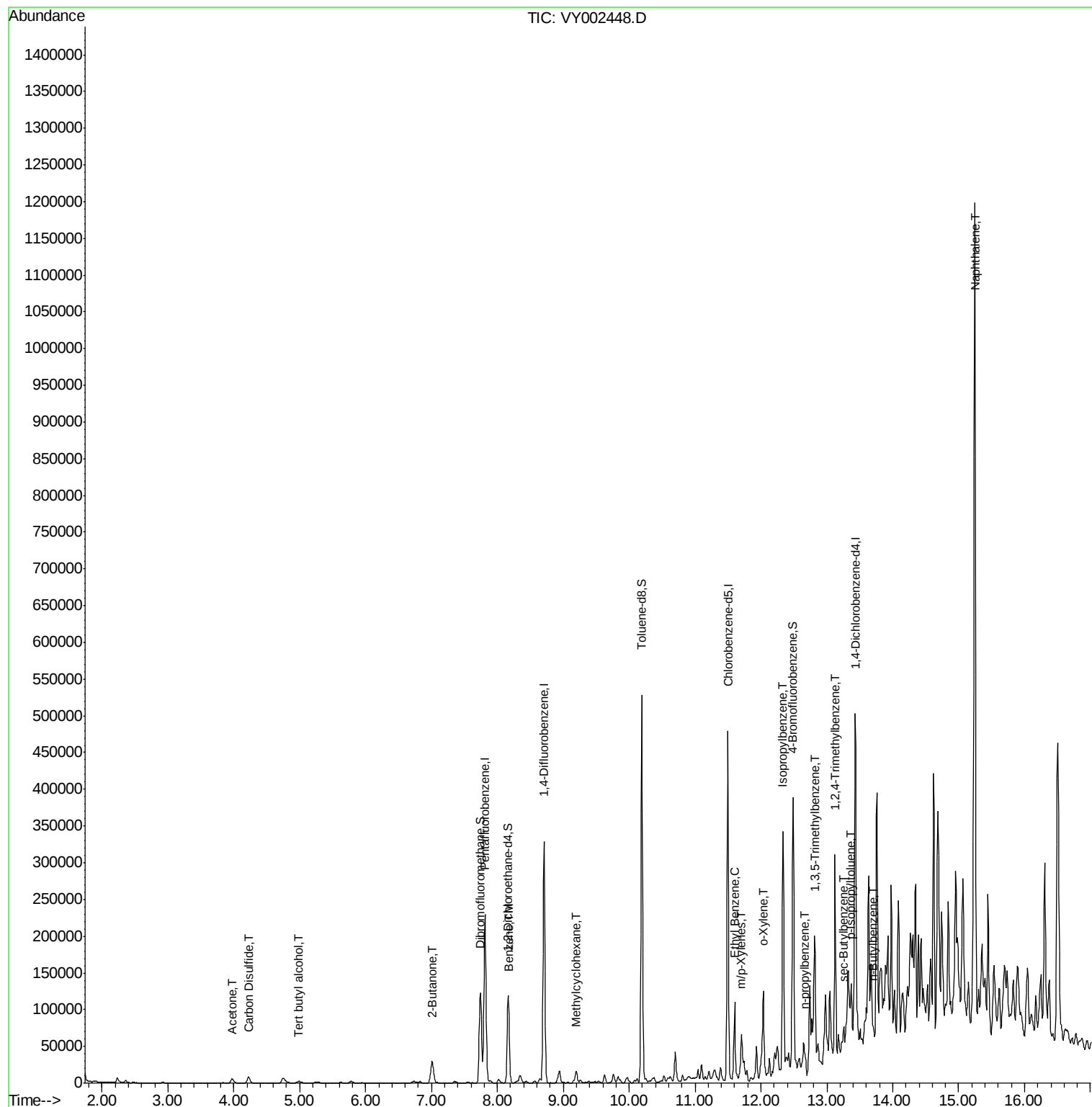
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.98	59	4948	28.360	ug/l #	86
16) Acetone	3.97	43	9710	24.890	ug/l	92
17) Carbon Disulfide	4.22	76	15976	2.751	ug/l	97
25) 2-Butanone	7.02	43	12733	22.898	ug/l	96
39) Methylcyclohexane	9.20	83	6493	1.860	ug/l	96
40) Benzene	8.18	78	12854	1.652	ug/l	93
67) Ethyl Benzene	11.60	91	73389	7.876	ug/l	95
68) m/p-Xylenes	11.70	106	20208	5.612	ug/l	98
69) o-Xylene	12.03	106	32716	9.644	ug/l	97
73) Isopropylbenzene	12.33	105	188854	22.143	ug/l	99
78) n-propylbenzene	12.67	91	15862	1.574	ug/l	99
80) 1,3,5-Trimethylbenzene	12.82	105	33538	4.769	ug/l	99
84) 1,2,4-Trimethylbenzene	13.13	105	151503	21.505	ug/l	99
85) sec-Butylbenzene	13.26	105	15261	1.757	ug/l #	77
86) p-Isopropyltoluene	13.38	119	29291	3.718	ug/l	98
89) n-Butylbenzene	13.70	91	9315	1.268	ug/l #	64
95) Naphthalene	15.25	128	944444	185.901	ug/l	99

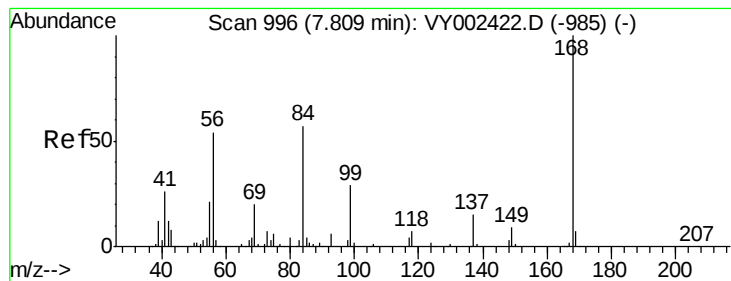
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY042120\
Data File : VY002448.D
Acq On : 21 Apr 2020 20:54
Operator : SY/MD
Sample : L2330-02
Misc : 5.36G/5ML/MSVOA Y/SOIL
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
WB-9-2

Quant Time: Apr 22 04:59:32 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_Y\METHODS\82Y042020S.M
Quant Title : SW846 8260
QLast Update : Mon Apr 20 15:14:11 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY002448.D

Acq: 21 Apr 2020 20:54

Instrument :

MSVOA_Y

ClientSampleId :

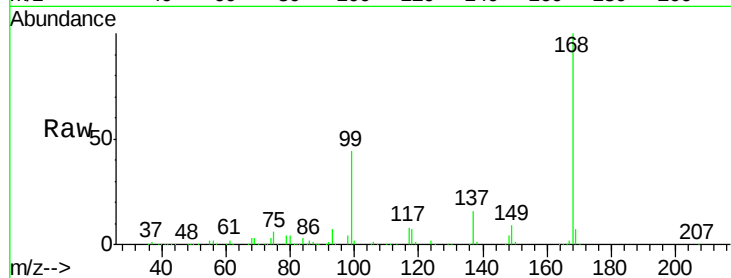
WB-9-2

Tot Ion:168 Resp: 200718

Ion Ratio Lower Upper

168 100

99 43.6 37.0 55.4



Abundance Ion 167.90 (167.60 to 168.60): VY002422.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002422.D (-985) (-)

7.82

80000

60000

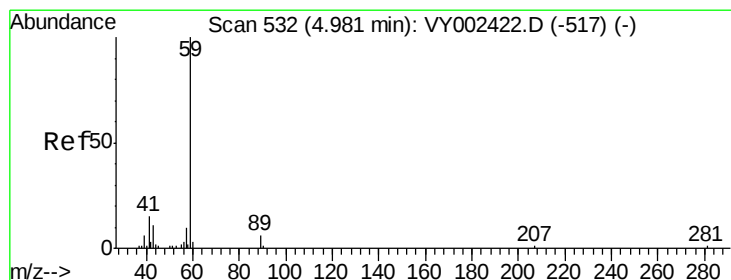
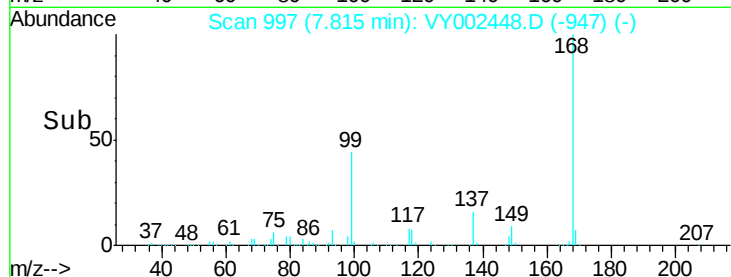
40000

20000

0

7.70 7.80 7.90

Time-->



#11

Tert butyl alcohol

Concen: 28.360 ug/l

RT: 4.98 min Scan# 532

Delta R.T. 0.00 min

Lab File: VY002448.D

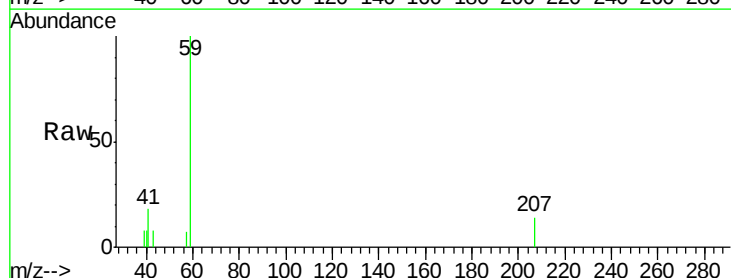
Acq: 21 Apr 2020 20:54

Tgt Ion: 59 Resp: 4948

Ion Ratio Lower Upper

59 100

57 4.2 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY002422.D (-517) (-)

