

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
 Data File : VN088384.D
 Acq On : 01 Dec 2025 15:35
 Operator : JC\MD
 Sample : Q3738-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW5

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/02/2025
 Supervised By : Mahesh Dadoda 12/02/2025

Quant Time: Dec 02 00:15:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	217967	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	497394	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	489259	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	246573	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	241790	58.886	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.780%			
35) Dibromofluoromethane	8.147	113	178029	51.649	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.300%			
50) Toluene-d8	10.541	98	658018	51.307	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.620%			
62) 4-Bromofluorobenzene	12.823	95	248976	56.578	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 113.160%			
Target Compounds					Qvalue	
31) Cyclohexane	8.241	56	540851	100.155	ug/l	97
39) Methylcyclohexane	9.576	83	622703	109.435	ug/l	96
40) Benzene	8.588	78	586094	37.538	ug/l	99
52) Toluene	10.612	92	36729	4.074	ug/l	94
67) Ethyl Benzene	11.941	91	77140	4.016	ug/l	93
68) m/p-Xylenes	12.047	106	39920	5.605	ug/l	90
69) o-Xylene	12.376	106	11871m	1.748	ug/l	
73) Isopropylbenzene	12.670	105	518465	28.438	ug/l	99
78) n-propylbenzene	13.012	91	1242004	55.686	ug/l	99
83) tert-Butylbenzene	13.412	119	14471	1.127	ug/l	95
84) 1,2,4-Trimethylbenzene	13.464	105	9005	0.600	ug/l	91
85) sec-Butylbenzene	13.594	105	131324	7.118	ug/l #	73
86) p-Isopropyltoluene	13.706	119	11708	0.774	ug/l	93
89) n-Butylbenzene	14.035	91	123015m	8.375	ug/l	

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

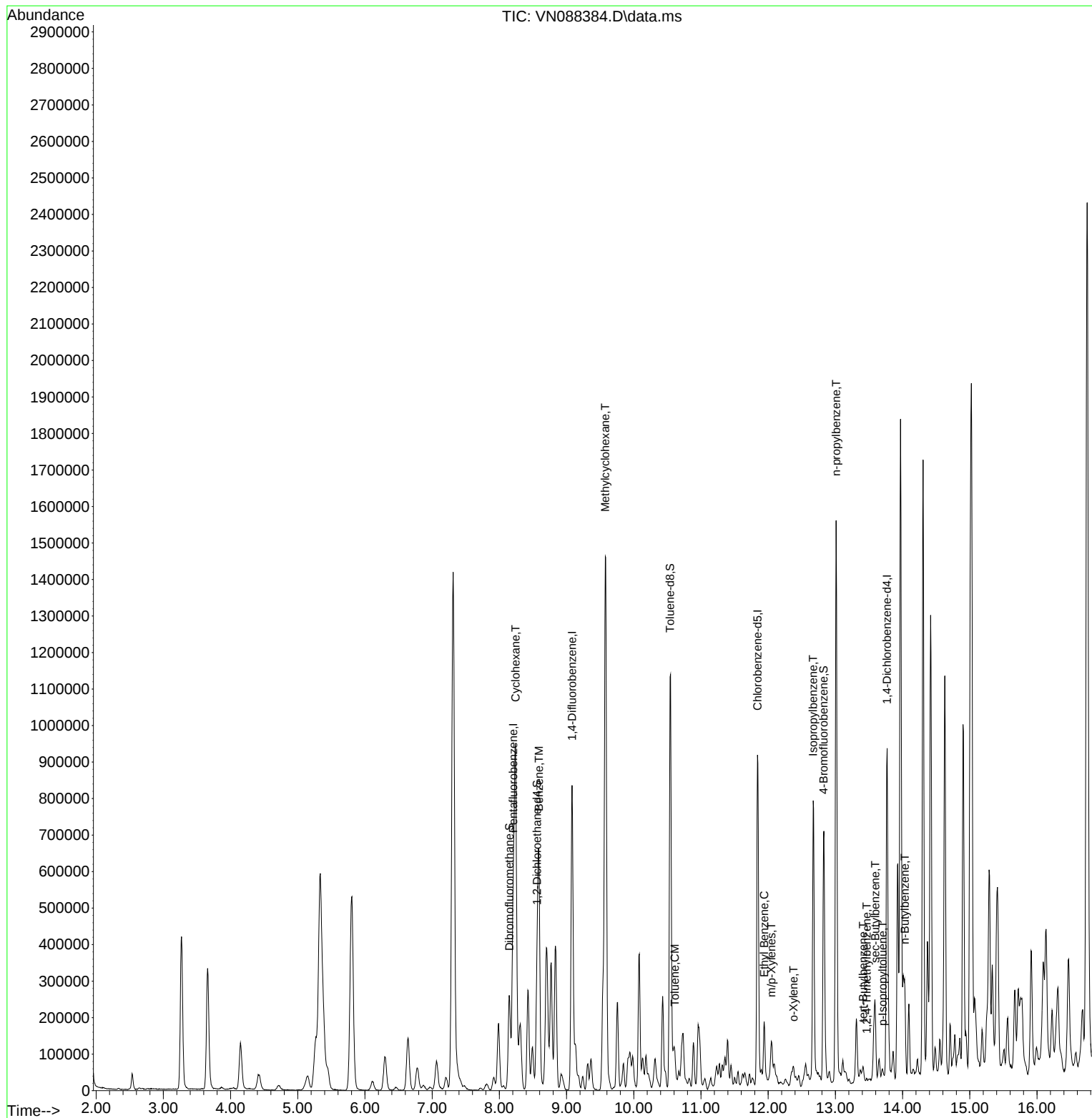
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120125\
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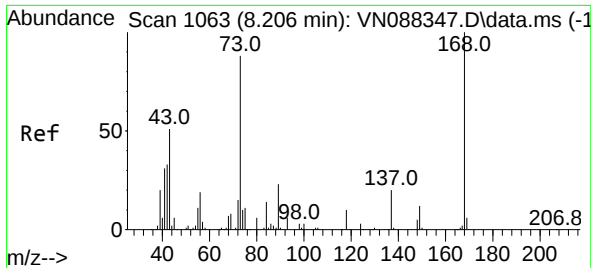
Instrument :
MSVOA_N
ClientSampleId :
MW5

Quant Time: Dec 02 00:15:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
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APPROVED

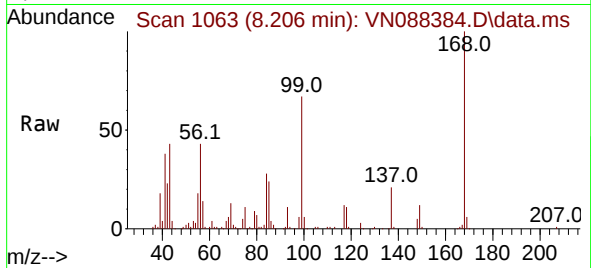
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

