

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112118\
 Data File : VN052436.D
 Acq On : 21 Nov 2018 14:17
 Operator : MD\SY
 Sample : PB114992ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 21 23:57:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	305348	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	509655	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	434954	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	147911	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	229716	53.27	ug/l	0.00
Spiked Amount			Recovery	=	106.54%	
35) Dibromofluoromethane	7.59	113	169384	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	
50) Toluene-d8	10.09	98	650587	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	
62) 4-Bromofluorobenzene	12.40	95	192461	45.24	ug/l	0.00
Spiked Amount			Recovery	=	90.48%	

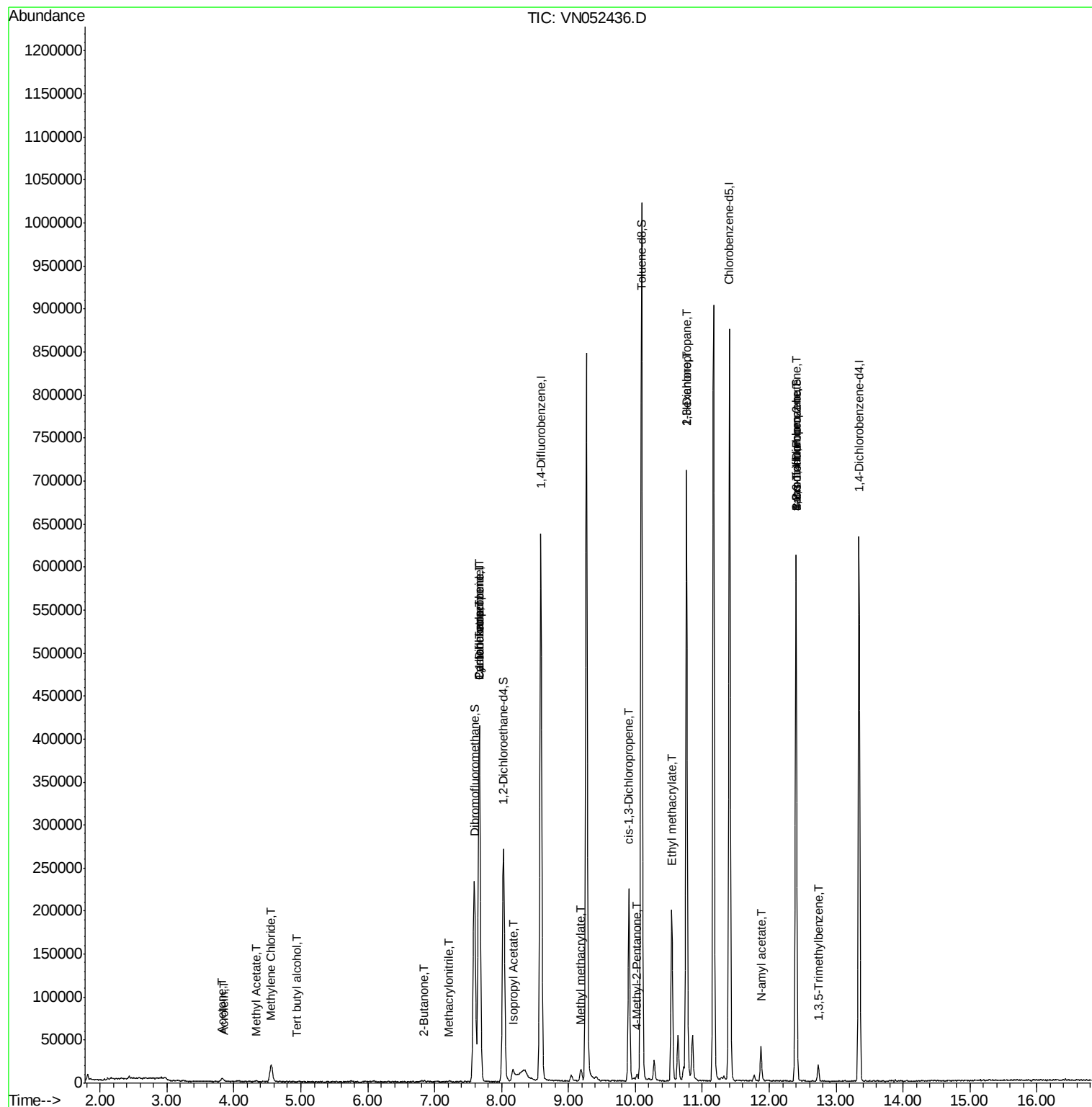
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.94	59	65	0.285	ug/l #	72
13) Acrolein	3.86	56	60	21.930	ug/l #	76
16) Acetone	3.82	43	6135	5.167	ug/l	93
18) Methyl Acetate	4.33	43	1026	0.737	ug/l #	86
20) Methylene Chloride	4.55	84	11169	2.425	ug/l	97
25) 2-Butanone	6.84	43	491	0.294	ug/l #	52
31) Cyclohexane	7.67	56	10154	0.499	ug/l #	40
36) 1,1-Dichloropropene	7.67	75	28855	5.649	ug/l #	50
38) Carbon Tetrachloride	7.67	117	33204	7.075	ug/l #	16
41) Methacrylonitrile	7.20	41	320	3.839	ug/l #	100
43) Isopropyl Acetate	8.17	43	20016	2.798	ug/l #	93
48) Methyl methacrylate	9.18	41	5705	1.572	ug/l #	16
51) 4-Methyl-2-Pentanone	10.02	43	5936	1.648	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	33554	5.932	ug/l #	76
56) Ethyl methacrylate	10.54	69	843	0.203	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6348	1.132	ug/l #	43
59) 2-Hexanone	10.76	43	122380	49.409	ug/l #	54
71) Bromoform	12.40	173	753	0.407	ug/l #	1
74) N-amyl acetate	11.88	43	13931	3.289	ug/l #	59
76) 1,2,3-Trichloropropane	12.40	75	112391	44.781	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8787	0.929	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	112391	145.243	ug/l #	5

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

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Quant Title : SW846 8260
QLast Update : Thu Nov 15 03:02:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052436.D

Acq: 21 Nov 2018 14:17

Instrument :

MSVOA_N

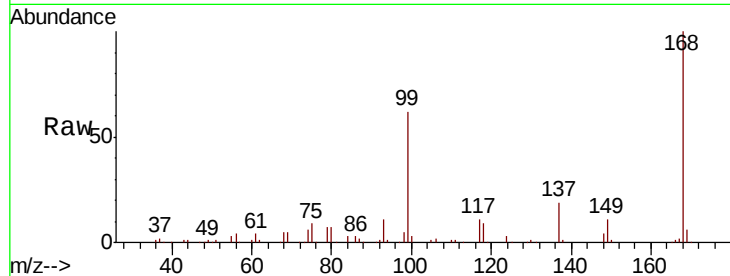
ClientSampled :

Tot Ion:168 Resp: 305348

Ion Ratio Lower Upper

168 100

99 61.9 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052307.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052307.D (-1814) (-)

7.67

150000

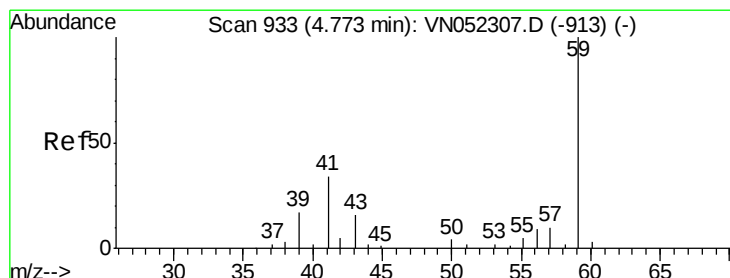
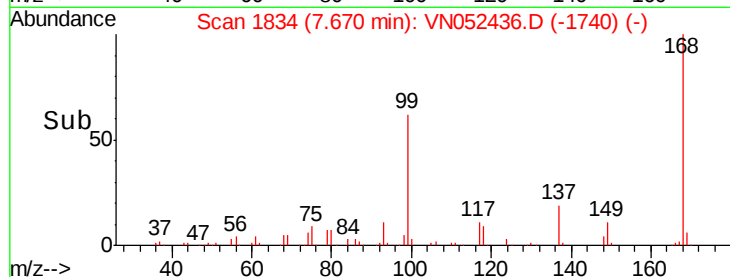
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.285 ug/l

RT: 4.94 min Scan# 984

Delta R.T. 0.16 min

Lab File: VN052436.D

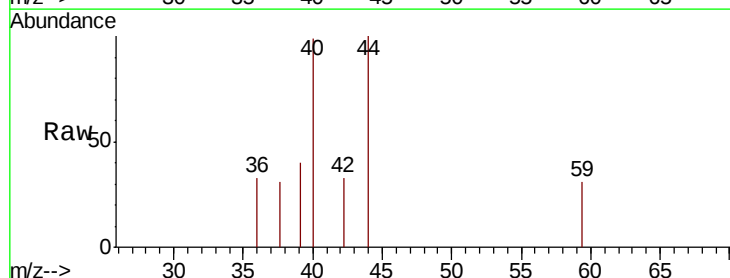
Acq: 21 Nov 2018 14:17

Tgt Ion: 59 Resp: 65

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN052307.D (-913) (-)

Ion 57.00 (56.70 to 57.70): VN052307.D (-913) (-)

4.94

200

150

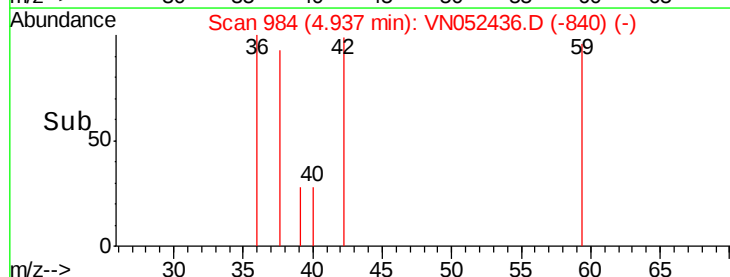
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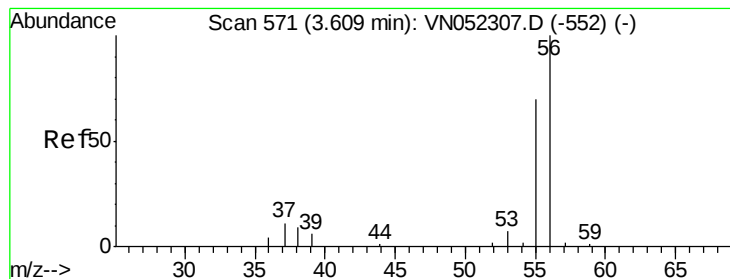
50

