

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086991.D
 Acq On : 12 Jun 2025 20:26
 Operator : JC\MD
 Sample : Q2268-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/13/2025
 Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:35:05 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	259006	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	488303	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	432945	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	195427	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	163884	47.259	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.520%		
35) Dibromofluoromethane	8.177	113	147079	50.826	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.660%		
50) Toluene-d8	10.571	98	587009	51.241	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.480%		
62) 4-Bromofluorobenzene	12.847	95	205325	48.242	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.480%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.547	59	3942	4.189	ug/l #	73
25) 2-Butanone	7.500	43	36258	12.129	ug/l	99
31) Cyclohexane	8.271	56	216667	38.522	ug/l #	87
39) Methylcyclohexane	9.606	83	242592	41.064	ug/l	94
40) Benzene	8.618	78	1406771	99.767	ug/l	100
52) Toluene	10.629	92	79431	9.218	ug/l	99
67) Ethyl Benzene	11.965	91	6151631	374.015	ug/l	99
68) m/p-Xylenes	12.076	106	3017617	479.282	ug/l	97
69) o-Xylene	12.400	106	54440	9.028	ug/l	99
73) Isopropylbenzene	12.694	105	595515	41.829	ug/l	99
78) n-propylbenzene	13.035	91	1406861	81.313	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	888246	75.567	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	3198494	271.361	ug/l	98
85) sec-Butylbenzene	13.618	105	70137m	4.489	ug/l	
86) p-Isopropyltoluene	13.729	119	17728	1.373	ug/l #	77
89) n-Butylbenzene	14.053	91	84006	6.715	ug/l #	80

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

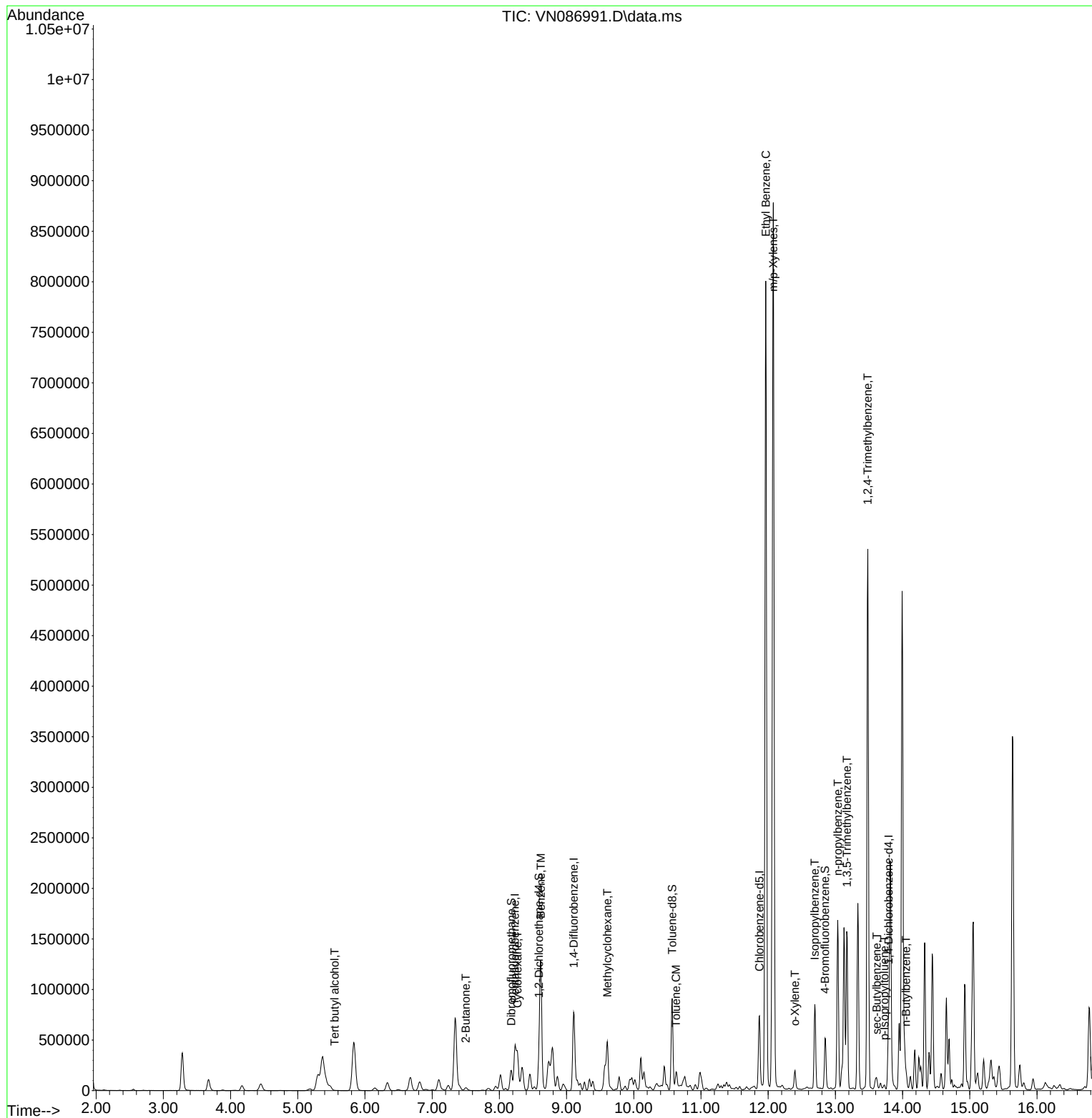
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086991.D
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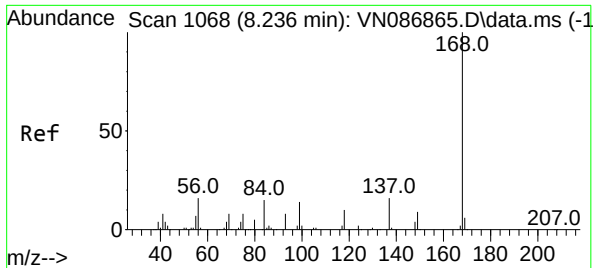
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

Manual Integrations
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Quant Time: Jun 13 01:35:05 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





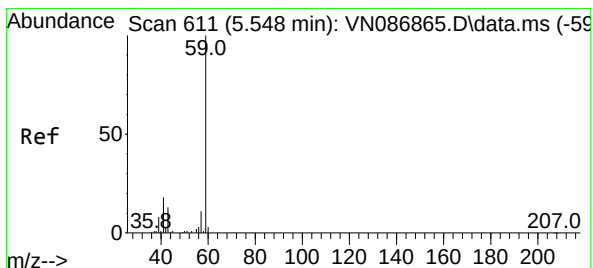
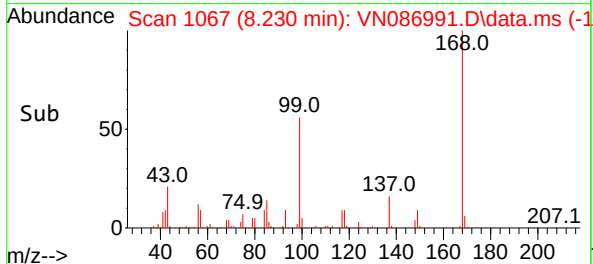
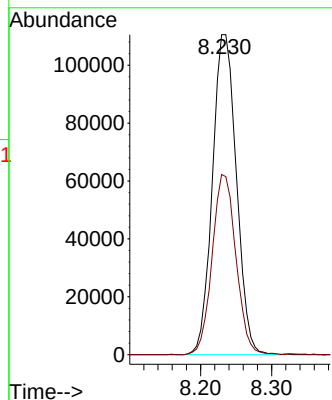
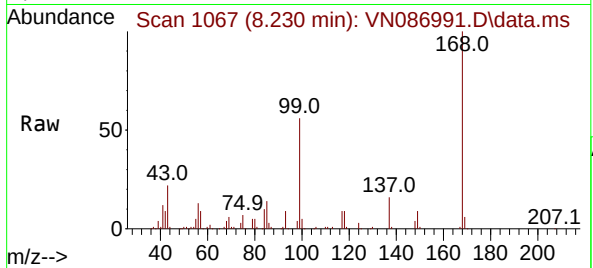
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

