

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN081120\  
 Data File : VN062845.D  
 Acq On : 11 Aug 2020 21:34  
 Operator : JC/MD  
 Sample : L3607-01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ES-TOTE-COMP

Quant Time: Aug 11 22:18:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080520W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:26:42 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 118731   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 214283   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 212987   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 80217    | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 7.99   | 65  | 102757   | 52.34 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 104.68% |      |
| 35) Dibromofluoromethane    | 7.55   | 113 | 74258    | 50.66 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.32% |      |
| 50) Toluene-d8              | 10.06  | 98  | 271995   | 47.53 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.06%  |      |
| 62) 4-Bromofluorobenzene    | 12.38  | 95  | 99414    | 45.97 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.94%  |      |

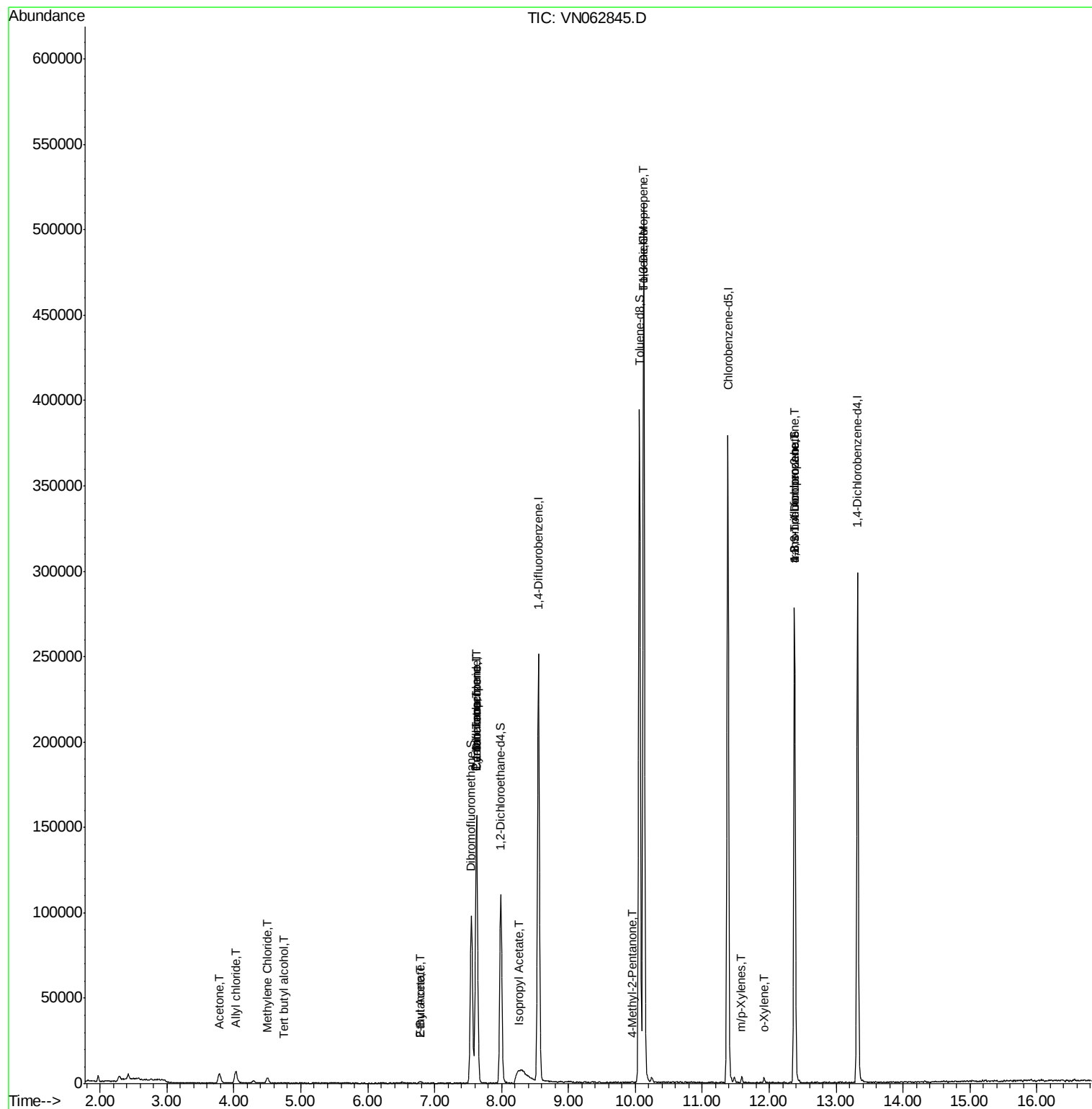
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.75  | 59   | 341      | 1.060     | ug/l # | 72     |
| 14) Allyl chloride             | 4.03  | 41   | 1046     | 0.503     | ug/l # | 64     |
| 16) Acetone                    | 3.78  | 43   | 10957    | 15.444    | ug/l   | 98     |
| 17) Carbon Disulfide           | 4.01  | 76   | 598      | Below Cal | #      | 74     |
| 18) Methyl Acetate             | 4.28  | 43   | 1187     | Below Cal |        | 99     |
| 20) Methylene Chloride         | 4.50  | 84   | 1579     | 0.463     | ug/l   | 87     |
| 25) 2-Butanone                 | 6.80  | 43   | 489      | 0.487     | ug/l # | 49     |
| 31) Cyclohexane                | 7.63  | 56   | 2981     | 1.252     | ug/l # | 10     |
| 36) 1,1-Dichloropropene        | 7.62  | 75   | 10058    | 4.821     | ug/l # | 51     |
| 37) Ethyl Acetate              | 6.80  | 43   | 489      | 0.224     | ug/l # | 67     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 13333    | 5.403     | ug/l # | 14     |
| 43) Isopropyl Acetate          | 8.25  | 43   | 9068     | 2.494     | ug/l # | 61     |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 648      | 0.275     | ug/l # | 36     |
| 52) Toluene                    | 10.13 | 92   | 221821   | 57.703    | ug/l   | 97     |
| 53) t-1,3-Dichloropropene      | 10.12 | 75   | 2862     | 1.049     | ug/l # | 1      |
| 68) m/p-Xylenes                | 11.58 | 106  | 1220     | 0.422     | ug/l   | 90     |
| 69) o-Xylene                   | 11.93 | 106  | 975      | 0.360     | ug/l   | 85     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 53962    | 24.944    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 53962    | 76.146    | ug/l # | 10     |

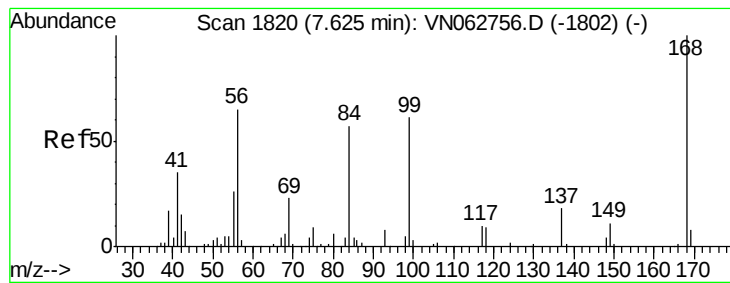
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 05 13:26:42 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062845.D

Acq: 11 Aug 2020 21:34

Instrument :

MSVOA\_N

ClientSampleId :

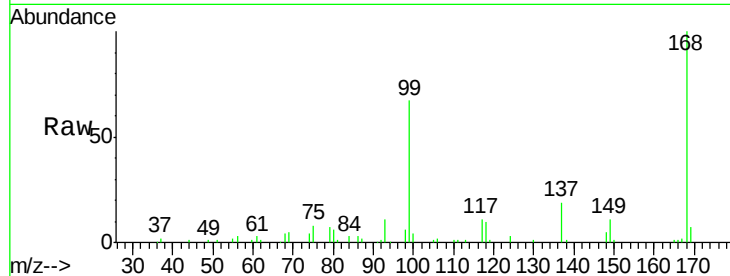
ES-TOTE-COMP

Tgt Ion:168 Resp: 118731

Ion Ratio Lower Upper

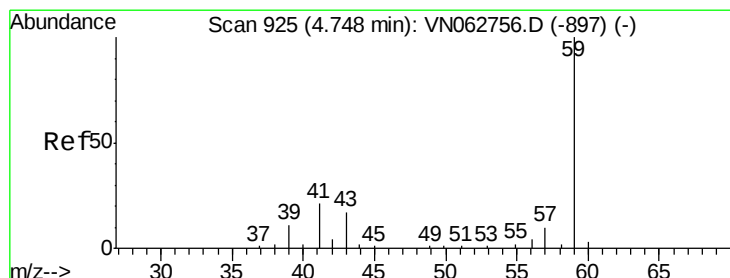
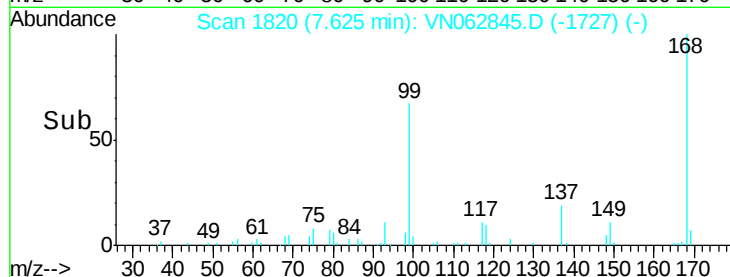
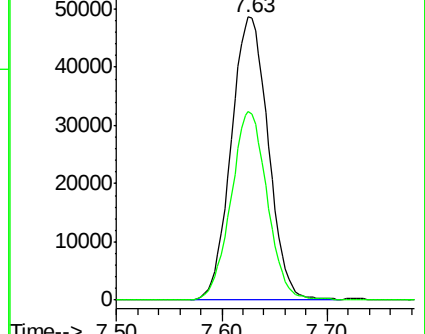
168 100

99 66.7 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 1.060 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.00 min

