

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN082025\  
 Data File : VN087613.D  
 Acq On : 20 Aug 2025 13:25  
 Operator : JC\MD  
 Sample : Q2904-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 002 35th Ave (JULY)

Quant Time: Aug 21 02:44:36 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

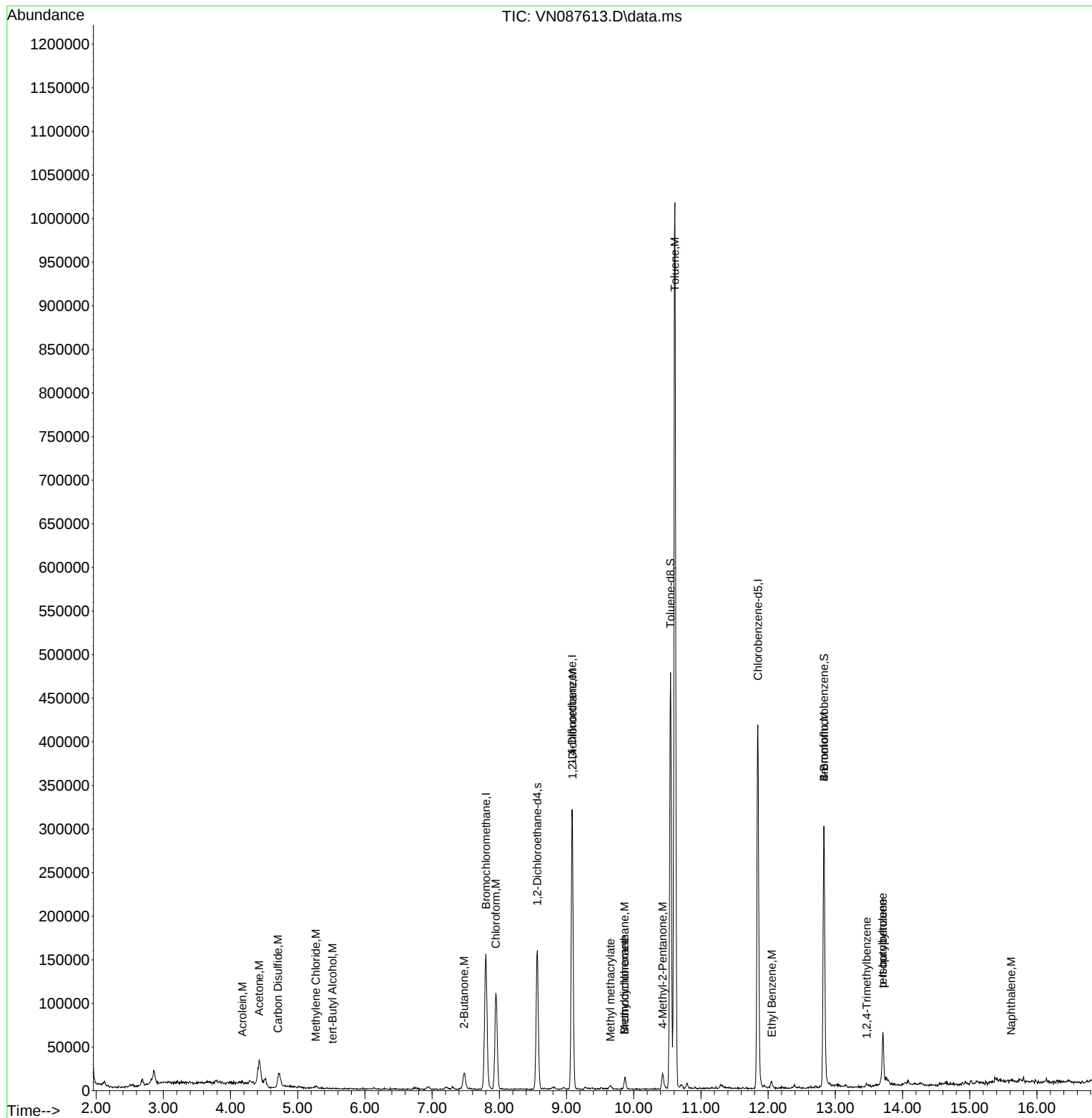
| Compound                    | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|--------|----------|
| -----                       |                |      |            |          |        |          |
| Internal Standards          |                |      |            |          |        |          |
| 1) Bromochloromethane       | 7.800          | 128  | 47710      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.083          | 114  | 260602     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.847         | 117  | 225830     | 30.000   | ug/l   | 0.00     |
|                             |                |      |            |          |        |          |
| System Monitoring Compounds |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.565          | 65   | 131877     | 29.968   | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 91 - 110 |      | Recovery = | 99.900%  |        |          |
| 60) 4-Bromofluorobenzene    | 12.829         | 95   | 107793     | 27.736   | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 63 - 112 |      | Recovery = | 92.467%  |        |          |
| 63) Toluene-d8              | 10.547         | 98   | 314059     | 30.224   | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 91 - 112 |      | Recovery = | 100.733% |        |          |
|                             |                |      |            |          |        |          |
| Target Compounds            |                |      |            |          |        |          |
|                             |                |      |            |          | Qvalue |          |
| 13) Acrolein                | 4.177          | 56   | 685        | 0.930    | ug/l   | 94       |
| 15) Acetone                 | 4.424          | 58   | 14457      | 24.030   | ug/l # | 67       |
| 16) Carbon Disulfide        | 4.706          | 76   | 6792       | 0.838    | ug/l   | 99       |
| 18) Methylene Chloride      | 5.271          | 84   | 932        | 0.277    | ug/l # | 36       |
| 23) tert-Butyl Alcohol      | 5.518          | 59   | 415        | 0.464    | ug/l # | 100      |
| 25) Chloroform              | 7.947          | 83   | 107270     | 16.386   | ug/l   | 95       |
| 30) 2-Butanone              | 7.477          | 43   | 31099      | 9.926    | ug/l # | 81       |
| 36) 1,2-Dichloroethane      | 9.088          | 62   | 11168      | 2.059    | ug/l # | 77       |
| 38) Methylcyclohexane       | 9.865          | 83   | 9173       | 1.860    | ug/l # | 17       |
| 41) Bromodichloromethane    | 9.865          | 83   | 9316       | 1.737    | ug/l   | 99       |
| 46) Methyl methacrylate     | 9.653          | 41   | 1386       | 0.286    | ug/l # | 16       |
| 56) Bromoform               | 12.829         | 173  | 971        | 0.390    | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone    | 10.430         | 43   | 15574      | 2.681    | ug/l   | 96       |
| 62) Toluene                 | 10.612         | 91   | 759622     | 54.499   | ug/l   | 100      |
| 66) Ethyl Benzene           | 12.053         | 91   | 4031       | 0.259    | ug/l   | 90       |
| 79) tert-butylbenzene       | 13.706         | 119  | 32681      | 3.176    | ug/l   | 59       |
| 80) 1,2,4-Trimethylbenzene  | 13.465         | 105  | 2449       | 0.201    | ug/l   | 97       |
| 82) p-Isopropyltoluene      | 13.706         | 119  | 32681      | 2.628    | ug/l   | 99       |
| 91) Naphthalene             | 15.617         | 128  | 3041       | 0.222    | ug/l # | 80       |
| -----                       |                |      |            |          |        |          |

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

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Sample : Q2904-02  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
002 35th Ave (JULY)

Quant Time: Aug 21 02:44:36 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Aug 06 02:01:21 2025  
Response via : Initial Calibration

