

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050420\
 Data File : VY002548.D
 Acq On : 04 May 2020 17:55
 Operator : SY/MD
 Sample : L2122-11
 Misc : 7.78G/5ML/MSVOA Y/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SU-03-043020

Quant Time: May 05 08:23:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y043020S.M
 Quant Title : SW846 8260
 QLast Update : Mon May 04 12:22:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	295524	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	483732	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	410151	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.43	152	170597	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.16	65	145821	58.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.36%	
35) Dibromofluoromethane	7.74	113	146178	52.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.68%	
50) Toluene-d8	10.19	98	560982	51.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.86%	
62) 4-Bromofluorobenzene	12.49	95	169138	46.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.28%	

Target Compounds

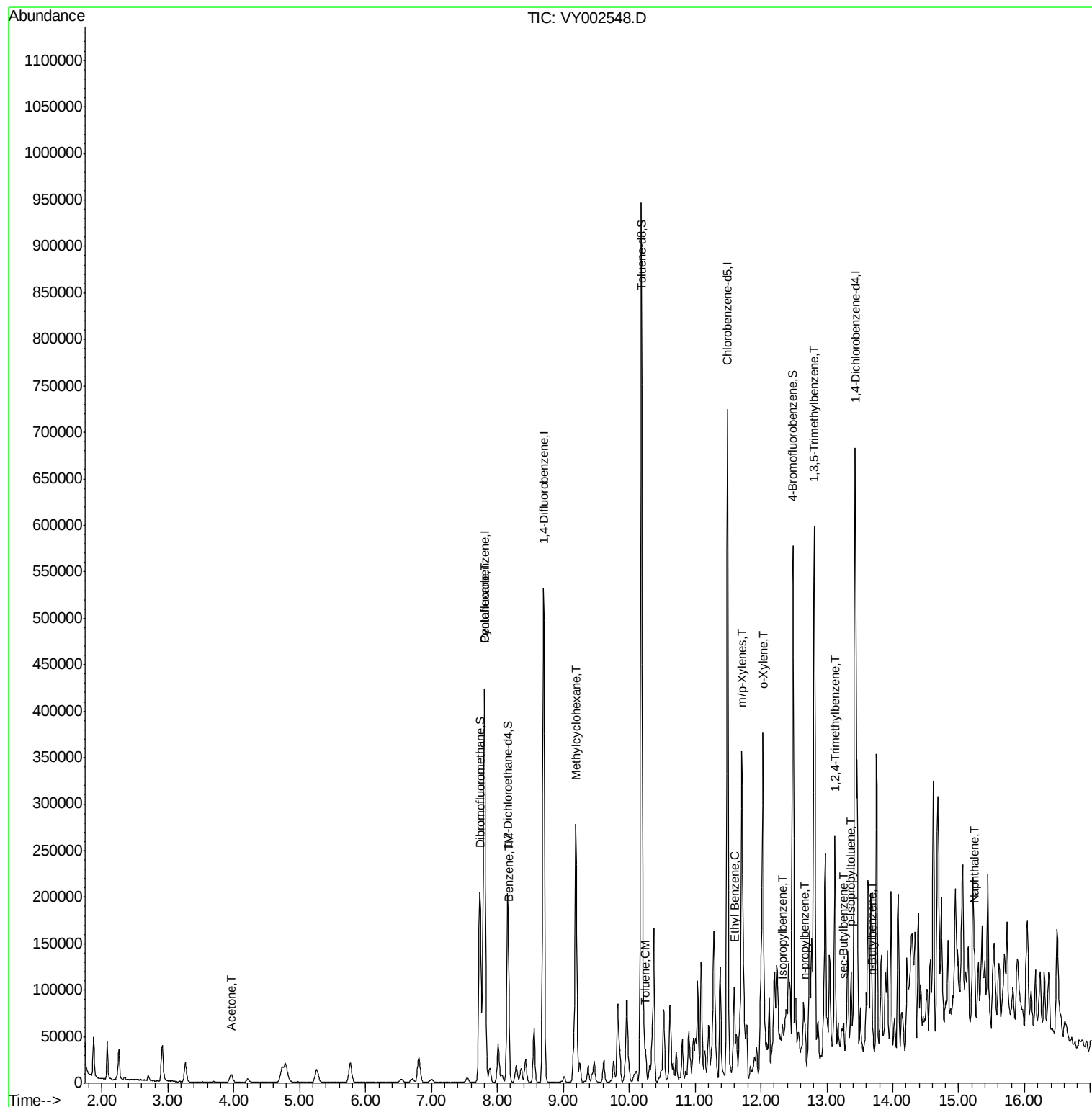
						Qvalue
16) Acetone	3.97	43	9922	19.348	ug/l #	84
31) Cyclohexane	7.80	56	48024	10.753	ug/l #	92
39) Methylcyclohexane	9.19	83	122266	22.827	ug/l	99
40) Benzene	8.17	78	24745	2.113	ug/l #	89
52) Toluene	10.25	92	12713	1.689	ug/l	94
67) Ethyl Benzene	11.60	91	58556	4.275	ug/l	98
68) m/p-Xylenes	11.70	106	37775	7.128	ug/l	97
69) o-Xylene	12.03	106	91486	18.438	ug/l	99
73) Isopropylbenzene	12.33	105	15132	1.369	ug/l	96
78) n-propylbenzene	12.67	91	28150	2.194	ug/l	100
80) 1,3,5-Trimethylbenzene	12.81	105	136961	14.944	ug/l	100
84) 1,2,4-Trimethylbenzene	13.12	105	126275	13.825	ug/l	99
85) sec-Butylbenzene	13.25	105	12638	1.133	ug/l #	69
86) p-Isopropyltoluene	13.37	119	22940	2.196	ug/l	98
89) n-Butylbenzene	13.70	91	11598	1.219	ug/l #	56
95) Naphthalene	15.24	128	35619	5.765	ug/l #	90

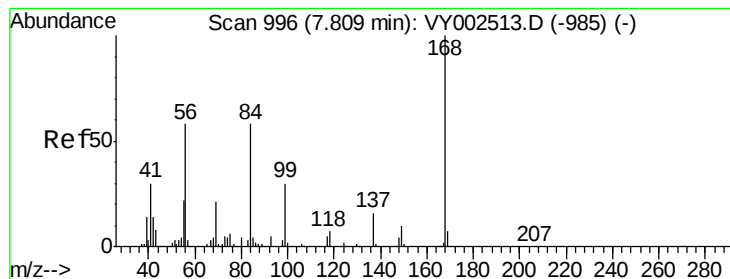
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY050420\
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.01 min

Lab File: VY002548.D

Acq: 04 May 2020 17:55

Instrument :

MSVOA_Y

ClientSampleId :

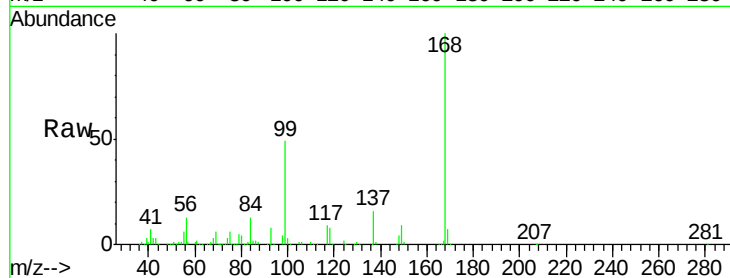
SU-03-043020

Tot Ion:168 Resp: 295524

Ion Ratio Lower Upper

168 100

99 49.4 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002513.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002513.D (-985) (-)

7.80

150000

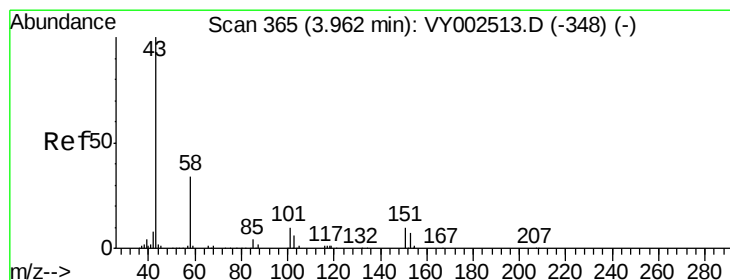
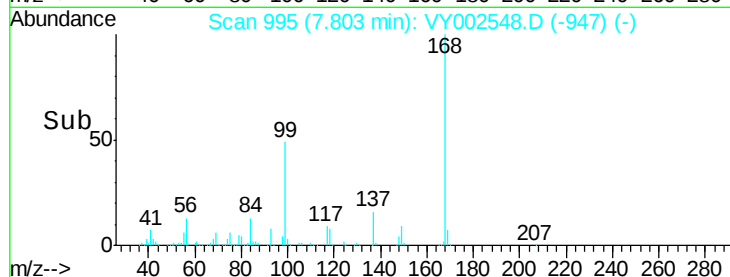
100000

