

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061825\
 Data File : VY022736.D
 Acq On : 18 Jun 2025 13:29
 Operator : SY/MD
 Sample : Q2307-02
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LINDEN-SAA

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/21/2025
 Supervised By :Mahesh Dadoda 06/21/2025

Quant Time: Jun 19 04:00:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 10 15:26:14 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	86683	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	163127	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	144569	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	60918	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	53154	54.826	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.660%			
35) Dibromofluoromethane	7.634	113	52299	53.713	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.420%			
50) Toluene-d8	10.103	98	202476	51.465	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.920%			
62) 4-Bromofluorobenzene	12.402	95	57356	48.930	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.860%			
Target Compounds						
					Qvalue	
16) Acetone	3.873	43	1607	8.162	ug/l #	82
20) Methylene Chloride	4.604	84	11388	10.182	ug/l	98
52) Toluene	10.164	92	8749	2.983	ug/l	100
67) Ethyl Benzene	11.518	91	45155	7.610	ug/l	98
68) m/p-Xylenes	11.621	106	69644	30.961	ug/l	99
69) o-Xylene	11.950	106	50806	24.090	ug/l	96
78) n-propylbenzene	12.591	91	21155	3.463	ug/l #	54
80) 1,3,5-Trimethylbenzene	12.731	105	737753	187.890	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	1518547	386.677	ug/l	99
85) sec-Butylbenzene	13.170	105	42817m	7.933	ug/l	
86) p-Isopropyltoluene	13.286	119	47393	10.653	ug/l	99
95) Naphthalene	15.139	128	7821243	4116.075	ug/l	98

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

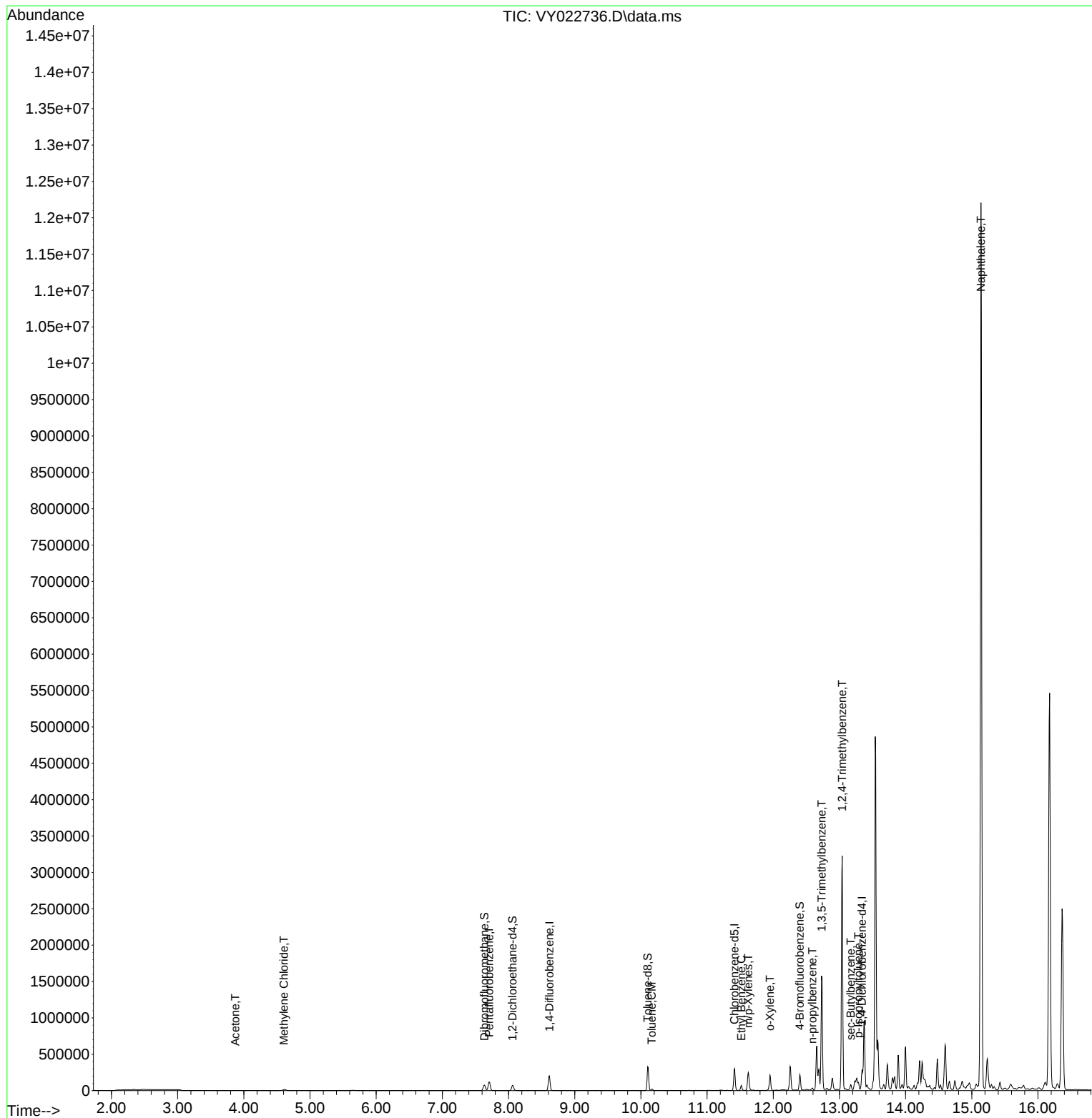
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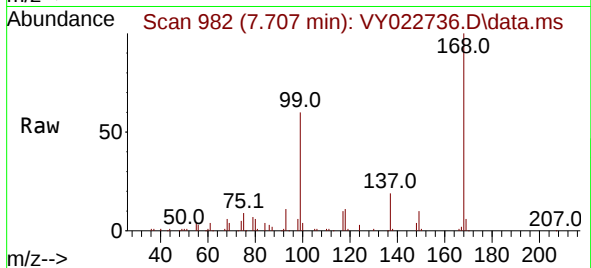
Quant Time: Jun 19 04:00:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 10 15:26:14 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022736.D
Acq: 18 Jun 2025 13:29

