

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091419\
 Data File : VN058046.D
 Acq On : 14 Sep 2019 2:21
 Operator : JC/SP
 Sample : K4694-36
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T2-4-(0)

Quant Time: Sep 14 03:43:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

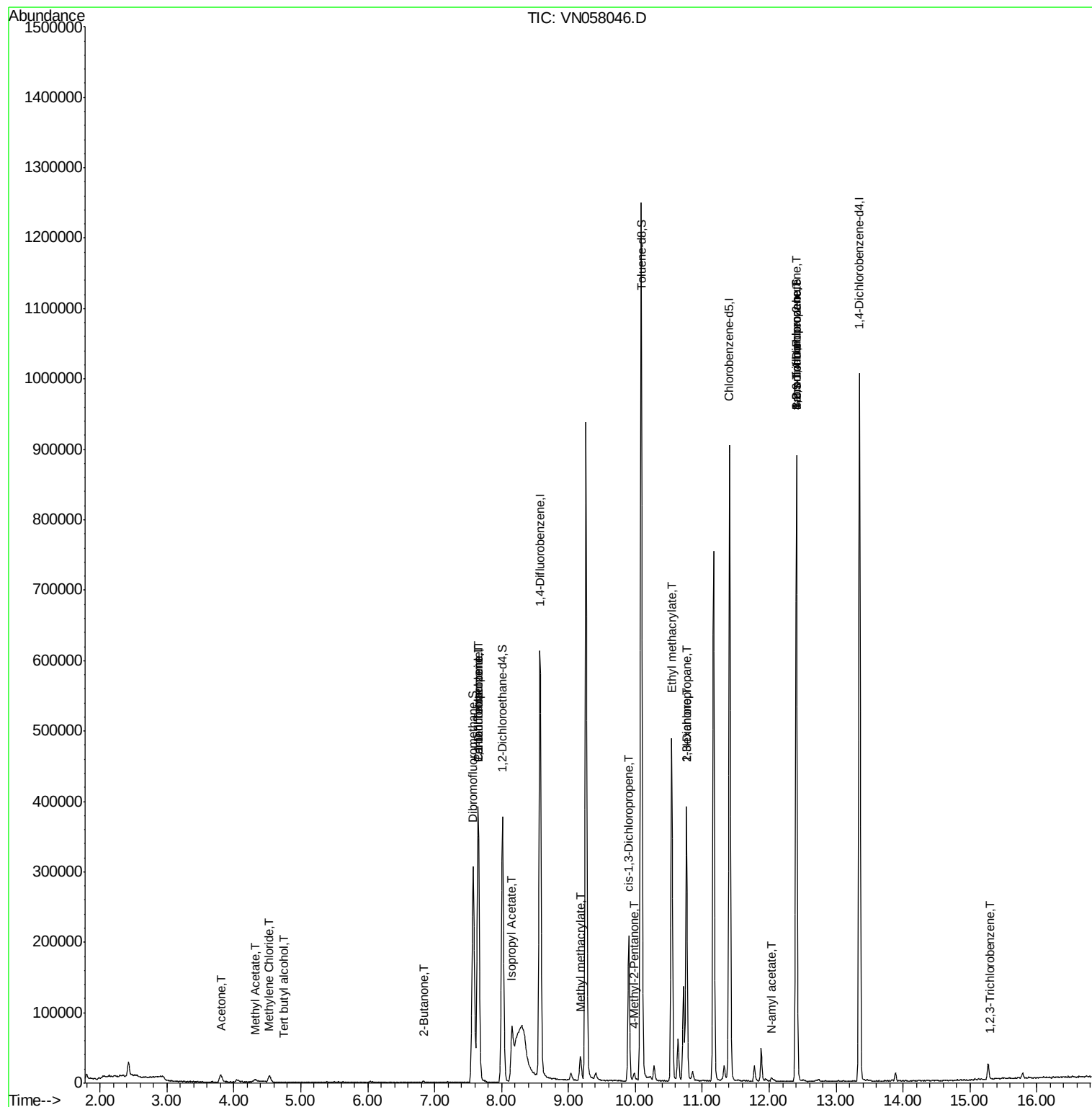
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	306371	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	528864	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	484069	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	249323	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	327919	52.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.68%	
35) Dibromofluoromethane	7.57	113	228606	46.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.66%	
50) Toluene-d8	10.09	98	867842	45.79	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.58%	
62) 4-Bromofluorobenzene	12.40	95	300559	41.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	83.24%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.55	94	62	Below Cal	#	2
11) Tert butyl alcohol	4.75	59	217	0.289	ug/l #	72
16) Acetone	3.80	43	16256	7.991	ug/l	93
18) Methyl Acetate	4.32	43	6676	1.231	ug/l #	70
20) Methylene Chloride	4.53	84	6147	0.365	ug/l #	91
25) 2-Butanone	6.83	43	3496	1.187	ug/l #	49
31) Cyclohexane	7.65	56	8368	Below Cal	#	13
36) 1,1-Dichloropropene	7.65	75	26927	4.390	ug/l #	48
38) Carbon Tetrachloride	7.65	117	31084	5.551	ug/l #	16
43) Isopropyl Acetate	8.16	43	107658	10.102	ug/l #	82
48) Methyl methacrylate	9.18	41	4243	0.785	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	5866	0.930	ug/l	90
54) cis-1,3-Dichloropropene	9.90	75	35527	4.713	ug/l #	69
56) Ethyl methacrylate	10.54	69	1992	0.269	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3877	0.457	ug/l #	43
59) 2-Hexanone	10.76	43	57141	12.089	ug/l #	56
71) Bromoform	12.41	173	779	0.284	ug/l #	1
74) N-amyl acetate	12.03	43	3766	0.447	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	166409	29.505	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166409	103.827	ug/l #	6
95) Naphthalene	15.14	128	620	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.31	180	60	1.010	ug/l #	12

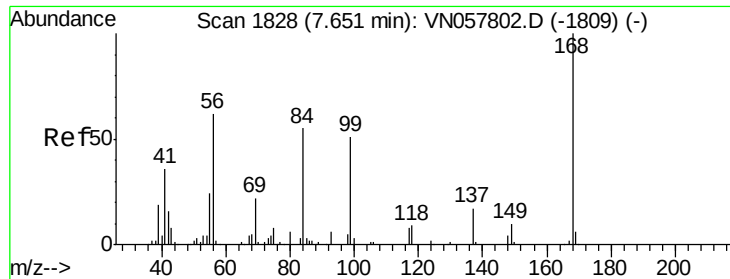
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058046.D

Acq: 14 Sep 2019 2:21

Instrument :

MSVOA_N

ClientSampleId :

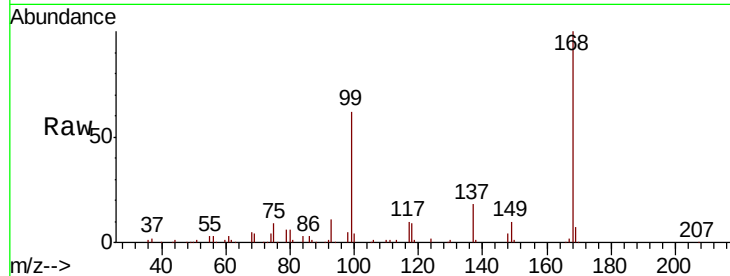
T2-4-(0)

Tgt Ion:168 Resp: 306371

Ion Ratio Lower Upper

168 100

99 61.8 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN058046.D (-1735) (-)

Ion 98.90 (98.60 to 99.60): VN058046.D (-1735) (-)

7.65

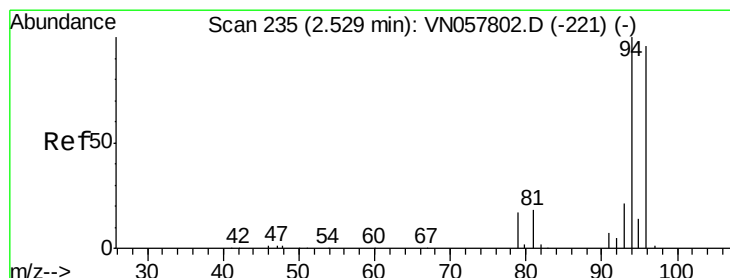
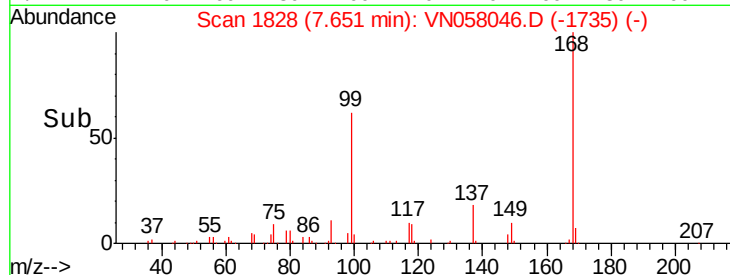
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 240

Delta R.T. 0.02 min

Lab File: VN058046.D

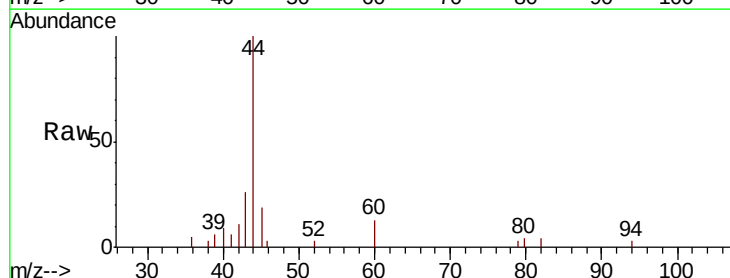
Acq: 14 Sep 2019 2:21

Tgt Ion: 94 Resp: 62

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN058046.D (-141) (-)

Ion 95.90 (95.60 to 96.60): VN058046.D (-141) (-)

2.55

200

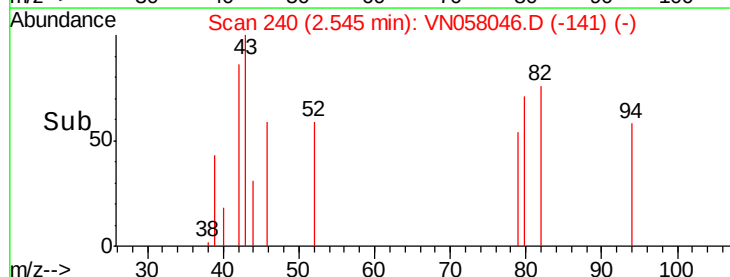
150

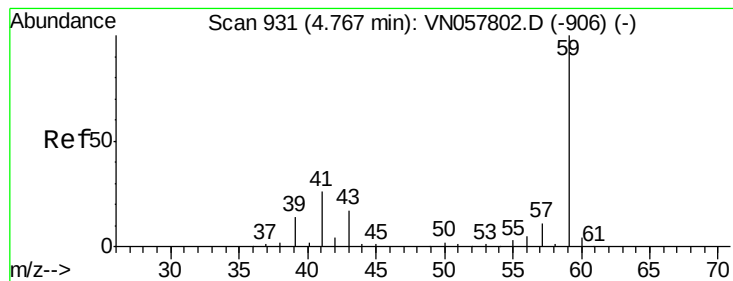
100

50

0

Time-->





#11

Tert butyl alcohol

Concen: 0.289 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.02 min

Lab File: VN058046.D

Acq: 14 Sep 2019 2:21

Instrument :

