

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051225\
 Data File : VY022229.D
 Acq On : 12 May 2025 16:56
 Operator : SY/MD
 Sample : Q1980-06
 Misc : 4.75g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 3836

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/13/2025
 Supervised By :Semsettin Yesilyurt 05/13/2025

Quant Time: May 13 02:23:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	44135	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	83063	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	37982	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	11126	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	53049	130.128	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 260.260%#			
35) Dibromofluoromethane	7.634	113	51238	93.371	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 186.740%#			
50) Toluene-d8	10.109	98	56732	27.422	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 54.840%#			
62) 4-Bromofluorobenzene	12.401	95	14073	20.207	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 40.420%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.866	59	16549	739.435	ug/l #	81
16) Acetone	3.879	43	1755m	12.607	ug/l	
18) Methyl Acetate	4.378	43	3317	17.418	ug/l	95
20) Methylene Chloride	4.616	84	5702	11.061	ug/l	85
40) Benzene	8.079	78	3447	1.496	ug/l	94
52) Toluene	10.170	92	2745	1.840	ug/l	95
67) Ethyl Benzene	11.517	91	2348	1.690	ug/l #	87
68) m/p-Xylenes	11.627	106	2664	4.818	ug/l	94
69) o-Xylene	11.956	106	1847	3.624	ug/l	78
78) n-propylbenzene	12.590	91	7675	8.670	ug/l	98
80) 1,3,5-Trimethylbenzene	12.737	105	10002	16.331	ug/l	95
84) 1,2,4-Trimethylbenzene	13.042	105	34533	56.370	ug/l	99
85) sec-Butylbenzene	13.176	105	6721	8.362	ug/l	90
86) p-Isopropyltoluene	13.291	119	5480	8.029	ug/l	98
89) n-Butylbenzene	13.615	91	9479m	15.538	ug/l	
95) Naphthalene	15.145	128	4382	13.990	ug/l #	79

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

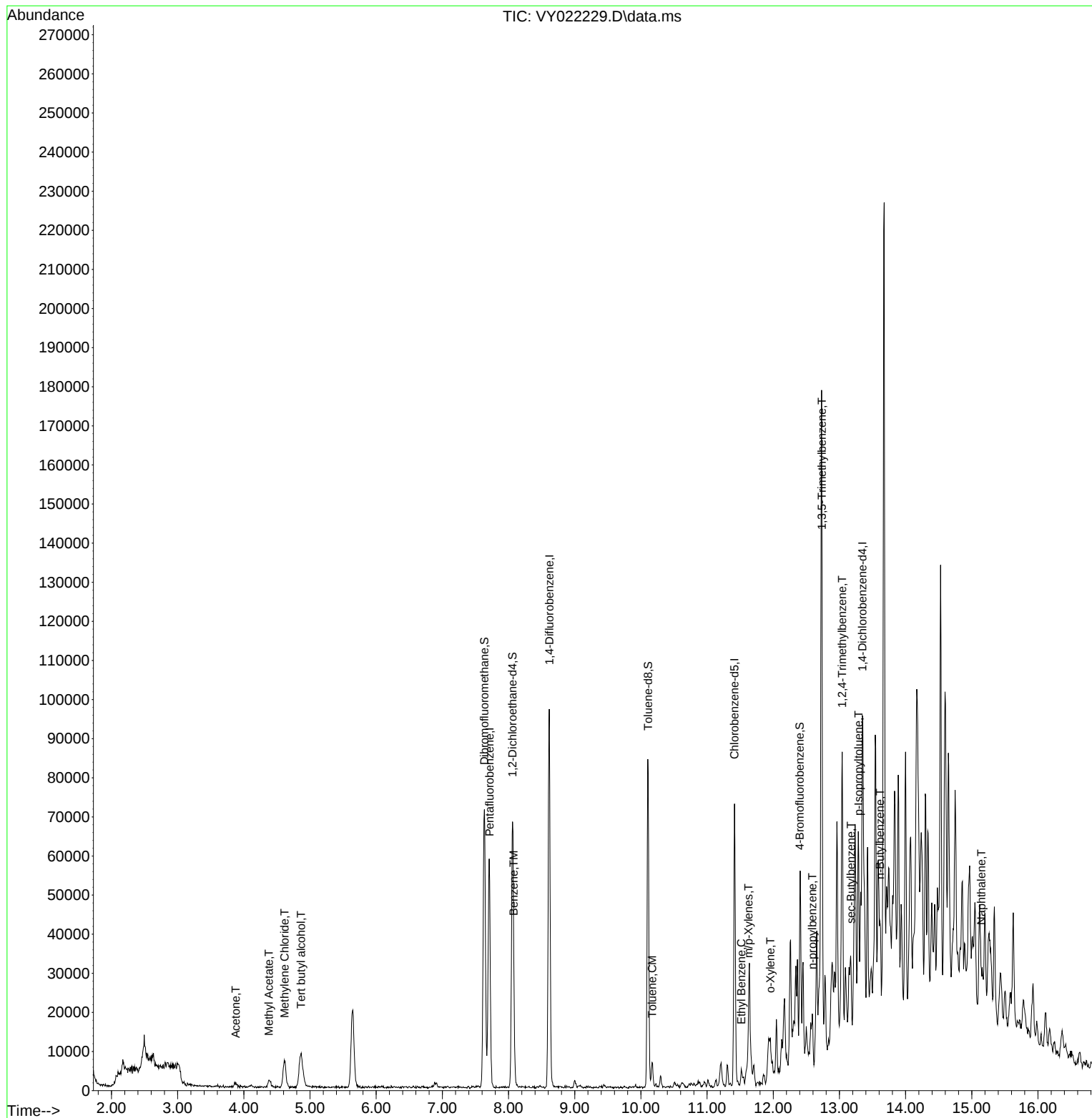
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051225\
Data File : VY022229.D
Acq On : 12 May 2025 16:56
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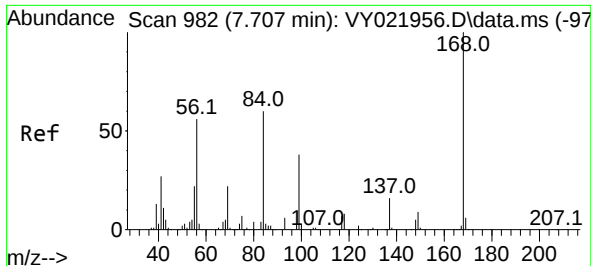
Instrument :
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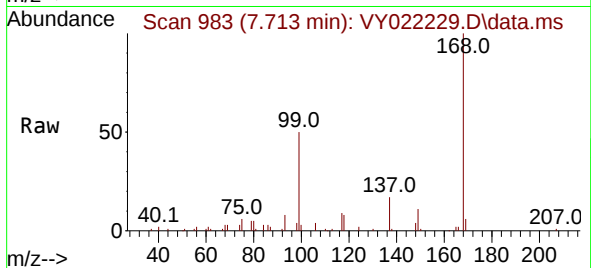
Quant Time: May 13 02:23:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 23 02:30:30 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

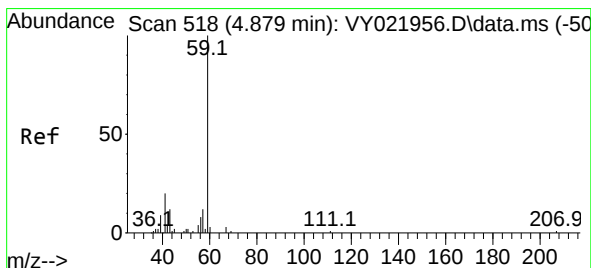
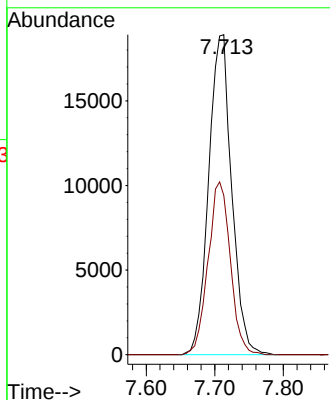
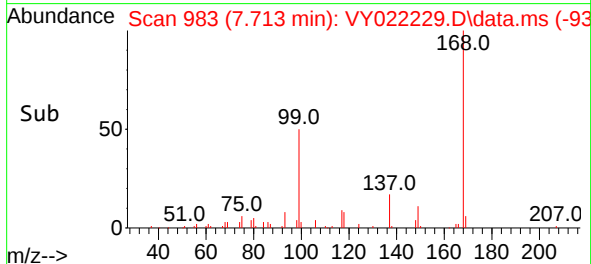
Instrument :
MSVOA_Y
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3836



