

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX060820\  
 Data File : VX016644.D  
 Acq On : 08 Jun 2020 17:57  
 Operator : JC/SP  
 Sample : PB129340ZHE#11  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB129340ZHE#11

Quant Time: Jun 09 05:47:25 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052720W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 27 16:31:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 221826   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 359953   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 364316   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 184110   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 132223   | 48.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.00%  |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 109225   | 49.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.56%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 447173   | 51.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.68% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 178276   | 53.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.96% |          |

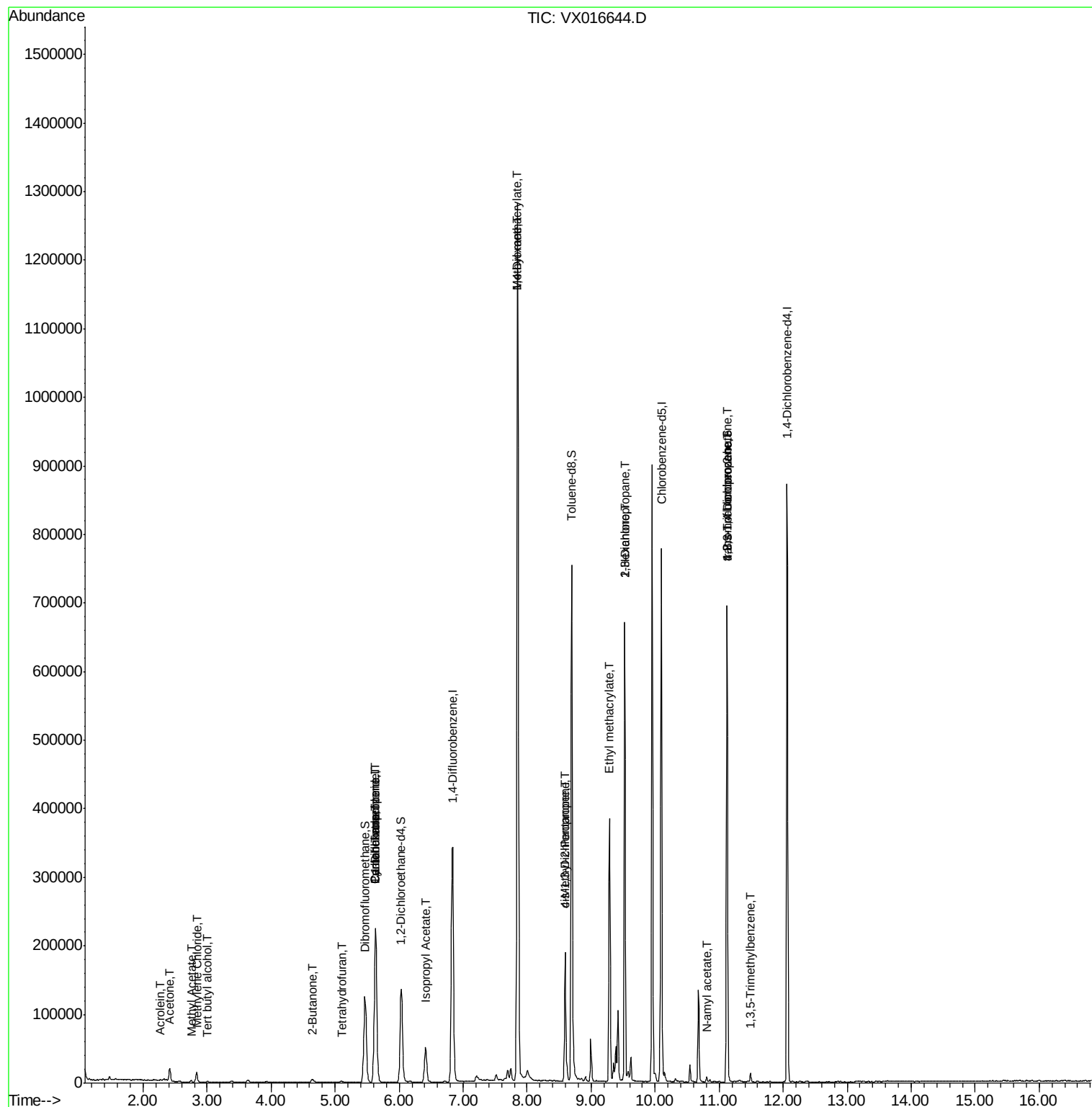
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 11) Tert butyl alcohol         | 3.00  | 59   | 900      | 1.27  | ug/l # | 72     |
| 13) Acrolein                   | 2.26  | 56   | 167      | 0.56  | ug/l # | 1      |
| 16) Acetone                    | 2.42  | 43   | 19330    | 16.02 | ug/l   | 98     |
| 18) Methyl Acetate             | 2.75  | 43   | 3165     | 1.02  | ug/l   | 100    |
| 20) Methylene Chloride         | 2.84  | 84   | 6729     | 2.69  | ug/l   | 86     |
| 25) 2-Butanone                 | 4.64  | 43   | 4780     | 2.34  | ug/l   | 91     |
| 29) Tetrahydrofuran            | 5.10  | 42   | 1783     | 1.35  | ug/l   | 94     |
| 31) Cyclohexane                | 5.64  | 56   | 4068     | 1.06  | ug/l # | 16     |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 15335    | 4.50  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 21296    | 5.95  | ug/l # | 17     |
| 43) Isopropyl Acetate          | 6.41  | 43   | 67964    | 10.65 | ug/l   | 98     |
| 48) Methyl methacrylate        | 7.85  | 41   | 105148   | 34.41 | ug/l # | 41     |
| 49) 1,4-Dioxane                | 7.85  | 88   | 211      | 2.95  | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 8.59  | 43   | 66785    | 16.81 | ug/l # | 46     |
| 54) cis-1,3-Dichloropropene    | 8.60  | 75   | 32426    | 7.50  | ug/l # | 59     |
| 56) Ethyl methacrylate         | 9.29  | 69   | 1185     | 0.29  | ug/l # | 1      |
| 57) 1,3-Dichloropropane        | 9.52  | 76   | 5631     | 1.29  | ug/l # | 42     |
| 59) 2-Hexanone                 | 9.52  | 43   | 69265    | 22.41 | ug/l # | 50     |
| 74) N-amyl acetate             | 10.81 | 43   | 3268     | 0.56  | ug/l # | 47     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 88234    | 21.80 | ug/l # | 35     |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 5889     | 0.55  | ug/l   | 98     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 88234    | 53.63 | ug/l # | 14     |

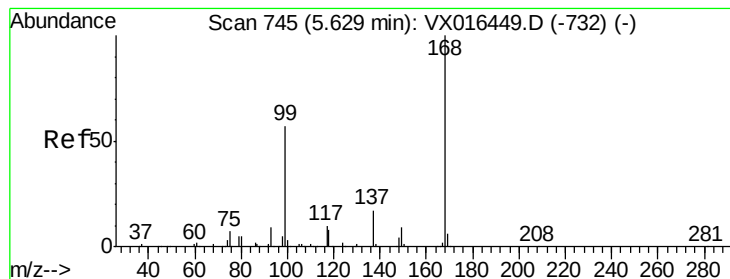
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed May 27 16:31:05 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016644.D

Acq: 08 Jun 2020 17:57

Instrument :

MSVOA\_X

ClientSampleId :

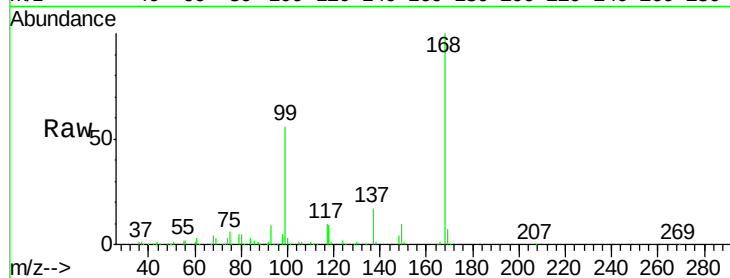
PB129340ZHE#11

Tgt Ion:168 Resp: 221826

Ion Ratio Lower Upper

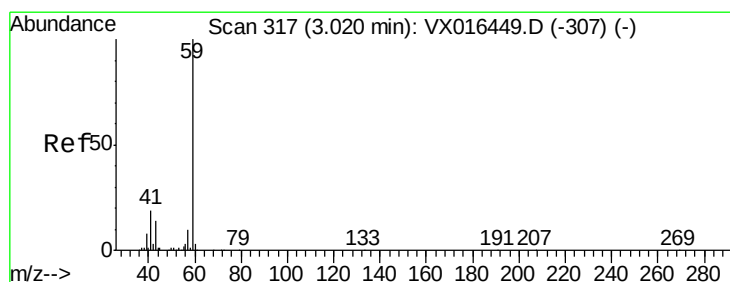
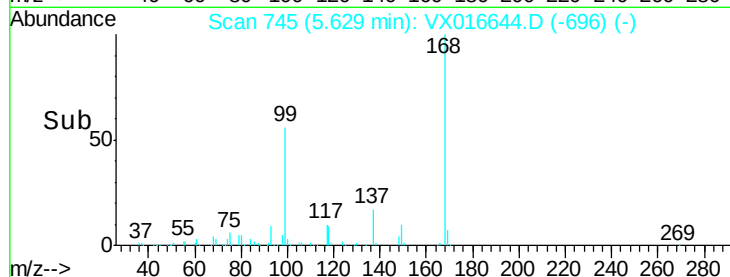
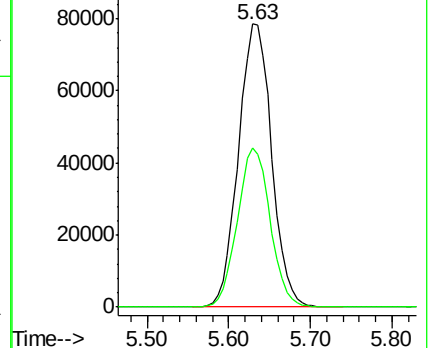
168 100

99 56.4 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 1.27 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX016644.D

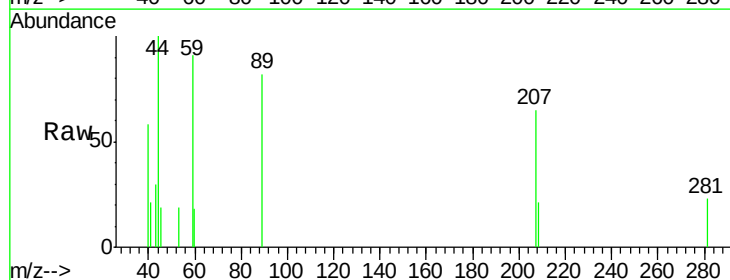
Acq: 08 Jun 2020 17:57

Tgt Ion: 59 Resp: 900

Ion Ratio Lower Upper

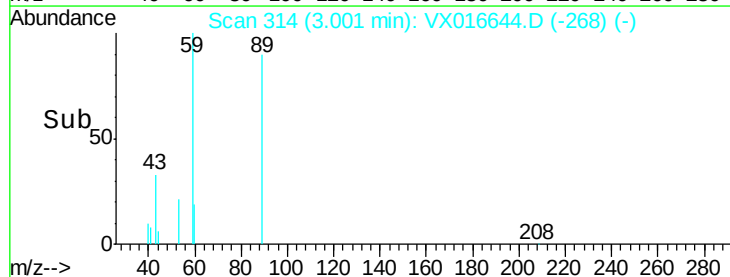
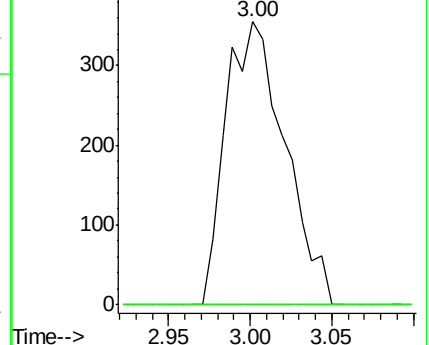
59 100

