

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\  
 Data File : VL036275.D  
 Acq On : 28 Jan 2021 17:22  
 Operator : SY/AP  
 Sample : M1245-01 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SS-1

Manual Integrations  
 APPROVED

MMDadoda  
 2/1/2021 1:52:07 PM

Quant Time: Jan 29 02:57:34 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Jan 14 16:13:38 2021  
 QLast Update : Thu Jan 14 16:13:38 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1618027  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3485891  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 3158417  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2650391  | 10.14    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.40% |

| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 3) Chlorodifluoromethane   | 2.98  | 51   | 23752    | 0.120   | ppbv   | 96     |
| 4) Chloromethane           | 3.14  | 50   | 19572m   | 0.199   | ppbv   |        |
| 9) Propene                 | 3.02  | 41   | 19202m   | 0.203   | ppbv   |        |
| 10) Heptane                | 8.11  | 43   | 71640    | 0.305   | ppbv   | 95     |
| 13) Ethanol                | 3.61  | 45   | 4319494  | 290.701 | ppbv   | 85     |
| 15) Acetone                | 3.84  | 43   | 7492957  | 37.812  | ppbv   | 98     |
| 17) tert-Butyl alcohol     | 4.29  | 59   | 5014409  | 30.665  | ppbv   | 100    |
| 20) Methylene Chloride     | 4.34  | 84   | 33705    | 0.533   | ppbv # | 73     |
| 26) Hexane                 | 5.68  | 57   | 138446   | 0.836   | ppbv # | 63     |
| 30) Cyclohexane            | 7.12  | 84   | 31179m   | 0.246   | ppbv   |        |
| 36) Benzene                | 6.88  | 78   | 83906    | 0.263   | ppbv # | 92     |
| 44) 2,2,4-Trimethylpentane | 7.86  | 57   | 102743m  | 0.175   | ppbv   |        |
| 53) Toluene                | 9.80  | 91   | 848919   | 2.376   | ppbv   | 98     |
| 58) Ethyl Benzene          | 12.70 | 91   | 143106   | 0.305   | ppbv   | 97     |
| 59) m/p-Xylene             | 12.96 | 91   | 490069m  | 1.217   | ppbv   |        |
| 60) o-Xylene               | 13.68 | 91   | 156730m  | 0.404   | ppbv   |        |
| 74) 1,2,4-Trimethylbenzene | 16.76 | 105  | 76398m   | 0.178   | ppbv   |        |

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

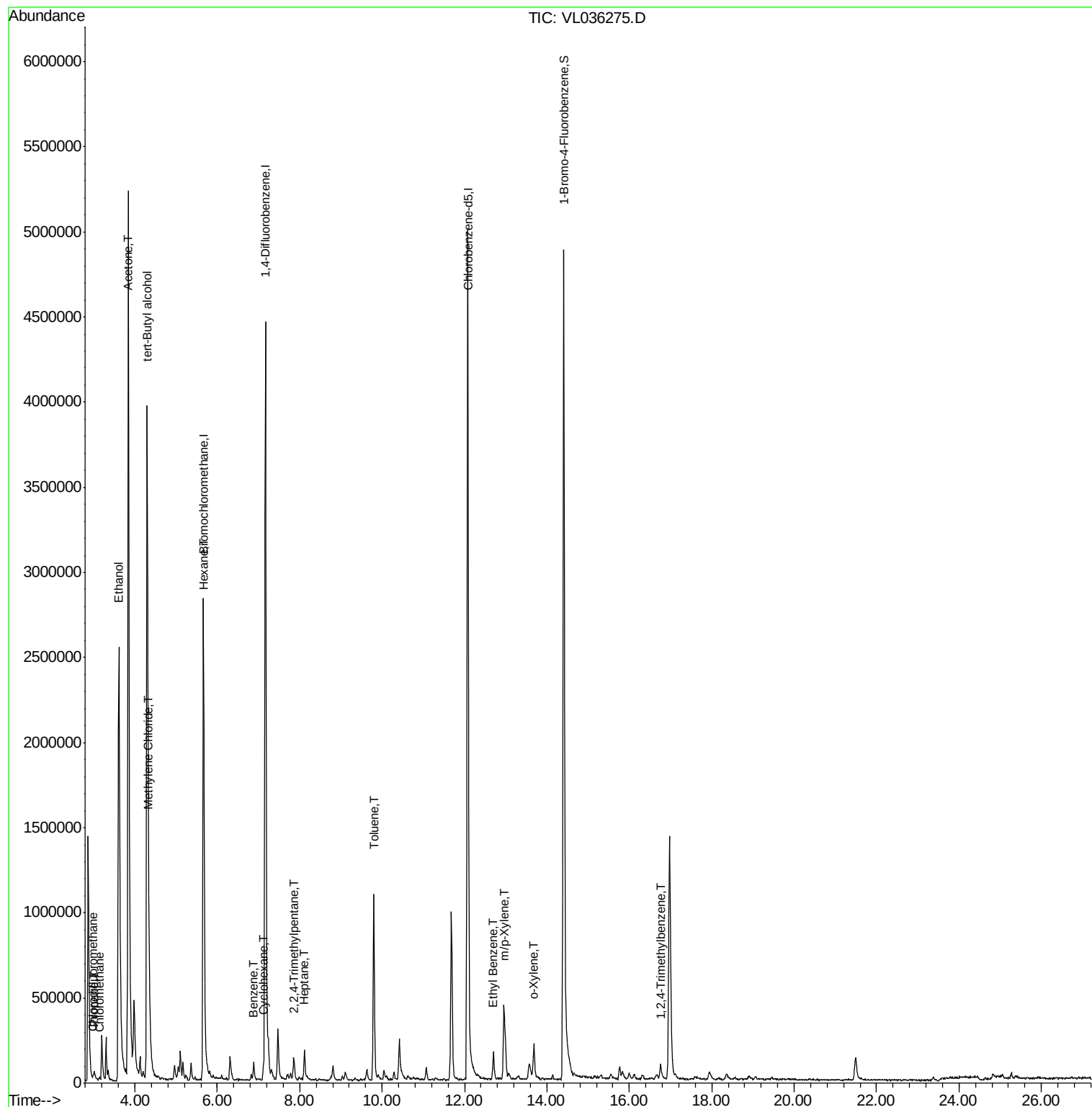
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\  
Data File : VL036275.D  
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Operator : SY/AP  
Sample : M1245-01 10X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

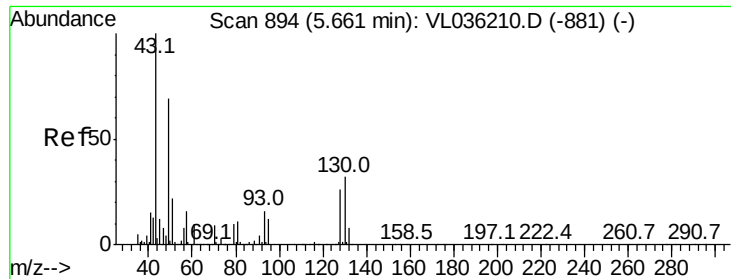
Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-1

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Quant Time: Jan 29 02:57:34 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Jan  
QLast Update : Thu Jan 14 16:13:38 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL036275.D

Acq: 28 Jan 2021 17:22

Instrument :

MSVOA\_L

ClientSampled :