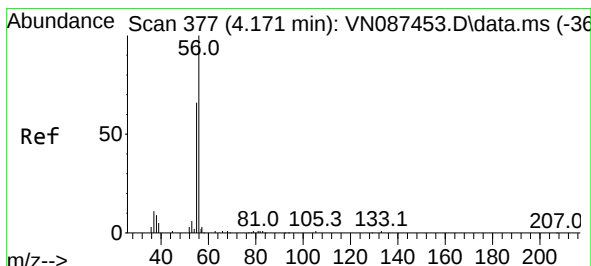
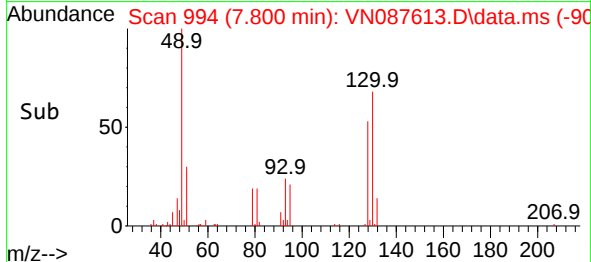
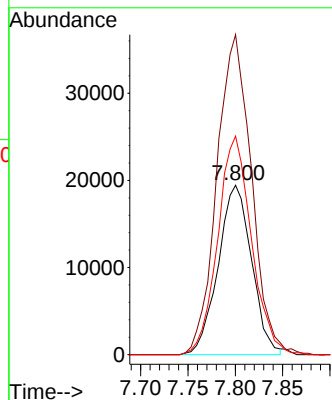
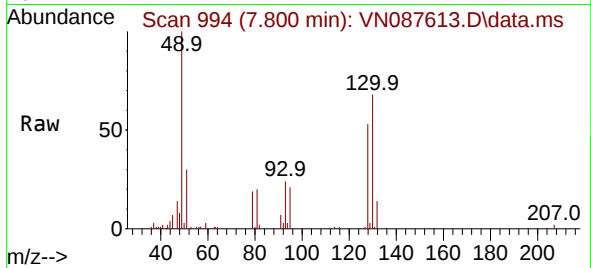




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.800 min Scan# 994  
Delta R.T. 0.000 min  
Lab File: VN087613.D  
Acq: 20 Aug 2025 13:25

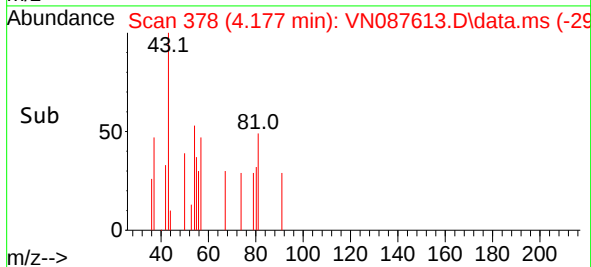
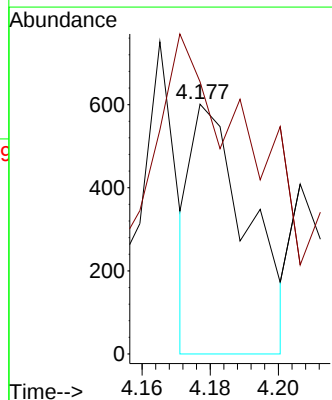
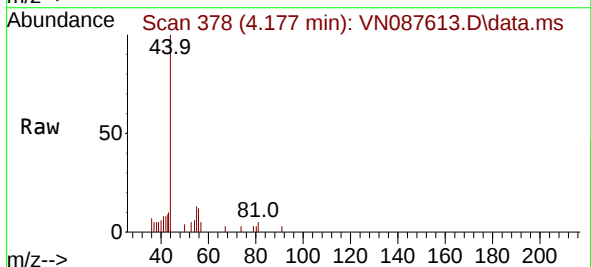
Instrument :  
MSVOA\_N  
ClientSampleId :  
002 35th Ave (JULY)

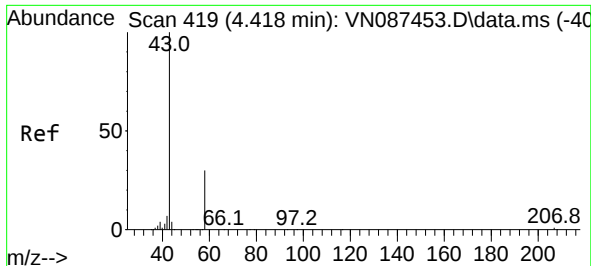
Tgt Ion:128 Resp: 47710  
Ion Ratio Lower Upper  
128 100  
49 195.6 0.0 494.8  
130 130.5 0.0 321.5



#13  
Acrolein  
Concen: 0.930 ug/l  
RT: 4.177 min Scan# 378  
Delta R.T. 0.006 min  
Lab File: VN087613.D  
Acq: 20 Aug 2025 13:25

Tgt Ion: 56 Resp: 685  
Ion Ratio Lower Upper  
56 100  
55 76.6 57.4 86.0





#15

Acetone

Concen: 24.030 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN087613.D

Acq: 20 Aug 2025 13:25

Instrument :

MSVOA\_N

ClientSampleId :

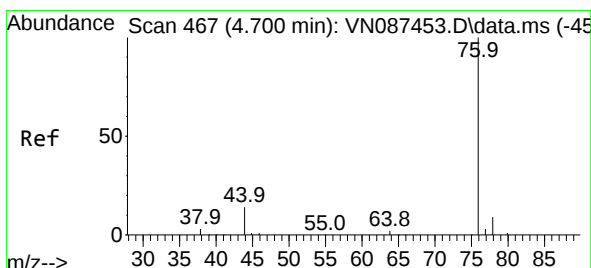
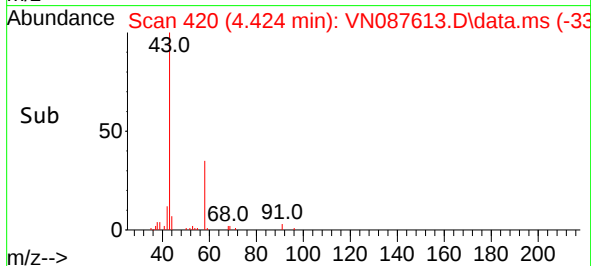
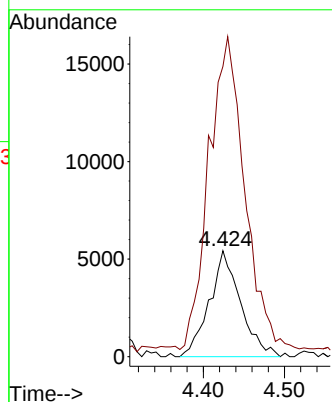
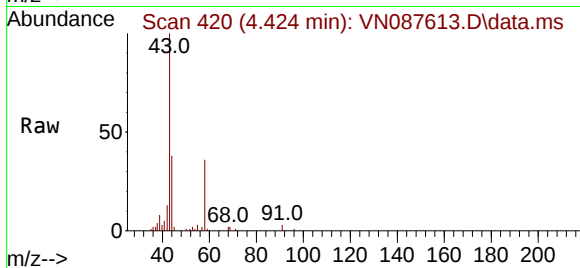
002 35th Ave (JULY)

Tgt Ion: 58 Resp: 14457

Ion Ratio Lower Upper

58 100

43 267.2 268.9 403.3#



#16

Carbon Disulfide

Concen: 0.838 ug/l

RT: 4.706 min Scan# 468

Delta R.T. 0.006 min

Lab File: VN087613.D

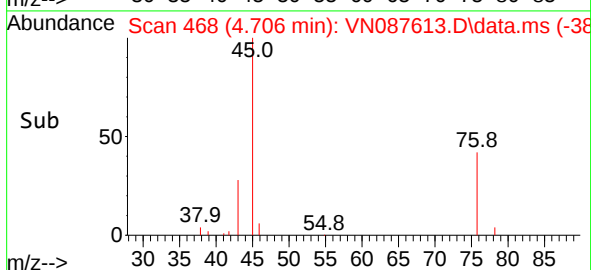
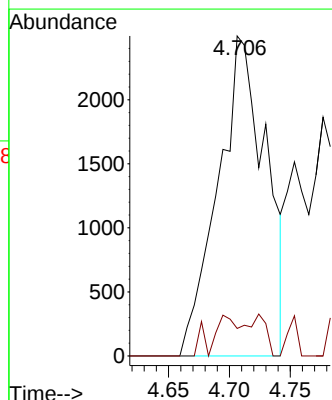
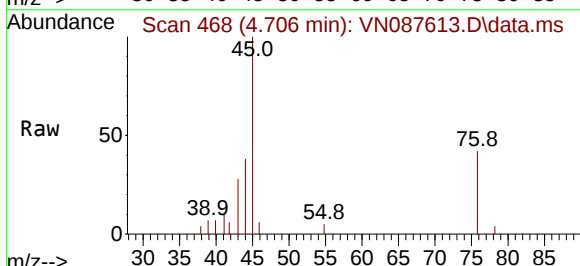
Acq: 20 Aug 2025 13:25

