

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042120\  
 Data File : VX015823.D  
 Acq On : 22 Apr 2020 03:13  
 Operator : JC/SP  
 Sample : L2353-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VNJ-240

Quant Time: Apr 22 04:27:58 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 982686   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 1493373  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1452738  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 820830   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.04  | 65   | 533698   | 38.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 77.02%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 426194   | 44.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.30%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 1793349  | 51.03 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.06% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 758529   | 53.11 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.22% |          |

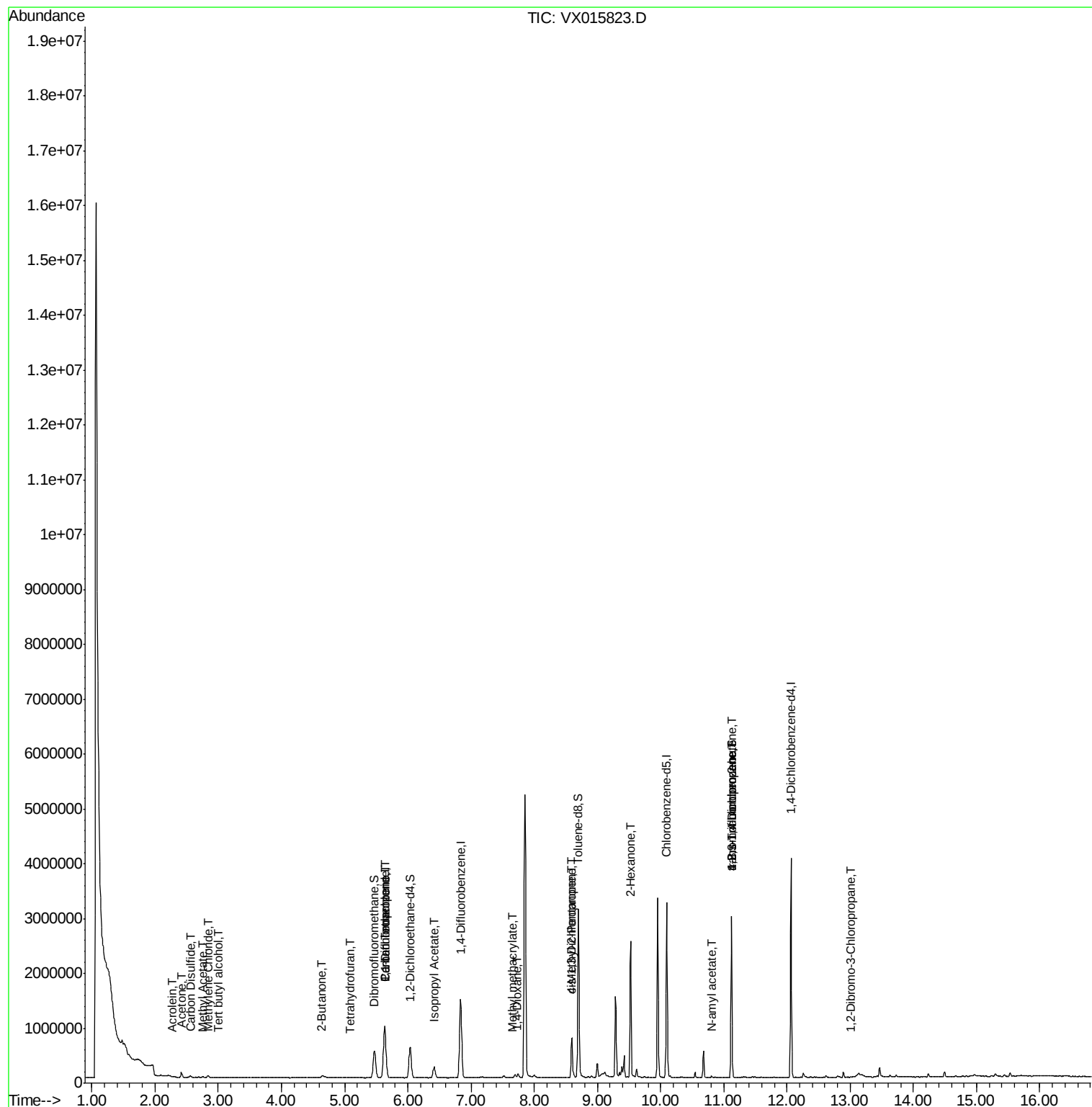
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.62  | 94   | 359      | Below Cal | #      | 48     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 3103     | 0.935     | ug/l # | 93     |
| 13) Acrolein                   | 2.28  | 56   | 1605     | 0.849     | ug/l # | 63     |
| 16) Acetone                    | 2.42  | 43   | 102188   | 17.162    | ug/l   | 97     |
| 17) Carbon Disulfide           | 2.55  | 76   | 34399    | 1.215     | ug/l # | 91     |
| 18) Methyl Acetate             | 2.75  | 43   | 15053    | 0.990     | ug/l   | 93     |
| 20) Methylene Chloride         | 2.84  | 84   | 16977    | 1.526     | ug/l # | 89     |
| 25) 2-Butanone                 | 4.64  | 43   | 25476    | 2.660     | ug/l   | 97     |
| 29) Tetrahydrofuran            | 5.09  | 42   | 2583     | 0.420     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 64153    | 4.662     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 86491    | 5.803     | ug/l # | 19     |
| 43) Isopropyl Acetate          | 6.42  | 43   | 297738   | 9.844     | ug/l   | 99     |
| 48) Methyl methacrylate        | 7.65  | 41   | 16892    | 1.118     | ug/l # | 18     |
| 49) 1,4-Dioxane                | 7.73  | 88   | 3035     | 10.769    | ug/l # | 20     |
| 51) 4-Methyl-2-Pentanone       | 8.59  | 43   | 290322   | 16.938    | ug/l # | 48     |
| 54) cis-1,3-Dichloropropene    | 8.60  | 75   | 117523   | 6.383     | ug/l # | 48     |
| 59) 2-Hexanone                 | 9.53  | 43   | 300354   | 23.211    | ug/l # | 53     |
| 74) N-amyl acetate             | 10.81 | 43   | 24814    | 0.830     | ug/l # | 52     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 374127   | 22.164    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 374127   | 53.182    | ug/l # | 10     |
| 92) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 1511     | 0.290     | ug/l # | 34     |

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

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VNJ-240

Quant Time: Apr 22 04:27:58 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 27 09:35:51 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015823.D

Acq: 22 Apr 2020 03:13

Instrument :

MSVOA\_X

ClientSampleId :

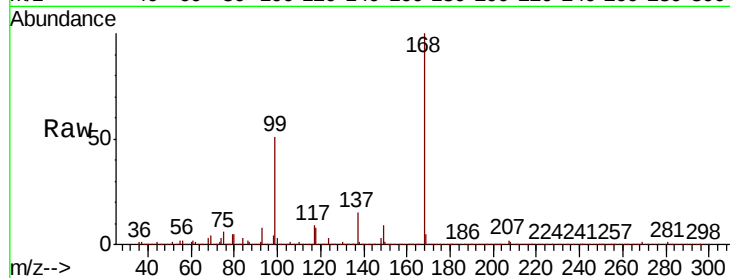
VNJ-240

Tot Ion:168 Resp: 982686

Ion Ratio Lower Upper

168 100

99 51.3 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

300000

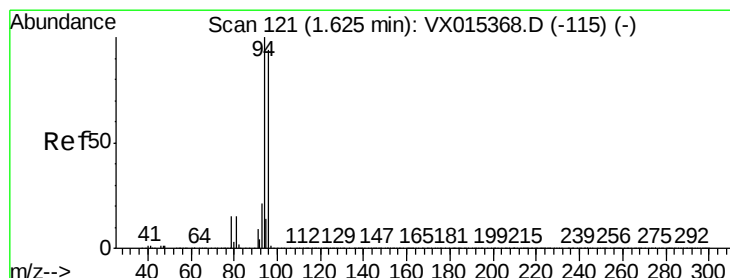
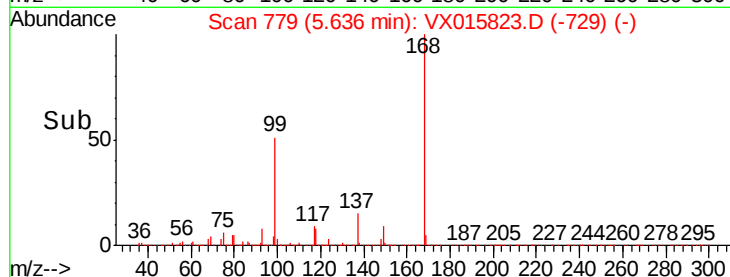
200000