Tgt Ion:168 Resp: 4413
Ion Ratio Lower Upper
168 100
99 49.7 43.1 64.7

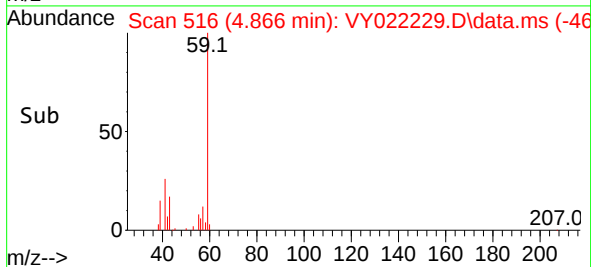
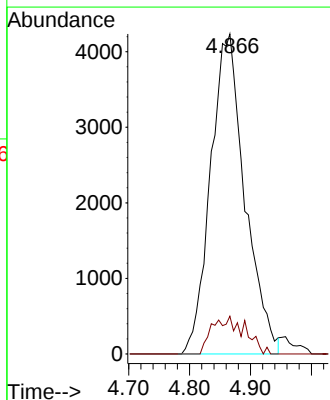
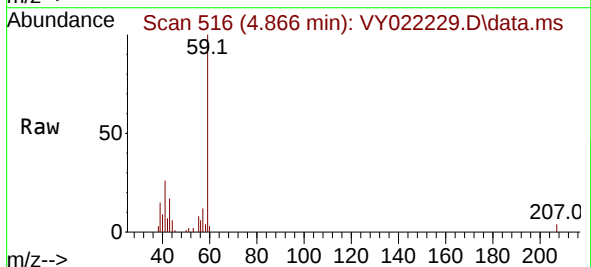
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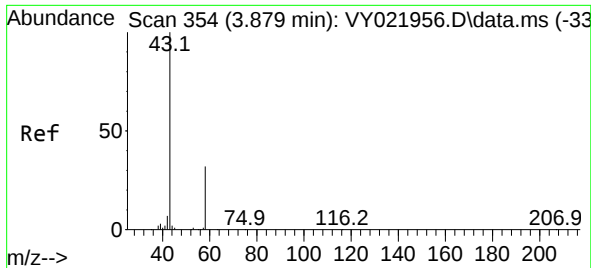
Reviewed By :Mahesh Dadoda 05/13/2025
Supervised By :Semsettin Yesilyurt 05/13/2025



#11
Tert butyl alcohol
Concen: 739.435 ug/l
RT: 4.866 min Scan# 516
Delta R.T. -0.012 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

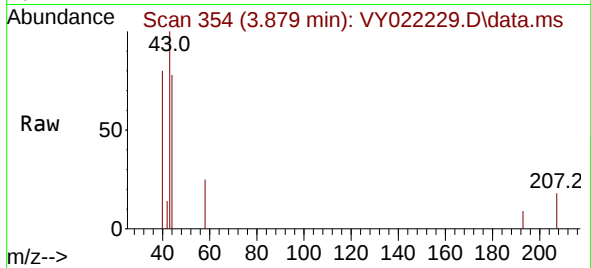
Tgt Ion: 59 Resp: 16549
Ion Ratio Lower Upper
59 100
57 4.4 9.3 13.9#





#16
Acetone
Concen: 12.607 ug/l m
RT: 3.879 min Scan# 31
Delta R.T. -0.000 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

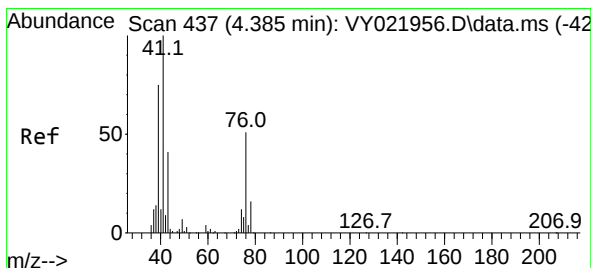
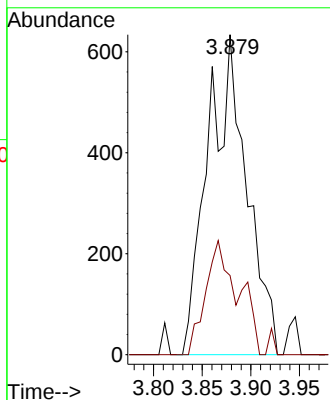
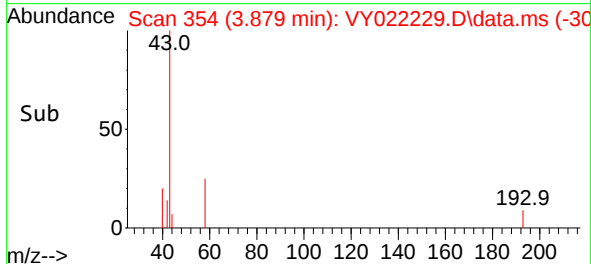
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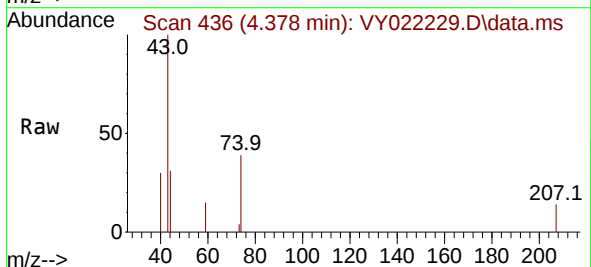
Tgt Ion: 43 Resp: 175
Ion Ratio Lower Upper
43 100
58 24.8 27.0 40.4

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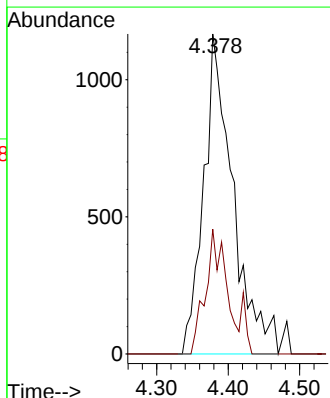
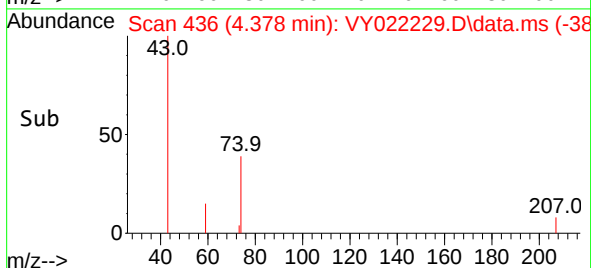
Reviewed By :Mahesh Dadoda 05/13/2025
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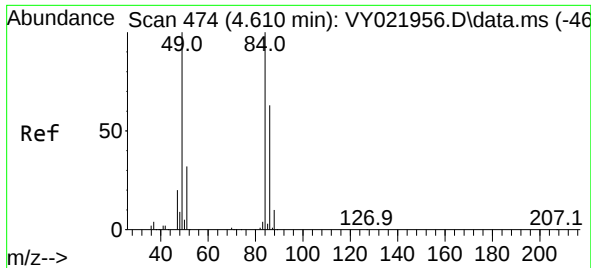