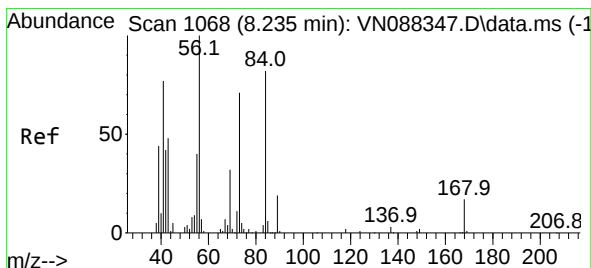
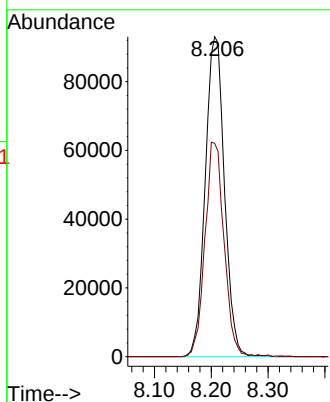
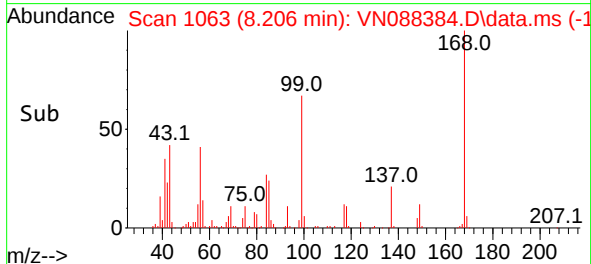
Instrument :
MSVOA_N
ClientSampleId :
MW5



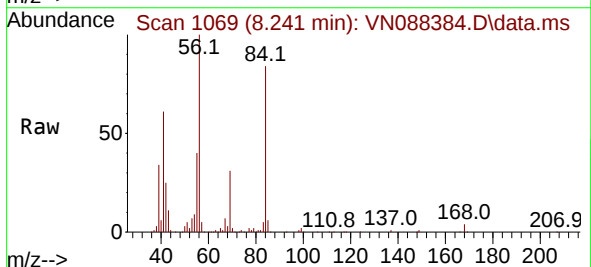
Tgt Ion:168 Resp: 21796
Ion Ratio Lower Upper
168 100
99 66.6 57.1 85.7

Manual Integrations
APPROVED

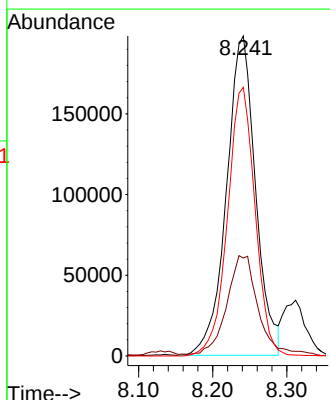
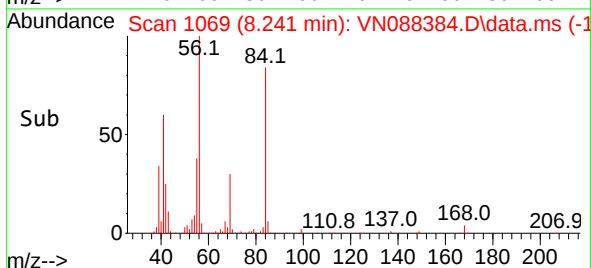
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025

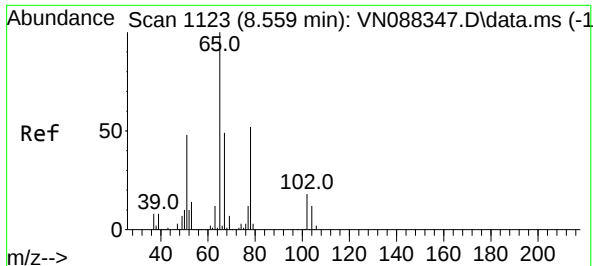


#31
Cyclohexane
Concen: 100.155 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.006 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35



Tgt Ion: 56 Resp: 540851
Ion Ratio Lower Upper
56 100
69 30.2 25.3 37.9
84 84.1 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 58.886 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088384.D

Acq: 01 Dec 2025 15:35

Instrument :

MSVOA_N

ClientSampleId :

MW5

Tgt Ion: 65 Resp: 241790

Ion Ratio Lower Upper

65 100

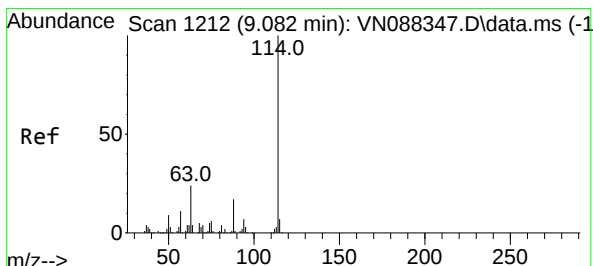
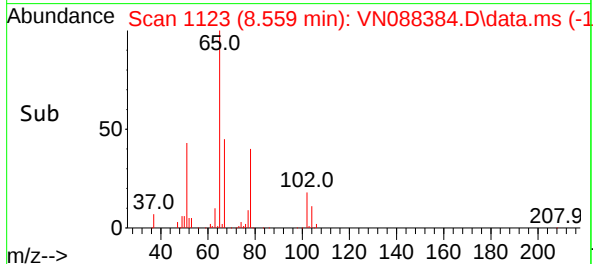
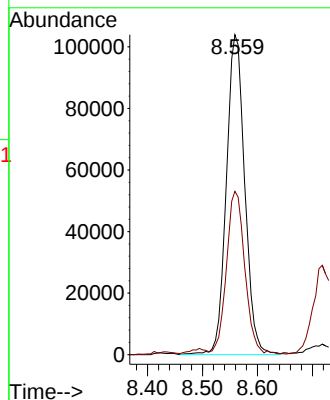
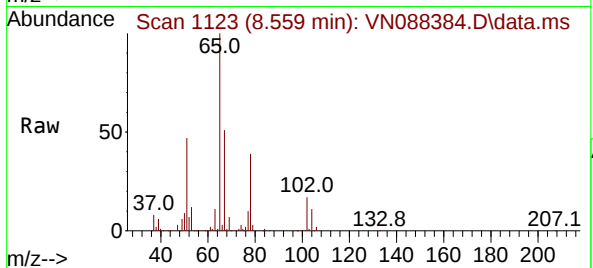
67 50.8 0.0 100.8

