

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY080923\
 Data File : VY015009.D
 Acq On : 09 Aug 2023 16:42
 Operator : SY/MD
 Sample : 03930-01
 Misc : 4.99g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VNJ-207

Quant Time: Aug 10 01:47:40 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

Manual Integrations APPROVED

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

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

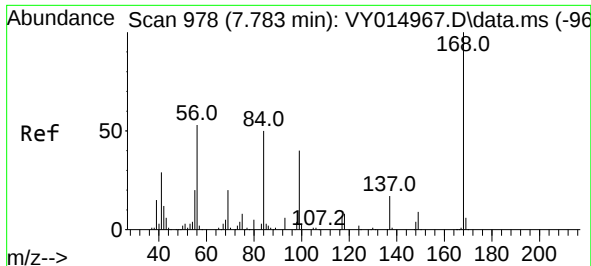
Internal Standards						
1) Pentafluorobenzene	7.783	168	12143	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	20624	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	22054	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	10986	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	8855	60.166	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 120.340%			
35) Dibromofluoromethane	7.710	113	5745	43.560	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 87.120%			
50) Toluene-d8	10.173	98	25558	50.913	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.820%			
62) 4-Bromofluorobenzene	12.477	95	12050	67.729	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 135.460%			
Target Compounds						Qvalue
10) Methyl Iodide	4.094	142	1511	13.267	ug/l #	87
16) Acetone	3.948	43	1134	24.709	ug/l #	83
20) Methylene Chloride	4.716	84	3670	9.144	ug/l #	80
31) Cyclohexane	7.777	56	706	1.210	ug/l #	74
39) Methylcyclohexane	9.173	83	1295	6.651	ug/l	95
40) Benzene	8.149	78	114008	236.459	ug/l	96
52) Toluene	10.246	92	4029	12.985	ug/l	100
67) Ethyl Benzene	11.587	91	1136814	1547.914	ug/l	99
68) m/p-Xylenes	11.697	106	311583	1109.034	ug/l	96
69) o-Xylene	12.026	106	146544	533.058	ug/l	99
73) Isopropylbenzene	12.325	105	107176	145.127	ug/l	100
78) n-propylbenzene	12.666	91	73364	83.059	ug/l	94
80) 1,3,5-Trimethylbenzene	12.806	105	181630	298.452	ug/l	99
84) 1,2,4-Trimethylbenzene	13.117	105	652981	1070.935	ug/l	98
85) sec-Butylbenzene	13.251	105	5217m	6.385	ug/l	
86) p-Isopropyltoluene	13.367	119	55647m	82.276	ug/l	
89) n-Butylbenzene	13.678	91	21368m	33.625	ug/l	

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

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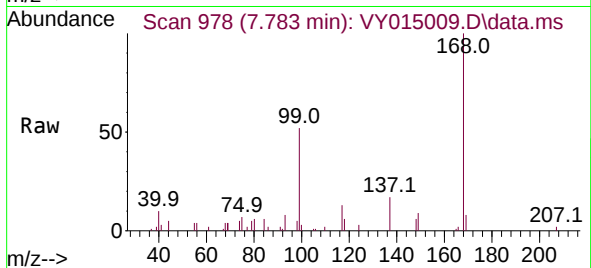
Chromatogram plot showing Abundance vs Time (min). The y-axis ranges from 0 to 1.5e+07. The x-axis ranges from 2.00 to 16.00. Major peaks are labeled with chemical names and retention times.

Retention Time (min)	Chemical Name
~4.0	Acetone, T
~4.1	Methyl Iodide, T
~4.8	Methylene Chloride, T
~7.8	Diethyl ether, S
~8.0	Diethyl ether, T
~8.1	Benzene-d6, S
~8.2	Benzene-d6, T
~8.8	1,4-Difluorobenzene, I
~9.3	Methylcyclohexane, T
~10.2	Toluene, S
~10.3	Toluene, T
~11.6	Chlorobenzene-d5, I
~11.7	Chlorobenzene-d5, T
~11.8	m/p-Xylenes, I
~11.9	m/p-Xylenes, T
~12.1	o-Xylene, T
~12.4	Isopropylbenzene, T
~12.5	4-Bromofluorobenzene, S
~12.6	n-Propylbenzene, I
~12.7	n-Propylbenzene, T
~12.8	1,3,5-Trimethylbenzene, T
~13.1	1,2,4-Trimethylbenzene, T
~13.2	sec-Butylbenzene, I
~13.3	sec-Butylbenzene, T
~13.4	1,2,4-Trimethylbenzene-d4, I
~13.5	1,2,4-Trimethylbenzene-d4, T
~13.6	n-Butylbenzene, I
~13.7	n-Butylbenzene, T
~15.1	Peak (unlabeled)
~16.3	Peak (unlabeled)
~16.5	Peak (unlabeled)



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42

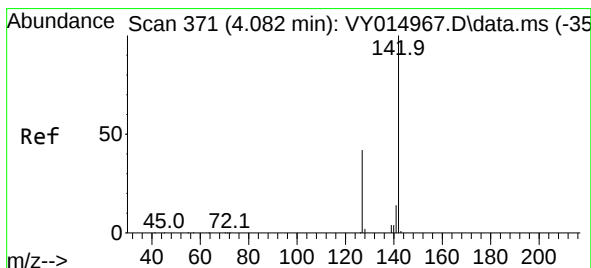
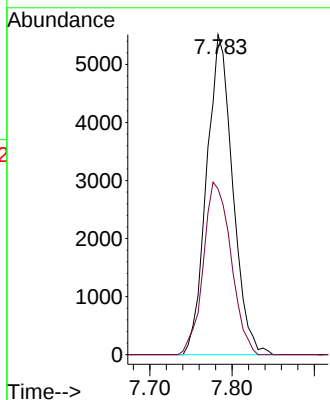
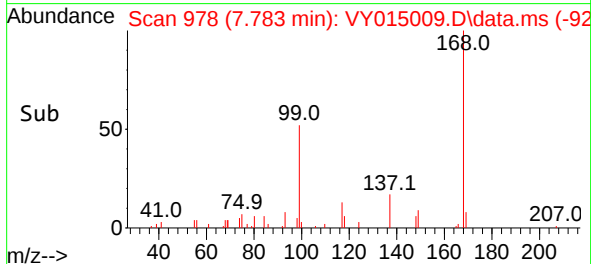
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-207



Tgt Ion:168 Resp: 1214
Ion Ratio Lower Upper
168 100
99 51.8 43.4 65.0

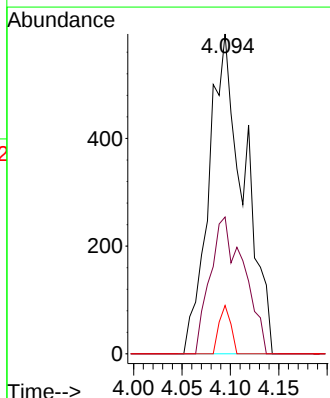
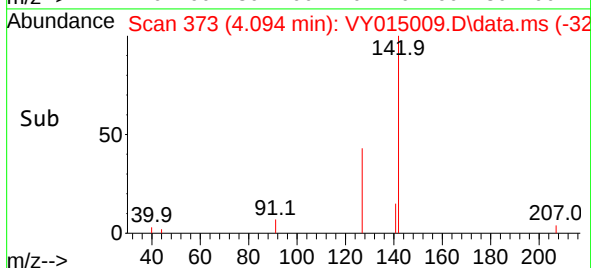
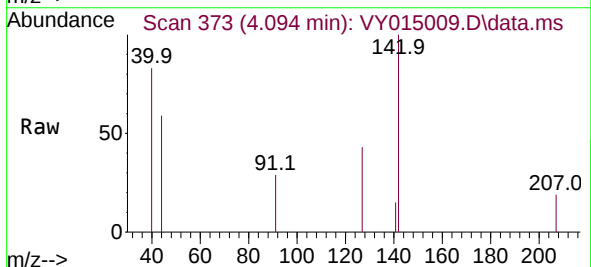
Manual Integrations
APPROVED

