

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
 Data File : VN088404.D
 Acq On : 02 Dec 2025 12:55
 Operator : JC\MD
 Sample : Q3716-01DL 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW5DL

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/03/2025
 Supervised By :Mahesh Dadoda 12/03/2025

Quant Time: Dec 03 01:27:54 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	207935	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	480326	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	472979	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	241090	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	245002	62.547	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 125.100%#			
35) Dibromofluoromethane	8.147	113	174812	52.518	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.040%			
50) Toluene-d8	10.541	98	614700	49.632	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.260%			
62) 4-Bromofluorobenzene	12.829	95	239873	56.447	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 112.900%			
Target Compounds					Qvalue	
31) Cyclohexane	8.236	56	22256m	4.320	ug/l	
39) Methylcyclohexane	9.577	83	12349	2.247	ug/l	98
40) Benzene	8.588	78	52384	3.474	ug/l	97
52) Toluene	10.606	92	46202	5.307	ug/l	100
67) Ethyl Benzene	11.941	91	211963	11.415	ug/l	99
68) m/p-Xylenes	12.047	106	366452	53.228	ug/l	100
69) o-Xylene	12.376	106	118177	18.005	ug/l	98
73) Isopropylbenzene	12.676	105	14911	0.836	ug/l	96
78) n-propylbenzene	13.018	91	45499	2.086	ug/l	95
80) 1,3,5-Trimethylbenzene	13.147	105	171991	11.644	ug/l	95
84) 1,2,4-Trimethylbenzene	13.459	105	580928	39.567	ug/l	99
85) sec-Butylbenzene	13.594	105	6083m	0.337	ug/l	
86) p-Isopropyltoluene	13.700	119	3843	0.260	ug/l #	66
89) n-Butylbenzene	14.035	91	4382m	0.305	ug/l	

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

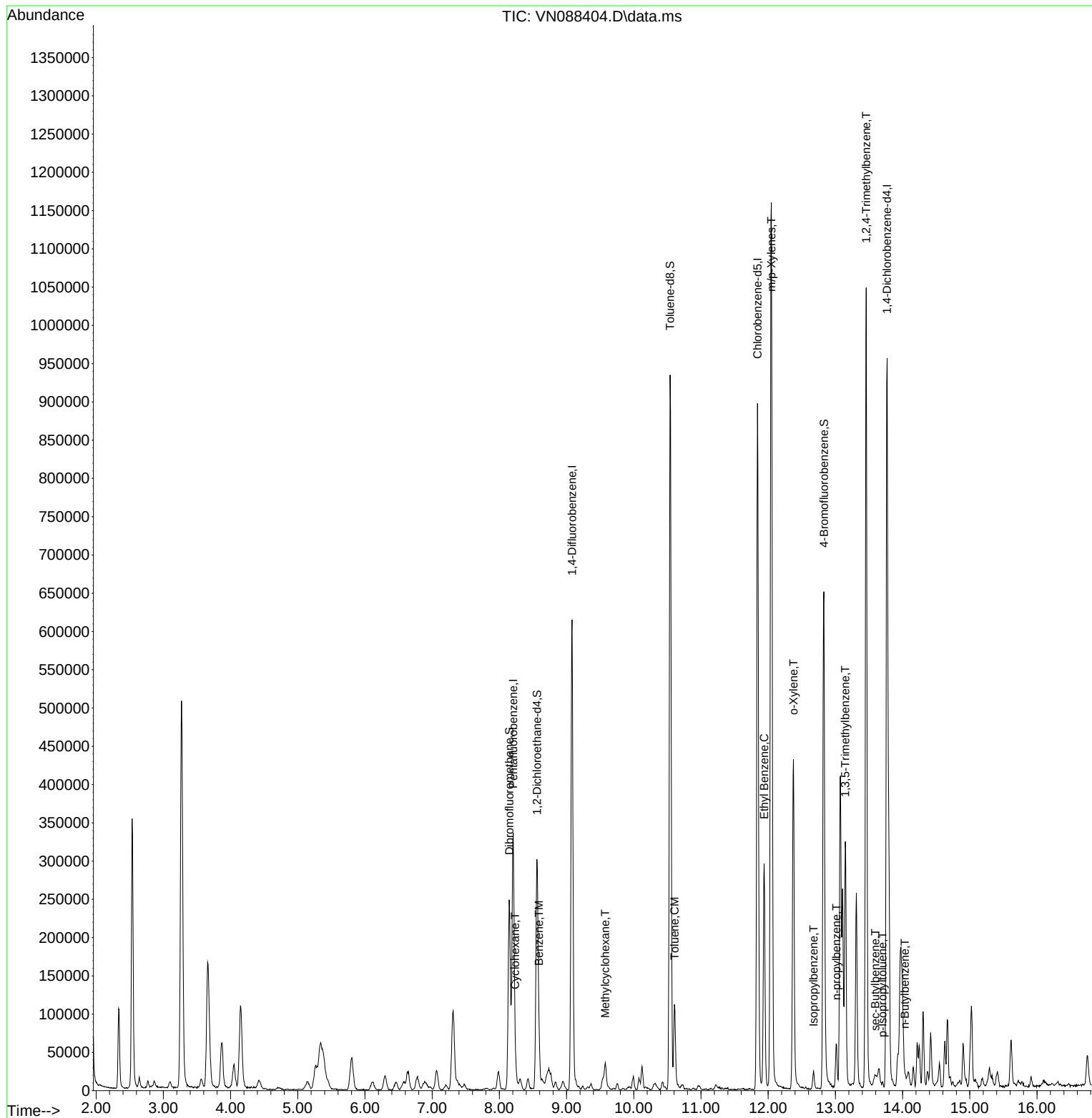
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
Data File : VN088404.D
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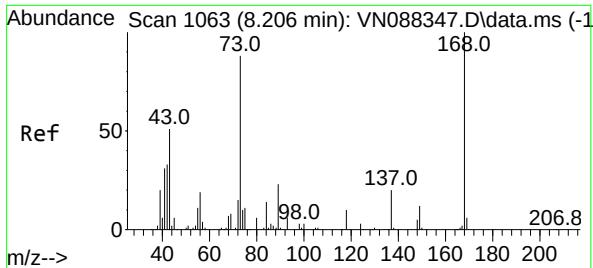
Instrument :
MSVOA_N
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MW5DL

Quant Time: Dec 03 01:27:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
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Manual Integrations
APPROVED

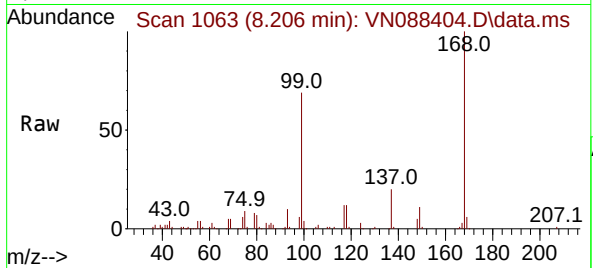
Reviewed By :John Carlone 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088404.D
Acq: 02 Dec 2025 12:55