MSVOA_N

ClientSampled :

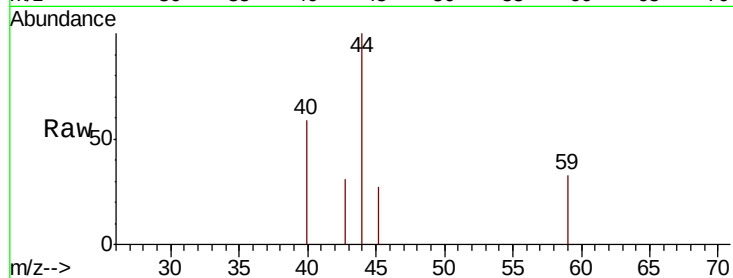
T2-4-(0)

Tgt Ion: 59 Resp: 217

Ion Ratio Lower Upper

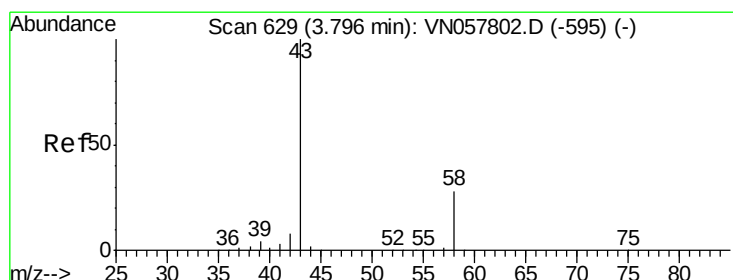
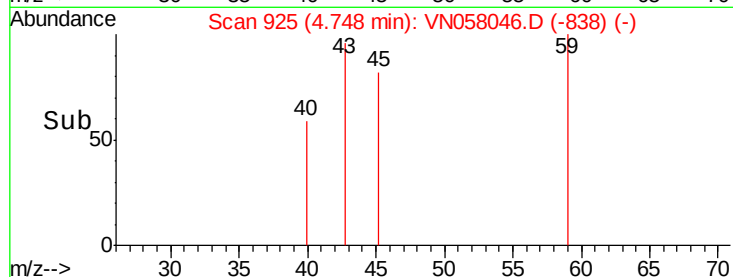
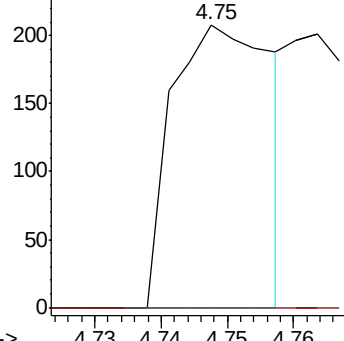
59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#16

Acetone

Concen: 7.991 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058046.D

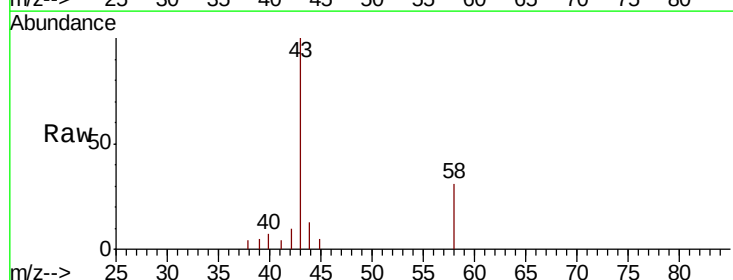
Acq: 14 Sep 2019 2:21

Tgt Ion: 43 Resp: 16256

Ion Ratio Lower Upper

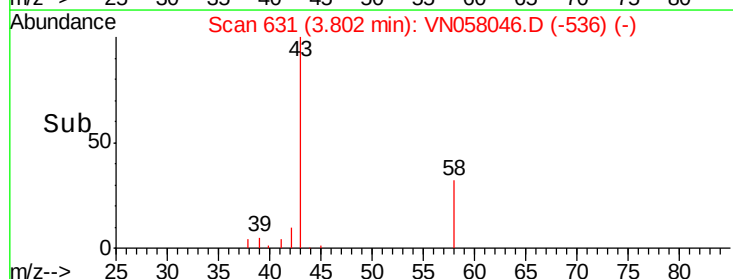
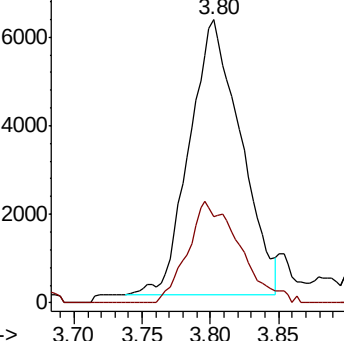
43 100

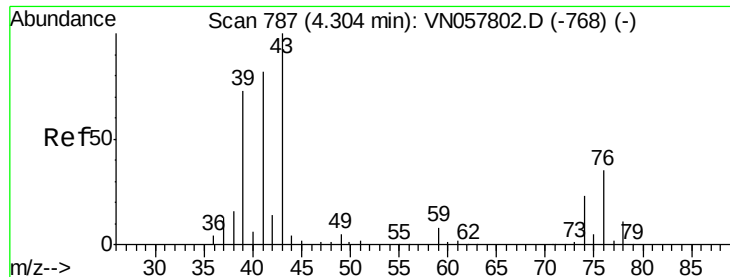
58 31.5 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

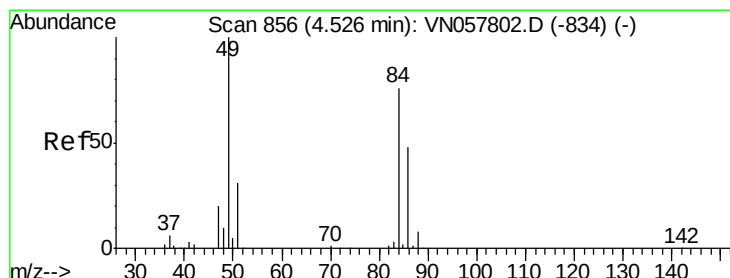
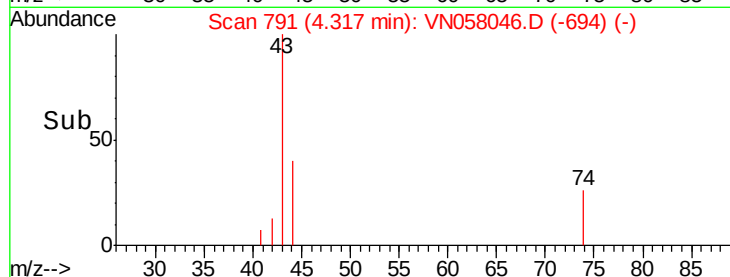
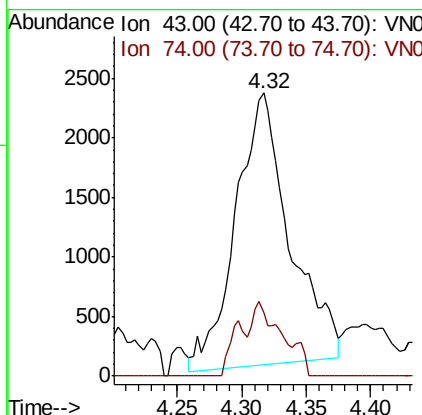
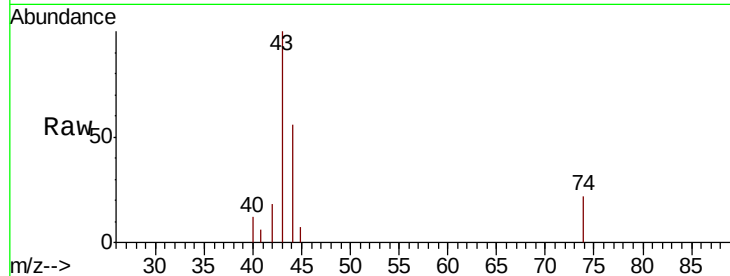




#18
Methyl Acetate
Concen: 1.231 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN058046.D
Acq: 14 Sep 2019 2:21

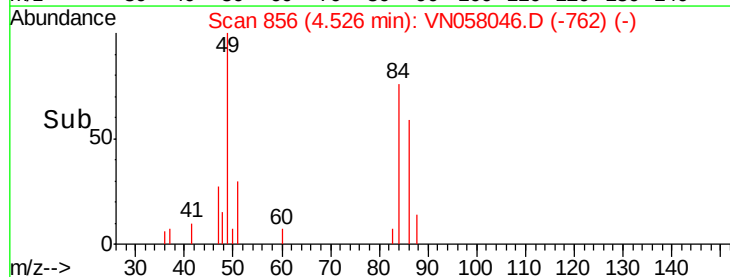
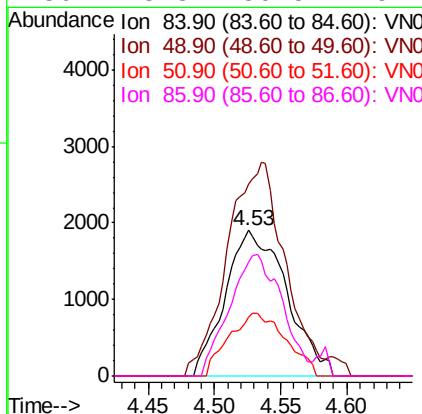
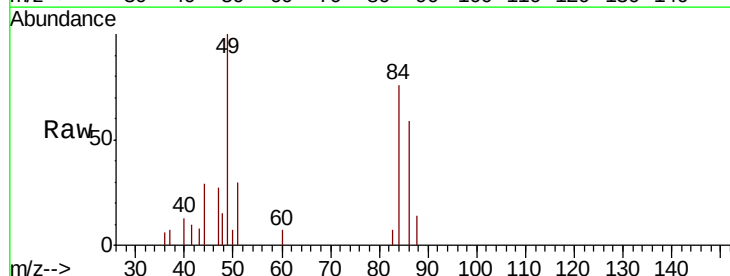
Instrument :
MSVOA_N
ClientSampled :
T2-4-(0)