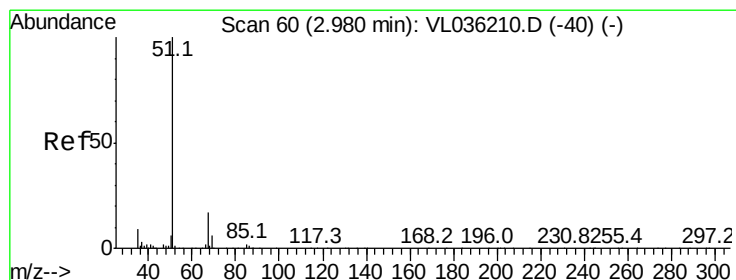
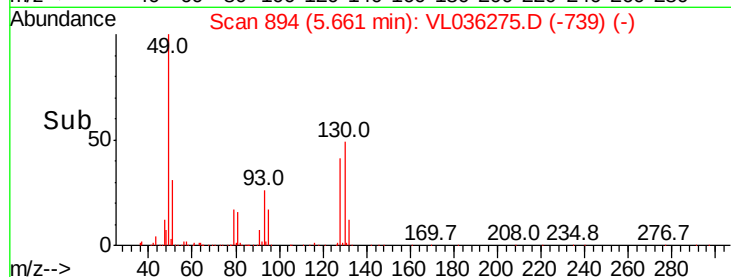
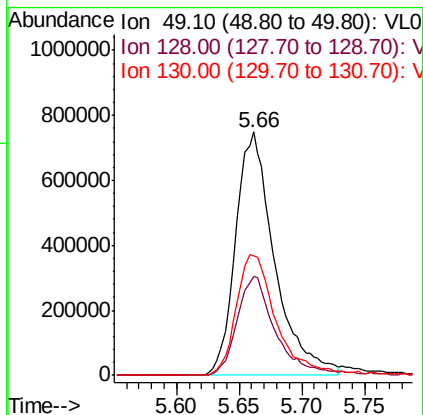
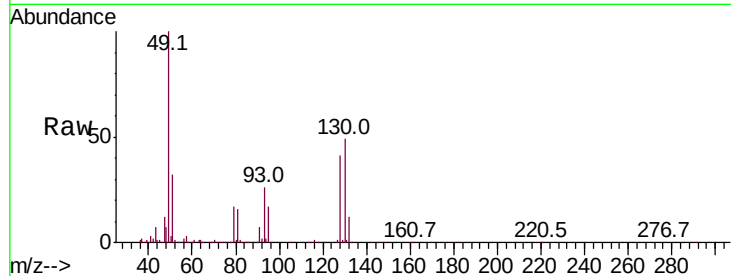
SS-1

Tot Ion: 49 Resp: 1618027

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 40.7  | 20.1  | 60.2  |
| 130 | 52.4  | 25.3  | 75.9  |

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#3

Chlorodifluoromethane

Concen: 0.120 ppbv

RT: 2.98 min Scan# 59

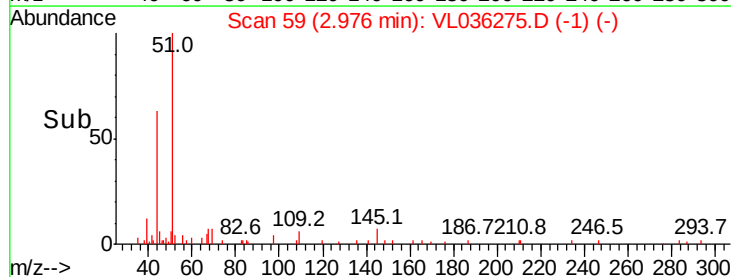
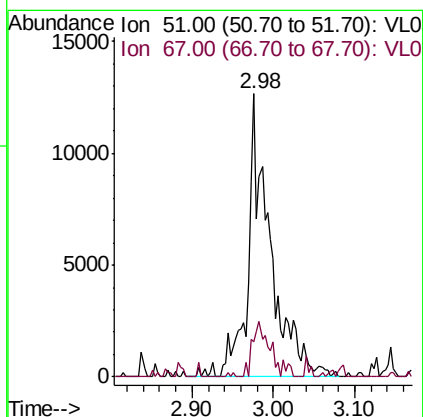
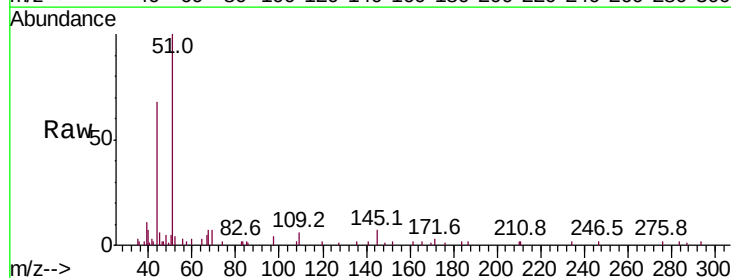
Delta R.T. -0.00 min

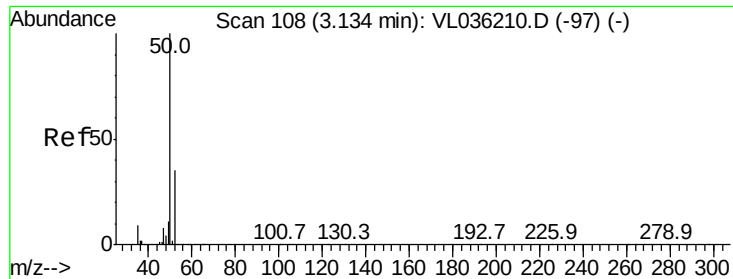
Lab File: VL036275.D

Acq: 28 Jan 2021 17:22

Tgt Ion: 51 Resp: 23752

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 51  | 100   |       |       |
| 67  | 15.9  | 14.0  | 21.0  |





#4

Chloromethane

Concen: 0.199 ppbv m

RT: 3.14 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL036275.D

Acq: 28 Jan 2021 17:22

Instrument :

MSVOA\_L

ClientSampleId :

SS-1

Tot Ion: 50 Resp: 19572

Ion Ratio Lower Upper

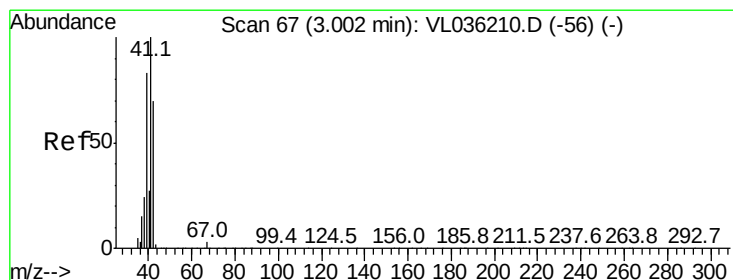
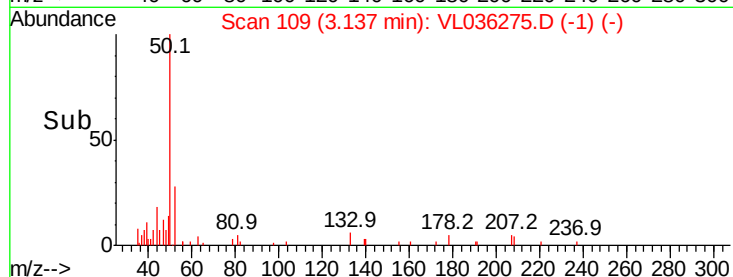
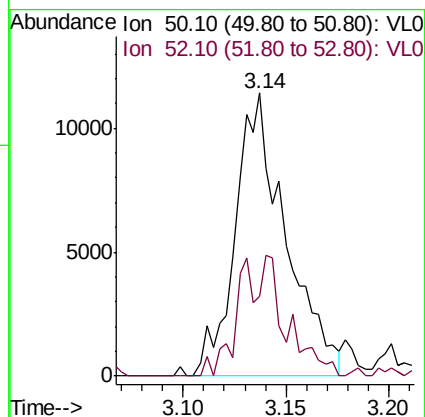
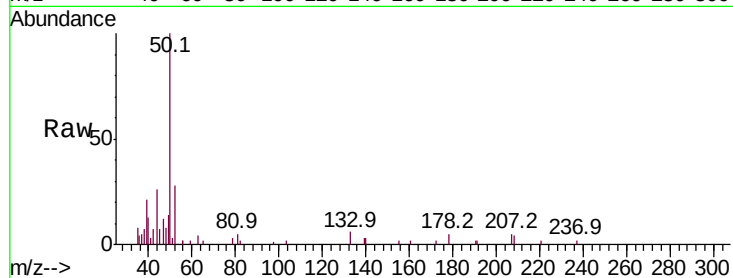
50 100

