

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111519\  
 Data File : VN059270.D  
 Acq On : 15 Nov 2019 16:47  
 Operator : JC/SP  
 Sample : K5860-05  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 20983-32007

Quant Time: Nov 16 02:10:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 07 04:00:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 465275   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 709002   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 637113   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 286262   | 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   | 277221   | 48.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.94%  |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 220674   | 52.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.26% |          |
| 50) Toluene-d8              | 10.08 | 98   | 890639   | 53.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.82% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 315745   | 52.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.04% |          |

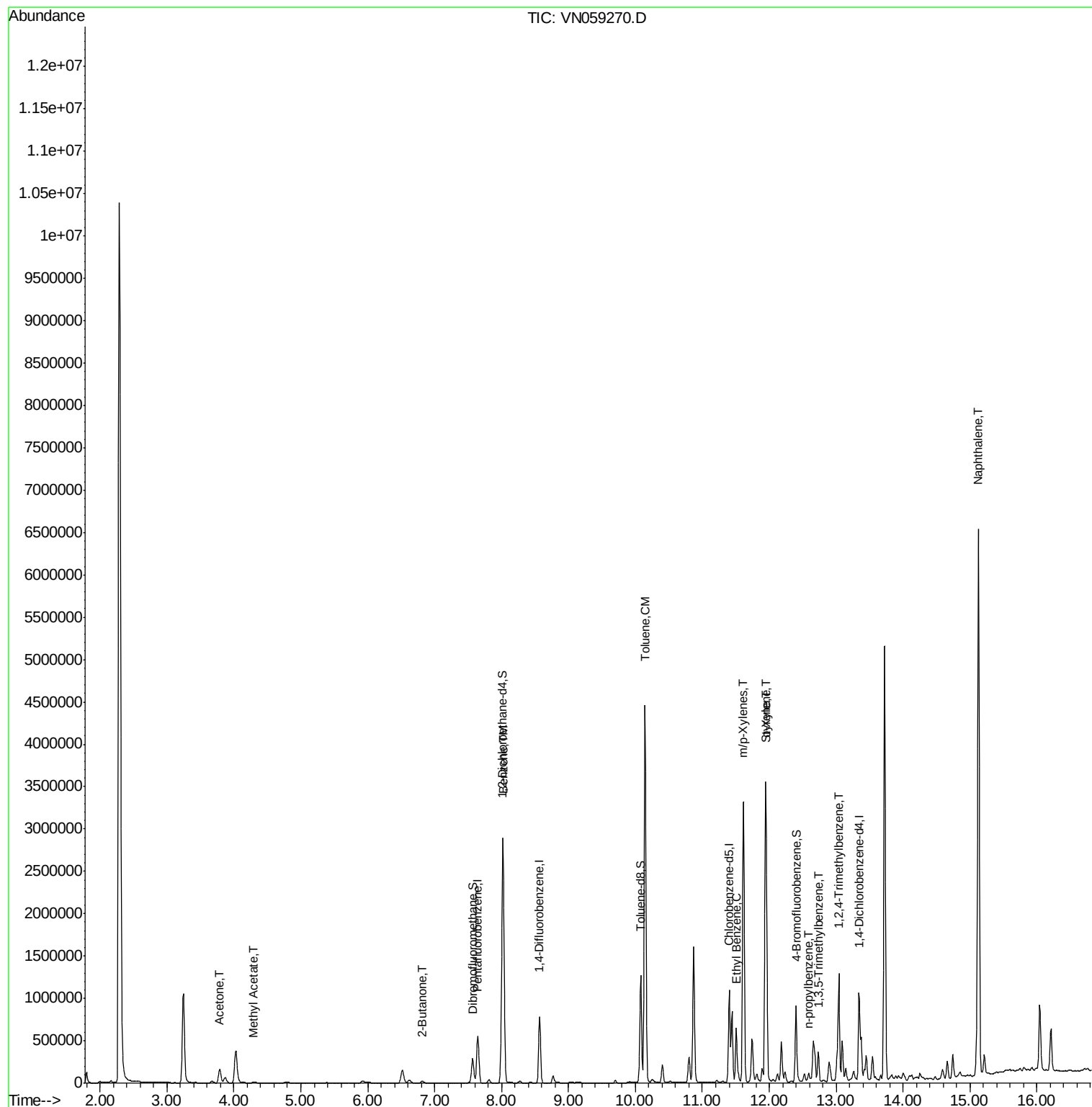
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                | 3.79  | 43   | 274515   | 92.298  | ug/l   | 97     |
| 18) Methyl Acetate         | 4.30  | 43   | 20798    | 2.946   | ug/l   | 98     |
| 25) 2-Butanone             | 6.81  | 43   | 33831    | 8.631   | ug/l   | 97     |
| 40) Benzene                | 8.02  | 78   | 2929896  | 146.814 | ug/l   | 99     |
| 52) Toluene                | 10.14 | 92   | 2100451  | 175.603 | ug/l   | 92     |
| 67) Ethyl Benzene          | 11.51 | 91   | 475733   | 21.589  | ug/l   | 99     |
| 68) m/p-Xylenes            | 11.61 | 106  | 1063776  | 128.876 | ug/l   | 99     |
| 69) o-Xylene               | 11.94 | 106  | 868950   | 108.933 | ug/l   | 97     |
| 70) Styrene                | 11.96 | 104  | 672238   | 53.584  | ug/l   | 90     |
| 78) n-propylbenzene        | 12.59 | 91   | 66315    | 2.781   | ug/l   | 98     |
| 80) 1,3,5-Trimethylbenzene | 12.73 | 105  | 200548   | 11.366  | ug/l   | 99     |
| 84) 1,2,4-Trimethylbenzene | 13.04 | 105  | 715755   | 41.929  | ug/l   | 99     |
| 95) Naphthalene            | 15.13 | 128  | 4949845  | 316.405 | ug/l # | 91     |

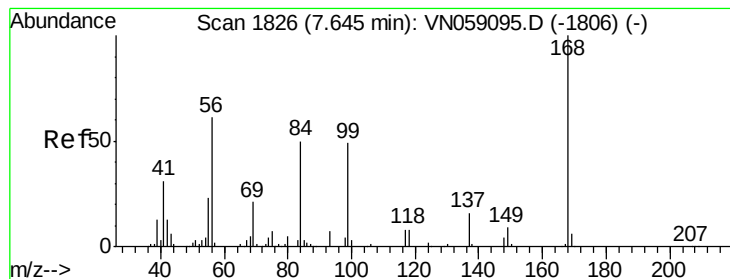
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Nov 07 04:00:41 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059270.D

Acq: 15 Nov 2019 16:47

Instrument :

MSVOA\_N

ClientSampleId :

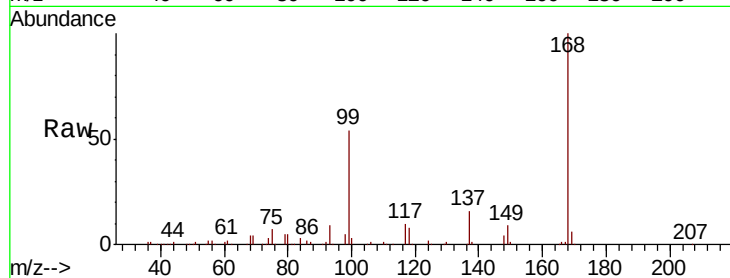
20983-32007

Tot Ion:168 Resp: 465275

Ion Ratio Lower Upper

168 100

99 53.5 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VN059270.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN059270.D (-1733) (-)

