

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086954.D
 Acq On : 11 Jun 2025 17:19
 Operator : JC\MD
 Sample : Q2231-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-14-20250604

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/12/2025
 Supervised By :Semsettin Yesilyurt 06/12/2025

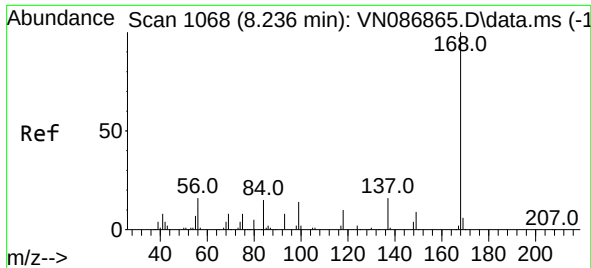
Quant Time: Jun 12 01:36:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	206605	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	392074	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	351871	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	159705	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	143749	51.966	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.940%			
35) Dibromofluoromethane	8.177	113	117356	50.508	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.020%			
50) Toluene-d8	10.571	98	484662	52.691	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.380%			
62) 4-Bromofluorobenzene	12.847	95	175059	51.226	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.460%			
Target Compounds					Qvalue	
16) Acetone	4.459	43	4761	3.246	ug/l	98
39) Methylcyclohexane	9.606	83	20471	4.316	ug/l	97
40) Benzene	8.612	78	12250	1.082	ug/l	99
44) Trichloroethene	9.359	130	823	0.307	ug/l	65
52) Toluene	10.630	92	5049	0.730	ug/l	94
67) Ethyl Benzene	11.965	91	157745	11.801	ug/l	97
68) m/p-Xylenes	12.071	106	4563	0.892	ug/l	96
69) o-Xylene	12.394	106	12786	2.609	ug/l	86
70) Styrene	12.418	104	6971	0.831	ug/l #	73
73) Isopropylbenzene	12.694	105	1081176	92.927	ug/l	99
78) n-propylbenzene	13.035	91	1190583	84.205	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	205176	21.360	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	5997493	622.641	ug/l	99
86) p-Isopropyltoluene	13.729	119	169301m	16.039	ug/l	
89) n-Butylbenzene	14.053	91	97931m	9.578	ug/l	

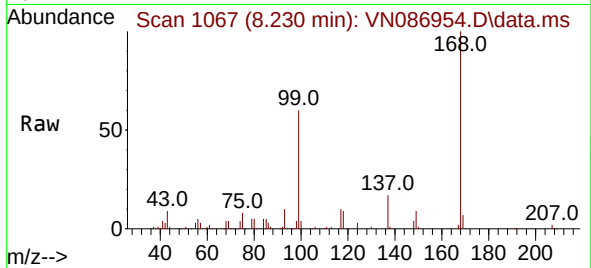
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

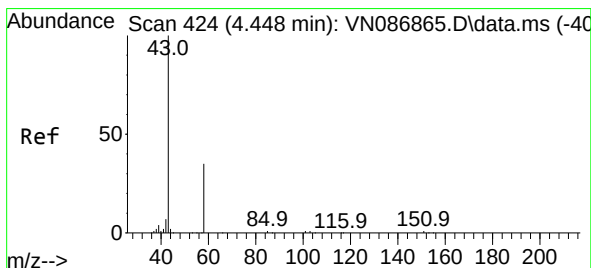
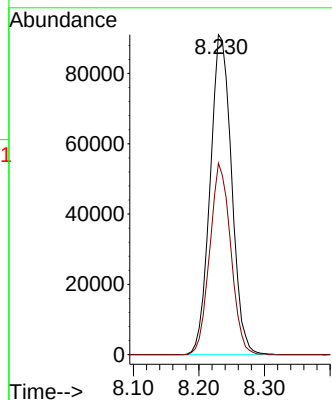
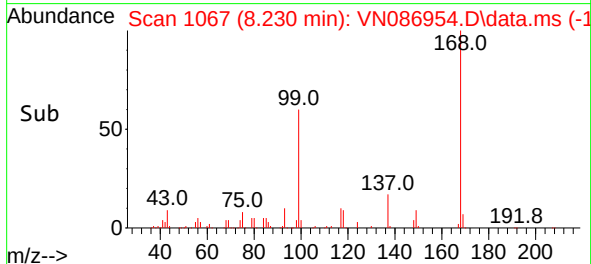
Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604



Tgt Ion:168 Resp: 206609
Ion Ratio Lower Upper
168 100
99 59.9 49.1 73.7

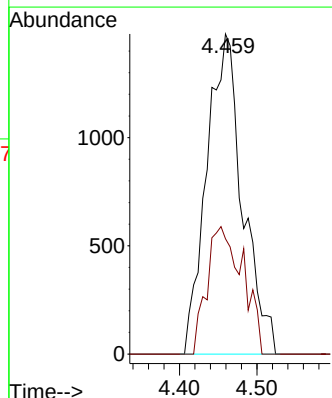
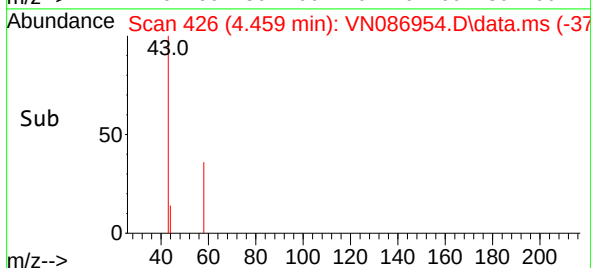
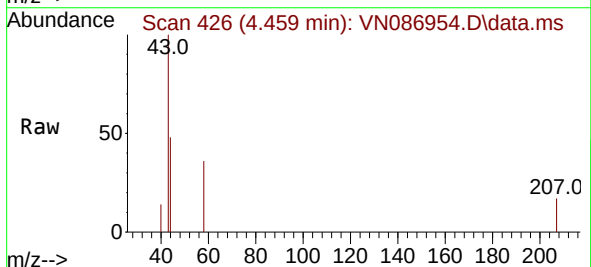
Manual Integrations
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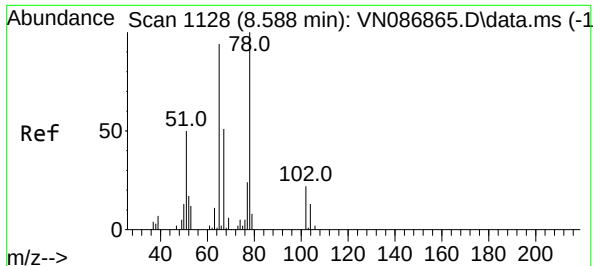
Reviewed By :John Carlone 06/12/2025
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#16
Acetone
Concen: 3.246 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.012 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