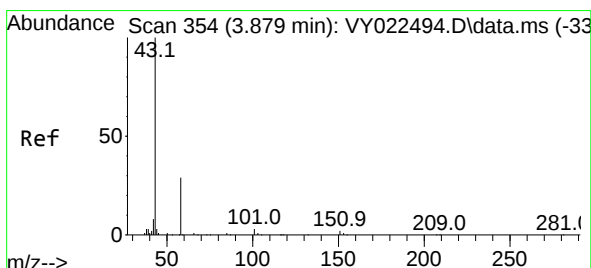
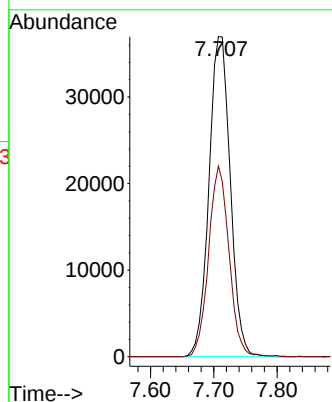
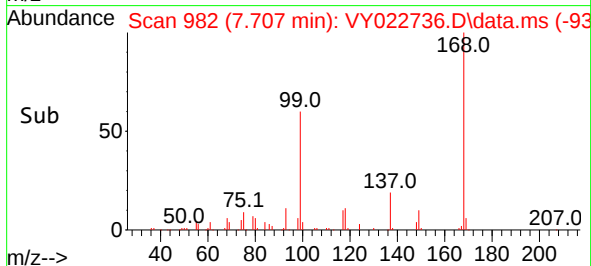
Instrument :
MSVOA_Y
ClientSampleId :
LINDEN-SAA



Tgt Ion:168 Resp: 8668
Ion Ratio Lower Upper
168 100
99 59.6 44.3 66.5

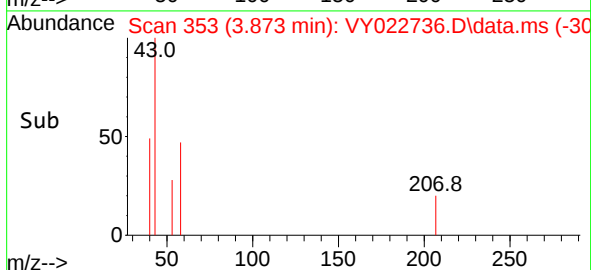
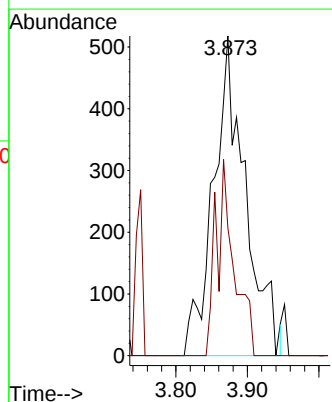
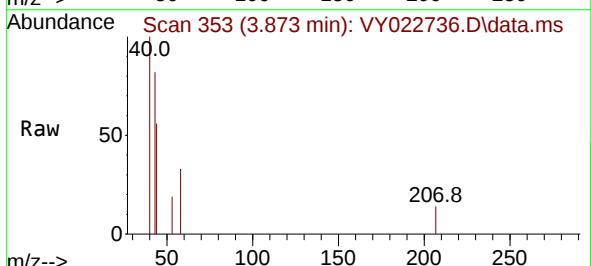
Manual Integrations
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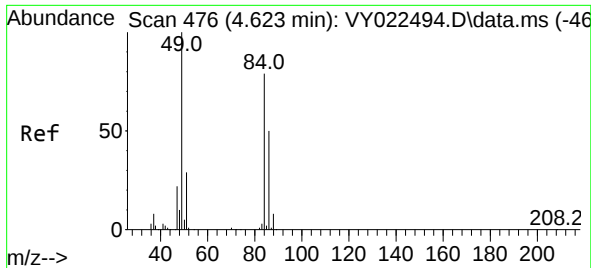
Reviewed By :Semsettin Yesilyurt 06/21/2025
Supervised By :Mahesh Dadoda 06/21/2025



#16
Acetone
Concen: 8.162 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022736.D
Acq: 18 Jun 2025 13:29

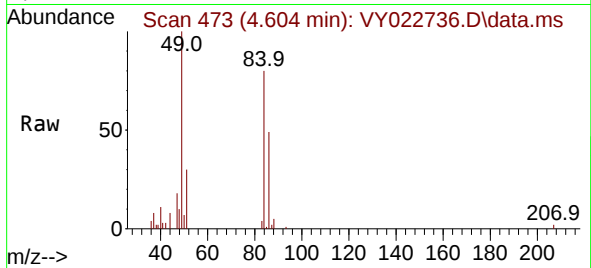
Tgt Ion: 43 Resp: 1607
Ion Ratio Lower Upper
43 100
58 40.0 24.0 36.0#





#20
Methylene Chloride
Concen: 10.182 ug/l
RT: 4.604 min Scan# 41
Delta R.T. -0.018 min
Lab File: VY022736.D
Acq: 18 Jun 2025 13:29

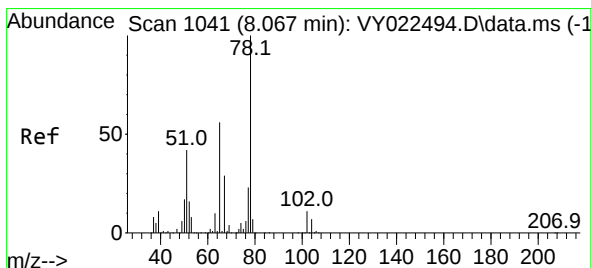
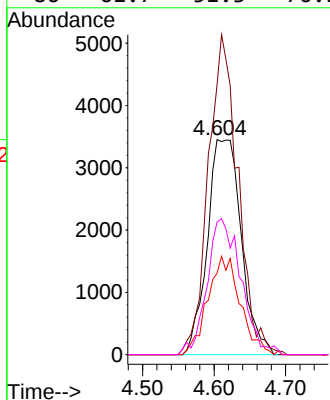
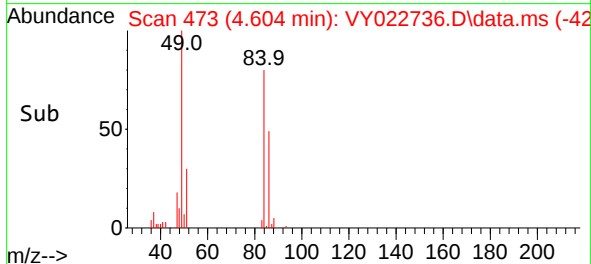
Instrument :
MSVOA_Y
ClientSampleId :
LINDEN-SAA



Tgt Ion: 84 Resp: 1138
Ion Ratio Lower Upper
84 100
49 125.7 101.9 152.9
51 37.9 29.8 44.8
86 61.7 51.3 76.9