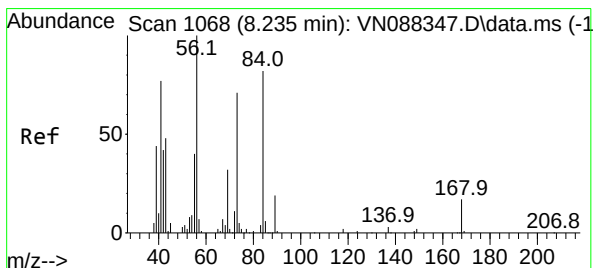
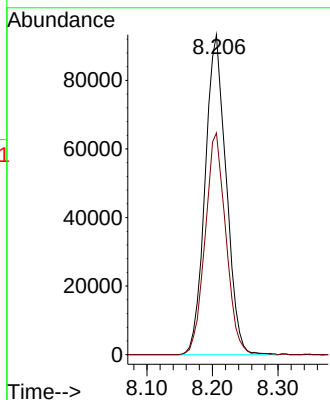
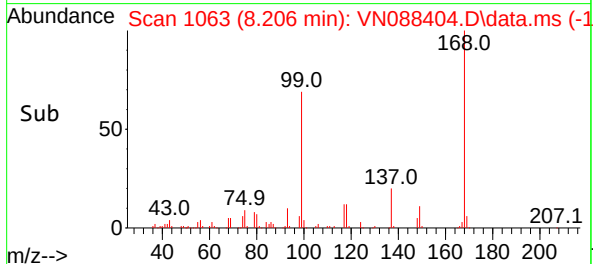
Instrument :
MSVOA_N
ClientSampleId :
MW5DL



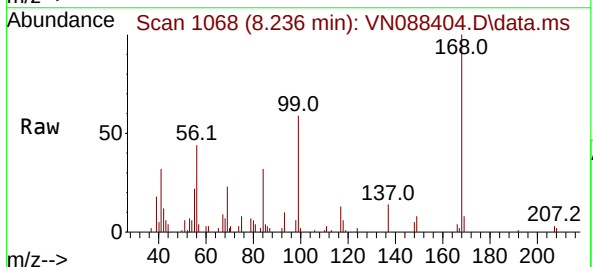
Tgt Ion:168 Resp: 20793
Ion Ratio Lower Upper
168 100
99 69.3 57.1 85.7

Manual Integrations
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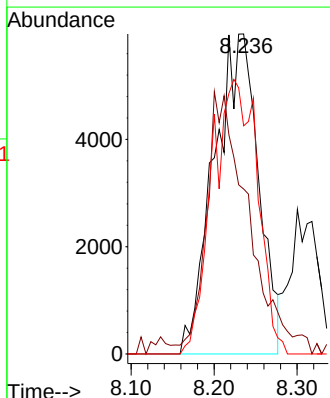
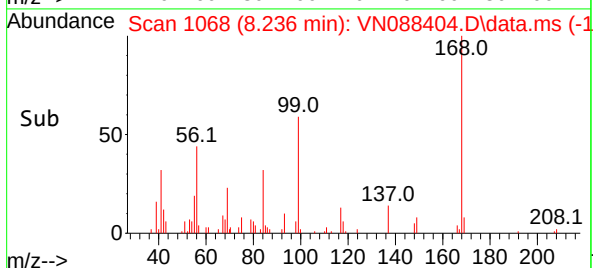
Reviewed By :John Carlone 12/03/2025
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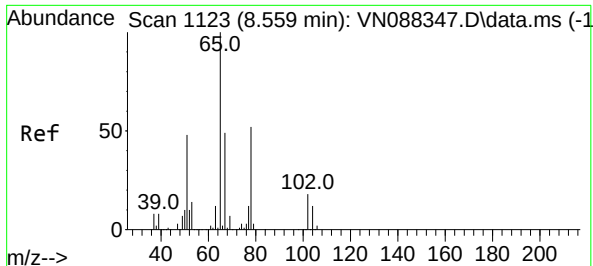


#31
Cyclohexane
Concen: 4.320 ug/l m
RT: 8.236 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN088404.D
Acq: 02 Dec 2025 12:55



Tgt Ion: 56 Resp: 22256
Ion Ratio Lower Upper
56 100
69 51.6 25.3 37.9#
84 71.3 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 62.547 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088404.D

Acq: 02 Dec 2025 12:55

Instrument :

MSVOA_N

ClientSampleId :

MW5DL

Tgt Ion: 65 Resp: 24500

Ion Ratio Lower Upper

65 100

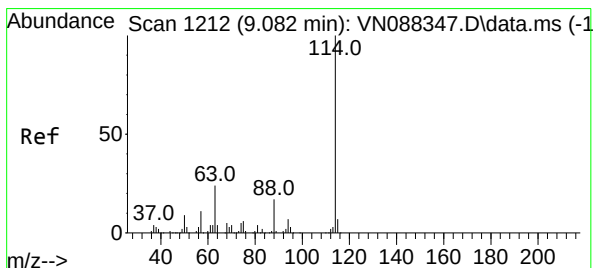
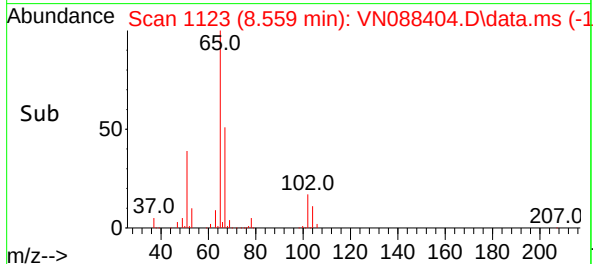
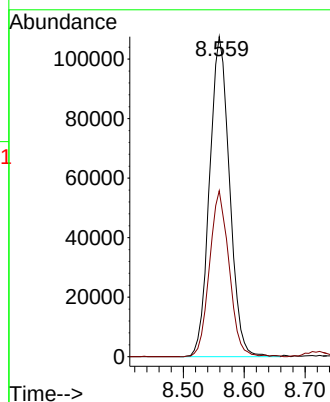
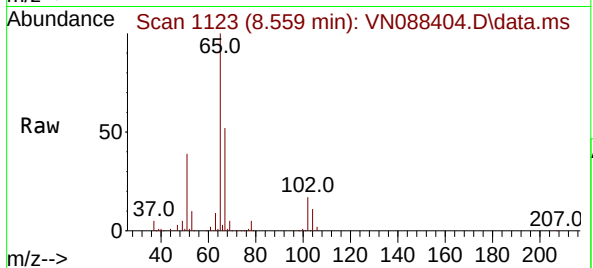
67 51.0 0.0 100.8