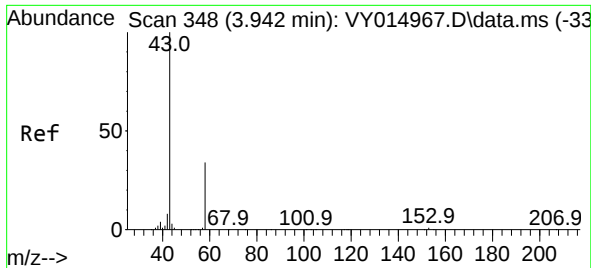
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#10
Methyl Iodide
Concen: 13.267 ug/l
RT: 4.094 min Scan# 373
Delta R.T. 0.012 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42

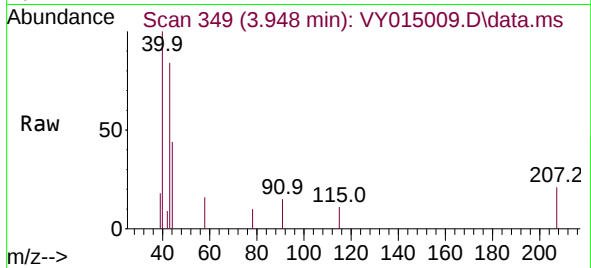
Tgt Ion:142 Resp: 1511
Ion Ratio Lower Upper
142 100
127 40.8 37.6 56.4
141 5.0 11.8 17.8#





#16
Acetone
Concen: 24.709 ug/l
RT: 3.948 min Scan# 348
Delta R.T. 0.006 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42

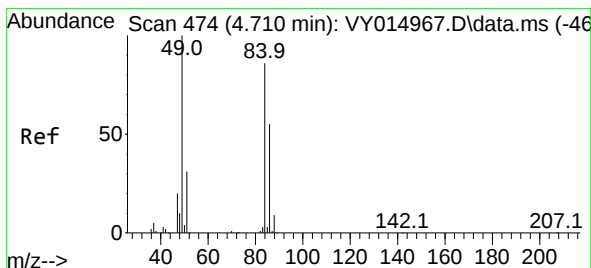
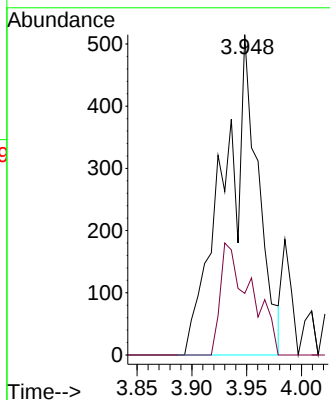
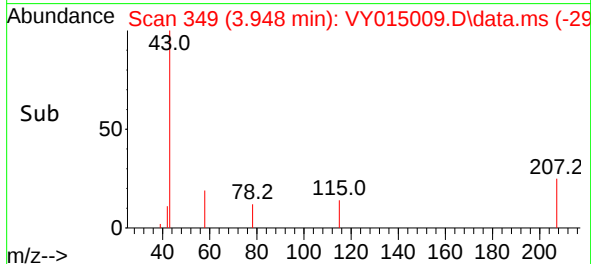
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-207



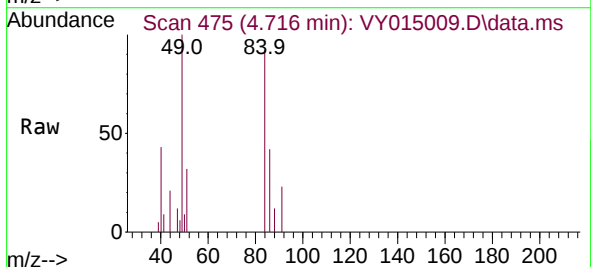
Tgt Ion: 43 Resp: 1134
Ion Ratio Lower Upper
43 100
58 19.2 22.7 34.1

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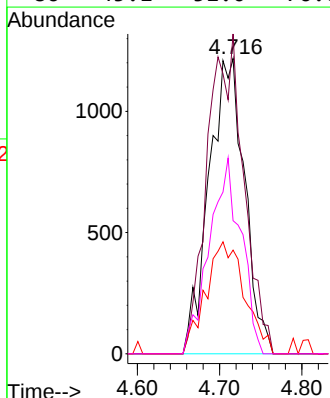
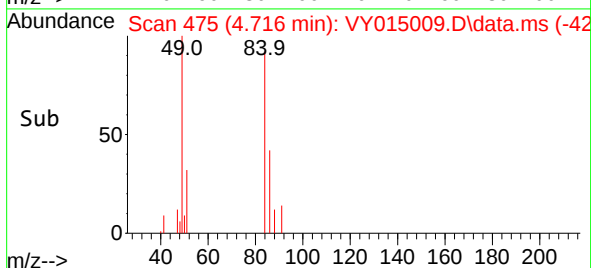
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023

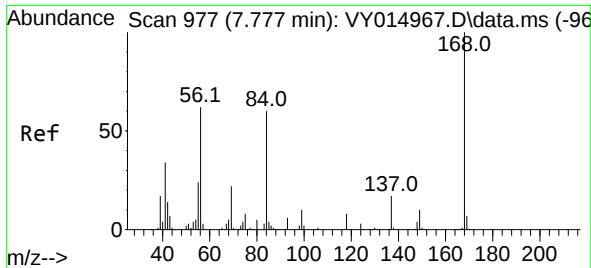


#20
Methylene Chloride
Concen: 9.144 ug/l
RT: 4.716 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42



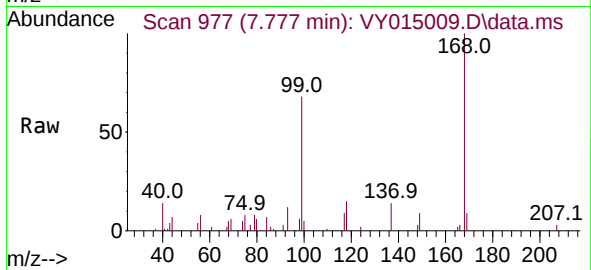
Tgt Ion: 84 Resp: 3670
Ion Ratio Lower Upper
84 100
49 108.3 106.9 160.3
51 35.1 33.2 49.8
86 45.1 51.0 76.6





#31
Cyclohexane
Concen: 1.210 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42

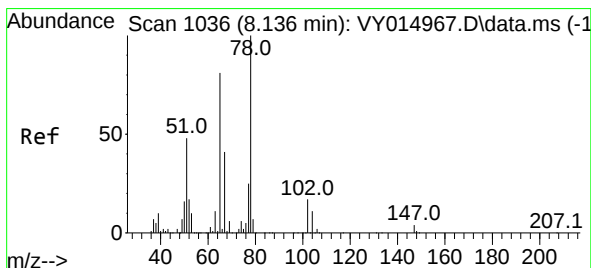
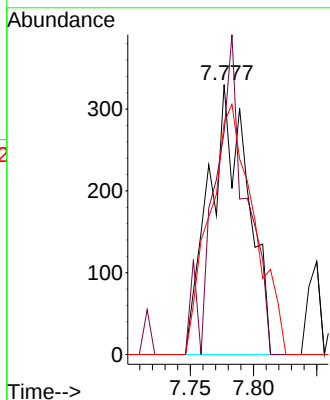
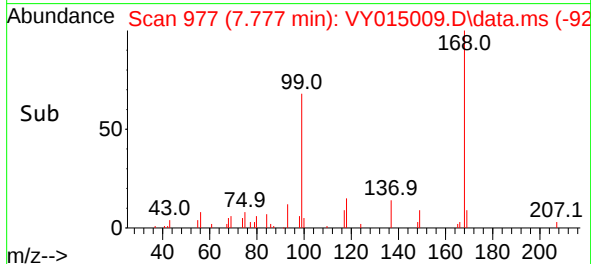
Instrument :
MSVOA_Y
ClientSampleId :
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Tgt Ion: 56 Resp: 700
Ion Ratio Lower Upper
56 100
69 82.4 27.8 41.6
84 85.8 66.4 99.6