Tgt Ion:168 Resp: 259000
Ion Ratio Lower Upper
168 100
99 56.3 49.1 73.7

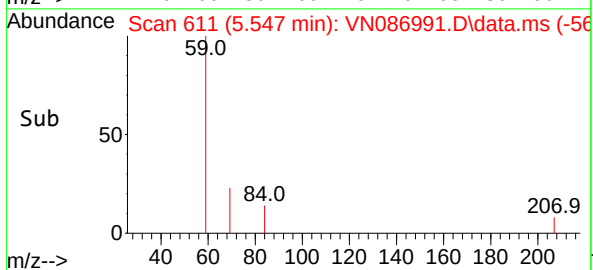
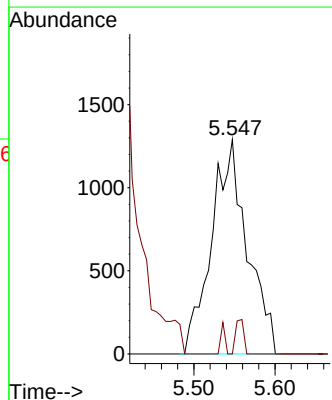
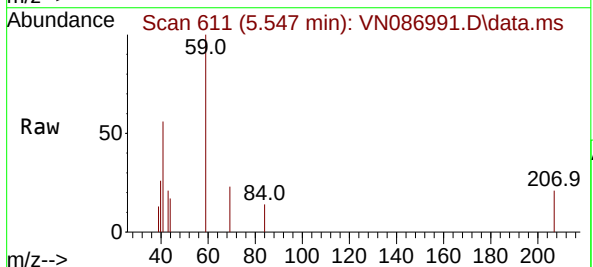
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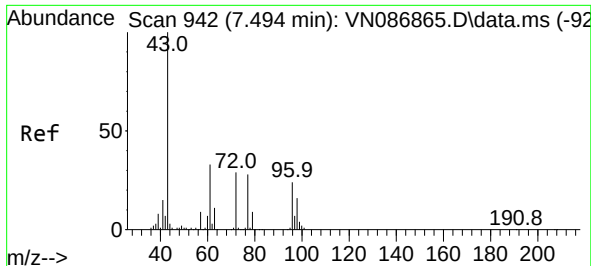
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#11
Tert butyl alcohol
Concen: 4.189 ug/l
RT: 5.547 min Scan# 611
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

Tgt Ion: 59 Resp: 3942
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





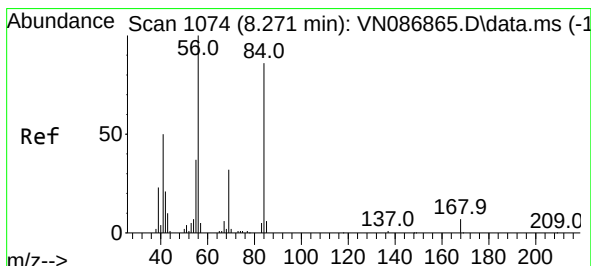
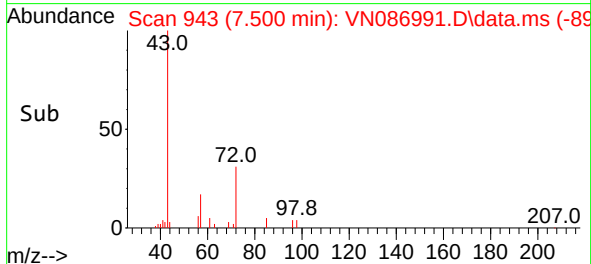
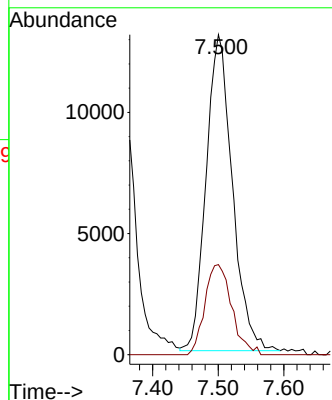
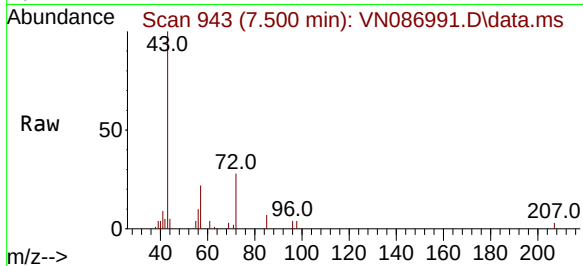
#25
2-Butanone
Concen: 12.129 ug/l
RT: 7.500 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

Tgt Ion: 43 Resp: 36258
Ion Ratio Lower Upper
43 100
72 28.5 23.0 34.6

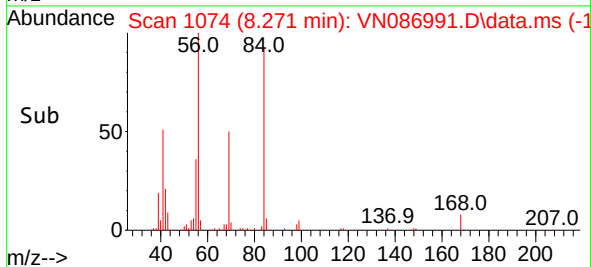
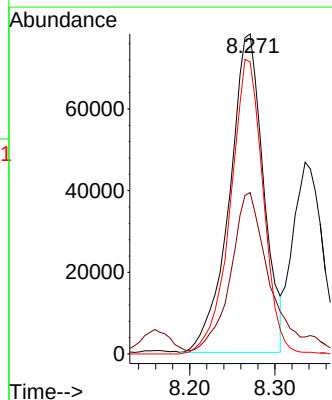
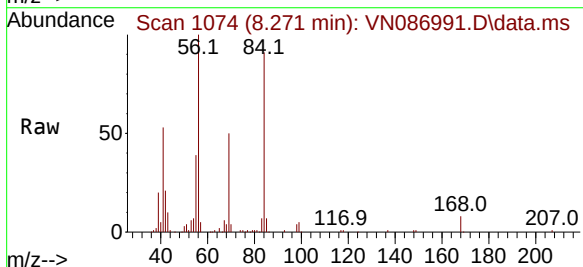
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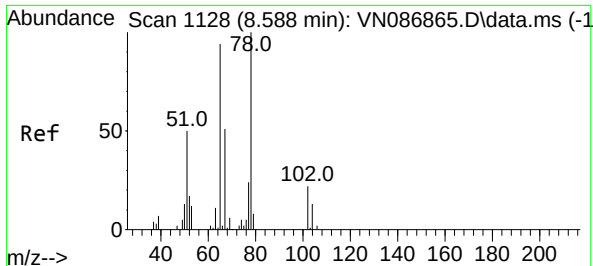
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#31
Cyclohexane
Concen: 38.522 ug/l
RT: 8.271 min Scan# 1074
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