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: VN088404.D

Acq: 02 Dec 2025 12:55

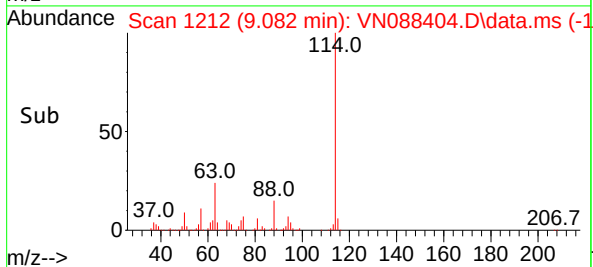
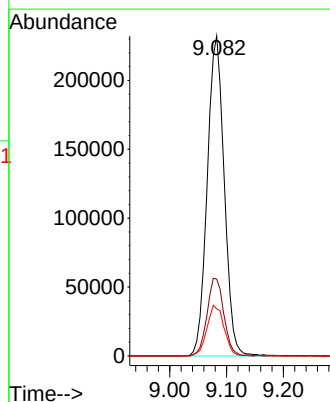
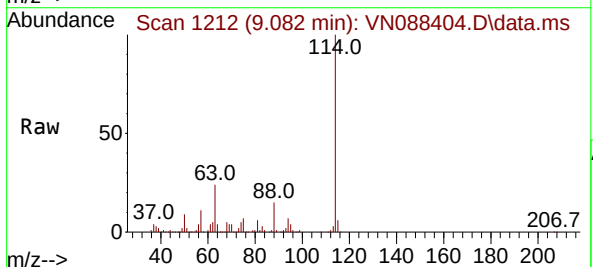
Tgt Ion:114 Resp: 480326

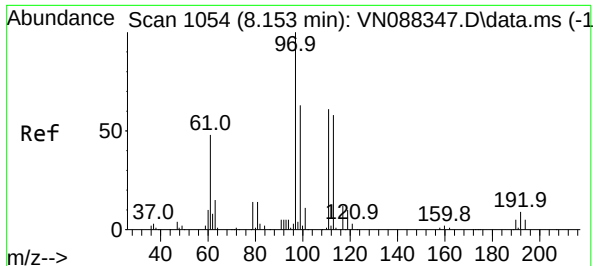
Ion Ratio Lower Upper

114 100

63 24.0 0.0 49.0

88 14.7 0.0 34.0





#35

Dibromofluoromethane

Concen: 52.518 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088404.D

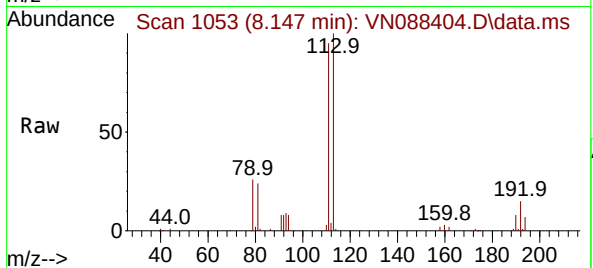
Acq: 02 Dec 2025 12:55

Instrument :

MSVOA_N

ClientSampleId :

MW5DL



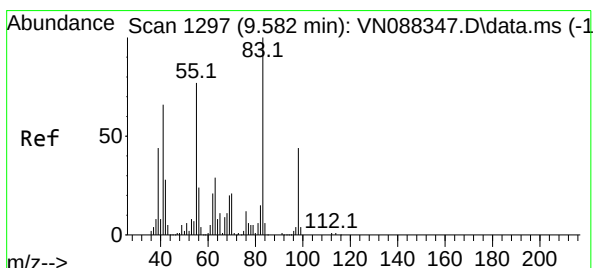
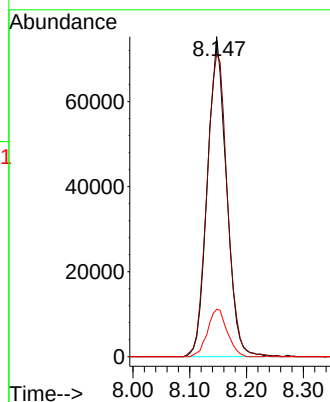
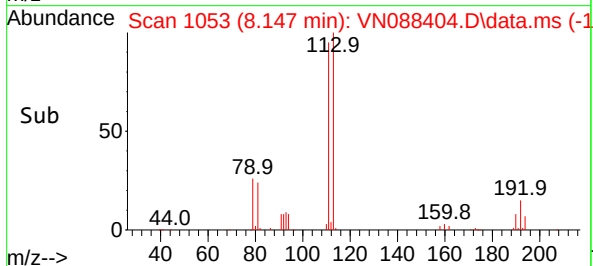
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.5	123.7
192	15.3	12.8	19.2

Manual Integrations

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#39

Methylcyclohexane

Concen: 2.247 ug/l

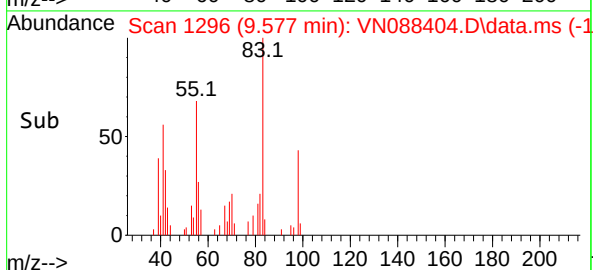
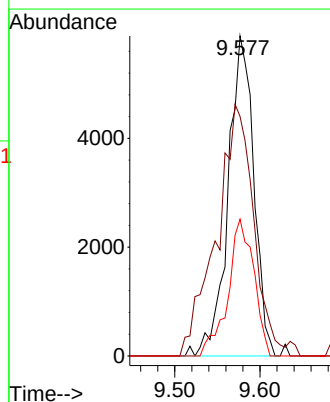
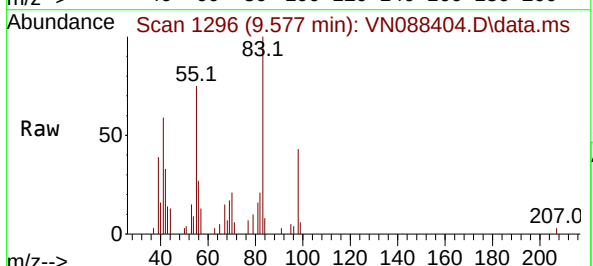
RT: 9.577 min Scan# 1296

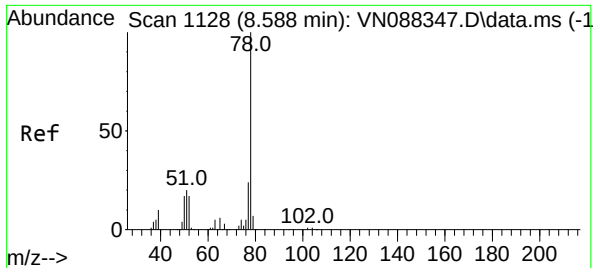
Delta R.T. -0.006 min

Lab File: VN088404.D

Acq: 02 Dec 2025 12:55

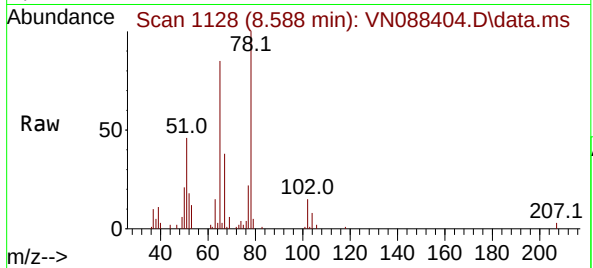
Tgt Ion	Ratio	Lower	Upper
83	100		
55	74.8	61.6	92.4
98	42.8	35.3	52.9





#40
Benzene
Concen: 3.474 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088404.D
Acq: 02 Dec 2025 12:55