7.64

200000

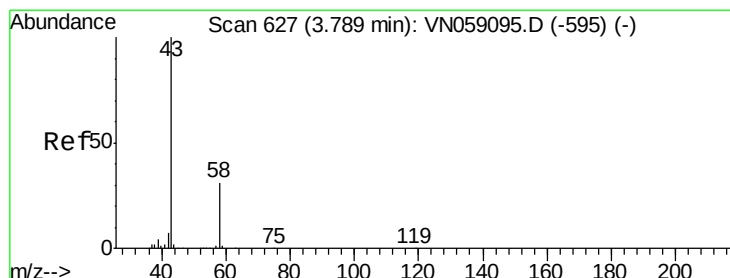
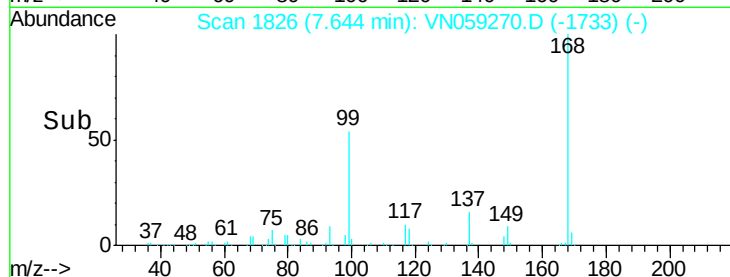
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 92.298 ug/l

RT: 3.79 min Scan# 626

Delta R.T. -0.00 min

Lab File: VN059270.D

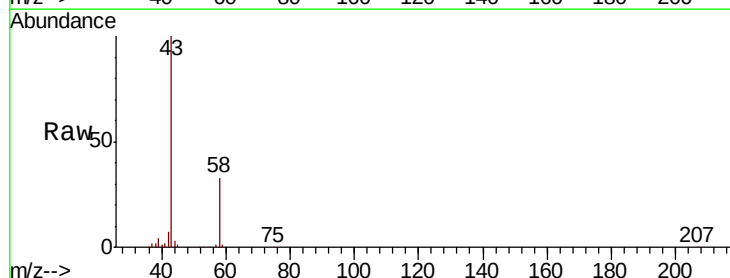
Acq: 15 Nov 2019 16:47

Tgt Ion: 43 Resp: 274515

Ion Ratio Lower Upper

43 100

58 32.7 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN059270.D (-534) (-)

Ion 58.00 (57.70 to 58.70): VN059270.D (-534) (-)

3.79

120000

100000

80000

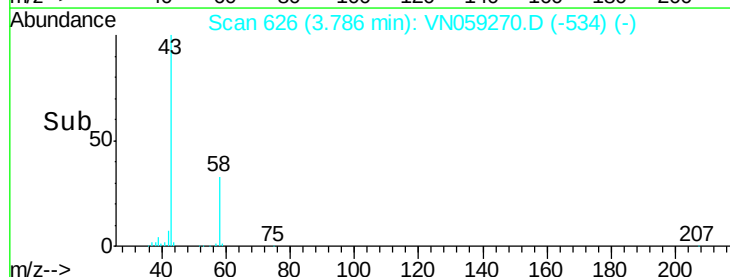
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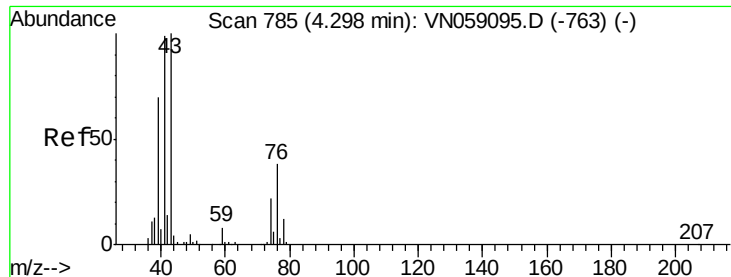
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20000

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Time-->

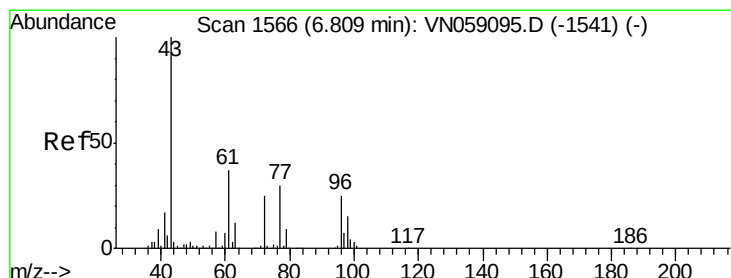
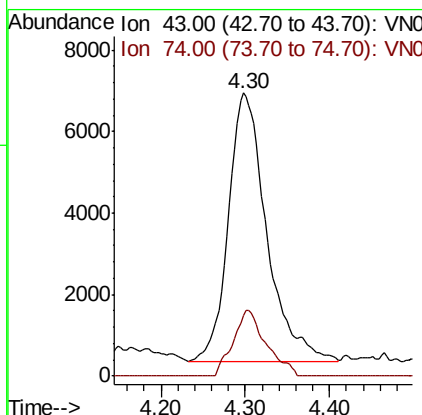
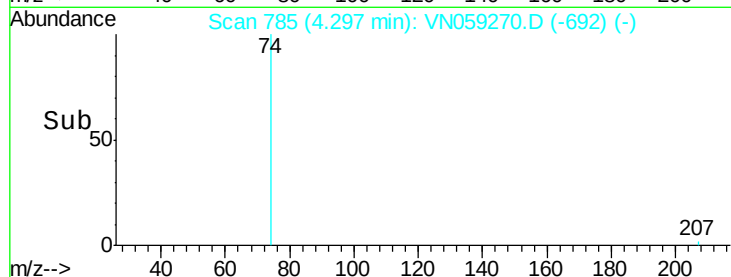
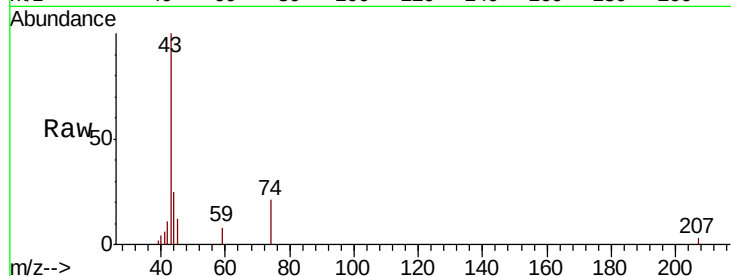




#18  
Methyl Acetate  
Concen: 2.946 ug/l  
RT: 4.30 min Scan# 785  
Delta R.T. -0.00 min  
Lab File: VN059270.D  
Acq: 15 Nov 2019 16:47

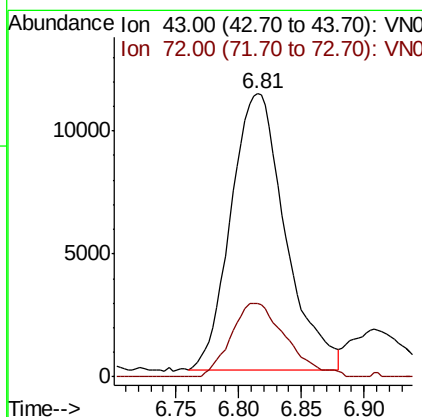
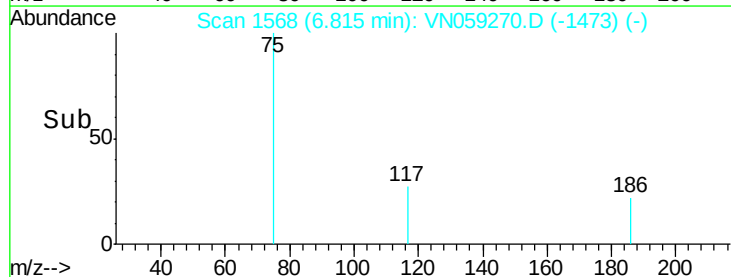
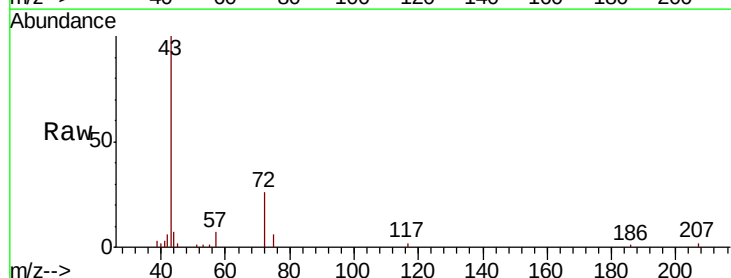
Instrument :  
MSVOA\_N  
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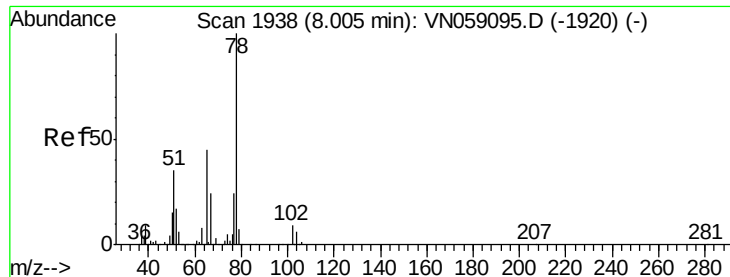
Tot Ion: 43 Resp: 20798  
Ion Ratio Lower Upper  
43 100  
74 21.1 17.8 26.8



