

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081225\
 Data File : VN087518.D
 Acq On : 12 Aug 2025 16:35
 Operator : JC\MD
 Sample : Q2825-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TW1

Quant Time: Aug 13 03:07:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 08/13/2025
 Supervised By :Mahesh Dadoda 08/14/2025

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

Internal Standards						
1) Pentafluorobenzene	8.212	168	234910	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.088	114	516225	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	475251	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	227450	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	251907	63.199	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 126.400%#			
35) Dibromofluoromethane	8.153	113	180108	50.579	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.160%			
50) Toluene-d8	10.547	98	665301	52.377	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.760%			
62) 4-Bromofluorobenzene	12.829	95	243865	51.965	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.940%			
Target Compounds					Qvalue	
3) Chloromethane	2.389	50	2299	0.733	ug/l #	82
16) Acetone	4.430	43	10449m	5.591	ug/l	
31) Cyclohexane	8.242	56	43683	8.915	ug/l #	96
39) Methylcyclohexane	9.583	83	114829	22.545	ug/l	97
52) Toluene	10.606	92	3002	0.325	ug/l	87
64) Tetrachloroethene	11.077	164	1473	0.482	ug/l	91
67) Ethyl Benzene	11.947	91	22966	1.307	ug/l	96
68) m/p-Xylenes	12.047	106	4870	0.740	ug/l	90
73) Isopropylbenzene	12.677	105	43832	3.062	ug/l	96
78) n-propylbenzene	13.018	91	88844	4.933	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	21769	1.785	ug/l	92
83) tert-Butylbenzene	13.412	119	11684	1.147	ug/l	92
84) 1,2,4-Trimethylbenzene	13.459	105	277175	22.253	ug/l	98
85) sec-Butylbenzene	13.594	105	54115	3.527	ug/l #	67
86) p-Isopropyltoluene	13.706	119	31363	2.550	ug/l	95
89) n-Butylbenzene	14.035	91	47169m	4.017	ug/l	

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

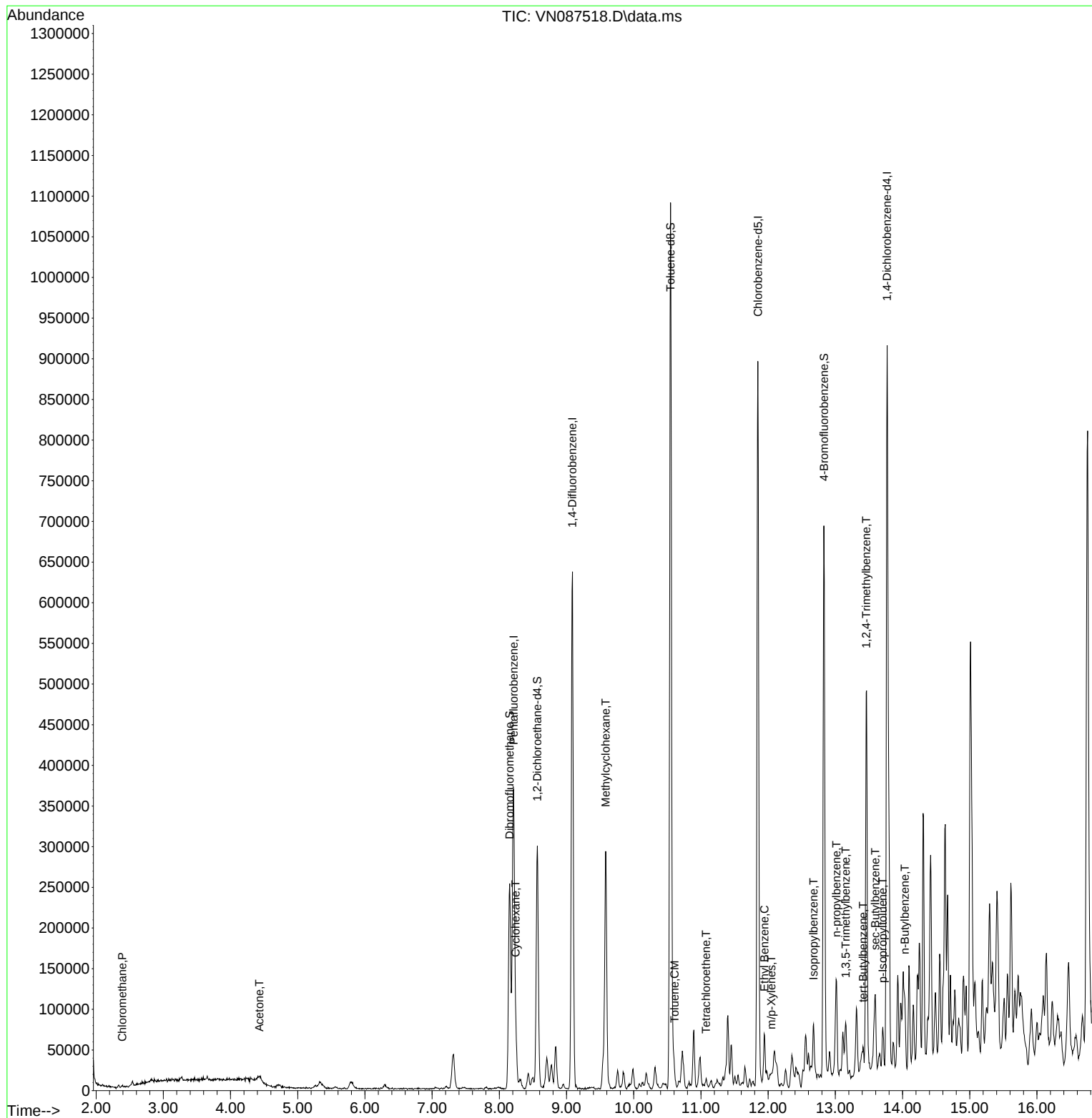
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081225\
Data File : VN087518.D
Acq On : 12 Aug 2025 16:35
Operator : JC\MD
Sample : Q2825-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

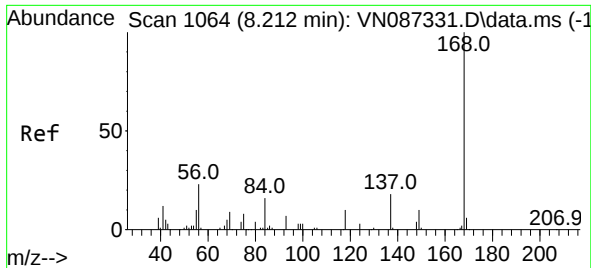
Instrument :
MSVOA_N
ClientSampleId :
TW1

Quant Time: Aug 13 03:07:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

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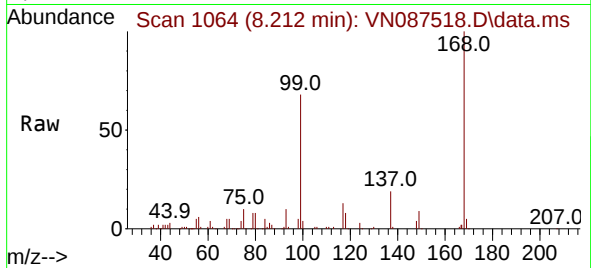
Reviewed By :John Carlone 08/13/2025
Supervised By :Mahesh Dadoda 08/14/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35

