

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101019\  
 Data File : VN058652.D  
 Acq On : 9 Oct 2019 19:54  
 Operator : JC/SP  
 Sample : K5152-05  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SU-02-100719

Quant Time: Oct 10 05:18:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N092719W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 30 08:07:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 451225   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 714099   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 639651   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 271553   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 316084   | 47.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.88%  |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 231655   | 52.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.86% |          |
| 50) Toluene-d8              | 10.08 | 98   | 917387   | 53.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.02% |          |
| 62) 4-Bromofluorobenzene    | 12.41 | 95   | 306624   | 49.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.92%  |          |

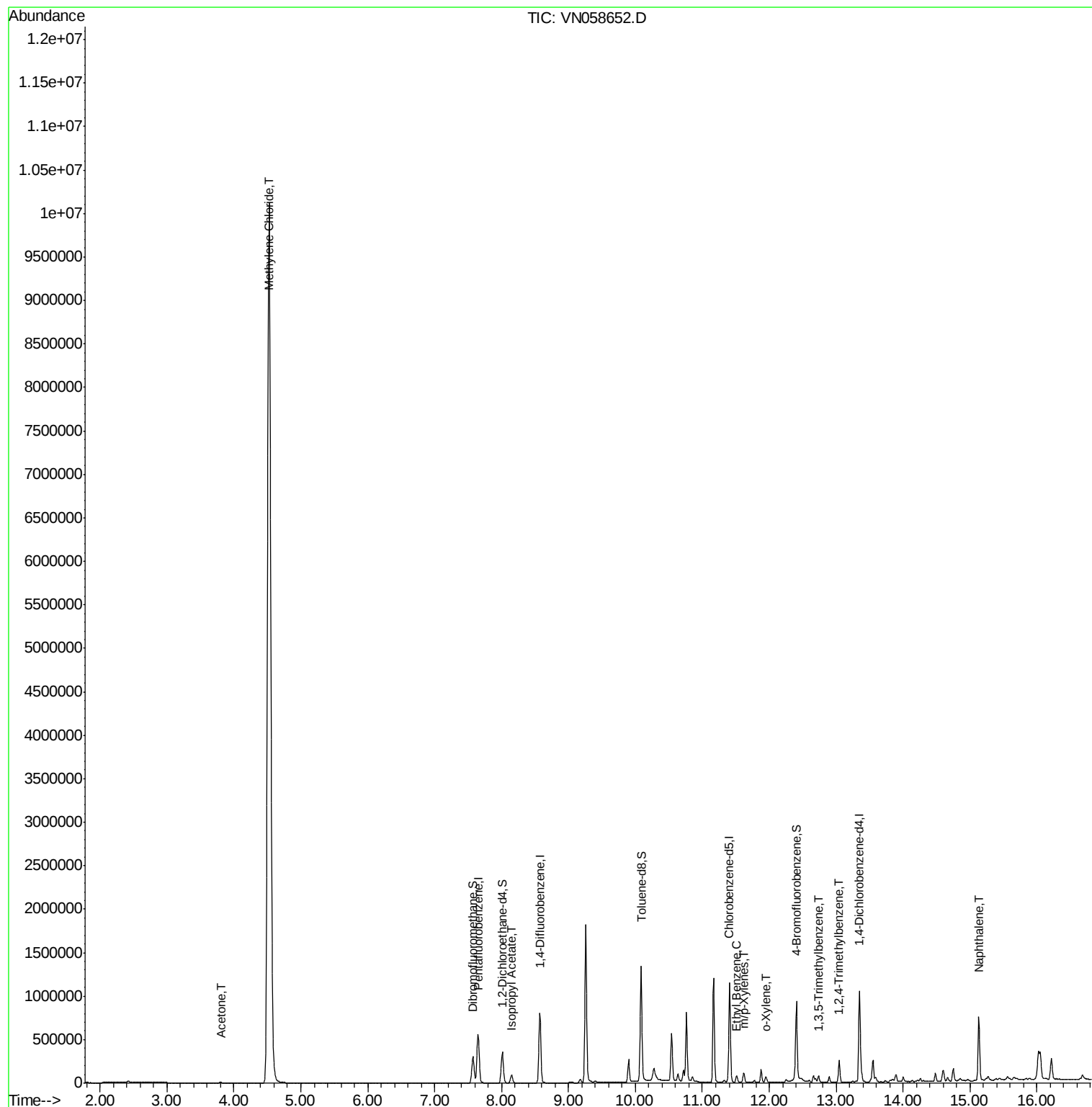
| Target Compounds           | R.T.  | QIon | Response | Conc     | Units  | Qvalue |
|----------------------------|-------|------|----------|----------|--------|--------|
| 16) Acetone                | 3.80  | 43   | 13920    | 6.193    | ug/l   | 94     |
| 20) Methylene Chloride     | 4.53  | 84   | 8021064  | 1546.279 | ug/l # | 80     |
| 43) Isopropyl Acetate      | 8.15  | 43   | 108218   | 9.941    | ug/l   | 99     |
| 67) Ethyl Benzene          | 11.51 | 91   | 57355    | 2.490    | ug/l   | 95     |
| 68) m/p-Xylenes            | 11.62 | 106  | 35306    | 4.075    | ug/l   | 100    |
| 69) o-Xylene               | 11.95 | 106  | 18079    | 2.167    | ug/l   | 93     |
| 80) 1,3,5-Trimethylbenzene | 12.74 | 105  | 38352    | 2.283    | ug/l   | 100    |
| 84) 1,2,4-Trimethylbenzene | 13.05 | 105  | 146758   | 8.719    | ug/l   | 99     |
| 95) Naphthalene            | 15.13 | 128  | 575705   | 43.389   | ug/l   | 99     |

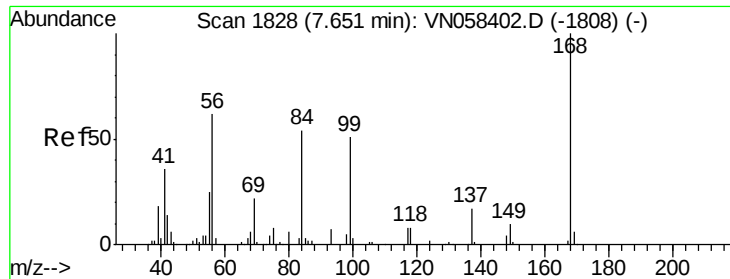
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Mon Sep 30 08:07:38 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058652.D

Acq: 9 Oct 2019 19:54

Instrument :

MSVOA\_N

ClientSampleId :