#25  
2-Butanone  
Concen: 8.631 ug/l  
RT: 6.81 min Scan# 1568  
Delta R.T. 0.01 min  
Lab File: VN059270.D  
Acq: 15 Nov 2019 16:47

Tgt Ion: 43 Resp: 33831  
Ion Ratio Lower Upper  
43 100  
72 26.7 20.3 30.5

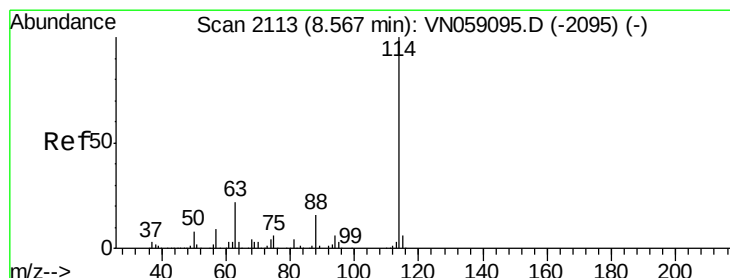
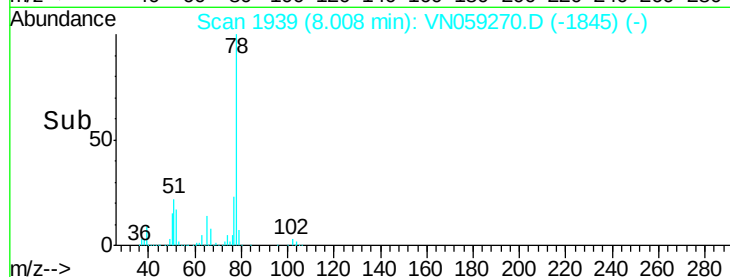
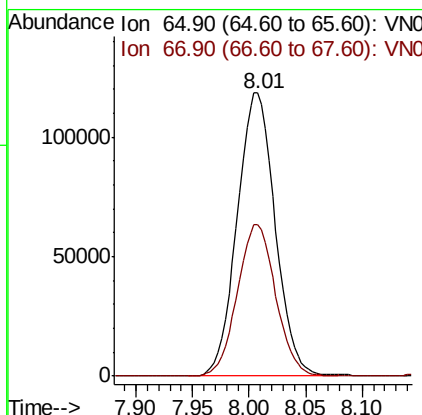
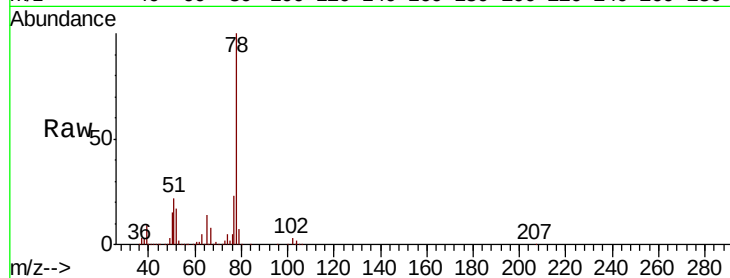




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.470 ug/l  
 RT: 8.01 min Scan# 1939  
 Delta R.T. 0.00 min  
 Lab File: VN059270.D  
 Acq: 15 Nov 2019 16:47

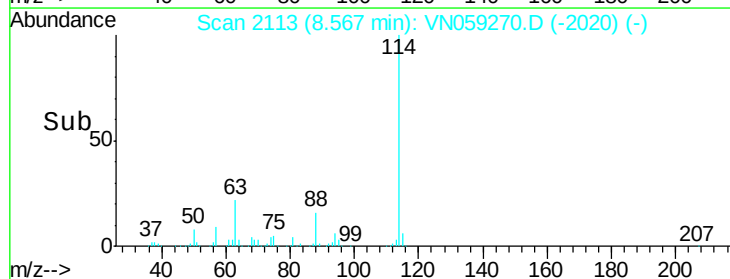
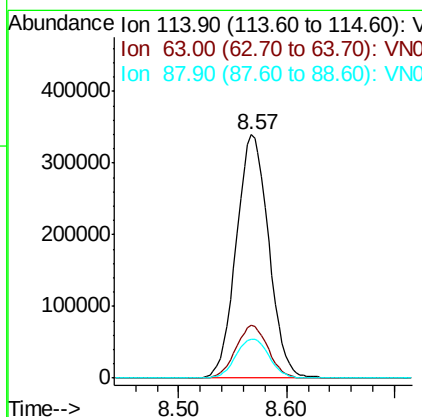
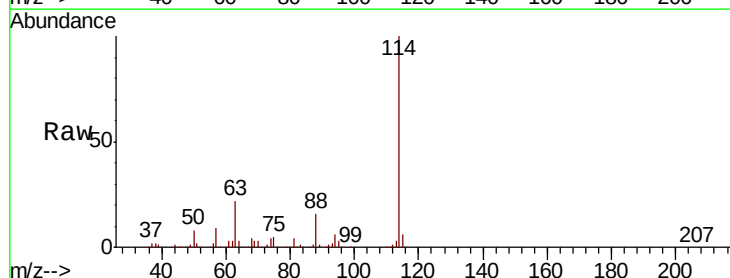
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 20983-32007

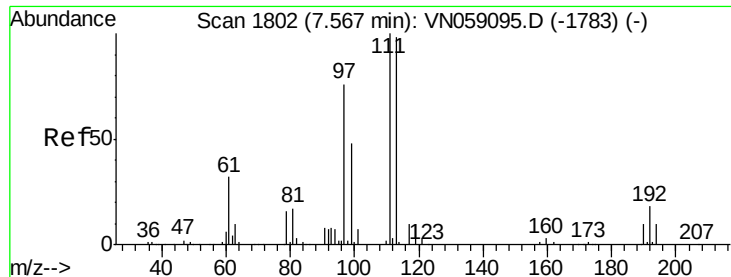
Tot Ion: 65 Resp: 277221  
 Ion Ratio Lower Upper  
 65 100  
 67 54.1 0.0 107.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. -0.00 min  
 Lab File: VN059270.D  
 Acq: 15 Nov 2019 16:47

Tgt Ion: 114 Resp: 709002  
 Ion Ratio Lower Upper  
 114 100  
 63 21.7 0.0 43.4  
 88 16.1 0.0 32.2