100000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX015823.D

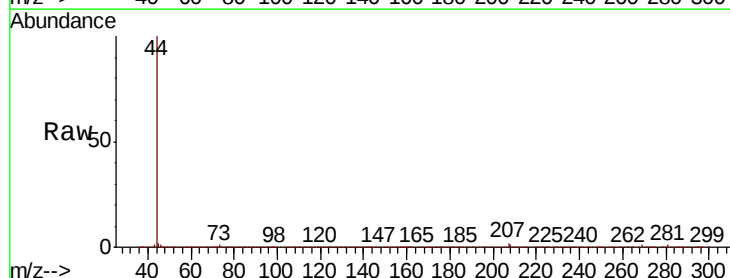
Acq: 22 Apr 2020 03:13

Tgt Ion: 94 Resp: 359

Ion Ratio Lower Upper

94 100

96 43.0 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

2000

1500

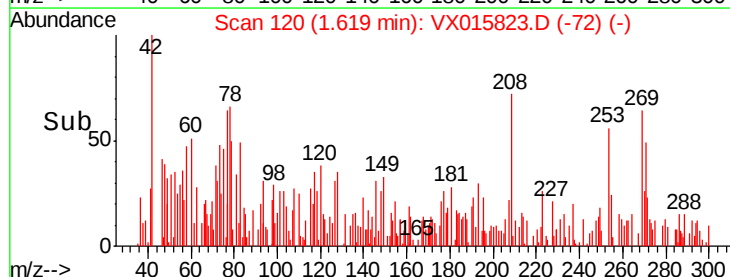
1000

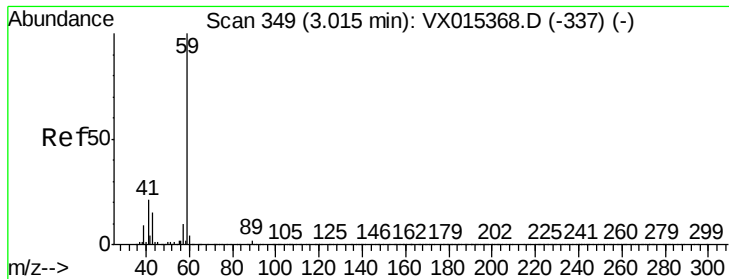
500

0

Time-->

1.61 1.62 1.63

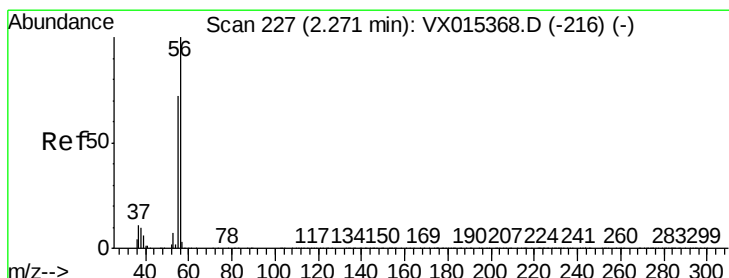
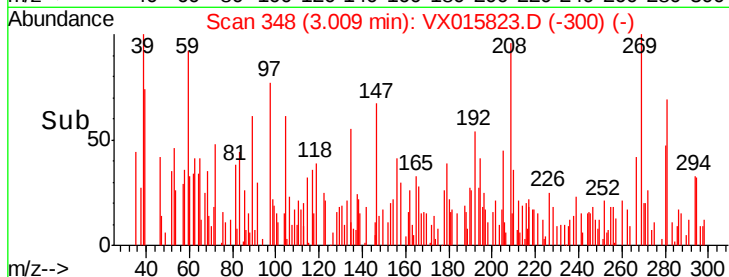
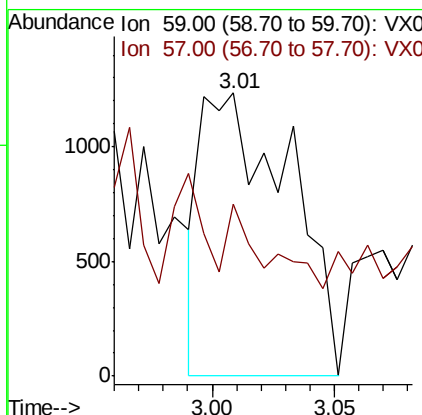
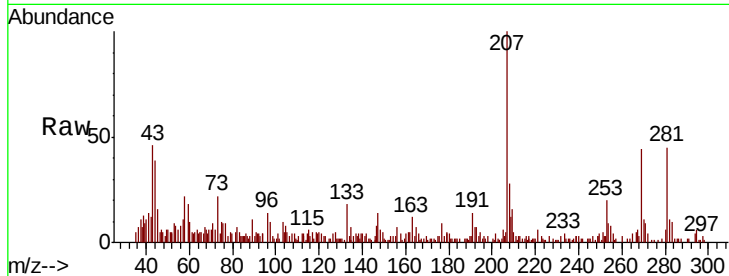




#11  
Tert butyl alcohol  
Concen: 0.935 ug/l  
RT: 3.01 min Scan# 348  
Delta R.T. -0.01 min  
Lab File: VX015823.D  
Acq: 22 Apr 2020 03:13

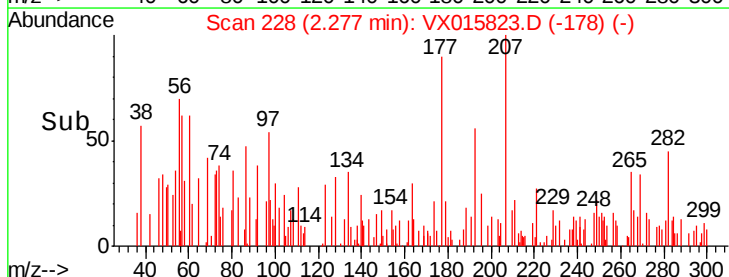
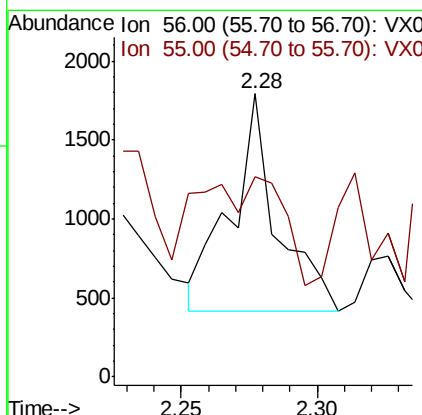
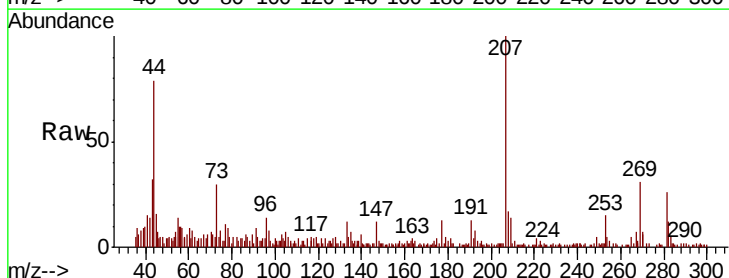
Instrument :  
MSVOA\_X  
ClientSampled :  
VNJ-240

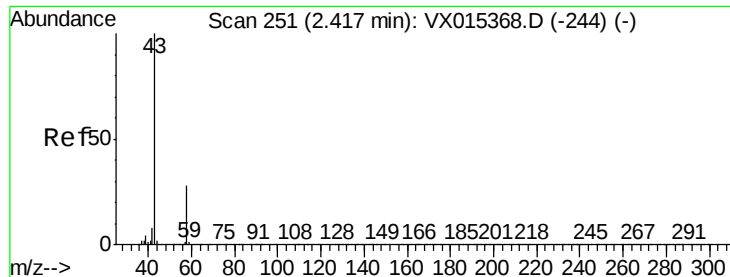
Tot Ion: 59 Resp: 3103  
Ion Ratio Lower Upper  
59 100  
57 12.8 8.1 12.1#



#13  
Acrolein  
Concen: 0.849 ug/l  
RT: 2.28 min Scan# 228  
Delta R.T. 0.01 min  
Lab File: VX015823.D  
Acq: 22 Apr 2020 03:13

Tgt Ion: 56 Resp: 1605  
Ion Ratio Lower Upper  
56 100  
55 40.3 57.0 85.4#





#16

Acetone

Concen: 17.162 ug/l

RT: 2.42 min Scan# 252

Delta R.T. 0.01 min

Lab File: VX015823.D

Acq: 22 Apr 2020 03:13

Instrument :

MSVOA\_X

ClientSampleId :

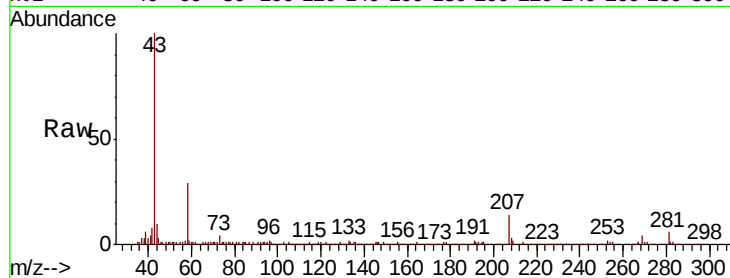
VNJ-240

Tot Ion: 43 Resp: 102188

Ion Ratio Lower Upper

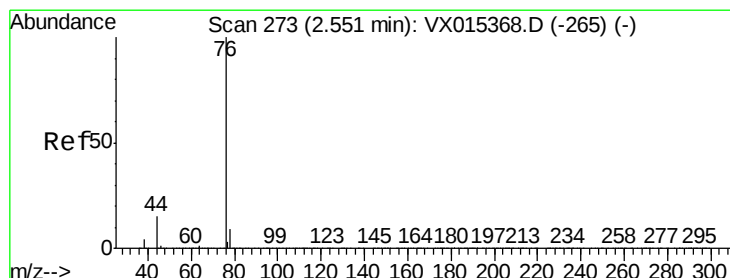
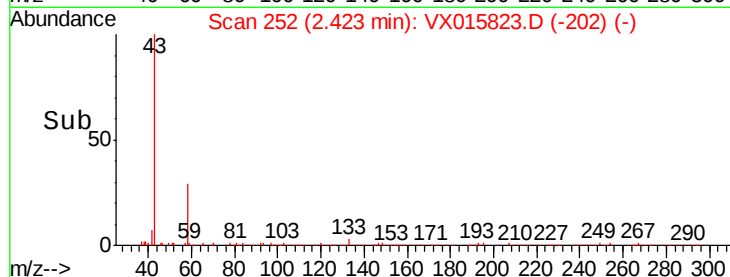
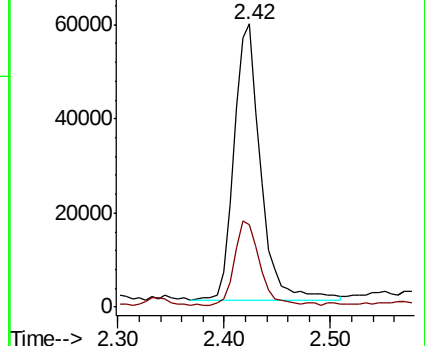
43 100

58 29.3 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.215 ug/l

RT: 2.55 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX015823.D

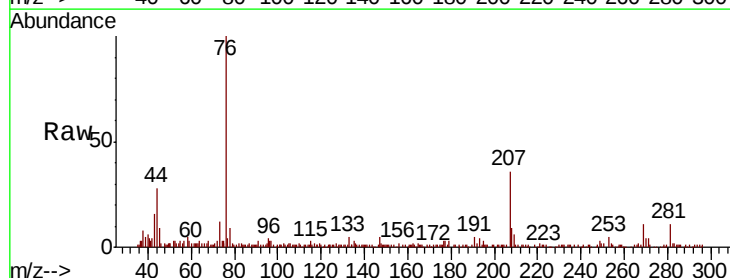
Acq: 22 Apr 2020 03:13

Tgt Ion: 76 Resp: 34399

Ion Ratio Lower Upper

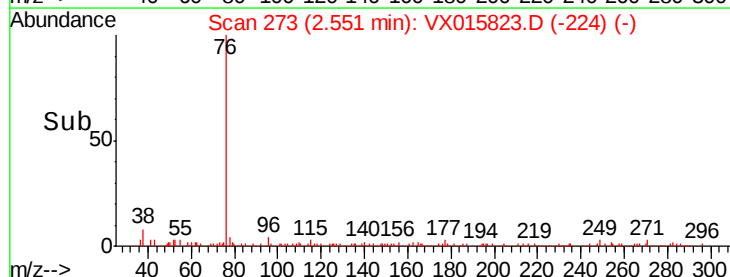
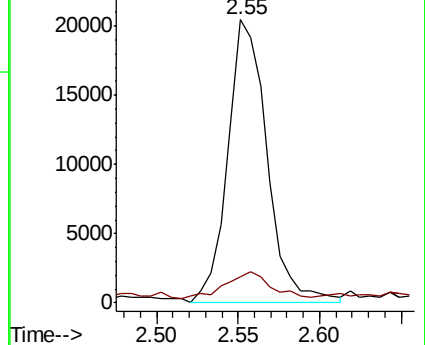
76 100