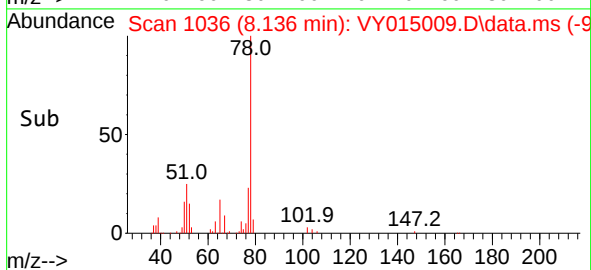
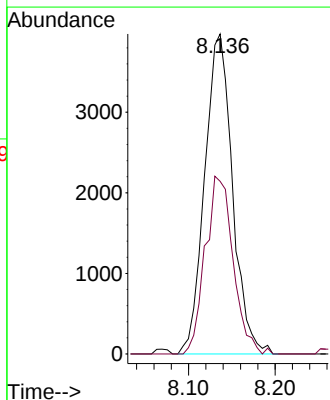
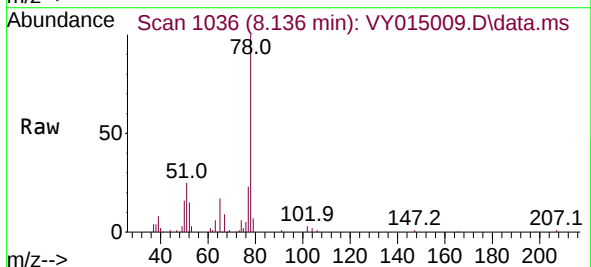
Manual Integrations
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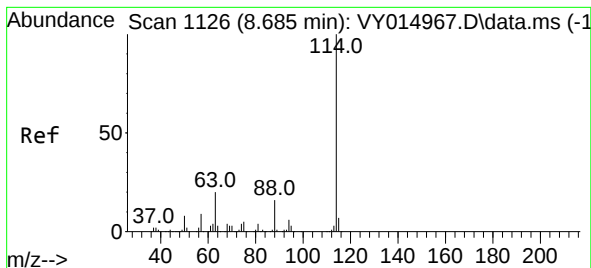
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#33
1,2-Dichloroethane-d4
Concen: 60.166 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42

Tgt Ion: 65 Resp: 8855
Ion Ratio Lower Upper
65 100
67 55.6 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: VY015009.D

Acq: 09 Aug 2023 16:42

Instrument :

MSVOA_Y

ClientSampleId :

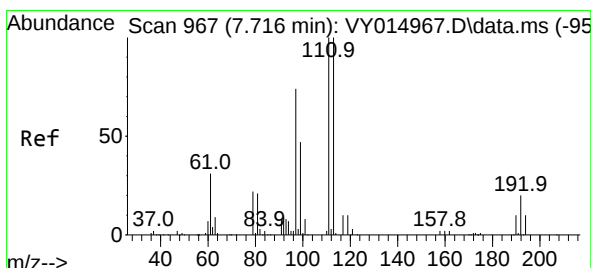
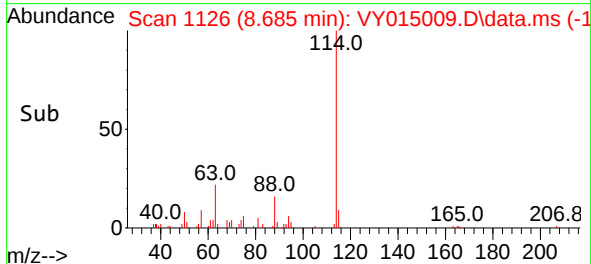
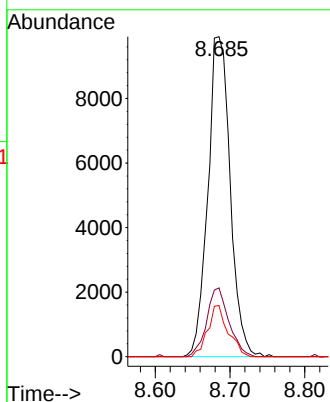
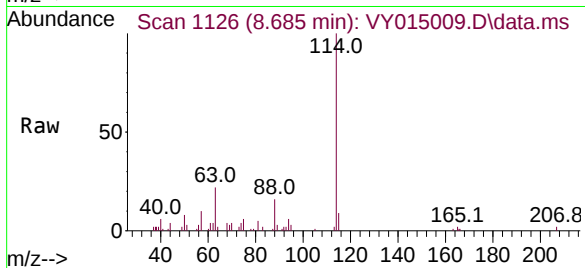
VNJ-207

Tgt Ion:	114	Resp:	20624
Ion Ratio	Lower	Upper	
114	100		
63	21.5	0.0	42.4
88	16.0	0.0	30.6

Manual Integrations

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



#35

Dibromofluoromethane

Concen: 43.560 ug/l

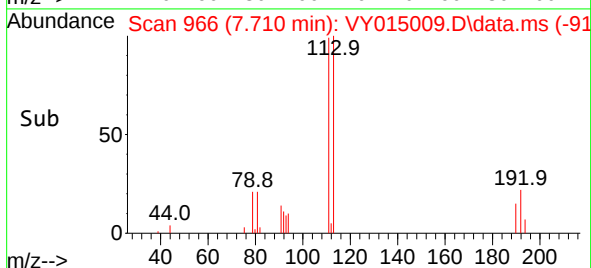
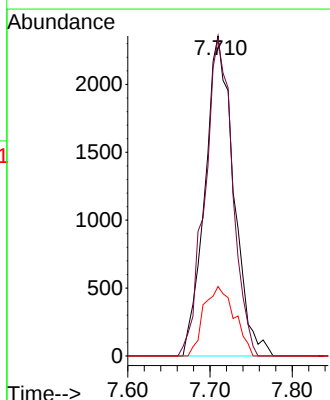
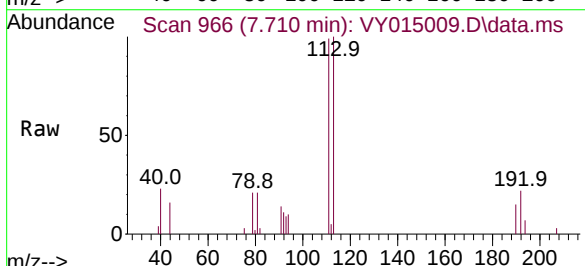
RT: 7.710 min Scan# 966

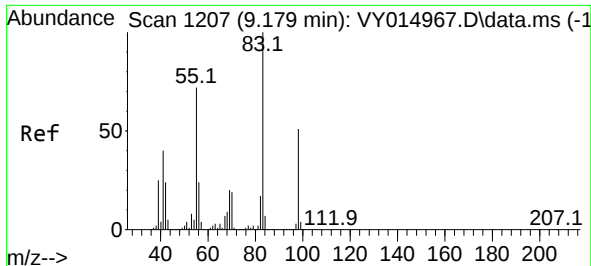
Delta R.T. -0.006 min

Lab File: VY015009.D

Acq: 09 Aug 2023 16:42

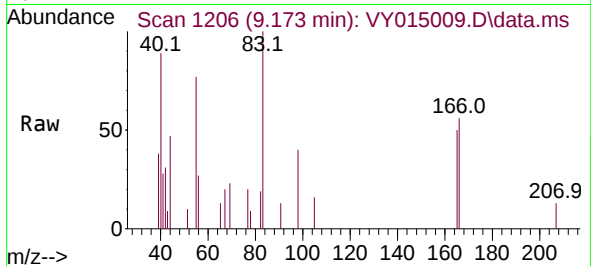
Tgt Ion:	113	Resp:	5745
Ion Ratio	Lower	Upper	
113	100		
111	95.6	81.3	121.9
192	23.0	16.9	25.3