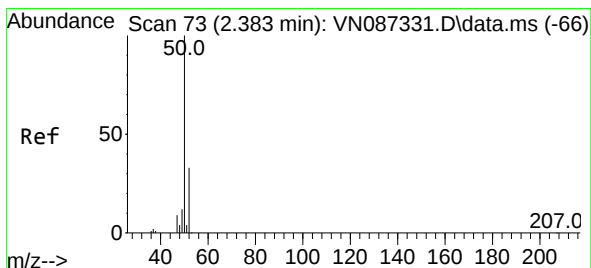
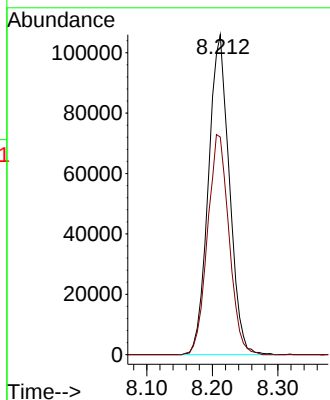
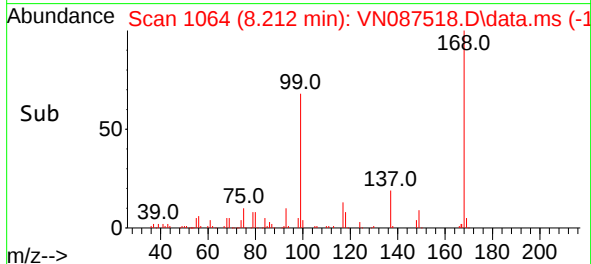
Instrument :
MSVOA_N
ClientSampleId :
TW1



Tgt Ion:168 Resp: 234910
Ion Ratio Lower Upper
168 100
99 68.0 47.9 71.9

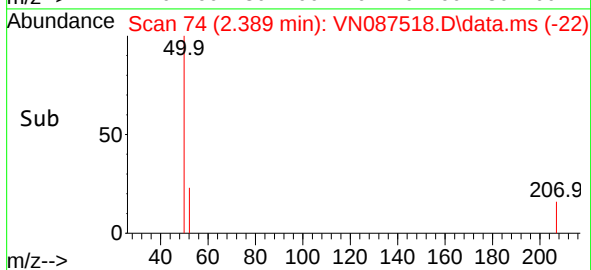
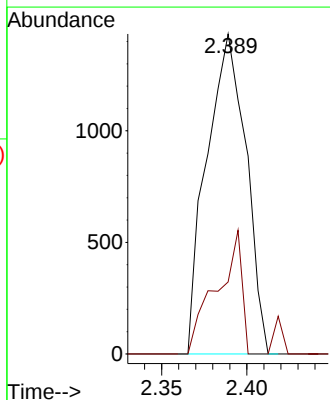
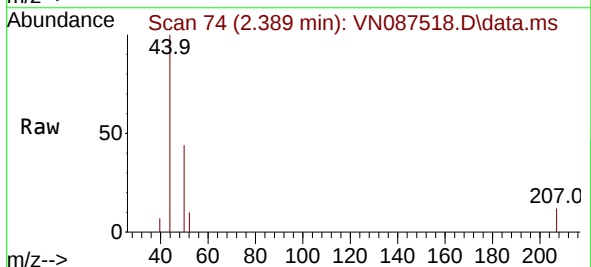
Manual Integrations
APPROVED

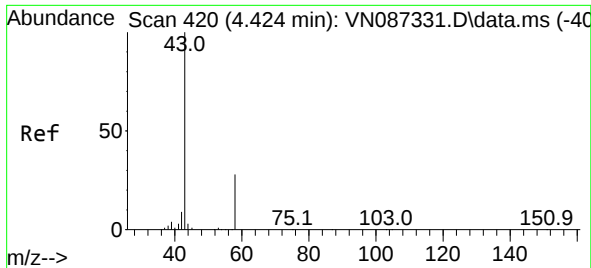
Reviewed By :John Carlone 08/13/2025
Supervised By :Mahesh Dadoda 08/14/2025



#3
Chloromethane
Concen: 0.733 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35

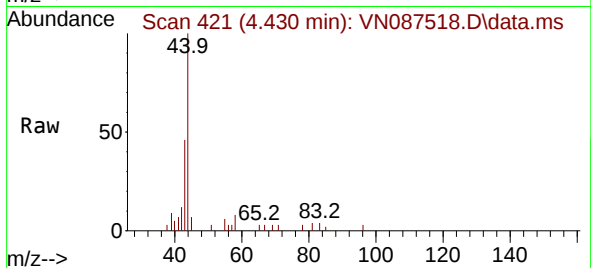
Tgt Ion: 50 Resp: 2299
Ion Ratio Lower Upper
50 100
52 22.5 26.3 39.5#





#16
Acetone
Concen: 5.591 ug/l m
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35

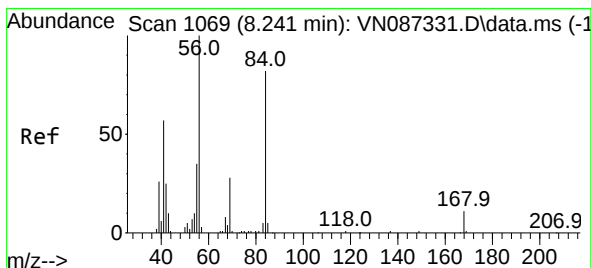
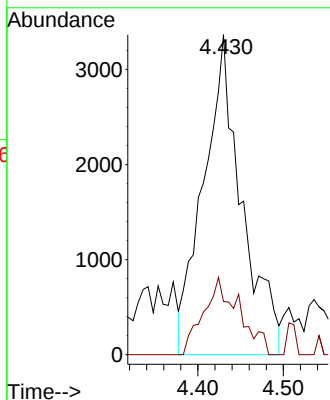
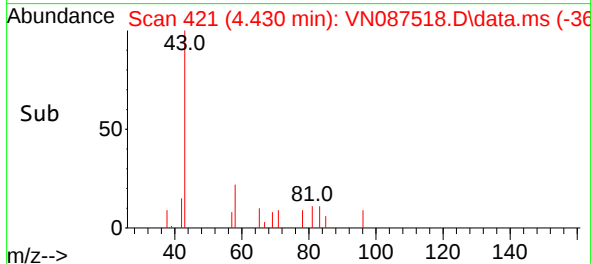
Instrument :
MSVOA_N
ClientSampleId :
TW1



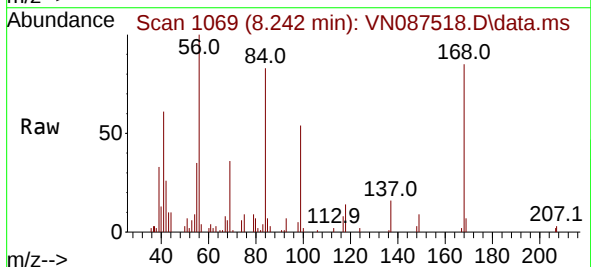
Tgt Ion: 43 Resp: 10449
Ion Ratio Lower Upper
43 100
58 16.6 22.3 33.5

Manual Integrations
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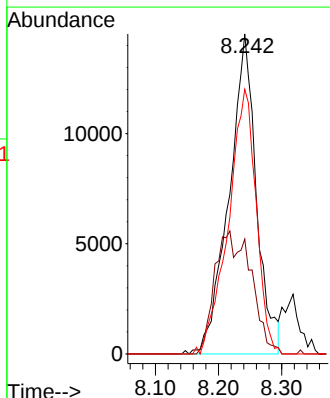
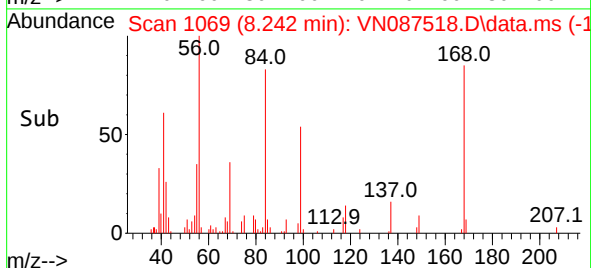
Reviewed By :John Carlone 08/13/2025
Supervised By :Mahesh Dadoda 08/14/2025