50000

0

7.70 7.80 7.90

Time-->



#16

Acetone

Concen: 19.348 ug/l

RT: 3.97 min Scan# 366

Delta R.T. 0.01 min

Lab File: VY002548.D

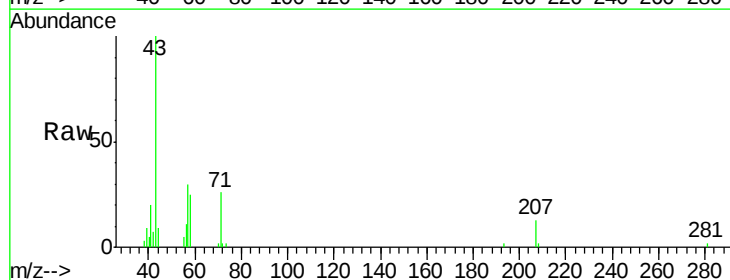
Acq: 04 May 2020 17:55

Tgt Ion: 43 Resp: 9922

Ion Ratio Lower Upper

43 100

58 24.5 26.9 40.3#



Abundance Ion 43.00 (42.70 to 43.70): VY002513.D (-348) (-)

Ion 58.00 (57.70 to 58.70): VY002513.D (-348) (-)

3.97

3000

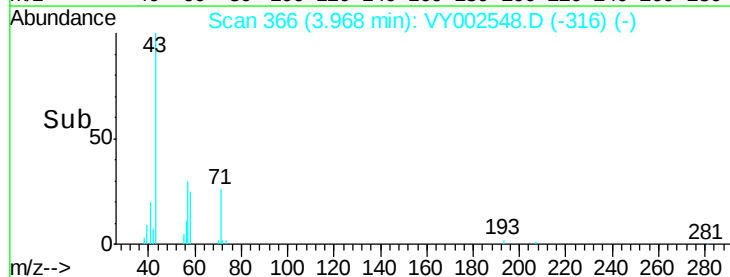
2000

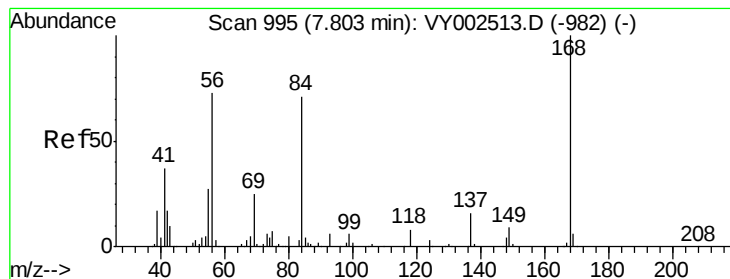
1000

0

3.90 4.00 4.10

Time-->





#31

Cyclohexane

Concen: 10.753 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY002548.D

Acq: 04 May 2020 17:55

Instrument :

MSVOA_Y

ClientSampleId :

SU-03-043020

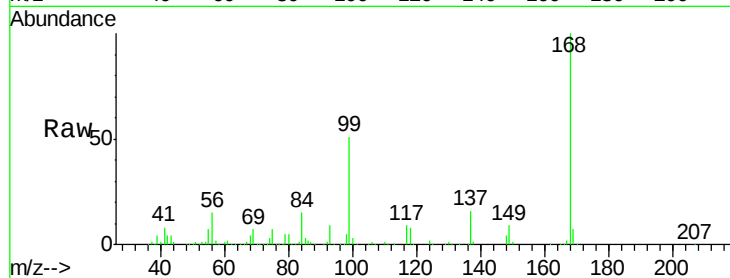
Tot Ion: 56 Resp: 48024

Ion Ratio Lower Upper

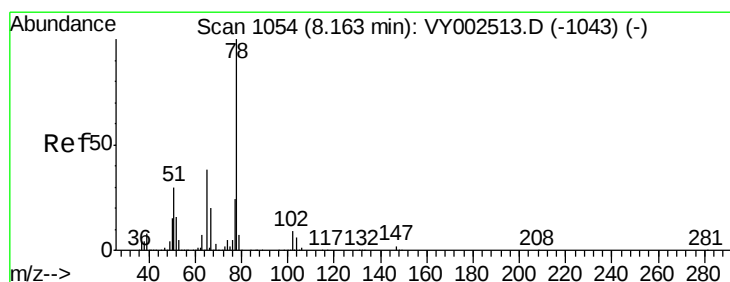
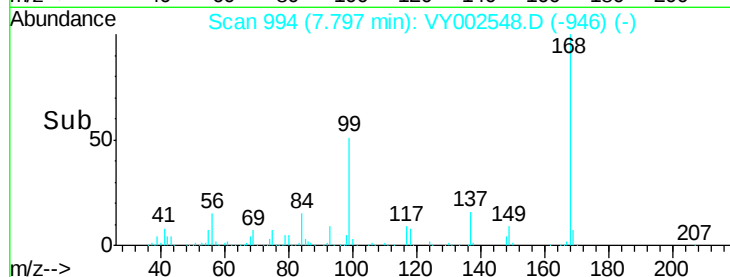
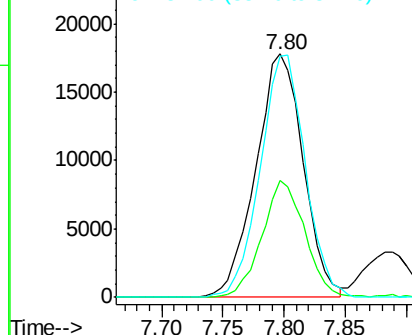
56 100

69 48.3 27.6 41.4#

84 99.2 77.7 116.5



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



#33

1,2-Dichloroethane-d4

Concen: 58.685 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VY002548.D

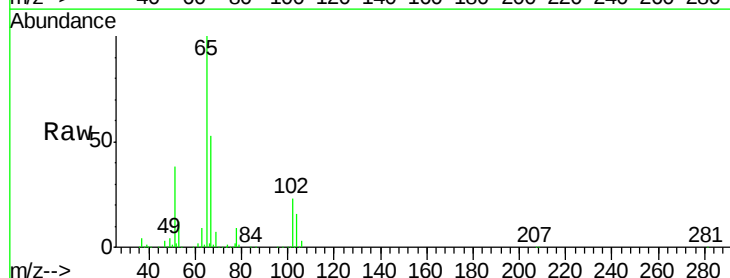
Acq: 04 May 2020 17:55

Tgt Ion: 65 Resp: 145821

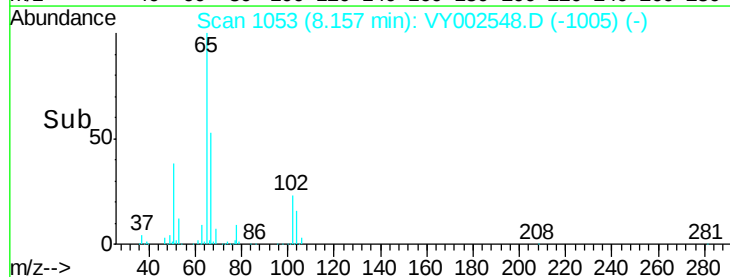
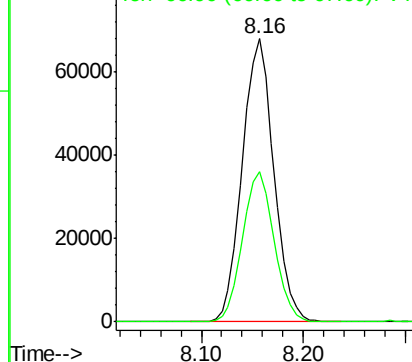
Ion Ratio Lower Upper

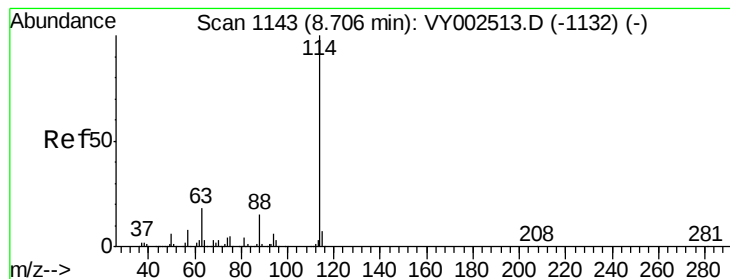
65 100

67 53.2 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: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY002548.D

Acq: 04 May 2020 17:55

Instrument :

MSVOA_Y

ClientSampleId :