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088384.D

Acq: 01 Dec 2025 15:35

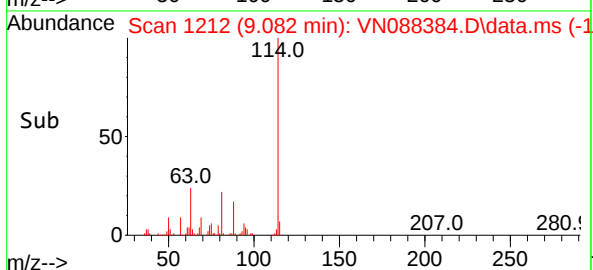
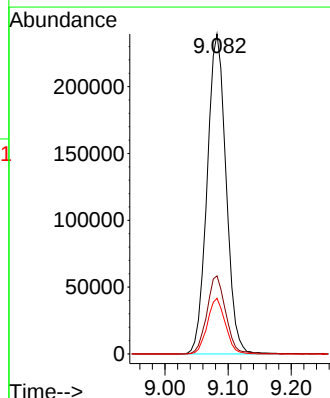
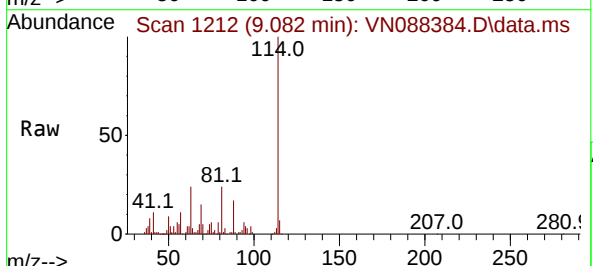
Tgt Ion:114 Resp: 497394

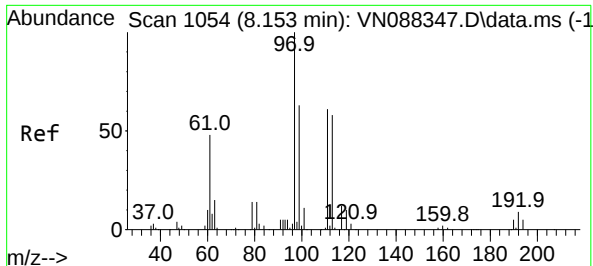
Ion Ratio Lower Upper

114 100

63 24.4 0.0 49.0

88 17.4 0.0 34.0





#35

Dibromofluoromethane

Concen: 51.649 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088384.D

Acq: 01 Dec 2025 15:35

Instrument :

MSVOA_N

ClientSampleId :

MW5

Tgt Ion: 113 Resp: 178029

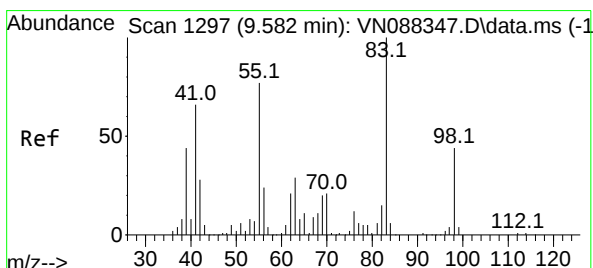
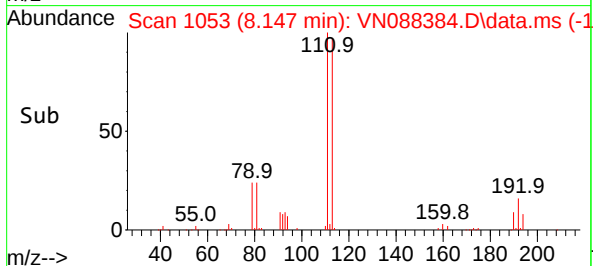
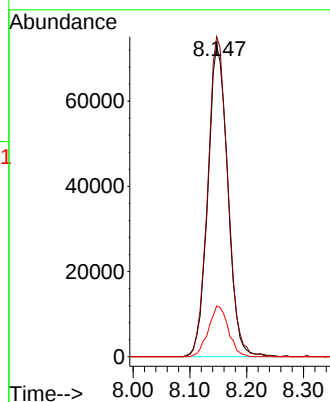
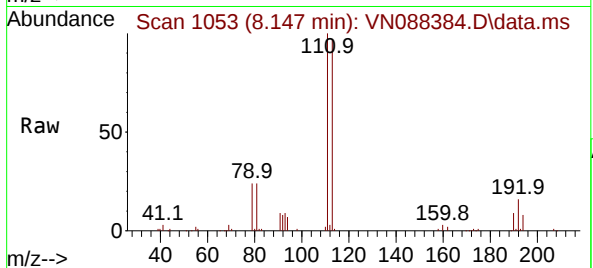
Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.5	123.7
192	16.3	12.8	19.2

Manual Integrations

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#39

Methylcyclohexane

Concen: 109.435 ug/l

RT: 9.576 min Scan# 1296

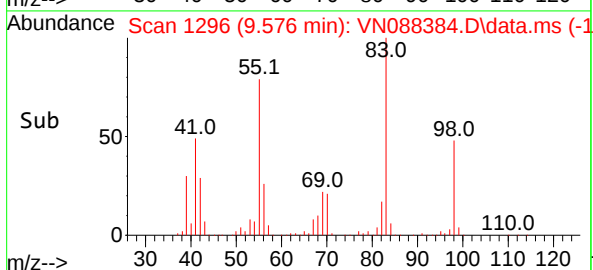
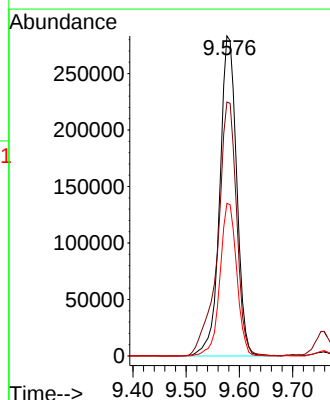
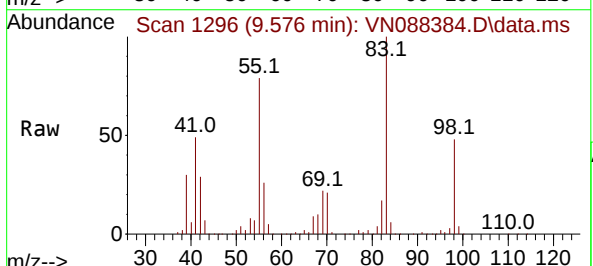
Delta R.T. -0.006 min

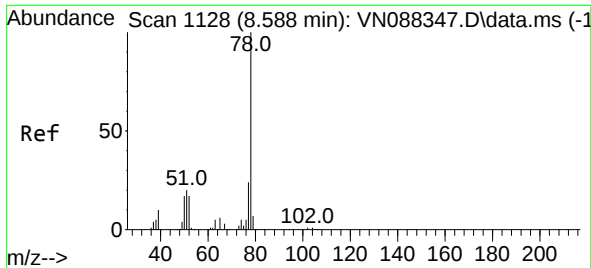
Lab File: VN088384.D

Acq: 01 Dec 2025 15:35

Tgt Ion: 83 Resp: 622703

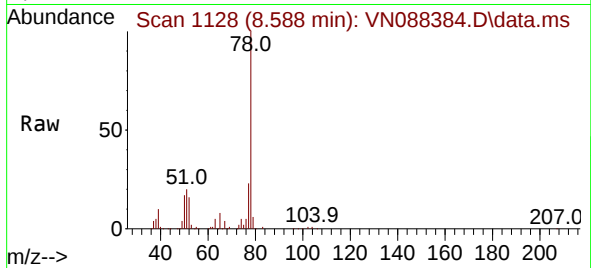
Ion	Ratio	Lower	Upper
83	100		
55	79.3	61.6	92.4
98	47.7	35.3	52.9





