

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102519\  
 Data File : VN058962.D  
 Acq On : 24 Oct 2019 15:34  
 Operator : JC/SP  
 Sample : K5486-03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 KY038PS037-191021

Manual Integrations  
 APPROVED

MMDadoda  
 10/26/2019 1:16:09 AM

Quant Time: Oct 25 02:18:05 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N101819W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 19 00:16:20 2019  
 Response via : Initial Calibration

| Internal Standards           | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene        | 7.65  | 168  | 347184   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.57  | 114  | 542983   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5         | 11.41 | 117  | 479035   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.35 | 152  | 173065   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds  |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4    | 8.01  | 65   | 258895   | 50.84  | ug/l    | 0.00     |
| Spiked Amount 50.000         |       |      | Recovery | =      | 101.68% |          |
| 35) Dibromofluoromethane     | 7.57  | 113  | 185034   | 51.83  | ug/l    | 0.00     |
| Spiked Amount 50.000         |       |      | Recovery | =      | 103.66% |          |
| 50) Toluene-d8               | 10.08 | 98   | 692396   | 49.96  | ug/l    | 0.00     |
| Spiked Amount 50.000         |       |      | Recovery | =      | 99.92%  |          |
| 62) 4-Bromofluorobenzene     | 12.40 | 95   | 217901   | 42.82  | ug/l    | 0.00     |
| Spiked Amount 50.000         |       |      | Recovery | =      | 85.64%  |          |
| Target Compounds             |       |      |          |        |         |          |
| 16) Acetone                  | 3.81  | 43   | 8212m    | 3.264  | ug/l    |          |
| 21) trans-1,2-Dichloroethene | 5.01  | 96   | 1983     | 0.525  | ug/l #  | 73       |
| 27) cis-1,2-Dichloroethene   | 6.81  | 96   | 46658    | 10.806 | ug/l    | 88       |
| 44) Trichloroethene          | 8.82  | 130  | 1605     | 0.404  | ug/l    | 92       |
| 95) Naphthalene              | 15.13 | 128  | 6444     | 2.846  | ug/l    | 97       |

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

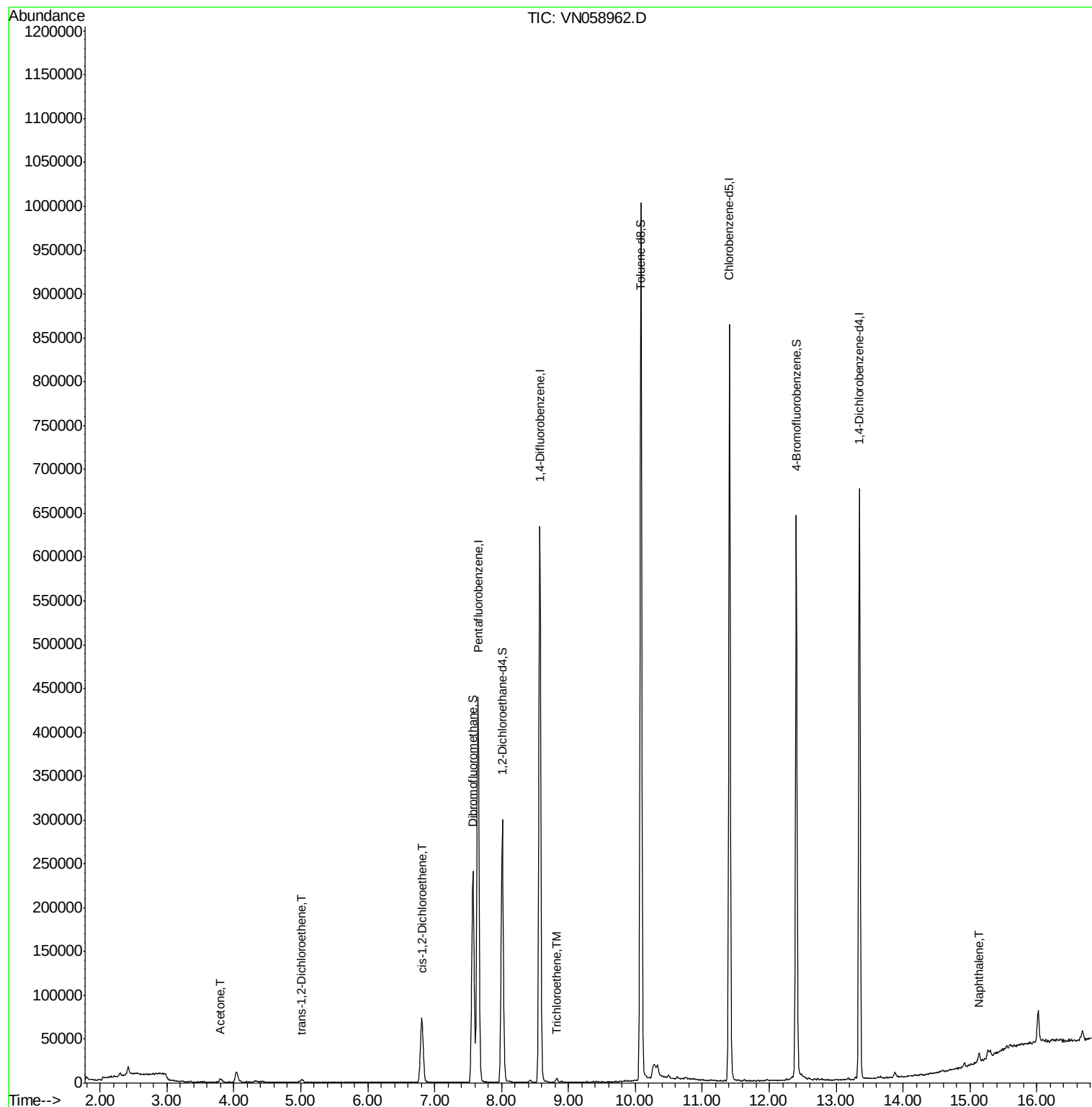
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN102519\  
Data File : VN058962.D  
Acq On : 24 Oct 2019 15:34  
Operator : JC/SP  
Sample : K5486-03  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 18 Sample Multiplier: 1