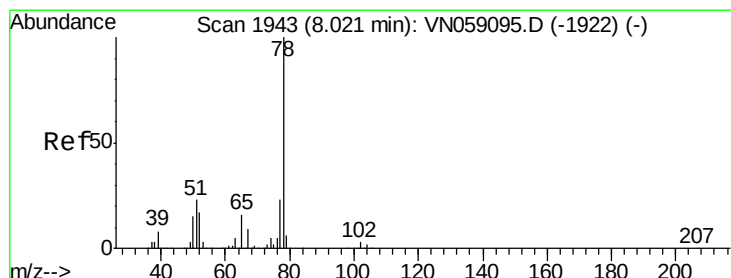
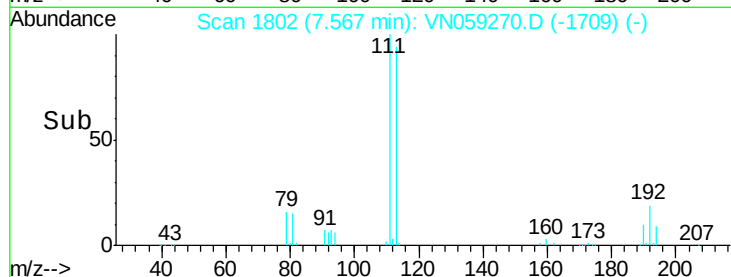
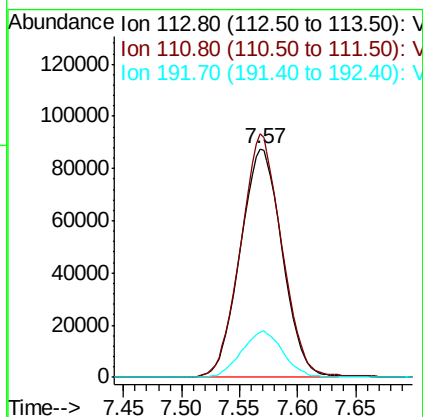
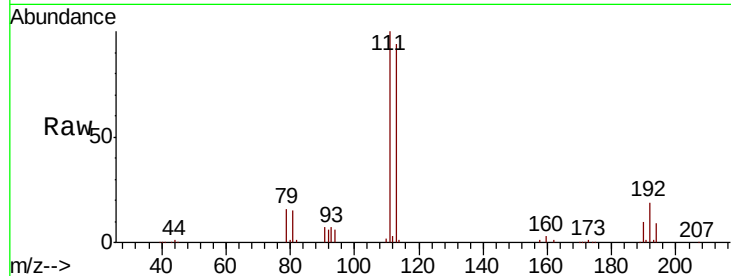




#35  
 Dibromofluoromethane  
 Concen: 52.126 ug/l  
 RT: 7.57 min Scan# 1802  
 Delta R.T. -0.00 min  
 Lab File: VN059270.D  
 Acq: 15 Nov 2019 16:47

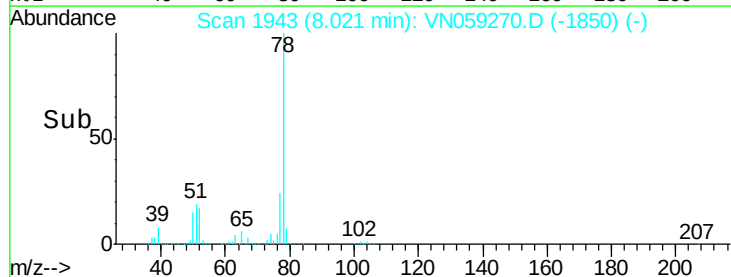
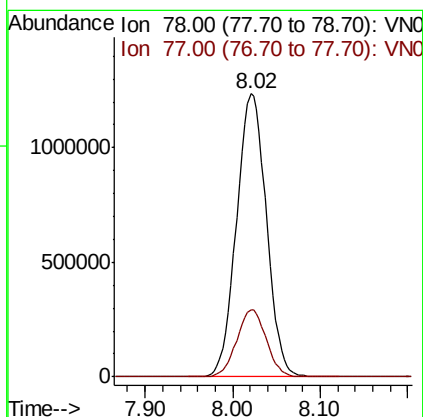
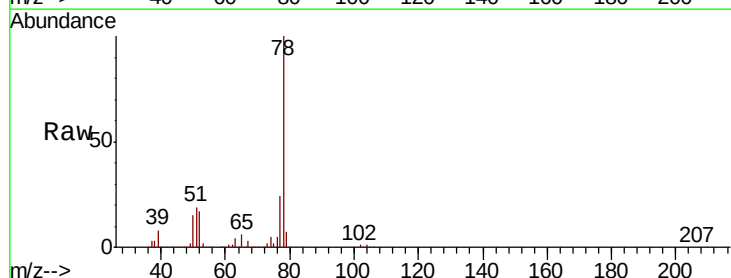
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 20983-32007

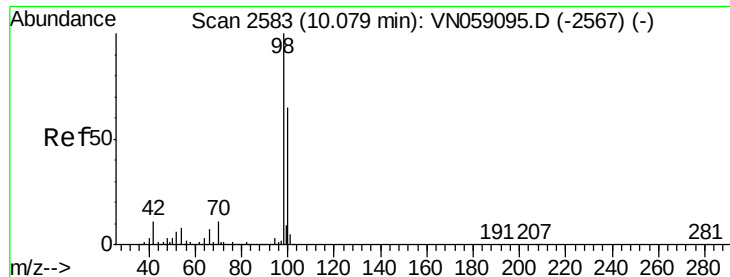
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.6 | 82.8  | 124.2 |
| 192     | 20.1  | 16.1  | 24.1  |



#40  
 Benzene  
 Concen: 146.814 ug/l  
 RT: 8.02 min Scan# 1943  
 Delta R.T. -0.00 min  
 Lab File: VN059270.D  
 Acq: 15 Nov 2019 16:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.8  | 18.8  | 28.2  |

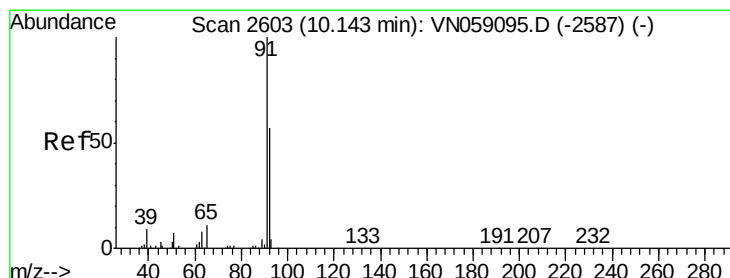
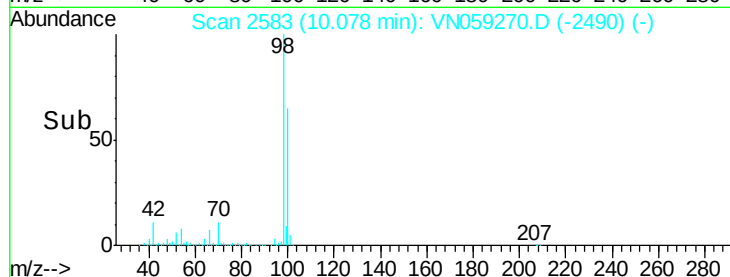
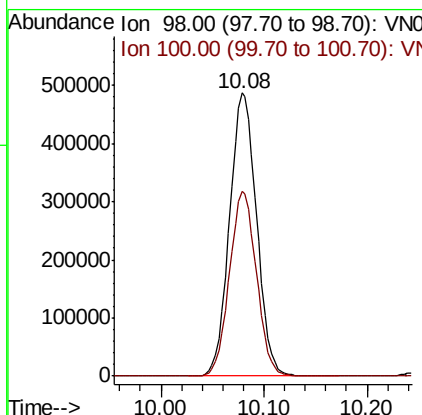
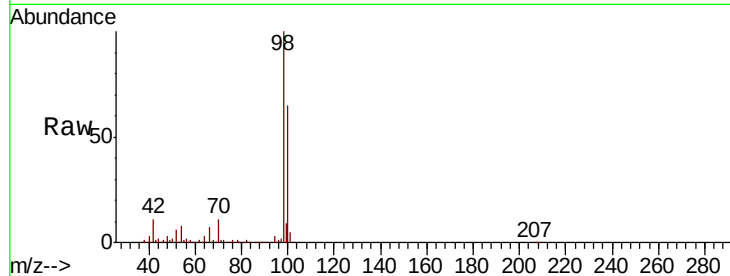




#50  
Toluene-d8  
Concen: 53.411 ug/l  
RT: 10.08 min Scan# 2583  
Delta R.T. -0.00 min  
Lab File: VN059270.D  
Acq: 15 Nov 2019 16:47

