

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022792.D
 Acq On : 24 Jun 2025 13:09
 Operator : SY/MD
 Sample : Q2355-03
 Misc : 3.75g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 20071

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 06/25/2025
 Supervised By :Semsettin Yesilyurt 06/25/2025

Quant Time: Jun 25 04:27:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.701	168	239668	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.609	114	362028	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	87473	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	16310	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	111751	41.777	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	83.560%		
35) Dibromofluoromethane	7.634	113	119284	54.179	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	108.360%		
50) Toluene-d8	10.103	98	237960	27.237	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	54.480%#		
62) 4-Bromofluorobenzene	12.401	95	21247	7.565	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	15.140%#		
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.854	59	62451	351.116	ug/l #	89
16) Acetone	3.866	43	56107	110.975	ug/l	97
17) Carbon Disulfide	4.098	76	17641	2.251	ug/l	98
39) Methylcyclohexane	9.103	83	11372	2.633	ug/l	87
40) Benzene	8.079	78	20596	2.007	ug/l #	90
51) 4-Methyl-2-Pentanone	9.999	43	18502	12.165	ug/l	98
52) Toluene	10.170	92	46894	7.244	ug/l	97
59) 2-Hexanone	10.762	43	14260	13.790	ug/l	85
67) Ethyl Benzene	11.511	91	19529	5.783	ug/l	94
68) m/p-Xylenes	11.621	106	14859	11.382	ug/l	91
69) o-Xylene	11.950	106	6125	4.979	ug/l	96
70) Styrene	11.969	104	5133	2.491	ug/l #	82
78) n-propylbenzene	12.590	91	6574	4.514	ug/l	98
84) 1,2,4-Trimethylbenzene	13.036	105	55211	56.632	ug/l	97
85) sec-Butylbenzene	13.170	105	8844	6.845	ug/l #	70
86) p-Isopropyltoluene	13.285	119	11351	10.557	ug/l	96
89) n-Butylbenzene	13.615	91	24492m	24.216	ug/l	

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

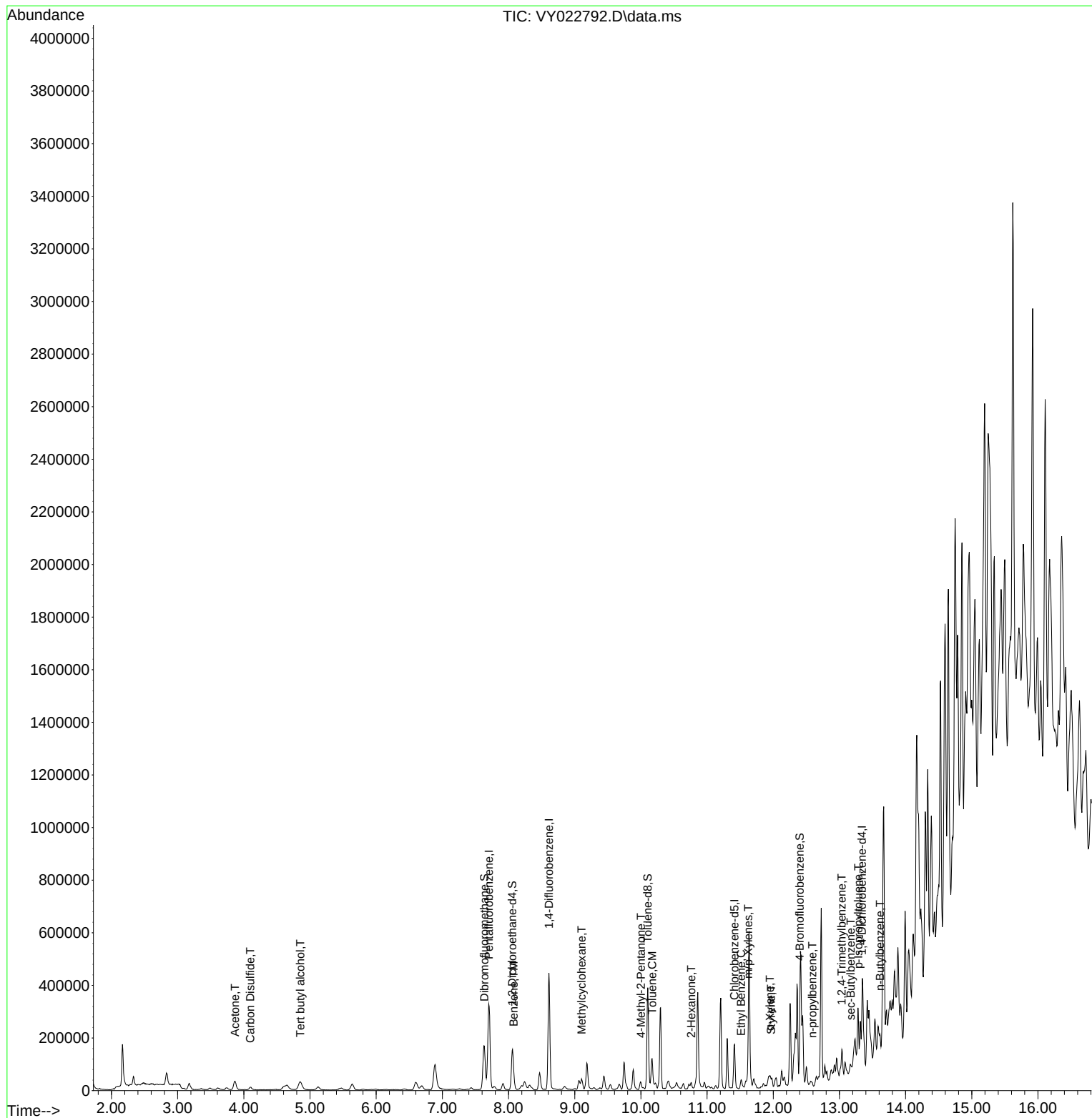
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
Data File : VY022792.D
Acq On : 24 Jun 2025 13:09
Operator : SY/MD
Sample : Q2355-03
Misc : 3.75g/5.0mL/MSVOA_Y/SOIL/A
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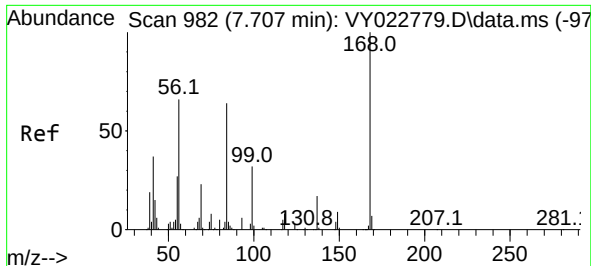
Instrument :
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ClientSampleId :
20071

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Supervised By :Semsettin Yesilyurt 06/25/2025

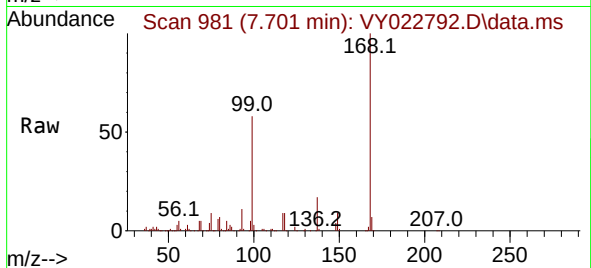
Quant Time: Jun 25 04:27:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 24 08:29:52 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.012 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09

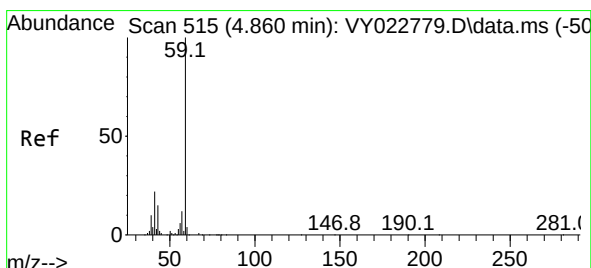
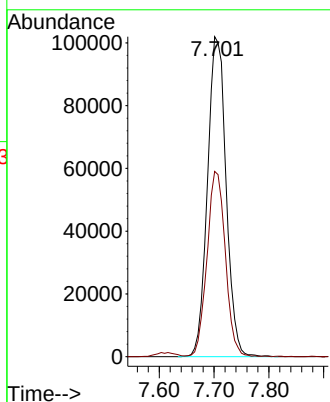
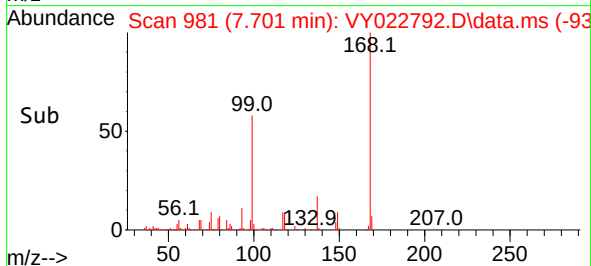
Instrument :
MSVOA_Y
ClientSampleId :
20071



