

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN022519\
 Data File : VN053940.D
 Acq On : 25 Feb 2019 20:03
 Operator : JC/SP
 Sample : K1595-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-CBF-B10

Quant Time: Feb 26 06:20:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 05:37:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	600422	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1112538	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1049836	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	381027	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	391934	55.69	ug/l	0.00
Spiked Amount			Recovery	=	111.38%	
35) Dibromofluoromethane	7.59	113	361924	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	
50) Toluene-d8	10.09	98	1386597	51.77	ug/l	0.00
Spiked Amount			Recovery	=	103.54%	
62) 4-Bromofluorobenzene	12.40	95	449360	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	

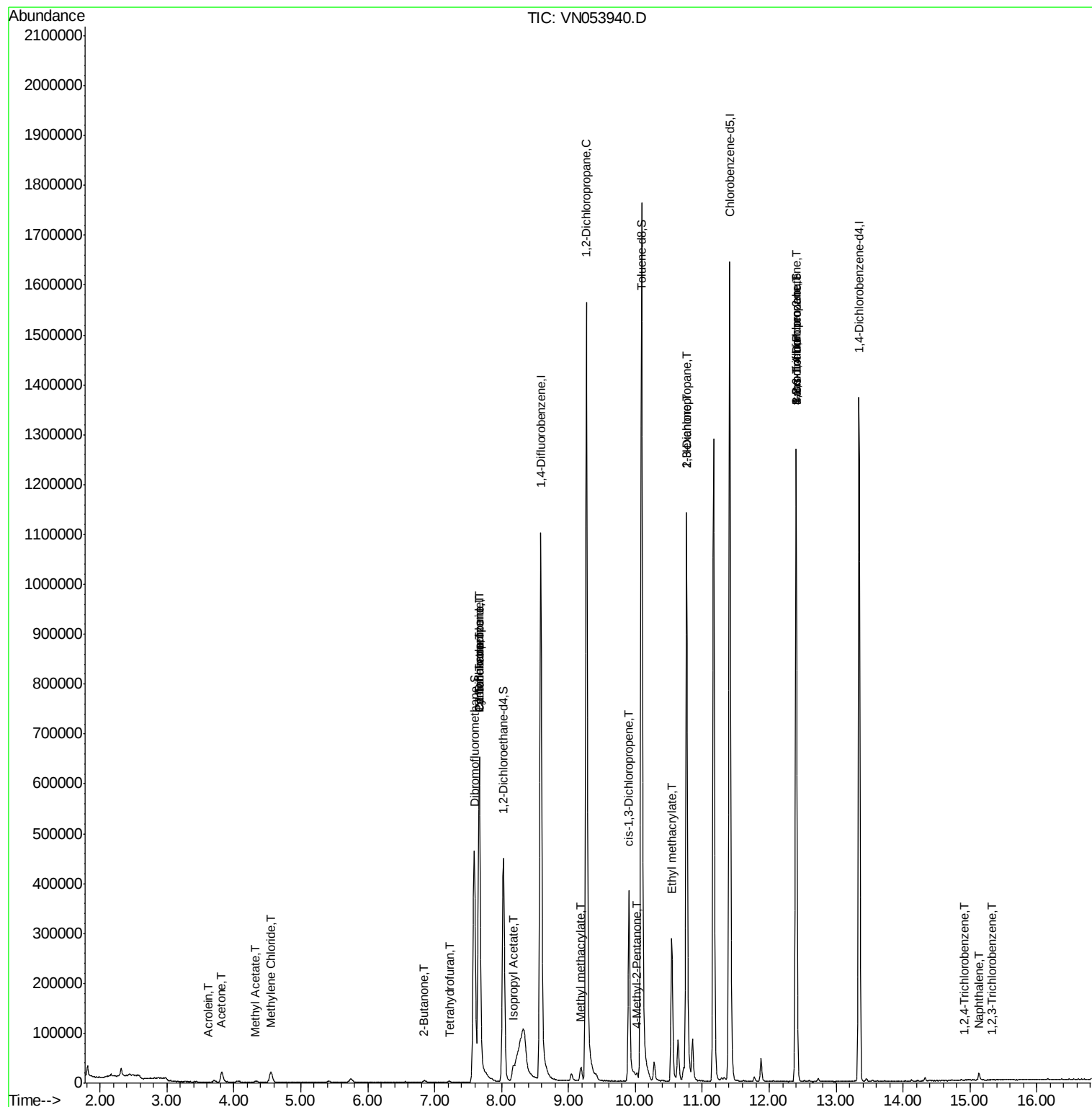
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	287	0.621	ug/l #	81
16) Acetone	3.82	43	36494	7.809	ug/l	100
18) Methyl Acetate	4.33	43	2288	0.465	ug/l #	62
20) Methylene Chloride	4.55	84	15592	2.238	ug/l	93
25) 2-Butanone	6.84	43	7484	2.708	ug/l #	87
29) Tetrahydrofuran	7.22	42	375	0.204	ug/l #	7
31) Cyclohexane	7.67	56	10672	0.543	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40517	3.916	ug/l #	47
38) Carbon Tetrachloride	7.67	117	52951	4.921	ug/l #	16
43) Isopropyl Acetate	8.17	43	35553	2.850	ug/l #	89
45) 1,2-Dichloropropane	9.27	63	1852	0.216	ug/l #	44
48) Methyl methacrylate	9.18	41	10864	1.894	ug/l #	23
51) 4-Methyl-2-Pentanone	10.03	43	9758	1.522	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	71542	5.945	ug/l #	71
56) Ethyl methacrylate	10.55	69	1655	2.128	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	13167	1.115	ug/l #	43
59) 2-Hexanone	10.76	43	182278	43.725	ug/l #	48
71) Bromoform	12.41	173	3110	0.560	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	219046	35.837	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	219046	113.266	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	29	2.227	ug/l #	1
95) Naphthalene	15.14	128	12135	3.964	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	61	1.567	ug/l #	13

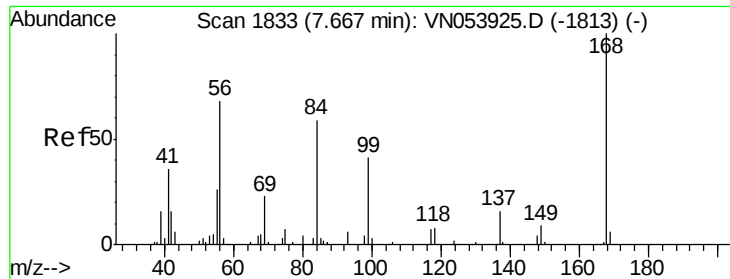
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Feb 26 05:37:40 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

Instrument :

MSVOA_N

ClientSampled :

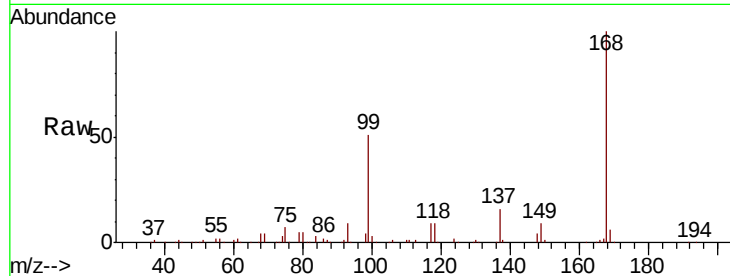
TP-CBF-B10

Tgt Ion:168 Resp: 600422

Ion Ratio Lower Upper

168 100

99 50.5 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): VN053940.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053940.D (-1740) (-)

7.67

250000

200000

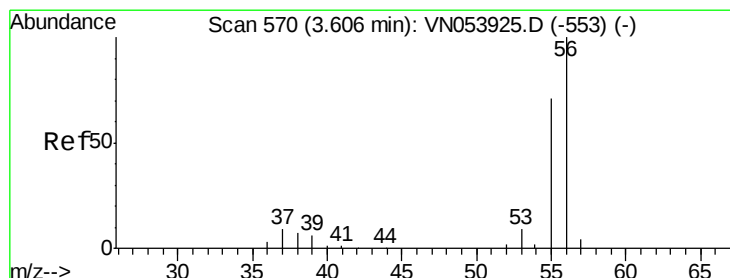
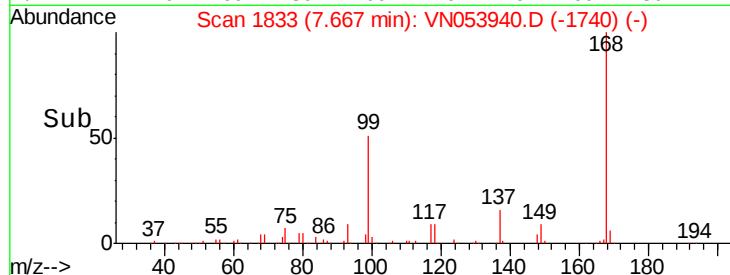
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.621 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN053940.D

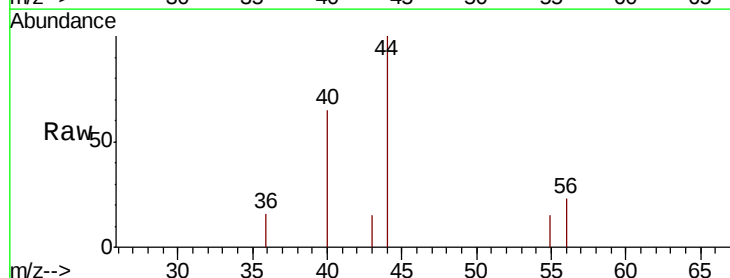
Acq: 25 Feb 2019 20:03

Tgt Ion: 56 Resp: 287

Ion Ratio Lower Upper

56 100

55 54.4 56.3 84.5#



Abundance Ion 56.00 (55.70 to 56.70): VN053940.D (-476) (-)

Ion 55.00 (54.70 to 55.70): VN053940.D (-476) (-)

3.62

250

200

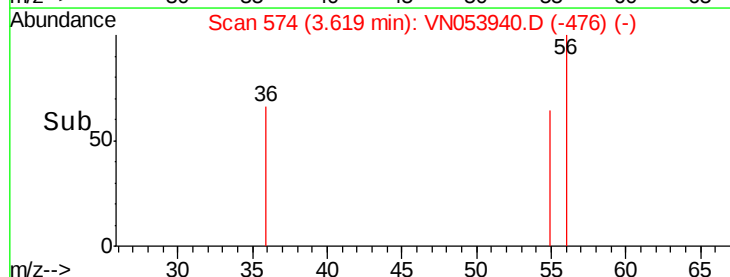
150

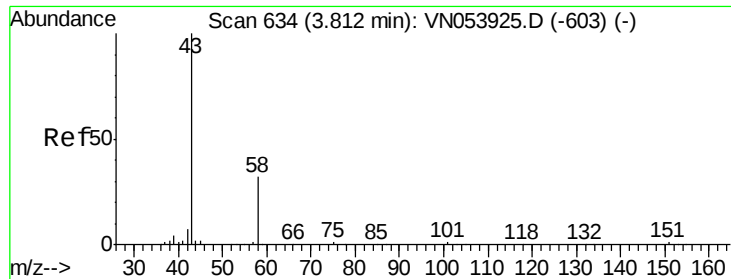
100

50

0

Time-->





#16

Acetone

Concen: 7.809 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

Instrument :