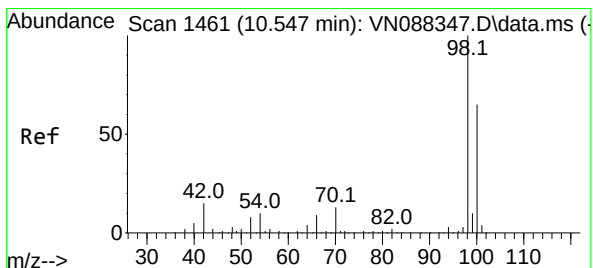
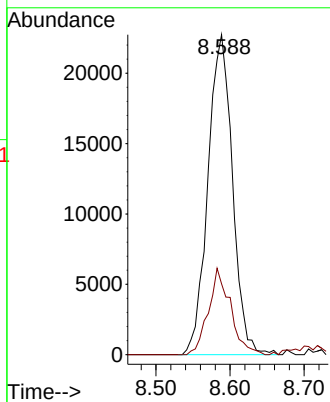
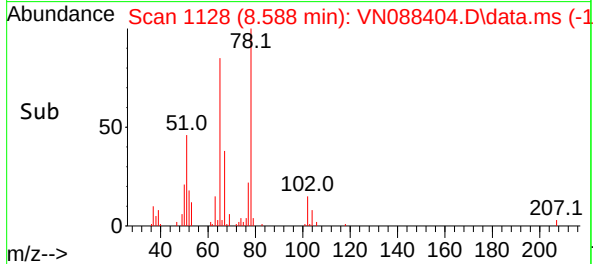
Instrument :
MSVOA_N
ClientSampleId :
MW5DL



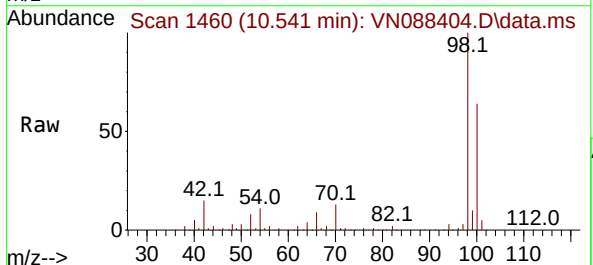
Tgt Ion: 78 Resp: 52384
Ion Ratio Lower Upper
78 100
77 22.1 19.0 28.4

Manual Integrations
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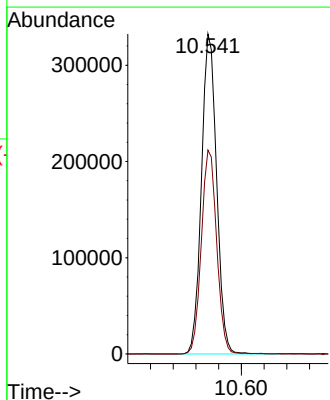
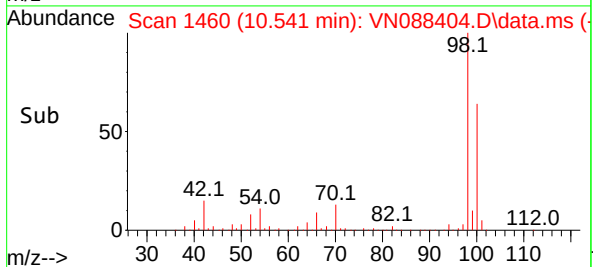
Reviewed By :John Carlone 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025

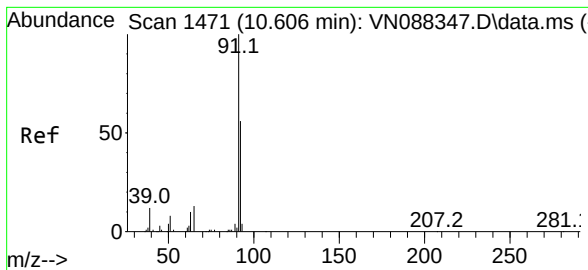


#50
Toluene-d8
Concen: 49.632 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088404.D
Acq: 02 Dec 2025 12:55



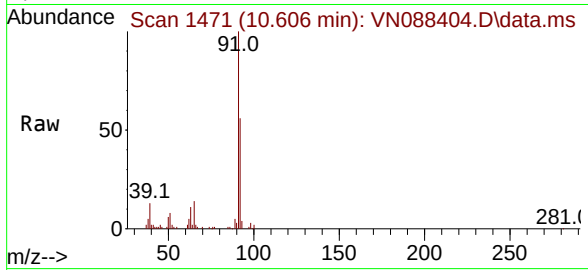
Tgt Ion: 98 Resp: 614700
Ion Ratio Lower Upper
98 100
100 64.4 52.2 78.2





#52
Toluene
Concen: 5.307 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088404.D
Acq: 02 Dec 2025 12:55

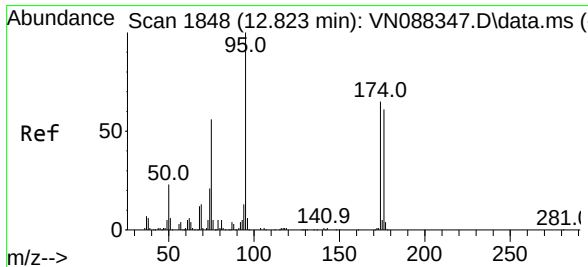
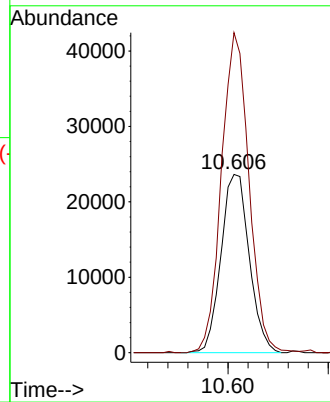
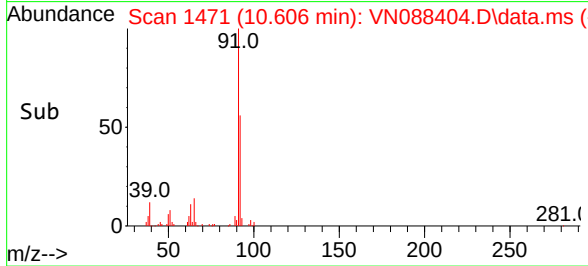
Instrument :
MSVOA_N
ClientSampleId :
MW5DL



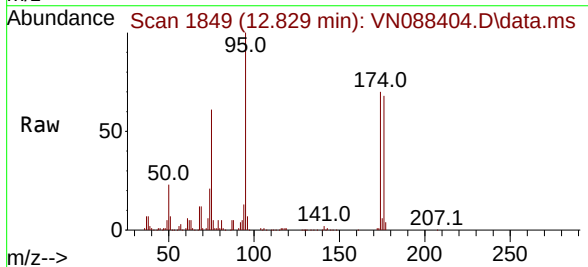
Tgt Ion: 92 Resp: 46202
Ion Ratio Lower Upper
92 100
91 174.6 140.2 210.2