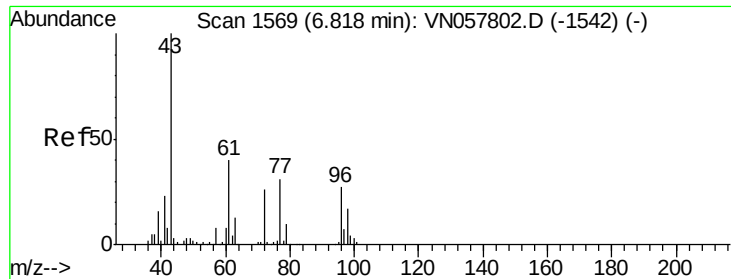
Tgt Ion: 43 Resp: 6676
Ion Ratio Lower Upper
43 100
74 8.0 17.9 26.9#



#20
Methylene Chloride
Concen: 0.365 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN058046.D
Acq: 14 Sep 2019 2:21

Tgt Ion: 84 Resp: 6147
Ion Ratio Lower Upper
84 100
49 123.2 104.8 157.2
51 40.1 33.0 49.4
86 78.3 50.5 75.7#

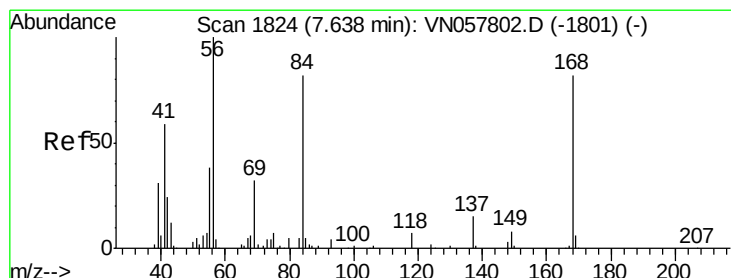
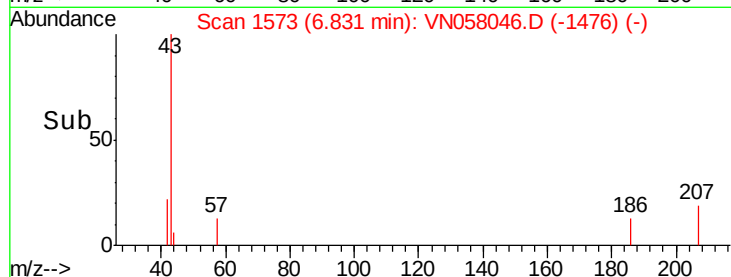
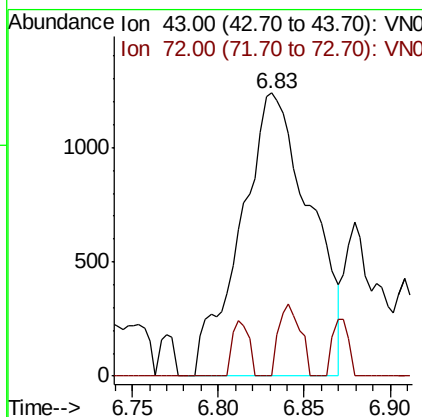
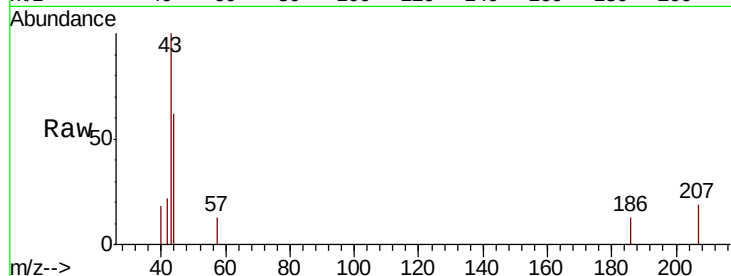




#25
2-Butanone
Concen: 1.187 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN058046.D
Acq: 14 Sep 2019 2:21

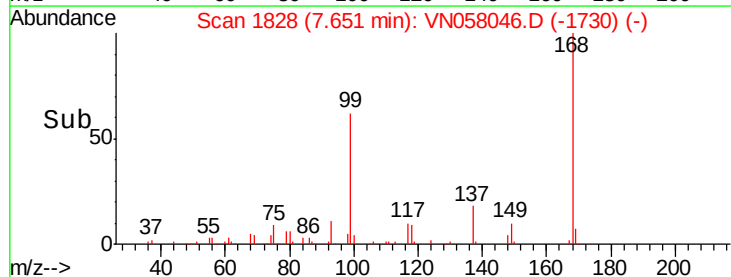
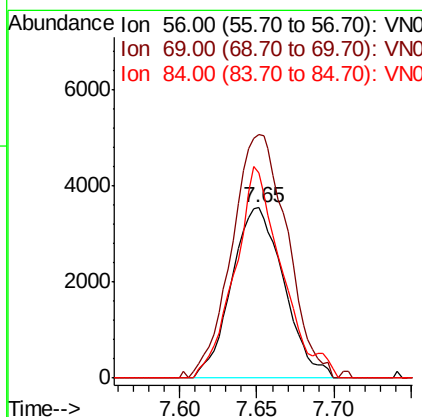
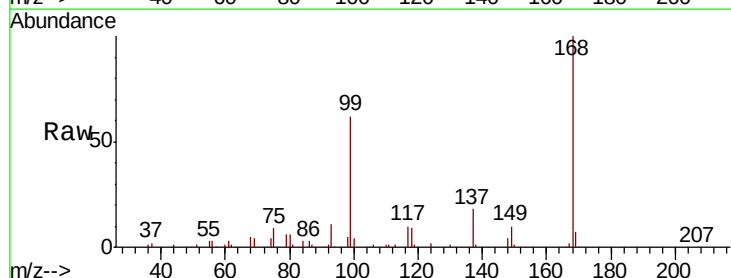
Instrument :
MSVOA_N
ClientSampled :
T2-4-(0)

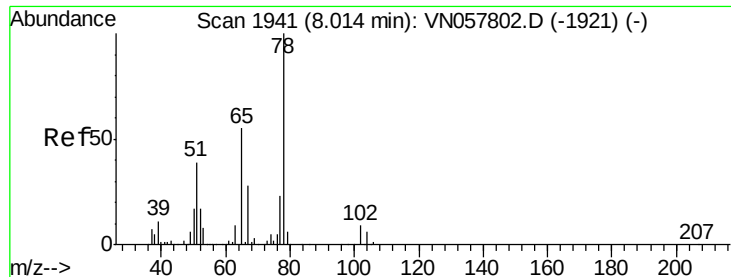
Tgt Ion: 43 Resp: 3496
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN058046.D
Acq: 14 Sep 2019 2:21

Tgt Ion: 56 Resp: 8368
Ion Ratio Lower Upper
56 100
69 143.1 25.9 38.9#
84 120.9 65.6 98.4#

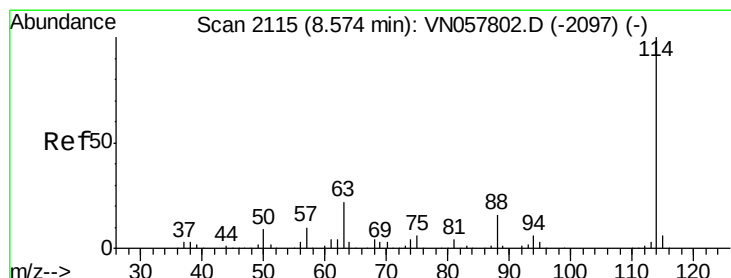
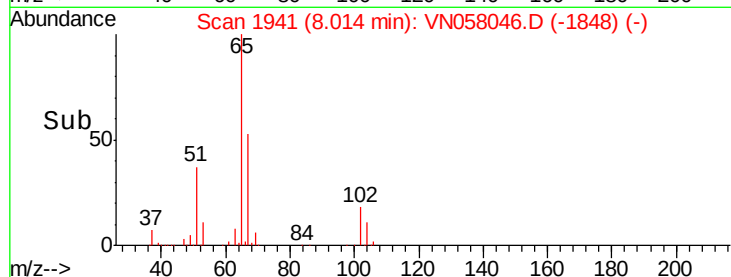
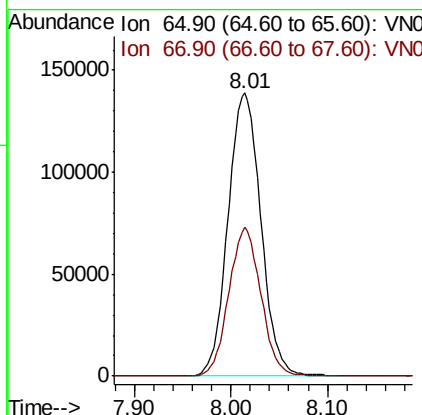
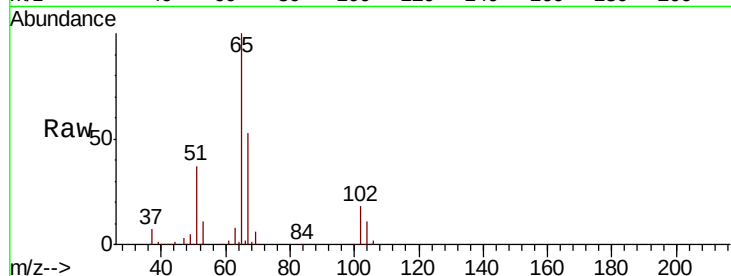




#33
 1,2-Dichloroethane-d4
 Concen: 52.845 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058046.D
 Acq: 14 Sep 2019 2:21

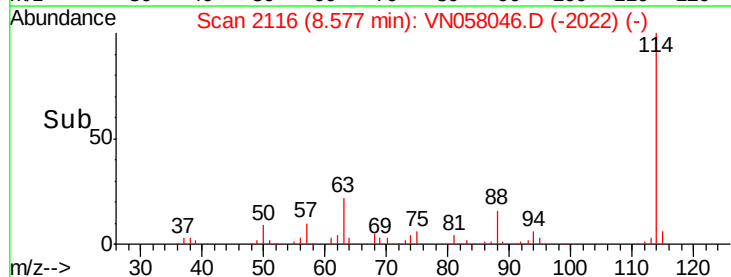
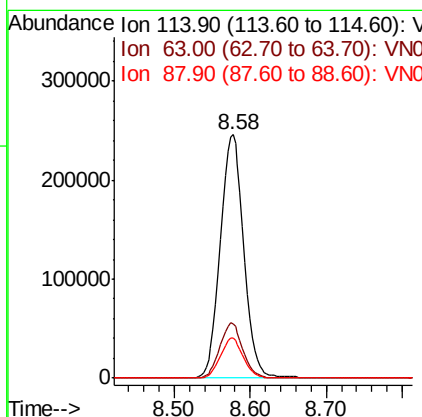
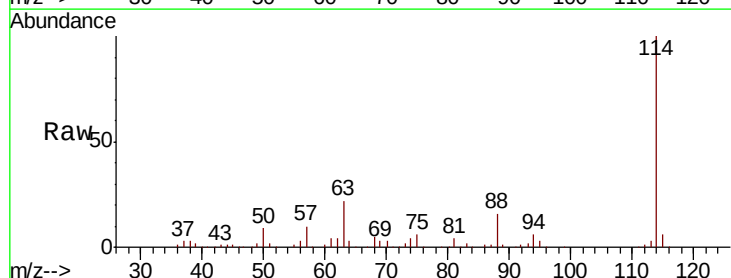
Instrument :
 MSVOA_N
 ClientSampled :
 T2-4-(0)

