

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053119\  
 Data File : VN055928.D  
 Acq On : 31 May 2019 18:54  
 Operator : JC/SP  
 Sample : K3129-13  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LF012MW008-190528

Quant Time: Jun 01 02:03:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N052319W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 24 06:41:54 2019  
 Response via : Initial Calibration

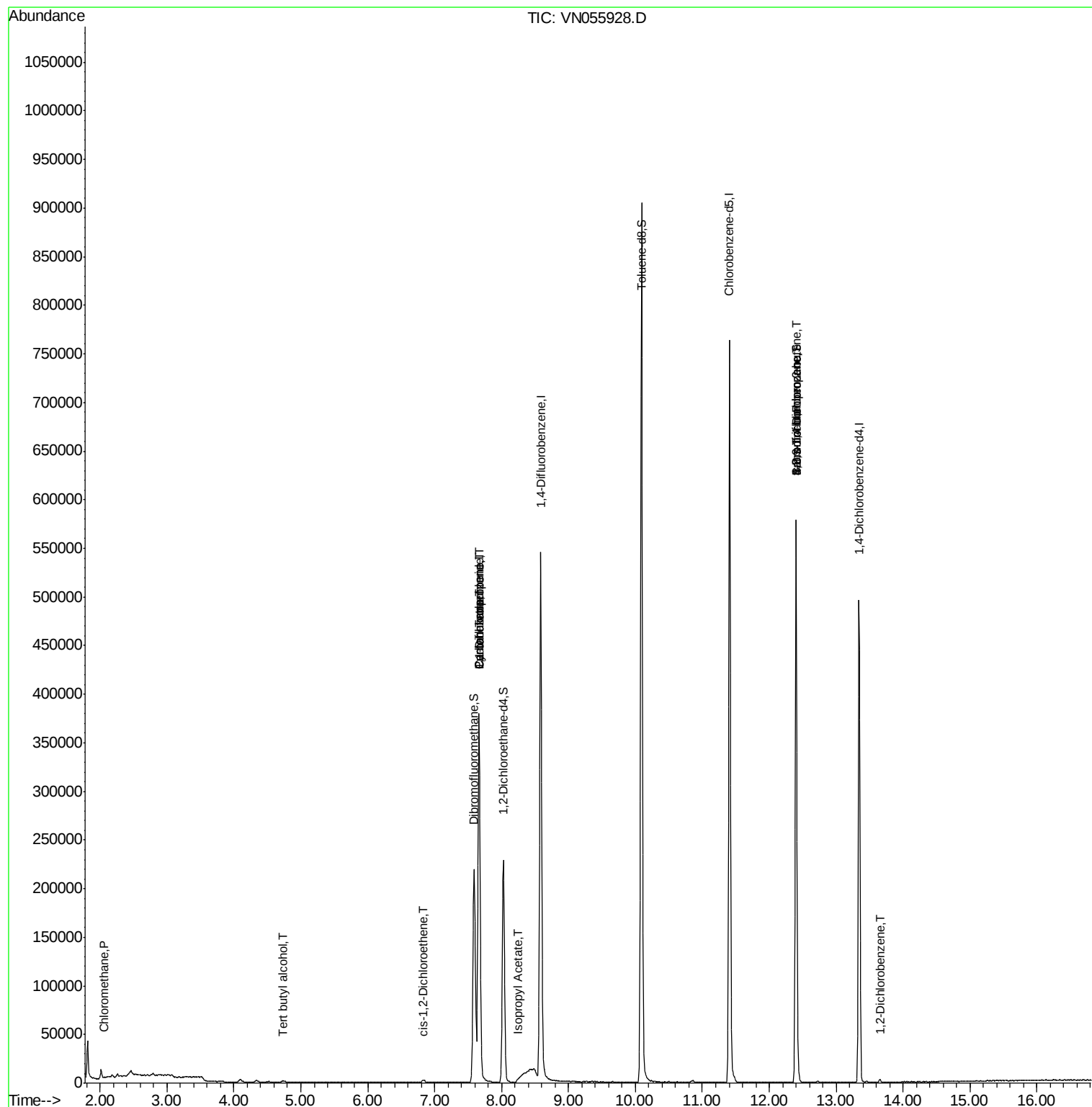
| Internal Standards             | R.T.   | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.66   | 168  | 351791   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.58   | 114  | 526969   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.41  | 117  | 482775   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.34  | 152  | 151114   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.03   | 65   | 193477   | 53.26     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 106.52% |          |
| 35) Dibromofluoromethane       | 7.59   | 113  | 169669   | 50.93     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 101.86% |          |
| 50) Toluene-d8                 | 10.09  | 98   | 673291   | 52.68     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 105.36% |          |
| 62) 4-Bromofluorobenzene       | 12.40  | 95   | 206542   | 47.13     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 94.26%  |          |
| Target Compounds               |        |      |          |           |         |          |
|                                |        |      |          |           | Qvalue  |          |
| 3) Chloromethane               | 2.06   | 50   | 740      | 0.223     | ug/l    | 89       |
| 11) Tert butyl alcohol         | 4.74   | 59   | 759      | 1.093     | ug/l #  | 74       |
| 27) cis-1,2-Dichloroethene     | 6.83   | 96   | 1400     | 0.373     | ug/l    | 81       |
| 31) Cyclohexane                | 7.66   | 56   | 5381     | 0.987     | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.66   | 75   | 21600    | 4.704     | ug/l #  | 48       |
| 38) Carbon Tetrachloride       | 7.66   | 117  | 29604    | 6.189     | ug/l #  | 15       |
| 43) Isopropyl Acetate          | 8.24   | 43   | 1905     | 0.255     | ug/l #  | 53       |
| 71) Bromoform                  | 12.40  | 173  | 1437     | 0.437     | ug/l #  | 1        |
| 74) N-amyl acetate             | 12.07  | 43   | 58       | Below Cal | #       | 43       |
| 76) 1,2,3-Trichloropropane     | 12.40  | 75   | 97031    | 36.436    | ug/l #  | 100      |
| 79) 2-Chlorotoluene            | 12.41  | 91   | 451      | Below Cal | #       | 39       |
| 81) trans-1,4-Dichloro-2-buten | 12.40  | 75   | 97031    | 86.394    | ug/l #  | 15       |
| 91) 1,2-Dichlorobenzene        | 13.65  | 146  | 1774     | 0.348     | ug/l    | 95       |

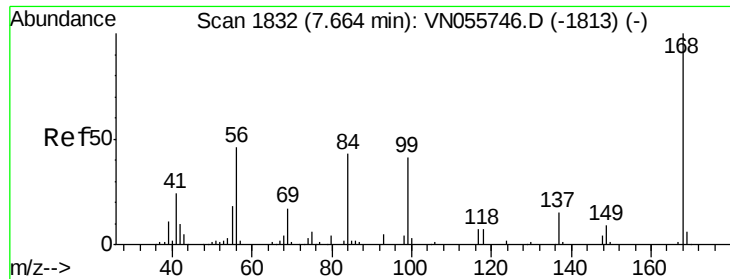
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN053119\  
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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
LF012MW008-190528

Quant Time: Jun 01 02:03:29 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N052319W.M  
Quant Title : SW846 8260  
QLast Update : Fri May 24 06:41:54 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055928.D

Acq: 31 May 2019 18:54

Instrument :

MSVOA\_N

ClientSampleId :