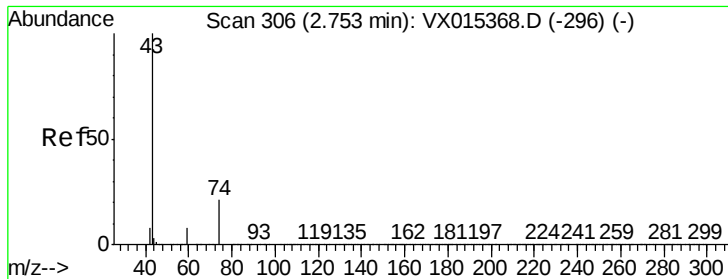
78 5.5 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

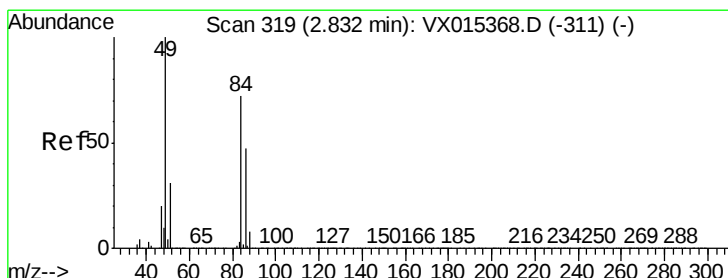
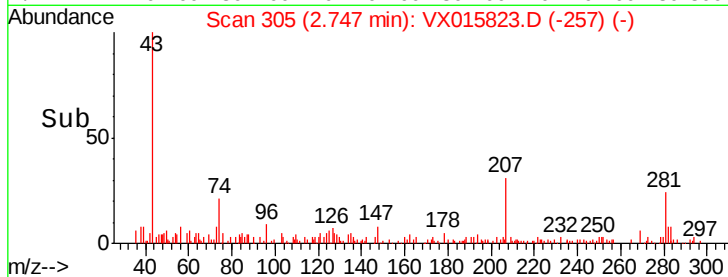
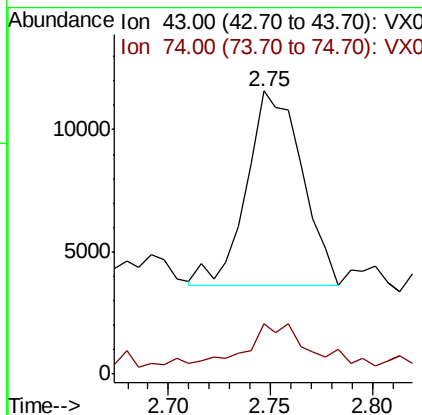
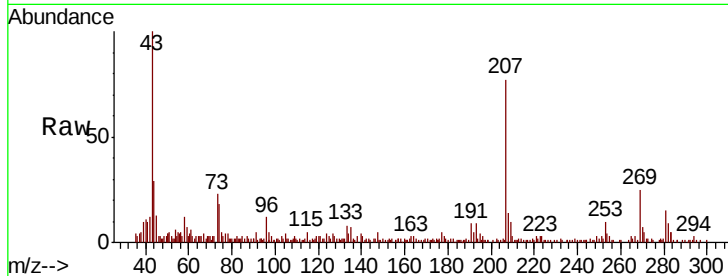




#18  
Methyl Acetate  
Concen: 0.990 ug/l  
RT: 2.75 min Scan# 305  
Delta R.T. -0.01 min  
Lab File: VX015823.D  
Acq: 22 Apr 2020 03:13

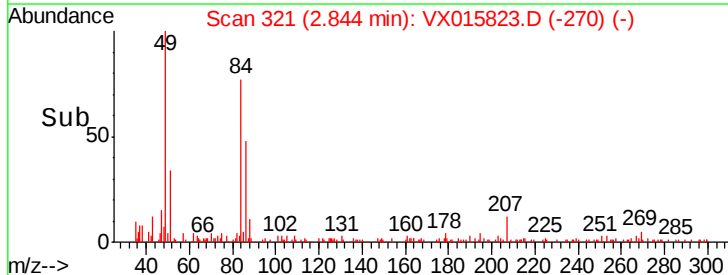
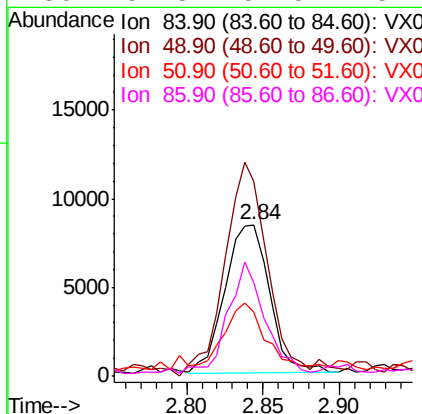
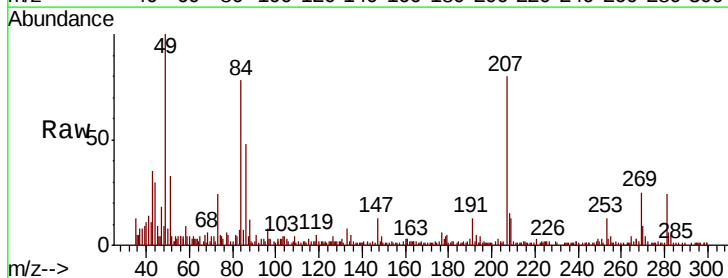
Instrument :  
MSVOA\_X  
ClientSampled :  
VNJ-240

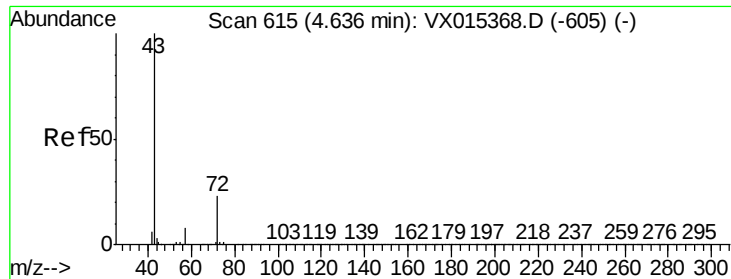
Tot Ion: 43 Resp: 15053  
Ion Ratio Lower Upper  
43 100  
74 23.9 16.5 24.7



#20  
Methylene Chloride  
Concen: 1.526 ug/l  
RT: 2.84 min Scan# 321  
Delta R.T. 0.01 min  
Lab File: VX015823.D  
Acq: 22 Apr 2020 03:13

Tgt Ion: 84 Resp: 16977  
Ion Ratio Lower Upper  
84 100  
49 126.5 111.3 166.9  
51 33.4 34.0 51.0#  
86 57.8 52.5 78.7

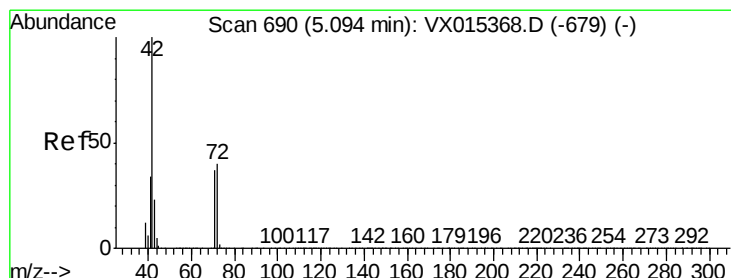
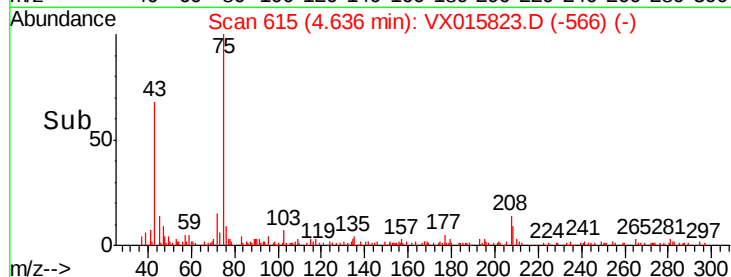
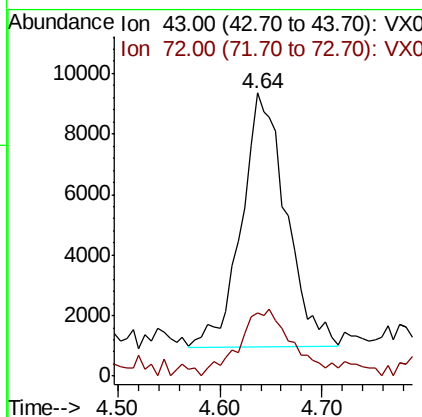
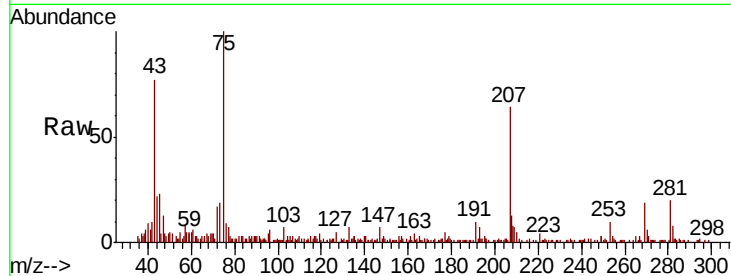




#25  
2-Butanone  
Concen: 2.660 ug/l  
RT: 4.64 min Scan# 615  
Delta R.T. 0.00 min  
Lab File: VX015823.D  
Acq: 22 Apr 2020 03:13

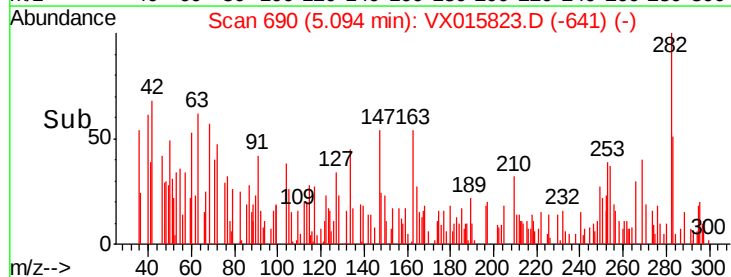
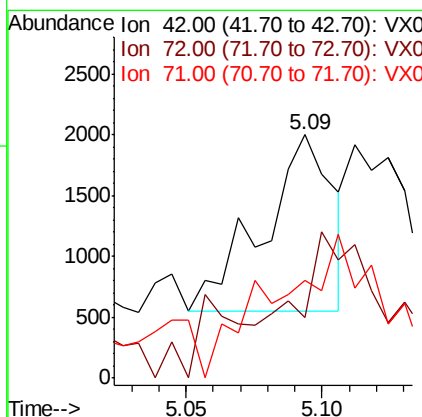
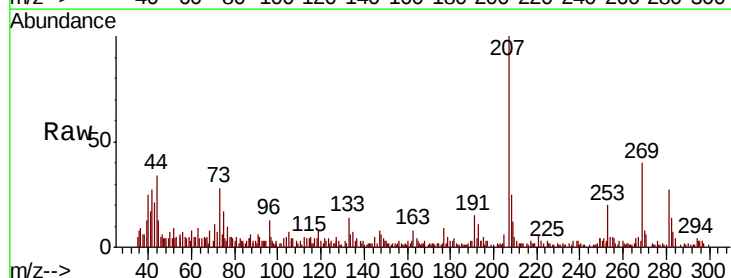
Instrument :  
MSVOA\_X  
ClientSampled :  
VNJ-240