SU-03-043020

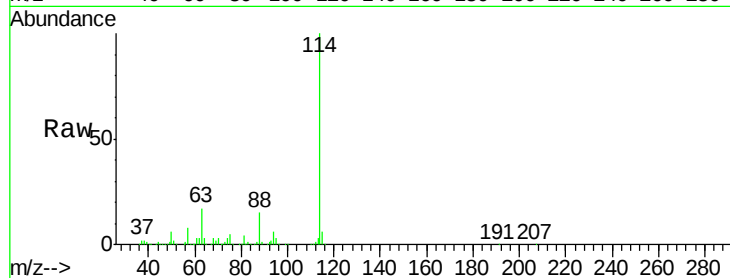
Tot Ion:114 Resp: 483732

Ion Ratio Lower Upper

114 100

63 17.4 0.0 36.4

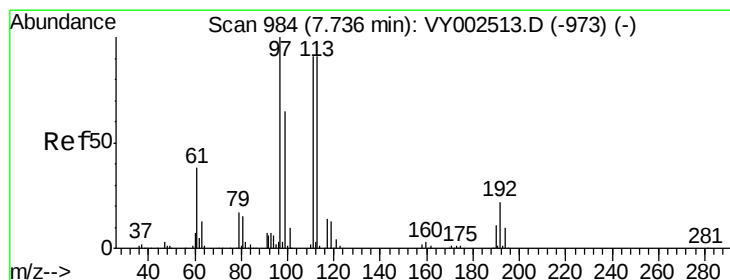
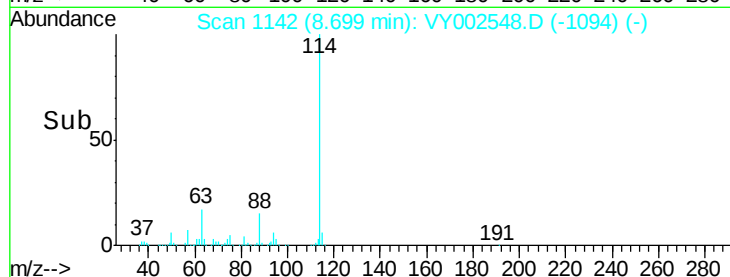
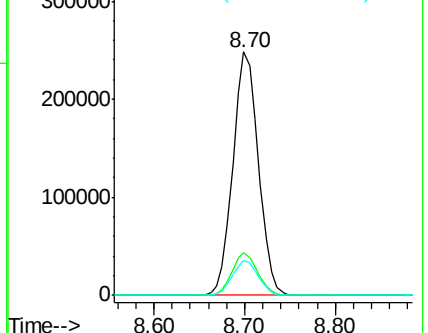
88 14.5 0.0 29.6



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: 52.839 ug/l

RT: 7.74 min Scan# 984

Delta R.T. -0.00 min

Lab File: VY002548.D

Acq: 04 May 2020 17:55

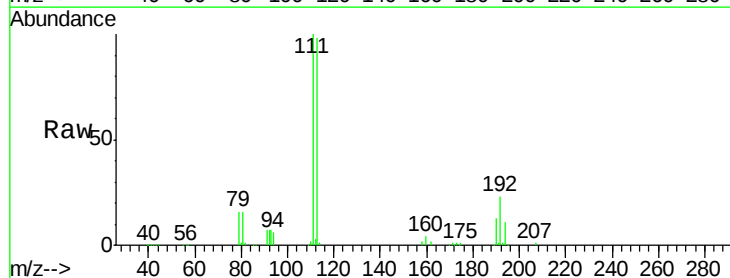
Tgt Ion:113 Resp: 146178

Ion Ratio Lower Upper

113 100

111 103.5 81.8 122.6

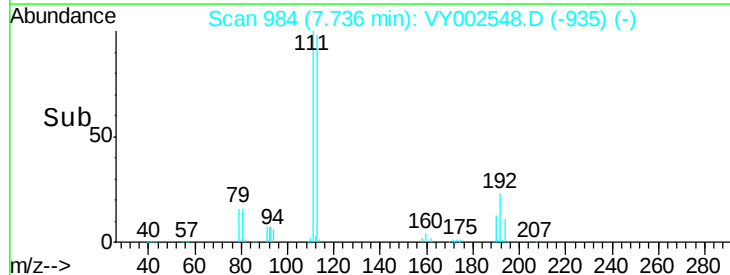
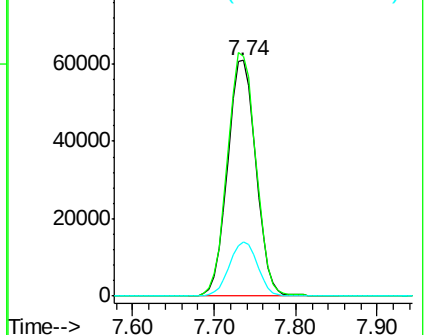
192 22.9 18.2 27.4

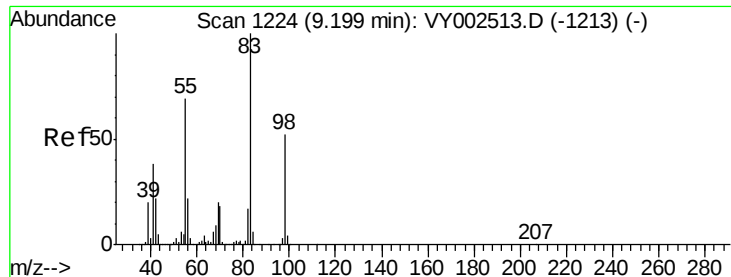


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

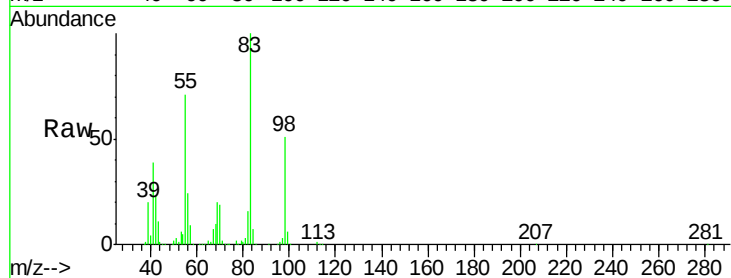




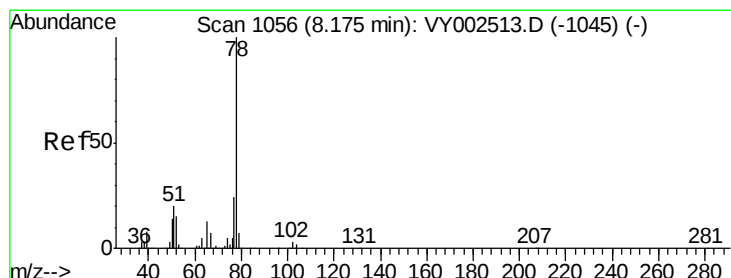
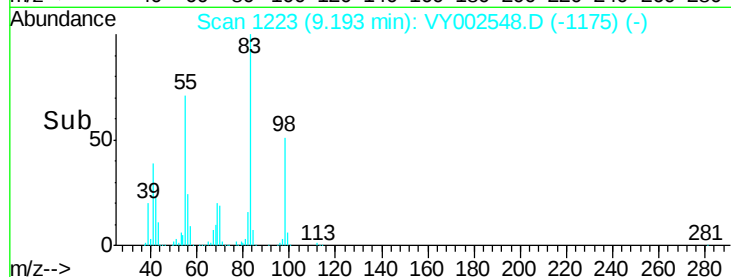
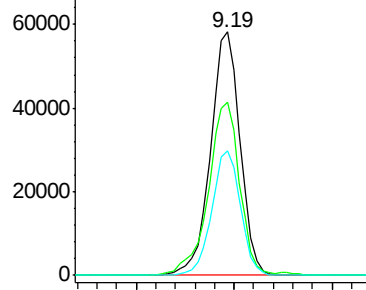
#39
Methvlcvclohexane
Concen: 22.827 ug/l
RT: 9.19 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VY002548.D
Acq: 04 May 2020 17:55

Instrument :
MSVOA_Y
ClientSampleId :
SU-03-043020

Tot Ion: 83 Resp: 122266
Ion Ratio Lower Upper
83 100
55 71.1 55.4 83.0
98 51.3 41.3 61.9

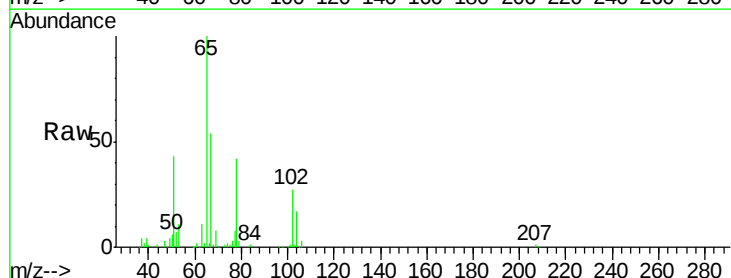


Abundance Ion 83.00 (82.70 to 83.70): VY0
Ion 55.00 (54.70 to 55.70): VY0
Ion 98.00 (97.70 to 98.70): VY0

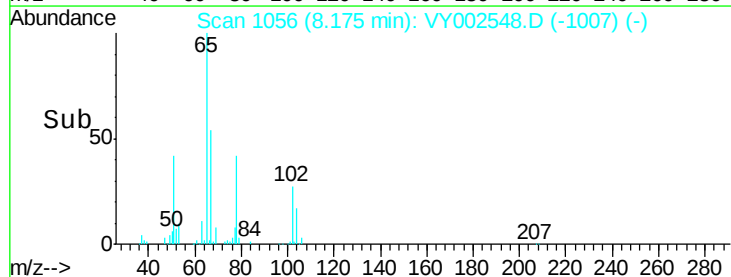
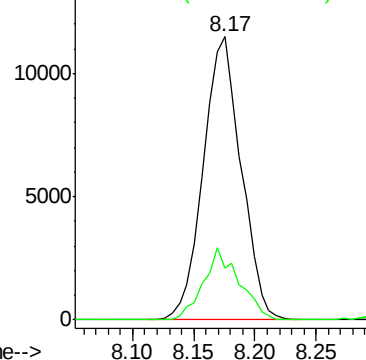


