

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086980.D
 Acq On : 12 Jun 2025 16:17
 Operator : JC\MD
 Sample : Q2302-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 250611078-02-VOA

Manual Integrations
 APPROVED

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

Quant Time: Jun 13 01:30:03 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	8.235	168	214885	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	415965	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	381430	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	185553	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	151583	52.687	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.380%			
35) Dibromofluoromethane	8.177	113	127566	51.749	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.500%			
50) Toluene-d8	10.570	98	515850	52.860	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.720%			
62) 4-Bromofluorobenzene	12.847	95	190491	52.540	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.080%			
Target Compounds					Qvalue	
8) Diethyl Ether	3.971	74	6087	3.747	ug/l	90
11) Tert butyl alcohol	5.541	59	5767759	7388.260	ug/l	99
16) Acetone	4.441	43	466692	305.880	ug/l	99
17) Carbon Disulfide	4.736	76	28025	4.236	ug/l	96
19) Methyl tert-butyl Ether	5.824	73	23354	2.697	ug/l #	84
25) 2-Butanone	7.494	43	601601m	242.578	ug/l	
29) Tetrahydrofuran	7.847	42	1125385	696.589	ug/l	96
40) Benzene	8.618	78	65221	5.430	ug/l	99
51) 4-Methyl-2-Pentanone	10.447	43	33469m	7.408	ug/l	
52) Toluene	10.635	92	115821	15.778	ug/l	100
65) Chlorobenzene	11.894	112	25847	3.072	ug/l	97
67) Ethyl Benzene	11.965	91	233632	16.123	ug/l	99
68) m/p-Xylenes	12.070	106	81139	14.628	ug/l	98
69) o-Xylene	12.400	106	45066	8.483	ug/l	100
73) Isopropylbenzene	12.694	105	27092	2.004	ug/l	97
78) n-propylbenzene	13.035	91	13756	0.837	ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	14512	1.300	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	51433	4.596	ug/l	99
86) p-Isopropyltoluene	13.729	119	203065	16.558	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	23143	3.722	ug/l	87
95) Naphthalene	15.641	128	390628	28.046	ug/l	99

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

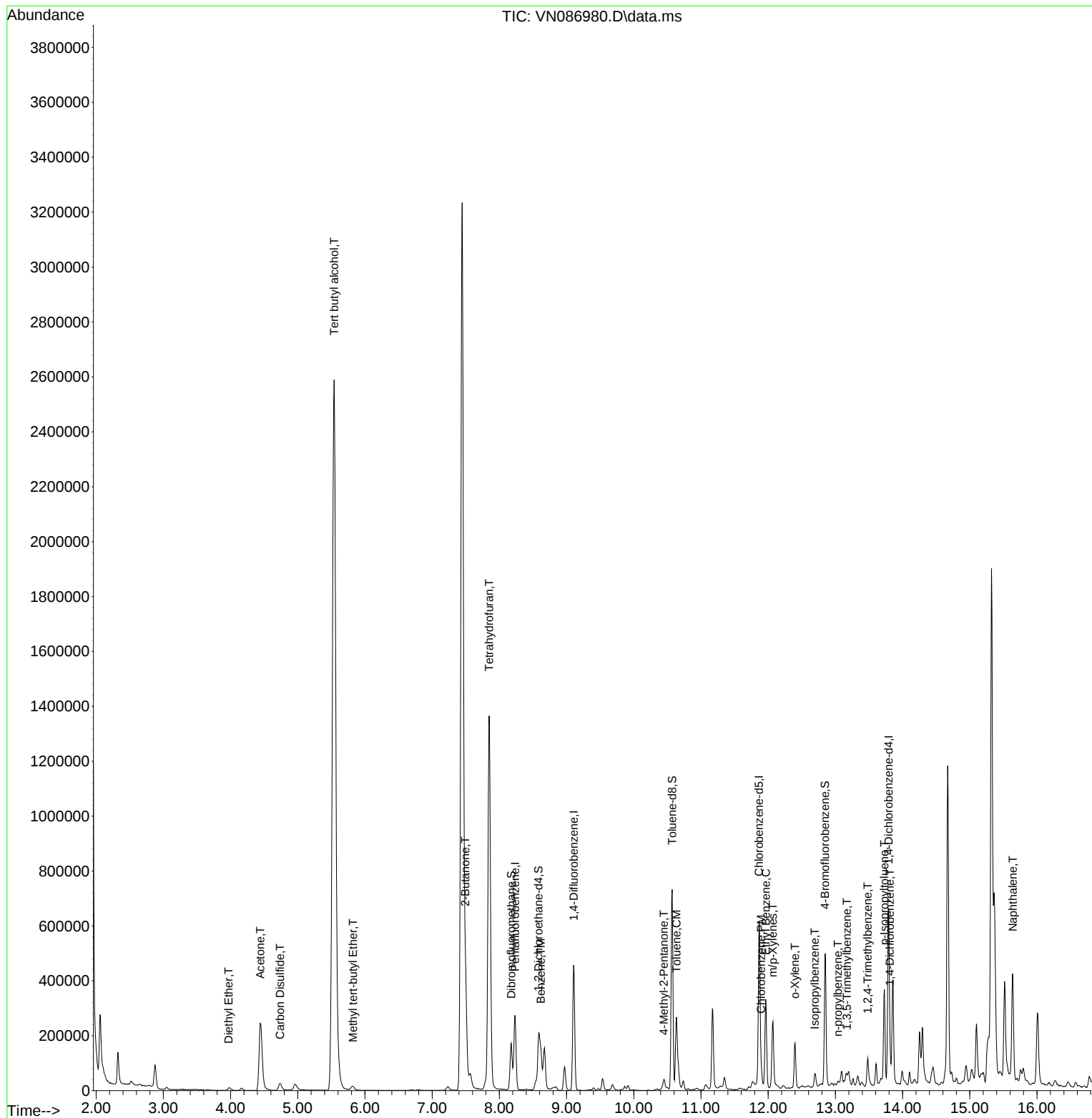
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
Data File : VN086980.D
Acq On : 12 Jun 2025 16:17
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Quant Time: Jun 13 01:30:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

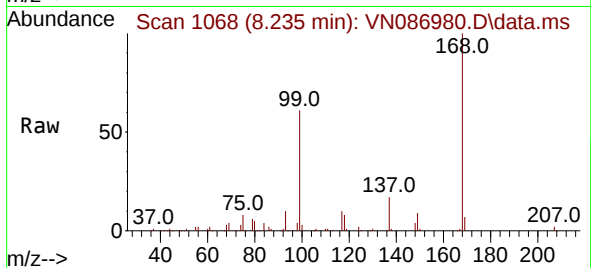
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

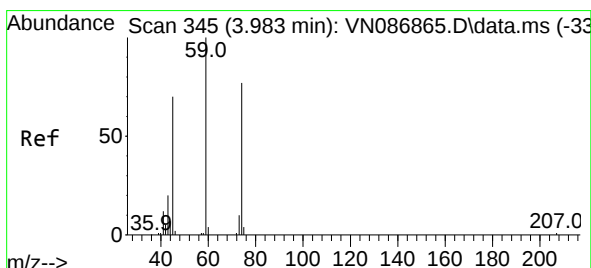
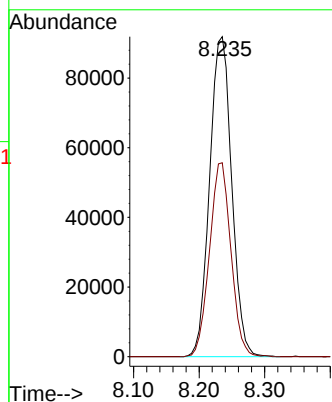
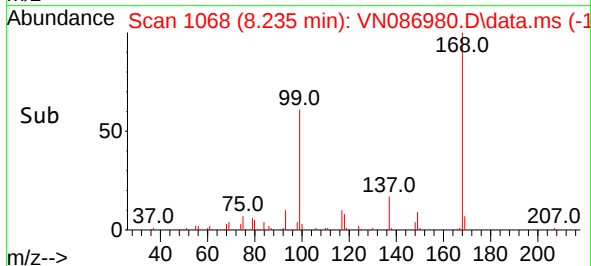
Instrument :
MSVOA_N
ClientSampleId :
250611078-02-VOA