Lab File: VN062845.D

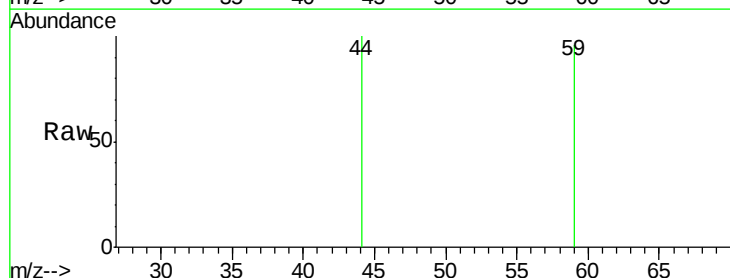
Acq: 11 Aug 2020 21:34

Tgt Ion: 59 Resp: 341

Ion Ratio Lower Upper

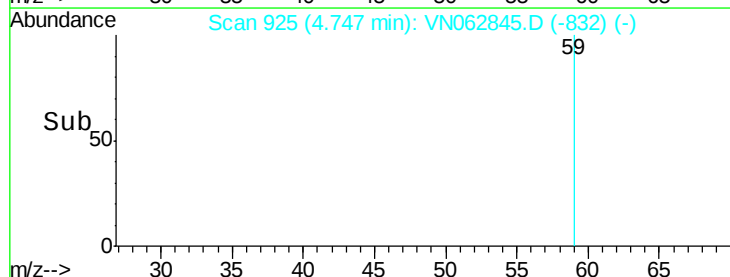
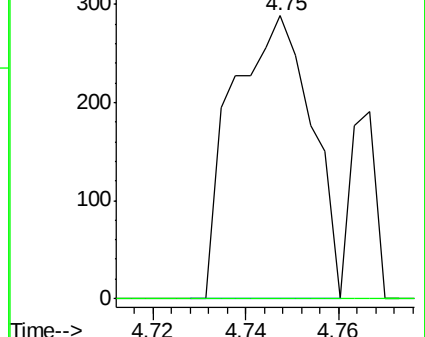
59 100

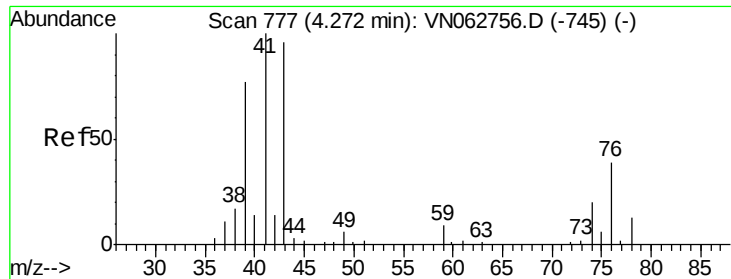
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#14

Allyl chloride

Concen: 0.503 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.24 min

Lab File: VN062845.D

Acq: 11 Aug 2020 21:34

Instrument :

MSVOA\_N

ClientSampleId :

ES-TOTE-COMP

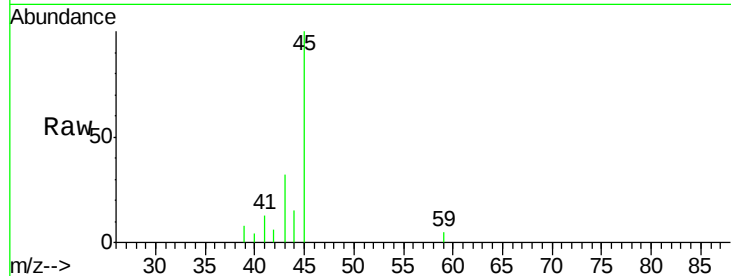
Tgt Ion: 41 Resp: 1046

Ion Ratio Lower Upper

41 100

39 49.6 55.7 83.5#

76 0.0 27.5 41.3#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

4.03

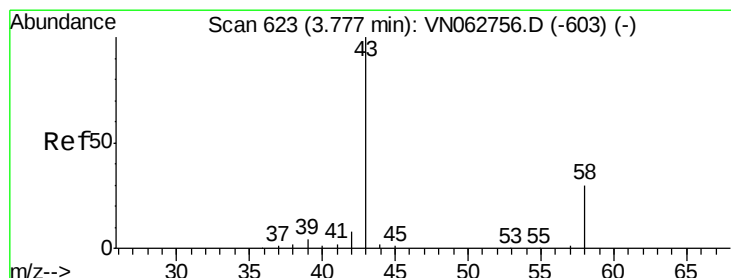
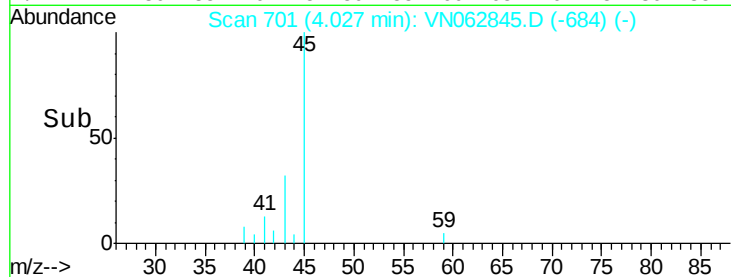
400

200

0

4.00 4.05

Time-->



#16

Acetone

Concen: 15.444 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062845.D

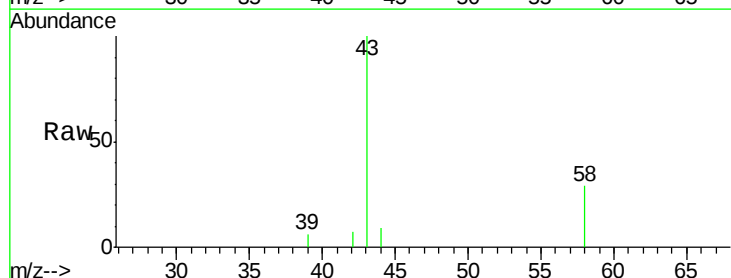
Acq: 11 Aug 2020 21:34

Tgt Ion: 43 Resp: 10957

Ion Ratio Lower Upper

43 100

58 28.8 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

4000

3000

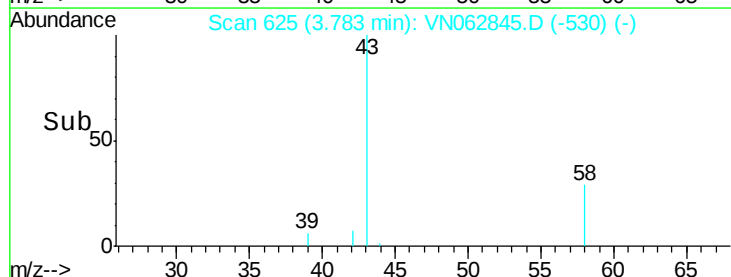
2000

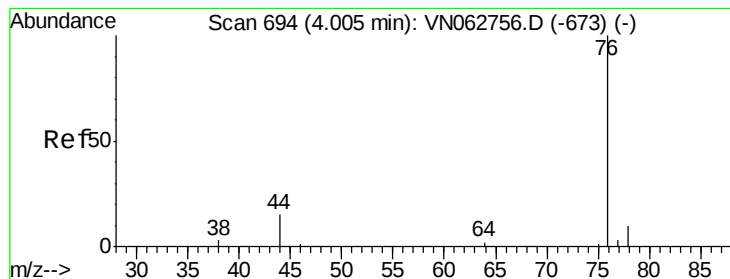
1000

0

3.70 3.80 3.90

Time-->





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN062845.D

Acq: 11 Aug 2020 21:34

Instrument :

MSVOA\_N

ClientSampleId :

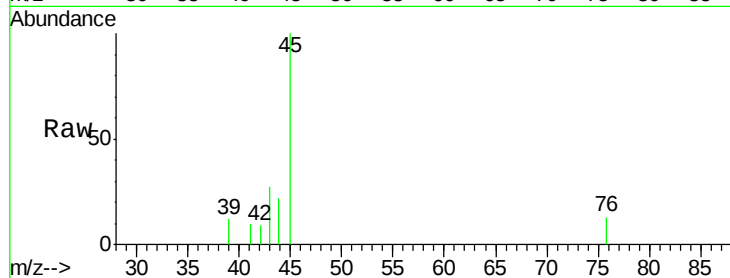
ES-TOTE-COMP

Tgt Ion: 76 Resp: 598

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.01

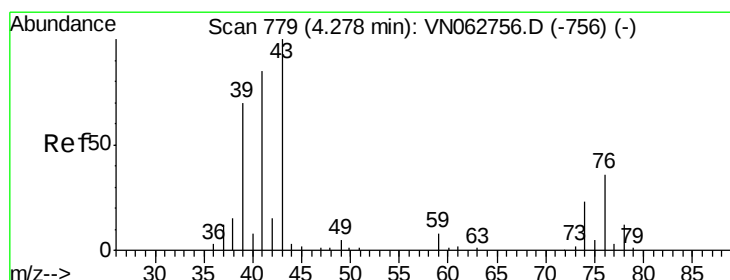
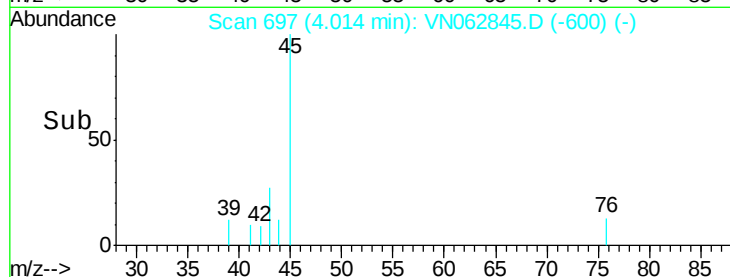
300