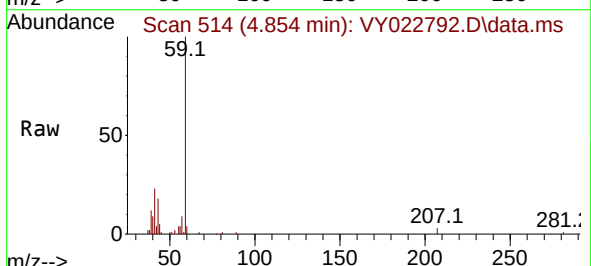
Tgt Ion:168 Resp: 239668
Ion Ratio Lower Upper
168 100
99 57.8 44.3 66.5

Manual Integrations
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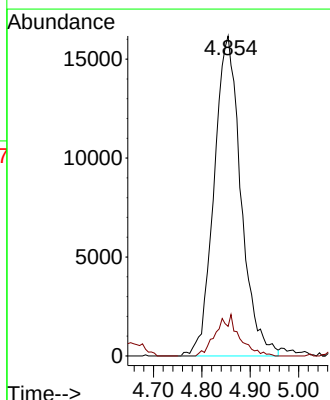
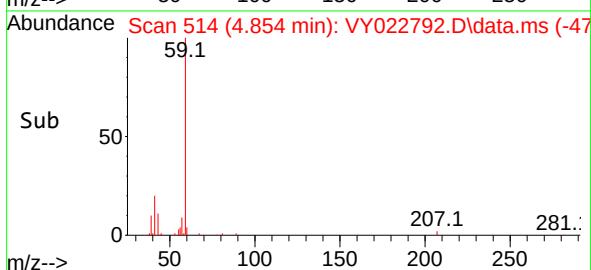
Reviewed By :Mahesh Dadoda 06/25/2025
Supervised By :Semsettin Yesilyurt 06/25/2025

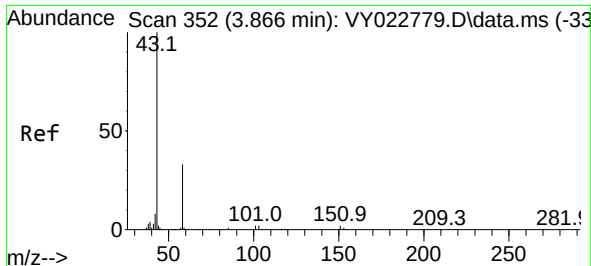


#11
Tert butyl alcohol
Concen: 351.116 ug/l
RT: 4.854 min Scan# 514
Delta R.T. -0.031 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09



Tgt Ion: 59 Resp: 62451
Ion Ratio Lower Upper
59 100
57 6.1 8.0 12.0#





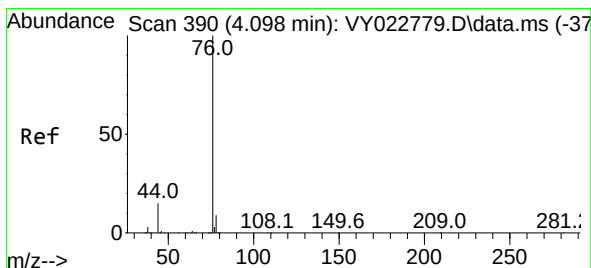
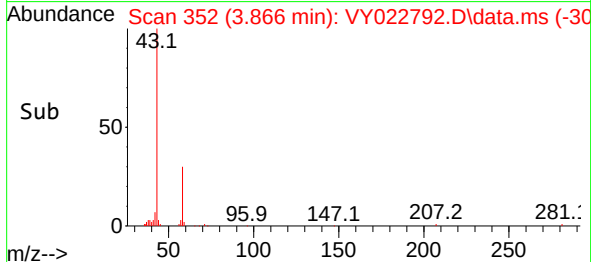
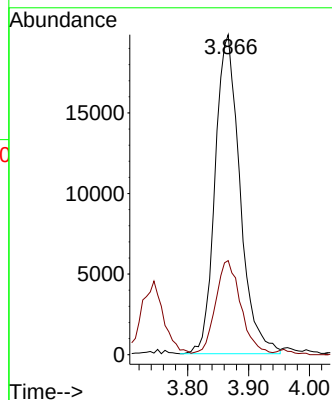
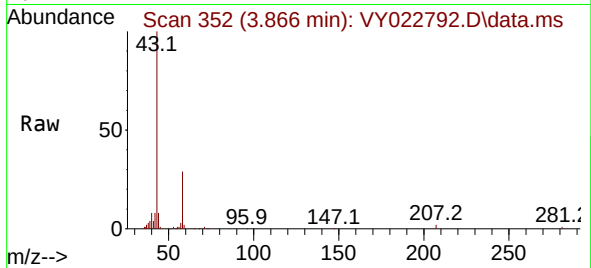
#16
Acetone
Concen: 110.975 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.012 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09

Instrument :
MSVOA_Y
ClientSampleId :
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Tgt Ion: 43 Resp: 5610
Ion Ratio Lower Upper
43 100
58 28.1 24.0 36.0

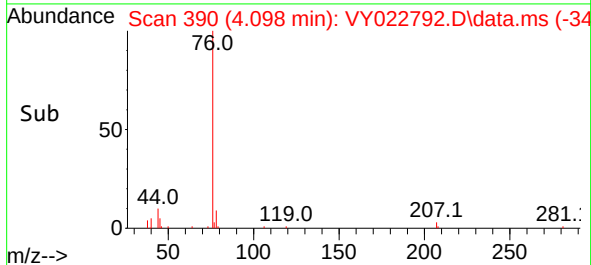
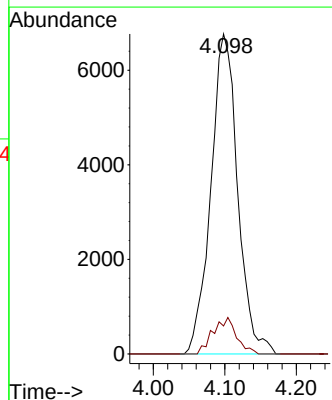
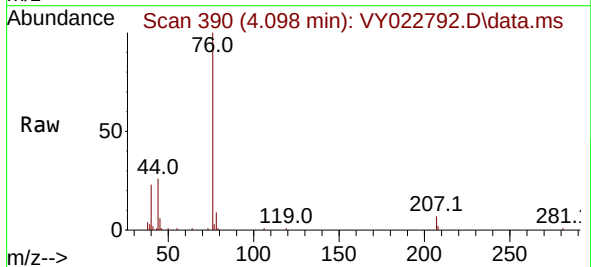
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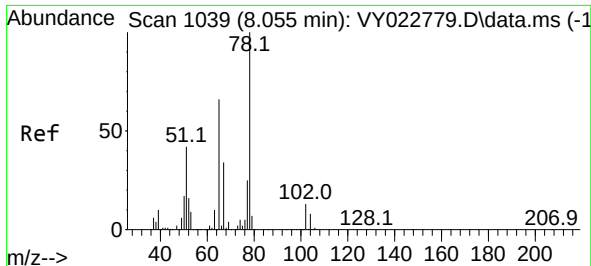
Reviewed By :Mahesh Dadoda 06/25/2025
Supervised By :Semsettin Yesilyurt 06/25/2025



#17
Carbon Disulfide
Concen: 2.251 ug/l
RT: 4.098 min Scan# 390
Delta R.T. -0.012 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09