Tgt Ion:168 Resp: 21488
Ion Ratio Lower Upper
168 100
99 60.6 49.1 73.7

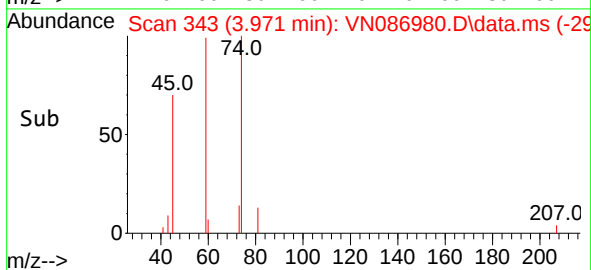
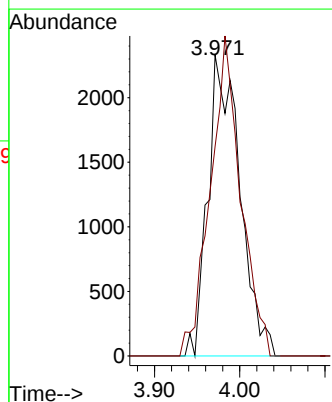
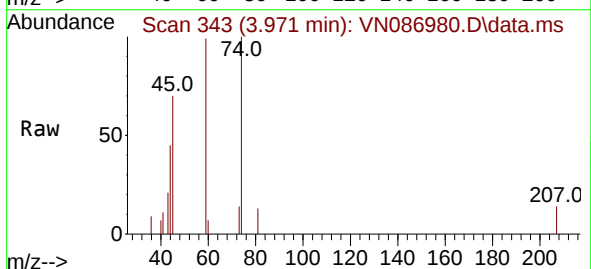
Manual Integrations
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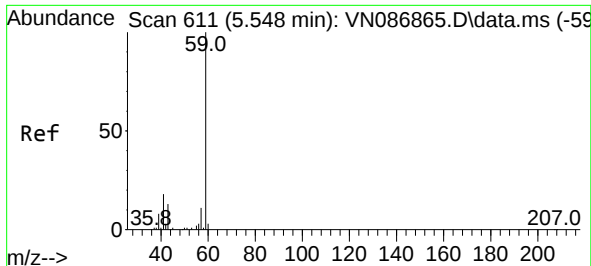
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#8
Diethyl Ether
Concen: 3.747 ug/l
RT: 3.971 min Scan# 343
Delta R.T. -0.012 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

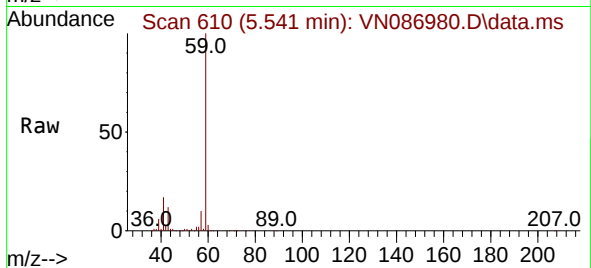
Tgt Ion: 74 Resp: 6087
Ion Ratio Lower Upper
74 100
45 100.9 45.5 136.5





#11
Tert butyl alcohol
Concen: 7388.260 ug/l
RT: 5.541 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

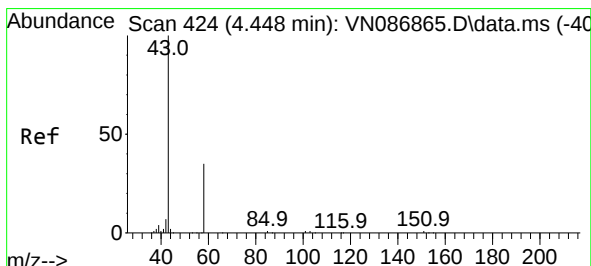
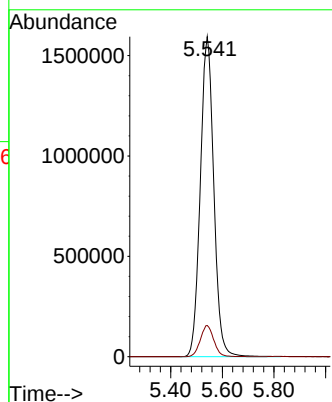
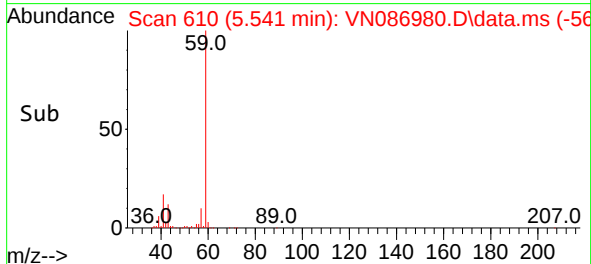
Instrument :
MSVOA_N
ClientSampleId :
250611078-02-VOA



Tgt Ion: 59 Resp: 576775
Ion Ratio Lower Upper
59 100
57 9.8 8.1 12.1

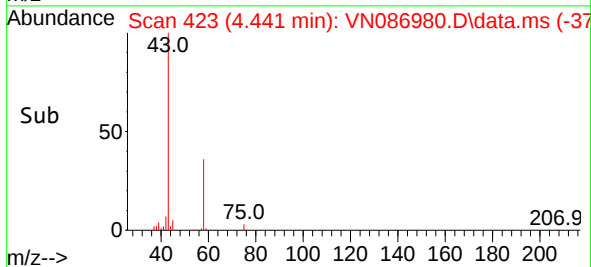
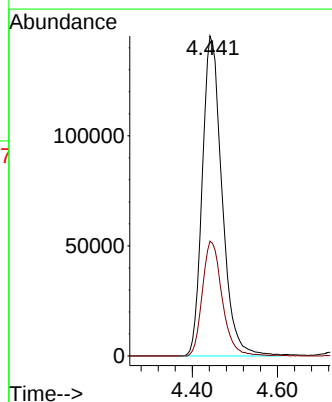
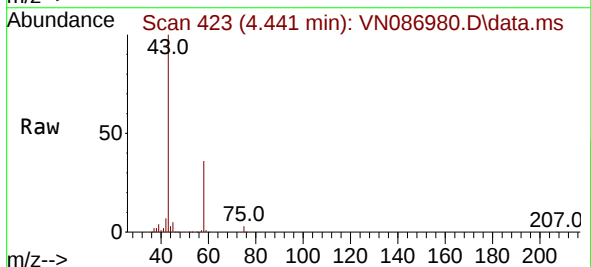
Manual Integrations
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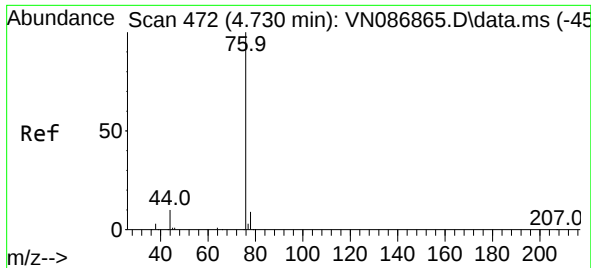
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#16
Acetone
Concen: 305.880 ug/l
RT: 4.441 min Scan# 423
Delta R.T. -0.006 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

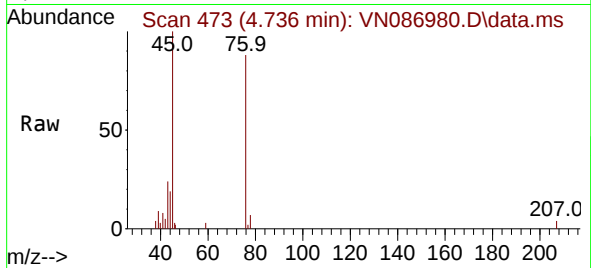
Tgt Ion: 43 Resp: 466692
Ion Ratio Lower Upper
43 100
58 35.9 28.0 42.0





#17
Carbon Disulfide
Concen: 4.236 ug/l
RT: 4.736 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

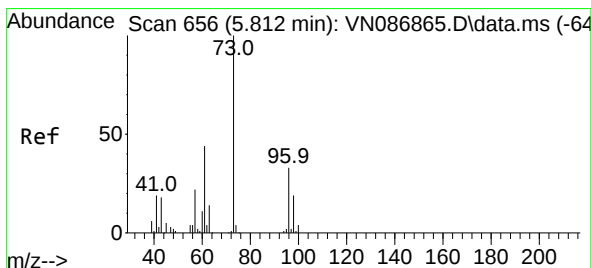
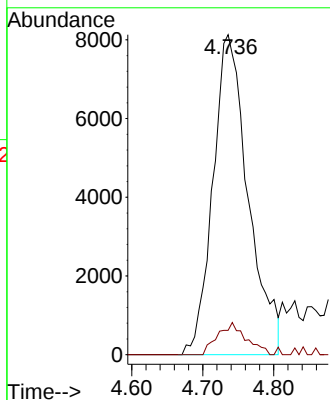
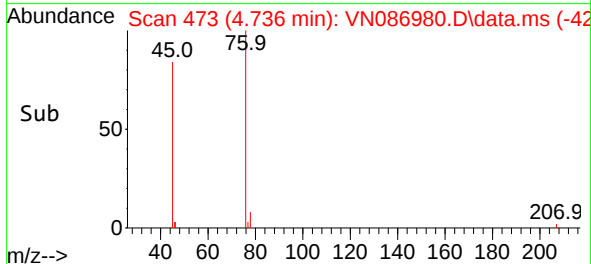
Instrument :
MSVOA_N
ClientSampleId :
250611078-02-VOA