0

4.92 4.93 4.94

Time-->





#13

Acrolein

Concen: 21.930 ug/l

RT: 3.86 min Scan# 649

Delta R.T. 0.25 min

Lab File: VN052436.D

Acq: 21 Nov 2018 14:17

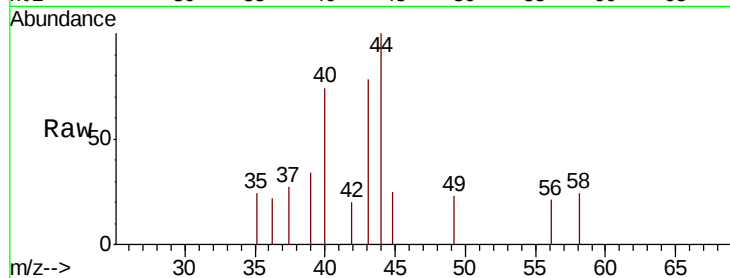
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 60

Ion Ratio Lower Upper

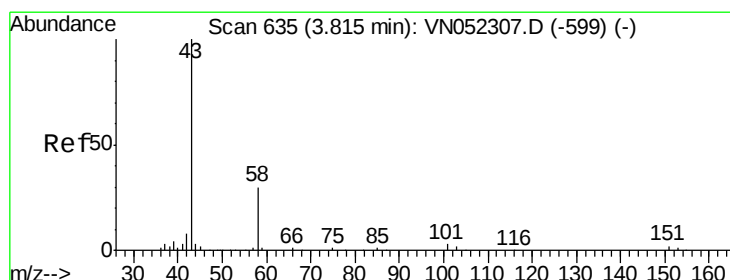
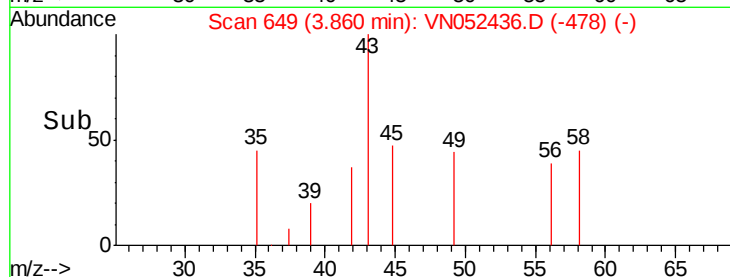
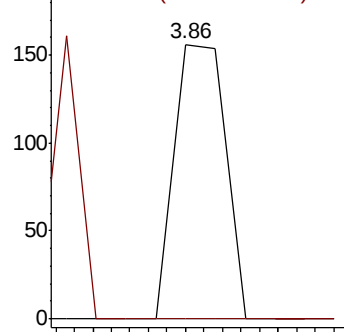
56 100

55 51.7 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 5.167 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052436.D

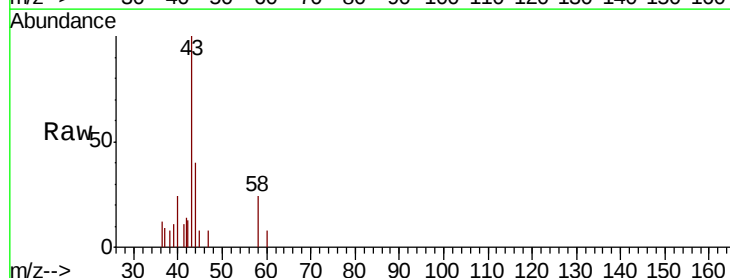
Acq: 21 Nov 2018 14:17

Tgt Ion: 43 Resp: 6135

Ion Ratio Lower Upper

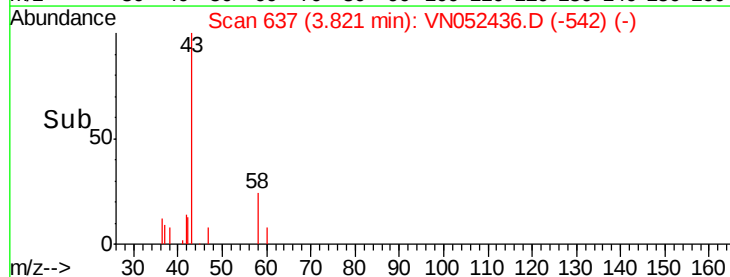
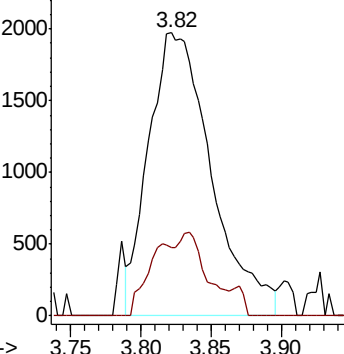
43 100

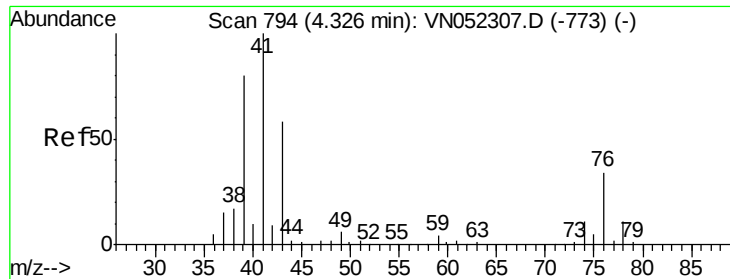
58 26.6 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

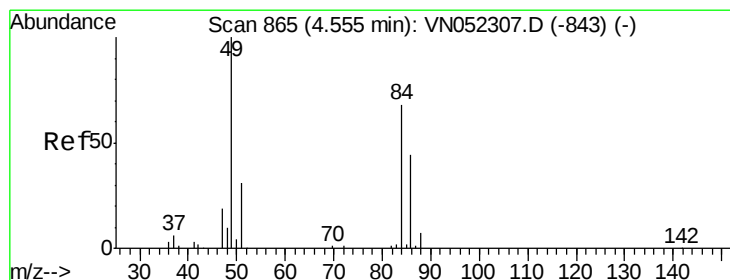
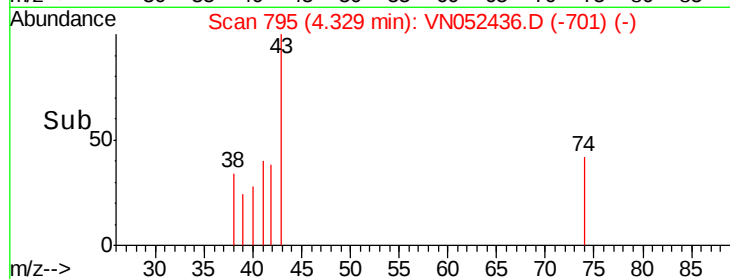
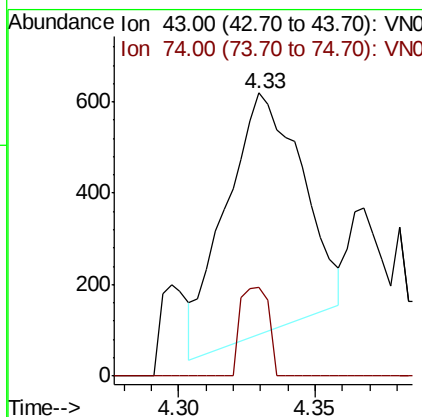
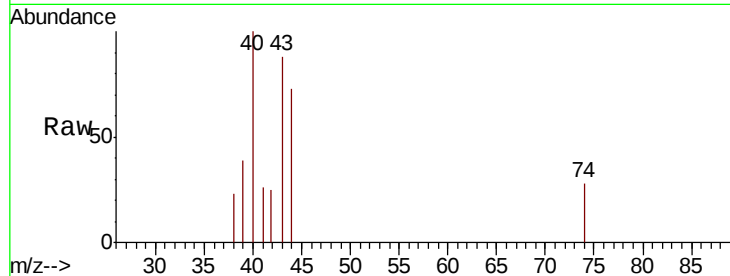




#18
Methyl Acetate
Concen: 0.737 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052436.D
Acq: 21 Nov 2018 14:17

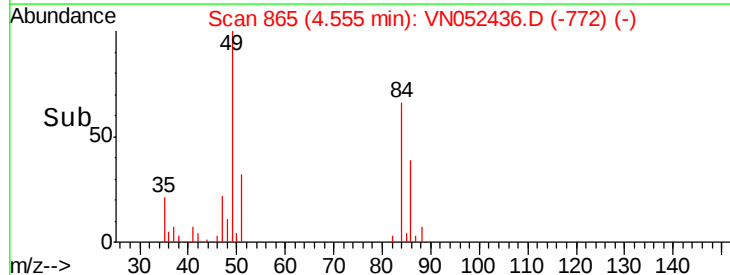
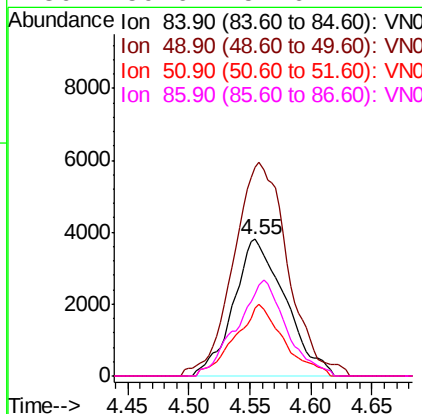
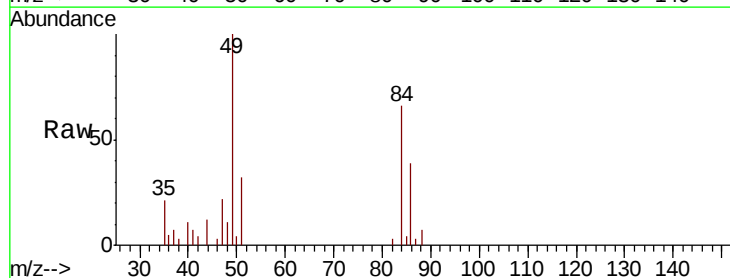
Instrument :
MSVOA_N
ClientSampled :