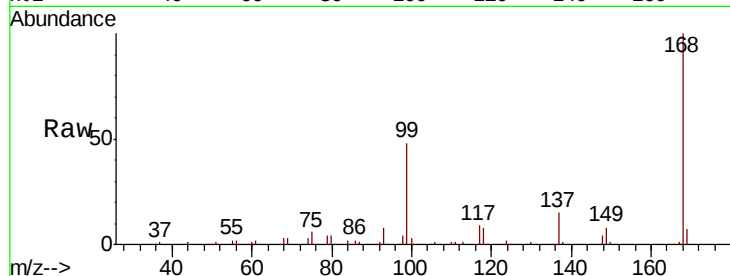
LF012MW008-190528

Tot Ion:168 Resp: 351791

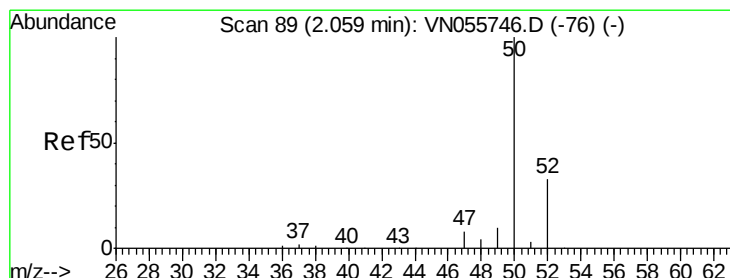
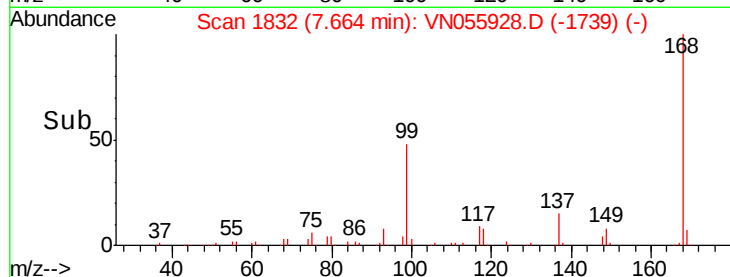
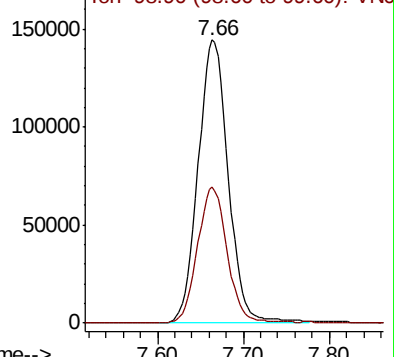
Ion Ratio Lower Upper

168 100

99 47.9 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055928.D (-1739) (-)



#3

Chloromethane

Concen: 0.223 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055928.D

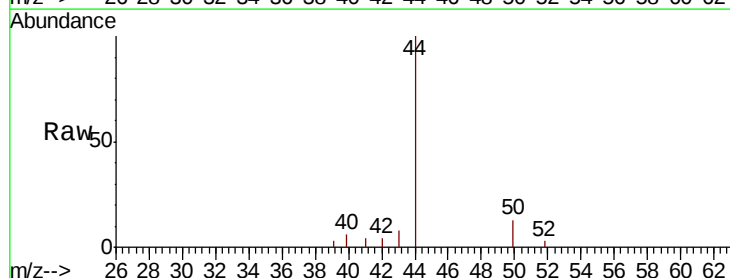
Acq: 31 May 2019 18:54

Tgt Ion: 50 Resp: 740

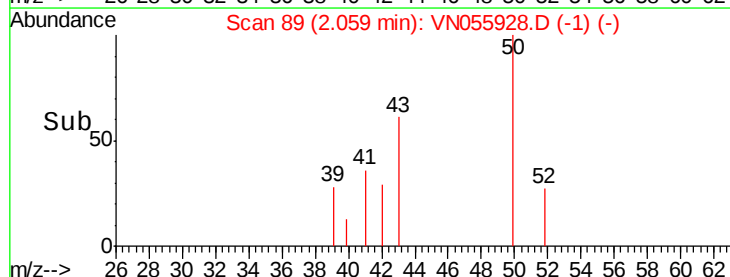
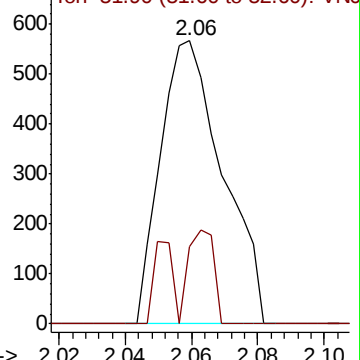
Ion Ratio Lower Upper

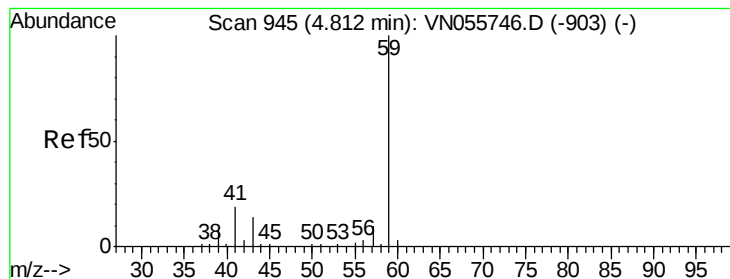
50 100

52 27.3 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VN055928.D (-1) (-)



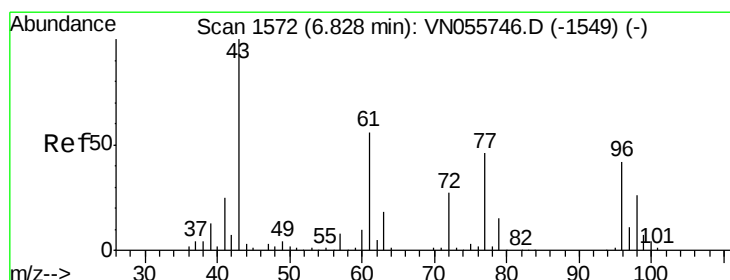
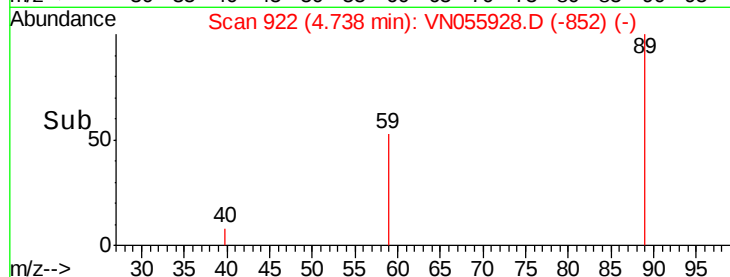
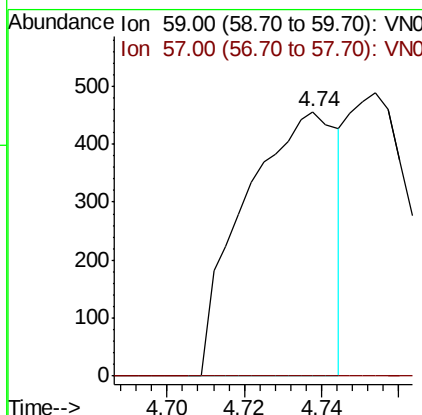
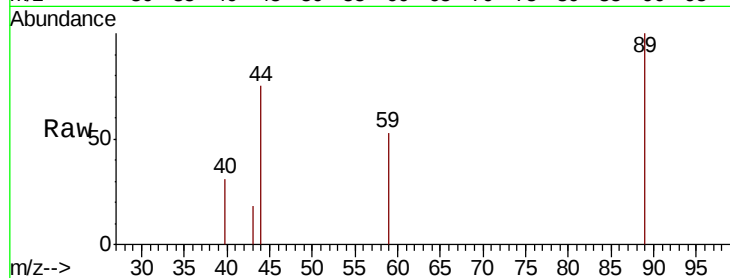


#11

Tert butyl alcohol  
 Concen: 1.093 ug/l  
 RT: 4.74 min Scan# 922  
 Delta R.T. -0.07 min  
 Lab File: VN055928.D  
 Acq: 31 May 2019 18:54