Ion 57.00 (56.70 to 57.70): VY002422.D (-517) (-)

4.98

1500

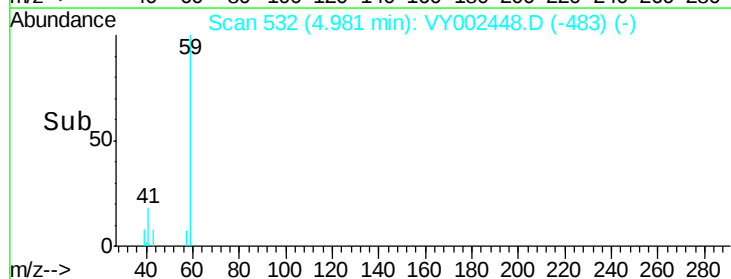
1000

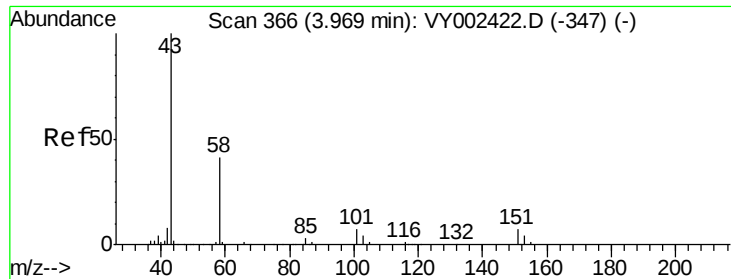
500

0

4.90 5.00 5.10

Time-->





#16

Acetone

Concen: 24.890 ug/l

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VY002448.D

Acq: 21 Apr 2020 20:54

Instrument :

MSVOA_Y

ClientSampled :

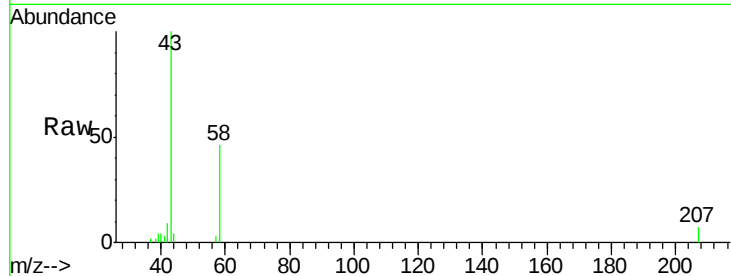
WB-9-2

Tot Ion: 43 Resp: 9710

Ion Ratio Lower Upper

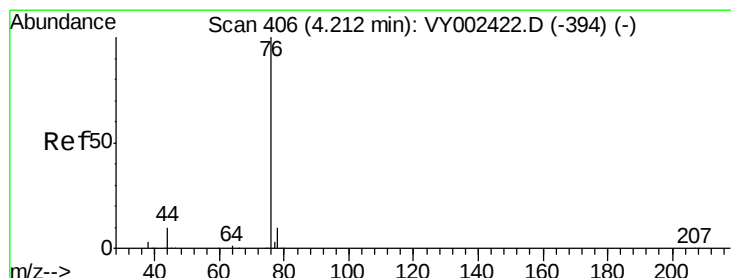
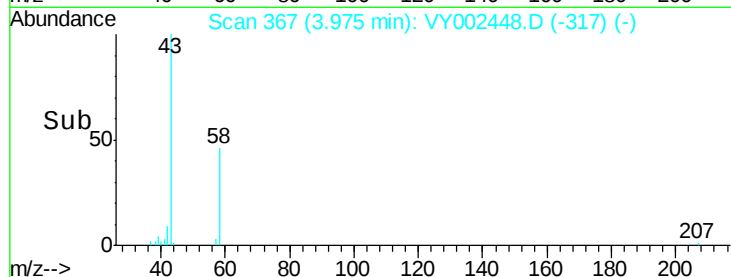
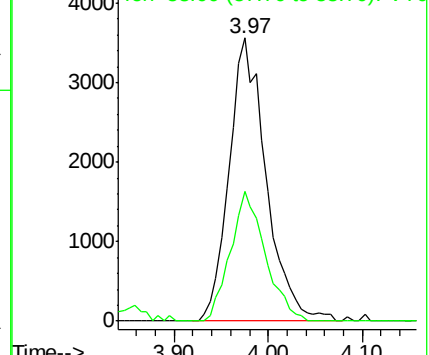
43 100

58 45.9 32.6 48.8



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#17

Carbon Disulfide

Concen: 2.751 ug/l

RT: 4.22 min Scan# 408

Delta R.T. 0.01 min

Lab File: VY002448.D

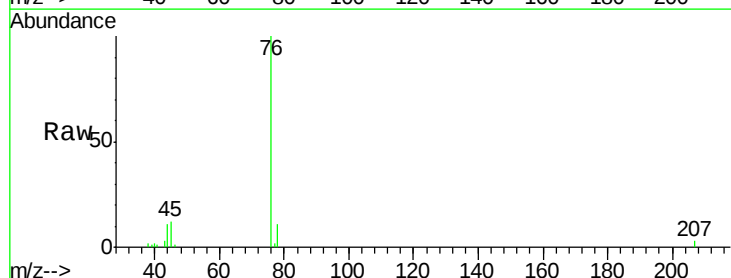
Acq: 21 Apr 2020 20:54

Tgt Ion: 76 Resp: 15976

Ion Ratio Lower Upper

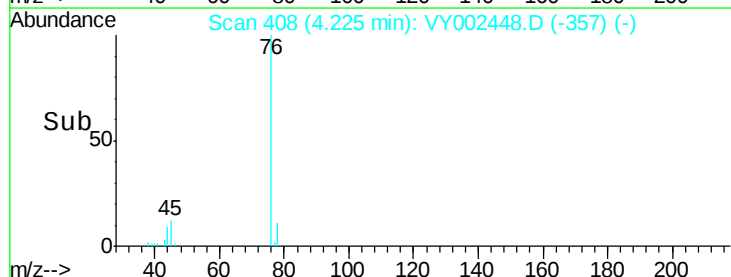
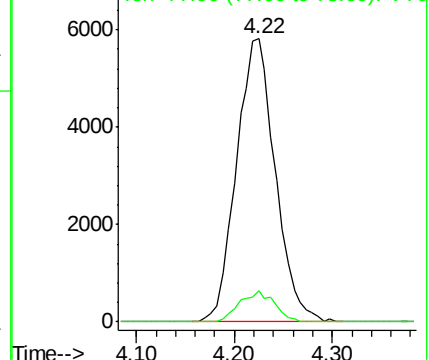
76 100

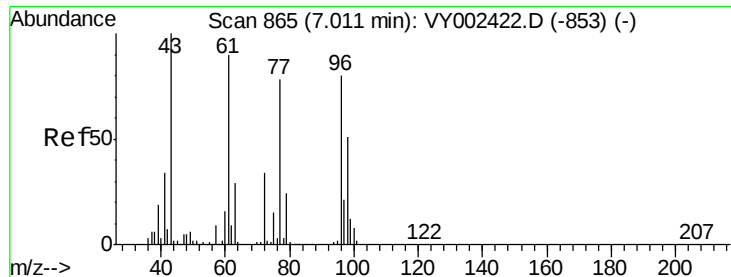
78 10.9 7.8 11.6



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0





#25

2-Butanone

Concen: 22.898 ug/l

RT: 7.02 min Scan# 867

Delta R.T. 0.01 min

Lab File: VY002448.D

Acq: 21 Apr 2020 20:54

Instrument :

MSVOA_Y

ClientSampled :