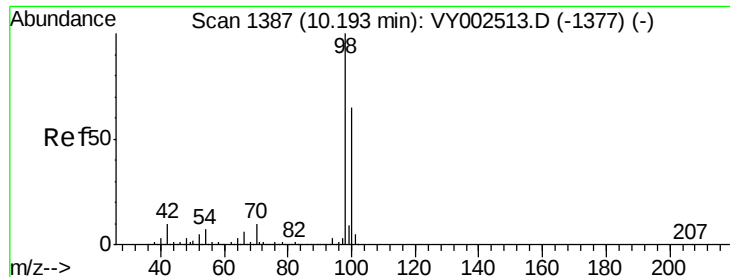
#40
Benzene
Concen: 2.113 ug/l
RT: 8.17 min Scan# 1056
Delta R.T. -0.00 min
Lab File: VY002548.D
Acq: 04 May 2020 17:55

Tgt Ion: 78 Resp: 24745
Ion Ratio Lower Upper
78 100
77 18.4 19.2 28.8#



Abundance Ion 78.00 (77.70 to 78.70): VY0
Ion 77.00 (76.70 to 77.70): VY0





#50

Toluene-d8

Concen: 51.926 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. -0.01 min

Lab File: VY002548.D

Acq: 04 May 2020 17:55

Instrument :

MSVOA_Y

ClientSampleId :

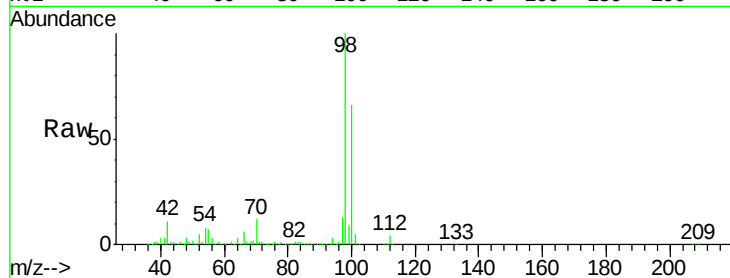
SU-03-043020

Tot Ion: 98 Resp: 560982

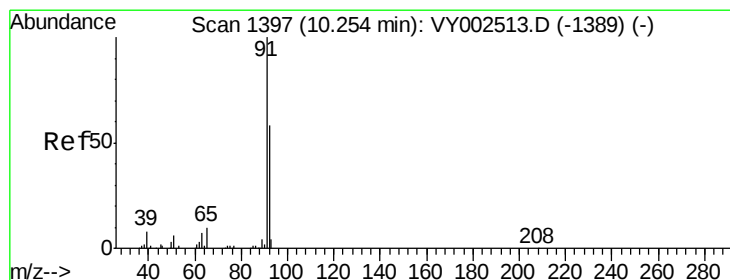
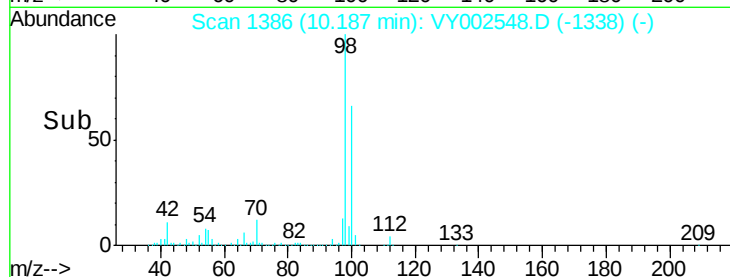
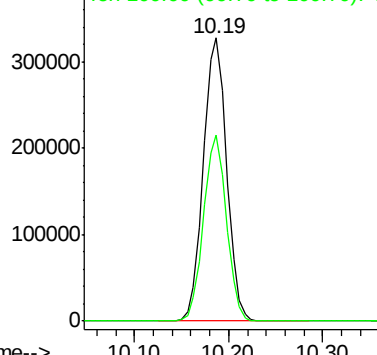
Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VY002513.D (-1377) (-)



#52

Toluene

Concen: 1.689 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. -0.01 min

Lab File: VY002548.D

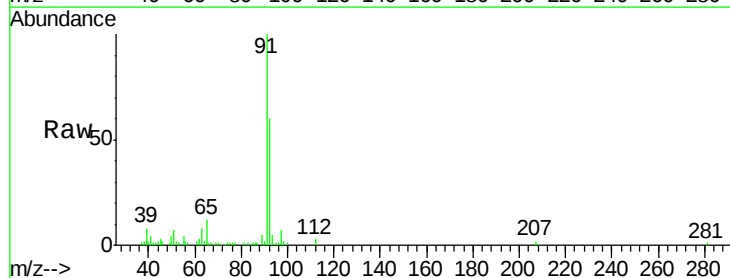
Acq: 04 May 2020 17:55

Tgt Ion: 92 Resp: 12713

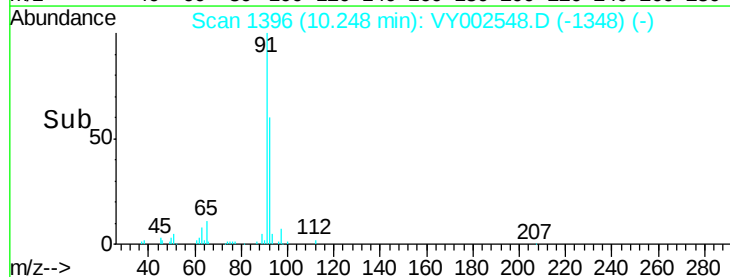
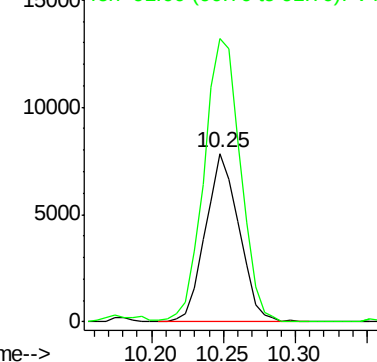
Ion Ratio Lower Upper

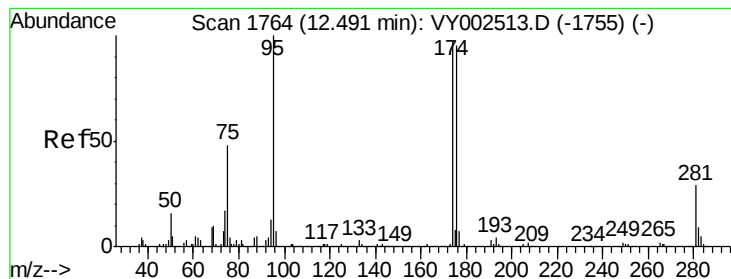
92 100

91 182.3 139.3 208.9



Abundance Ion 92.00 (91.70 to 92.70): VY002513.D (-1389) (-)





#62

4-Bromofluorobenzene

Concen: 46.138 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VY002548.D

Acq: 04 May 2020 17:55

Instrument :

MSVOA_Y

ClientSampleId :

SU-03-043020

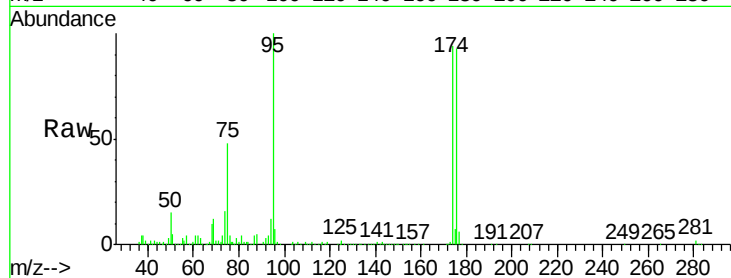
Tot Ion: 95 Resp: 169138

Ion Ratio Lower Upper

95 100

174 91.4 0.0 188.8

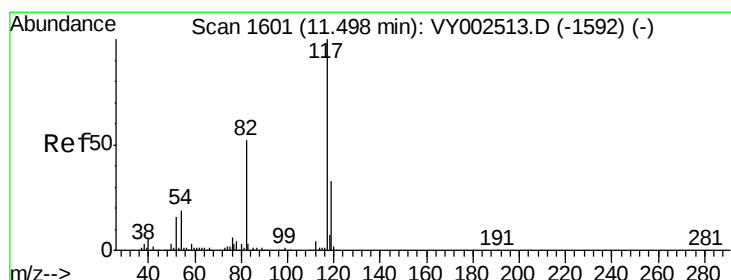
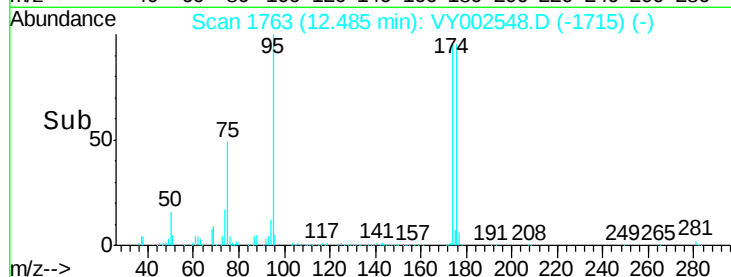
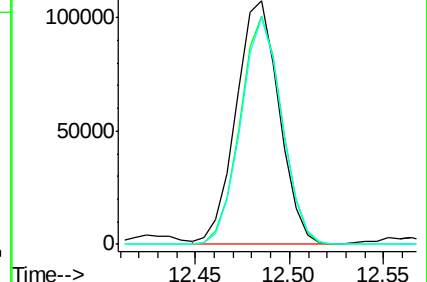
176 89.7 0.0 183.2