Tgt Ion: 43 Resp: 4761
Ion Ratio Lower Upper
43 100
58 36.0 28.0 42.0





#33

1,2-Dichloroethane-d4

Concen: 51.966 ug/l

RT: 8.589 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VN086954.D

Acq: 11 Jun 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

MW-14-20250604

Tgt Ion: 65 Resp: 143749

Ion Ratio Lower Upper

65 100

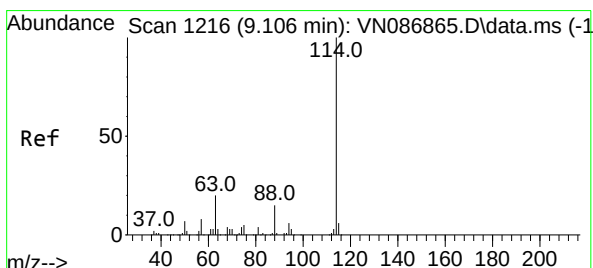
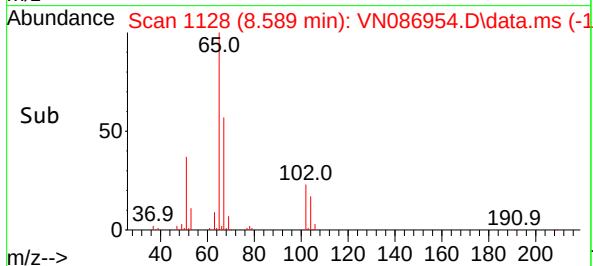
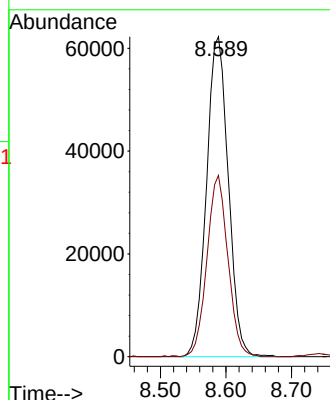
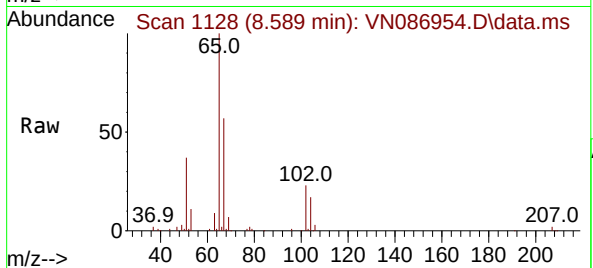
67 54.6 0.0 105.6

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN086954.D

Acq: 11 Jun 2025 17:19

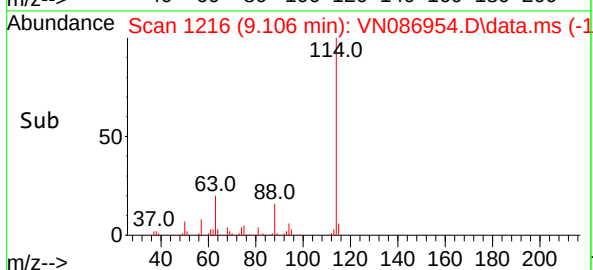
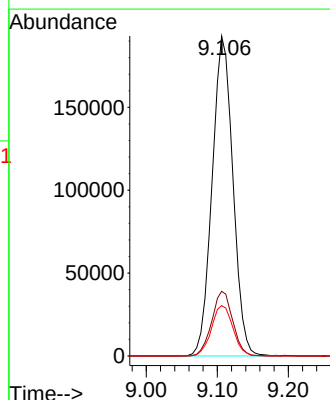
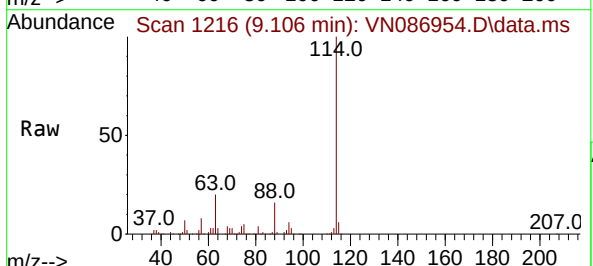
Tgt Ion:114 Resp: 392074

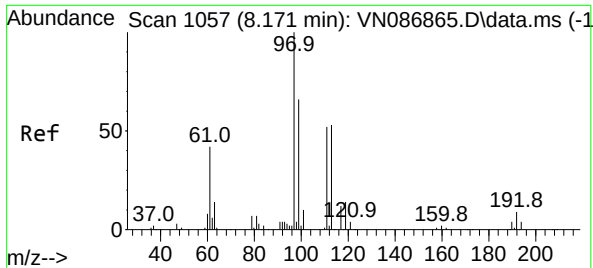
Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.6

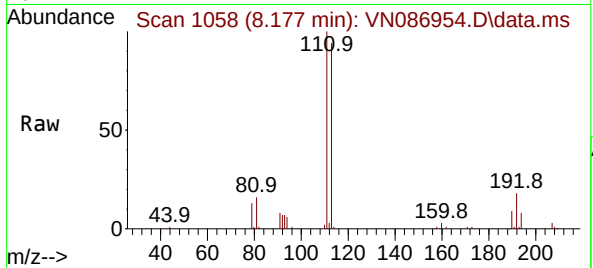
88 15.7 0.0 30.2





#35
Dibromofluoromethane
Concen: 50.508 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

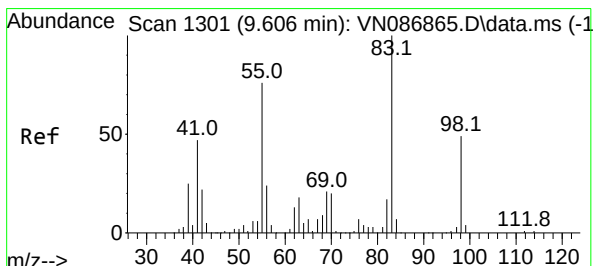
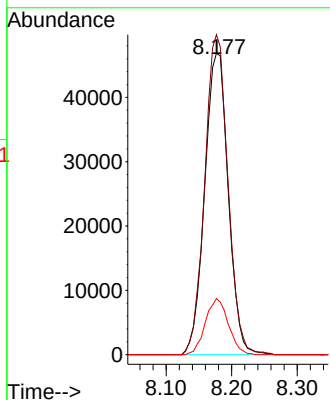
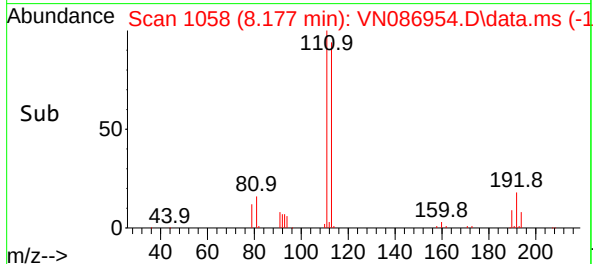
Instrument :
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ClientSampleId :
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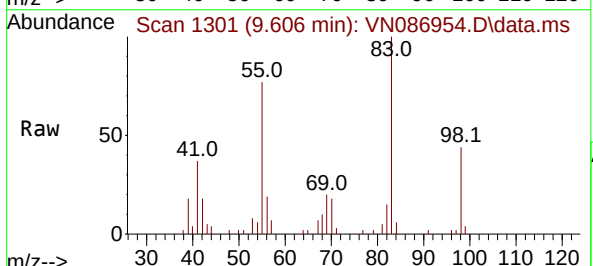
Tgt Ion: 113 Resp: 117350
Ion Ratio Lower Upper
113 100
111 104.3 84.2 126.2
192 18.1 14.2 21.4