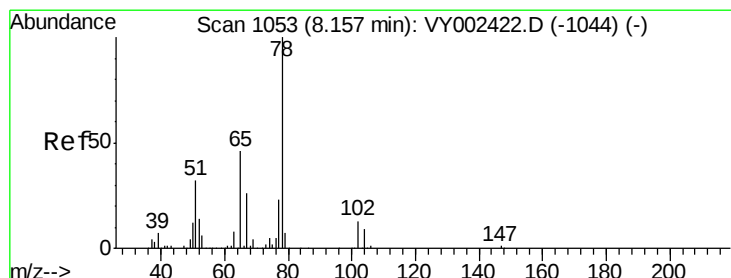
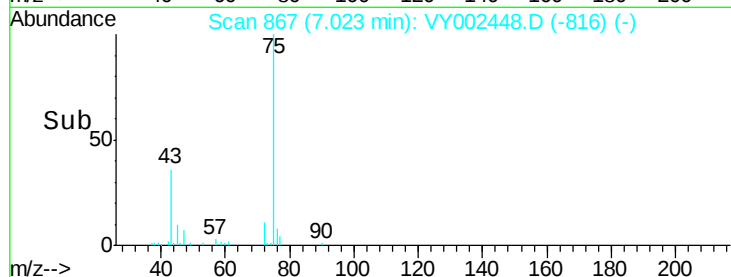
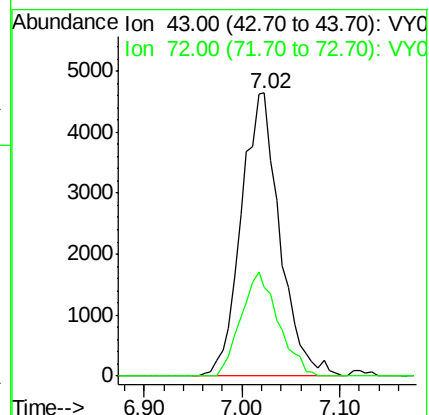
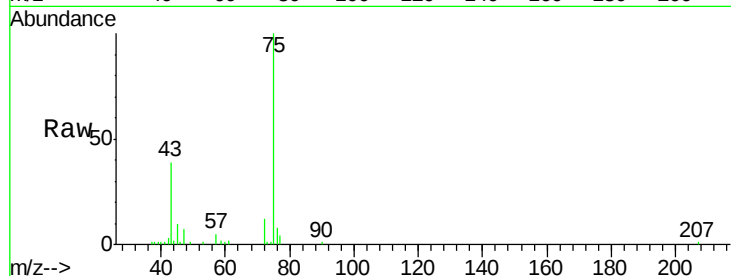
WB-9-2

Tot Ion: 43 Resp: 12733

Ion Ratio Lower Upper

43 100

72 31.3 27.0 40.6



#33

1,2-Dichloroethane-d4

Concen: 55.841 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VY002448.D

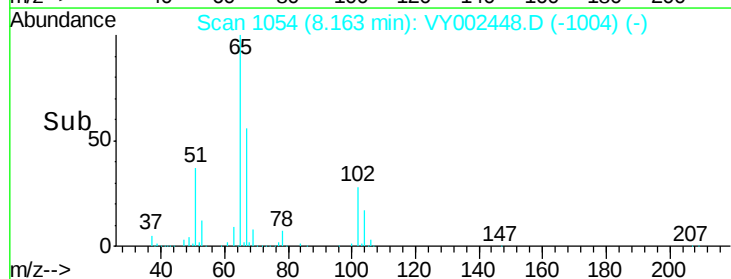
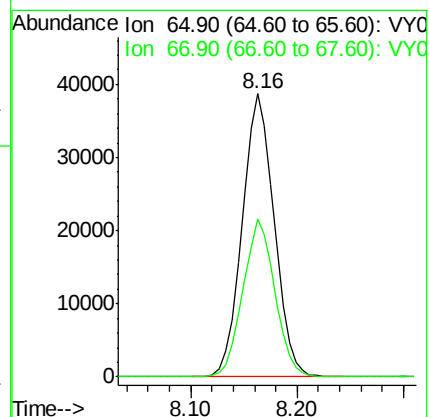
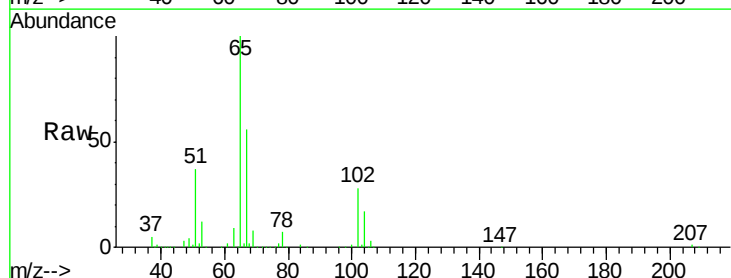
Acq: 21 Apr 2020 20:54

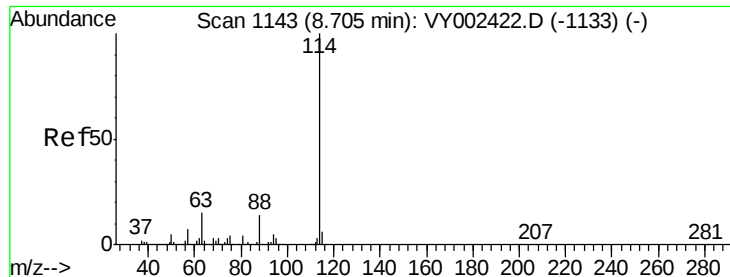
Tgt Ion: 65 Resp: 81519

Ion Ratio Lower Upper

65 100

67 55.8 0.0 111.0

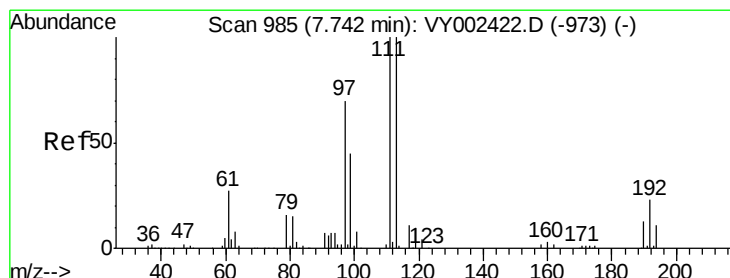
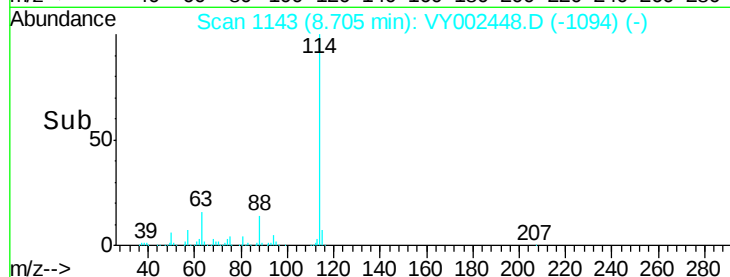
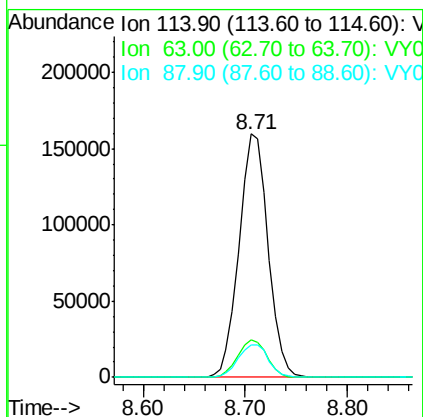
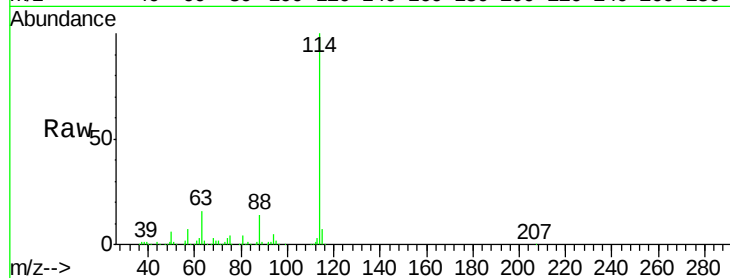




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.71 min Scan# 1143
Delta R.T. -0.00 min
Lab File: VY002448.D
Acq: 21 Apr 2020 20:54

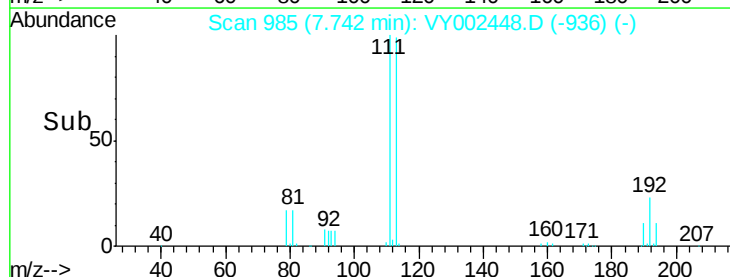
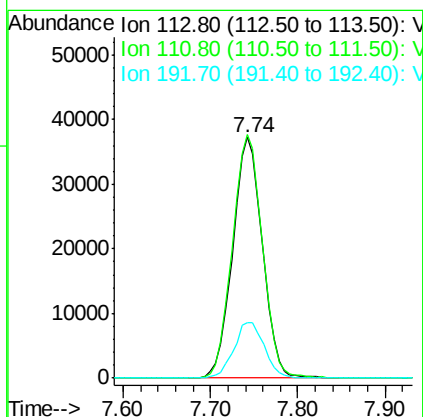
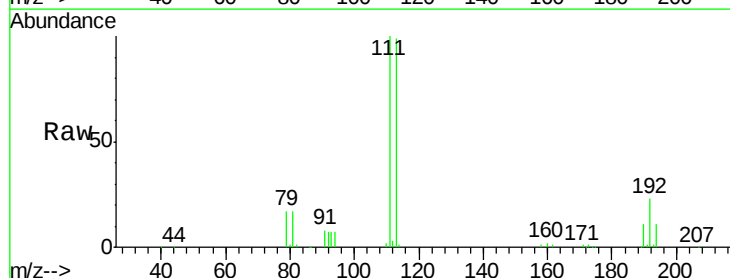
Instrument :
MSVOA_Y
ClientSampleId :
WB-9-2