Tgt Ion: 76 Resp: 2802
Ion Ratio Lower Upper
76 100
78 7.6 7.3 10.9

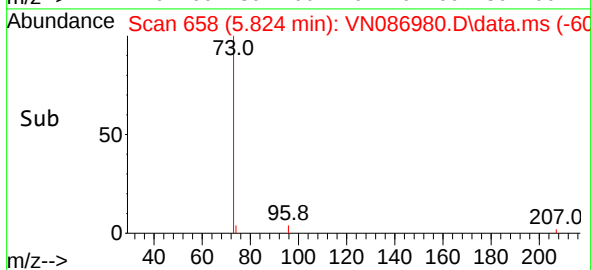
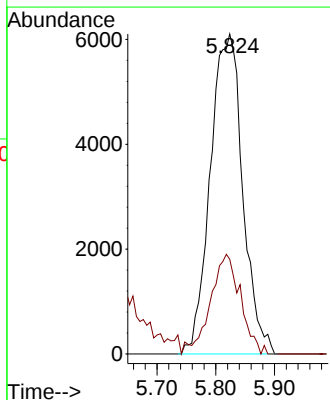
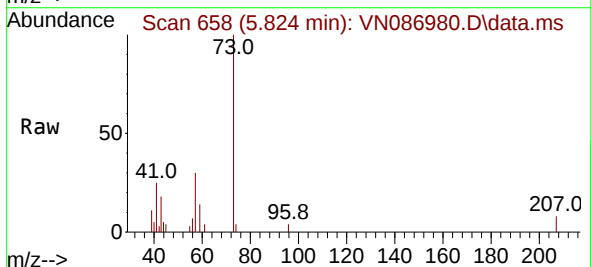
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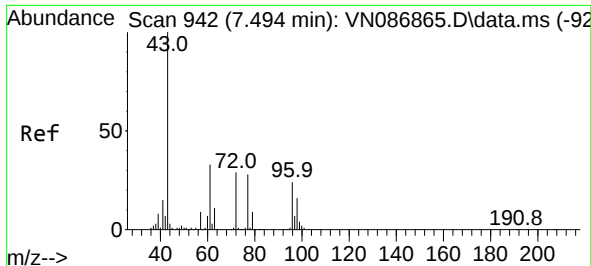
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#19
Methyl tert-butyl Ether
Concen: 2.697 ug/l
RT: 5.824 min Scan# 658
Delta R.T. 0.012 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

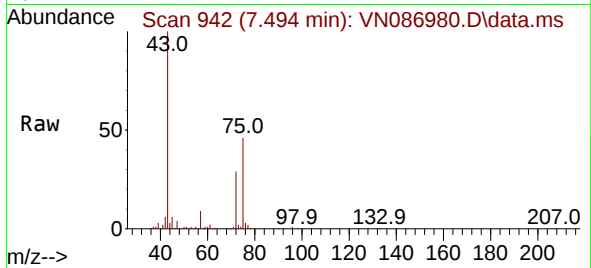
Tgt Ion: 73 Resp: 23354
Ion Ratio Lower Upper
73 100
57 29.6 17.4 26.2#





#25
2-Butanone
Concen: 242.578 ug/l m
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

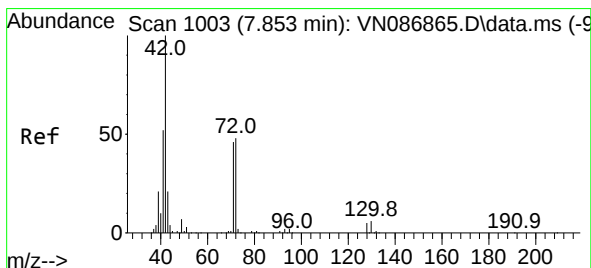
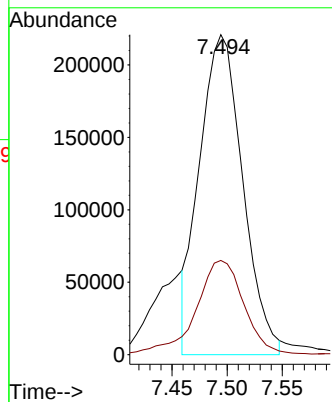
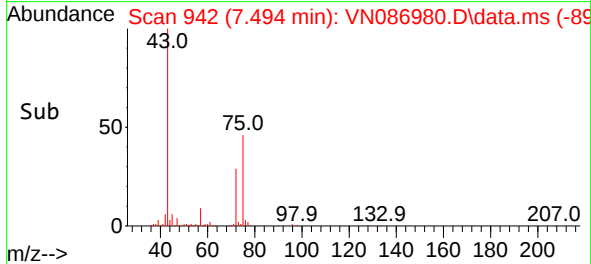
Instrument :
MSVOA_N
ClientSampleId :
250611078-02-VOA



Tgt Ion: 43 Resp: 60160
Ion Ratio Lower Upper
43 100
72 29.4 23.0 34.6

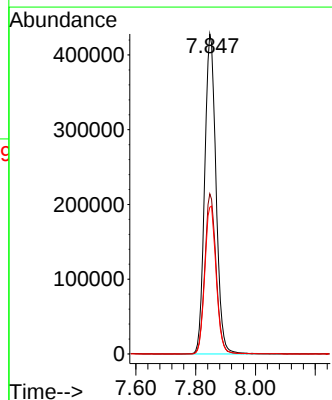
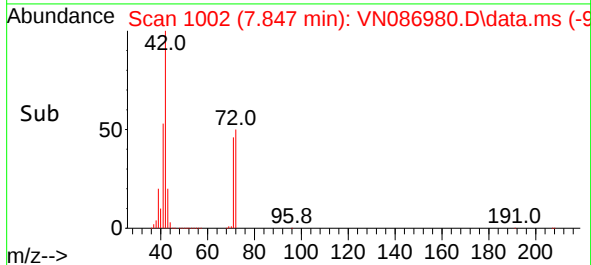
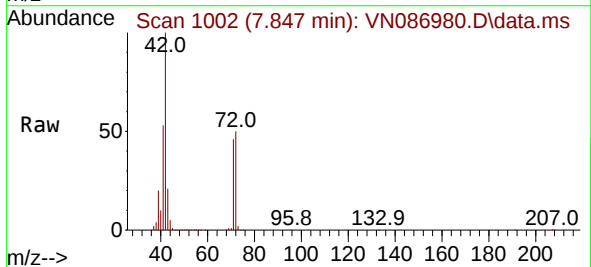
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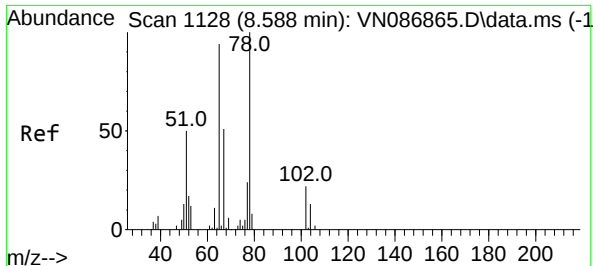
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#29
Tetrahydrofuran
Concen: 696.589 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

Tgt Ion: 42 Resp: 1125385
Ion Ratio Lower Upper
42 100
72 49.9 37.8 56.6
71 46.4 35.6 53.4





#33

1,2-Dichloroethane-d4

Concen: 52.687 ug/l

RT: 8.582 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VN086980.D

Acq: 12 Jun 2025 16:17

Instrument :

MSVOA_N

ClientSampleId :

250611078-02-VOA

Tgt Ion: 65 Resp: 15158

Ion Ratio Lower Upper

65 100

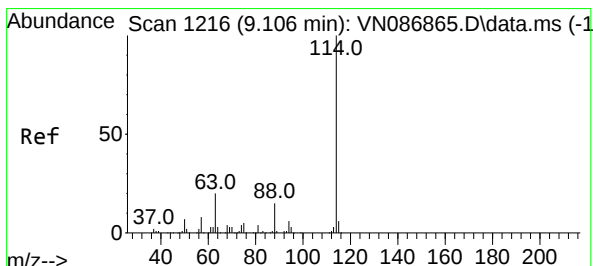
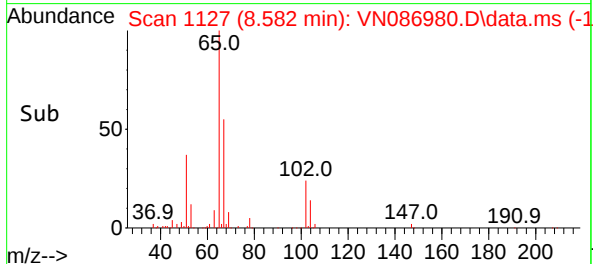
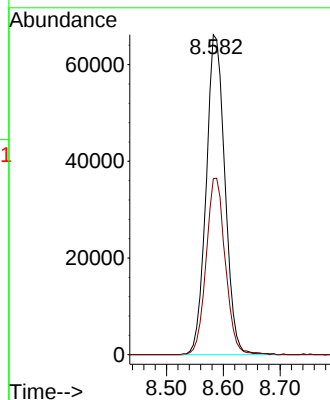
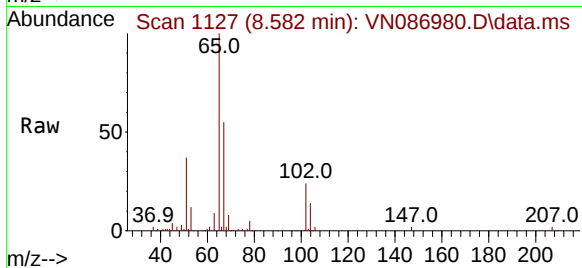
67 56.2 0.0 105.6