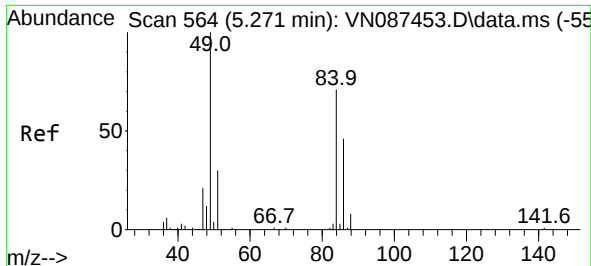
Tgt Ion: 76 Resp: 6792

Ion Ratio Lower Upper

76 100

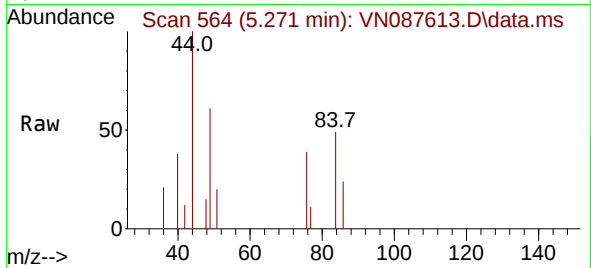
78 8.6 7.1 10.7



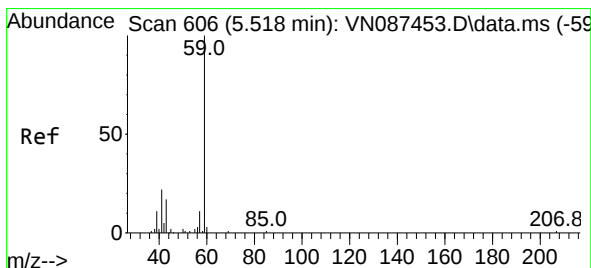
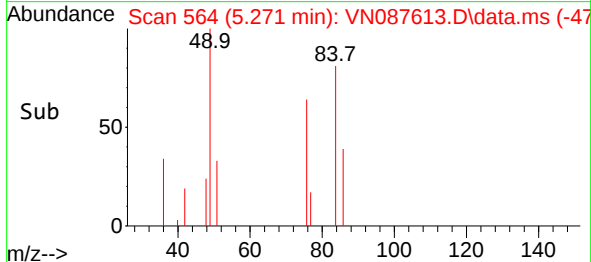
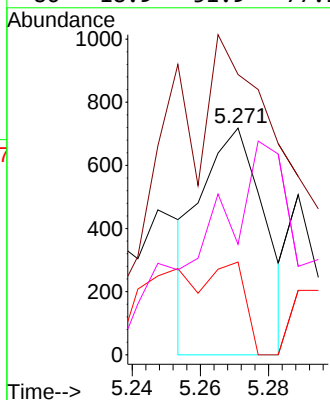


#18  
Methylene Chloride  
Concen: 0.277 ug/l  
RT: 5.271 min Scan# 50  
Delta R.T. 0.000 min  
Lab File: VN087613.D  
Acq: 20 Aug 2025 13:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
002 35th Ave (JULY)

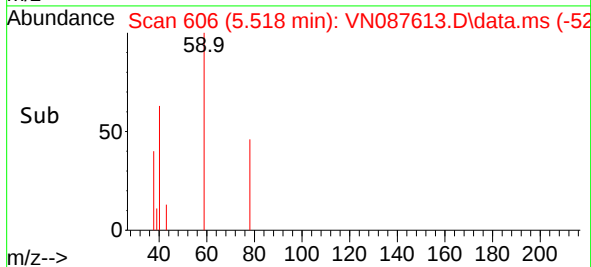
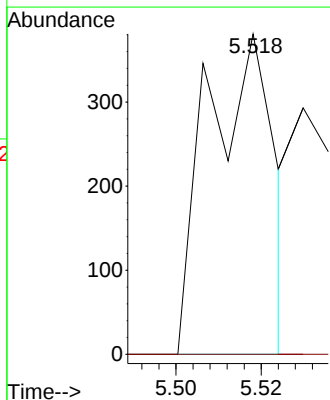
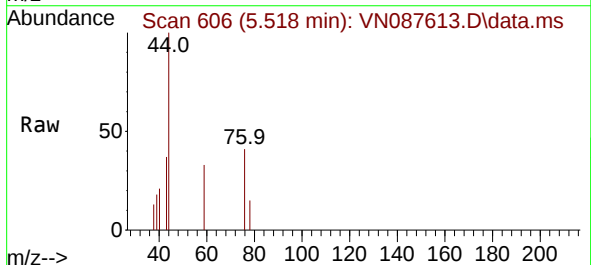


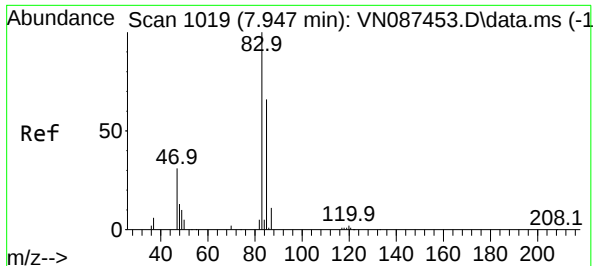
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 932    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 51.2  | 112.9 | 169.3# |
| 51       | 68.7  | 33.8  | 50.8#  |
| 86       | 18.9  | 51.9  | 77.9#  |



#23  
tert-Butyl Alcohol  
Concen: 0.464 ug/l  
RT: 5.518 min Scan# 606  
Delta R.T. 0.000 min  
Lab File: VN087613.D  
Acq: 20 Aug 2025 13:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 59    | Resp: | 415   |
| Ion      | Ratio | Lower | Upper |
| 59       | 100   |       |       |
| 52       | 0.0   | 0.0   | 0.0   |





#25

Chloroform

Concen: 16.386 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN087613.D

Acq: 20 Aug 2025 13:25

Instrument :

MSVOA\_N

ClientSampleId :

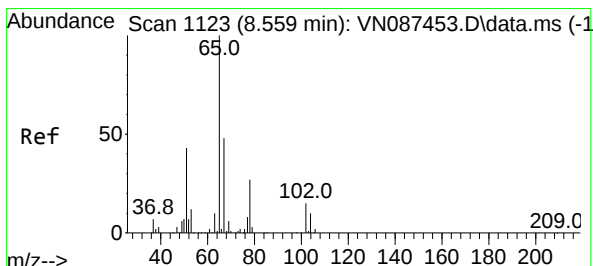
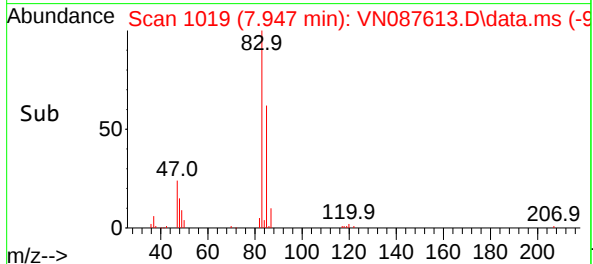
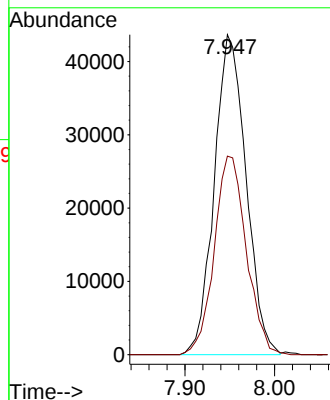
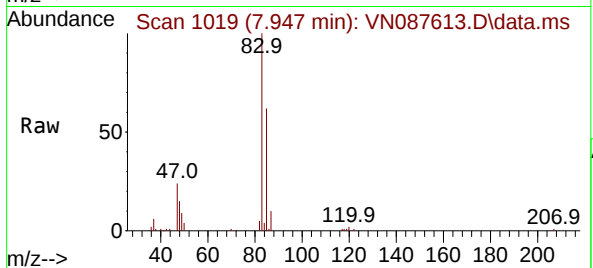
002 35th Ave (JULY)