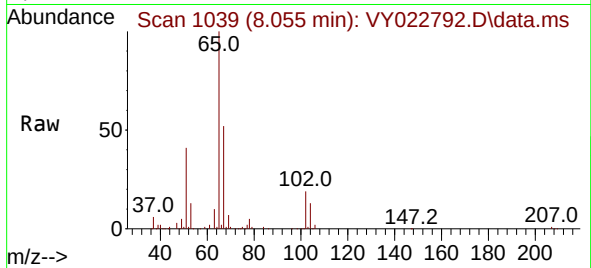
Tgt Ion: 76 Resp: 17641
Ion Ratio Lower Upper
76 100
78 8.7 7.4 11.2





#33
 1,2-Dichloroethane-d4
 Concen: 41.777 ug/l
 RT: 8.055 min Scan# 1039
 Delta R.T. -0.012 min
 Lab File: VY022792.D
 Acq: 24 Jun 2025 13:09

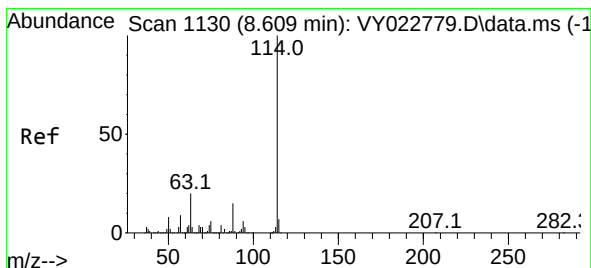
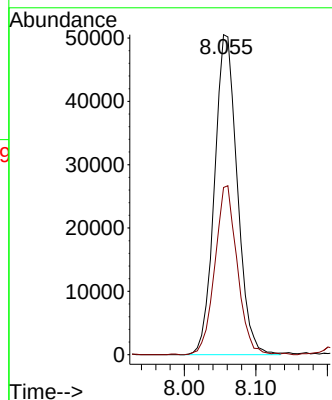
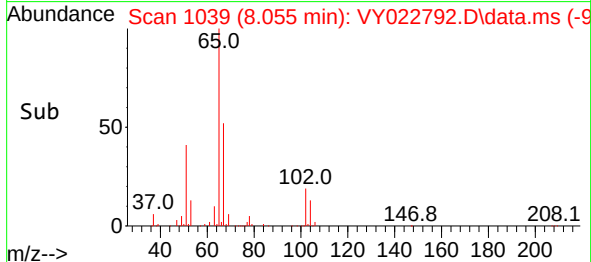
Instrument :
 MSVOA_Y
 ClientSampleId :
 20071



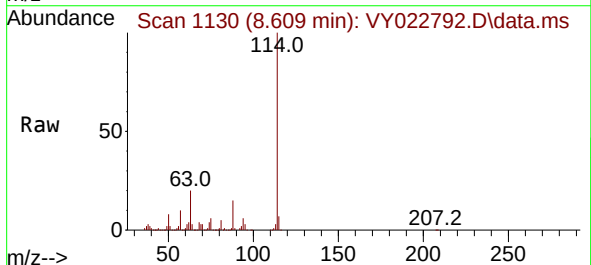
Tgt Ion: 65 Resp: 11175
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 103.4

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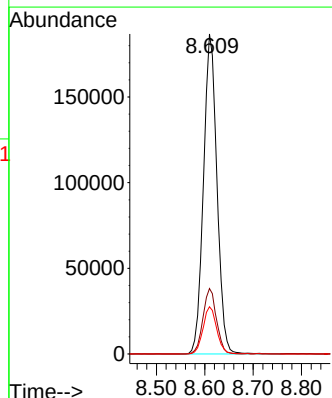
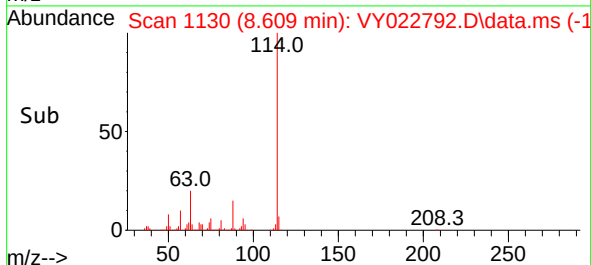
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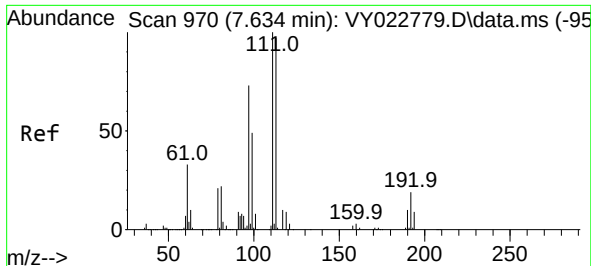


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.609 min Scan# 1130
 Delta R.T. -0.006 min
 Lab File: VY022792.D
 Acq: 24 Jun 2025 13:09



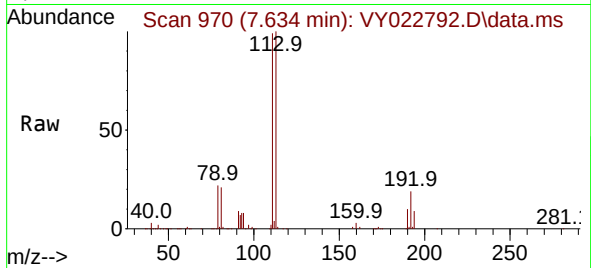
Tgt Ion:114 Resp: 362028
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.8
 88 14.8 0.0 27.8





#35
Dibromofluoromethane
Concen: 54.179 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09

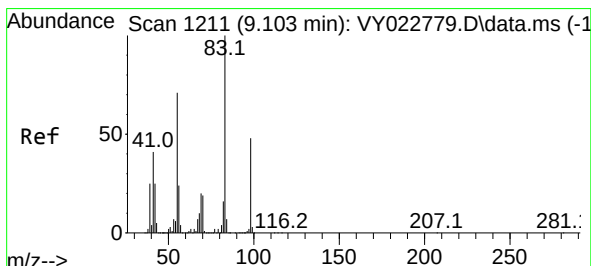
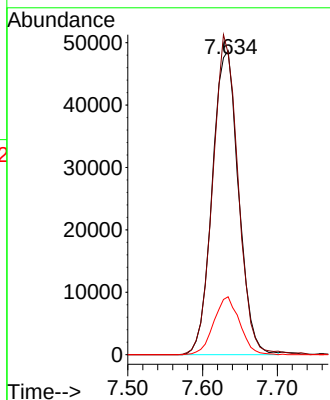
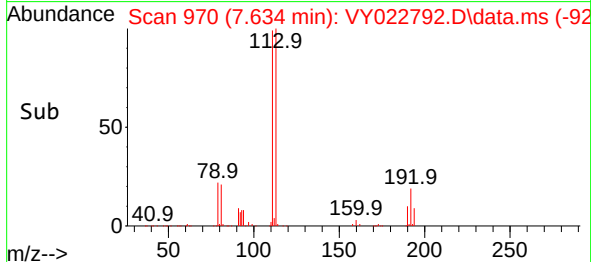
Instrument :
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ClientSampleId :
20071



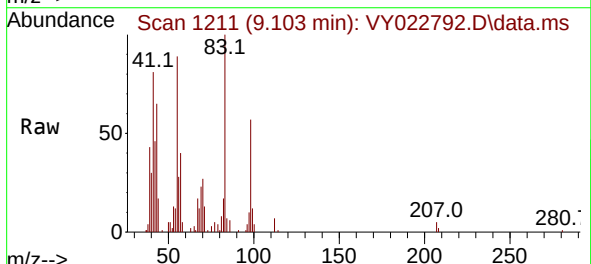
Tgt Ion: 113 Resp: 119284
Ion Ratio Lower Upper
113 100
111 101.4 81.1 121.7
192 18.7 14.2 21.2