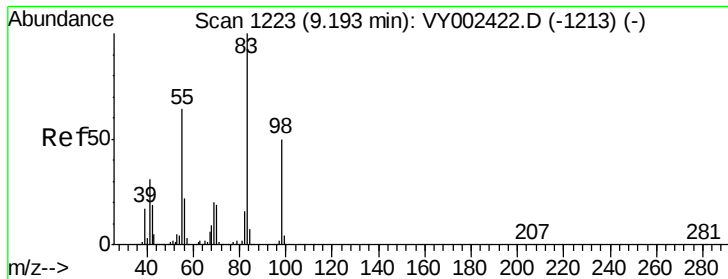
Tot Ion:114 Resp: 314271
Ion Ratio Lower Upper
114 100
63 15.6 0.0 31.0
88 13.5 0.0 28.2



#35
Dibromofluoromethane
Concen: 53.049 ug/l
RT: 7.74 min Scan# 985
Delta R.T. 0.00 min
Lab File: VY002448.D
Acq: 21 Apr 2020 20:54

Tgt Ion:113 Resp: 87691
Ion Ratio Lower Upper
113 100
111 102.5 81.7 122.5
192 23.8 17.8 26.6

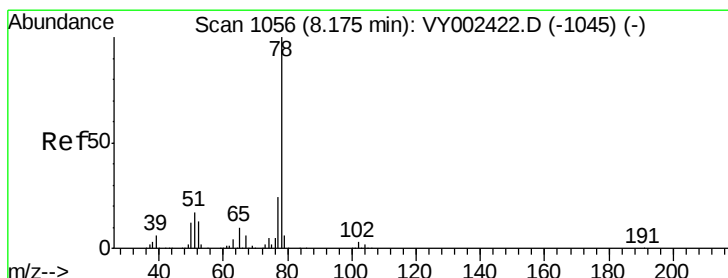
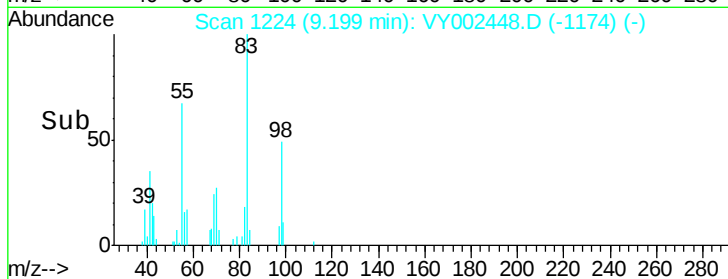
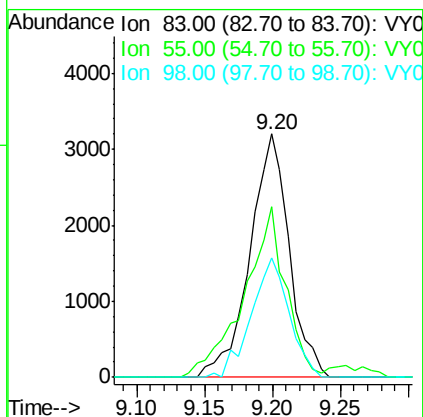
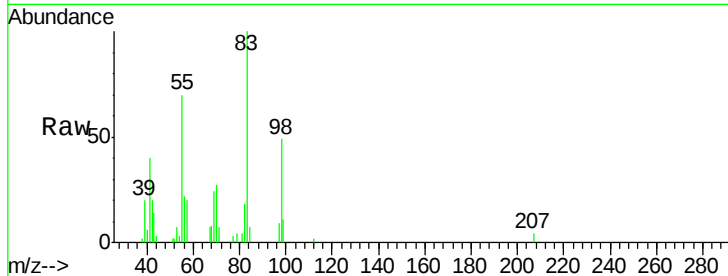




#39
Methvlcvclohexane
Concen: 1.860 ug/l
RT: 9.20 min Scan# 1224
Delta R.T. 0.01 min
Lab File: VY002448.D
Acq: 21 Apr 2020 20:54

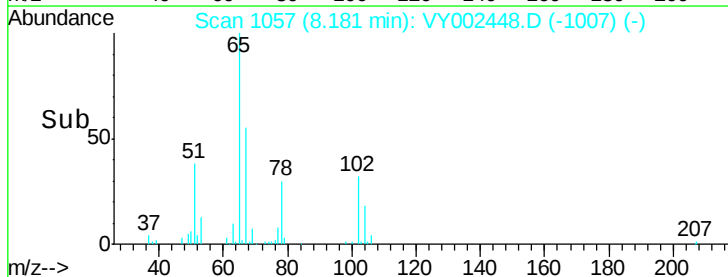
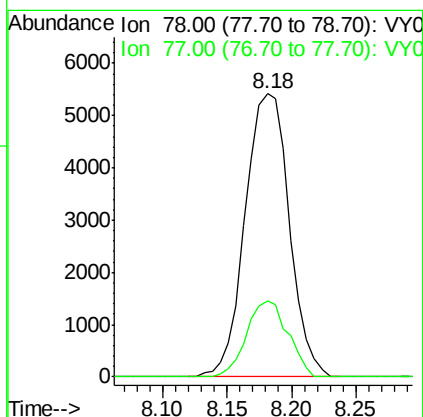
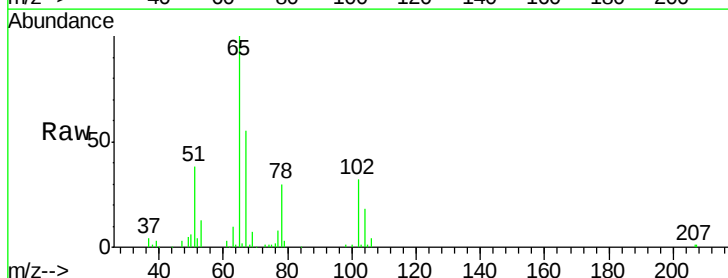
Instrument :
MSVOA_Y
ClientSampled :
WB-9-2

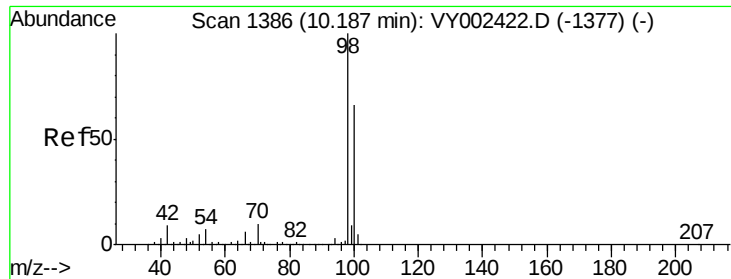
Tot Ion: 83 Resp: 6493
Ion Ratio Lower Upper
83 100
55 68.4 51.2 76.8
98 48.9 39.8 59.6



#40
Benzene
Concen: 1.652 ug/l
RT: 8.18 min Scan# 1057
Delta R.T. 0.01 min
Lab File: VY002448.D
Acq: 21 Apr 2020 20:54

Tgt Ion: 78 Resp: 12854
Ion Ratio Lower Upper
78 100
77 26.9 19.0 28.4





#50

Toluene-d8

Concen: 54.442 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY002448.D

Acq: 21 Apr 2020 20:54

Instrument :

MSVOA_Y

ClientSampleId :

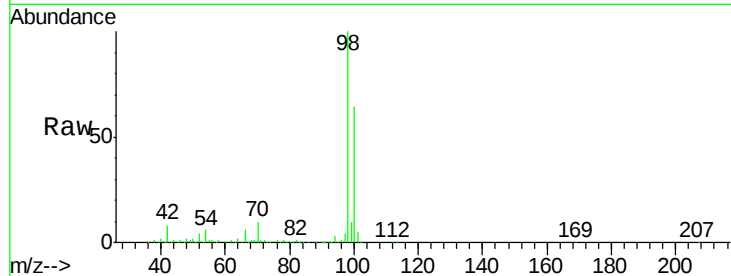
WB-9-2

Tot Ion: 98 Resp: 363989

Ion Ratio Lower Upper

98 100

100 64.7 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0

250000

200000

150000

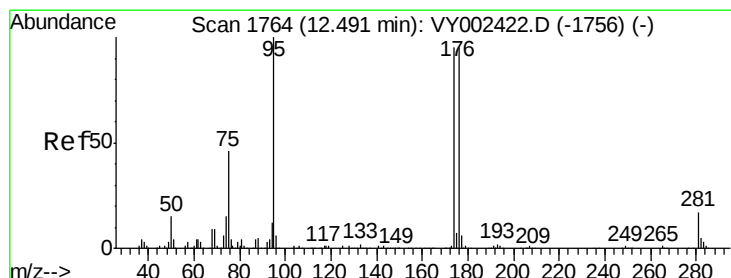
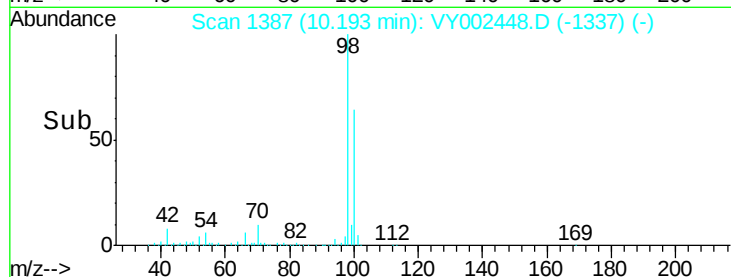
100000