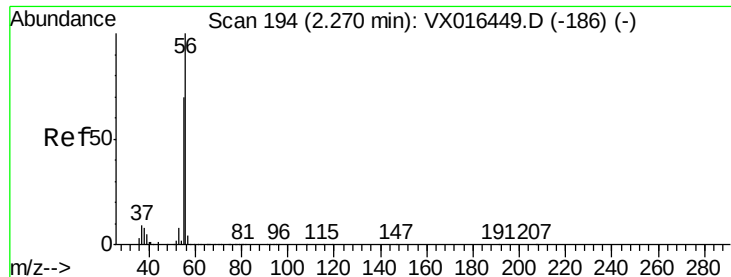
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.56 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX016644.D

Acq: 08 Jun 2020 17:57

Instrument :

MSVOA\_X

ClientSampleId :

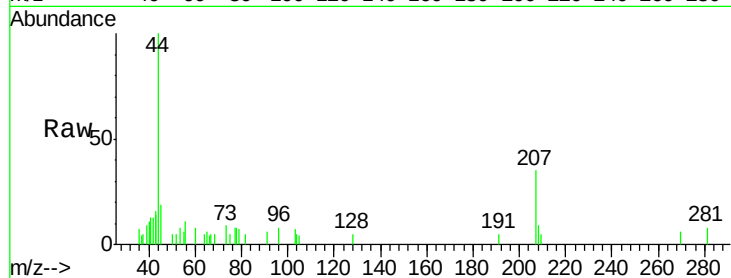
PB129340ZHE#11

Tgt Ion: 56 Resp: 167

Ion Ratio Lower Upper

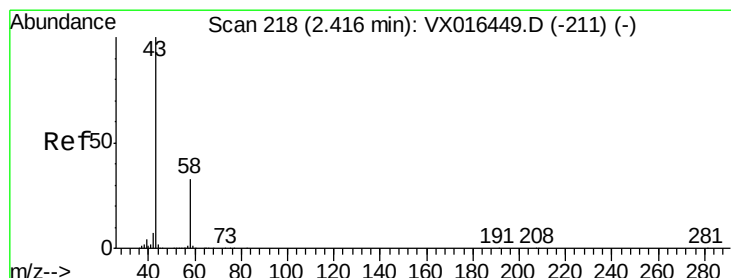
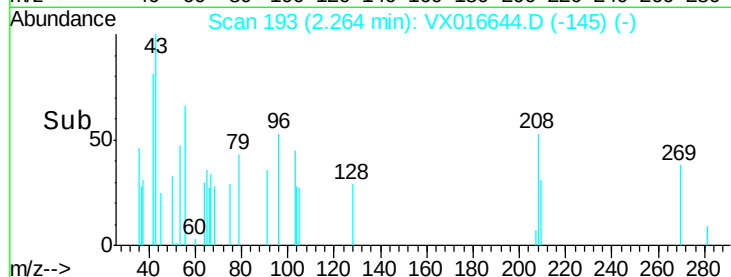
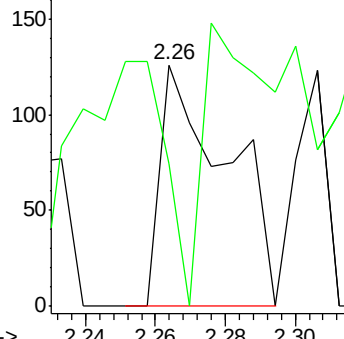
56 100

55 159.9 58.3 87.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 16.02 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016644.D

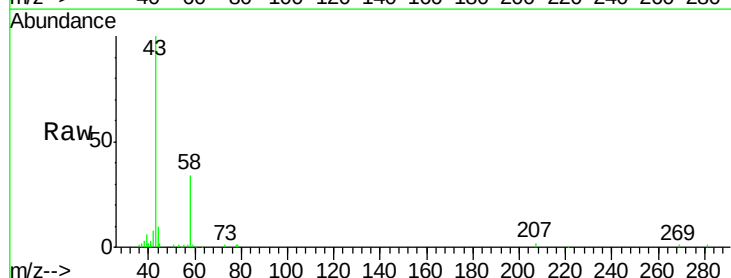
Acq: 08 Jun 2020 17:57

Tgt Ion: 43 Resp: 19330

Ion Ratio Lower Upper

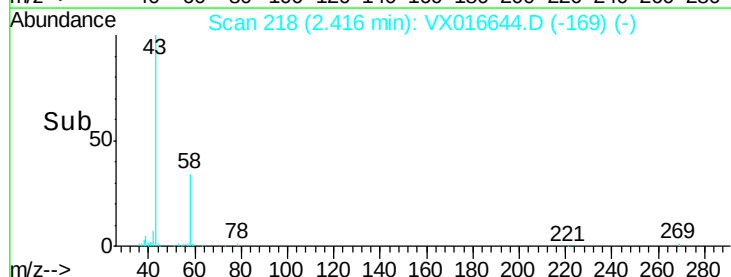
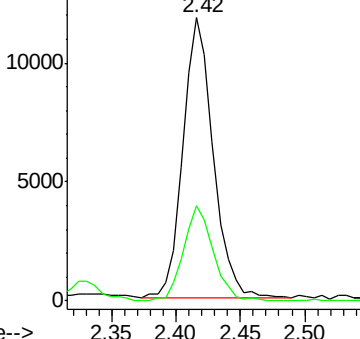
43 100

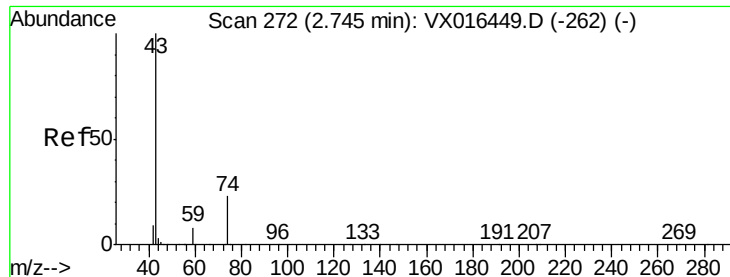
58 33.9 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

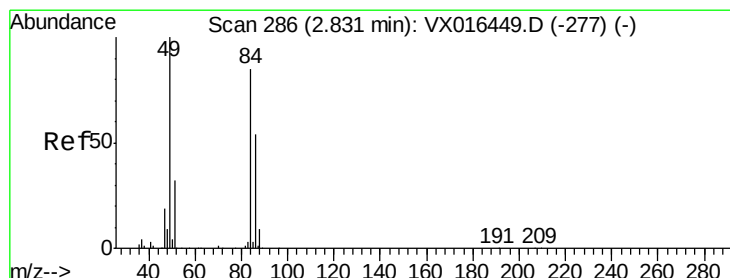
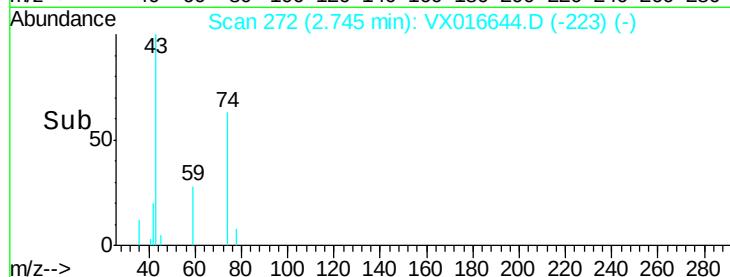
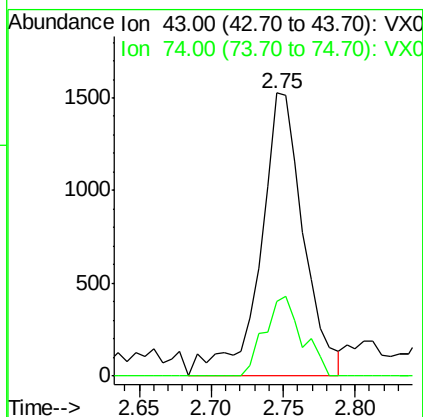
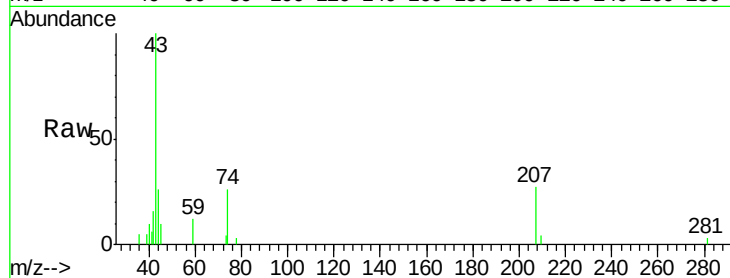




#18  
Methyl Acetate  
Concen: 1.02 ug/l  
RT: 2.75 min Scan# 272  
Delta R.T. -0.00 min  
Lab File: VX016644.D  
Acq: 08 Jun 2020 17:57

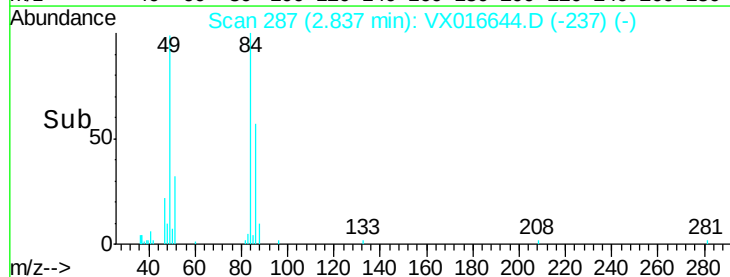
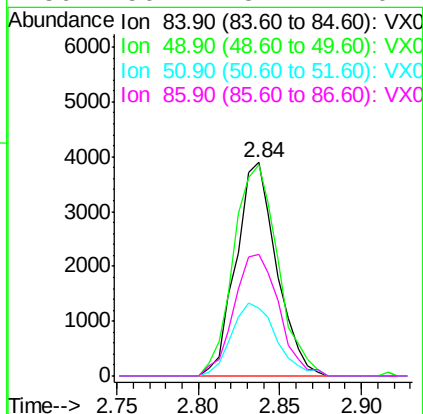
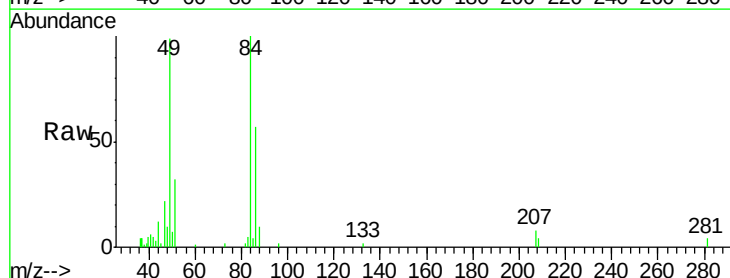
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB129340ZHE#11

