

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120618\
 Data File : VN052693.D
 Acq On : 6 Dec 2018 11:57
 Operator : MD\SY
 Sample : PB115376ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 07 06:37:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1167588	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1811966	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1557452	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	559055	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	625742	49.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.44%	
35) Dibromofluoromethane	7.59	113	354696	31.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	63.50%	
50) Toluene-d8	10.09	98	2199416	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
62) 4-Bromofluorobenzene	12.40	95	669875	45.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.70%	

Target Compounds

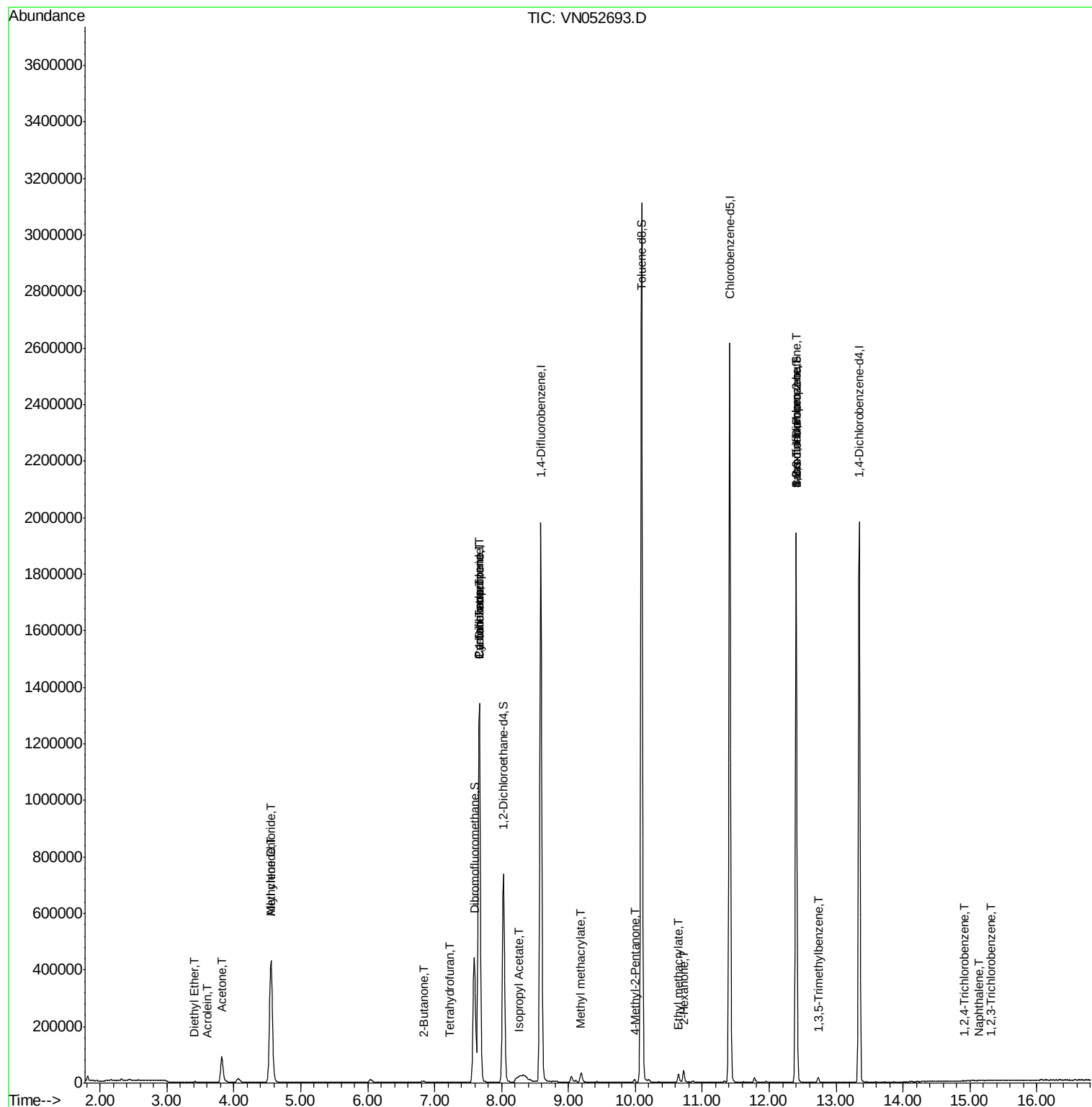
						Qvalue
8) Diethyl Ether	3.42	74	1846	0.275	ug/l	60
13) Acrolein	3.61	56	248	0.224	ug/l #	46
14) Allyl chloride	4.56	41	12638	0.670	ug/l #	26
16) Acetone	3.82	43	157660	47.018	ug/l	99
20) Methylene Chloride	4.55	84	331746	25.282	ug/l	99
25) 2-Butanone	6.85	43	3401	0.716	ug/l #	88
29) Tetrahydrofuran	7.22	42	1860	0.607	ug/l #	70
31) Cyclohexane	7.66	56	20246	0.564	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	81094	4.739	ug/l #	49
38) Carbon Tetrachloride	7.67	117	103742	6.697	ug/l #	16
43) Isopropyl Acetate	8.25	43	18334	1.037	ug/l #	51
48) Methyl methacrylate	9.18	41	16559	1.797	ug/l #	23
51) 4-Methyl-2-Pentanone	9.99	43	6539	0.659	ug/l	94
56) Ethyl methacrylate	10.66	69	377	2.717	ug/l #	1
59) 2-Hexanone	10.72	43	36024	5.413	ug/l #	24
71) Bromoform	12.40	173	3799	0.514	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	318398	36.933	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7956	0.227	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	318398	123.339	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.90	180	561	2.883	ug/l #	26
95) Naphthalene	15.13	128	1202	3.482	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	289	2.757	ug/l #	70

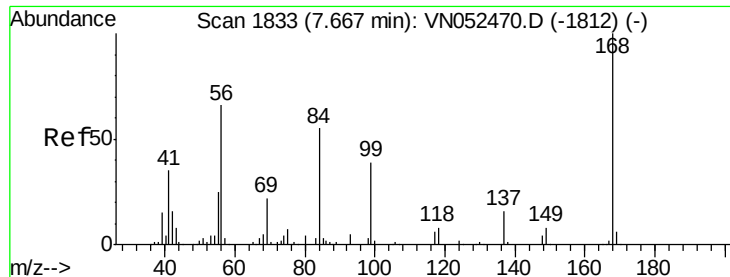
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Dec 03 03:24:02 2018
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: VN052693.D

Acq: 6 Dec 2018 11:57

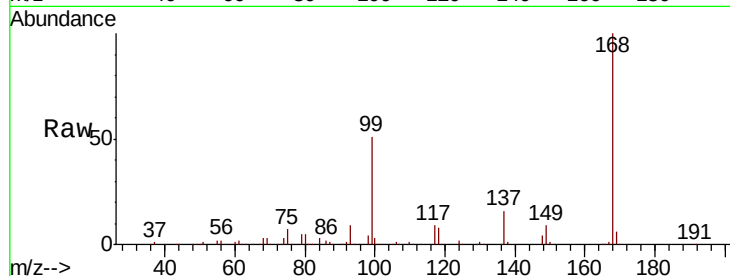
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 1167588

Ion Ratio Lower Upper

168 100

99 51.1 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

500000

400000

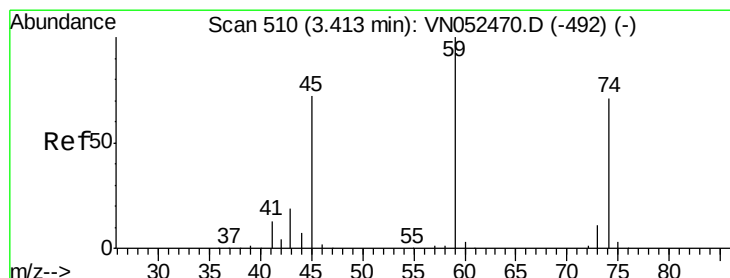
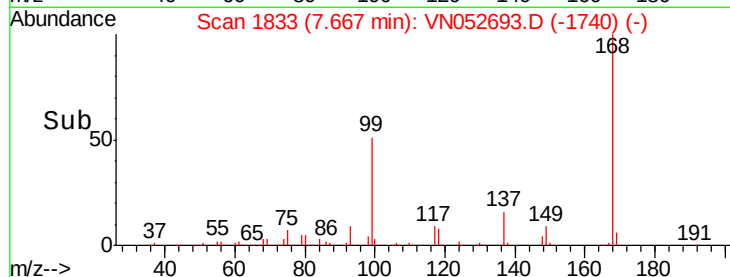
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 0.275 ug/l