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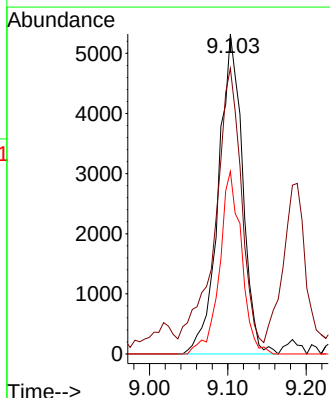
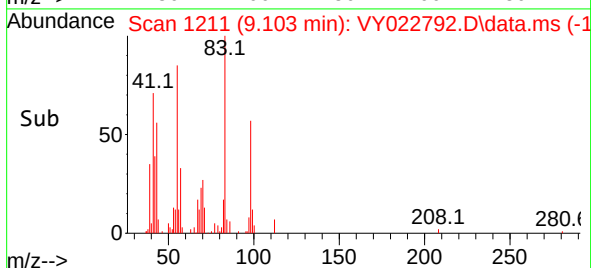
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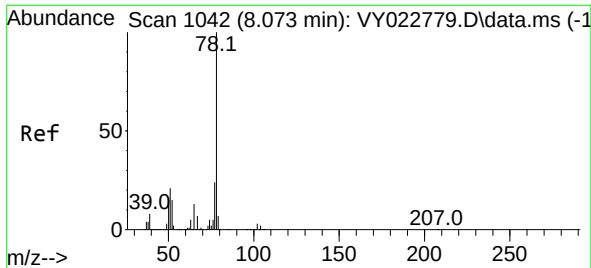


#39
Methylcyclohexane
Concen: 2.633 ug/l
RT: 9.103 min Scan# 1211
Delta R.T. -0.012 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09



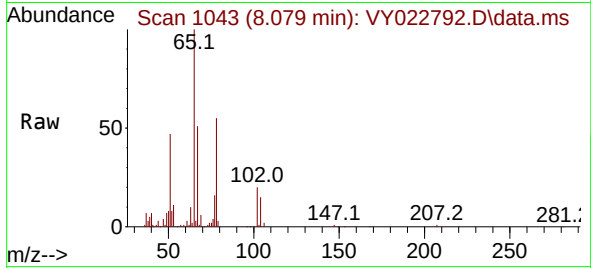
Tgt Ion: 83 Resp: 11372
Ion Ratio Lower Upper
83 100
55 84.5 58.1 87.1
98 57.1 39.0 58.6





#40
Benzene
Concen: 2.007 ug/l
RT: 8.079 min Scan# 1042
Delta R.T. -0.006 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09

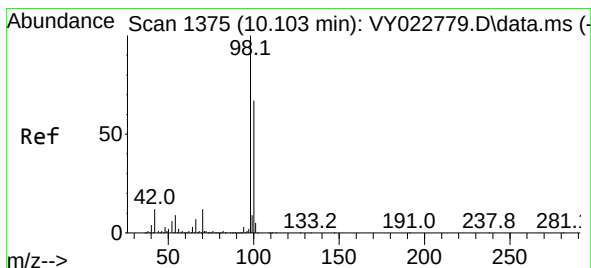
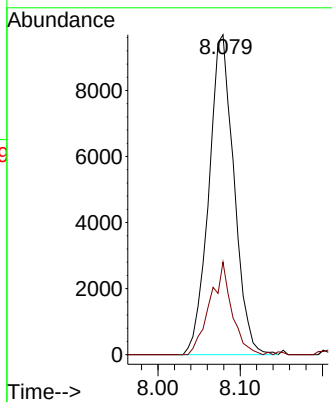
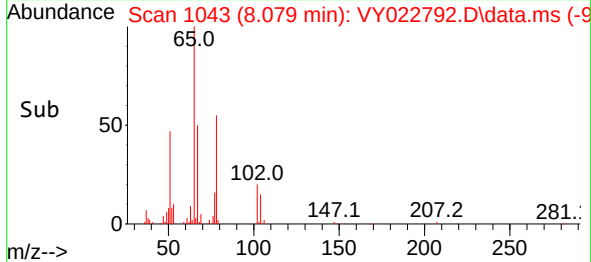
Instrument :
MSVOA_Y
ClientSampleId :
20071



Tgt Ion: 78 Resp: 20590
Ion Ratio Lower Upper
78 100
77 29.0 19.3 28.9

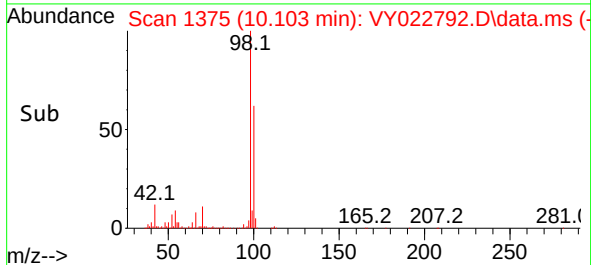
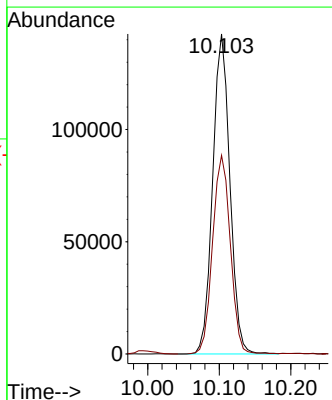
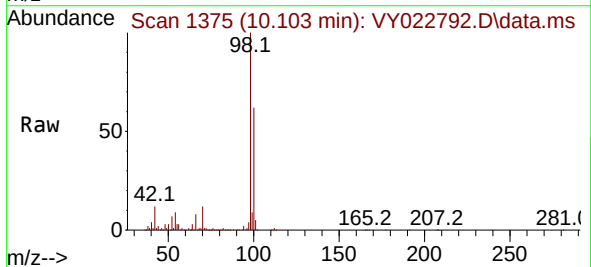
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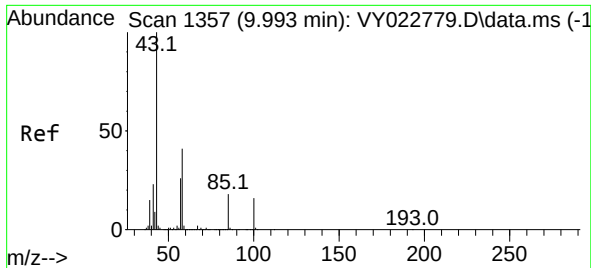
Reviewed By :Mahesh Dadoda 06/25/2025
Supervised By :Semsettin Yesilyurt 06/25/2025



#50
Toluene-d8
Concen: 27.237 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09

Tgt Ion: 98 Resp: 237960
Ion Ratio Lower Upper
98 100
100 64.1 51.4 77.0





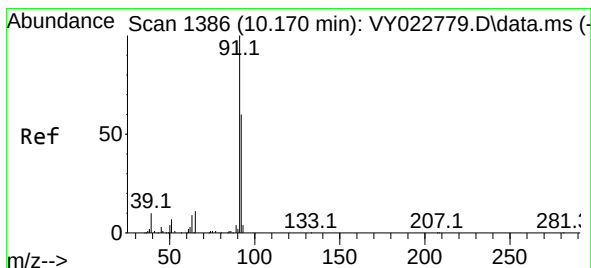
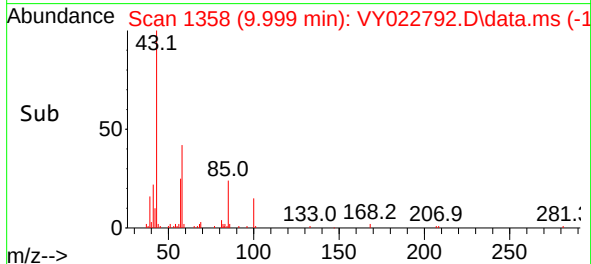
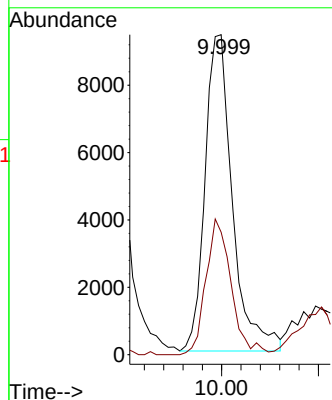
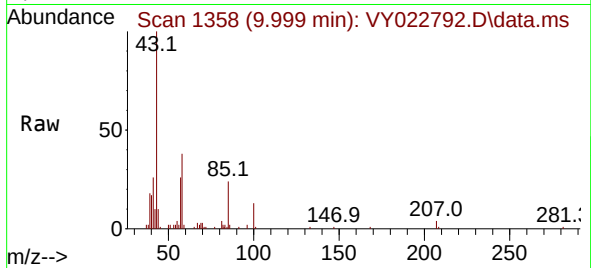
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4-Methyl-2-Pentanone
Concen: 12.165 ug/l
RT: 9.999 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09