52 28.4 27.8 41.8

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#9

Propene

Concen: 0.203 ppbv m

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036275.D

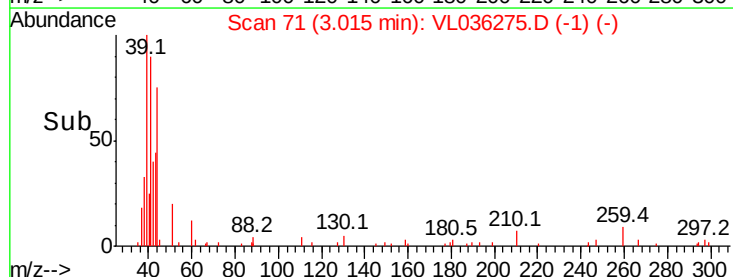
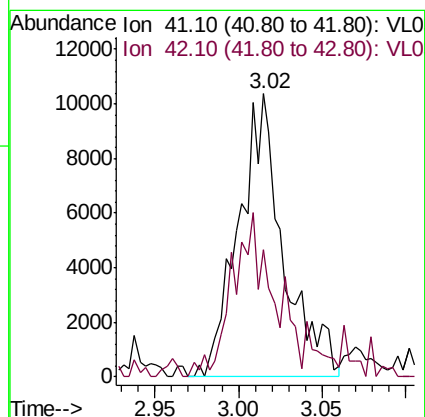
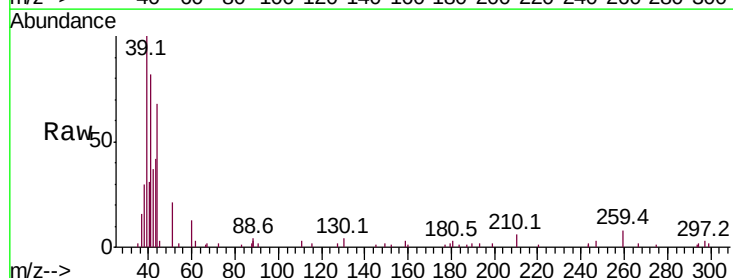
Acq: 28 Jan 2021 17:22

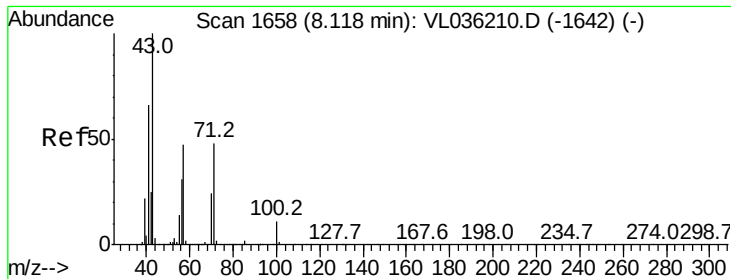
Tgt Ion: 41 Resp: 19202

Ion Ratio Lower Upper

41 100

42 38.0 57.1 85.7#





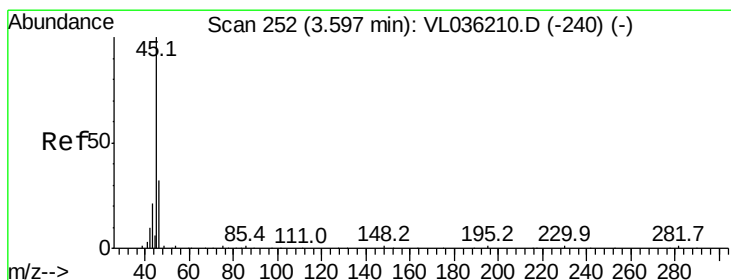
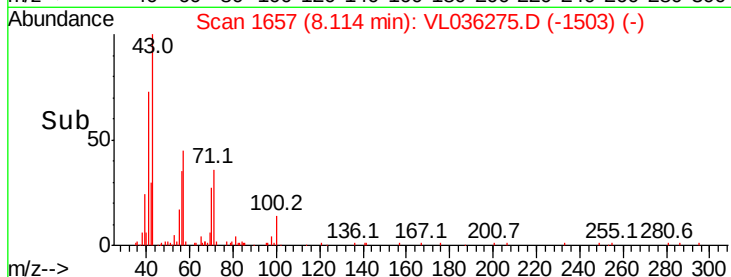
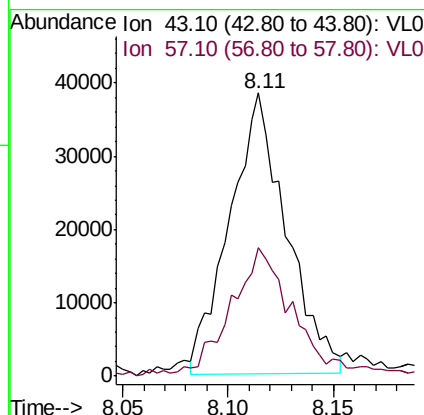
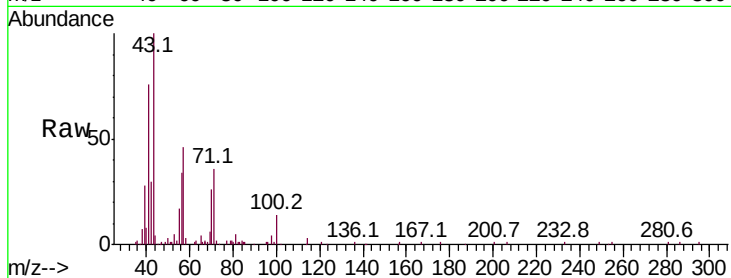
#10  
Heptane  
Concen: 0.305 ppbv  
RT: 8.11 min Scan# 1657  
Delta R.T. -0.00 min  
Lab File: VL036275.D  
Acq: 28 Jan 2021 17:22

Instrument :  
MSVOA\_L  
ClientSampled :  
SS-1

Tot Ion: 43 Resp: 71640  
Ion Ratio Lower Upper  
43 100  
57 51.3 38.1 57.1

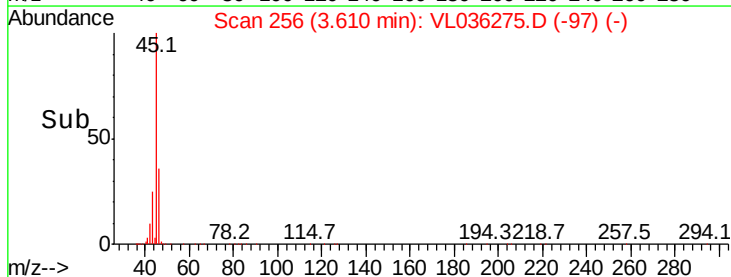
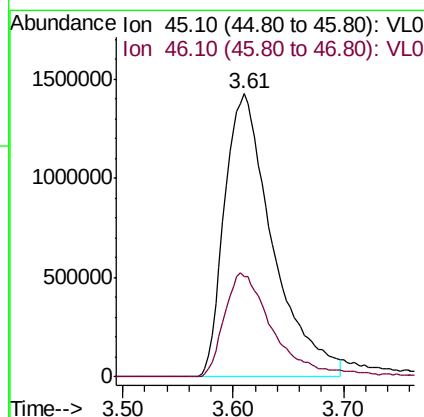
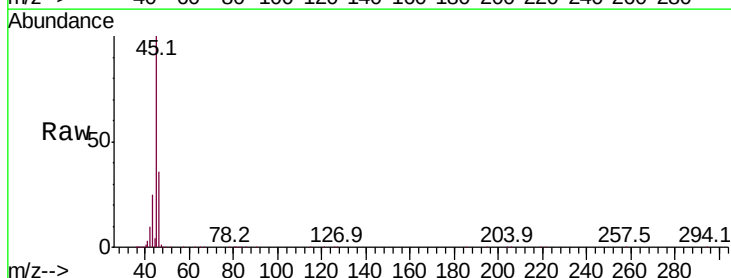
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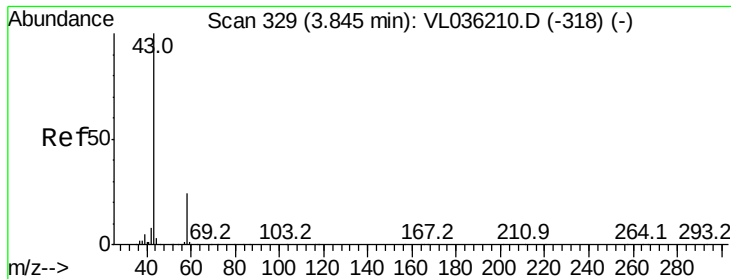
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#13  
Ethanol  
Concen: 290.701 ppbv  
RT: 3.61 min Scan# 256  
Delta R.T. 0.01 min  
Lab File: VL036275.D  
Acq: 28 Jan 2021 17:22

Tgt Ion: 45 Resp: 4319494  
Ion Ratio Lower Upper  
45 100  
46 38.0 19.2 77.0





#15

Acetone

Concen: 37.812 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL036275.D

Acq: 28 Jan 2021 17:22

Instrument :

MSVOA\_L

ClientSampleId :