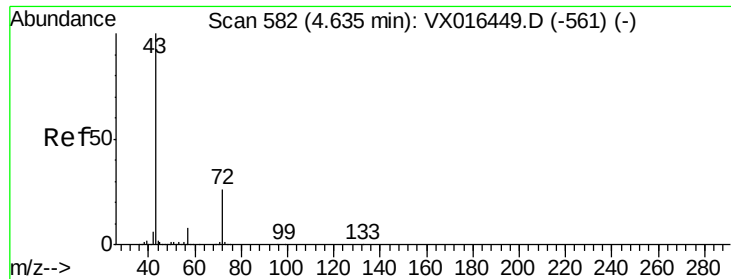
Tgt Ion: 43 Resp: 3165  
Ion Ratio Lower Upper  
43 100  
74 24.5 19.7 29.5



#20  
Methylene Chloride  
Concen: 2.69 ug/l  
RT: 2.84 min Scan# 287  
Delta R.T. 0.01 min  
Lab File: VX016644.D  
Acq: 08 Jun 2020 17:57

Tgt Ion: 84 Resp: 6729  
Ion Ratio Lower Upper  
84 100  
49 98.8 94.5 141.7  
51 32.0 30.2 45.4  
86 56.7 51.1 76.7





#25

2-Butanone

Concen: 2.34 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016644.D

Acq: 08 Jun 2020 17:57

Instrument :

MSVOA\_X

ClientSampleId :

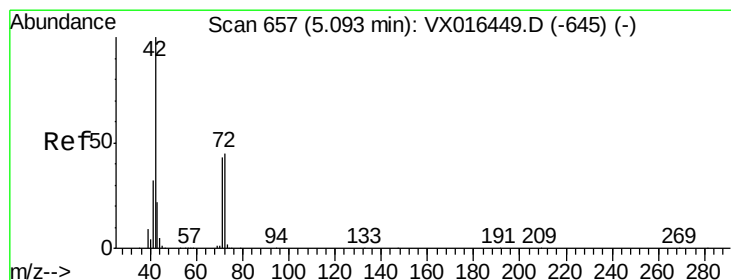
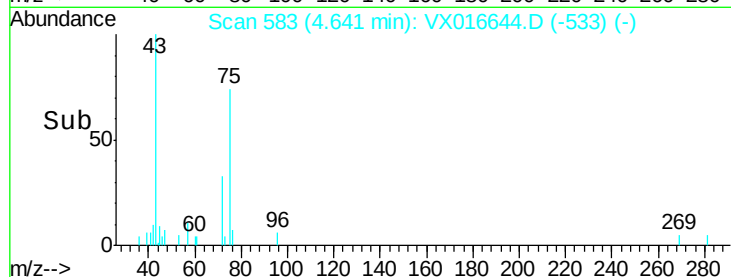
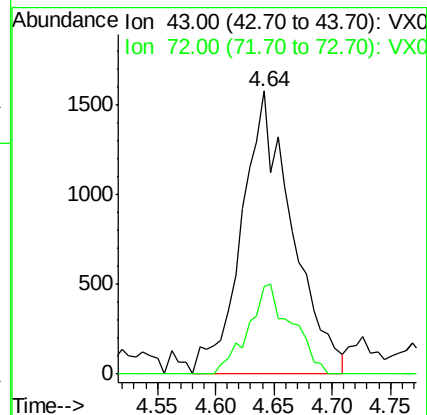
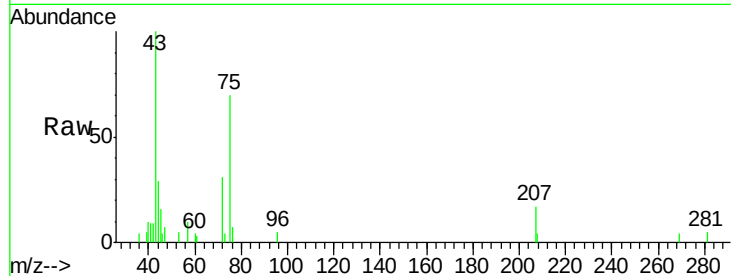
PB129340ZHE#11

Tgt Ion: 43 Resp: 4780

Ion Ratio Lower Upper

43 100

72 30.9 21.0 31.6



#29

Tetrahydrofuran

Concen: 1.35 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX016644.D

Acq: 08 Jun 2020 17:57

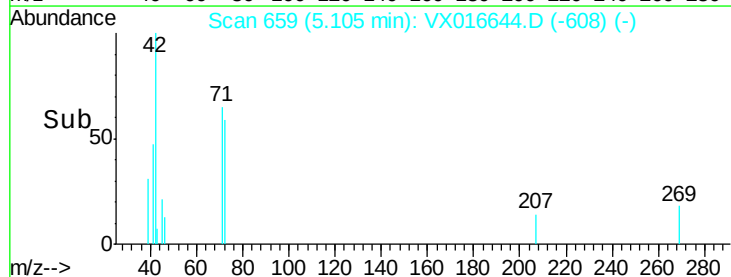
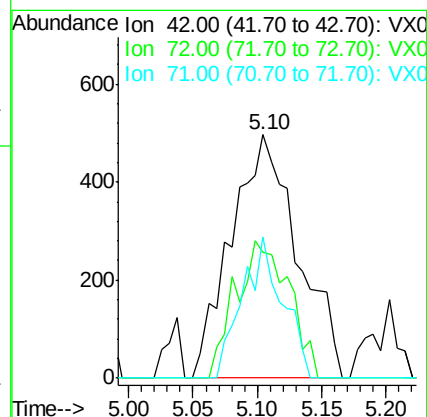
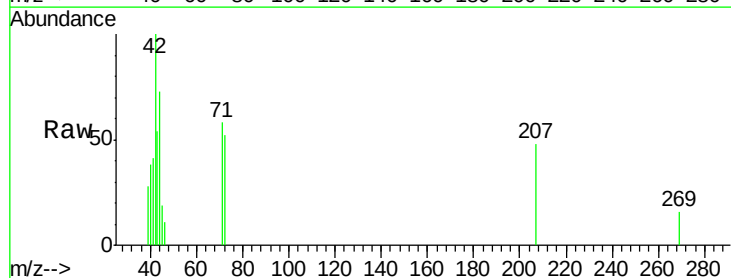
Tgt Ion: 42 Resp: 1783

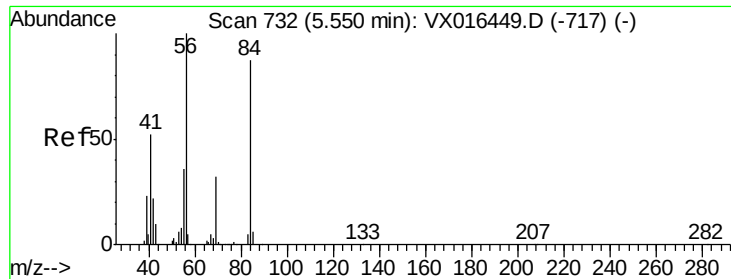
Ion Ratio Lower Upper

42 100

72 45.4 37.0 55.4

71 35.2 34.1 51.1

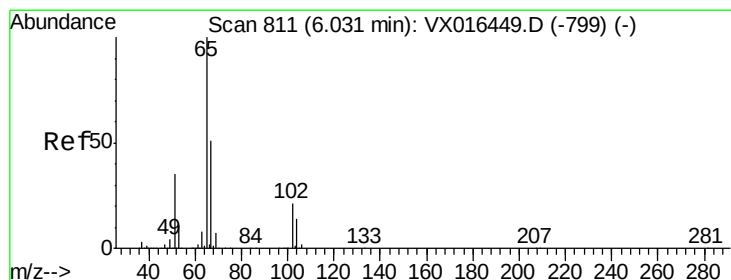
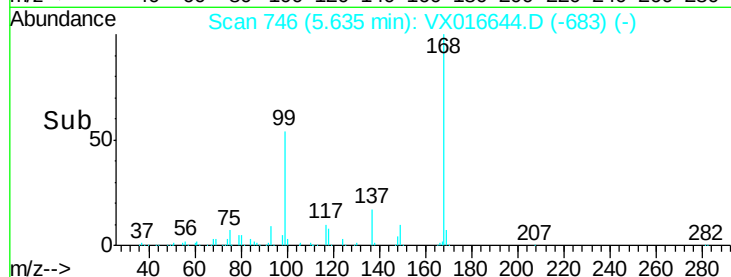
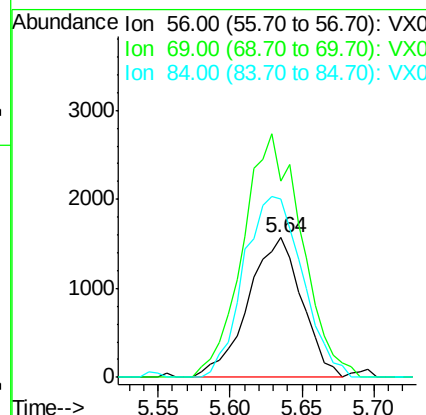
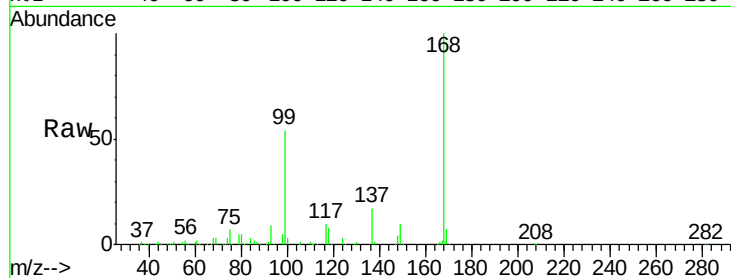




#31  
Cyclohexane  
Concen: 1.06 ug/l  
RT: 5.64 min Scan# 746  
Delta R.T. 0.09 min  
Lab File: VX016644.D  
Acq: 08 Jun 2020 17:57

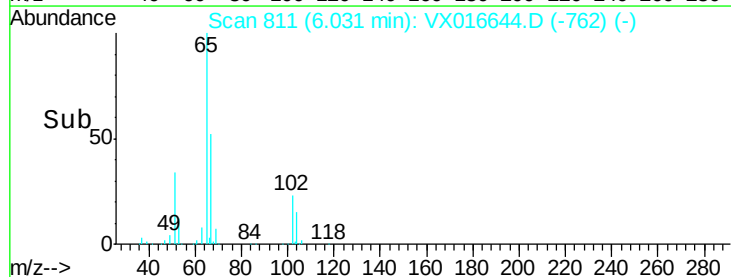
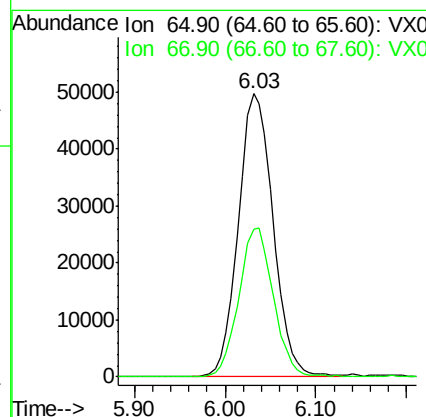
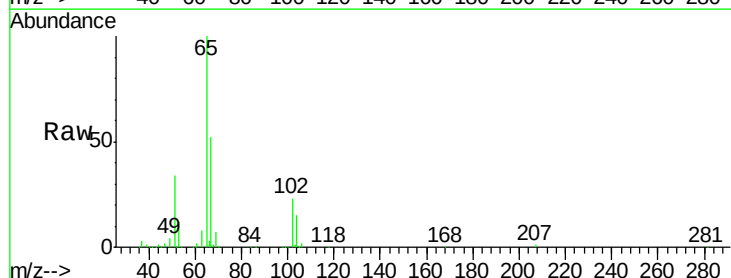
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB129340ZHE#11