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LF012MW008-190528

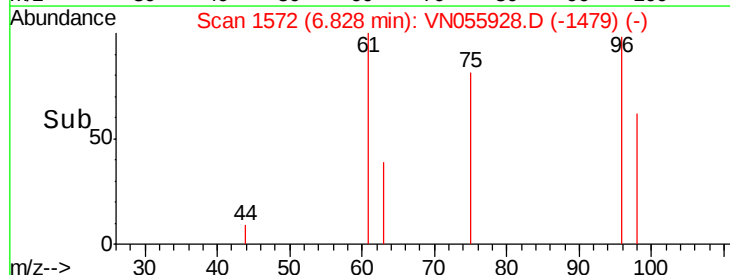
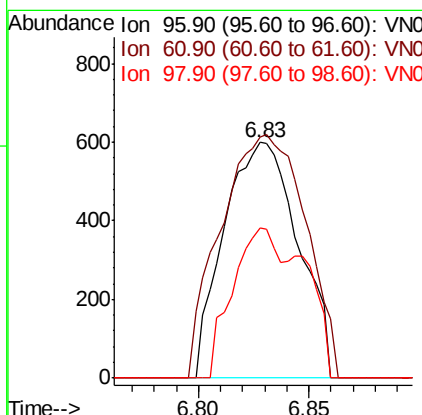
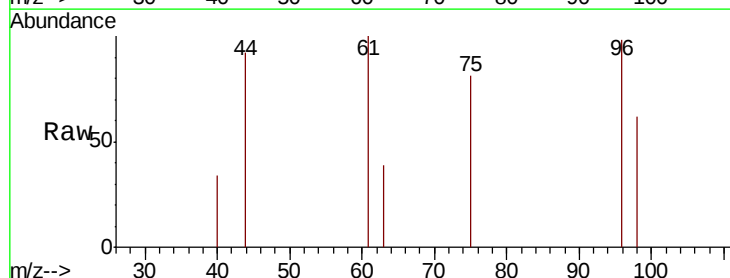
Tot Ion: 59 Resp: 759  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.8 11.6#

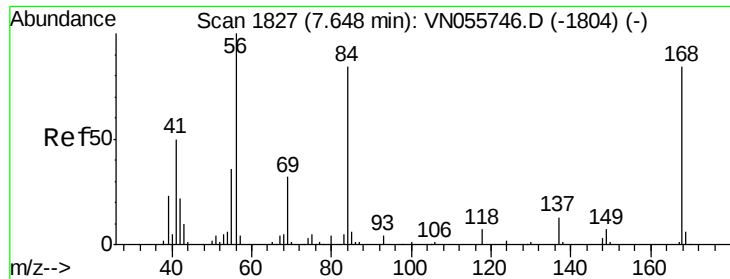


#27

cis-1,2-Dichloroethene  
 Concen: 0.373 ug/l  
 RT: 6.83 min Scan# 1572  
 Delta R.T. 0.00 min  
 Lab File: VN055928.D  
 Acq: 31 May 2019 18:54

Tgt Ion: 96 Resp: 1400  
 Ion Ratio Lower Upper  
 96 100  
 61 118.0 0.0 275.8  
 98 43.9 0.0 128.4

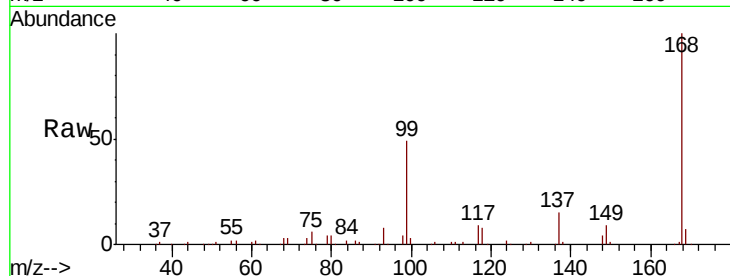




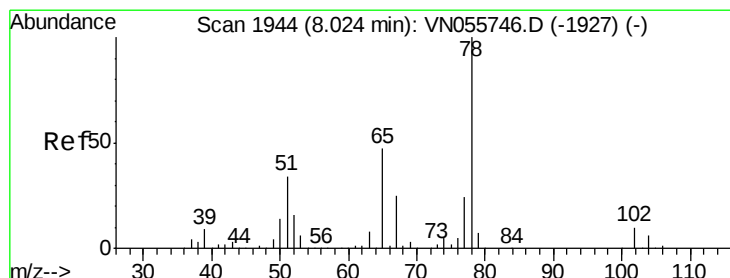
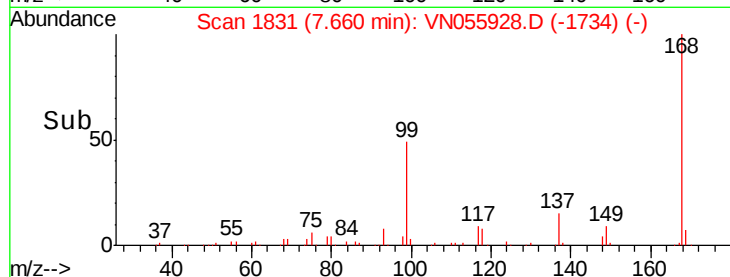
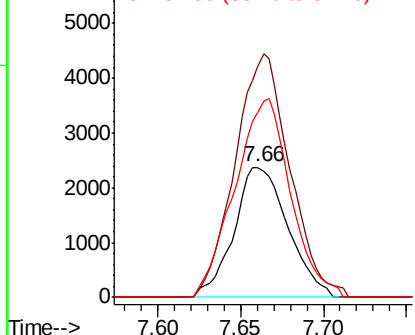
#31  
Cyclohexane  
Concen: 0.987 ug/l  
RT: 7.66 min Scan# 1831  
Delta R.T. 0.01 min  
Lab File: VN055928.D  
Acq: 31 May 2019 18:54

Instrument :  
MSVOA\_N  
ClientSampleId :  
LF012MW008-190528

Tot Ion: 56 Resp: 5381  
Ion Ratio Lower Upper  
56 100  
69 177.3 25.6 38.4#  
84 142.4 67.4 101.0#

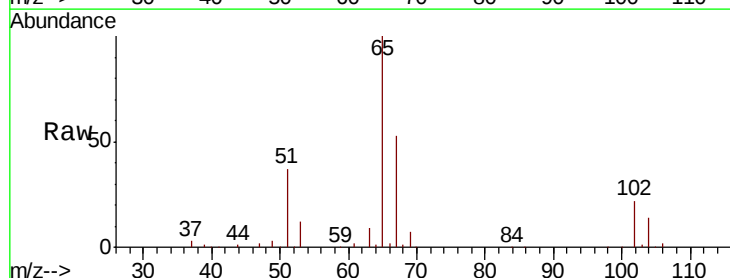


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

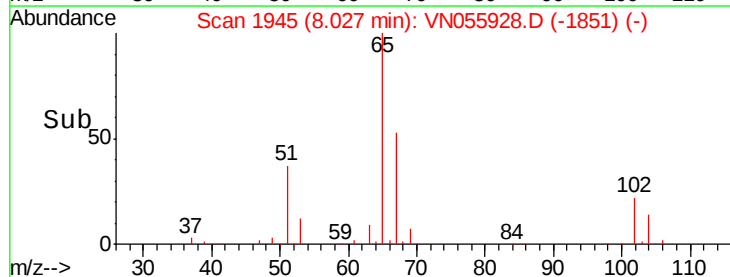
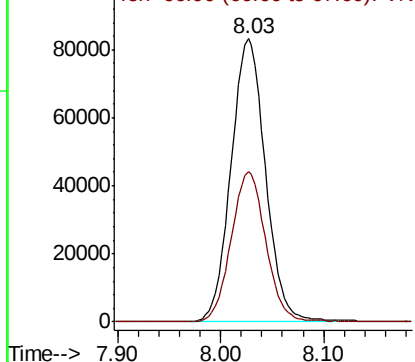


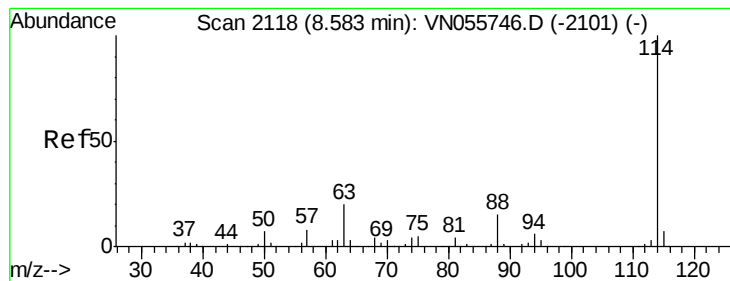
#33  
1,2-Dichloroethane-d4  
Concen: 53.255 ug/l  
RT: 8.03 min Scan# 1945  
Delta R.T. 0.00 min  
Lab File: VN055928.D  
Acq: 31 May 2019 18:54