Manual Integrations
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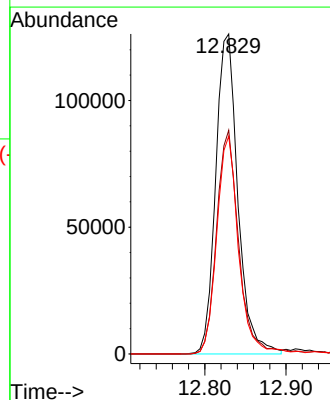
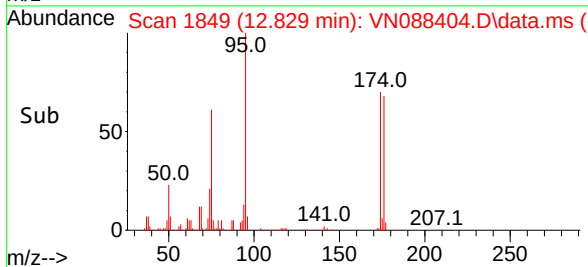
Reviewed By :John Carlone 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025

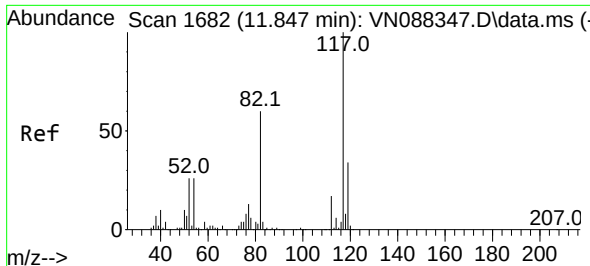


#62
4-Bromofluorobenzene
Concen: 56.447 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088404.D
Acq: 02 Dec 2025 12:55



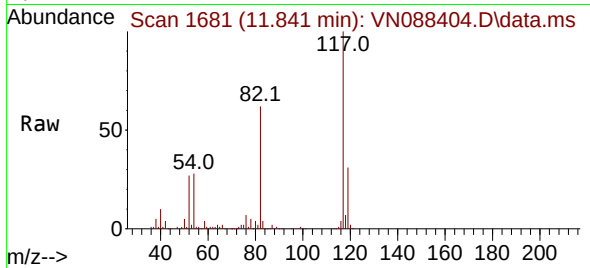
Tgt Ion: 95 Resp: 239873
Ion Ratio Lower Upper
95 100
174 70.0 0.0 139.0
176 67.1 0.0 132.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088404.D
Acq: 02 Dec 2025 12:55

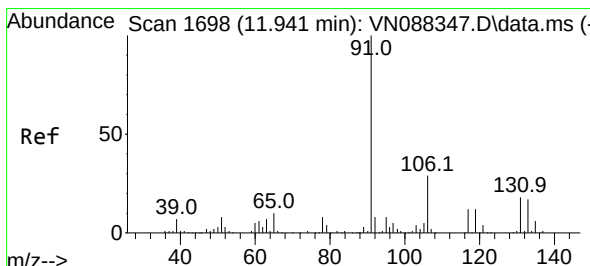
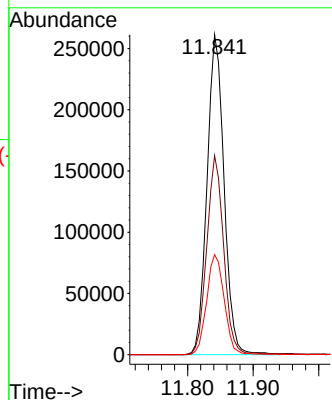
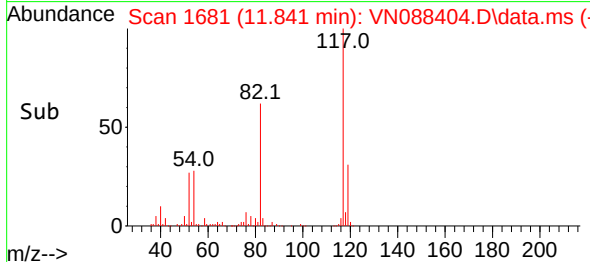
Instrument :
MSVOA_N
ClientSampleId :
MW5DL



Tgt Ion: 117 Resp: 472979
Ion Ratio Lower Upper
117 100
82 62.2 47.8 71.8
119 31.2 26.9 40.3

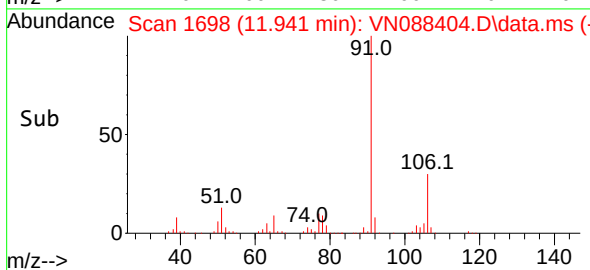
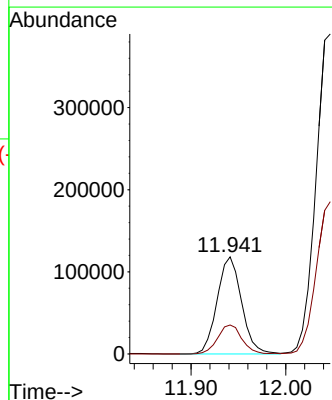
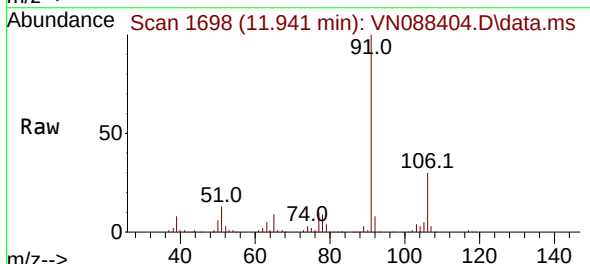
Manual Integrations
APPROVED

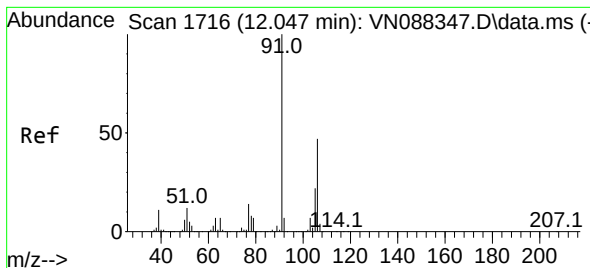
Reviewed By :John Carlone 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025



#67
Ethyl Benzene
Concen: 11.415 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088404.D
Acq: 02 Dec 2025 12:55

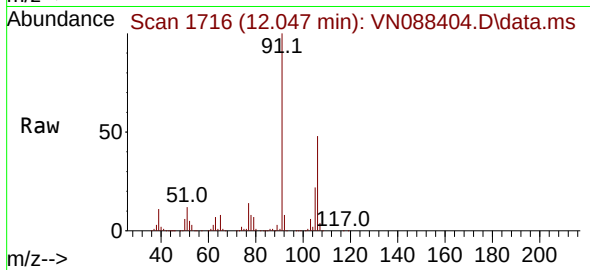
Tgt Ion: 91 Resp: 211963
Ion Ratio Lower Upper
91 100
106 29.9 23.6 35.4





#68
m/p-Xylenes
Concen: 53.228 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN088404.D
Acq: 02 Dec 2025 12:55