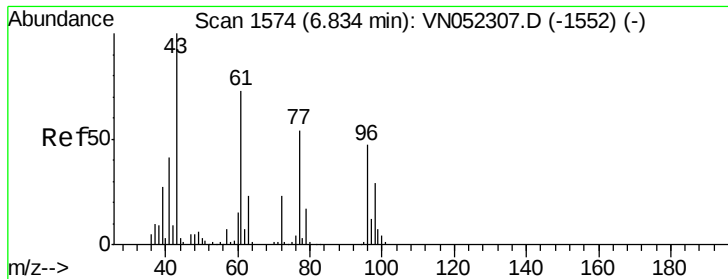
Tot Ion: 43 Resp: 1026
Ion Ratio Lower Upper
43 100
74 13.6 15.9 23.9#



#20
Methylene Chloride
Concen: 2.425 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052436.D
Acq: 21 Nov 2018 14:17

Tgt Ion: 84 Resp: 11169
Ion Ratio Lower Upper
84 100
49 146.9 118.2 177.2
51 49.3 36.1 54.1
86 59.6 51.6 77.4

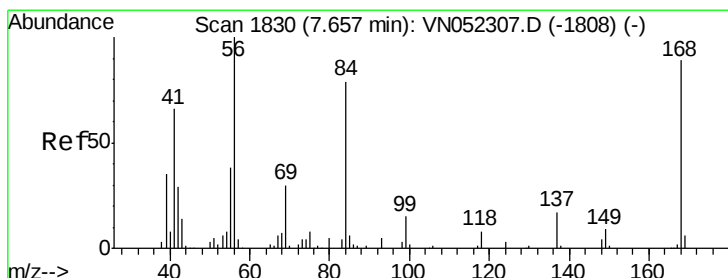
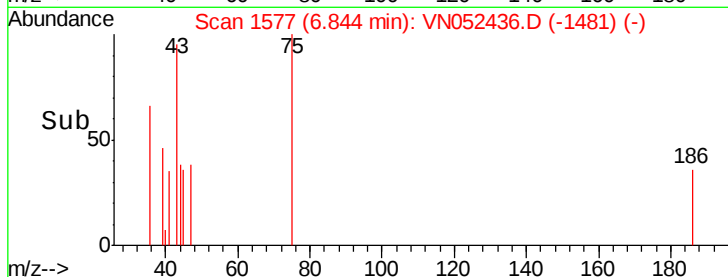
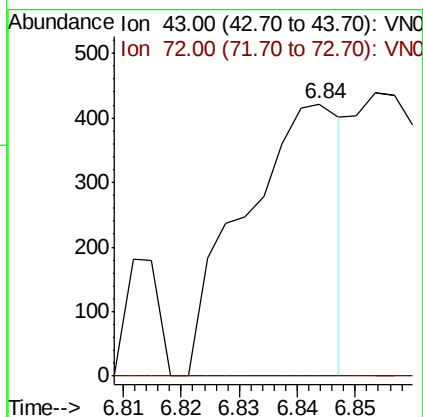
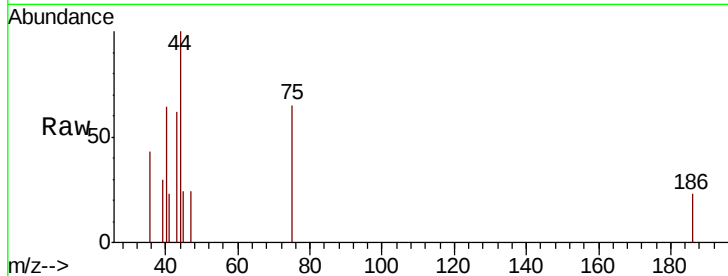




#25
2-Butanone
Concen: 0.294 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052436.D
Acq: 21 Nov 2018 14:17

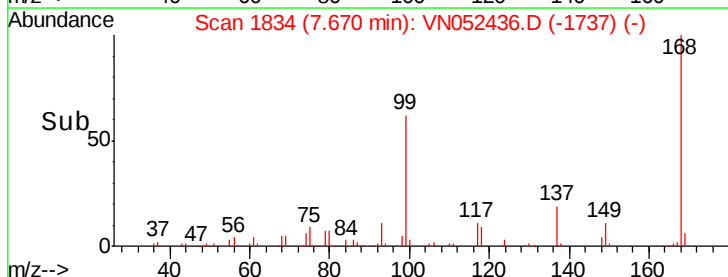
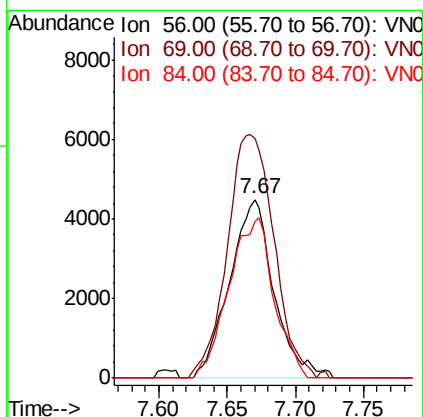
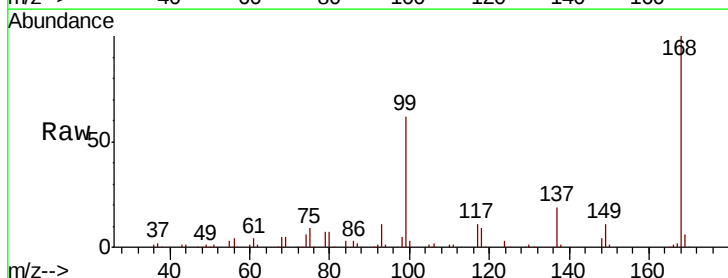
Instrument :
MSVOA_N
ClientSampled :

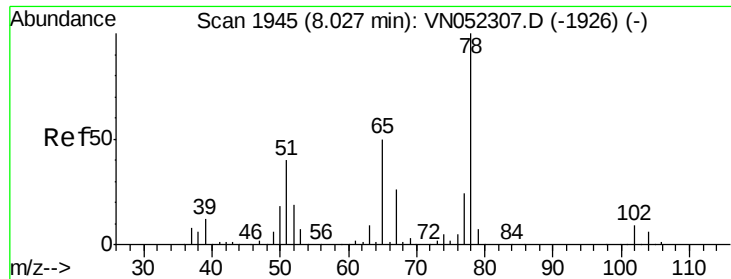
Tot Ion: 43 Resp: 491
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#



#31
Cyclohexane
Concen: 0.499 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.01 min
Lab File: VN052436.D
Acq: 21 Nov 2018 14:17

Tgt Ion: 56 Resp: 10154
Ion Ratio Lower Upper
56 100
69 134.1 23.8 35.8#
84 87.5 63.0 94.6

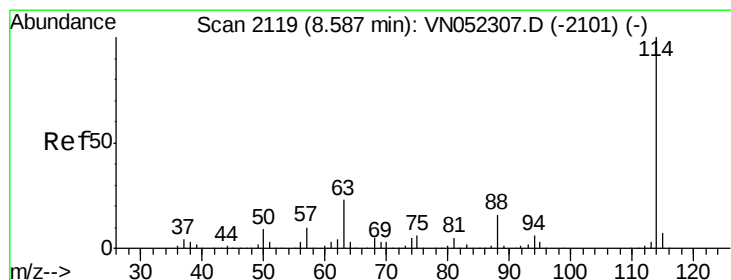
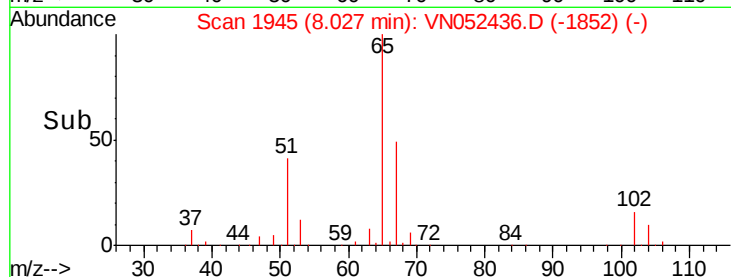
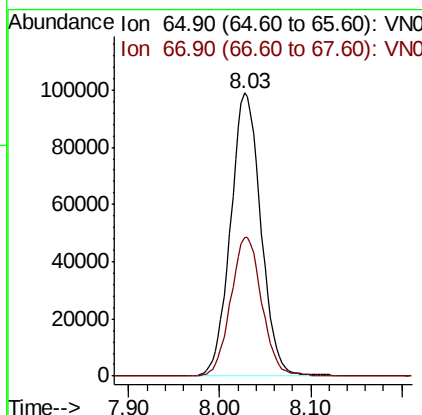
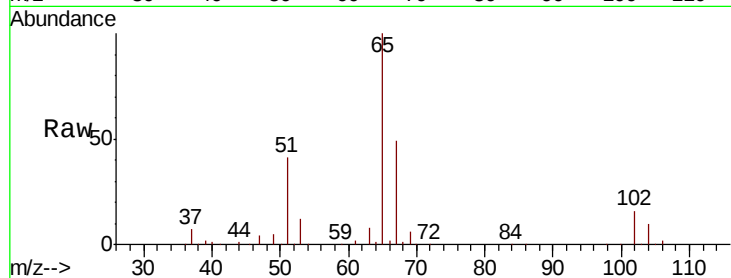




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052436.D
 Acq: 21 Nov 2018 14:17

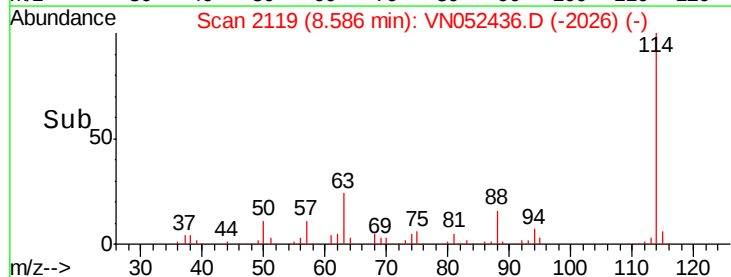
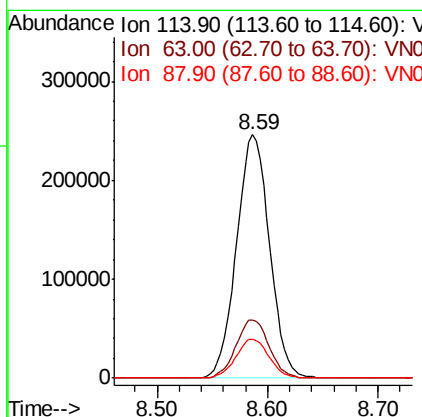
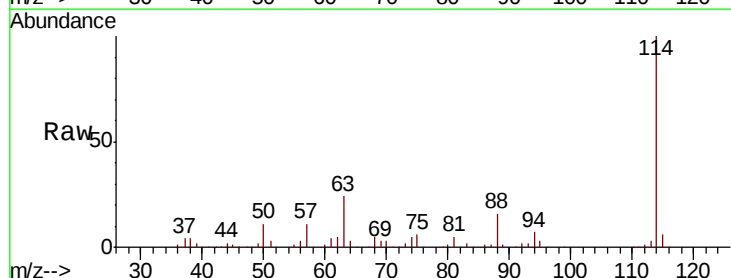
Instrument :
 MSVOA_N
 ClientSampled :