Tgt Ion: 65 Resp: 193477  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0  
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN055928.D

Acq: 31 May 2019 18:54

Instrument :

MSVOA\_N

ClientSampleId :

LF012MW008-190528

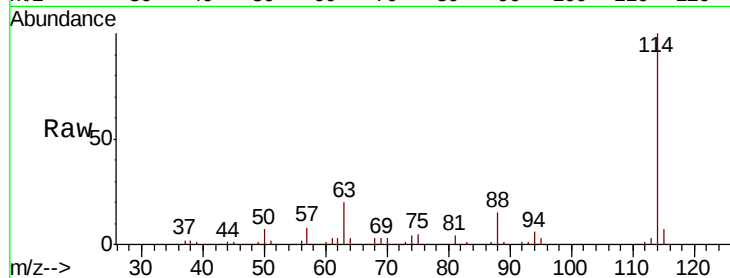
Tot Ion:114 Resp: 526969

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.2

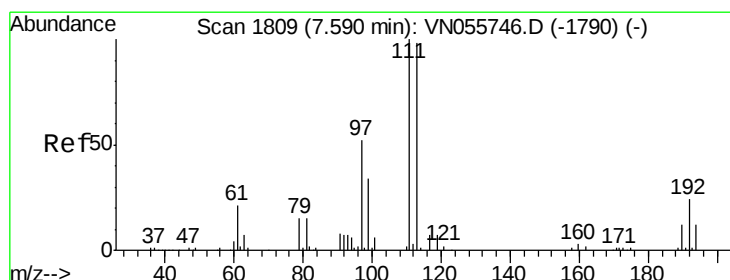
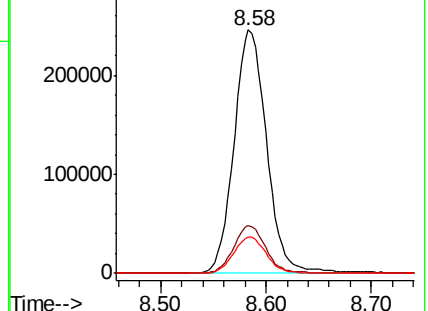
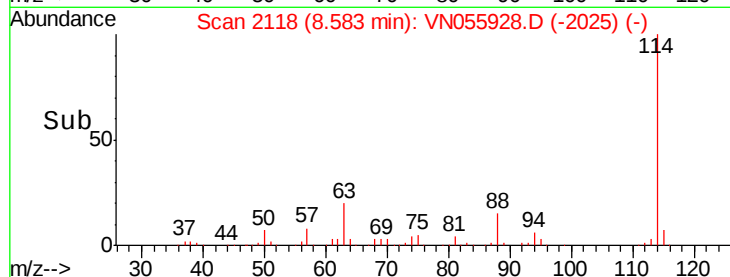
88 15.0 0.0 31.0



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: 50.926 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055928.D

Acq: 31 May 2019 18:54

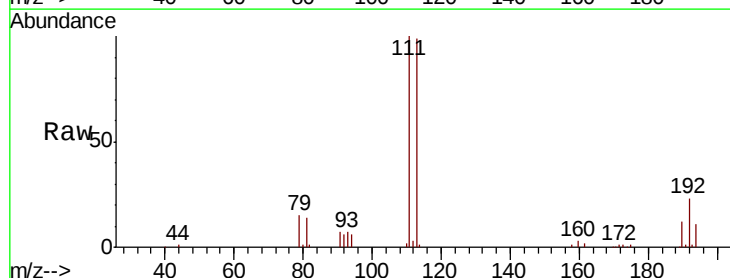
Tgt Ion:113 Resp: 169669

Ion Ratio Lower Upper

113 100

111 101.1 81.9 122.9

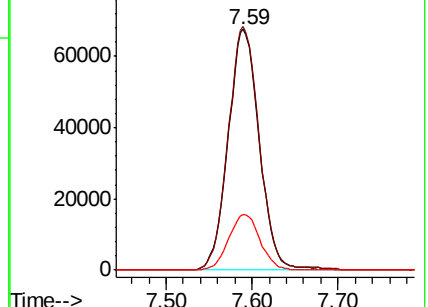
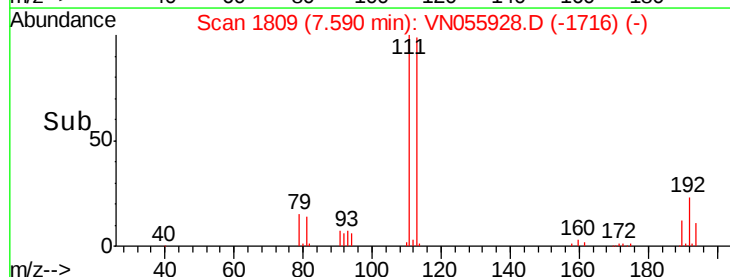
192 23.3 19.5 29.3

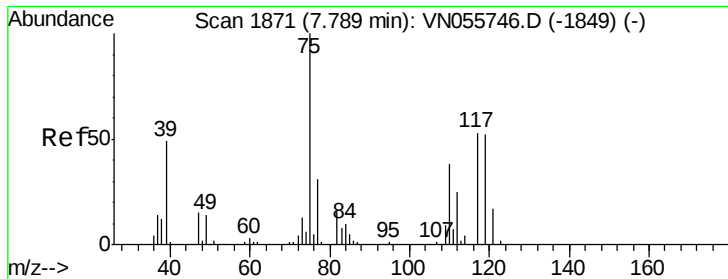


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

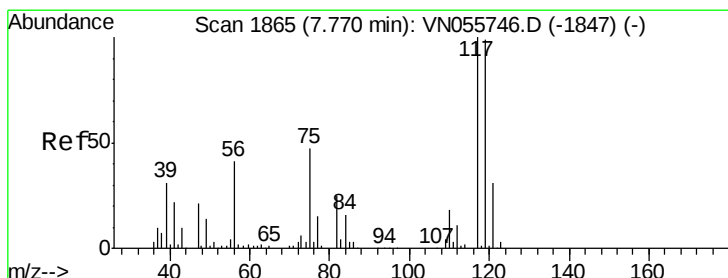
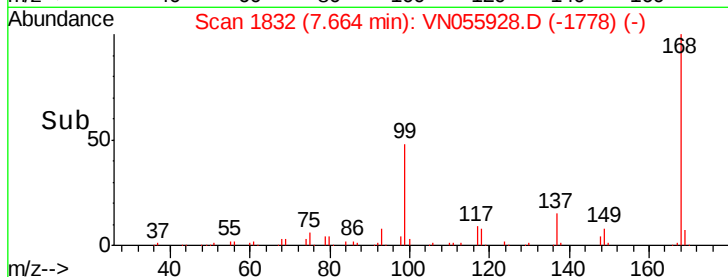
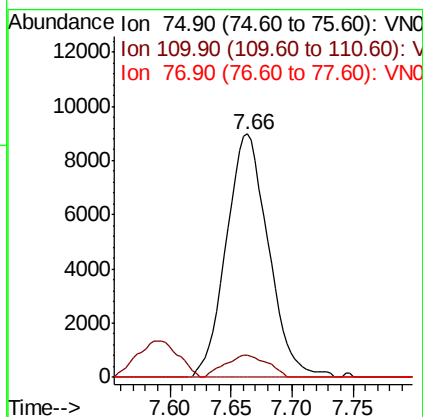
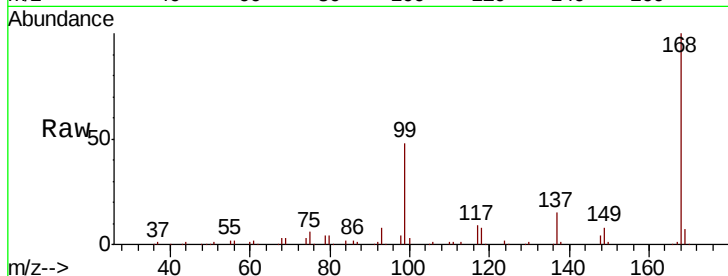