Instrument :
MSVOA_Y
ClientSampleId :
20071

Tgt Ion: 43 Resp: 1850
Ion Ratio Lower Upper
43 100
58 39.3 30.4 45.6

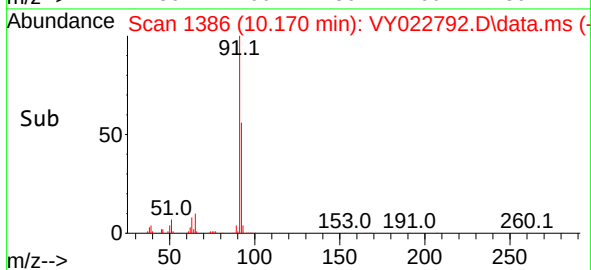
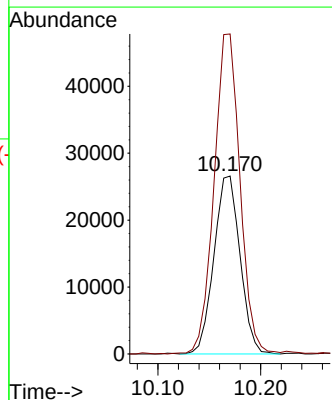
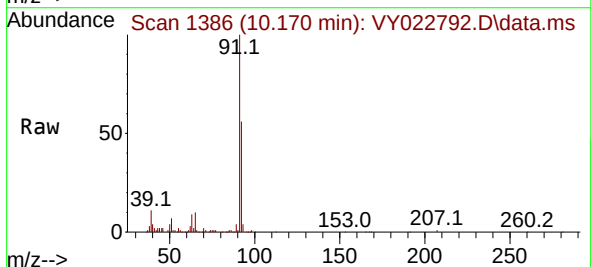
Manual Integrations
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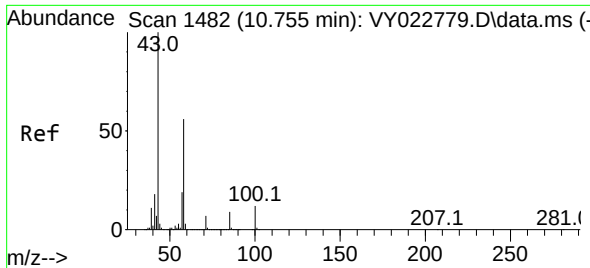
Reviewed By :Mahesh Dadoda 06/25/2025
Supervised By :Semsettin Yesilyurt 06/25/2025



#52
Toluene
Concen: 7.244 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09

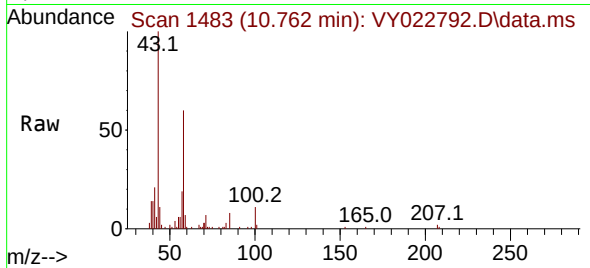
Tgt Ion: 92 Resp: 46894
Ion Ratio Lower Upper
92 100
91 178.5 139.0 208.4





#59
2-Hexanone
Concen: 13.790 ug/l
RT: 10.762 min Scan# 1483
Delta R.T. -0.000 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09

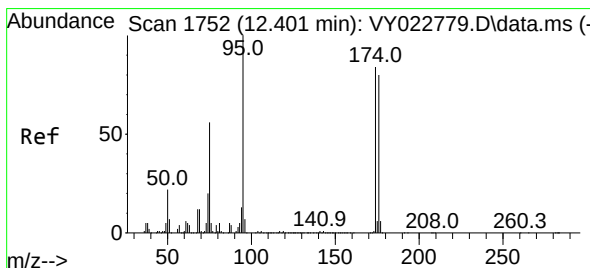
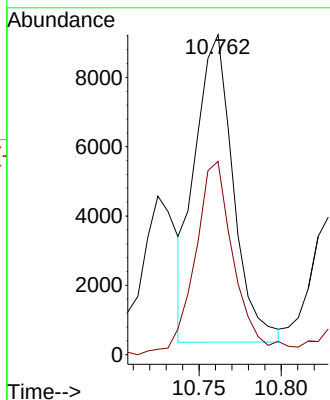
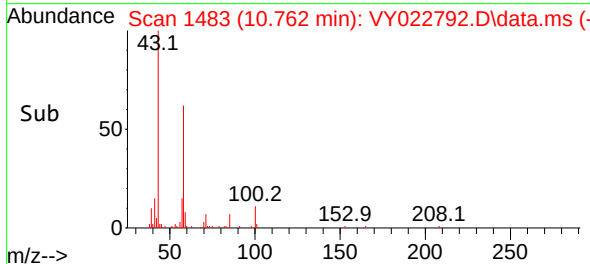
Instrument :
MSVOA_Y
ClientSampleId :
20071



Tgt Ion: 43 Resp: 14260
Ion Ratio Lower Upper
43 100
58 65.3 27.3 81.8

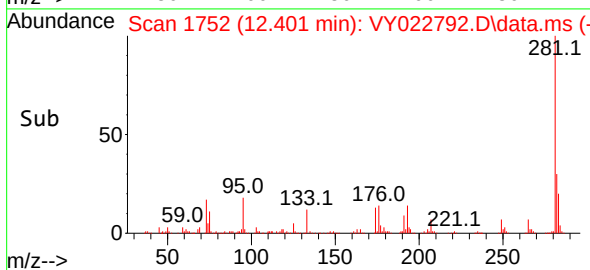
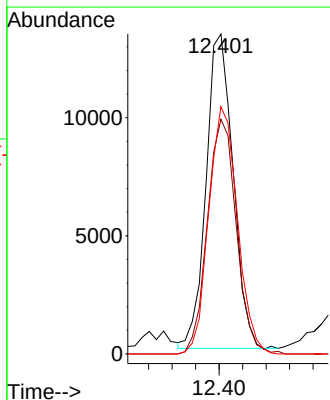
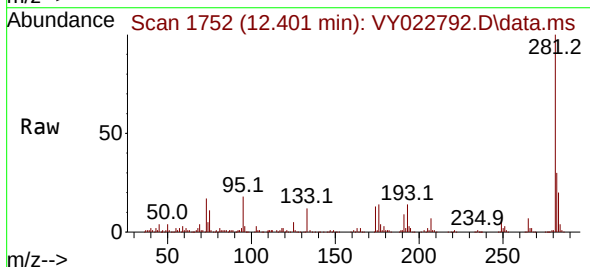
Manual Integrations
APPROVED

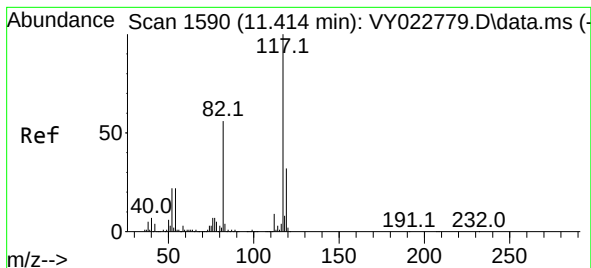
Reviewed By :Mahesh Dadoda 06/25/2025
Supervised By :Semsettin Yesilyurt 06/25/2025



#62
4-Bromofluorobenzene
Concen: 7.565 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09

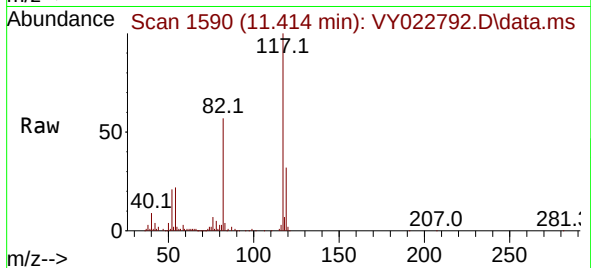
Tgt Ion: 95 Resp: 21247
Ion Ratio Lower Upper
95 100
174 79.9 0.0 170.0
176 83.5 0.0 166.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09