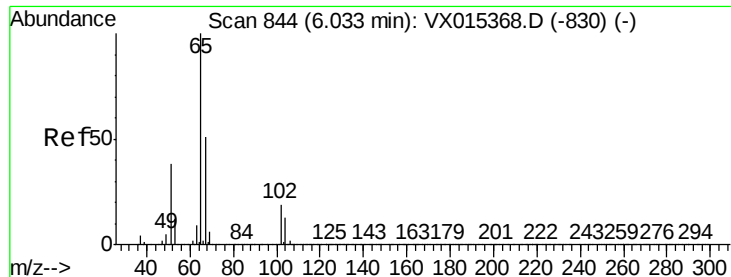
Tot Ion: 43 Resp: 25476  
Ion Ratio Lower Upper  
43 100  
72 22.2 19.0 28.4



#29  
Tetrahydrofuran  
Concen: 0.420 ug/l  
RT: 5.09 min Scan# 690  
Delta R.T. 0.00 min  
Lab File: VX015823.D  
Acq: 22 Apr 2020 03:13

Tgt Ion: 42 Resp: 2583  
Ion Ratio Lower Upper  
42 100  
72 124.5 31.7 47.5#  
71 121.4 29.6 44.4#





#33

1,2-Dichloroethane-d4

Concen: 38.507 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015823.D

Acq: 22 Apr 2020 03:13

Instrument :

MSVOA\_X

ClientSampleId :

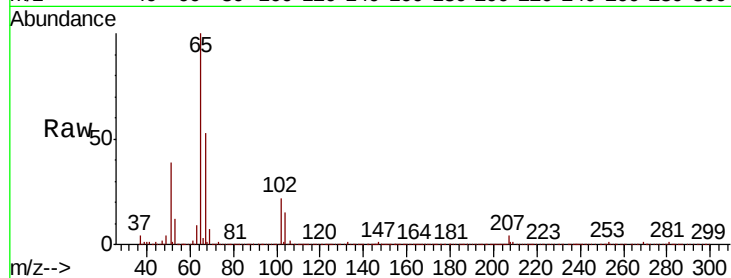
VNJ-240

Tot Ion: 65 Resp: 533698

Ion Ratio Lower Upper

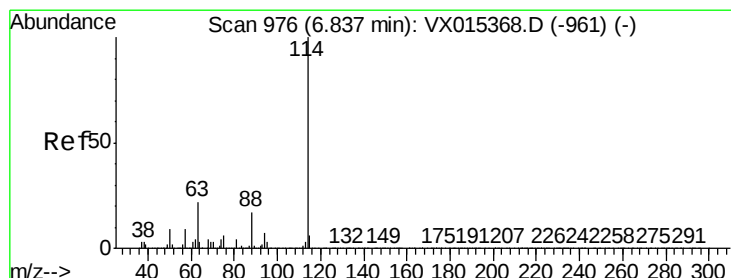
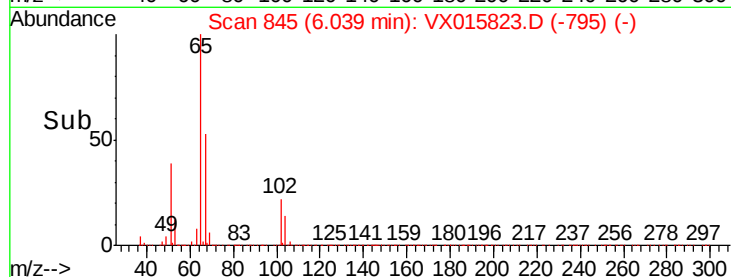
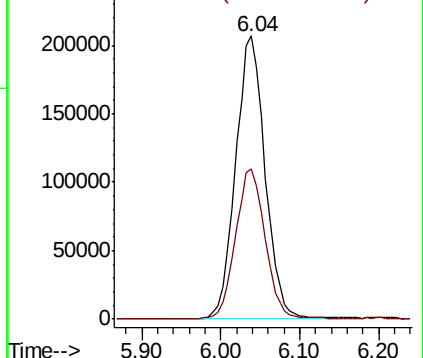
65 100

67 53.2 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015823.D

Acq: 22 Apr 2020 03:13

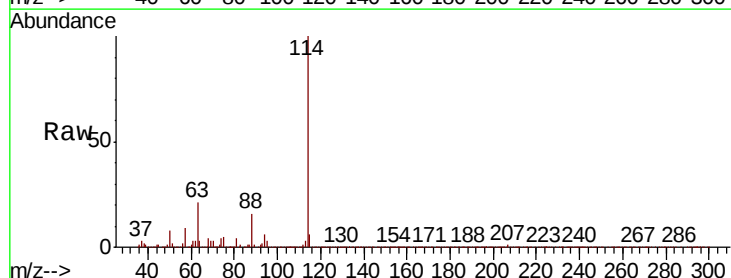
Tgt Ion: 114 Resp: 1493373

Ion Ratio Lower Upper

114 100

63 20.5 0.0 44.2

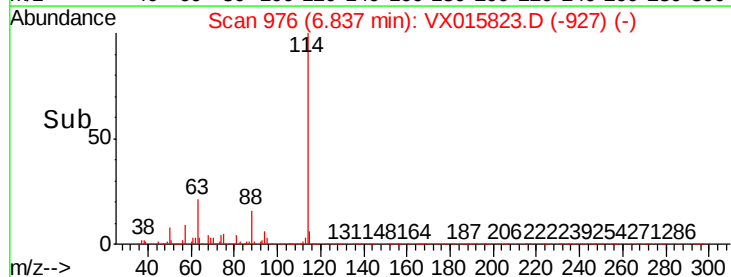
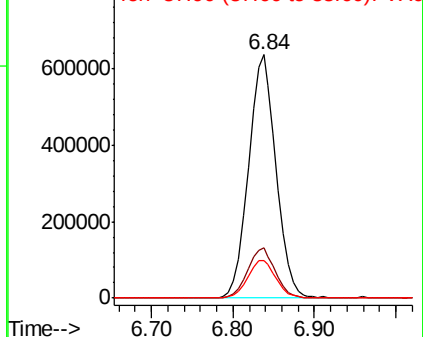
88 15.6 0.0 33.8

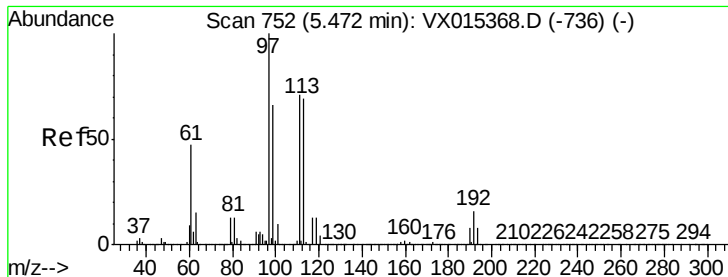


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 44.646 ug/l

RT: 5.47 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX015823.D

Acq: 22 Apr 2020 03:13

Instrument :

MSVOA\_X

ClientSampleId :

VNJ-240

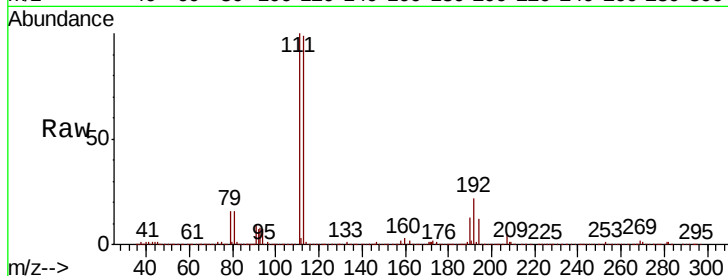
Tot Ion:113 Resp: 426194

Ion Ratio Lower Upper

113 100

111 102.4 81.5 122.3

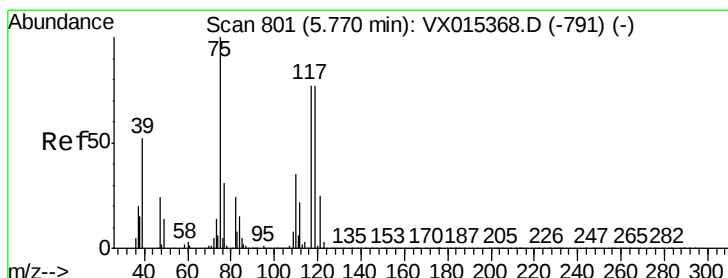
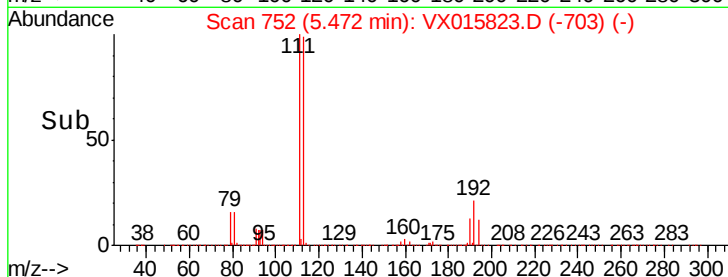
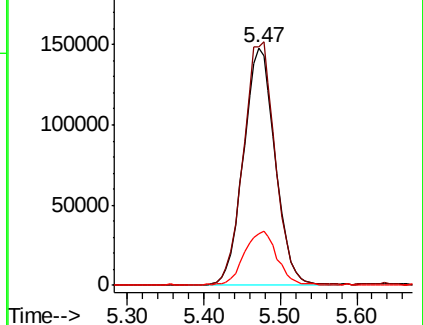
192 23.4 17.8 26.6



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: 4.662 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.14 min