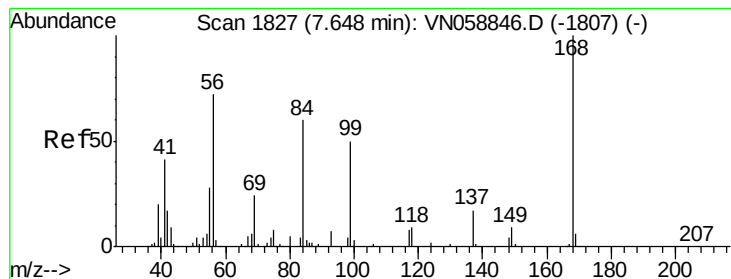
Instrument :  
MSVOA\_N  
ClientSampleId :  
KY038PS037-191021

Manual Integrations  
APPROVED

MMDadoda  
10/26/2019 1:16:09 AM

Quant Time: Oct 25 02:18:05 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N101819W.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 19 00:16:20 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: VN058962.D

Acq: 24 Oct 2019 15:34

Instrument :

MSVOA\_N

ClientSampleId :

KY038PS037-191021

Tot Ion:168 Resp: 347184

Ion Ratio Lower Upper

168 100

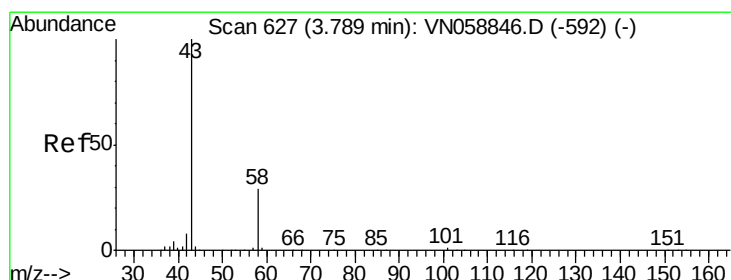
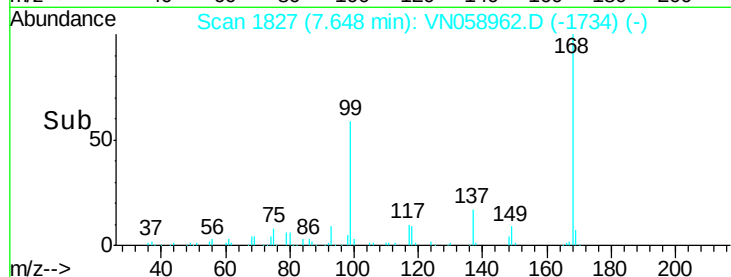
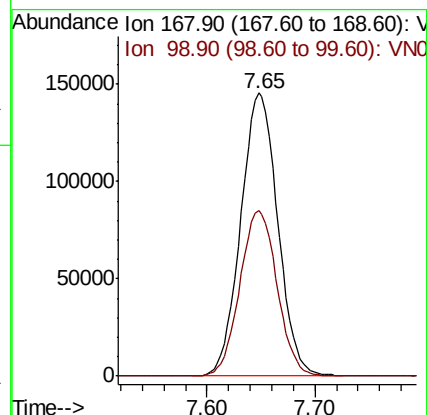
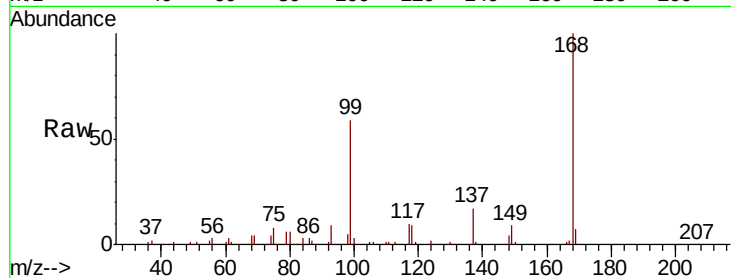
99 58.6 48.1 72.1

