

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY080923\
 Data File : VY015010.D
 Acq On : 09 Aug 2023 17:05
 Operator : SY/MD
 Sample : 03930-02
 Misc : 5.04g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 72-11935

Manual Integrations
 APPROVED

Reviewed By :Romaben Patel 08/10/2023
 Supervised By :Mahesh Dadoda 08/10/2023

Quant Time: Aug 10 01:48:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y080723S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 08 07:44:56 2023
 Response via : Initial Calibration

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

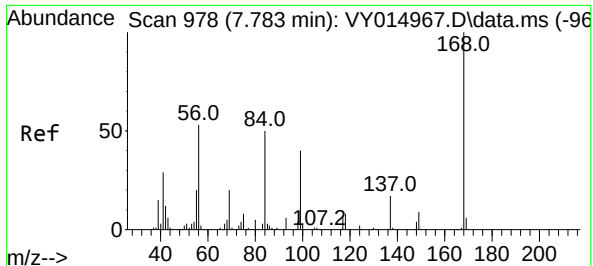
Internal Standards						
1) Pentafluorobenzene	7.783	168	42347	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	69417	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	61645	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	29137	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	22567	43.968	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	87.940%		
35) Dibromofluoromethane	7.716	113	19621	44.201	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	88.400%		
50) Toluene-d8	10.172	98	80660	47.739	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	95.480%		
62) 4-Bromofluorobenzene	12.477	95	29863	49.869	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	99.740%		
Target Compounds					Qvalue	
10) Methyl Iodide	4.094	142	840	2.115	ug/l #	86
16) Acetone	3.948	43	2305	14.402	ug/l #	88
40) Benzene	8.154	78	49428	30.458	ug/l	97
52) Toluene	10.239	92	1852	1.773	ug/l	81
67) Ethyl Benzene	11.587	91	556267	270.976	ug/l	98
68) m/p-Xylenes	11.697	106	152372	194.029	ug/l	97
69) o-Xylene	12.026	106	70874	92.232	ug/l	100
73) Isopropylbenzene	12.324	105	48879	24.956	ug/l	97
78) n-propylbenzene	12.666	91	33897	14.470	ug/l	92
80) 1,3,5-Trimethylbenzene	12.806	105	77747	48.169	ug/l	98
84) 1,2,4-Trimethylbenzene	13.117	105	283892	175.554	ug/l	97
85) sec-Butylbenzene	13.245	105	2320m	1.071	ug/l	
86) p-Isopropyltoluene	13.367	119	21568	12.024	ug/l #	75
89) n-Butylbenzene	13.678	91	8743m	5.187	ug/l	

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

Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023

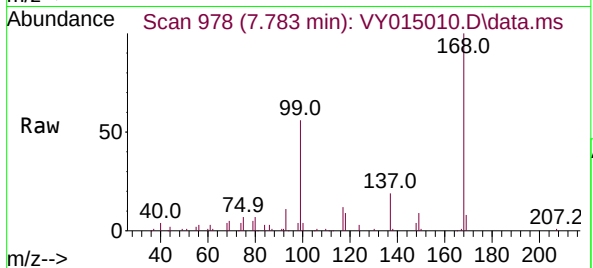
Chromatogram plot showing Abundance vs Time (min). The y-axis ranges from 0 to 7,000,000. The x-axis ranges from 2.00 to 16.00 minutes. Numerous peaks are labeled with chemical names and their corresponding retention times.

Retention Time (min)	Chemical Name
4.00	Acetone, T
4.50	Methyl iodide, T
7.80	Perfluorobenzene, S
8.00	Perfluorobenzene, T
8.20	Perfluorobenzene-d4, S
8.50	1,4-Difluorobenzene, I
10.20	Toluene-d8, S
11.50	Chlorobenzene-d5, I
11.80	Ethyl Benzene, C
12.00	m/p-Xylenes, I
12.20	o-Xylene, T
12.50	Isopropylbenzene, T
12.80	4-Bromodifluorobenzene, S
13.00	n-Propylbenzene, T
13.20	1,3,5-Trimethylbenzene, T
13.50	1,2,4-Trimethylbenzene, T
13.80	sec-Butylbenzene, T
14.00	p-Propylbenzene, T
14.20	Perfluorobenzene-d4, I
14.50	n-Butylbenzene, T
15.50	Unlabeled peak
16.50	Unlabeled peak
16.80	Unlabeled peak



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05

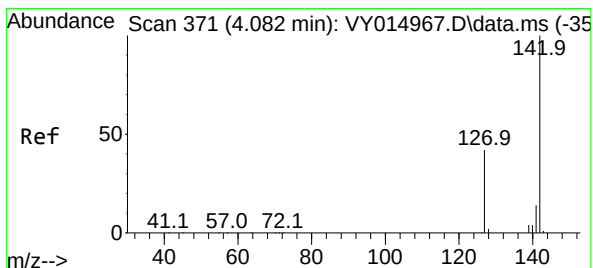
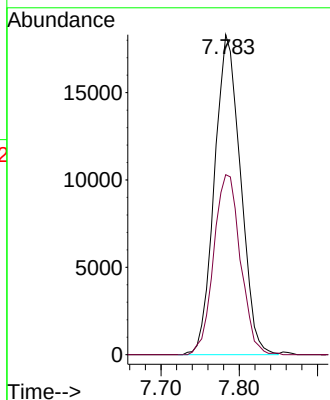
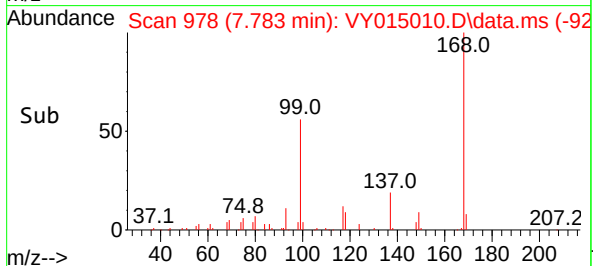
Instrument :
MSVOA_Y
ClientSampleId :
72-11935



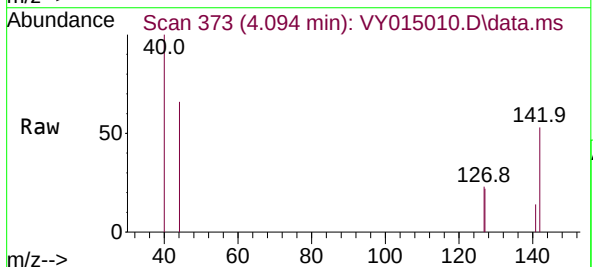
Tgt Ion:168 Resp: 4234
Ion Ratio Lower Upper
168 100
99 56.2 43.4 65.0