#36  
 1,1-Dichloropropene  
 Concen: 4.704 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.13 min  
 Lab File: VN055928.D  
 Acq: 31 May 2019 18:54

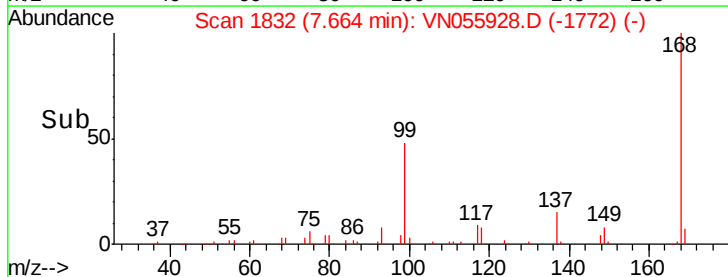
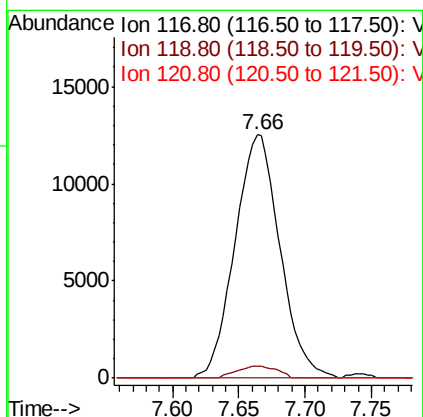
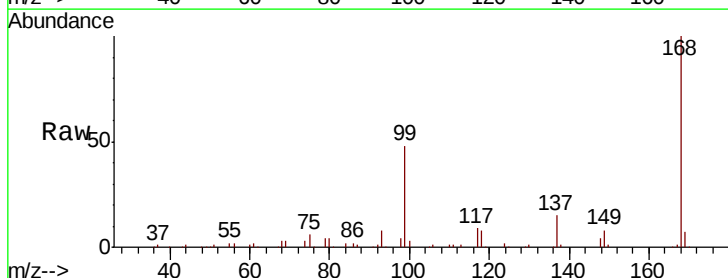
Instrument :  
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 LF012MW008-190528

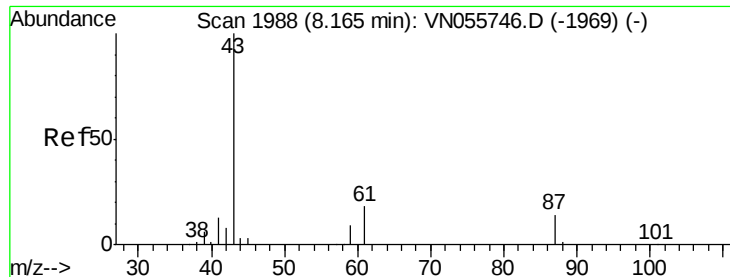
Tot Ion: 75 Resp: 21600  
 Ion Ratio Lower Upper  
 75 100  
 110 9.2 19.0 57.0#  
 77 0.0 25.1 37.7#



#38  
 Carbon Tetrachloride  
 Concen: 6.189 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.11 min  
 Lab File: VN055928.D  
 Acq: 31 May 2019 18:54

Tgt Ion: 117 Resp: 29604  
 Ion Ratio Lower Upper  
 117 100  
 119 5.0 79.0 118.6#  
 121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 0.255 ug/l

RT: 8.24 min Scan# 2012

Delta R.T. 0.08 min

Lab File: VN055928.D

Acq: 31 May 2019 18:54

Instrument :

MSVOA\_N

ClientSampleId :

LF012MW008-190528

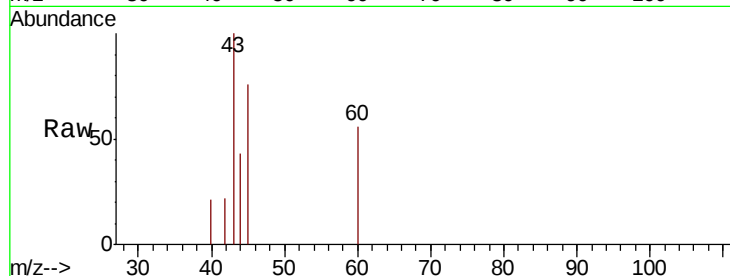
Tot Ion: 43 Resp: 1905

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

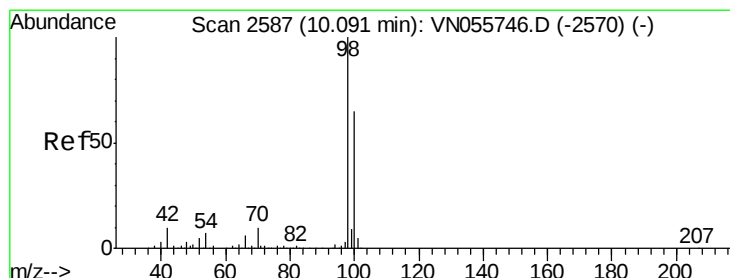
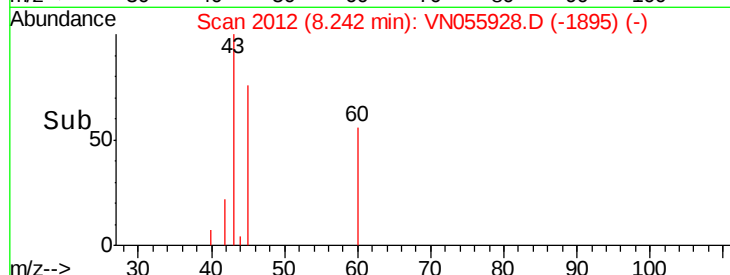
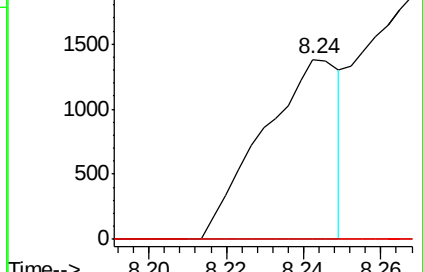
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VN055928.D (-2012) (-)

Ion 61.00 (60.70 to 61.70): VN055928.D (-2012) (-)

Ion 87.00 (86.70 to 87.70): VN055928.D (-2012) (-)



#50

Toluene-d8

Concen: 52.683 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055928.D

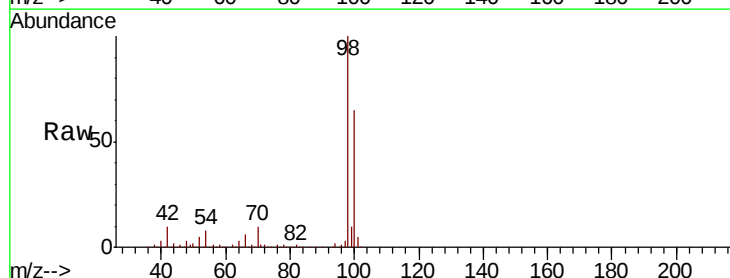
Acq: 31 May 2019 18:54

Tgt Ion: 98 Resp: 673291

Ion Ratio Lower Upper

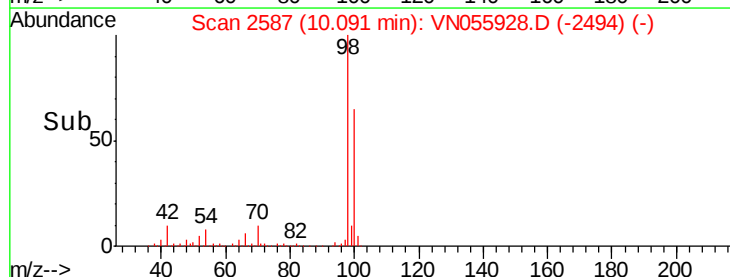
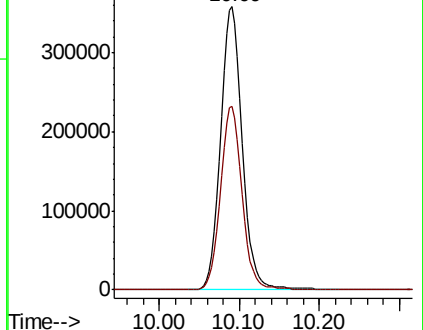
98 100