#39
Methylcyclohexane
Concen: 6.651 ug/l
RT: 9.173 min Scan# 1206
Delta R.T. -0.006 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42

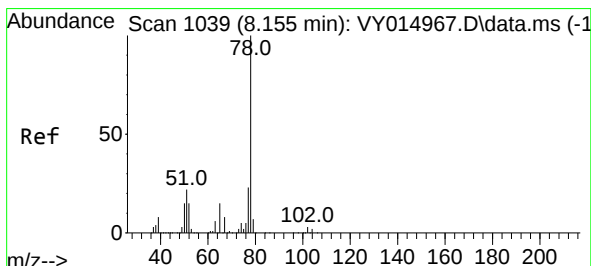
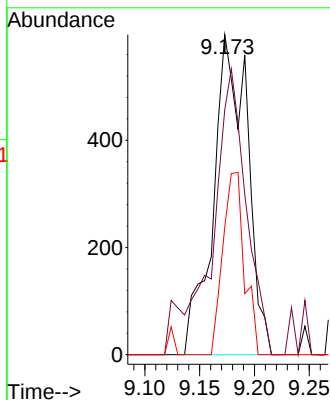
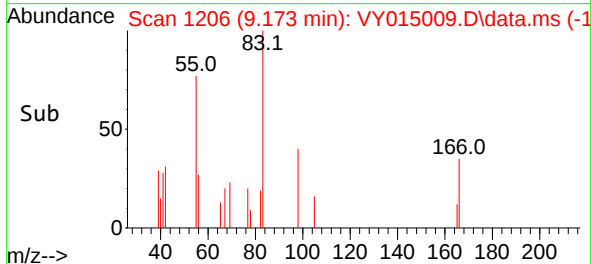
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-207



Tgt Ion: 83	Resp: 129
Ion Ratio	Lower Upper
83	100
55	76.5 63.0 94.4
98	39.9 37.4 56.2

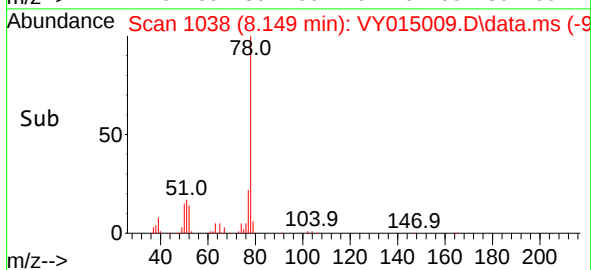
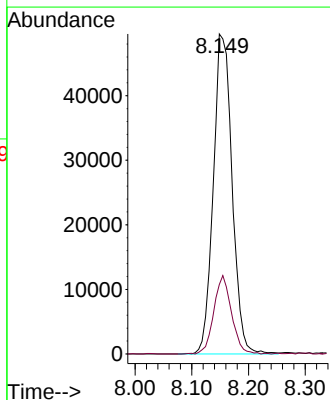
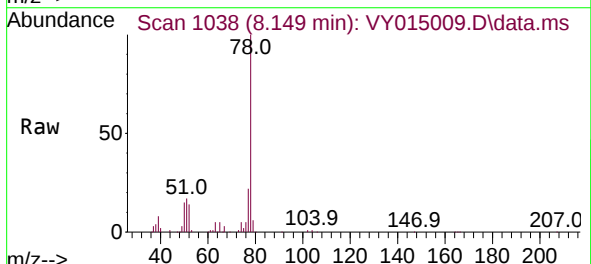
Manual Integrations
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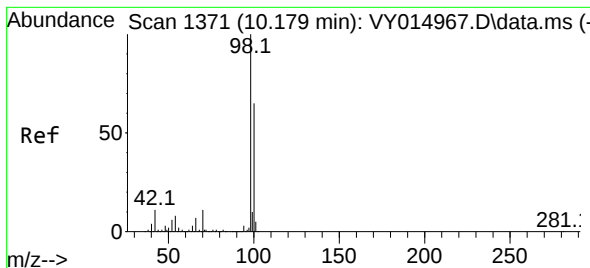
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#40
Benzene
Concen: 236.459 ug/l
RT: 8.149 min Scan# 1038
Delta R.T. -0.006 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42

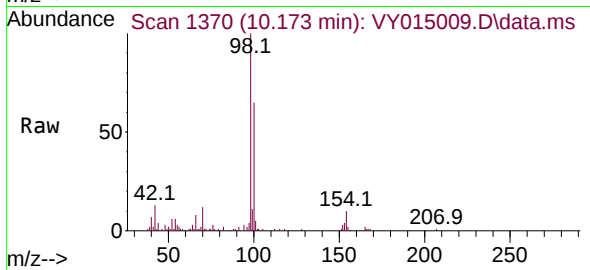
Tgt Ion: 78	Resp: 114008
Ion Ratio	Lower Upper
78	100
77	21.7 19.0 28.6





#50
Toluene-d8
Concen: 50.913 ug/l
RT: 10.173 min Scan# 1371
Delta R.T. -0.006 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42

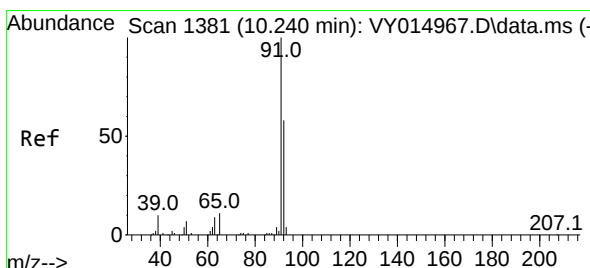
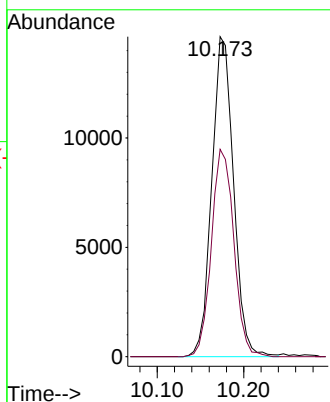
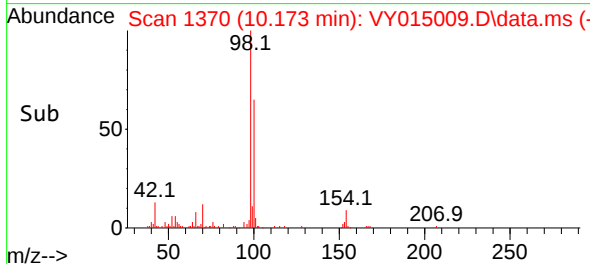
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-207



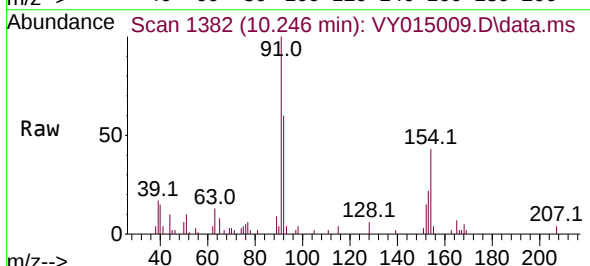
Tgt Ion: 98 Resp: 2555
Ion Ratio Lower Upper
98 100
100 66.8 50.1 75.1