RT: 3.42 min Scan# 511

Delta R.T. 0.00 min

Lab File: VN052693.D

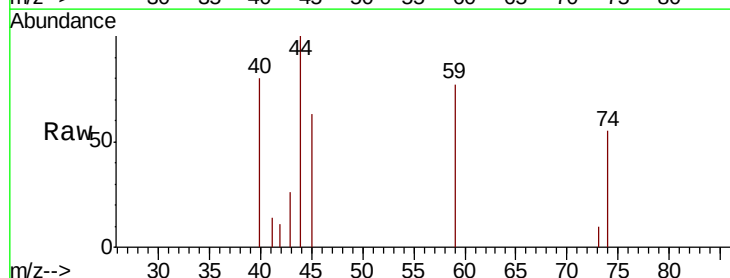
Acq: 6 Dec 2018 11:57

Tgt Ion: 74 Resp: 1846

Ion Ratio Lower Upper

74 100

45 141.1 50.4 151.3



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN

3.42

1200

1000

800

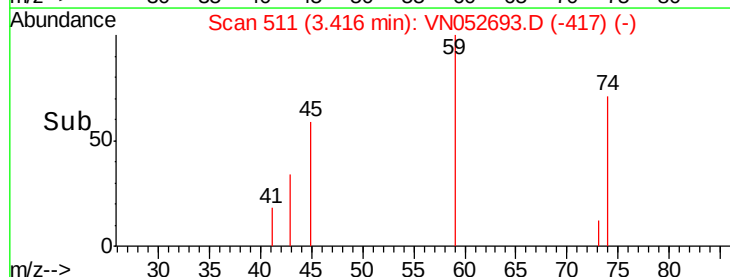
600

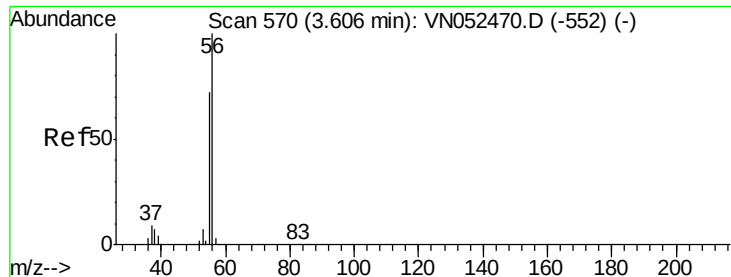
400

200

0

Time-->





#13

Acrolein

Concen: 0.224 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

Instrument :

MSVOA_N

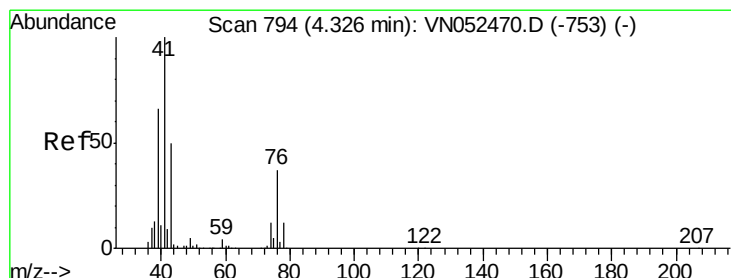
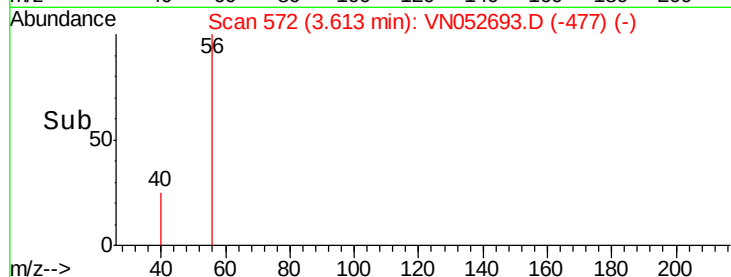
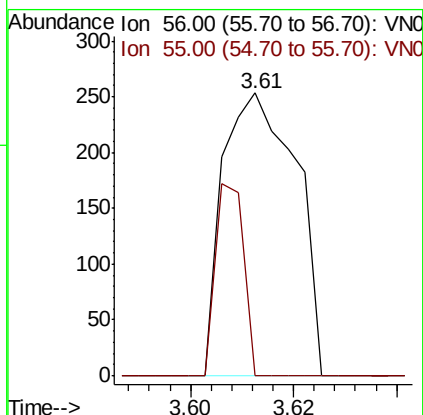
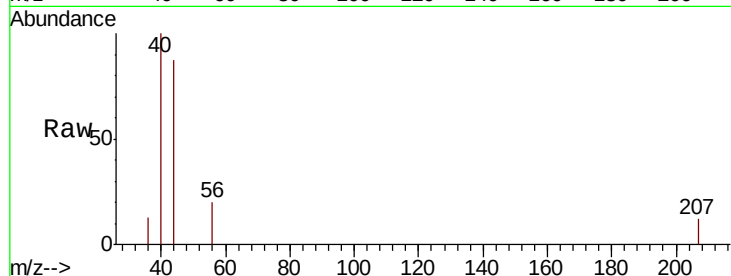
ClientSampleId :

Tot Ion: 56 Resp: 248

Ion Ratio Lower Upper

56 100

55 26.2 56.8 85.2#



#14

Allyl chloride

Concen: 0.670 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.23 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

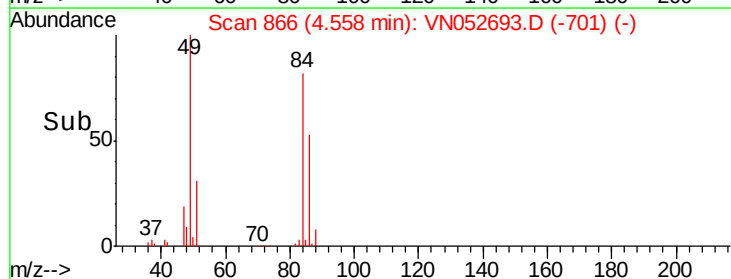
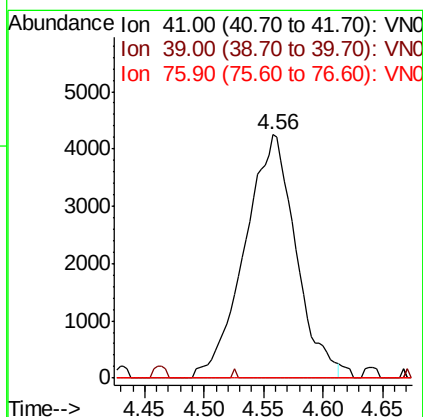
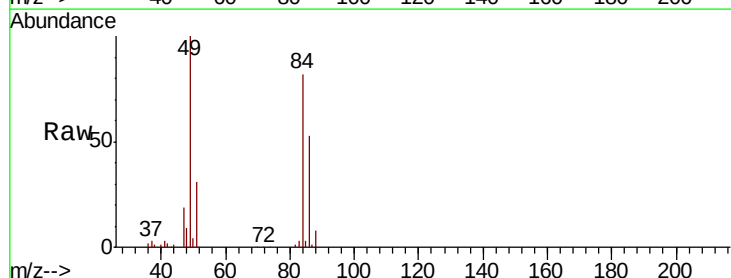
Tgt Ion: 41 Resp: 12638

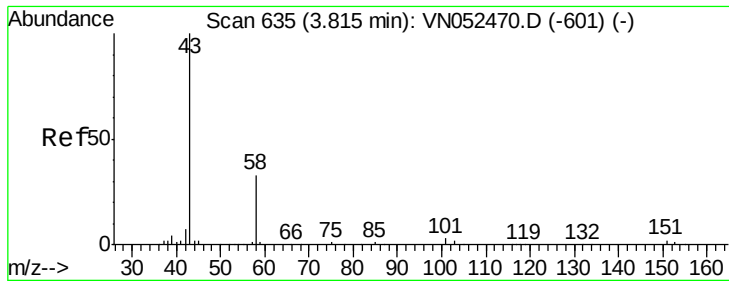
Ion Ratio Lower Upper

41 100

39 0.0 50.6 76.0#

76 0.0 27.4 41.2#





#16

Acetone

Concen: 47.018 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

Instrument :