Manual Integrations

APPROVED

MMDadoda

10/26/2019 1:16:09 AM



#16

Acetone

Concen: 3.264 ug/l m

RT: 3.81 min Scan# 632

Delta R.T. 0.02 min

Lab File: VN058962.D

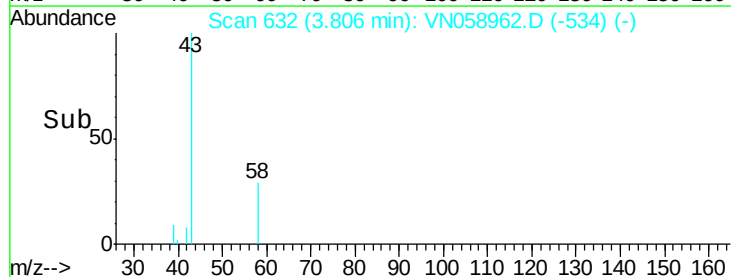
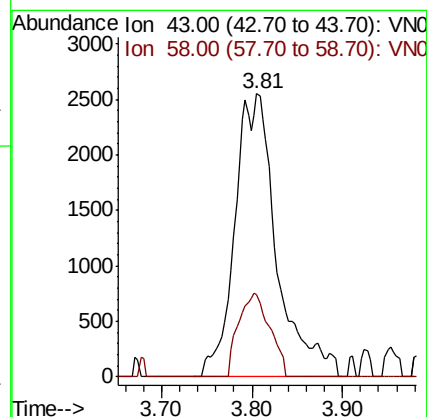
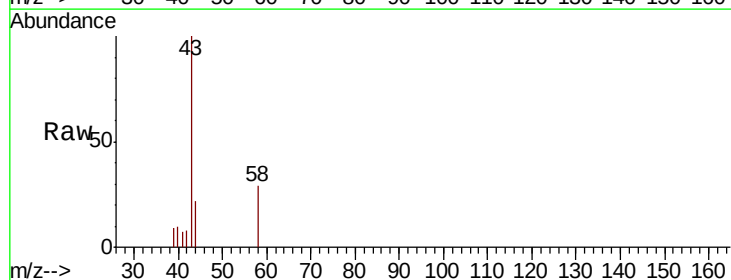
Acq: 24 Oct 2019 15:34

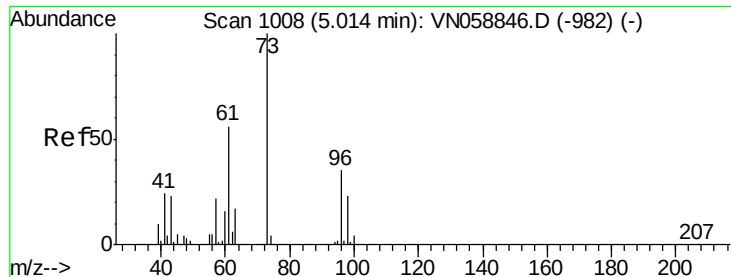
Tgt Ion: 43 Resp: 8212

Ion Ratio Lower Upper

43 100

58 29.0 23.1 34.7





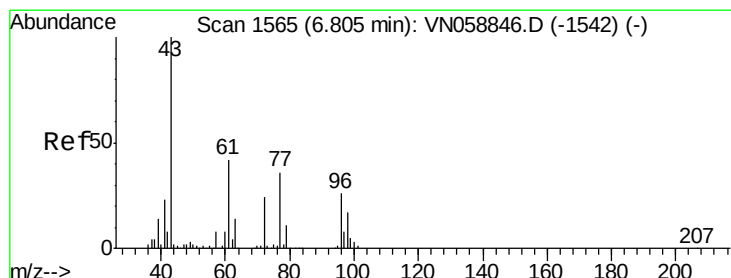
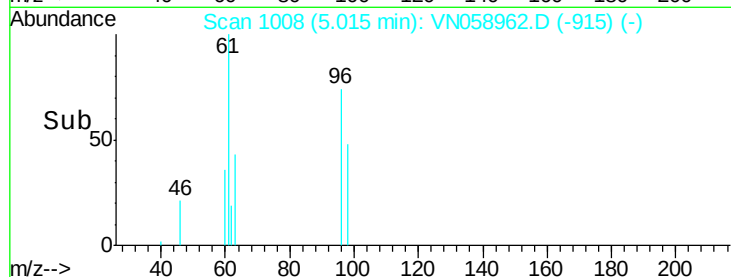
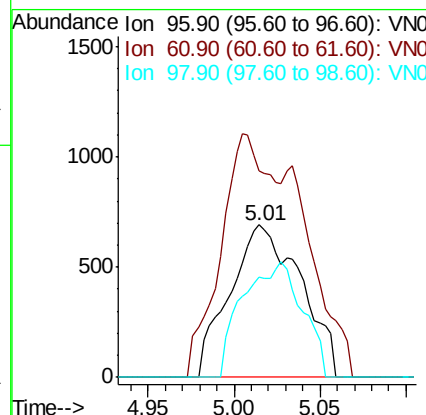
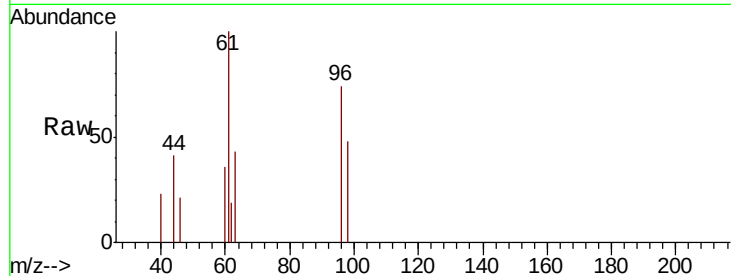
#21  
trans-1,2-Dichloroethene  
Concen: 0.525 ug/l  
RT: 5.01 min Scan# 1008  
Delta R.T. 0.00 min  
Lab File: VN058962.D  
Acq: 24 Oct 2019 15:34

Instrument :  
MSVOA\_N  
ClientSampleId :  
KY038PS037-191021

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 96      | 100   |       |        |
| 61      | 108.7 | 126.7 | 190.1# |
| 98      | 65.4  | 52.0  | 78.0   |