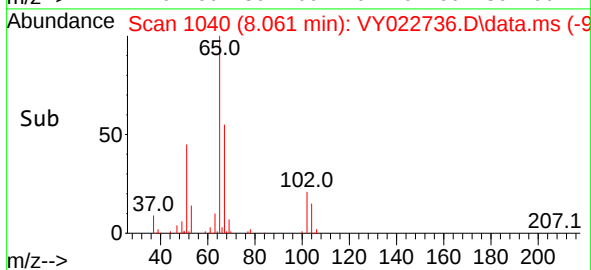
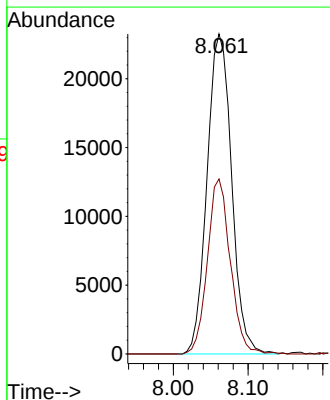
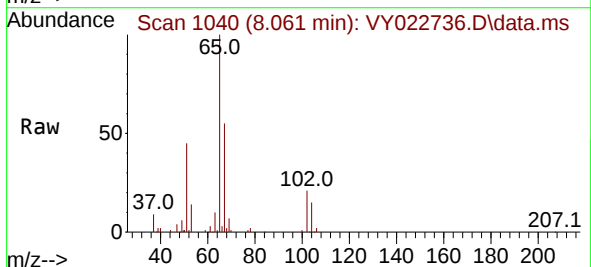
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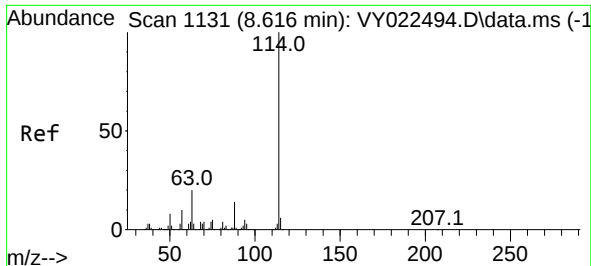
Reviewed By :Semsettin Yesilyurt 06/21/2025
Supervised By :Mahesh Dadoda 06/21/2025



#33
1,2-Dichloroethane-d4
Concen: 54.826 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022736.D
Acq: 18 Jun 2025 13:29

Tgt Ion: 65 Resp: 53154
Ion Ratio Lower Upper
65 100
67 51.1 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY022736.D

Acq: 18 Jun 2025 13:29

Instrument :

MSVOA_Y

ClientSampleId :

LINDEN-SAA

Tgt Ion:114 Resp: 16312

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.8

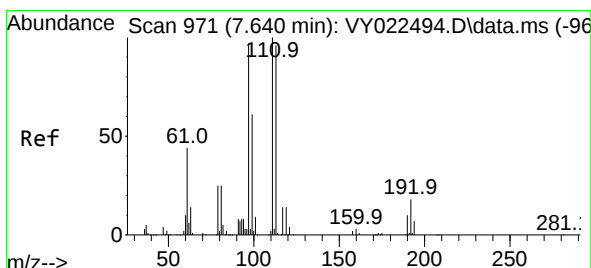
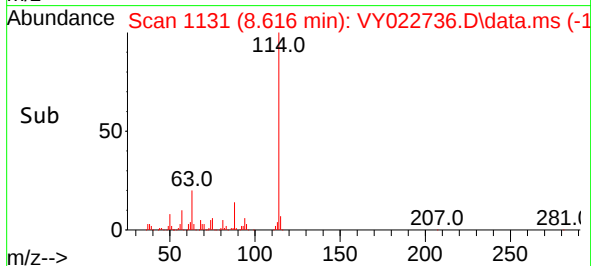
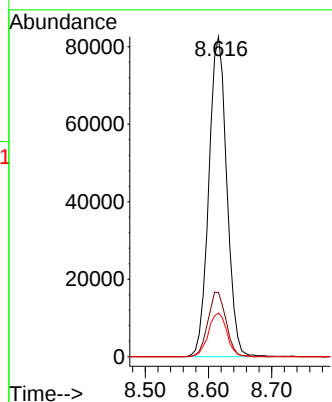
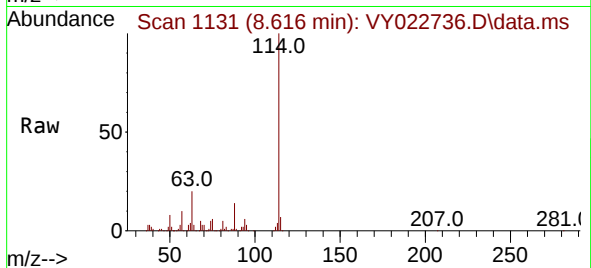
88 13.6 0.0 27.8

Manual Integrations

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Supervised By :Mahesh Dadoda 06/21/2025



#35

Dibromofluoromethane

Concen: 53.713 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.006 min

Lab File: VY022736.D

Acq: 18 Jun 2025 13:29

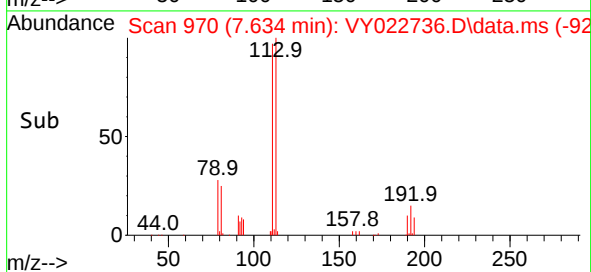
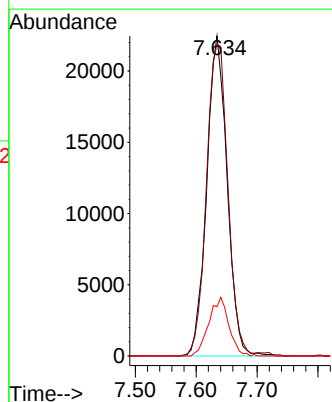
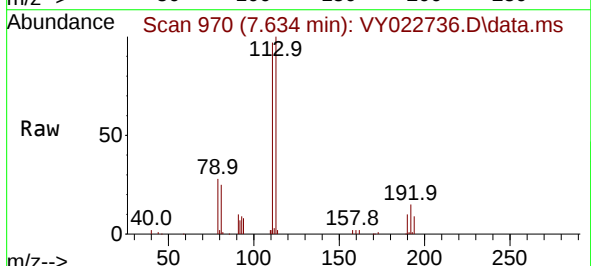
Tgt Ion:113 Resp: 52299