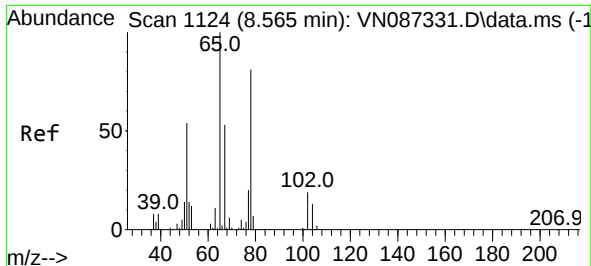


#31
Cyclohexane
Concen: 8.915 ug/l
RT: 8.242 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35



Tgt Ion: 56 Resp: 43683
Ion Ratio Lower Upper
56 100
69 35.9 22.7 34.1#
84 82.7 65.8 98.6





#33

1,2-Dichloroethane-d4

Concen: 63.199 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.000 min

Lab File: VN087518.D

Acq: 12 Aug 2025 16:35

Instrument :

MSVOA_N

ClientSampleId :

TW1

Tgt Ion: 65 Resp: 25190

Ion Ratio Lower Upper

65 100

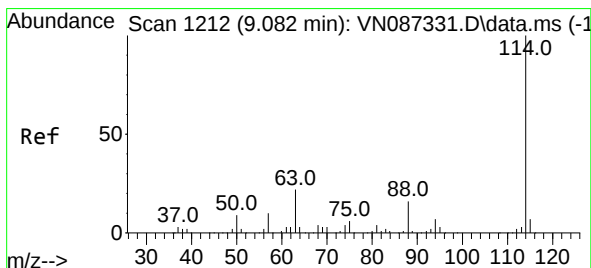
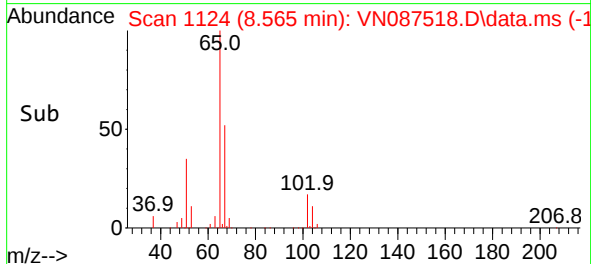
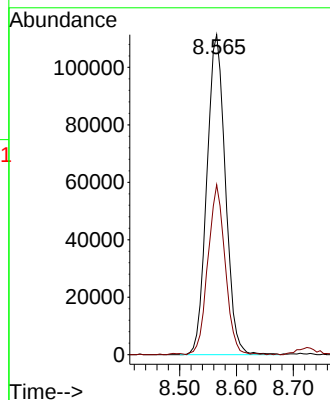
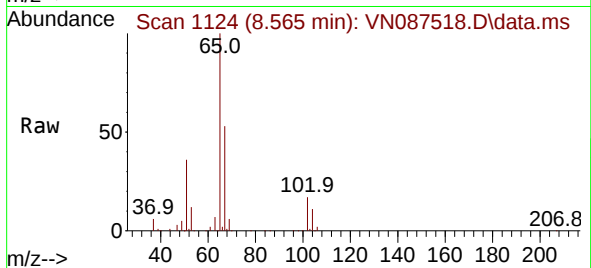
67 49.5 0.0 104.0

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.088 min Scan# 1213

Delta R.T. 0.006 min

Lab File: VN087518.D

Acq: 12 Aug 2025 16:35

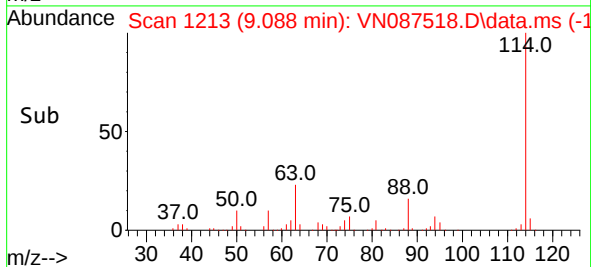
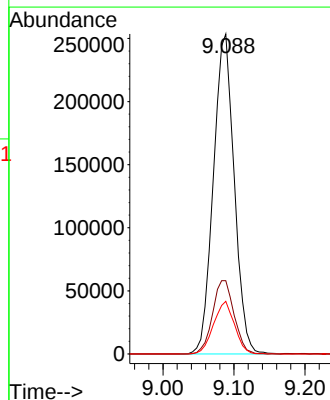
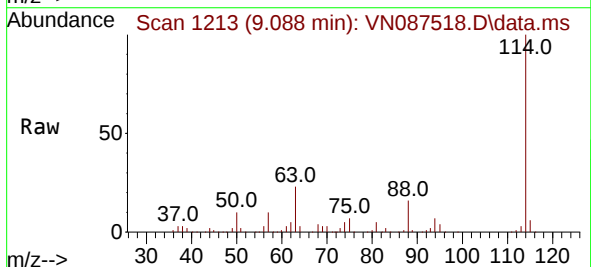
Tgt Ion:114 Resp: 516225

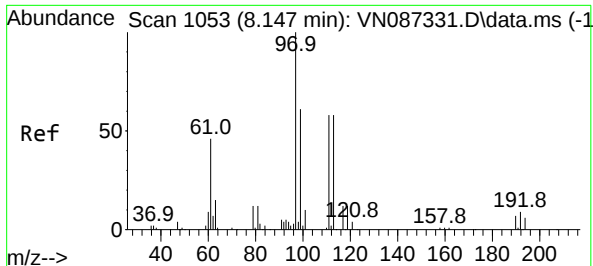
Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.6

88 16.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.579 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087518.D

Acq: 12 Aug 2025 16:35

Instrument :

MSVOA_N

ClientSampleId :

TW1

Tgt Ion: 113 Resp: 180108

Ion Ratio Lower Upper

113 100

111 102.8 82.5 123.7

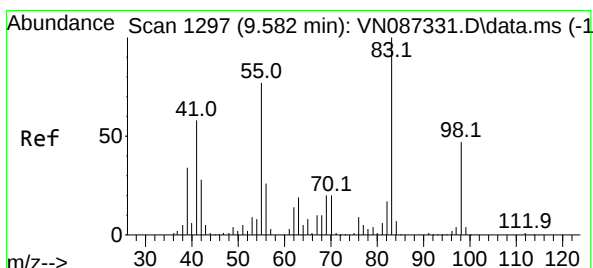
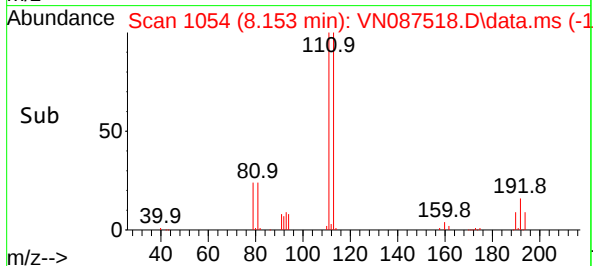
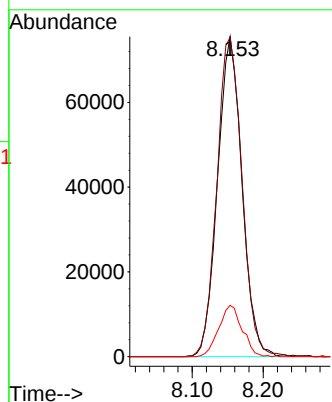
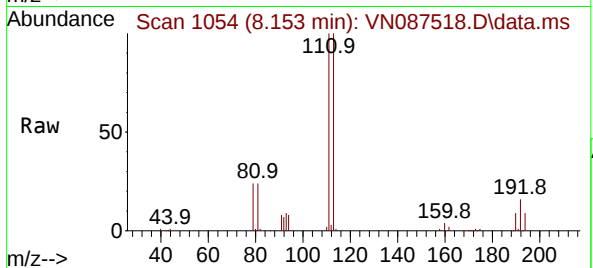
192 15.5 13.7 20.5

Manual Integrations

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Supervised By :Mahesh Dadoda 08/14/2025