200

100

0

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.28 min Scan# 780

Delta R.T. 0.00 min

Lab File: VN062845.D

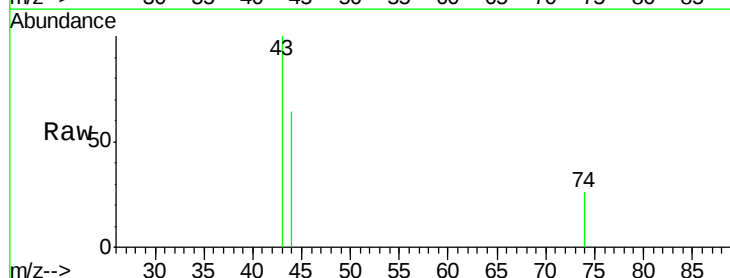
Acq: 11 Aug 2020 21:34

Tgt Ion: 43 Resp: 1187

Ion Ratio Lower Upper

43 100

74 22.8 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.28

800

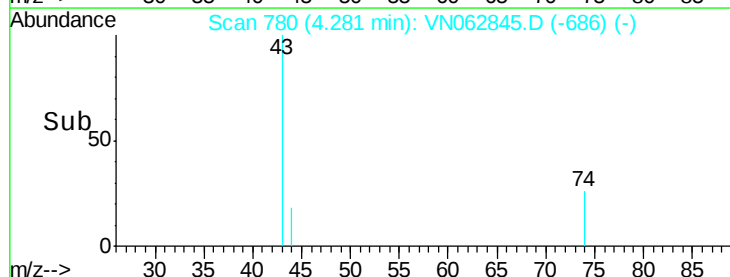
600

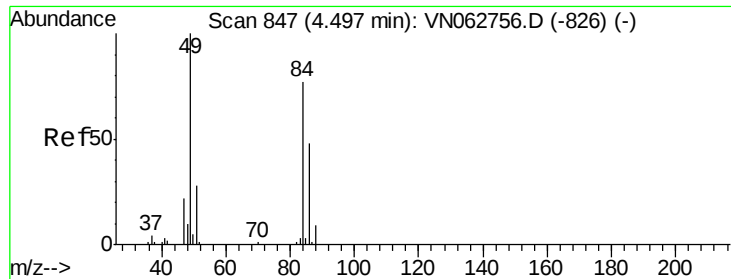
400

200

0

Time-->

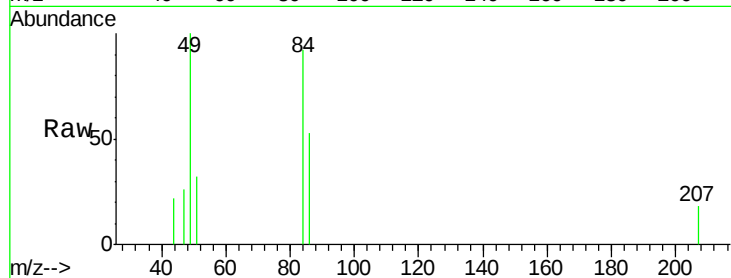




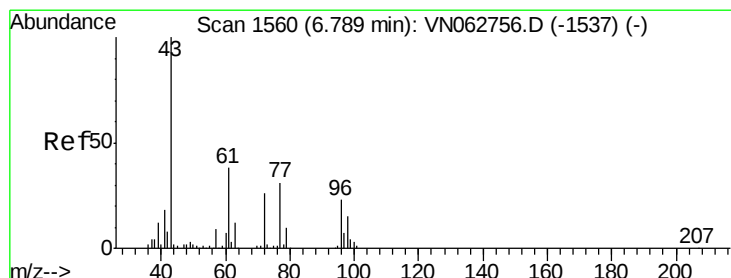
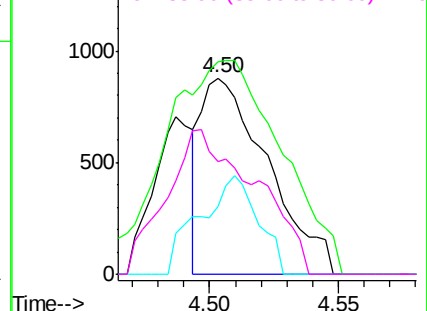
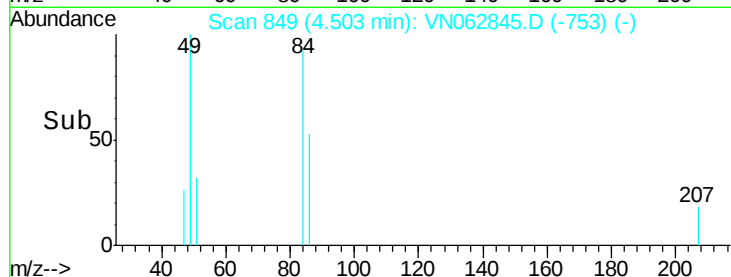
#20  
Methylene Chloride  
Concen: 0.463 ug/l  
RT: 4.50 min Scan# 849  
Delta R.T. 0.01 min  
Lab File: VN062845.D  
Acq: 11 Aug 2020 21:34

Instrument :  
MSVOA\_N  
ClientSampleId :  
ES-TOTE-COMP

Tgt Ion: 84 Resp: 1579  
Ion Ratio Lower Upper  
84 100  
49 108.2 103.4 155.2  
51 34.2 29.3 43.9  
86 57.5 49.9 74.9

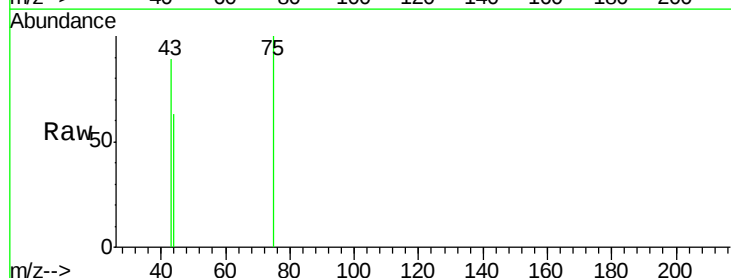


Abundance Ion 83.90 (83.60 to 84.60): VN0  
Ion 48.90 (48.60 to 49.60): VN0  
Ion 50.90 (50.60 to 51.60): VN0  
Ion 85.90 (85.60 to 86.60): VN0

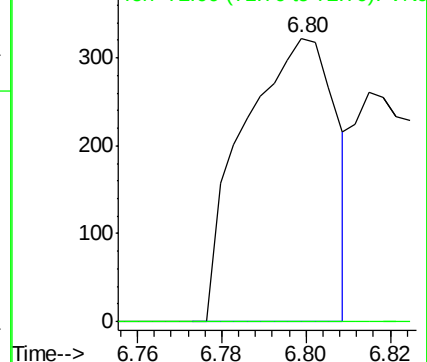
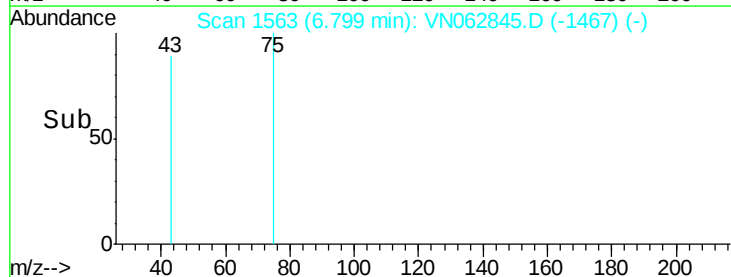


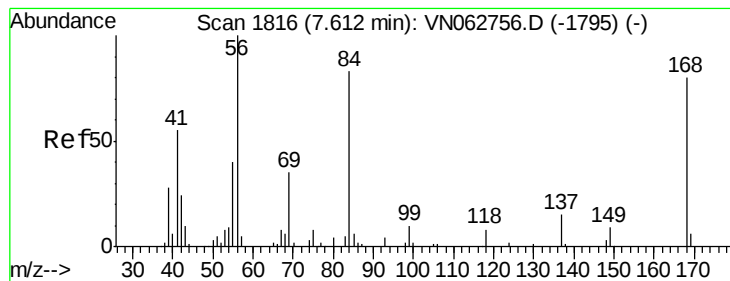
#25  
2-Butanone  
Concen: 0.487 ug/l  
RT: 6.80 min Scan# 1563  
Delta R.T. 0.01 min  
Lab File: VN062845.D  
Acq: 11 Aug 2020 21:34

Tgt Ion: 43 Resp: 489  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.1 31.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0  
Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 1.252 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062845.D

Acq: 11 Aug 2020 21:34

Instrument :

MSVOA\_N

ClientSampleId :

ES-TOTE-COMP

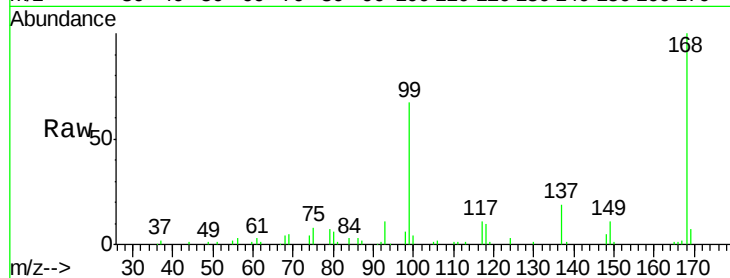
Tgt Ion: 56 Resp: 2981

Ion Ratio Lower Upper

56 100

69 178.8 28.1 42.1#

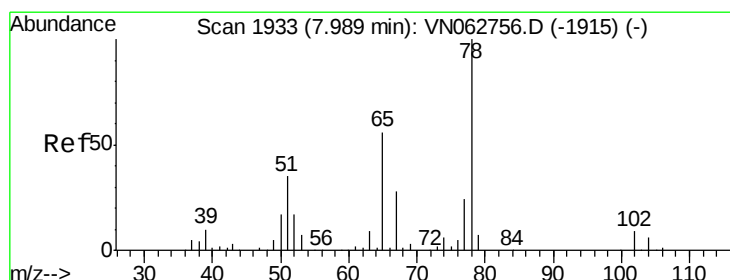
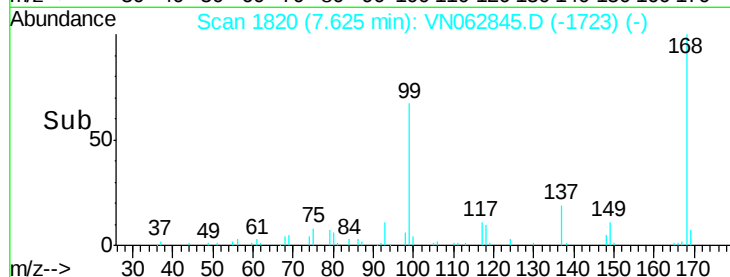
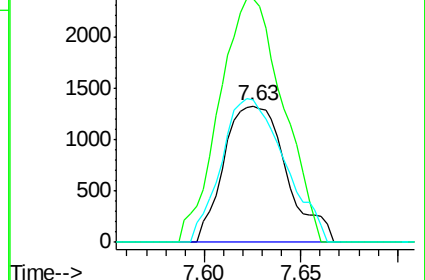
84 104.8 66.8 100.2#