#40
Benzene
Concen: 37.538 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

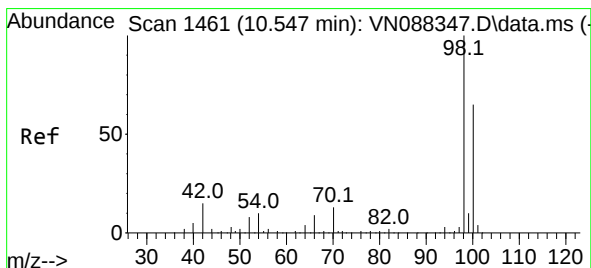
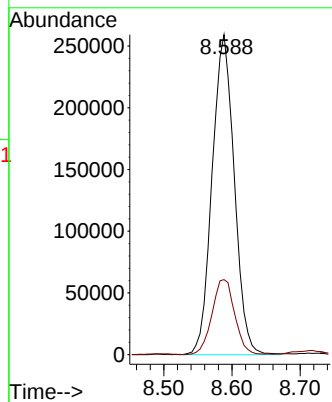
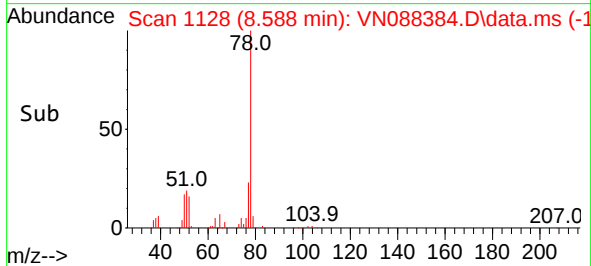
Instrument :
MSVOA_N
ClientSampleId :
MW5



Tgt Ion: 78 Resp: 586094
Ion Ratio Lower Upper
78 100
77 23.3 19.0 28.4

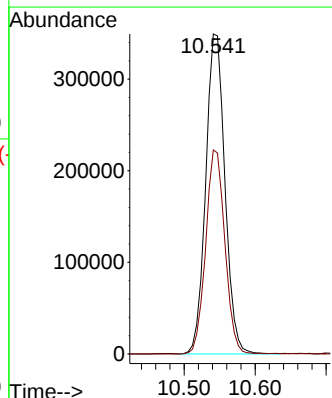
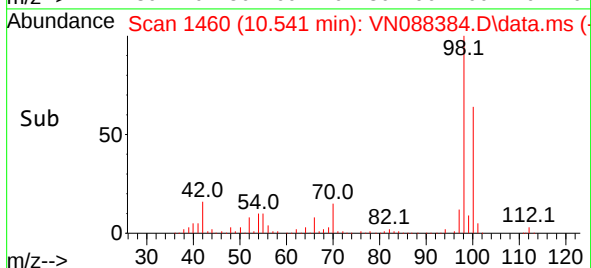
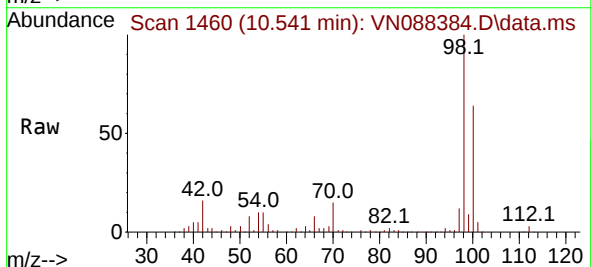
Manual Integrations
APPROVED

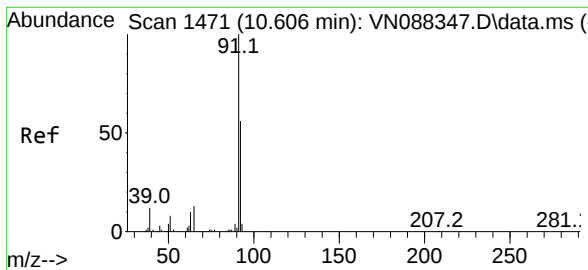
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#50
Toluene-d8
Concen: 51.307 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

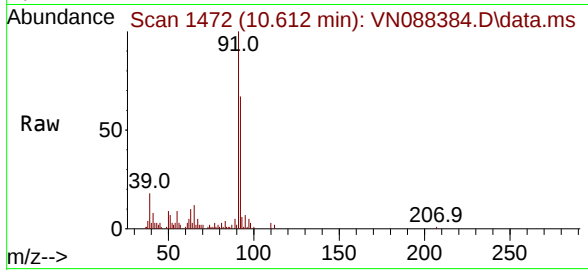
Tgt Ion: 98 Resp: 658018
Ion Ratio Lower Upper
98 100
100 63.5 52.2 78.2





#52
Toluene
Concen: 4.074 ug/l
RT: 10.612 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

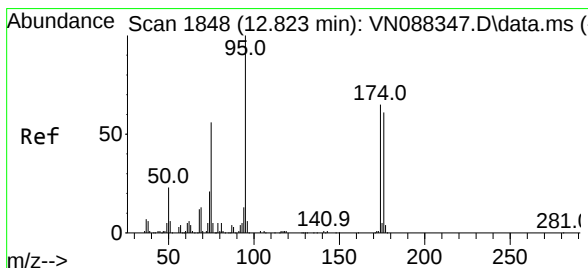
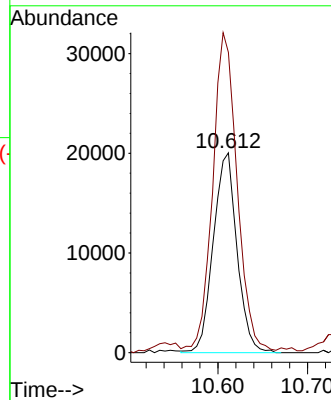
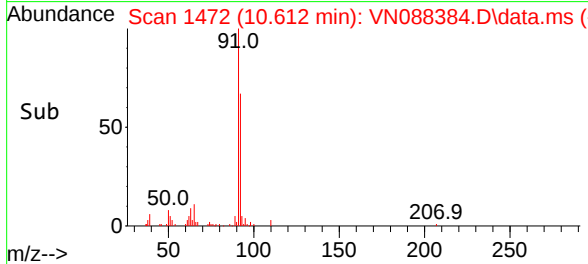
Instrument :
MSVOA_N
ClientSampleId :
MW5