#18
Methyl Acetate
Concen: 17.418 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56



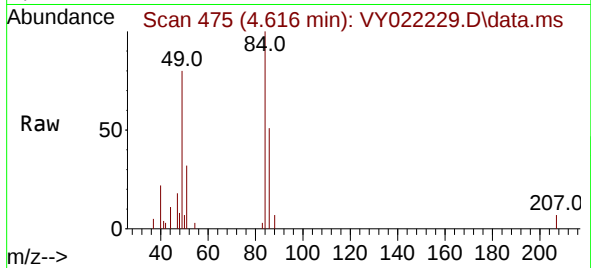
Tgt Ion: 43 Resp: 3317
Ion Ratio Lower Upper
43 100
74 27.6 24.2 36.4





#20
Methylene Chloride
Concen: 11.061 ug/l
RT: 4.616 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

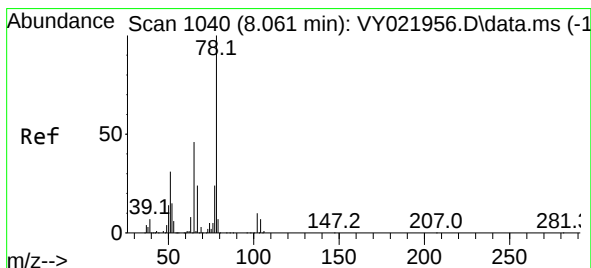
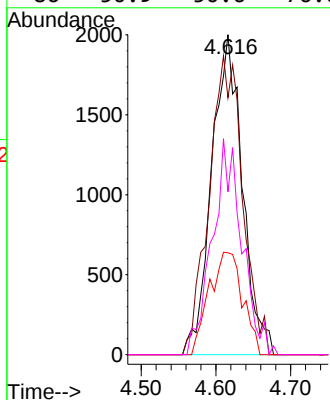
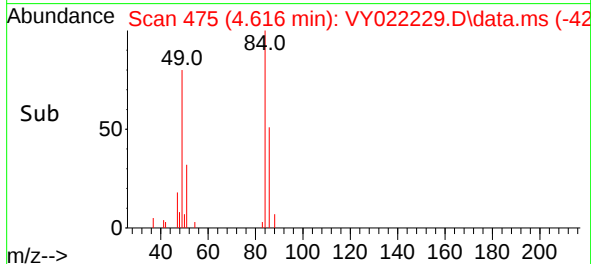
Instrument :
MSVOA_Y
ClientSampleId :
3836



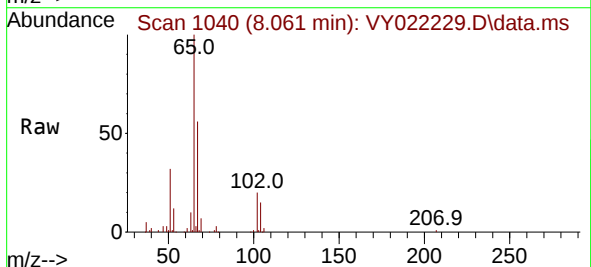
Tgt Ion: 84 Resp: 570
Ion Ratio Lower Upper
84 100
49 80.3 79.9 119.9
51 31.8 25.4 38.0
86 50.9 50.6 76.0

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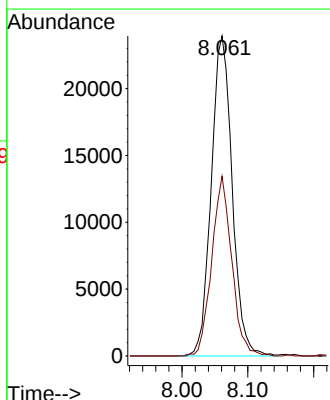
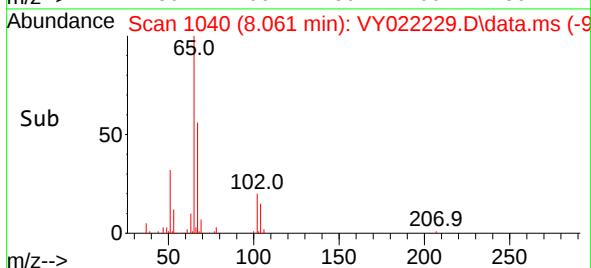
Reviewed By :Mahesh Dadoda 05/13/2025
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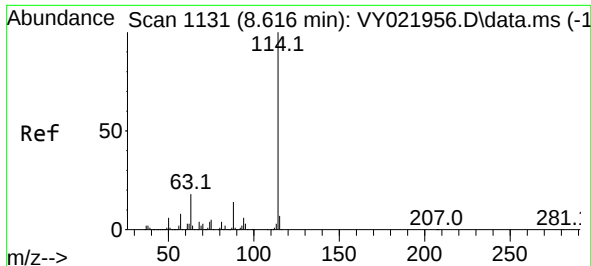


#33
1,2-Dichloroethane-d4
Concen: 130.128 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56



Tgt Ion: 65 Resp: 53049
Ion Ratio Lower Upper
65 100
67 53.8 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022229.D

Acq: 12 May 2025 16:56

Instrument :

MSVOA_Y

ClientSampleId :

3836

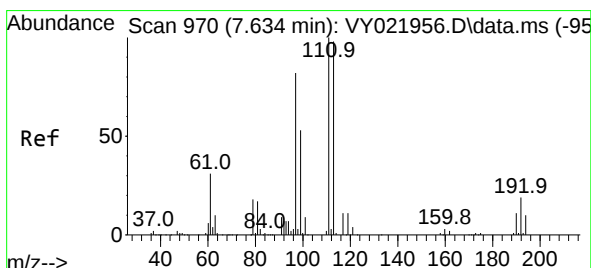
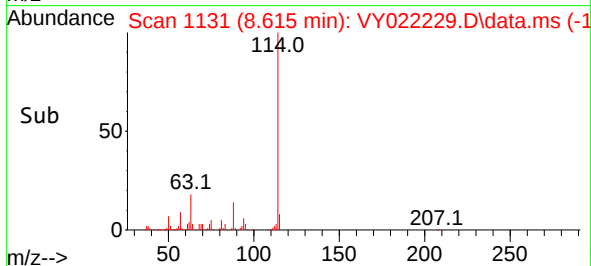
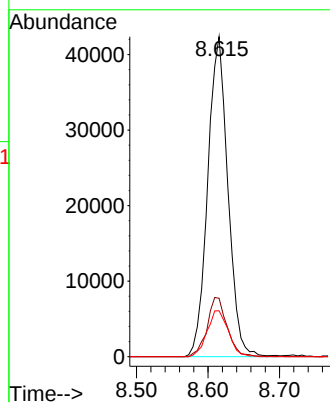
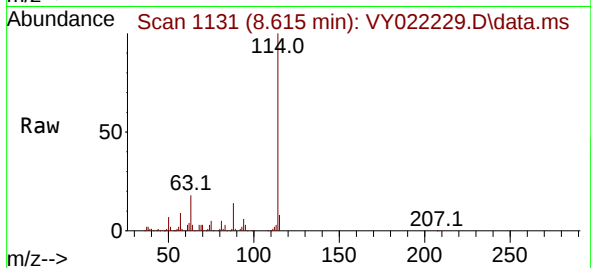
Tgt Ion:114	Resp:	8306
Ion Ratio	Lower	Upper
114	100	
63	18.2	0.0 35.4
88	14.4	0.0 28.2