Manual Integrations
APPROVED

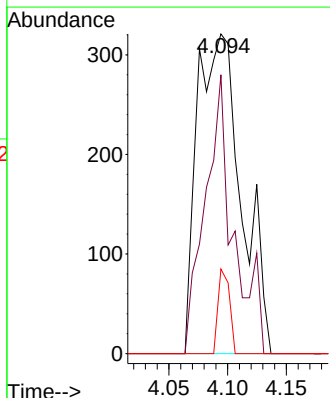
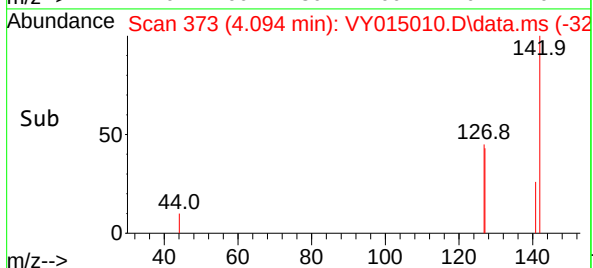
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023

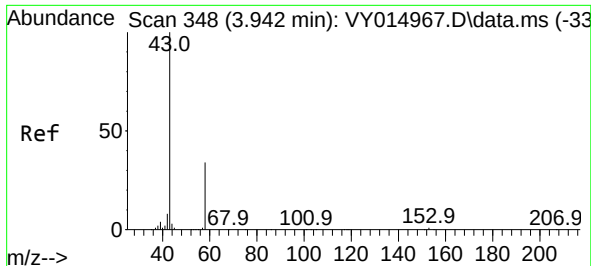


#10
Methyl Iodide
Concen: 2.115 ug/l
RT: 4.094 min Scan# 373
Delta R.T. 0.012 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05



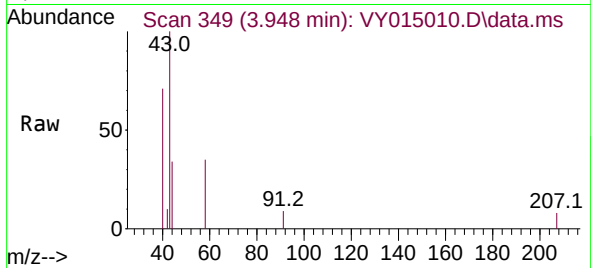
Tgt Ion:142 Resp: 840
Ion Ratio Lower Upper
142 100
127 55.6 37.6 56.4
141 6.8 11.8 17.8#





#16
Acetone
Concen: 14.402 ug/l
RT: 3.948 min Scan# 348
Delta R.T. 0.006 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05

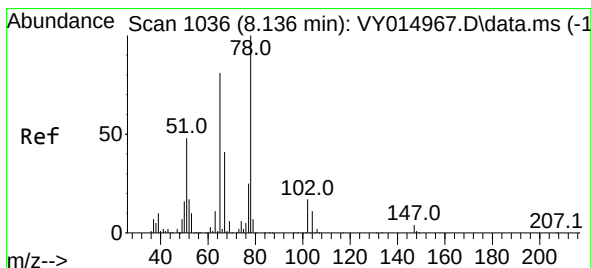
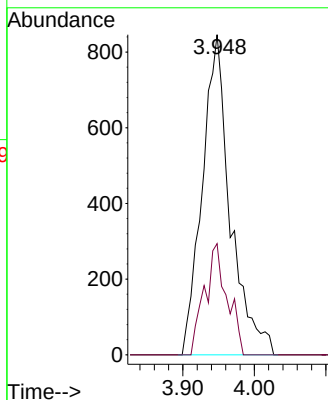
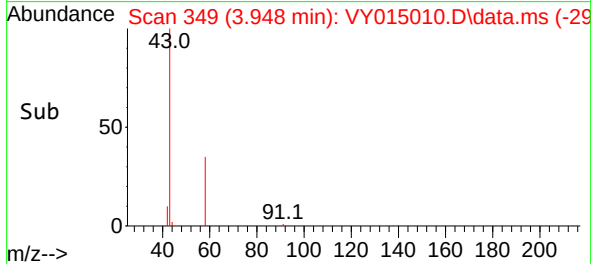
Instrument :
MSVOA_Y
ClientSampleId :
72-11935



Tgt Ion: 43 Resp: 2309
Ion Ratio Lower Upper
43 100
58 34.8 22.7 34.1

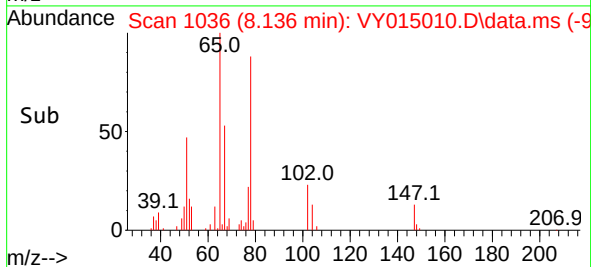
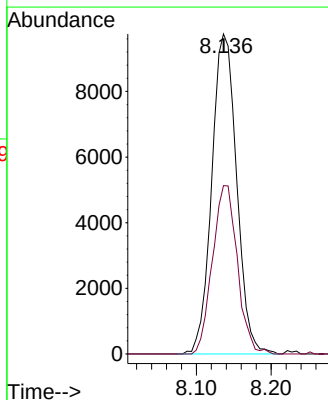
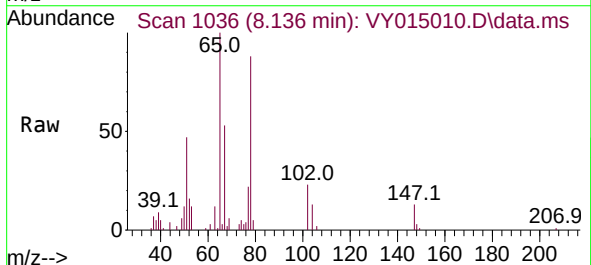
Manual Integrations
APPROVED

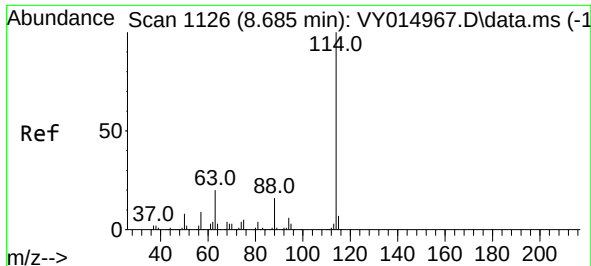
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#33
1,2-Dichloroethane-d4
Concen: 43.968 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05

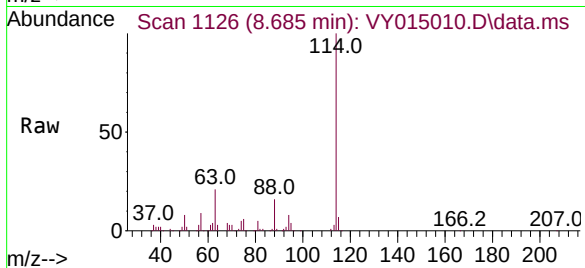
Tgt Ion: 65 Resp: 22567
Ion Ratio Lower Upper
65 100
67 52.6 0.0 101.8