#39

Methylcyclohexane

Concen: 22.545 ug/l

RT: 9.583 min Scan# 1297

Delta R.T. 0.000 min

Lab File: VN087518.D

Acq: 12 Aug 2025 16:35

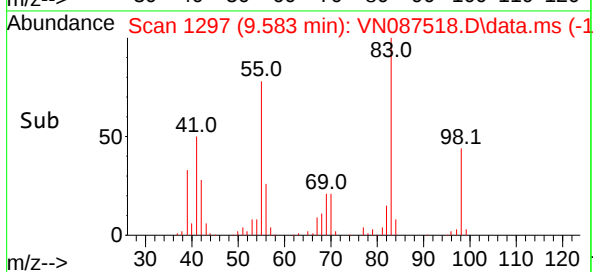
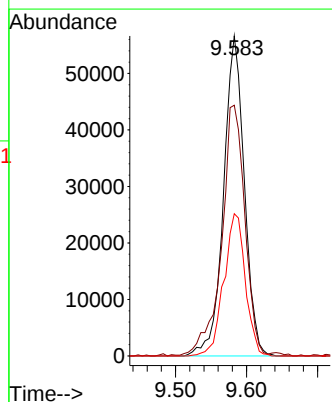
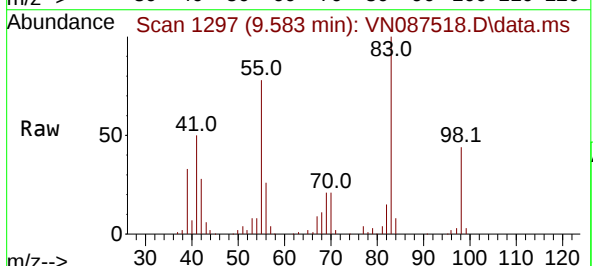
Tgt Ion: 83 Resp: 114829

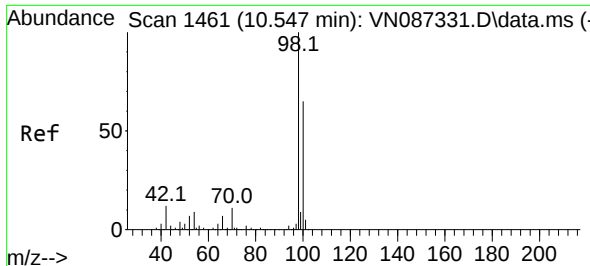
Ion Ratio Lower Upper

83 100

55 78.1 61.3 91.9

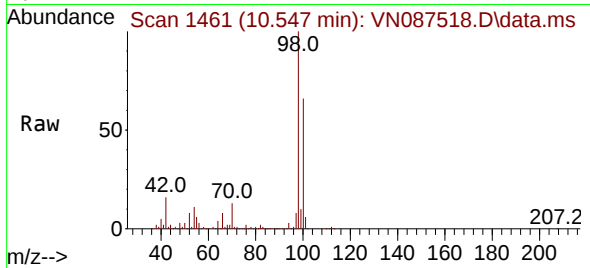
98 44.4 37.9 56.9





#50
Toluene-d8
Concen: 52.377 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35

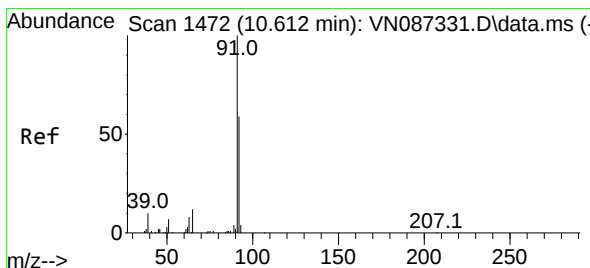
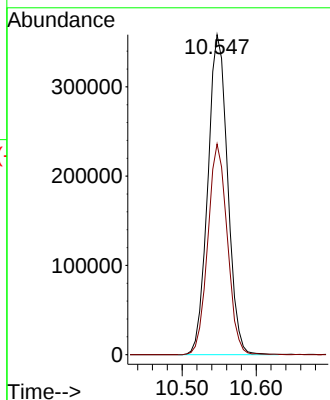
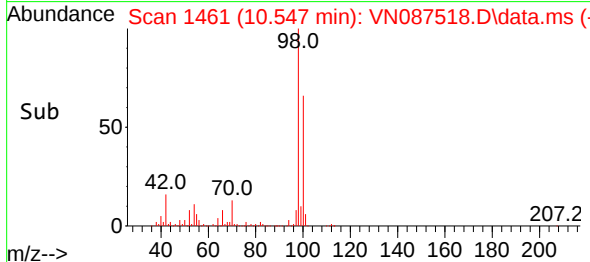
Instrument :
MSVOA_N
ClientSampleId :
TW1



Tgt Ion: 98 Resp: 66530
Ion Ratio Lower Upper
98 100
100 64.7 52.1 78.1

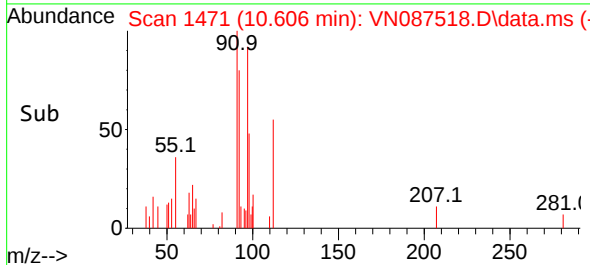
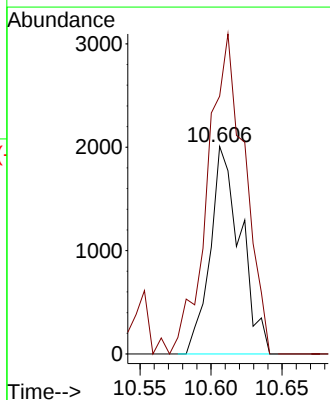
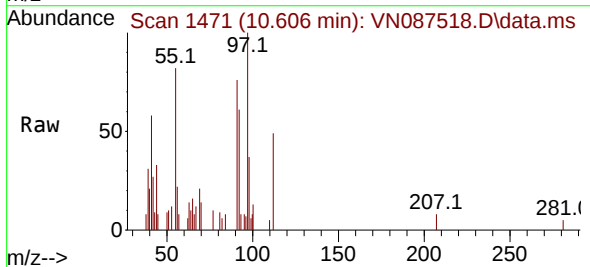
Manual Integrations
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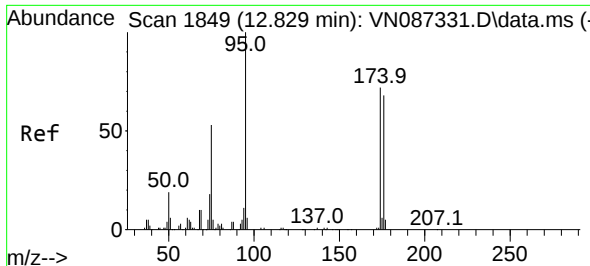
Reviewed By :John Carlone 08/13/2025
Supervised By :Mahesh Dadoda 08/14/2025



#52
Toluene
Concen: 0.325 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35

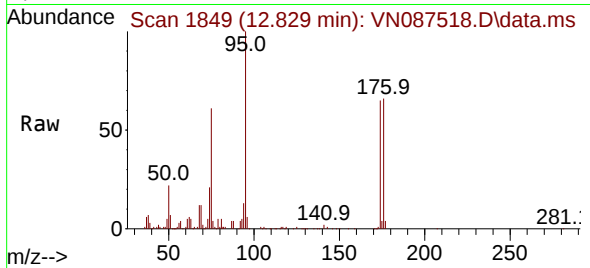
Tgt Ion: 92 Resp: 3002
Ion Ratio Lower Upper
92 100
91 187.3 135.1 202.7





#62
4-Bromofluorobenzene
Concen: 51.965 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35