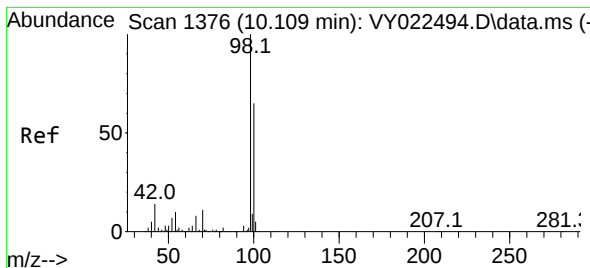
Ion Ratio Lower Upper

113 100

111 102.2 81.1 121.7

192 18.0 14.2 21.2





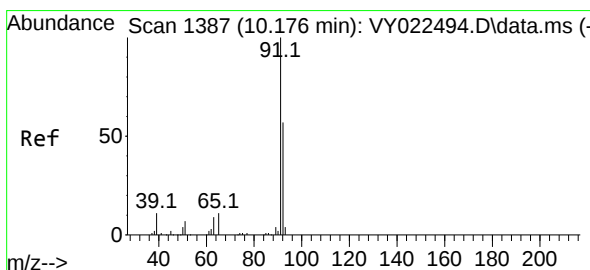
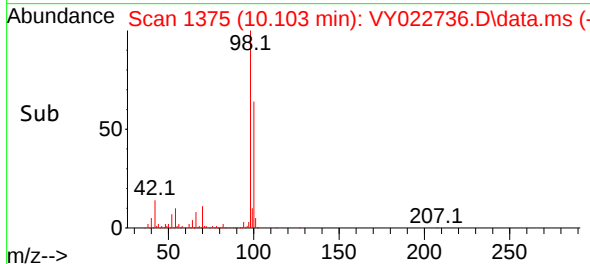
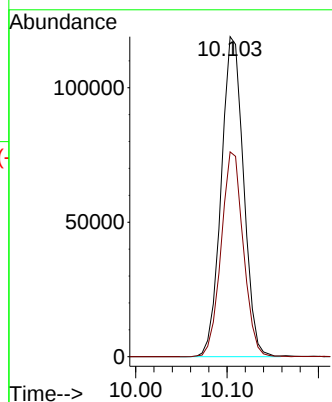
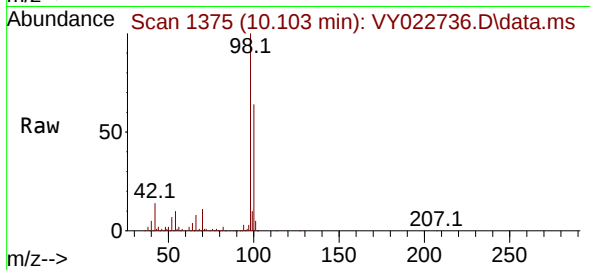
#50
Toluene-d8
Concen: 51.465 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022736.D
Acq: 18 Jun 2025 13:29

Instrument :
MSVOA_Y
ClientSampleId :
LINDEN-SAA

Tgt Ion: 98 Resp: 202470
Ion Ratio Lower Upper
98 100
100 63.4 51.4 77.0

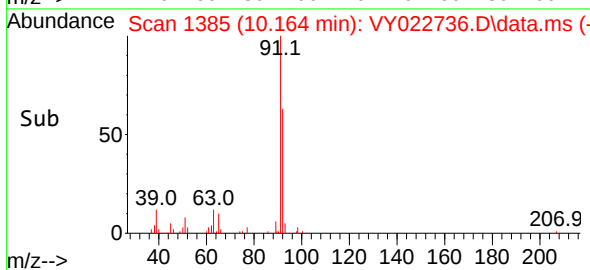
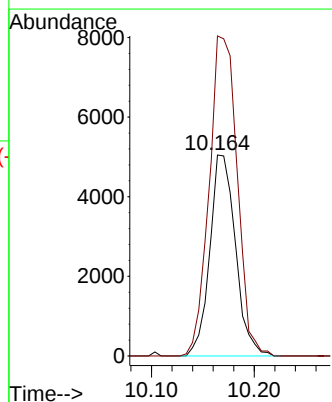
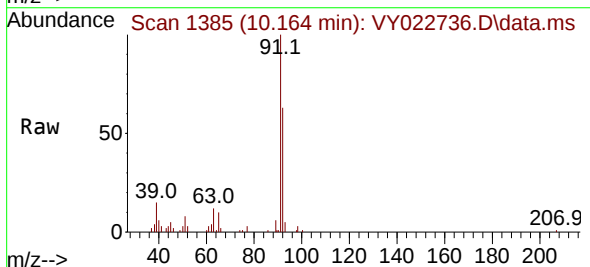
Manual Integrations
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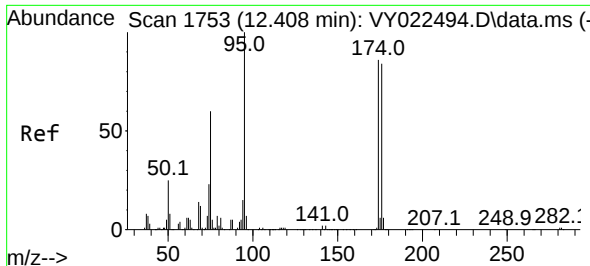
Reviewed By :Semsettin Yesilyurt 06/21/2025
Supervised By :Mahesh Dadoda 06/21/2025



#52
Toluene
Concen: 2.983 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. -0.012 min
Lab File: VY022736.D
Acq: 18 Jun 2025 13:29

Tgt Ion: 92 Resp: 8749
Ion Ratio Lower Upper
92 100
91 174.1 139.0 208.4





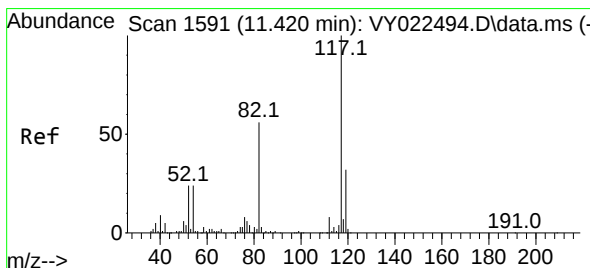
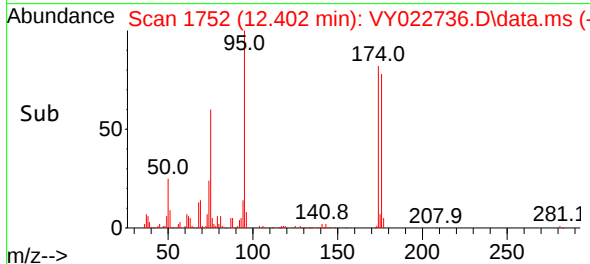
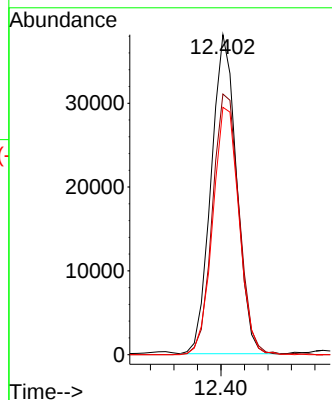
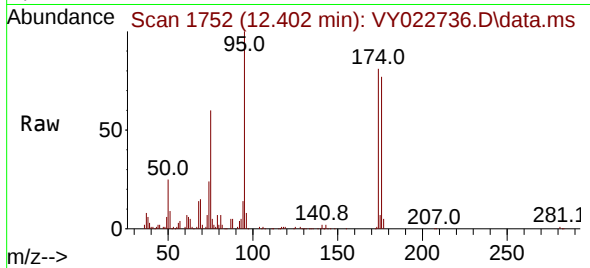
#62
4-Bromofluorobenzene
Concen: 48.930 ug/l
RT: 12.402 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY022736.D
Acq: 18 Jun 2025 13:29