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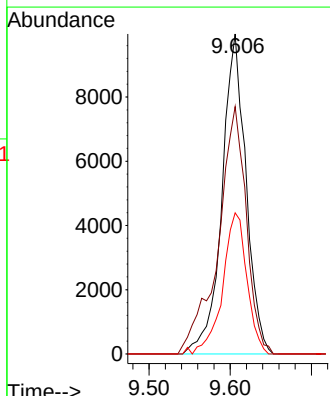
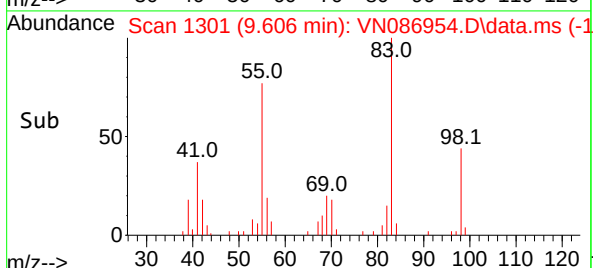
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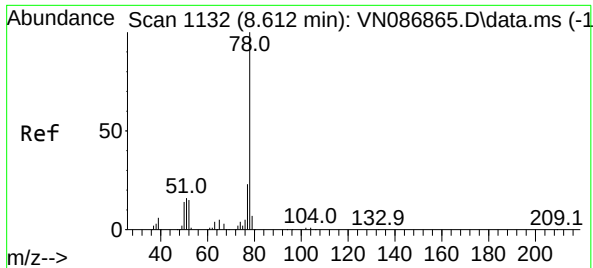


#39
Methylcyclohexane
Concen: 4.316 ug/l
RT: 9.606 min Scan# 1301
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19



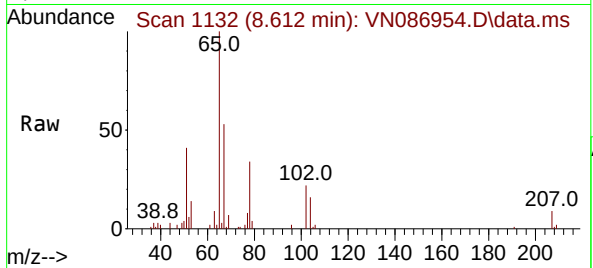
Tgt Ion: 83 Resp: 20471
Ion Ratio Lower Upper
83 100
55 77.3 61.0 91.6
98 44.1 38.9 58.3





#40
Benzene
Concen: 1.082 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

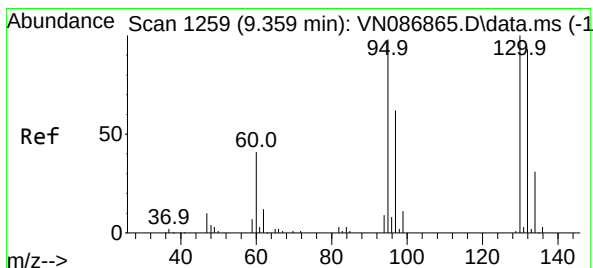
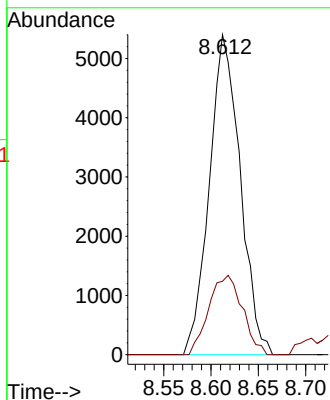
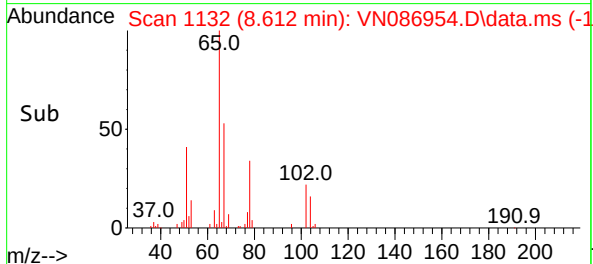
Instrument :
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ClientSampleId :
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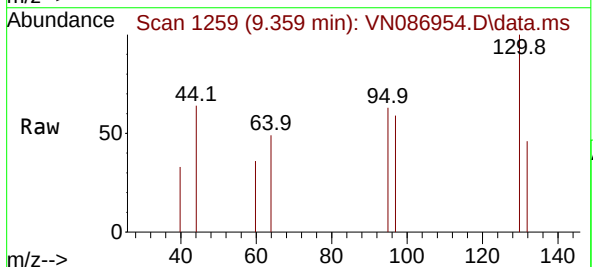
Tgt Ion: 78 Resp: 12250
Ion Ratio Lower Upper
78 100
77 22.9 18.7 28.1

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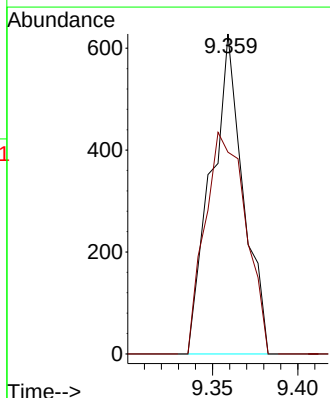
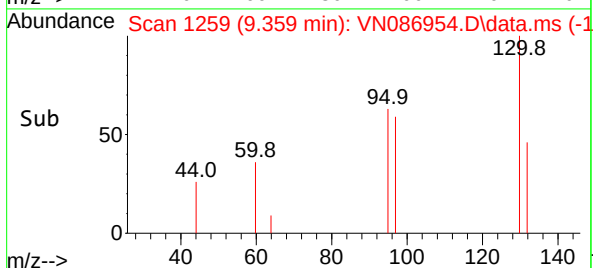
Reviewed By :John Carlone 06/12/2025
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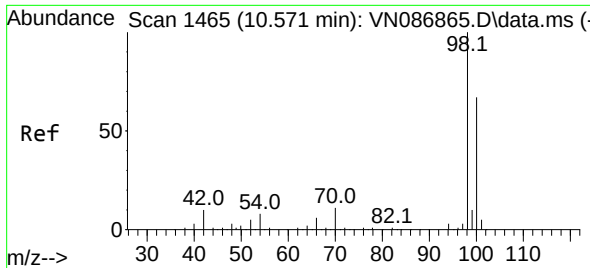