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05

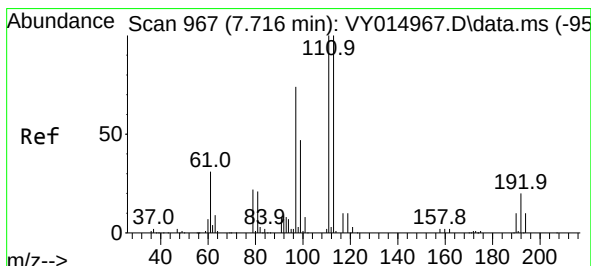
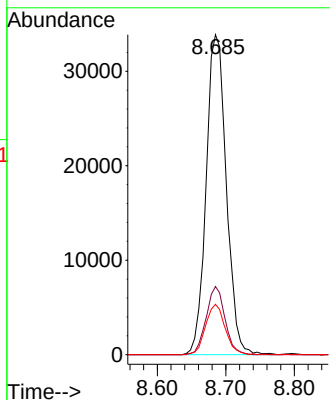
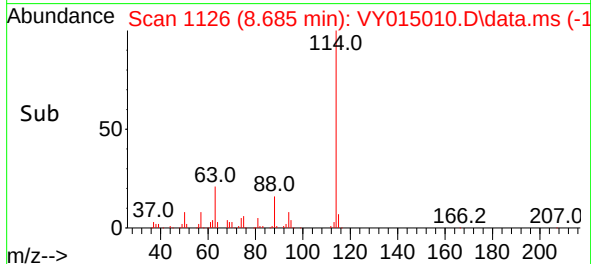
Instrument :
MSVOA_Y
ClientSampleId :
72-11935



Tgt Ion:114 Resp: 6941
Ion Ratio Lower Upper
114 100
63 21.3 0.0 42.4
88 15.7 0.0 30.6

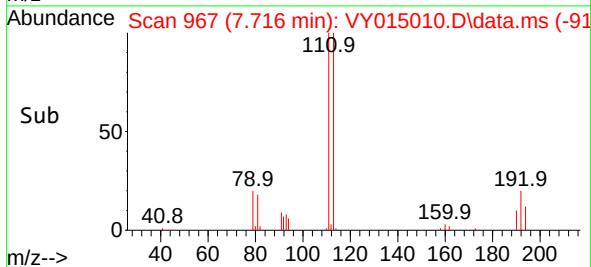
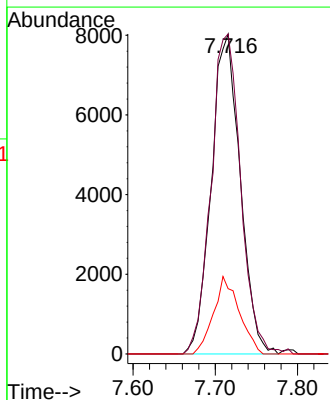
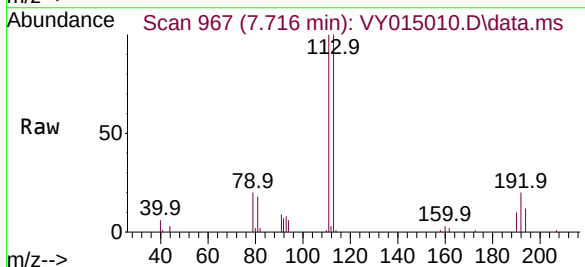
Manual Integrations
APPROVED

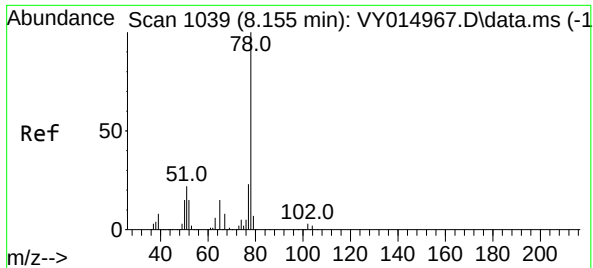
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#35
Dibromofluoromethane
Concen: 44.201 ug/l
RT: 7.716 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05

Tgt Ion:113 Resp: 19621
Ion Ratio Lower Upper
113 100
111 102.7 81.3 121.9
192 21.5 16.9 25.3





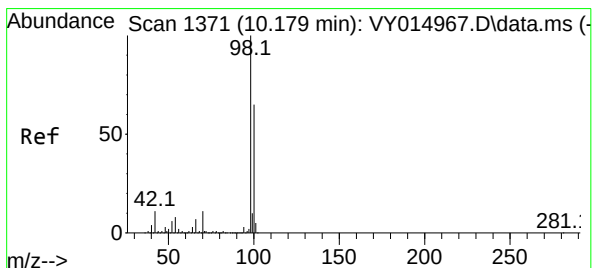
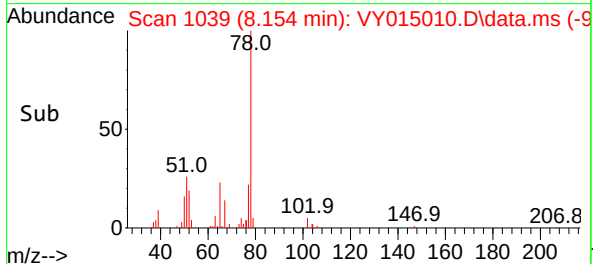
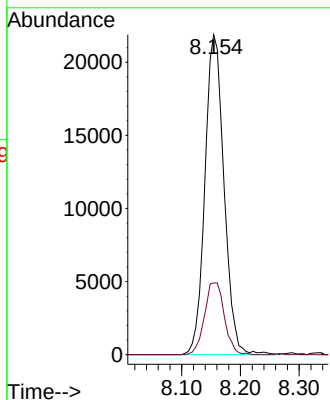
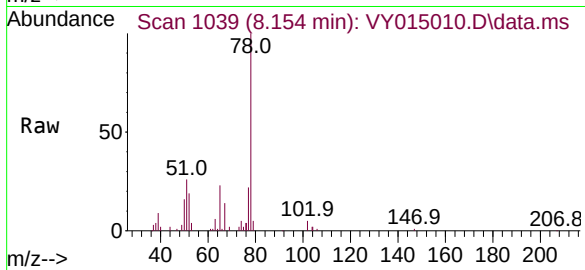
#40
Benzene
Concen: 30.458 ug/l
RT: 8.154 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05