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: VN086980.D

Acq: 12 Jun 2025 16:17

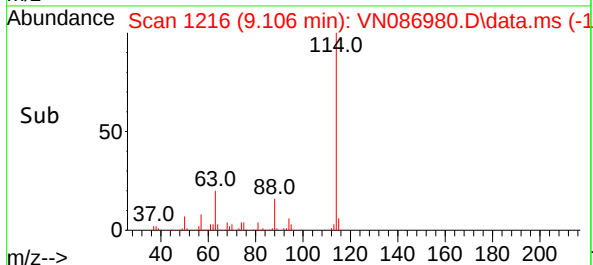
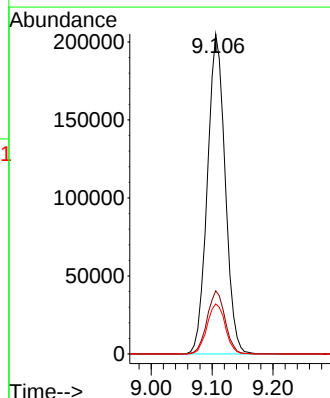
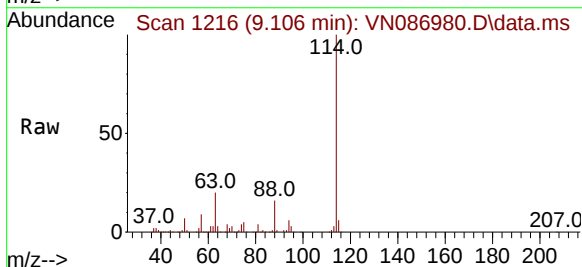
Tgt Ion:114 Resp: 415965

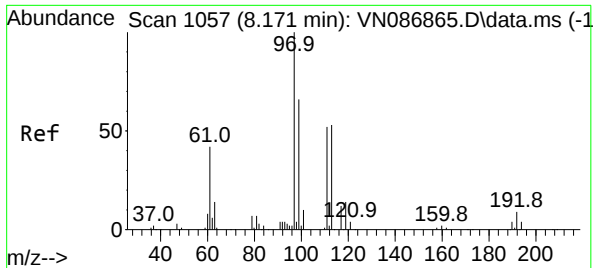
Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

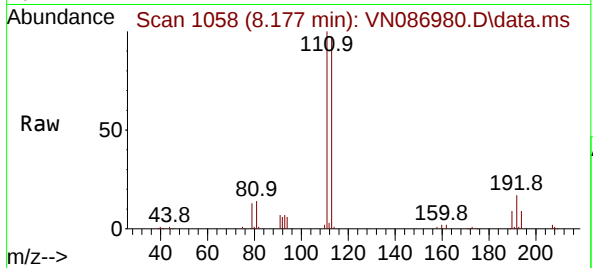
88 15.6 0.0 30.2





#35
Dibromofluoromethane
Concen: 51.749 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

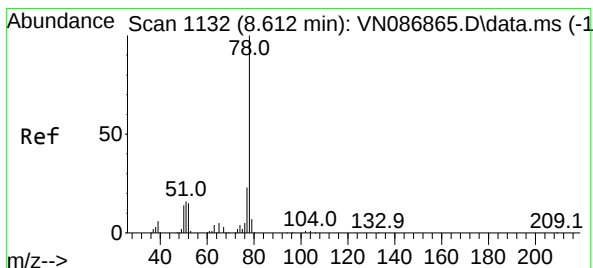
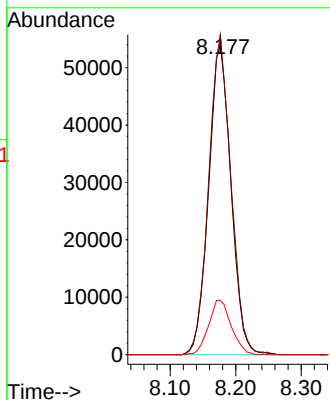
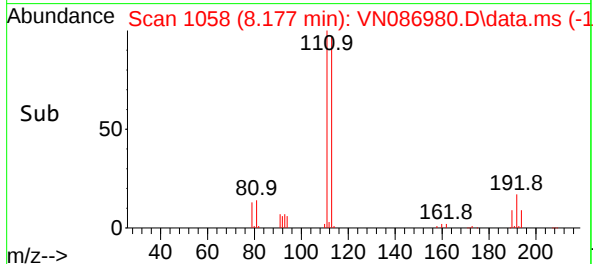
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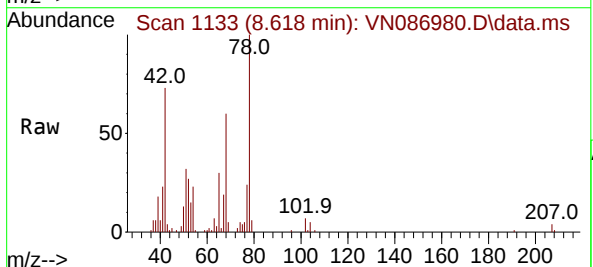
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Ion Ratio Lower Upper
113 100
111 102.9 84.2 126.2
192 17.8 14.2 21.4

Manual Integrations
APPROVED

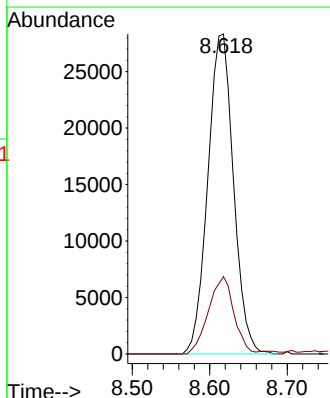
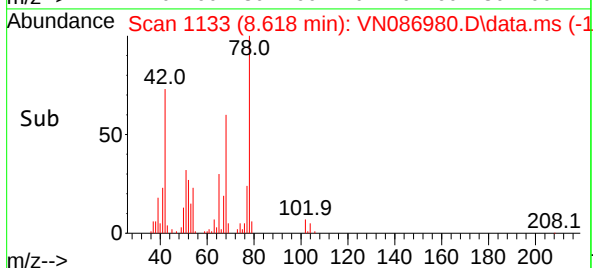
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

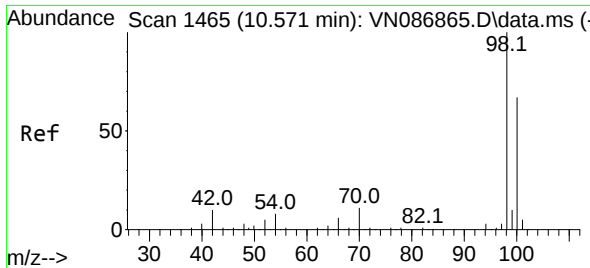


#40
Benzene
Concen: 5.430 ug/l
RT: 8.618 min Scan# 1133
Delta R.T. 0.006 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17



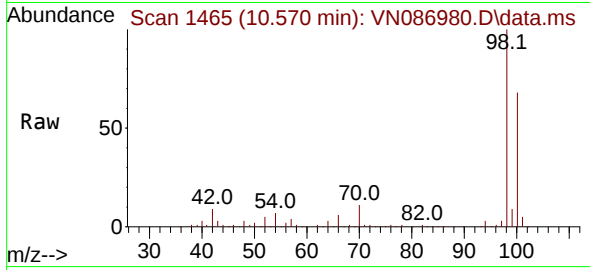
Tgt Ion: 78 Resp: 65221
Ion Ratio Lower Upper
78 100
77 24.1 18.7 28.1





#50
Toluene-d8
Concen: 52.860 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

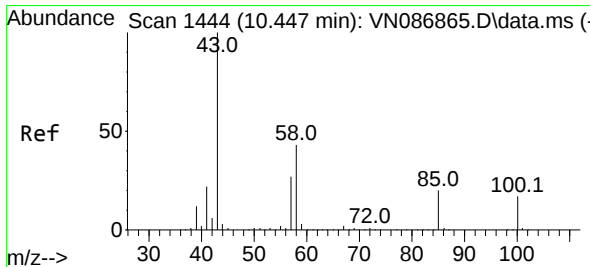
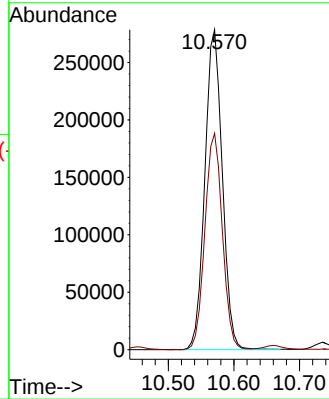
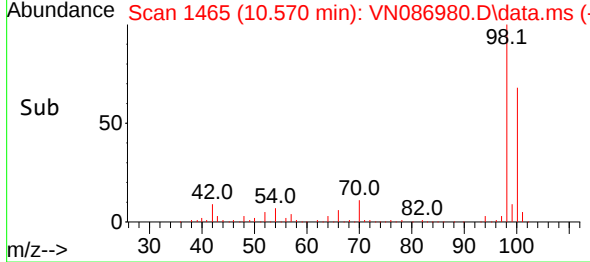
Instrument :
MSVOA_N
ClientSampleId :
250611078-02-VOA