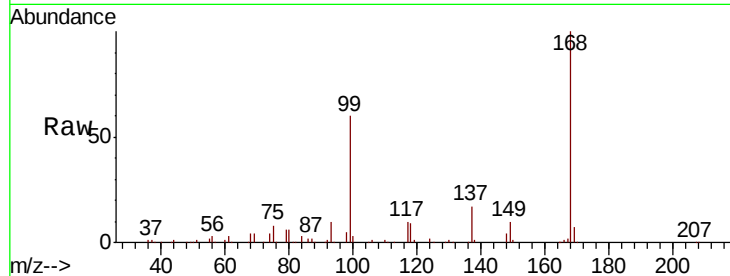
SU-02-100719

Tot Ion:168 Resp: 451225

Ion Ratio Lower Upper

168 100

99 60.0 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

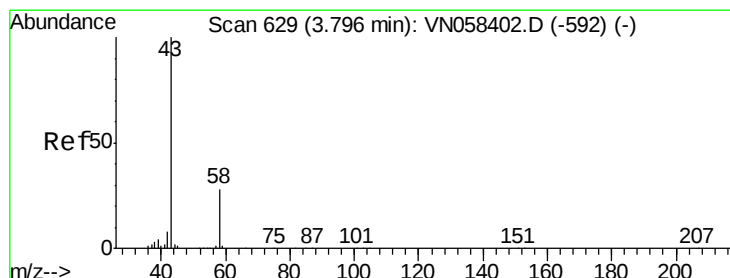
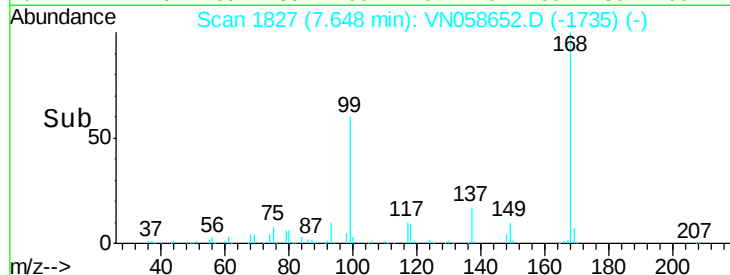
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 6.193 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058652.D

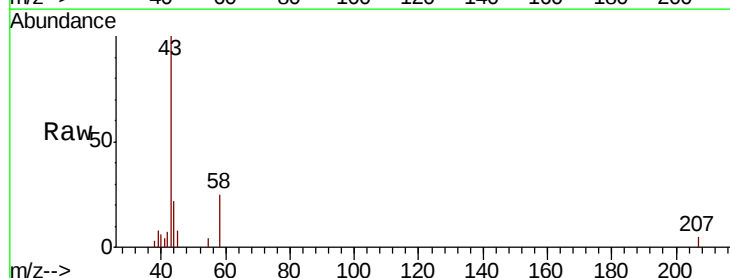
Acq: 9 Oct 2019 19:54

Tgt Ion: 43 Resp: 13920

Ion Ratio Lower Upper

43 100

58 24.8 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.80

5000

4000

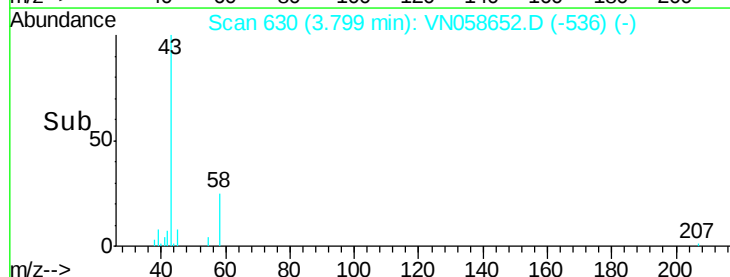
3000

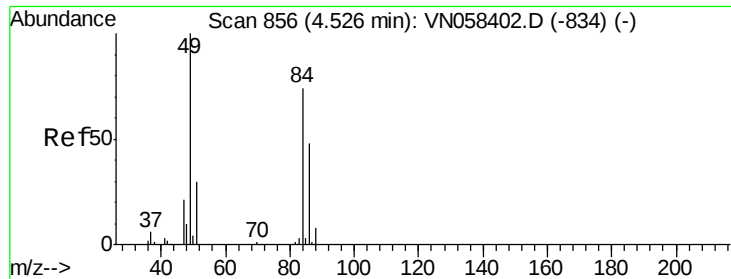
2000

1000

0

Time-->



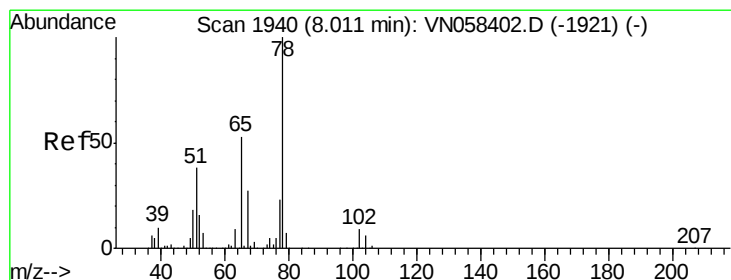
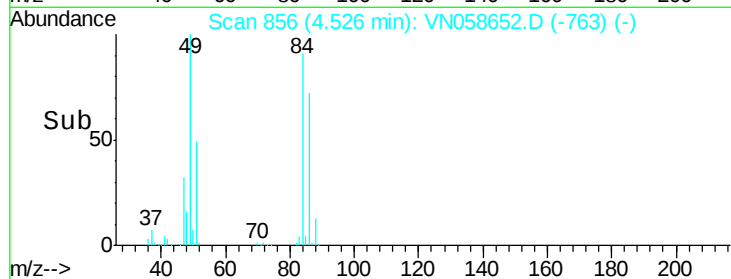
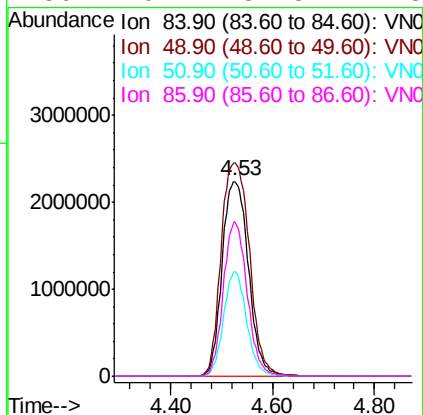
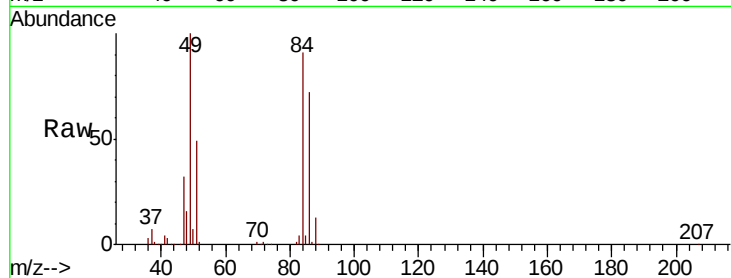