50000

0

10.10 10.20 10.30

Time-->



#62

4-Bromofluorobenzene

Concen: 50.046 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VY002448.D

Acq: 21 Apr 2020 20:54

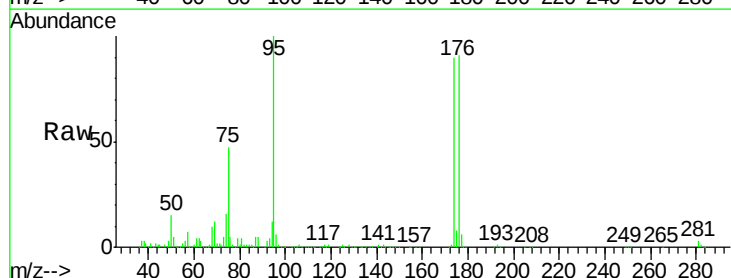
Tgt Ion: 95 Resp: 110471

Ion Ratio Lower Upper

95 100

174 97.0 0.0 185.8

176 95.5 0.0 181.2



Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): VY0

Ion 175.80 (175.50 to 176.50): VY0

100000

80000

60000

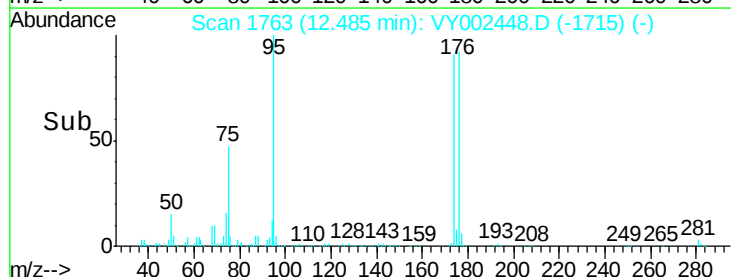
40000

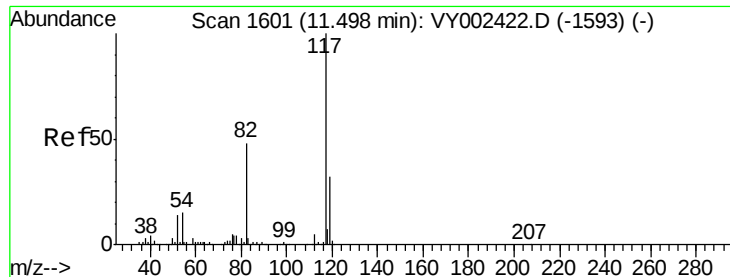
20000

0

12.45 12.50 12.55

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.50 min Scan# 1601

Delta R.T. -0.00 min

Lab File: VY002448.D

Acq: 21 Apr 2020 20:54

Instrument :

MSVOA_Y

ClientSampleId :

WB-9-2

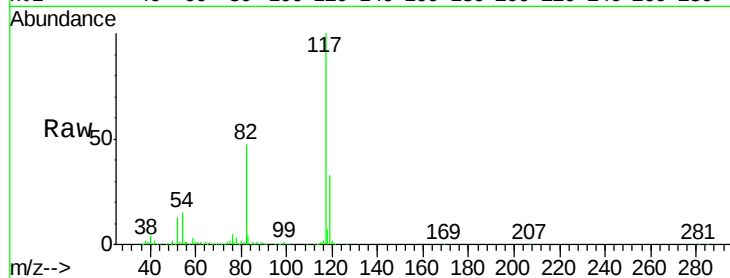
Tot Ion:117 Resp: 280836

Ion Ratio Lower Upper

117 100

82 47.1 38.4 57.6

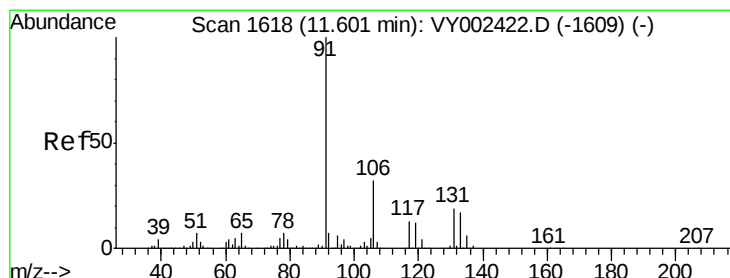
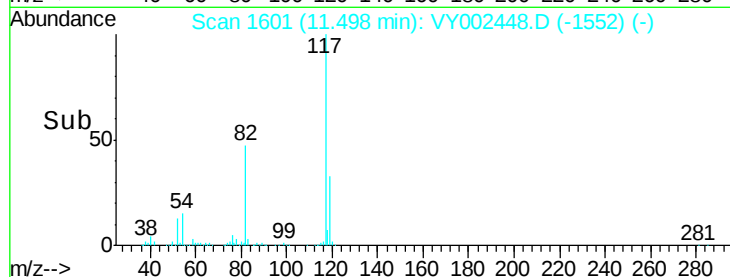
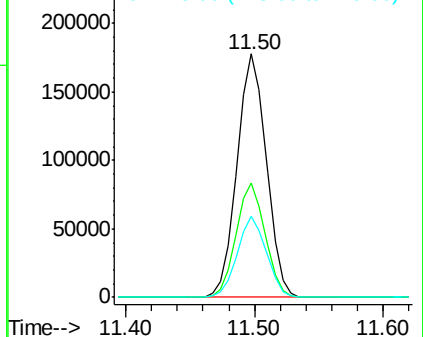
119 33.2 25.3 37.9



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: 7.876 ug/l

RT: 11.60 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VY002448.D

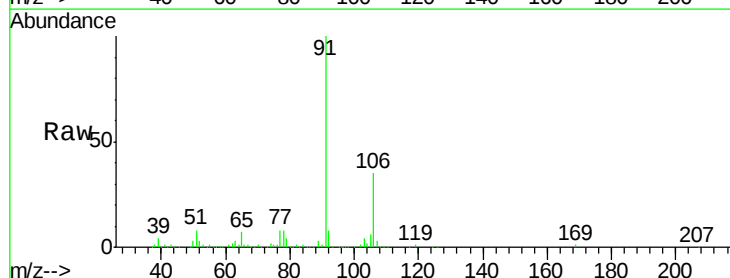
Acq: 21 Apr 2020 20:54

Tgt Ion: 91 Resp: 73389

Ion Ratio Lower Upper

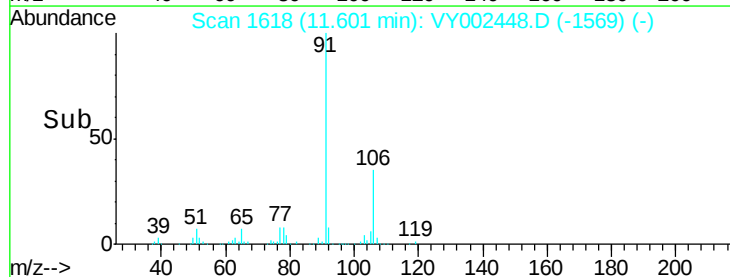
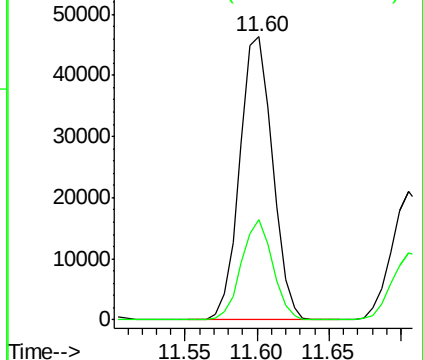
91 100

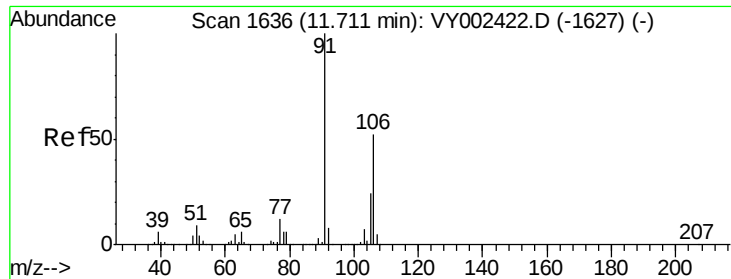
106 35.3 25.8 38.8



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 106.00 (105.70 to 106.70): V