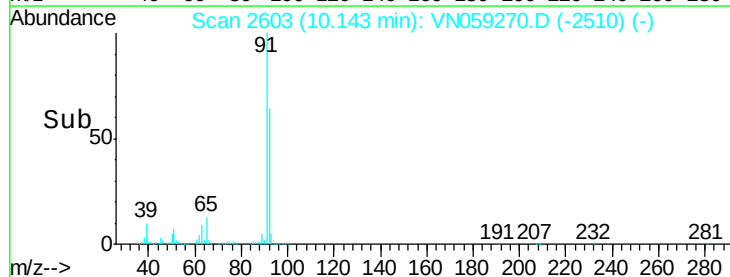
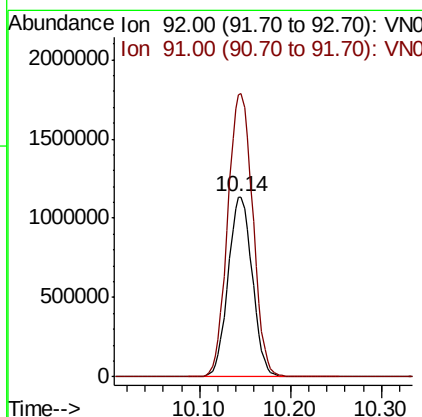
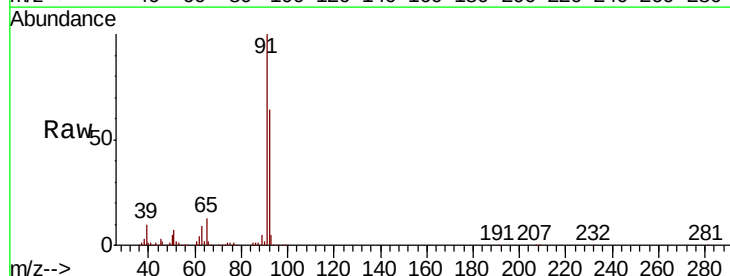
Instrument :  
MSVOA\_N  
ClientSampled :  
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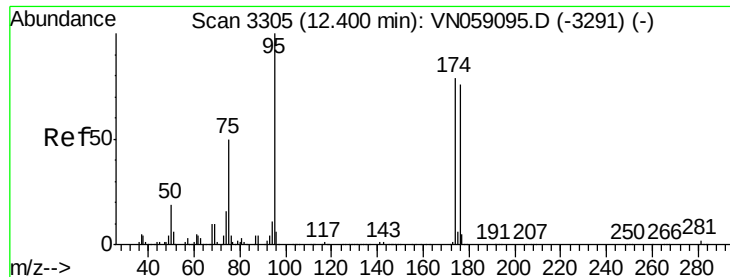
Tot Ion: 98 Resp: 890639  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.2 78.2



#52  
Toluene  
Concen: 175.603 ug/l  
RT: 10.14 min Scan# 2603  
Delta R.T. -0.00 min  
Lab File: VN059270.D  
Acq: 15 Nov 2019 16:47

Tgt Ion: 92 Resp: 2100451  
Ion Ratio Lower Upper  
92 100  
91 163.5 139.5 209.3

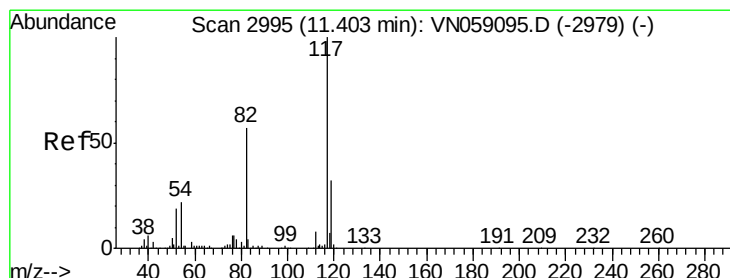
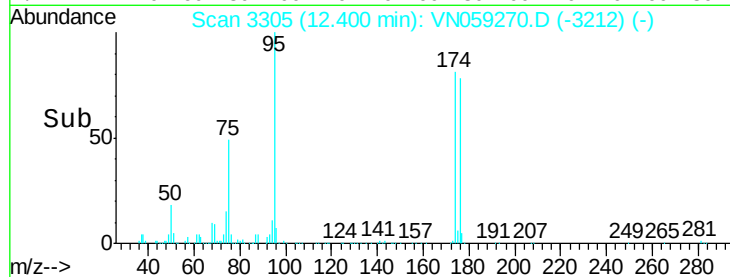
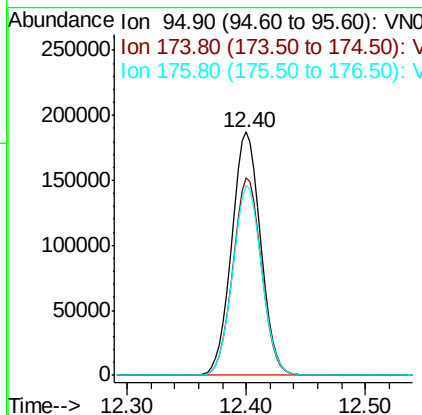
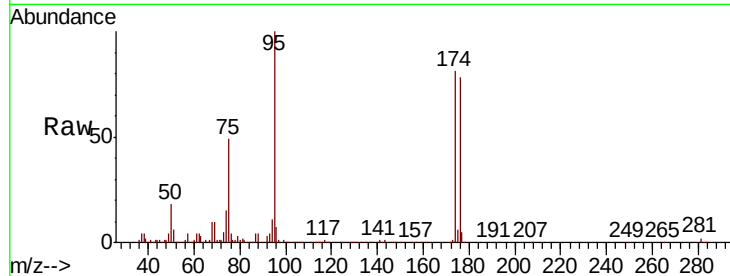




#62  
4-Bromofluorobenzene  
Concen: 52.516 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN059270.D  
Acq: 15 Nov 2019 16:47

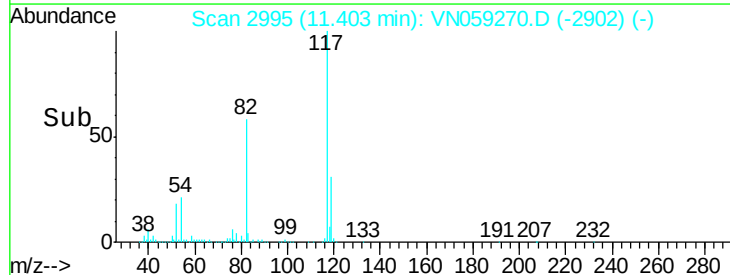
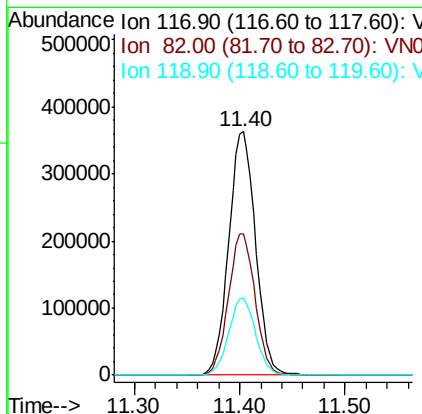
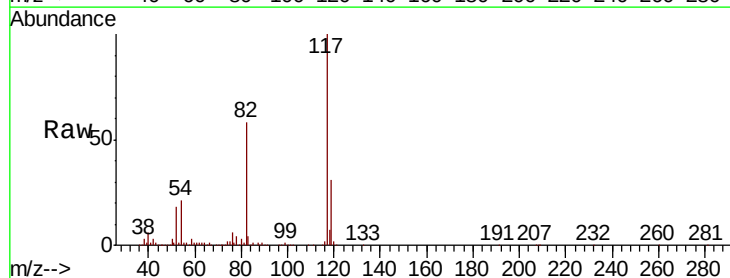
Instrument :  
MSVOA\_N  
ClientSampled :  
20983-32007

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 79.9  | 0.0   | 158.2 |
| 176     | 77.9  | 0.0   | 151.8 |

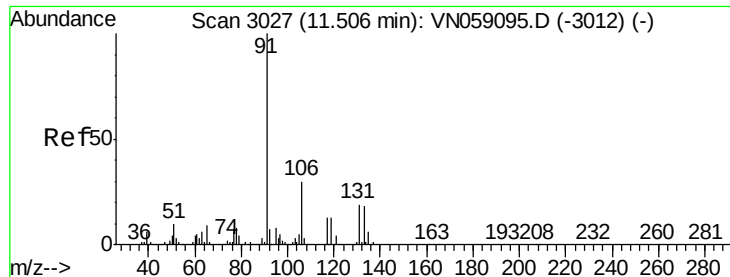


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2995  
Delta R.T. -0.00 min  
Lab File: VN059270.D  
Acq: 15 Nov 2019 16:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.9  | 45.8  | 68.8  |
| 119     | 31.5  | 25.8  | 38.6  |