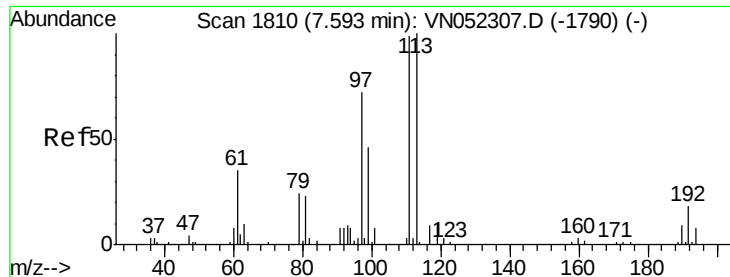
Tot Ion: 65 Resp: 229716
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052436.D
 Acq: 21 Nov 2018 14:17

Tgt Ion: 114 Resp: 509655
 Ion Ratio Lower Upper
 114 100
 63 23.9 0.0 45.4
 88 16.2 0.0 31.2

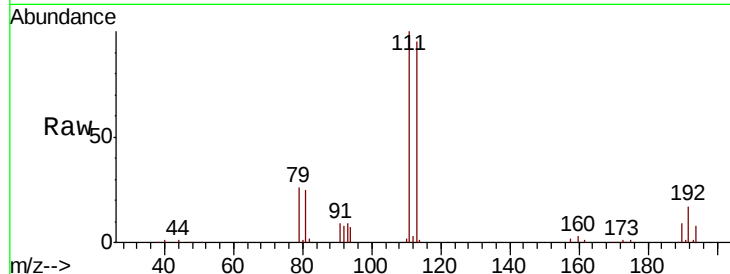




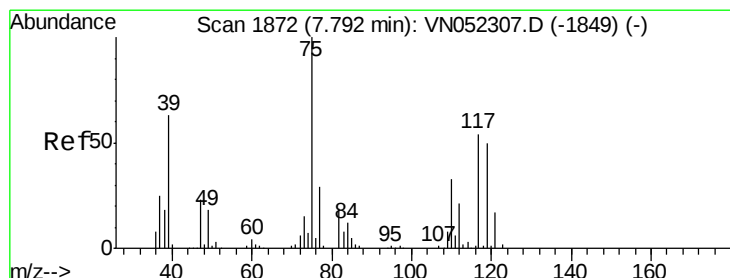
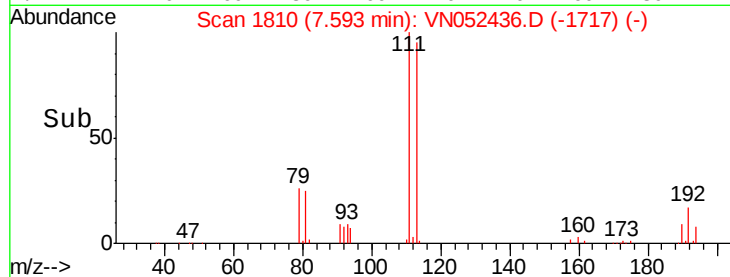
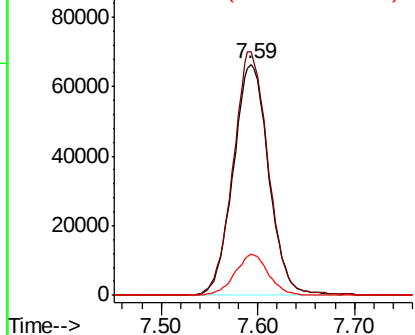
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052436.D
 Acq: 21 Nov 2018 14:17

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 169384
 Ion Ratio Lower Upper
 113 100
 111 104.3 81.0 121.6
 192 16.8 13.8 20.6

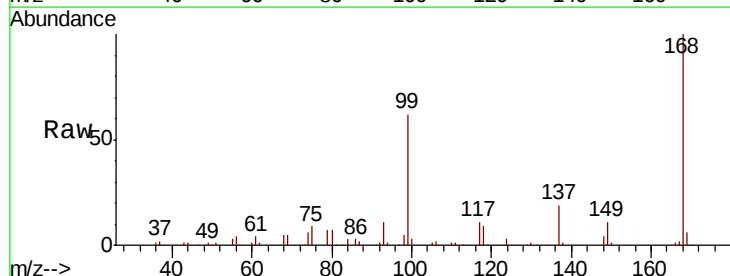


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

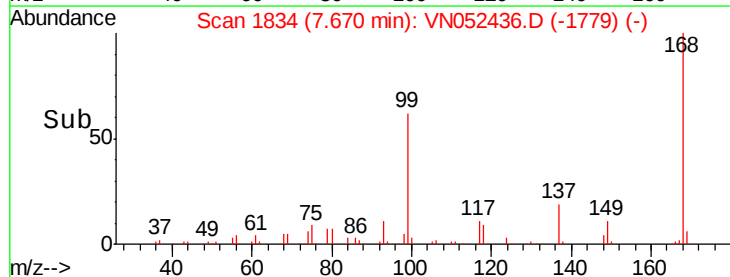
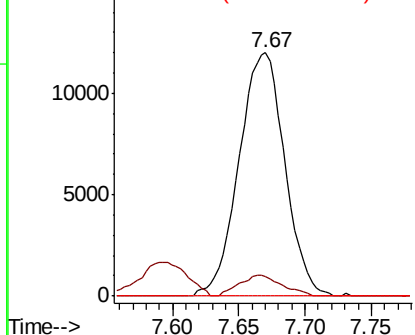


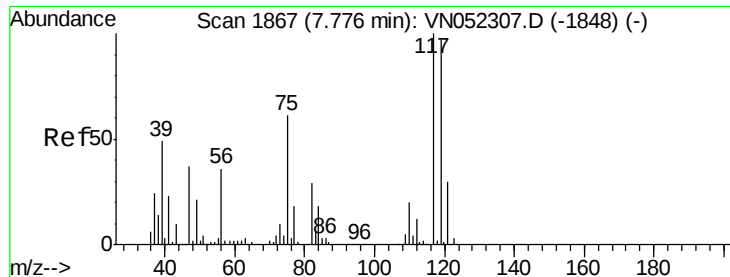
#36
 1,1-Dichloropropene
 Concen: 5.649 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN052436.D
 Acq: 21 Nov 2018 14:17

Tgt Ion: 75 Resp: 28855
 Ion Ratio Lower Upper
 75 100
 110 7.9 16.5 49.5#
 77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 7.075 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052436.D

Acq: 21 Nov 2018 14:17

Instrument :

MSVOA_N

ClientSampleId :

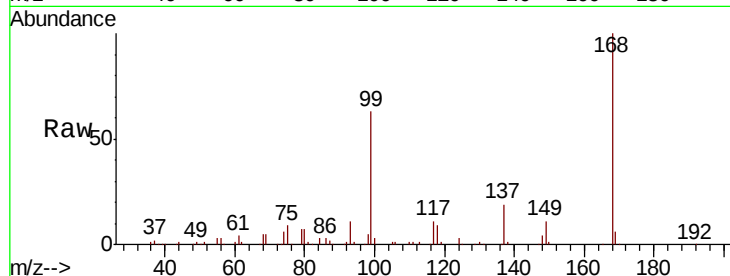
Tot Ion:117 Resp: 33204

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

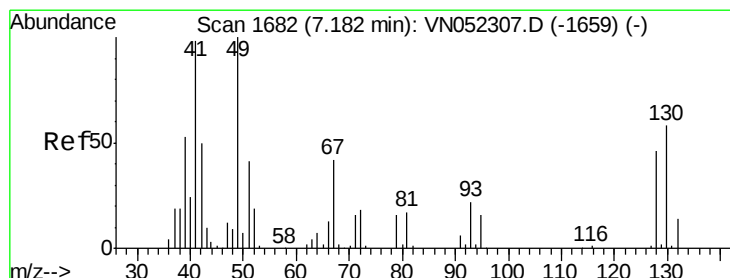
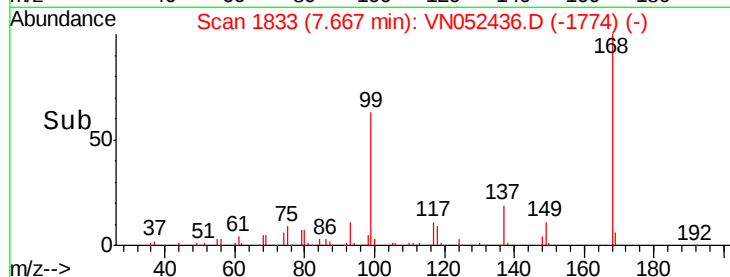
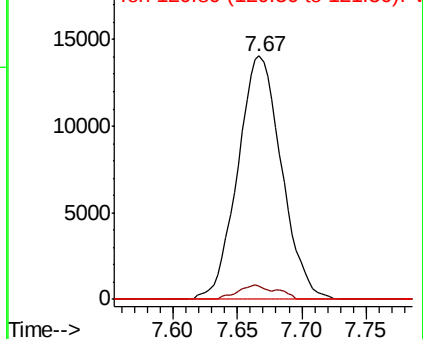
121 0.0 24.0 36.0#