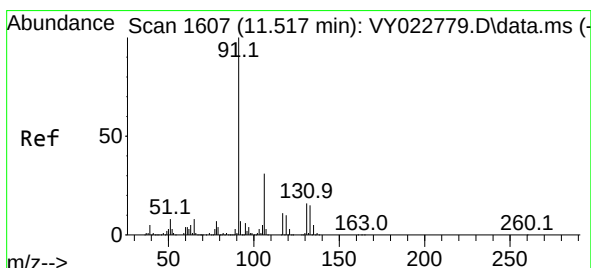
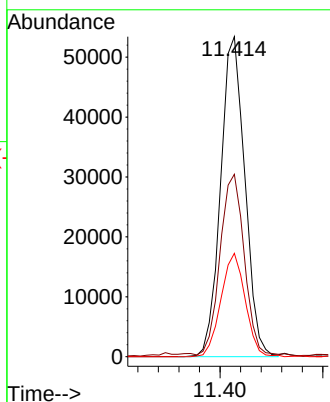
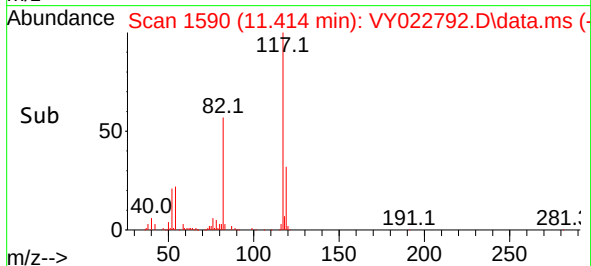
Instrument :
MSVOA_Y
ClientSampleId :
20071



Tgt Ion:117 Resp: 8747
Ion Ratio Lower Upper
117 100
82 56.3 44.6 66.8
119 32.3 25.4 38.0

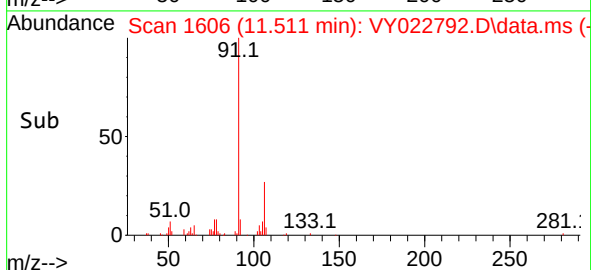
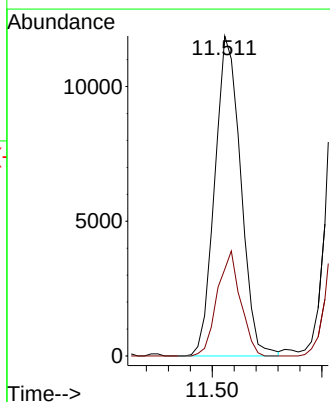
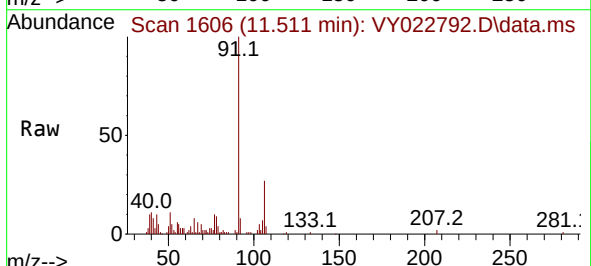
Manual Integrations
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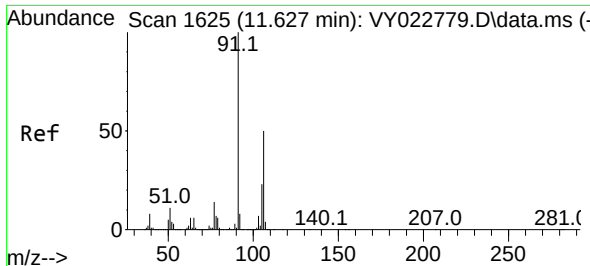
Reviewed By :Mahesh Dadoda 06/25/2025
Supervised By :Semsettin Yesilyurt 06/25/2025



#67
Ethyl Benzene
Concen: 5.783 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.006 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09

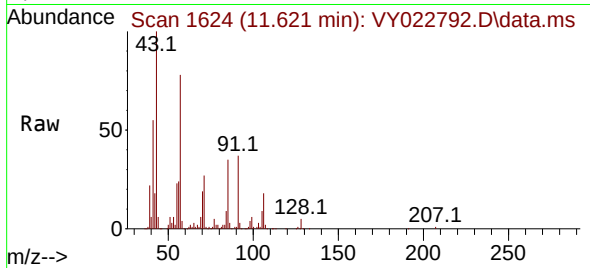
Tgt Ion: 91 Resp: 19529
Ion Ratio Lower Upper
91 100
106 27.1 24.2 36.4





#68
m/p-Xylenes
Concen: 11.382 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.012 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09

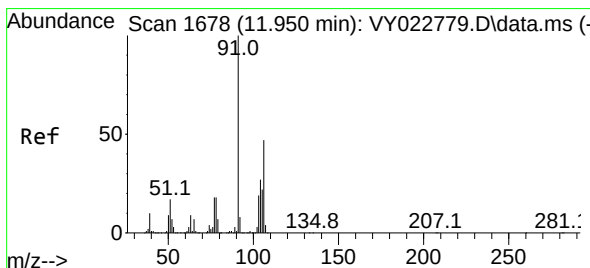
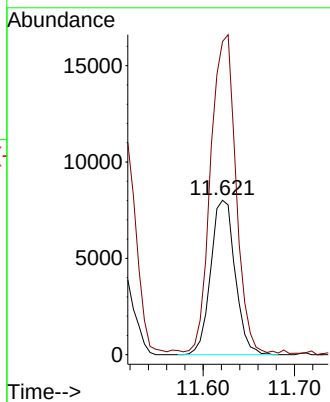
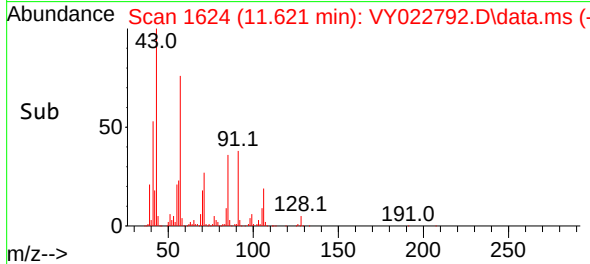
Instrument :
MSVOA_Y
ClientSampleId :
20071



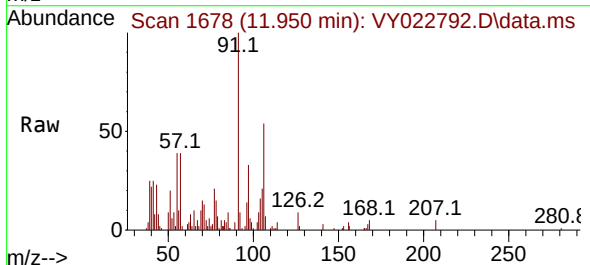
Tgt Ion:106 Resp: 1485
Ion Ratio Lower Upper
106 100
91 213.3 159.4 239.0

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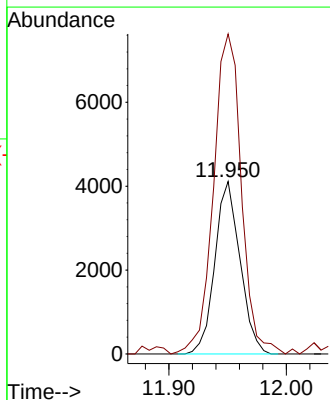
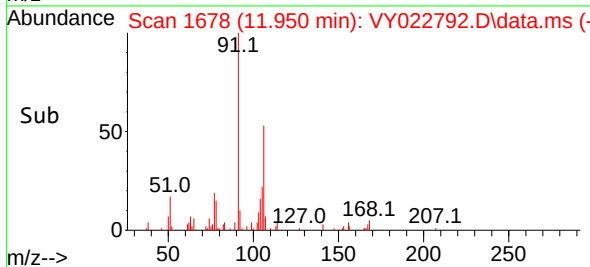
Reviewed By :Mahesh Dadoda 06/25/2025
Supervised By :Semsettin Yesilyurt 06/25/2025

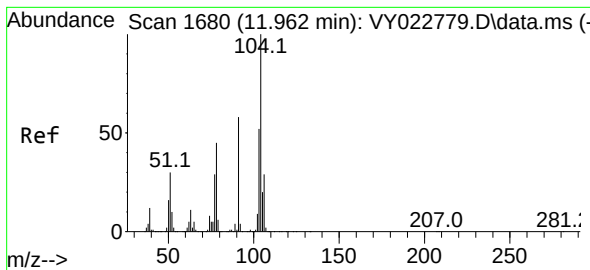


#69
o-Xylene
Concen: 4.979 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY022792.D
Acq: 24 Jun 2025 13:09