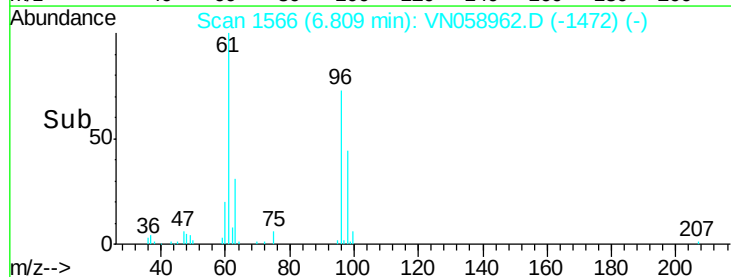
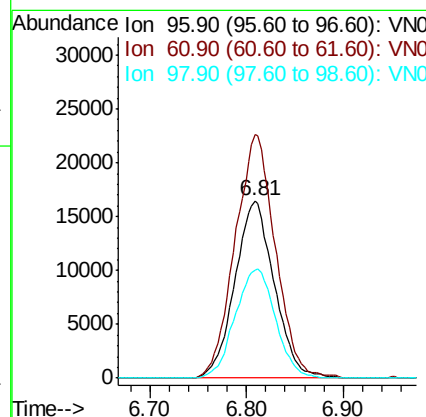
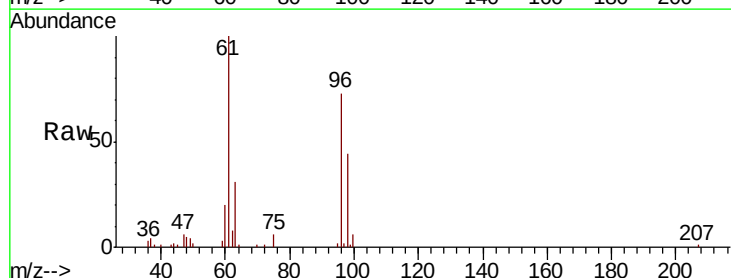
Manual Integrations  
APPROVED

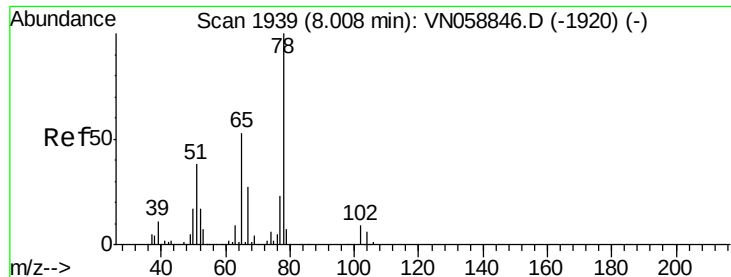
MMDadoda  
10/26/2019 1:16:09 AM



#27  
cis-1,2-Dichloroethene  
Concen: 10.806 ug/l  
RT: 6.81 min Scan# 1566  
Delta R.T. 0.00 min  
Lab File: VN058962.D  
Acq: 24 Oct 2019 15:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 140.0 | 0.0   | 325.0 |
| 98      | 62.9  | 0.0   | 128.0 |





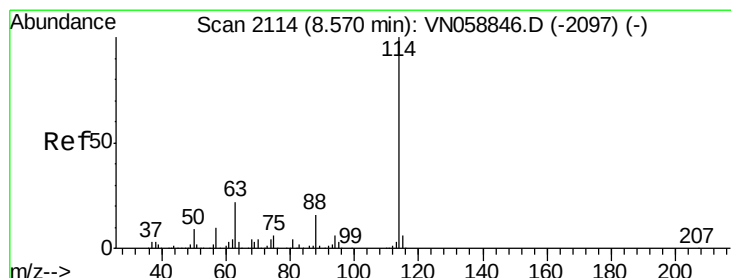
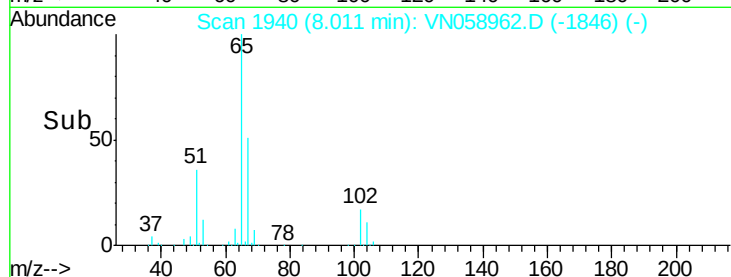
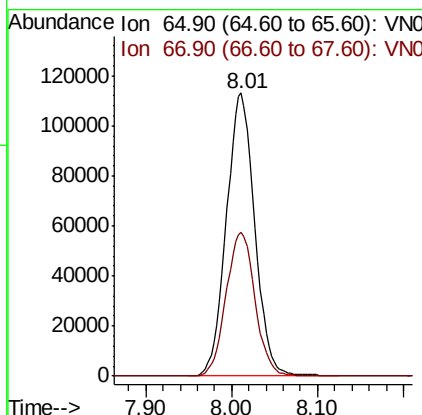
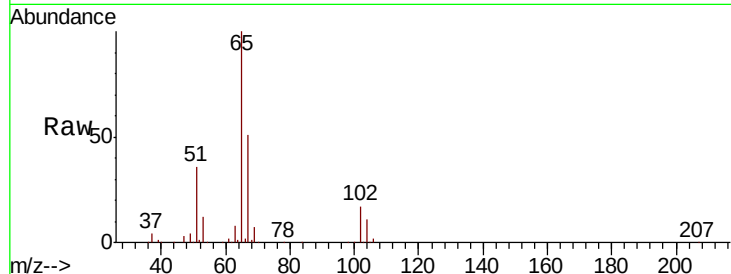
#33  
 1,2-Dichloroethane-d4  
 Concen: 50.844 ug/l  
 RT: 8.01 min Scan# 1940  
 Delta R.T. 0.00 min  
 Lab File: VN058962.D  
 Acq: 24 Oct 2019 15:34