Manual Integrations

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#35

Dibromofluoromethane

Concen: 93.371 ug/l

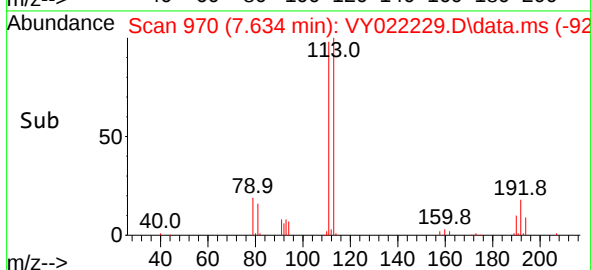
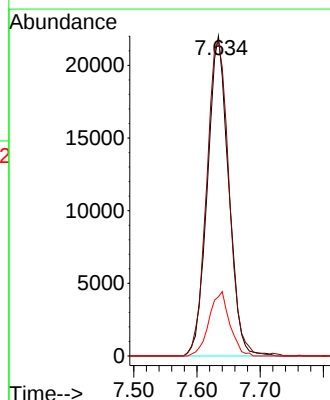
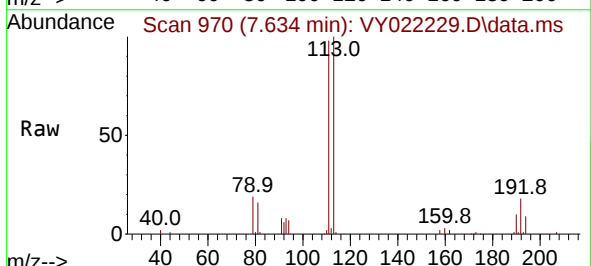
RT: 7.634 min Scan# 970

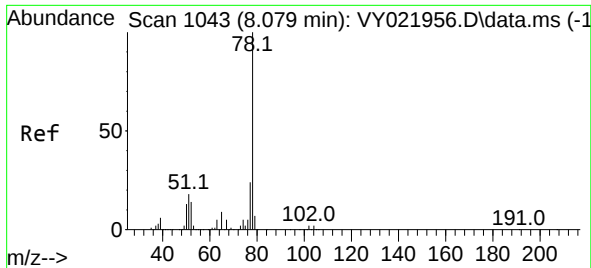
Delta R.T. -0.000 min

Lab File: VY022229.D

Acq: 12 May 2025 16:56

Tgt Ion:113	Resp:	51238
Ion Ratio	Lower	Upper
113	100	
111	103.7	81.8 122.8
192	19.6	15.6 23.4





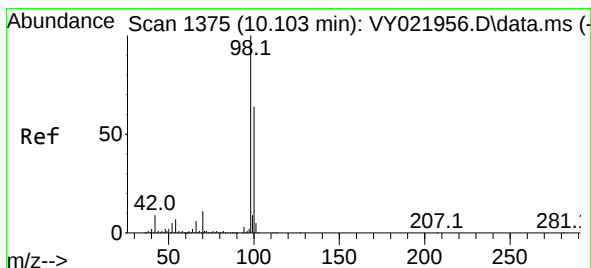
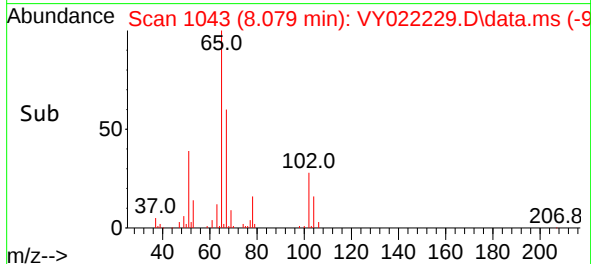
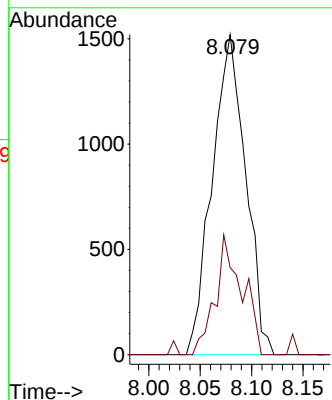
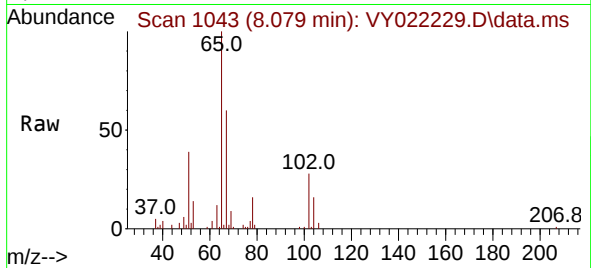
#40
Benzene
Concen: 1.496 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

Instrument :
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ClientSampleId :
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Tgt Ion: 78 Resp: 344
Ion Ratio Lower Upper
78 100
77 27.2 19.3 28.9

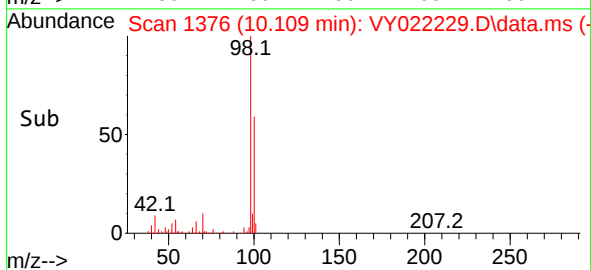
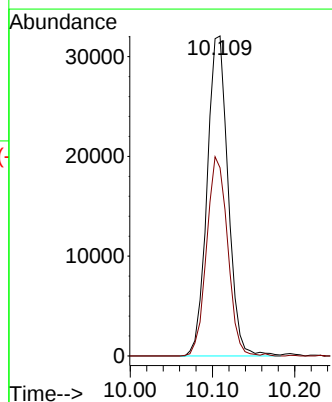
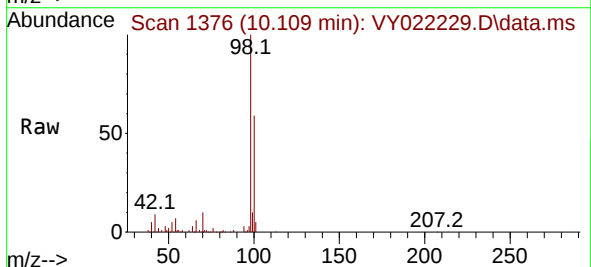
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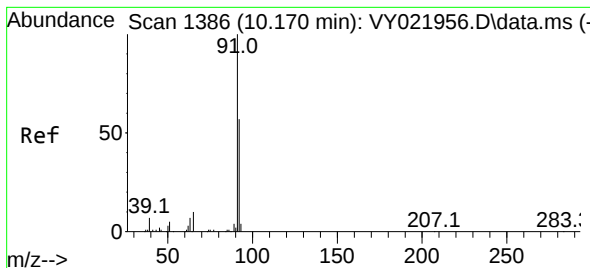
Reviewed By :Mahesh Dadoda 05/13/2025
Supervised By :Semsettin Yesilyurt 05/13/2025



#50
Toluene-d8
Concen: 27.422 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

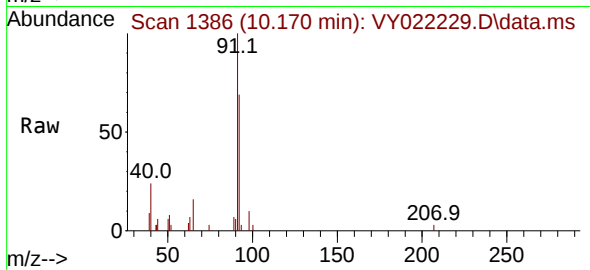
Tgt Ion: 98 Resp: 56732
Ion Ratio Lower Upper
98 100
100 62.5 51.6 77.4