MSVOA_N

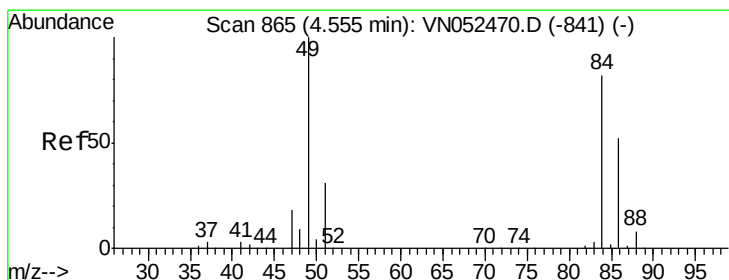
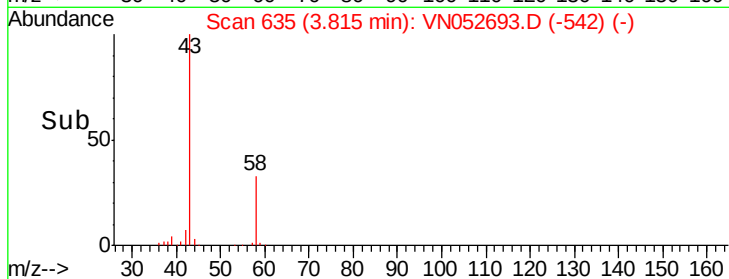
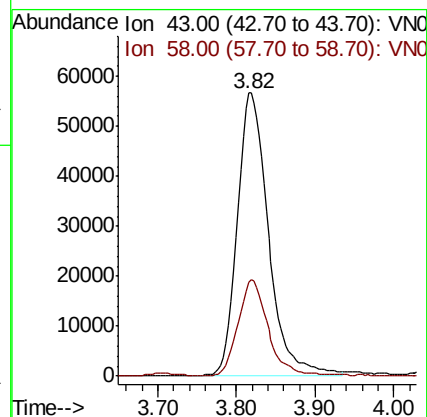
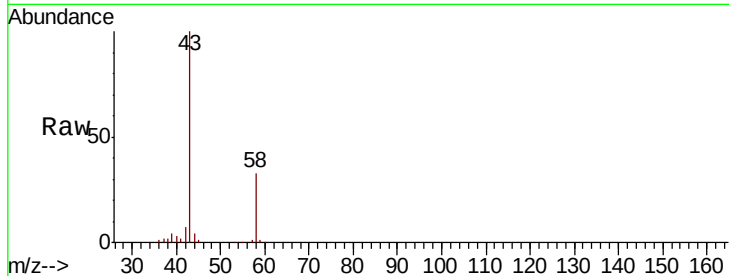
ClientSampled :

Tot Ion: 43 Resp: 157660

Ion Ratio Lower Upper

43 100

58 33.1 26.0 39.0



#20

Methylene Chloride

Concen: 25.282 ug/l

RT: 4.55 min Scan# 865

Delta R.T. -0.00 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

Tgt Ion: 84 Resp: 331746

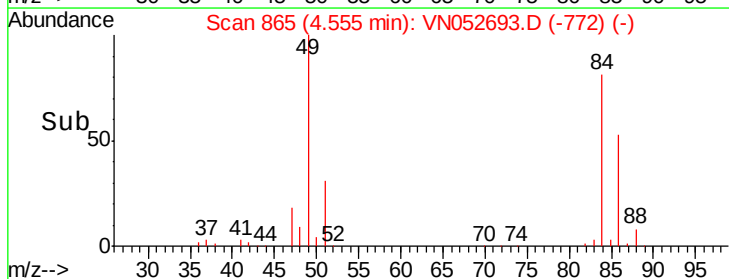
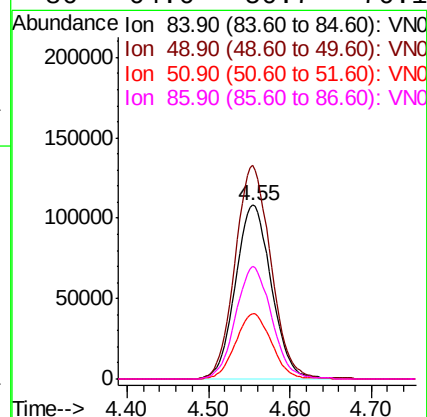
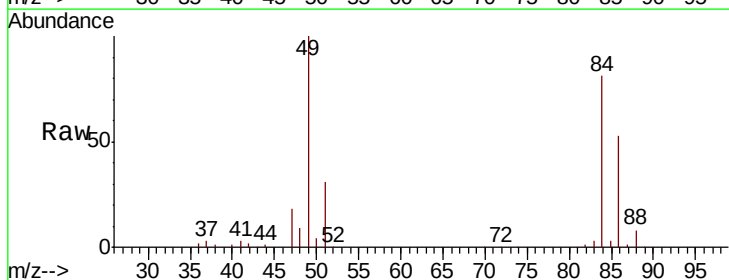
Ion Ratio Lower Upper

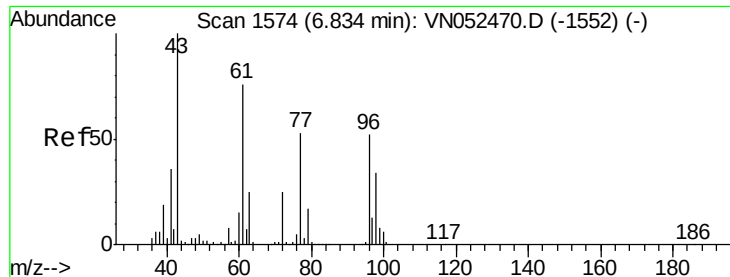
84 100

49 122.8 98.0 147.0

51 37.8 30.1 45.1

86 64.6 50.7 76.1





#25

2-Butanone

Concen: 0.716 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

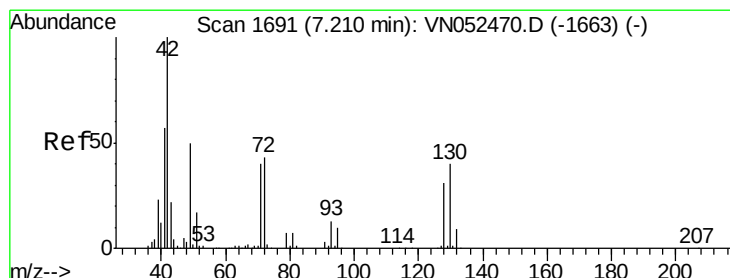
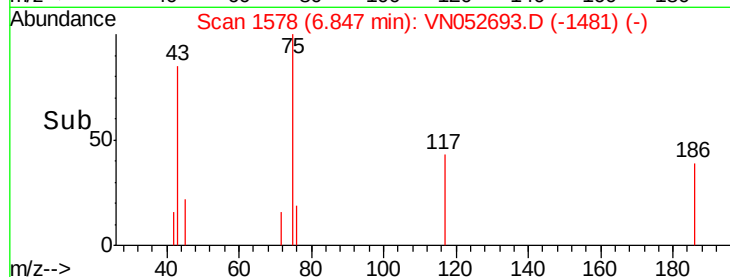
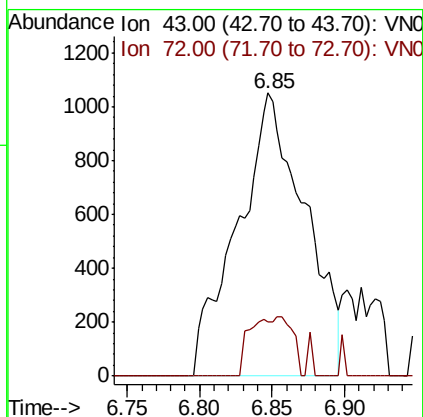
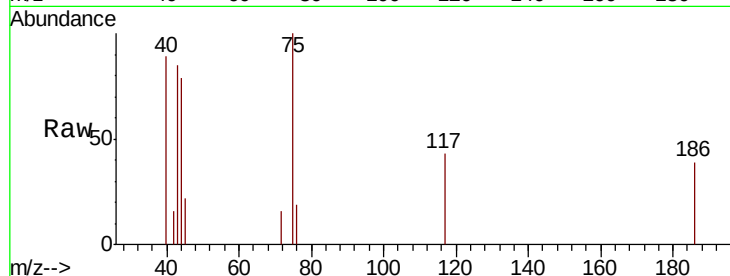
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 3401