Lab File: VX015823.D

Acq: 22 Apr 2020 03:13

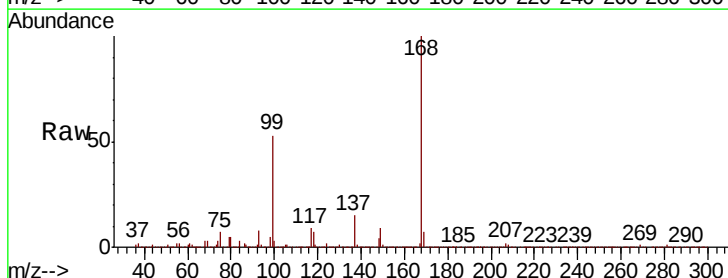
Tgt Ion: 75 Resp: 64153

Ion Ratio Lower Upper

75 100

110 10.6 17.1 51.3#

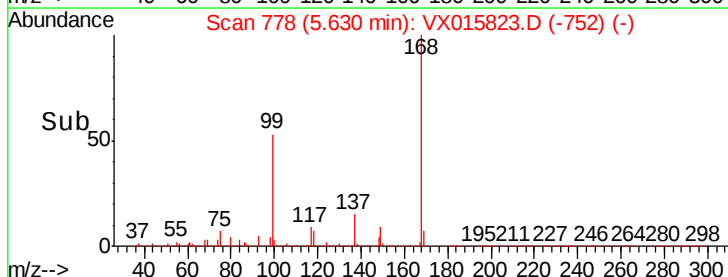
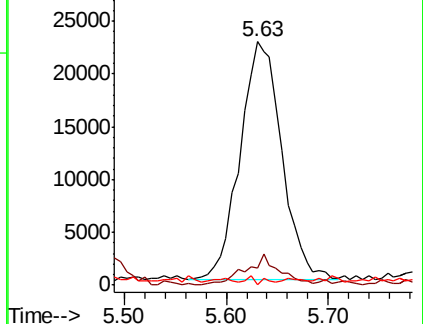
77 0.7 24.6 36.8#

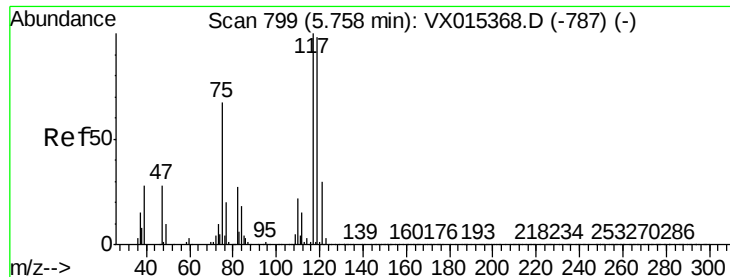


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.803 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015823.D

Acq: 22 Apr 2020 03:13

Instrument :

MSVOA\_X

ClientSampleId :

VNJ-240

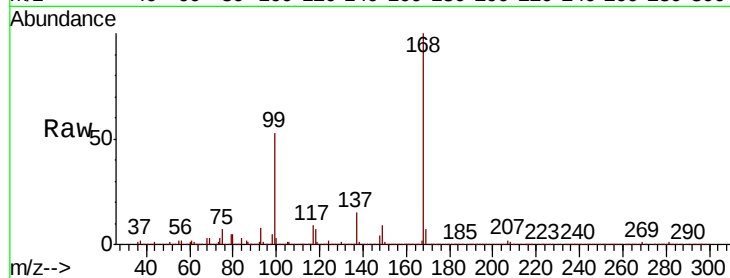
Tot Ion:117 Resp: 86491

Ion Ratio Lower Upper

117 100

119 9.7 78.0 117.0#

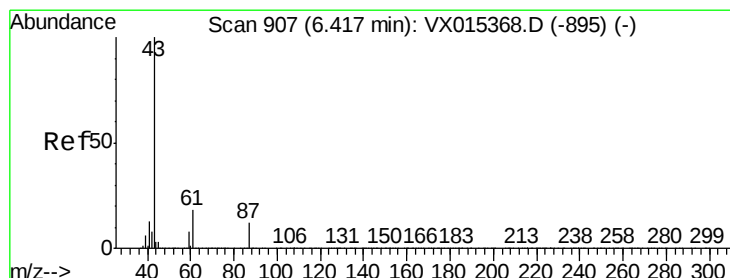
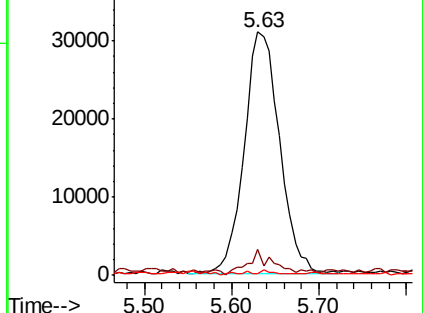
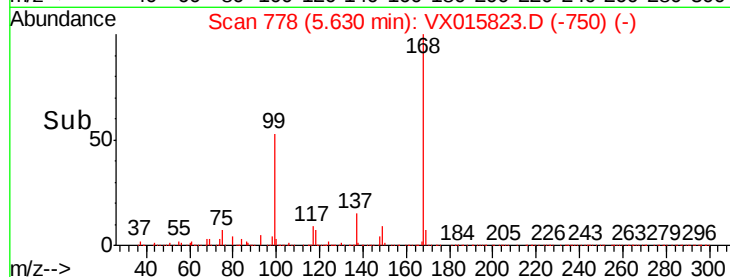
121 0.2 23.8 35.8#



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: 9.844 ug/l

RT: 6.42 min Scan# 907

Delta R.T. 0.00 min

Lab File: VX015823.D

Acq: 22 Apr 2020 03:13

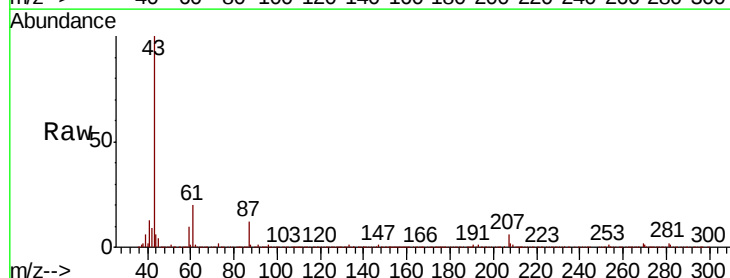
Tgt Ion: 43 Resp: 297738

Ion Ratio Lower Upper

43 100

61 19.2 14.8 22.2

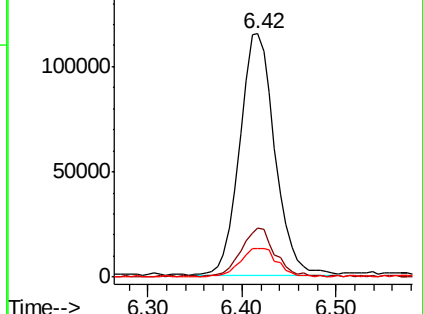
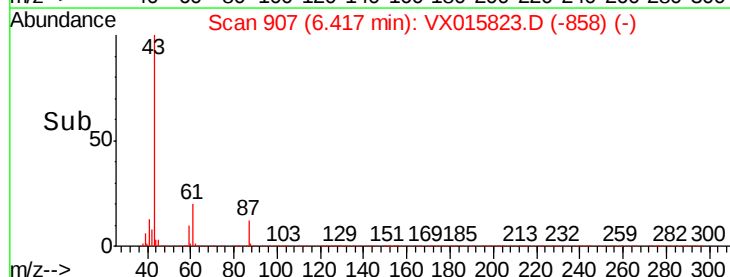
87 12.1 9.4 14.0

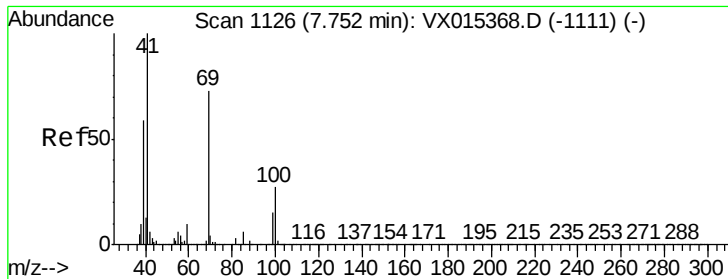


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

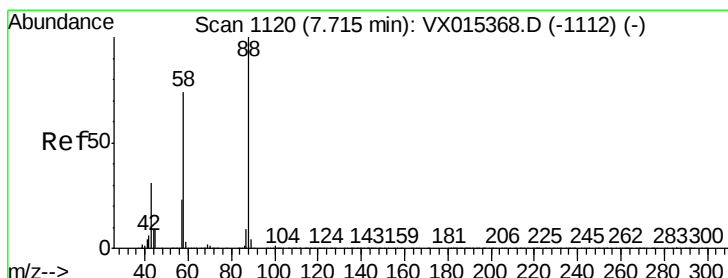
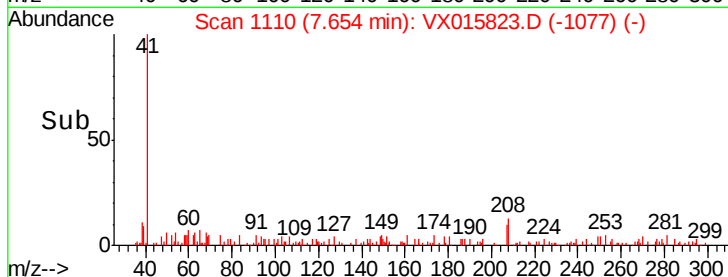
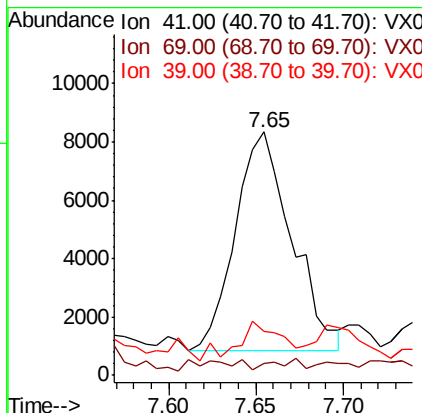
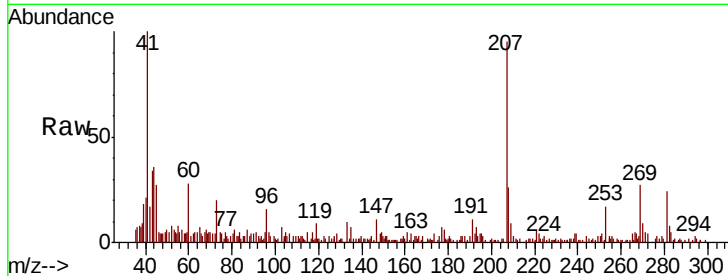




#48  
Methvl methacrylate  
Concen: 1.118 ug/l  
RT: 7.65 min Scan# 1110  
Delta R.T. -0.10 min  
Lab File: VX015823.D  
Acq: 22 Apr 2020 03:13