SS-1

Tot Ion: 43 Resp: 7492957

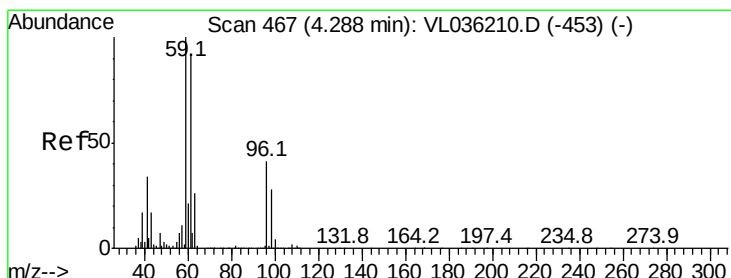
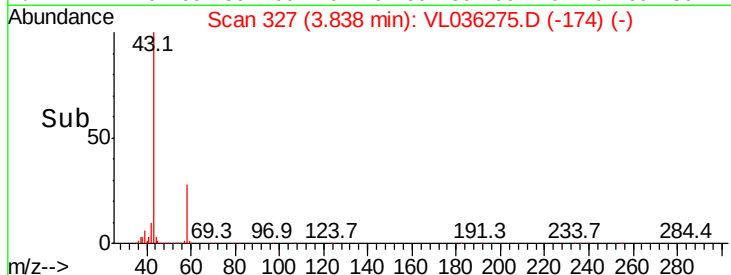
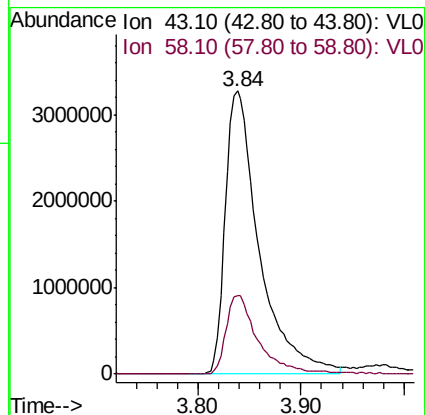
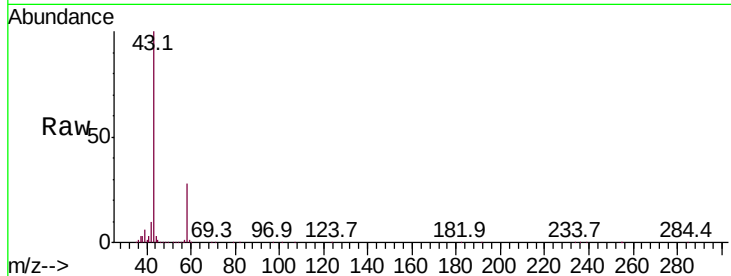
Ion Ratio Lower Upper

43 100

58 27.3 20.9 31.3

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#17

tert-Butyl alcohol

Concen: 30.665 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.01 min

Lab File: VL036275.D

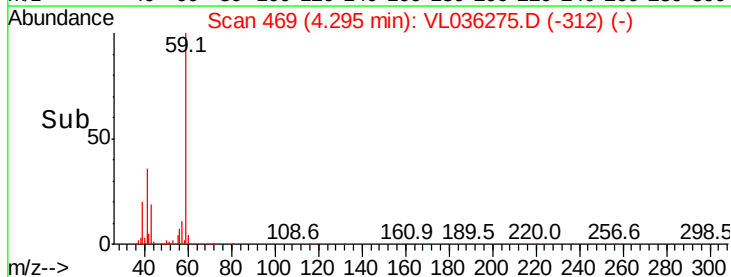
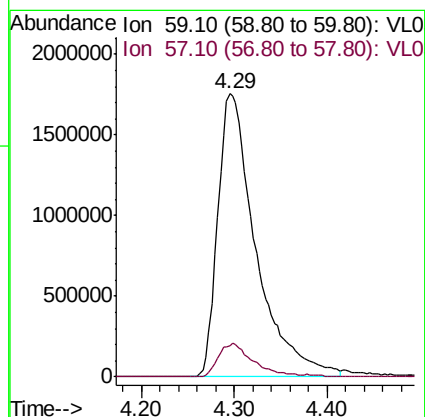
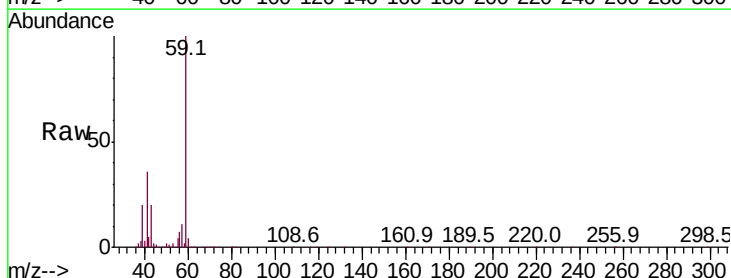
Acq: 28 Jan 2021 17:22

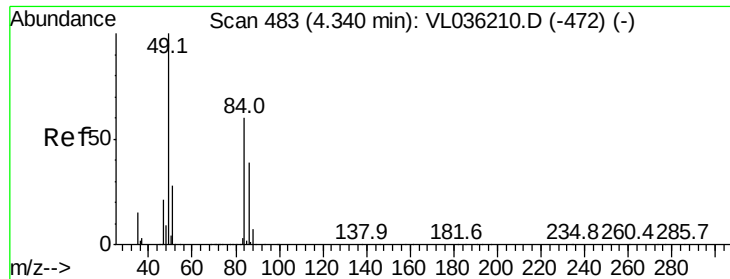
Tgt Ion: 59 Resp: 5014409

Ion Ratio Lower Upper

59 100

57 11.5 9.2 13.8





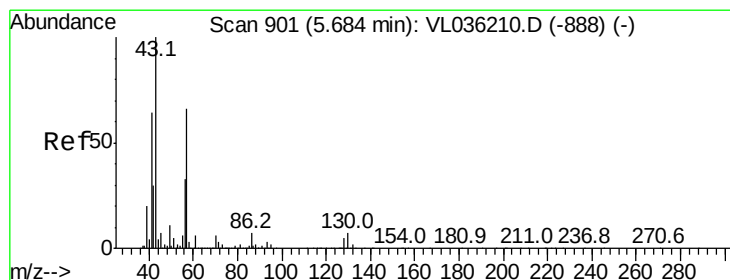
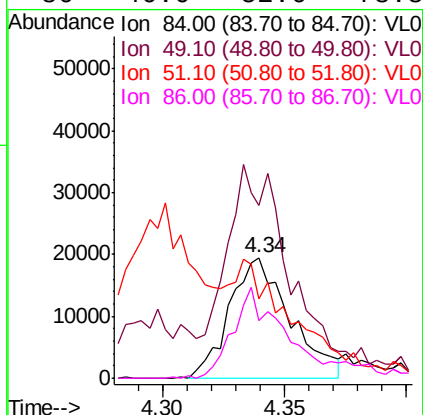
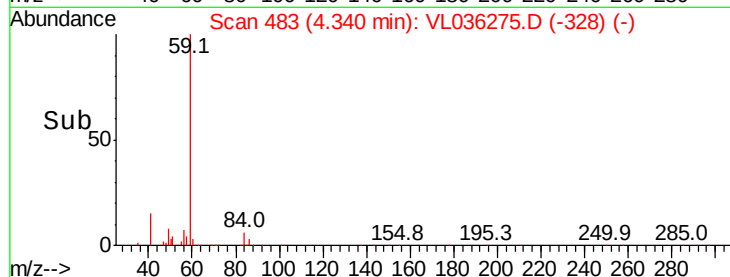
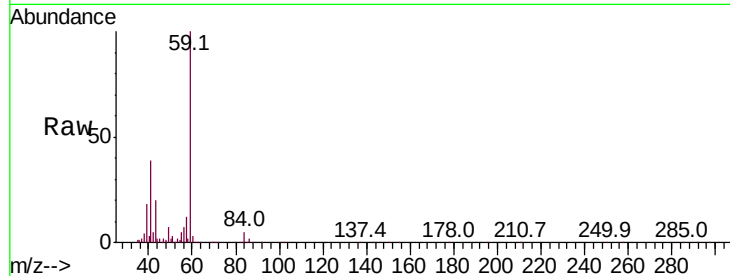
#20  
Methvlene Chloride  
Concen: 0.533 ppbv  
RT: 4.34 min Scan# 483  
Delta R.T. -0.00 min  
Lab File: VL036275.D  
Acq: 28 Jan 2021 17:22

Instrument :  
MSVOA\_L  
ClientSampled :  
SS-1

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 84      | 100   |       |        |
| 49      | 120.8 | 134.1 | 201.1# |
| 51      | 44.9  | 37.4  | 56.0   |
| 86      | 46.0  | 52.6  | 78.8#  |