Instrument :
MSVOA_Y
ClientSampleId :
LINDEN-SAA

Tgt Ion: 95 Resp: 57350
Ion Ratio Lower Upper
95 100
174 85.3 0.0 170.0
176 80.2 0.0 166.2

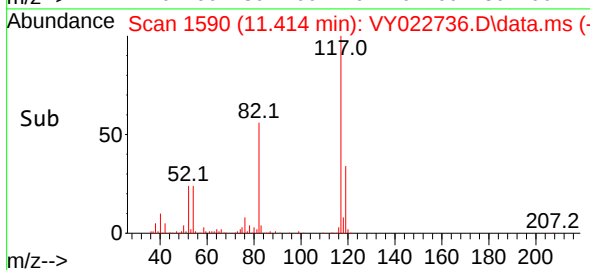
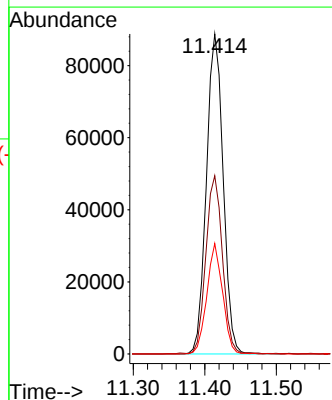
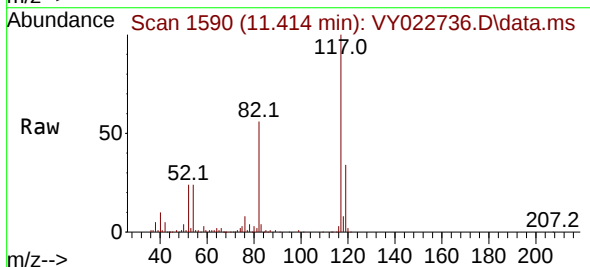
Manual Integrations
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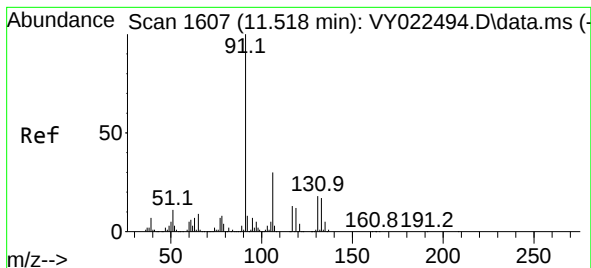
Reviewed By :Semsettin Yesilyurt 06/21/2025
Supervised By :Mahesh Dadoda 06/21/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022736.D
Acq: 18 Jun 2025 13:29

Tgt Ion:117 Resp: 144569
Ion Ratio Lower Upper
117 100
82 55.6 44.6 66.8
119 34.5 25.4 38.0





#67

Ethyl Benzene

Concen: 7.610 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. 0.000 min

Lab File: VY022736.D

Acq: 18 Jun 2025 13:29

Instrument :

MSVOA_Y

ClientSampleId :

LINDEN-SAA

Tgt Ion: 91 Resp: 4515

Ion Ratio Lower Upper

91 100

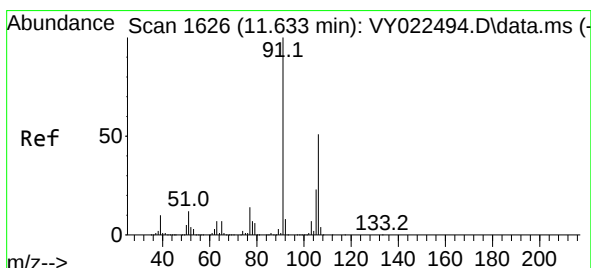
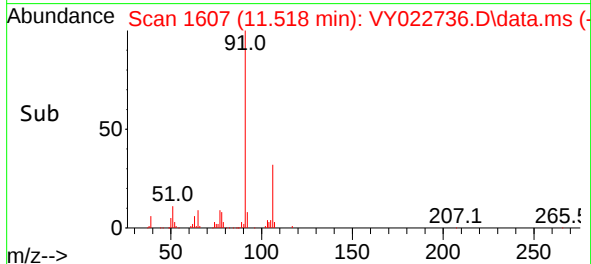
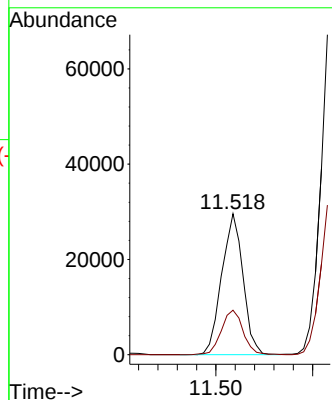
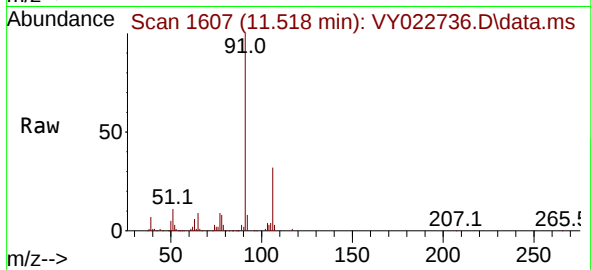
106 31.6 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/21/2025