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



#41

Methacrylonitrile

Concen: 3.839 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.03 min

Lab File: VN052436.D

Acq: 21 Nov 2018 14:17

Tgt Ion: 41 Resp: 320

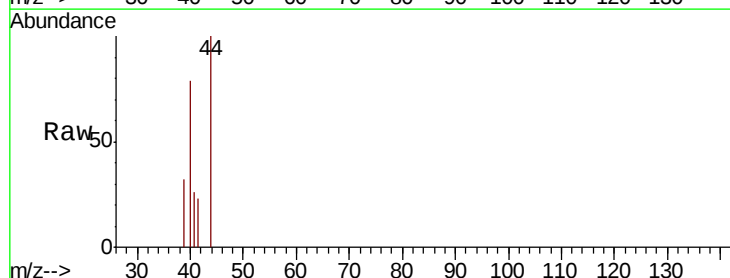
Ion Ratio Lower Upper

41 100

39 30.0 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

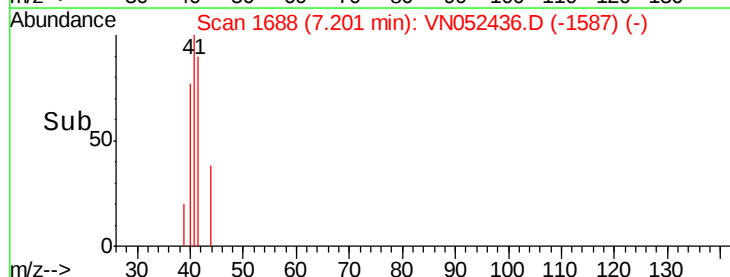
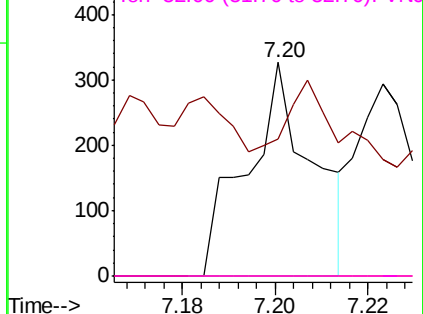


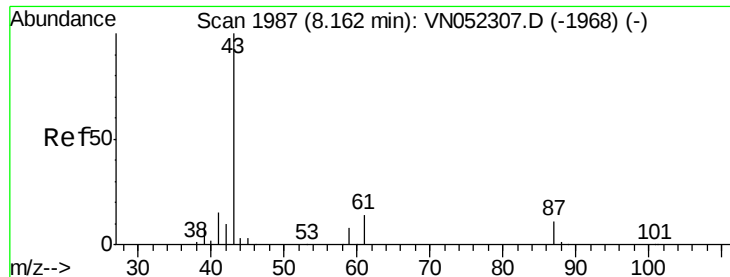
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





#43

Isopropyl Acetate

Concen: 2.798 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052436.D

Acq: 21 Nov 2018 14:17

Instrument :

MSVOA_N

ClientSampleId :

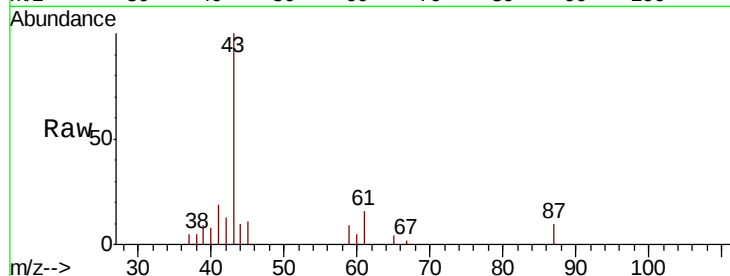
Tot Ion: 43 Resp: 20016

Ion Ratio Lower Upper

43 100

61 12.3 12.0 18.0

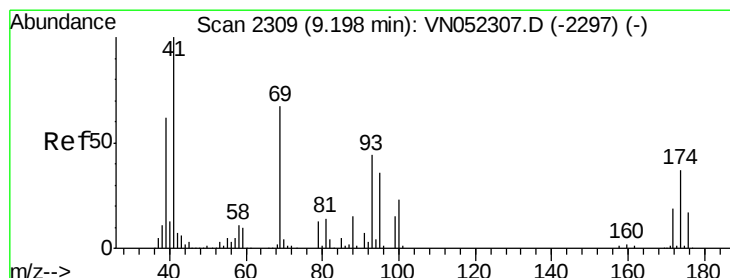
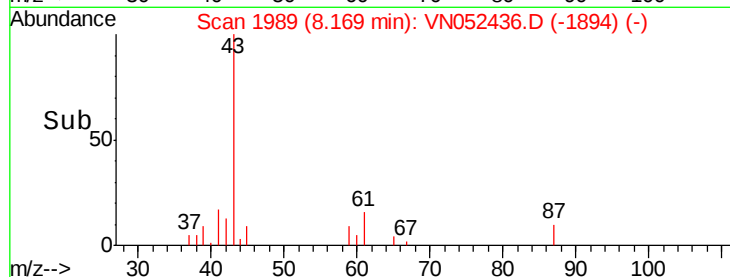
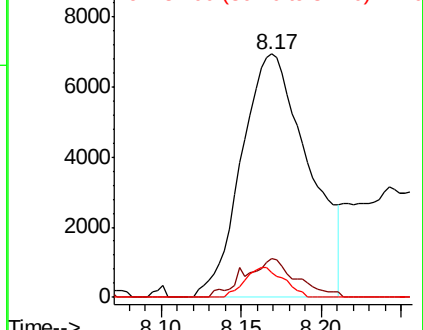
87 7.0 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

Ion 87.00 (86.70 to 87.70): VNC



#48

Methyl methacrylate

Concen: 1.572 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052436.D

Acq: 21 Nov 2018 14:17

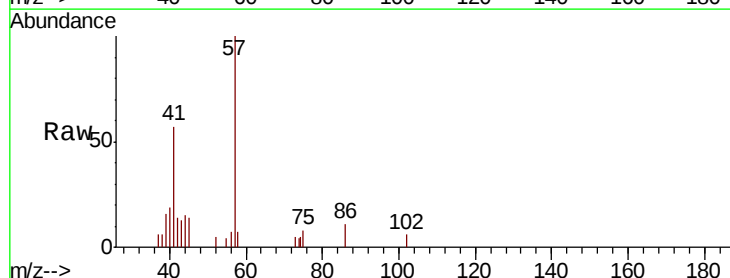
Tgt Ion: 41 Resp: 5705

Ion Ratio Lower Upper

41 100

69 0.0 57.1 85.7#

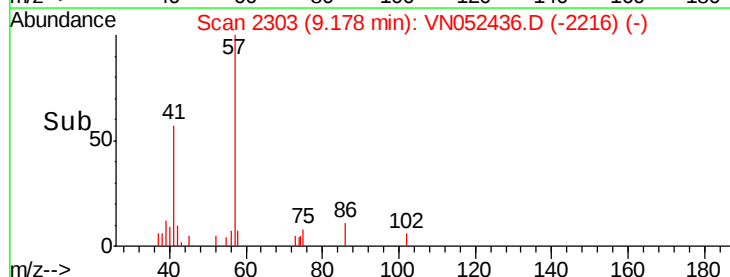
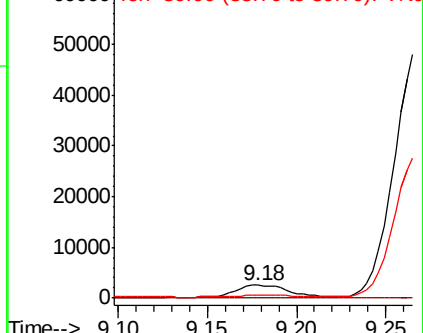
39 0.0 52.5 78.7#

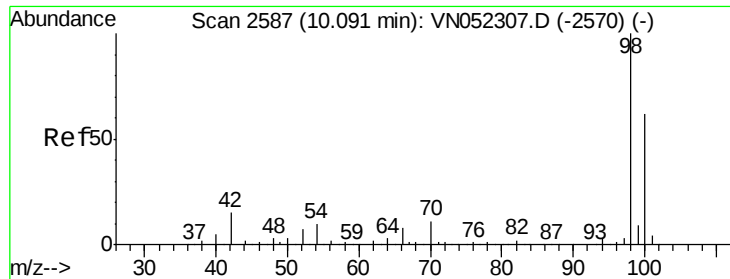


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052436.D

Acq: 21 Nov 2018 14:17

Instrument :

MSVOA_N

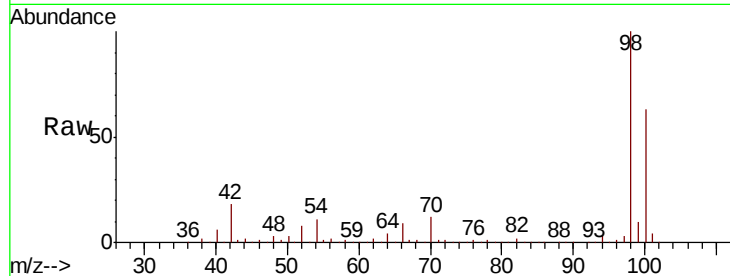
ClientSampled :

Tot Ion: 98 Resp: 650587

Ion Ratio Lower Upper

98 100

100 62.7 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

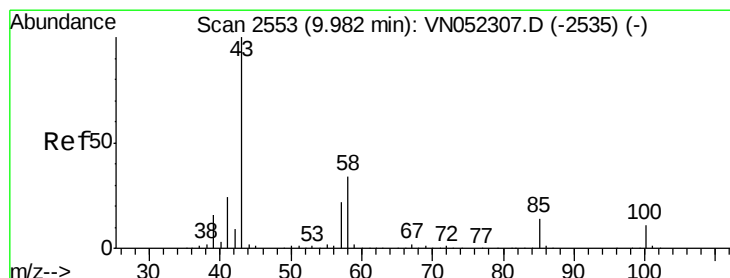
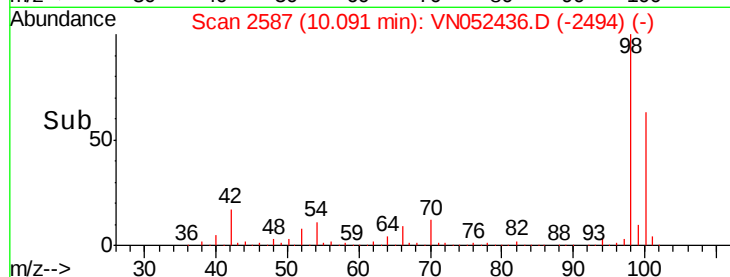
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.648 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052436.D