Instrument :
MSVOA_Y
ClientSampleId :
72-11935

Tgt Ion: 78 Resp: 49428
Ion Ratio Lower Upper
78 100
77 22.4 19.0 28.6

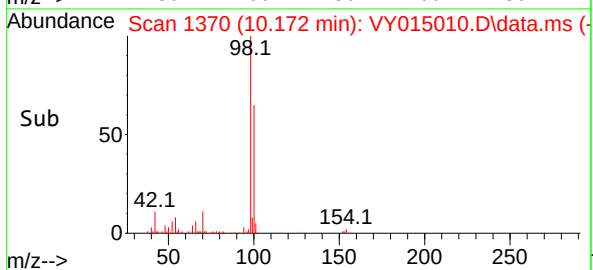
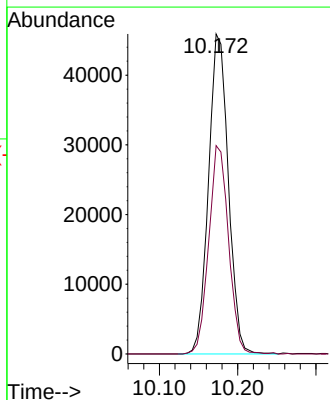
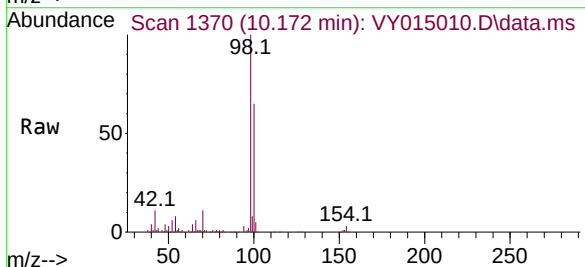
Manual Integrations
APPROVED

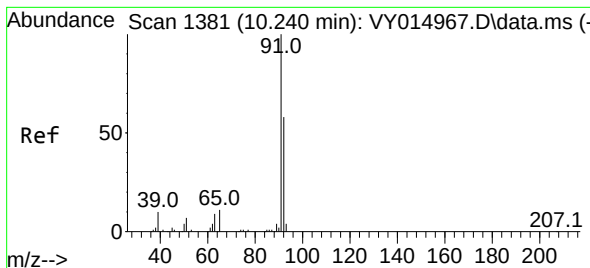
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#50
Toluene-d8
Concen: 47.739 ug/l
RT: 10.172 min Scan# 1370
Delta R.T. -0.006 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05

Tgt Ion: 98 Resp: 80660
Ion Ratio Lower Upper
98 100
100 65.1 50.1 75.1





#52

Toluene

Concen: 1.773 ug/l

RT: 10.239 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VY015010.D

Acq: 09 Aug 2023 17:05

Instrument :

MSVOA_Y

ClientSampleId :

72-11935

Tgt Ion: 92 Resp: 185

Ion Ratio Lower Upper

92 100

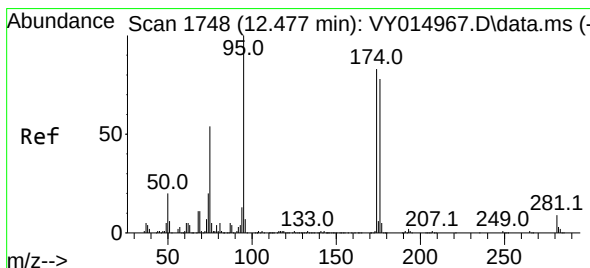
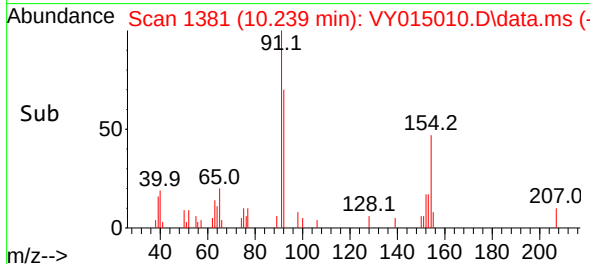
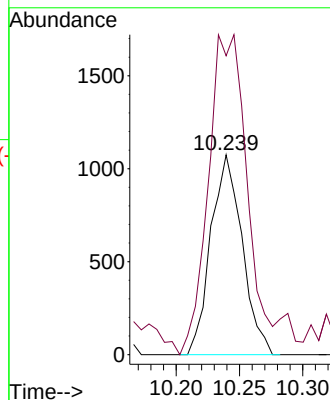
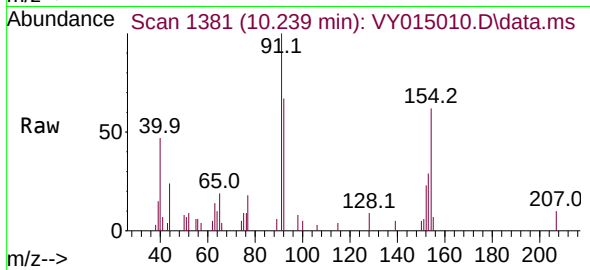
91 206.9 143.8 215.6

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 08/10/2023

Supervised By :Mahesh Dadoda 08/10/2023



#62

4-Bromofluorobenzene

Concen: 49.869 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.000 min

Lab File: VY015010.D

Acq: 09 Aug 2023 17:05

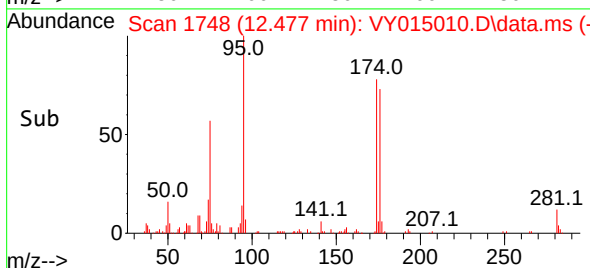
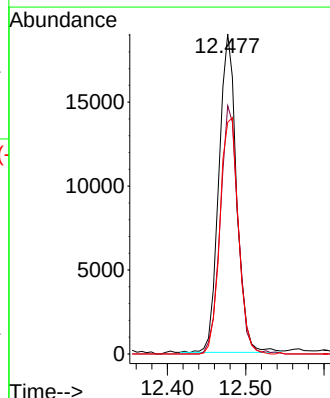
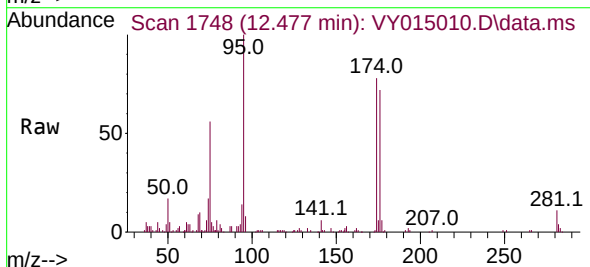
Tgt Ion: 95 Resp: 29863