Ion Ratio Lower Upper

43 100

72 19.1 20.1 30.1#



#29

Tetrahydrofuran

Concen: 0.607 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

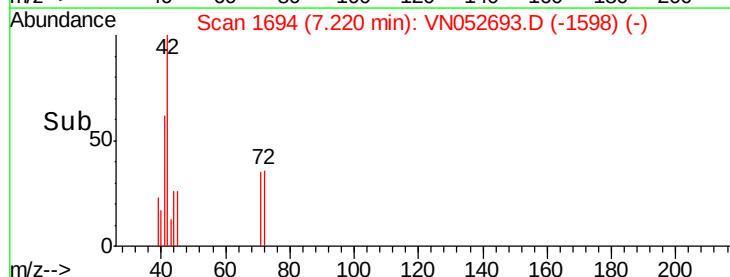
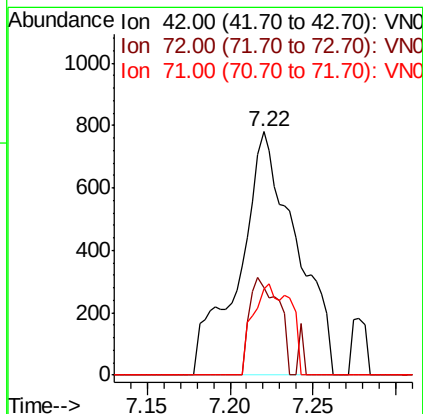
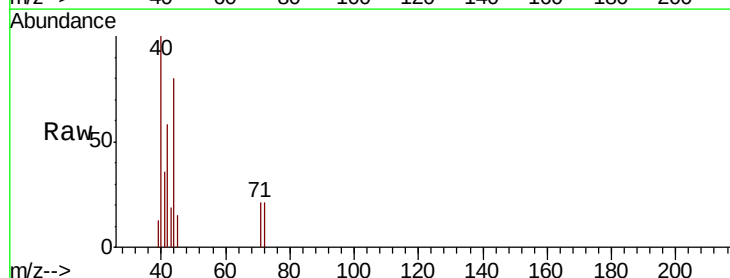
Tgt Ion: 42 Resp: 1860

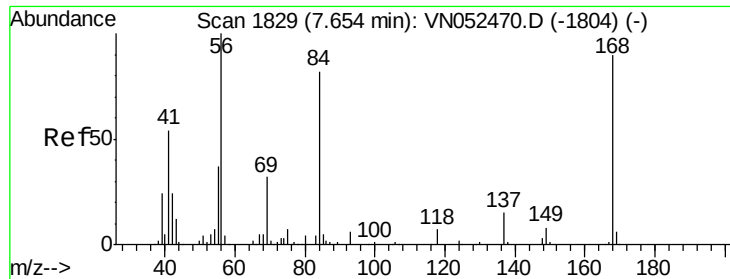
Ion Ratio Lower Upper

42 100

72 20.4 33.3 49.9#

71 24.2 32.0 48.0#

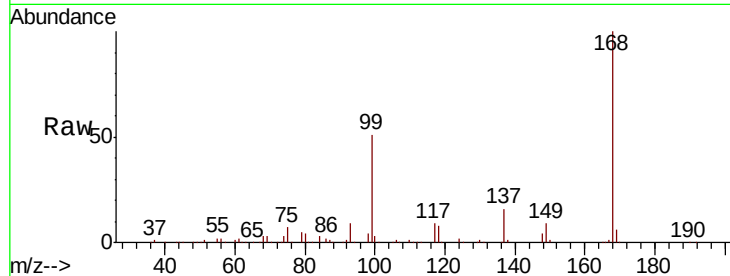




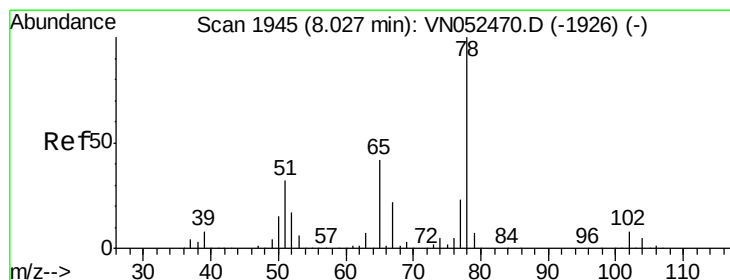
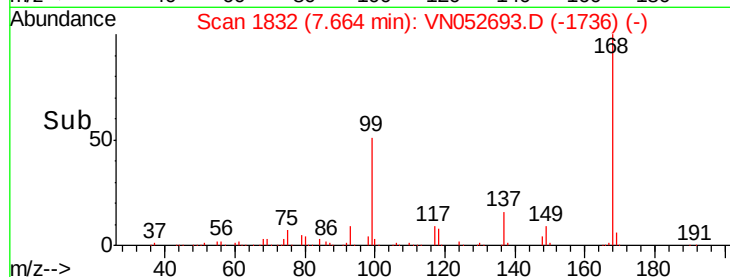
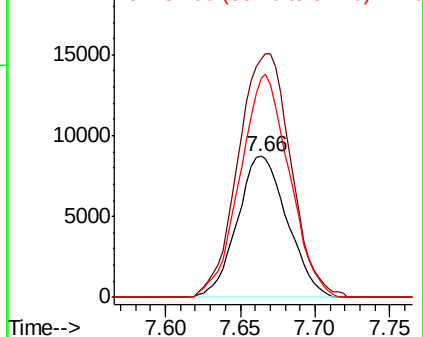
#31
Cyclohexane
Concen: 0.564 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052693.D
Acq: 6 Dec 2018 11:57

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 20246
Ion Ratio Lower Upper
56 100
69 169.0 25.8 38.6#
84 155.1 65.3 97.9#

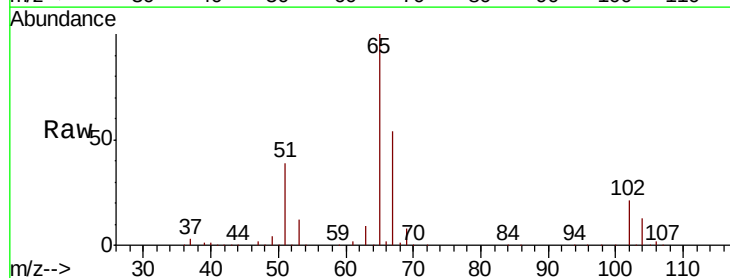


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

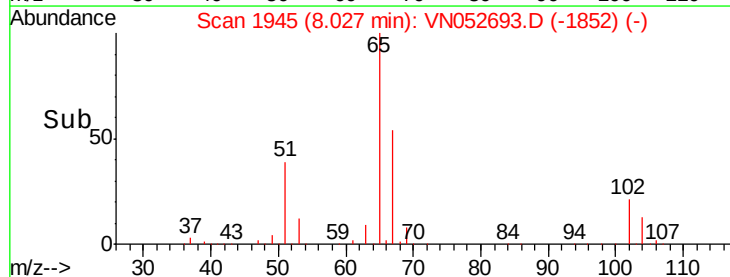
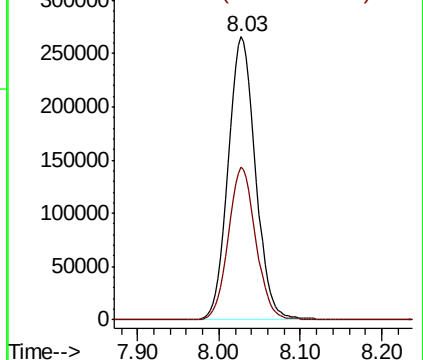


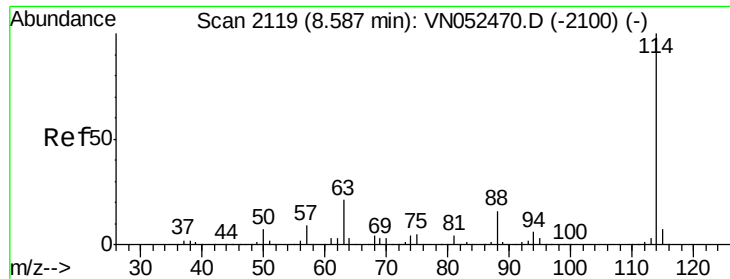
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN052693.D
Acq: 6 Dec 2018 11:57