Abundance Ion 56.00 (55.70 to 56.70): VN062756.D (-1795) (-)

Ion 69.00 (68.70 to 69.70): VN062756.D (-1795) (-)

Ion 84.00 (83.70 to 84.70): VN062756.D (-1795) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.335 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN062845.D

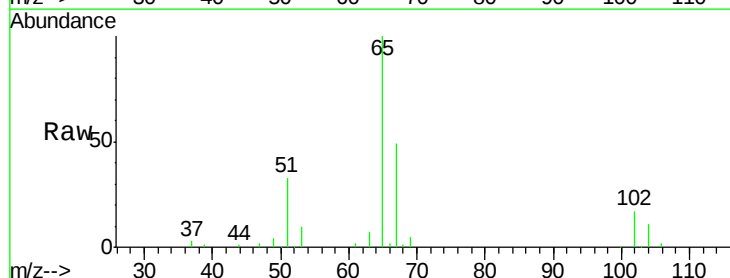
Acq: 11 Aug 2020 21:34

Tgt Ion: 65 Resp: 102757

Ion Ratio Lower Upper

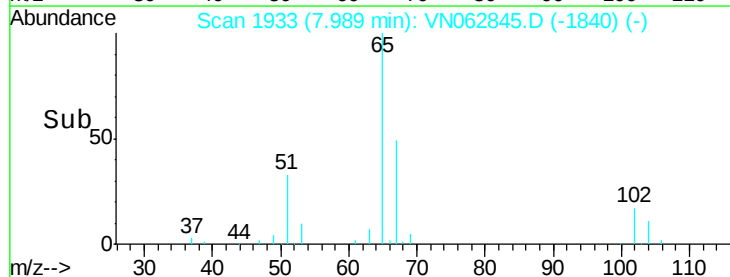
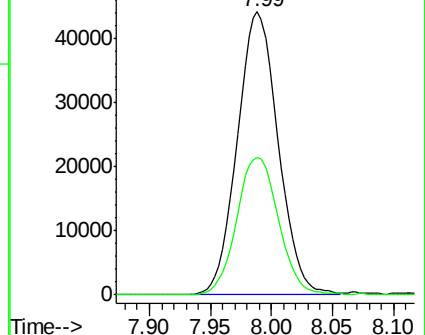
65 100

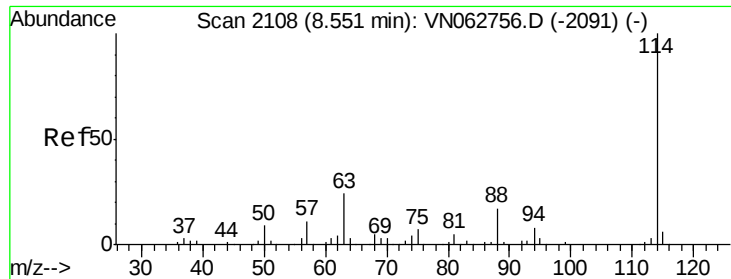
67 49.6 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN062756.D (-1915) (-)

Ion 66.90 (66.60 to 67.60): VN062756.D (-1915) (-)

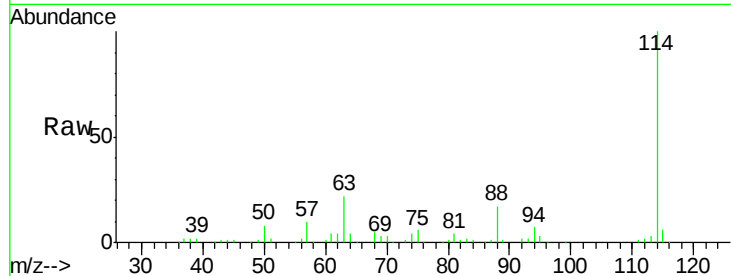




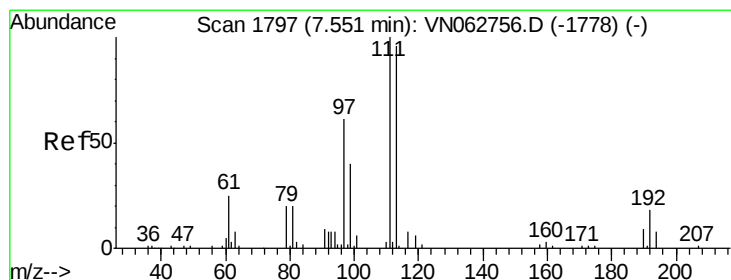
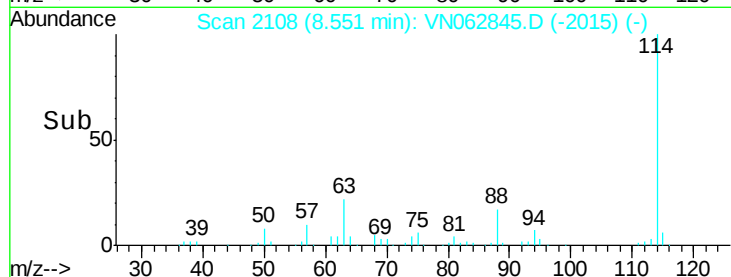
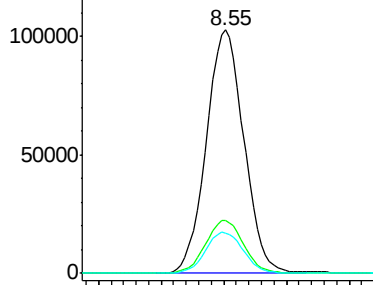
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.55 min Scan# 2108  
Delta R.T. -0.00 min  
Lab File: VN062845.D  
Acq: 11 Aug 2020 21:34

Instrument :  
MSVOA\_N  
ClientSampleId :  
ES-TOTE-COMP

Tgt Ion:114 Resp: 214283  
Ion Ratio Lower Upper  
114 100  
63 21.6 0.0 47.6  
88 16.7 0.0 34.4

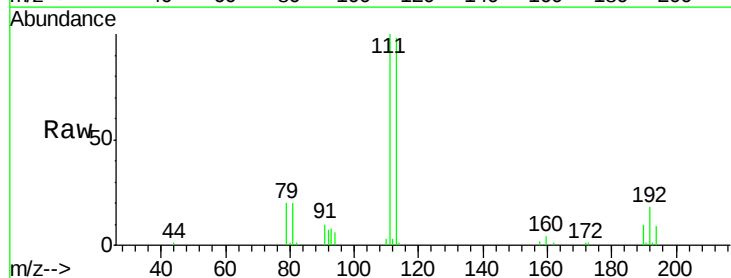


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 87.90 (87.60 to 88.60): VN

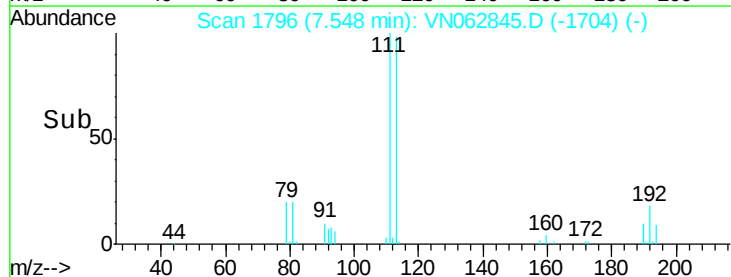
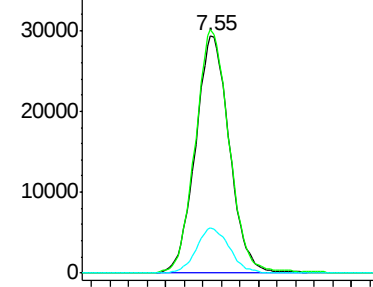


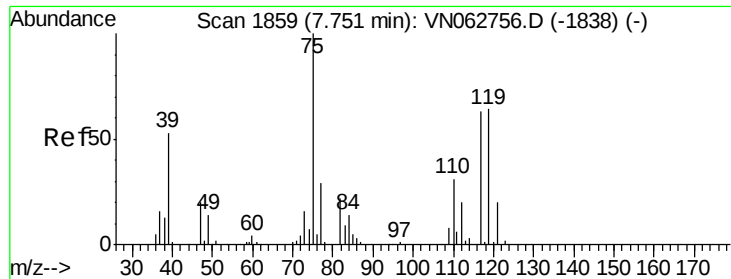
#35  
Dibromofluoromethane  
Concen: 50.660 ug/l  
RT: 7.55 min Scan# 1796  
Delta R.T. -0.00 min  
Lab File: VN062845.D  
Acq: 11 Aug 2020 21:34

Tgt Ion:113 Resp: 74258  
Ion Ratio Lower Upper  
113 100  
111 102.4 81.8 122.6  
192 18.5 15.0 22.4