Tgt Ion: 83 Resp: 107270

Ion Ratio Lower Upper

83 100

85 62.1 52.6 78.8



#27

1,2-Dichloroethane-d4

Concen: 29.968 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN087613.D

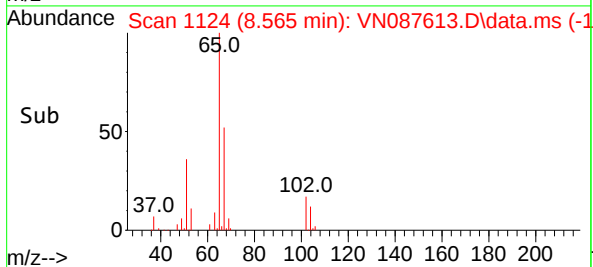
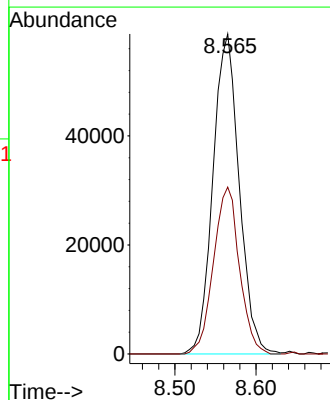
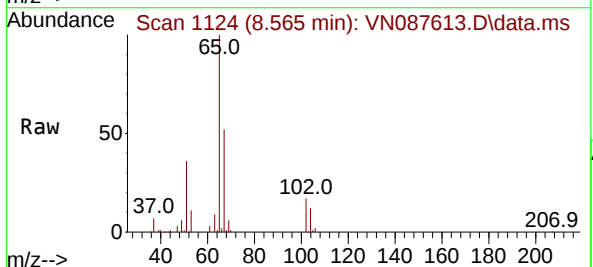
Acq: 20 Aug 2025 13:25

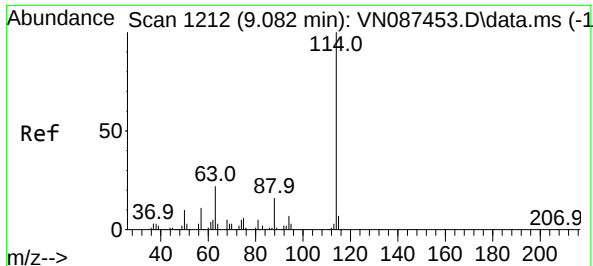
Tgt Ion: 65 Resp: 131877

Ion Ratio Lower Upper

65 100

67 51.5 40.8 61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 114

Delta R.T. 0.000 min

Lab File: VN087613.D

Acq: 20 Aug 2025 13:25

Instrument :

MSVOA\_N

ClientSampleId :

002 35th Ave (JULY)

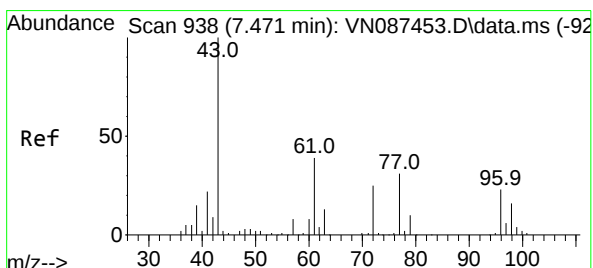
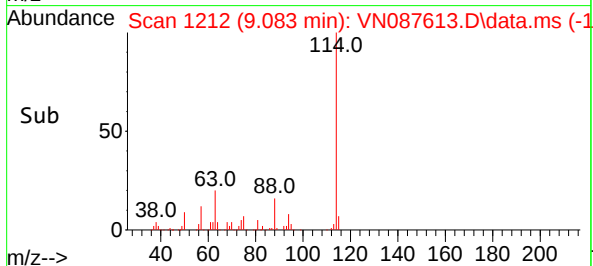
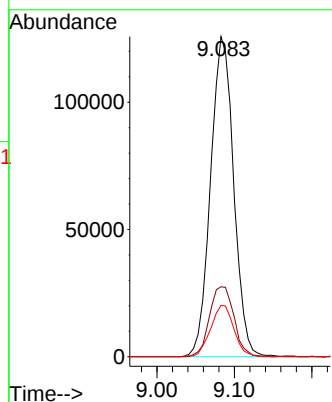
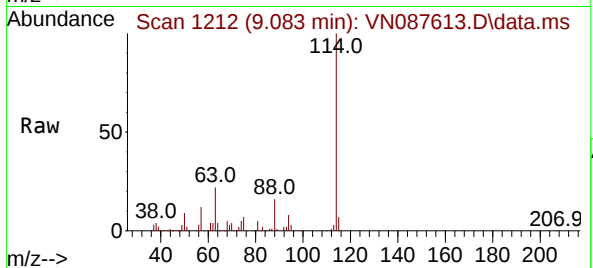
Tgt Ion:114 Resp: 260602

Ion Ratio Lower Upper

114 100

63 23.1 18.9 28.3

88 16.1 13.1 19.7



#30

2-Butanone

Concen: 9.926 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.006 min

Lab File: VN087613.D

Acq: 20 Aug 2025 13:25

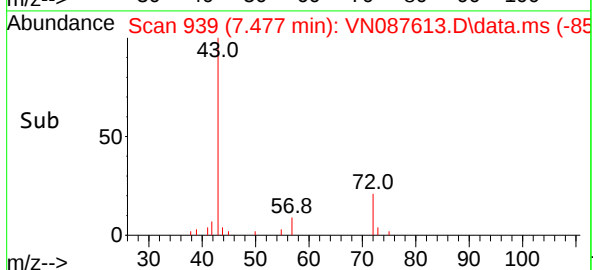
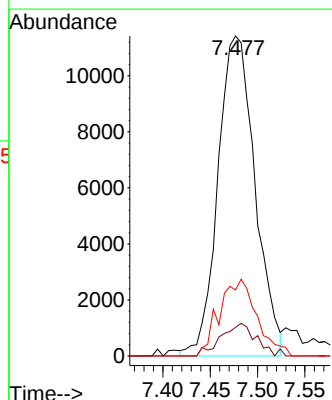
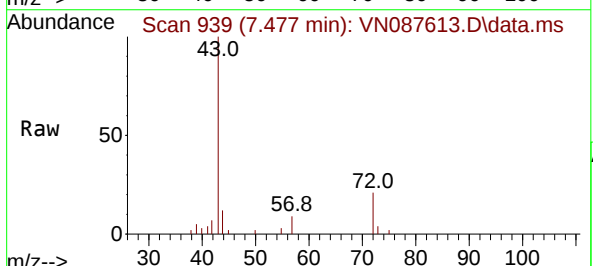
Tgt Ion: 43 Resp: 31099

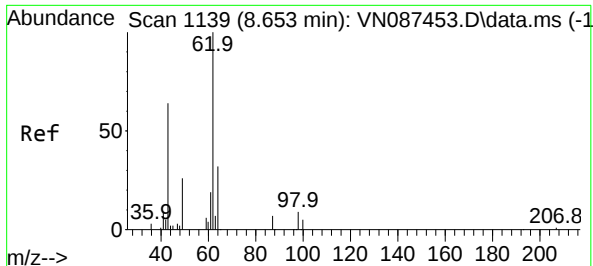
Ion Ratio Lower Upper

43 100

57 8.8 6.6 9.8

72 12.0 19.7 29.5#





#36

1,2-Dichloroethane

Concen: 2.059 ug/l

RT: 9.088 min Scan# 1139

Delta R.T. 0.435 min

Lab File: VN087613.D

Acq: 20 Aug 2025 13:25

Instrument :

MSVOA\_N

ClientSampleId :

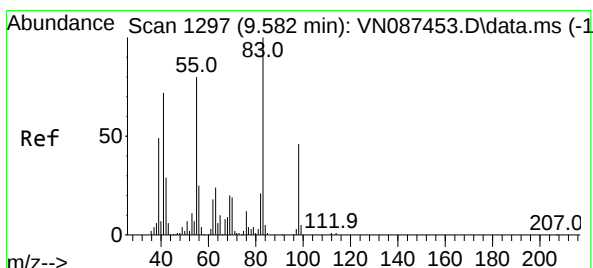
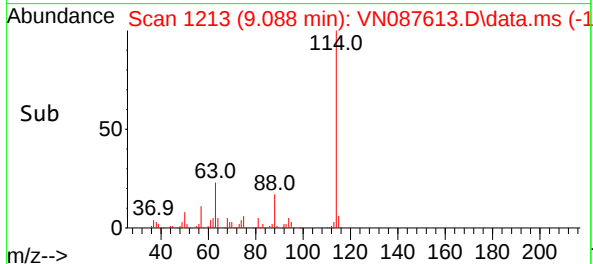
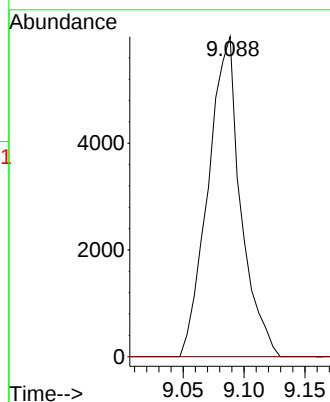
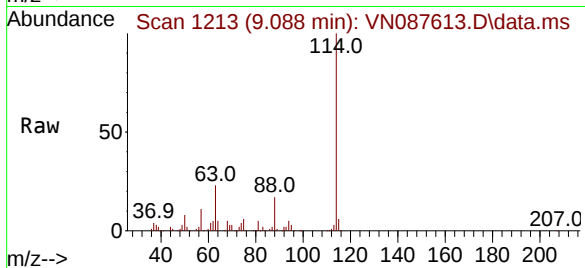
002 35th Ave (JULY)