Abundance Ion 94.90 (94.60 to 95.60): VY002513.D (-1755) (-)

Ion 173.80 (173.50 to 174.50): VY002513.D (-1755) (-)

Ion 175.80 (175.50 to 176.50): VY002513.D (-1755) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. -0.01 min

Lab File: VY002548.D

Acq: 04 May 2020 17:55

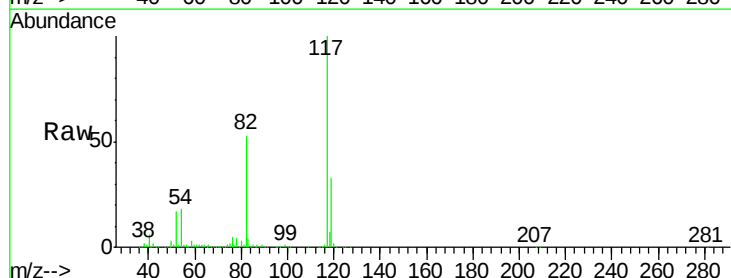
Tgt Ion: 117 Resp: 410151

Ion Ratio Lower Upper

117 100

82 52.8 41.3 61.9

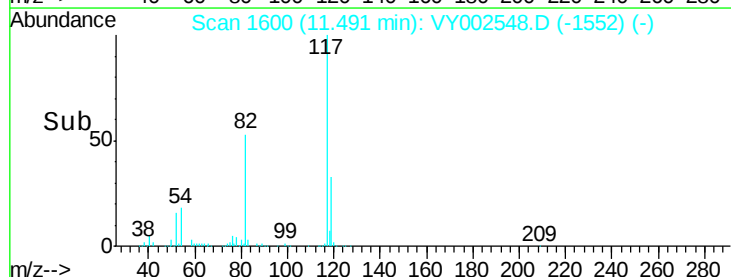
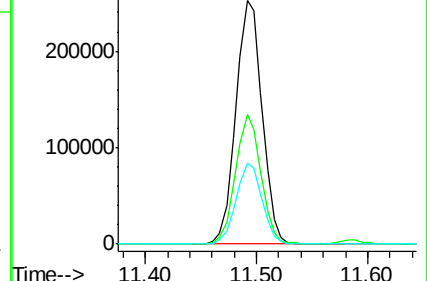
119 33.2 26.0 39.0

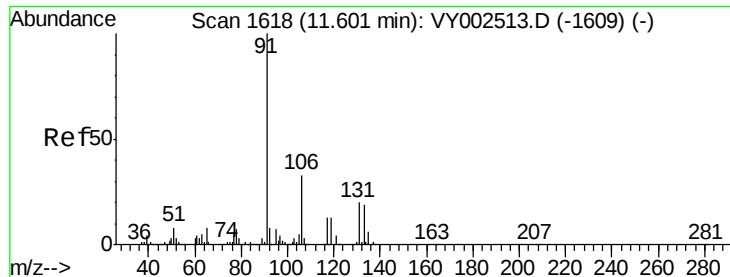


Abundance Ion 116.90 (116.60 to 117.60): VY002513.D (-1592) (-)

Ion 82.00 (81.70 to 82.70): VY002513.D (-1592) (-)

Ion 118.90 (118.60 to 119.60): VY002513.D (-1592) (-)





#67

Ethyl Benzene

Concen: 4.275 ug/l

RT: 11.60 min Scan# 1617

Delta R.T. -0.01 min

Lab File: VY002548.D

Acq: 04 May 2020 17:55

Instrument :

MSVOA_Y

ClientSampleId :

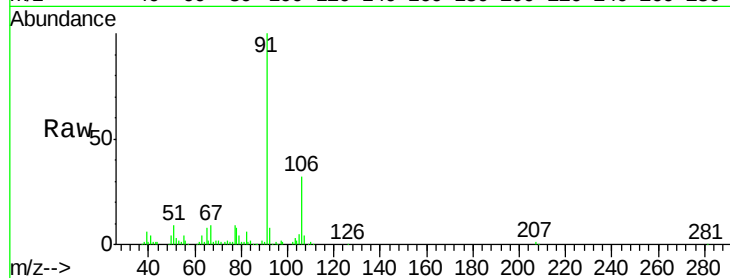
SU-03-043020

Tot Ion: 91 Resp: 58556

Ion Ratio Lower Upper

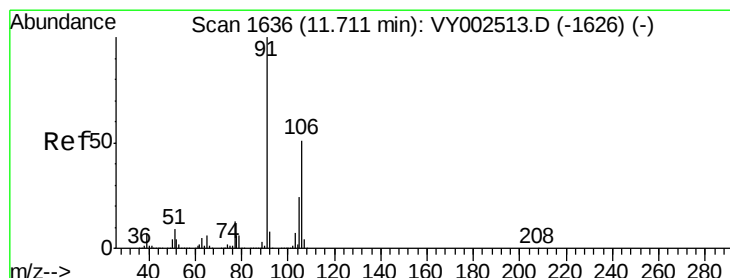
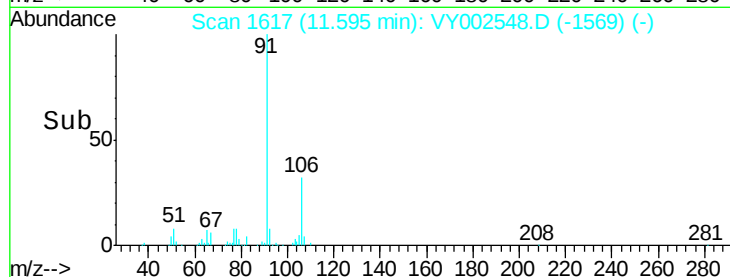
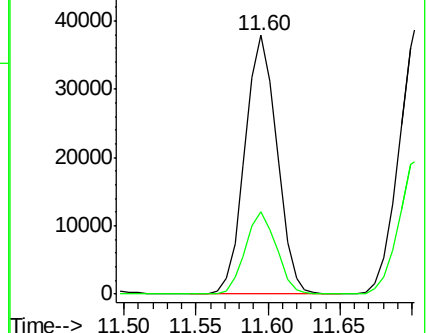
91 100

106 31.7 26.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VY002513.D (-1609) (-)

Ion 106.00 (105.70 to 106.70): VY002513.D (-1609) (-)



#68

m/p-Xylenes

Concen: 7.128 ug/l

RT: 11.70 min Scan# 1635

Delta R.T. -0.01 min

Lab File: VY002548.D

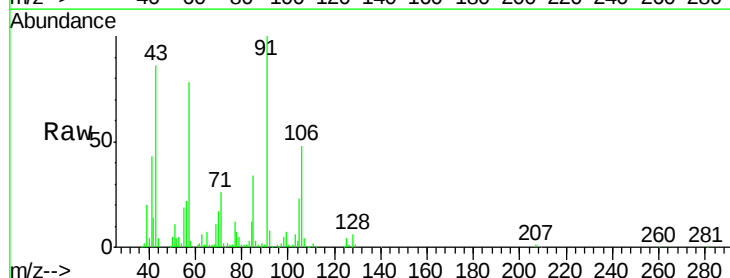
Acq: 04 May 2020 17:55

Tgt Ion: 106 Resp: 37775

Ion Ratio Lower Upper

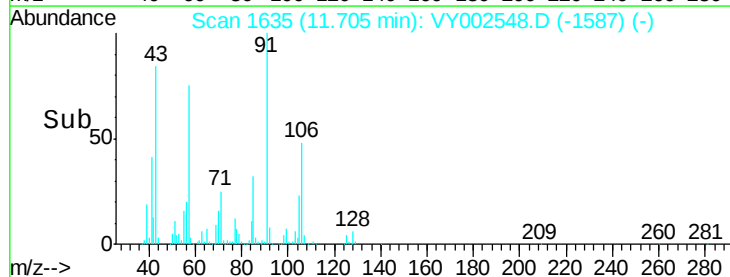
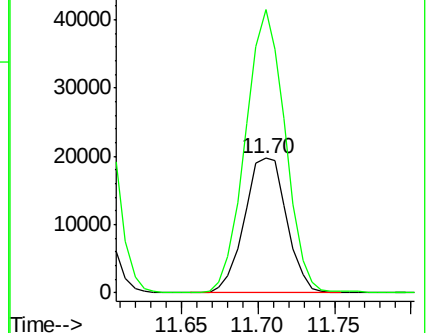
106 100