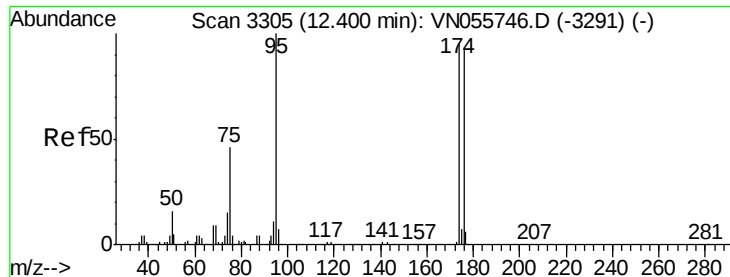
100 64.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055928.D (-2587) (-)

Ion 100.00 (99.70 to 100.70): VN055928.D (-2587) (-)





#62

4-Bromofluorobenzene

Concen: 47.133 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055928.D

Acq: 31 May 2019 18:54

Instrument :

MSVOA\_N

ClientSampleId :

LF012MW008-190528

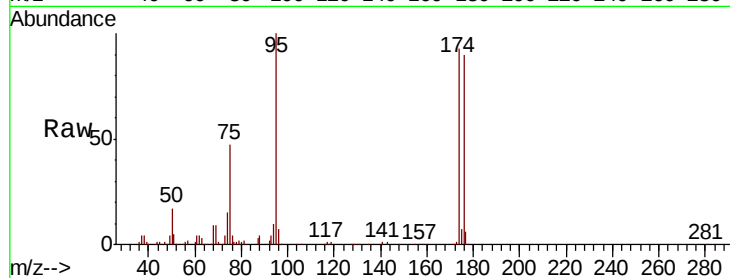
Tot Ion: 95 Resp: 206542

Ion Ratio Lower Upper

95 100

174 93.1 0.0 191.0

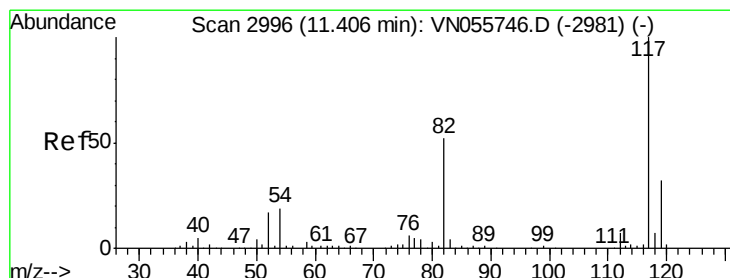
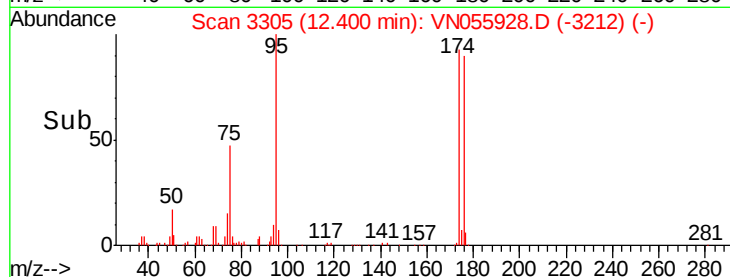
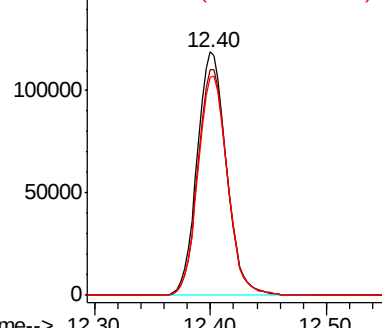
176 90.8 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055928.D

Acq: 31 May 2019 18:54

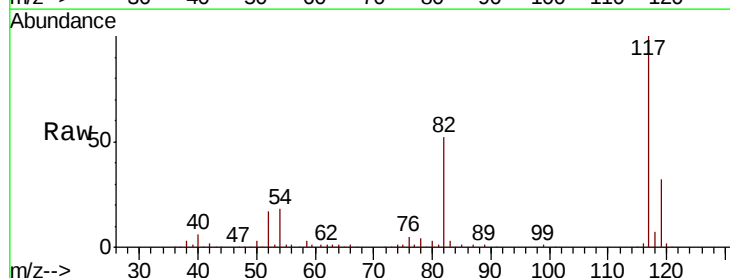
Tgt Ion: 117 Resp: 482775

Ion Ratio Lower Upper

117 100

82 52.2 41.8 62.8

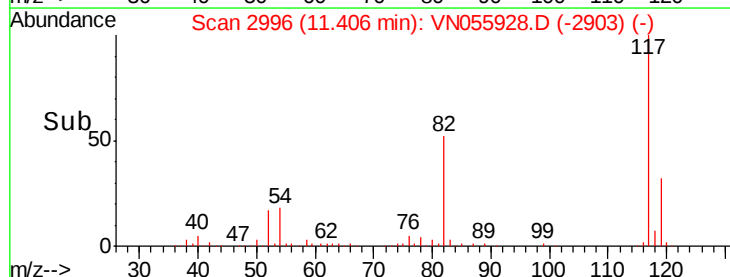
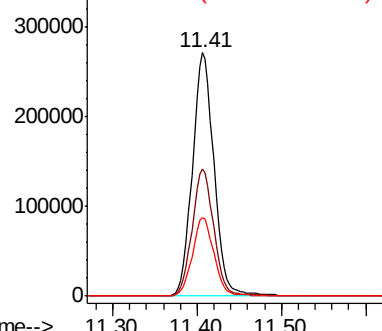
119 32.5 25.4 38.0

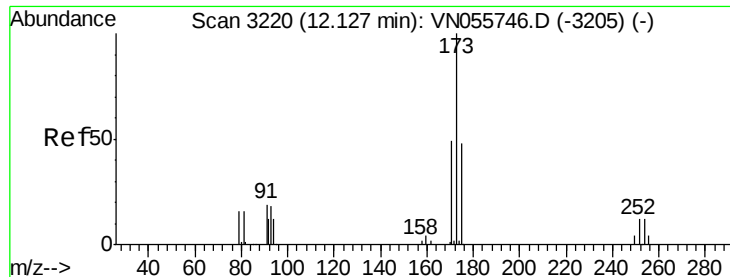


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.437 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055928.D

Acq: 31 May 2019 18:54

Instrument :

MSVOA\_N

ClientSampleId :

LF012MW008-190528

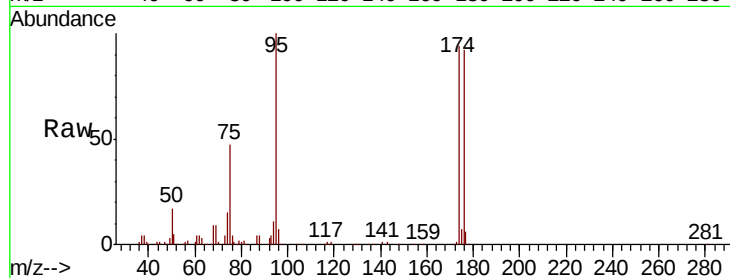
Tot Ion:173 Resp: 1437

Ion Ratio Lower Upper

173 100

175 829.2 24.3 72.8#

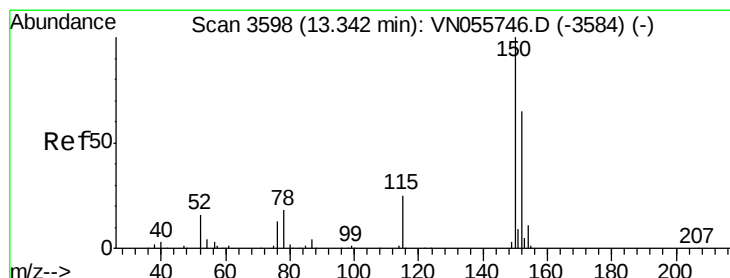
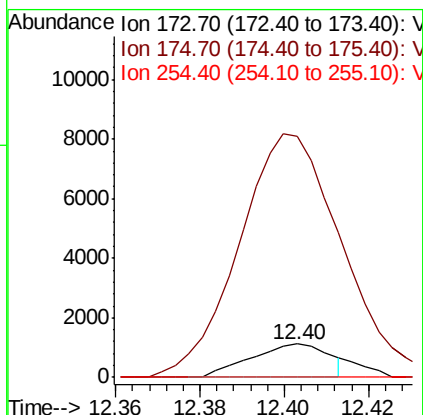
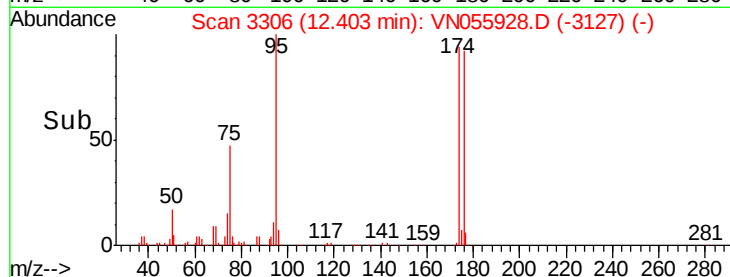
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055928.D