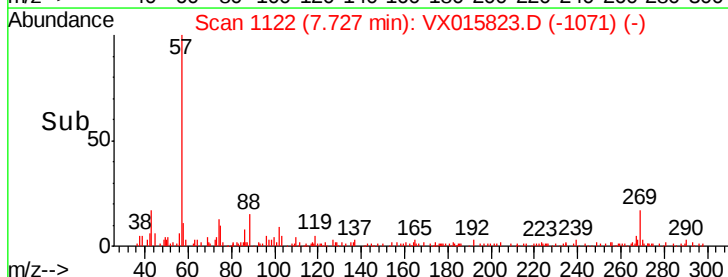
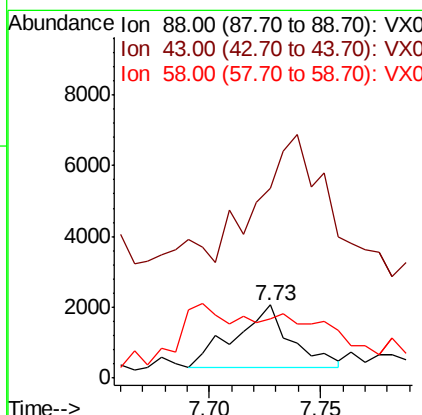
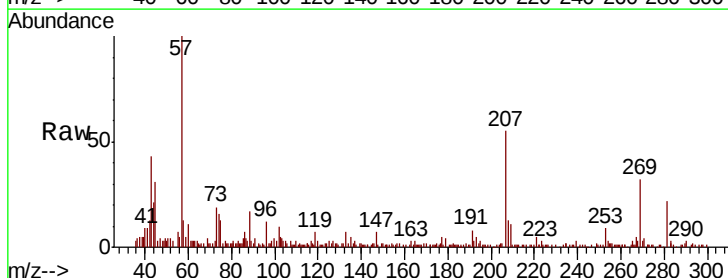
Instrument :  
MSVOA\_X  
ClientSampled :  
VNJ-240

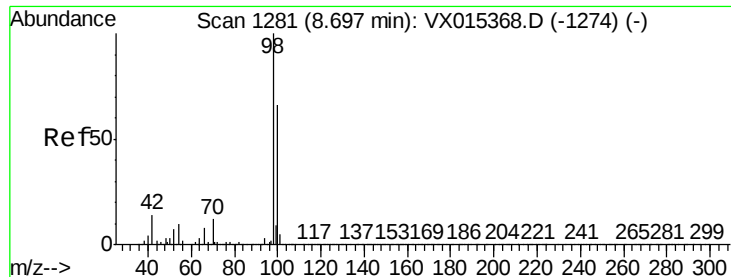
Tot Ion: 41 Resp: 16892  
Ion Ratio Lower Upper  
41 100  
69 0.2 56.7 85.1#  
39 0.0 46.5 69.7#



#49  
1,4-Dioxane  
Concen: 10.769 ug/l  
RT: 7.73 min Scan# 1122  
Delta R.T. 0.01 min  
Lab File: VX015823.D  
Acq: 22 Apr 2020 03:13

Tgt Ion: 88 Resp: 3035  
Ion Ratio Lower Upper  
88 100  
43 0.0 30.1 45.1#  
58 0.0 60.6 90.8#

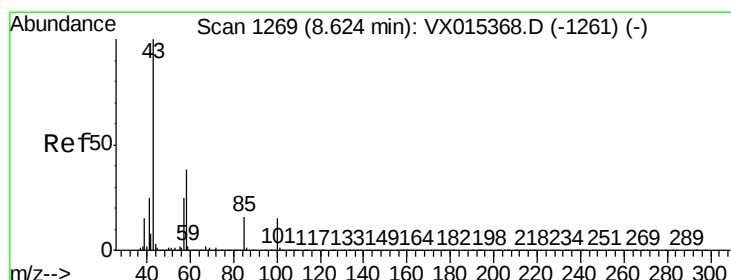
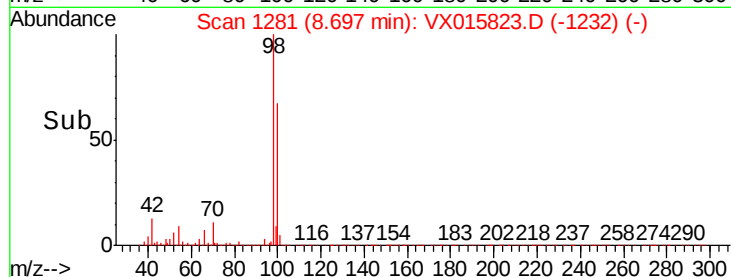
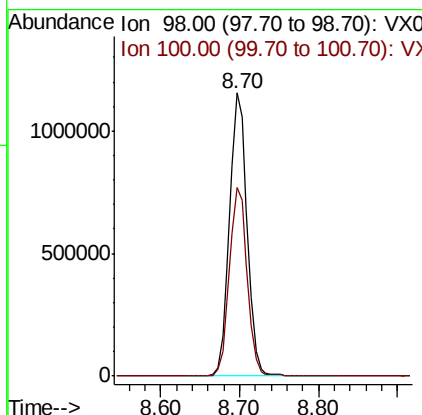
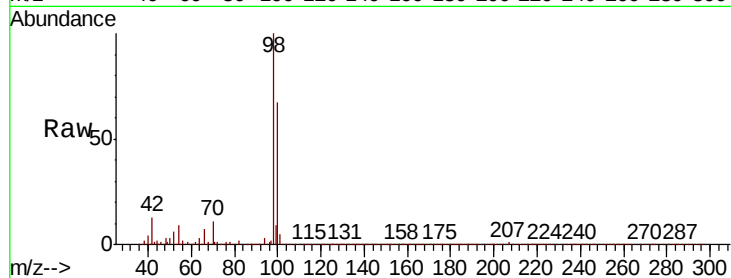




#50  
Toluene-d8  
Concen: 51.026 ug/l  
RT: 8.70 min Scan# 1281  
Delta R.T. 0.00 min  
Lab File: VX015823.D  
Acq: 22 Apr 2020 03:13

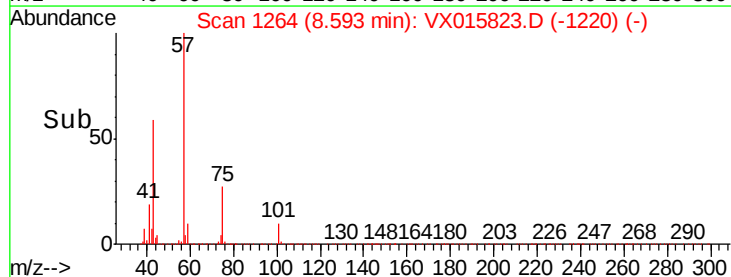
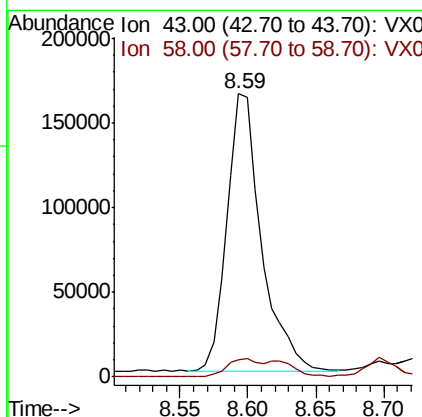
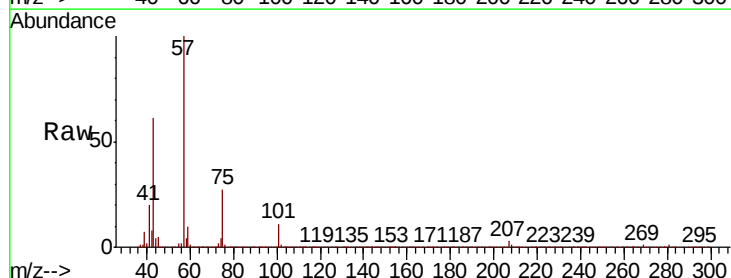
Instrument :  
MSVOA\_X  
ClientSampled :  
VNJ-240

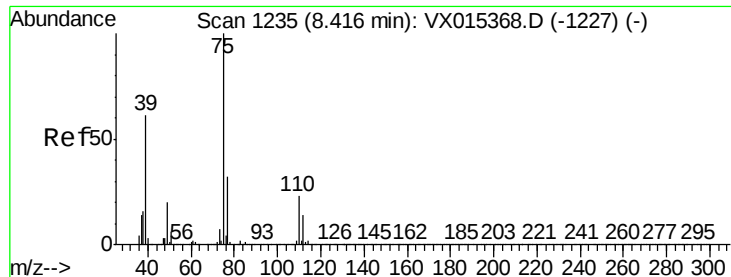
Tot Ion: 98 Resp: 1793349  
Ion Ratio Lower Upper  
98 100  
100 67.2 53.5 80.3



#51  
4-Methyl-2-Pentanone  
Concen: 16.938 ug/l  
RT: 8.59 min Scan# 1264  
Delta R.T. -0.03 min  
Lab File: VX015823.D  
Acq: 22 Apr 2020 03:13

Tgt Ion: 43 Resp: 290322  
Ion Ratio Lower Upper  
43 100  
58 6.2 29.7 44.5#





#54

cis-1,3-Dichloropropene

Concen: 6.383 ug/l

RT: 8.60 min Scan# 1265

Delta R.T. 0.18 min

Lab File: VX015823.D

Acq: 22 Apr 2020 03:13

Instrument :

MSVOA\_X

ClientSampleId :

VNJ-240

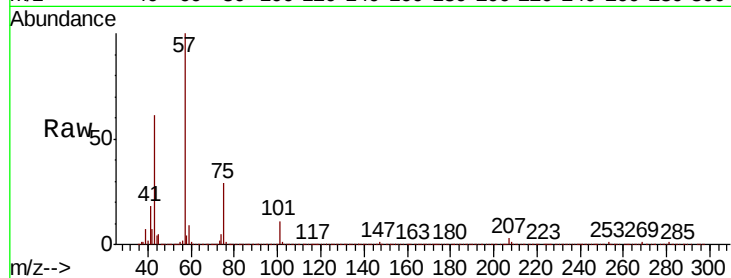
Tot Ion: 75 Resp: 117523

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

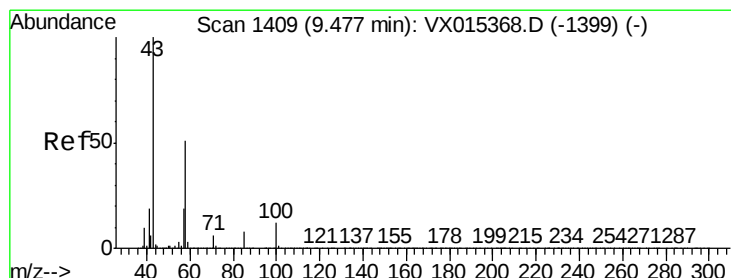
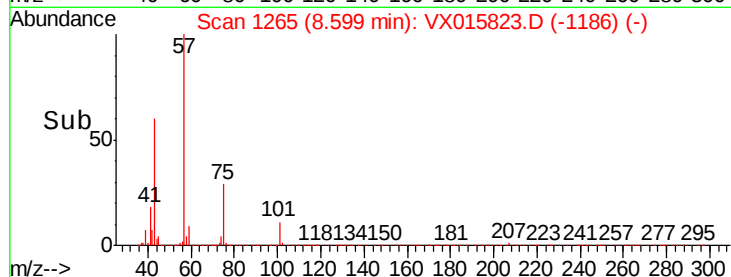
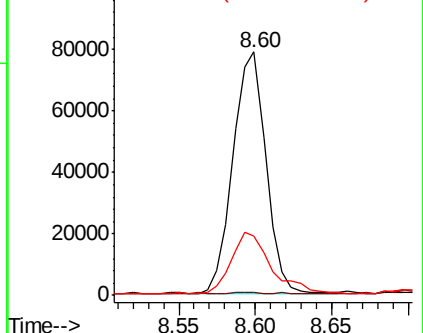
39 23.8 49.0 73.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 23.211 ug/l