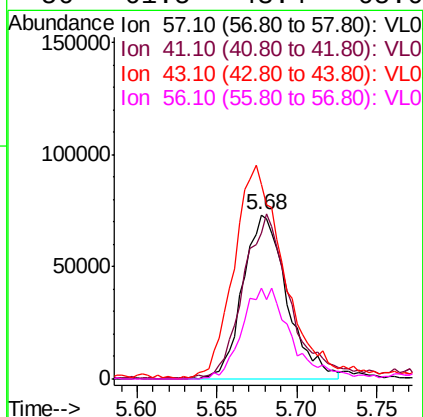
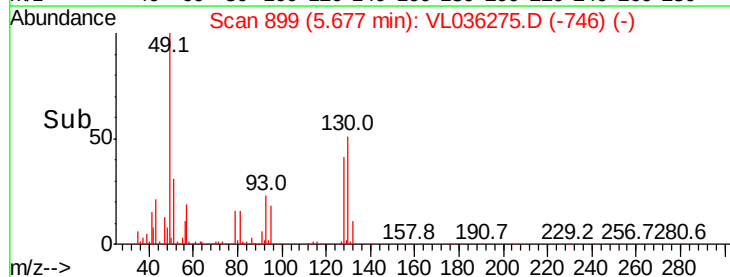
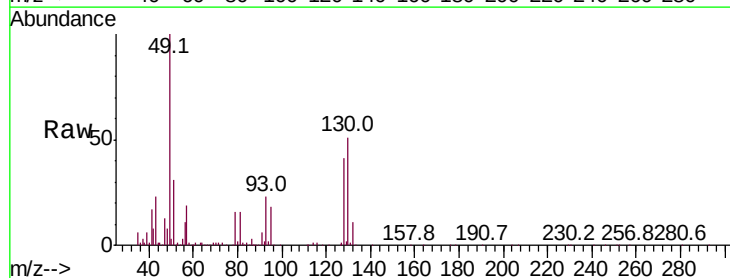
Manual Integrations  
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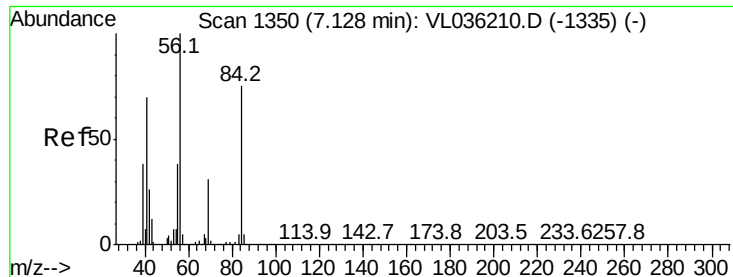
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#26  
Hexane  
Concen: 0.836 ppbv  
RT: 5.68 min Scan# 899  
Delta R.T. -0.01 min  
Lab File: VL036275.D  
Acq: 28 Jan 2021 17:22

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 57      | 100   |       |        |
| 41      | 107.4 | 83.0  | 124.6  |
| 43      | 155.0 | 202.4 | 303.6# |
| 56      | 61.5  | 43.4  | 65.0   |





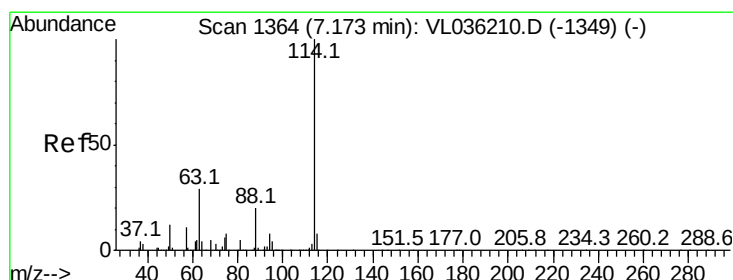
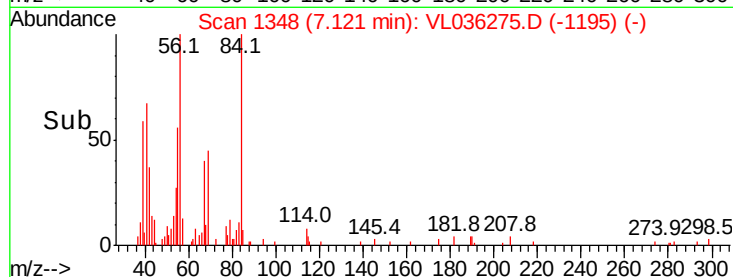
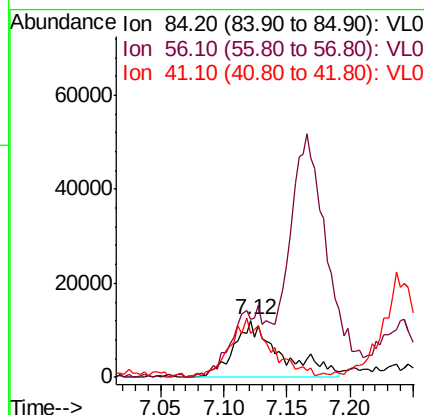
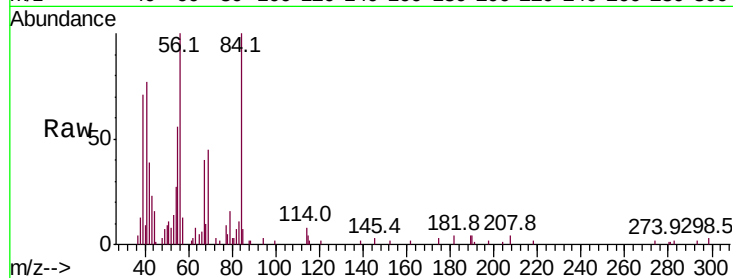
#30  
Cvclohexane  
Concen: 0.246 ppbv m  
RT: 7.12 min Scan# 1348  
Delta R.T. -0.01 min  
Lab File: VL036275.D  
Acq: 28 Jan 2021 17:22

Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-1

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 84      | 100   |       |        |
| 56      | 0.0   | 119.4 | 179.0# |
| 41      | 0.0   | 79.4  | 119.0# |

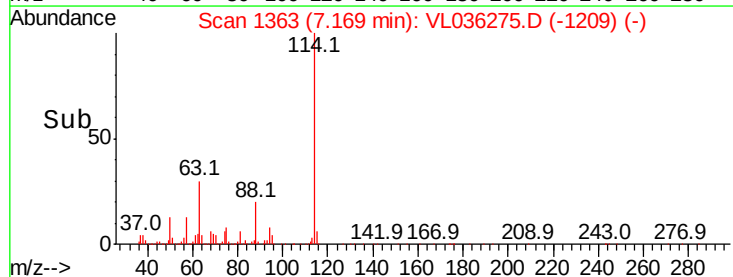
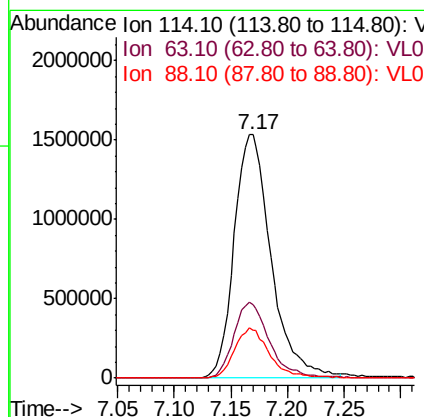
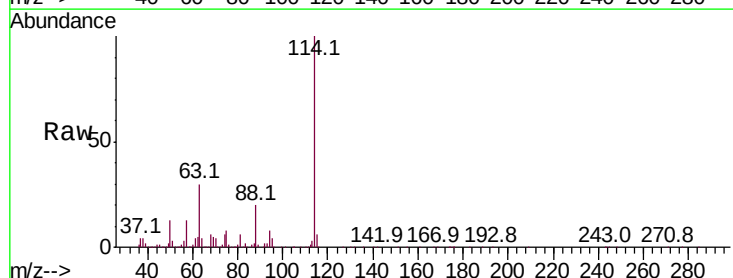
Manual Integrations  
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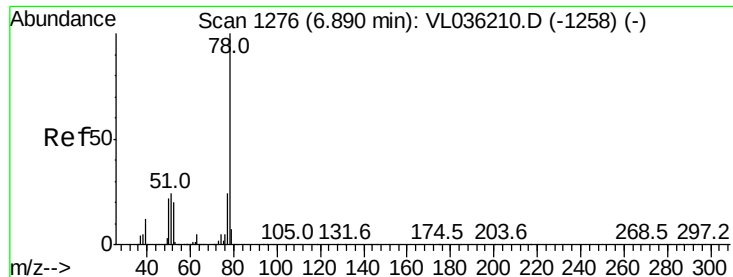