#44
Trichloroethene
Concen: 0.307 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19



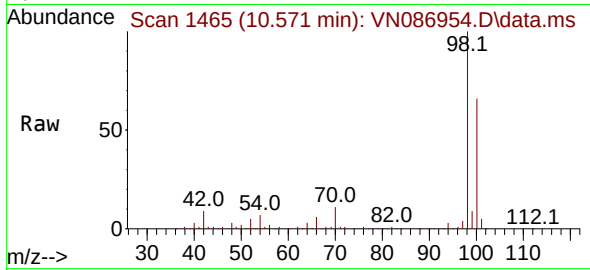
Tgt Ion:130 Resp: 823
Ion Ratio Lower Upper
130 100
95 63.1 0.0 196.2





#50
Toluene-d8
Concen: 52.691 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

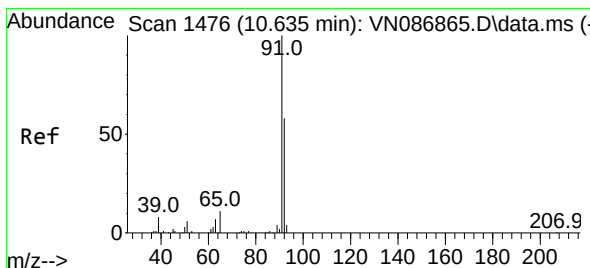
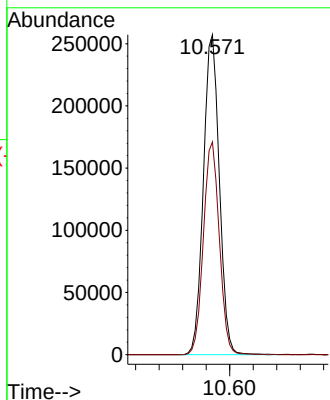
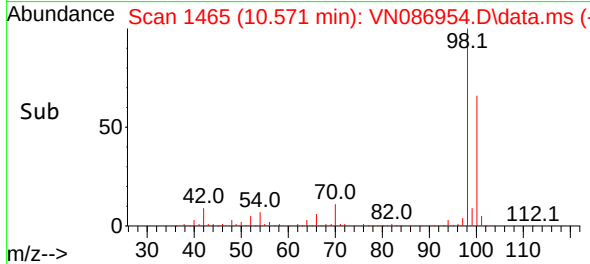
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MSVOA_N
ClientSampleId :
MW-14-20250604



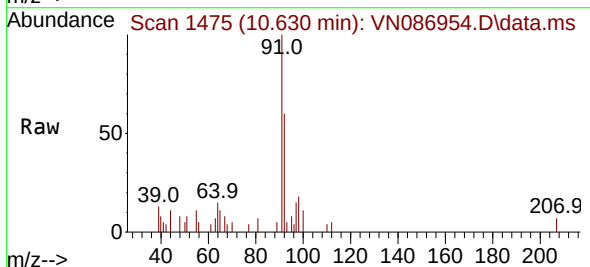
Tgt Ion: 98 Resp: 484662
Ion Ratio Lower Upper
98 100
100 66.3 53.4 80.0

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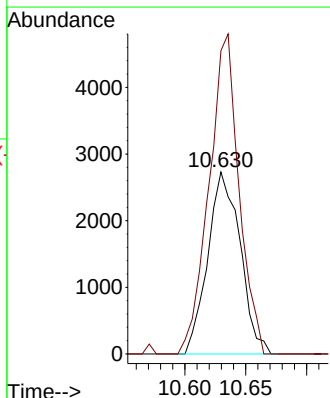
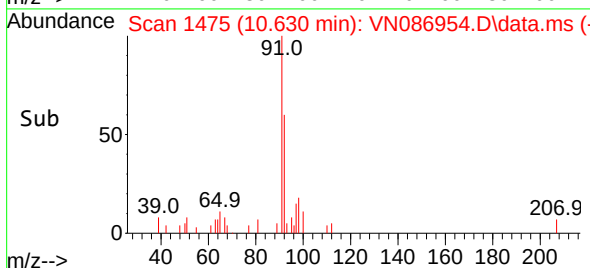
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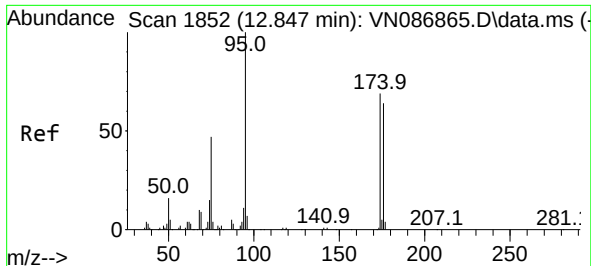


#52
Toluene
Concen: 0.730 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19



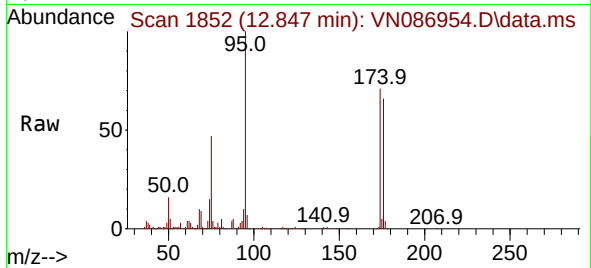
Tgt Ion: 92 Resp: 5049
Ion Ratio Lower Upper
92 100
91 163.0 136.5 204.7





#62
4-Bromofluorobenzene
Concen: 51.226 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