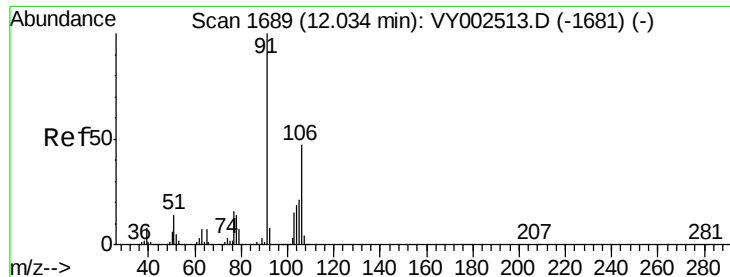
91 198.7 155.2 232.8



Abundance Ion 106.00 (105.70 to 106.70): VY002513.D (-1626) (-)

Ion 91.00 (90.70 to 91.70): VY002513.D (-1626) (-)

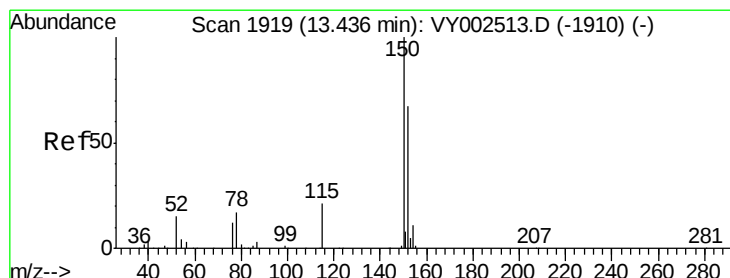
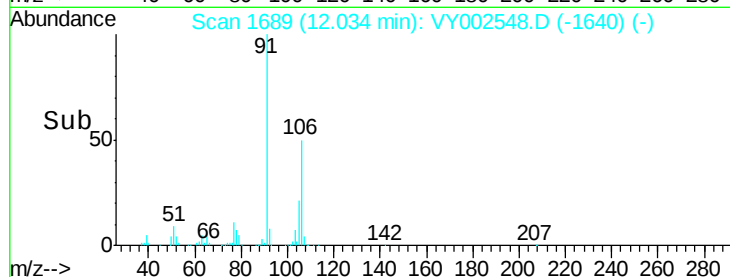
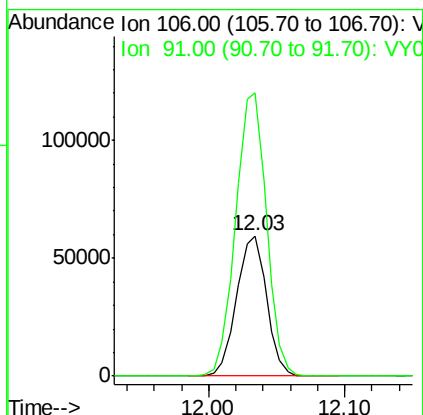
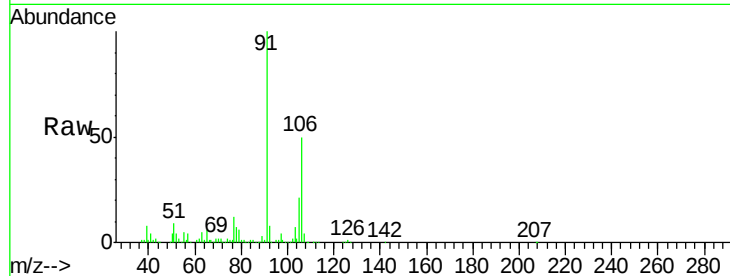




#69
o-Xylene
Concen: 18.438 ug/l
RT: 12.03 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VY002548.D
Acq: 04 May 2020 17:55

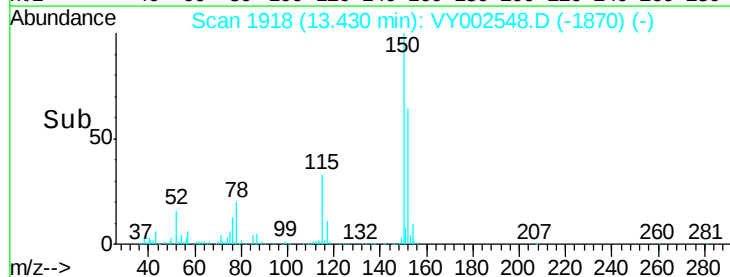
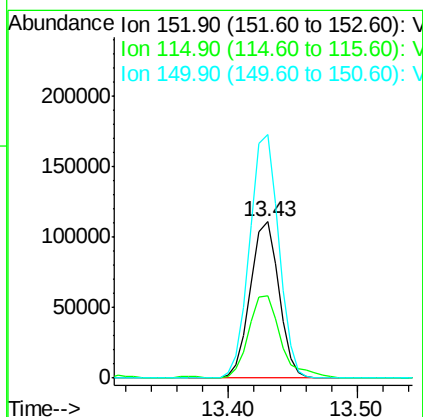
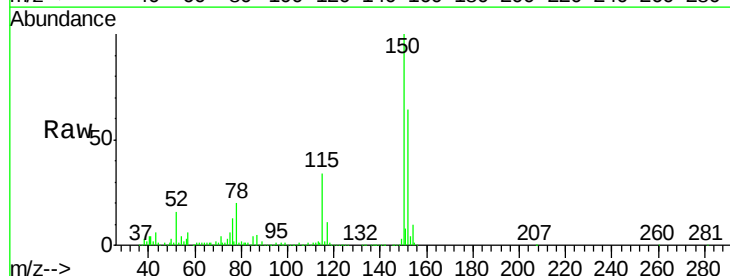
Instrument :
MSVOA_Y
ClientSampled :
SU-03-043020

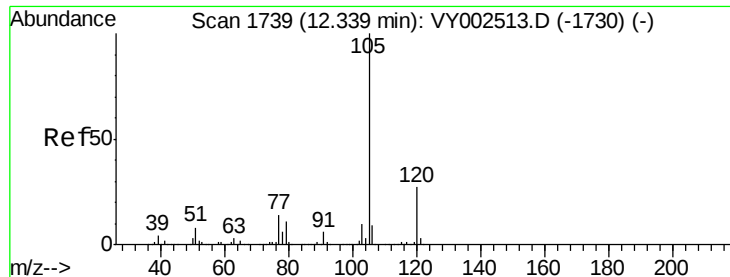
Tot Ion:106 Resp: 91486
Ion Ratio Lower Upper
106 100
91 208.3 103.8 311.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.01 min
Lab File: VY002548.D
Acq: 04 May 2020 17:55

Tgt Ion:152 Resp: 170597
Ion Ratio Lower Upper
152 100
115 58.7 27.5 82.4
150 157.3 0.0 346.4





#73

Isopropylbenzene

Concen: 1.369 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. -0.01 min

Lab File: VY002548.D

Acq: 04 May 2020 17:55

Instrument :

MSVOA_Y

ClientSampled :

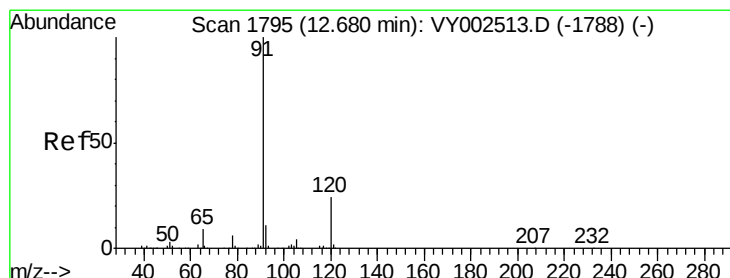
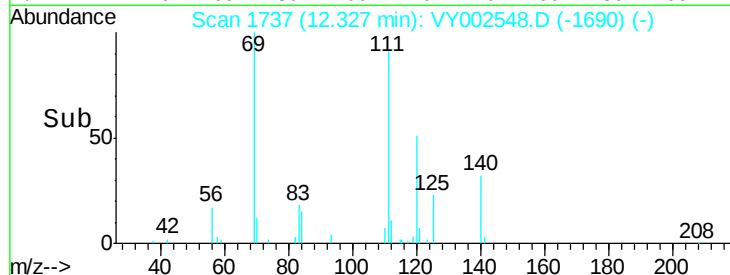
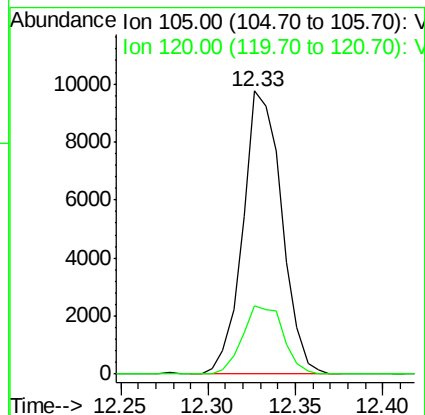
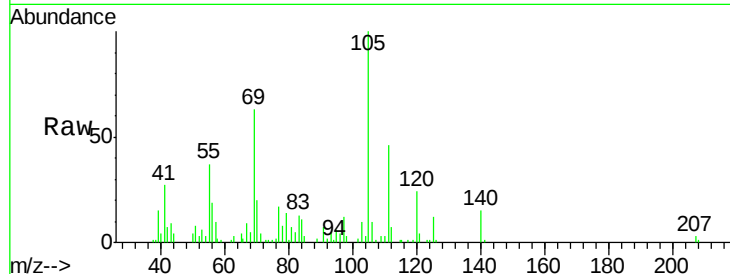
SU-03-043020