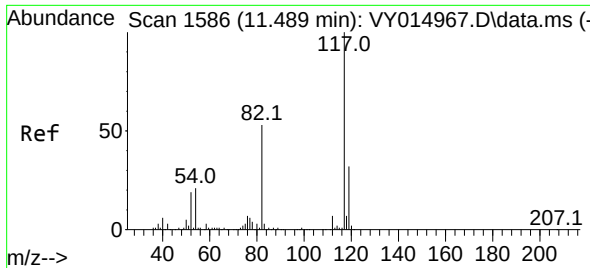
Ion Ratio Lower Upper

95 100

174 78.7 0.0 178.2

176 77.4 0.0 173.8





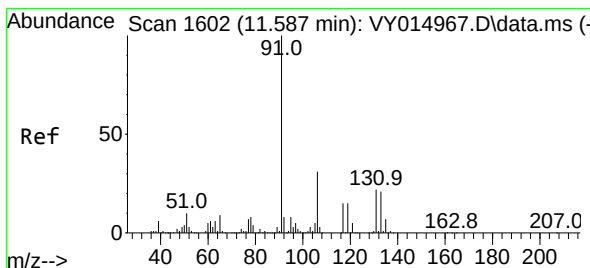
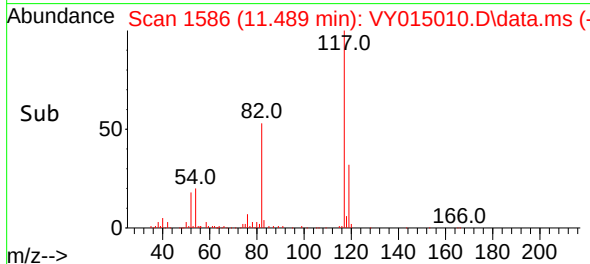
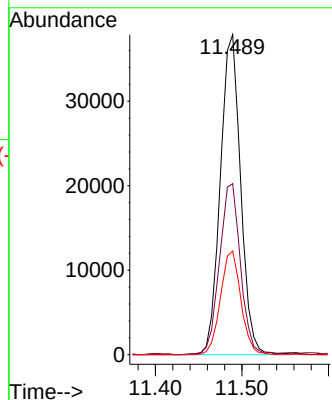
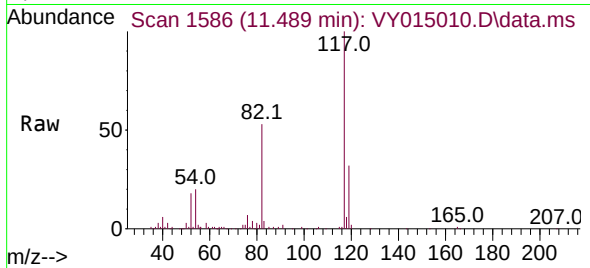
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.000 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05

Instrument :
MSVOA_Y
ClientSampleId :
72-11935

Tgt Ion:117 Resp: 61649
Ion Ratio Lower Upper
117 100
82 53.5 43.4 65.0
119 32.4 26.3 39.5

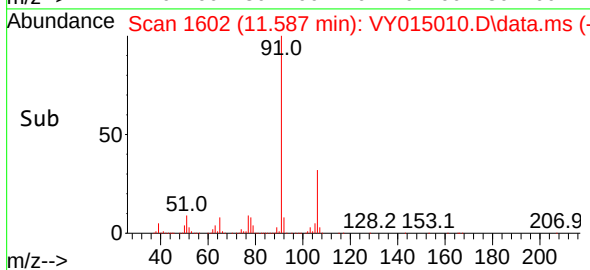
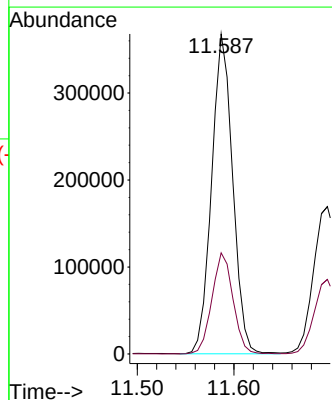
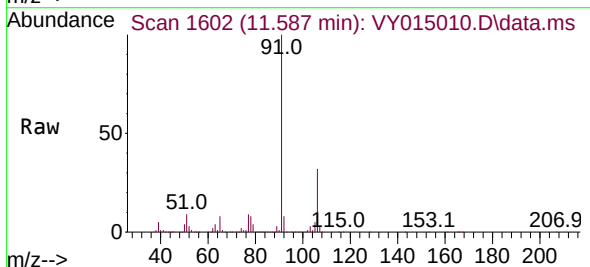
Manual Integrations
APPROVED

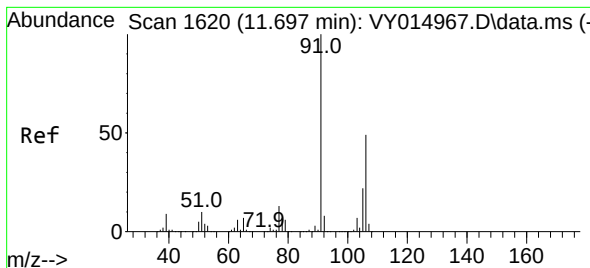
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#67
Ethyl Benzene
Concen: 270.976 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. -0.000 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05

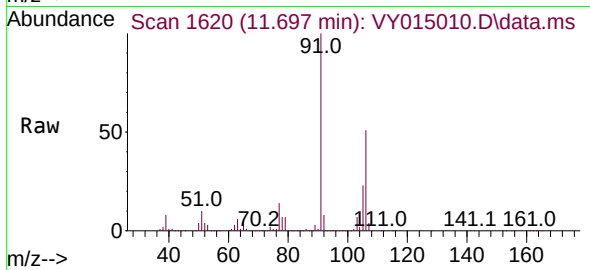
Tgt Ion: 91 Resp: 556267
Ion Ratio Lower Upper
91 100
106 31.6 24.6 36.8





#68
m/p-Xylenes
Concen: 194.029 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05

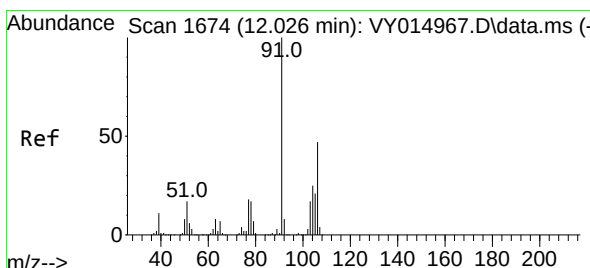
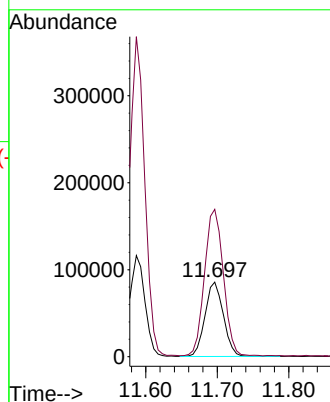
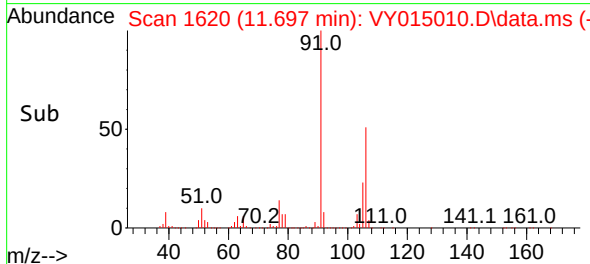
Instrument :
MSVOA_Y
ClientSampleId :
72-11935