#20  
Methylene Chloride  
Concen: 1546.279 ug/l  
RT: 4.53 min Scan# 856  
Delta R.T. -0.00 min  
Lab File: VN058652.D  
Acq: 9 Oct 2019 19:54

Instrument :  
MSVOA\_N  
ClientSampleId :  
SU-02-100719

Tot Ion: 84 Resp: 8021064

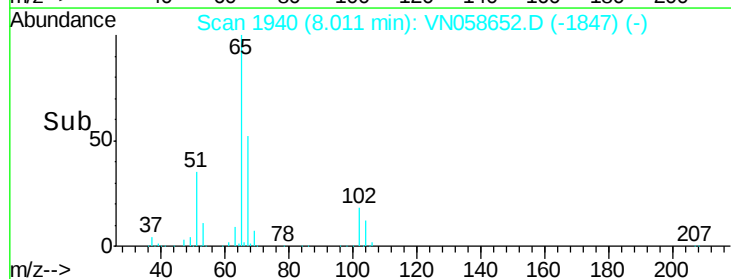
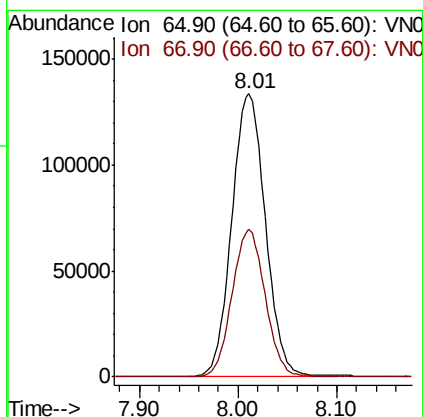
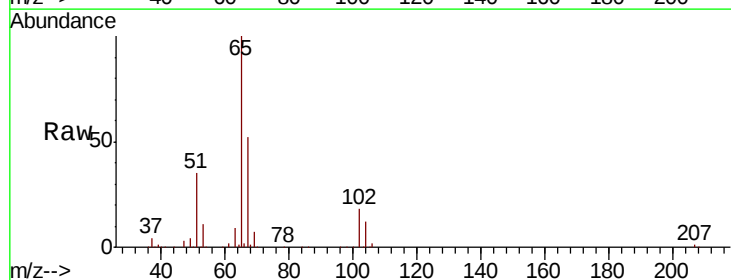
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 109.6 | 107.9 | 161.9 |
| 51  | 53.7  | 32.8  | 49.2# |
| 86  | 79.2  | 51.5  | 77.3# |

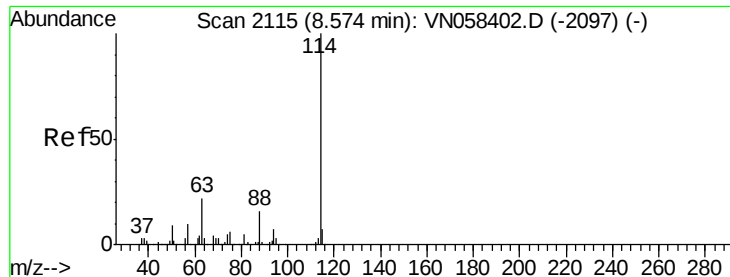


#33  
1,2-Dichloroethane-d4  
Concen: 47.936 ug/l  
RT: 8.01 min Scan# 1940  
Delta R.T. -0.00 min  
Lab File: VN058652.D  
Acq: 9 Oct 2019 19:54

Tgt Ion: 65 Resp: 316084

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 51.3  | 0.0   | 102.4 |

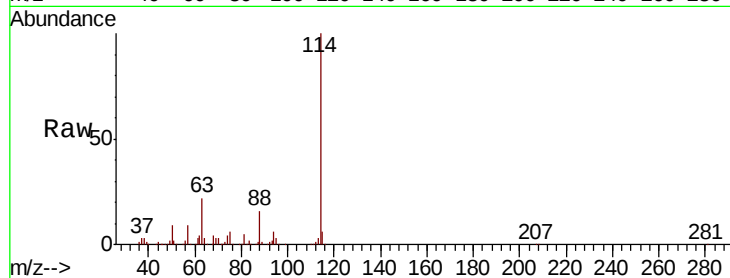




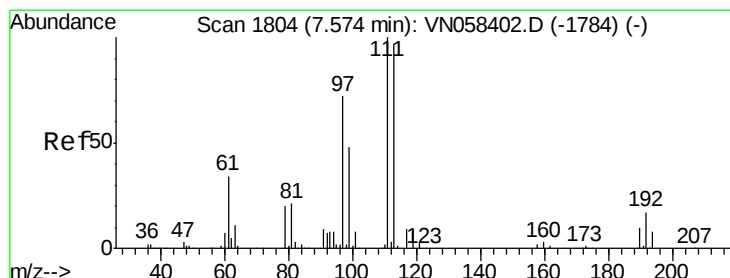
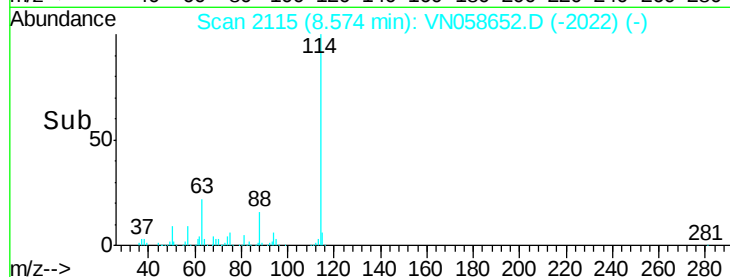
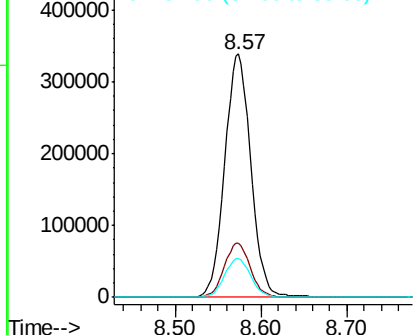
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. -0.00 min  
 Lab File: VN058652.D  
 Acq: 9 Oct 2019 19:54

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SU-02-100719

Tot Ion:114 Resp: 714099  
 Ion Ratio Lower Upper  
 114 100  
 63 22.3 0.0 45.0  
 88 15.8 0.0 32.2