Tot Ion:105 Resp: 15132

Ion Ratio Lower Upper

105 100

120 25.3 13.8 41.3



#78

n-propylbenzene

Concen: 2.194 ug/l

RT: 12.67 min Scan# 1794

Delta R.T. -0.01 min

Lab File: VY002548.D

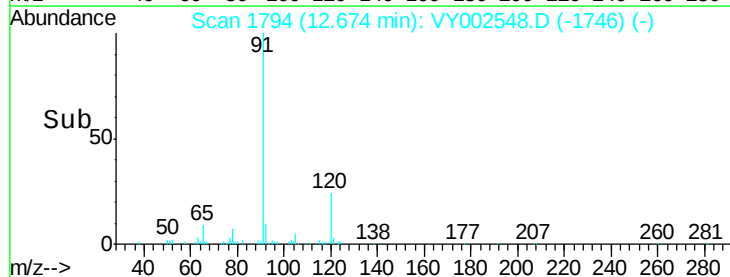
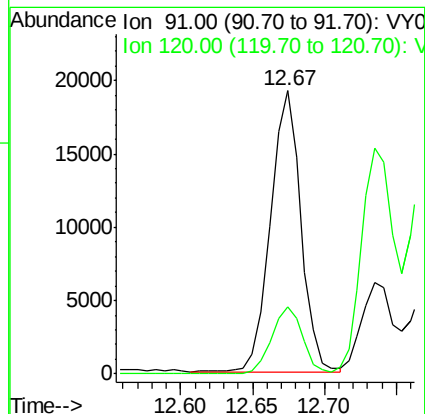
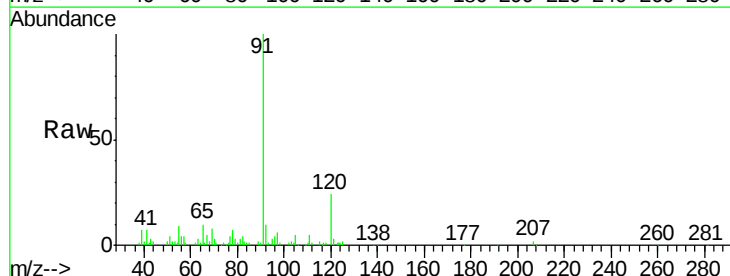
Acq: 04 May 2020 17:55

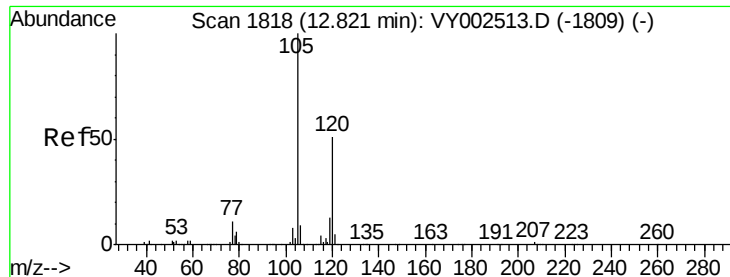
Tgt Ion: 91 Resp: 28150

Ion Ratio Lower Upper

91 100

120 24.4 12.2 36.4





#80

1,3,5-Trimethylbenzene

Concen: 14.944 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. -0.01 min

Lab File: VY002548.D

Acq: 04 May 2020 17:55

Instrument :

MSVOA_Y

ClientSampled :

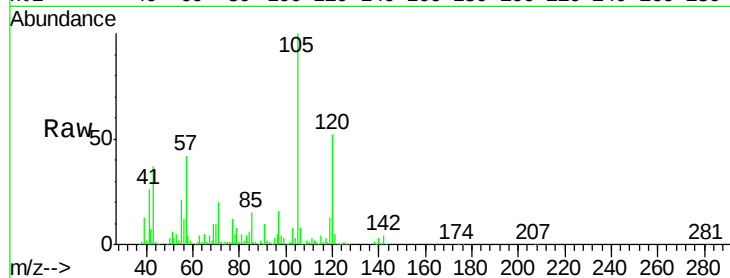
SU-03-043020

Tot Ion:105 Resp: 136961

Ion Ratio Lower Upper

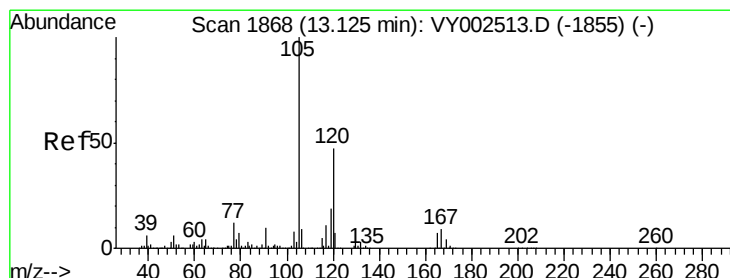
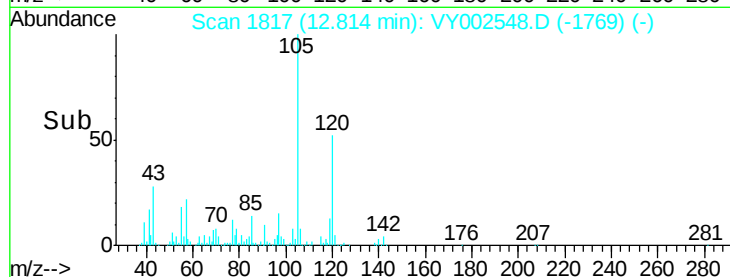
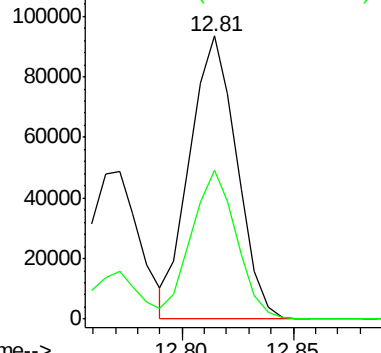
105 100

120 50.6 25.3 75.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 13.825 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.01 min

Lab File: VY002548.D

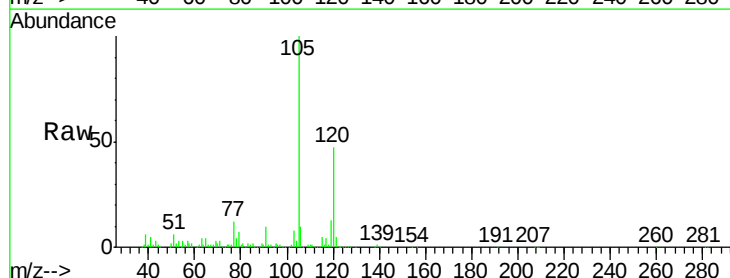
Acq: 04 May 2020 17:55

Tgt Ion:105 Resp: 126275

Ion Ratio Lower Upper

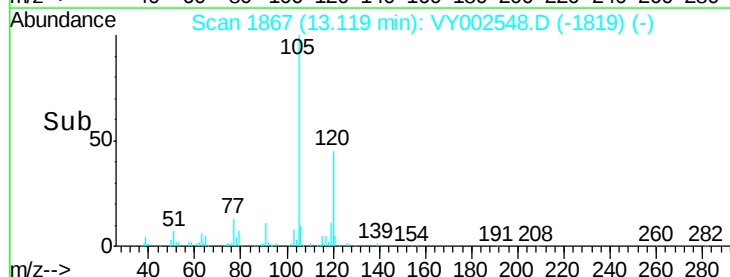
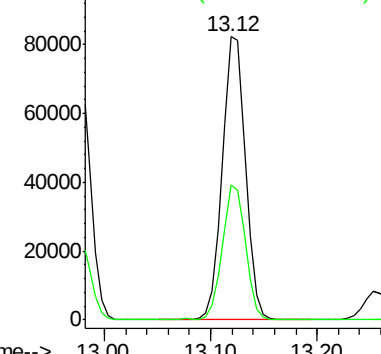
105 100

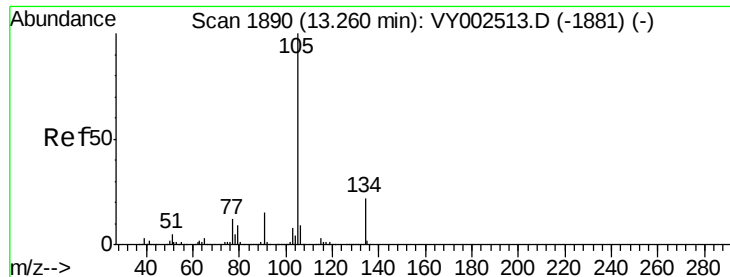
120 47.7 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 1.133 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. -0.01 min