MSVOA_N

ClientSampled :

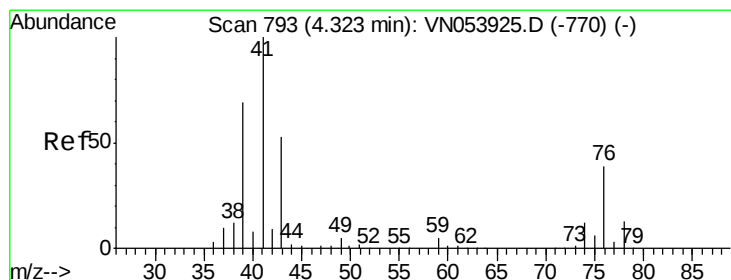
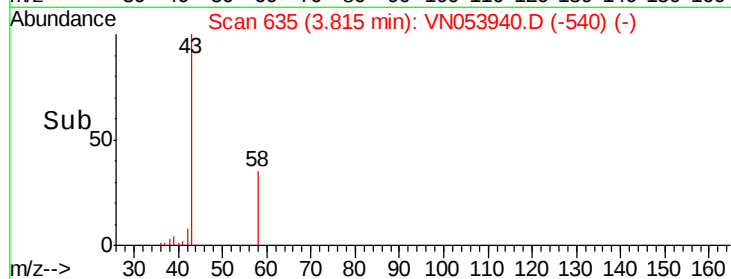
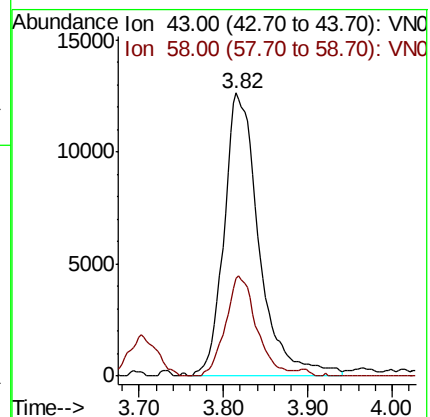
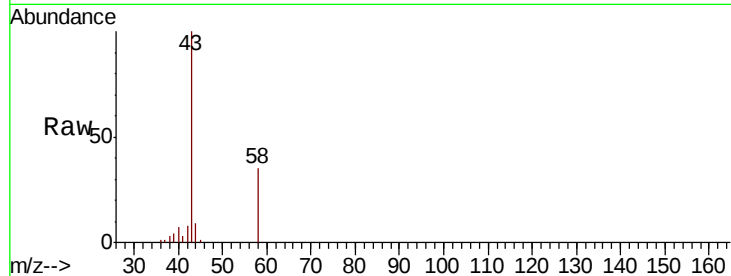
TP-CBF-B10

Tgt Ion: 43 Resp: 36494

Ion Ratio Lower Upper

43 100

58 34.6 27.6 41.4



#18

Methyl Acetate

Concen: 0.465 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN053940.D

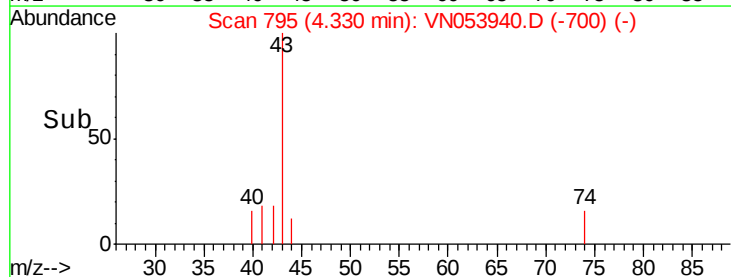
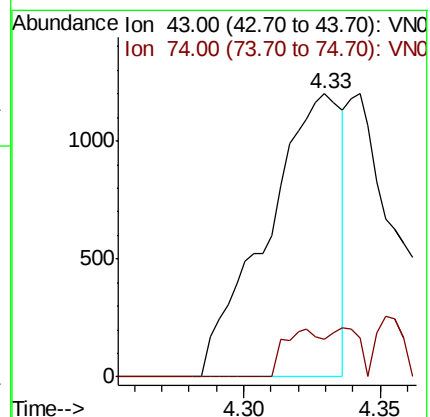
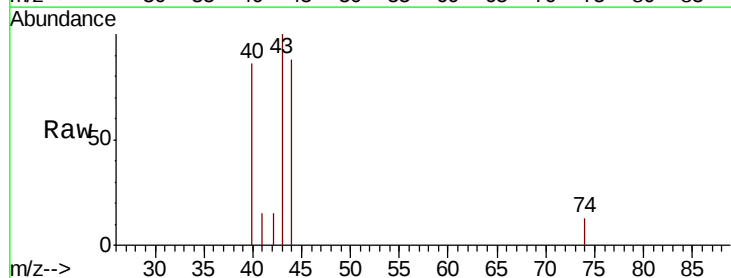
Acq: 25 Feb 2019 20:03

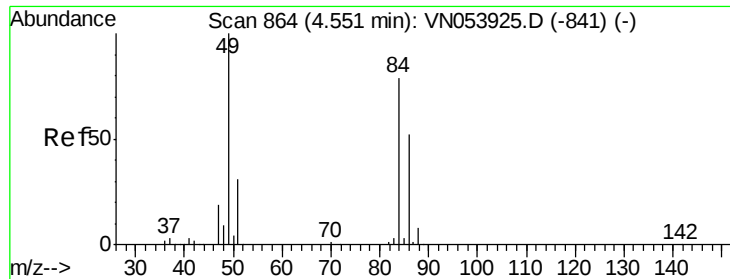
Tgt Ion: 43 Resp: 2288

Ion Ratio Lower Upper

43 100

74 6.4 20.5 30.7#

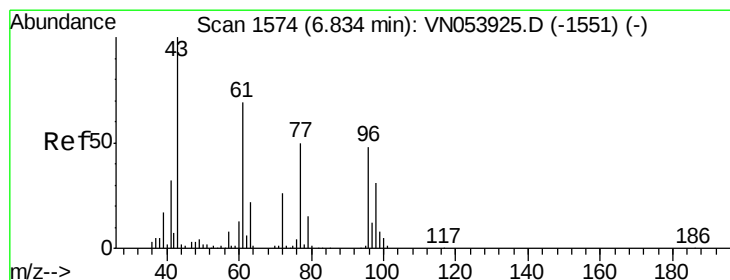
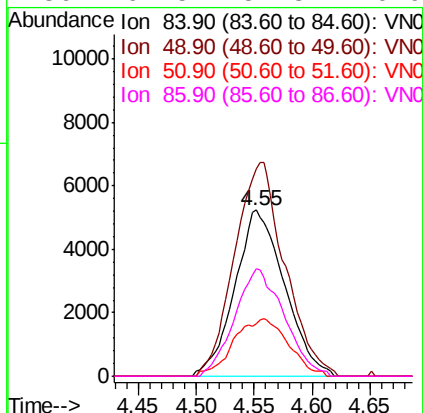
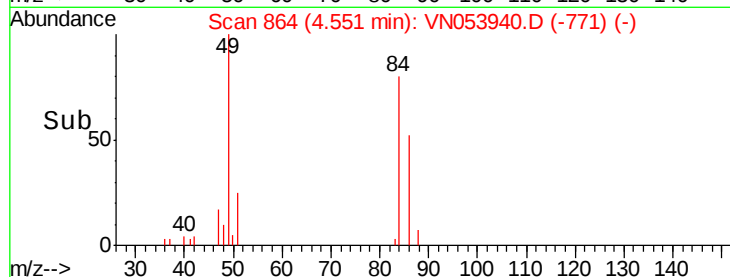
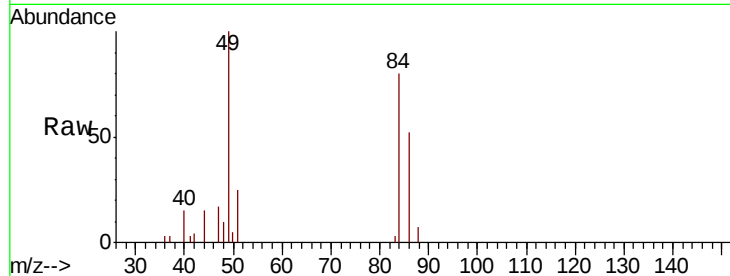




#20
Methylene Chloride
Concen: 2.238 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053940.D
Acq: 25 Feb 2019 20:03

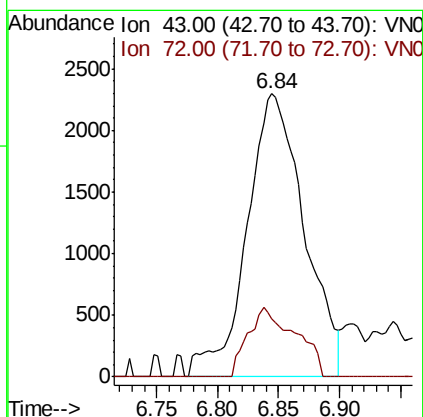
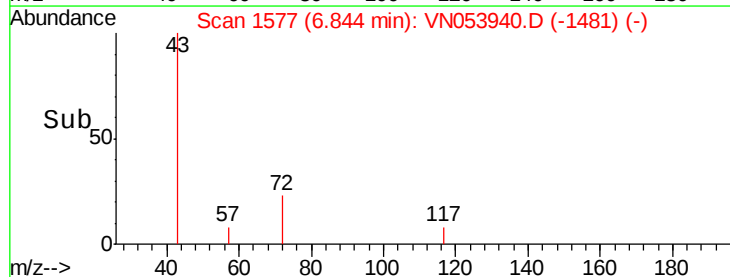
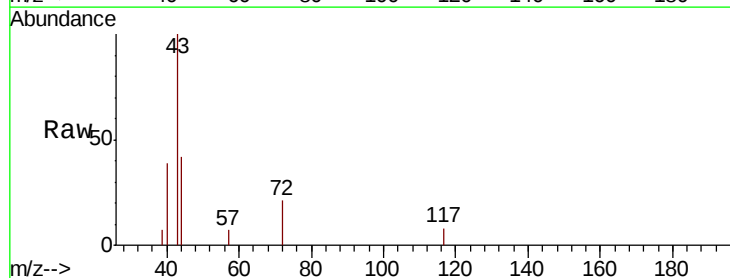
Instrument :
MSVOA_N
ClientSampled :
TP-CBF-B10

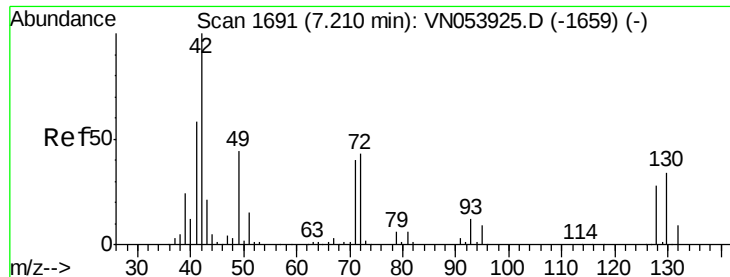
Tgt Ion: 84 Resp: 15592
Ion Ratio Lower Upper
84 100
49 125.1 89.7 134.5
51 31.8 27.8 41.8
86 64.5 51.3 76.9