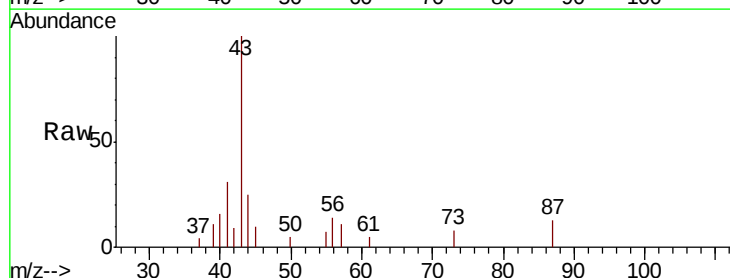
Acq: 21 Nov 2018 14:17

Tgt Ion: 43 Resp: 5936

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.02

4000

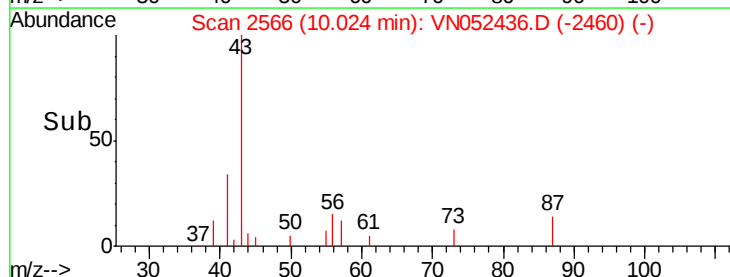
3000

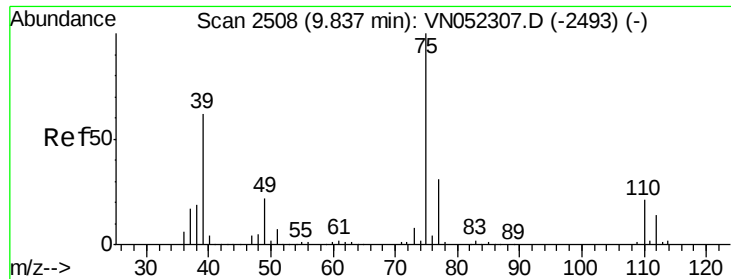
2000

1000

0

Time-->



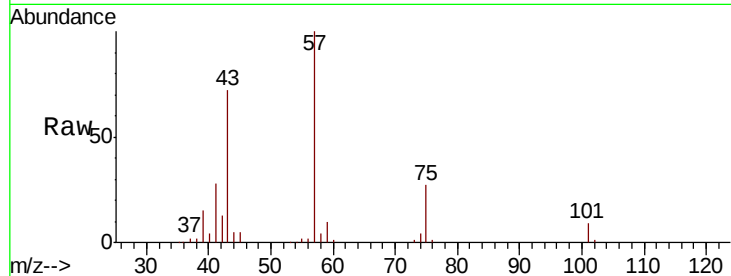


#54

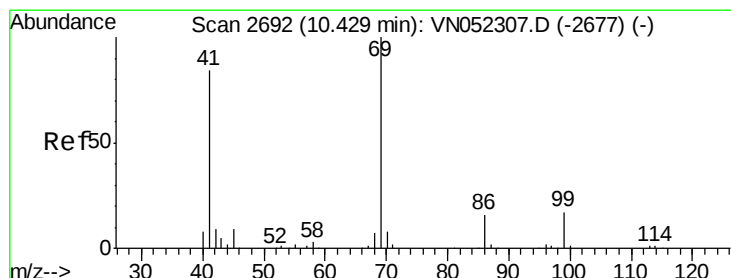
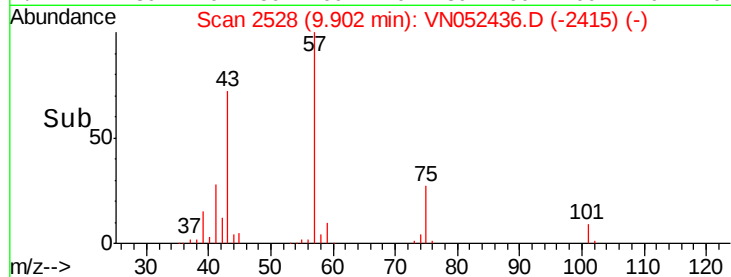
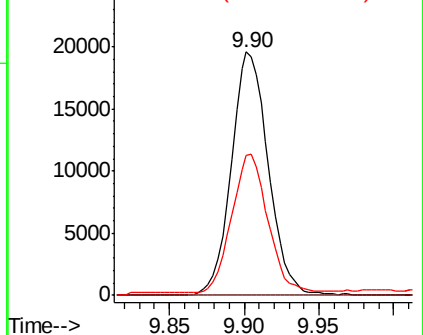
cis-1,3-Dichloropropene
 Concen: 5.932 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.06 min
 Lab File: VN052436.D
 Acq: 21 Nov 2018 14:17

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 33554
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 56.5 49.9 74.9



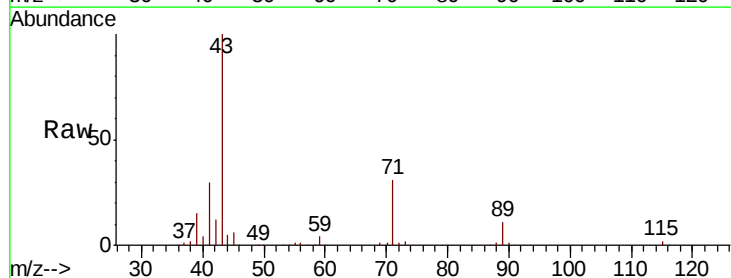
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



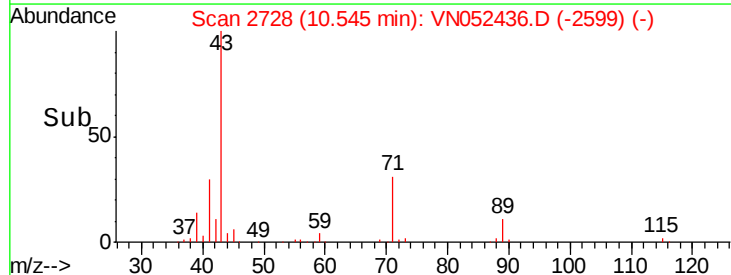
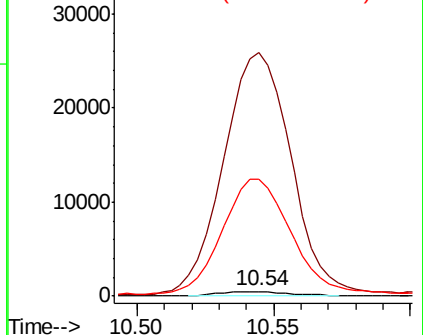
#56

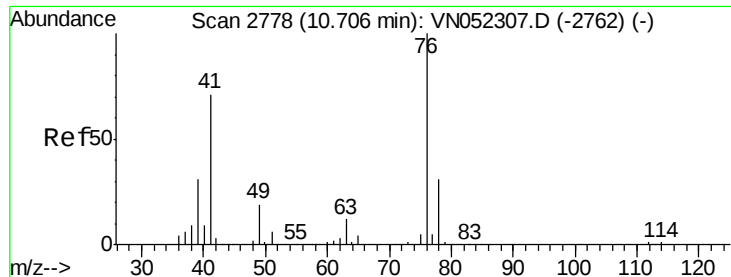
Ethyl methacrylate
 Concen: 0.203 ug/l
 RT: 10.54 min Scan# 2728
 Delta R.T. 0.12 min
 Lab File: VN052436.D
 Acq: 21 Nov 2018 14:17

Tgt Ion: 69 Resp: 843
 Ion Ratio Lower Upper
 69 100
 41 5278.2 64.8 97.2#
 39 2526.0 41.0 61.6#



Abundance Ion 69.00 (68.70 to 69.70): VNO
 Ion 41.00 (40.70 to 41.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO





#57

1,3-Dichloropropane

Concen: 1.132 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN052436.D

Acq: 21 Nov 2018 14:17

Instrument :

MSVOA_N

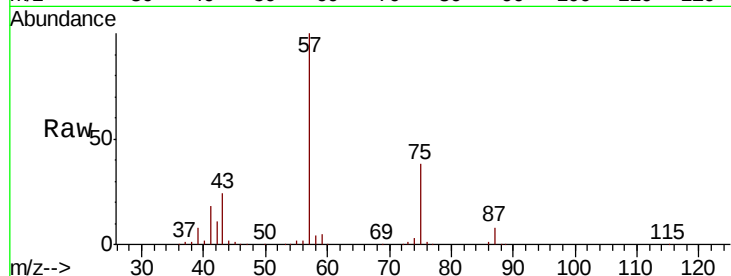
ClientSampleId :

Tot Ion: 76 Resp: 6348

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.76

4000

3000

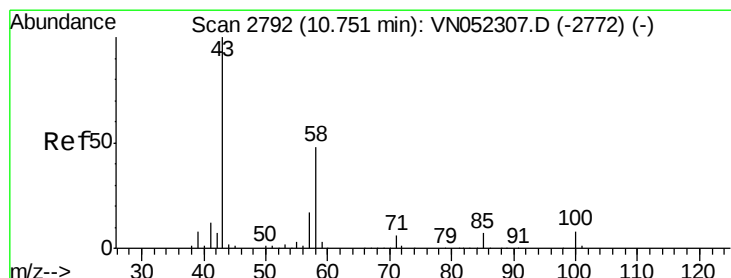
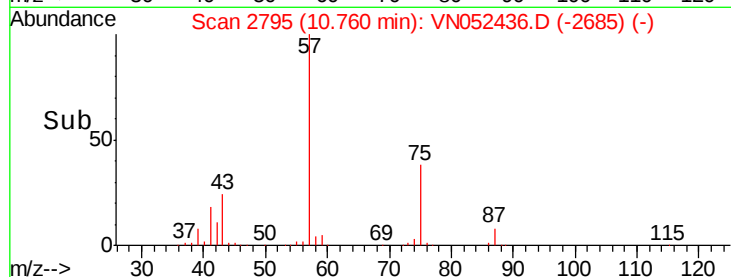
2000