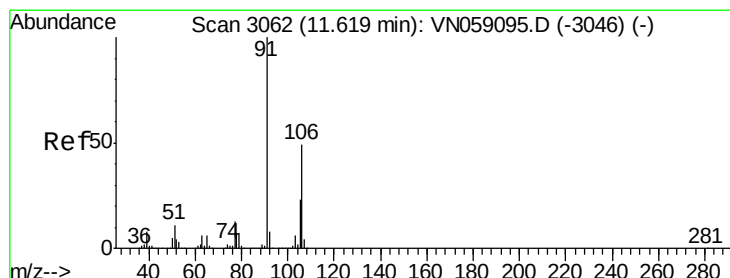
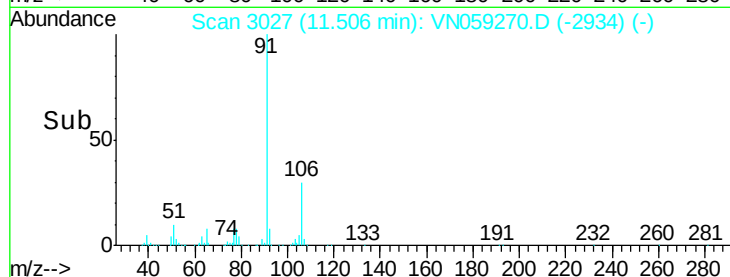
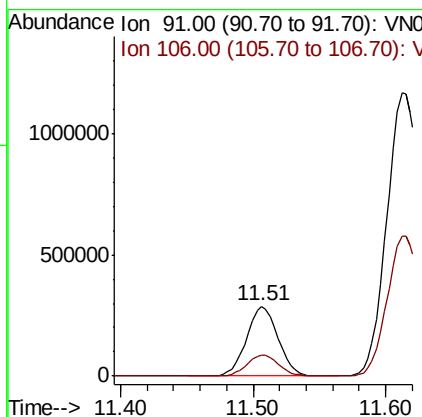
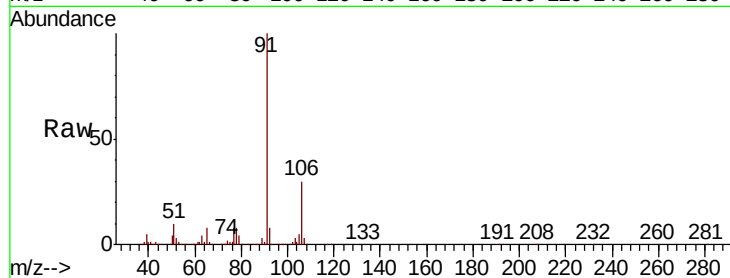




#67  
Ethyl Benzene  
Concen: 21.589 ug/l  
RT: 11.51 min Scan# 3027  
Delta R.T. -0.00 min  
Lab File: VN059270.D  
Acq: 15 Nov 2019 16:47

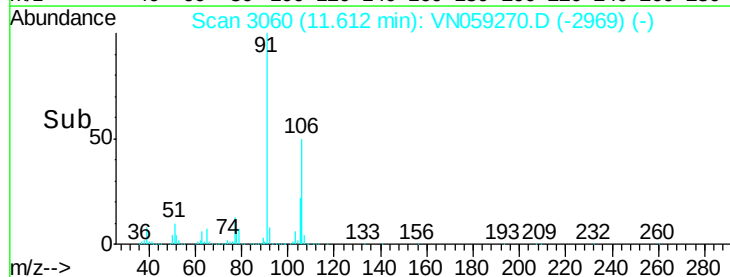
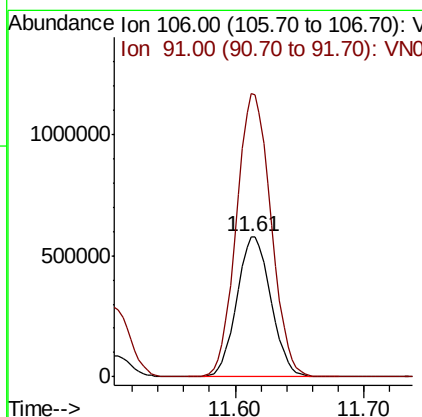
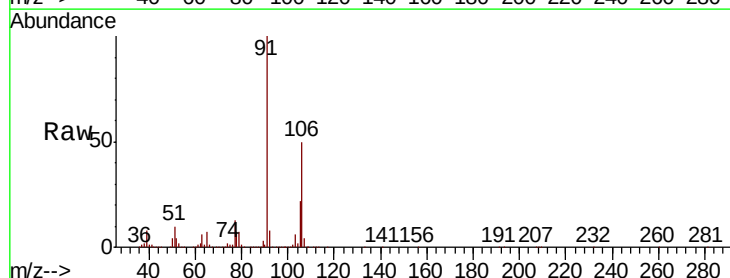
Instrument :  
MSVOA\_N  
ClientSampled :  
20983-32007

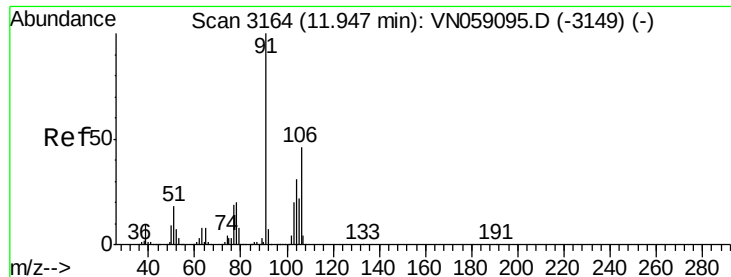
Tot Ion: 91 Resp: 475733  
Ion Ratio Lower Upper  
91 100  
106 30.4 24.1 36.1



#68  
m/p-Xylenes  
Concen: 128.876 ug/l  
RT: 11.61 min Scan# 3060  
Delta R.T. -0.01 min  
Lab File: VN059270.D  
Acq: 15 Nov 2019 16:47

Tgt Ion: 106 Resp: 1063776  
Ion Ratio Lower Upper  
106 100  
91 204.2 164.7 247.1

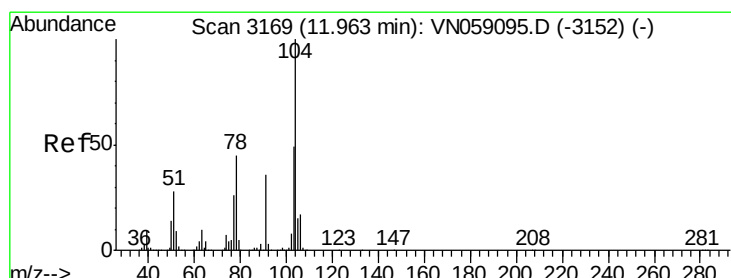
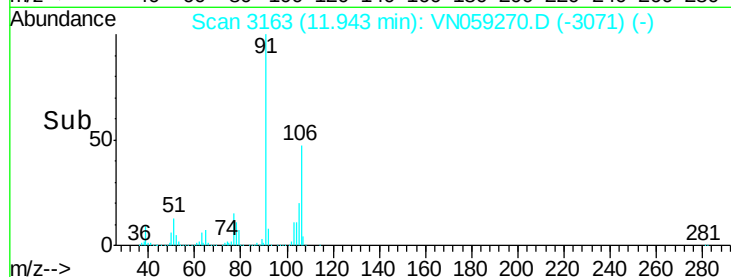
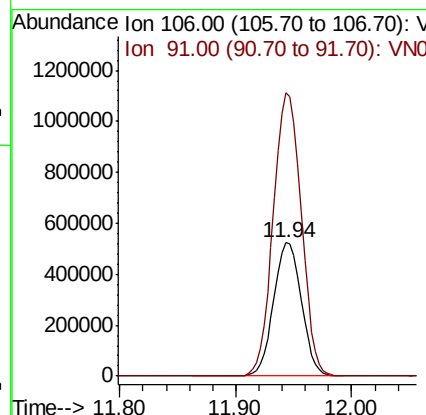
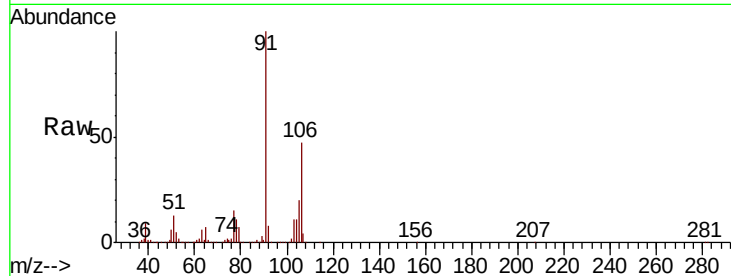