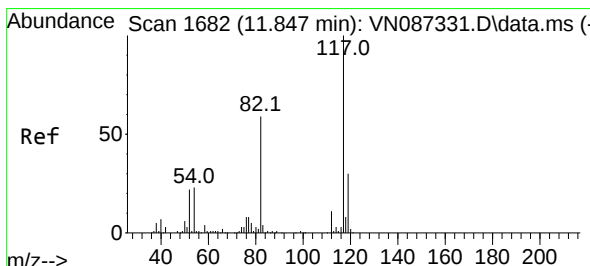
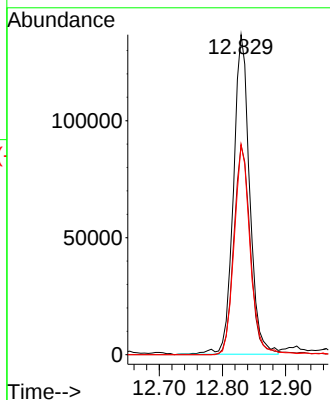
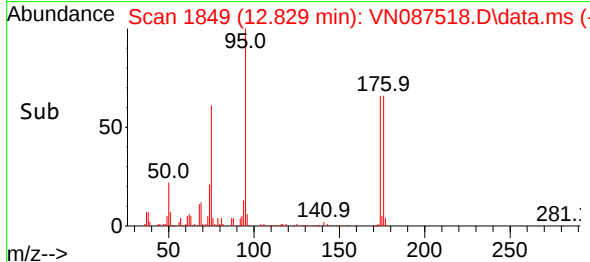
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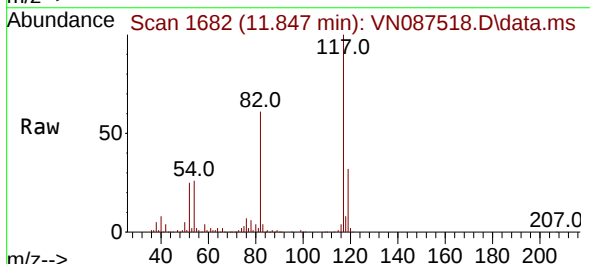
Tgt Ion: 95 Resp: 24386
Ion Ratio Lower Upper
95 100
174 66.9 0.0 149.4
176 64.9 0.0 141.2

Manual Integrations
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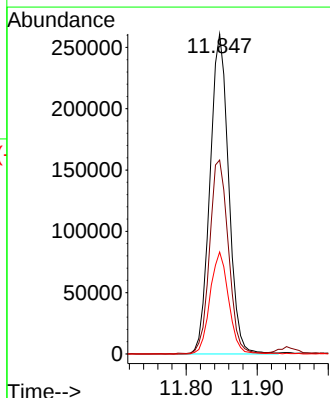
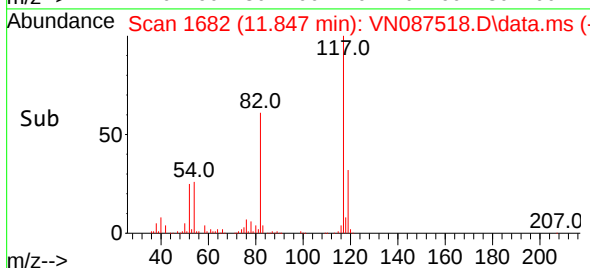
Reviewed By :John Carlone 08/13/2025
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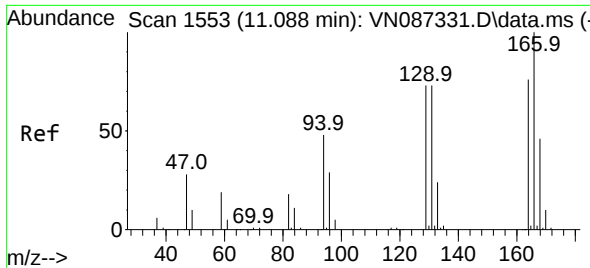


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35



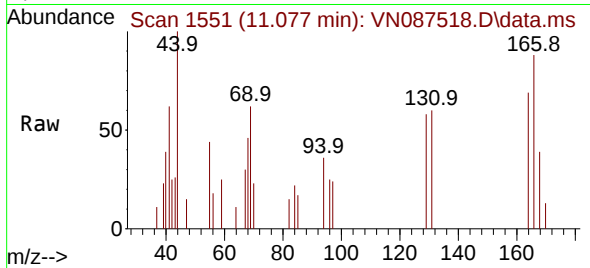
Tgt Ion:117 Resp: 475251
Ion Ratio Lower Upper
117 100
82 60.4 47.4 71.2
119 31.9 23.8 35.8





#64
Tetrachloroethene
Concen: 0.482 ug/l
RT: 11.077 min Scan# 1551
Delta R.T. -0.011 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35

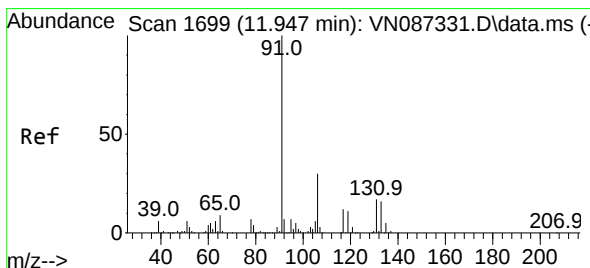
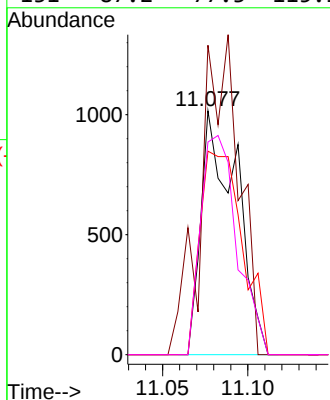
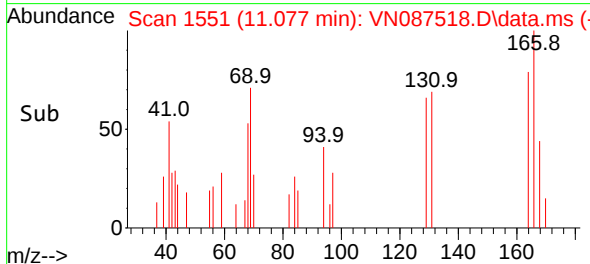
Instrument :
MSVOA_N
ClientSampleId :
TW1



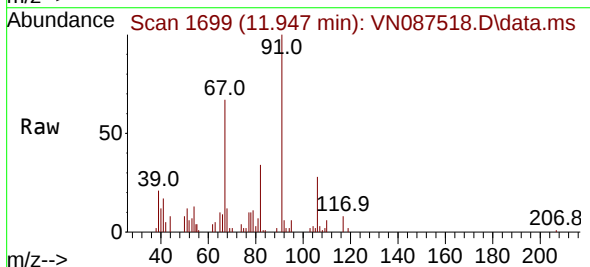
Tgt Ion:164 Resp: 147
Ion Ratio Lower Upper
164 100
166 126.9 105.5 158.3
129 83.5 77.4 116.2
131 87.2 77.3 115.9

Manual Integrations
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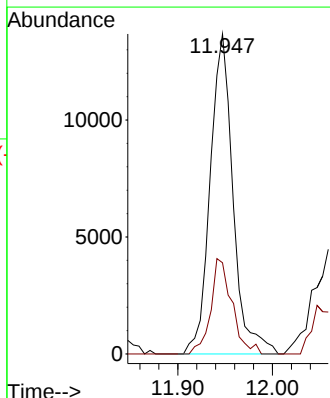
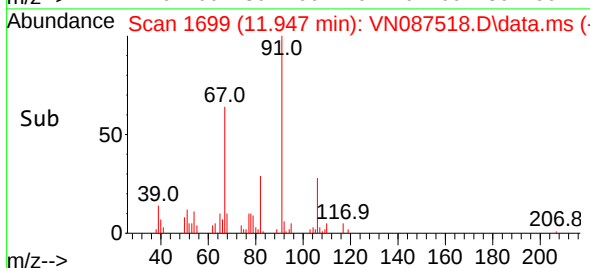
Reviewed By :John Carlone 08/13/2025
Supervised By :Mahesh Dadoda 08/14/2025