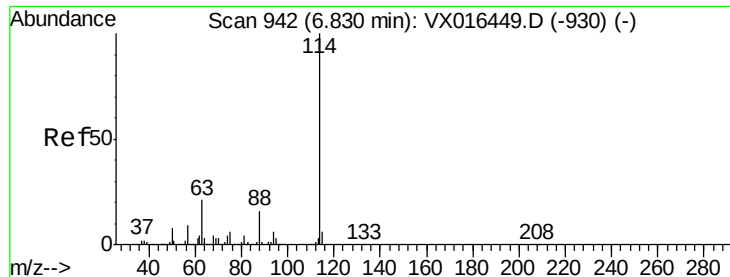
Tgt Ion: 56 Resp: 4068  
Ion Ratio Lower Upper  
56 100  
69 140.4 25.7 38.5#  
84 127.9 70.0 105.0#



#33  
1,2-Dichloroethane-d4  
Concen: 48.00 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. -0.00 min  
Lab File: VX016644.D  
Acq: 08 Jun 2020 17:57

Tgt Ion: 65 Resp: 132223  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016644.D

Acq: 08 Jun 2020 17:57

Instrument :

MSVOA\_X

ClientSampleId :

PB129340ZHE#11

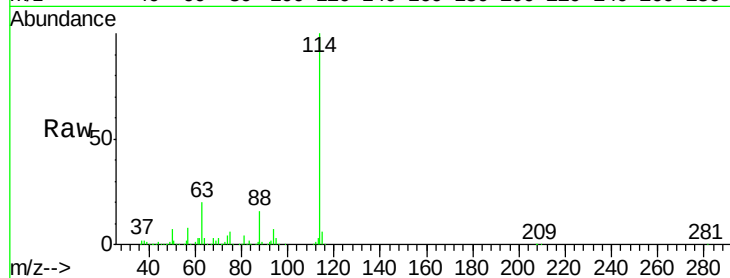
Tgt Ion:114 Resp: 359953

Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.6

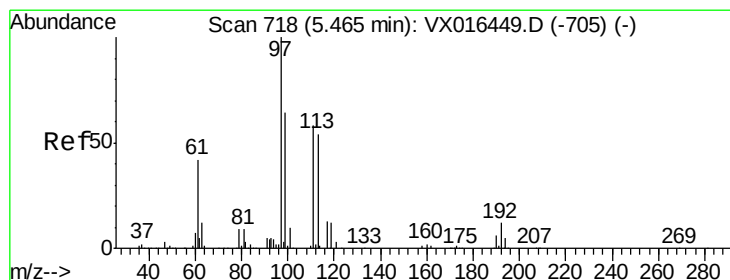
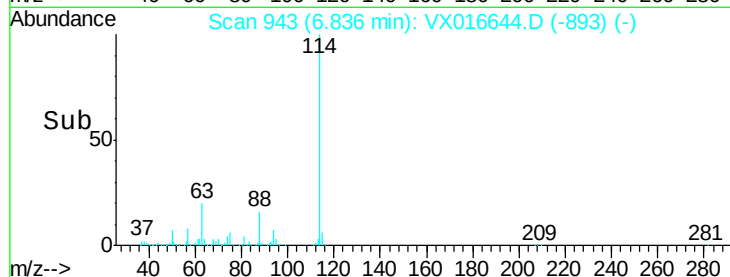
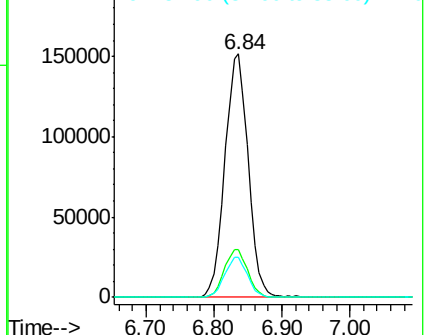
88 16.5 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.28 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX016644.D

Acq: 08 Jun 2020 17:57

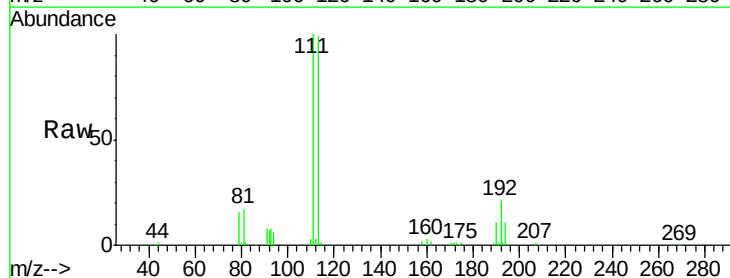
Tgt Ion:113 Resp: 109225

Ion Ratio Lower Upper

113 100

111 102.8 83.0 124.6

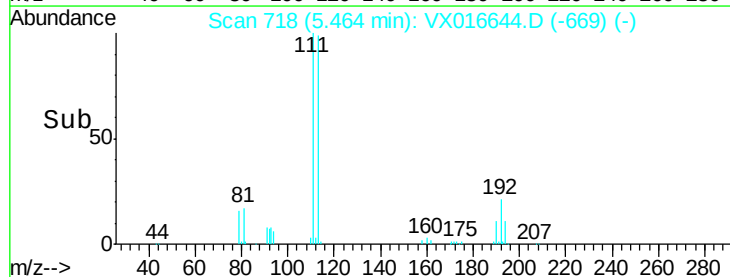
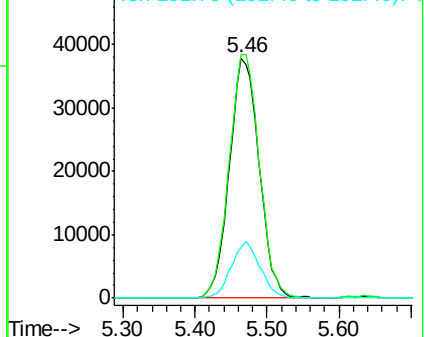
192 22.8 17.7 26.5



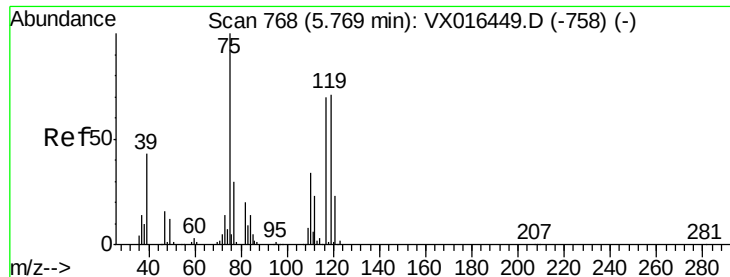
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



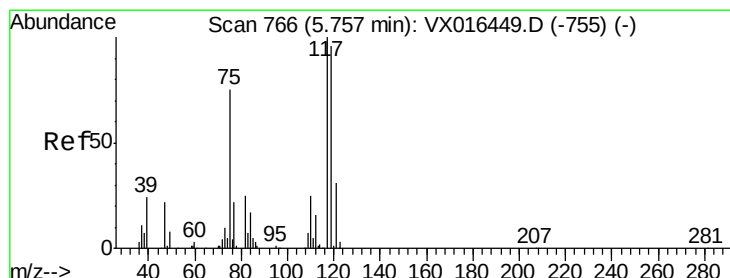
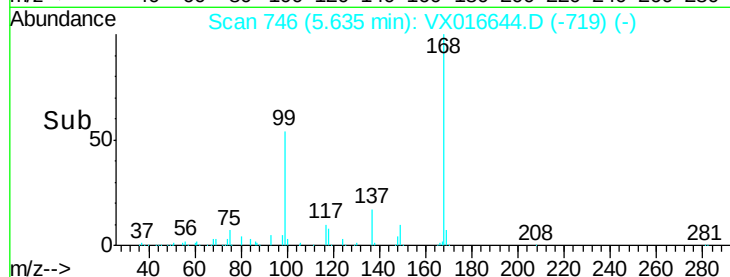
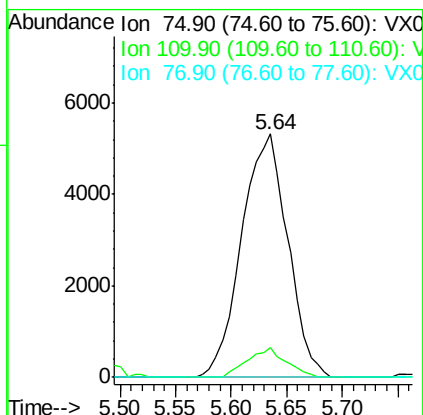
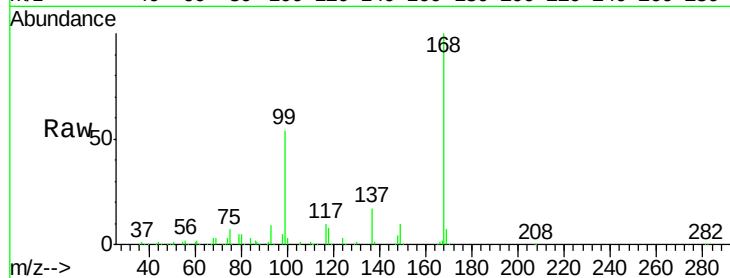




#36  
 1,1-Dichloropropene  
 Concen: 4.50 ug/l  
 RT: 5.64 min Scan# 746  
 Delta R.T. -0.13 min  
 Lab File: VX016644.D  
 Acq: 08 Jun 2020 17:57

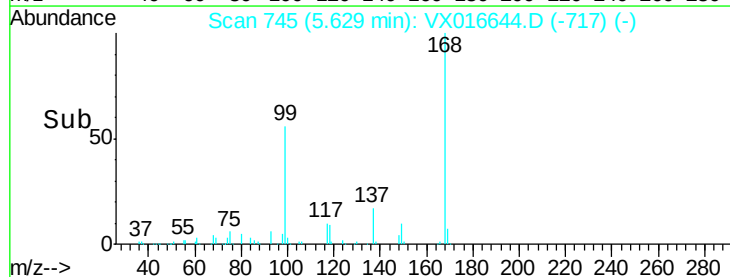
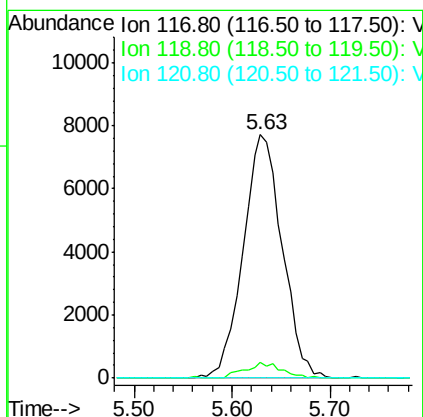
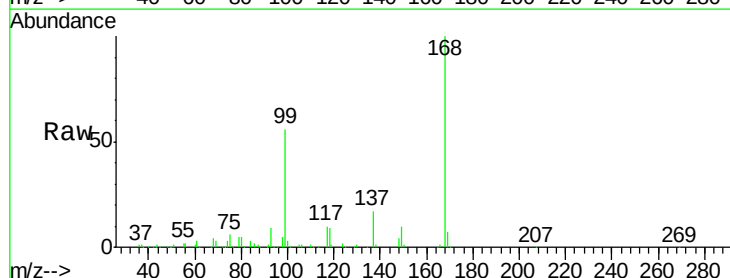
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB129340ZHE#11