Tgt Ion: 62 Resp: 11168

Ion Ratio Lower Upper

62 100

98 0.0 6.6 9.8#



#38

Methylcyclohexane

Concen: 1.860 ug/l

RT: 9.865 min Scan# 1345

Delta R.T. 0.282 min

Lab File: VN087613.D

Acq: 20 Aug 2025 13:25

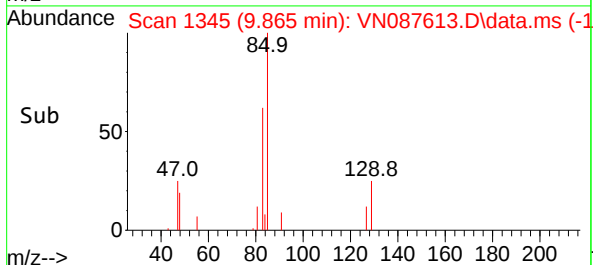
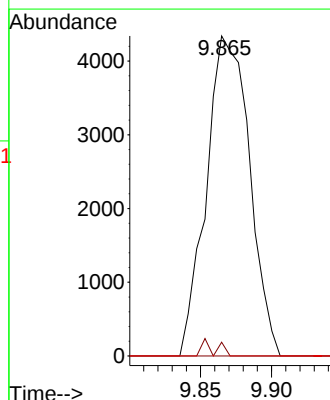
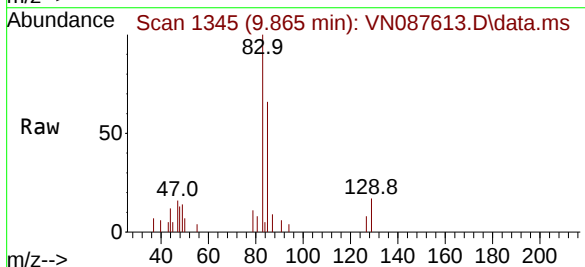
Tgt Ion: 83 Resp: 9173

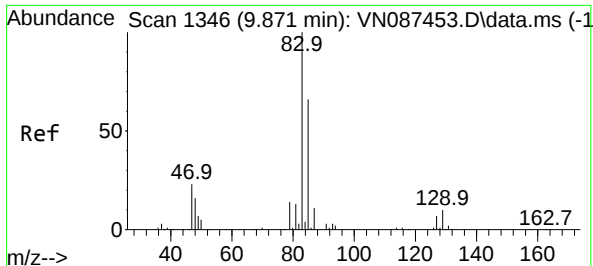
Ion Ratio Lower Upper

83 100

55 0.7 41.2 123.6#

98 0.0 23.3 69.9#

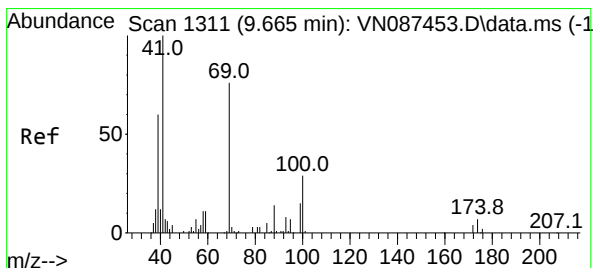
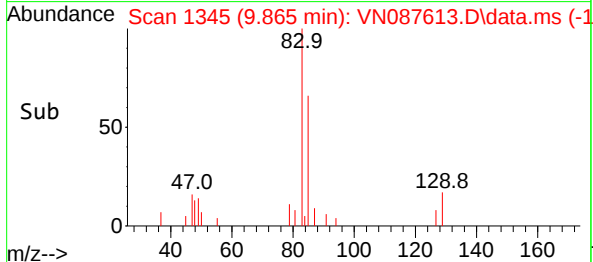
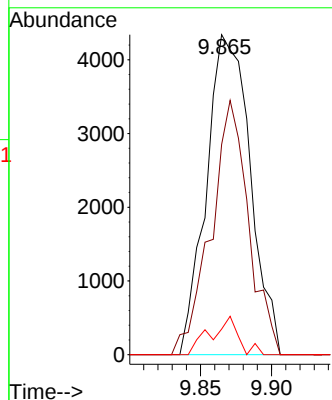
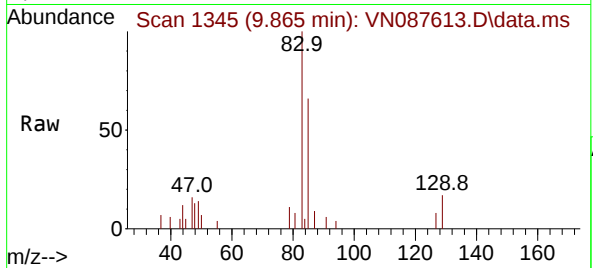




#41  
Bromodichloromethane  
Concen: 1.737 ug/l  
RT: 9.865 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN087613.D  
Acq: 20 Aug 2025 13:25

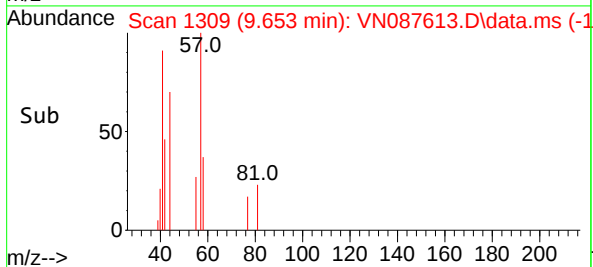
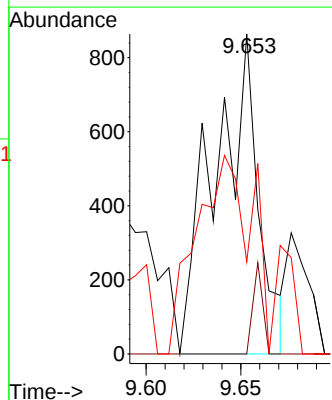
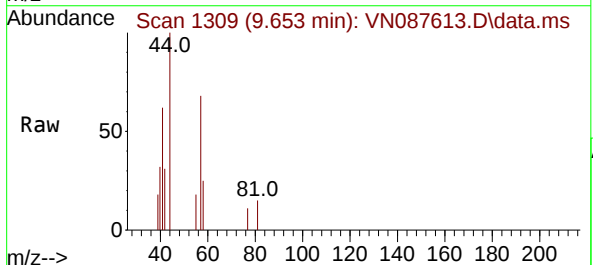
Instrument :  
MSVOA\_N  
ClientSampleId :  
002 35th Ave (JULY)

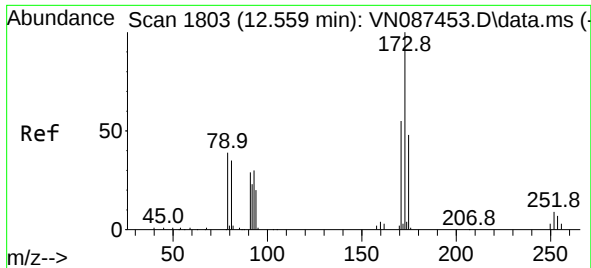
Tgt Ion: 83 Resp: 9316  
Ion Ratio Lower Upper  
83 100  
85 65.7 52.9 79.3  
127 8.0 5.8 8.6



#46  
Methyl methacrylate  
Concen: 0.286 ug/l  
RT: 9.653 min Scan# 1309  
Delta R.T. -0.012 min  
Lab File: VN087613.D  
Acq: 20 Aug 2025 13:25

Tgt Ion: 41 Resp: 1386  
Ion Ratio Lower Upper  
41 100  
69 0.0 37.1 111.5#  
39 0.5 30.7 92.1#