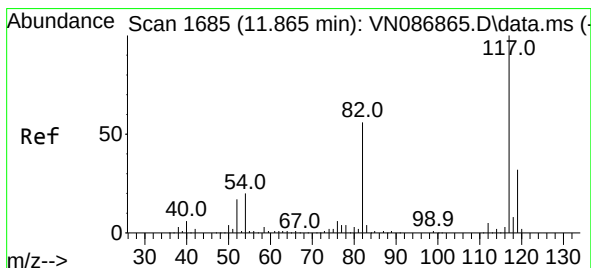
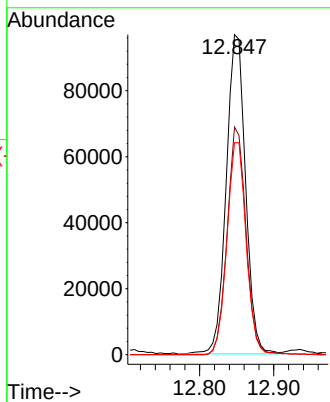
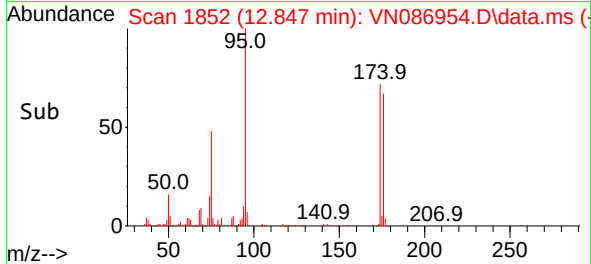
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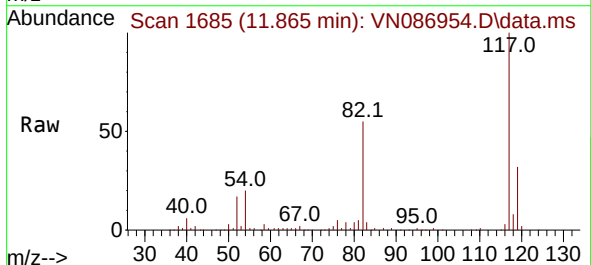
Tgt Ion: 95 Resp: 175059
Ion Ratio Lower Upper
95 100
174 69.6 0.0 141.8
176 66.4 0.0 132.6

Manual Integrations
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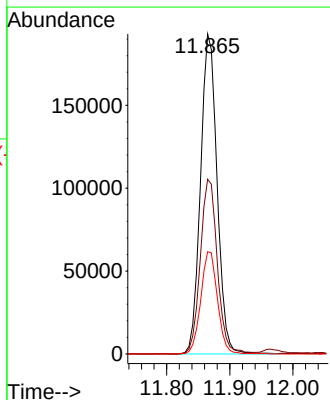
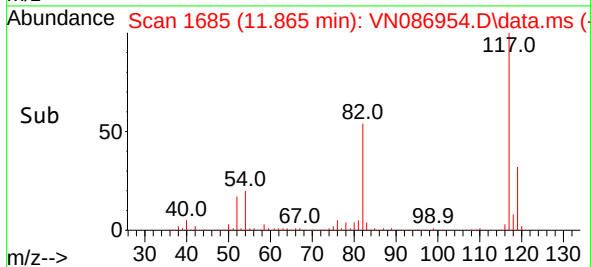
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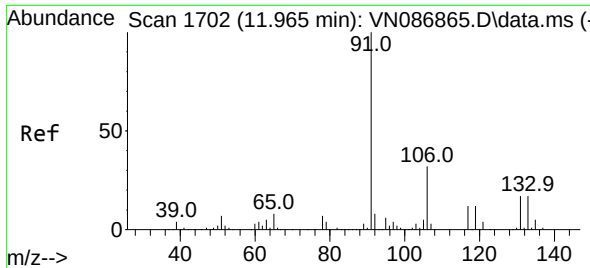


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19



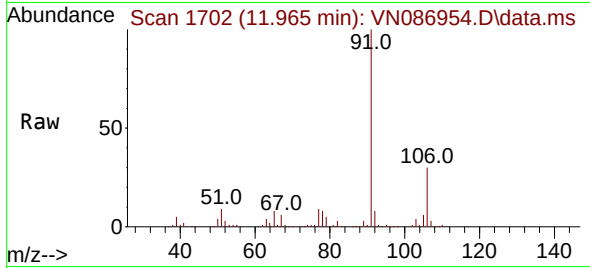
Tgt Ion:117 Resp: 351871
Ion Ratio Lower Upper
117 100
82 54.6 44.6 67.0
119 32.0 25.5 38.3





#67
Ethyl Benzene
Concen: 11.801 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

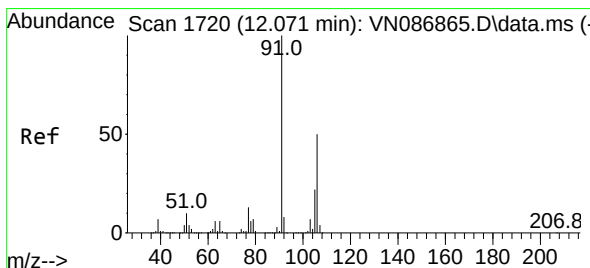
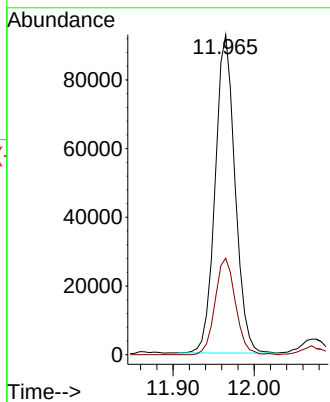
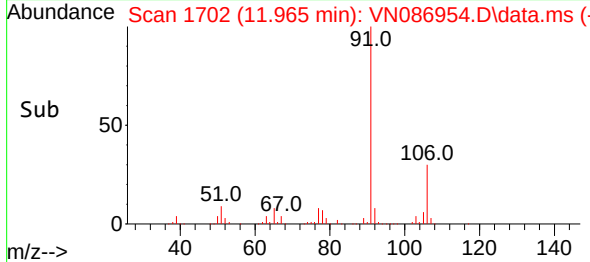
Instrument :
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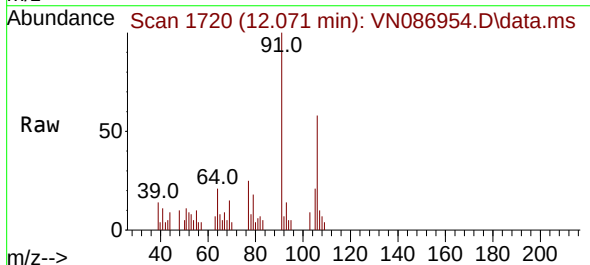
Tgt Ion: 91 Resp: 157749
Ion Ratio Lower Upper
91 100
106 30.3 25.4 38.2

Manual Integrations
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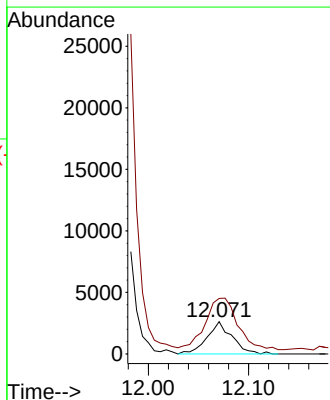
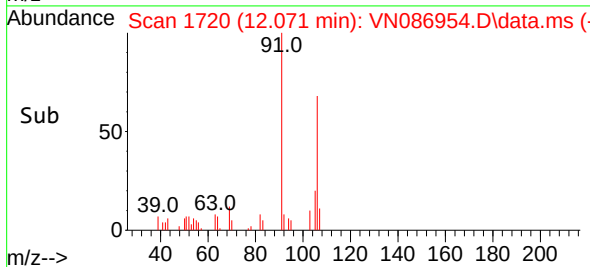
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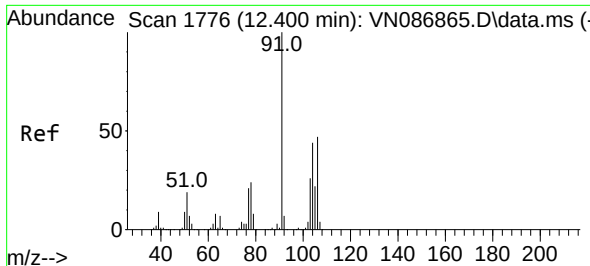