#52
Toluene
Concen: 1.840 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

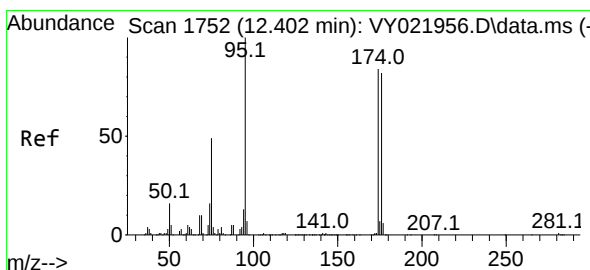
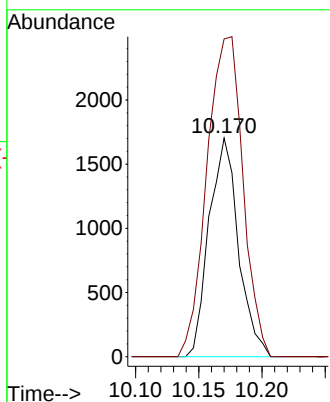
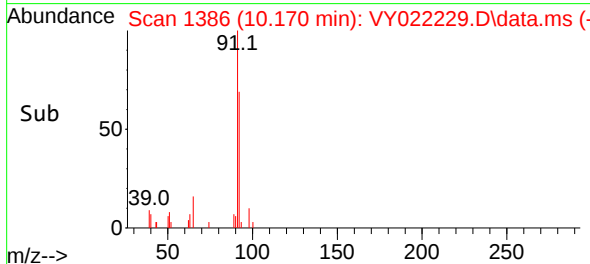
Instrument :
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3836



Tgt Ion: 92 Resp: 2749
Ion Ratio Lower Upper
92 100
91 179.8 138.6 207.8

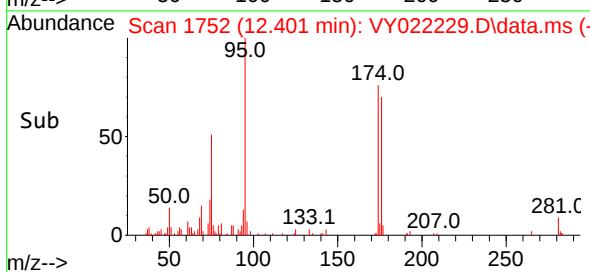
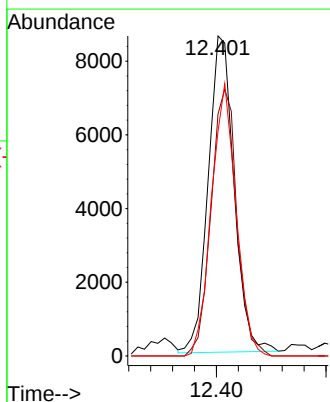
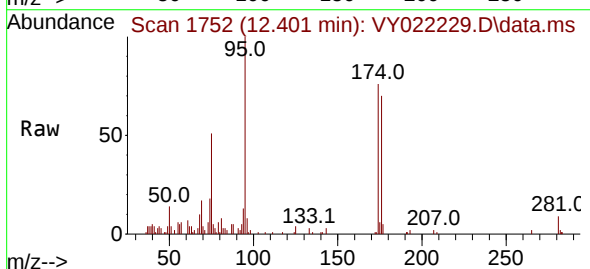
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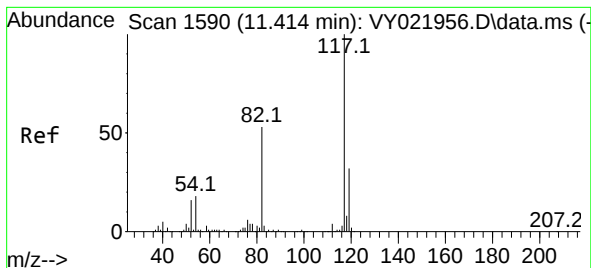
Reviewed By :Mahesh Dadoda 05/13/2025
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#62
4-Bromofluorobenzene
Concen: 20.207 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

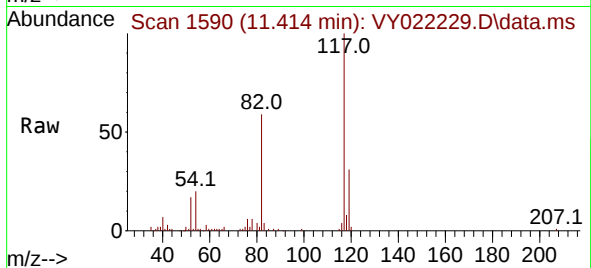
Tgt Ion: 95 Resp: 14073
Ion Ratio Lower Upper
95 100
174 84.4 0.0 179.0
176 82.2 0.0 171.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

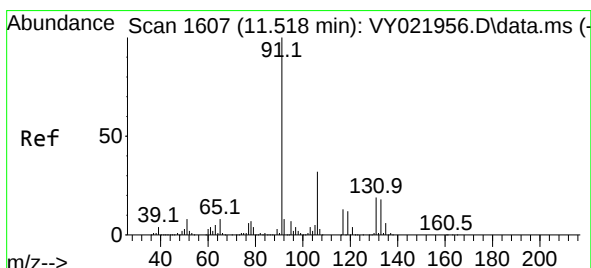
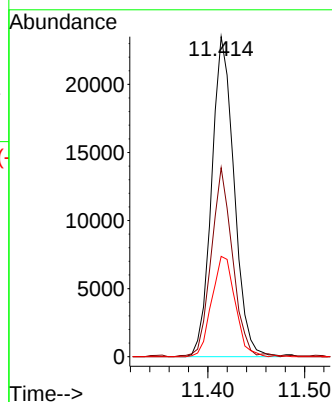
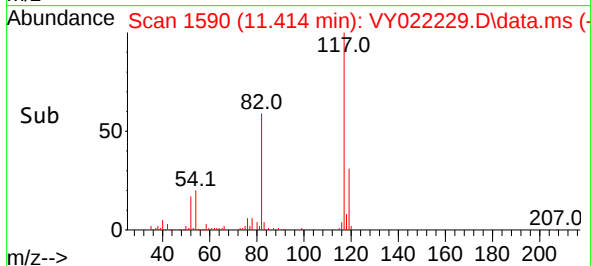
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Tgt Ion:117 Resp: 3798
Ion Ratio Lower Upper
117 100
82 59.0 42.1 63.1
119 31.4 25.7 38.5

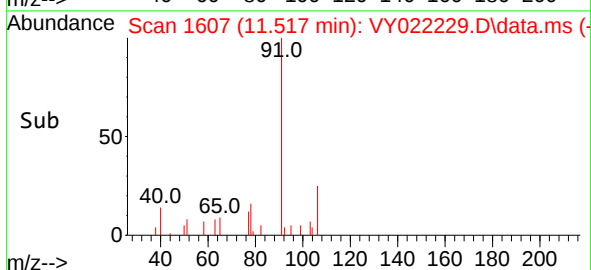
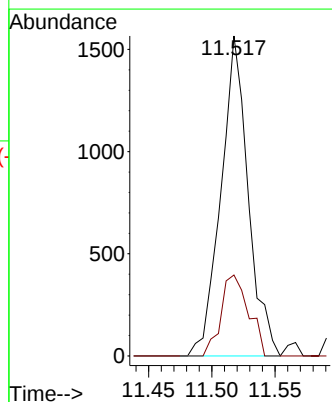
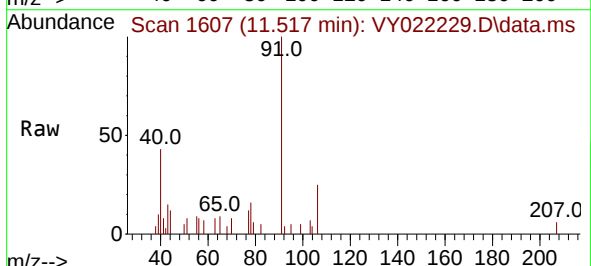
Manual Integrations
APPROVED