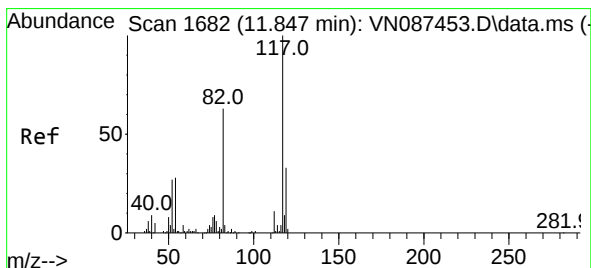
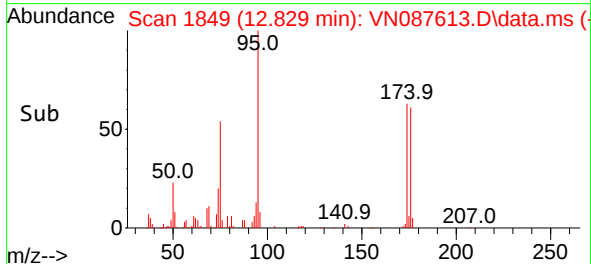
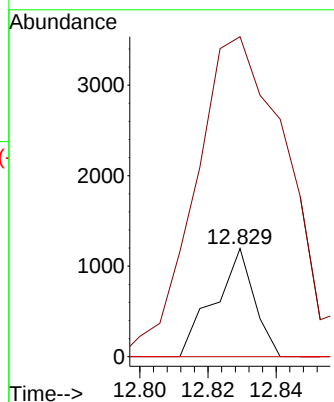
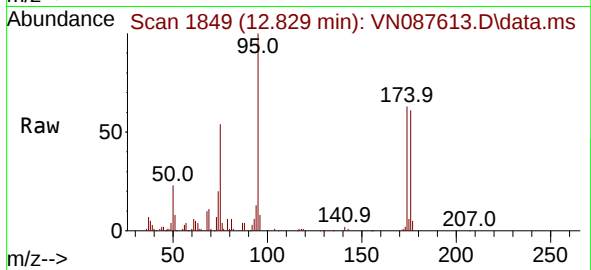




#56  
Bromoform  
Concen: 0.390 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.271 min  
Lab File: VN087613.D  
Acq: 20 Aug 2025 13:25

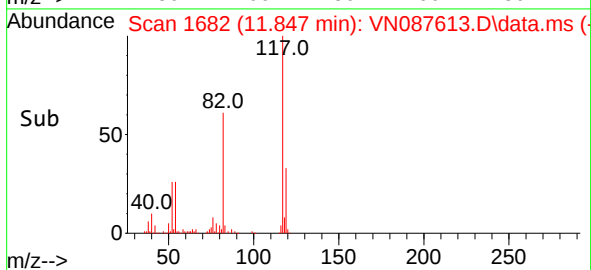
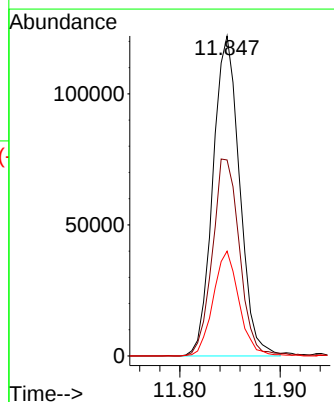
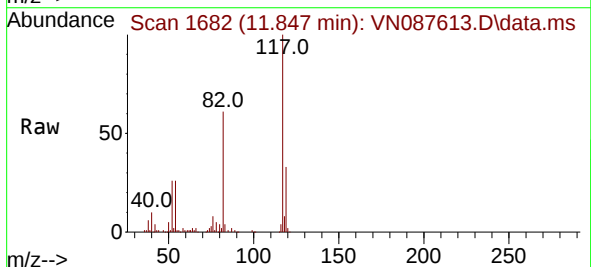
Instrument :  
MSVOA\_N  
ClientSampleId :  
002 35th Ave (JULY)

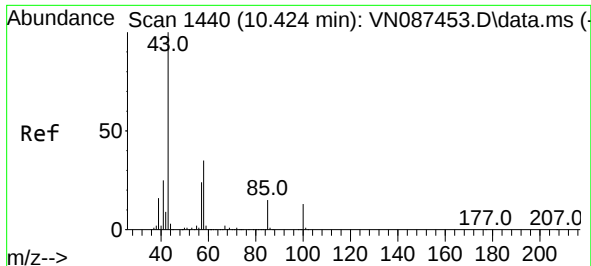
Tgt Ion:173 Resp: 971  
Ion Ratio Lower Upper  
173 100  
175 671.8 38.8 58.2#  
254 0.0 3.9 5.9#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.847 min Scan# 1682  
Delta R.T. 0.000 min  
Lab File: VN087613.D  
Acq: 20 Aug 2025 13:25

Tgt Ion:117 Resp: 225830  
Ion Ratio Lower Upper  
117 100  
82 62.6 49.2 73.8  
119 31.7 25.7 38.5

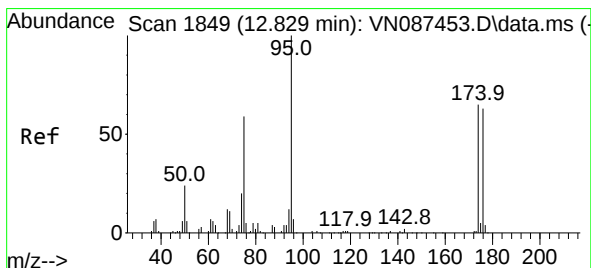
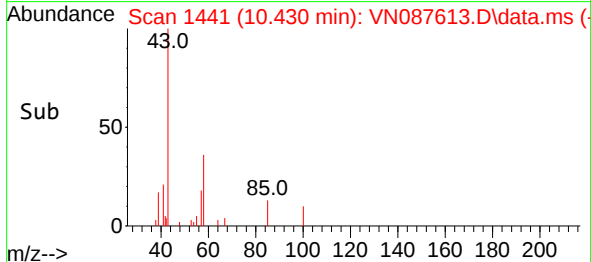
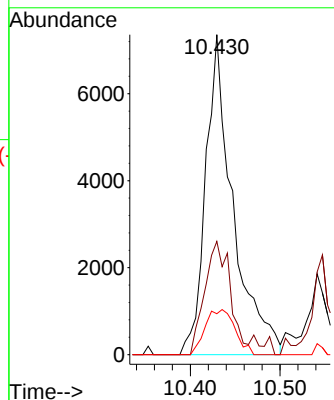
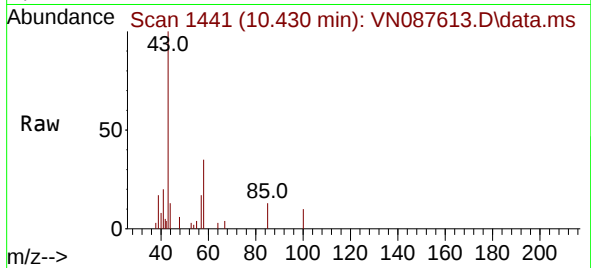




#58  
4-Methyl-2-Pentanone  
Concen: 2.681 ug/l  
RT: 10.430 min Scan# 1441  
Delta R.T. 0.006 min  
Lab File: VN087613.D  
Acq: 20 Aug 2025 13:25

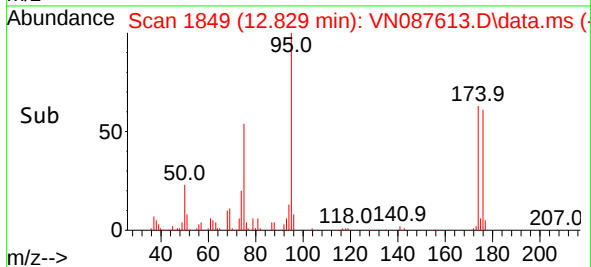
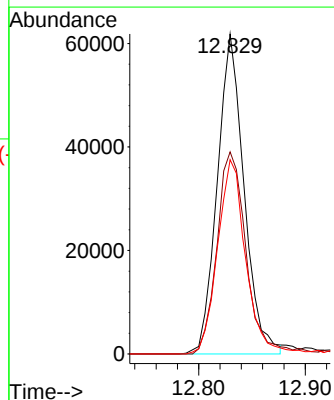
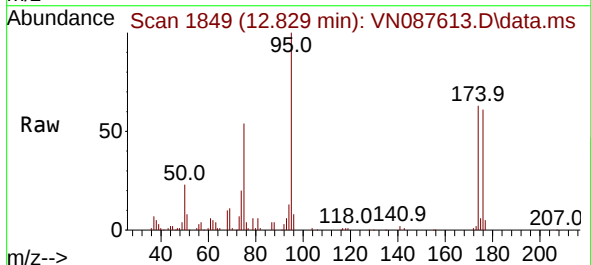
Instrument :  
MSVOA\_N  
ClientSampleId :  
002 35th Ave (JULY)