Tgt Ion: 65 Resp: 625742
Ion Ratio Lower Upper
65 100
67 54.1 0.0 109.8



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

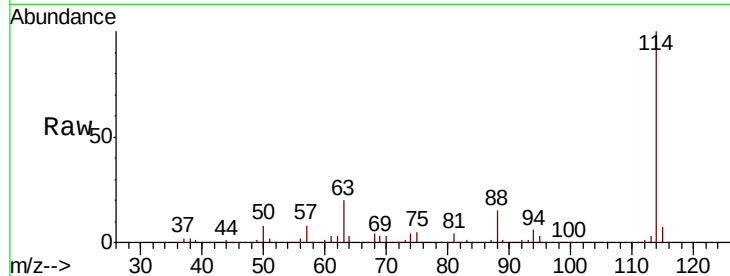




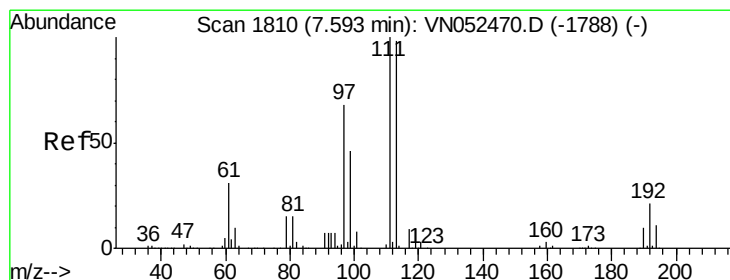
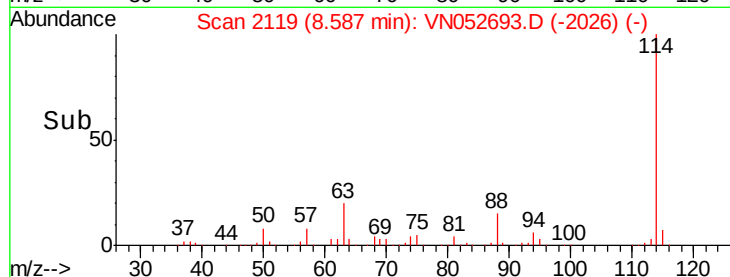
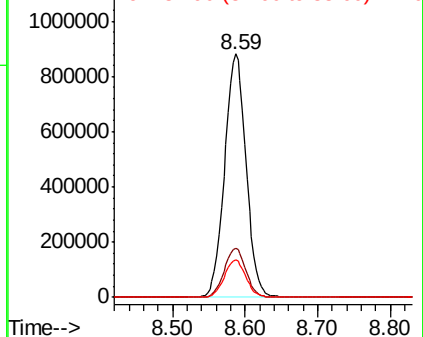
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052693.D
 Acq: 6 Dec 2018 11:57

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1811966
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 41.8
 88 15.2 0.0 31.6

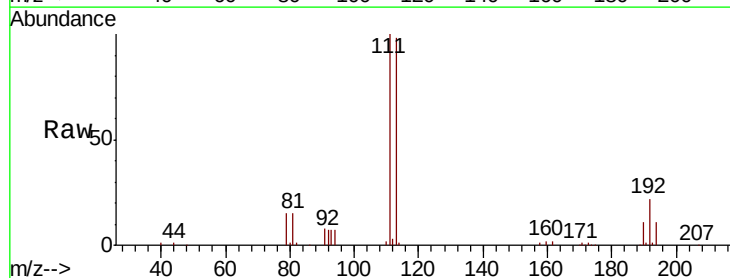


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

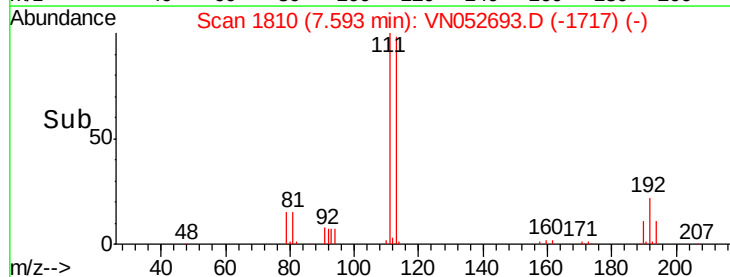
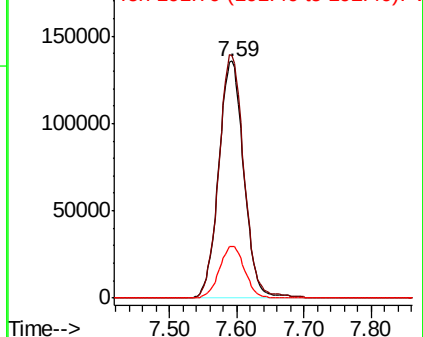


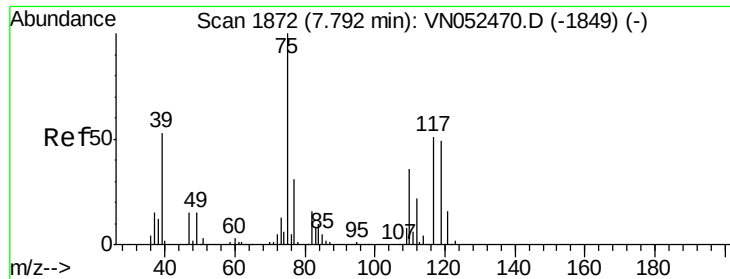
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052693.D
 Acq: 6 Dec 2018 11:57

Tgt Ion:113 Resp: 354696
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.0 123.0
 192 21.9 17.0 25.6



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





#36

1,1-Dichloropropene

Concen: 4.739 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

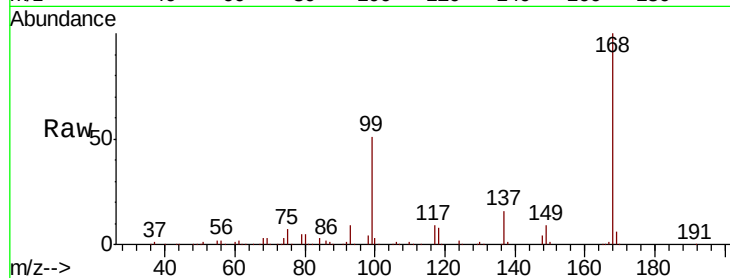
Tot Ion: 75 Resp: 81094

Ion Ratio Lower Upper

75 100

110 8.0 17.5 52.6#

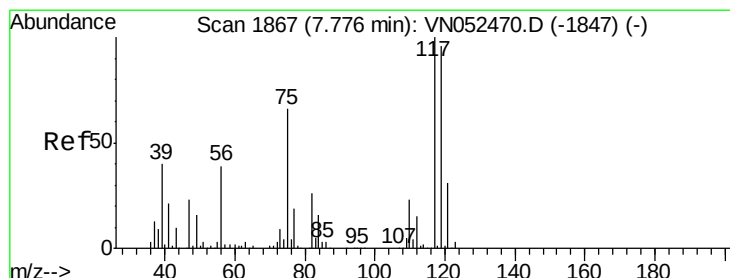
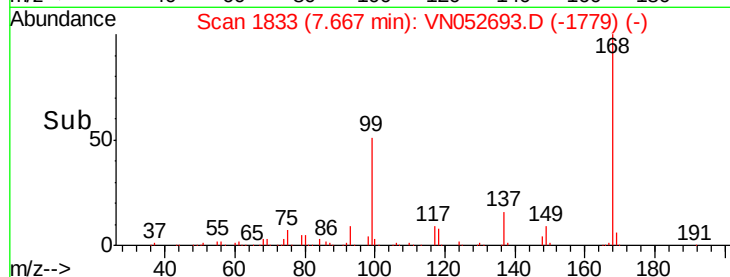
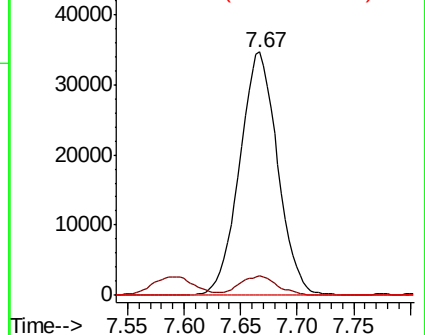
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN052470.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN052470.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN052470.D (-1849) (-)