Tgt Ion: 56 Resp: 216667
Ion Ratio Lower Upper
56 100
69 48.7 25.4 38.0#
84 91.7 68.8 103.2





#33

1,2-Dichloroethane-d4

Concen: 47.259 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086991.D

Acq: 12 Jun 2025 20:26

Instrument :

MSVOA_N

ClientSampleId :

MW-2-20250605

Tgt Ion: 65 Resp: 163884

Ion Ratio Lower Upper

65 100

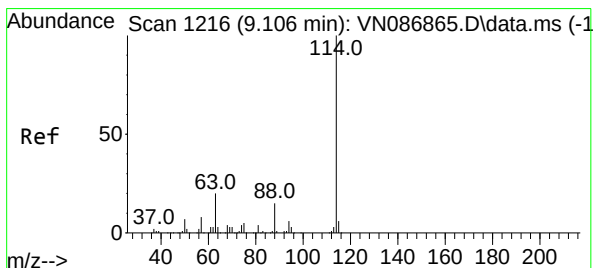
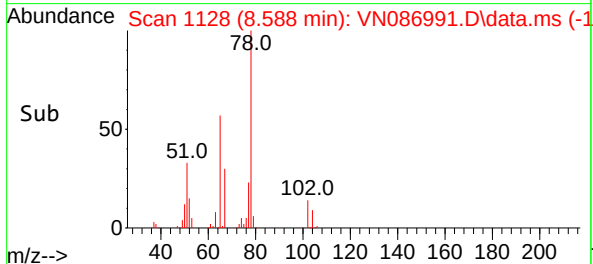
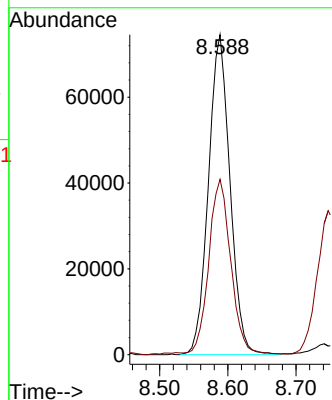
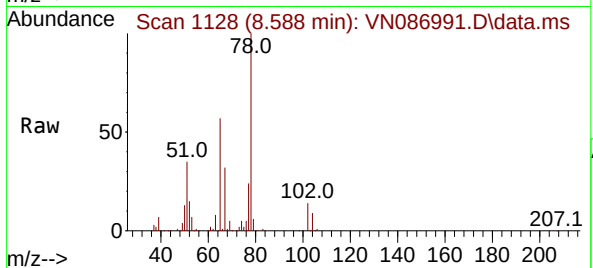
67 57.0 0.0 105.6

Manual Integrations

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Supervised By :Mahesh Dadoda 06/13/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086991.D

Acq: 12 Jun 2025 20:26

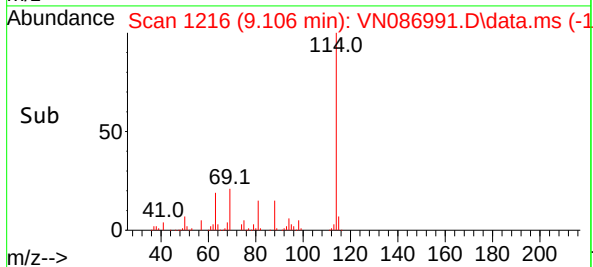
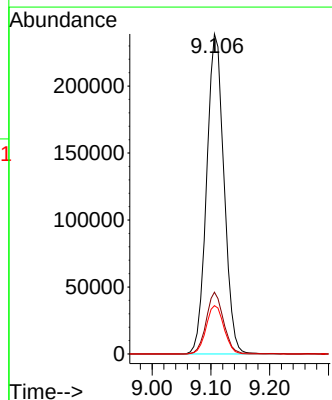
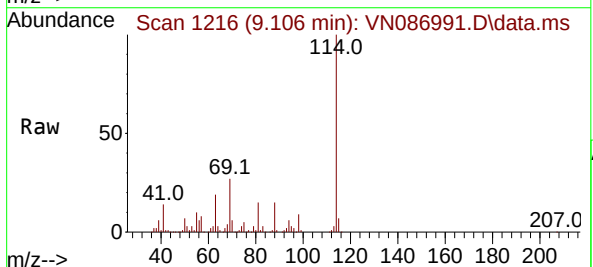
Tgt Ion:114 Resp: 488303

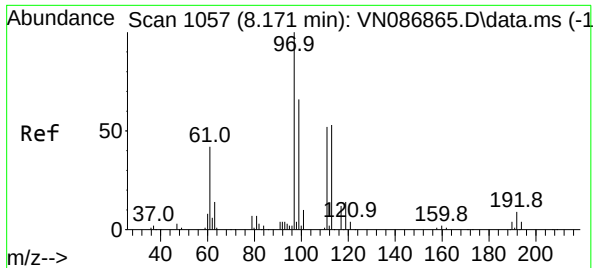
Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.6

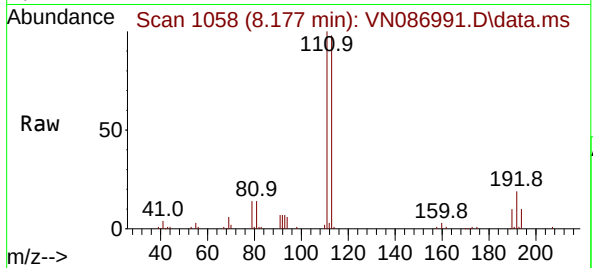
88 15.1 0.0 30.2





#35
 Dibromofluoromethane
 Concen: 50.826 ug/l
 RT: 8.177 min Scan# 1058
 Delta R.T. 0.006 min
 Lab File: VN086991.D
 Acq: 12 Jun 2025 20:26

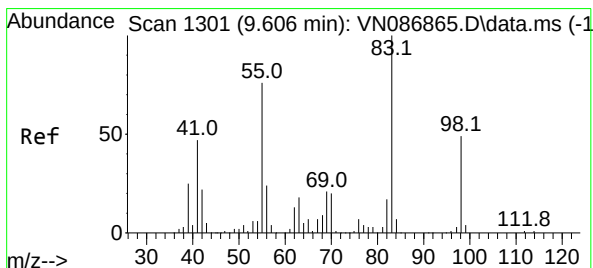
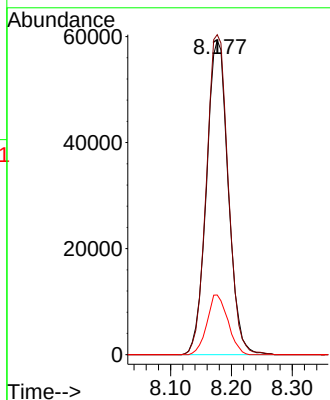
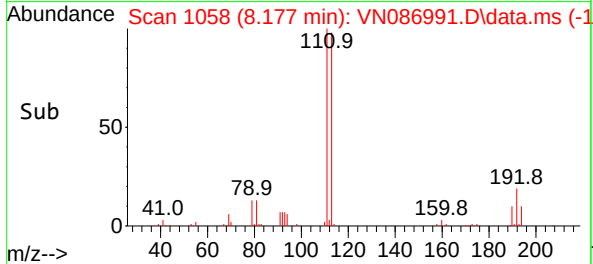
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605