#25
2-Butanone
Concen: 2.708 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053940.D
Acq: 25 Feb 2019 20:03

Tgt Ion: 43 Resp: 7484
Ion Ratio Lower Upper
43 100
72 20.6 22.1 33.1#





#29

Tetrahydrofuran

Concen: 0.204 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.01 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

Instrument :

MSVOA_N

ClientSampleId :

TP-CBF-B10

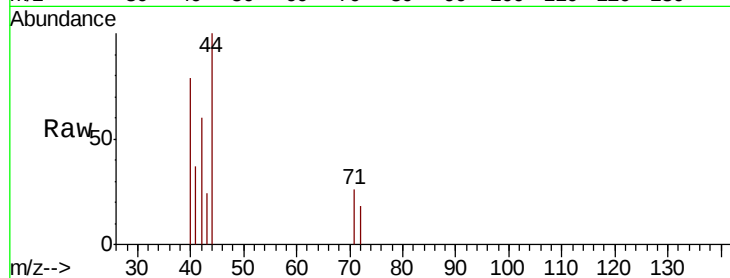
Tgt Ion: 42 Resp: 375

Ion Ratio Lower Upper

42 100

72 101.9 36.9 55.3#

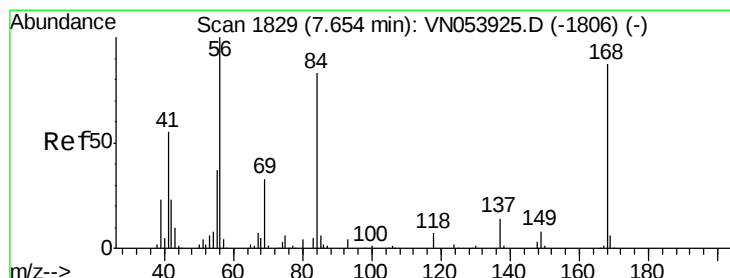
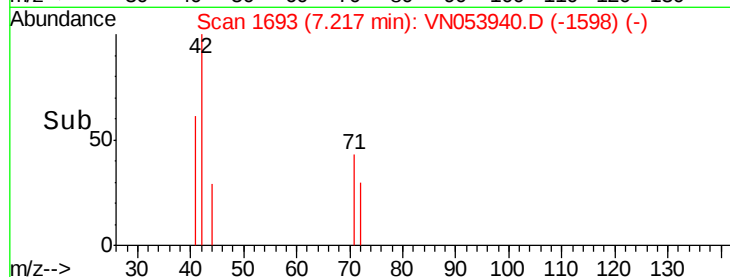
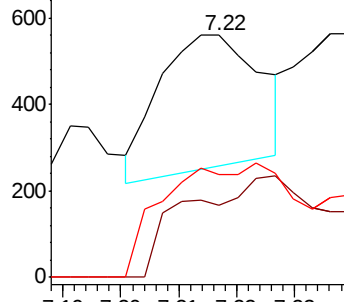
71 109.6 34.6 52.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.543 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

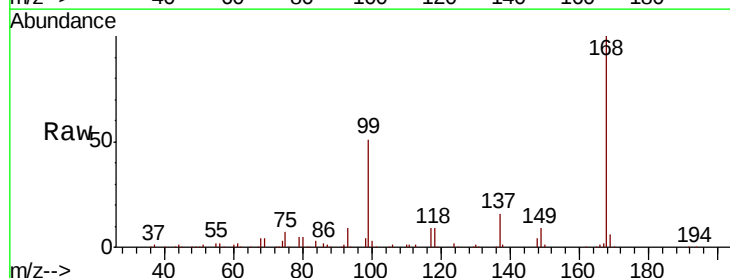
Tgt Ion: 56 Resp: 10672

Ion Ratio Lower Upper

56 100

69 203.1 26.0 39.0#

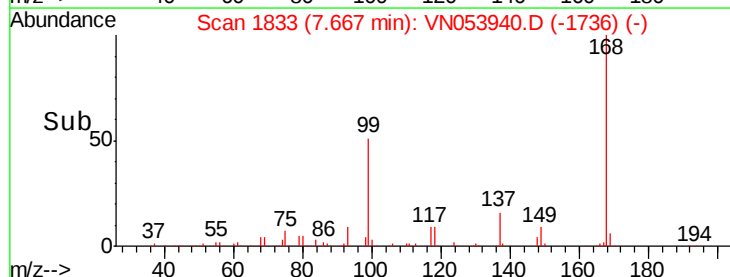
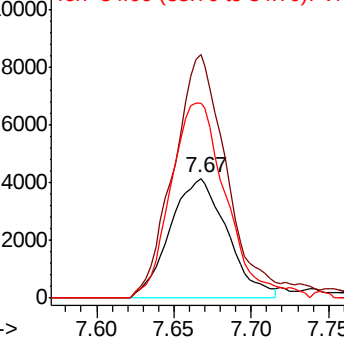
84 162.6 69.1 103.7#

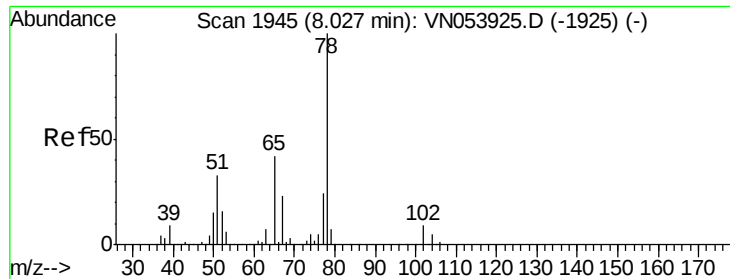


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

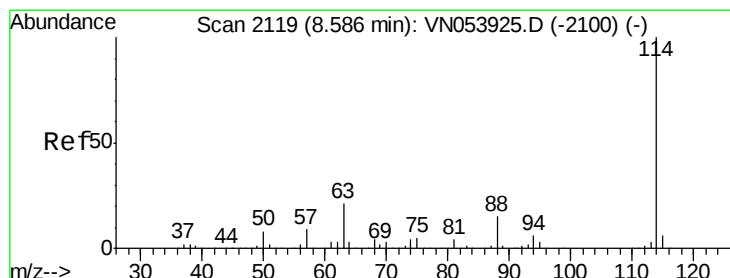
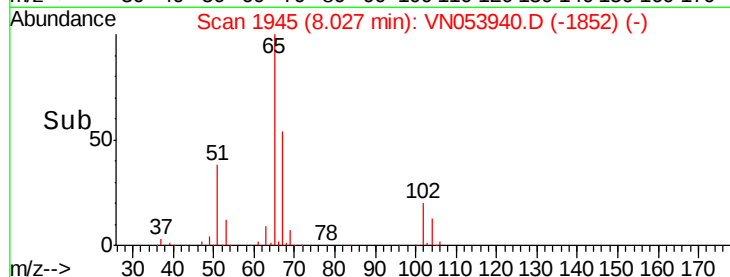
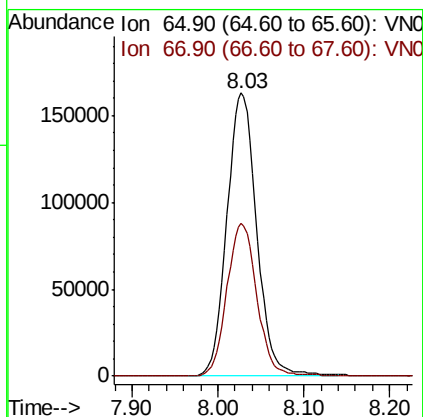
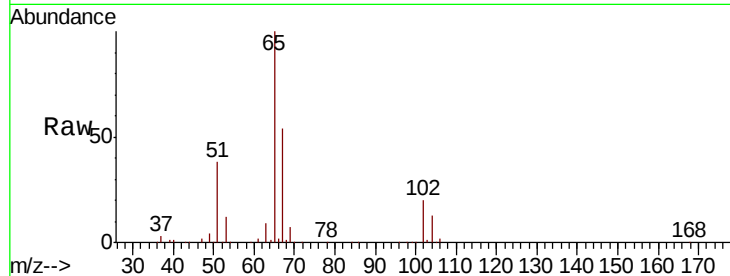




#33
1,2-Dichloroethane-d4
Concen: 55.686 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN053940.D
Acq: 25 Feb 2019 20:03

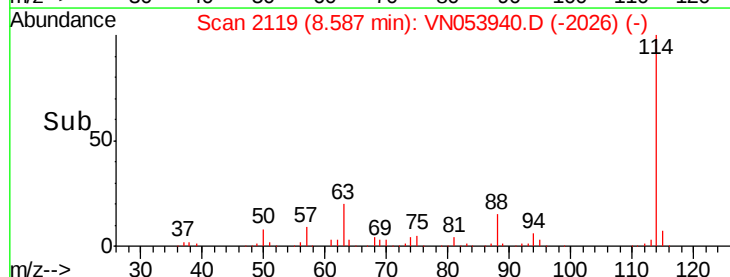
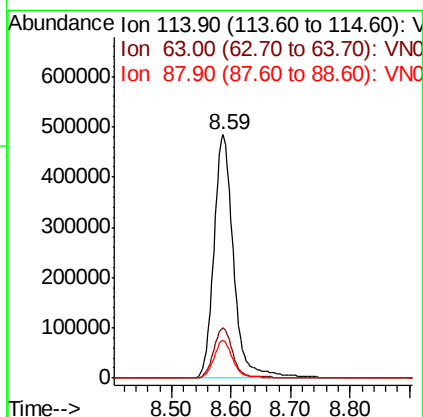
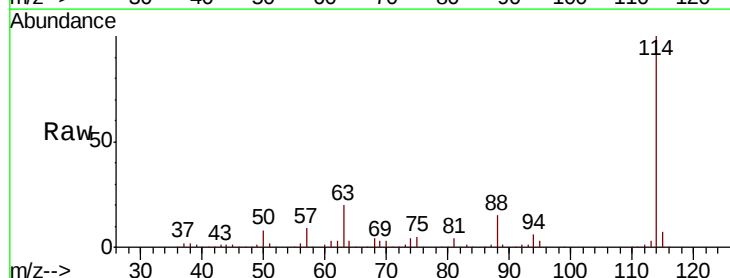
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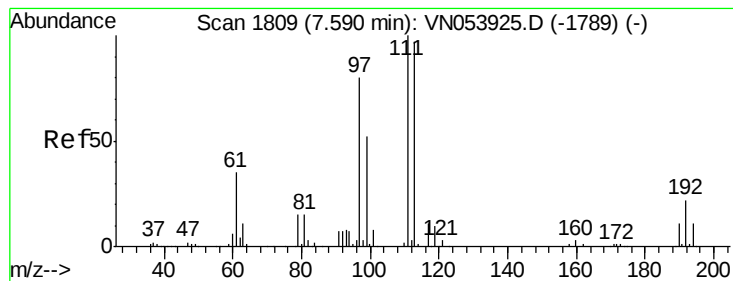
Tgt Ion: 65 Resp: 391934
Ion Ratio Lower Upper
65 100
67 54.3 0.0 111.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN053940.D
Acq: 25 Feb 2019 20:03