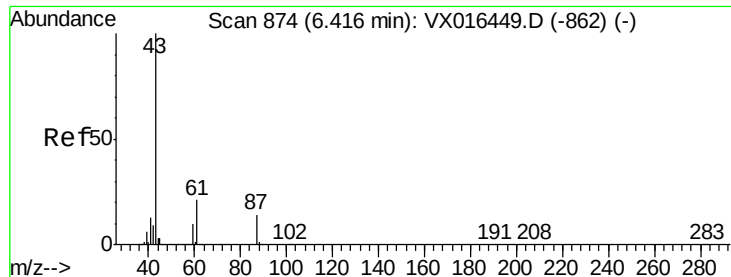
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.0  | 17.4  | 52.3# |
| 77      | 0.0   | 24.2  | 36.4# |



#38  
 Carbon Tetrachloride  
 Concen: 5.95 ug/l  
 RT: 5.63 min Scan# 745  
 Delta R.T. -0.13 min  
 Lab File: VX016644.D  
 Acq: 08 Jun 2020 17:57

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.7   | 76.3  | 114.5# |
| 121     | 0.0   | 24.6  | 37.0#  |



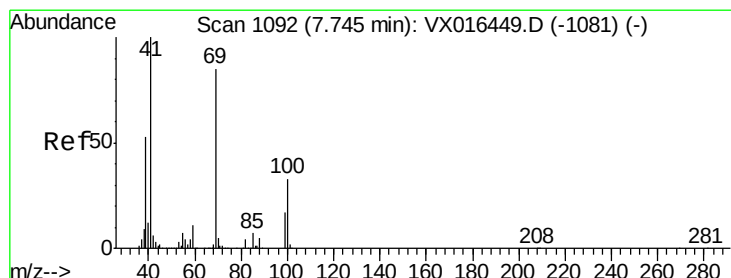
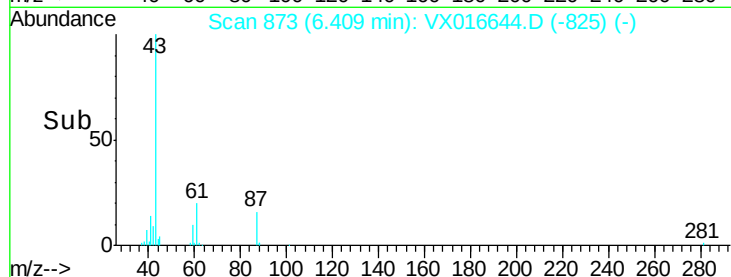
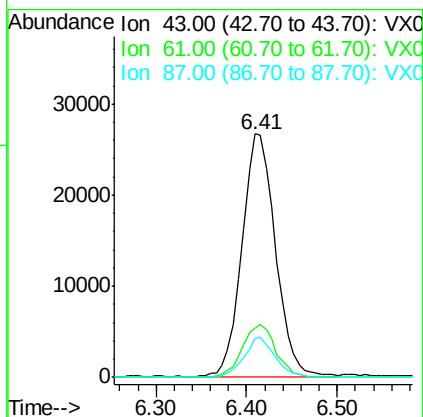
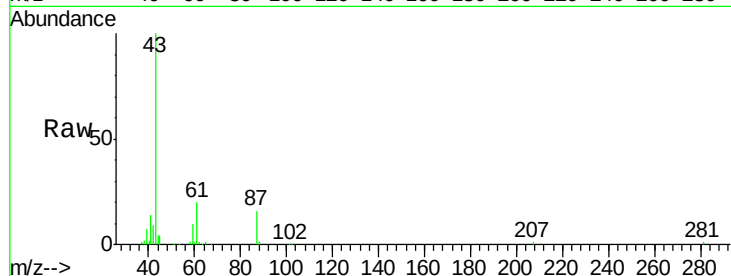


#43

Isopropyl Acetate  
 Concen: 10.65 ug/l  
 RT: 6.41 min Scan# 873  
 Delta R.T. -0.01 min  
 Lab File: VX016644.D  
 Acq: 08 Jun 2020 17:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB129340ZHE#11

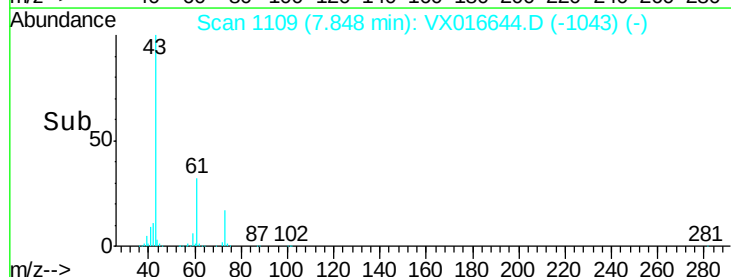
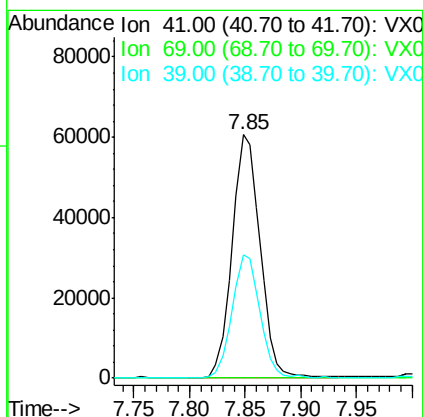
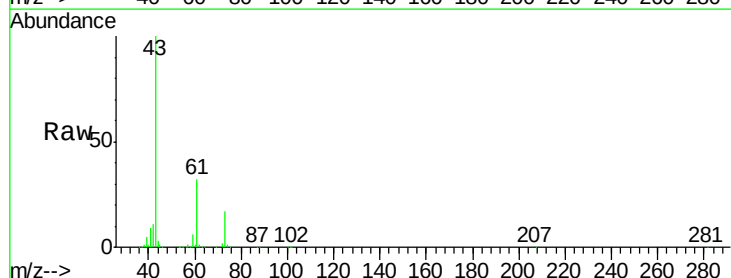
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 21.8  | 16.8  | 25.2  |
| 87      | 15.3  | 11.2  | 16.8  |

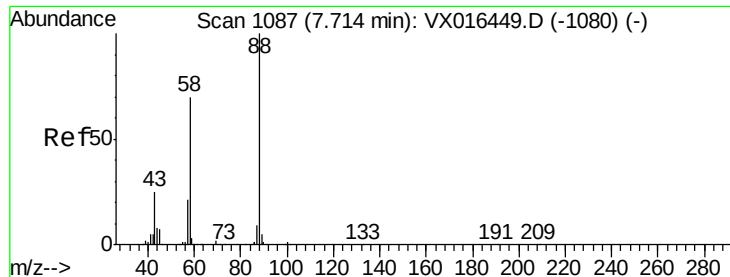


#48

Methyl methacrylate  
 Concen: 34.41 ug/l  
 RT: 7.85 min Scan# 1109  
 Delta R.T. 0.10 min  
 Lab File: VX016644.D  
 Acq: 08 Jun 2020 17:57

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 41      | 100   |       |        |
| 69      | 0.3   | 68.6  | 102.8# |
| 39      | 50.8  | 42.4  | 63.6   |





#49

1,4-Dioxane

Concen: 2.95 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.13 min

Lab File: VX016644.D

Acq: 08 Jun 2020 17:57

Instrument :

MSVOA\_X

ClientSampleId :

PB129340ZHE#11

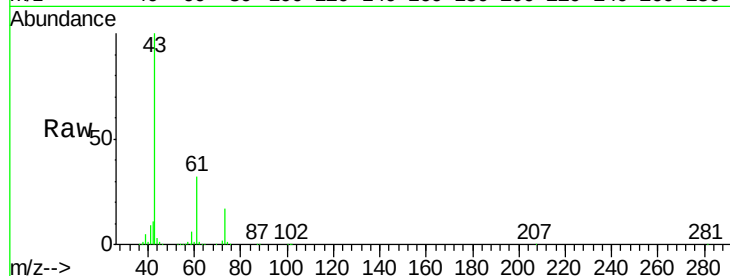
Tgt Ion: 88 Resp: 211

Ion Ratio Lower Upper

88 100

43 543221.3 24.2 36.4#

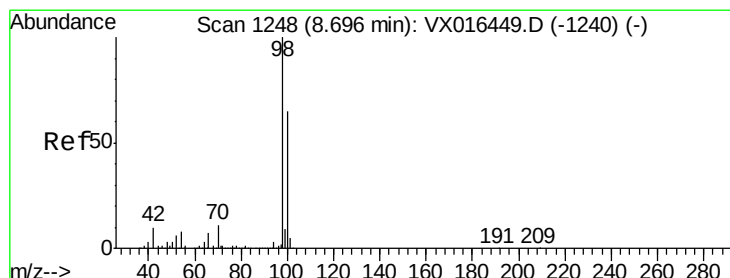
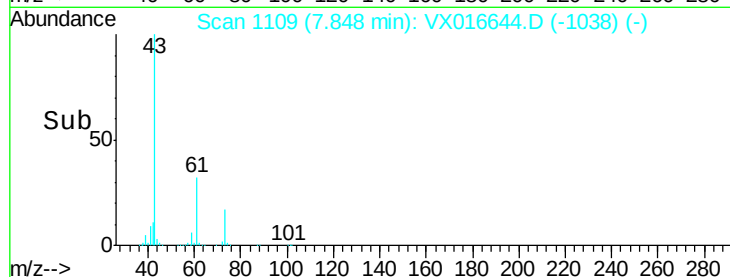
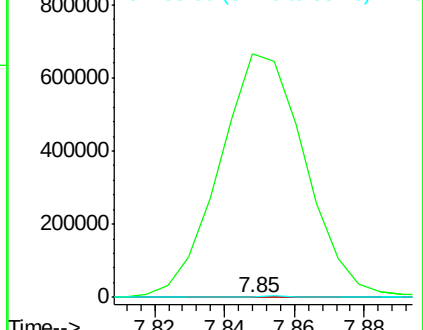
58 2539.8 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 51.84 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016644.D