Tgt Ion: 113 Resp: 147079
 Ion Ratio Lower Upper
 113 100
 111 101.9 84.2 126.2
 192 18.3 14.2 21.4

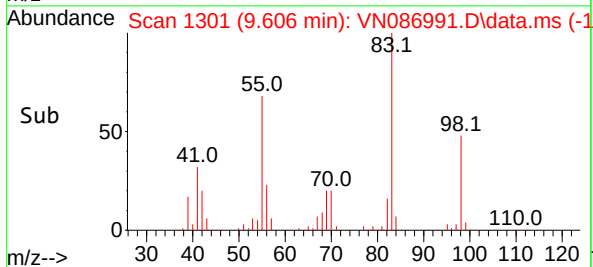
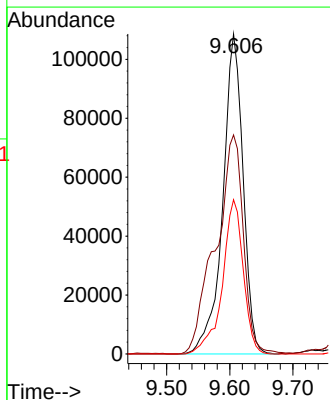
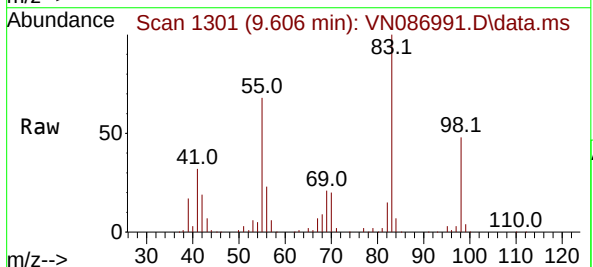
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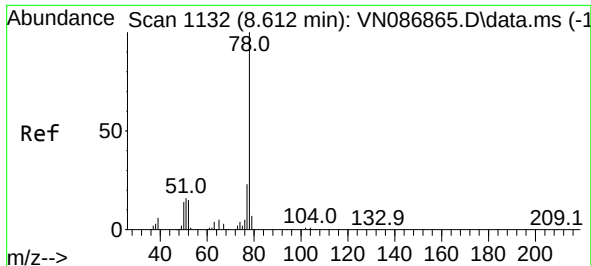
Reviewed By :John Carlone 06/13/2025
 Supervised By :Mahesh Dadoda 06/13/2025



#39
 Methylcyclohexane
 Concen: 41.064 ug/l
 RT: 9.606 min Scan# 1301
 Delta R.T. -0.000 min
 Lab File: VN086991.D
 Acq: 12 Jun 2025 20:26

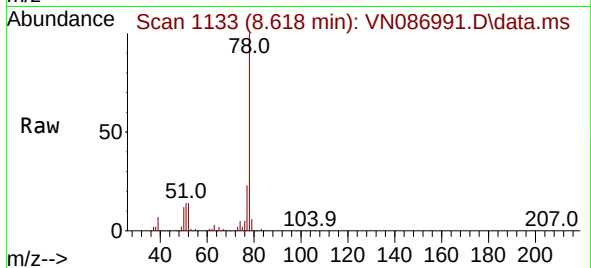
Tgt Ion: 83 Resp: 242592
 Ion Ratio Lower Upper
 83 100
 55 68.5 61.0 91.6
 98 48.2 38.9 58.3





#40
Benzene
Concen: 99.767 ug/l
RT: 8.618 min Scan# 1133
Delta R.T. 0.006 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

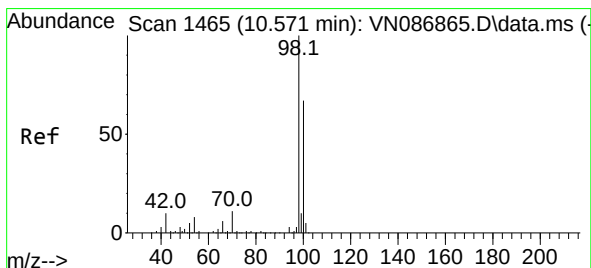
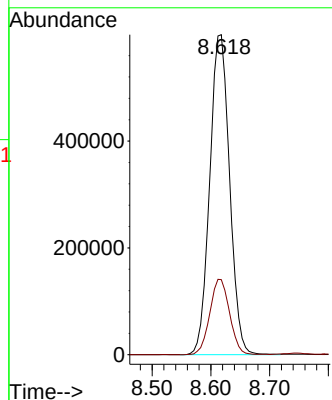
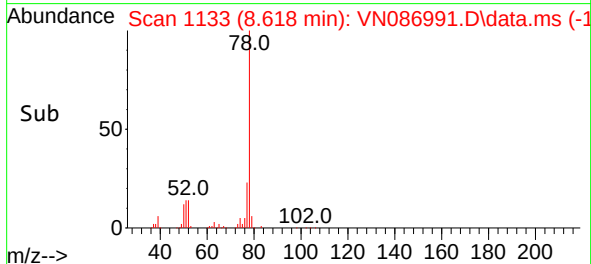
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605



Tgt Ion: 78 Resp: 140677
Ion Ratio Lower Upper
78 100
77 23.5 18.7 28.1

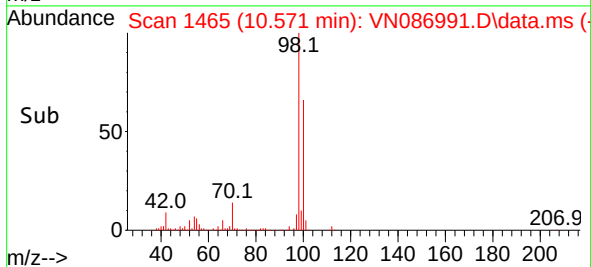
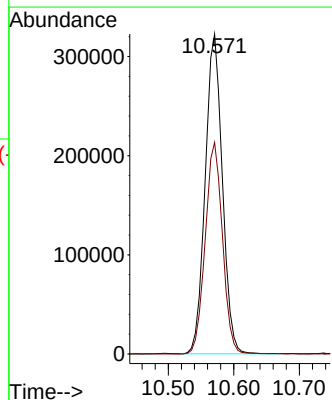
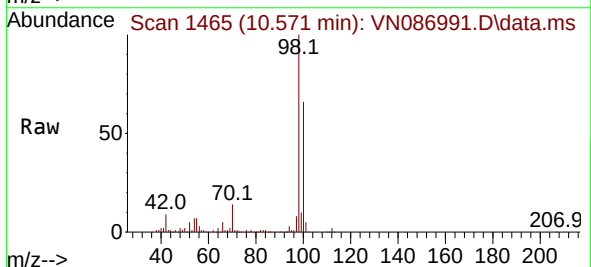
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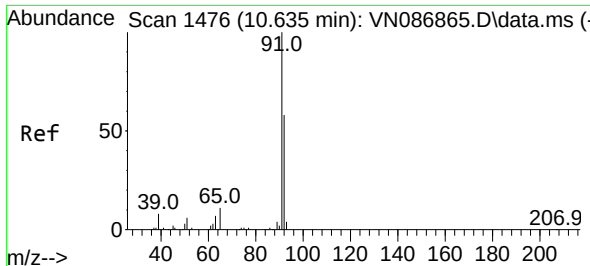
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#50
Toluene-d8
Concen: 51.241 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