#68
m/p-Xylenes
Concen: 0.892 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19



Tgt Ion:106 Resp: 4563
Ion Ratio Lower Upper
106 100
91 204.6 159.4 239.0





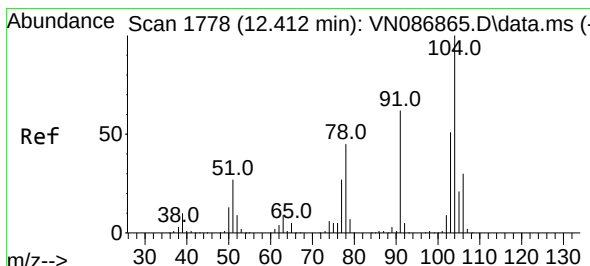
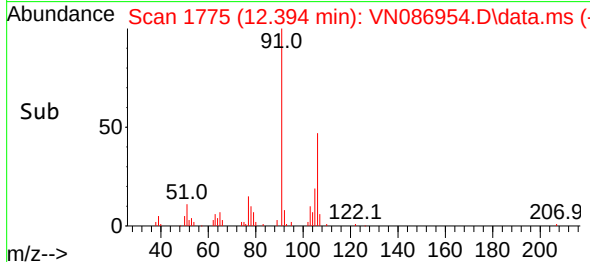
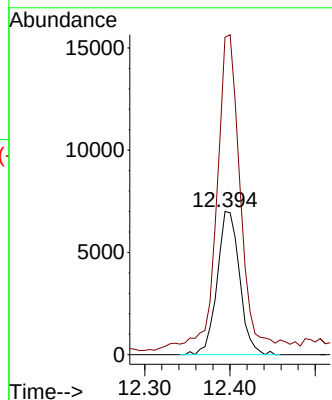
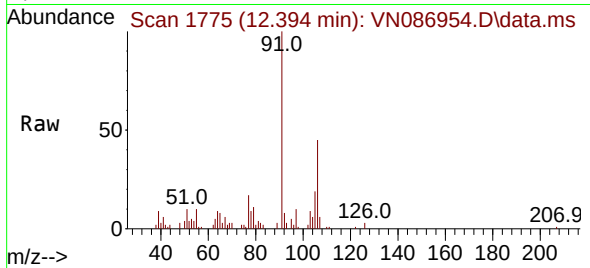
#69
o-Xylene
Concen: 2.609 ug/l
RT: 12.394 min Scan# 1776
Delta R.T. -0.006 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604

Tgt Ion:106 Resp: 12780
Ion Ratio Lower Upper
106 100
91 233.6 106.1 318.1

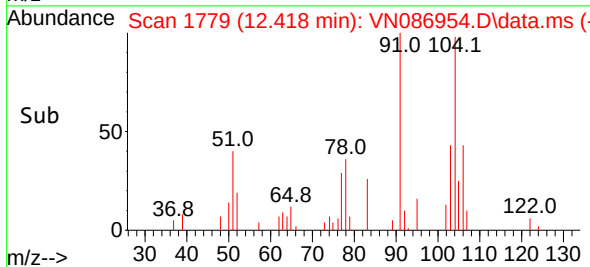
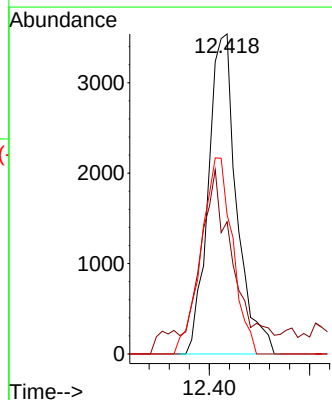
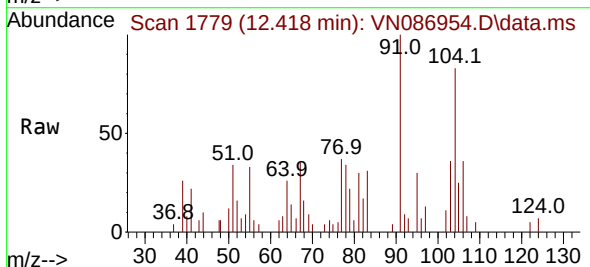
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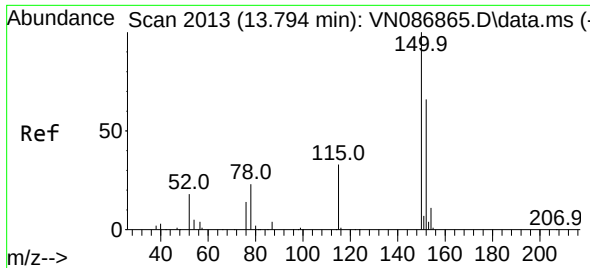
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#70
Styrene
Concen: 0.831 ug/l
RT: 12.418 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

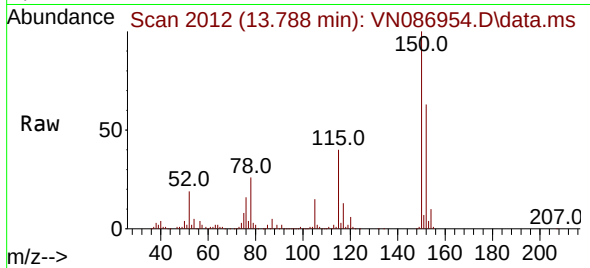
Tgt Ion:104 Resp: 6971
Ion Ratio Lower Upper
104 100
78 72.9 38.5 57.7#
103 67.7 43.1 64.7#





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

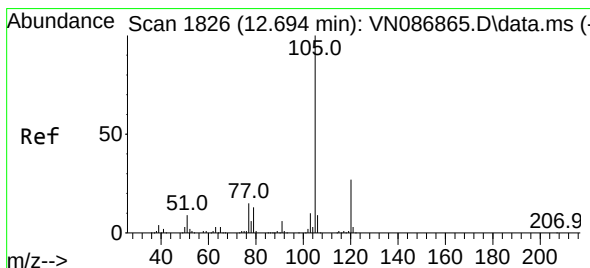
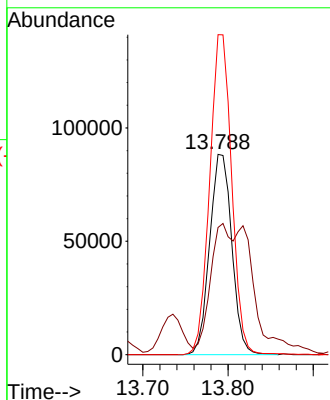
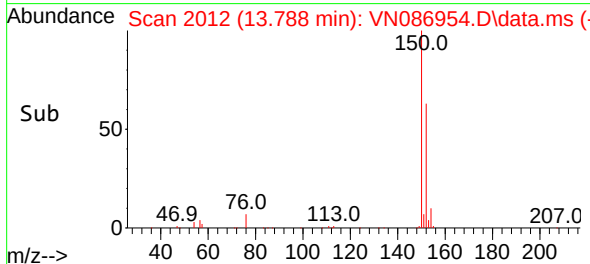
Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604