Lab File: VY002548.D

Acq: 04 May 2020 17:55

Instrument :

MSVOA_Y

ClientSampleId :

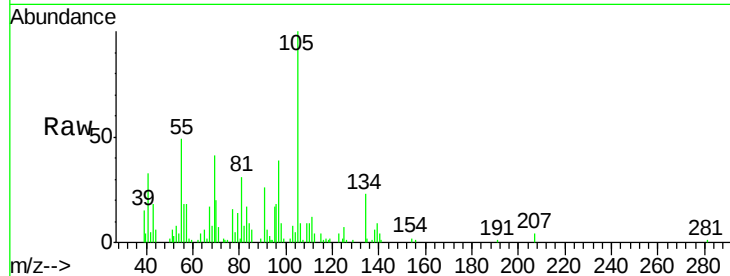
SU-03-043020

Tot Ion:105 Resp: 12638

Ion Ratio Lower Upper

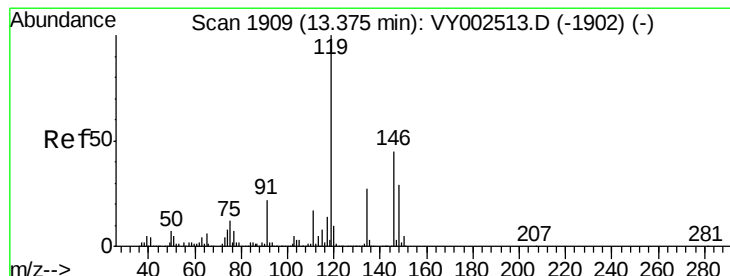
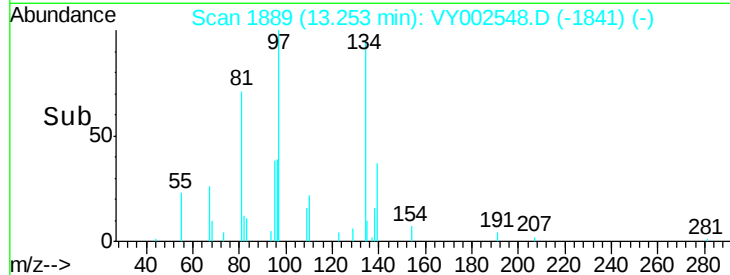
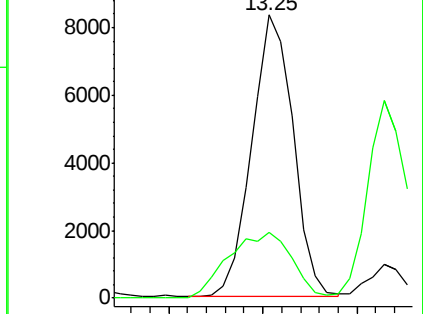
105 100

134 35.9 10.8 32.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.196 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.01 min

Lab File: VY002548.D

Acq: 04 May 2020 17:55

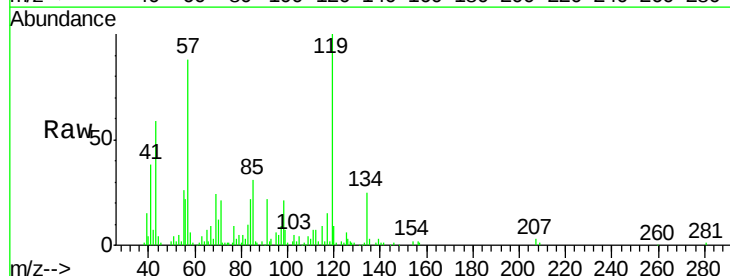
Tgt Ion:119 Resp: 22940

Ion Ratio Lower Upper

119 100

134 26.9 13.5 40.5

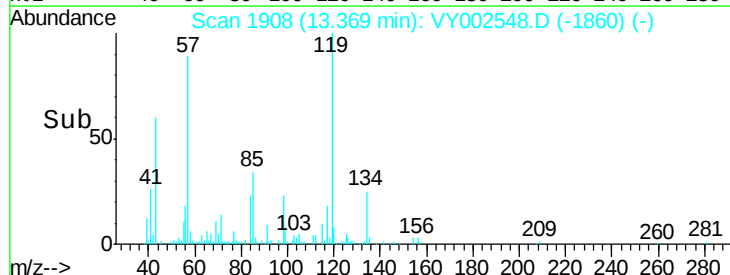
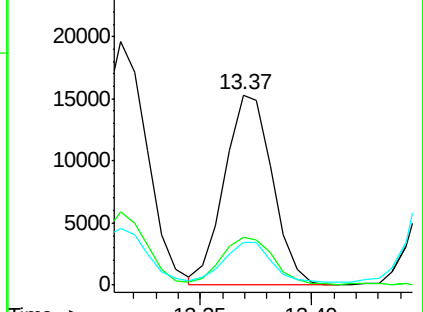
91 20.2 10.9 32.9

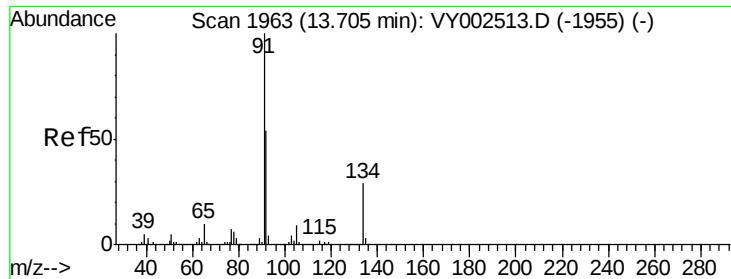


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0





#89

n-Butylbenzene

Concen: 1.219 ug/l

RT: 13.70 min Scan# 1962

Delta R.T. -0.01 min

Lab File: VY002548.D

Acq: 04 May 2020 17:55

Instrument :

MSVOA_Y

ClientSampleId :

SU-03-043020

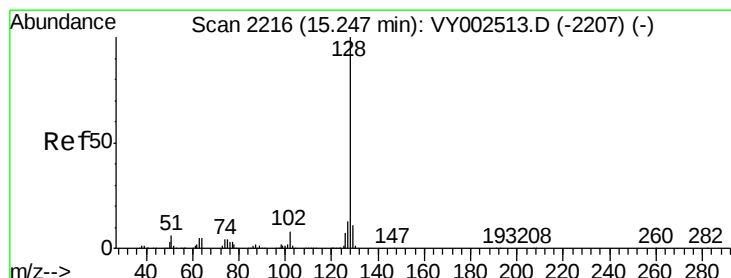
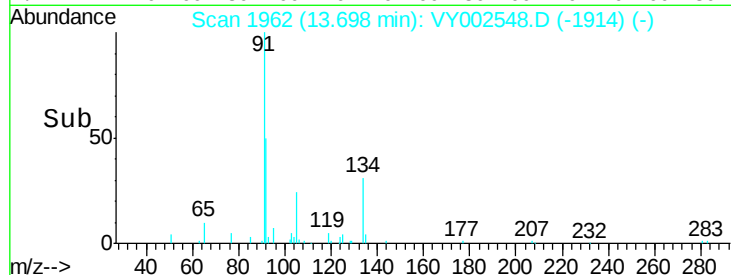
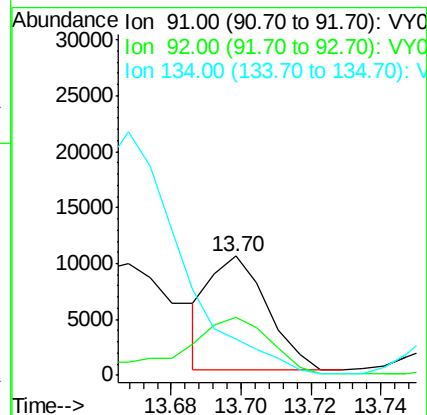
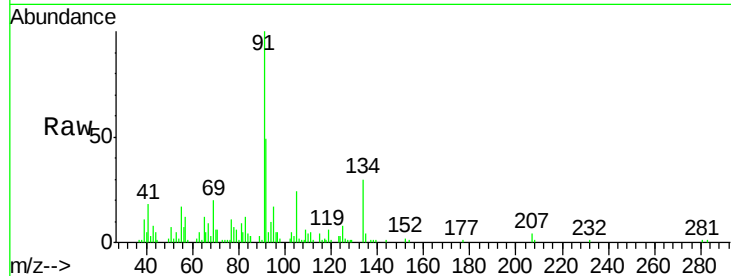
Tot Ion: 91 Resp: 11598

Ion Ratio Lower Upper

91 100

92 82.0 27.1 81.3#

134 0.0 14.4 43.0#



#95

Naphthalene

Concen: 5.765 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VY002548.D

Acq: 04 May 2020 17:55

Tgt Ion: 128 Resp: 35619

Ion Ratio Lower Upper

128 100

127 17.2 10.5 15.7#

129 14.6 8.8 13.2#