1000

0

Time-->

10.70 10.75 10.80



#59

2-Hexanone

Concen: 49.409 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052436.D

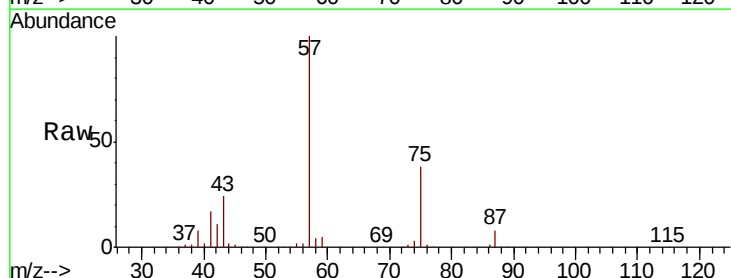
Acq: 21 Nov 2018 14:17

Tgt Ion: 43 Resp: 122380

Ion Ratio Lower Upper

43 100

58 16.1 23.5 70.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

80000

60000

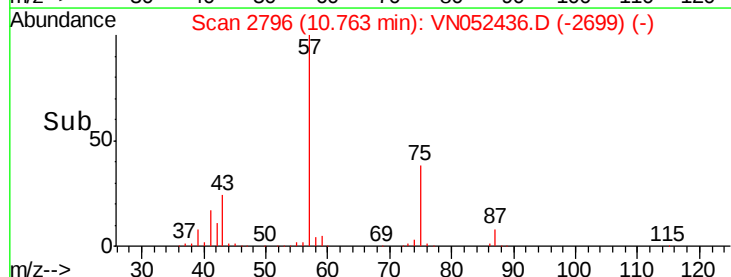
40000

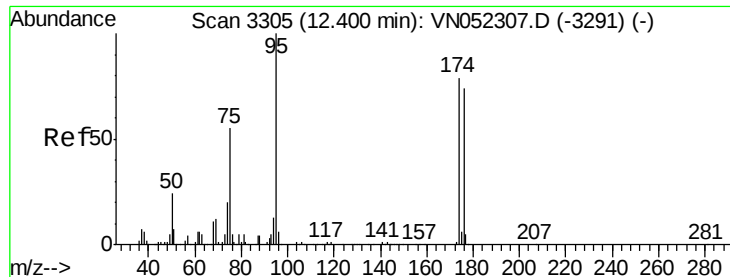
20000

0

Time-->

10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052436.D

Acq: 21 Nov 2018 14:17

Instrument :

MSVOA_N

ClientSampled :

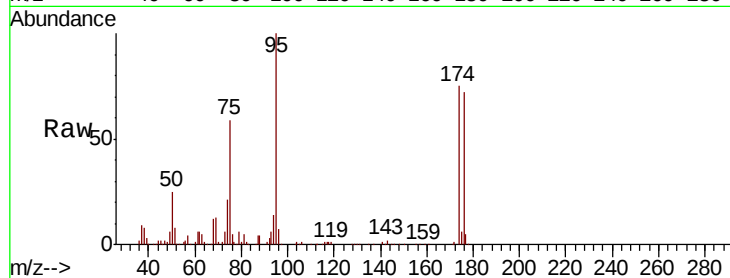
Tot Ion: 95 Resp: 192461

Ion Ratio Lower Upper

95 100

174 73.3 0.0 156.0

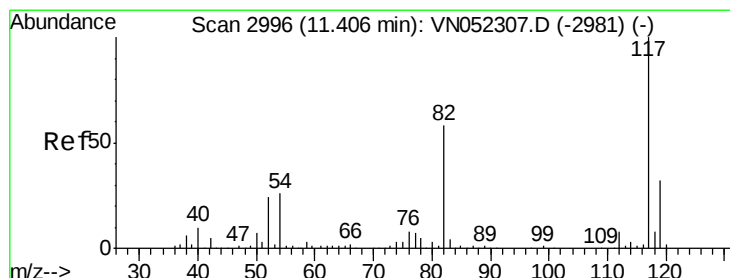
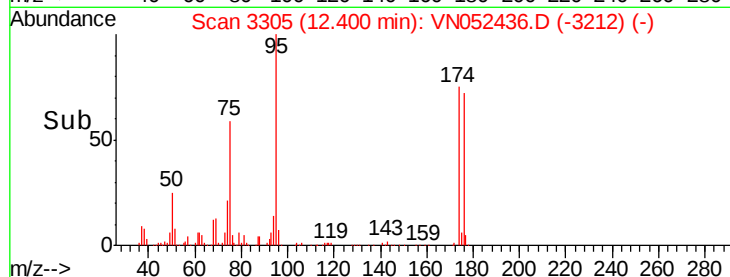
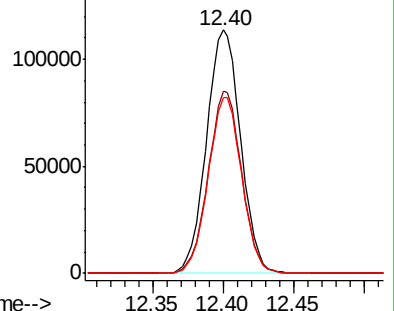
176 71.0 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052436.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052436.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052436.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052436.D

Acq: 21 Nov 2018 14:17

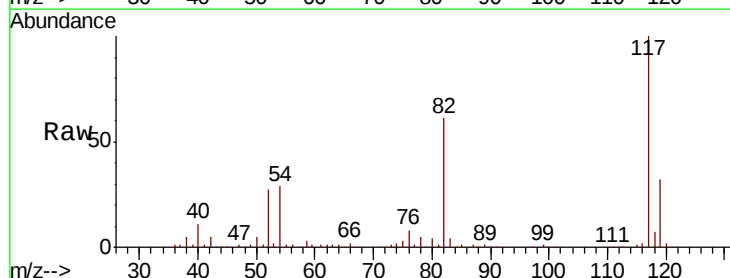
Tgt Ion: 117 Resp: 434954

Ion Ratio Lower Upper

117 100

82 60.8 46.5 69.7

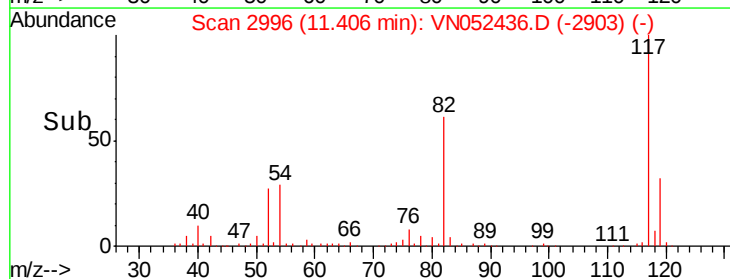
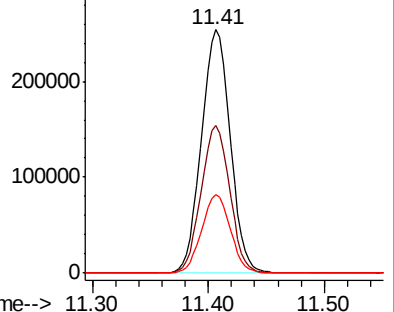
119 32.4 25.7 38.5

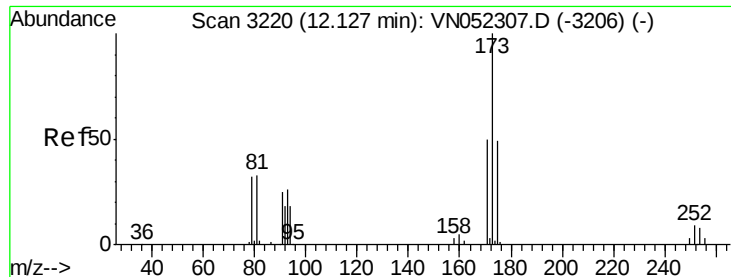


Abundance Ion 116.90 (116.60 to 117.60): VN052436.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052436.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052436.D (-2903) (-)





#71

Bromoform

Concen: 0.407 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN052436.D

Acq: 21 Nov 2018 14:17

Instrument :

MSVOA_N

ClientSampled :

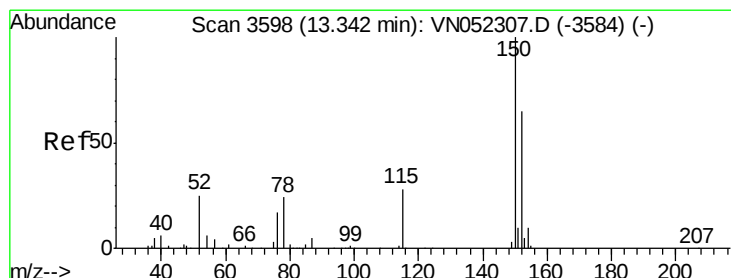
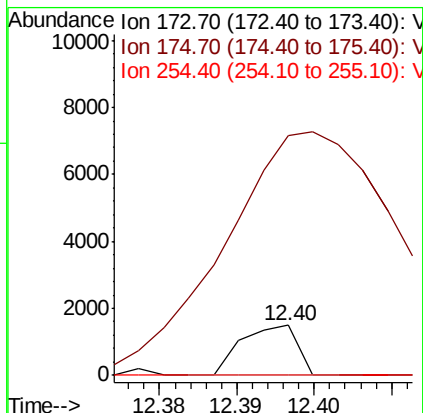
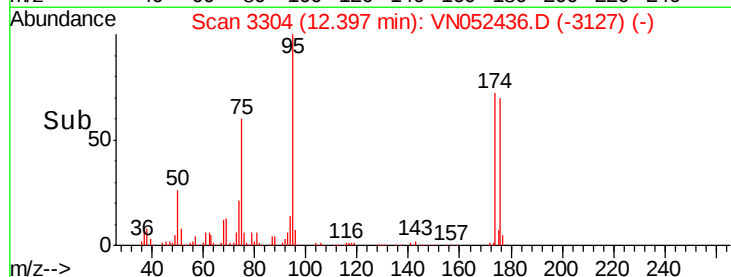
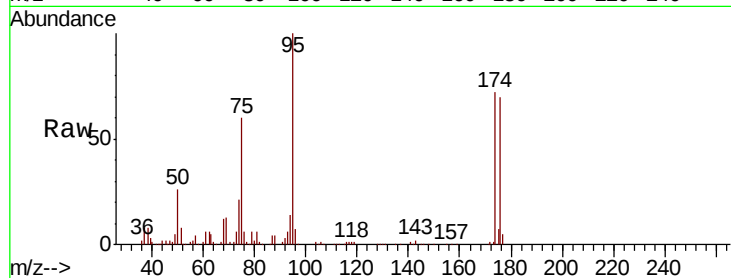
Tot Ion:173 Resp: 753