Acq: 31 May 2019 18:54

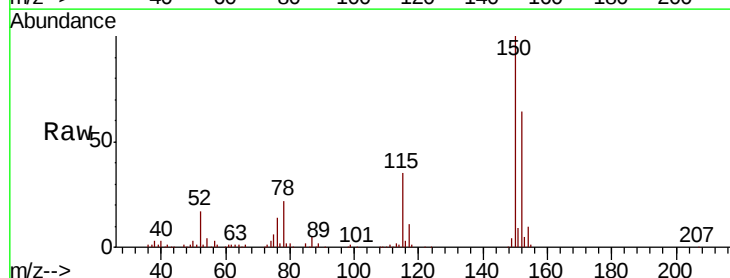
Tgt Ion:152 Resp: 151114

Ion Ratio Lower Upper

152 100

115 53.7 27.0 81.0

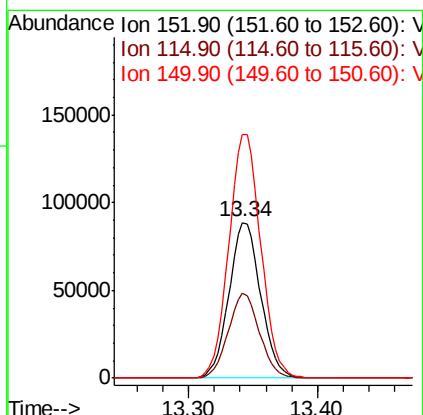
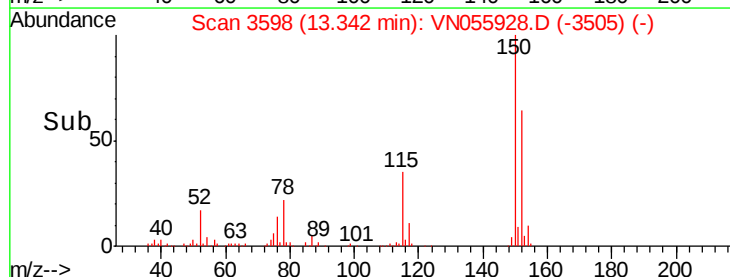
150 157.9 0.0 343.2

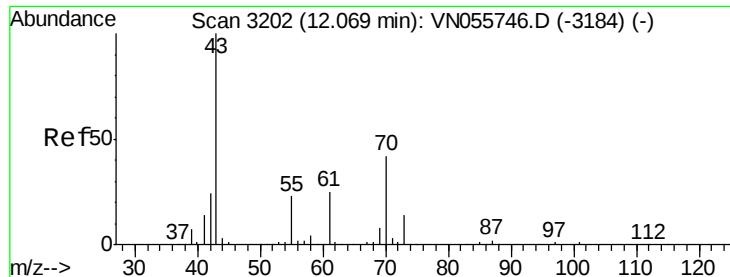


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN055928.D

Acq: 31 May 2019 18:54

Instrument :

MSVOA\_N

ClientSampleId :

LF012MW008-190528

Tot Ion: 43 Resp: 58

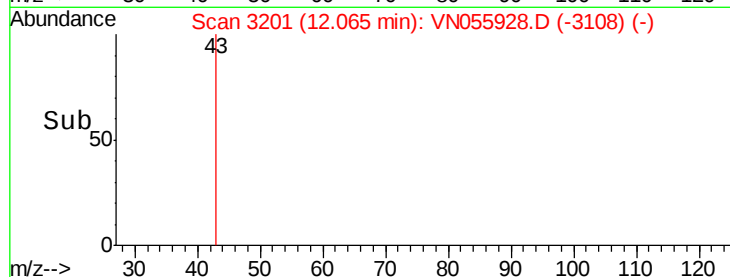
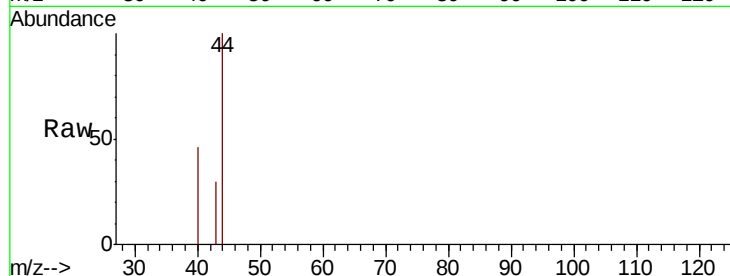
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#

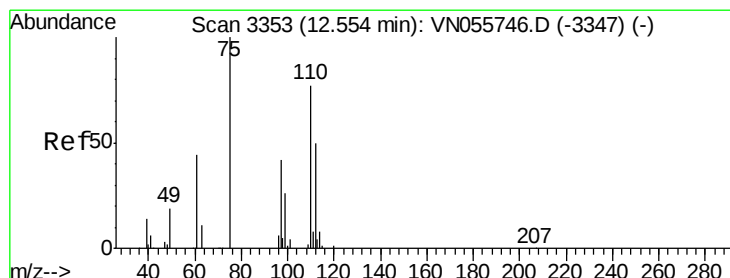
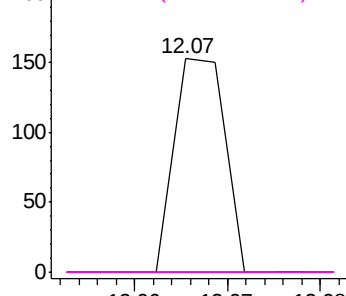


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 36.436 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055928.D

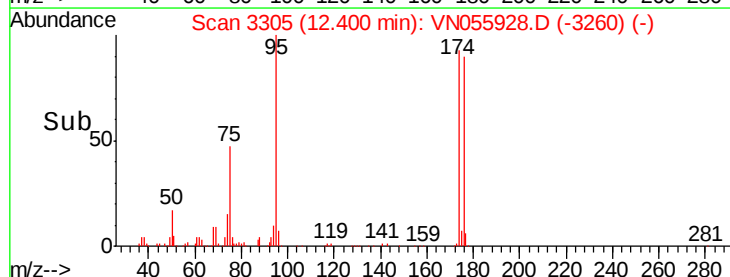
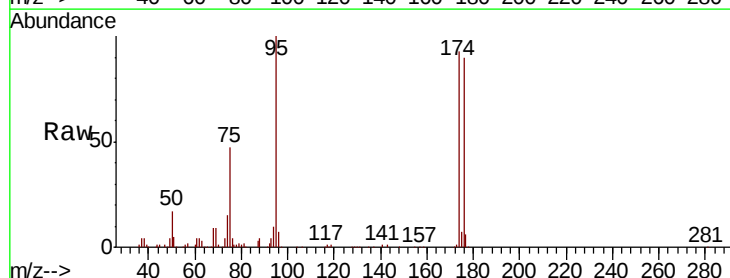
Acq: 31 May 2019 18:54