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 KY038PS037-191021

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 258895 |       |       |
| 67      | 51.9  | 0.0    | 103.2 |       |

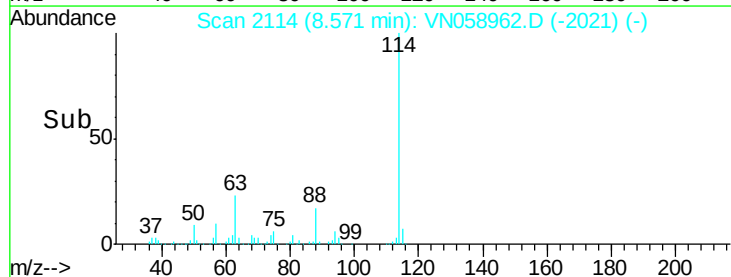
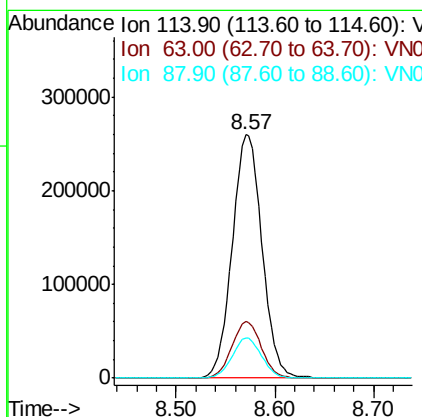
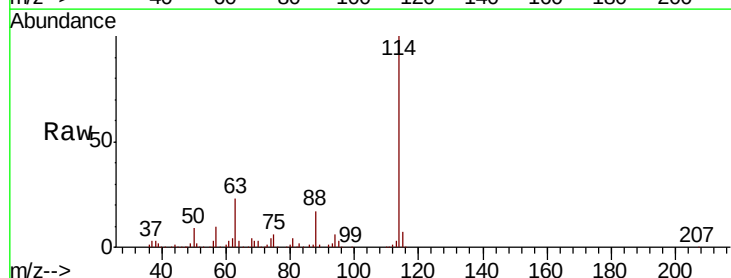
Manual Integrations  
 APPROVED

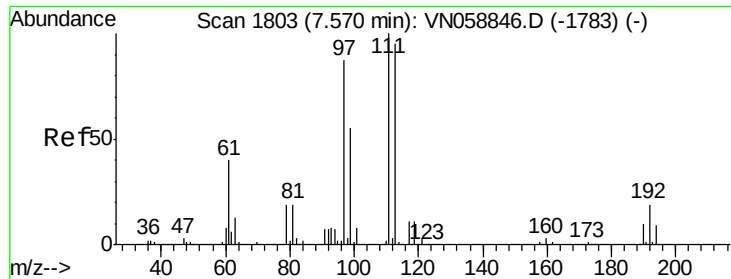
MMDadoda  
 10/26/2019 1:16:09 AM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2114  
 Delta R.T. 0.00 min  
 Lab File: VN058962.D  
 Acq: 24 Oct 2019 15:34

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 542983 |       |       |
| 63      | 23.1  | 0.0    | 44.4  |       |
| 88      | 16.7  | 0.0    | 31.4  |       |





#35

Dibromofluoromethane

Concen: 51.831 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

Instrument :

MSVOA\_N

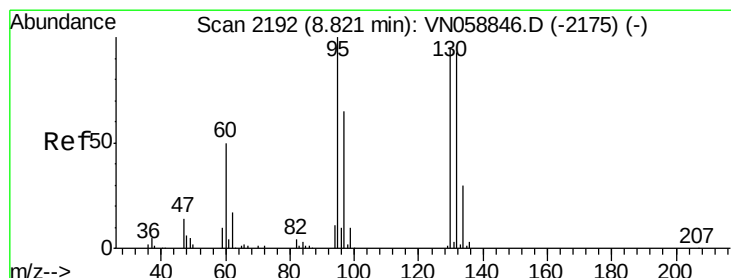
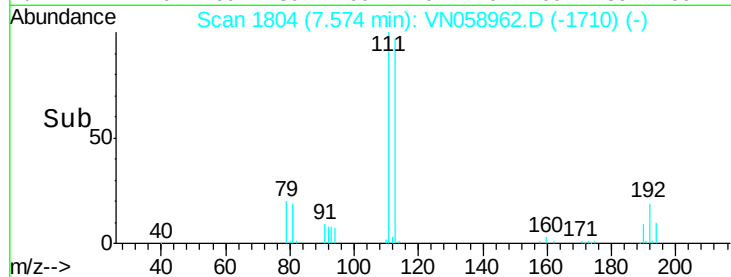
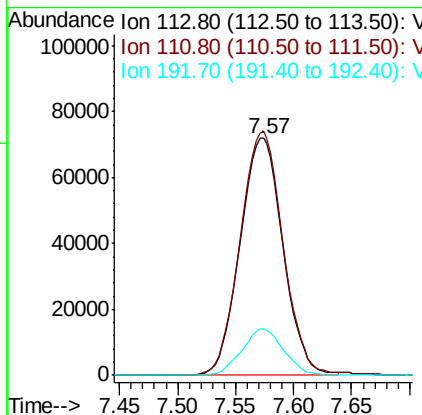
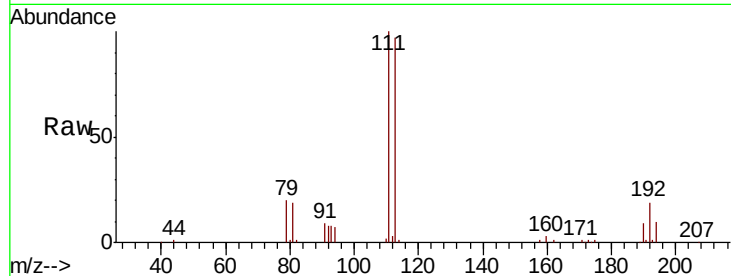
ClientSampleId :