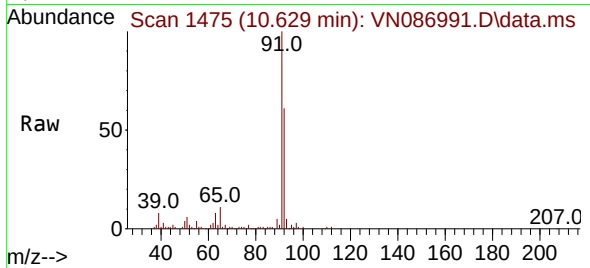
Tgt Ion: 98 Resp: 587009
Ion Ratio Lower Upper
98 100
100 66.5 53.4 80.0





#52
Toluene
Concen: 9.218 ug/l
RT: 10.629 min Scan# 1476
Delta R.T. -0.006 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

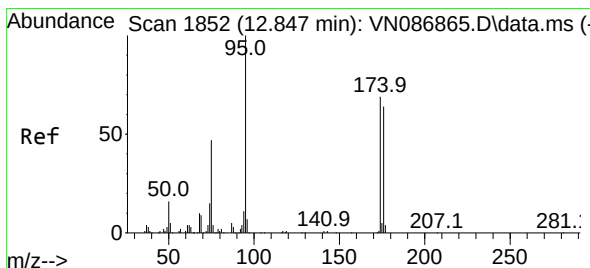
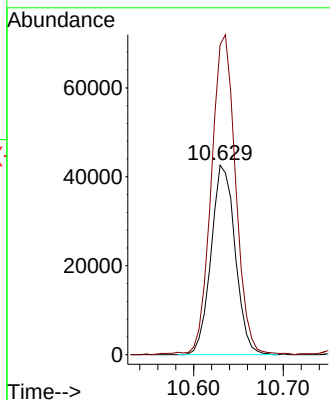
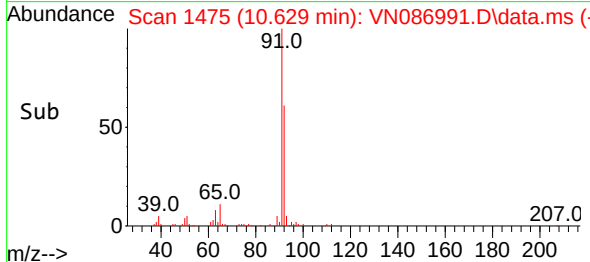
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605



Tgt Ion: 92 Resp: 7943
Ion Ratio Lower Upper
92 100
91 171.4 136.5 204.7

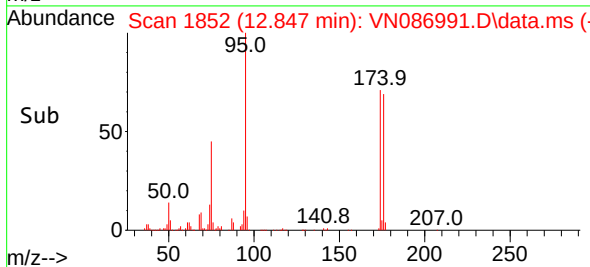
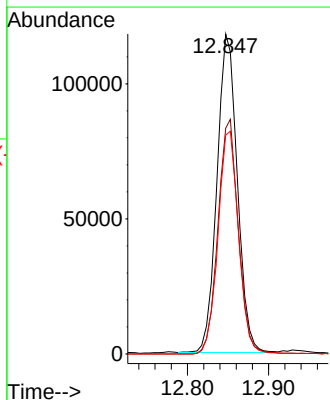
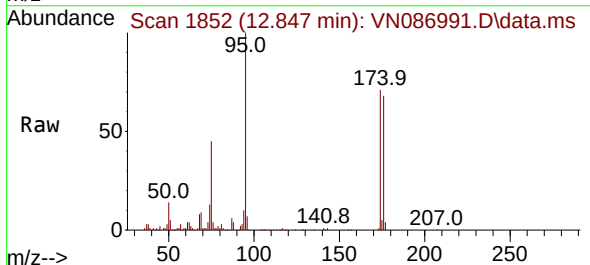
Manual Integrations
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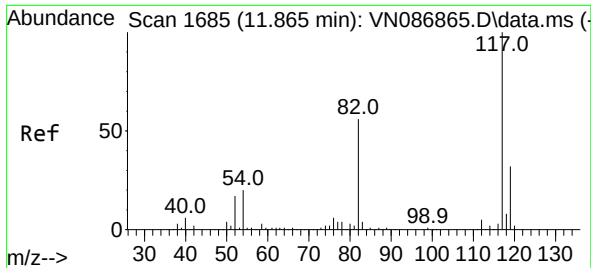
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#62
4-Bromofluorobenzene
Concen: 48.242 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

Tgt Ion: 95 Resp: 205325
Ion Ratio Lower Upper
95 100
174 74.0 0.0 141.8
176 70.6 0.0 132.6





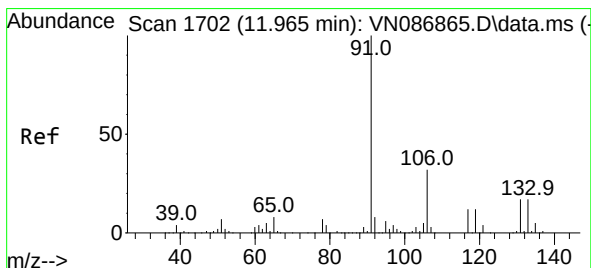
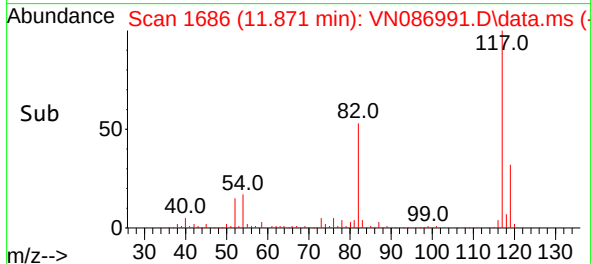
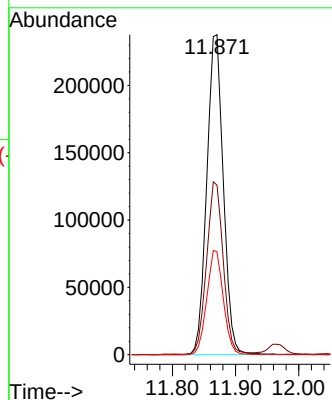
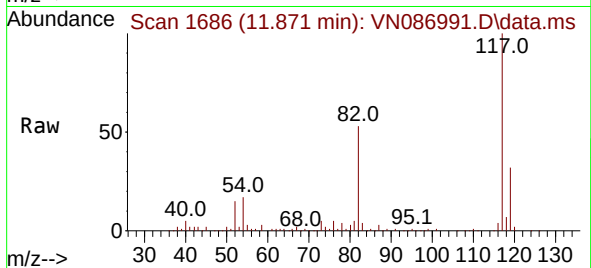
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Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605

Tgt Ion:117 Resp: 432945
Ion Ratio Lower Upper
117 100
82 52.8 44.6 67.0
119 32.1 25.5 38.3