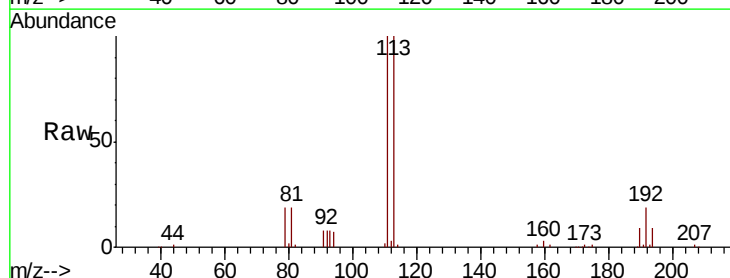


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

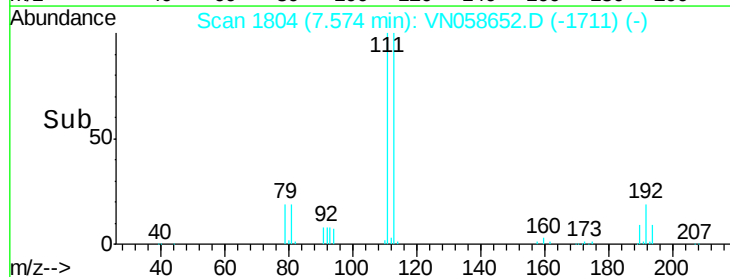
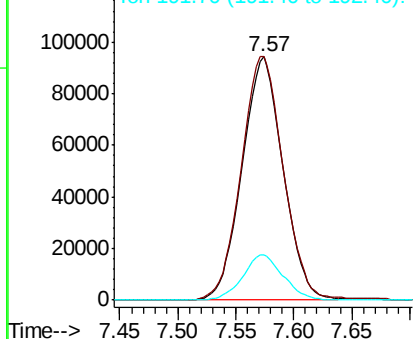


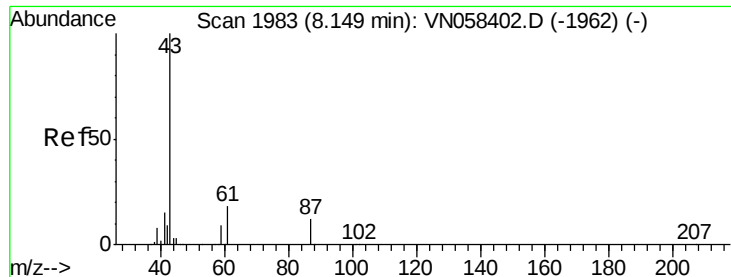
#35  
 Dibromofluoromethane  
 Concen: 52.930 ug/l  
 RT: 7.57 min Scan# 1804  
 Delta R.T. -0.00 min  
 Lab File: VN058652.D  
 Acq: 9 Oct 2019 19:54

Tgt Ion:113 Resp: 231655  
 Ion Ratio Lower Upper  
 113 100  
 111 103.5 83.4 125.2  
 192 18.4 14.9 22.3



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

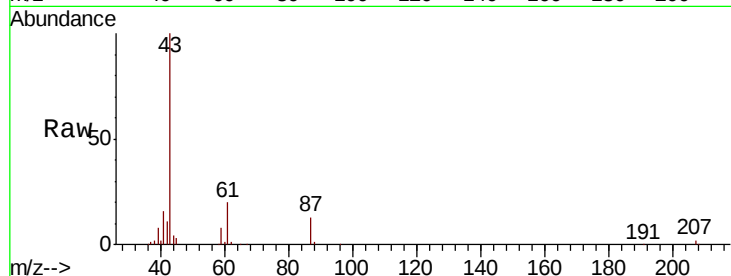




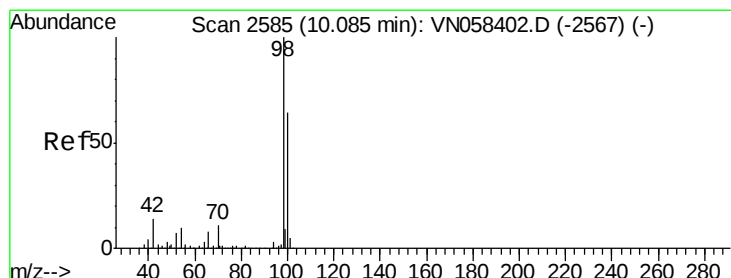
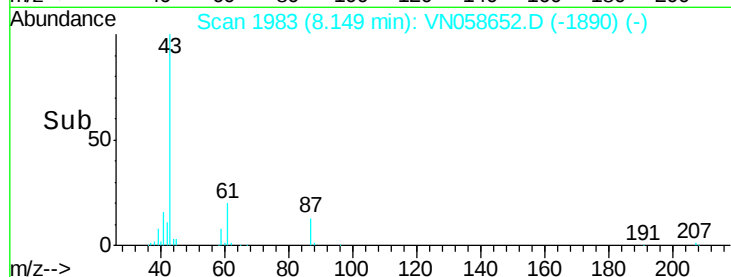
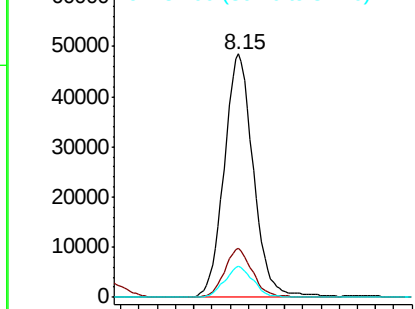
#43  
Isopropyl Acetate  
Concen: 9.941 ug/l  
RT: 8.15 min Scan# 1983  
Delta R.T. -0.00 min  
Lab File: VN058652.D  
Acq: 9 Oct 2019 19:54

Instrument :  
MSVOA\_N  
ClientSampleId :  
SU-02-100719

Tot Ion: 43 Resp: 108218  
Ion Ratio Lower Upper  
43 100  
61 18.9 14.8 22.2  
87 12.2 9.7 14.5

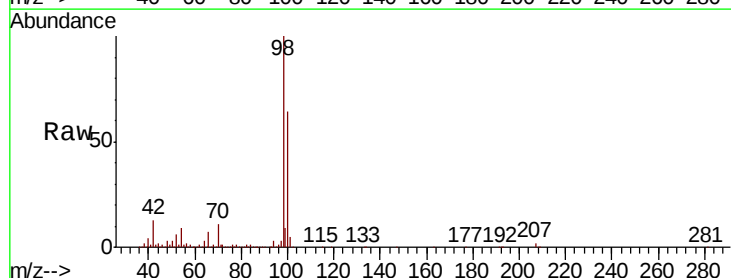


Abundance Ion 43.00 (42.70 to 43.70): VN0  
Ion 61.00 (60.70 to 61.70): VN0  
Ion 87.00 (86.70 to 87.70): VN0