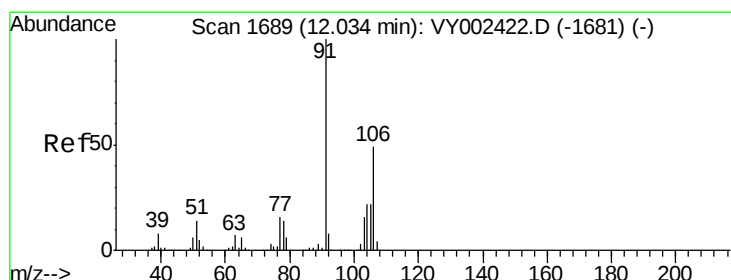
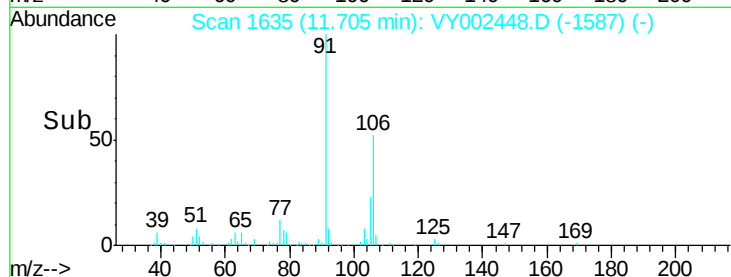
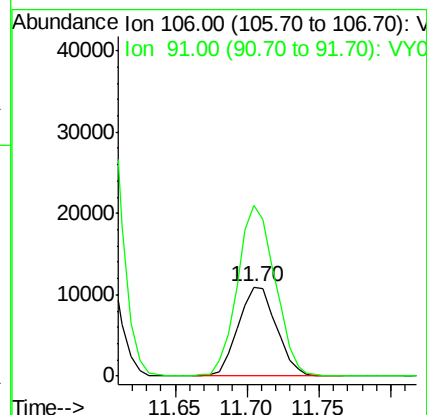
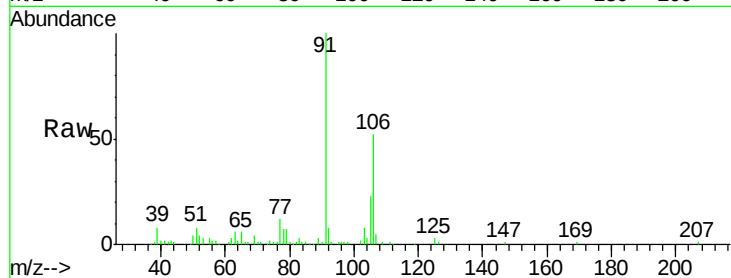




#68
m/p-Xylenes
Concen: 5.612 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. -0.01 min
Lab File: VY002448.D
Acq: 21 Apr 2020 20:54

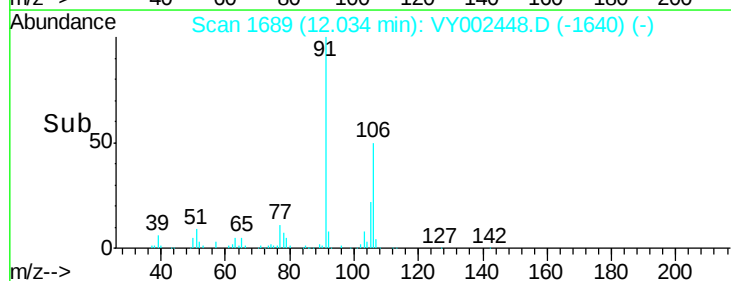
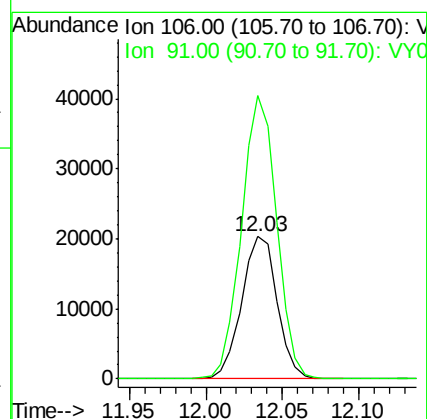
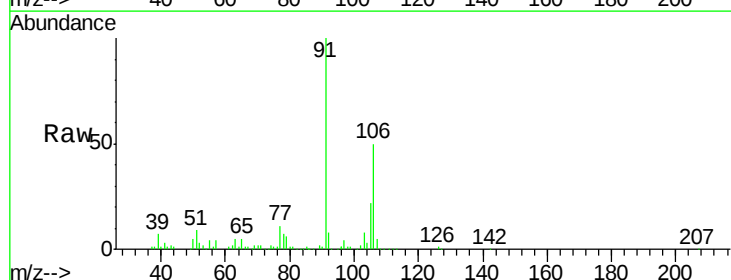
Instrument :
MSVOA_Y
ClientSampled :
WB-9-2

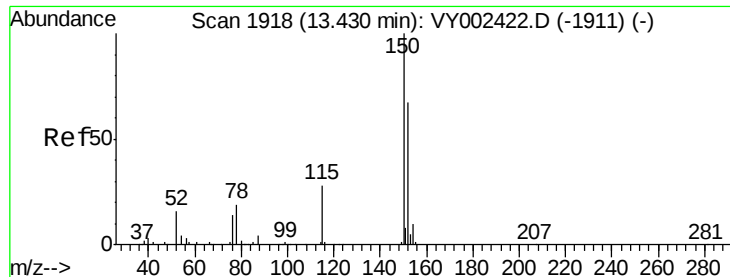
Tot Ion:106 Resp: 20208
Ion Ratio Lower Upper
106 100
91 189.3 153.6 230.4



#69
o-Xylene
Concen: 9.644 ug/l
RT: 12.03 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VY002448.D
Acq: 21 Apr 2020 20:54

Tgt Ion:106 Resp: 32716
Ion Ratio Lower Upper
106 100
91 196.8 100.4 301.2



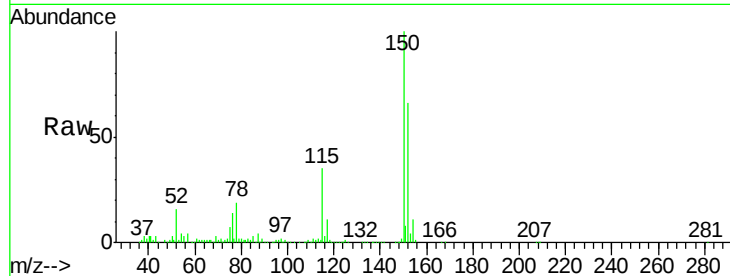


#72

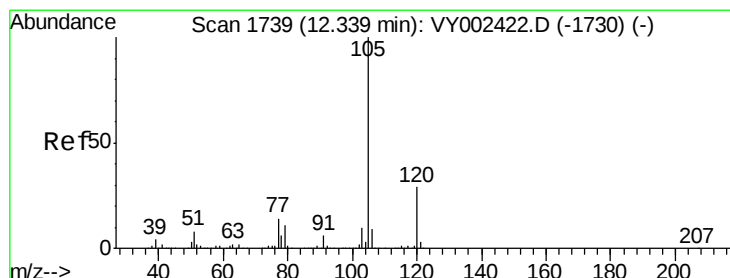
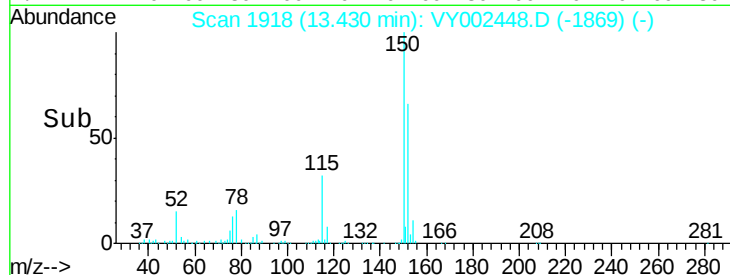
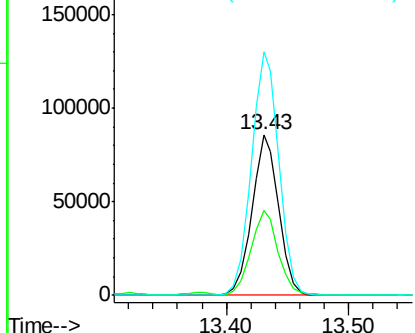
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. 0.00 min
Lab File: VY002448.D
Acq: 21 Apr 2020 20:54

Instrument :
MSVOA_Y
ClientSampleId :
WB-9-2

Tot Ion	Ratio	Lower	Upper
152	100		
115	53.5	27.3	81.8
150	155.4	0.0	344.0



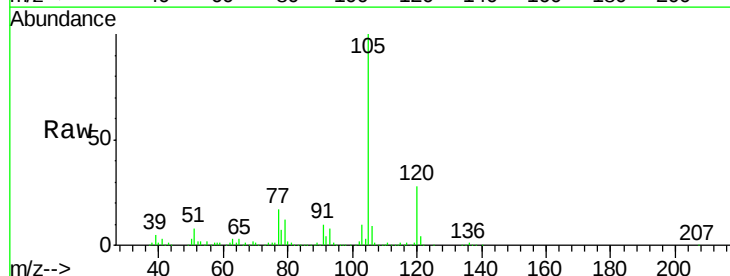
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



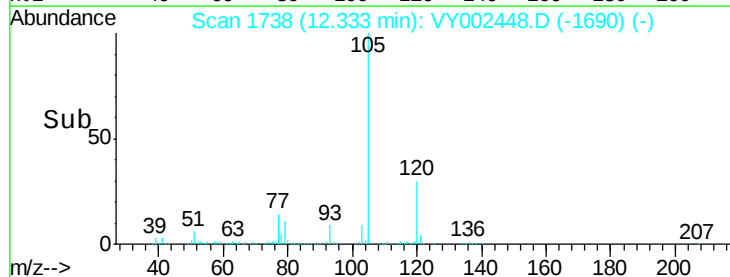
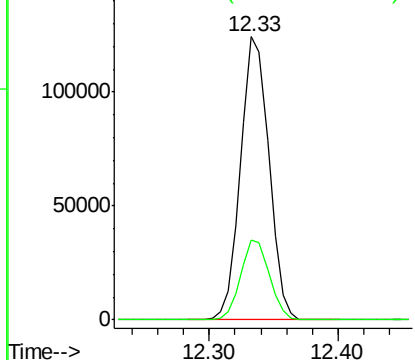
#73