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

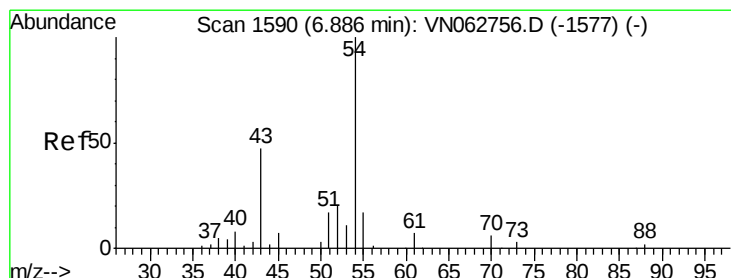
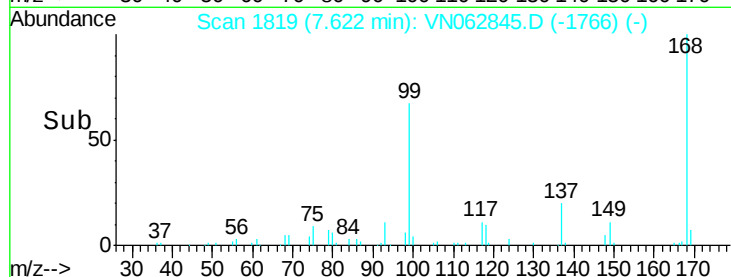
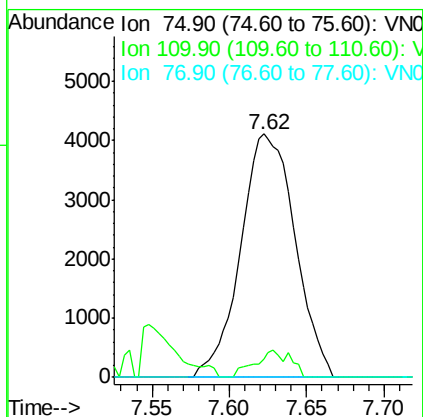
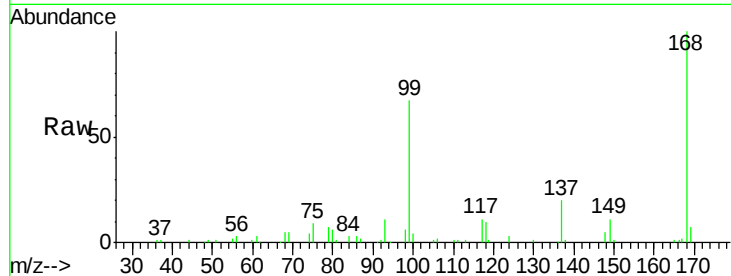




#36  
 1,1-Dichloropropene  
 Concen: 4.821 ug/l  
 RT: 7.62 min Scan# 1819  
 Delta R.T. -0.13 min  
 Lab File: VN062845.D  
 Acq: 11 Aug 2020 21:34

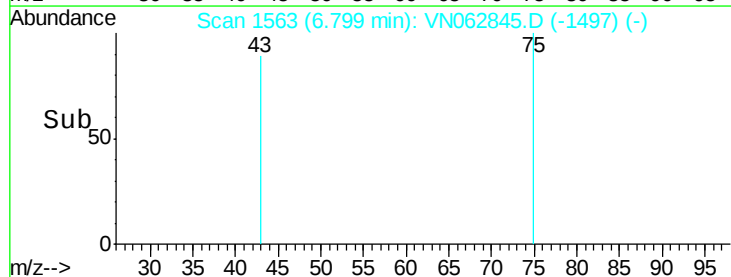
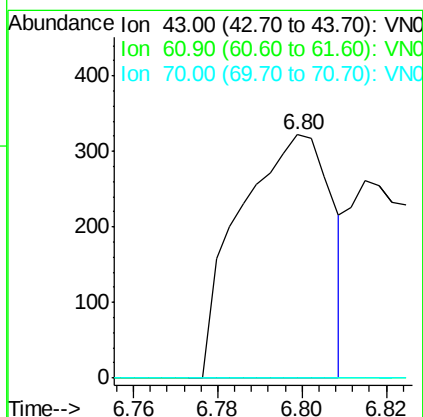
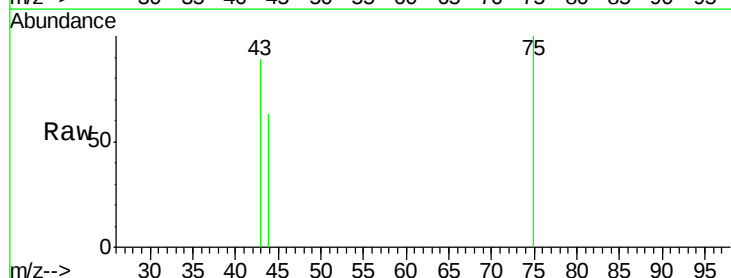
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 ES-TOTE-COMP

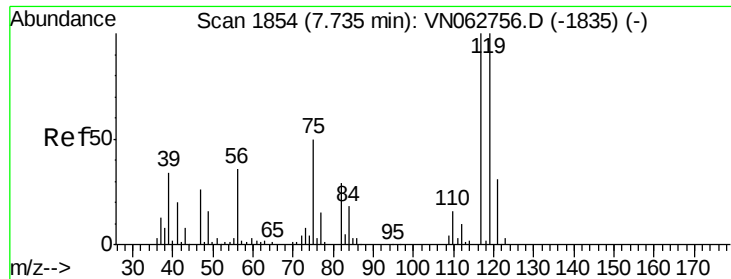
Tgt Ion: 75 Resp: 10058  
 Ion Ratio Lower Upper  
 75 100  
 110 7.1 15.6 46.7#  
 77 0.0 24.1 36.1#



#37  
 Ethyl Acetate  
 Concen: 0.224 ug/l  
 RT: 6.80 min Scan# 1563  
 Delta R.T. -0.09 min  
 Lab File: VN062845.D  
 Acq: 11 Aug 2020 21:34

Tgt Ion: 43 Resp: 489  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 12.1 18.1#  
 70 0.0 8.3 12.5#

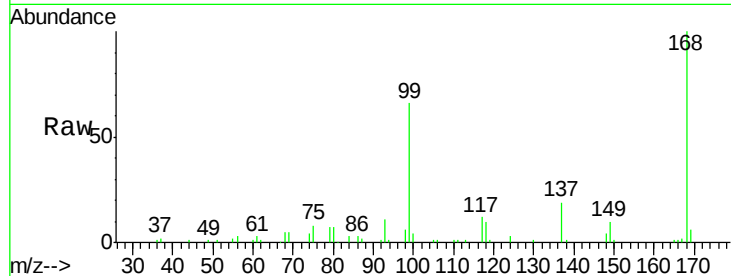




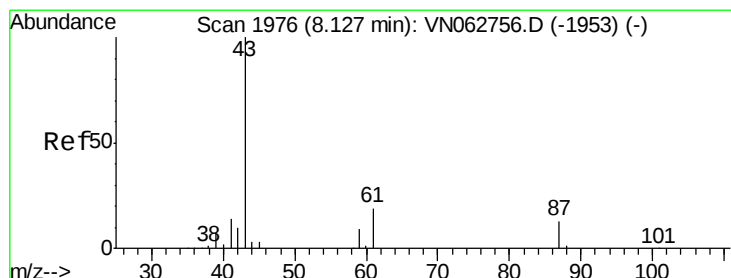
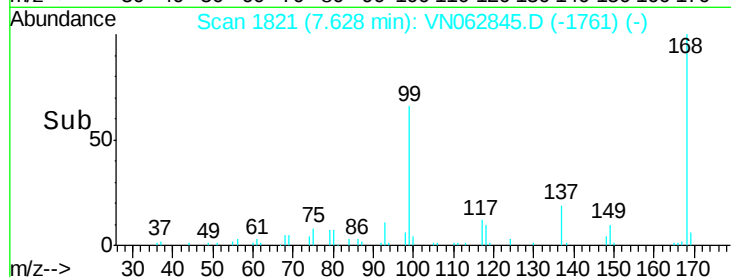
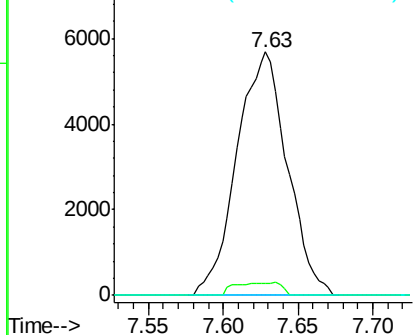
#38  
Carbon Tetrachloride  
Concen: 5.403 ug/l  
RT: 7.63 min Scan# 1821  
Delta R.T. -0.11 min  
Lab File: VN062845.D  
Acq: 11 Aug 2020 21:34

Instrument :  
MSVOA\_N  
ClientSampleId :  
ES-TOTE-COMP

Tgt Ion: 117 Resp: 13333  
Ion Ratio Lower Upper  
117 100  
119 4.7 79.4 119.2#  
121 0.0 24.9 37.3#

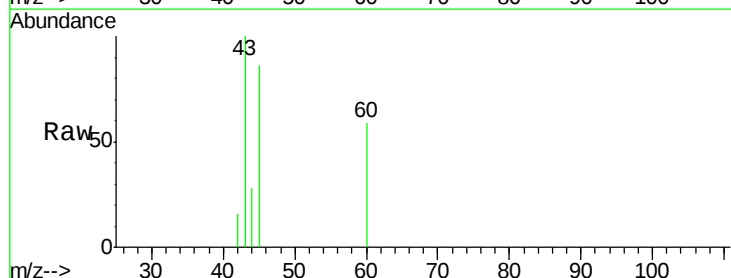


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

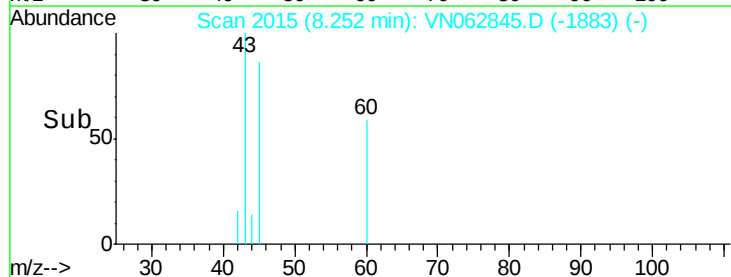
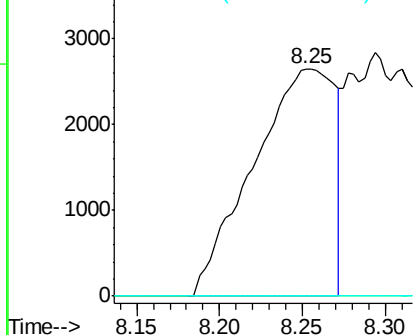