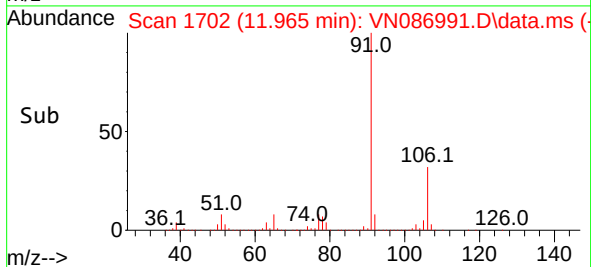
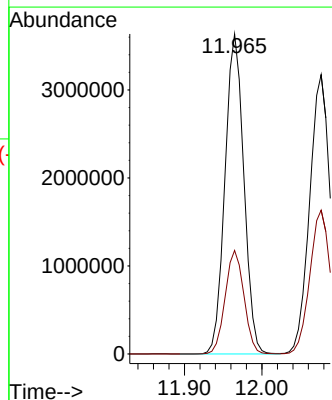
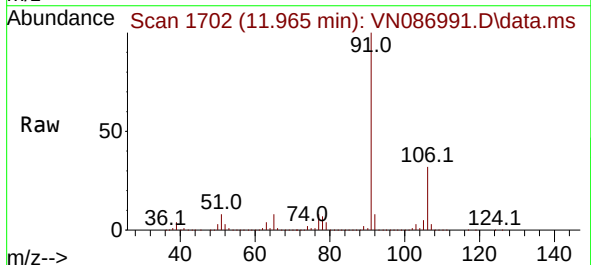
Manual Integrations
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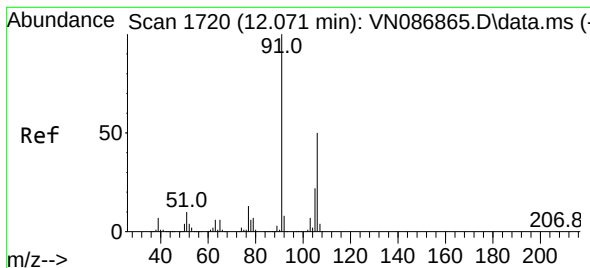
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#67
Ethyl Benzene
Concen: 374.015 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

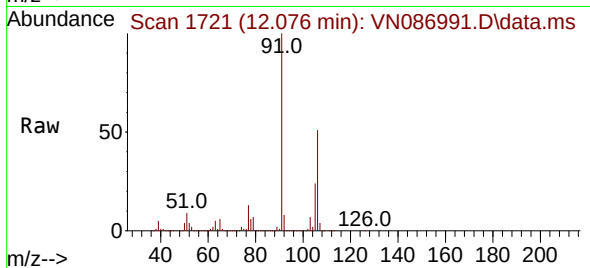
Tgt Ion: 91 Resp: 6151631
Ion Ratio Lower Upper
91 100
106 32.4 25.4 38.2





#68
m/p-Xylenes
Concen: 479.282 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

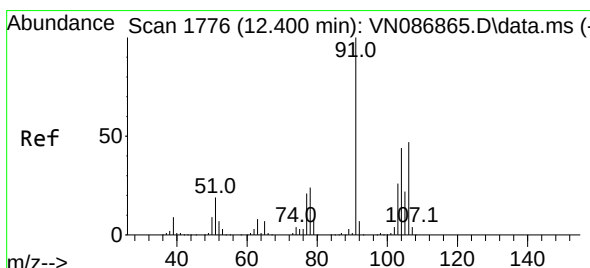
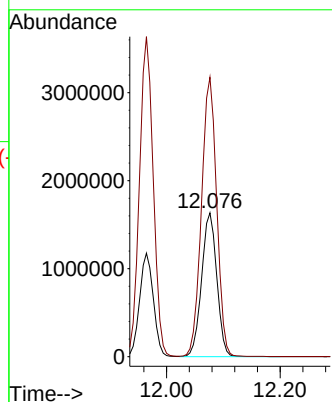
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605



Tgt Ion:106 Resp: 301761
Ion Ratio Lower Upper
106 100
91 195.3 159.4 239.0

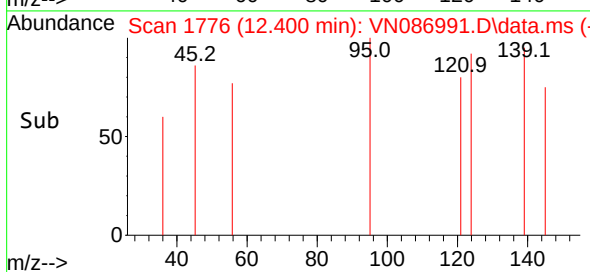
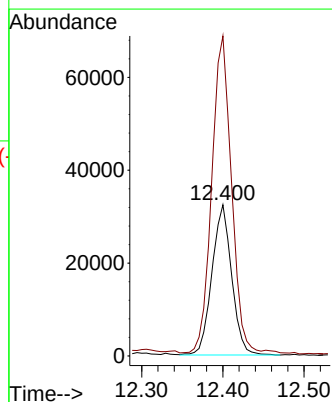
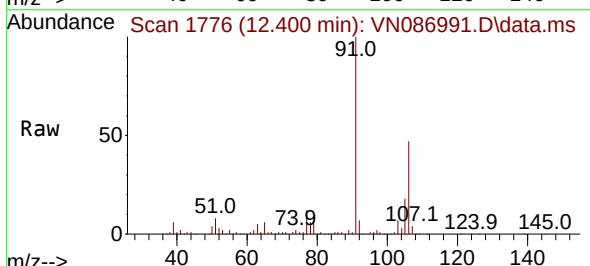
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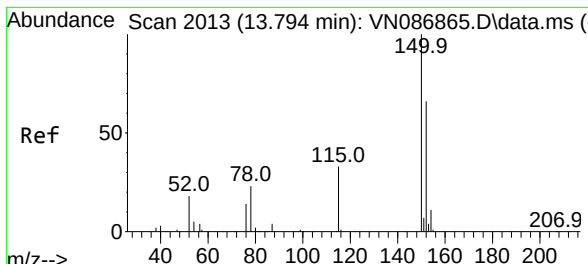
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#69
o-Xylene
Concen: 9.028 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

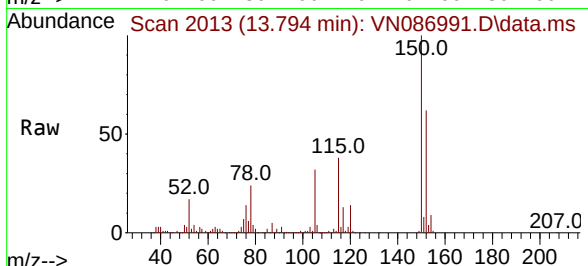
Tgt Ion:106 Resp: 54440
Ion Ratio Lower Upper
106 100
91 213.9 106.1 318.1





#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. -0.000 min
 Lab File: VN086991.D
 Acq: 12 Jun 2025 20:26

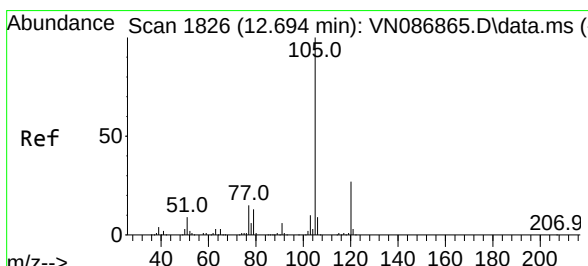
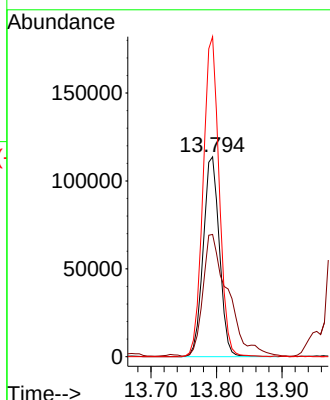
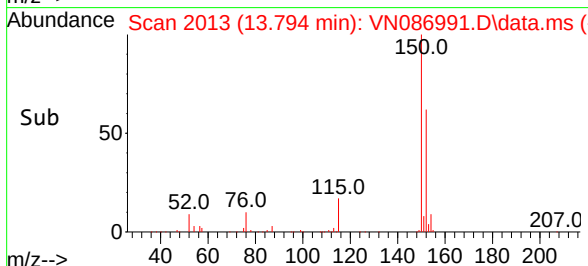
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2-20250605