Tgt Ion:152 Resp: 15970
Ion Ratio Lower Upper
152 100
115 61.3 30.1 90.5
150 158.7 0.0 345.0

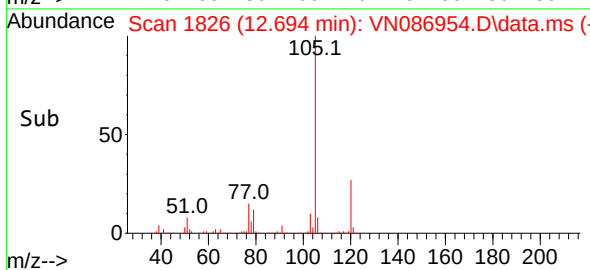
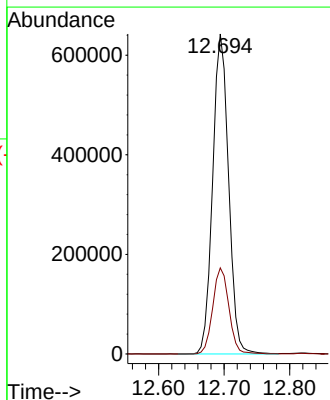
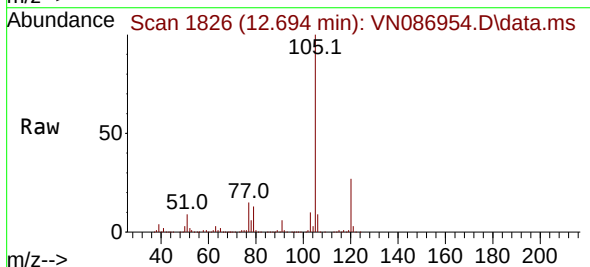
Manual Integrations
APPROVED

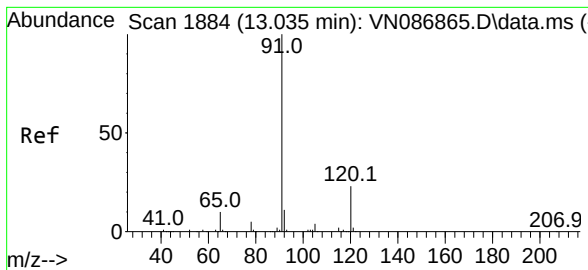
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#73
Isopropylbenzene
Concen: 92.927 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

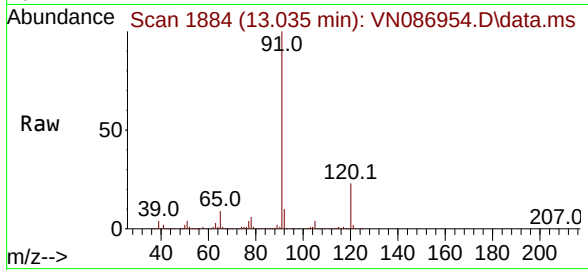
Tgt Ion:105 Resp: 1081176
Ion Ratio Lower Upper
105 100
120 27.2 13.5 40.4





#78
n-propylbenzene
Concen: 84.205 ug/l
RT: 13.035 min Scan# 119058
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19

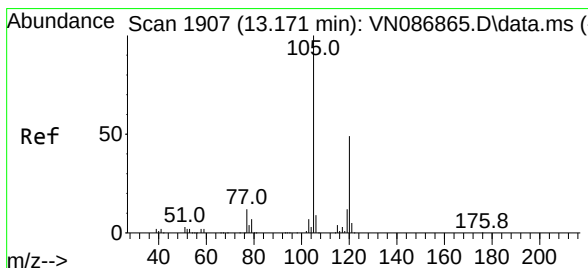
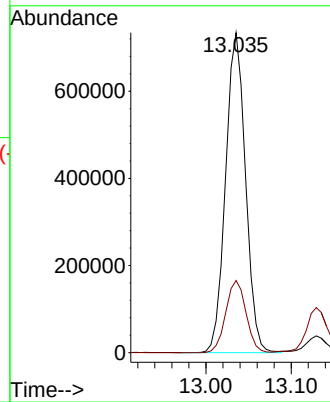
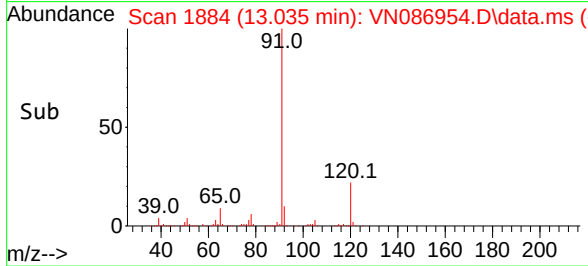
Instrument :
MSVOA_N
ClientSampleId :
MW-14-20250604



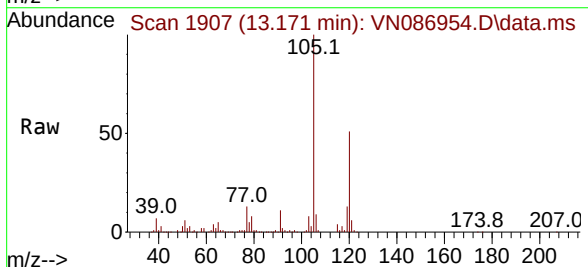
Tgt Ion: 91 Resp: 119058
Ion Ratio Lower Upper
91 100
120 23.0 11.4 34.2

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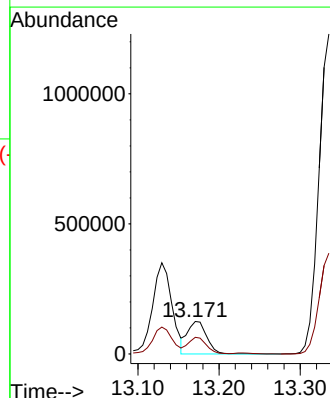
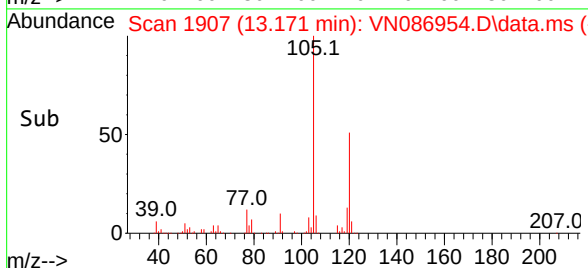
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