Tgt Ion:106 Resp: 152372
Ion Ratio Lower Upper
106 100
91 202.9 166.1 249.1

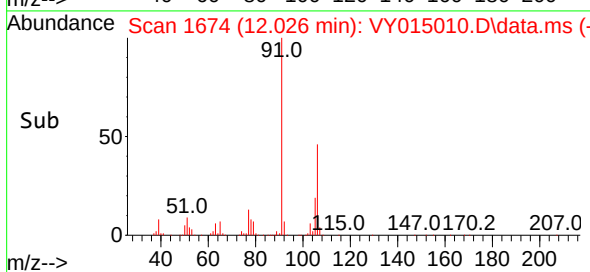
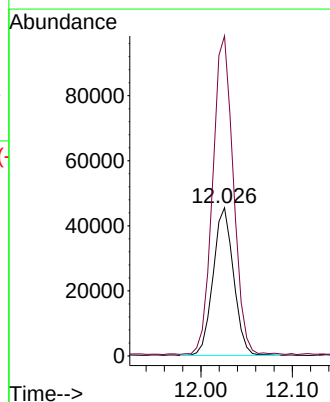
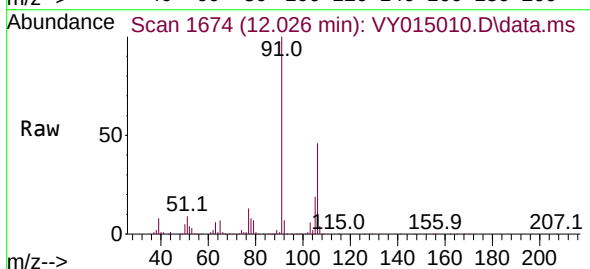
Manual Integrations
APPROVED

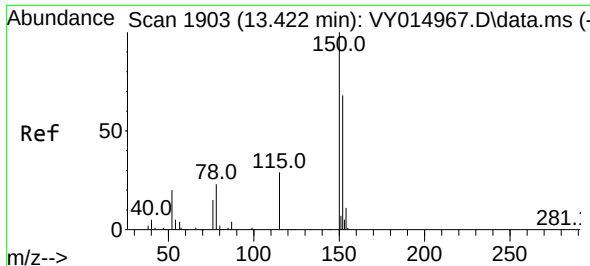
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#69
o-Xylene
Concen: 92.232 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.000 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05

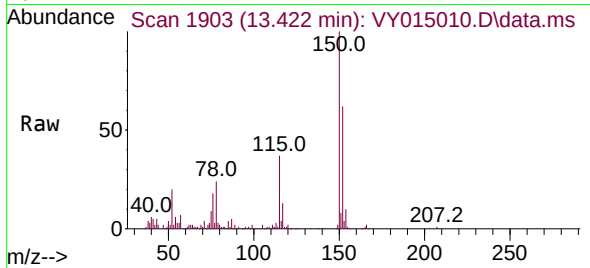
Tgt Ion:106 Resp: 70874
Ion Ratio Lower Upper
106 100
91 216.9 108.1 324.3





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. -0.000 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05

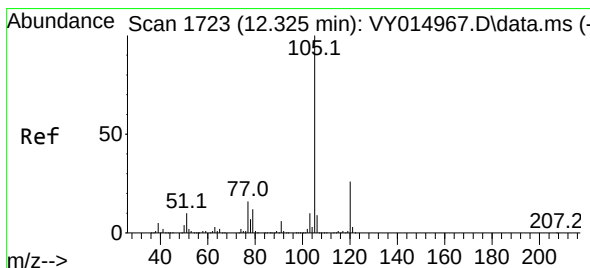
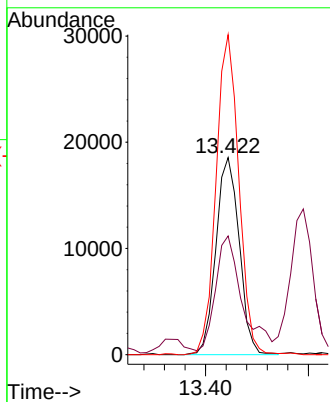
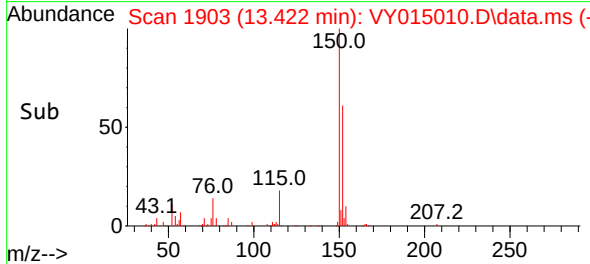
Instrument :
MSVOA_Y
ClientSampleId :
72-11935



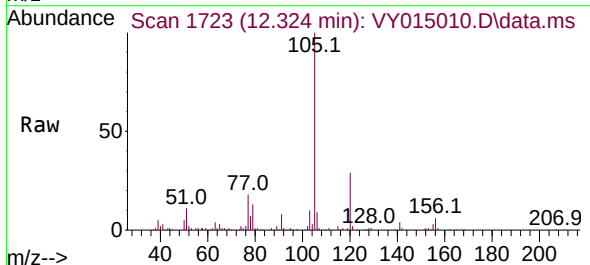
Tgt Ion:152 Resp: 2913
Ion Ratio Lower Upper
152 100
115 65.7 28.8 86.5
150 158.7 0.0 348.8

Manual Integrations
APPROVED

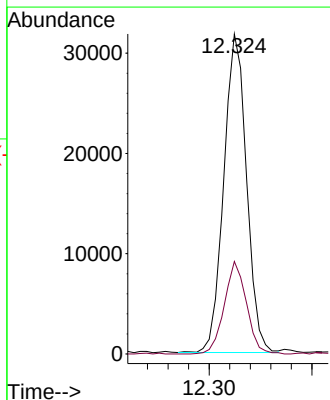
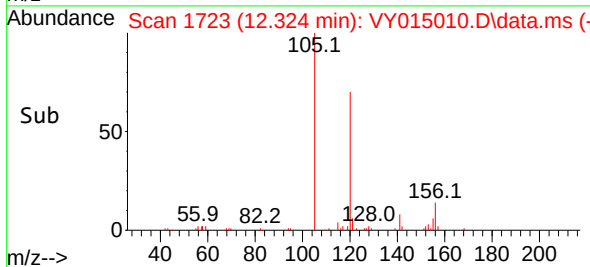
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023