RT: 9.53 min Scan# 1417

Delta R.T. 0.05 min

Lab File: VX015823.D

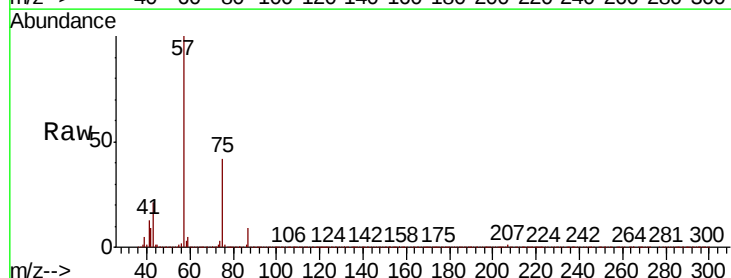
Acq: 22 Apr 2020 03:13

Tgt Ion: 43 Resp: 300354

Ion Ratio Lower Upper

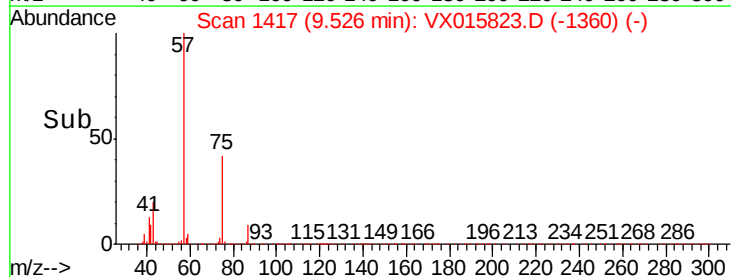
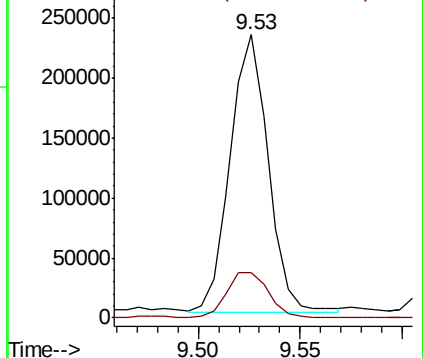
43 100

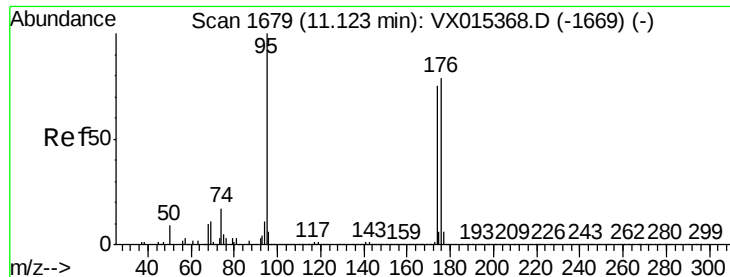
58 18.2 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

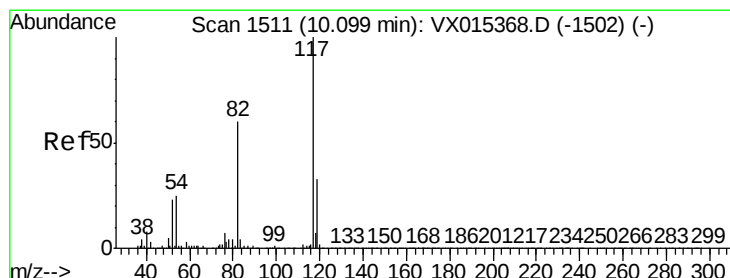
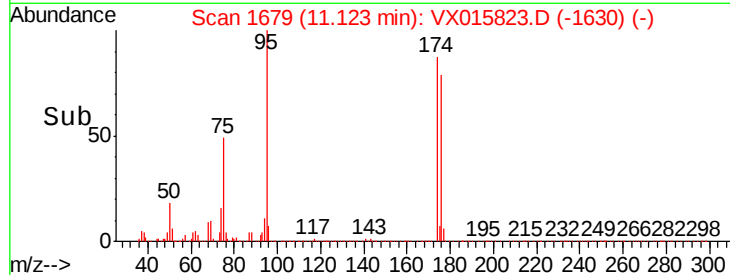
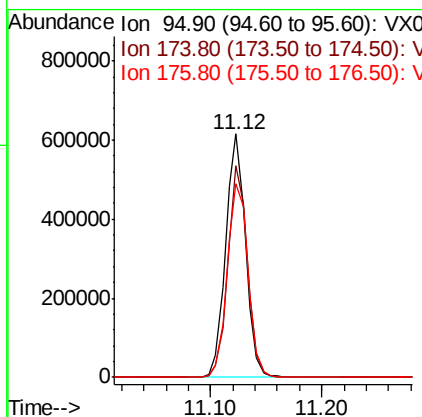
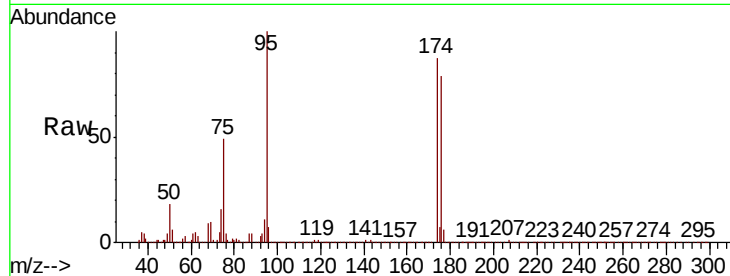




#62  
4-Bromofluorobenzene  
Concen: 53.106 ug/l  
RT: 11.12 min Scan# 1679  
Delta R.T. 0.00 min  
Lab File: VX015823.D  
Acq: 22 Apr 2020 03:13

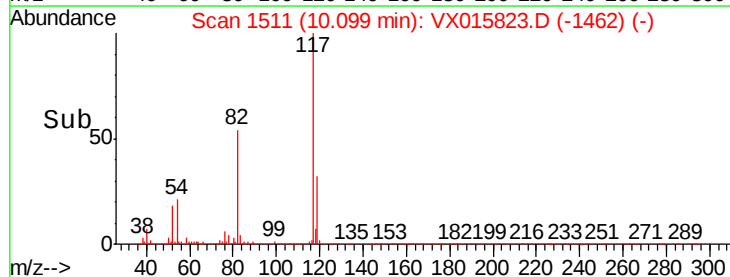
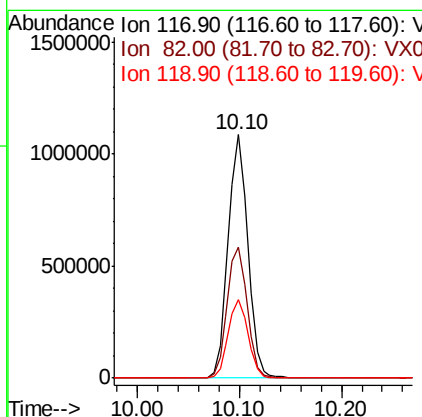
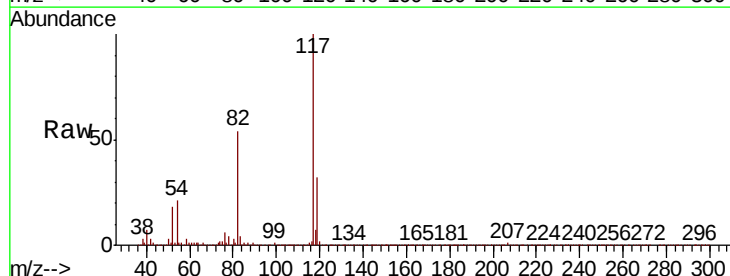
Instrument :  
MSVOA\_X  
ClientSampleId :  
VNJ-240

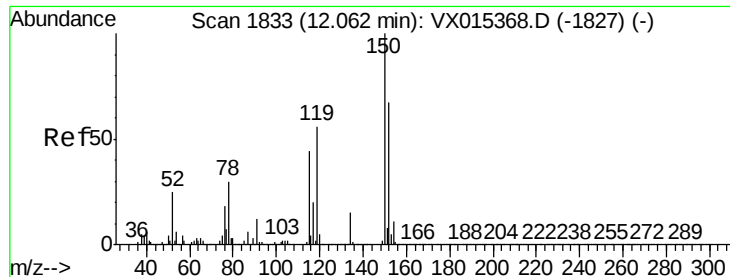
Tot Ion: 95 Resp: 758529  
Ion Ratio Lower Upper  
95 100  
174 85.3 0.0 158.6  
176 83.6 0.0 159.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1511  
Delta R.T. 0.00 min  
Lab File: VX015823.D  
Acq: 22 Apr 2020 03:13

Tgt Ion: 117 Resp: 1452738  
Ion Ratio Lower Upper  
117 100  
82 53.7 47.8 71.8  
119 32.2 26.8 40.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015823.D

Acq: 22 Apr 2020 03:13

Instrument :

MSVOA\_X

ClientSampled :