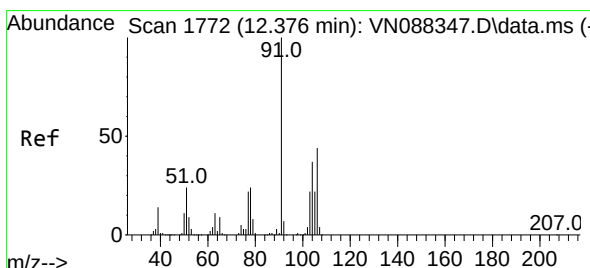
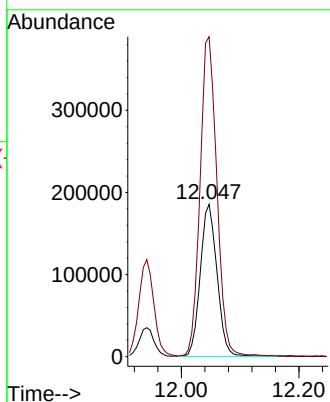
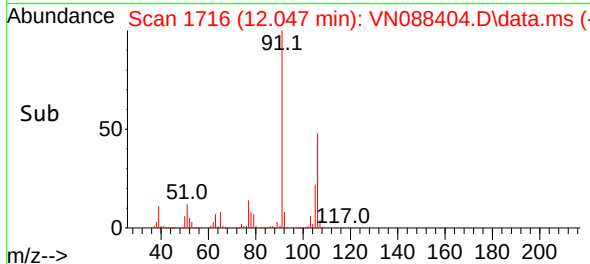
Instrument :
MSVOA_N
ClientSampleId :
MW5DL



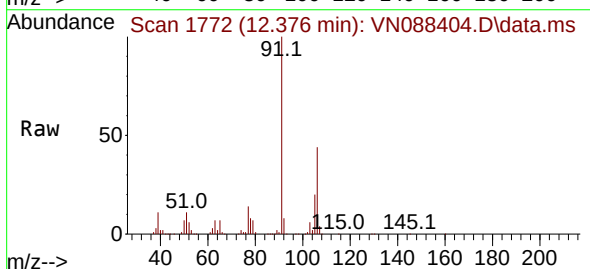
Tgt Ion:106 Resp: 366452
Ion Ratio Lower Upper
106 100
91 210.3 167.8 251.6

Manual Integrations
APPROVED

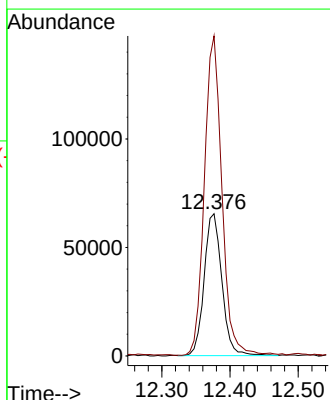
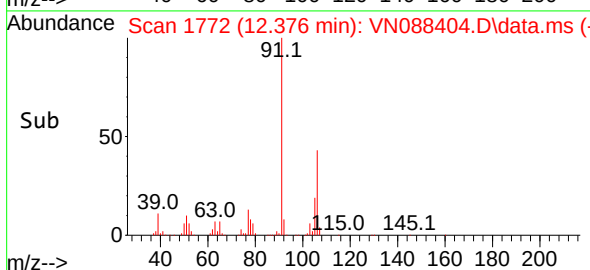
Reviewed By :John Carlone 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025

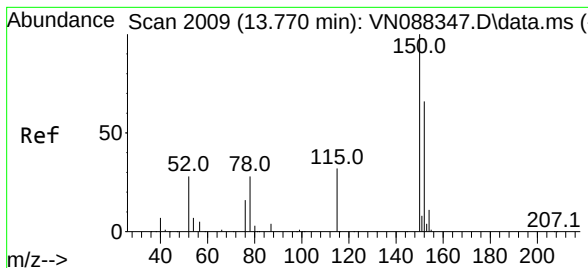


#69
o-Xylene
Concen: 18.005 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088404.D
Acq: 02 Dec 2025 12:55



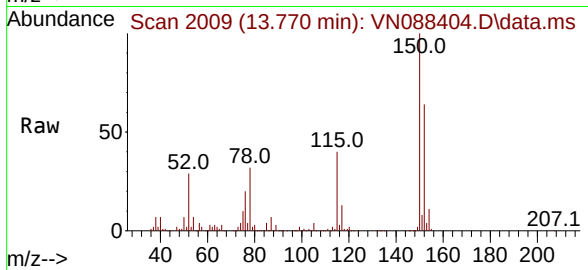
Tgt Ion:106 Resp: 118177
Ion Ratio Lower Upper
106 100
91 223.1 112.9 338.7





#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.000 min
 Lab File: VN088404.D
 Acq: 02 Dec 2025 12:55

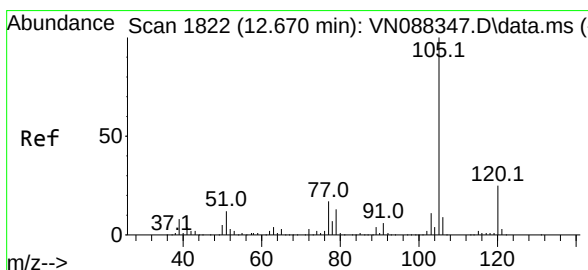
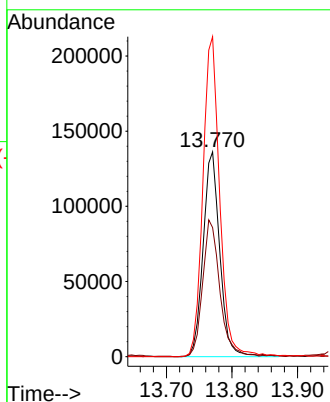
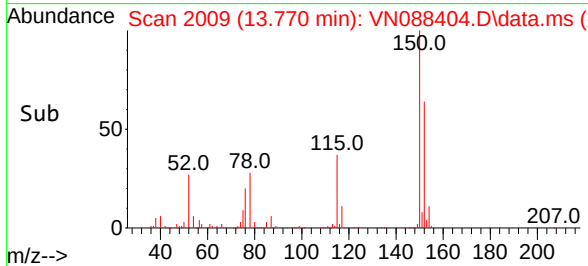
Instrument :
 MSVOA_N
 ClientSampleId :
 MW5DL



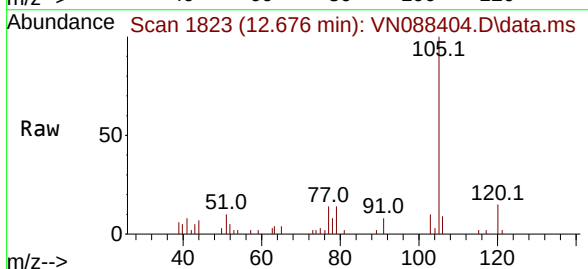
Tgt Ion:152 Resp: 241090
 Ion Ratio Lower Upper
 152 100
 115 68.8 33.0 98.9
 150 157.5 0.0 349.0