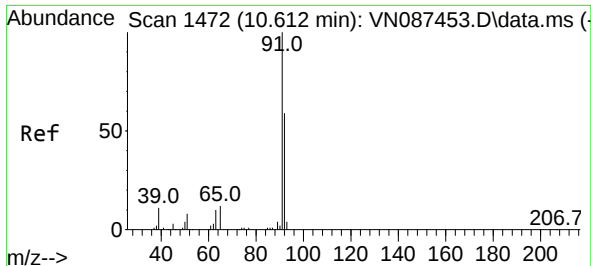
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 15574 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 33.2  | 29.0  | 43.6  |
| 85       | 15.3  | 12.7  | 19.1  |



#60  
4-Bromofluorobenzene  
Concen: 27.736 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.000 min  
Lab File: VN087613.D  
Acq: 20 Aug 2025 13:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 107793 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 68.3  | 52.3  | 78.5   |
| 176      | 63.9  | 49.8  | 74.8   |

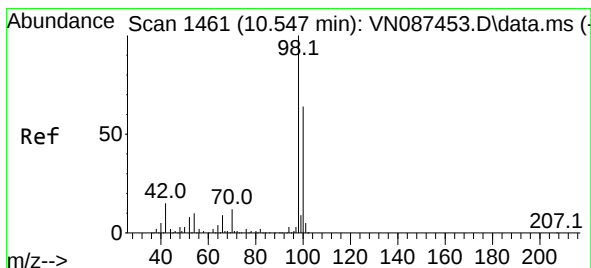
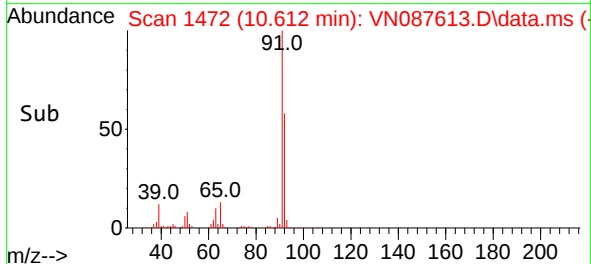
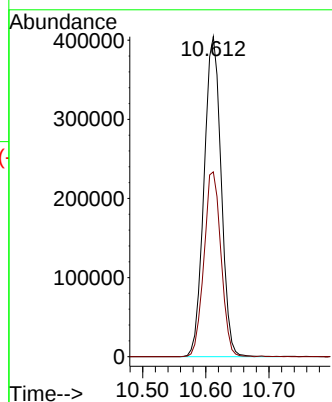
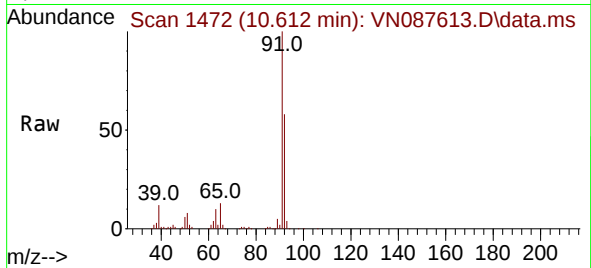




#62  
Toluene  
Concen: 54.499 ug/l  
RT: 10.612 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VN087613.D  
Acq: 20 Aug 2025 13:25

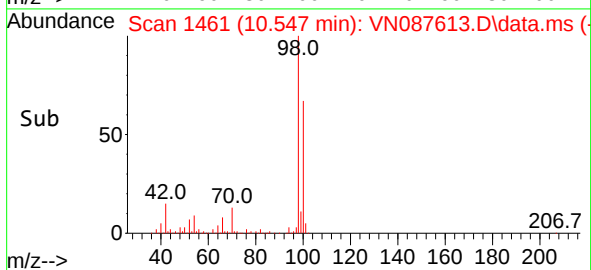
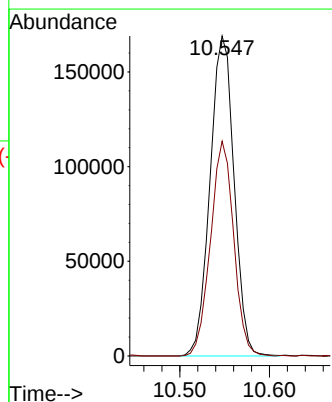
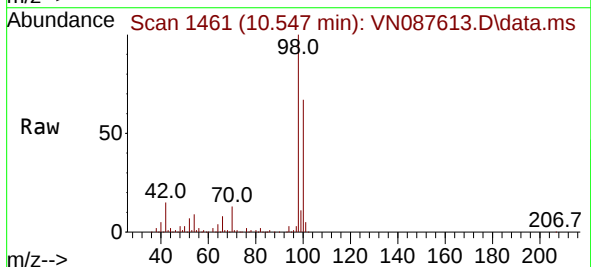
Instrument :  
MSVOA\_N  
ClientSampleId :  
002 35th Ave (JULY)

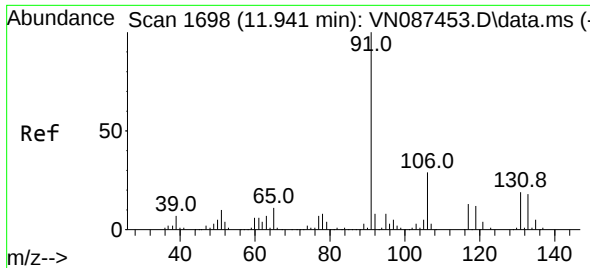
Tgt Ion: 91 Resp: 759622  
Ion Ratio Lower Upper  
91 100  
92 57.3 45.8 68.6



#63  
Toluene-d8  
Concen: 30.224 ug/l  
RT: 10.547 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: VN087613.D  
Acq: 20 Aug 2025 13:25

Tgt Ion: 98 Resp: 314059  
Ion Ratio Lower Upper  
98 100  
100 64.8 50.5 75.7

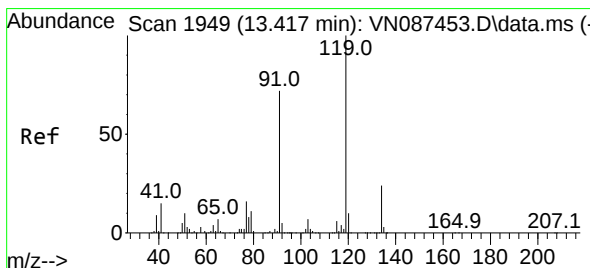
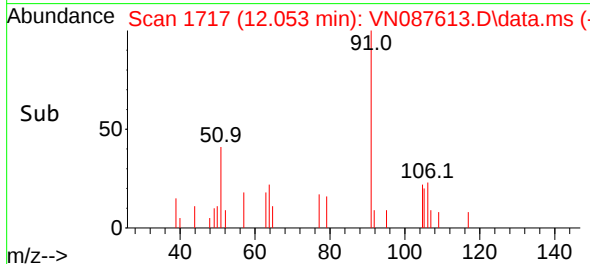
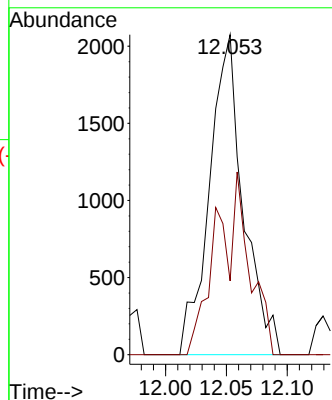
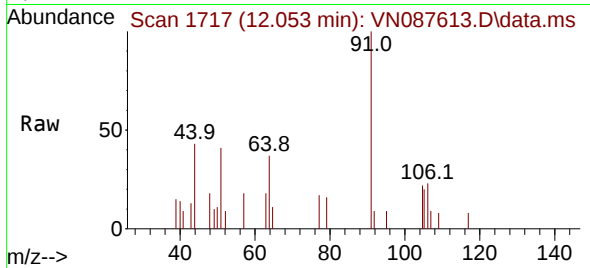




#66  
Ethyl Benzene  
Concen: 0.259 ug/l  
RT: 12.053 min Scan# 1717  
Delta R.T. 0.112 min  
Lab File: VN087613.D  
Acq: 20 Aug 2025 13:25