Tgt Ion: 114 Resp: 1112538
Ion Ratio Lower Upper
114 100
63 20.5 0.0 37.4
88 15.5 0.0 30.4





#35

Dibromofluoromethane

Concen: 50.307 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

Instrument :

MSVOA_N

ClientSampleId :

TP-CBF-B10

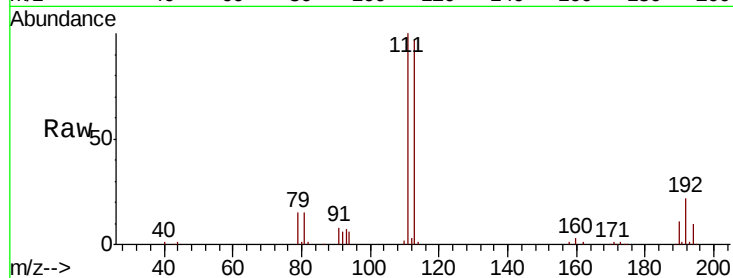
Tgt Ion:113 Resp: 361924

Ion Ratio Lower Upper

113 100

111 103.4 81.1 121.7

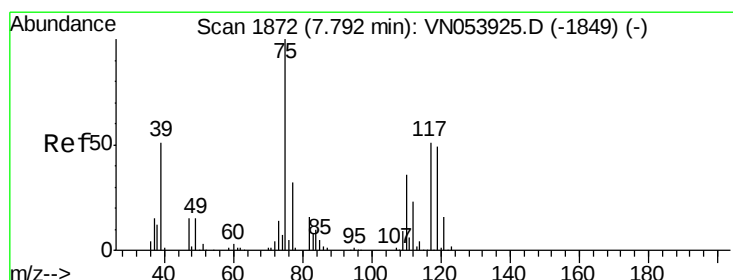
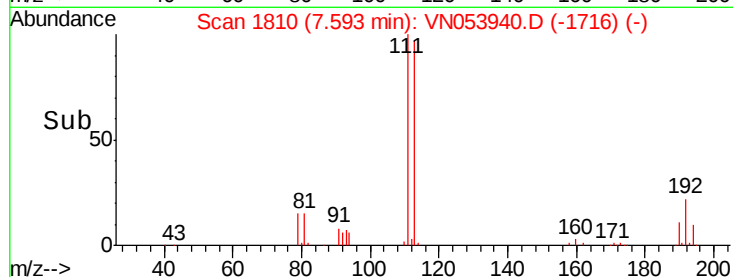
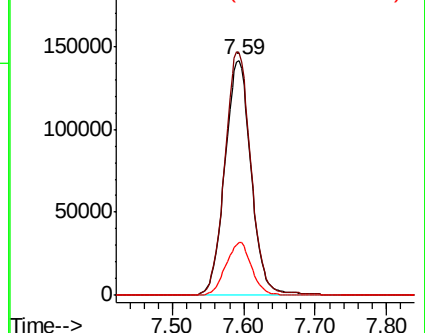
192 22.1 18.8 28.2



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: 3.916 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

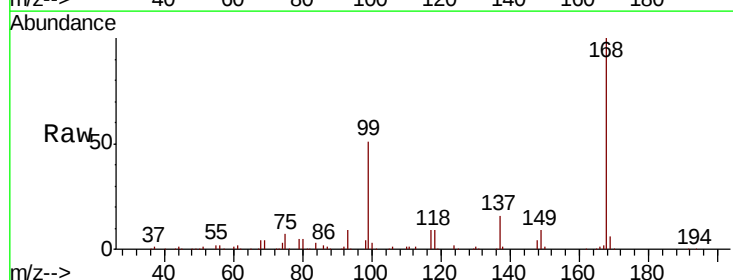
Tgt Ion: 75 Resp: 40517

Ion Ratio Lower Upper

75 100

110 8.4 19.0 57.0#

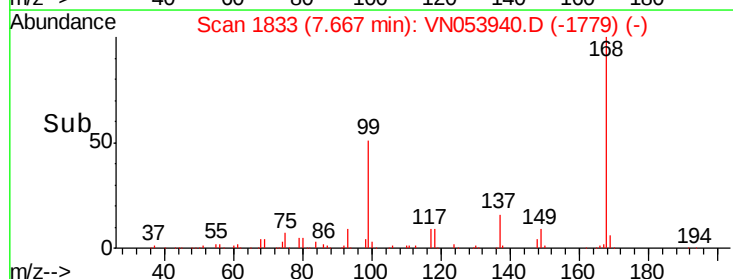
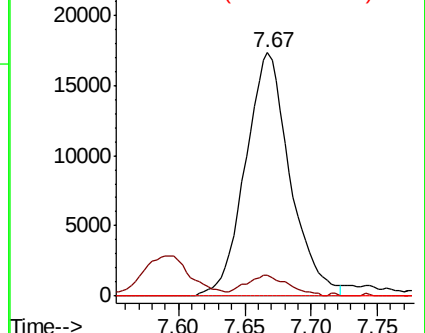
77 0.0 25.4 38.0#

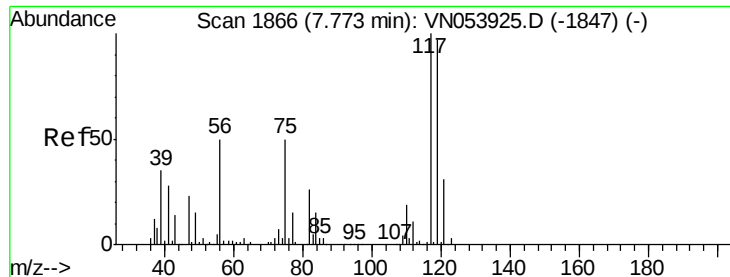


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.921 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

Instrument :

MSVOA_N

ClientSampleId :

TP-CBF-B10

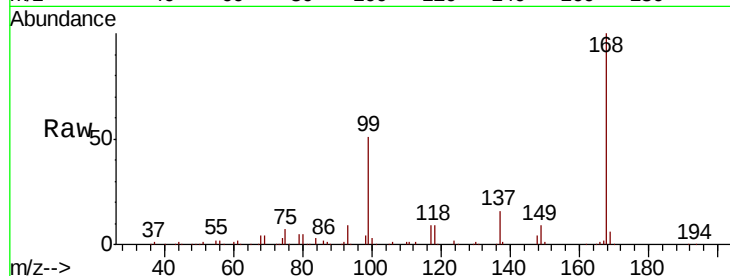
Tgt Ion:117 Resp: 52951

Ion Ratio Lower Upper

117 100

119 5.0 76.2 114.2#

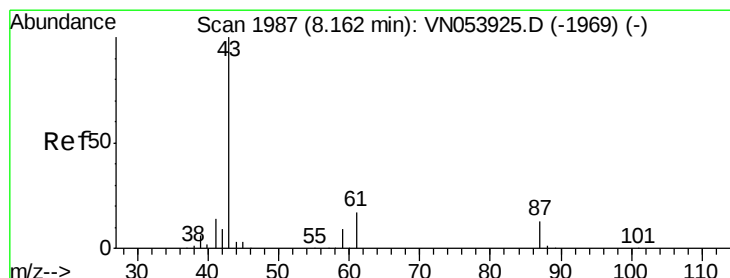
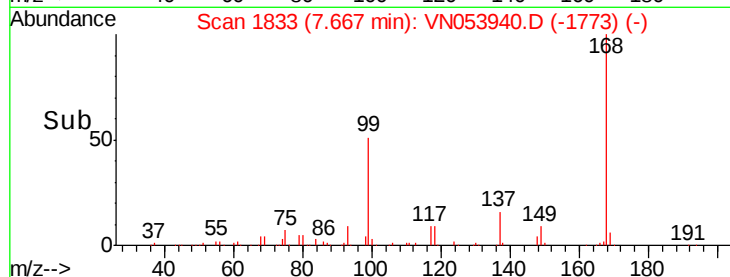
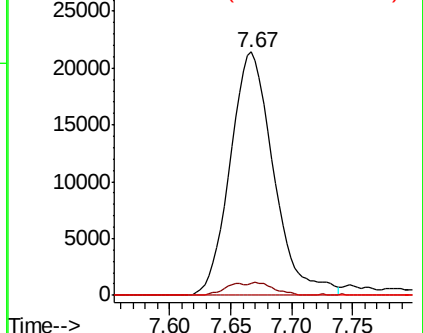
121 0.0 24.6 36.8#



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: 2.850 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

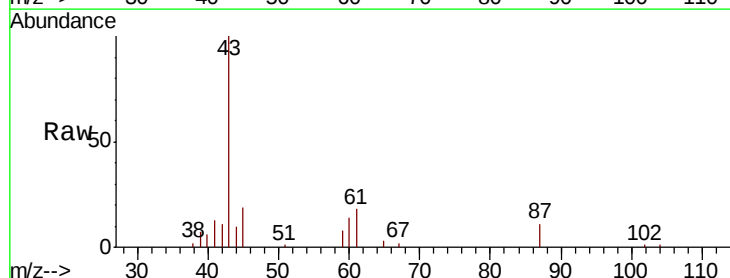
Tgt Ion: 43 Resp: 35553

Ion Ratio Lower Upper

43 100

61 16.2 17.4 26.0#

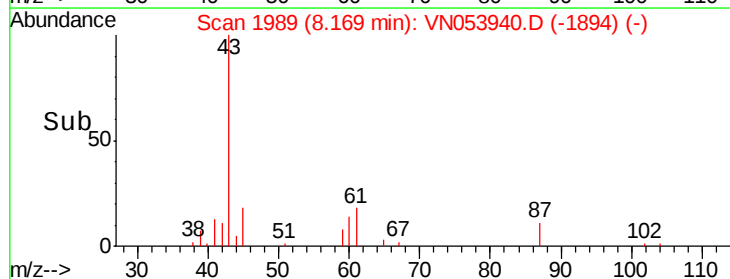
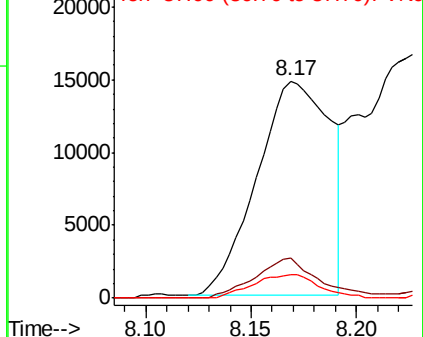
87 9.9 11.5 17.3#