Tgt Ion: 92 Resp: 36729
Ion Ratio Lower Upper
92 100
91 166.8 140.2 210.2

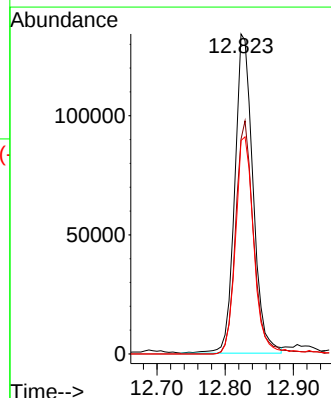
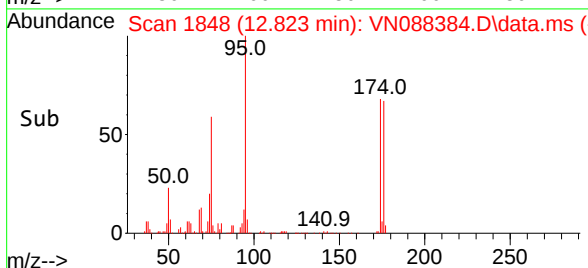
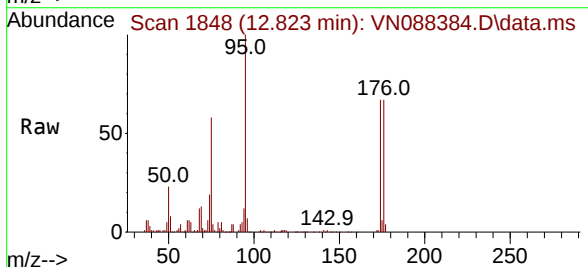
Manual Integrations
APPROVED

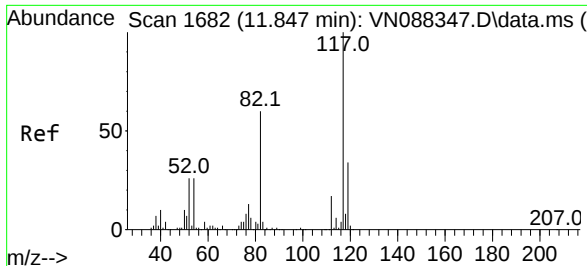
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#62
4-Bromofluorobenzene
Concen: 56.578 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

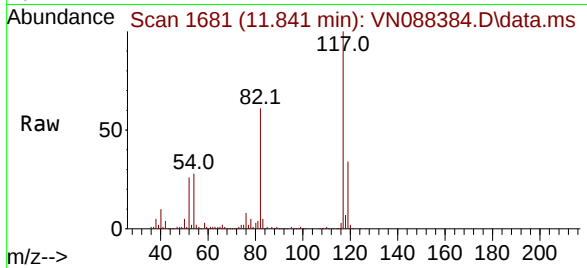
Tgt Ion: 95 Resp: 248976
Ion Ratio Lower Upper
95 100
174 72.0 0.0 139.0
176 68.3 0.0 132.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

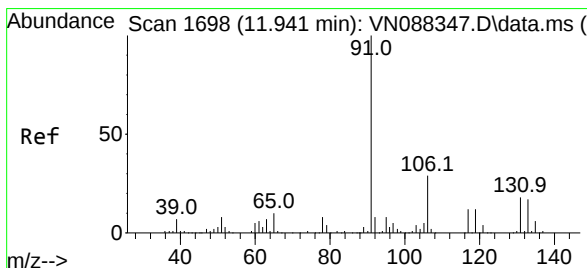
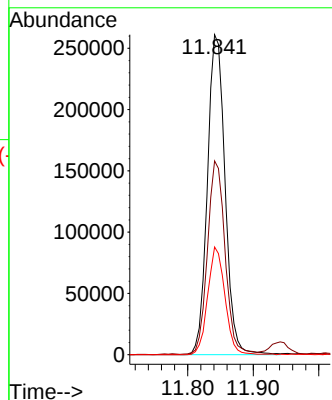
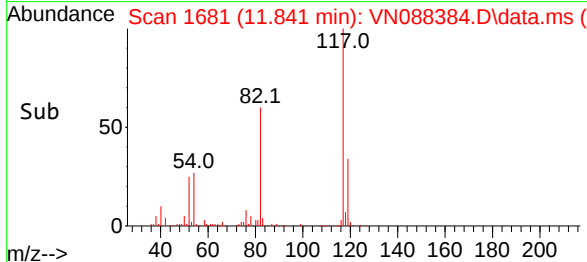
Instrument :
MSVOA_N
ClientSampleId :
MW5



Tgt Ion:117 Resp: 489259
Ion Ratio Lower Upper
117 100
82 60.5 47.8 71.8
119 33.7 26.9 40.3

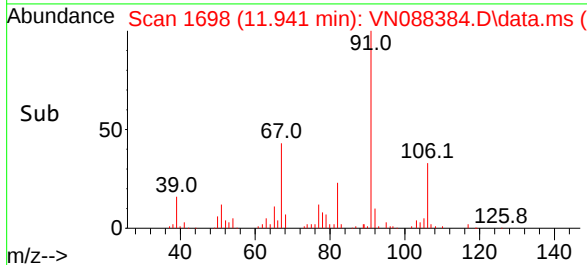
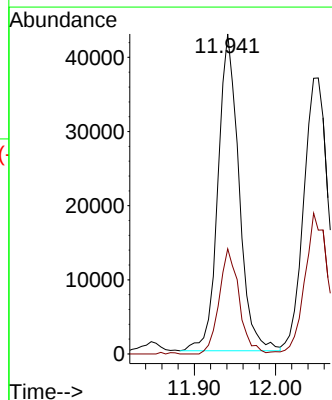
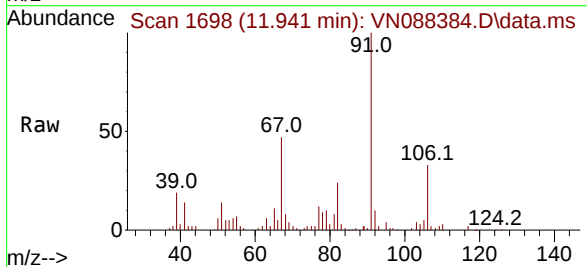
Manual Integrations
APPROVED

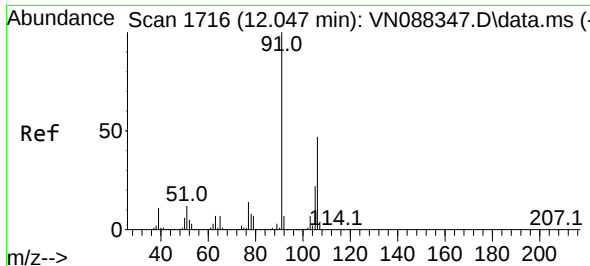
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#67
Ethyl Benzene
Concen: 4.016 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