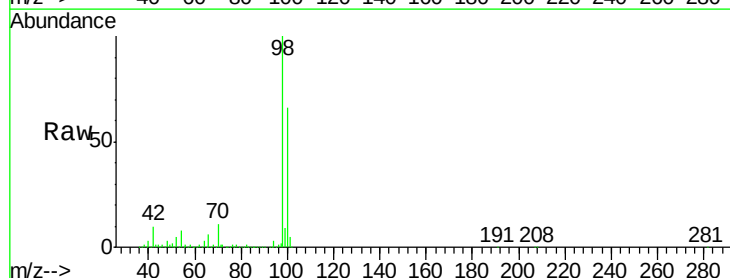
Acq: 08 Jun 2020 17:57

Tgt Ion: 98 Resp: 447173

Ion Ratio Lower Upper

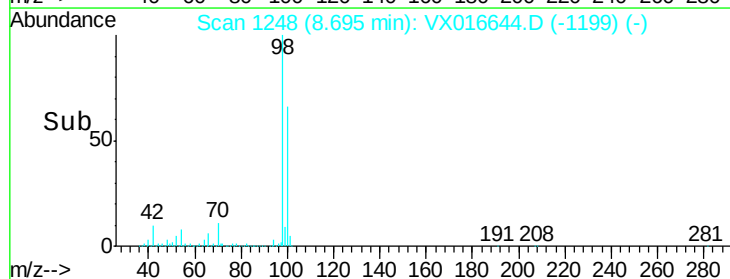
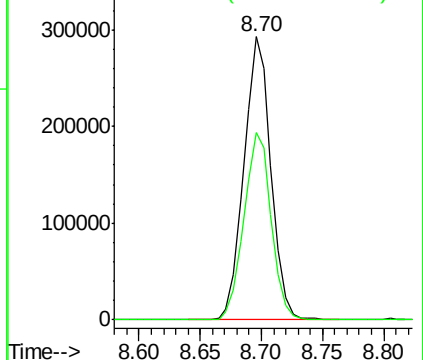
98 100

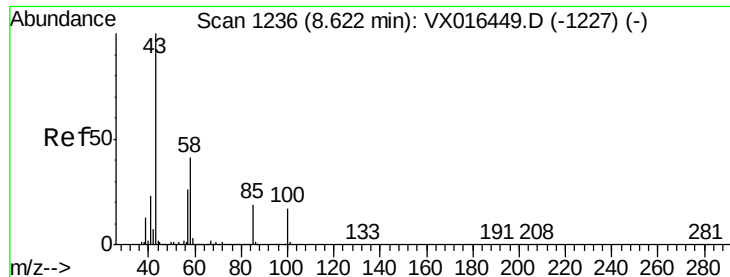
100 67.1 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

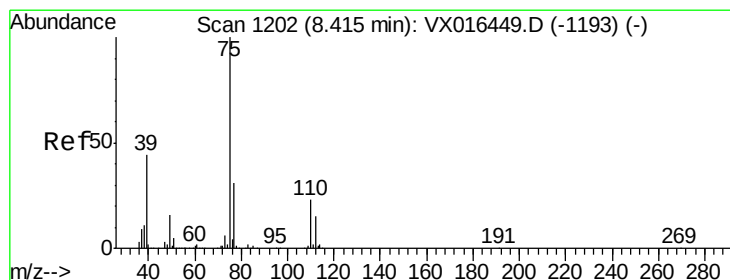
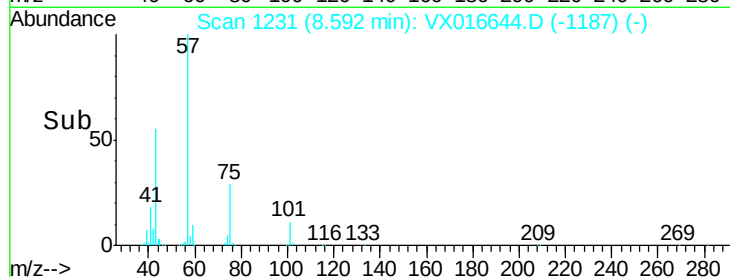
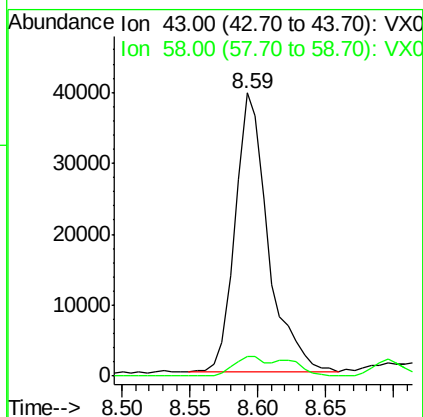
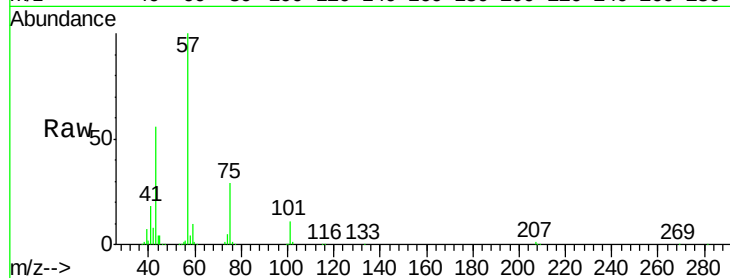




#51  
 4-Methyl-2-Pentanone  
 Concen: 16.81 ug/l  
 RT: 8.59 min Scan# 1231  
 Delta R.T. -0.03 min  
 Lab File: VX016644.D  
 Acq: 08 Jun 2020 17:57

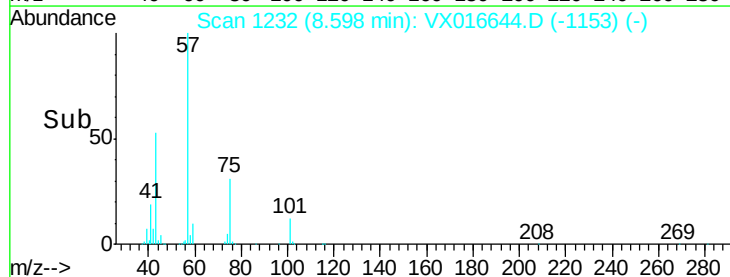
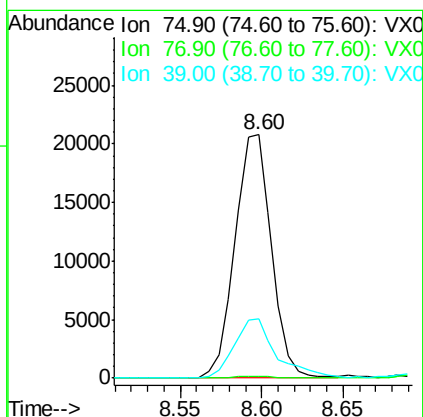
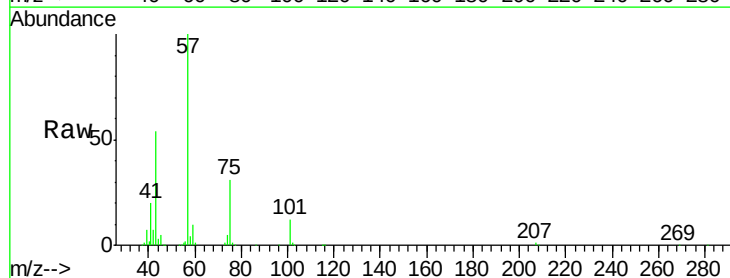
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB129340ZHE#11

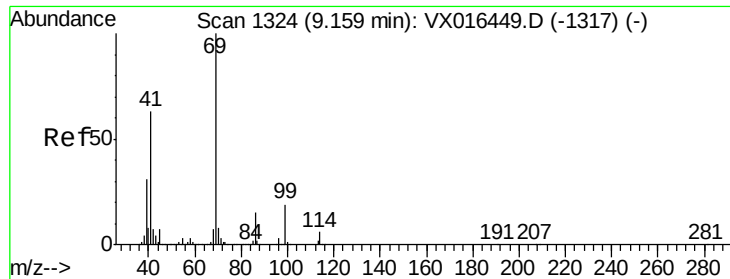
Tgt Ion: 43 Resp: 66785  
 Ion Ratio Lower Upper  
 43 100  
 58 7.1 33.0 49.6#



#54  
 cis-1,3-Dichloropropene  
 Concen: 7.50 ug/l  
 RT: 8.60 min Scan# 1232  
 Delta R.T. 0.18 min  
 Lab File: VX016644.D  
 Acq: 08 Jun 2020 17:57

Tgt Ion: 75 Resp: 32426  
 Ion Ratio Lower Upper  
 75 100  
 77 0.8 24.6 36.8#  
 39 23.9 35.3 52.9#





#56

Ethyl methacrylate

Concen: 0.29 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX016644.D

Acq: 08 Jun 2020 17:57

Instrument :

MSVOA\_X

ClientSampleId :

PB129340ZHE#11

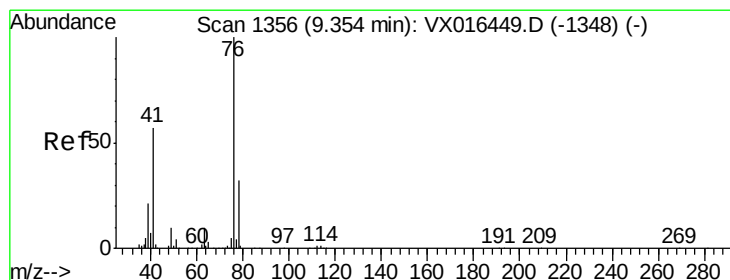
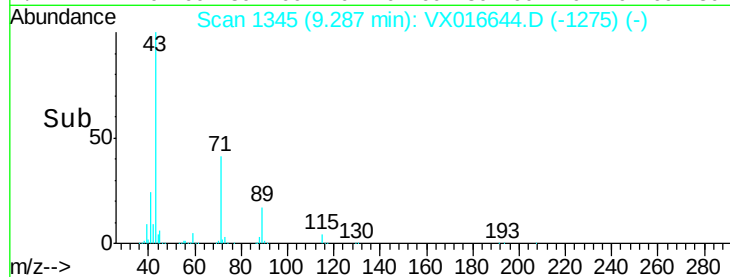
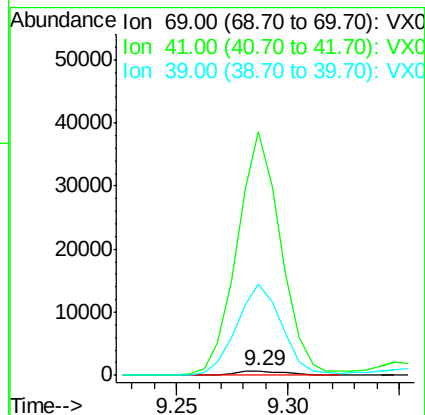
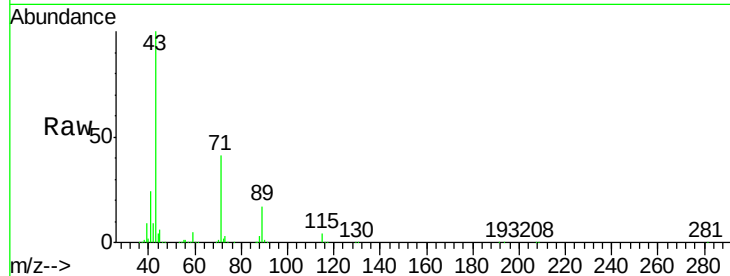
Tgt Ion: 69 Resp: 1185