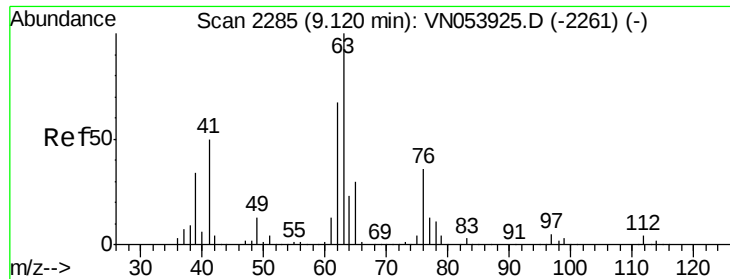


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

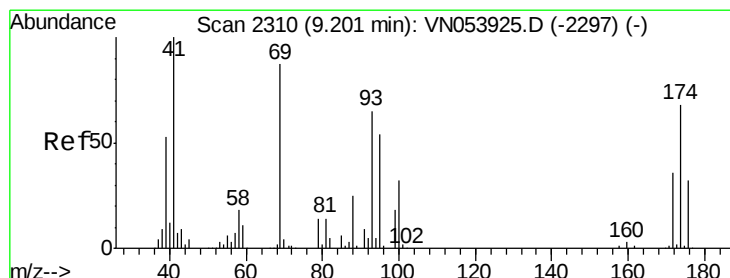
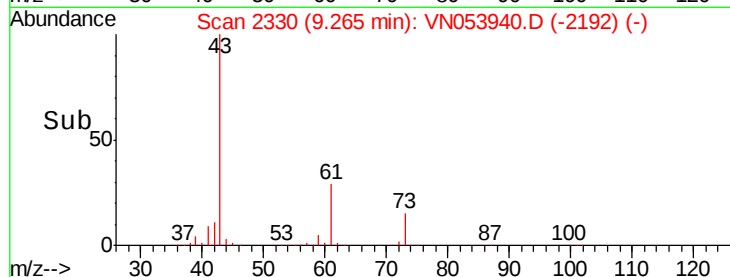
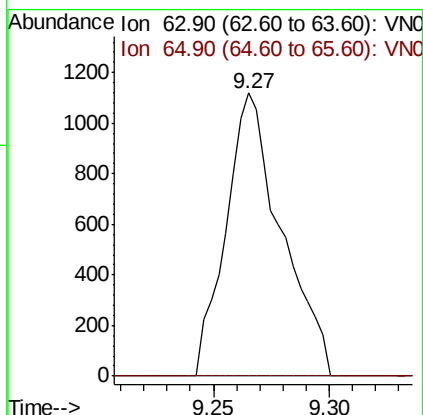
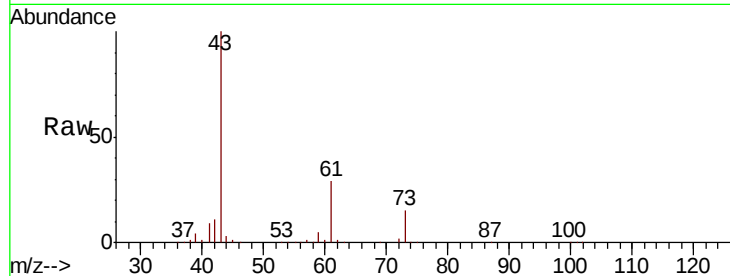




#45
 1,2-Dichloropropane
 Concen: 0.216 ug/l
 RT: 9.27 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN053940.D
 Acq: 25 Feb 2019 20:03

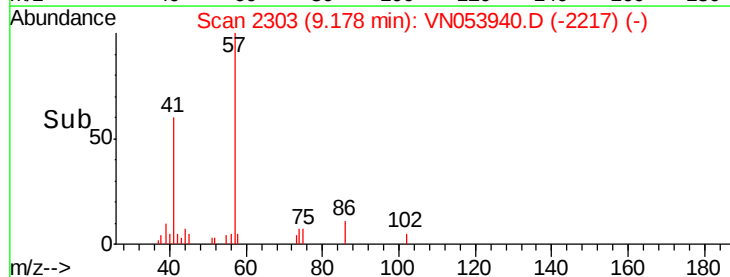
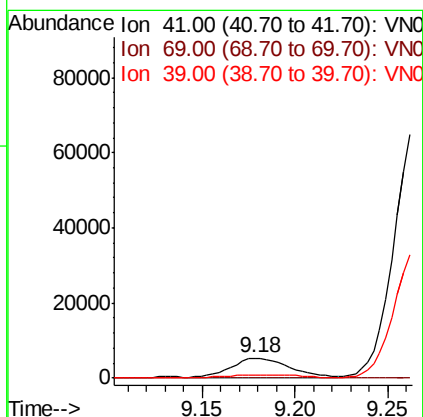
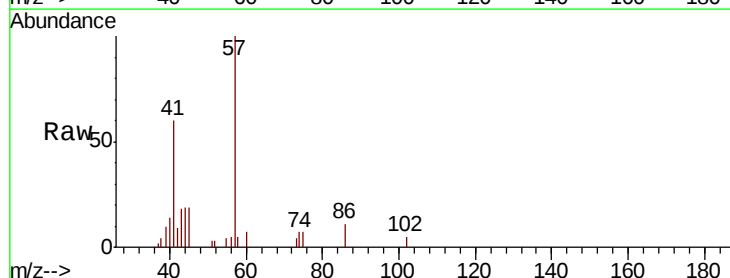
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-CBF-B10

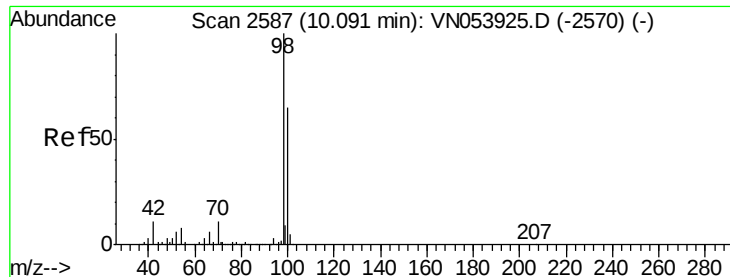
Tgt Ion: 63 Resp: 1852
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.3 36.5#



#48
 Methyl methacrylate
 Concen: 1.894 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053940.D
 Acq: 25 Feb 2019 20:03

Tgt Ion: 41 Resp: 10864
 Ion Ratio Lower Upper
 41 100
 69 0.0 74.8 112.2#
 39 22.9 39.0 58.6#





#50

Toluene-d8

Concen: 51.775 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

Instrument :

MSVOA_N

ClientSampled :

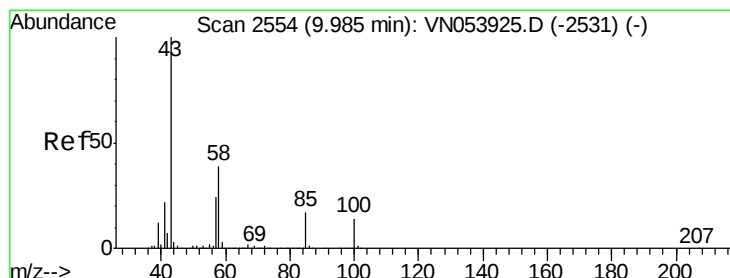
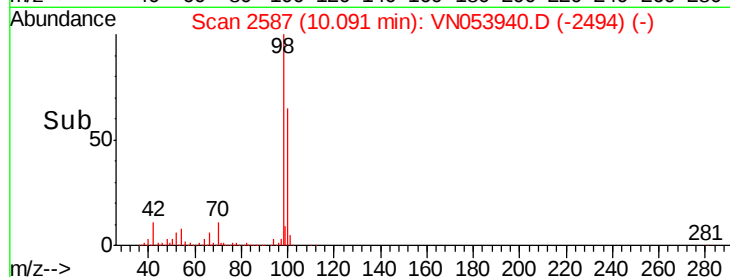
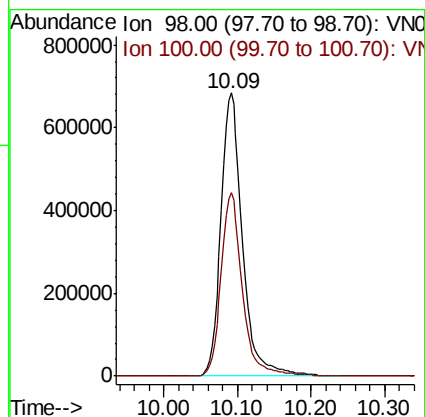
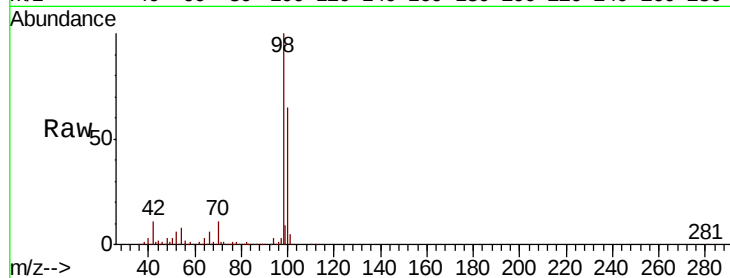
TP-CBF-B10

Tgt Ion: 98 Resp: 1386597

Ion Ratio Lower Upper

98 100

100 64.3 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 1.522 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN053940.D

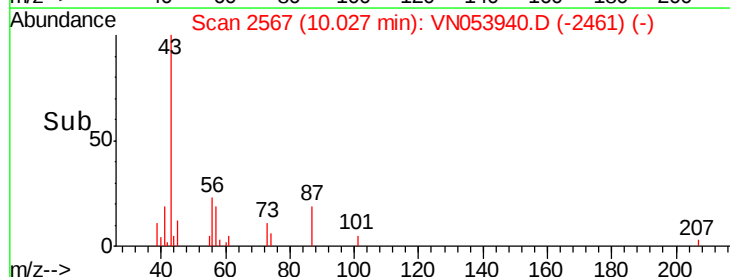
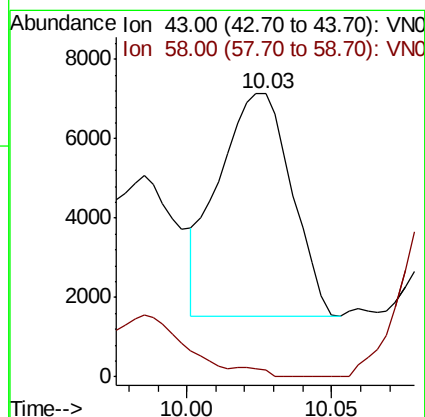
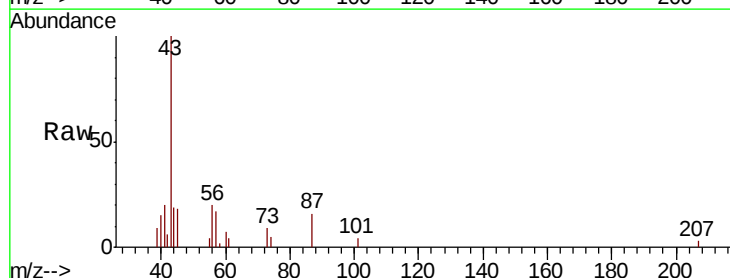
Acq: 25 Feb 2019 20:03

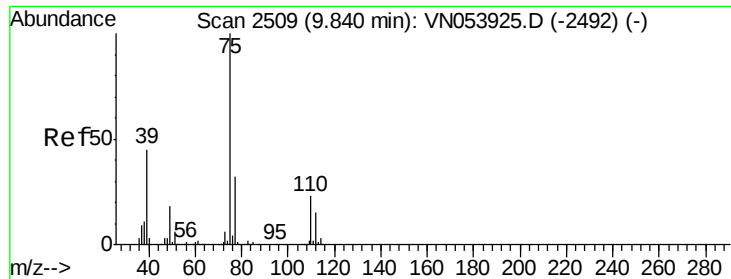
Tgt Ion: 43 Resp: 9758

Ion Ratio Lower Upper

43 100

58 0.0 32.7 49.1#





#54

cis-1,3-Dichloropropene

Concen: 5.945 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

Instrument :