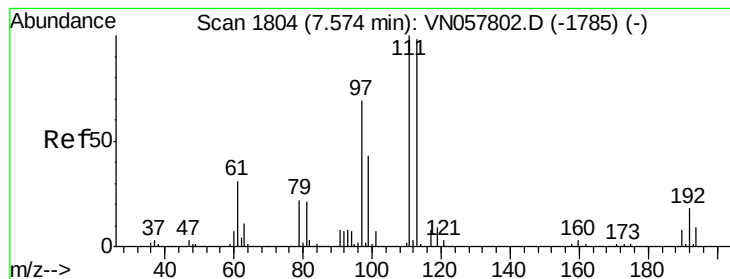
Tgt Ion: 65 Resp: 327919
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058046.D
 Acq: 14 Sep 2019 2:21

Tgt Ion: 114 Resp: 528864
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 44.0
 88 16.5 0.0 31.4





#35

Dibromofluoromethane

Concen: 46.834 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058046.D

Acq: 14 Sep 2019 2:21

Instrument :

MSVOA_N

ClientSampleId :

T2-4-(0)

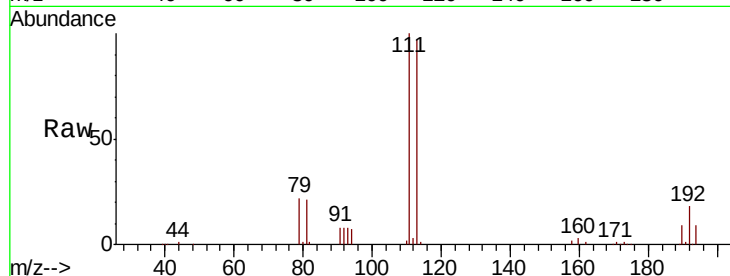
Tgt Ion: 113 Resp: 228606

Ion Ratio Lower Upper

113 100

111 105.0 81.3 121.9

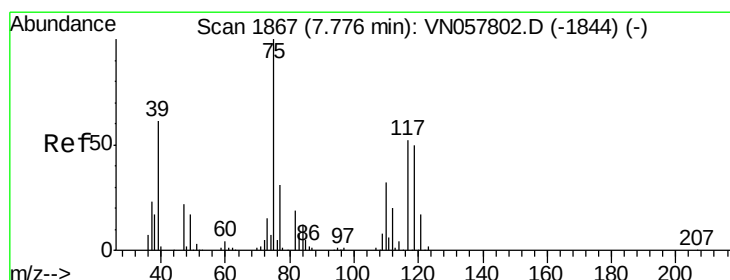
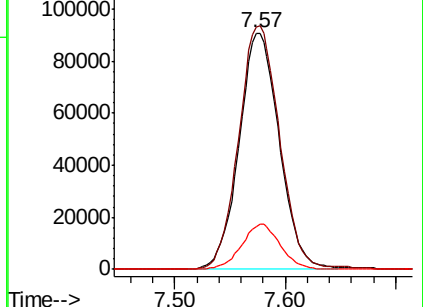
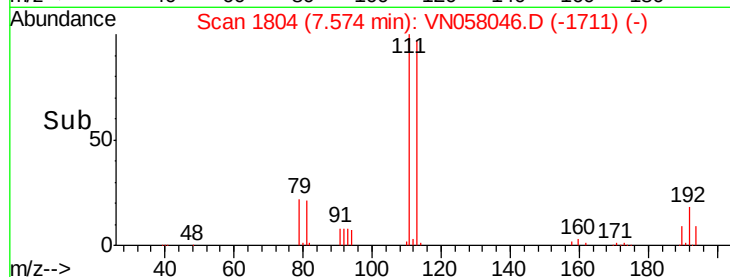
192 18.3 14.6 22.0



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: 4.390 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.12 min

Lab File: VN058046.D

Acq: 14 Sep 2019 2:21

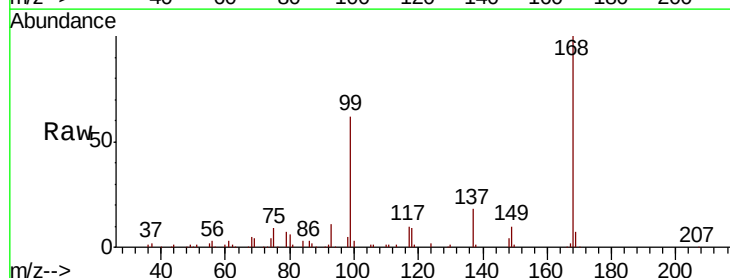
Tgt Ion: 75 Resp: 26927

Ion Ratio Lower Upper

75 100

110 5.4 16.3 48.9#

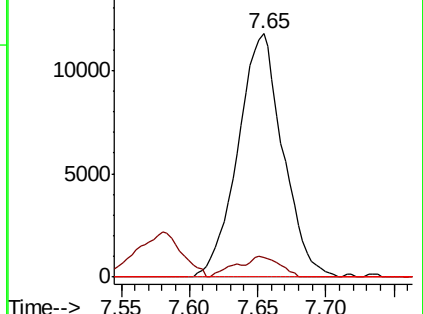
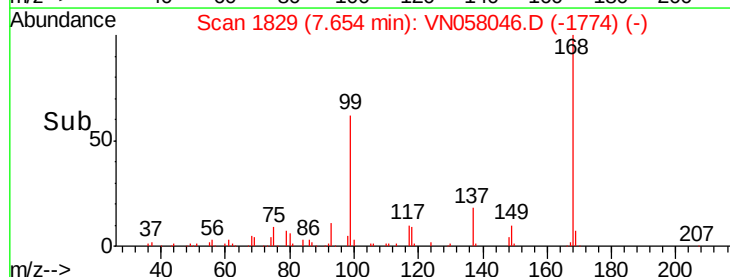
77 0.0 25.0 37.4#

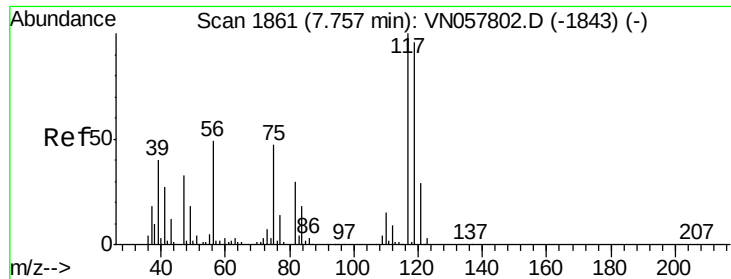


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

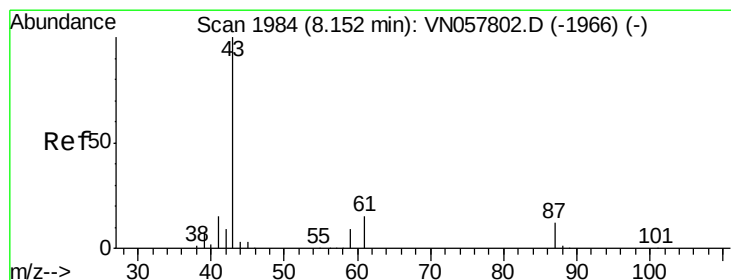
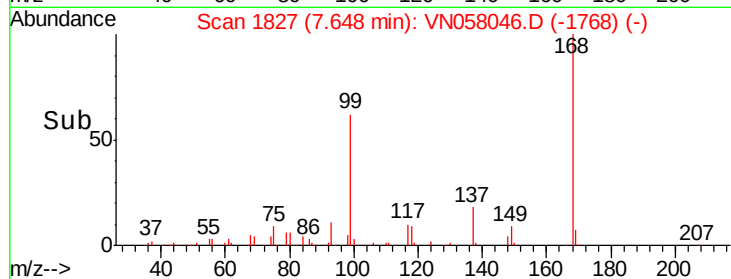
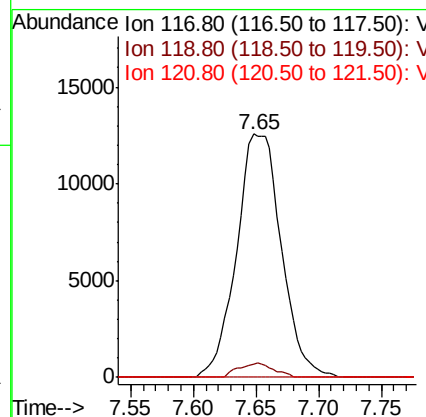
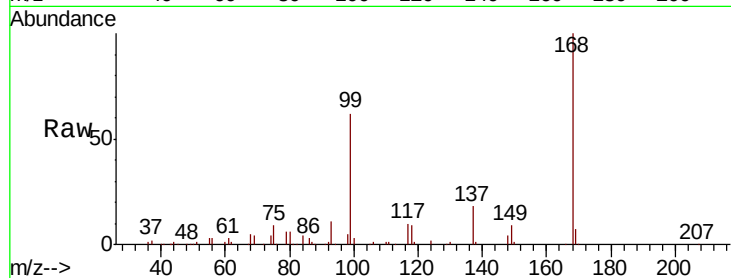




#38
Carbon Tetrachloride
Concen: 5.551 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058046.D
Acq: 14 Sep 2019 2:21

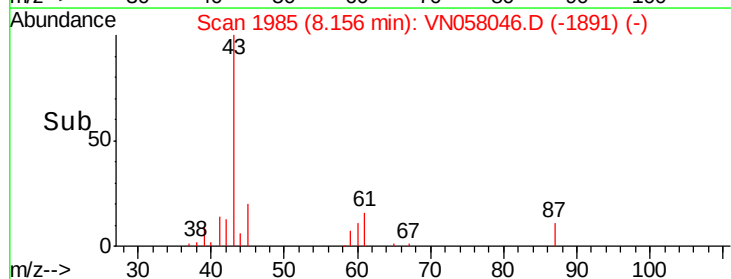
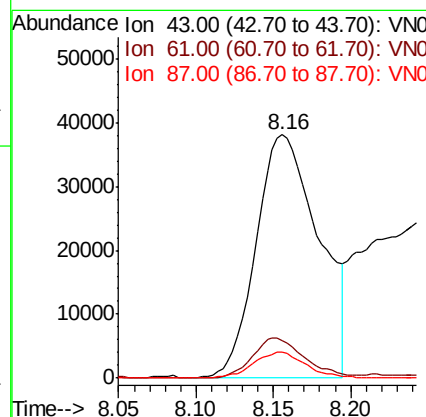
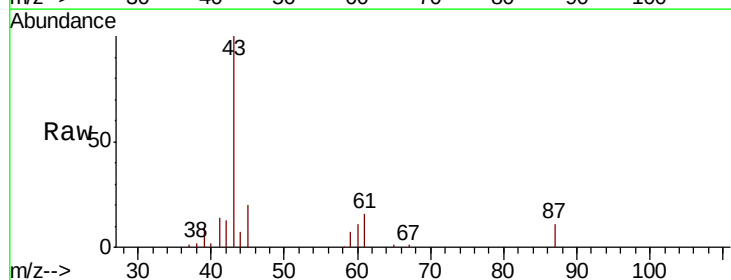
Instrument :
MSVOA_N
ClientSampled :
T2-4-(0)