#38

Carbon Tetrachloride

Concen: 6.697 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

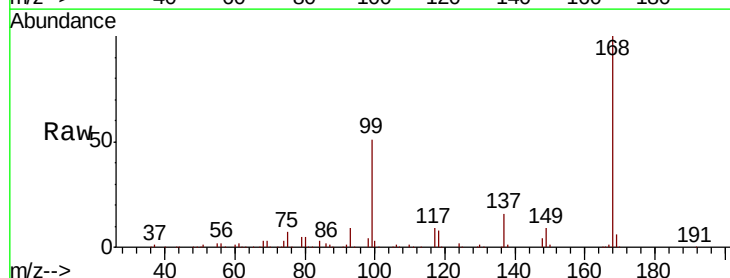
Tgt Ion: 117 Resp: 103742

Ion Ratio Lower Upper

117 100

119 5.1 76.8 115.2#

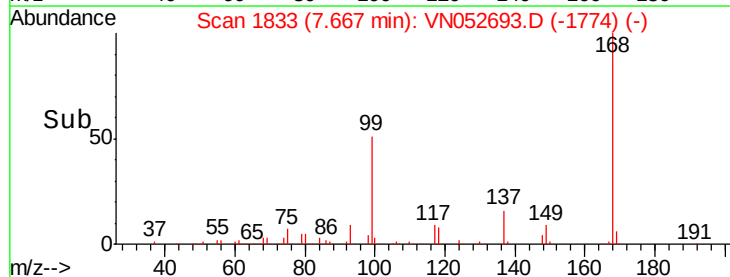
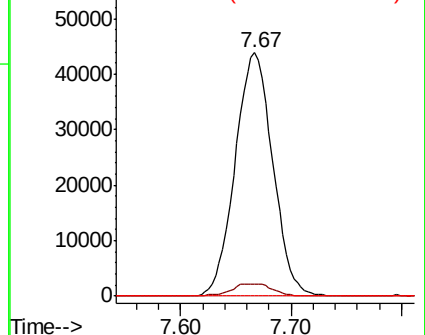
121 0.0 24.9 37.3#

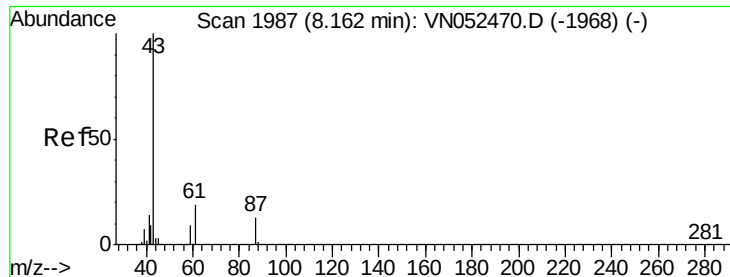


Abundance Ion 116.80 (116.50 to 117.50): VN052470.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN052470.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN052470.D (-1847) (-)





#43

Isopropyl Acetate

Concen: 1.037 ug/l

RT: 8.25 min Scan# 2013

Delta R.T. 0.08 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

Instrument :

MSVOA_N

ClientSampled :

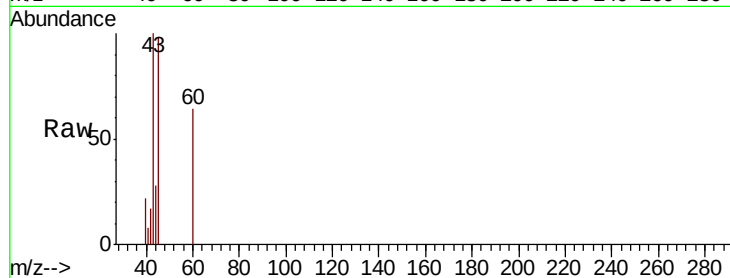
Tot Ion: 43 Resp: 18334

Ion Ratio Lower Upper

43 100

61 0.0 24.1 36.1#

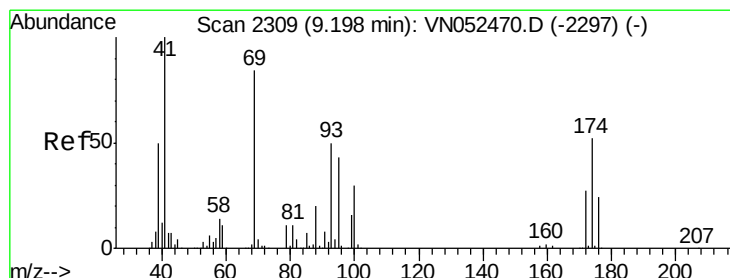
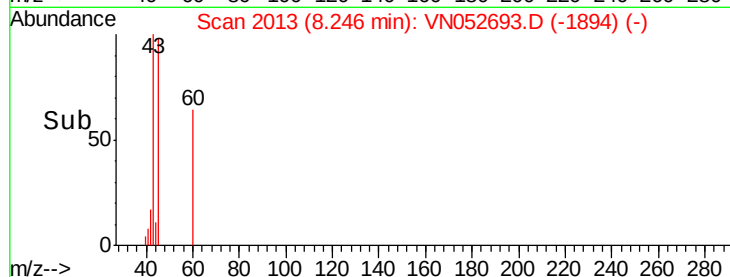
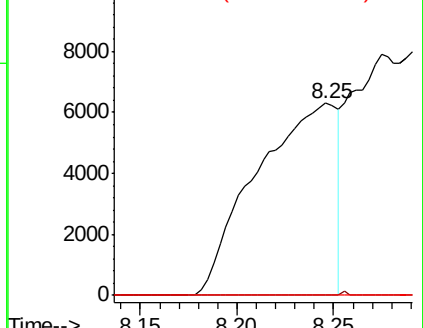
87 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN052470.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN052470.D (-1968) (-)



#48

Methyl methacrylate

Concen: 1.797 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

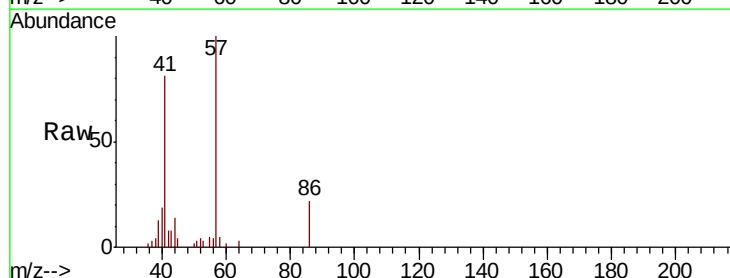
Tgt Ion: 41 Resp: 16559

Ion Ratio Lower Upper

41 100

69 0.0 70.0 105.0#

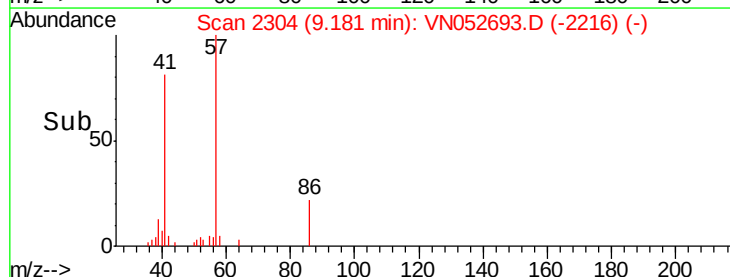
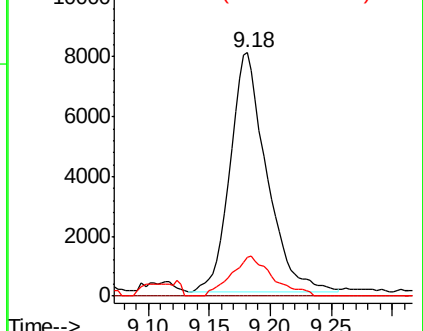
39 18.8 42.6 64.0#

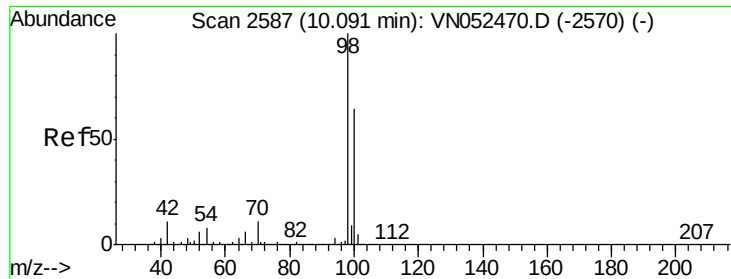


Abundance Ion 41.00 (40.70 to 41.70): VN052470.D (-2297) (-)

Ion 69.00 (68.70 to 69.70): VN052470.D (-2297) (-)

Ion 39.00 (38.70 to 39.70): VN052470.D (-2297) (-)





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

Instrument :

MSVOA_N

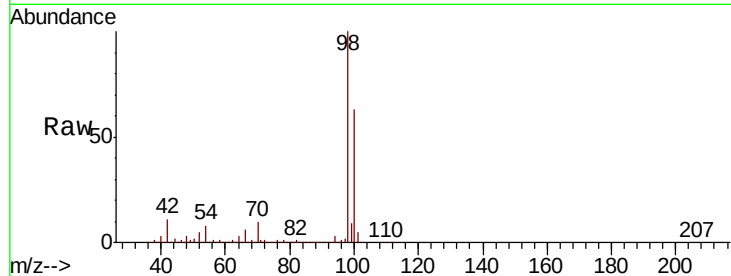
ClientSampled :