#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.17 min Scan# 1363  
Delta R.T. -0.00 min  
Lab File: VL036275.D  
Acq: 28 Jan 2021 17:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 30.4  | 24.7  | 37.1  |
| 88      | 19.7  | 16.6  | 24.8  |







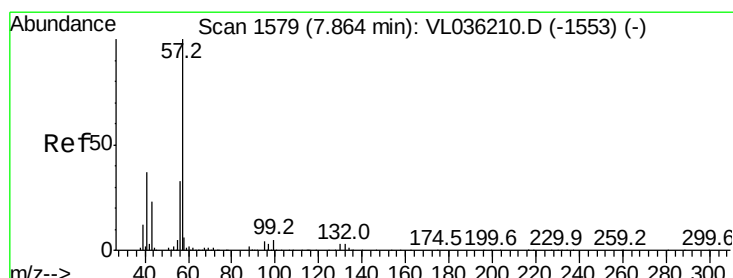
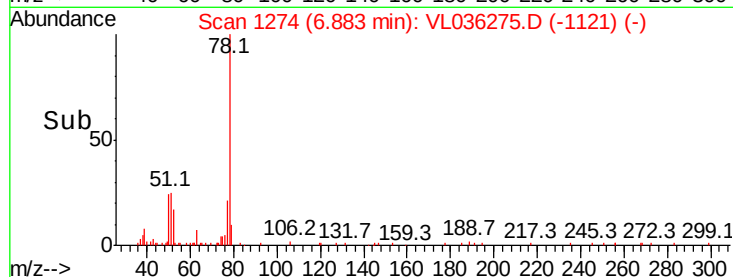
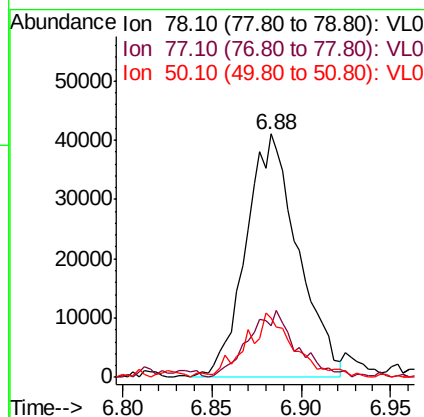
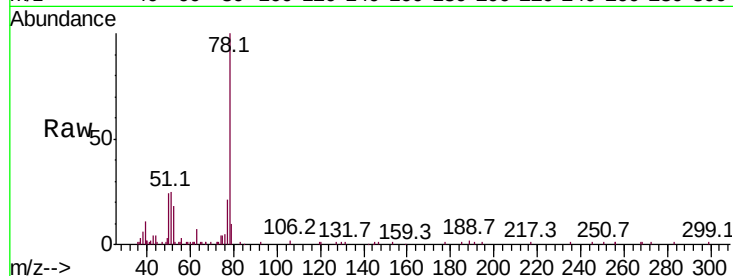
#36  
Benzene  
Concen: 0.263 ppbv  
RT: 6.88 min Scan# 1274  
Delta R.T. -0.01 min  
Lab File: VL036275.D  
Acq: 28 Jan 2021 17:22

Instrument :  
MSVOA\_L  
ClientSampled :  
SS-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 19.0  | 19.4  | 29.0# |
| 50      | 24.4  | 17.4  | 26.2  |

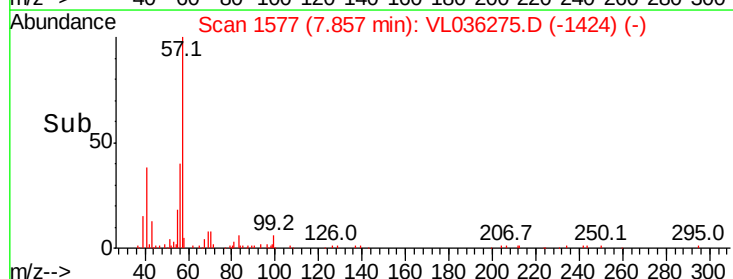
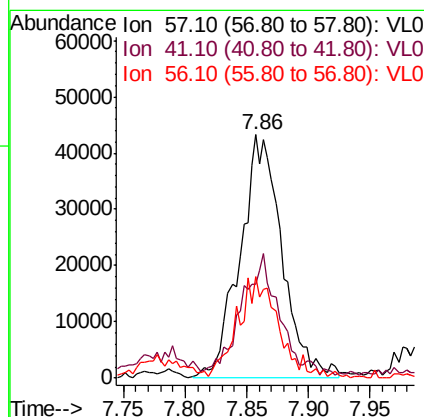
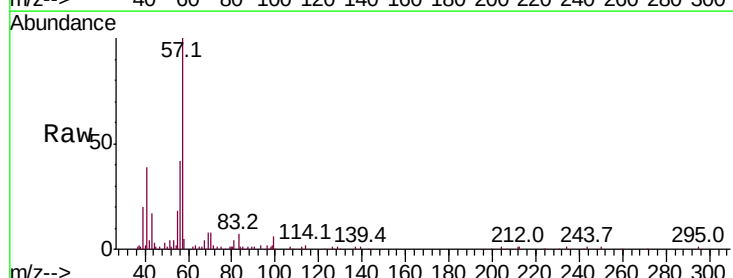
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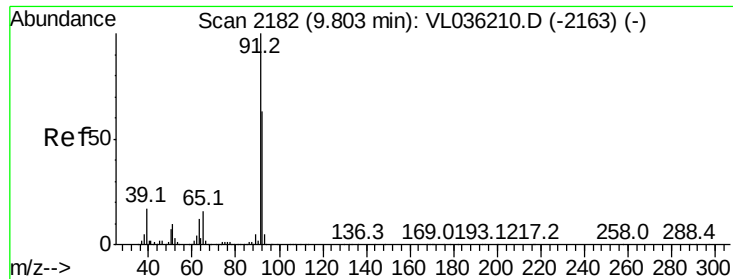
MMDadoda  
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#44  
2,2,4-Trimethylpentane  
Concen: 0.175 ppbv m  
RT: 7.86 min Scan# 1577  
Delta R.T. -0.01 min  
Lab File: VL036275.D  
Acq: 28 Jan 2021 17:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 0.0   | 28.5  | 42.7# |
| 56      | 41.4  | 25.5  | 38.3# |





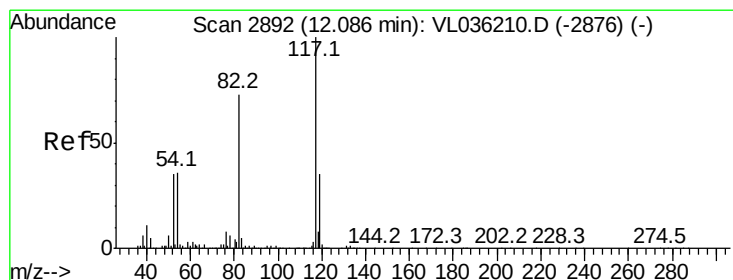
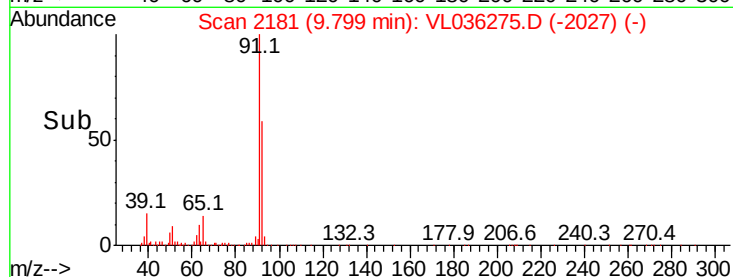
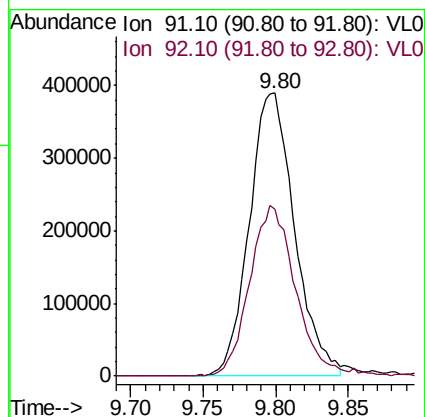
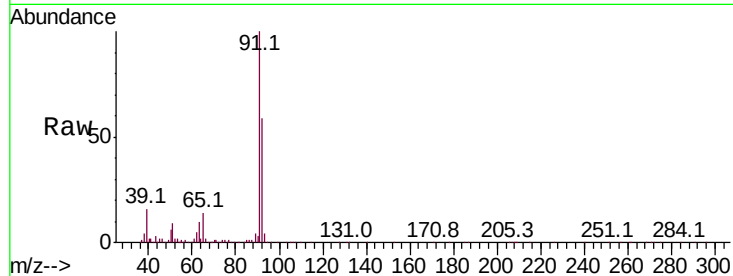
#53  
Toluene  
Concen: 2.376 ppbv  
RT: 9.80 min Scan# 2181  
Delta R.T. -0.00 min  
Lab File: VL036275.D  
Acq: 28 Jan 2021 17:22