Supervised By :Mahesh Dadoda 06/21/2025



#68

m/p-Xylenes

Concen: 30.961 ug/l

RT: 11.621 min Scan# 1624

Delta R.T. -0.012 min

Lab File: VY022736.D

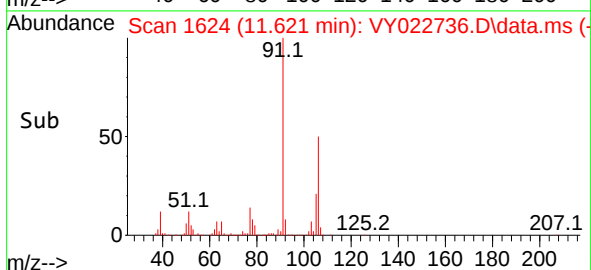
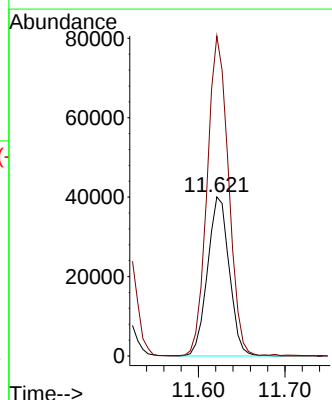
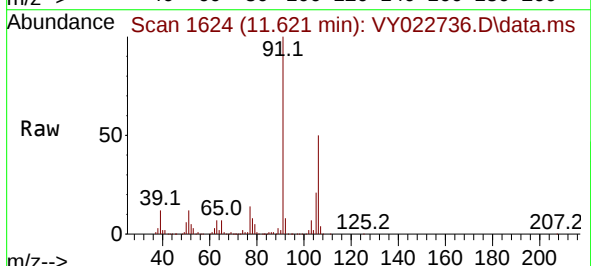
Acq: 18 Jun 2025 13:29

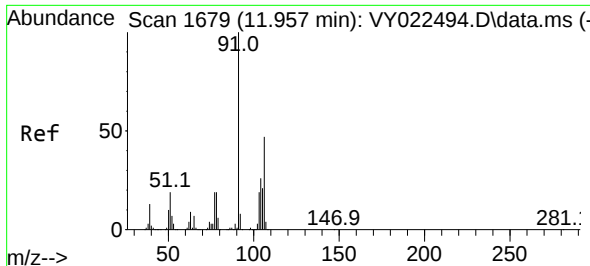
Tgt Ion:106 Resp: 69644

Ion Ratio Lower Upper

106 100

91 198.0 159.4 239.0





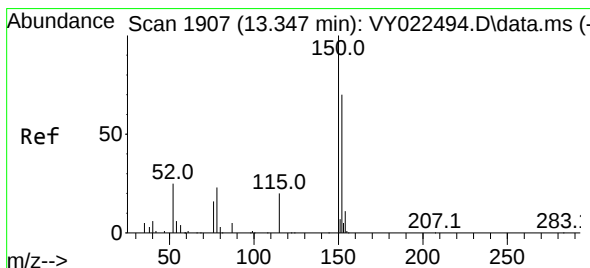
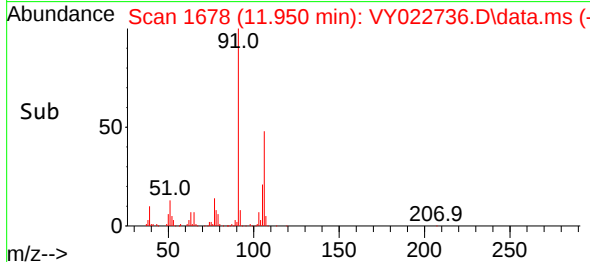
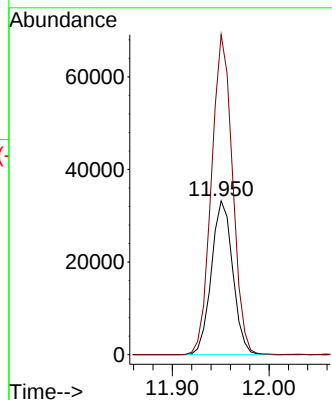
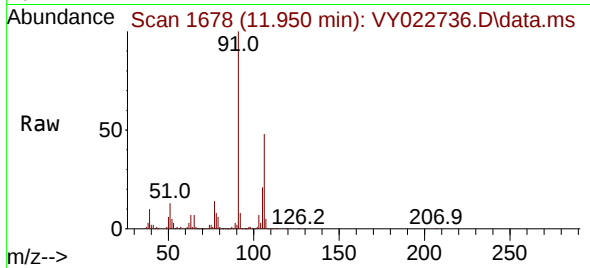
#69
o-Xylene
Concen: 24.090 ug/l
RT: 11.950 min Scan# 1190
Delta R.T. -0.006 min
Lab File: VY022736.D
Acq: 18 Jun 2025 13:29

Instrument :
MSVOA_Y
ClientSampleId :
LINDEN-SAA

Tgt Ion:106 Resp: 50800
Ion Ratio Lower Upper
106 100
91 205.8 105.8 317.3

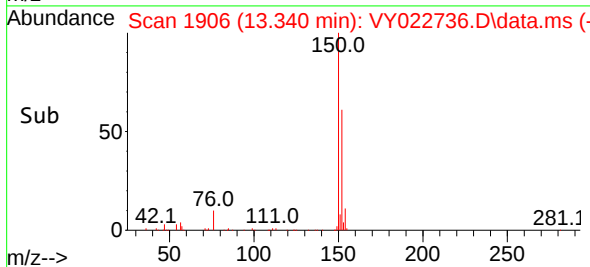
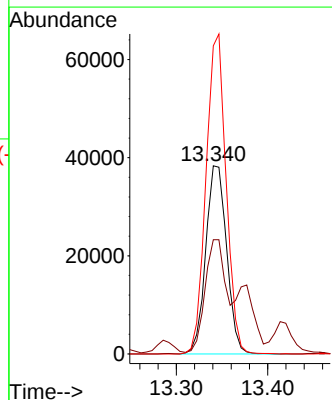
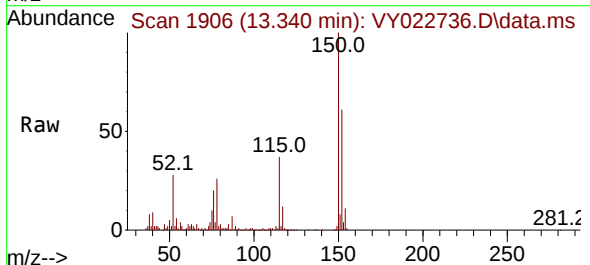
Manual Integrations
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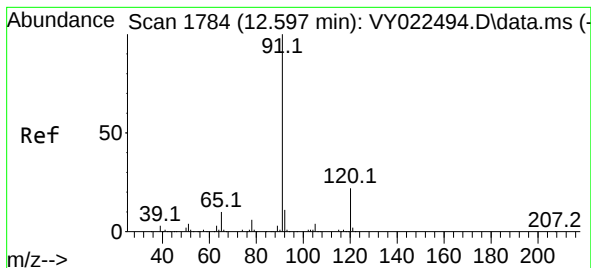
Reviewed By :Semsettin Yesilyurt 06/21/2025
Supervised By :Mahesh Dadoda 06/21/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VY022736.D
Acq: 18 Jun 2025 13:29