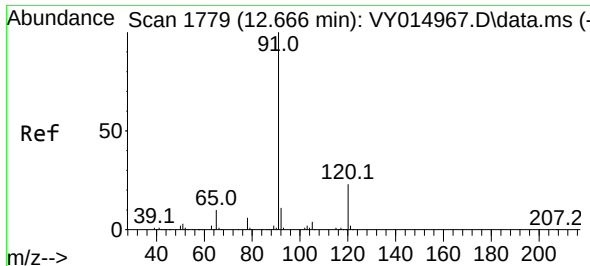


#73
Isopropylbenzene
Concen: 24.956 ug/l
RT: 12.324 min Scan# 1723
Delta R.T. -0.000 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05



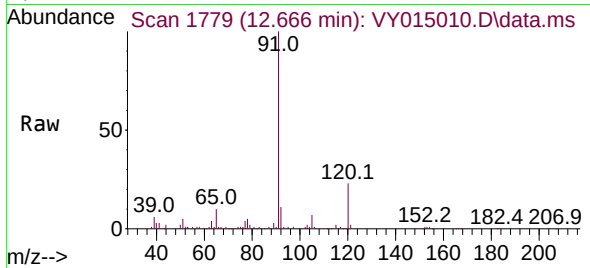
Tgt Ion:105 Resp: 48879
Ion Ratio Lower Upper
105 100
120 28.3 13.3 39.9





#78
n-propylbenzene
Concen: 14.470 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05

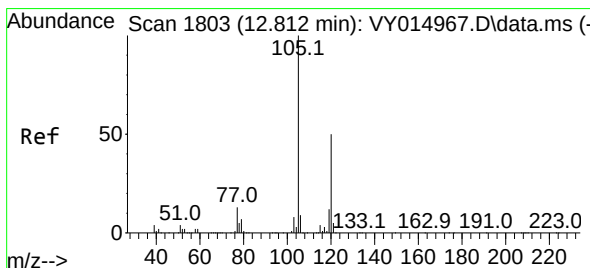
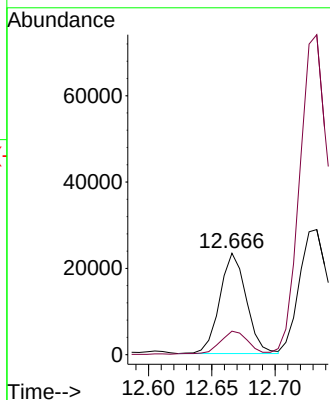
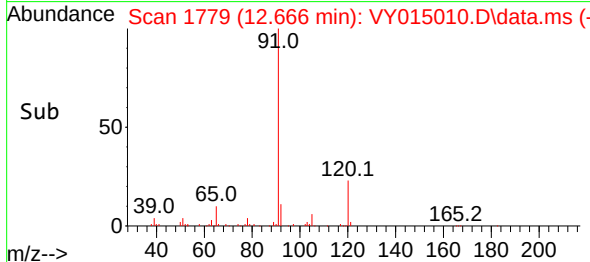
Instrument :
MSVOA_Y
ClientSampleId :
72-11935



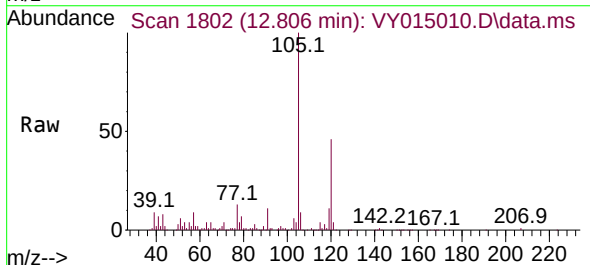
Tgt Ion: 91 Resp: 3389
Ion Ratio Lower Upper
91 100
120 27.0 11.5 34.4

Manual Integrations
APPROVED

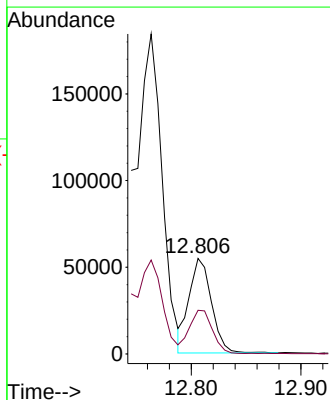
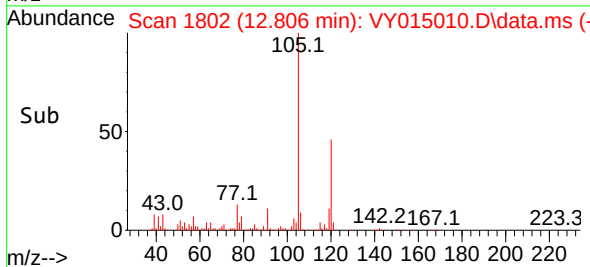
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023

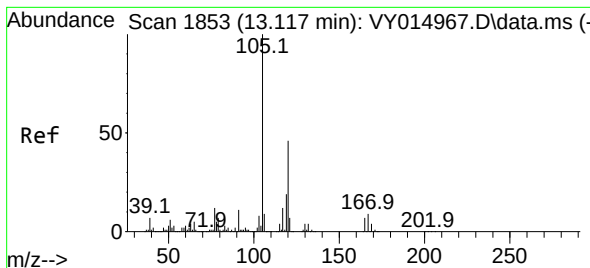


#80
1,3,5-Trimethylbenzene
Concen: 48.169 ug/l
RT: 12.806 min Scan# 1802
Delta R.T. -0.006 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05



Tgt Ion:105 Resp: 77747
Ion Ratio Lower Upper
105 100
120 48.9 23.9 71.7





#84

1,2,4-Trimethylbenzene

Concen: 175.554 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VY015010.D

Acq: 09 Aug 2023 17:05

Instrument :

MSVOA_Y

ClientSampleId :