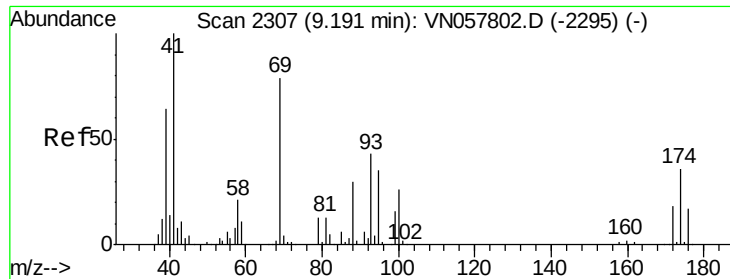
Tgt Ion:117 Resp: 31084
Ion Ratio Lower Upper
117 100
119 5.7 76.9 115.3#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 10.102 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.00 min
Lab File: VN058046.D
Acq: 14 Sep 2019 2:21

Tgt Ion: 43 Resp: 107658
Ion Ratio Lower Upper
43 100
61 13.8 20.1 30.1#
87 8.9 9.5 14.3#

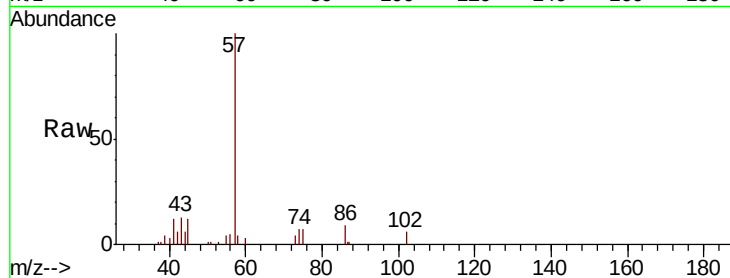




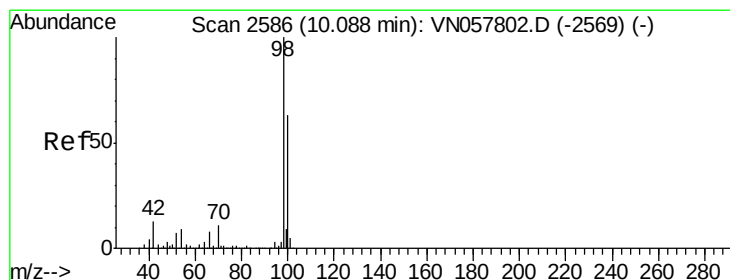
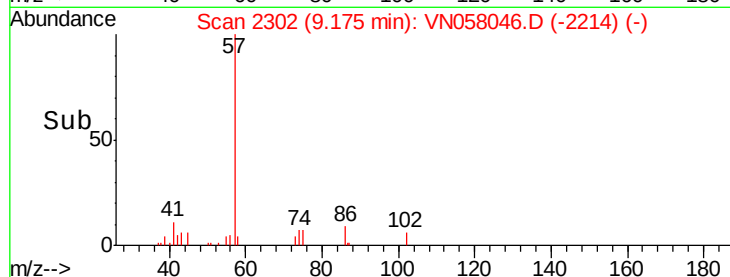
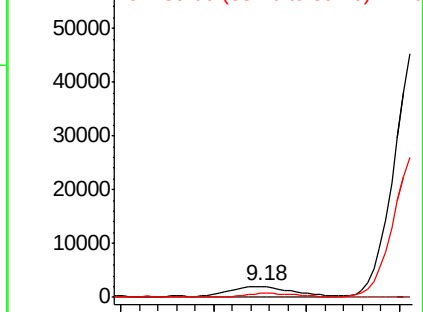
#48
Methyl methacrylate
Concen: 0.785 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN058046.D
Acq: 14 Sep 2019 2:21

Instrument :
MSVOA_N
ClientSampled :
T2-4-(0)

Tgt Ion: 41 Resp: 4243
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#

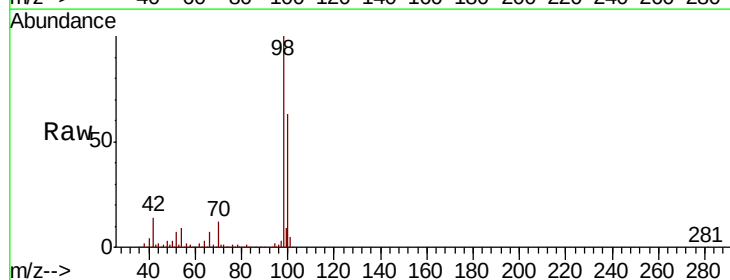


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

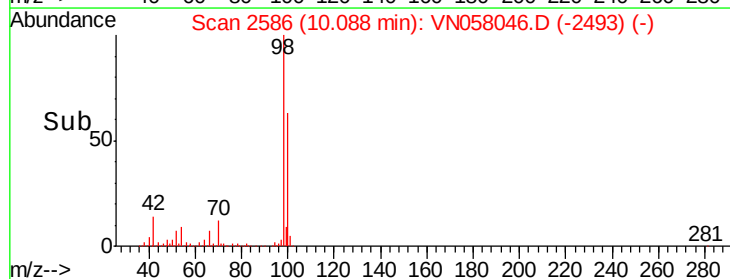
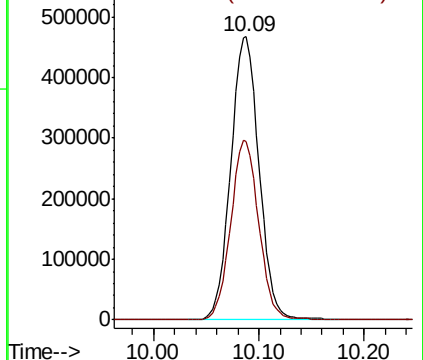


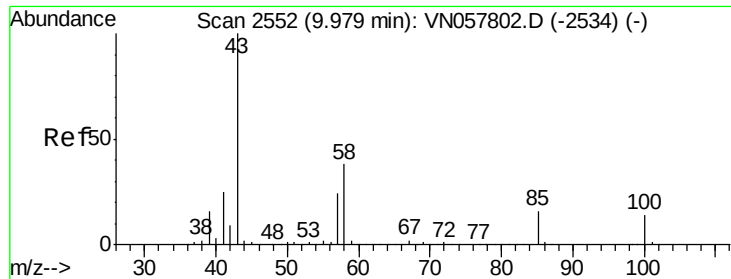
#50
Toluene-d8
Concen: 45.793 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN058046.D
Acq: 14 Sep 2019 2:21

Tgt Ion: 98 Resp: 867842
Ion Ratio Lower Upper
98 100
100 62.9 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.930 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058046.D

Acq: 14 Sep 2019 2:21

Instrument :

MSVOA_N

ClientSampleId :

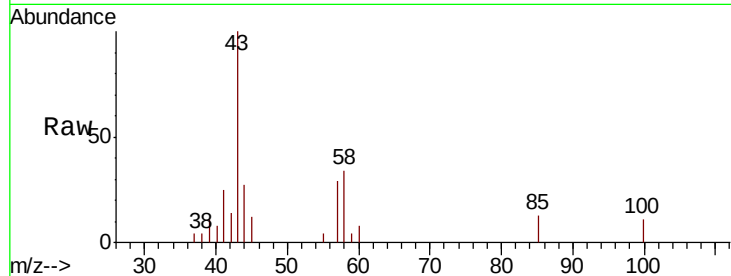
T2-4-(0)

Tgt Ion: 43 Resp: 5866

Ion Ratio Lower Upper

43 100

58 43.2 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

12000

10000

8000

6000

4000

2000

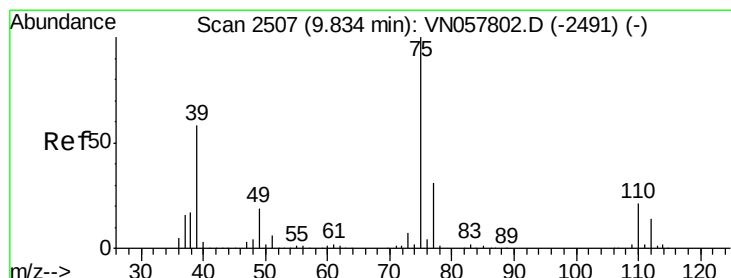
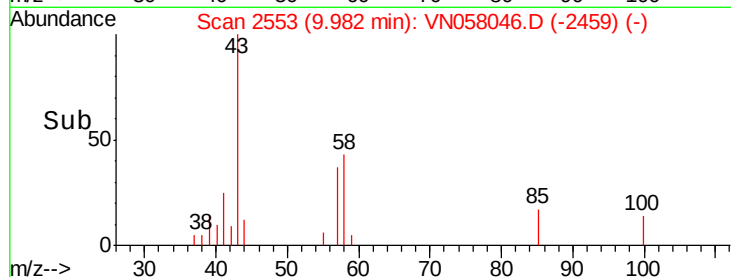
0

9.95

9.98

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 4.713 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058046.D

Acq: 14 Sep 2019 2:21

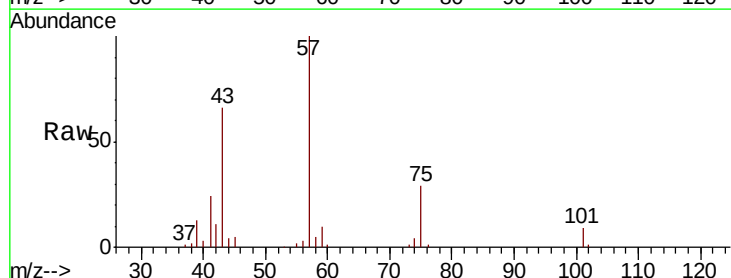
Tgt Ion: 75 Resp: 35527

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 45.0 46.2 69.4#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-2491) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-2491) (-)

Ion 39.00 (38.70 to 39.70): VN057802.D (-2491) (-)