Tgt Ion: 98 Resp: 515850
Ion Ratio Lower Upper
98 100
100 67.7 53.4 80.0

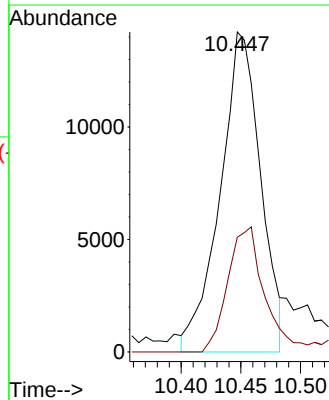
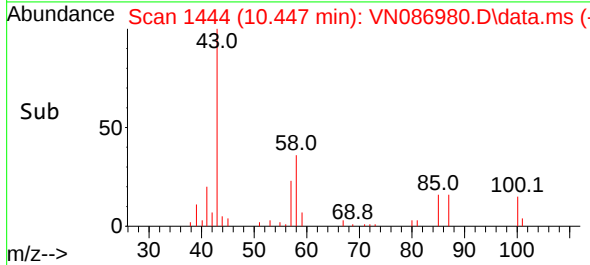
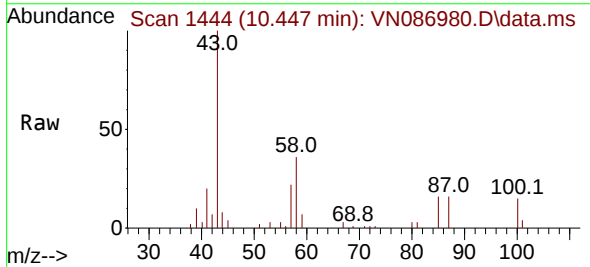
Manual Integrations
APPROVED

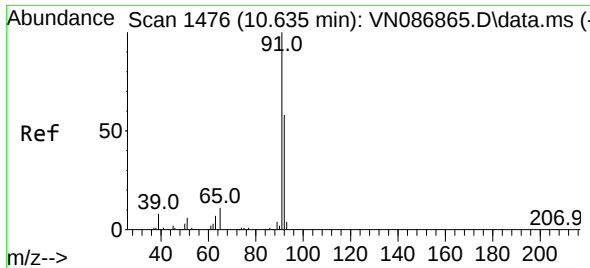
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#51
4-Methyl-2-Pentanone
Concen: 7.408 ug/l m
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

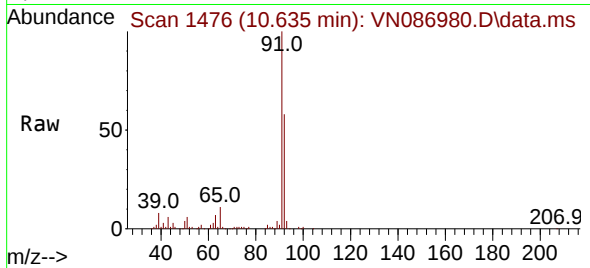
Tgt Ion: 43 Resp: 33469
Ion Ratio Lower Upper
43 100
58 15.4 34.2 51.4#





#52
Toluene
Concen: 15.778 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

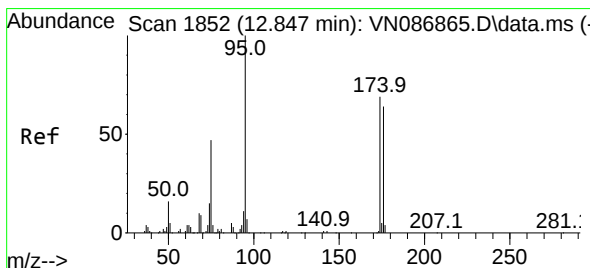
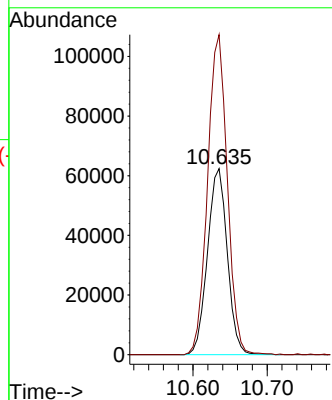
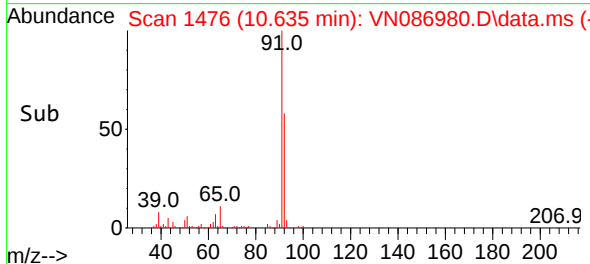
Instrument :
MSVOA_N
ClientSampleId :
250611078-02-VOA



Tgt Ion: 92 Resp: 11582
Ion Ratio Lower Upper
92 100
91 171.1 136.5 204.7

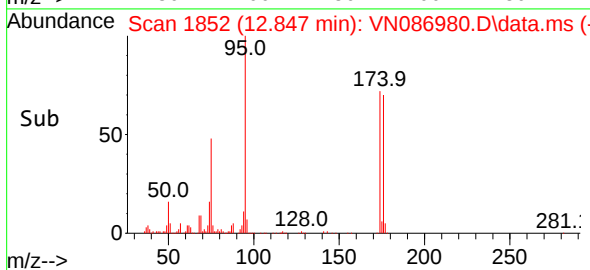
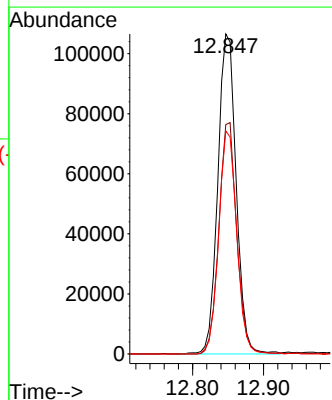
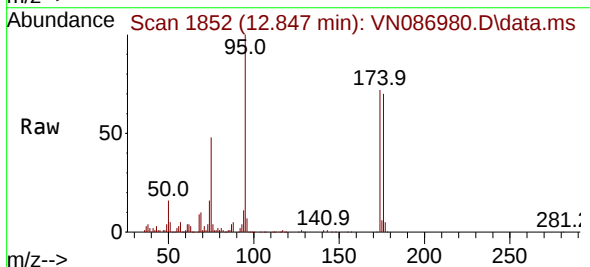
Manual Integrations
APPROVED

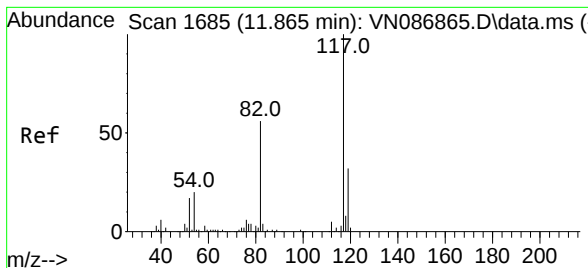
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#62
4-Bromofluorobenzene
Concen: 52.540 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

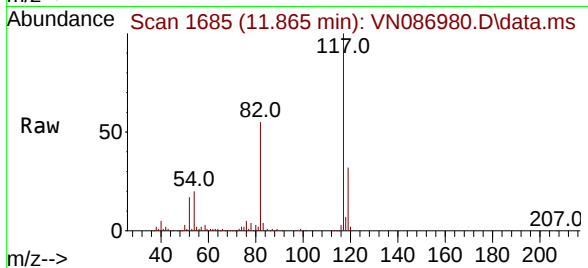
Tgt Ion: 95 Resp: 190491
Ion Ratio Lower Upper
95 100
174 70.5 0.0 141.8
176 68.3 0.0 132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

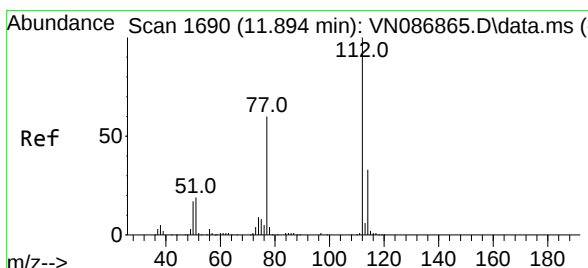
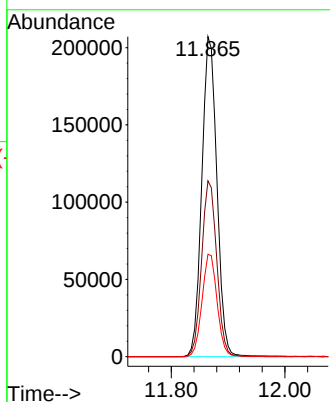
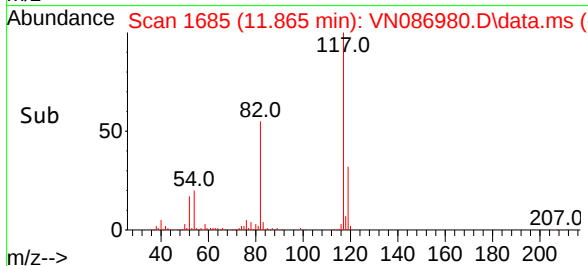
Instrument :
MSVOA_N
ClientSampleId :
250611078-02-VOA