Instrument :  
MSVOA\_L  
ClientSampled :  
SS-1

Tot Ion: 91 Resp: 848919  
Ion Ratio Lower Upper  
91 100  
92 61.9 48.5 72.7

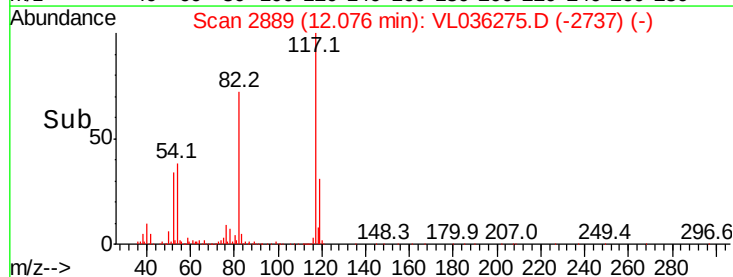
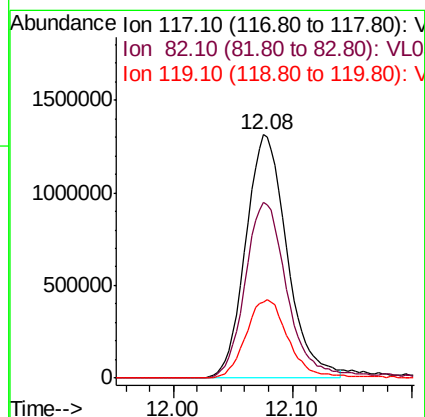
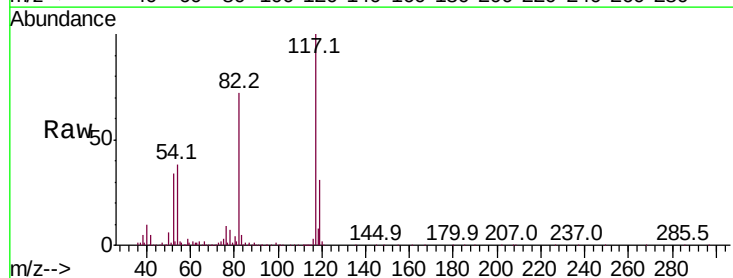
Manual Integrations  
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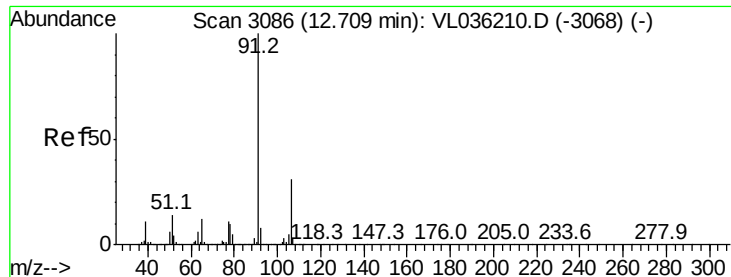
MMDadoda  
2/1/2021 1:52:07 PM



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.08 min Scan# 2889  
Delta R.T. -0.01 min  
Lab File: VL036275.D  
Acq: 28 Jan 2021 17:22

Tgt Ion: 117 Resp: 3158417  
Ion Ratio Lower Upper  
117 100  
82 75.1 59.7 89.5  
119 33.8 28.6 43.0





#58

Ethyl Benzene

Concen: 0.305 ppbv

RT: 12.70 min Scan# 3084

Delta R.T. -0.01 min

Lab File: VL036275.D

Acq: 28 Jan 2021 17:22

Instrument :

MSVOA\_L

ClientSampled :

SS-1

Tot Ion: 91 Resp: 143106

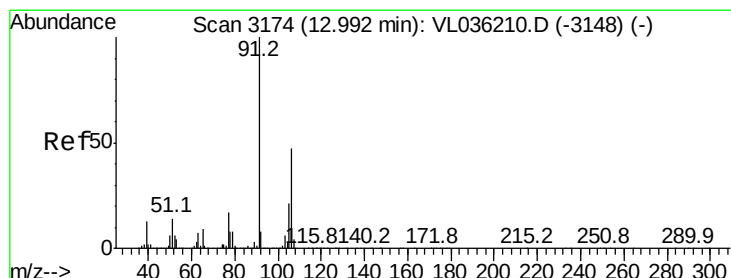
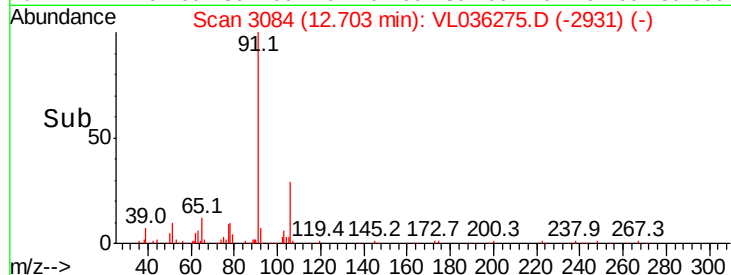
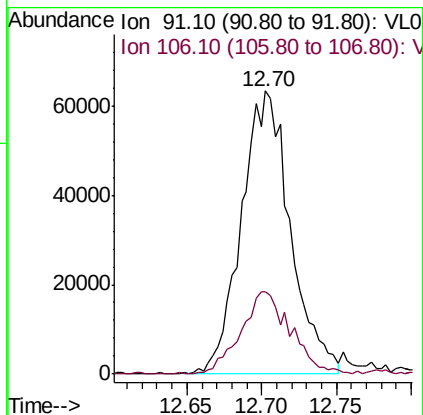
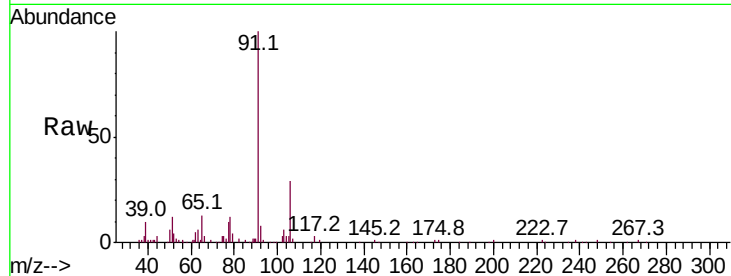
Ion Ratio Lower Upper

91 100

106 29.1 24.8 37.2

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#59

m/p-Xylene

Concen: 1.217 ppbv m

RT: 12.96 min Scan# 3163

Delta R.T. -0.04 min

Lab File: VL036275.D

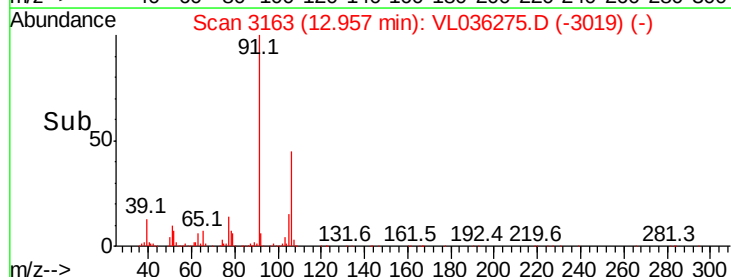
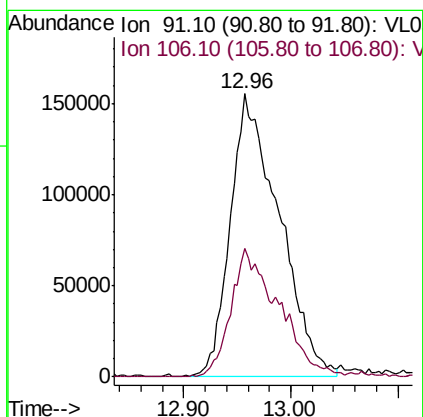
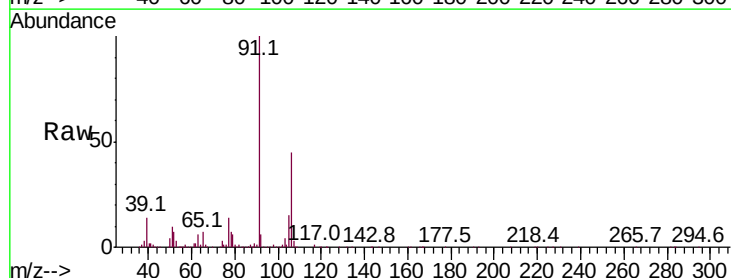
Acq: 28 Jan 2021 17:22