Tgt Ion: 75 Resp: 97031

Ion Ratio Lower Upper

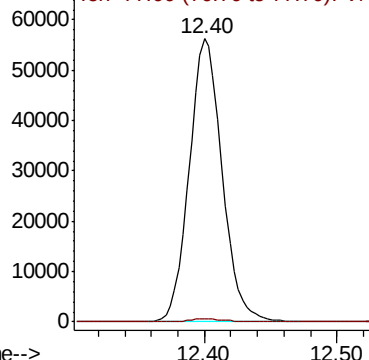
75 100

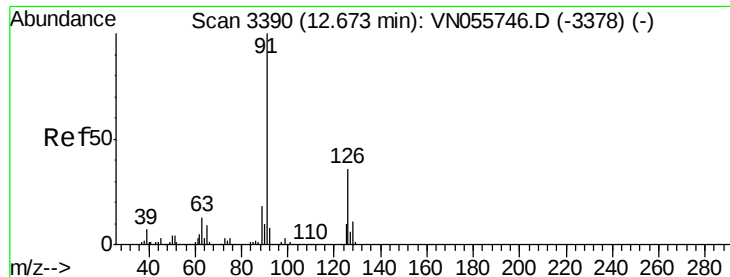
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.41 min Scan# 3307

Delta R.T. -0.27 min

Lab File: VN055928.D

Acq: 31 May 2019 18:54

Instrument :

MSVOA\_N

ClientSampleId :

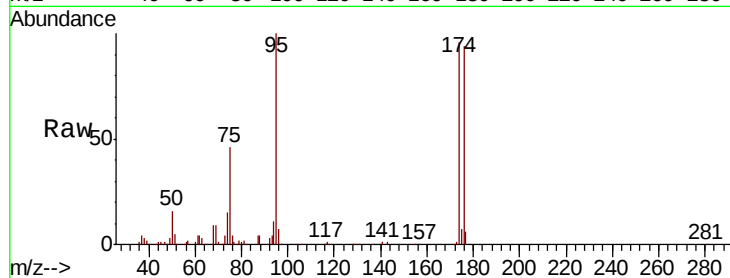
LF012MW008-190528

Tot Ion: 91 Resp: 451

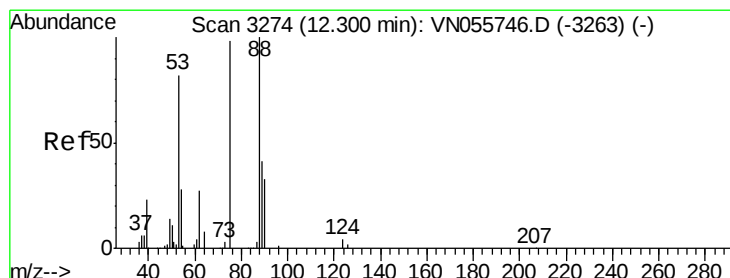
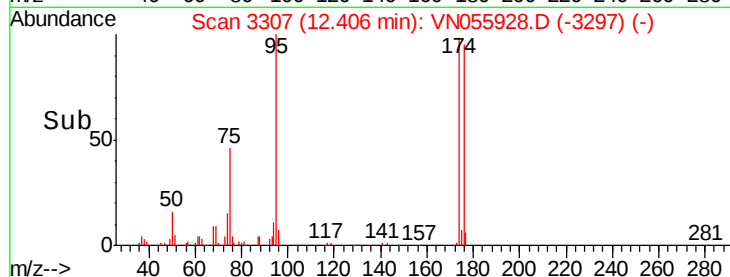
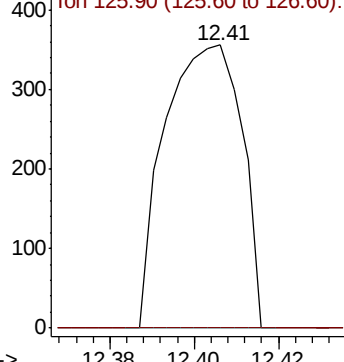
Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 86.394 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055928.D

Acq: 31 May 2019 18:54

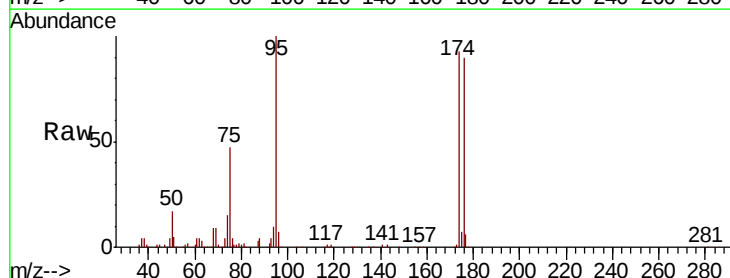
Tgt Ion: 75 Resp: 97031

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

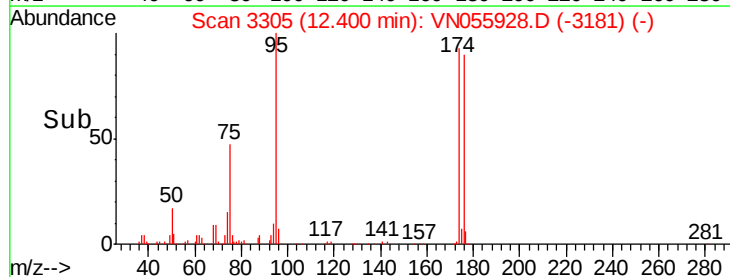
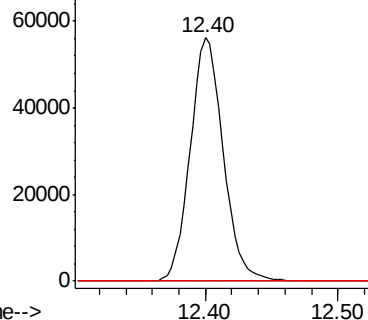
89 0.0 36.9 55.3#

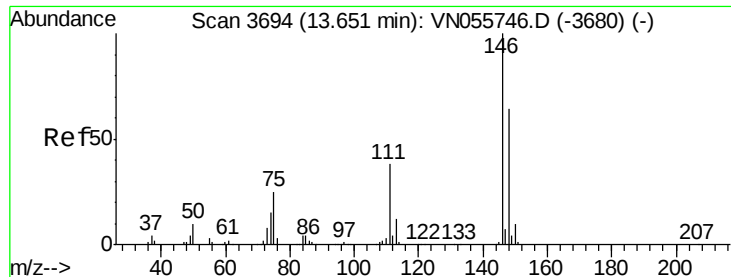


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#91

1,2-Dichlorobenzene

Concen: 0.348 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN055928.D

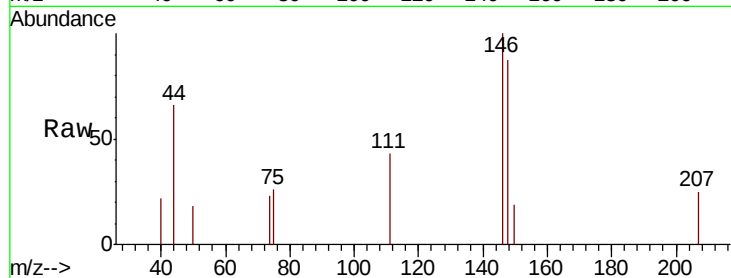
Acq: 31 May 2019 18:54

Instrument :

MSVOA\_N

ClientSampleId :

LF012MW008-190528



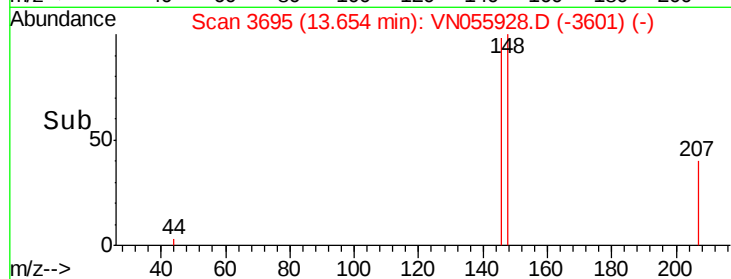
Tot Ion:146 Resp: 1774

Ion Ratio Lower Upper

146 100

111 41.1 19.1 57.5

148 67.8 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