Tgt Ion:117 Resp: 381430
Ion Ratio Lower Upper
117 100
82 55.0 44.6 67.0
119 32.0 25.5 38.3

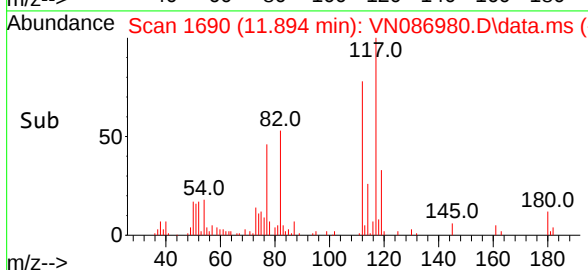
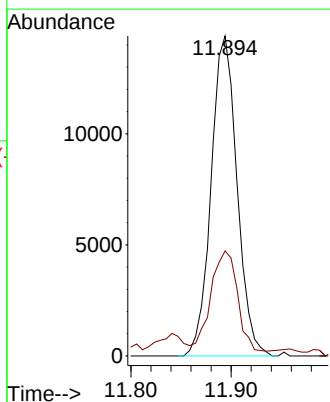
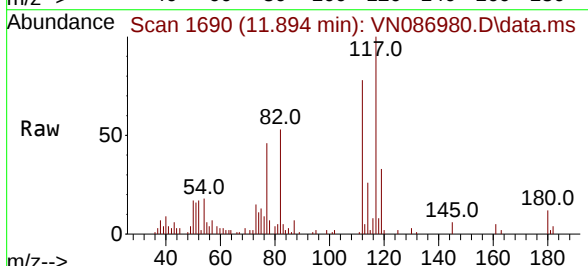
Manual Integrations
APPROVED

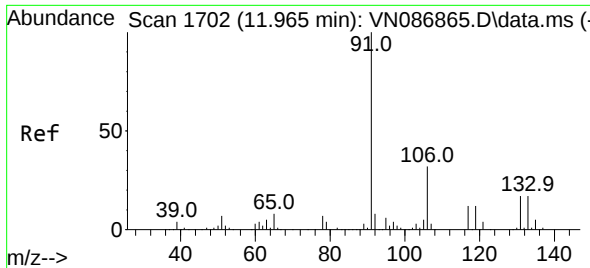
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#65
Chlorobenzene
Concen: 3.072 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

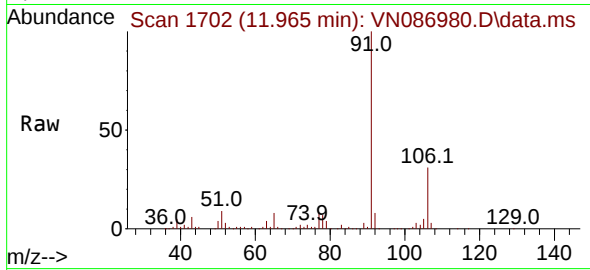
Tgt Ion:112 Resp: 25847
Ion Ratio Lower Upper
112 100
114 31.0 26.2 39.2





#67
Ethyl Benzene
Concen: 16.123 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

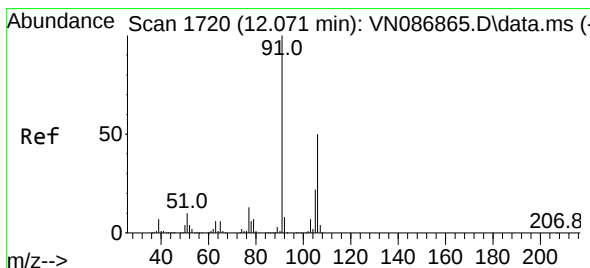
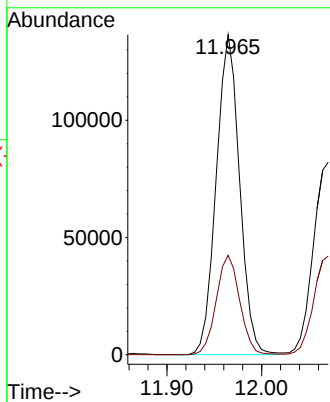
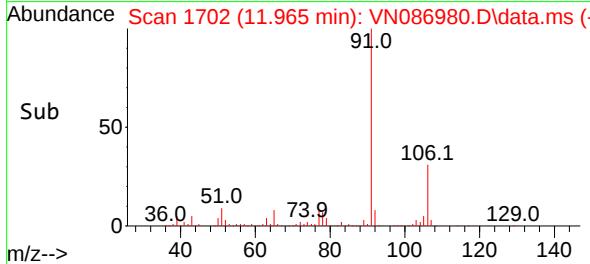
Instrument :
MSVOA_N
ClientSampleId :
250611078-02-VOA



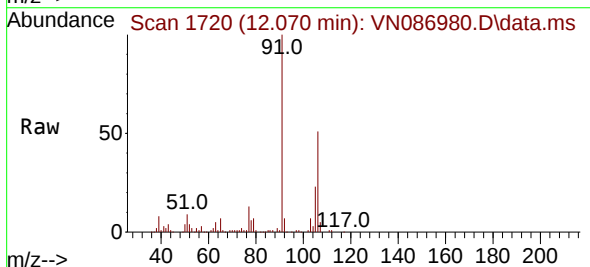
Tgt Ion: 91 Resp: 233632
Ion Ratio Lower Upper
91 100
106 31.1 25.4 38.2

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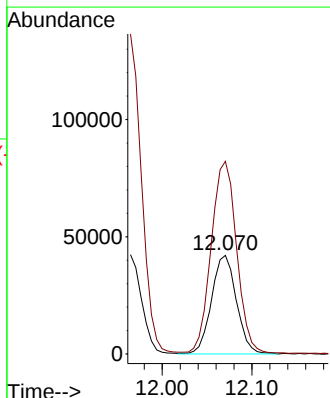
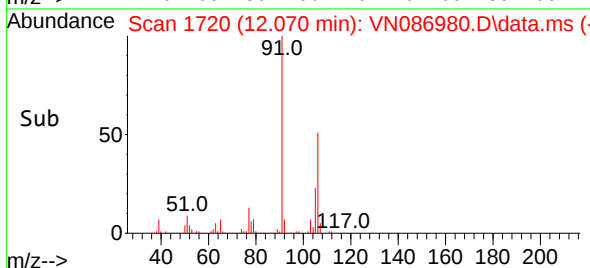
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

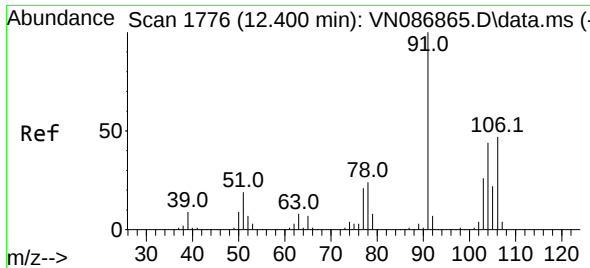


#68
m/p-Xylenes
Concen: 14.628 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17



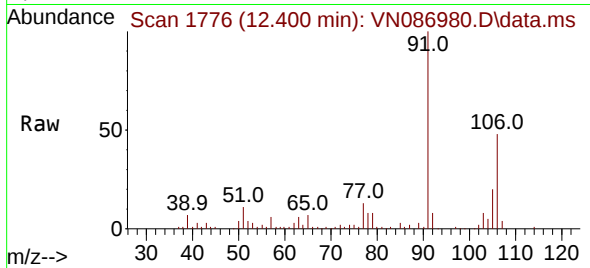
Tgt Ion:106 Resp: 81139
Ion Ratio Lower Upper
106 100
91 202.1 159.4 239.0





#69
o-Xylene
Concen: 8.483 ug/l
RT: 12.400 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