Tot Ion: 98 Resp: 2199416

Ion Ratio Lower Upper

98 100

100 63.5 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN052470.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052470.D (-2570) (-)

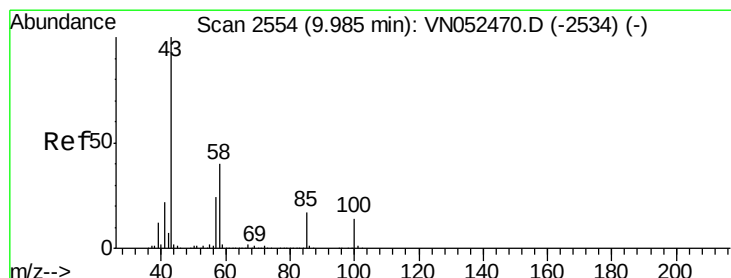
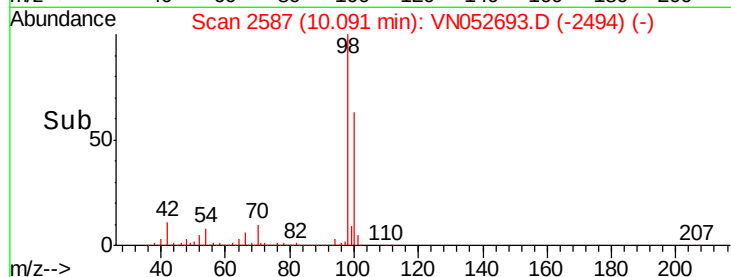
10.09

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.659 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN052693.D

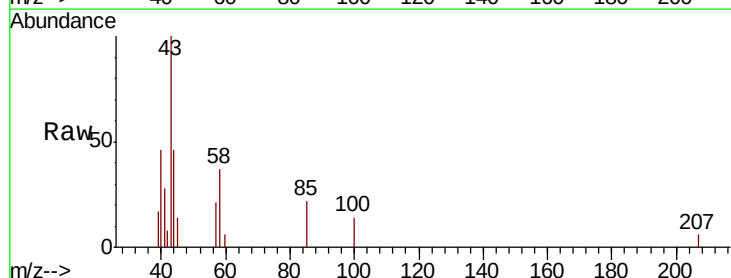
Acq: 6 Dec 2018 11:57

Tgt Ion: 43 Resp: 6539

Ion Ratio Lower Upper

43 100

58 35.9 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN052470.D (-2534) (-)

9.99

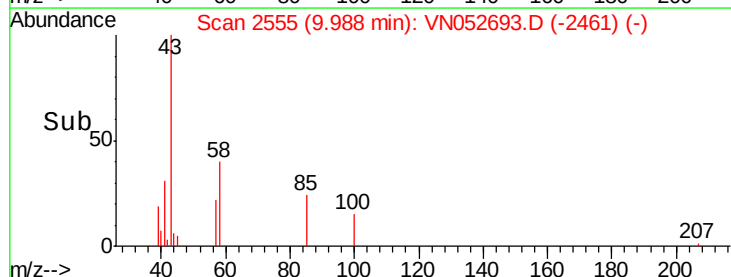
3000

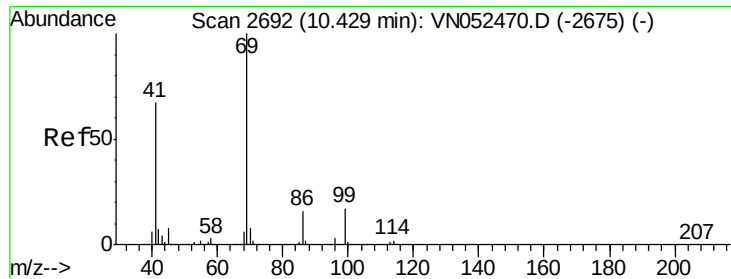
2000

1000

0

Time-->

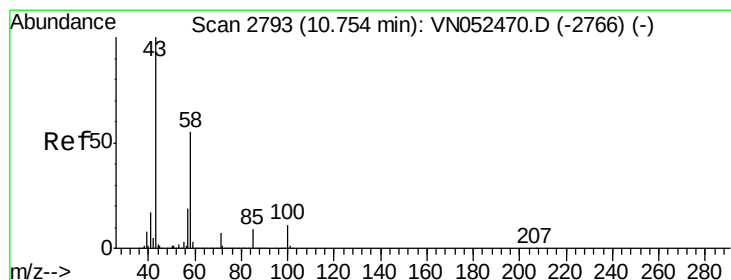
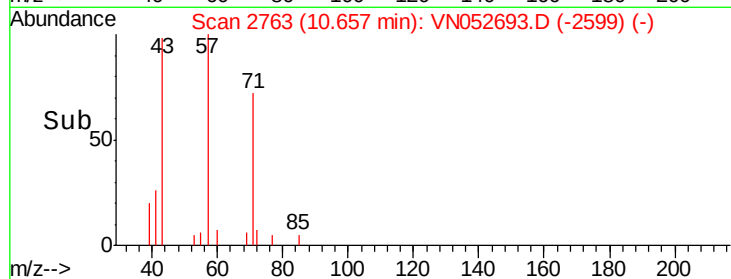
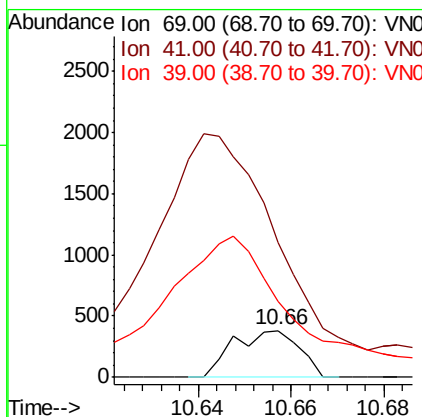
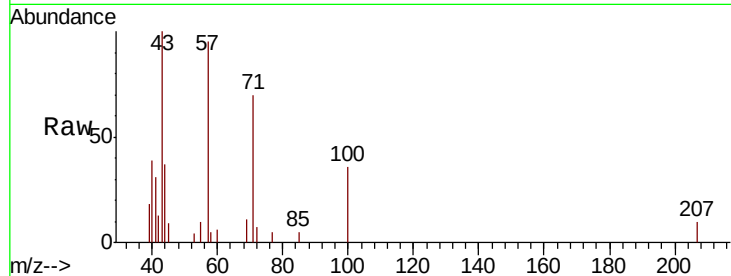




#56
Ethyl methacrylate
Concen: 2.717 ug/l
RT: 10.66 min Scan# 2763
Delta R.T. 0.23 min
Lab File: VN052693.D
Acq: 6 Dec 2018 11:57

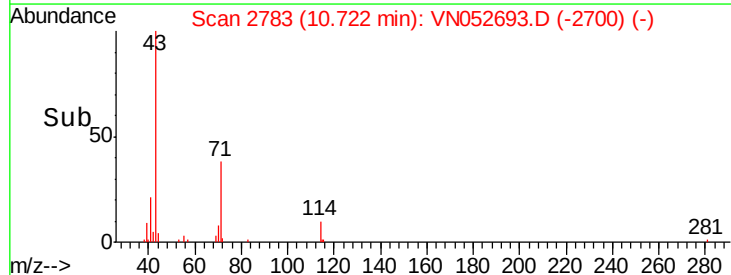
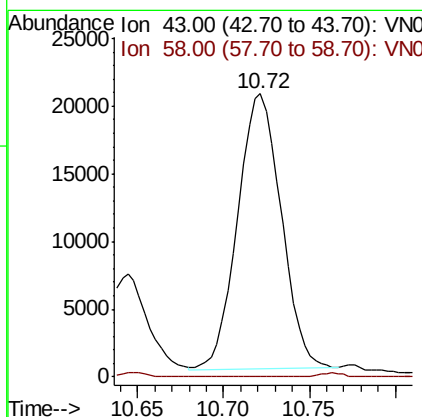
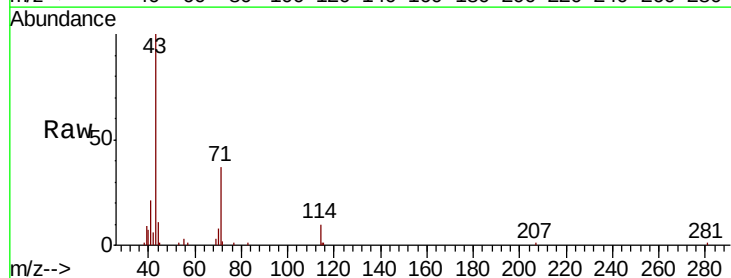
Instrument :
MSVOA_N
ClientSampled :