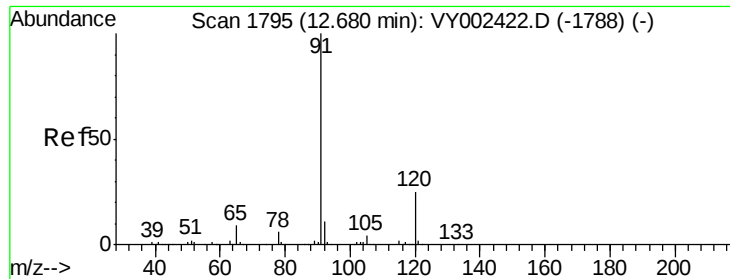
Isopropylbenzene
Concen: 22.143 ug/l
RT: 12.33 min Scan# 1738
Delta R.T. -0.01 min
Lab File: VY002448.D
Acq: 21 Apr 2020 20:54

Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.5	13.9	41.7



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





#78

n-propylbenzene

Concen: 1.574 ug/l

RT: 12.67 min Scan# 1794

Delta R.T. -0.01 min

Lab File: VY002448.D

Acq: 21 Apr 2020 20:54

Instrument :

MSVOA_Y

ClientSampleId :

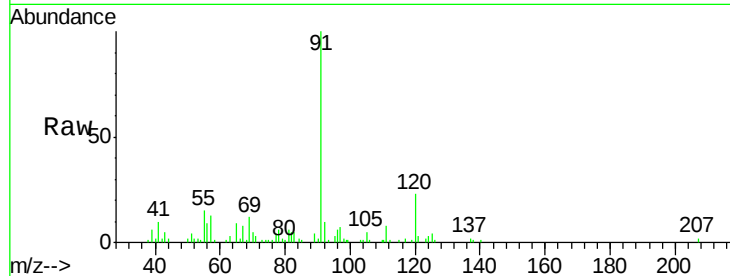
WB-9-2

Tot Ion: 91 Resp: 15862

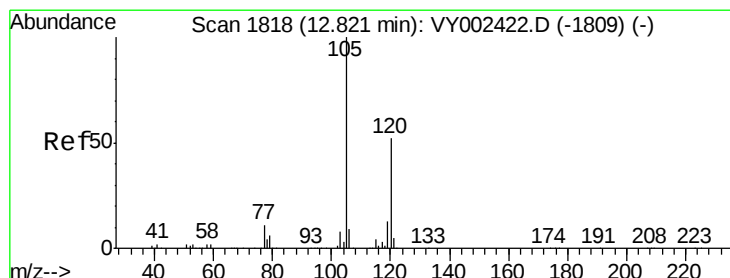
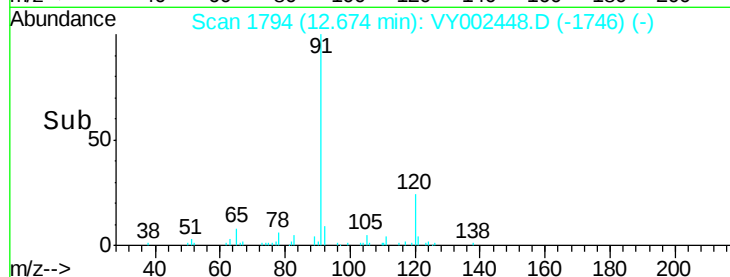
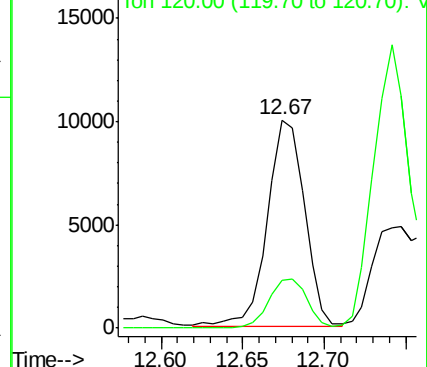
Ion Ratio Lower Upper

91 100

120 24.1 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VY002448.D (-1746) (-)



#80

1,3,5-Trimethylbenzene

Concen: 4.769 ug/l

RT: 12.82 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VY002448.D

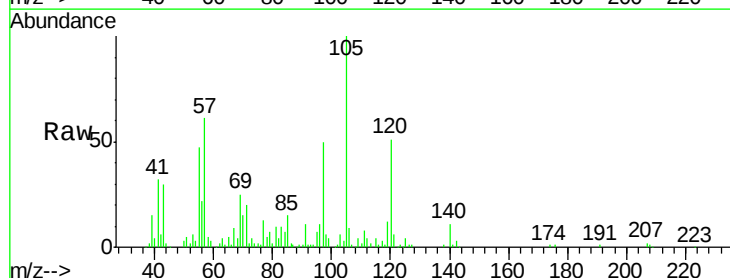
Acq: 21 Apr 2020 20:54

Tgt Ion:105 Resp: 33538

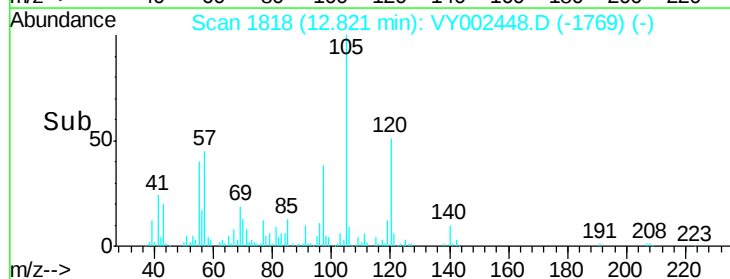
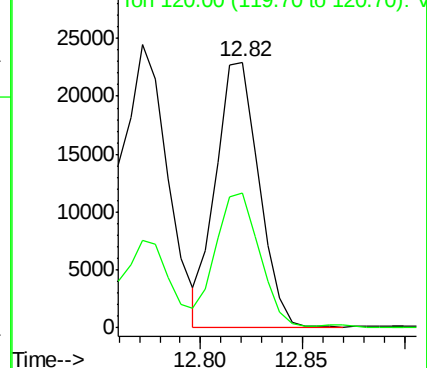
Ion Ratio Lower Upper

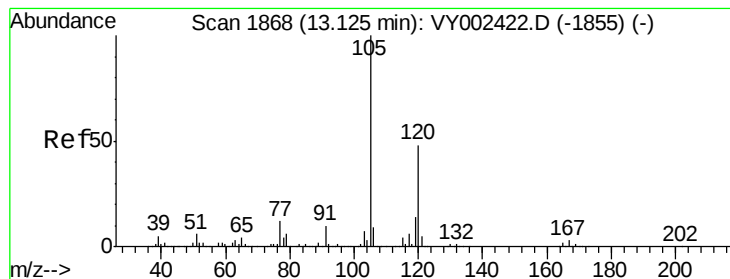
105 100

120 50.9 25.9 77.6



Abundance Ion 105.00 (104.70 to 105.70): VY002448.D (-1769) (-)





#84

1,2,4-Trimethylbenzene

Concen: 21.505 ug/l

RT: 13.13 min Scan# 1868

Delta R.T. 0.00 min

Lab File: VY002448.D

Acq: 21 Apr 2020 20:54

Instrument :

MSVOA_Y

ClientSampleId :

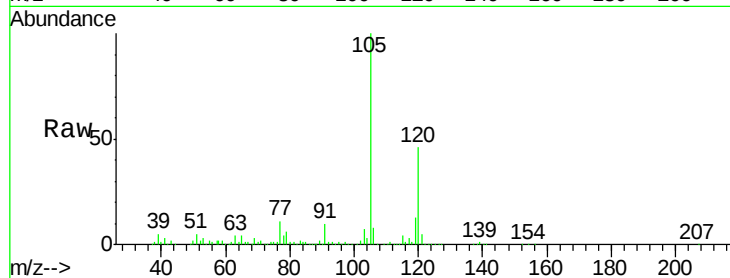
WB-9-2

Tot Ion:105 Resp: 151503

Ion Ratio Lower Upper

105 100

120 48.3 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

120000

100000

80000

60000

40000

20000

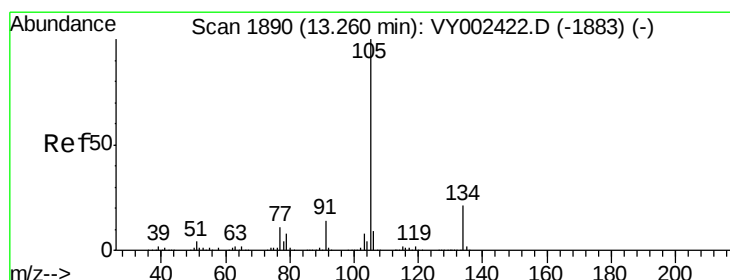
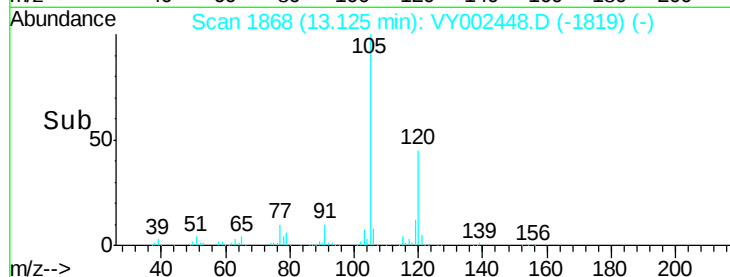
0