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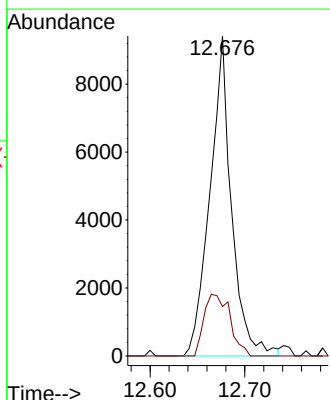
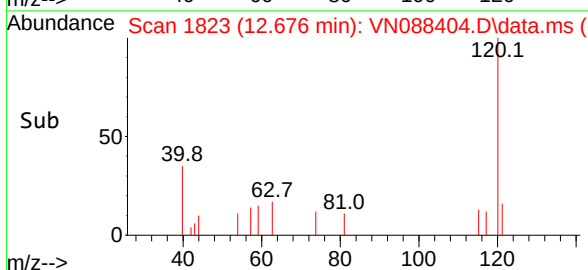
Reviewed By :John Carlone 12/03/2025
 Supervised By :Mahesh Dadoda 12/03/2025

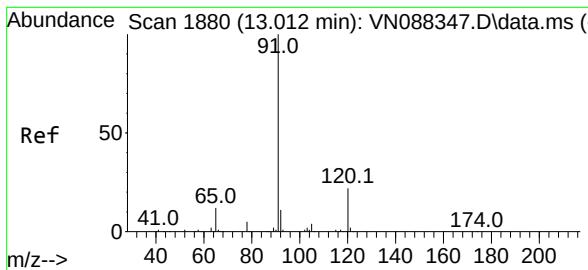


#73
 Isopropylbenzene
 Concen: 0.836 ug/l
 RT: 12.676 min Scan# 1823
 Delta R.T. 0.006 min
 Lab File: VN088404.D
 Acq: 02 Dec 2025 12:55



Tgt Ion:105 Resp: 14911
 Ion Ratio Lower Upper
 105 100
 120 23.3 12.8 38.3





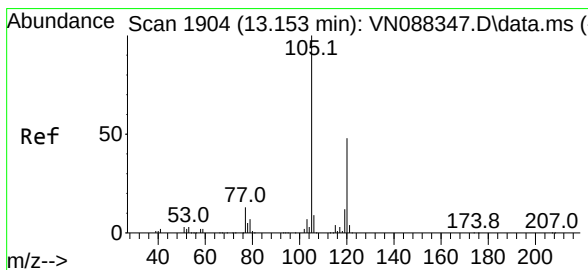
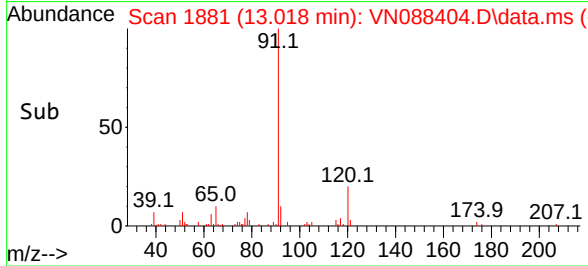
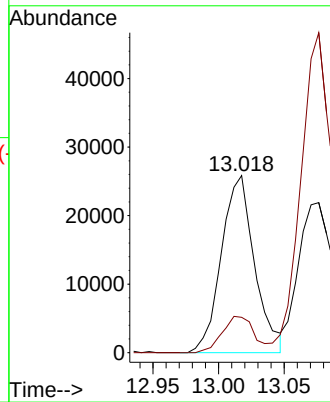
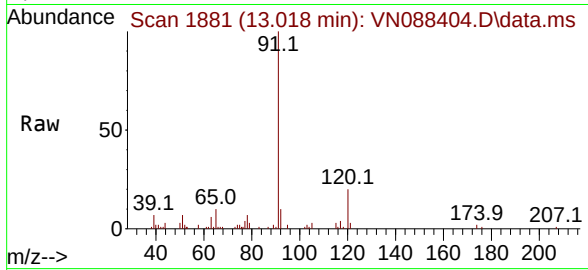
#78
n-propylbenzene
Concen: 2.086 ug/l
RT: 13.018 min Scan# 1880
Delta R.T. 0.006 min
Lab File: VN088404.D
Acq: 02 Dec 2025 12:55

Instrument :
MSVOA_N
ClientSampleId :
MW5DL

Tgt Ion: 91 Resp: 45498
Ion Ratio Lower Upper
91 100
120 19.5 10.9 32.6

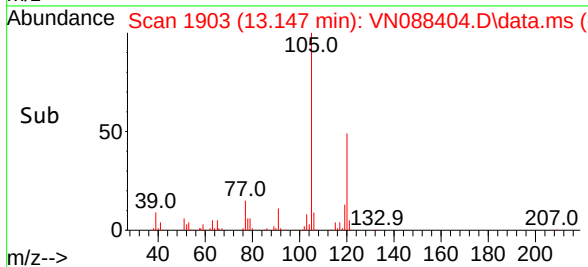
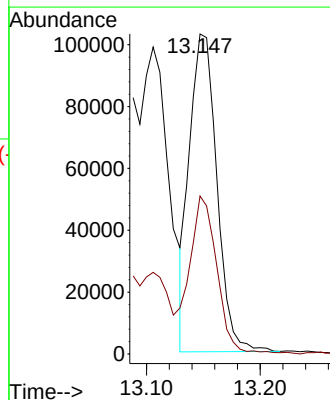
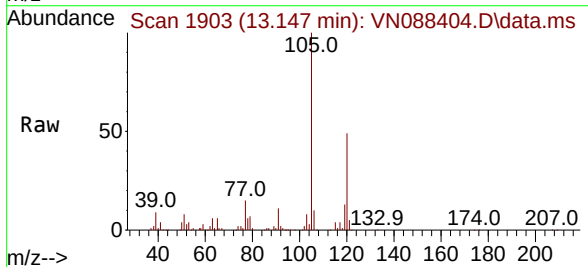
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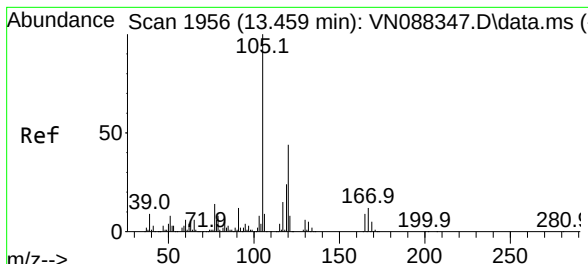
Reviewed By :John Carlone 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025



#80
1,3,5-Trimethylbenzene
Concen: 11.644 ug/l
RT: 13.147 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VN088404.D
Acq: 02 Dec 2025 12:55