KY038PS037-191021

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.4 | 82.0  | 123.0 |
| 192     | 19.0  | 15.0  | 22.6  |

Manual Integrations  
APPROVED

MMDadoda  
10/26/2019 1:16:09 AM



#44

Trichloroethene

Concen: 0.404 ug/l

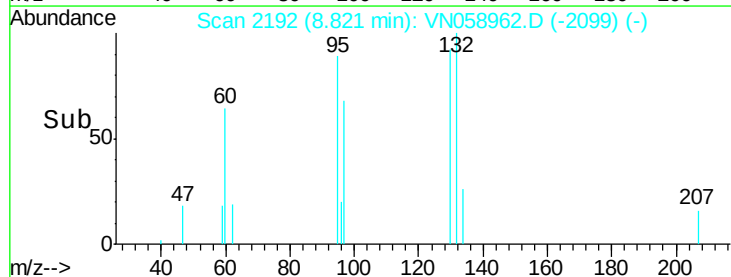
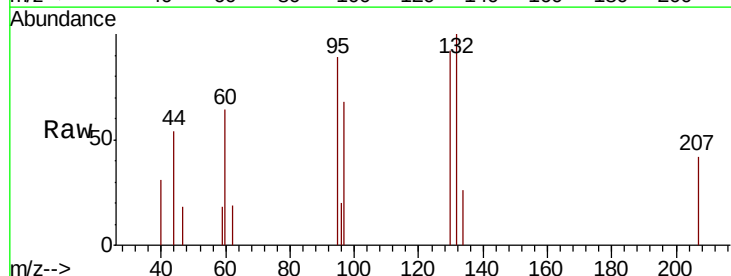
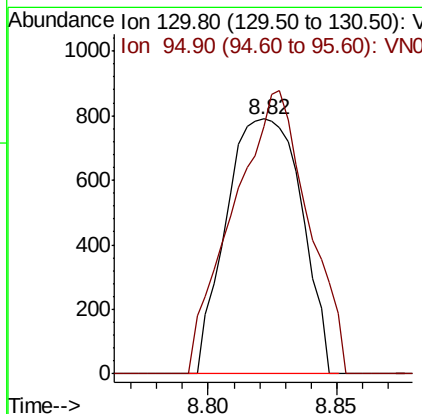
RT: 8.82 min Scan# 2192

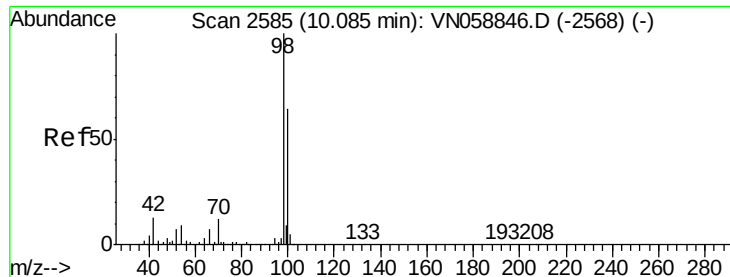
Delta R.T. 0.00 min

Lab File: VN058962.D

Acq: 24 Oct 2019 15:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 97.1  | 0.0   | 209.6 |





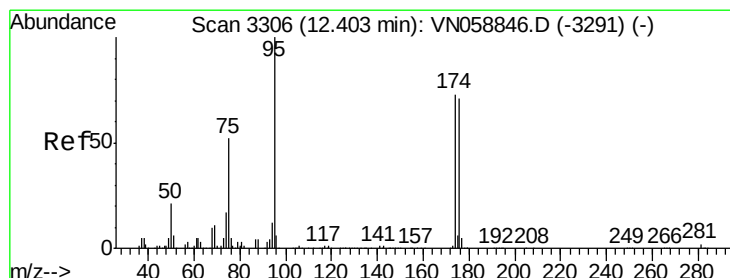
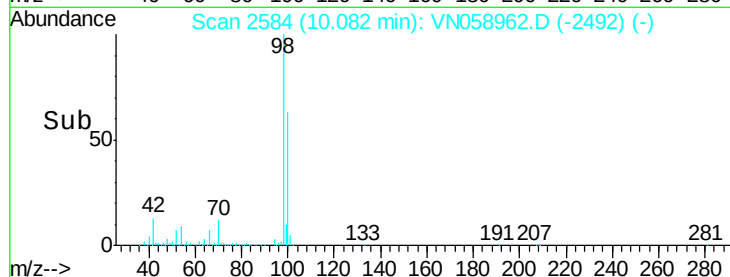
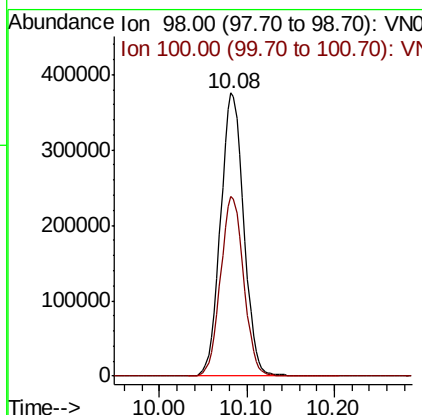
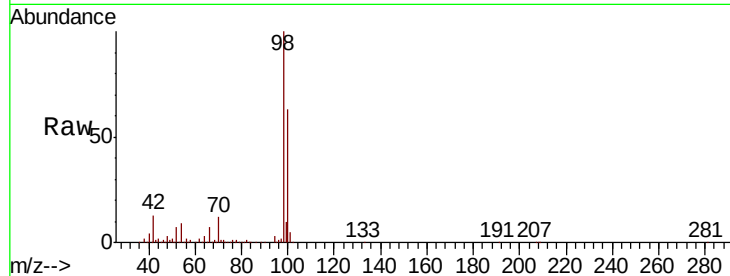
#50  
Toluene-d8  
Concen: 49.963 ug/l  
RT: 10.08 min Scan# 2584  
Delta R.T. -0.00 min  
Lab File: VN058962.D  
Acq: 24 Oct 2019 15:34