25000

20000

15000

10000

5000

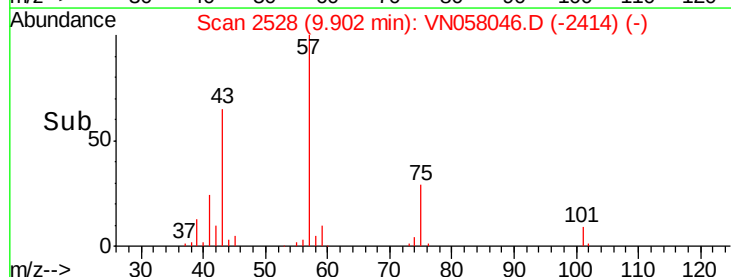
0

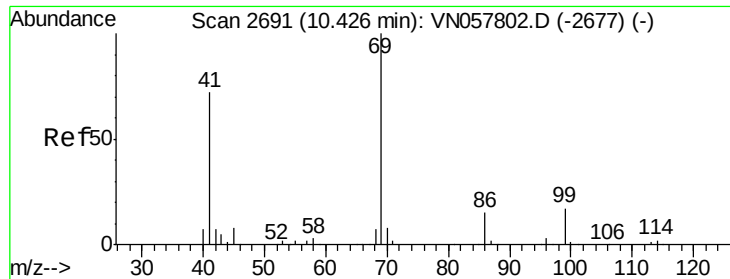
9.85

9.90

9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.269 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN058046.D

Acq: 14 Sep 2019 2:21

Instrument :

MSVOA_N

ClientSampled :

T2-4-(0)

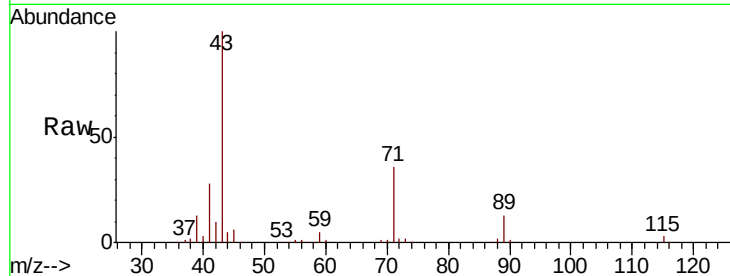
Tgt Ion: 69 Resp: 1992

Ion Ratio Lower Upper

69 100

41 4877.4 56.7 85.1#

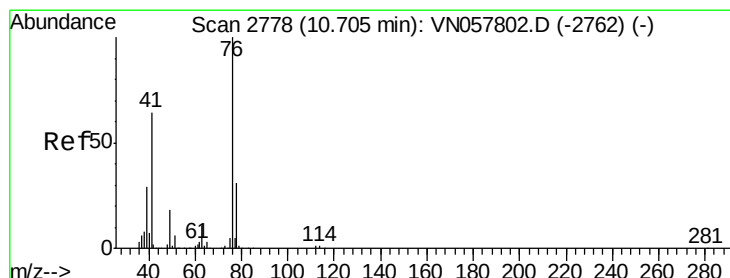
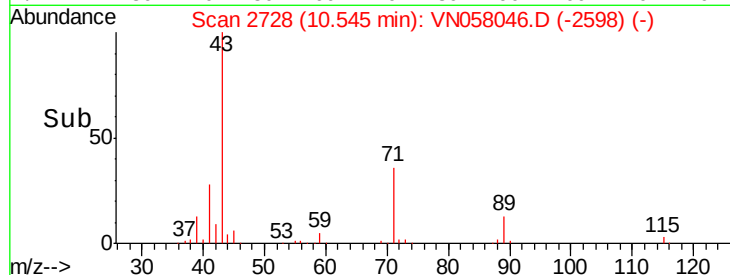
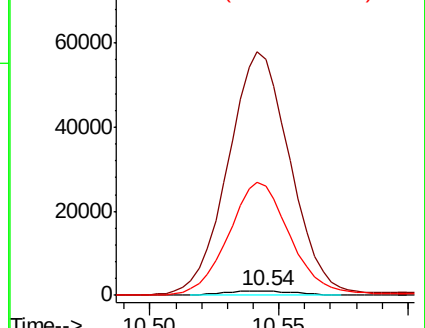
39 2269.7 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.457 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058046.D

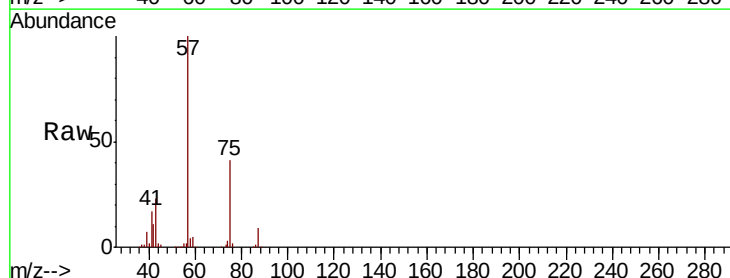
Acq: 14 Sep 2019 2:21

Tgt Ion: 76 Resp: 3877

Ion Ratio Lower Upper

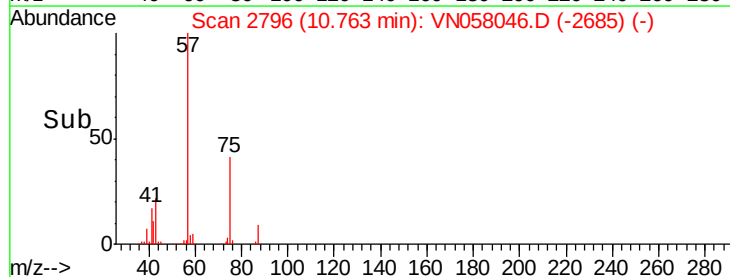
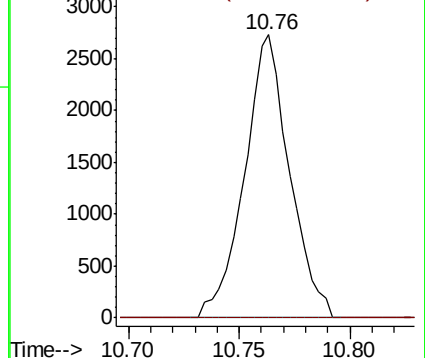
76 100

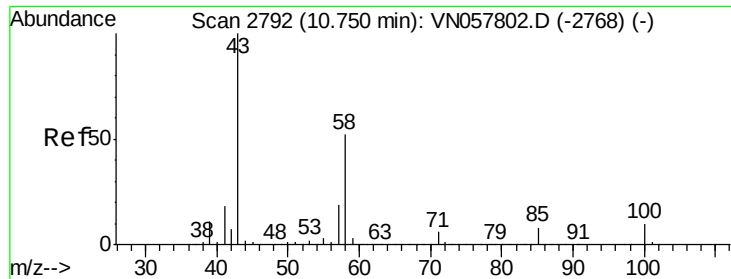
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

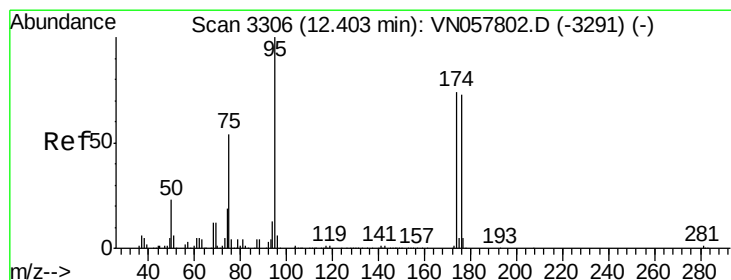
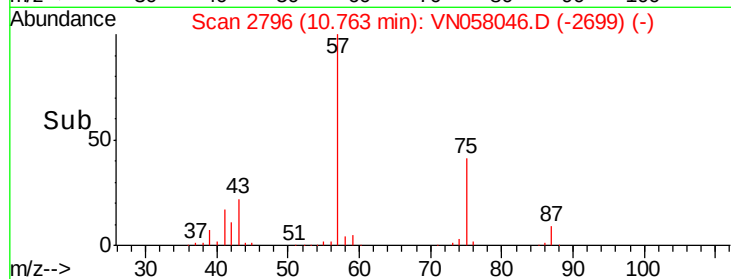
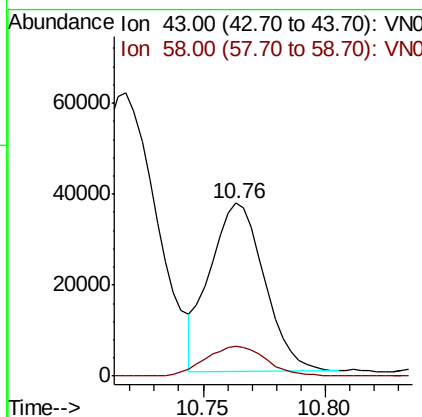
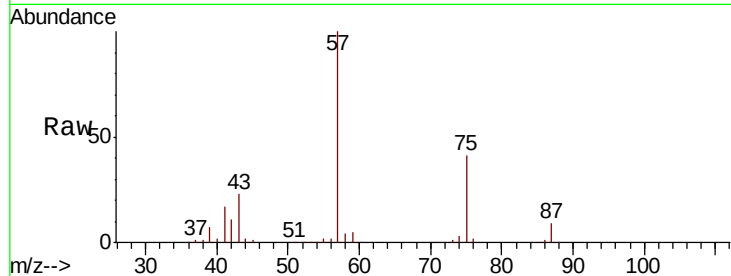




#59
 2-Hexanone
 Concen: 12.089 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN058046.D
 Acq: 14 Sep 2019 2:21

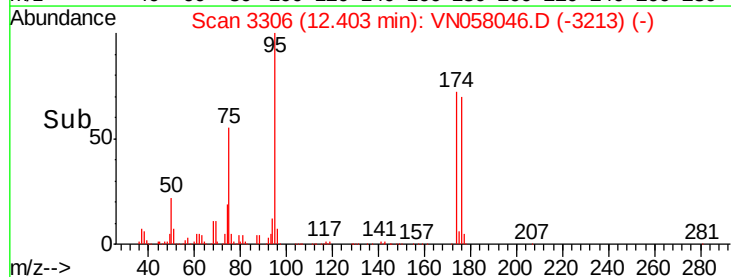
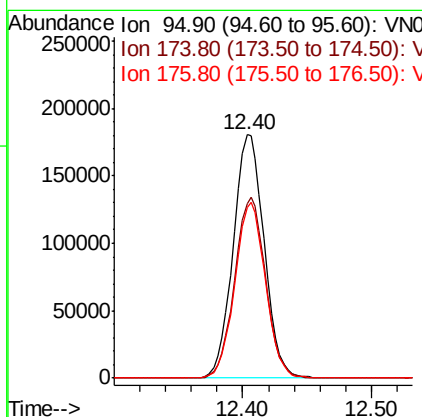
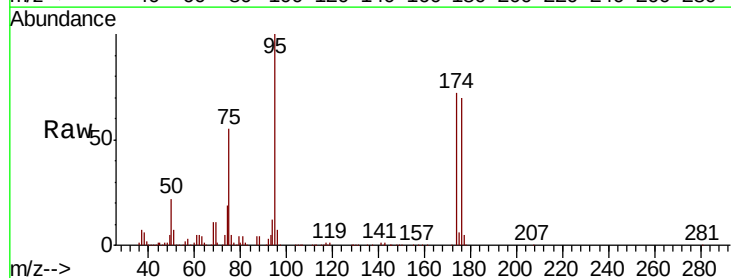
Instrument :
 MSVOA_N
 ClientSampleId :
 T2-4-(0)