Ion Ratio Lower Upper

69 100

41 4479.8 50.7 76.1#

39 1737.4 25.8 38.6#



#57

1,3-Dichloropropane

Concen: 1.29 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016644.D

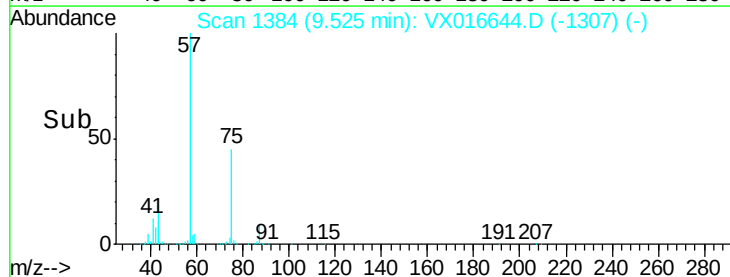
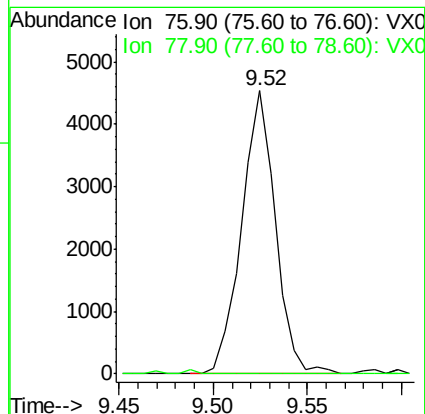
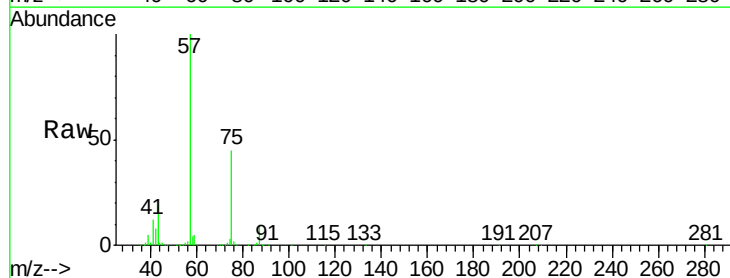
Acq: 08 Jun 2020 17:57

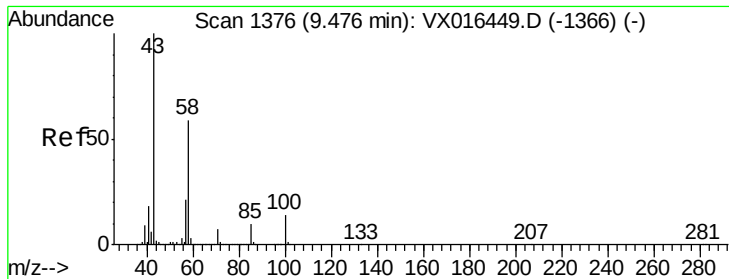
Tgt Ion: 76 Resp: 5631

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#

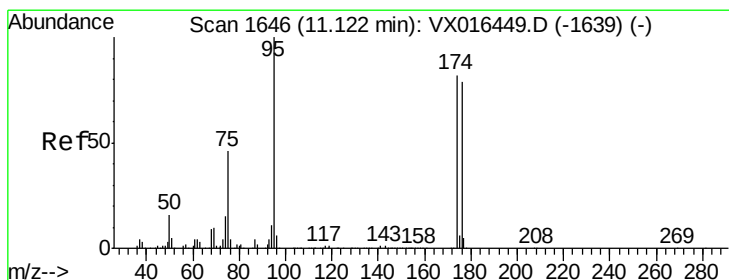
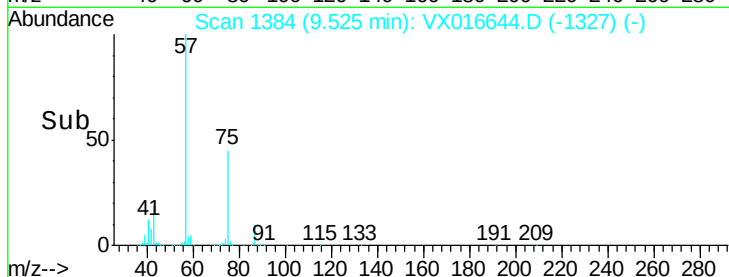
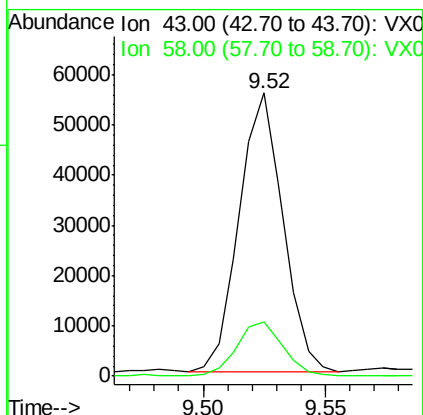
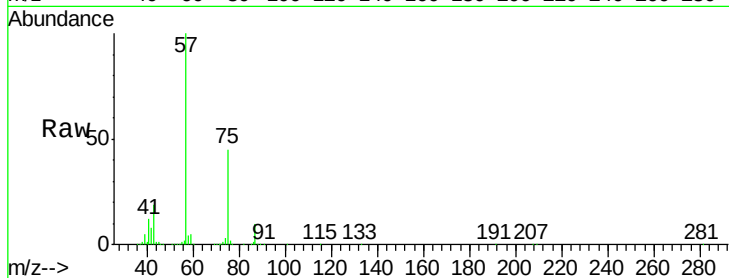




#59  
2-Hexanone  
Concen: 22.41 ug/l  
RT: 9.52 min Scan# 1384  
Delta R.T. 0.05 min  
Lab File: VX016644.D  
Acq: 08 Jun 2020 17:57

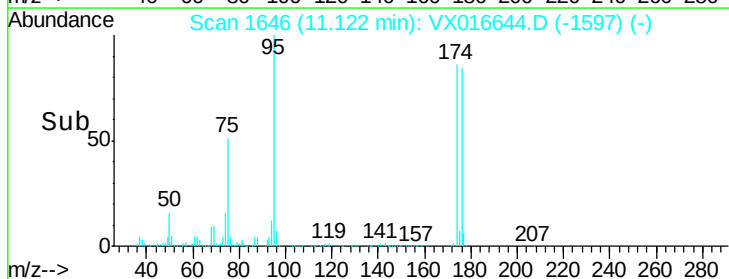
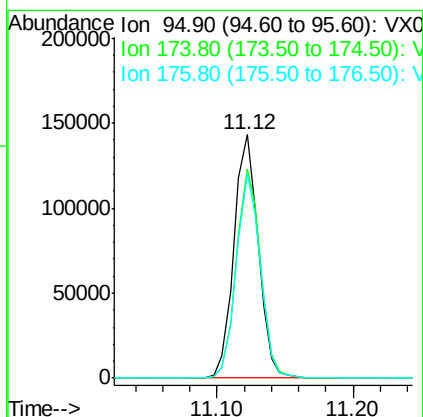
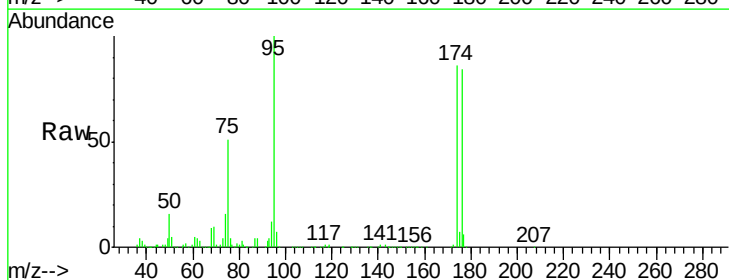
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB129340ZHE#11

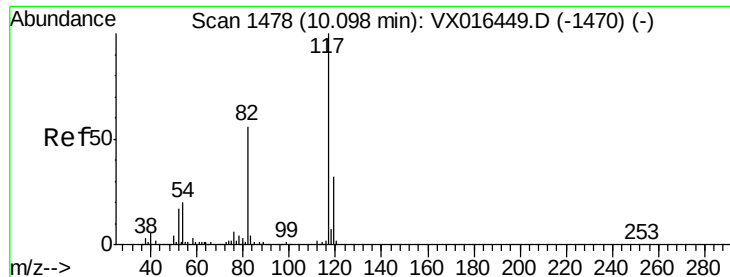
Tgt Ion: 43 Resp: 69265  
Ion Ratio Lower Upper  
43 100  
58 20.7 28.8 86.4#



#62  
4-Bromofluorobenzene  
Concen: 53.48 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX016644.D  
Acq: 08 Jun 2020 17:57

Tgt Ion: 95 Resp: 178276  
Ion Ratio Lower Upper  
95 100  
174 85.4 0.0 163.0  
176 82.8 0.0 156.8

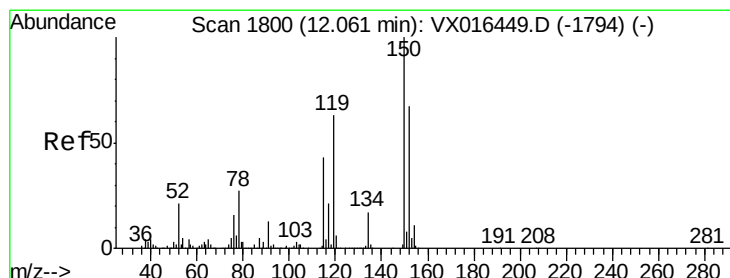
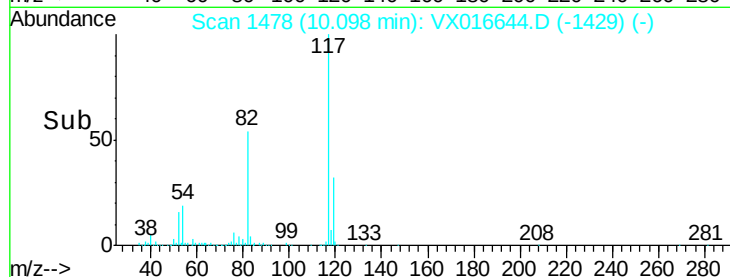
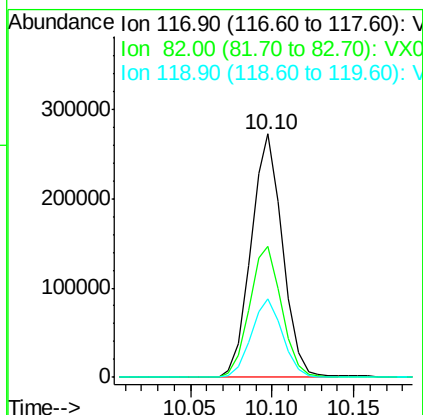
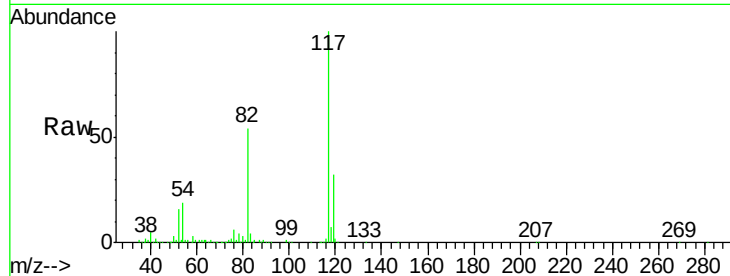




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX016644.D  
Acq: 08 Jun 2020 17:57