Instrument :  
MSVOA\_N  
ClientSampleId :  
KY038PS037-191021

Tot Ion: 98 Resp: 692396  
Ion Ratio Lower Upper  
98 100  
100 63.0 51.4 77.2

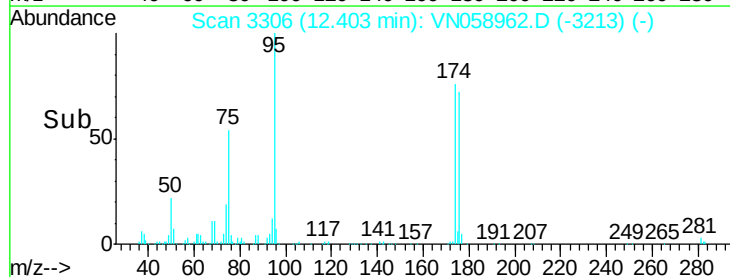
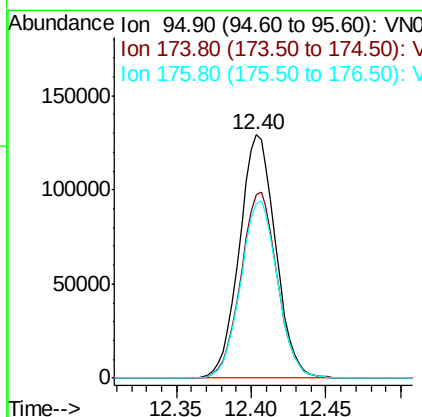
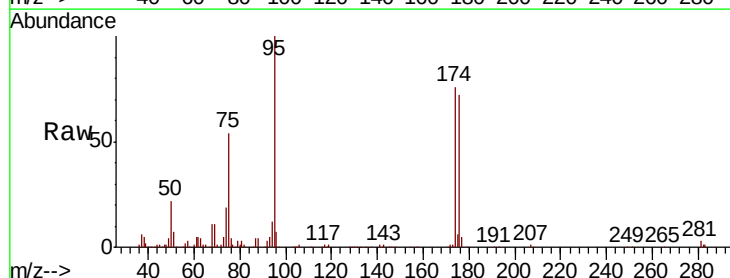
Manual Integrations  
APPROVED

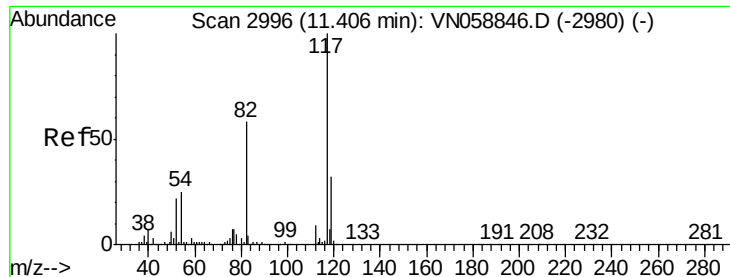
MMDadoda  
10/26/2019 1:16:09 AM



#62  
4-Bromofluorobenzene  
Concen: 42.817 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN058962.D  
Acq: 24 Oct 2019 15:34

Tgt Ion: 95 Resp: 217901  
Ion Ratio Lower Upper  
95 100  
174 76.7 0.0 147.6  
176 74.1 0.0 143.2