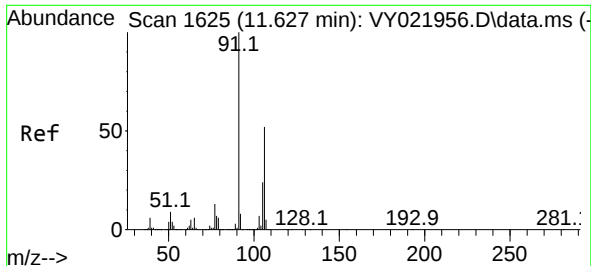
Reviewed By :Mahesh Dadoda 05/13/2025
Supervised By :Semsettin Yesilyurt 05/13/2025



#67
Ethyl Benzene
Concen: 1.690 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

Tgt Ion: 91 Resp: 2348
Ion Ratio Lower Upper
91 100
106 25.3 25.9 38.9#





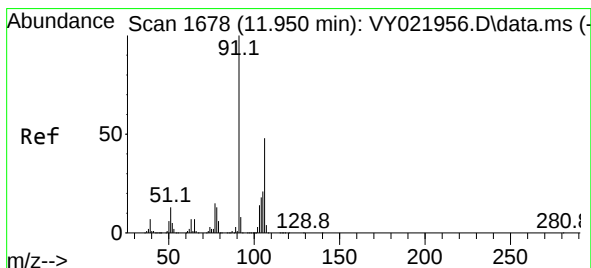
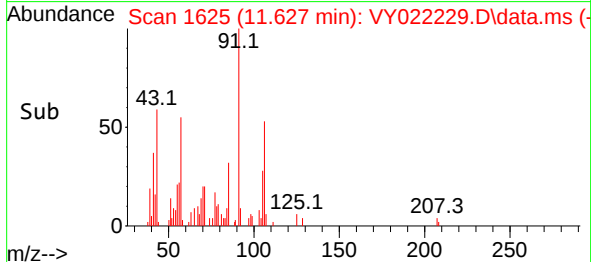
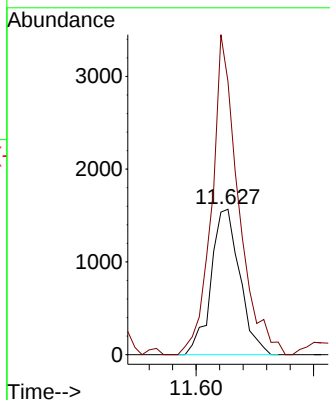
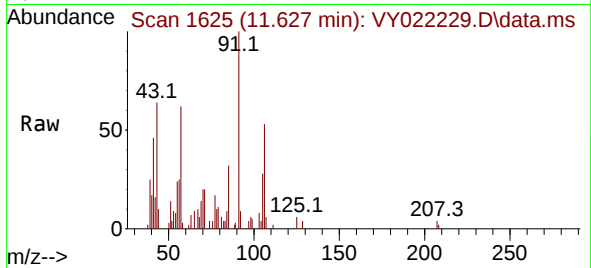
#68
m/p-Xylenes
Concen: 4.818 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

Instrument :
MSVOA_Y
ClientSampleId :
3836

Tgt Ion:106 Resp: 2664
Ion Ratio Lower Upper
106 100
91 203.8 156.2 234.2

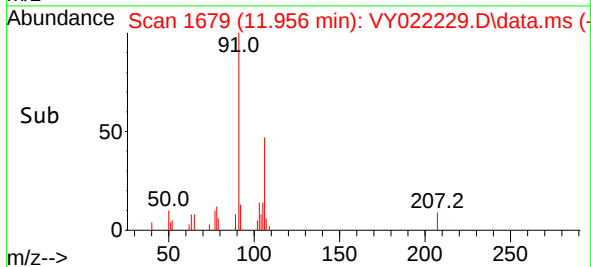
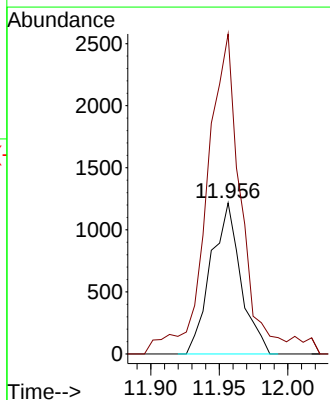
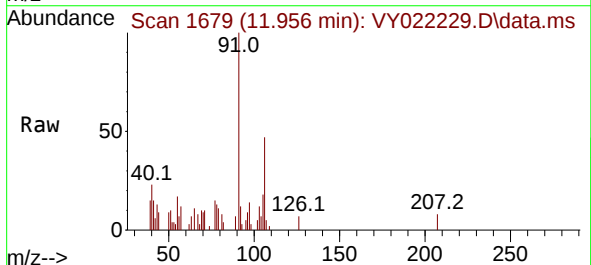
Manual Integrations
APPROVED

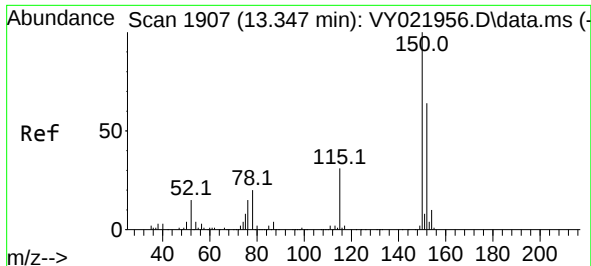
Reviewed By :Mahesh Dadoda 05/13/2025
Supervised By :Semsettin Yesilyurt 05/13/2025



#69
o-Xylene
Concen: 3.624 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. 0.006 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

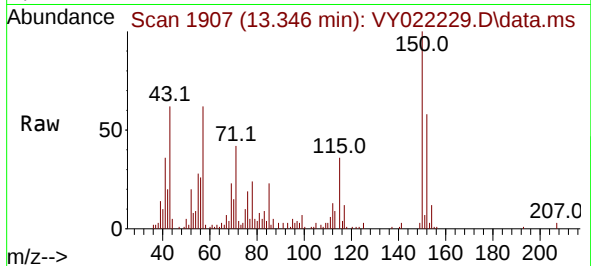
Tgt Ion:106 Resp: 1847
Ion Ratio Lower Upper
106 100
91 240.4 103.0 308.9





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

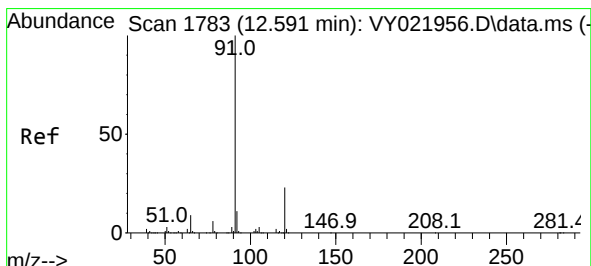
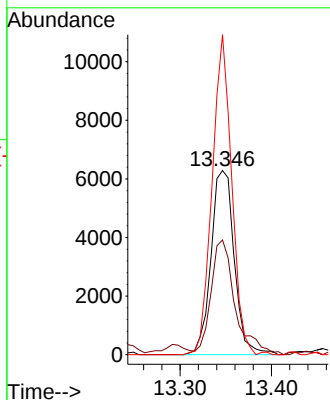
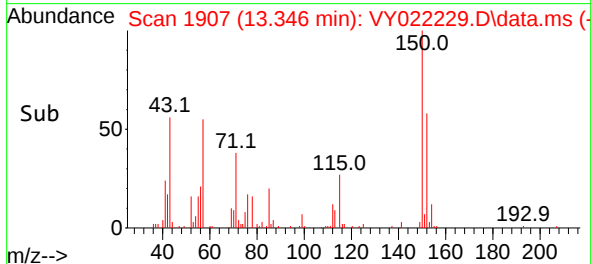
Instrument :
MSVOA_Y
ClientSampleId :
3836



Tgt Ion:152 Resp: 11120
Ion Ratio Lower Upper
152 100
115 64.5 28.0 84.0
150 146.0 0.0 345.6