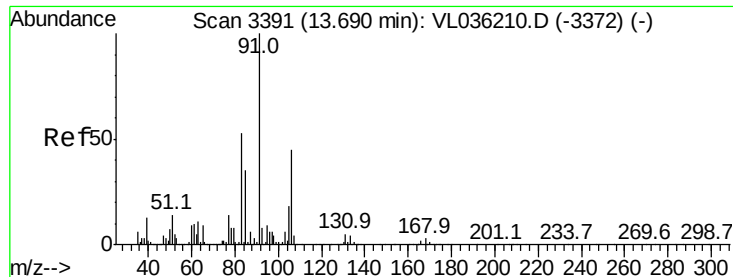
Tgt Ion: 91 Resp: 490069

Ion Ratio Lower Upper

91 100

106 0.0 34.6 51.8#





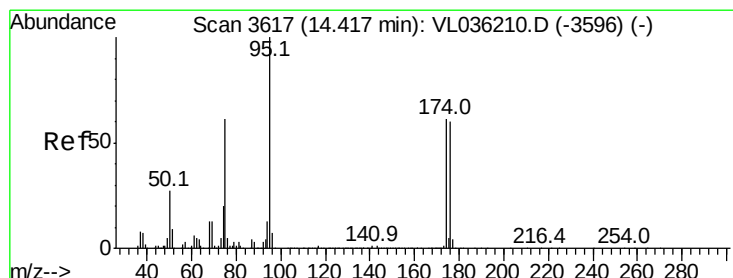
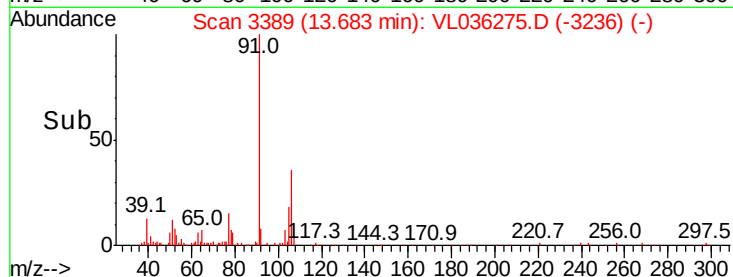
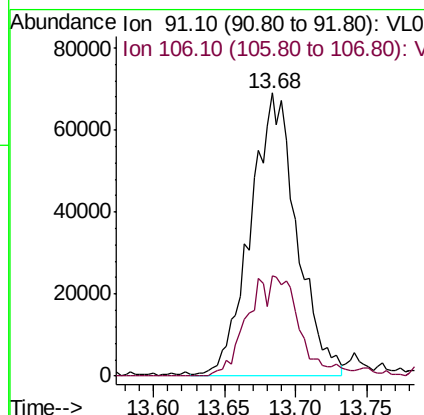
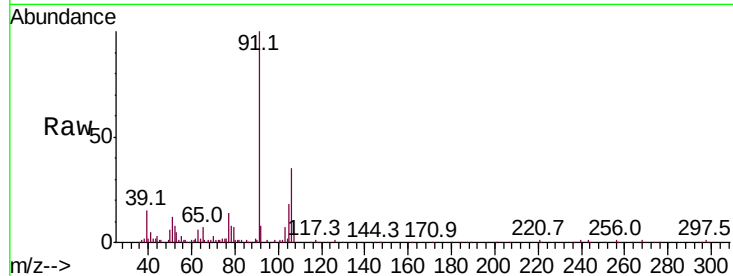
#60  
o-Xylene  
Concen: 0.404 ppbv m  
RT: 13.68 min Scan# 3389  
Delta R.T. -0.01 min  
Lab File: VL036275.D  
Acq: 28 Jan 2021 17:22

Instrument :  
MSVOA\_L  
ClientSampled :  
SS-1

Tot Ion: 91 Resp: 156730  
Ion Ratio Lower Upper  
91 100  
106 40.7 21.9 65.8

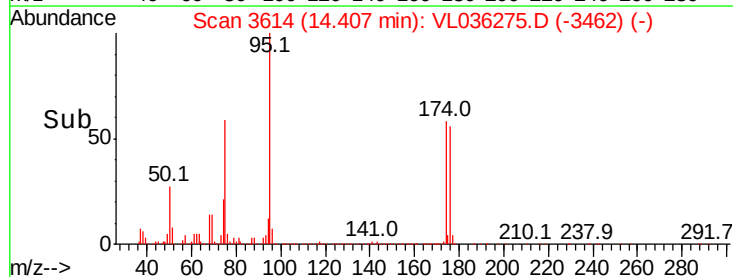
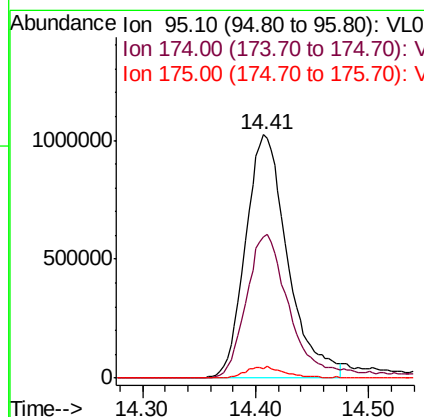
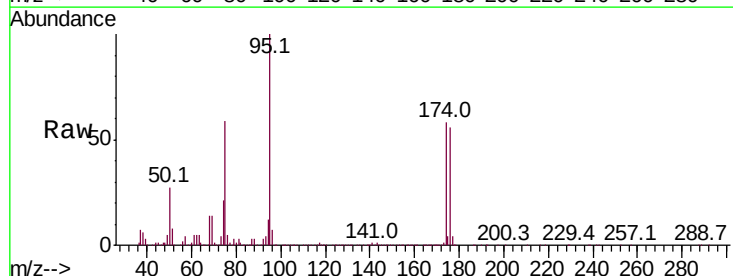
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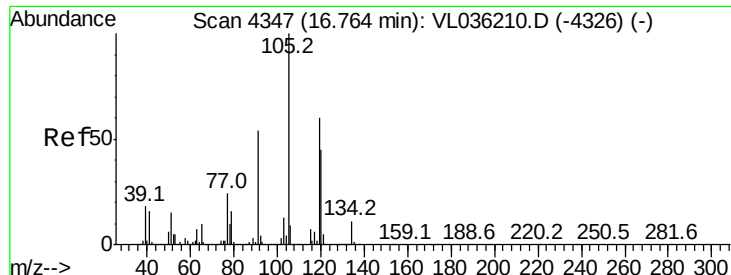
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#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.138 ppbv  
RT: 14.41 min Scan# 3614  
Delta R.T. -0.01 min  
Lab File: VL036275.D  
Acq: 28 Jan 2021 17:22

Tgt Ion: 95 Resp: 2650391  
Ion Ratio Lower Upper  
95 100  
174 64.4 49.4 74.0  
175 4.8 3.8 5.8





#74

1,2,4-Trimethylbenzene

Concen: 0.178 ppbv m

RT: 16.76 min Scan# 4347

Delta R.T. -0.00 min

Lab File: VL036275.D

Acq: 28 Jan 2021 17:22

Instrument :

MSVOA\_L

ClientSampleId :

SS-1

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 105     | 100   |            |       |
| 120     | 35.3  | 36.2       | 54.2# |
| 91      | 12.9  | 43.3       | 64.9# |
| 77      | 10.7  | 19.1       | 28.7# |

Manual Integrations  
APPROVED

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2/1/2021 1:52:07 PM