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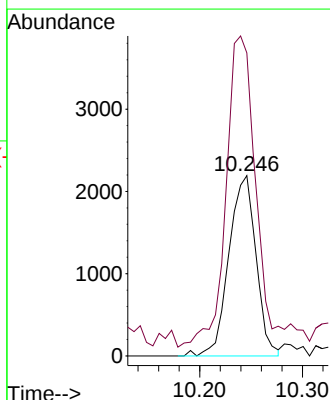
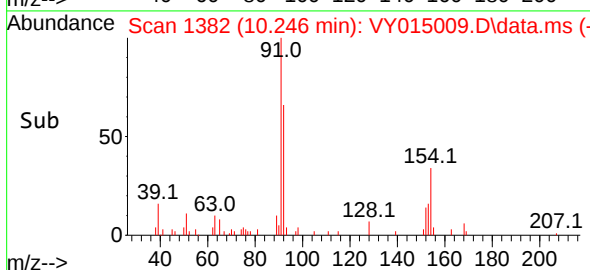
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023

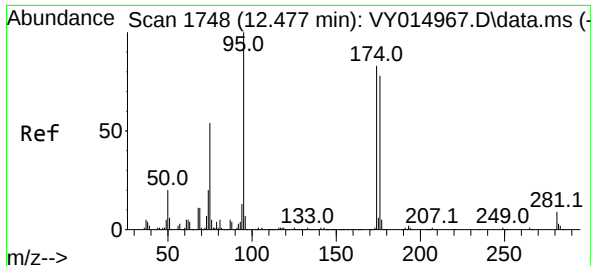


#52
Toluene
Concen: 12.985 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. 0.006 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42



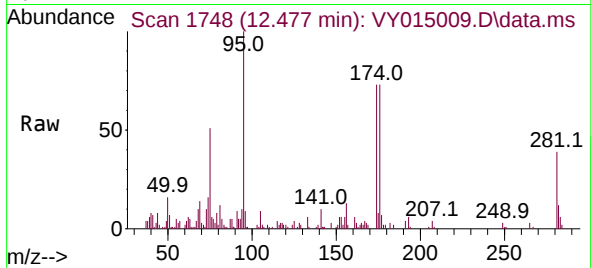
Tgt Ion: 92 Resp: 4029
Ion Ratio Lower Upper
92 100
91 179.4 143.8 215.6





#62
4-Bromofluorobenzene
Concen: 67.729 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42

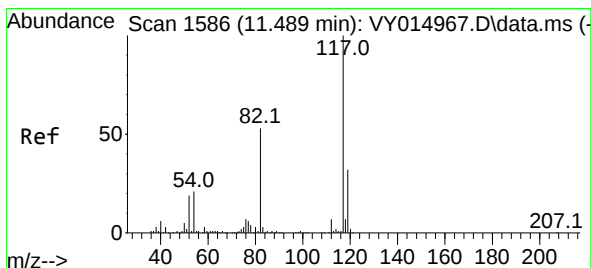
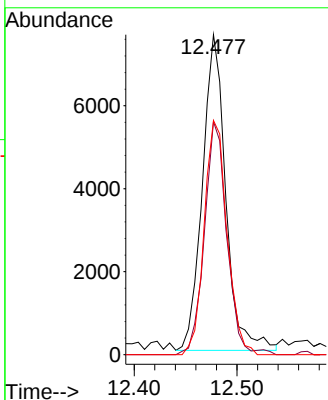
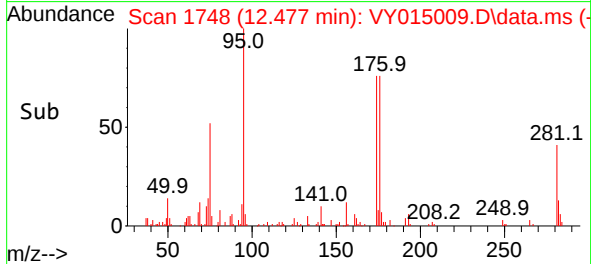
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-207



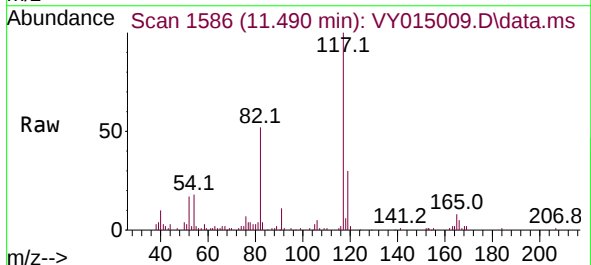
Tgt Ion: 95 Resp: 12050
Ion Ratio Lower Upper
95 100
174 70.6 0.0 178.2
176 72.5 0.0 173.8

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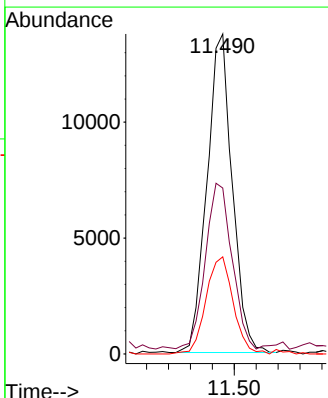
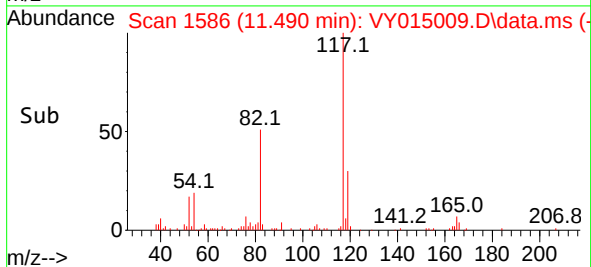
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023

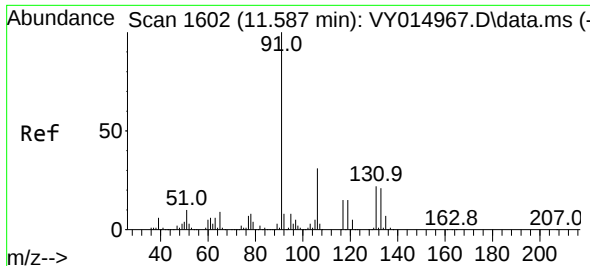


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42



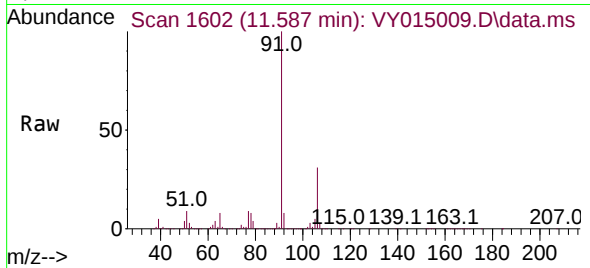
Tgt Ion:117 Resp: 22054
Ion Ratio Lower Upper
117 100
82 50.5 43.4 65.0
119 30.1 26.3 39.5





#67
Ethyl Benzene
Concen: 1547.914 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. 0.000 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42

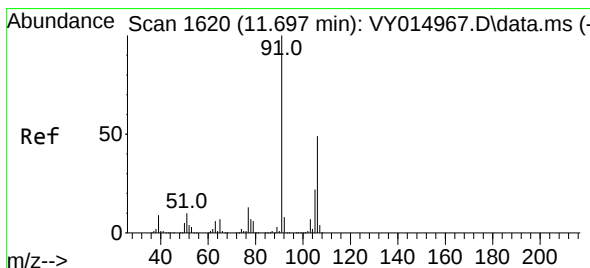
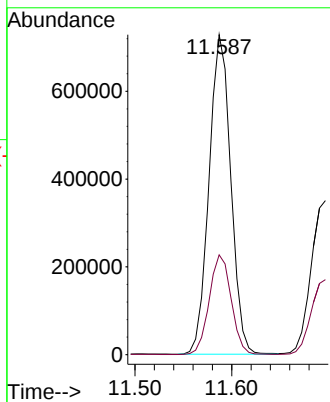
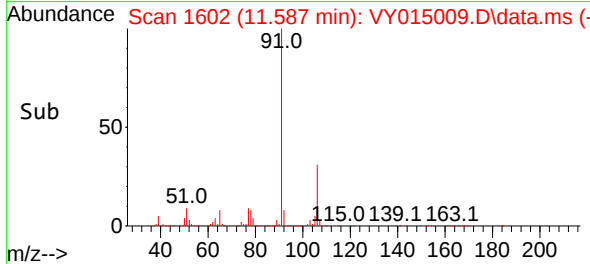
Instrument :
MSVOA_Y
ClientSampleId :
VNJ-207