MSVOA_N

ClientSampleId :

TP-CBF-B10

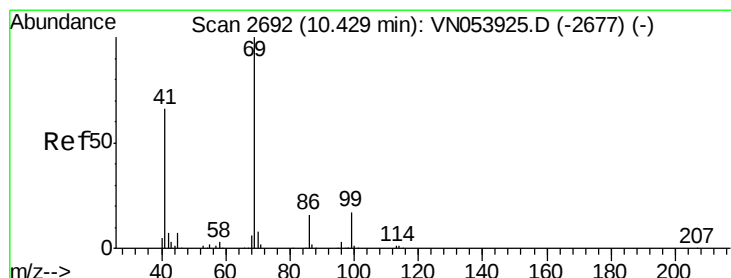
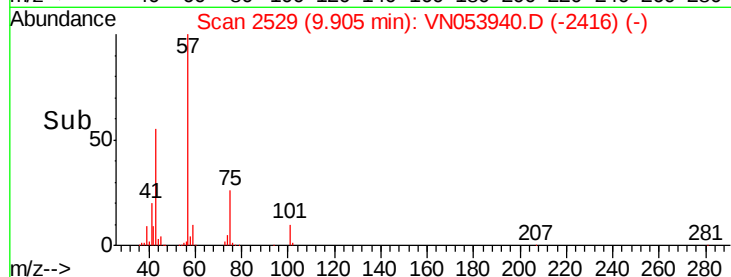
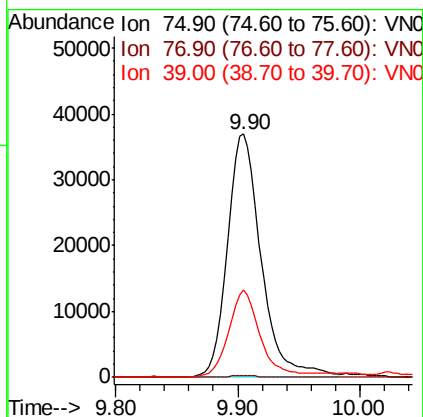
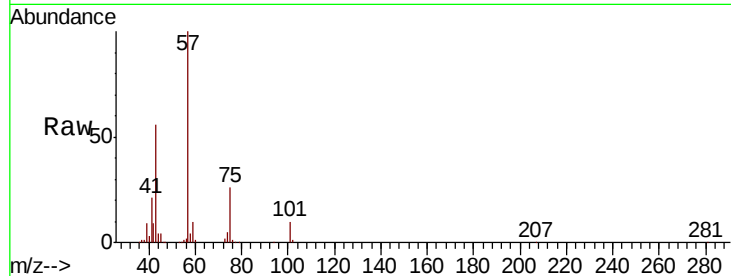
Tgt Ion: 75 Resp: 71542

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 35.7 31.4 47.0



#56

Ethyl methacrylate

Concen: 2.128 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

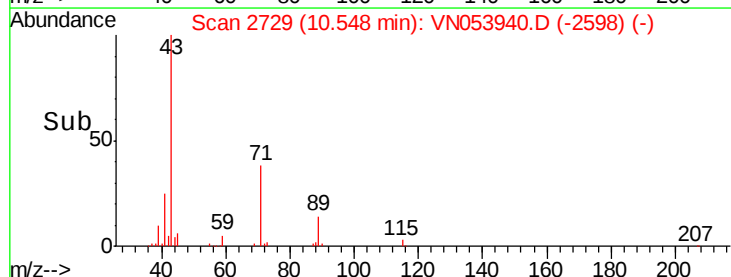
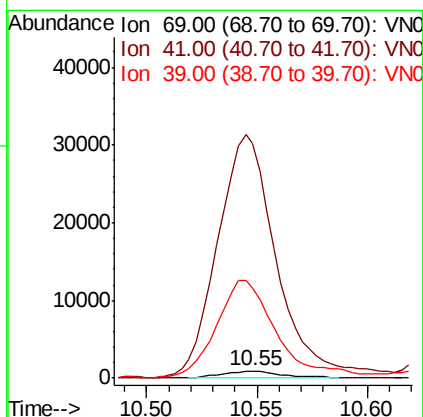
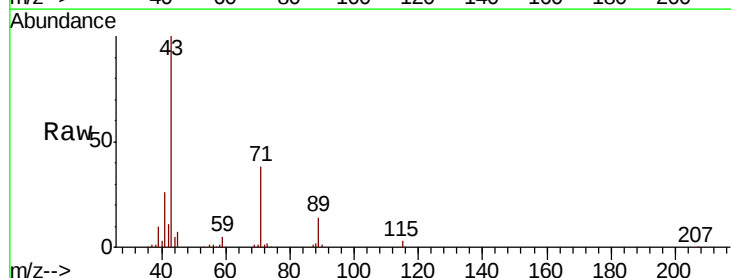
Tgt Ion: 69 Resp: 1655

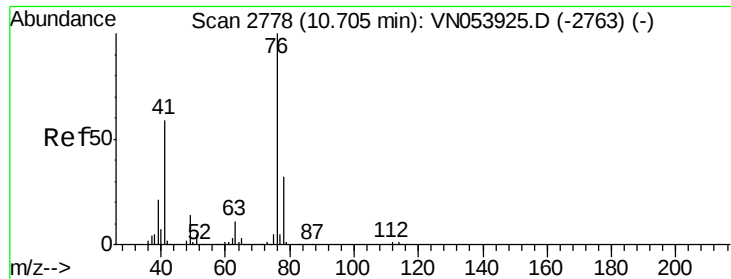
Ion Ratio Lower Upper

69 100

41 3548.1 47.5 71.3#

39 1441.1 23.4 35.0#

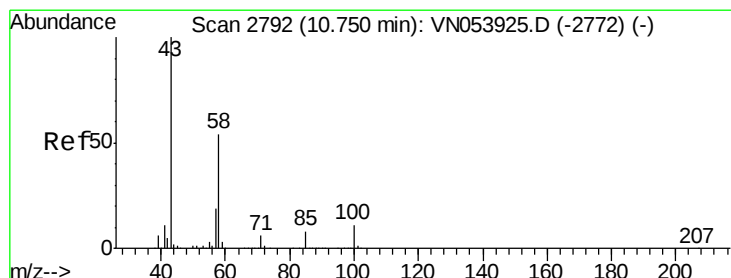
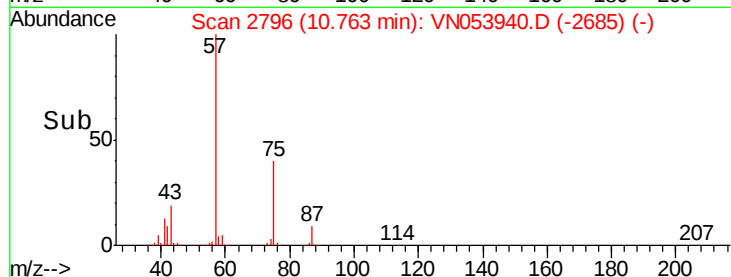
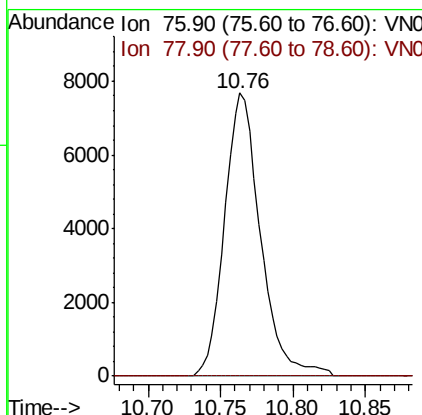
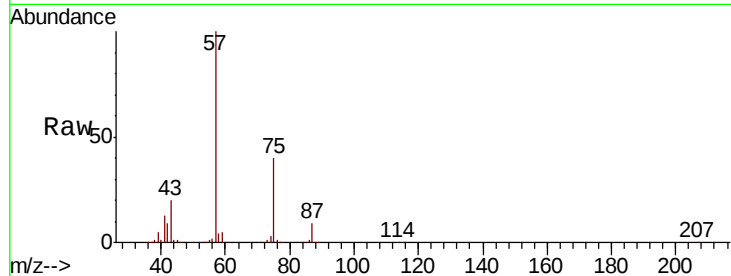




#57
 1,3-Dichloropropane
 Concen: 1.115 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN053940.D
 Acq: 25 Feb 2019 20:03

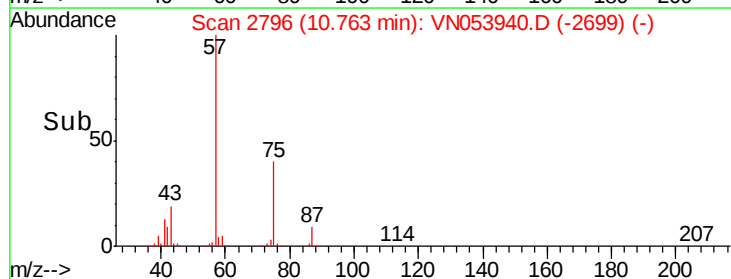
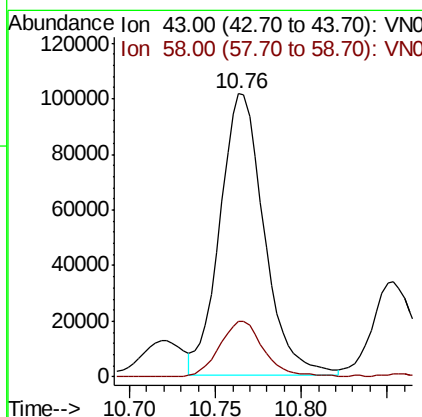
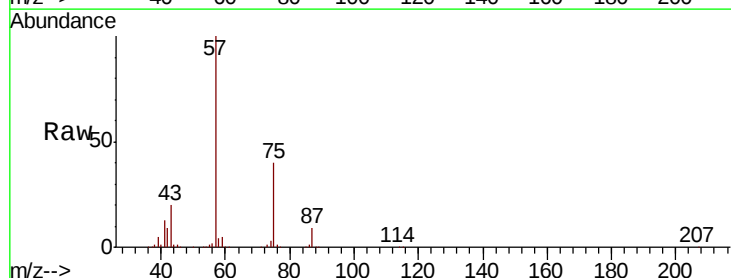
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-CBF-B10

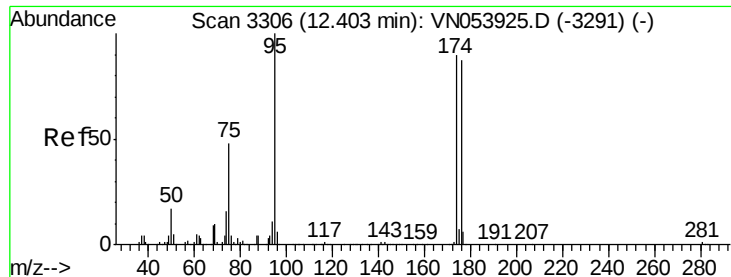
Tgt Ion: 76 Resp: 13167
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 43.725 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053940.D
 Acq: 25 Feb 2019 20:03