Ion Ratio Lower Upper

173 100

175 1402.5 25.0 75.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052436.D

Acq: 21 Nov 2018 14:17

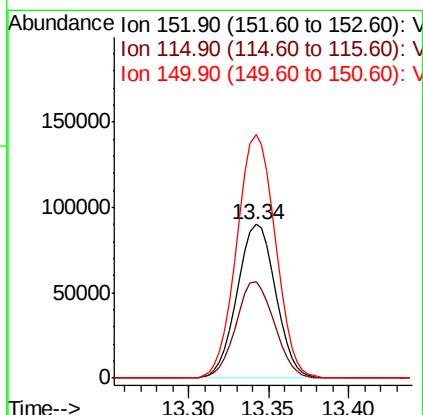
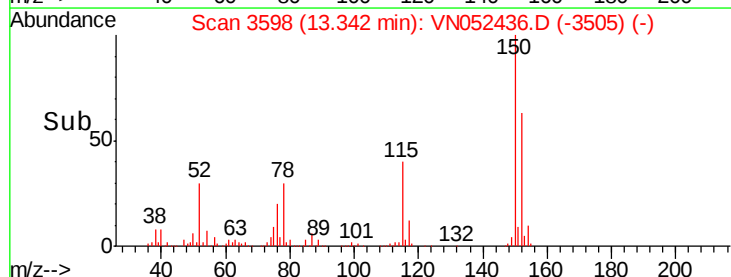
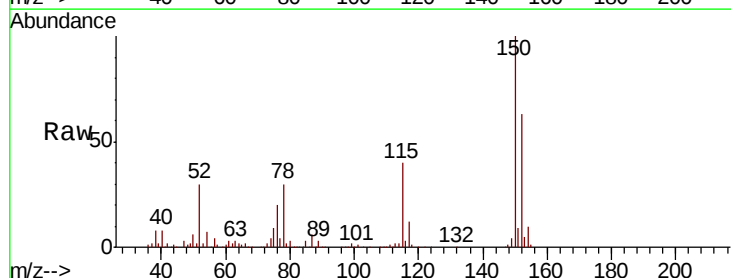
Tgt Ion:152 Resp: 147911

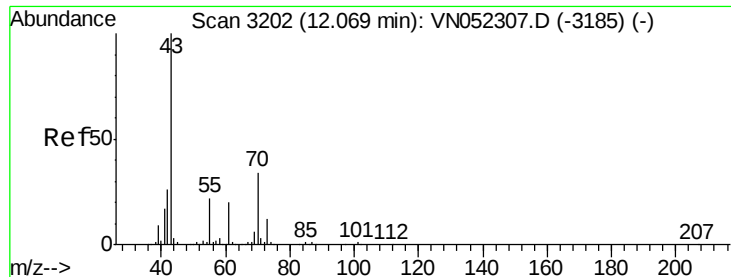
Ion Ratio Lower Upper

152 100

115 62.9 30.3 91.0

150 158.7 0.0 348.2





#74

N-amvl acetate

Concen: 3.289 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052436.D

Acq: 21 Nov 2018 14:17

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 13931

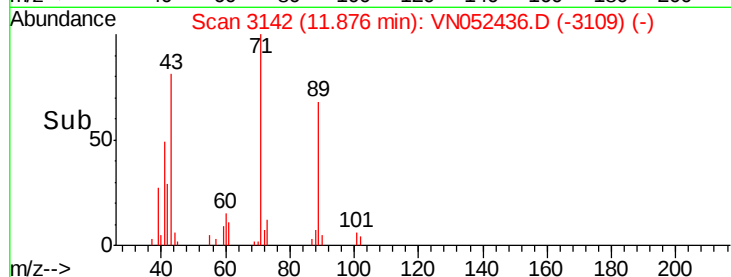
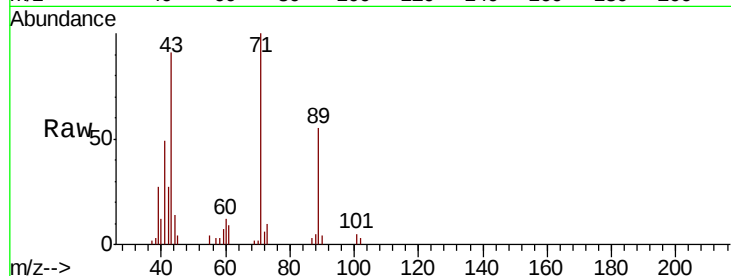
Ion Ratio Lower Upper

43 100

70 1.4 27.1 40.7#

55 5.1 17.4 26.0#

61 9.7 16.1 24.1#

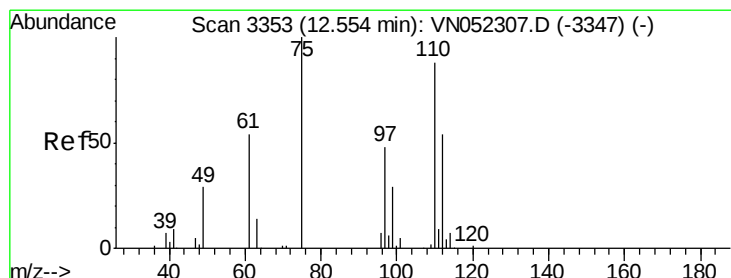
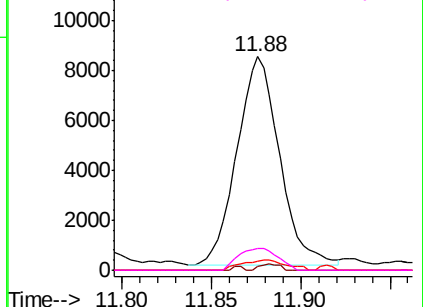


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 44.781 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052436.D

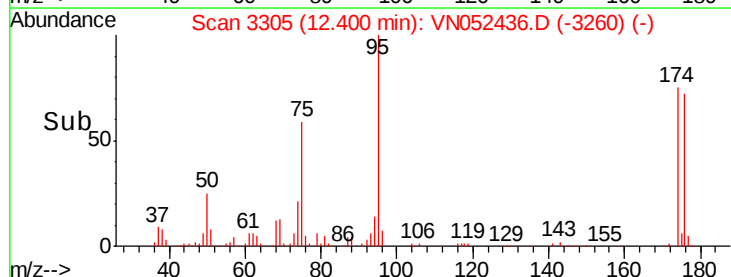
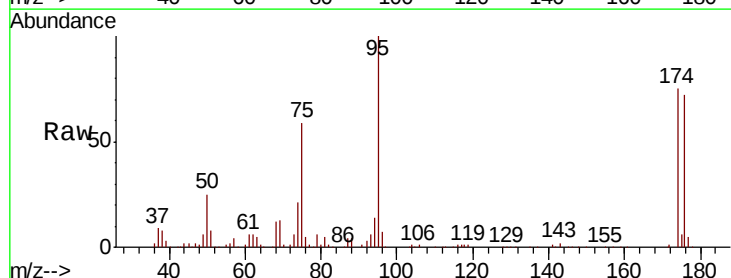
Acq: 21 Nov 2018 14:17

Tgt Ion: 75 Resp: 112391

Ion Ratio Lower Upper

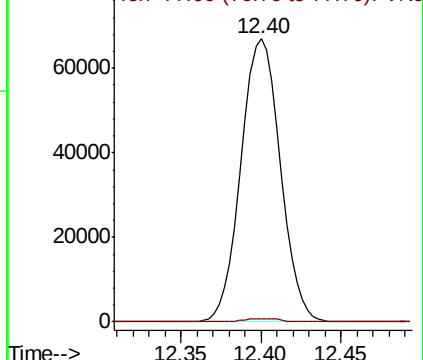
75 100

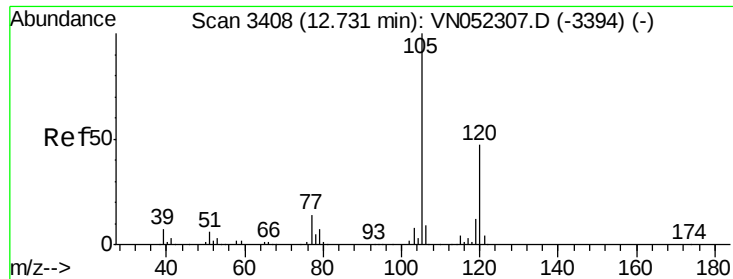
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

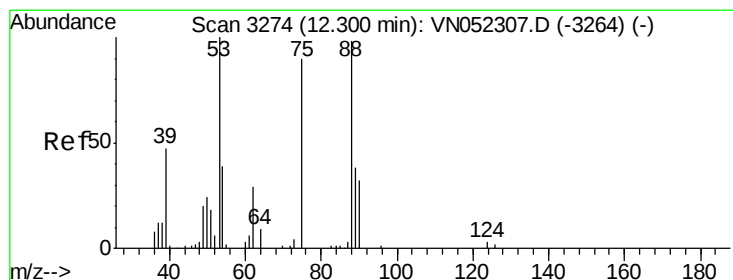
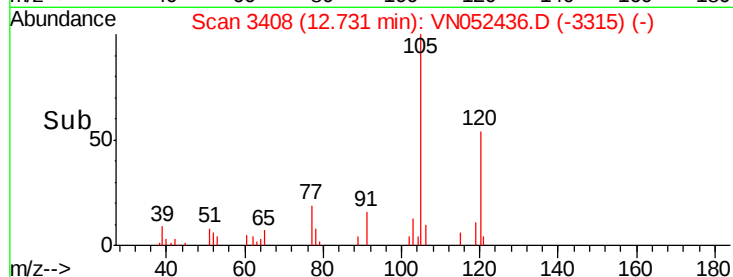
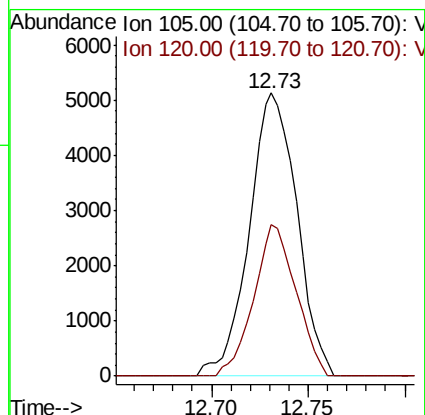
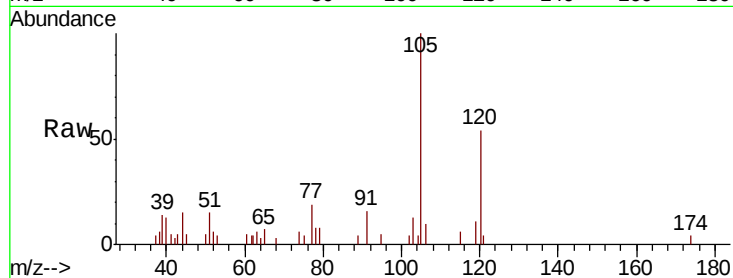




#80
 1,3,5-Trimethylbenzene
 Concen: 0.929 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN052436.D
 Acq: 21 Nov 2018 14:17

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:105 Resp: 8787
 Ion Ratio Lower Upper
 105 100
 120 47.6 23.7 71.1



#81
 trans-1,4-Dichloro-2-butene
 Concen: 145.243 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052436.D
 Acq: 21 Nov 2018 14:17

Tgt Ion: 75 Resp: 112391
 Ion Ratio Lower Upper
 75 100
 53 0.1 90.2 135.2#
 89 0.0 35.4 53.0#