#69  
o-Xylene  
Concen: 108.933 ug/l  
RT: 11.94 min Scan# 3163  
Delta R.T. -0.00 min  
Lab File: VN059270.D  
Acq: 15 Nov 2019 16:47

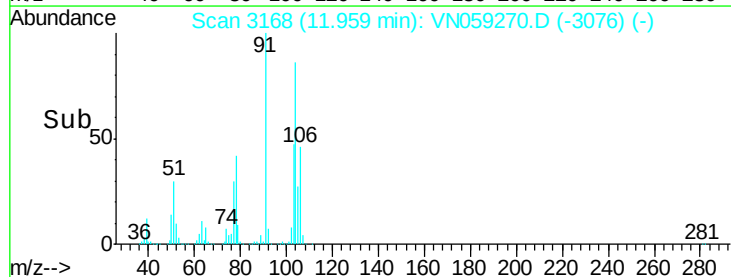
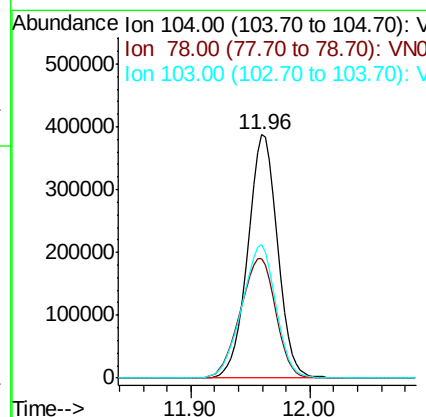
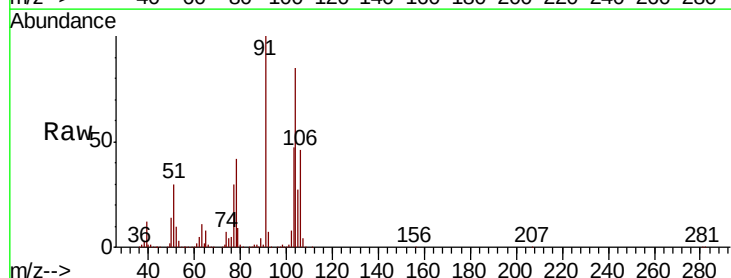
Instrument :  
MSVOA\_N  
ClientSampleId :  
20983-32007

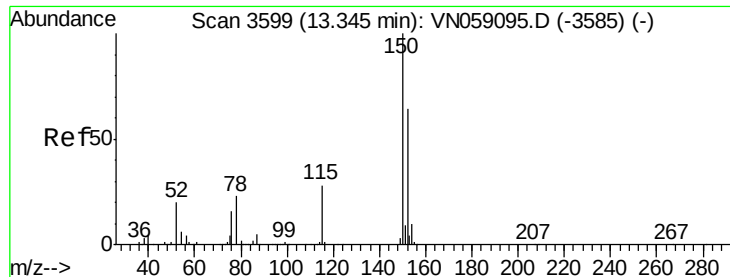
Tot Ion:106 Resp: 868950  
Ion Ratio Lower Upper  
106 100  
91 214.8 110.1 330.3



#70  
Styrene  
Concen: 53.584 ug/l  
RT: 11.96 min Scan# 3168  
Delta R.T. -0.00 min  
Lab File: VN059270.D  
Acq: 15 Nov 2019 16:47

Tgt Ion:104 Resp: 672238  
Ion Ratio Lower Upper  
104 100  
78 58.3 41.2 61.8  
103 62.1 43.8 65.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN059270.D

Acq: 15 Nov 2019 16:47

Instrument :

MSVOA\_N

ClientSampleId :

20983-32007

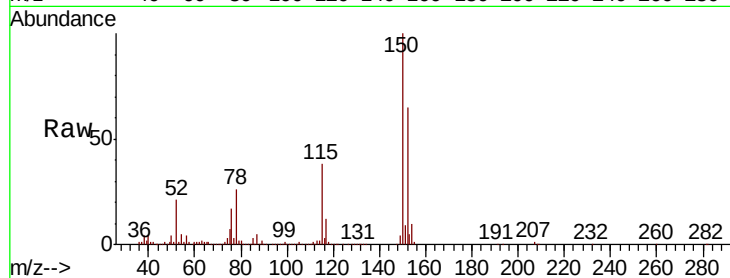
Tot Ion:152 Resp: 286262

Ion Ratio Lower Upper

152 100

115 66.5 29.4 88.2

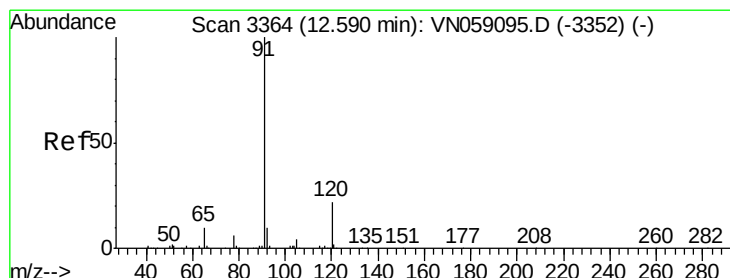
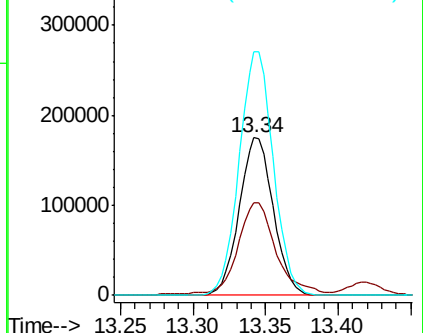
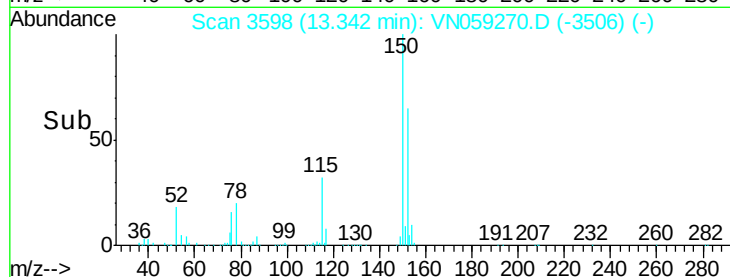
150 154.9 0.0 345.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#78

n-propylbenzene

Concen: 2.781 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN059270.D

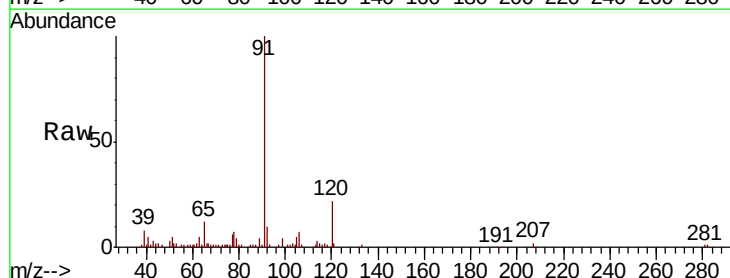
Acq: 15 Nov 2019 16:47

Tgt Ion: 91 Resp: 66315

Ion Ratio Lower Upper

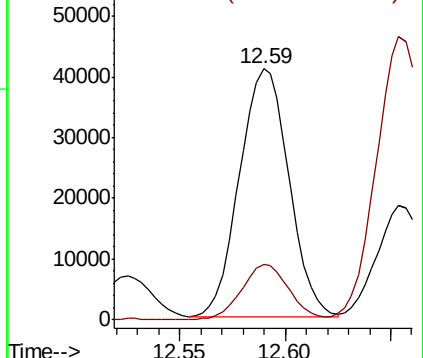
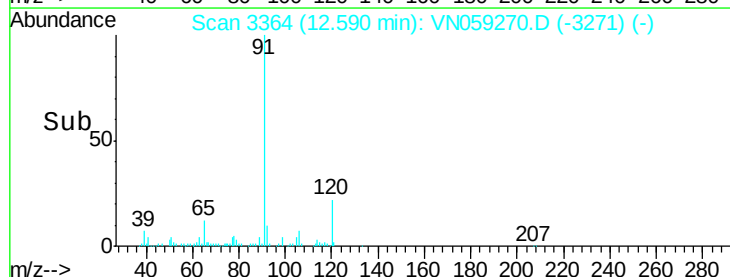
91 100