VNJ-240

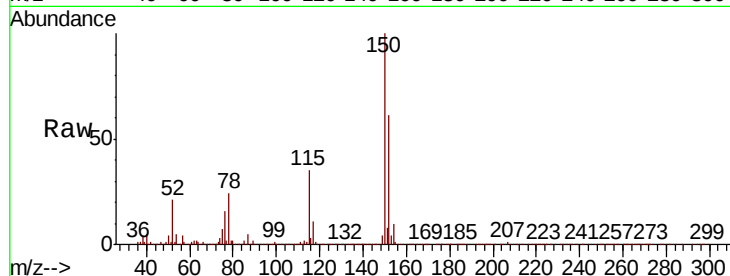
Tot Ion:152 Resp: 820830

Ion Ratio Lower Upper

152 100

115 56.4 39.0 116.9

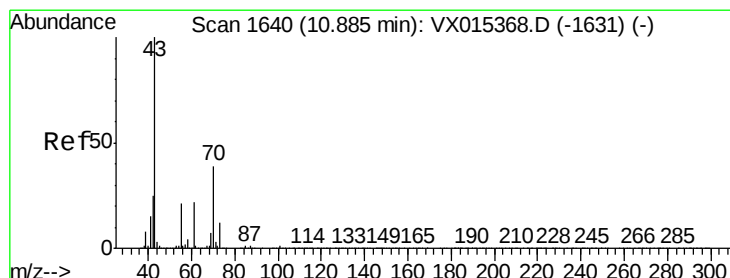
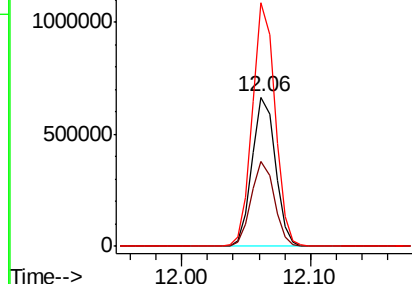
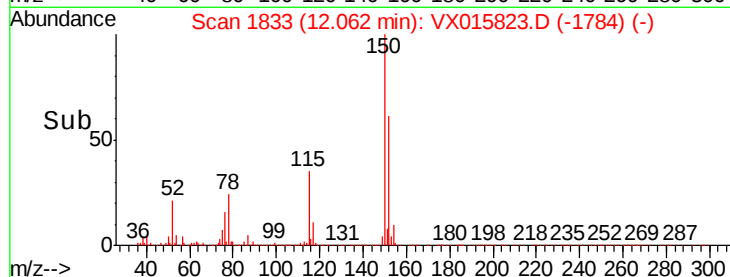
150 159.2 0.0 340.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-aryl acetate

Concen: 0.830 ug/l

RT: 10.81 min Scan# 1627

Delta R.T. -0.08 min

Lab File: VX015823.D

Acq: 22 Apr 2020 03:13

Tgt Ion: 43 Resp: 24814

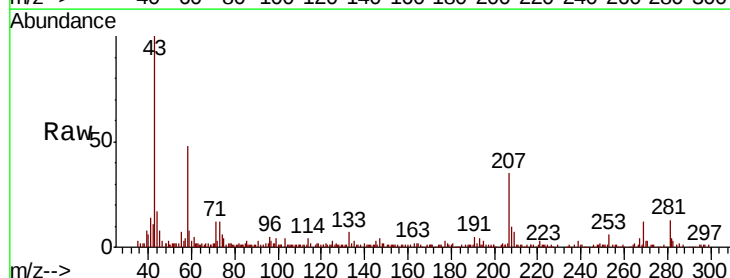
Ion Ratio Lower Upper

43 100

70 2.5 30.2 45.4#

55 7.4 16.8 25.2#

61 0.0 18.2 27.2#

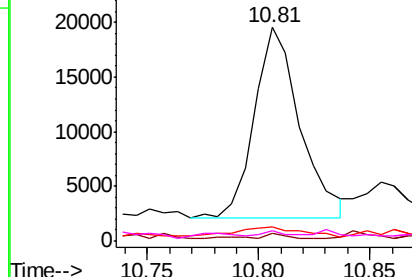
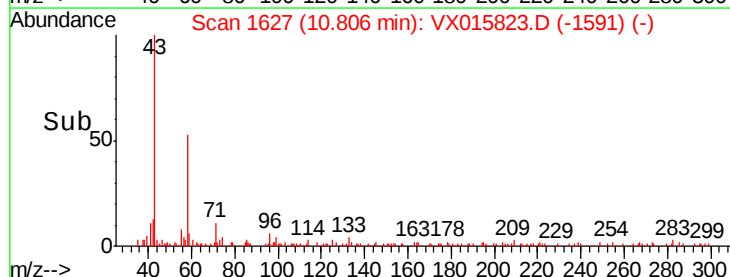


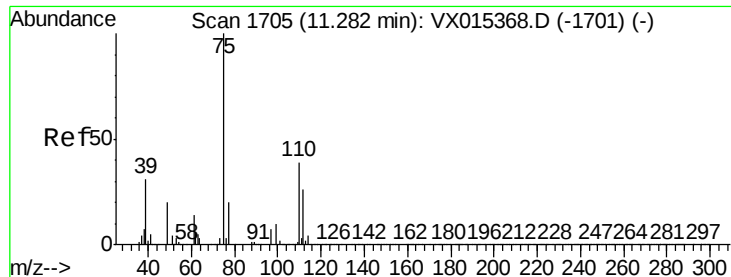
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.164 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015823.D

Acq: 22 Apr 2020 03:13

Instrument :

MSVOA\_X

ClientSampleId :

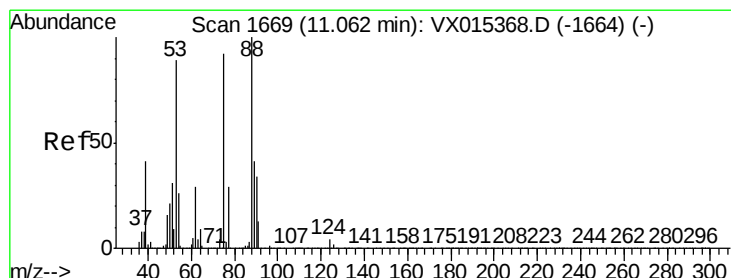
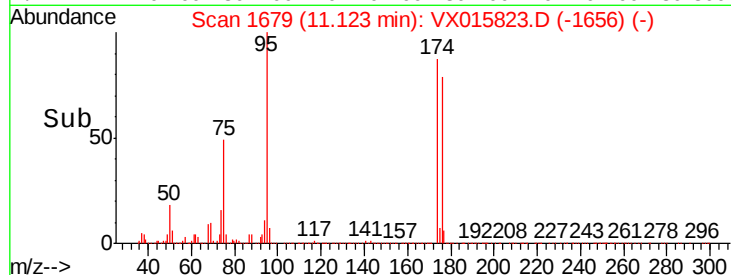
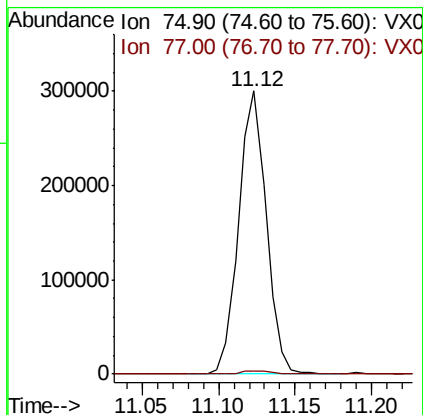
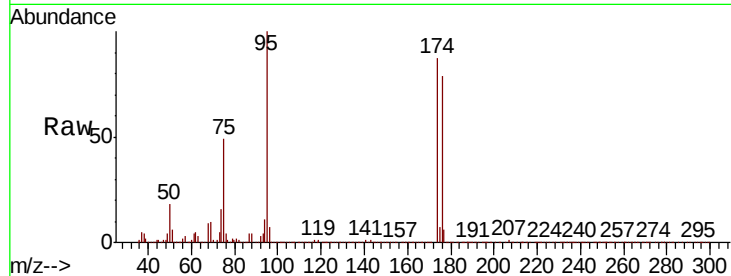
VNJ-240

Tot Ion: 75 Resp: 374127

Ion Ratio Lower Upper

75 100

77 1.1 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 53.182 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015823.D

Acq: 22 Apr 2020 03:13

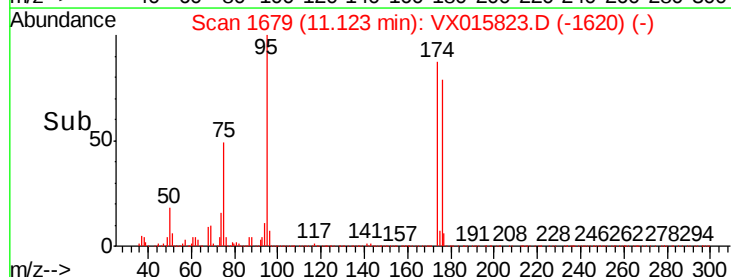
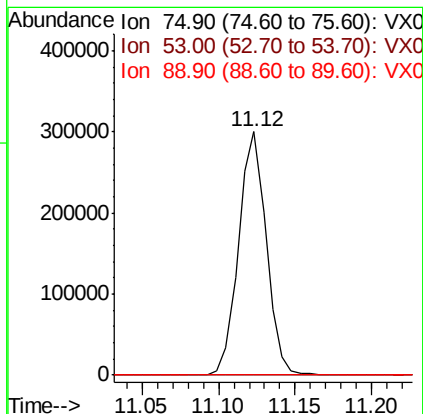
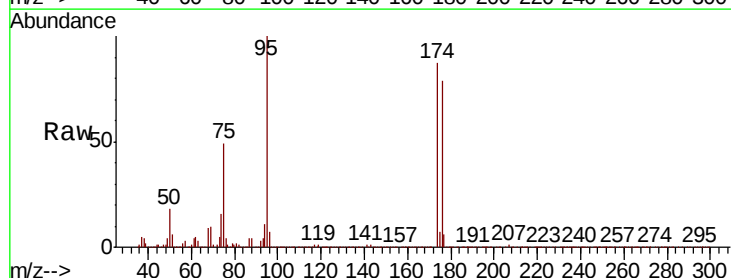
Tgt Ion: 75 Resp: 374127

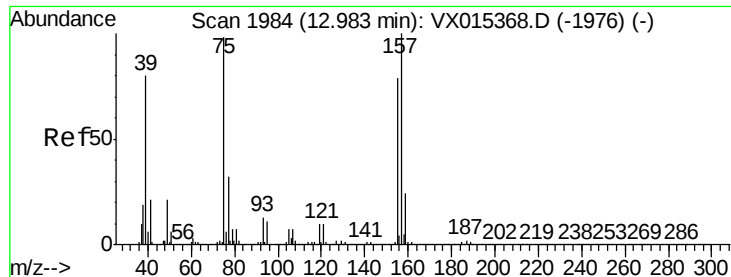
Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.3 36.1 54.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.290 ug/l

RT: 13.01 min Scan# 1988

Delta R.T. 0.02 min

Lab File: VX015823.D

Acq: 22 Apr 2020 03:13

Instrument :

MSVOA\_X

ClientSampleId :

VNJ-240

Tot Ion: 75 Resp: 1511

Ion Ratio Lower Upper

75 100

155 33.8 42.8 128.4#

157 29.6 53.4 160.3#