Tgt Ion: 91 Resp: 77140
Ion Ratio Lower Upper
91 100
106 33.2 23.6 35.4





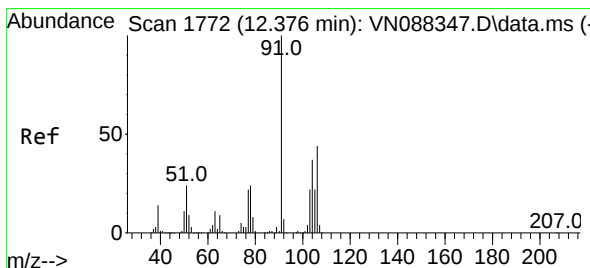
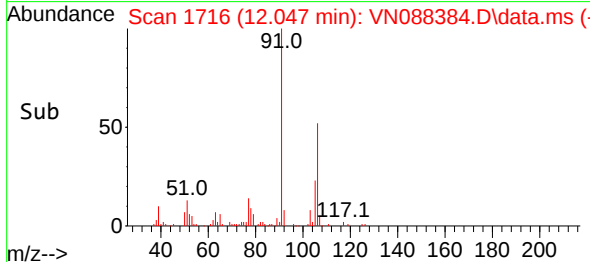
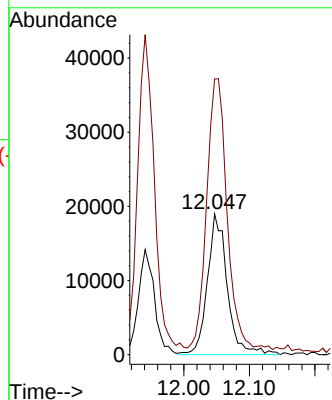
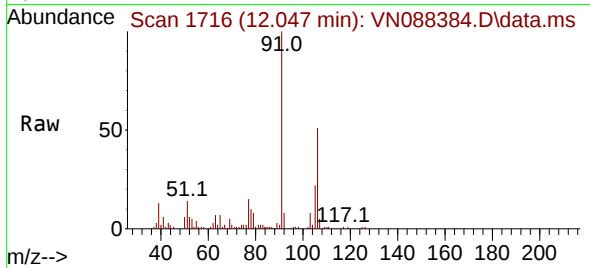
#68
m/p-Xylenes
Concen: 5.605 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

Instrument :
MSVOA_N
ClientSampleId :
MW5

Tgt Ion:106 Resp: 39920
Ion Ratio Lower Upper
106 100
91 193.6 167.8 251.6

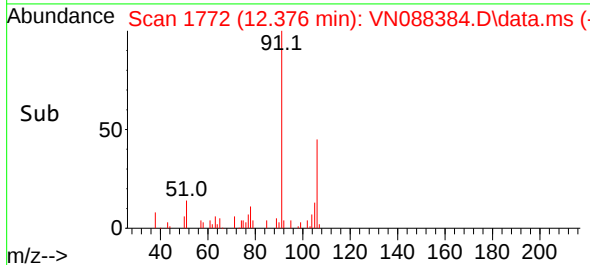
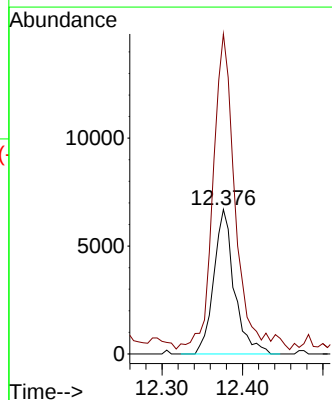
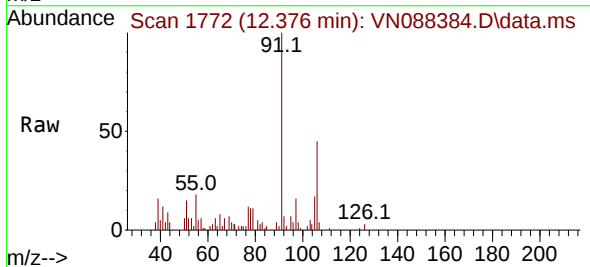
Manual Integrations
APPROVED

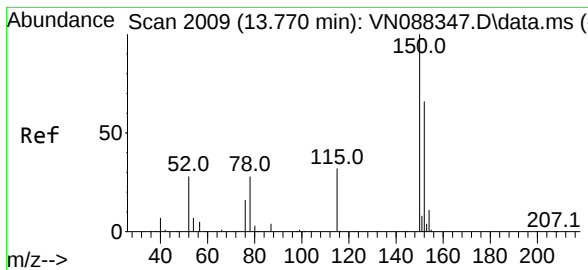
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#69
o-Xylene
Concen: 1.748 ug/l m
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

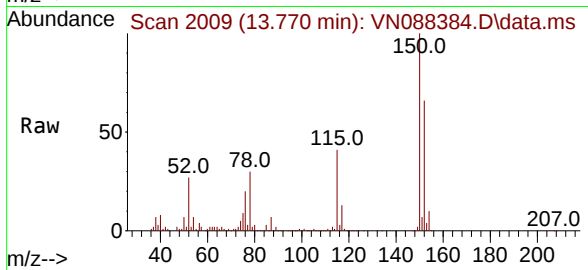
Tgt Ion:106 Resp: 11871
Ion Ratio Lower Upper
106 100
91 0.0 112.9 338.7#





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

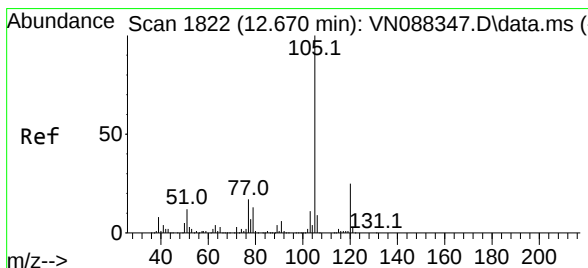
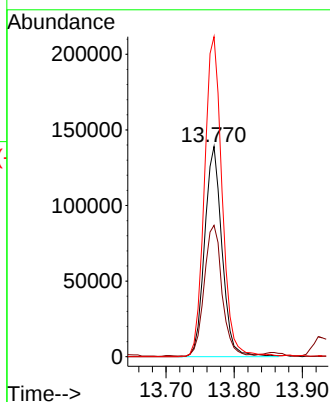
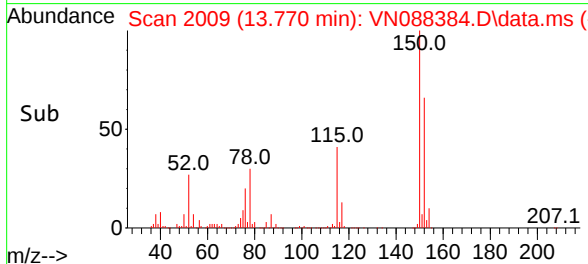
Instrument :
MSVOA_N
ClientSampleId :
MW5



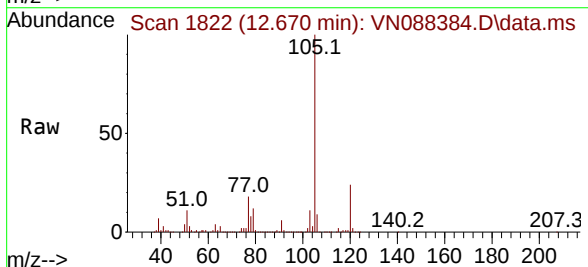
Tgt Ion:152 Resp: 24657
Ion Ratio Lower Upper
152 100
115 63.6 33.0 98.9
150 154.8 0.0 349.0