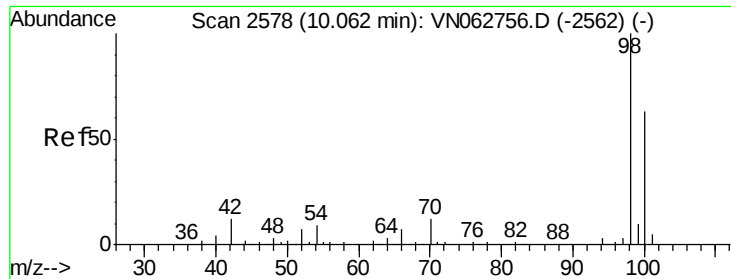
#43  
Isopropyl Acetate  
Concen: 2.494 ug/l  
RT: 8.25 min Scan# 2015  
Delta R.T. 0.13 min  
Lab File: VN062845.D  
Acq: 11 Aug 2020 21:34

Tgt Ion: 43 Resp: 9068  
Ion Ratio Lower Upper  
43 100  
61 0.0 15.8 23.6#  
87 0.0 9.9 14.9#



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





#50

Toluene-d8

Concen: 47.529 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. -0.00 min

Lab File: VN062845.D

Acq: 11 Aug 2020 21:34

Instrument :

MSVOA\_N

ClientSampleId :

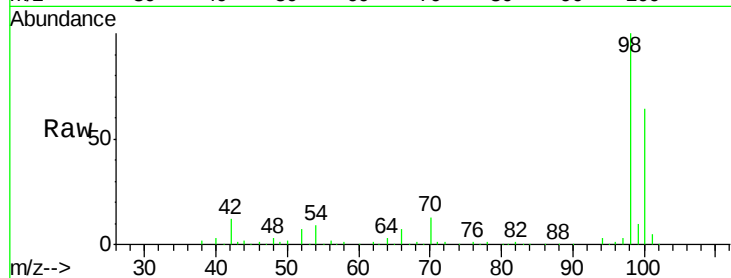
ES-TOTE-COMP

Tgt Ion: 98 Resp: 271995

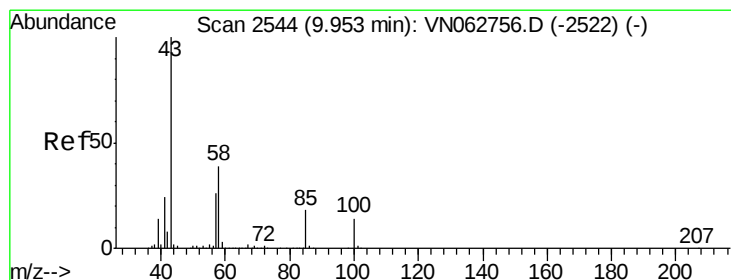
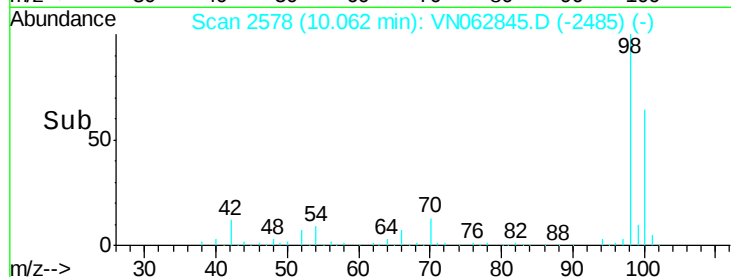
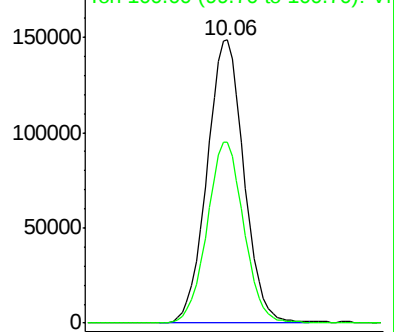
Ion Ratio Lower Upper

98 100

100 63.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN062756.D (-2562) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.275 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. 0.01 min

Lab File: VN062845.D

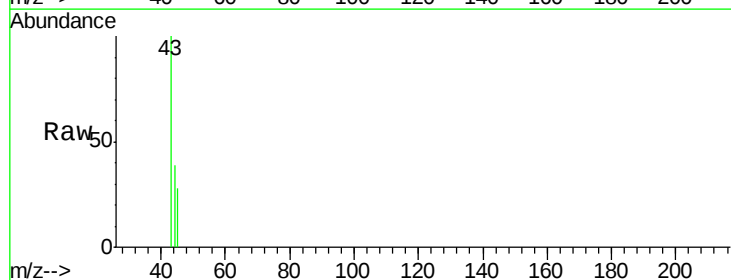
Acq: 11 Aug 2020 21:34

Tgt Ion: 43 Resp: 648

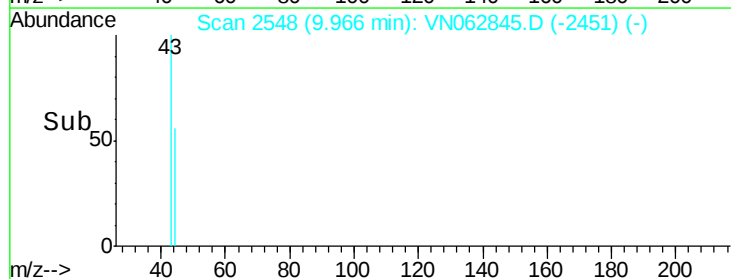
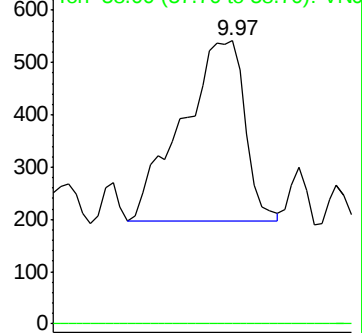
Ion Ratio Lower Upper

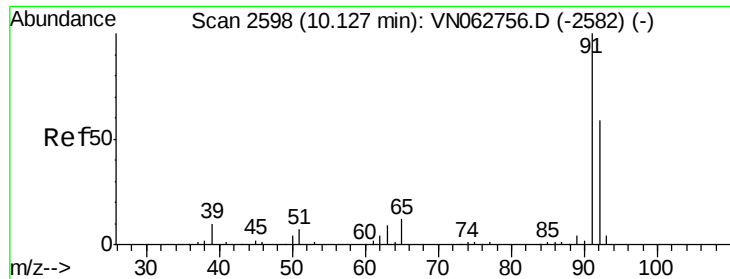
43 100

58 0.0 31.1 46.7#



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-2522) (-)





#52

Toluene

Concen: 57.703 ug/l

RT: 10.13 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VN062845.D

Acq: 11 Aug 2020 21:34

Instrument :

MSVOA\_N

ClientSampleId :

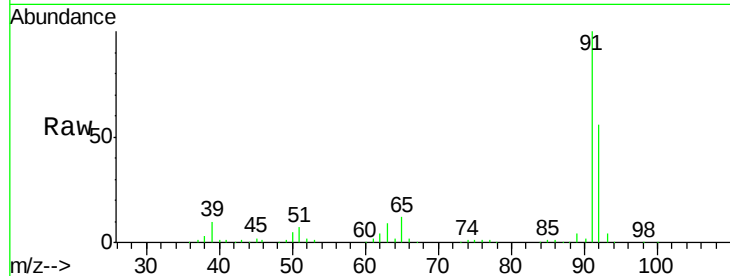
ES-TOTE-COMP

Tgt Ion: 92 Resp: 221821

Ion Ratio Lower Upper

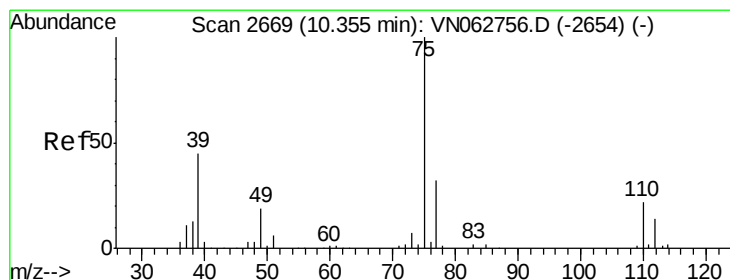
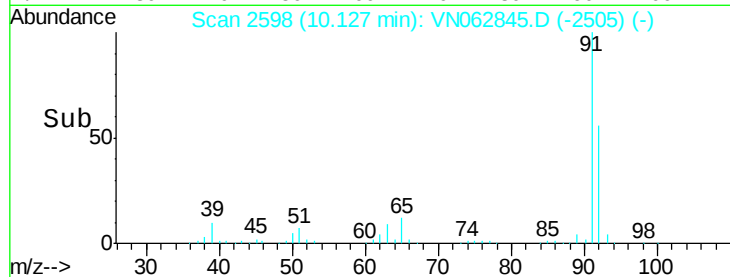
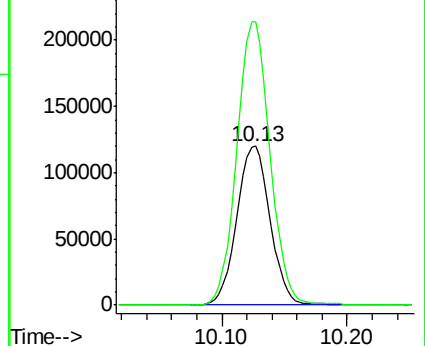
92 100

91 177.8 138.9 208.3



Abundance Ion 92.00 (91.70 to 92.70): VN062845.D (-2505) (-)

Ion 91.00 (90.70 to 91.70): VN062845.D (-2505) (-)