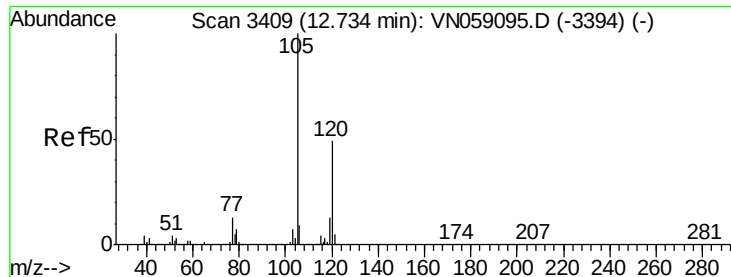
120 21.5 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 11.366 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN059270.D

Acq: 15 Nov 2019 16:47

Instrument :

MSVOA\_N

ClientSampled :

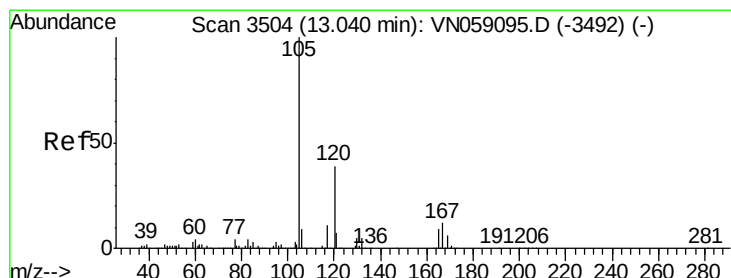
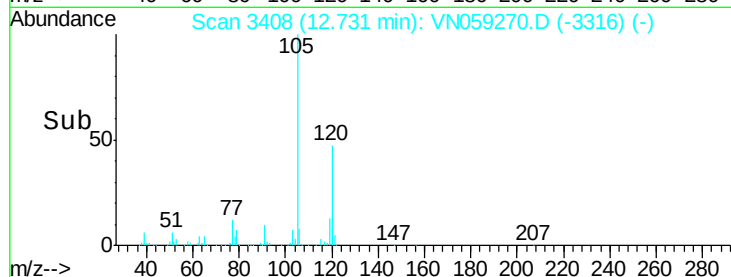
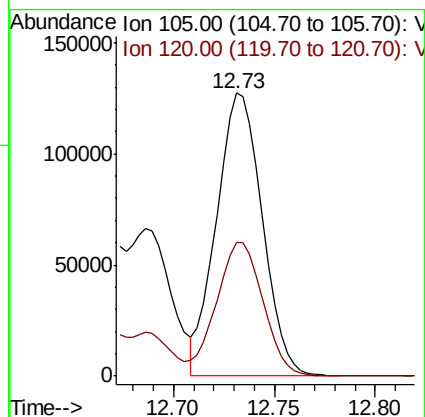
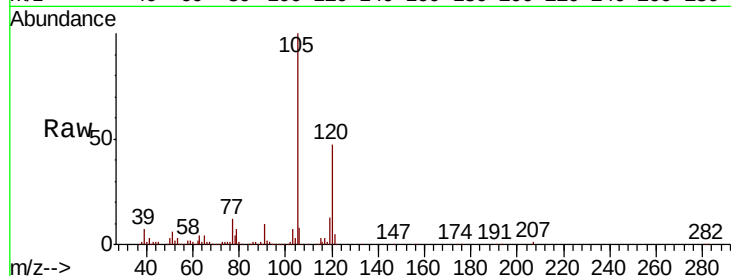
20983-32007

Tot Ion:105 Resp: 200548

Ion Ratio Lower Upper

105 100

120 48.7 24.0 72.0



#84

1,2,4-Trimethylbenzene

Concen: 41.929 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN059270.D

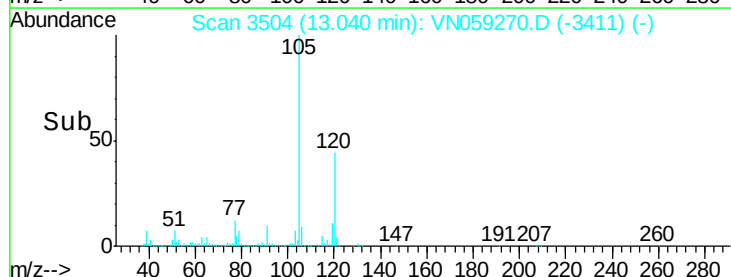
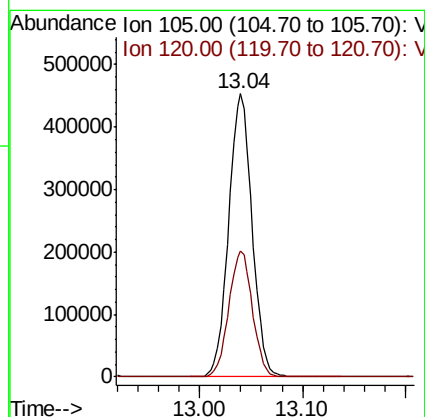
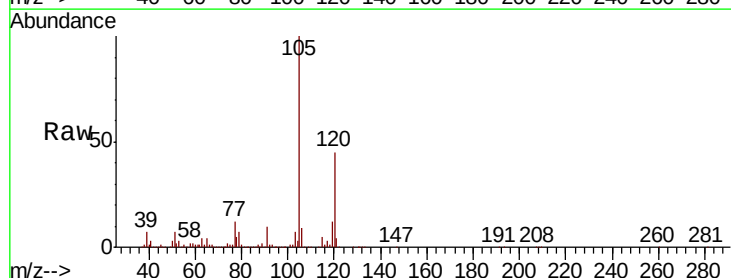
Acq: 15 Nov 2019 16:47

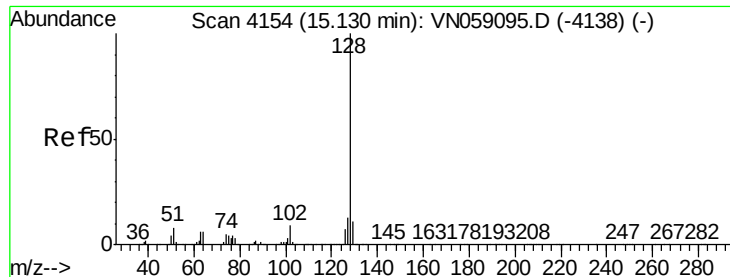
Tgt Ion:105 Resp: 715755

Ion Ratio Lower Upper

105 100

120 44.9 22.8 68.4





#95

Naphthalene

Concen: 316.405 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN059270.D

Acq: 15 Nov 2019 16:47

Instrument :

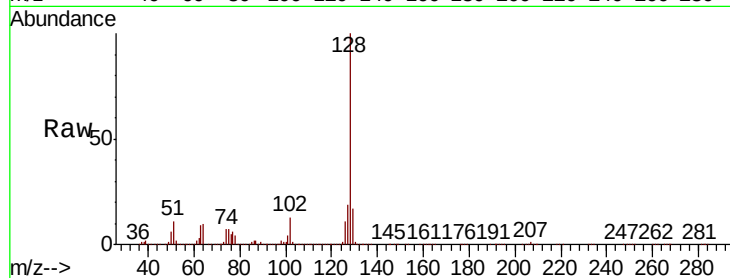
MSVOA\_N

ClientSampleId :

20983-32007

Tot Ion:128 Resp: 4949845

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 16.1  | 10.2  | 15.2# |
| 129 | 13.9  | 8.6   | 12.8# |



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