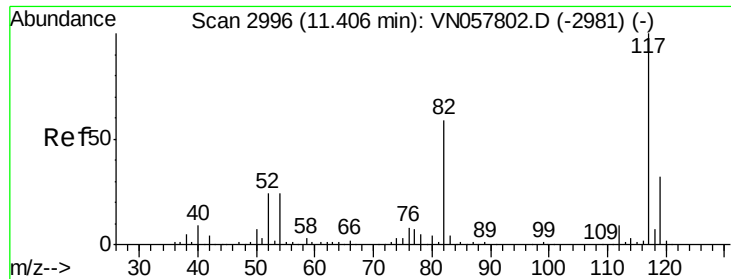
Tgt Ion: 43 Resp: 57141
 Ion Ratio Lower Upper
 43 100
 58 20.4 25.6 76.8#



#62
 4-Bromofluorobenzene
 Concen: 41.616 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN058046.D
 Acq: 14 Sep 2019 2:21

Tgt Ion: 95 Resp: 300559
 Ion Ratio Lower Upper
 95 100
 174 74.2 0.0 150.2
 176 71.5 0.0 146.0

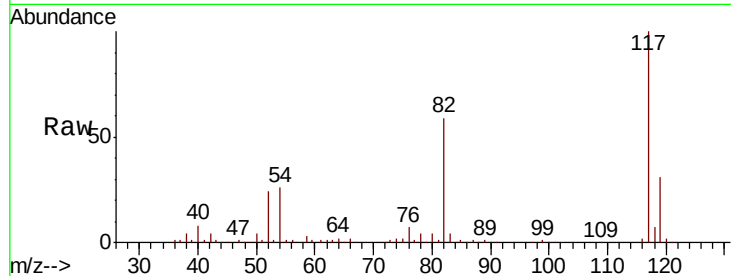




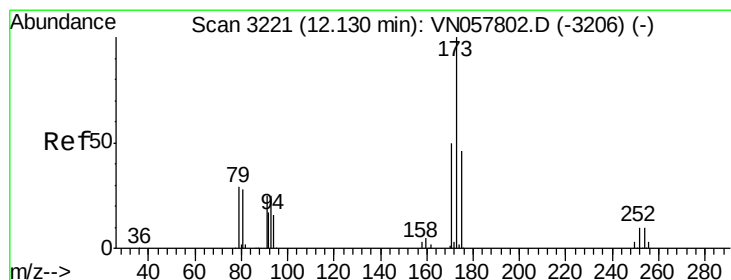
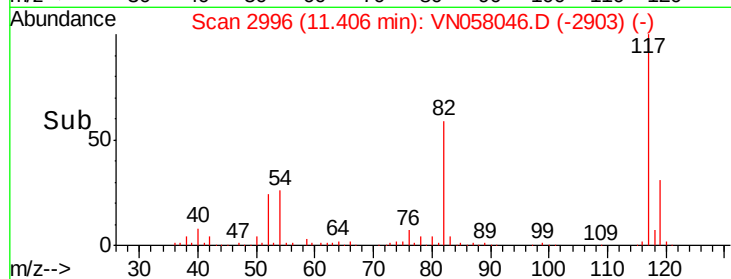
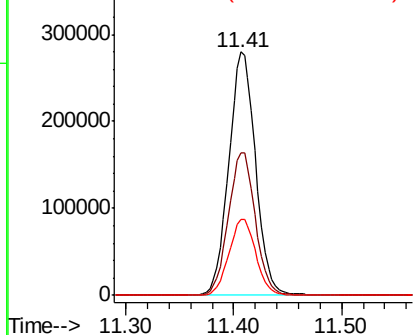
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058046.D
Acq: 14 Sep 2019 2:21

Instrument :
MSVOA_N
ClientSampleId :
T2-4-(0)

Tgt Ion:117 Resp: 484069
Ion Ratio Lower Upper
117 100
82 58.8 47.2 70.8
119 31.2 25.3 37.9

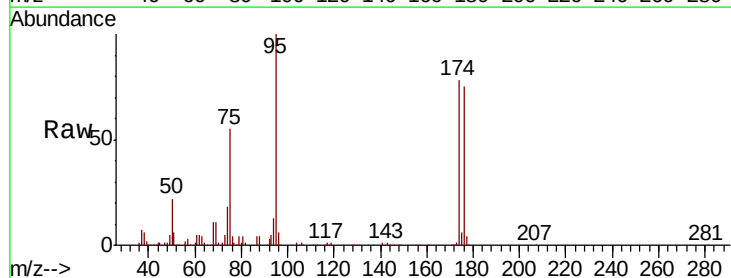


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

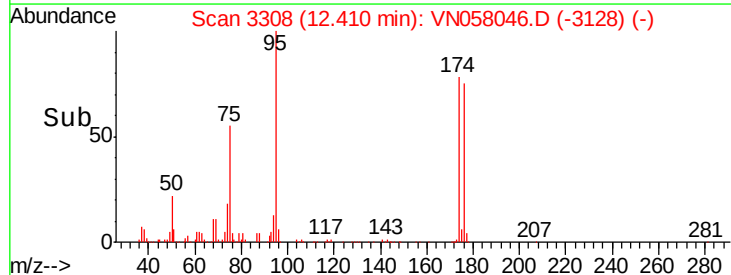
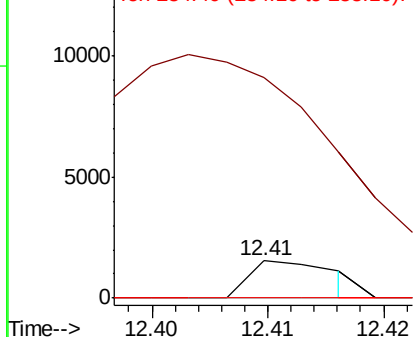


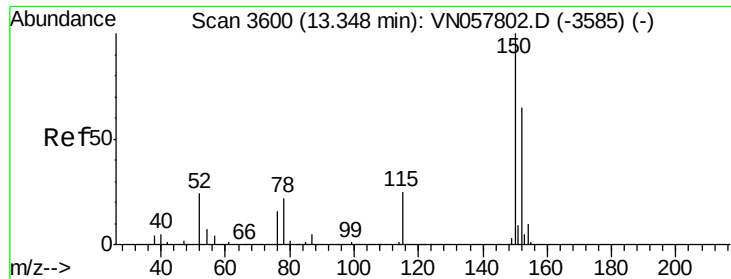
#71
Bromoform
Concen: 0.284 ug/l
RT: 12.41 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN058046.D
Acq: 14 Sep 2019 2:21

Tgt Ion:173 Resp: 779
Ion Ratio Lower Upper
173 100
175 1890.6 23.5 70.6#
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058046.D

Acq: 14 Sep 2019 2:21

Instrument :

MSVOA_N

ClientSampleId :

T2-4-(0)

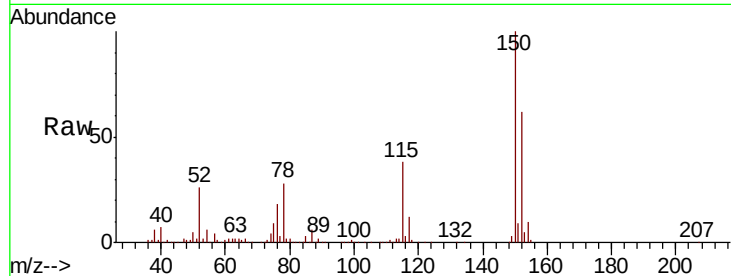
Tgt Ion:152 Resp: 249323

Ion Ratio Lower Upper

152 100

115 61.2 30.3 91.0

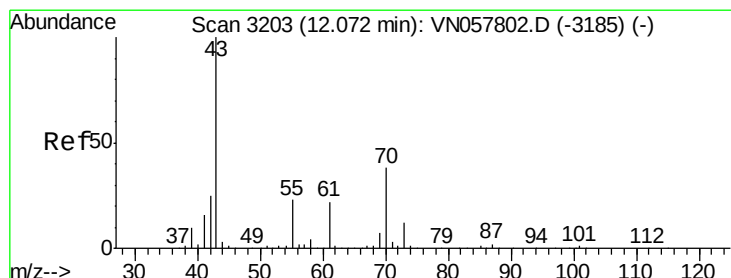
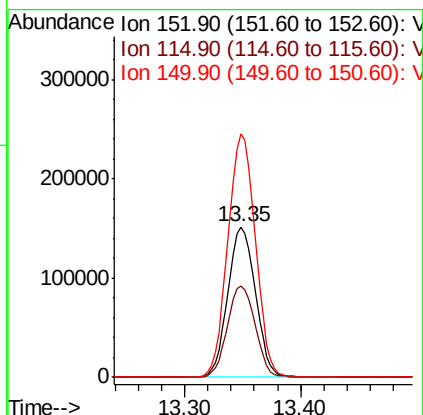
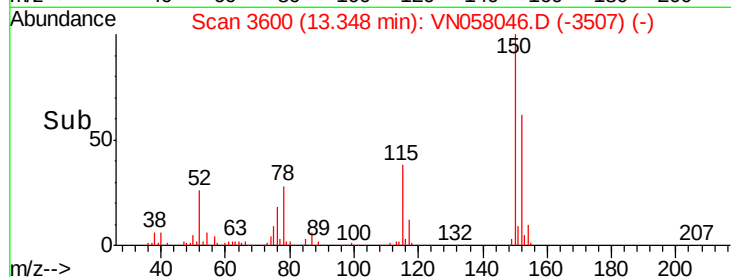
150 161.5 0.0 352.4



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-ethyl acetate

Concen: 0.447 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058046.D

Acq: 14 Sep 2019 2:21

Tgt Ion: 43 Resp: 3766

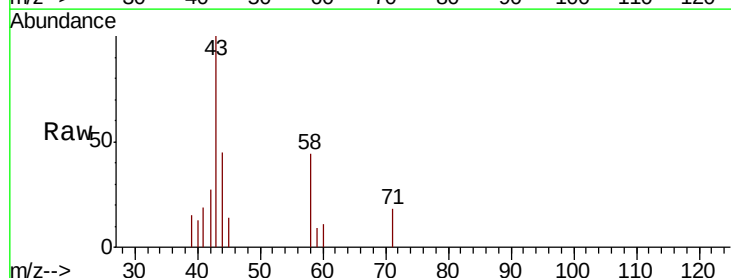
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 1.8 18.6 27.8#