Tgt Ion: 43 Resp: 182278
 Ion Ratio Lower Upper
 43 100
 58 19.8 29.1 87.4#





#62

4-Bromofluorobenzene

Concen: 50.361 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

Instrument :

MSVOA_N

ClientSampleId :

TP-CBF-B10

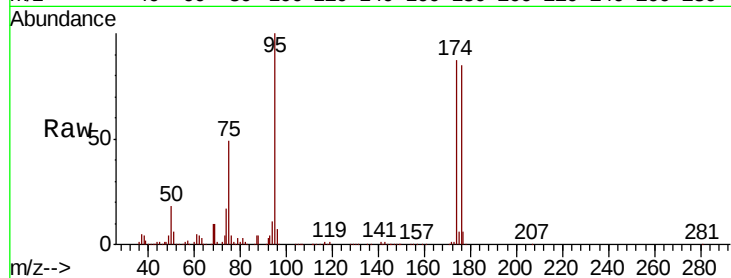
Tgt Ion: 95 Resp: 449360

Ion Ratio Lower Upper

95 100

174 87.9 0.0 188.8

176 85.3 0.0 182.6



Abundance Ion 94.90 (94.60 to 95.60): VN053925.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053925.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053925.D (-3291) (-)

12.40

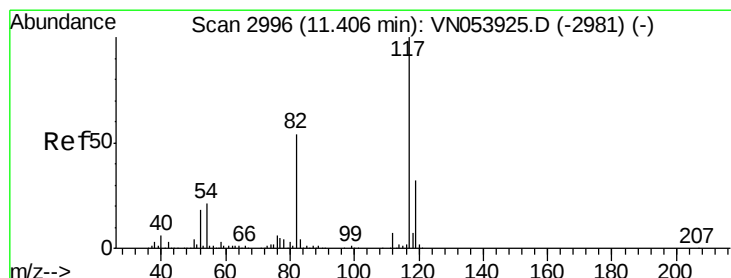
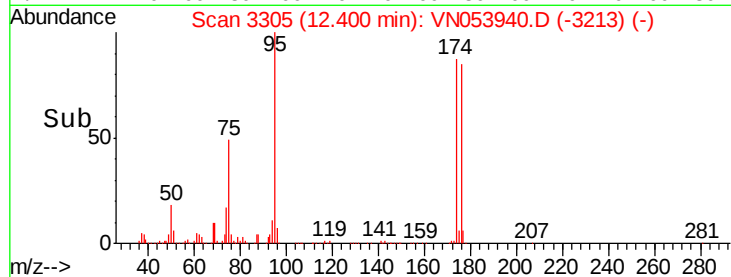
300000

200000

100000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

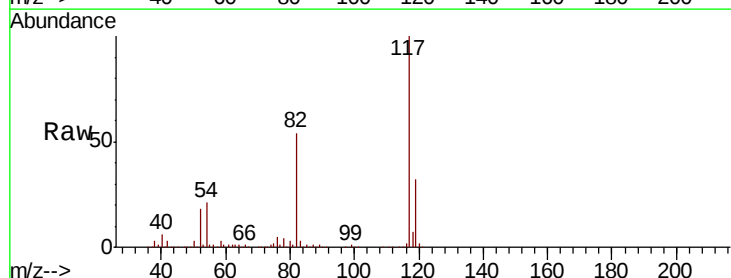
Tgt Ion: 117 Resp: 1049836

Ion Ratio Lower Upper

117 100

82 54.1 41.4 62.2

119 32.0 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN053925.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN053925.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN053925.D (-2981) (-)

11.41

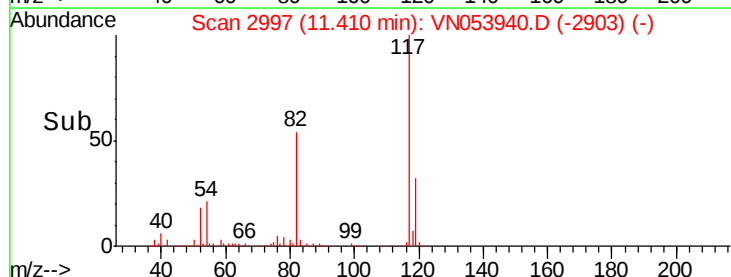
600000

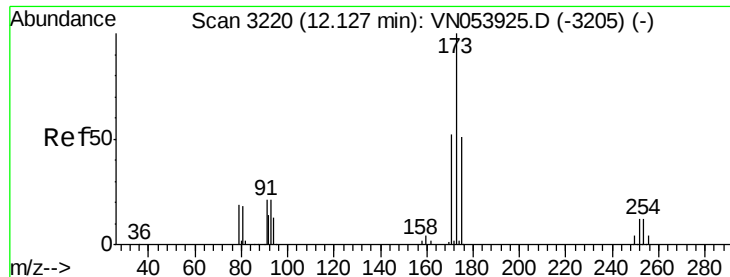
400000

200000

0

Time-->





#71

Bromoform

Concen: 0.560 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

Instrument :

MSVOA_N

ClientSampleId :

TP-CBF-B10

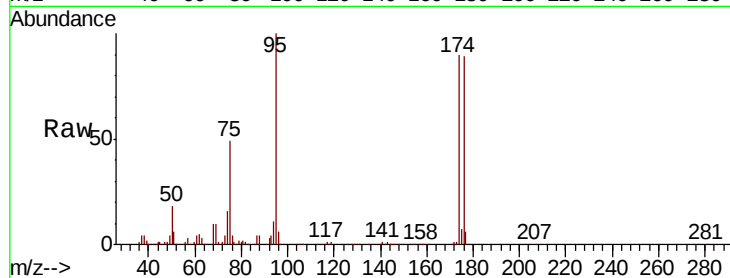
Tgt Ion:173 Resp: 3110

Ion Ratio Lower Upper

173 100

175 781.3 24.3 72.8#

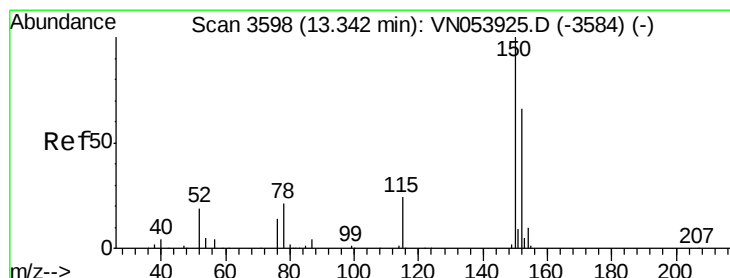
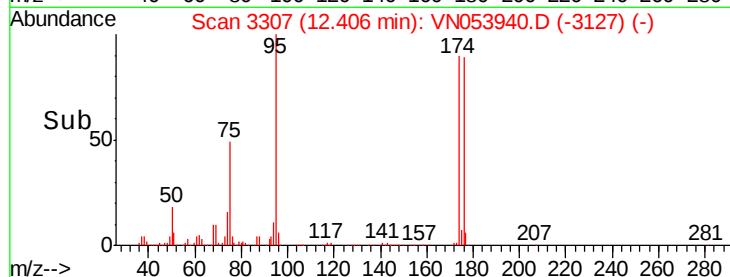
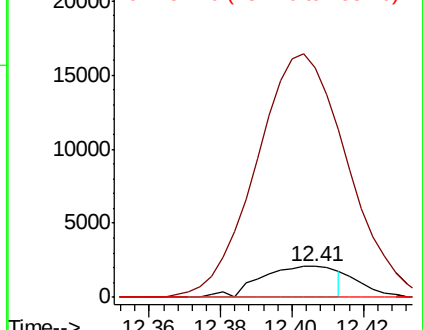
254 0.0 0.2 0.2#



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: VN053940.D

Acq: 25 Feb 2019 20:03

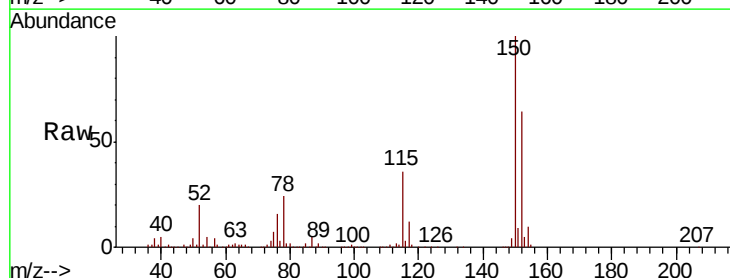
Tgt Ion:152 Resp: 381027

Ion Ratio Lower Upper

152 100

115 56.6 27.2 81.6

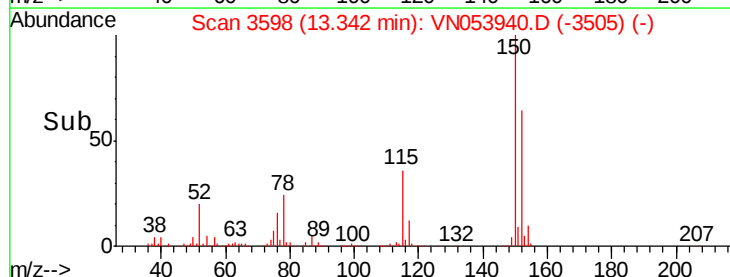
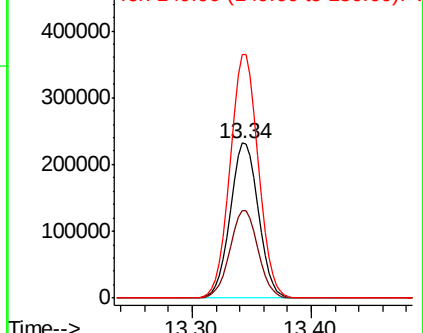
150 157.2 0.0 348.2

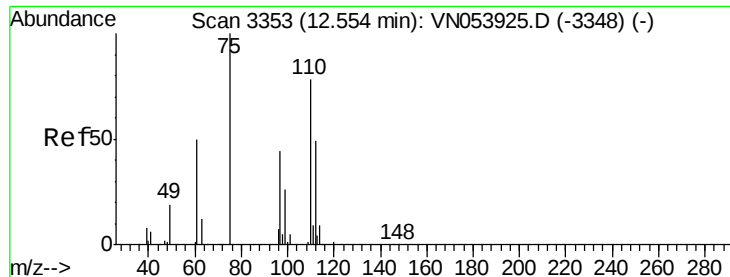


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.837 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

Instrument :

MSVOA_N

ClientSampleId :