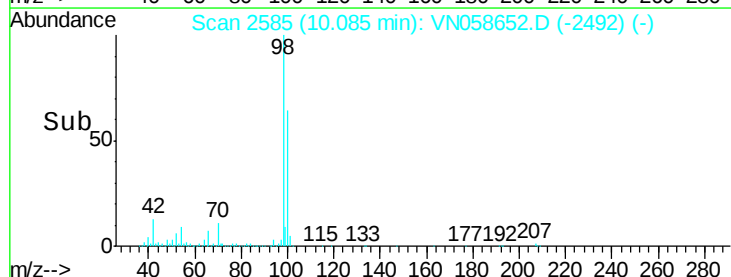
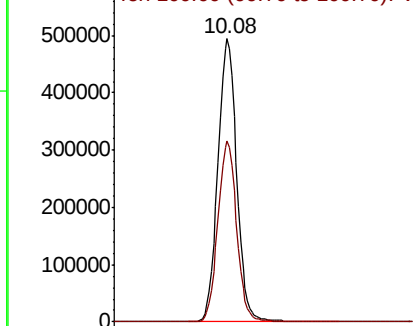


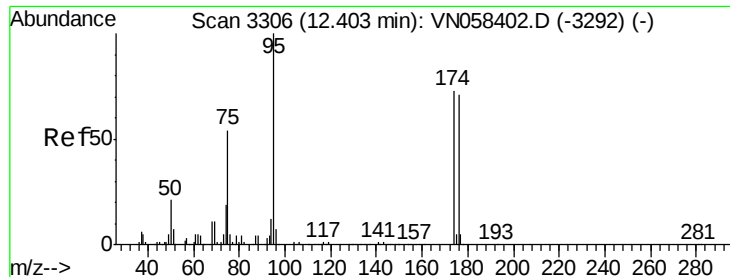
#50  
Toluene-d8  
Concen: 53.507 ug/l  
RT: 10.08 min Scan# 2585  
Delta R.T. -0.00 min  
Lab File: VN058652.D  
Acq: 9 Oct 2019 19:54

Tgt Ion: 98 Resp: 917387  
Ion Ratio Lower Upper  
98 100  
100 63.9 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0  
Ion 100.00 (99.70 to 100.70): VN0

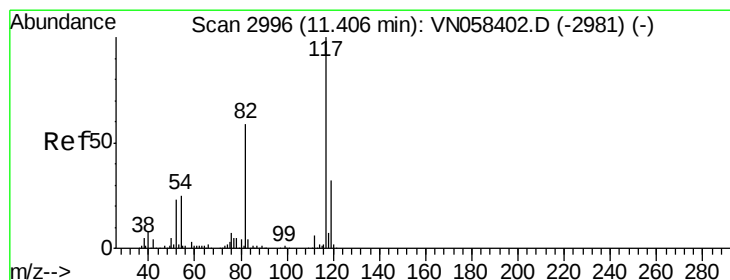
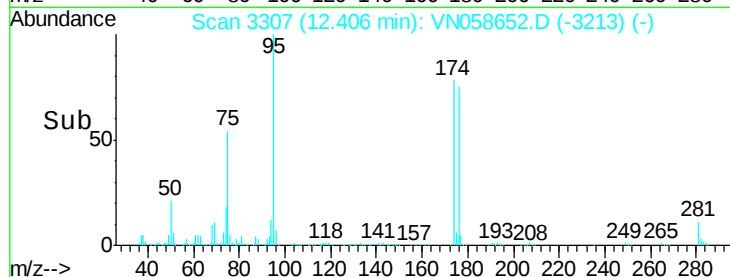
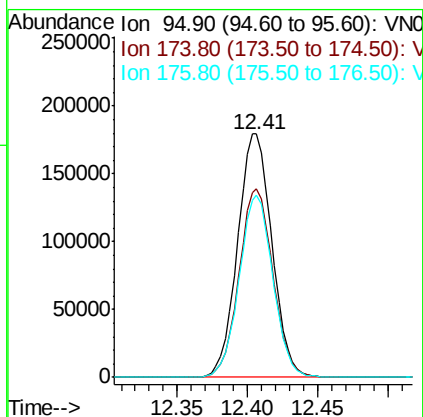
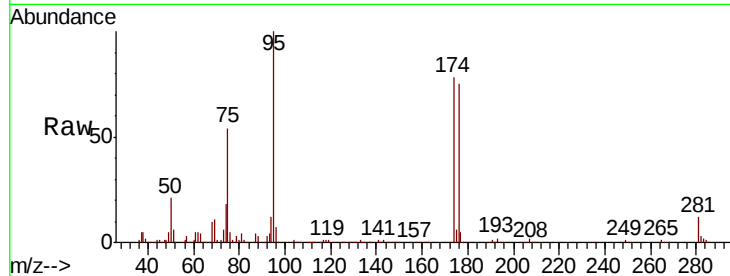




#62  
4-Bromofluorobenzene  
Concen: 49.461 ug/l  
RT: 12.41 min Scan# 3307  
Delta R.T. 0.00 min  
Lab File: VN058652.D  
Acq: 9 Oct 2019 19:54

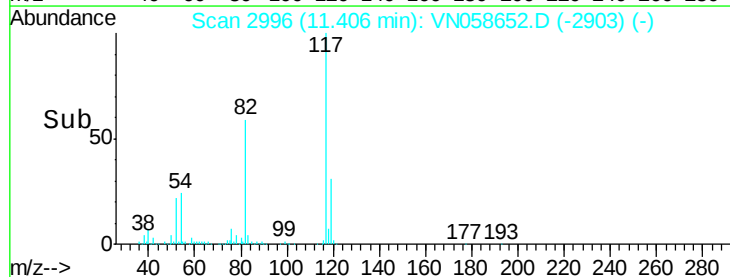
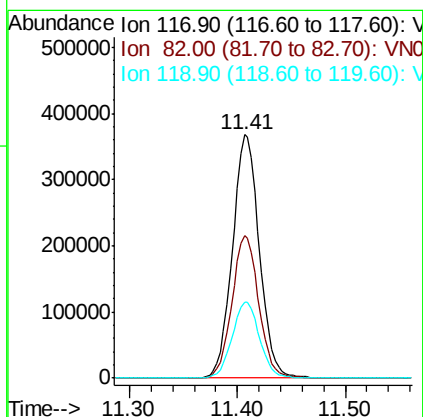
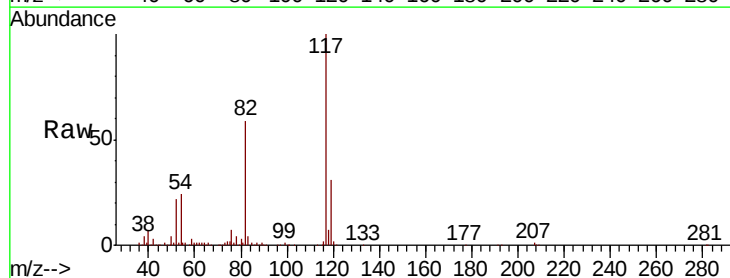
Instrument :  
MSVOA\_N  
ClientSampleId :  
SU-02-100719