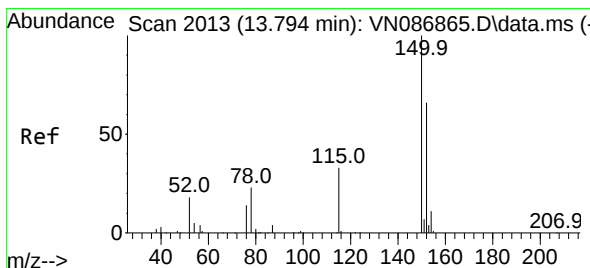
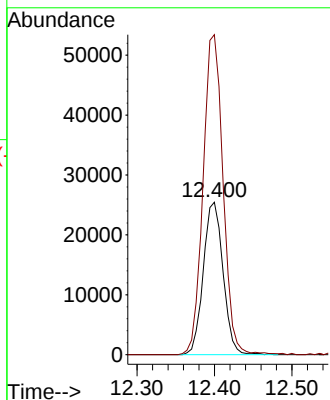
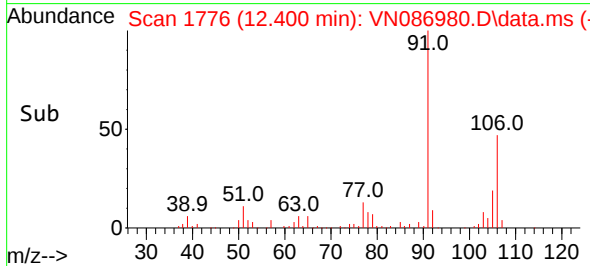
Instrument :
MSVOA_N
ClientSampleId :
250611078-02-VOA



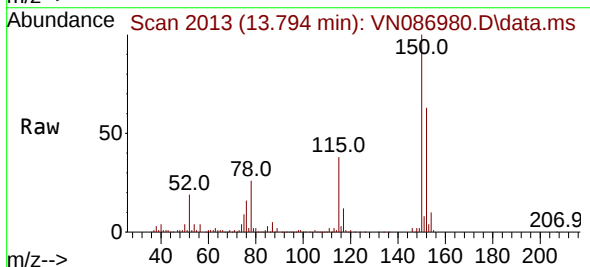
Tgt Ion:106 Resp: 45060
Ion Ratio Lower Upper
106 100
91 212.7 106.1 318.1

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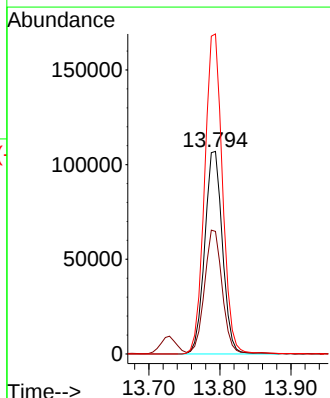
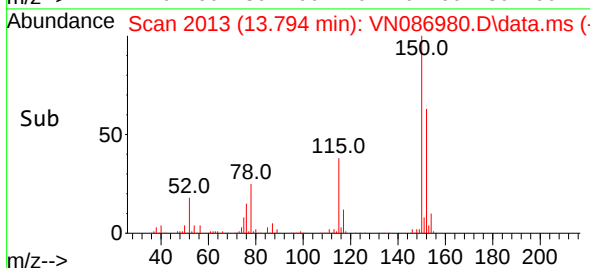
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

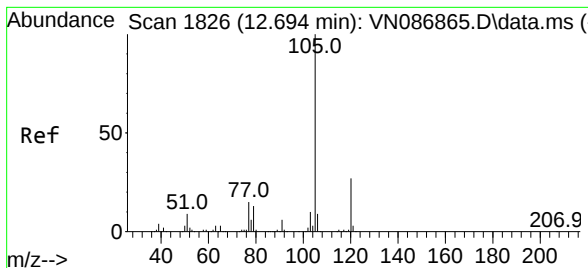


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17



Tgt Ion:152 Resp: 185553
Ion Ratio Lower Upper
152 100
115 60.0 30.1 90.5
150 159.7 0.0 345.0





#73

Isopropylbenzene

Concen: 2.004 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN086980.D

Acq: 12 Jun 2025 16:17

Instrument :

MSVOA_N

ClientSampleId :

250611078-02-VOA

Tgt Ion:105 Resp: 27092

Ion Ratio Lower Upper

105 100

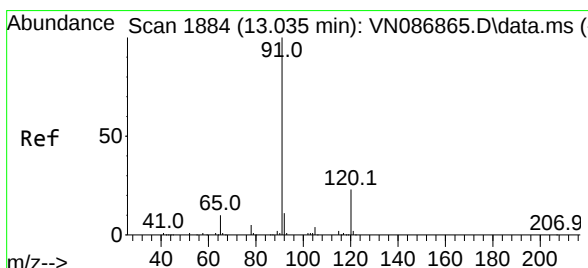
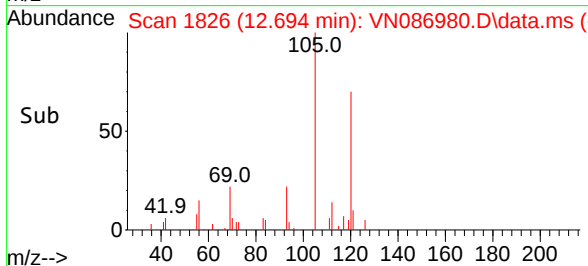
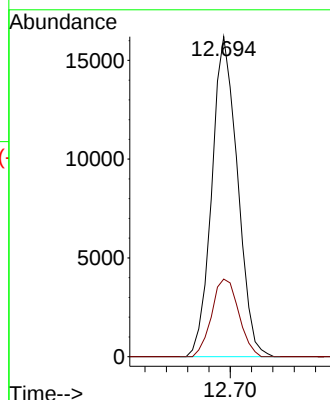
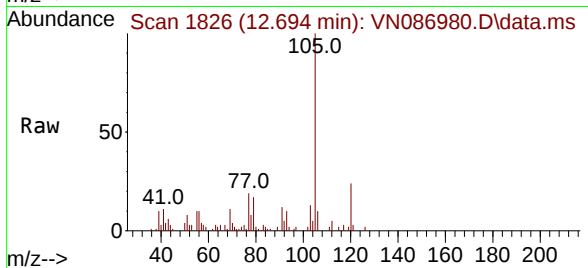
120 25.5 13.5 40.4

Manual Integrations

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Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#78

n-propylbenzene

Concen: 0.837 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.000 min

Lab File: VN086980.D

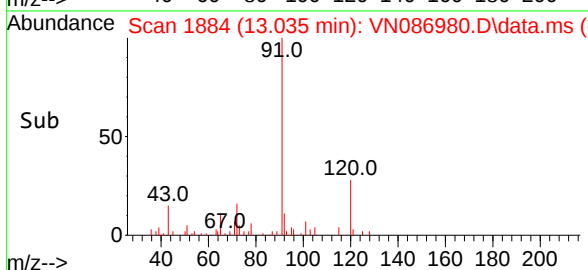
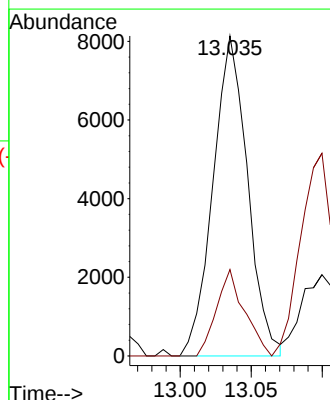
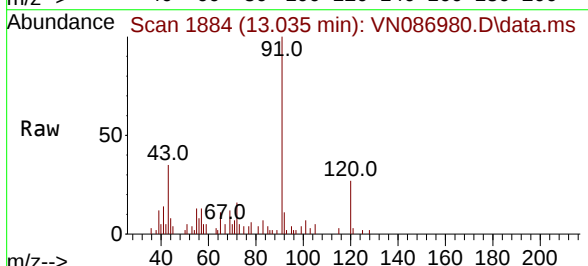
Acq: 12 Jun 2025 16:17

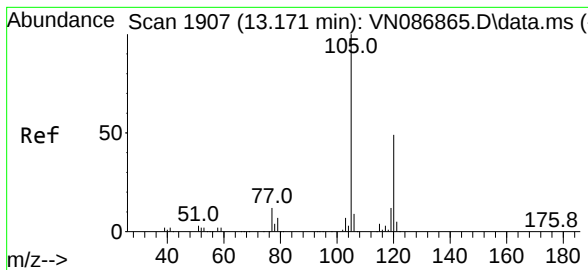
Tgt Ion: 91 Resp: 13756

Ion Ratio Lower Upper

91 100

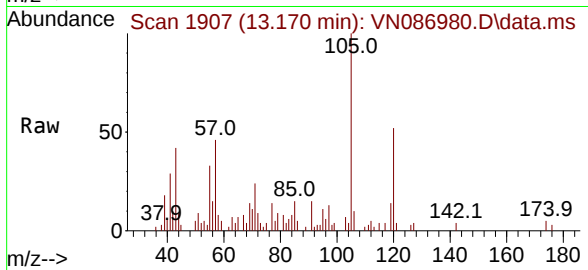
120 21.8 11.4 34.2





#80
1,3,5-Trimethylbenzene
Concen: 1.300 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