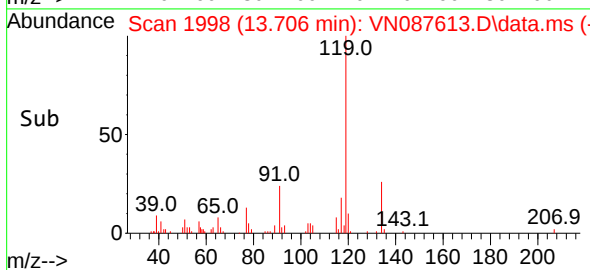
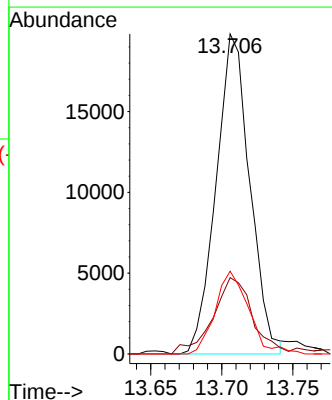
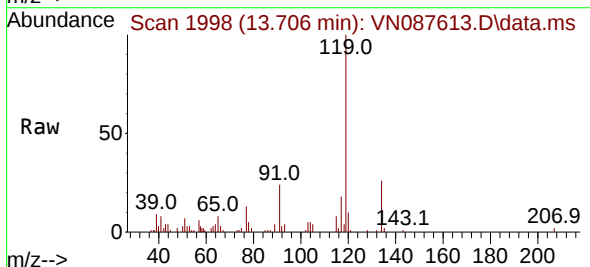
Instrument :  
MSVOA\_N  
ClientSampleId :  
002 35th Ave (JULY)

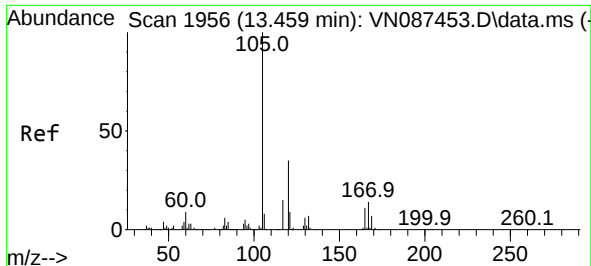
Tgt Ion: 91 Resp: 4031  
Ion Ratio Lower Upper  
91 100  
106 23.0 22.9 34.3



#79  
tert-butylbenzene  
Concen: 3.176 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. 0.288 min  
Lab File: VN087613.D  
Acq: 20 Aug 2025 13:25

Tgt Ion: 119 Resp: 32681  
Ion Ratio Lower Upper  
119 100  
91 26.7 0.0 141.6  
134 24.9 0.0 45.6

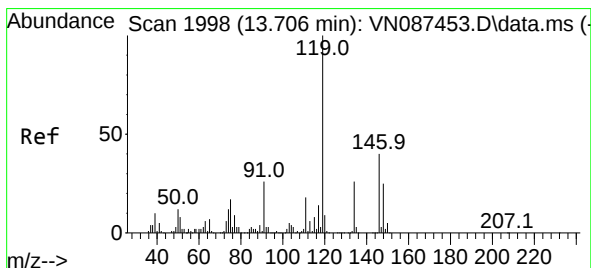
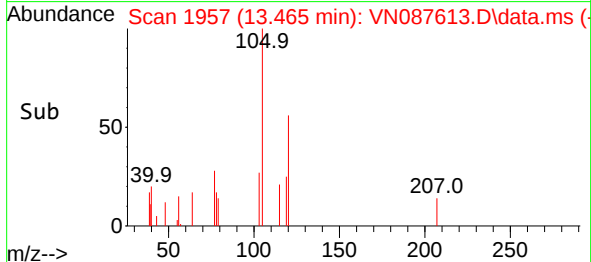
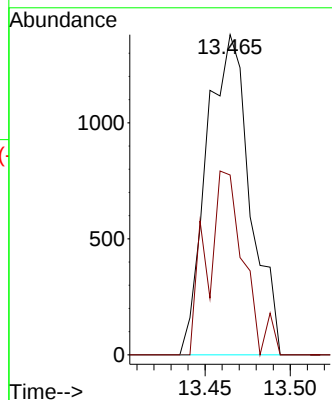
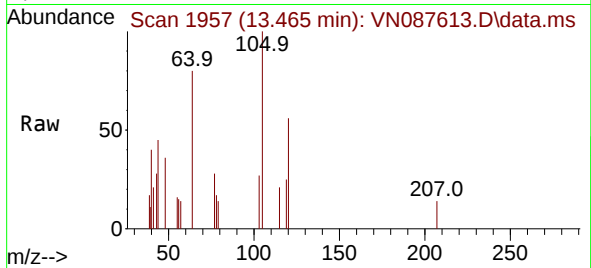




#80  
 1,2,4-Trimethylbenzene  
 Concen: 0.201 ug/l  
 RT: 13.465 min Scan# 1957  
 Delta R.T. 0.006 min  
 Lab File: VN087613.D  
 Acq: 20 Aug 2025 13:25

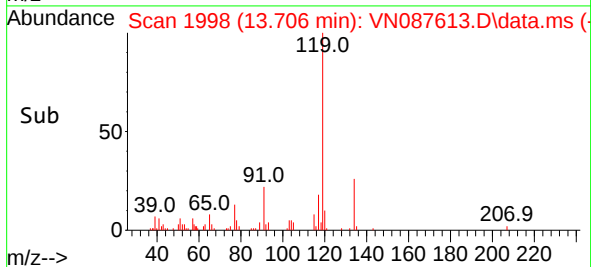
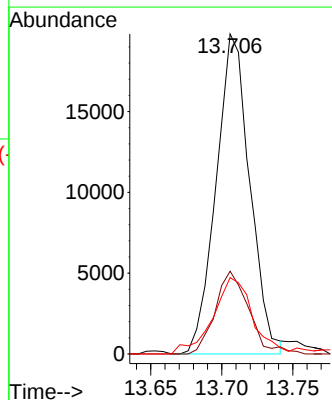
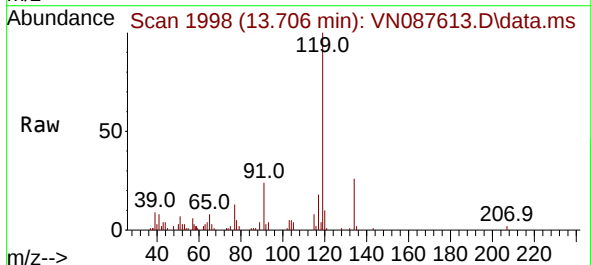
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 002 35th Ave (JULY)

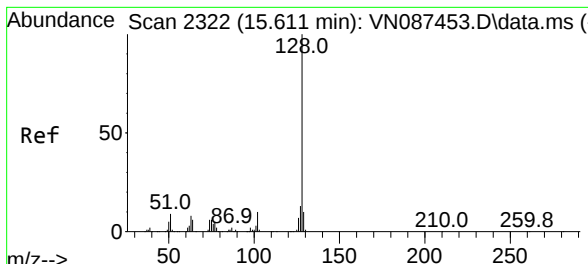
Tgt Ion:105 Resp: 2449  
 Ion Ratio Lower Upper  
 105 100  
 120 45.7 0.0 87.2



#82  
 p-Isopropyltoluene  
 Concen: 2.628 ug/l  
 RT: 13.706 min Scan# 1998  
 Delta R.T. 0.000 min  
 Lab File: VN087613.D  
 Acq: 20 Aug 2025 13:25

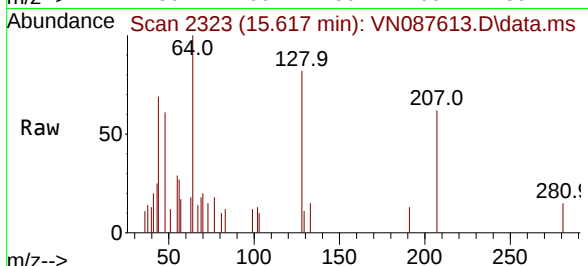
Tgt Ion:119 Resp: 32681  
 Ion Ratio Lower Upper  
 119 100  
 134 24.9 0.0 51.4  
 91 26.7 0.0 52.0





#91  
 Naphthalene  
 Concen: 0.222 ug/l  
 RT: 15.617 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VN087613.D  
 Acq: 20 Aug 2025 13:25

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 002 35th Ave (JULY)



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 3041  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 5.7   | 10.2  | 15.4# |
| 129       | 2.2   | 8.9   | 13.3# |