Tgt Ion:152 Resp: 60918
Ion Ratio Lower Upper
152 100
115 59.0 28.9 86.7
150 163.2 0.0 349.6





#78

n-propylbenzene

Concen: 3.463 ug/l

RT: 12.591 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022736.D

Acq: 18 Jun 2025 13:29

Instrument :

MSVOA_Y

ClientSampleId :

LINDEN-SAA

Tgt Ion: 91 Resp: 2115

Ion Ratio Lower Upper

91 100

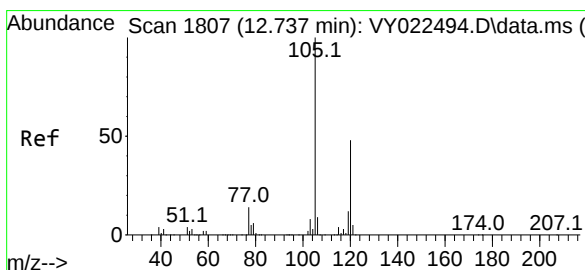
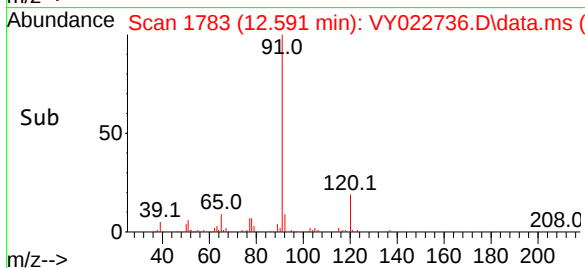
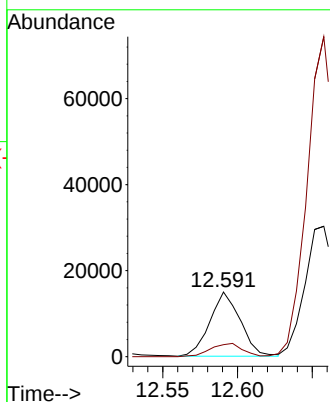
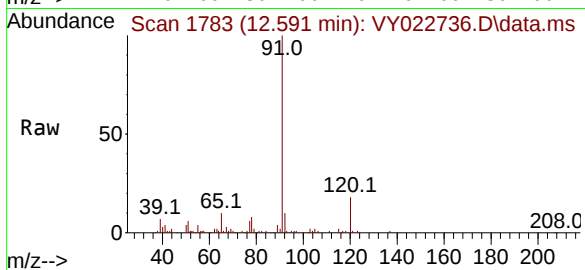
120 0.0 10.8 32.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/21/2025

Supervised By :Mahesh Dadoda 06/21/2025



#80

1,3,5-Trimethylbenzene

Concen: 187.890 ug/l

RT: 12.731 min Scan# 1806

Delta R.T. -0.006 min

Lab File: VY022736.D

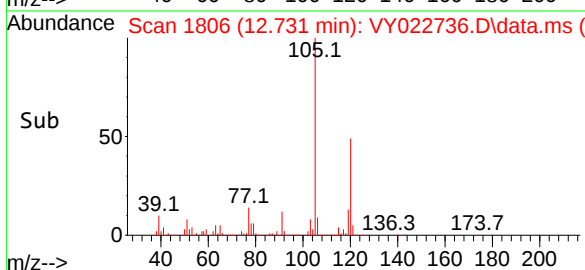
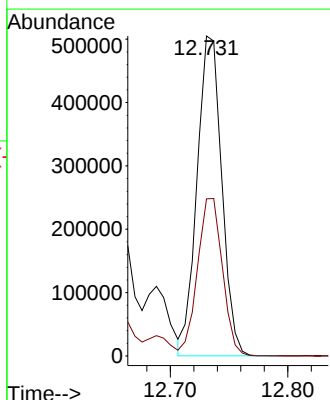
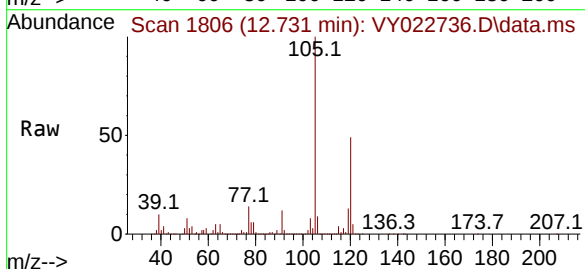
Acq: 18 Jun 2025 13:29

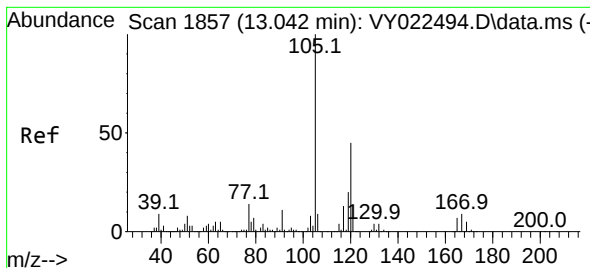
Tgt Ion:105 Resp: 737753

Ion Ratio Lower Upper

105 100

120 49.8 24.1 72.4





#84

1,2,4-Trimethylbenzene

Concen: 386.677 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. 0.000 min

Lab File: VY022736.D

Acq: 18 Jun 2025 13:29

Instrument :

MSVOA_Y

ClientSampleId :