Tgt Ion:106 Resp: 6125
Ion Ratio Lower Upper
106 100
91 205.1 105.8 317.3





#70

Styrene

Concen: 2.491 ug/l

RT: 11.969 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY022792.D

Acq: 24 Jun 2025 13:09

Instrument :

MSVOA_Y

ClientSampleId :

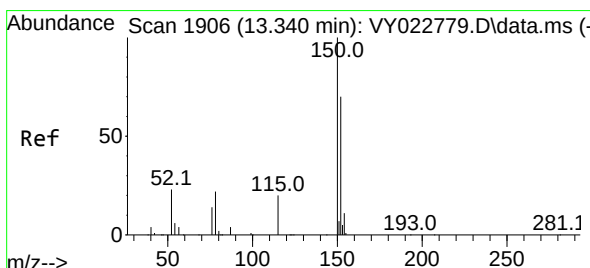
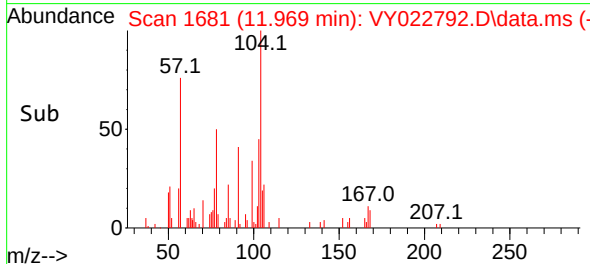
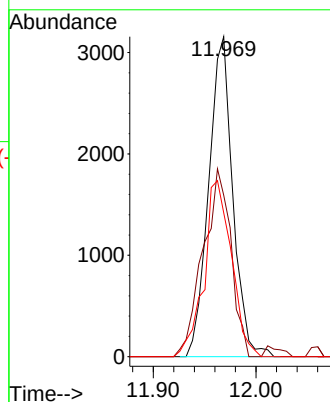
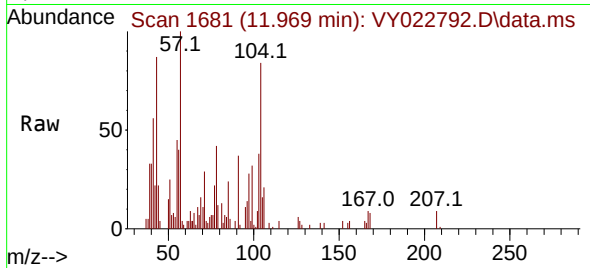
20071

Tgt Ion:104	Resp:	513
Ion Ratio	Lower	Upper
104	100	
78	67.7	39.5 59.3
103	62.6	44.1 66.1

Manual Integrations

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Reviewed By :Mahesh Dadoda 06/25/2025
Supervised By :Semsettin Yesilyurt 06/25/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

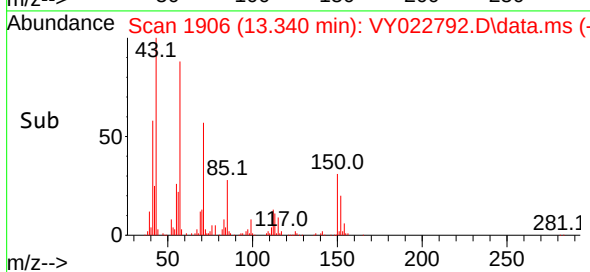
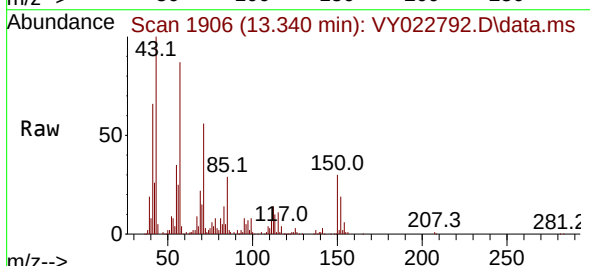
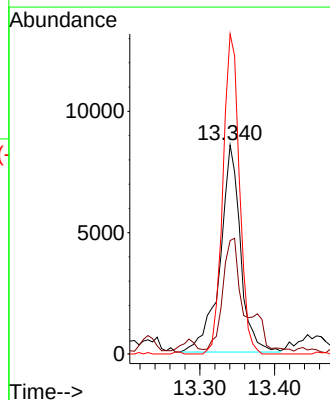
RT: 13.340 min Scan# 1906

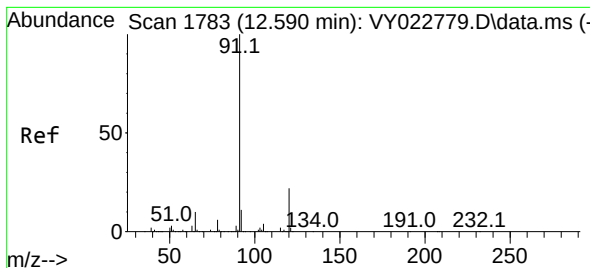
Delta R.T. -0.006 min

Lab File: VY022792.D

Acq: 24 Jun 2025 13:09

Tgt Ion:152	Resp:	16310
Ion Ratio	Lower	Upper
152	100	
115	46.1	28.9 86.7
150	124.4	0.0 349.6





#78

n-propylbenzene

Concen: 4.514 ug/l

RT: 12.590 min Scan# 1783

Delta R.T. -0.006 min

Lab File: VY022792.D

Acq: 24 Jun 2025 13:09

Instrument :

MSVOA_Y

ClientSampleId :

20071

Tgt Ion: 91 Resp: 6574

Ion Ratio Lower Upper

91 100

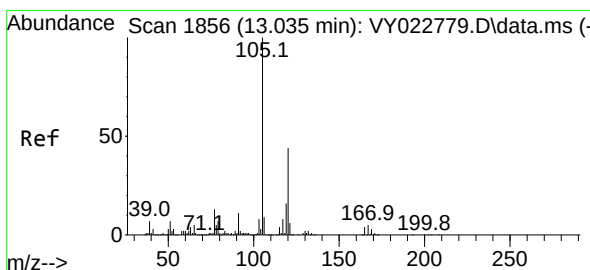
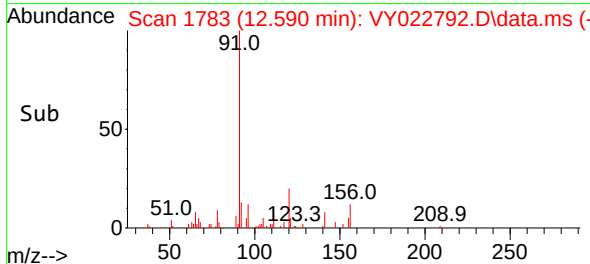
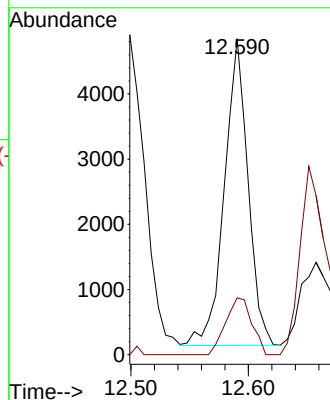
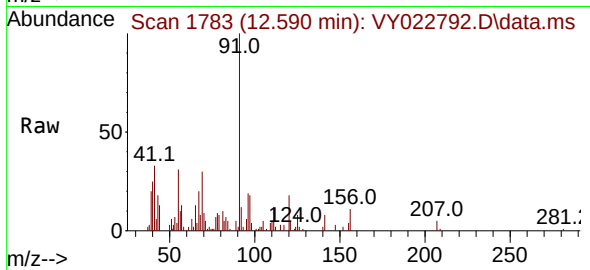
120 20.5 10.8 32.4

Manual Integrations

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Reviewed By :Mahesh Dadoda 06/25/2025