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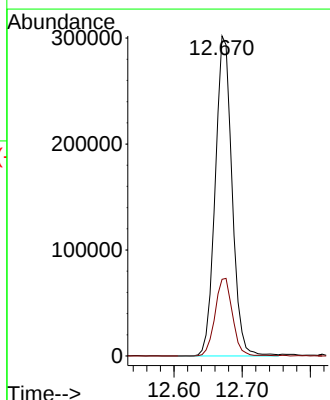
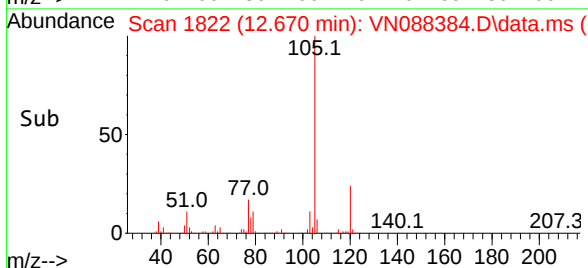
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025

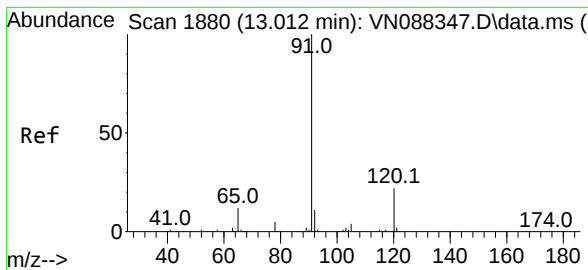


#73
Isopropylbenzene
Concen: 28.438 ug/l
RT: 12.670 min Scan# 1822
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35



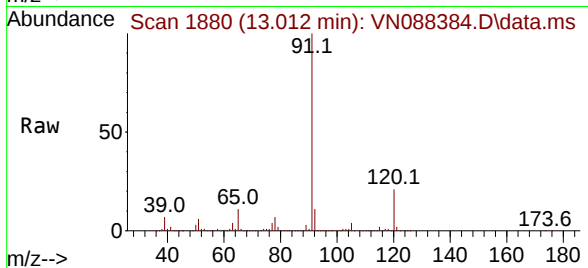
Tgt Ion:105 Resp: 518465
Ion Ratio Lower Upper
105 100
120 25.2 12.8 38.3





#78
n-propylbenzene
Concen: 55.686 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

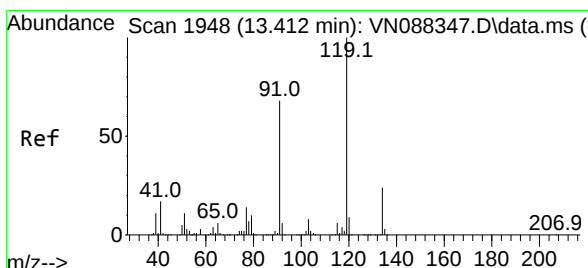
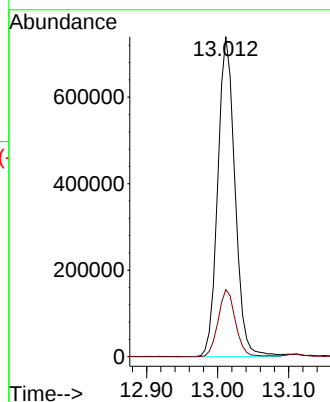
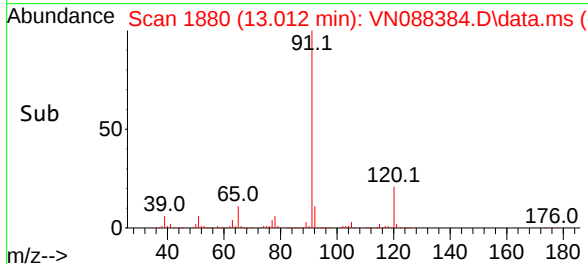
Instrument :
MSVOA_N
ClientSampleId :
MW5



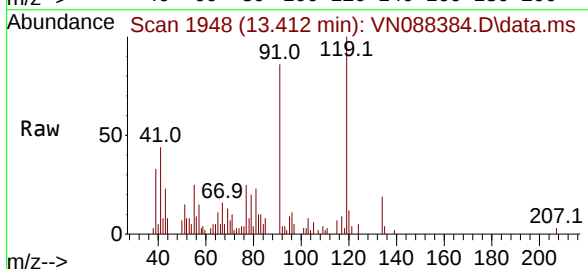
Tgt Ion: 91 Resp: 1242004
Ion Ratio Lower Upper
91 100
120 21.0 10.9 32.6

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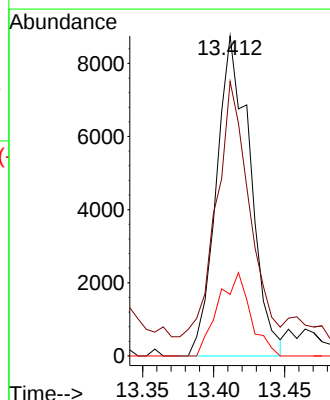
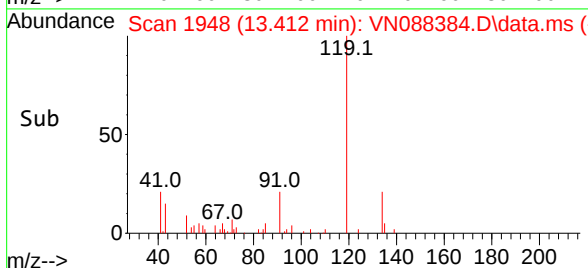
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025

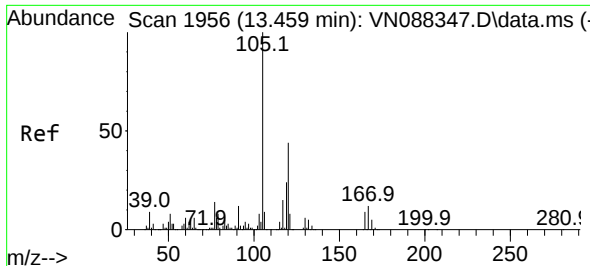


#83
tert-Butylbenzene
Concen: 1.127 ug/l
RT: 13.412 min Scan# 1948
Delta R.T. 0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35



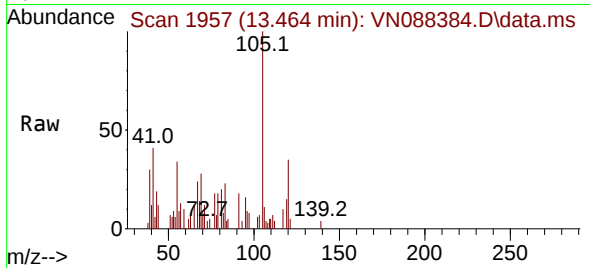
Tgt Ion:119 Resp: 14471
Ion Ratio Lower Upper
119 100
91 75.8 35.1 105.3
134 25.0 12.8 38.4





#84
1,2,4-Trimethylbenzene
Concen: 0.600 ug/l
RT: 13.464 min Scan# 1956
Delta R.T. 0.006 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