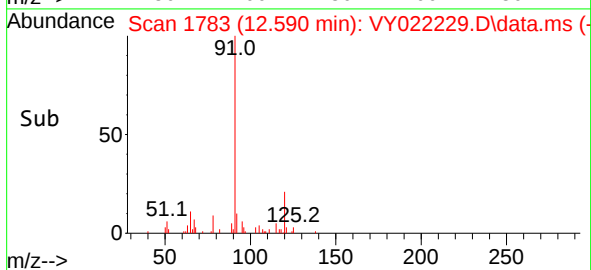
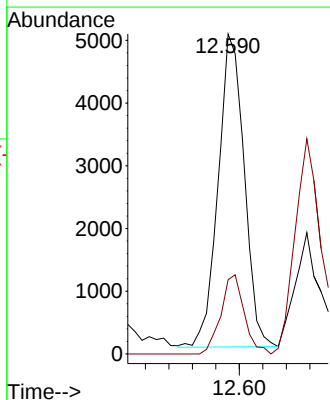
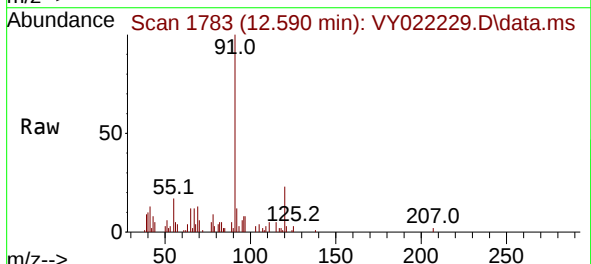
Manual Integrations
APPROVED

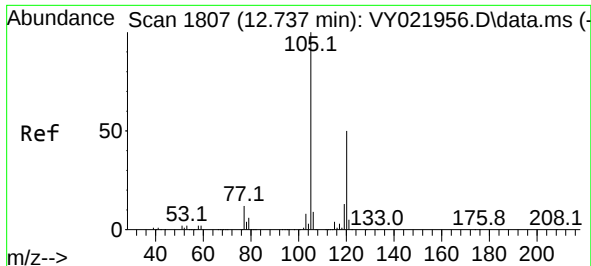
Reviewed By :Mahesh Dadoda 05/13/2025
Supervised By :Semsettin Yesilyurt 05/13/2025



#78
n-propylbenzene
Concen: 8.670 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

Tgt Ion: 91 Resp: 7675
Ion Ratio Lower Upper
91 100
120 22.7 11.9 35.5





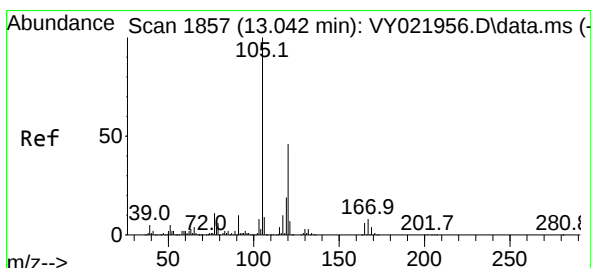
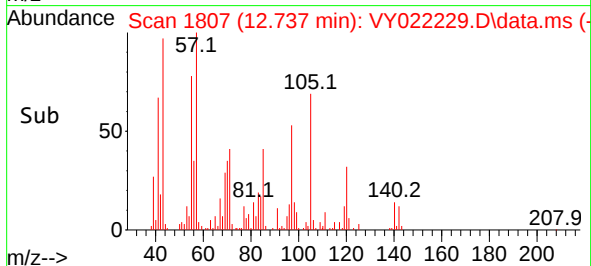
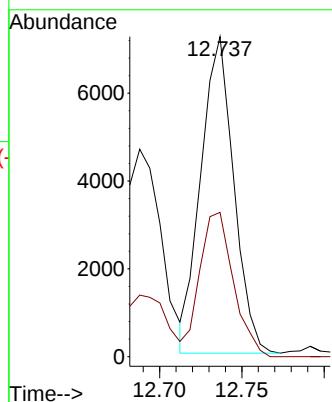
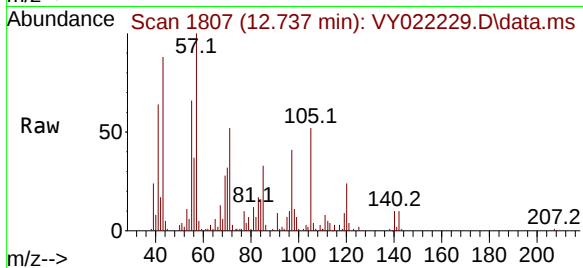
#80
1,3,5-Trimethylbenzene
Concen: 16.331 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

Instrument :
MSVOA_Y
ClientSampleId :
3836

Tgt Ion:105 Resp: 1000
Ion Ratio Lower Upper
105 100
120 46.9 25.0 75.0

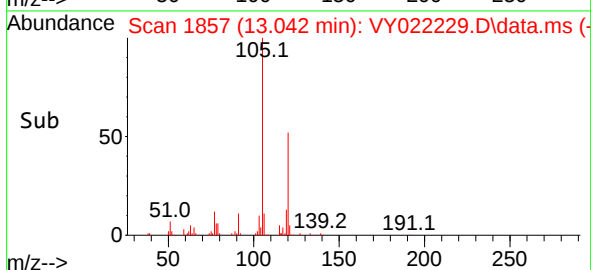
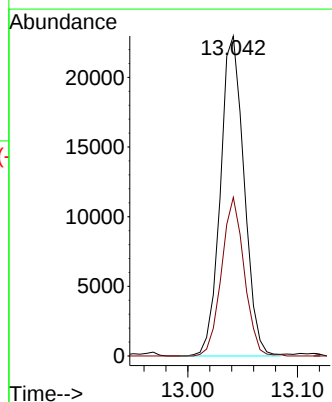
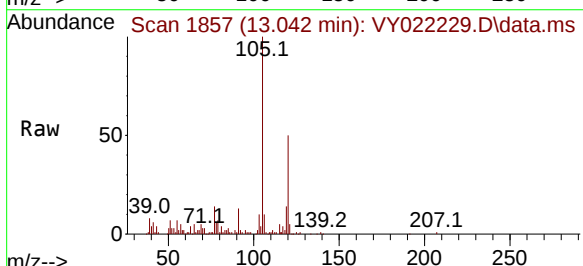
Manual Integrations
APPROVED

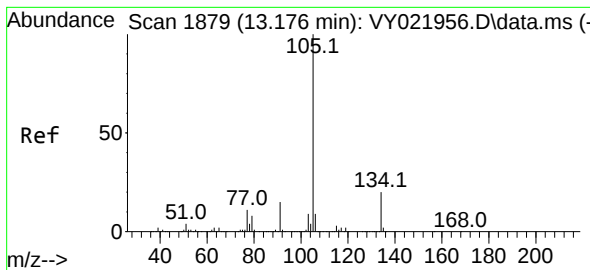
Reviewed By :Mahesh Dadoda 05/13/2025
Supervised By :Semsettin Yesilyurt 05/13/2025



#84
1,2,4-Trimethylbenzene
Concen: 56.370 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

Tgt Ion:105 Resp: 34533
Ion Ratio Lower Upper
105 100
120 47.4 23.4 70.0





#85

sec-Butylbenzene

Concen: 8.362 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. -0.000 min

Lab File: VY022229.D

Acq: 12 May 2025 16:56

Instrument :

MSVOA_Y

ClientSampleId :