#53

t-1,3-Dichloropropene

Concen: 1.049 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. -0.23 min

Lab File: VN062845.D

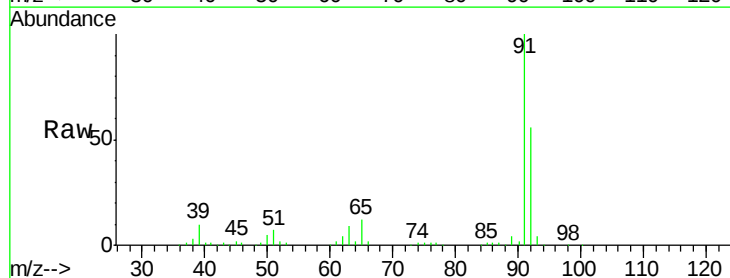
Acq: 11 Aug 2020 21:34

Tgt Ion: 75 Resp: 2862

Ion Ratio Lower Upper

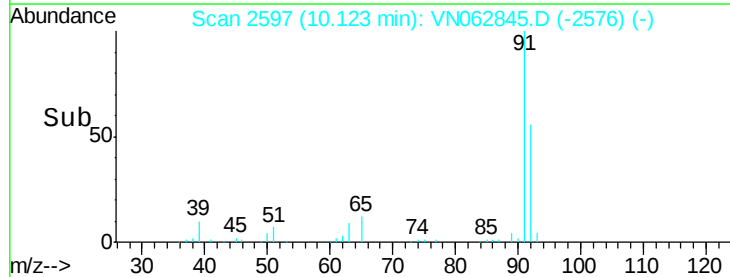
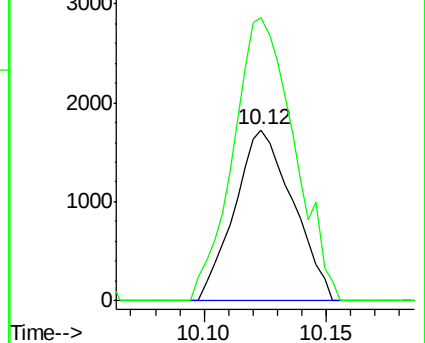
75 100

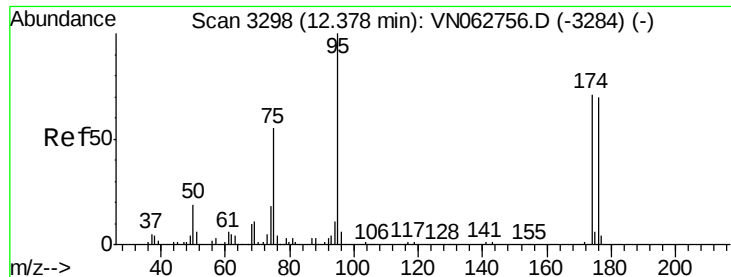
77 165.5 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VN062845.D (-2576) (-)

Ion 76.90 (76.60 to 77.60): VN062845.D (-2576) (-)

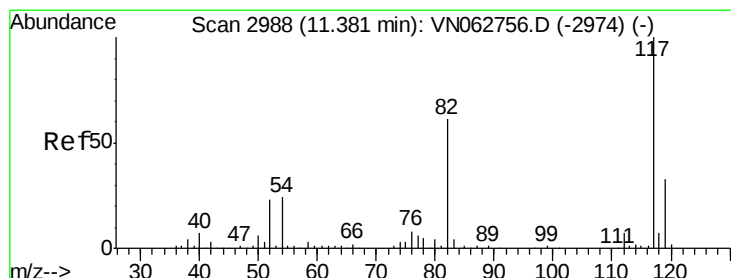
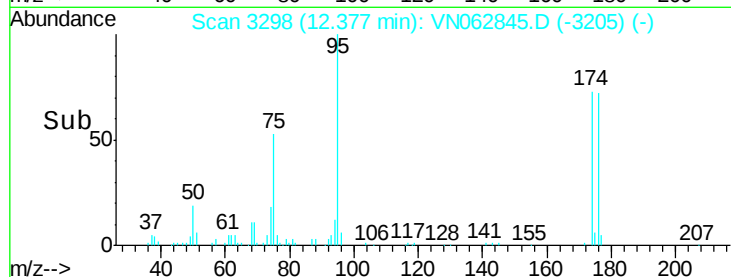
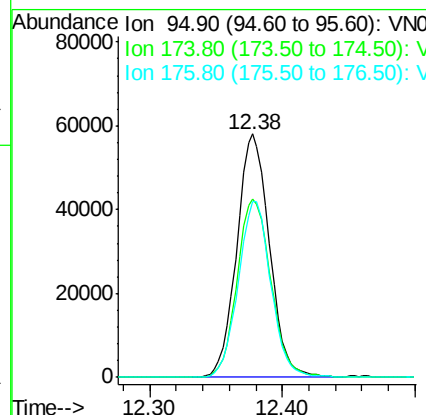
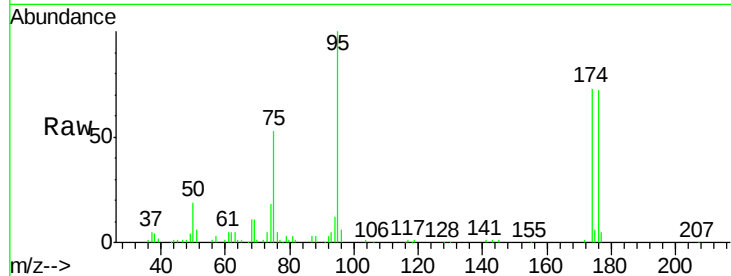




#62  
4-Bromofluorobenzene  
Concen: 45.970 ug/l  
RT: 12.38 min Scan# 3298  
Delta R.T. -0.00 min  
Lab File: VN062845.D  
Acq: 11 Aug 2020 21:34

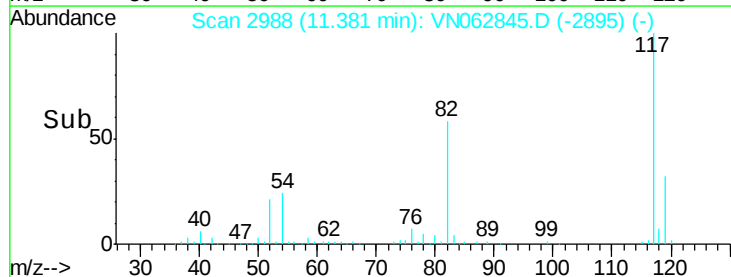
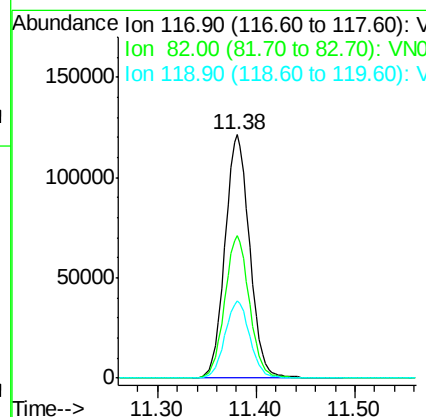
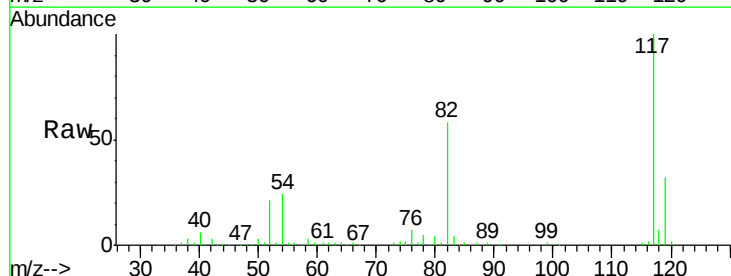
Instrument :  
MSVOA\_N  
ClientSampleId :  
ES-TOTE-COMP

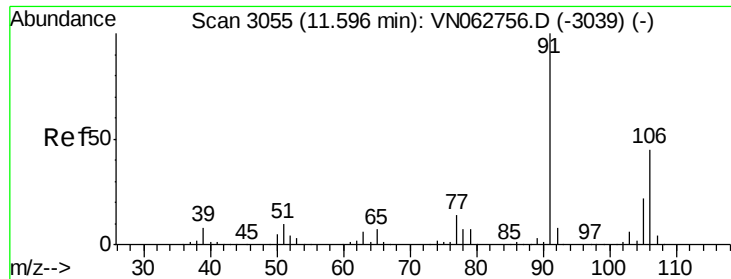
Tgt Ion: 95 Resp: 99414  
Ion Ratio Lower Upper  
95 100  
174 75.9 0.0 144.8  
176 72.1 0.0 142.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. -0.00 min  
Lab File: VN062845.D  
Acq: 11 Aug 2020 21:34

Tgt Ion: 117 Resp: 212987  
Ion Ratio Lower Upper  
117 100  
82 58.5 49.0 73.4  
119 31.9 26.2 39.2

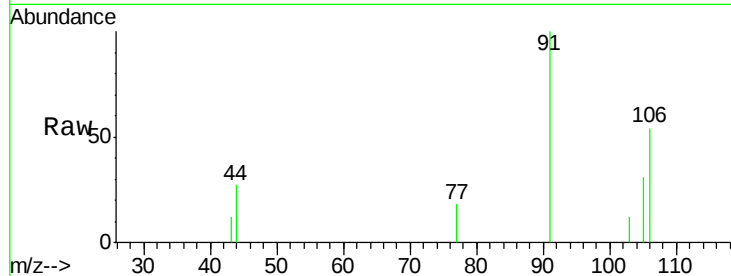




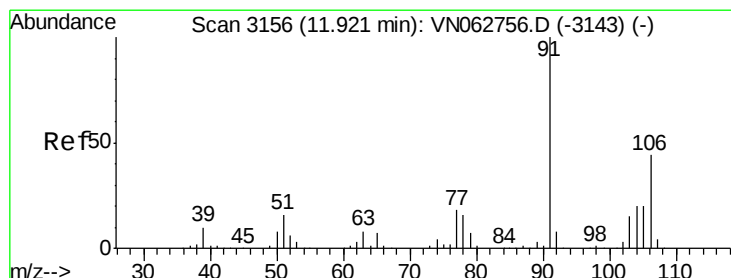
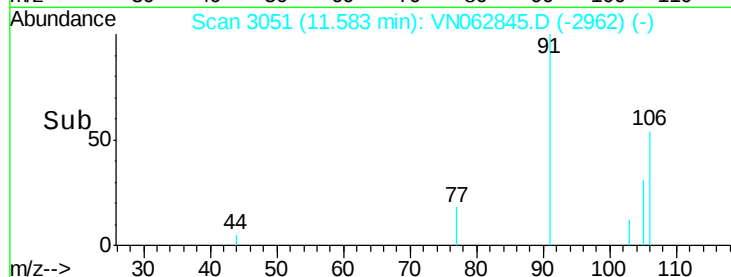
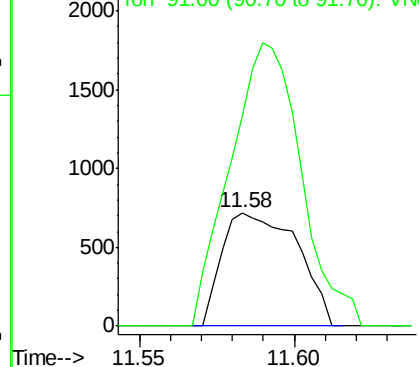
#68  
m/p-Xylenes  
Concen: 0.422 ug/l  
RT: 11.58 min Scan# 3051  
Delta R.T. -0.01 min  
Lab File: VN062845.D  
Acq: 11 Aug 2020 21:34