Supervised By :Semsettin Yesilyurt 06/25/2025



#84

1,2,4-Trimethylbenzene

Concen: 56.632 ug/l

RT: 13.036 min Scan# 1856

Delta R.T. -0.006 min

Lab File: VY022792.D

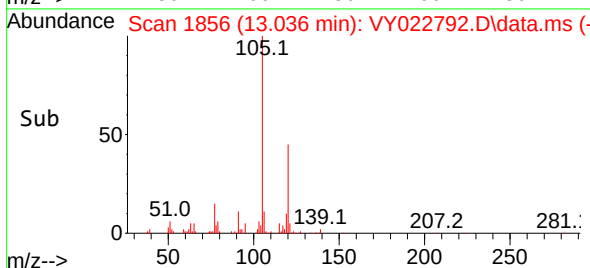
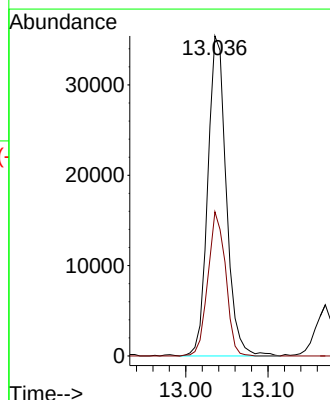
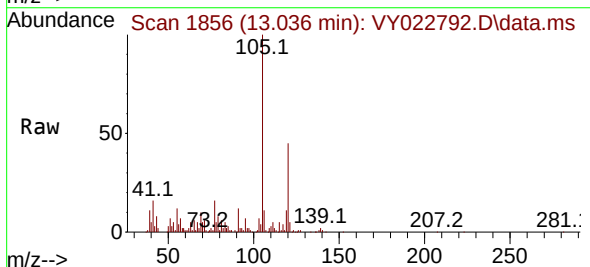
Acq: 24 Jun 2025 13:09

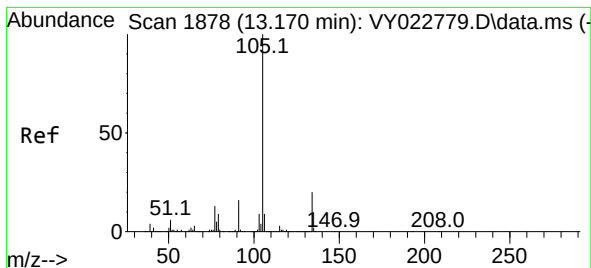
Tgt Ion:105 Resp: 55211

Ion Ratio Lower Upper

105 100

120 43.1 22.7 68.1





#85

sec-Butylbenzene

Concen: 6.845 ug/l

RT: 13.170 min Scan# 1878

Delta R.T. -0.006 min

Lab File: VY022792.D

Acq: 24 Jun 2025 13:09

Instrument :

MSVOA_Y

ClientSampleId :

20071

Tgt Ion:105 Resp: 8844

Ion Ratio Lower Upper

105 100

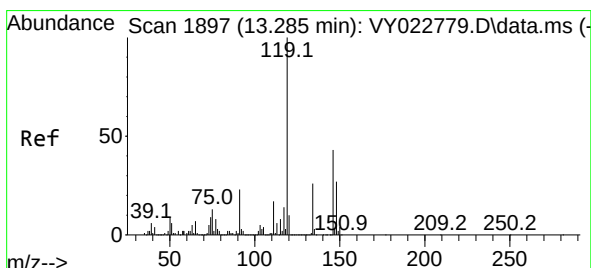
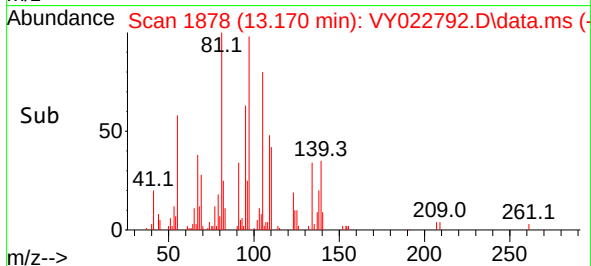
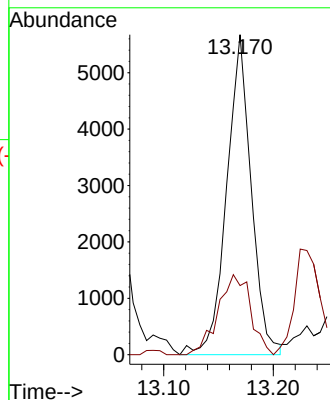
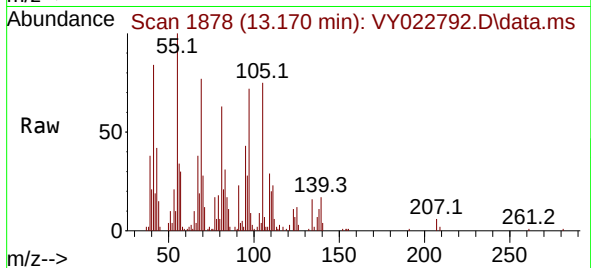
134 33.1 9.7 28.9

Manual Integrations

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Reviewed By :Mahesh Dadoda 06/25/2025

Supervised By :Semsettin Yesilyurt 06/25/2025



#86

p-Isopropyltoluene

Concen: 10.557 ug/l

RT: 13.285 min Scan# 1897

Delta R.T. -0.006 min

Lab File: VY022792.D

Acq: 24 Jun 2025 13:09

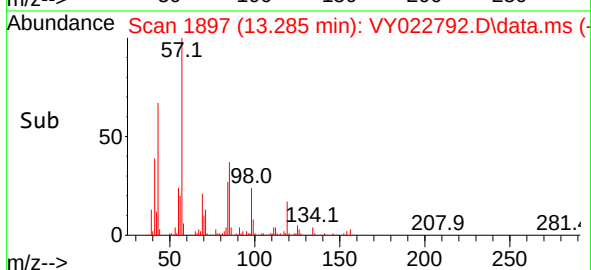
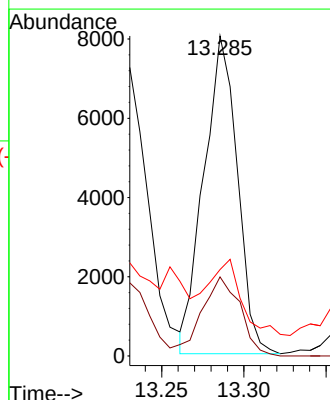
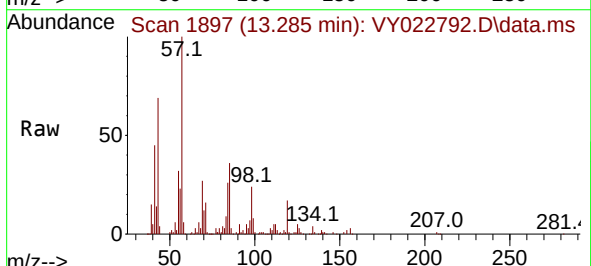
Tgt Ion:119 Resp: 11351

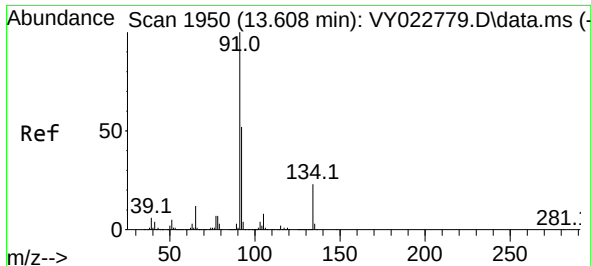
Ion Ratio Lower Upper

119 100

134 28.7 13.1 39.1

91 21.6 11.6 34.8





#89

n-Butylbenzene

Concen: 24.216 ug/l m

RT: 13.615 min Scan# 1951

Delta R.T. -0.006 min

Lab File: VY022792.D

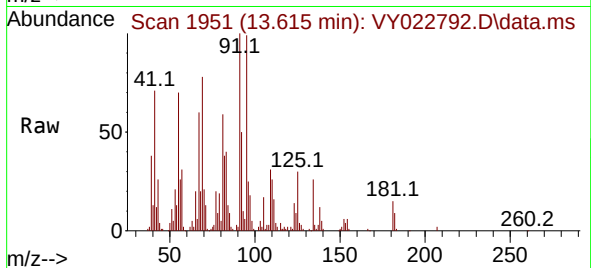
Acq: 24 Jun 2025 13:09

Instrument :

MSVOA_Y

ClientSampleId :

20071



Tgt Ion: 91	Resp: 2449
Ion Ratio	Lower Upper
91	100
92	48.0 25.9 77.8
134	0.0 12.0 36.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 06/25/2025

Supervised By :Semsettin Yesilyurt 06/25/2025