Tgt Ion: 91 Resp: 1136814
Ion Ratio Lower Upper
91 100
106 31.2 24.6 36.8

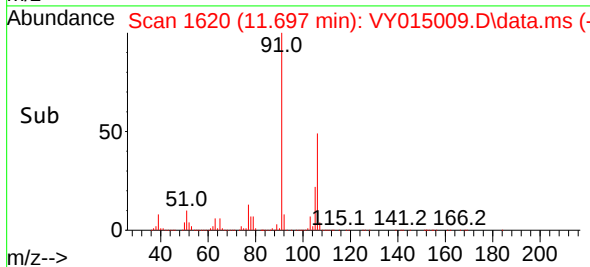
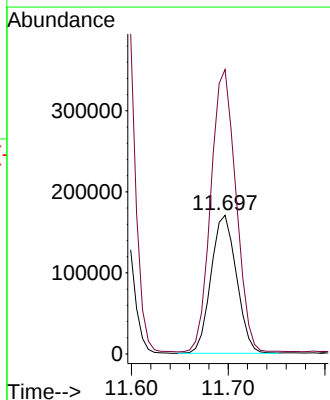
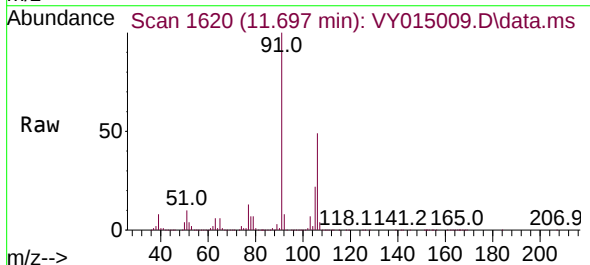
Manual Integrations
APPROVED

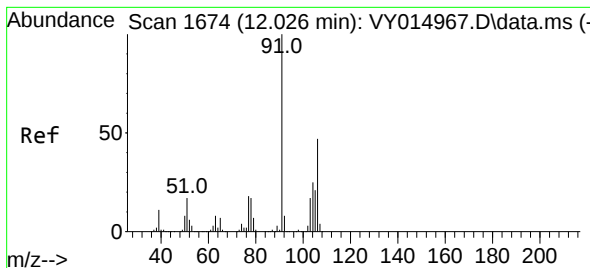
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#68
m/p-Xylenes
Concen: 1109.034 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42

Tgt Ion:106 Resp: 311583
Ion Ratio Lower Upper
106 100
91 201.9 166.1 249.1





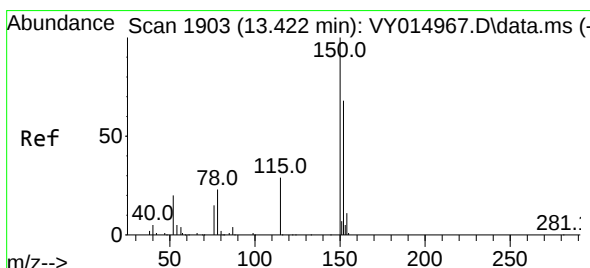
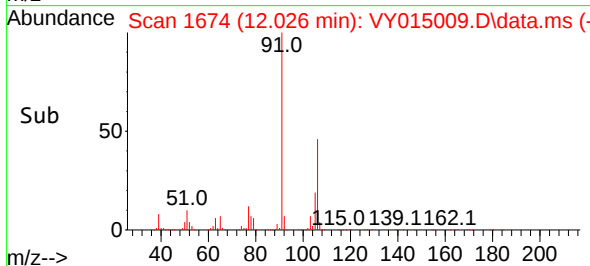
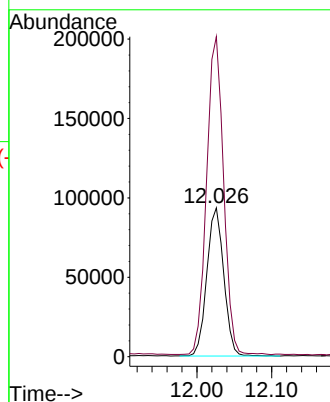
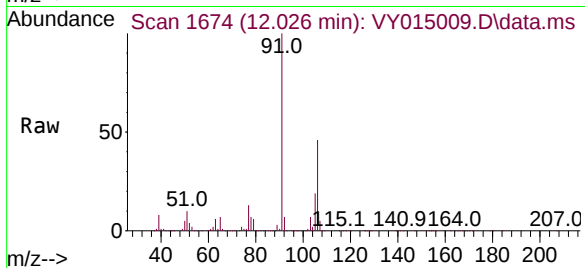
#69
o-Xylene
Concen: 533.058 ug/l
RT: 12.026 min Scan# 106
Delta R.T. 0.000 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42

Instrument :
MSVOA_Y
ClientSampleId :
VNJ-207

Tgt Ion:106 Resp: 146544
Ion Ratio Lower Upper
106 100
91 214.9 108.1 324.3

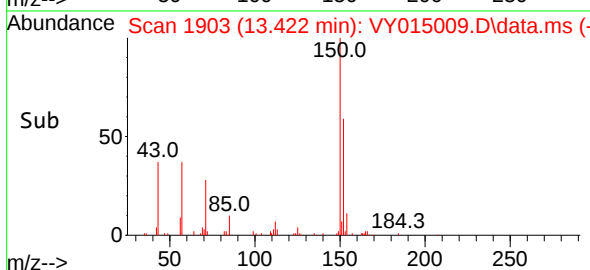
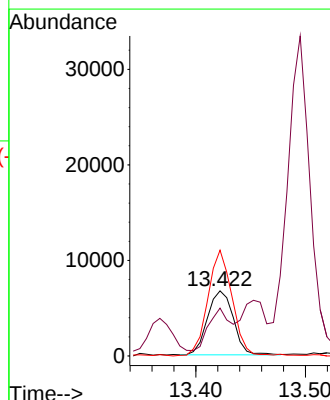
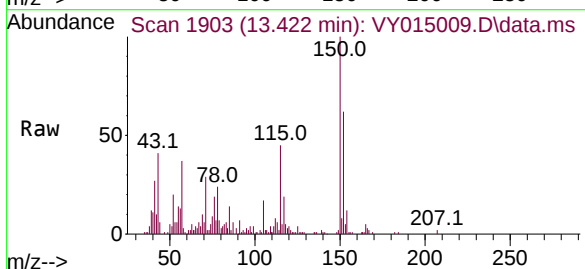
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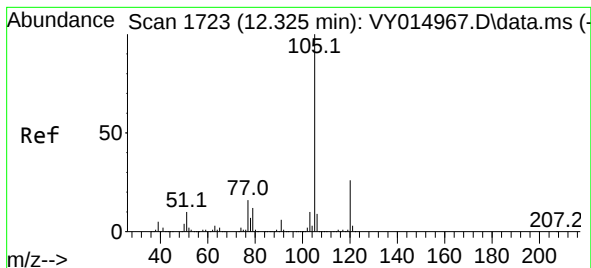
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42

Tgt Ion:152 Resp: 10986
Ion Ratio Lower Upper
152 100
115 0.0 28.8 86.5#
150 154.9 0.0 348.8





#73

Isopropylbenzene

Concen: 145.127 ug/l

RT: 12.325 min Scan# 1723

Delta R.T. 0.000 min

Lab File: VY015009.D

Acq: 09 Aug 2023 16:42

Instrument :