61 0.0 17.4 26.2#

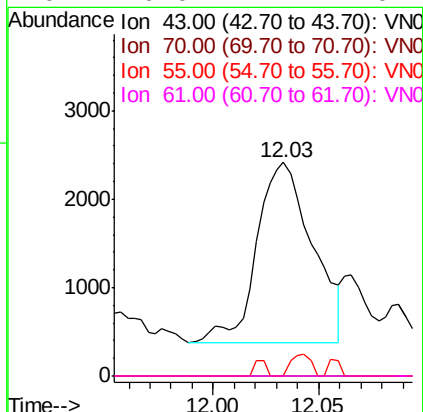
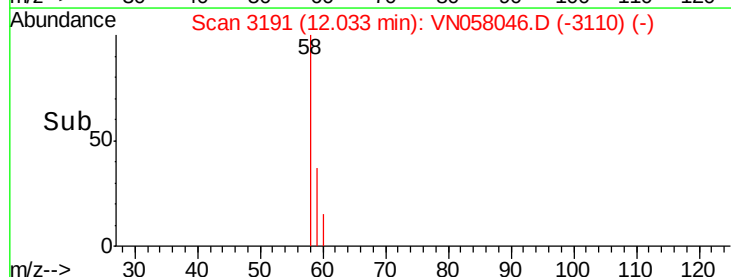


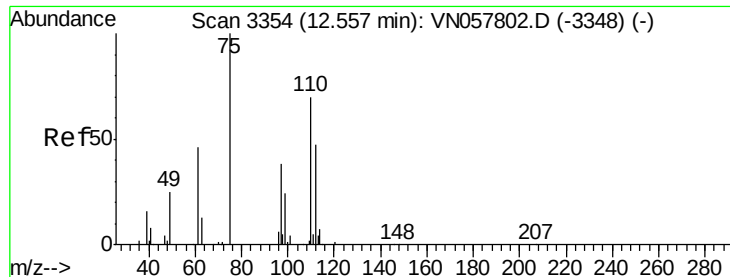
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.505 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058046.D

Acq: 14 Sep 2019 2:21

Instrument :

MSVOA_N

ClientSampled :

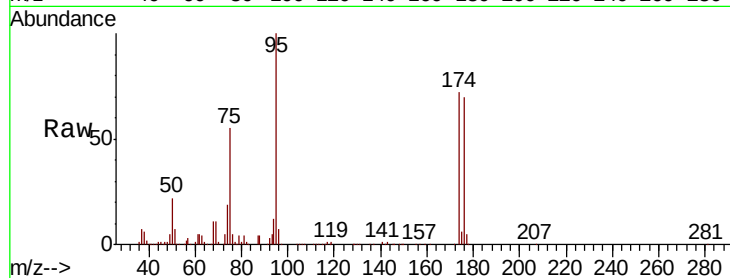
T2-4-(0)

Tgt Ion: 75 Resp: 166409

Ion Ratio Lower Upper

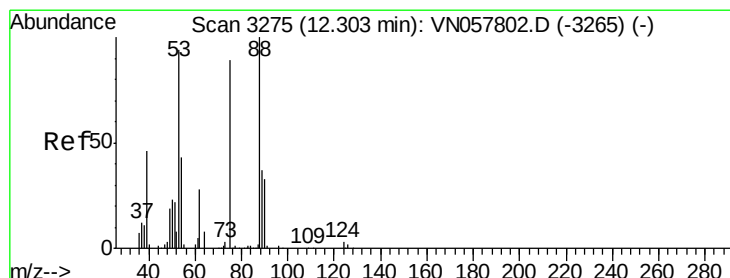
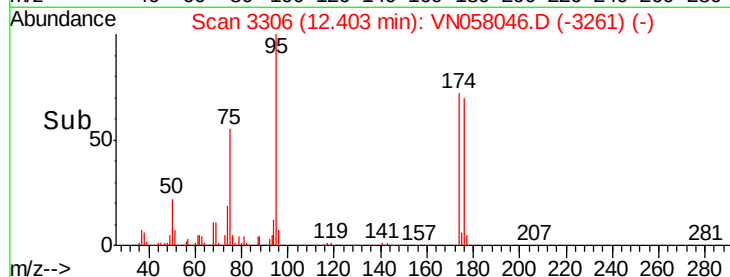
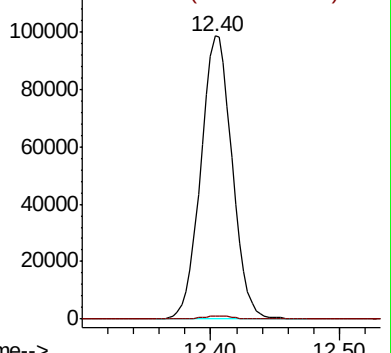
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 103.827 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058046.D

Acq: 14 Sep 2019 2:21

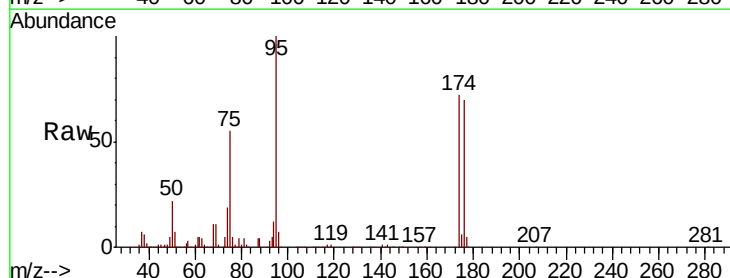
Tgt Ion: 75 Resp: 166409

Ion Ratio Lower Upper

75 100

53 0.1 88.4 132.6#

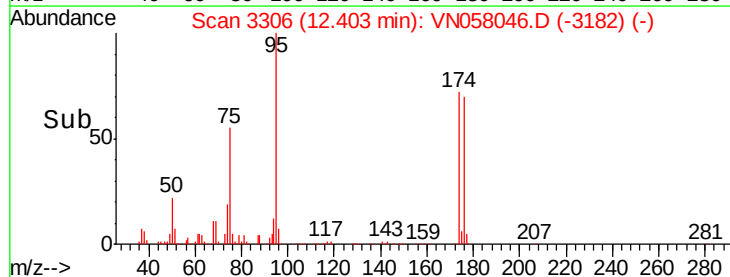
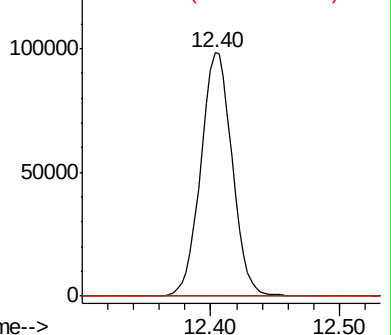
89 0.0 35.3 52.9#

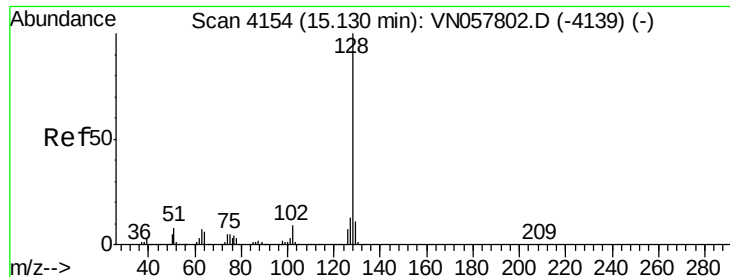


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

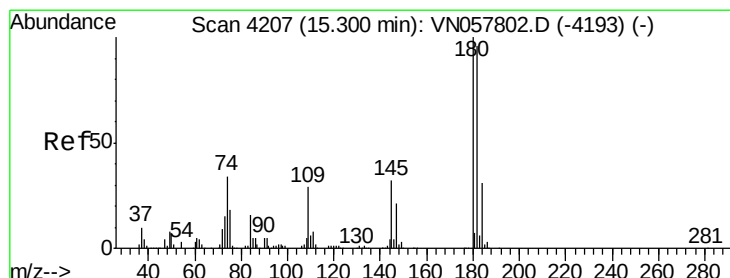
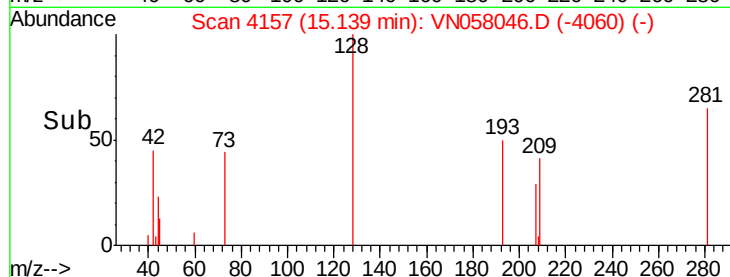
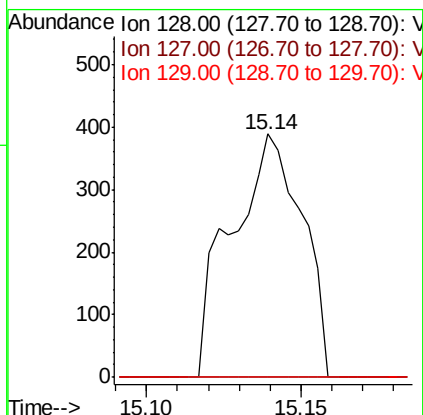
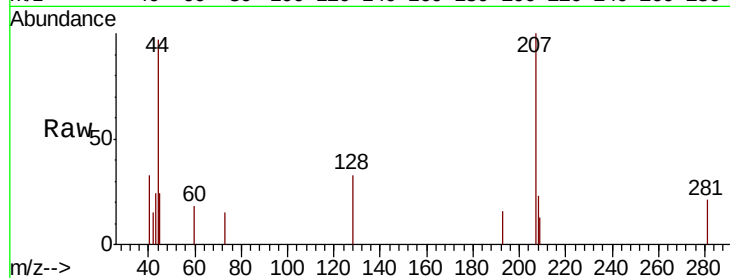




#95
Naphthalene
Concen: Below Cal
RT: 15.14 min Scan# 4157
Delta R.T. 0.01 min
Lab File: VN058046.D
Acq: 14 Sep 2019 2:21

Instrument :
MSVOA_N
ClientSampled :
T2-4(0)

Tgt Ion:128 Resp: 620
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 1.010 ug/l
RT: 15.31 min Scan# 4209
Delta R.T. 0.01 min
Lab File: VN058046.D
Acq: 14 Sep 2019 2:21

Tgt Ion:180 Resp: 60
Ion Ratio Lower Upper
180 100
182 0.0 48.3 144.8#
145 0.0 16.3 48.8#