3836

Tgt Ion:105 Resp: 672

Ion Ratio Lower Upper

105 100

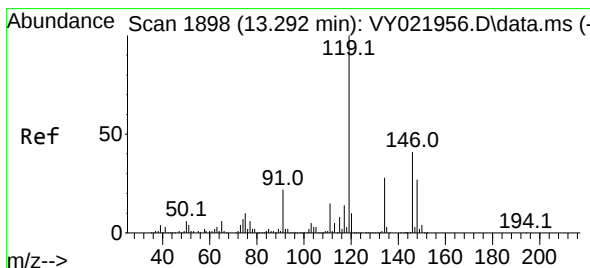
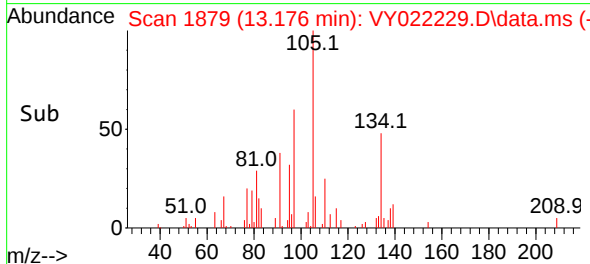
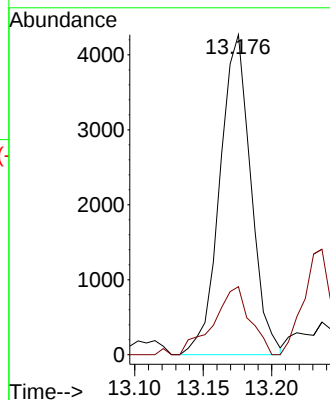
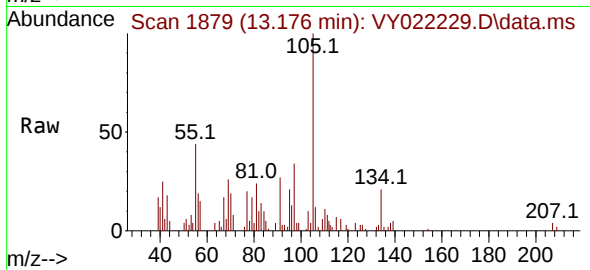
134 25.4 10.3 30.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 05/13/2025

Supervised By :Semsettin Yesilyurt 05/13/2025



#86

p-Isopropyltoluene

Concen: 8.029 ug/l

RT: 13.291 min Scan# 1898

Delta R.T. -0.000 min

Lab File: VY022229.D

Acq: 12 May 2025 16:56

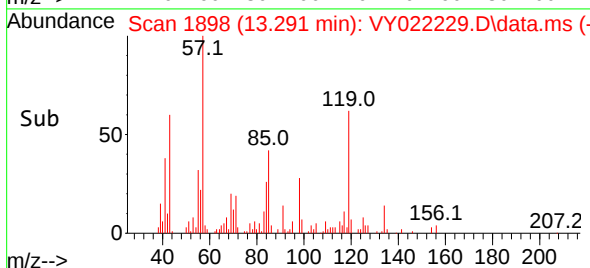
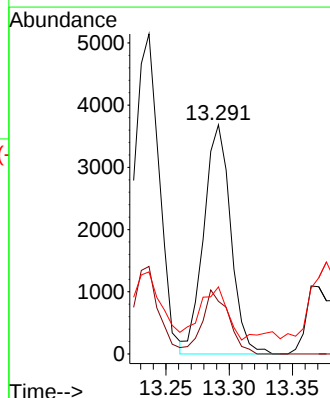
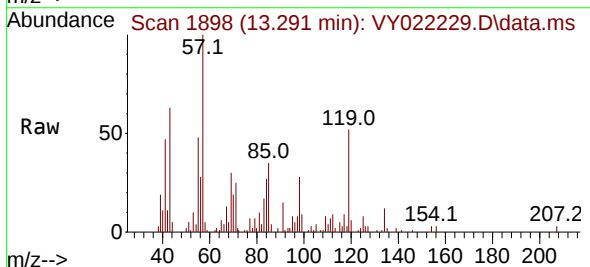
Tgt Ion:119 Resp: 5480

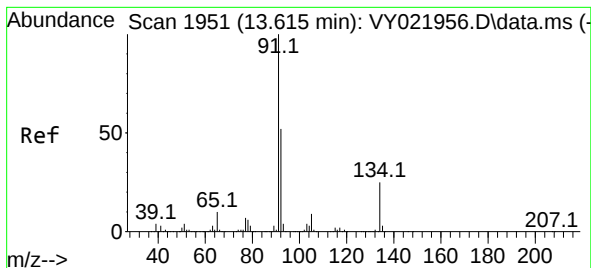
Ion Ratio Lower Upper

119 100

134 27.3 13.6 40.7

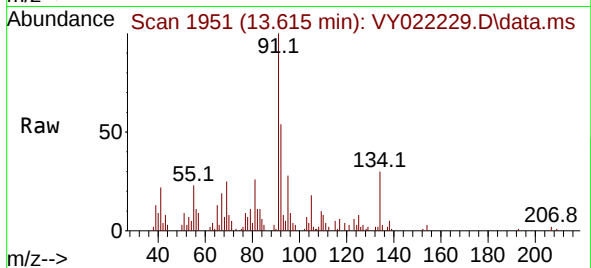
91 23.4 11.0 33.0





#89
n-Butylbenzene
Concen: 15.538 ug/l m
RT: 13.615 min Scan# 1951
Delta R.T. -0.000 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56

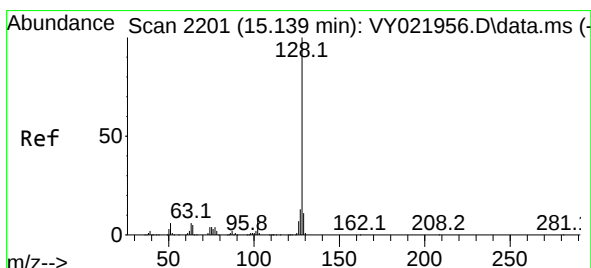
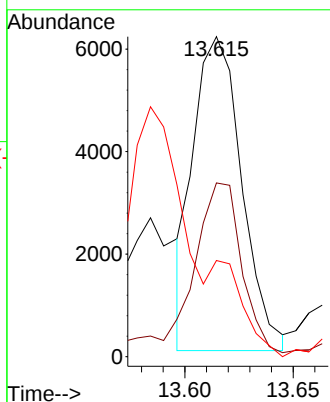
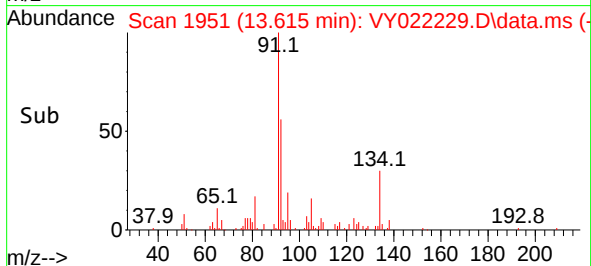
Instrument :
MSVOA_Y
ClientSampleId :
3836



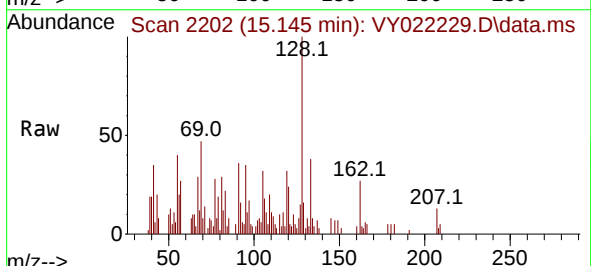
Tgt Ion: 91 Resp: 9479
Ion Ratio Lower Upper
91 100
92 57.0 26.5 79.5
134 0.0 13.4 40.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/13/2025
Supervised By :Semsettin Yesilyurt 05/13/2025



#95
Naphthalene
Concen: 13.990 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. 0.006 min
Lab File: VY022229.D
Acq: 12 May 2025 16:56



Tgt Ion:128 Resp: 4382
Ion Ratio Lower Upper
128 100
127 25.3 10.6 16.0#
129 7.1 8.9 13.3#