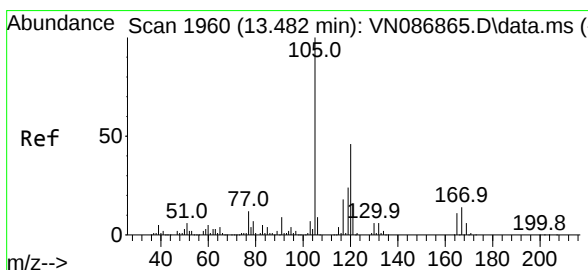
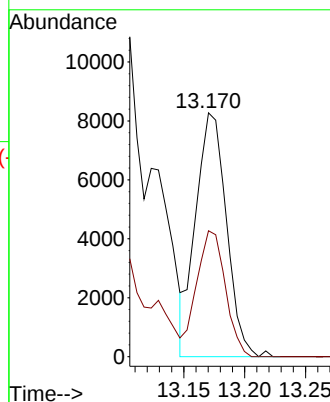
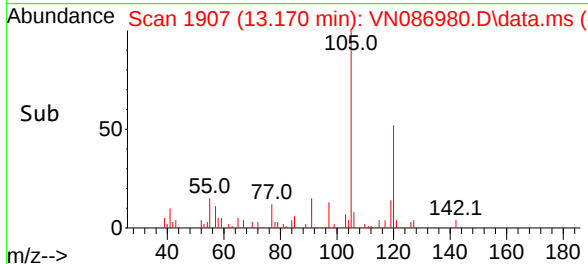
Instrument :
MSVOA_N
ClientSampleId :
250611078-02-VOA



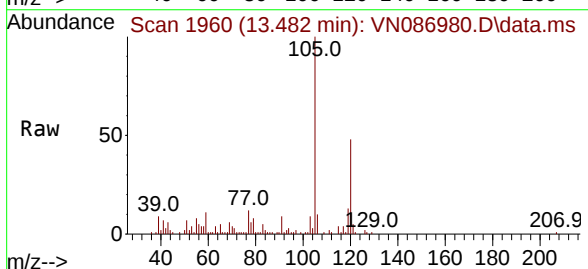
Tgt Ion:105 Resp: 14512
Ion Ratio Lower Upper
105 100
120 48.3 24.9 74.6

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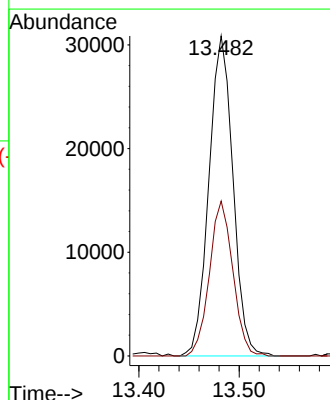
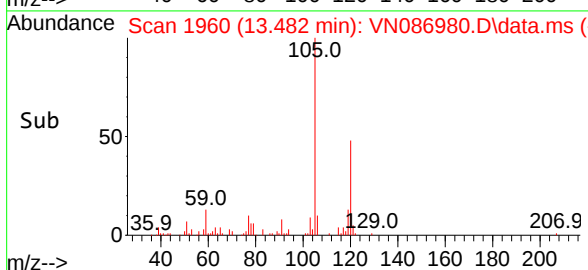
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

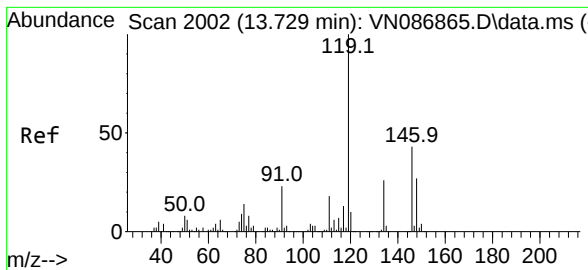


#84
1,2,4-Trimethylbenzene
Concen: 4.596 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17



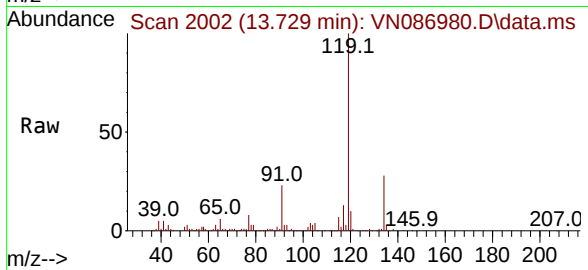
Tgt Ion:105 Resp: 51433
Ion Ratio Lower Upper
105 100
120 47.1 23.2 69.6





#86
p-Isopropyltoluene
Concen: 16.558 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17

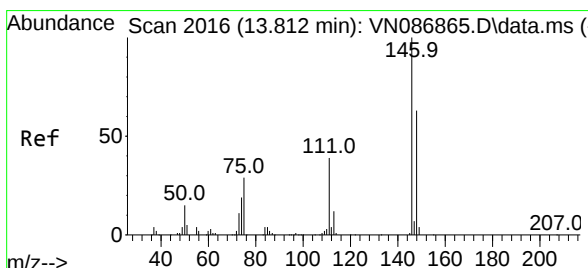
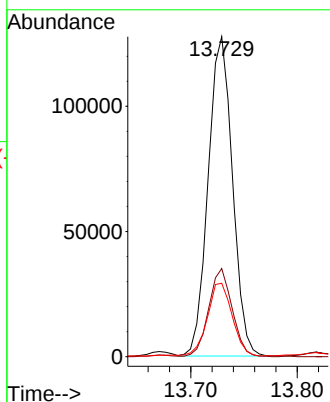
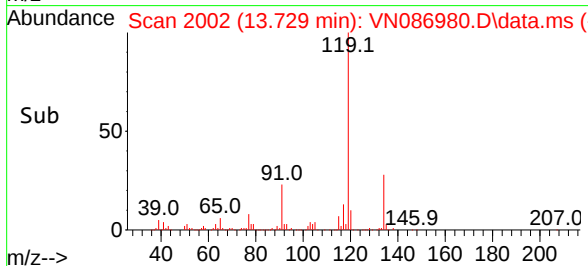
Instrument :
MSVOA_N
ClientSampleId :
250611078-02-VOA



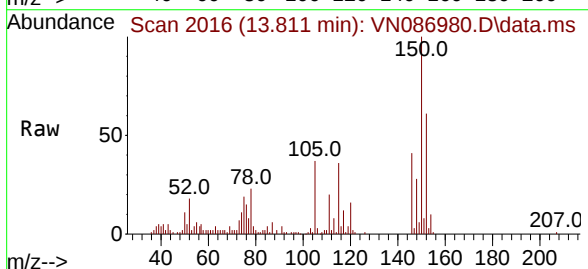
Tgt Ion:119 Resp: 20306
Ion Ratio Lower Upper
119 100
134 26.5 13.5 40.4
91 23.4 11.5 34.4

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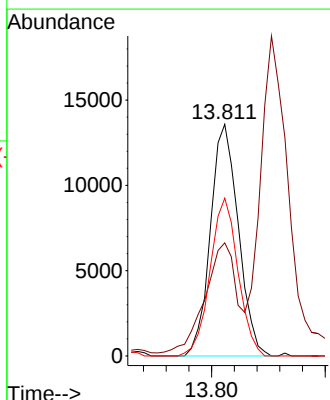
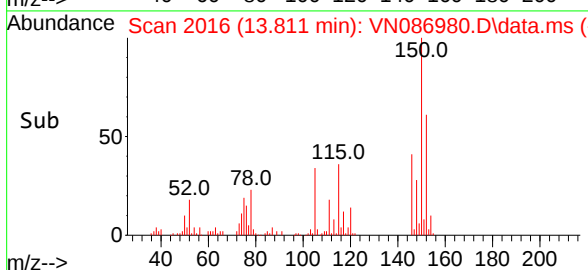
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

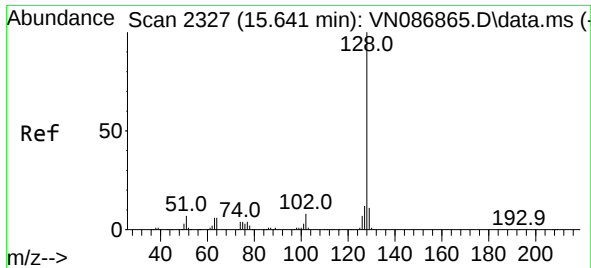


#88
1,4-Dichlorobenzene
Concen: 3.722 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN086980.D
Acq: 12 Jun 2025 16:17



Tgt Ion:146 Resp: 23143
Ion Ratio Lower Upper
146 100
111 54.3 19.9 59.7
148 68.0 31.8 95.4





#95

Naphthalene

Concen: 28.046 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086980.D

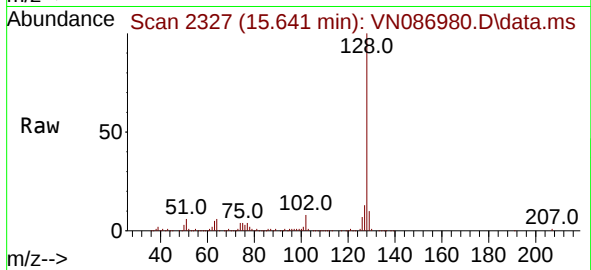
Acq: 12 Jun 2025 16:17

Instrument :

MSVOA_N

ClientSampleId :

250611078-02-VOA



Tgt Ion:128 Resp: 390628

Ion Ratio Lower Upper

128 100

127 12.4 10.2 15.2

129 10.8 8.8 13.2

Manual Integrations

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Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025