13.10

13.13

13.20

Time-->



#85

sec-Butylbenzene

Concen: 1.757 ug/l

RT: 13.26 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VY002448.D

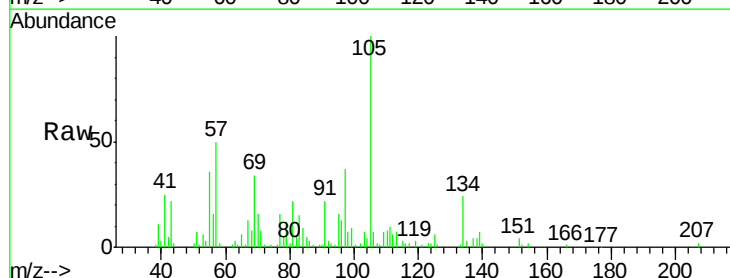
Acq: 21 Apr 2020 20:54

Tgt Ion:105 Resp: 15261

Ion Ratio Lower Upper

105 100

134 32.1 10.5 31.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12000

10000

8000

6000

4000

2000

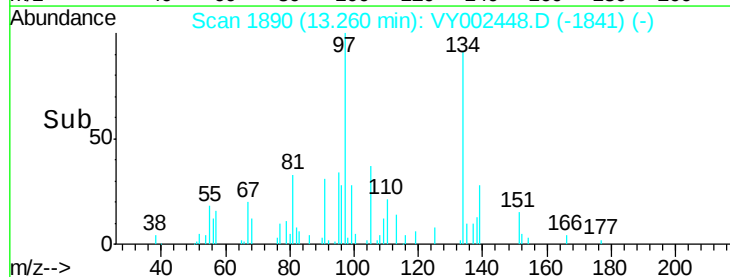
0

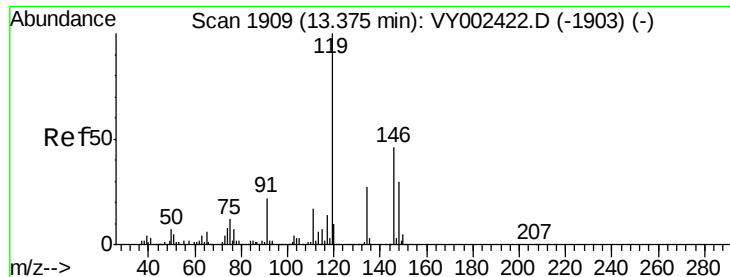
13.20

13.26

13.30

Time-->





#86

p-Isopropyltoluene

Concen: 3.718 ug/l

RT: 13.38 min Scan# 1909

Delta R.T. 0.00 min

Lab File: VY002448.D

Acq: 21 Apr 2020 20:54

Instrument :

MSVOA_Y

ClientSampled :

WB-9-2

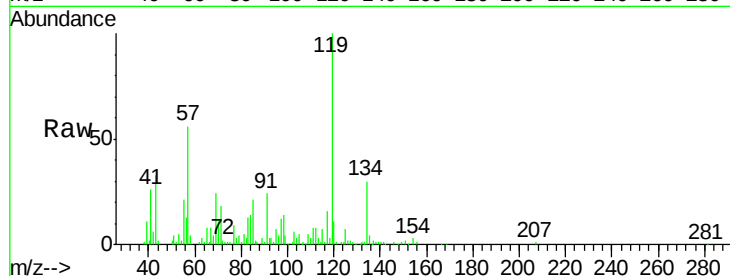
Tot Ion:119 Resp: 29291

Ion Ratio Lower Upper

119 100

134 28.3 13.7 41.1

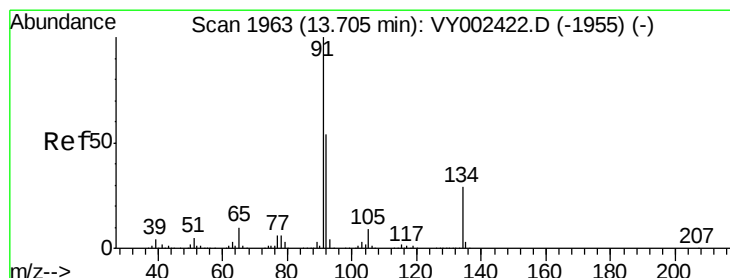
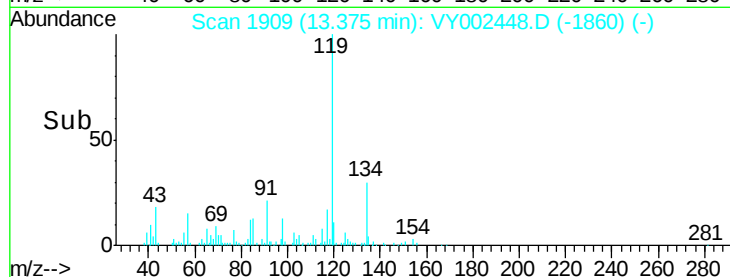
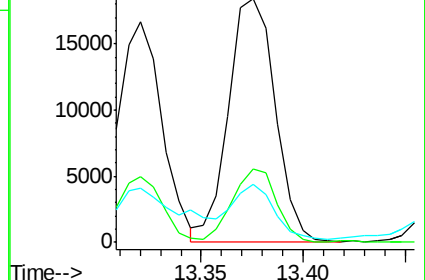
91 20.4 10.7 32.1



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: 1.268 ug/l

RT: 13.70 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VY002448.D

Acq: 21 Apr 2020 20:54

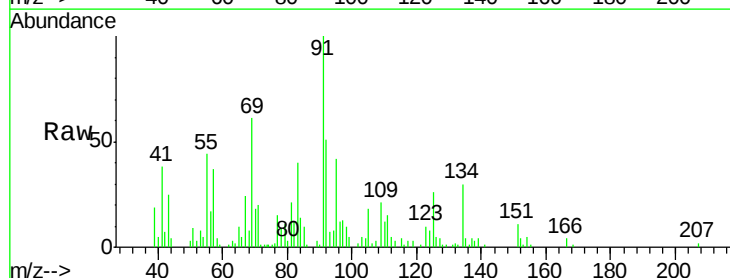
Tgt Ion: 91 Resp: 9315

Ion Ratio Lower Upper

91 100

92 72.1 26.8 80.4

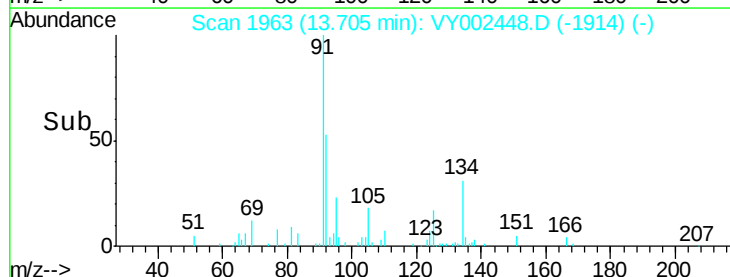
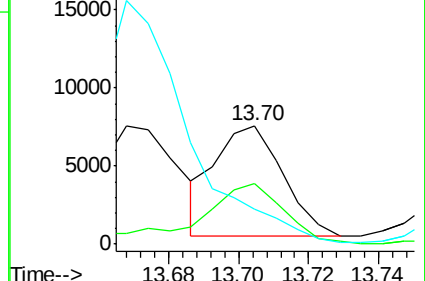
134 0.0 14.4 43.2#

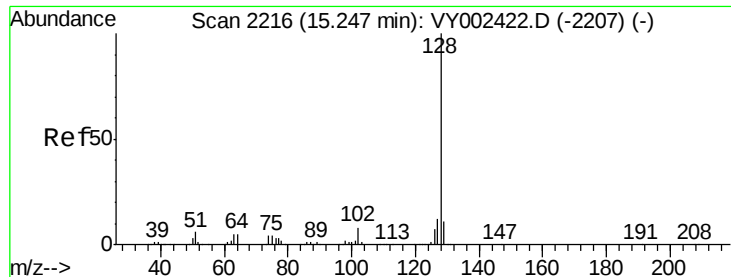


Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 92.00 (91.70 to 92.70): VY0

Ion 134.00 (133.70 to 134.70): V

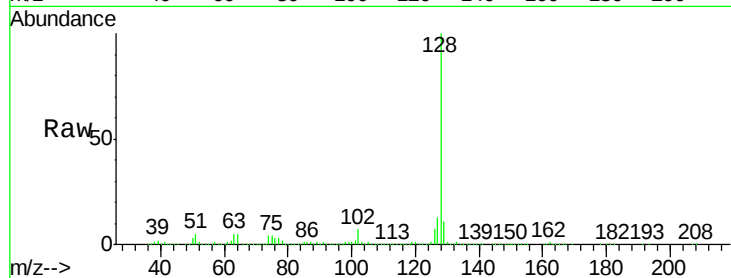




#95
Naphthalene
Concen: 185.901 ug/l
RT: 15.25 min Scan# 2216
Delta R.T. 0.00 min
Lab File: VY002448.D
Acq: 21 Apr 2020 20:54

Instrument :
MSVOA_Y
ClientSampleId :
WB-9-2

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	11.0	9.0	13.6



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