Instrument :  
MSVOA\_N  
ClientSampleId :  
ES-TOTE-COMP

Tgt Ion:106 Resp: 1220  
Ion Ratio Lower Upper  
106 100  
91 235.4 175.9 263.9

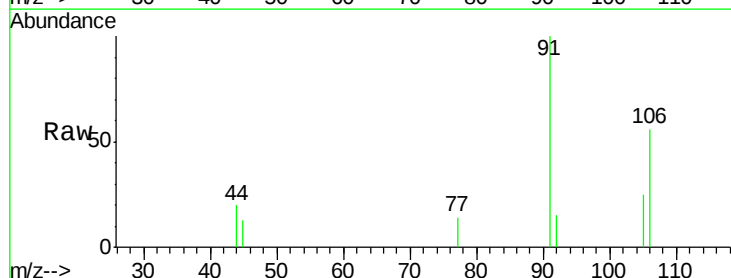


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN0

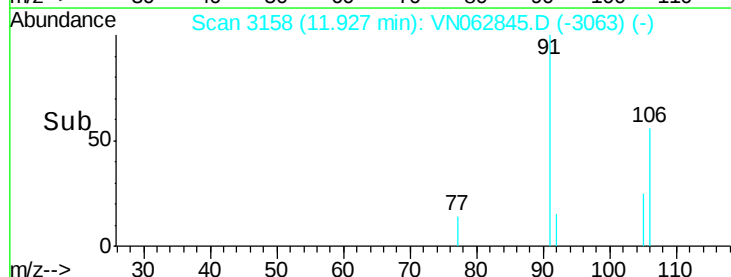
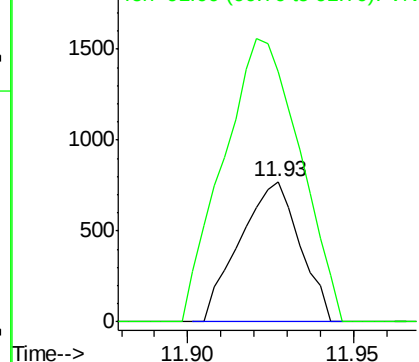


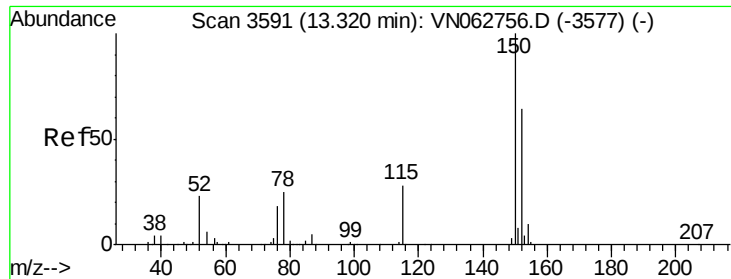
#69  
o-Xylene  
Concen: 0.360 ug/l  
RT: 11.93 min Scan# 3158  
Delta R.T. 0.01 min  
Lab File: VN062845.D  
Acq: 11 Aug 2020 21:34

Tgt Ion:106 Resp: 975  
Ion Ratio Lower Upper  
106 100  
91 256.7 115.8 347.4



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VN062845.D

Acq: 11 Aug 2020 21:34

Instrument :

MSVOA\_N

ClientSampleId :

ES-TOTE-COMP

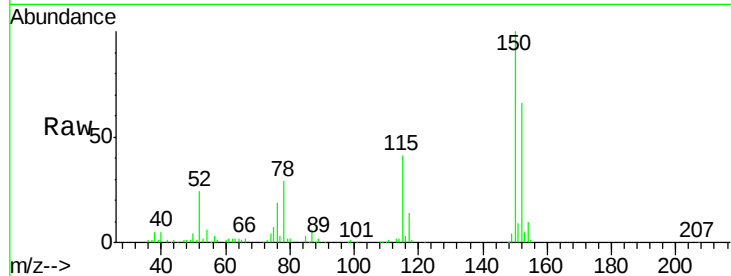
Tgt Ion:152 Resp: 80217

Ion Ratio Lower Upper

152 100

115 61.2 31.6 94.8

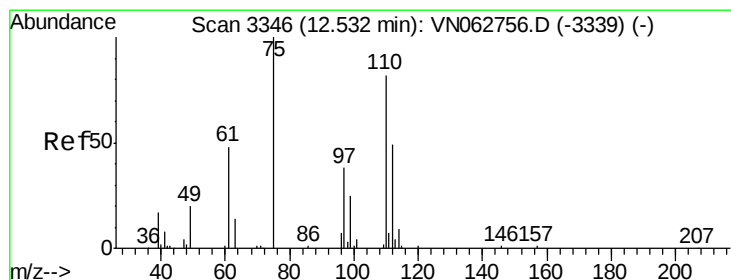
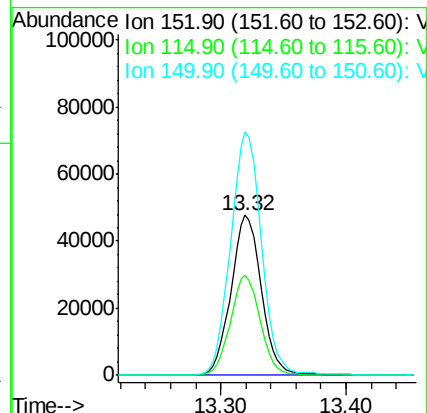
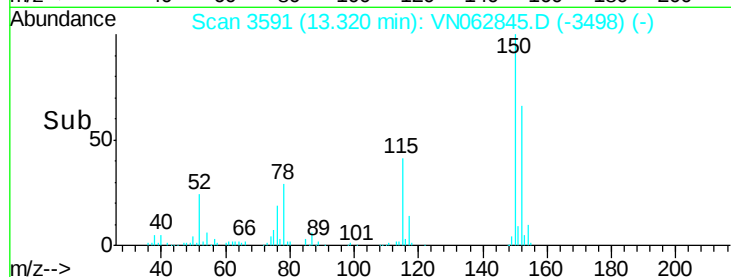
150 154.4 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 24.944 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062845.D

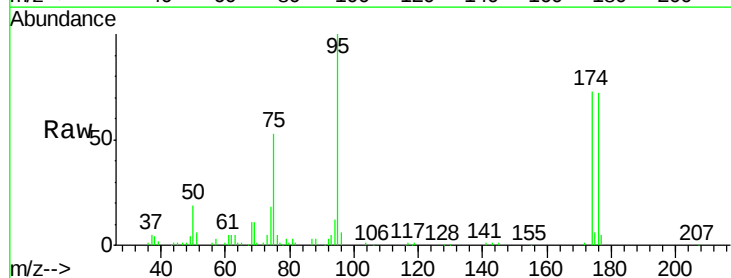
Acq: 11 Aug 2020 21:34

Tgt Ion: 75 Resp: 53962

Ion Ratio Lower Upper

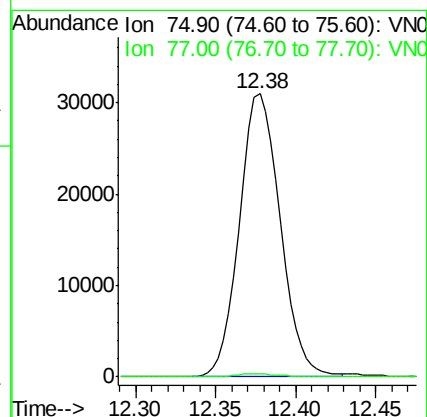
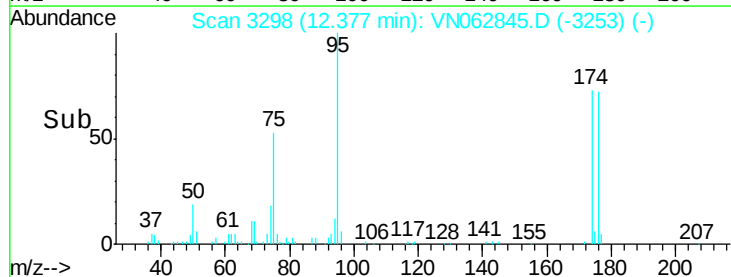
75 100

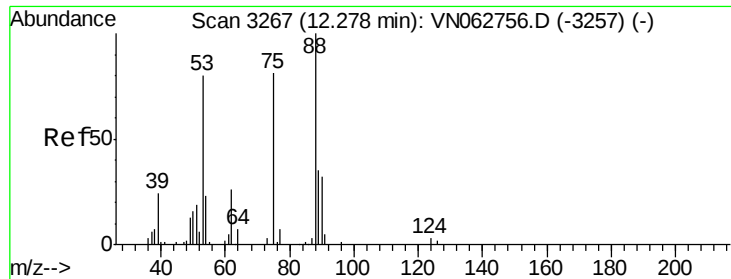
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 76.146 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062845.D

Acq: 11 Aug 2020 21:34

Instrument :

MSVOA\_N

ClientSampleId :

ES-TOTE-COMP

Tgt Ion: 75 Resp: 53962

Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

89 0.0 36.2 54.2#