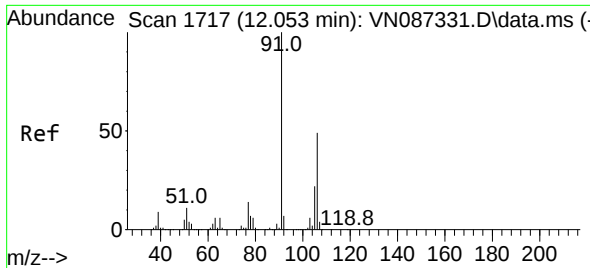


#67
Ethyl Benzene
Concen: 1.307 ug/l
RT: 11.947 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35



Tgt Ion: 91 Resp: 22966
Ion Ratio Lower Upper
91 100
106 28.5 24.3 36.5





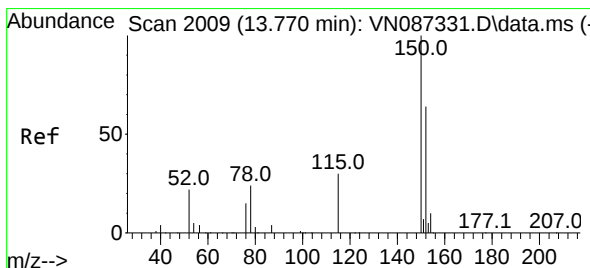
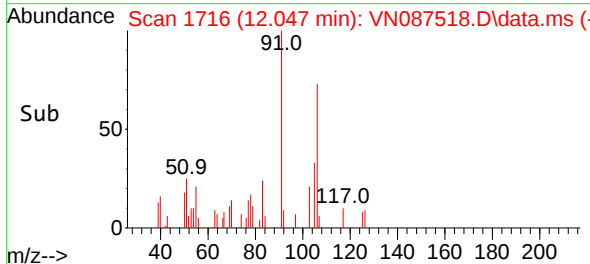
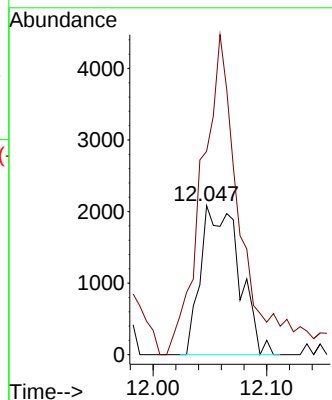
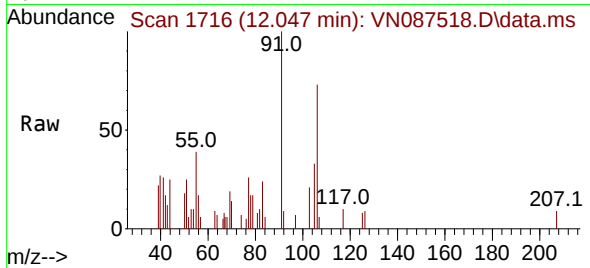
#68
m/p-Xylenes
Concen: 0.740 ug/l
RT: 12.047 min Scan# 1717
Delta R.T. -0.006 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35

Instrument :
MSVOA_N
ClientSampleId :
TW1

Tgt Ion:106 Resp: 4870
Ion Ratio Lower Upper
106 100
91 217.5 162.0 243.0

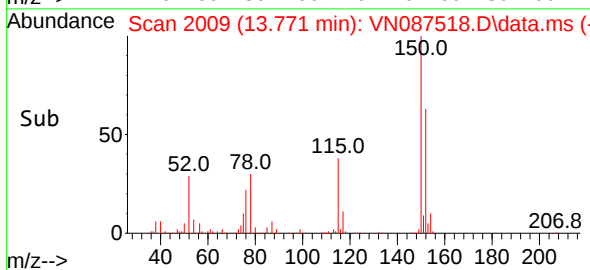
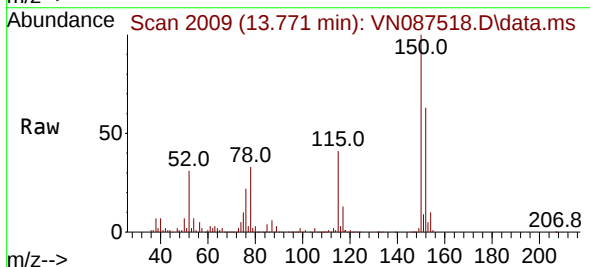
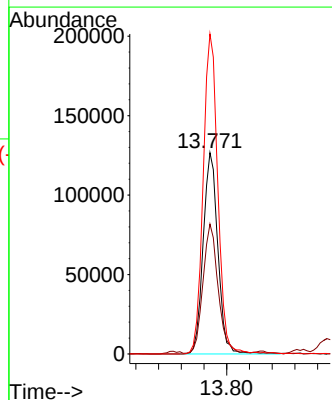
Manual Integrations
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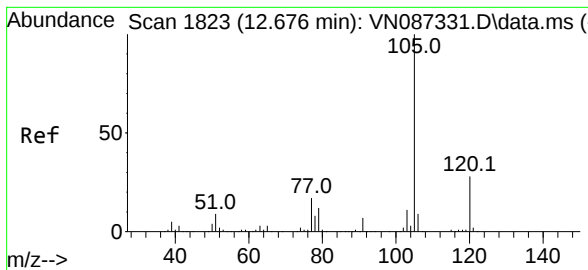
Reviewed By :John Carlone 08/13/2025
Supervised By :Mahesh Dadoda 08/14/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35

Tgt Ion:152 Resp: 227450
Ion Ratio Lower Upper
152 100
115 66.3 31.1 93.5
150 158.3 0.0 349.0





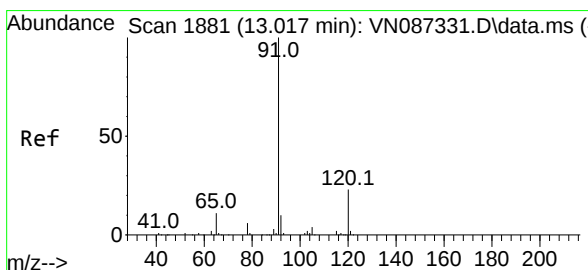
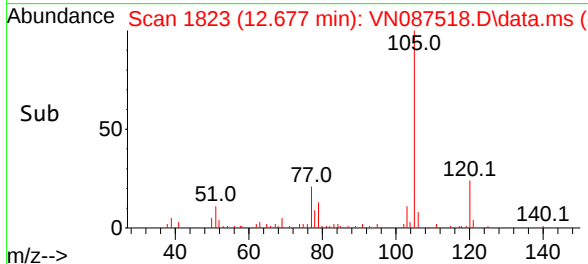
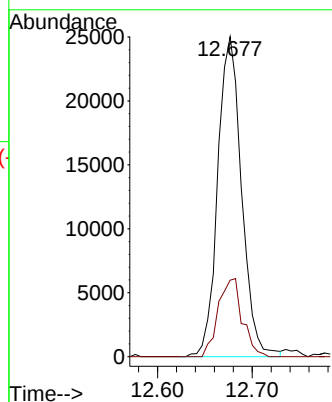
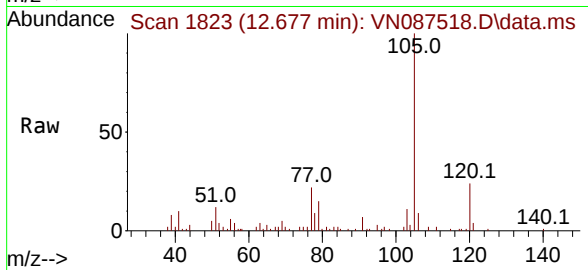
#73
Isopropylbenzene
Concen: 3.062 ug/l
RT: 12.677 min Scan# 1823
Delta R.T. 0.000 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35