72-11935

Tgt Ion:105 Resp: 28389

Ion Ratio Lower Upper

105 100

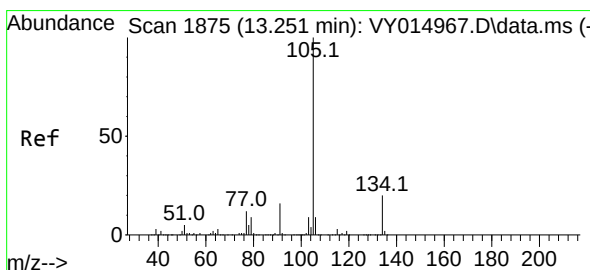
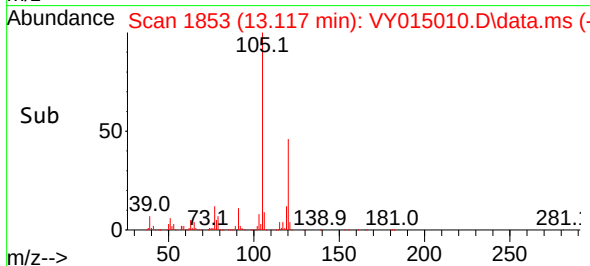
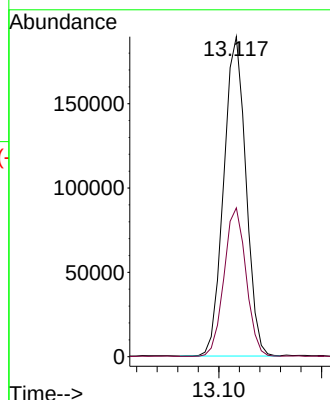
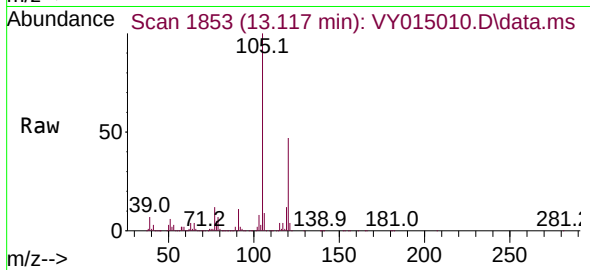
120 46.1 22.2 66.6

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 08/10/2023

Supervised By :Mahesh Dadoda 08/10/2023



#85

sec-Butylbenzene

Concen: 1.071 ug/l m

RT: 13.245 min Scan# 1874

Delta R.T. -0.006 min

Lab File: VY015010.D

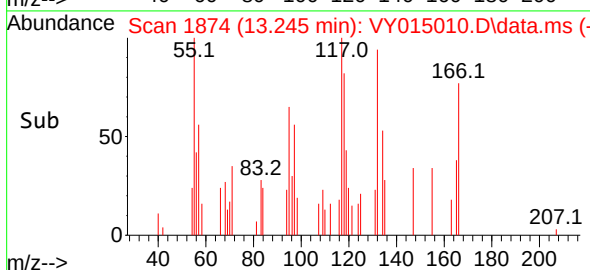
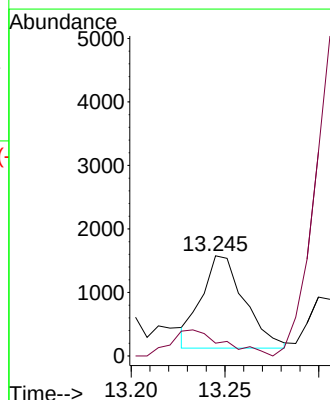
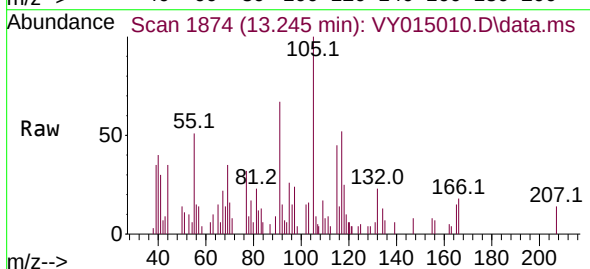
Acq: 09 Aug 2023 17:05

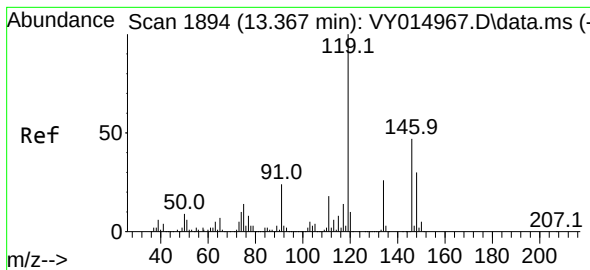
Tgt Ion:105 Resp: 2320

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#





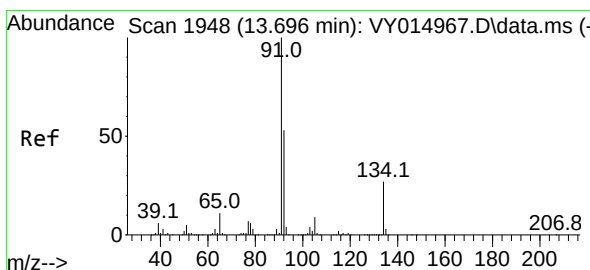
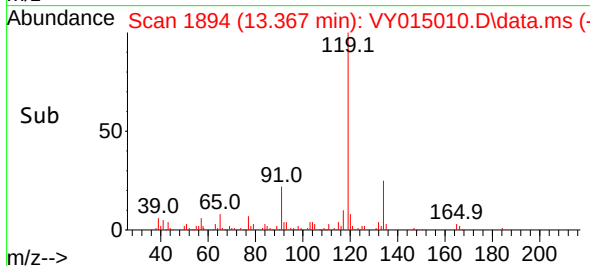
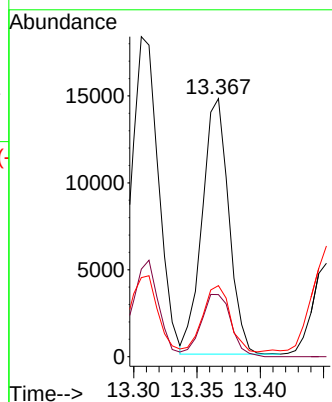
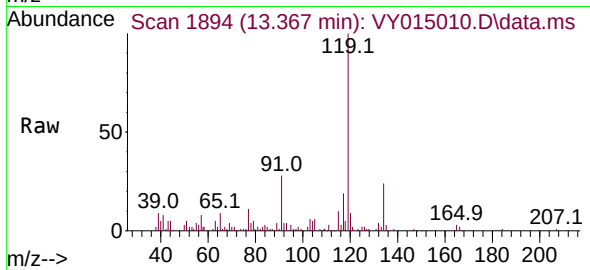
#86
p-Isopropyltoluene
Concen: 12.024 ug/l
RT: 13.367 min Scan# 119
Delta R.T. -0.000 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05

Instrument :
MSVOA_Y
ClientSampleId :
72-11935

Tgt Ion:119 Resp: 2156
Ion Ratio Lower Upper
119 100
134 27.3 13.3 39.8
91 0.0 12.4 37.4

Manual Integrations
APPROVED

Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#89
n-Butylbenzene
Concen: 5.187 ug/l m
RT: 13.678 min Scan# 1945
Delta R.T. -0.018 min
Lab File: VY015010.D
Acq: 09 Aug 2023 17:05

Tgt Ion: 91 Resp: 8743
Ion Ratio Lower Upper
91 100
92 264.4 25.4 76.0#
134 0.0 12.6 37.6#