Tgt Ion:105 Resp: 171991
Ion Ratio Lower Upper
105 100
120 50.9 23.8 71.5





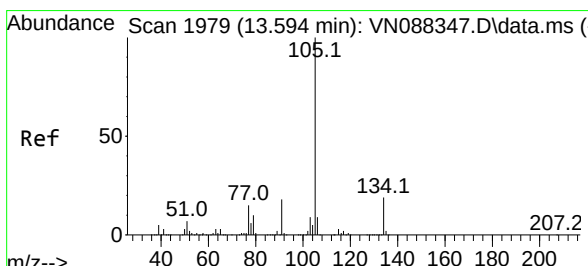
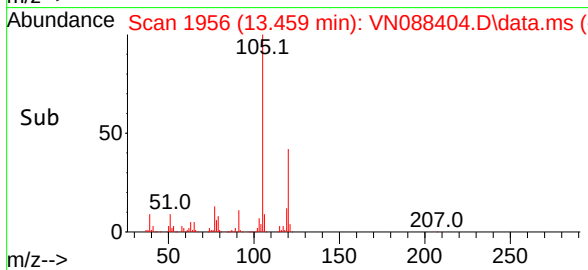
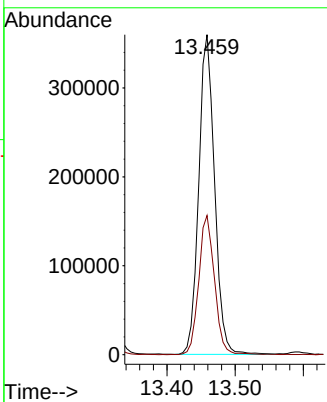
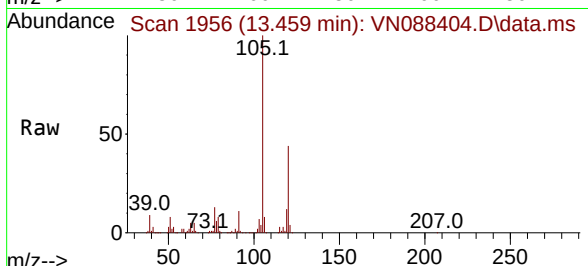
#84
 1,2,4-Trimethylbenzene
 Concen: 39.567 ug/l
 RT: 13.459 min Scan# 1956
 Delta R.T. 0.000 min
 Lab File: VN088404.D
 Acq: 02 Dec 2025 12:55

Instrument : MSVOA_N
 ClientSampleId : MW5DL

Tgt Ion:105 Resp: 580928
 Ion Ratio Lower Upper
 105 100
 120 43.6 22.1 66.1

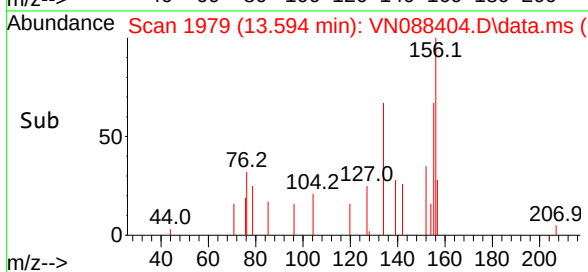
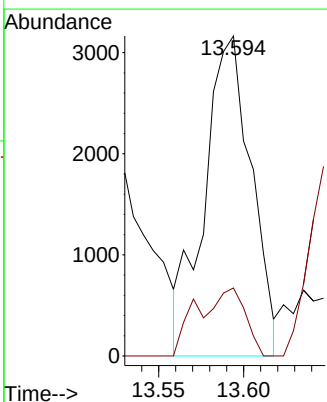
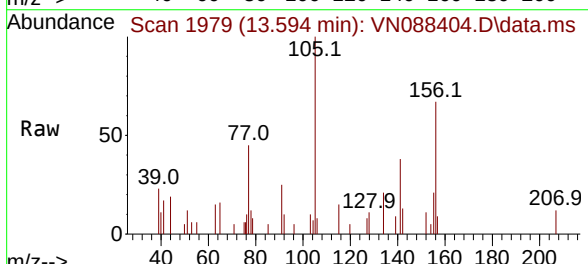
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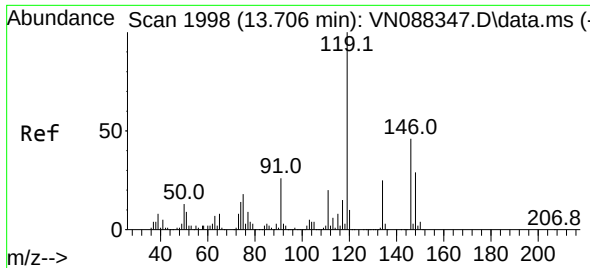
Reviewed By :John Carlone 12/03/2025
 Supervised By :Mahesh Dadoda 12/03/2025



#85
 sec-Butylbenzene
 Concen: 0.337 ug/l m
 RT: 13.594 min Scan# 1979
 Delta R.T. 0.000 min
 Lab File: VN088404.D
 Acq: 02 Dec 2025 12:55

Tgt Ion:105 Resp: 6083
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.5 28.5#





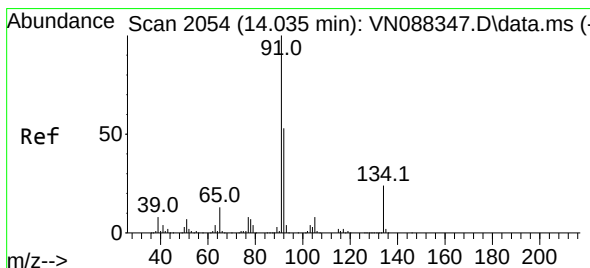
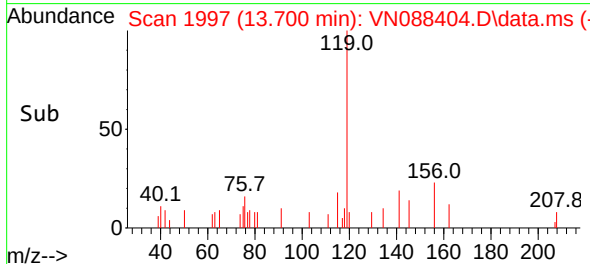
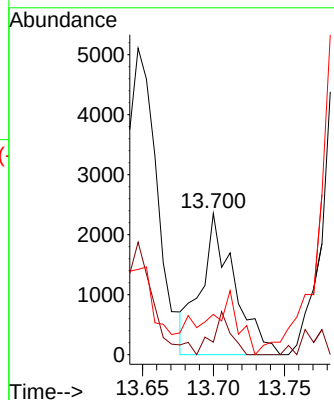
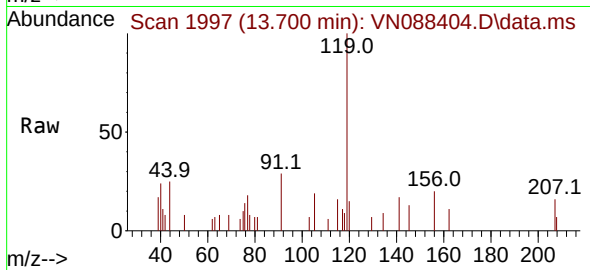
#86
p-Isopropyltoluene
Concen: 0.260 ug/l
RT: 13.700 min Scan# 1998
Delta R.T. -0.006 min
Lab File: VN088404.D
Acq: 02 Dec 2025 12:55

Instrument :
MSVOA_N
ClientSampleId :
MW5DL

Tgt Ion: 119 Resp: 384
Ion Ratio Lower Upper
119 100
134 16.2 12.2 36.6
91 0.0 13.0 39.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/03/2025
Supervised By :Mahesh Dadoda 12/03/2025



#89
n-Butylbenzene
Concen: 0.305 ug/l m
RT: 14.035 min Scan# 2054
Delta R.T. 0.000 min
Lab File: VN088404.D
Acq: 02 Dec 2025 12:55

Tgt Ion: 91 Resp: 4382
Ion Ratio Lower Upper
91 100
92 106.1 26.1 78.3#
134 0.0 11.7 35.1#