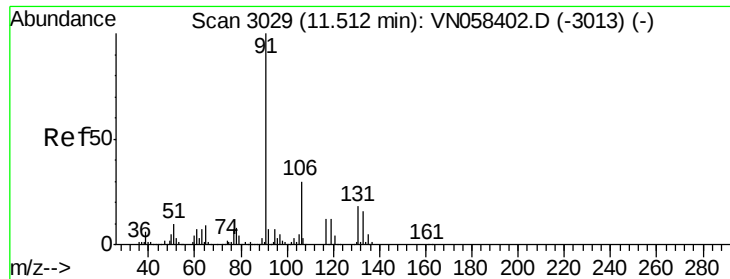
Tot Ion: 95 Resp: 306624  
Ion Ratio Lower Upper  
95 100  
174 76.6 0.0 150.6  
176 73.7 0.0 146.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN058652.D  
Acq: 9 Oct 2019 19:54

Tgt Ion: 117 Resp: 639651  
Ion Ratio Lower Upper  
117 100  
82 58.7 47.4 71.0  
119 31.3 25.5 38.3

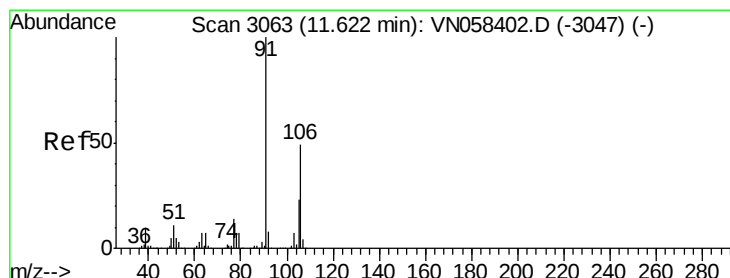
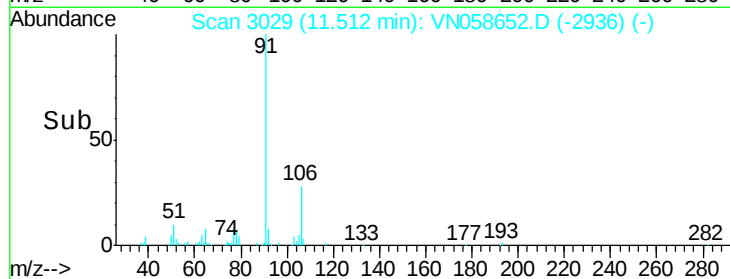
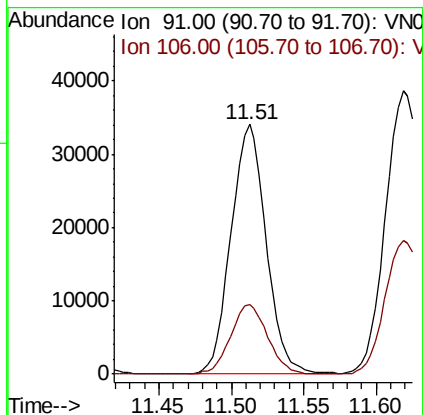
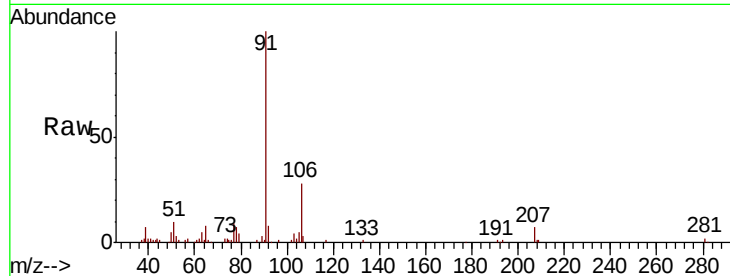




#67  
Ethyl Benzene  
Concen: 2.490 ug/l  
RT: 11.51 min Scan# 3029  
Delta R.T. -0.00 min  
Lab File: VN058652.D  
Acq: 9 Oct 2019 19:54

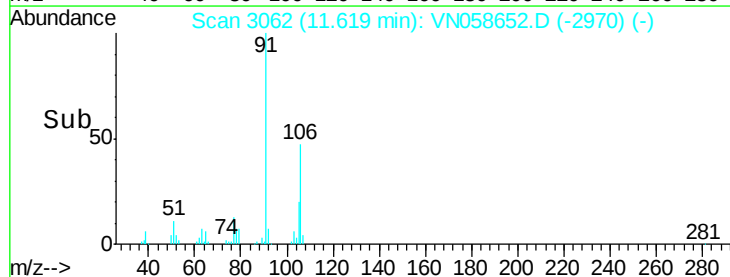
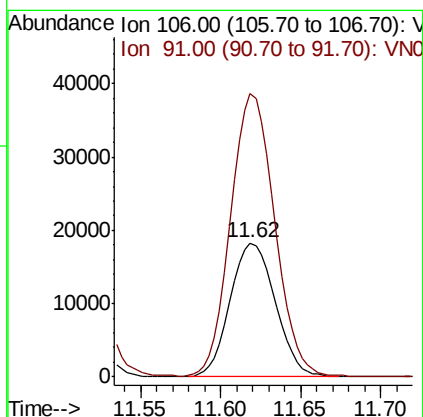
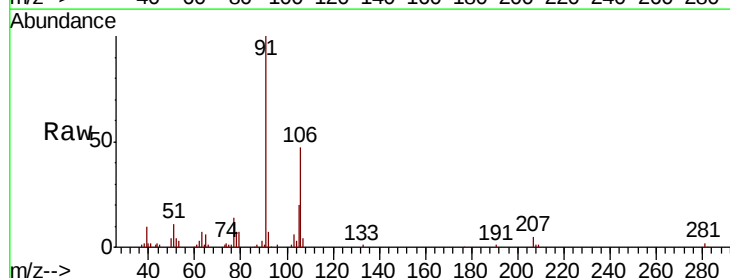
Instrument :  
MSVOA\_N  
ClientSampled :  
SU-02-100719