Instrument :
MSVOA_N
ClientSampleId :
TW1

Tgt Ion:105 Resp: 43832
Ion Ratio Lower Upper
105 100
120 24.7 13.4 40.1

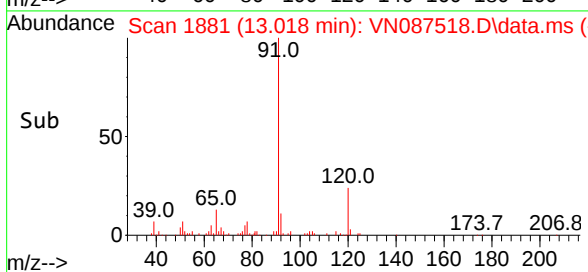
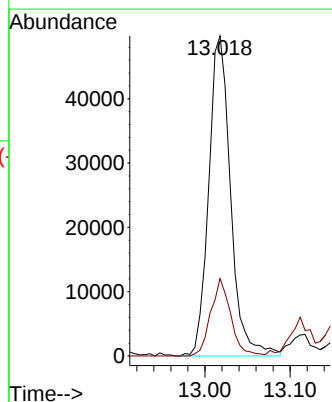
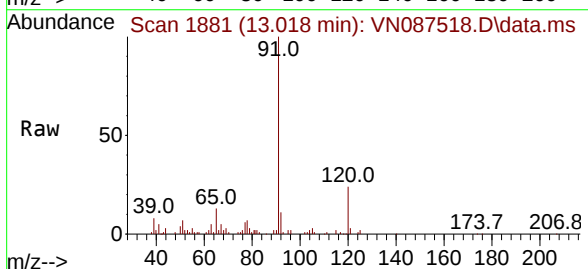
Manual Integrations
APPROVED

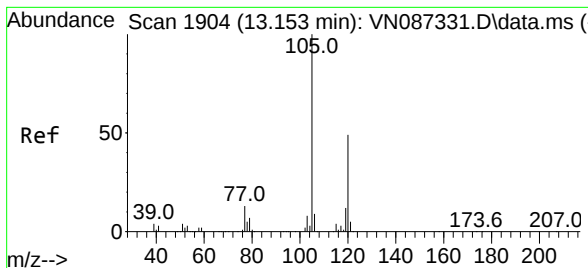
Reviewed By :John Carlone 08/13/2025
Supervised By :Mahesh Dadoda 08/14/2025



#78
n-propylbenzene
Concen: 4.933 ug/l
RT: 13.018 min Scan# 1881
Delta R.T. 0.000 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35

Tgt Ion: 91 Resp: 88844
Ion Ratio Lower Upper
91 100
120 22.1 11.3 33.8





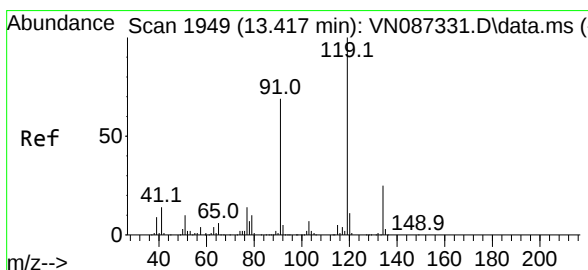
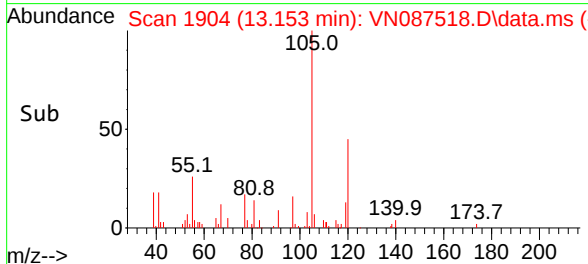
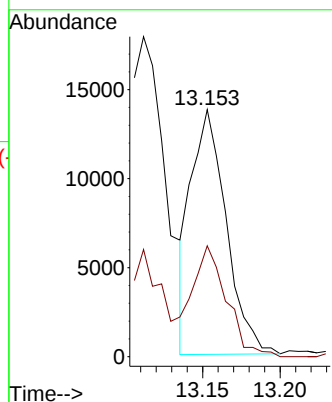
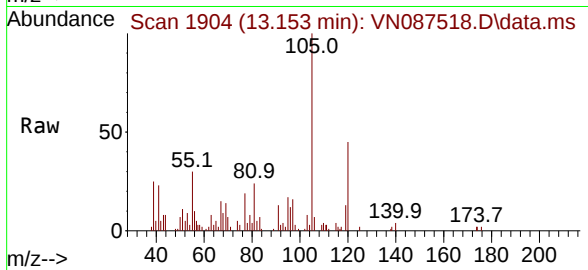
#80
1,3,5-Trimethylbenzene
Concen: 1.785 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35

Instrument :
MSVOA_N
ClientSampleId :
TW1

Tgt Ion:105 Resp: 21769
Ion Ratio Lower Upper
105 100
120 43.0 24.3 72.8

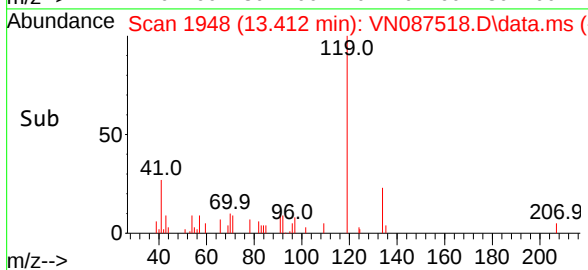
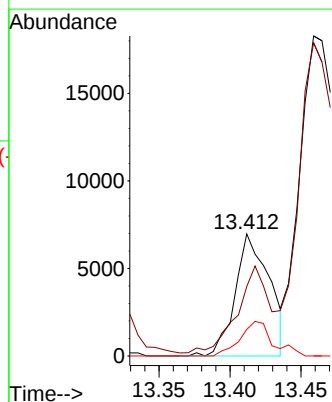
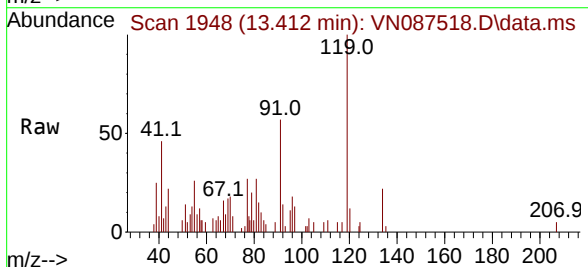
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APPROVED

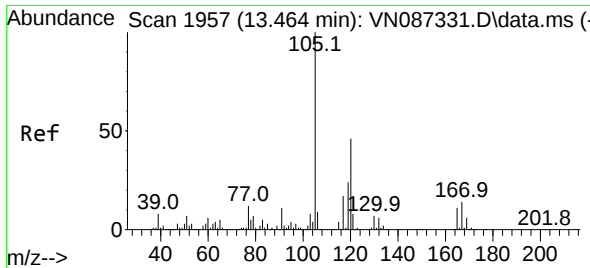
Reviewed By :John Carlone 08/13/2025
Supervised By :Mahesh Dadoda 08/14/2025



#83
tert-Butylbenzene
Concen: 1.147 ug/l
RT: 13.412 min Scan# 1948
Delta R.T. -0.006 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35