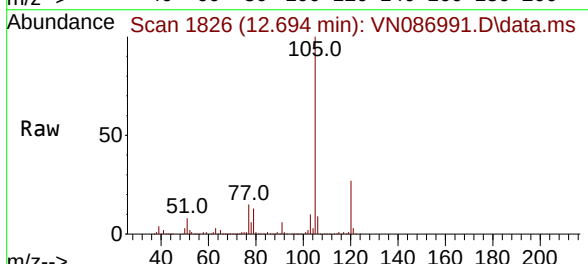
Tgt Ion:152 Resp: 19542
 Ion Ratio Lower Upper
 152 100
 115 93.6 30.1 90.5
 150 158.8 0.0 345.0

Manual Integrations
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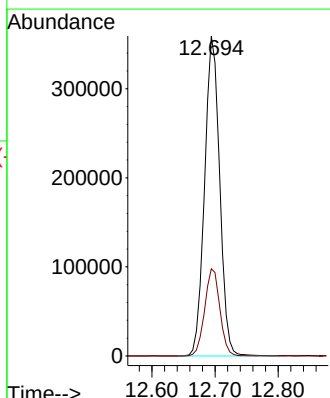
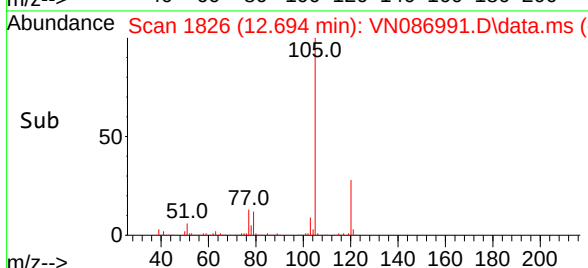
Reviewed By :John Carlone 06/13/2025
 Supervised By :Mahesh Dadoda 06/13/2025

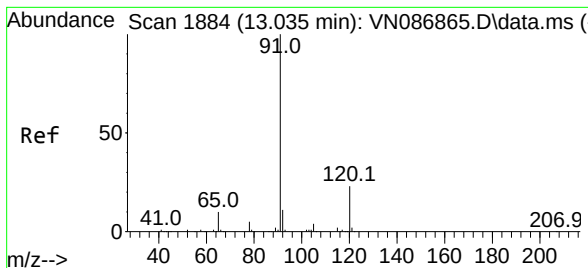


#73
 Isopropylbenzene
 Concen: 41.829 ug/l
 RT: 12.694 min Scan# 1826
 Delta R.T. -0.000 min
 Lab File: VN086991.D
 Acq: 12 Jun 2025 20:26



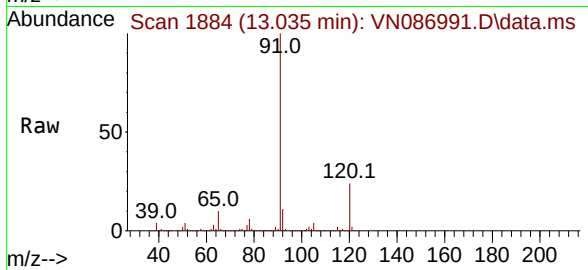
Tgt Ion:105 Resp: 595515
 Ion Ratio Lower Upper
 105 100
 120 27.4 13.5 40.4





#78
n-propylbenzene
Concen: 81.313 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

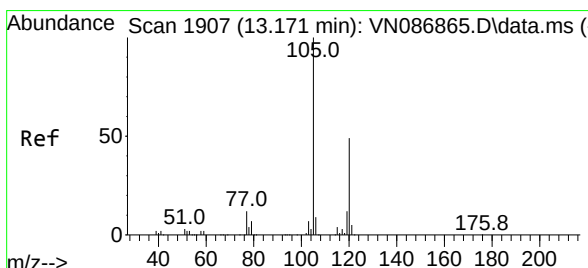
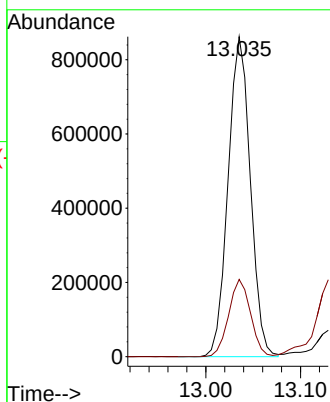
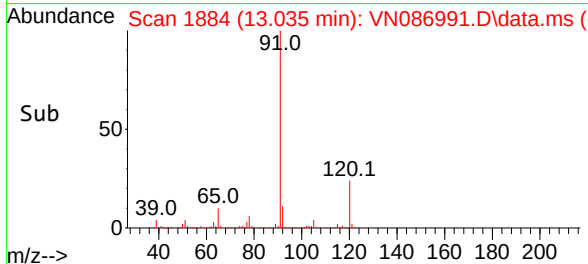
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605



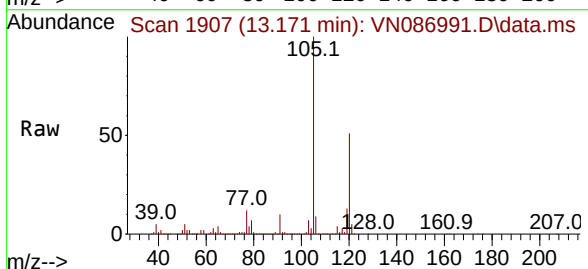
Tgt Ion: 91 Resp: 140686
Ion Ratio Lower Upper
91 100
120 23.7 11.4 34.2

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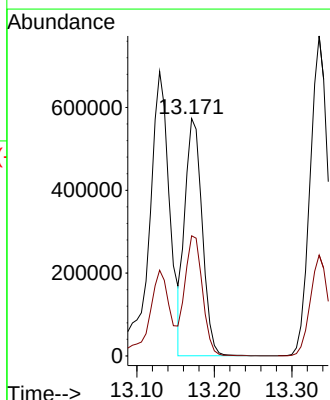
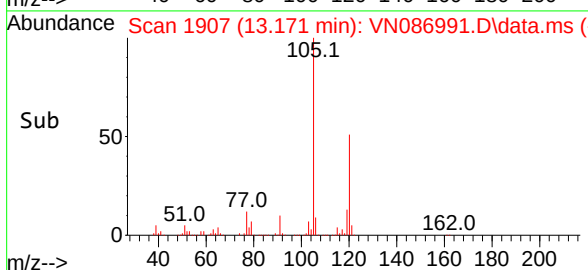
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

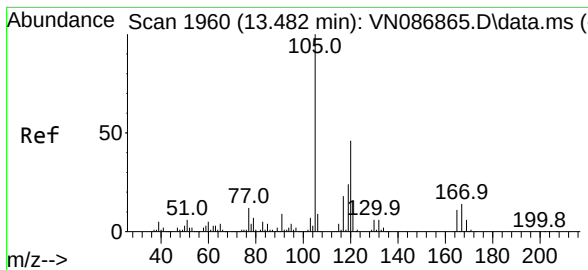


#80
1,3,5-Trimethylbenzene
Concen: 75.567 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26