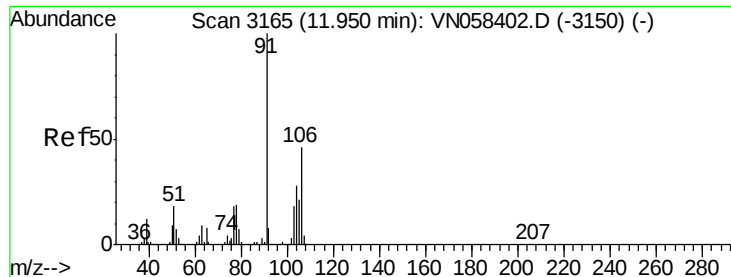
Tot Ion: 91 Resp: 57355  
Ion Ratio Lower Upper  
91 100  
106 27.7 24.3 36.5



#68  
m/p-Xylenes  
Concen: 4.075 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN058652.D  
Acq: 9 Oct 2019 19:54

Tgt Ion: 106 Resp: 35306  
Ion Ratio Lower Upper  
106 100  
91 206.1 165.0 247.4

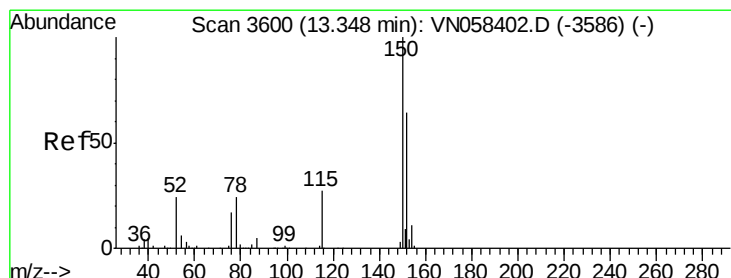
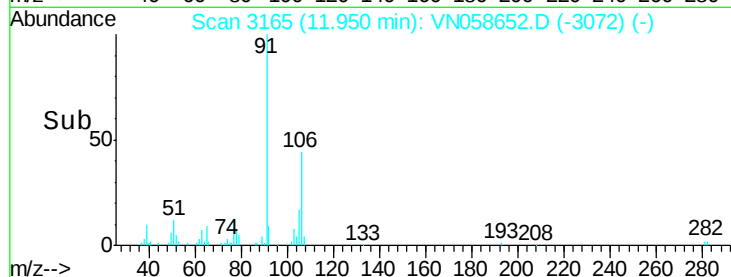
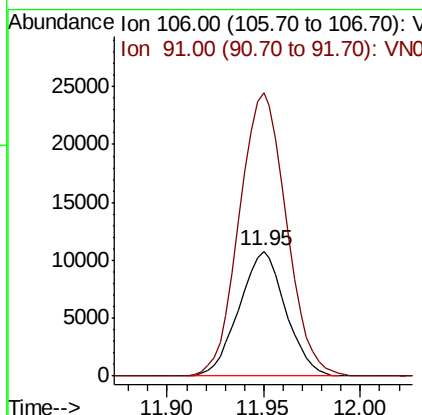
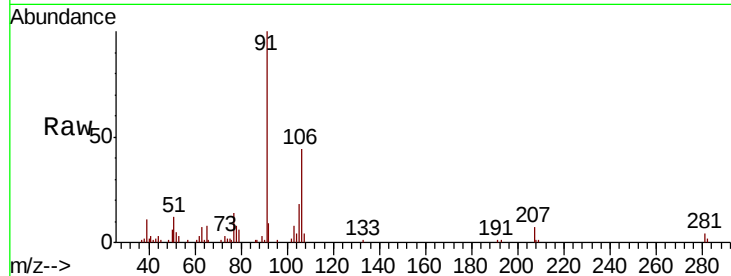




#69  
o-Xylene  
Concen: 2.167 ug/l  
RT: 11.95 min Scan# 3165  
Delta R.T. -0.00 min  
Lab File: VN058652.D  
Acq: 9 Oct 2019 19:54

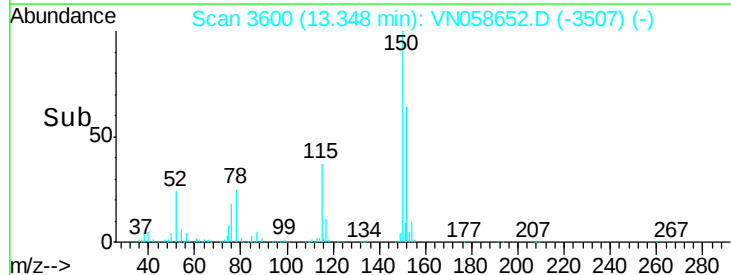
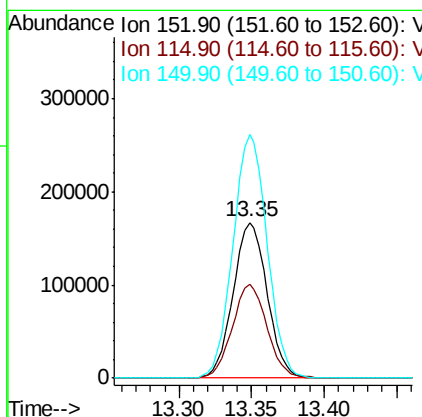
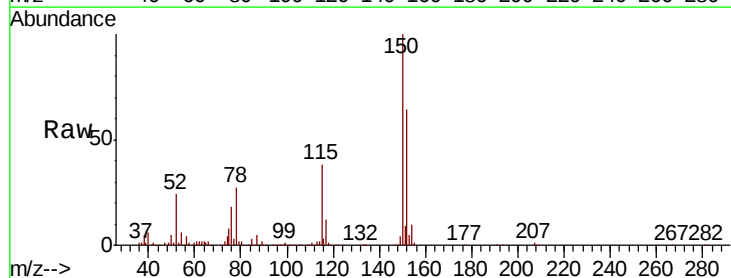
Instrument :  
MSVOA\_N  
ClientSampled :  
SU-02-100719

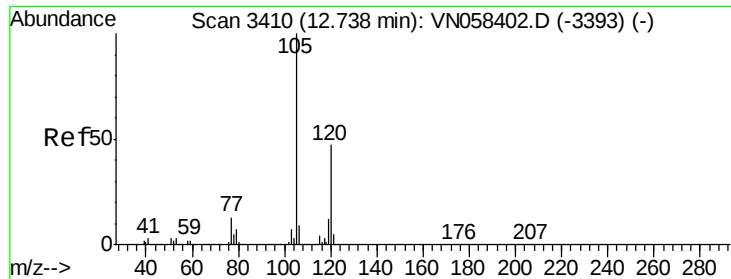
Tot Ion:106 Resp: 18079  
Ion Ratio Lower Upper  
106 100  
91 229.6 109.1 327.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3600  
Delta R.T. -0.00 min  
Lab File: VN058652.D  
Acq: 9 Oct 2019 19:54

Tgt Ion:152 Resp: 271553  
Ion Ratio Lower Upper  
152 100  
115 60.7 30.0 90.0  
150 157.7 0.0 348.2