MSVOA_Y

ClientSampleId :

VNJ-207

Tgt Ion:105 Resp: 107170

Ion Ratio Lower Upper

105 100

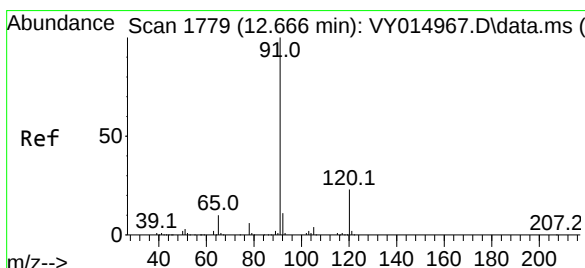
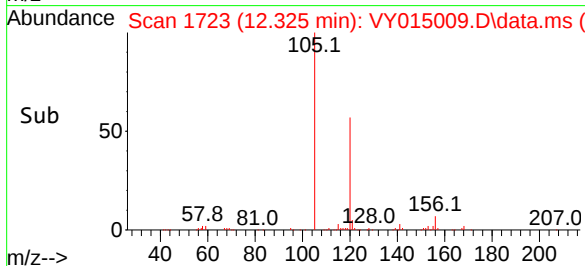
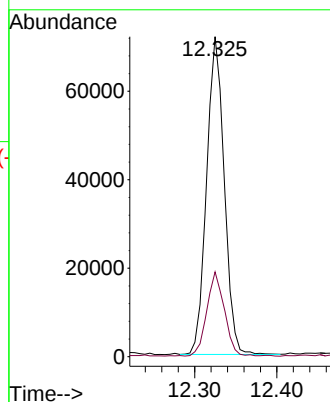
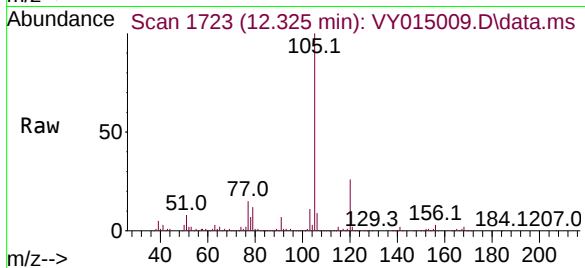
120 26.4 13.3 39.9

Manual Integrations

APPROVED

Reviewed By :Romaben Patel 08/10/2023

Supervised By :Mahesh Dadoda 08/10/2023



#78

n-propylbenzene

Concen: 83.059 ug/l

RT: 12.666 min Scan# 1779

Delta R.T. 0.000 min

Lab File: VY015009.D

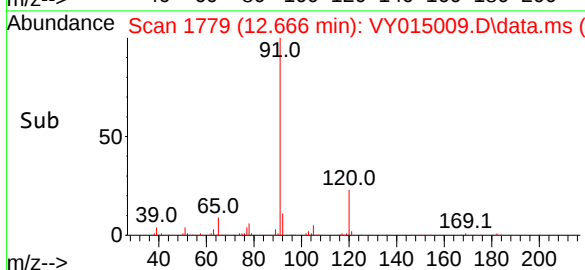
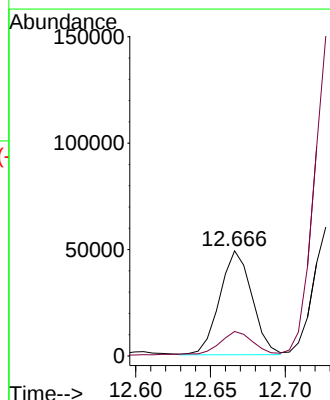
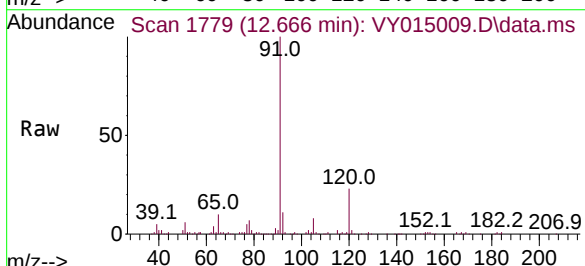
Acq: 09 Aug 2023 16:42

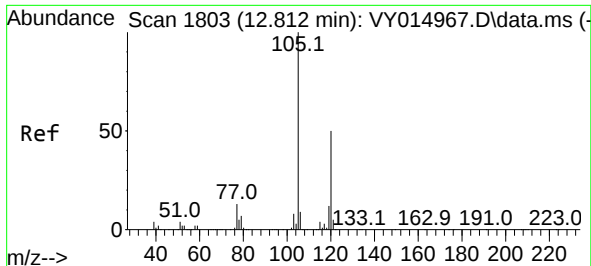
Tgt Ion: 91 Resp: 73364

Ion Ratio Lower Upper

91 100

120 25.6 11.5 34.4





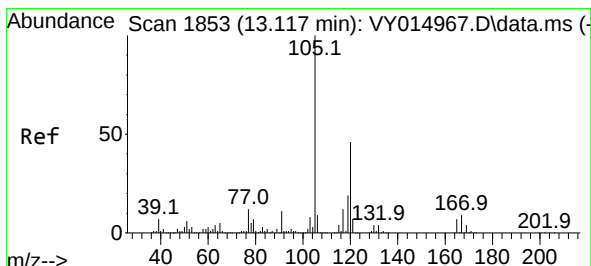
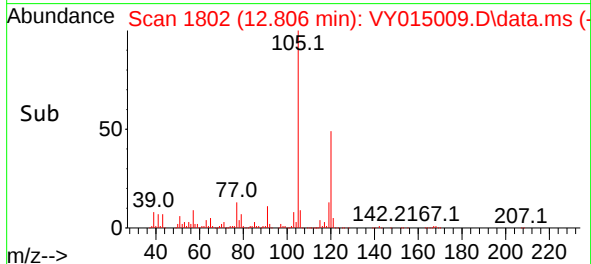
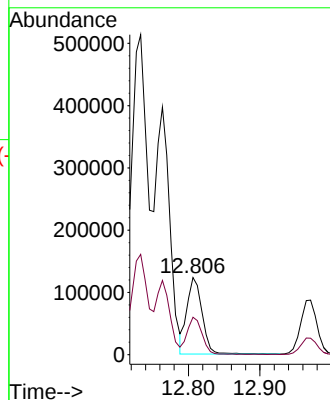
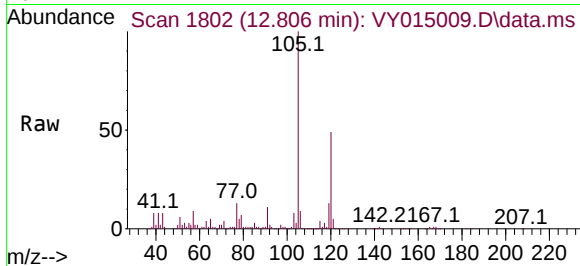
#80
1,3,5-Trimethylbenzene
Concen: 298.452 ug/l
RT: 12.806 min Scan# 1803
Delta R.T. -0.006 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42