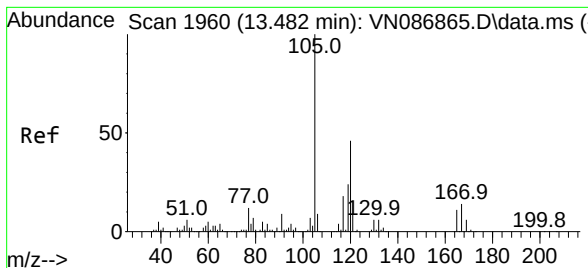


#80
1,3,5-Trimethylbenzene
Concen: 21.360 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086954.D
Acq: 11 Jun 2025 17:19



Tgt Ion:105 Resp: 205176
Ion Ratio Lower Upper
105 100
120 46.9 24.9 74.6





#84

1,2,4-Trimethylbenzene

Concen: 622.641 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN086954.D

Acq: 11 Jun 2025 17:19

Instrument :

MSVOA_N

ClientSampleId :

MW-14-20250604

Tgt Ion:105 Resp: 599749

Ion Ratio Lower Upper

105 100

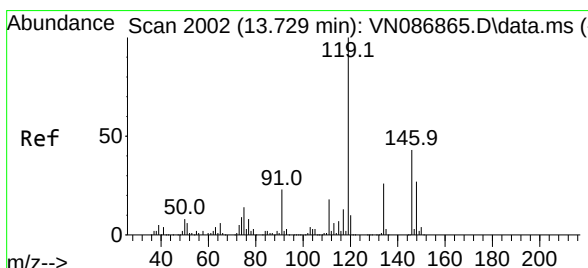
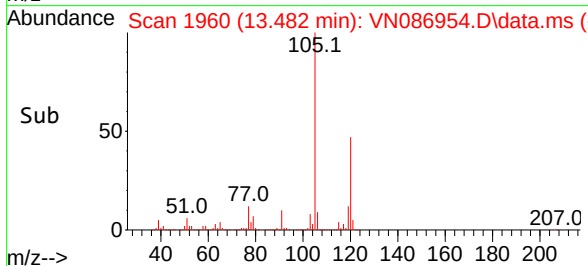
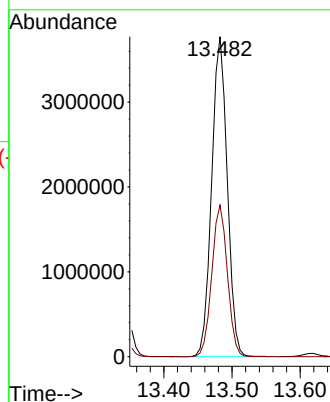
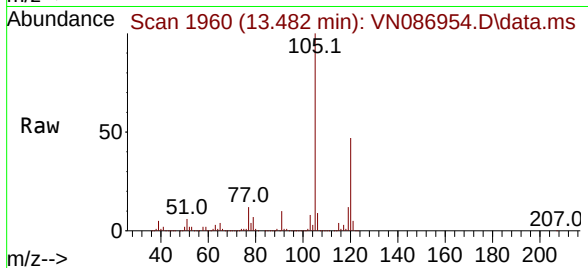
120 47.3 23.2 69.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#86

p-Isopropyltoluene

Concen: 16.039 ug/l m

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN086954.D

Acq: 11 Jun 2025 17:19

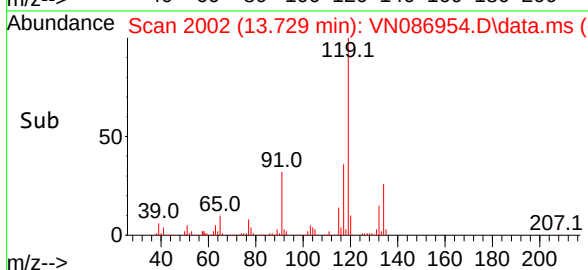
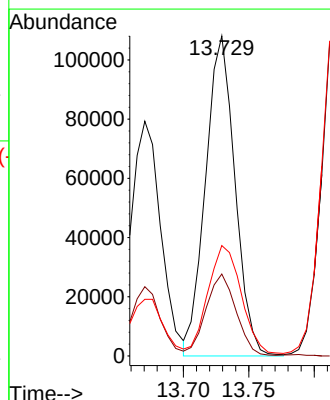
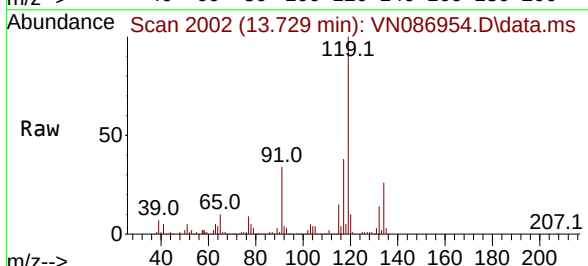
Tgt Ion:119 Resp: 169301

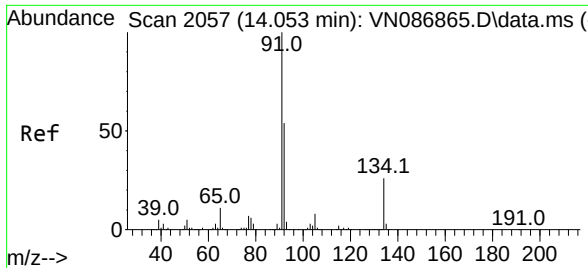
Ion Ratio Lower Upper

119 100

134 21.6 13.5 40.4

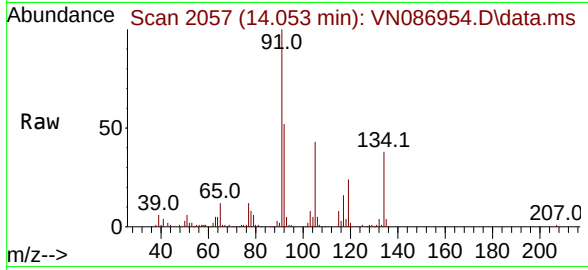
91 17.1 11.5 34.4





#89
 n-Butylbenzene
 Concen: 9.578 ug/l m
 RT: 14.053 min Scan# 2057
 Delta R.T. 0.000 min
 Lab File: VN086954.D
 Acq: 11 Jun 2025 17:19

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-14-20250604



Tgt Ion: 91 Resp: 9793

Ion	Ratio	Lower	Upper
91	100		
92	81.1	27.5	82.4
134	0.0	13.0	39.0

Manual Integrations
 APPROVED

Reviewed By :John Carlone 06/12/2025
 Supervised By :Semsettin Yesilyurt 06/12/2025