#80

1,3,5-Trimethylbenzene

Concen: 2.283 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058652.D

Acq: 9 Oct 2019 19:54

Instrument :

MSVOA\_N

ClientSampled :

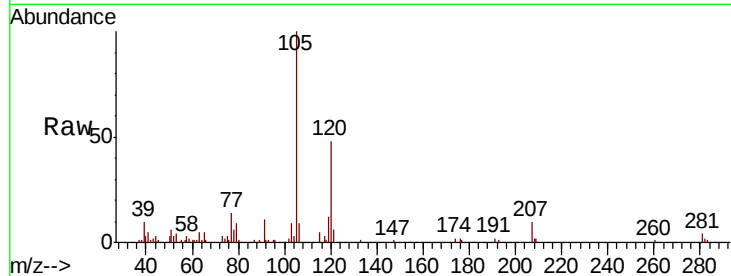
SU-02-100719

Tot Ion:105 Resp: 38352

Ion Ratio Lower Upper

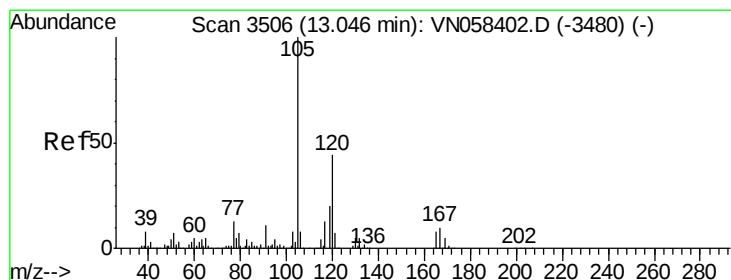
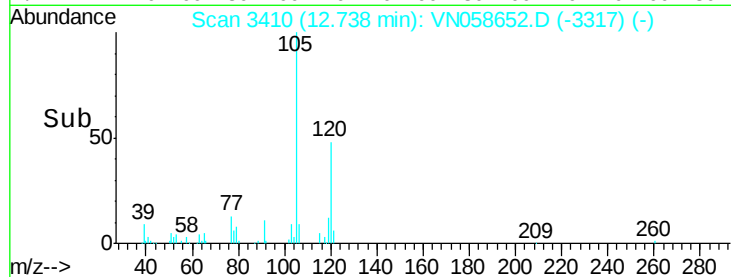
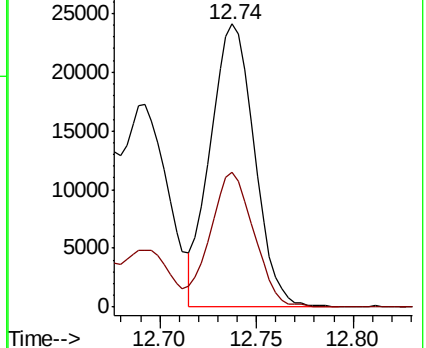
105 100

120 47.4 23.5 70.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 8.719 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. -0.00 min

Lab File: VN058652.D

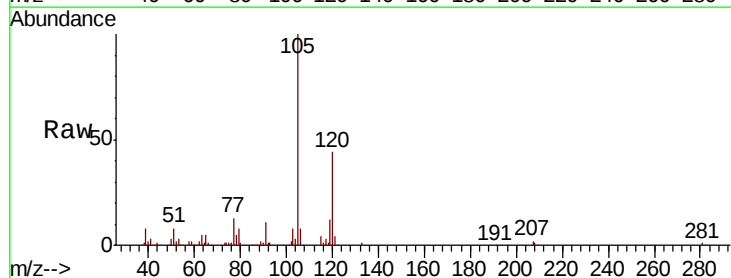
Acq: 9 Oct 2019 19:54

Tgt Ion:105 Resp: 146758

Ion Ratio Lower Upper

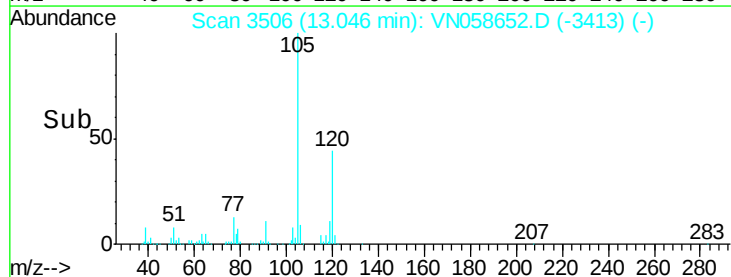
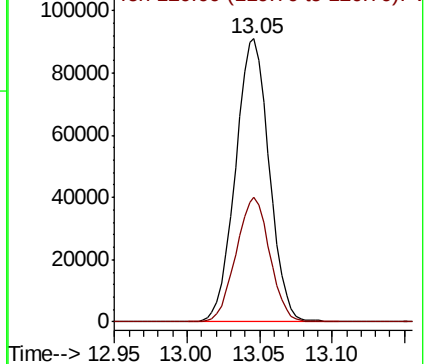
105 100

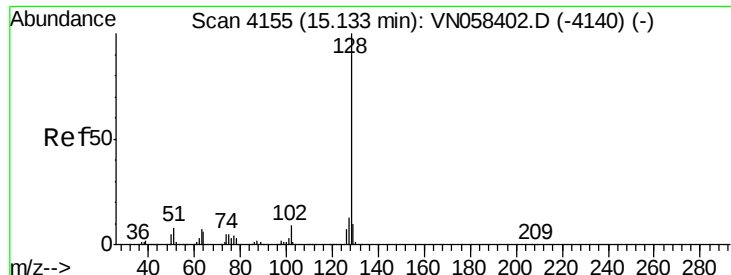
120 43.8 21.7 65.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

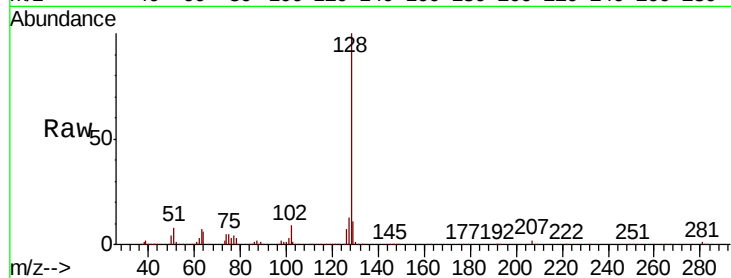




#95  
Naphthalene  
Concen: 43.389 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. 0.00 min  
Lab File: VN058652.D  
Acq: 9 Oct 2019 19:54

Instrument :  
MSVOA\_N  
ClientSampleId :  
SU-02-100719

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.0  | 10.2  | 15.4  |
| 129     | 11.0  | 8.3   | 12.5  |



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