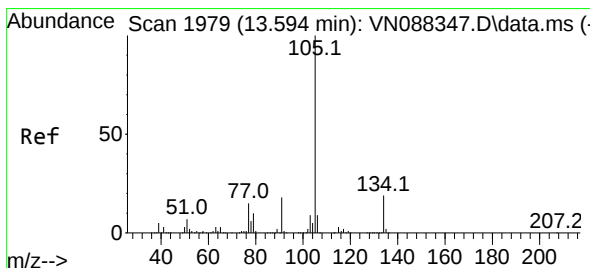
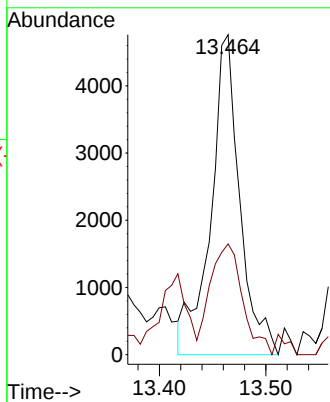
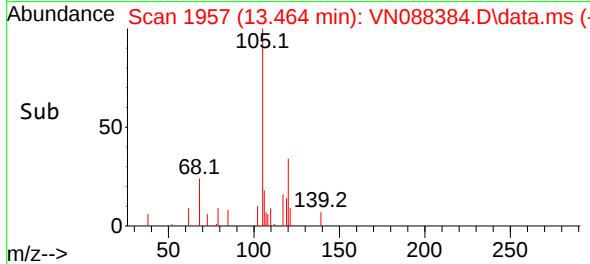
Instrument :
MSVOA_N
ClientSampleId :
MW5



Tgt Ion:105 Resp: 900
Ion Ratio Lower Upper
105 100
120 38.5 22.1 66.1

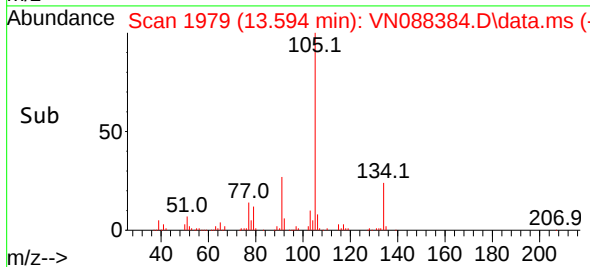
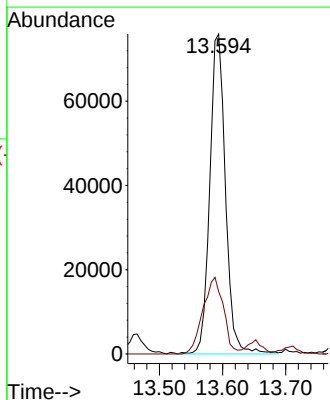
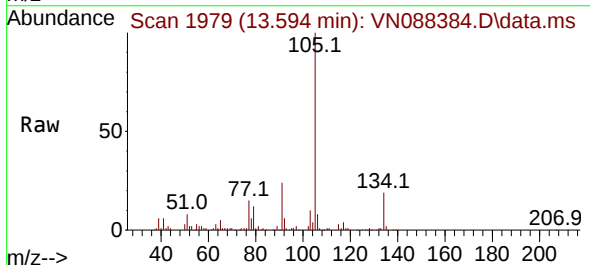
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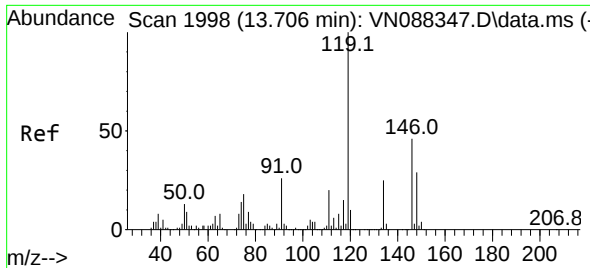
Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#85
sec-Butylbenzene
Concen: 7.118 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

Tgt Ion:105 Resp: 131324
Ion Ratio Lower Upper
105 100
134 31.2 9.5 28.5#





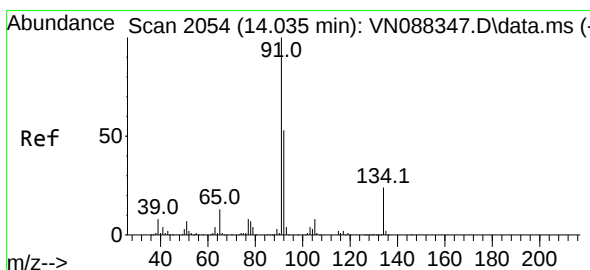
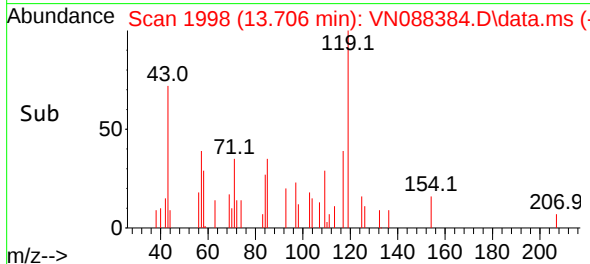
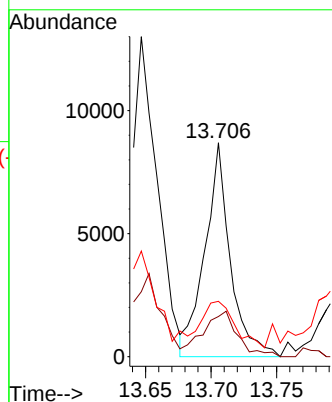
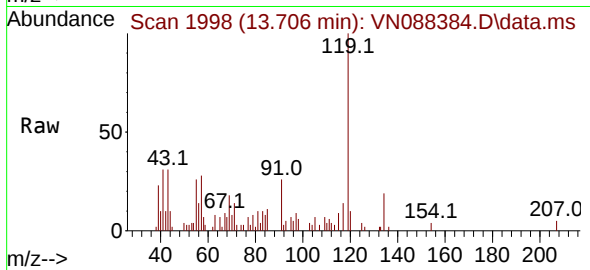
#86
p-Isopropyltoluene
Concen: 0.774 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

Instrument :
MSVOA_N
ClientSampleId :
MW5

Tgt Ion:119 Resp: 11708
Ion Ratio Lower Upper
119 100
134 29.1 12.2 36.6
91 28.2 13.0 39.0

Manual Integrations
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Reviewed By :John Carlone 12/02/2025
Supervised By :Mahesh Dadoda 12/02/2025



#89
n-Butylbenzene
Concen: 8.375 ug/l m
RT: 14.035 min Scan# 2054
Delta R.T. -0.000 min
Lab File: VN088384.D
Acq: 01 Dec 2025 15:35

Tgt Ion: 91 Resp: 123015
Ion Ratio Lower Upper
91 100
92 57.8 26.1 78.3
134 0.0 11.7 35.1#