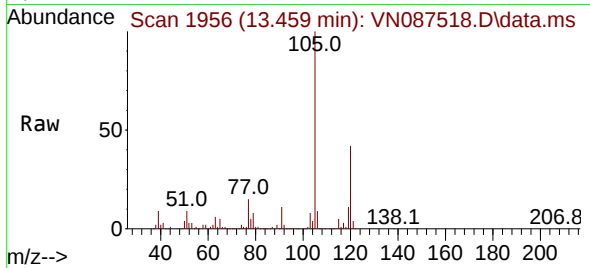
Tgt Ion:119 Resp: 11684
Ion Ratio Lower Upper
119 100
91 62.3 35.0 105.1
134 26.6 12.6 37.6





#84
 1,2,4-Trimethylbenzene
 Concen: 22.253 ug/l
 RT: 13.459 min Scan# 1956
 Delta R.T. -0.006 min
 Lab File: VN087518.D
 Acq: 12 Aug 2025 16:35

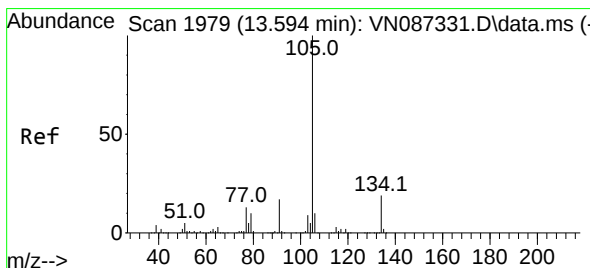
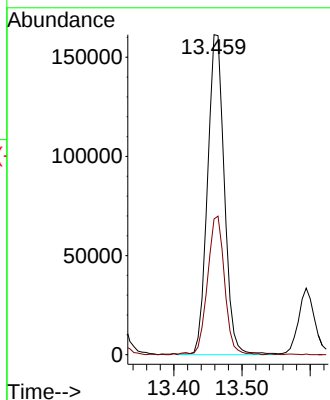
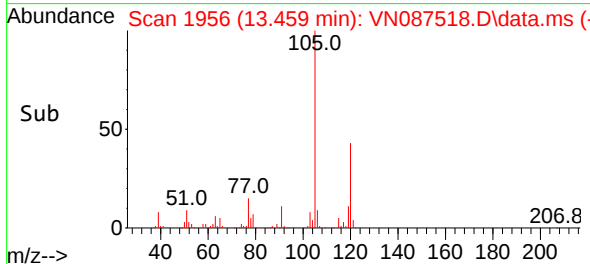
Instrument :
 MSVOA_N
 ClientSampleId :
 TW1



Tgt Ion:105 Resp: 27717
 Ion Ratio Lower Upper
 105 100
 120 43.9 22.8 68.3

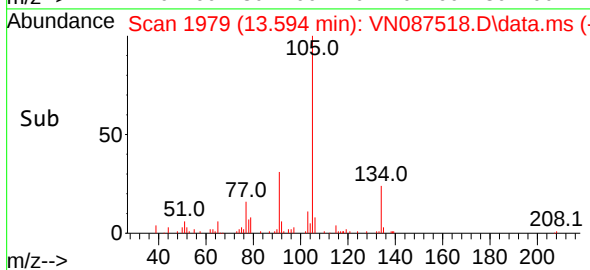
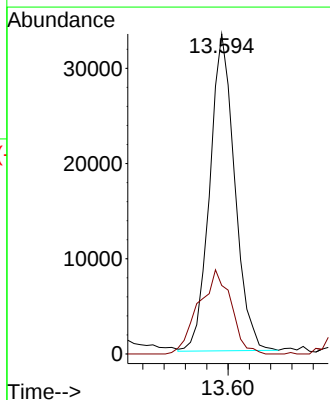
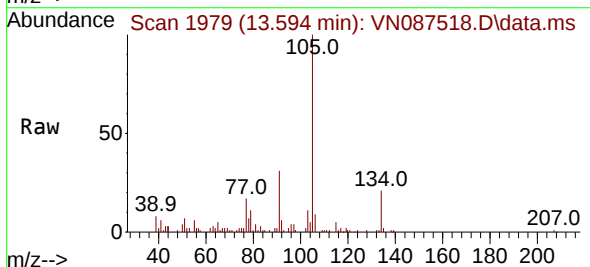
Manual Integrations
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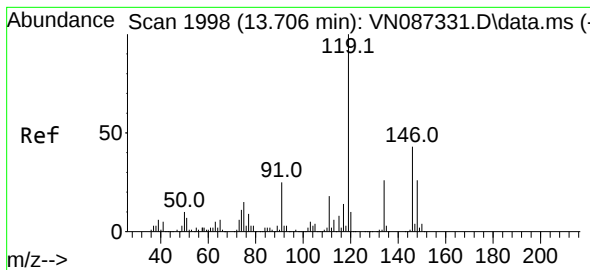
Reviewed By :John Carlone 08/13/2025
 Supervised By :Mahesh Dadoda 08/14/2025



#85
 sec-Butylbenzene
 Concen: 3.527 ug/l
 RT: 13.594 min Scan# 1979
 Delta R.T. 0.000 min
 Lab File: VN087518.D
 Acq: 12 Aug 2025 16:35

Tgt Ion:105 Resp: 54115
 Ion Ratio Lower Upper
 105 100
 134 34.4 9.8 29.4#





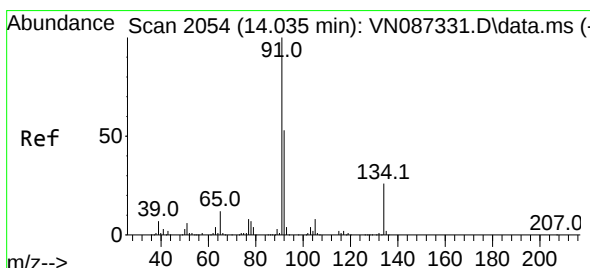
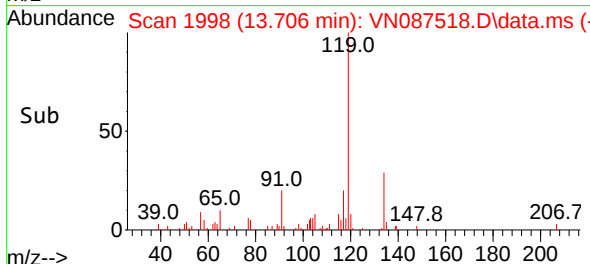
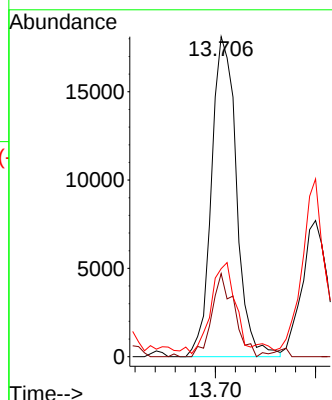
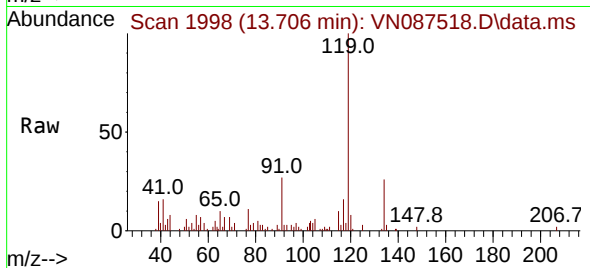
#86
p-Isopropyltoluene
Concen: 2.550 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35

Instrument :
MSVOA_N
ClientSampleId :
TW1

Tgt Ion:119 Resp: 3136
Ion Ratio Lower Upper
119 100
134 23.6 13.5 40.5
91 25.8 12.2 36.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/13/2025
Supervised By :Mahesh Dadoda 08/14/2025



#89
n-Butylbenzene
Concen: 4.017 ug/l m
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN087518.D
Acq: 12 Aug 2025 16:35

Tgt Ion: 91 Resp: 47169
Ion Ratio Lower Upper
91 100
92 53.7 26.2 78.6
134 0.0 12.4 37.2#