LINDEN-SAA

Tgt Ion:105 Resp: 151854

Ion Ratio Lower Upper

105 100

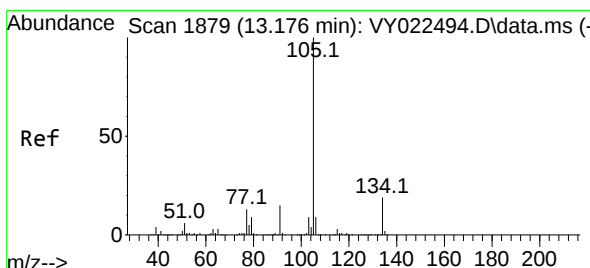
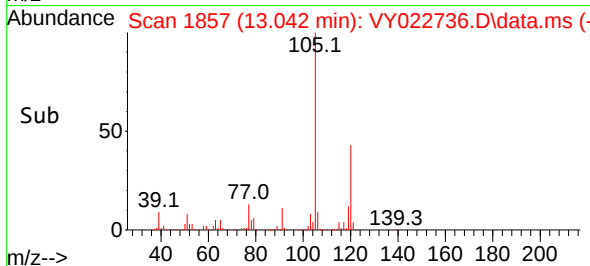
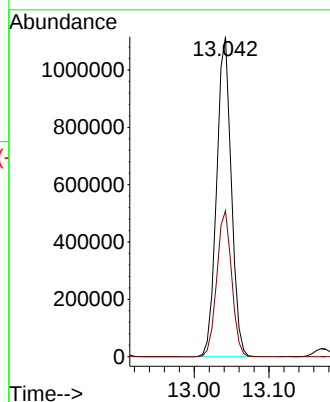
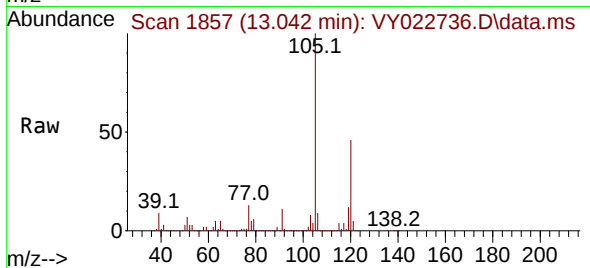
120 46.2 22.7 68.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/21/2025

Supervised By :Mahesh Dadoda 06/21/2025



#85

sec-Butylbenzene

Concen: 7.933 ug/l m

RT: 13.170 min Scan# 1878

Delta R.T. -0.006 min

Lab File: VY022736.D

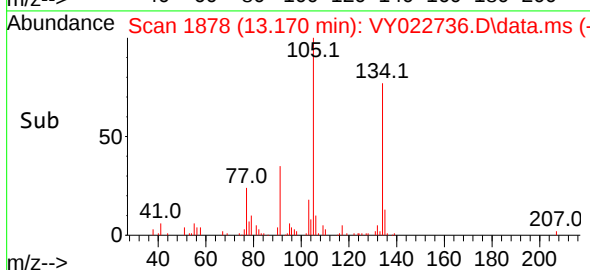
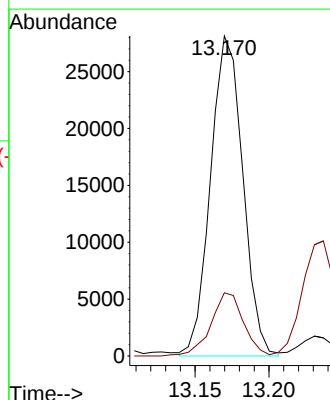
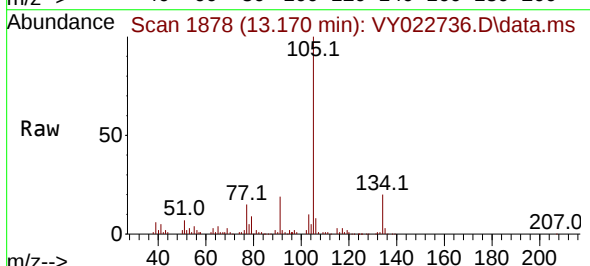
Acq: 18 Jun 2025 13:29

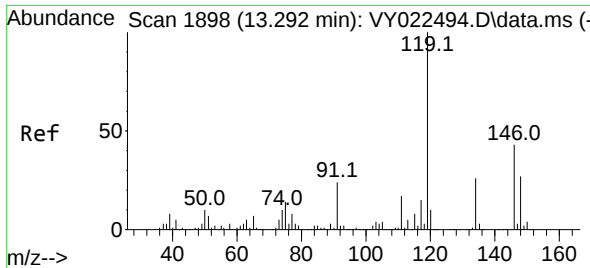
Tgt Ion:105 Resp: 42817

Ion Ratio Lower Upper

105 100

134 0.0 9.7 28.9#





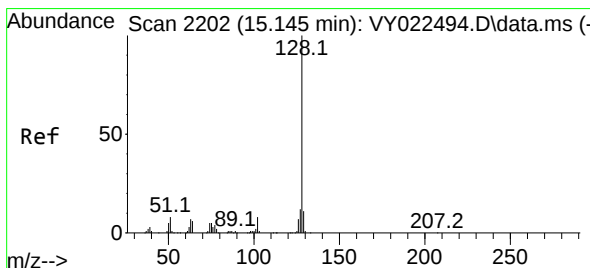
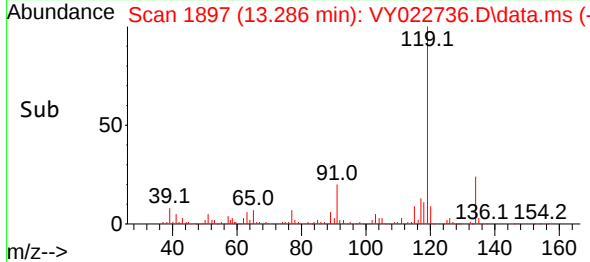
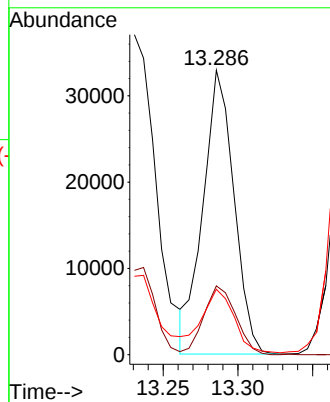
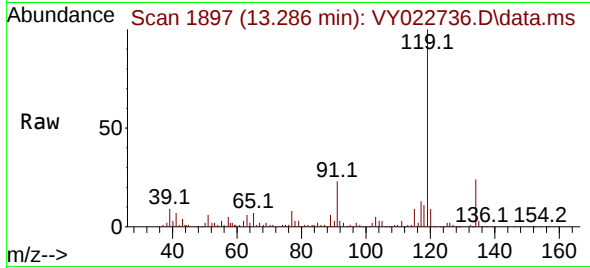
#86
p-Isopropyltoluene
Concen: 10.653 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. -0.006 min
Lab File: VY022736.D
Acq: 18 Jun 2025 13:29

Instrument :
MSVOA_Y
ClientSampleId :
LINDEN-SAA

Tgt Ion:119 Resp: 4739
Ion Ratio Lower Upper
119 100
134 25.0 13.1 39.1
91 23.5 11.6 34.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/21/2025
Supervised By :Mahesh Dadoda 06/21/2025



#95
Naphthalene
Concen: 4116.075 ug/l
RT: 15.139 min Scan# 2201
Delta R.T. -0.006 min
Lab File: VY022736.D
Acq: 18 Jun 2025 13:29

Tgt Ion:128 Resp: 7821243
Ion Ratio Lower Upper
128 100
127 13.9 10.4 15.6
129 11.6 8.9 13.3