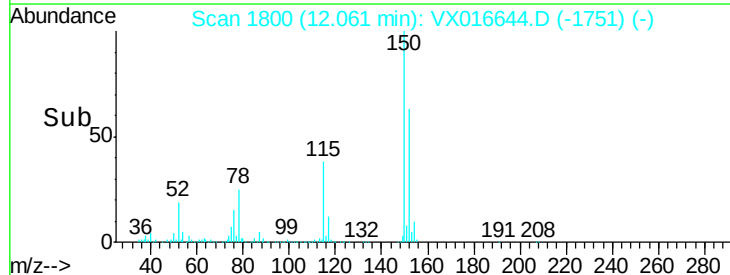
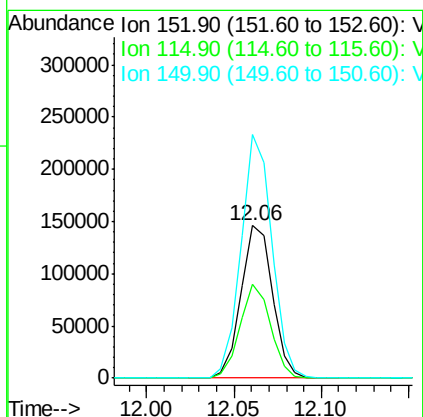
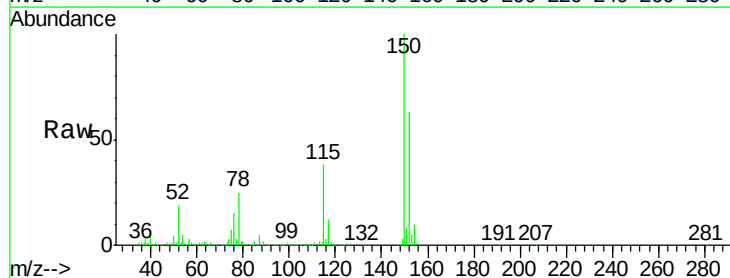
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB129340ZHE#11

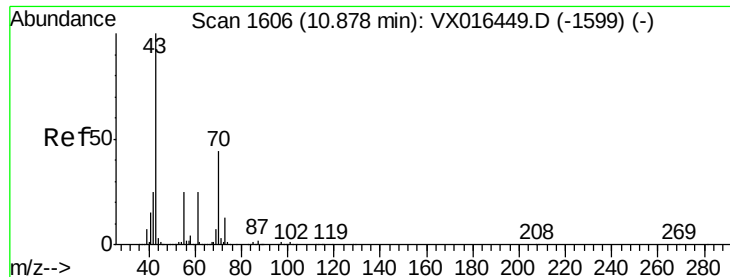
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.8  | 45.0  | 67.6  |
| 119     | 32.1  | 25.8  | 38.8  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX016644.D  
Acq: 08 Jun 2020 17:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.4  | 39.9  | 119.6 |
| 150     | 156.0 | 0.0   | 341.0 |





#74

N-ethyl acetate

Concen: 0.56 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX016644.D

Acq: 08 Jun 2020 17:57

Instrument :

MSVOA\_X

ClientSampleId :

PB129340ZHE#11

Tgt Ion: 43 Resp: 3268

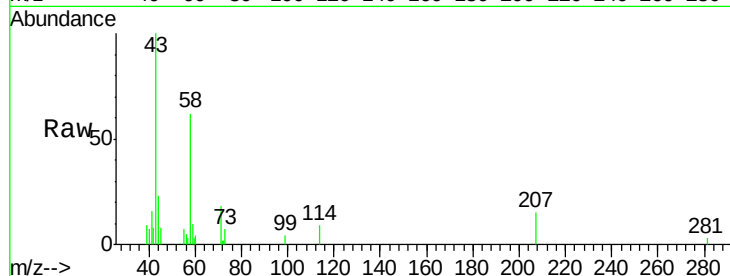
Ion Ratio Lower Upper

43 100

70 0.0 36.1 54.1#

55 10.7 20.2 30.4#

61 0.0 20.3 30.5#

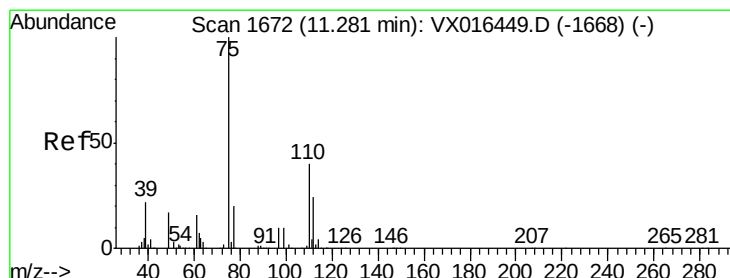
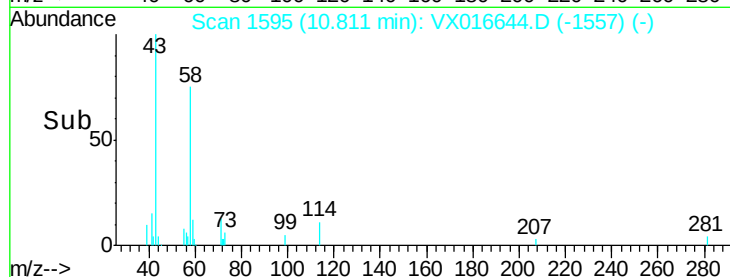
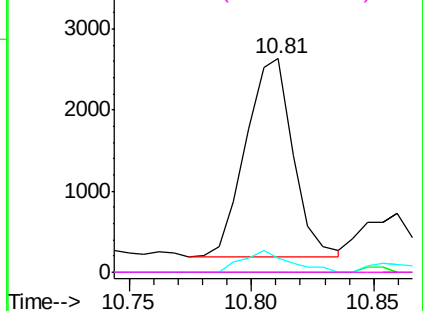


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 21.80 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016644.D

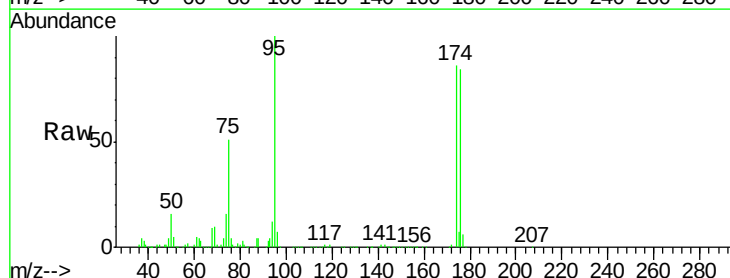
Acq: 08 Jun 2020 17:57

Tgt Ion: 75 Resp: 88234

Ion Ratio Lower Upper

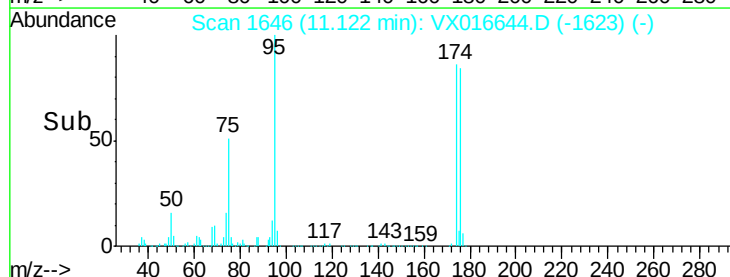
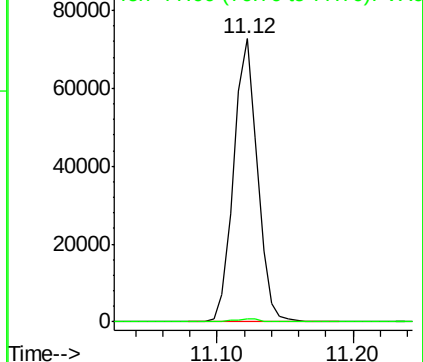
75 100

77 1.2 21.3 63.7#

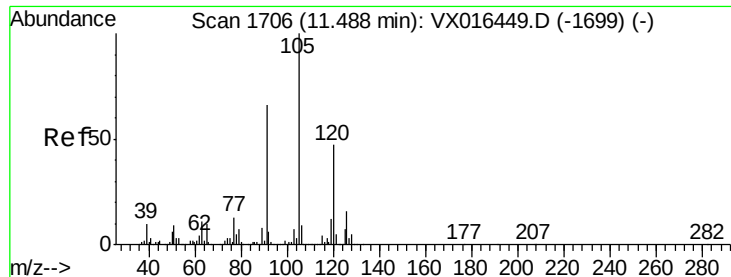


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0







#80

1,3,5-Trimethylbenzene

Concen: 0.55 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. 0.01 min

Lab File: VX016644.D

Acq: 08 Jun 2020 17:57

Instrument :

MSVOA\_X

ClientSampleId :

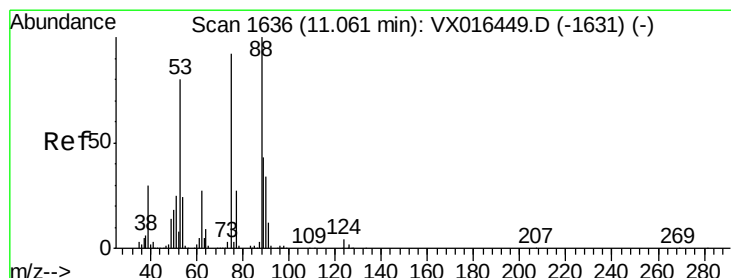
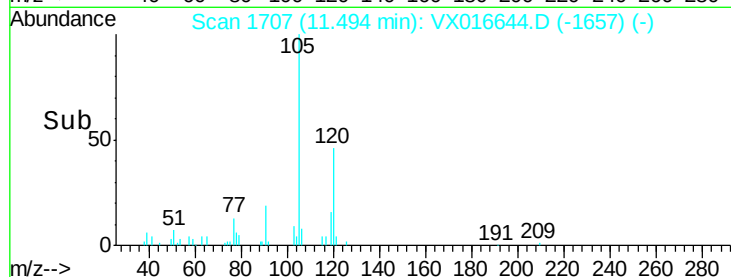
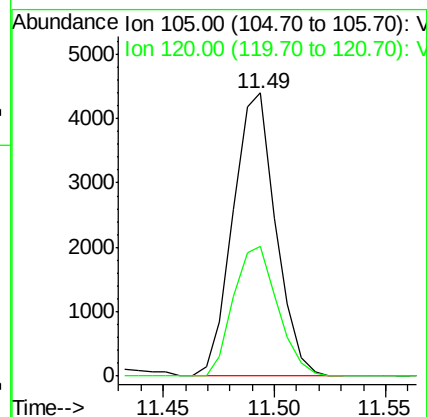
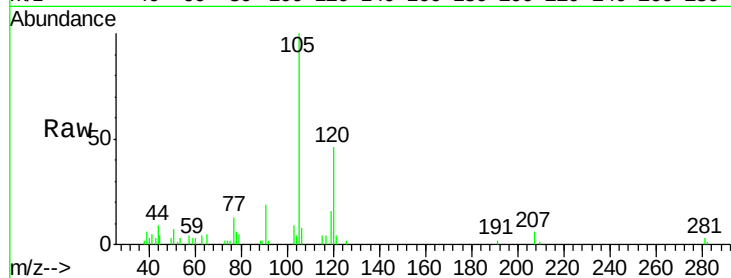
PB129340ZHE#11

Tgt Ion: 105 Resp: 5889

Ion Ratio Lower Upper

105 100

120 47.3 24.3 72.8



#81

trans-1,4-Dichloro-2-butene

Concen: 53.63 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016644.D

Acq: 08 Jun 2020 17:57

Tgt Ion: 75 Resp: 88234

Ion Ratio Lower Upper

75 100

53 0.2 71.3 106.9#

89 0.0 36.6 55.0#