Instrument :
MSVOA_Y
ClientSampleId :
VNJ-207

Tgt Ion:105 Resp: 181630
Ion Ratio Lower Upper
105 100
120 47.3 23.9 71.7

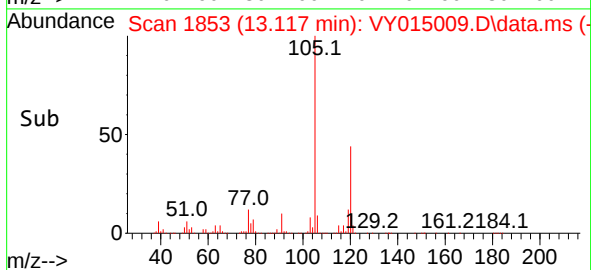
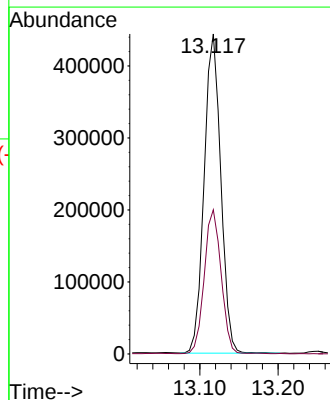
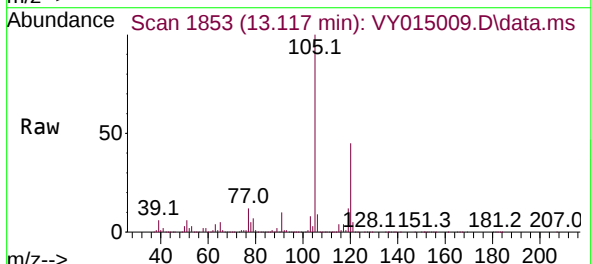
Manual Integrations
APPROVED

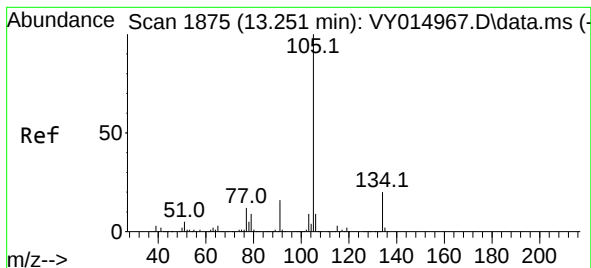
Reviewed By :Romaben Patel 08/10/2023
Supervised By :Mahesh Dadoda 08/10/2023



#84
1,2,4-Trimethylbenzene
Concen: 1070.935 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY015009.D
Acq: 09 Aug 2023 16:42

Tgt Ion:105 Resp: 652981
Ion Ratio Lower Upper
105 100
120 45.7 22.2 66.6





#85

sec-Butylbenzene

Concen: 6.385 ug/l m

RT: 13.251 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VY015009.D

Acq: 09 Aug 2023 16:42

Instrument :

MSVOA_Y

ClientSampleId :

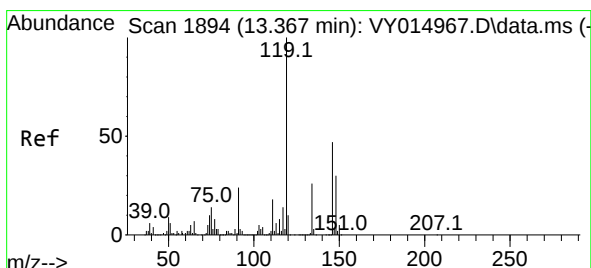
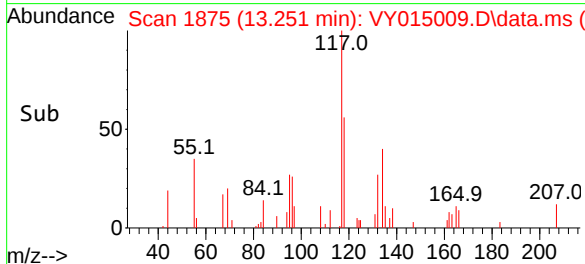
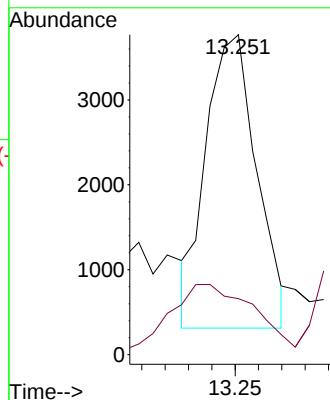
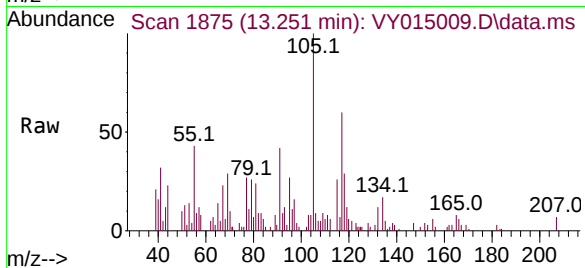
VNJ-207

Tgt Ion:105 Resp: 521
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.6

Manual Integrations

APPROVED

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



#86

p-Isopropyltoluene

Concen: 82.276 ug/l m

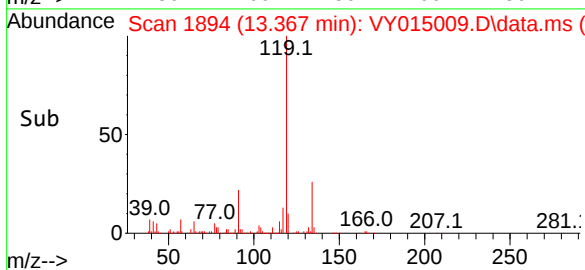
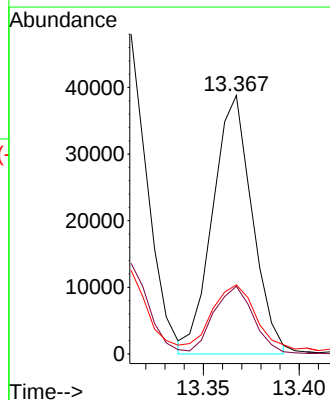
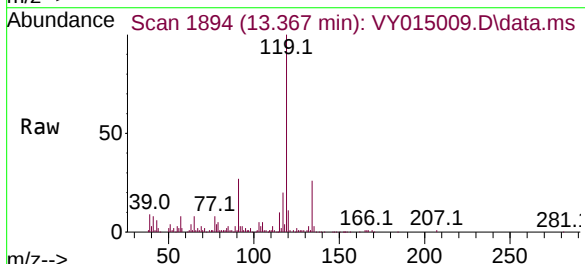
RT: 13.367 min Scan# 1894

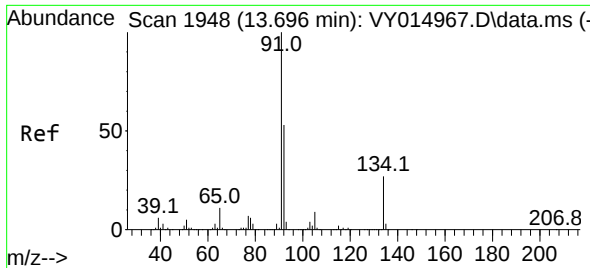
Delta R.T. 0.000 min

Lab File: VY015009.D

Acq: 09 Aug 2023 16:42

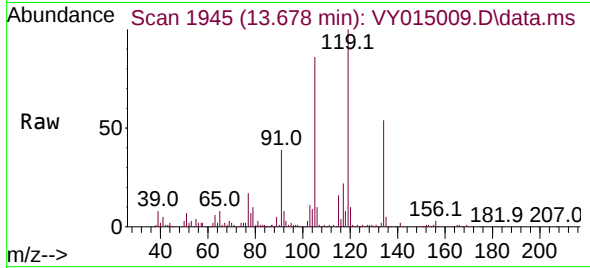
Tgt Ion:119 Resp: 55647
 Ion Ratio Lower Upper
 119 100
 134 37.6 13.3 39.8
 91 30.9 12.4 37.4





#89
 n-Butylbenzene
 Concen: 33.625 ug/l m
 RT: 13.678 min Scan# 1945
 Delta R.T. -0.018 min
 Lab File: VY015009.D
 Acq: 09 Aug 2023 16:42

Instrument :
 MSVOA_Y
 ClientSampleId :
 VNJ-207



Tgt Ion: 91	Resp: 2136
Ion Ratio	Lower Upper
91	100
92	267.0 25.4 76.0
134	0.0 12.6 37.6

Manual Integrations
 APPROVED

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