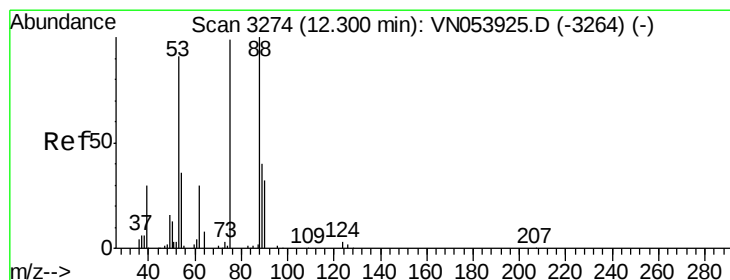
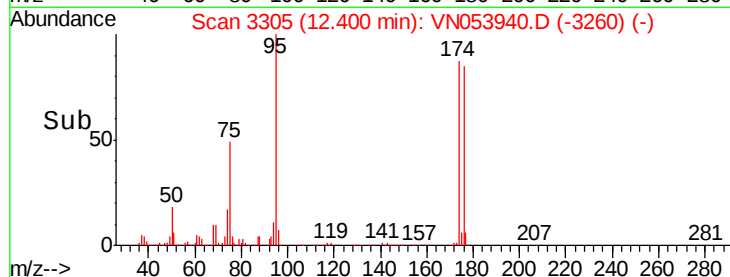
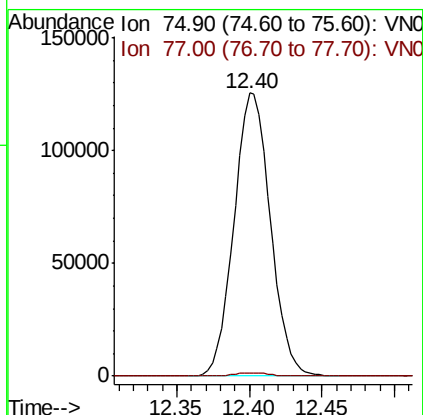
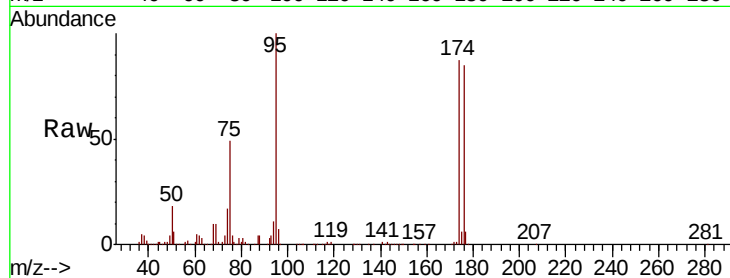
TP-CBF-B10

Tgt Ion: 75 Resp: 219046

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 113.266 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

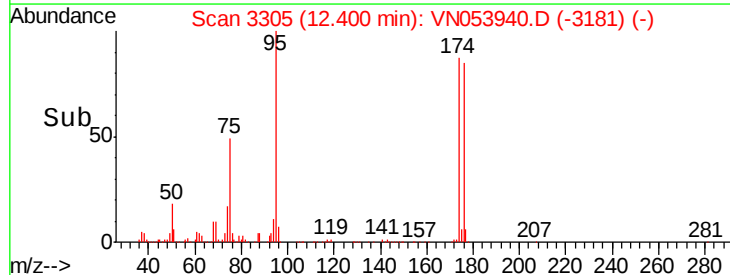
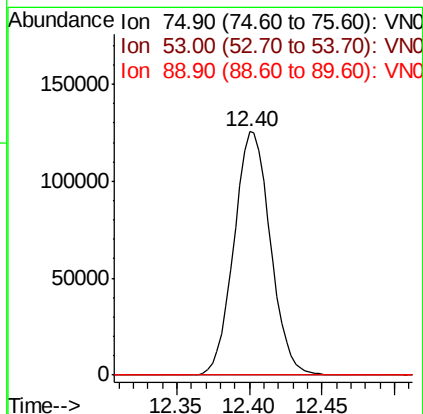
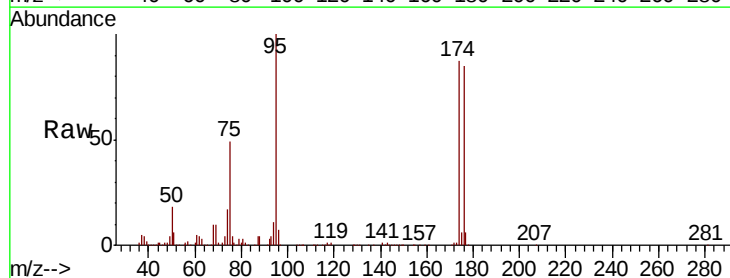
Tgt Ion: 75 Resp: 219046

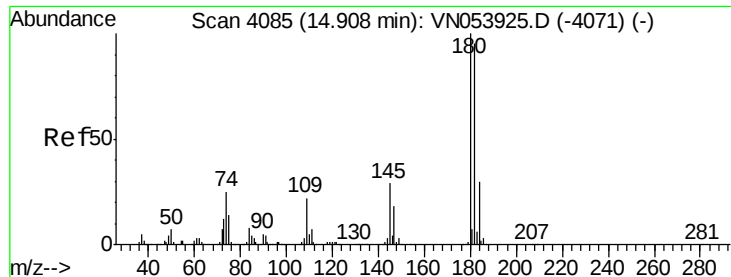
Ion Ratio Lower Upper

75 100

53 0.1 68.6 102.8#

89 0.0 35.3 52.9#





#93

1,2,4-Trichlorobenzene

Concen: 2.227 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

Instrument :

MSVOA_N

ClientSampled :

TP-CBF-B10

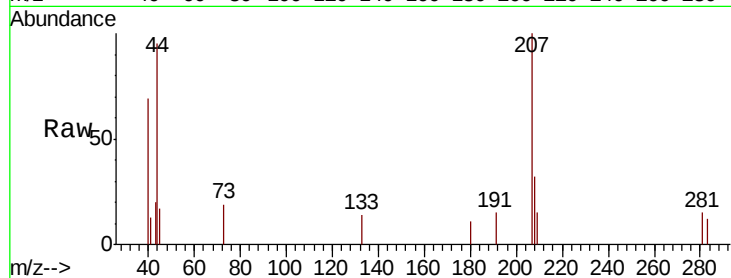
Tgt Ion:180 Resp: 29

Ion Ratio Lower Upper

180 100

182 313.8 48.6 145.9#

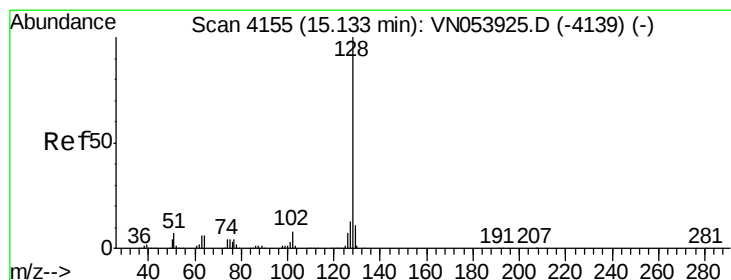
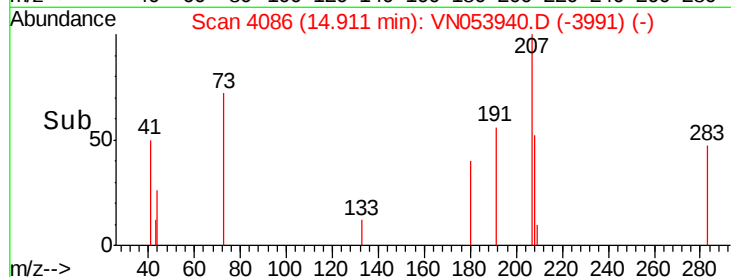
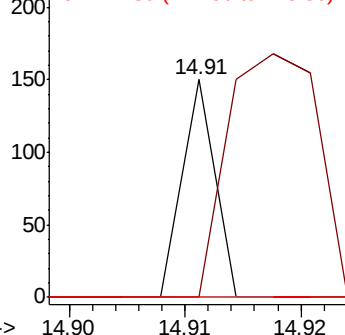
145 0.0 13.8 41.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 3.964 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053940.D

Acq: 25 Feb 2019 20:03

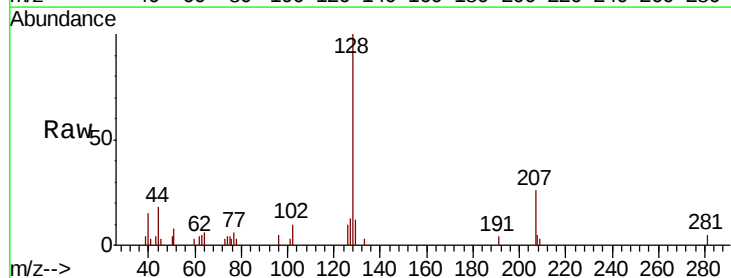
Tgt Ion:128 Resp: 12135

Ion Ratio Lower Upper

128 100

127 12.2 10.2 15.2

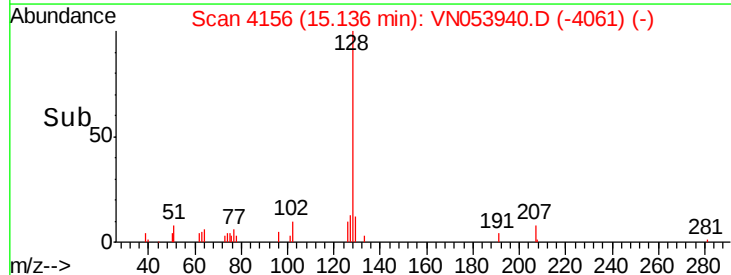
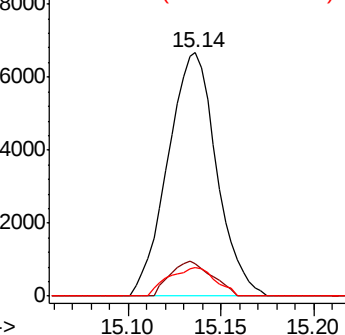
129 11.3 8.6 12.8

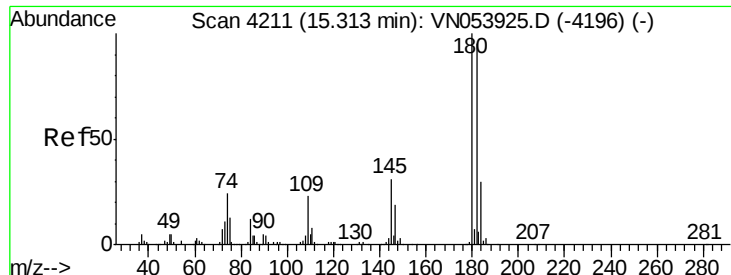


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

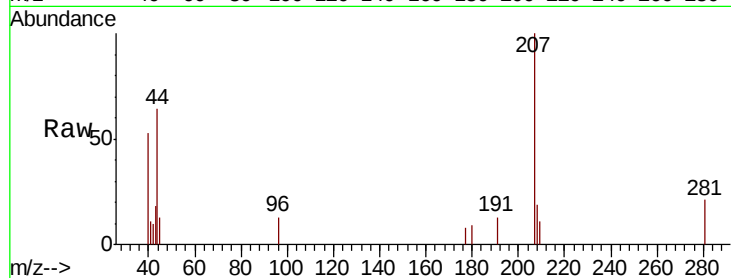




#96
 1,2,3-Trichlorobenzene
 Concen: 1.567 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.01 min
 Lab File: VN053940.D
 Acq: 25 Feb 2019 20:03

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-CBF-B10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.3	141.8#
145	0.0	14.4	43.0#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