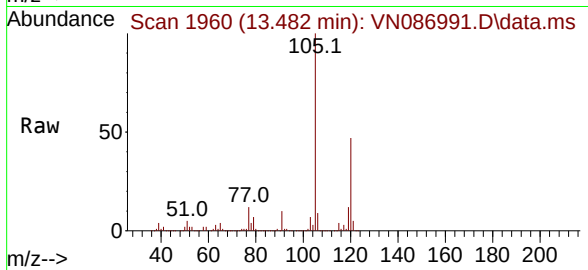
Tgt Ion:105 Resp: 888246
Ion Ratio Lower Upper
105 100
120 51.0 24.9 74.6





#84
1,2,4-Trimethylbenzene
Concen: 271.361 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

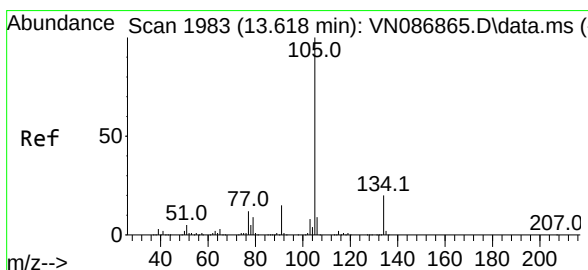
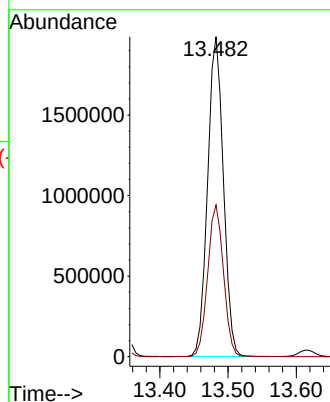
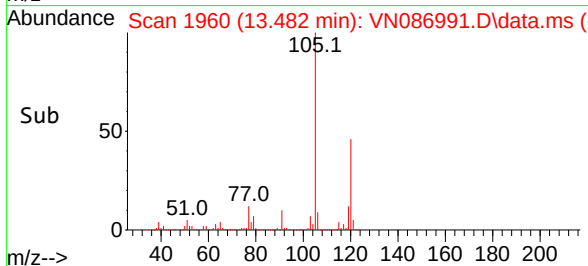
Instrument :
MSVOA_N
ClientSampleId :
MW-2-20250605



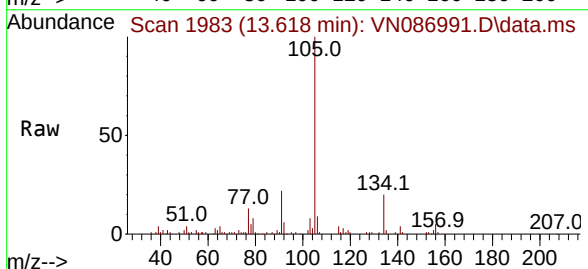
Tgt Ion:105 Resp: 3198494
Ion Ratio Lower Upper
105 100
120 47.5 23.2 69.6

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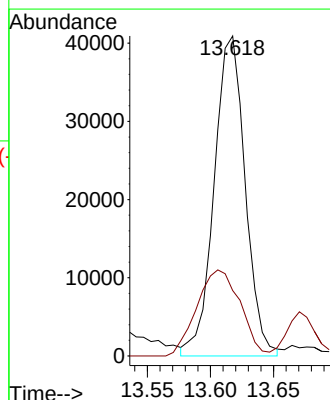
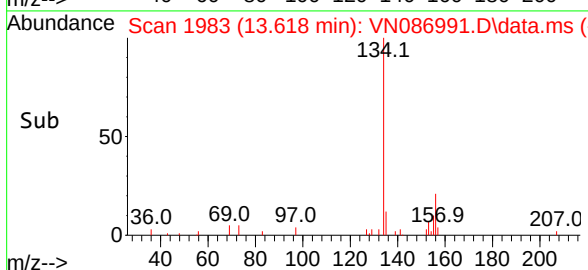
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

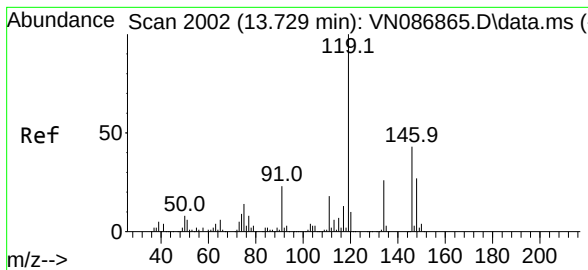


#85
sec-Butylbenzene
Concen: 4.489 ug/l m
RT: 13.618 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26



Tgt Ion:105 Resp: 70137
Ion Ratio Lower Upper
105 100
134 0.0 10.0 30.0#





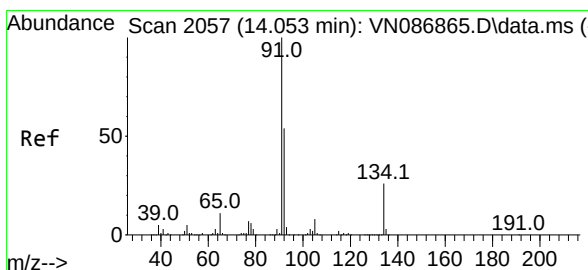
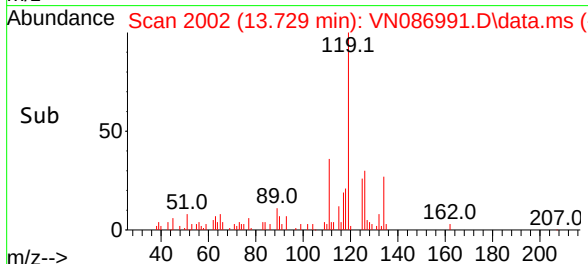
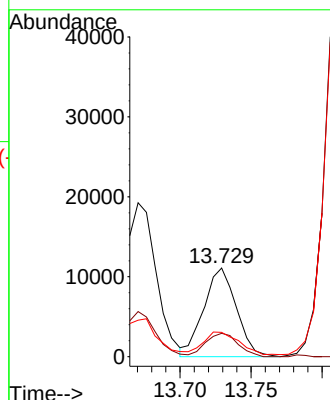
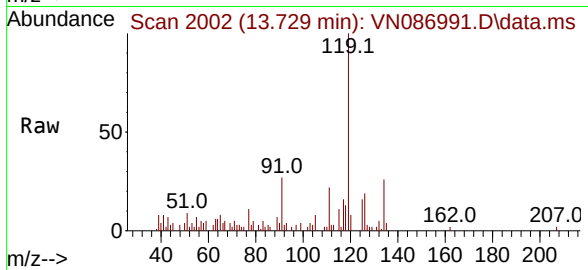
#86
p-Isopropyltoluene
Concen: 1.373 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

Instrument : MSVOA_N
ClientSampleId : MW-2-20250605

Tgt Ion: 119 Resp: 17728
Ion Ratio Lower Upper
119 100
134 26.0 13.5 40.4
91 0.0 11.5 34.4

Manual Integrations
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Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#89
n-Butylbenzene
Concen: 6.715 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086991.D
Acq: 12 Jun 2025 20:26

Tgt Ion: 91 Resp: 84006
Ion Ratio Lower Upper
91 100
92 58.4 27.5 82.4
134 0.0 13.0 39.0