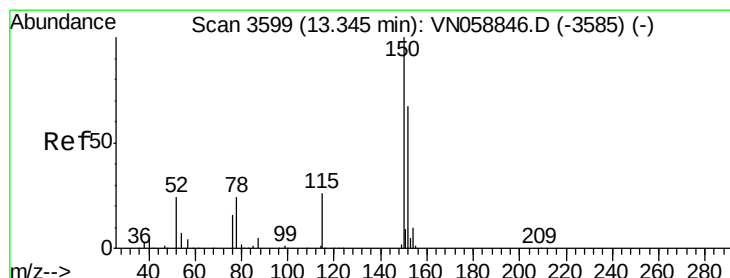
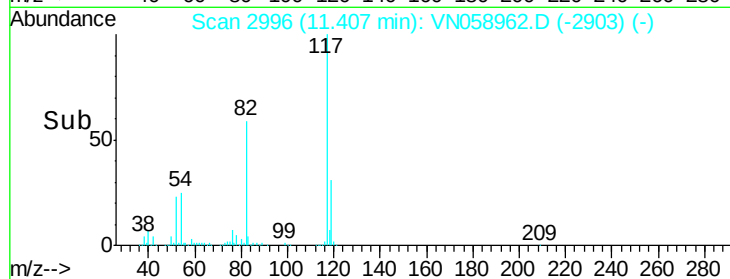
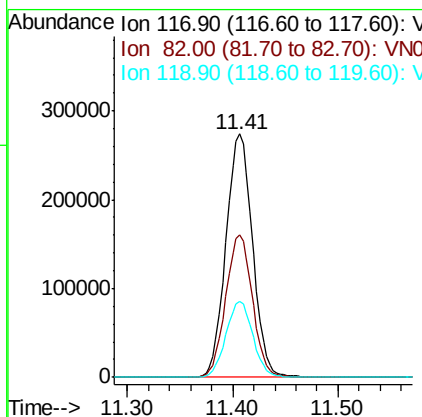
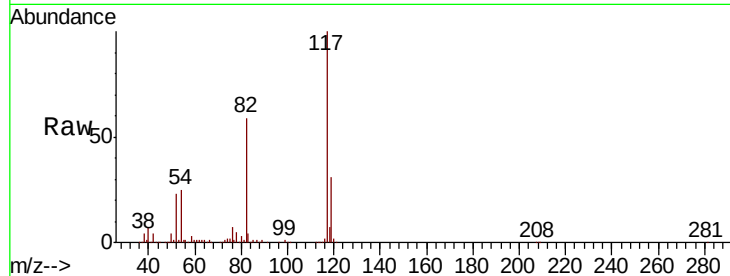
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN058962.D  
Acq: 24 Oct 2019 15:34

Instrument :  
MSVOA\_N  
ClientSampleId :  
KY038PS037-191021

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 58.8  | 46.6  | 69.8  |
| 119     | 31.3  | 25.6  | 38.4  |

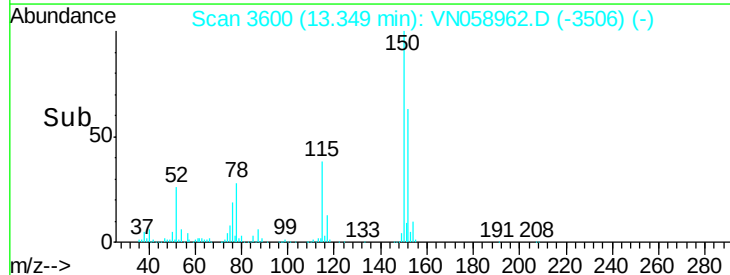
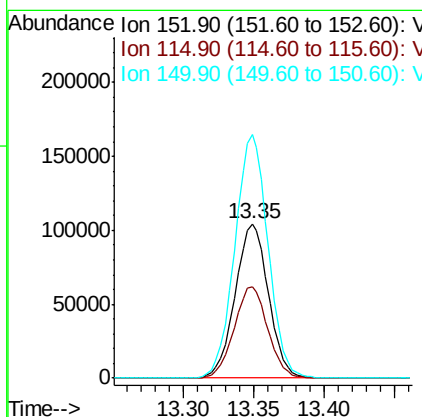
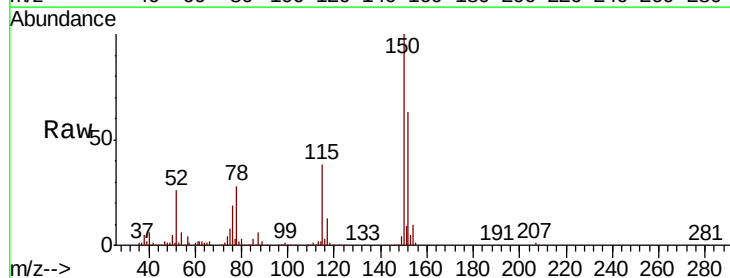
Manual Integrations  
APPROVED

MMDadoda  
10/26/2019 1:16:09 AM

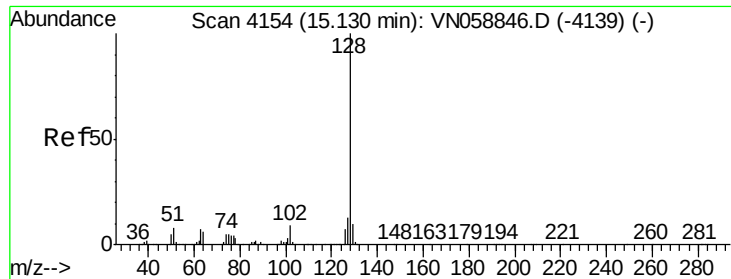


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3600  
Delta R.T. 0.00 min  
Lab File: VN058962.D  
Acq: 24 Oct 2019 15:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.9  | 30.5  | 91.5  |
| 150     | 157.2 | 0.0   | 344.4 |







#95  
 Naphthalene  
 Concen: 2.846 ug/l  
 RT: 15.13 min Scan# 4155  
 Delta R.T. 0.00 min  
 Lab File: VN058962.D  
 Acq: 24 Oct 2019 15:34

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 KY038PS037-191021

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 11.1  | 10.2  | 15.2  |
| 129     | 11.5  | 8.4   | 12.6  |

Manual Integrations  
 APPROVED

MMDadoda  
 10/26/2019 1:16:09 AM