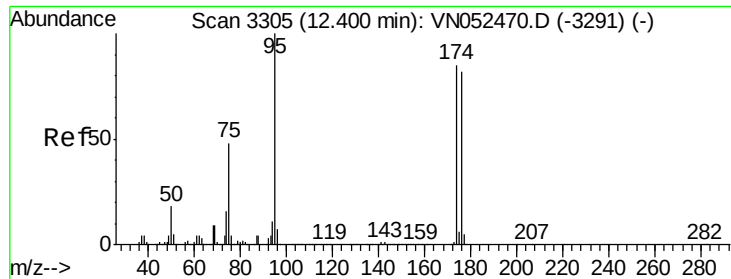
Tot Ion: 69 Resp: 377
Ion Ratio Lower Upper
69 100
41 1053.3 52.6 79.0#
39 589.4 25.9 38.9#



#59
2-Hexanone
Concen: 5.413 ug/l
RT: 10.72 min Scan# 2783
Delta R.T. -0.03 min
Lab File: VN052693.D
Acq: 6 Dec 2018 11:57

Tgt Ion: 43 Resp: 36024
Ion Ratio Lower Upper
43 100
58 0.0 27.4 82.0#

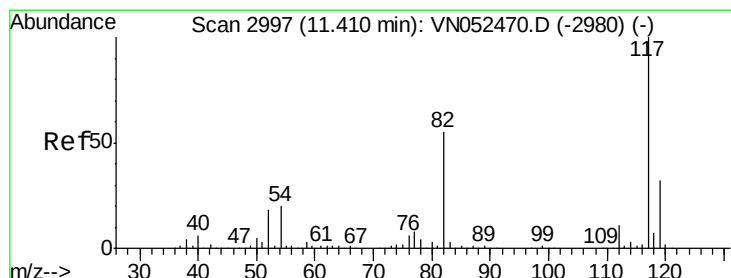
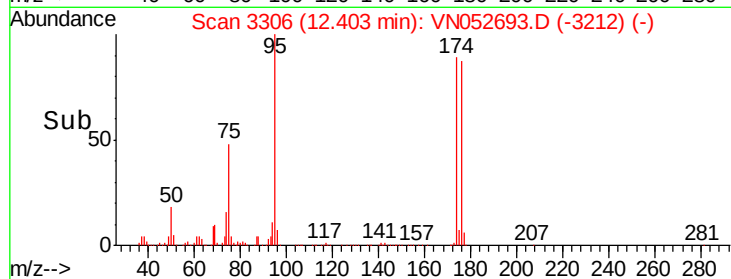
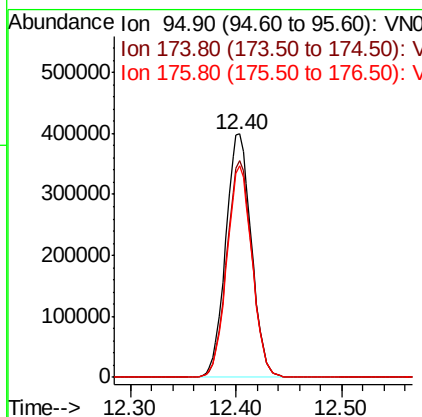
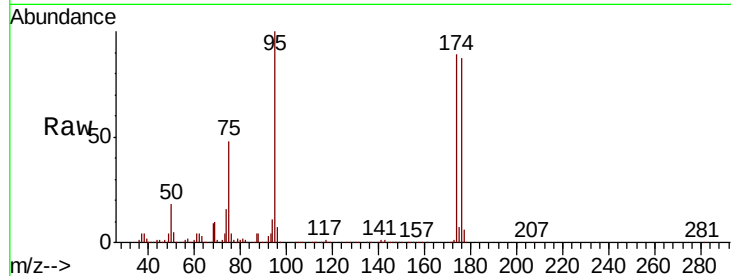




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052693.D
Acq: 6 Dec 2018 11:57

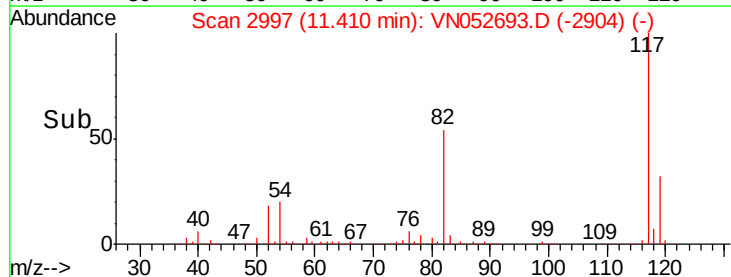
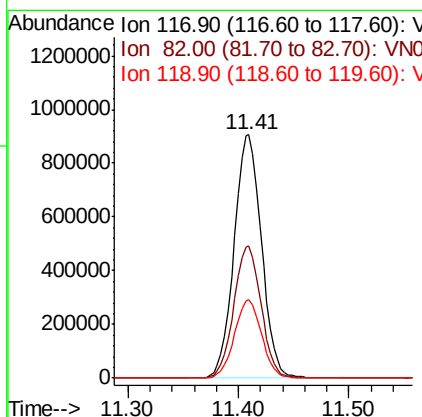
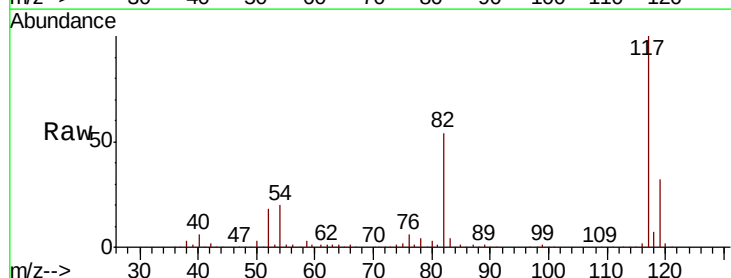
Instrument :
MSVOA_N
ClientSampled :

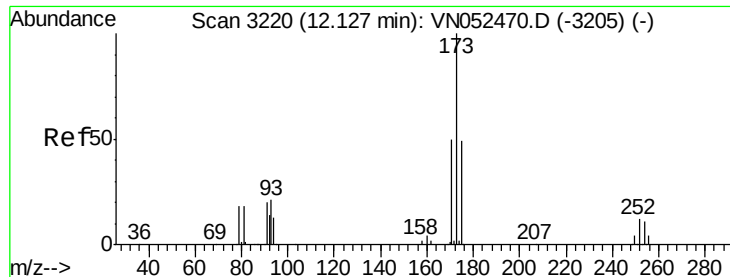
Tot Ion: 95 Resp: 669875
Ion Ratio Lower Upper
95 100
174 87.9 0.0 173.0
176 85.2 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. -0.00 min
Lab File: VN052693.D
Acq: 6 Dec 2018 11:57

Tgt Ion: 117 Resp: 1557452
Ion Ratio Lower Upper
117 100
82 54.1 43.6 65.4
119 32.1 25.4 38.2





#71

Bromoform

Concen: 0.514 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

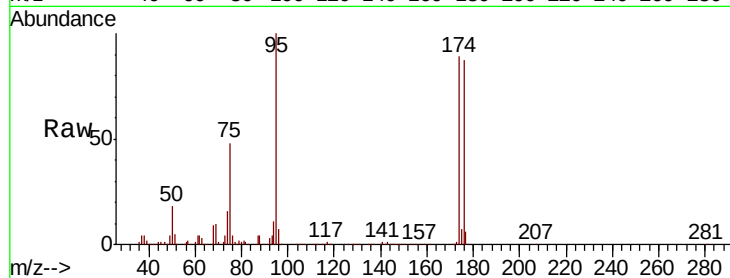
Tot Ion:173 Resp: 3799

Ion Ratio Lower Upper

173 100

175 965.9 24.4 73.2#

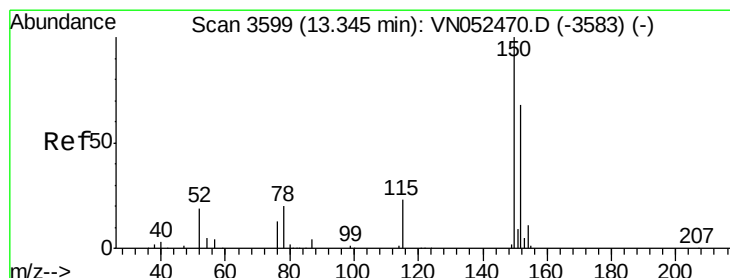
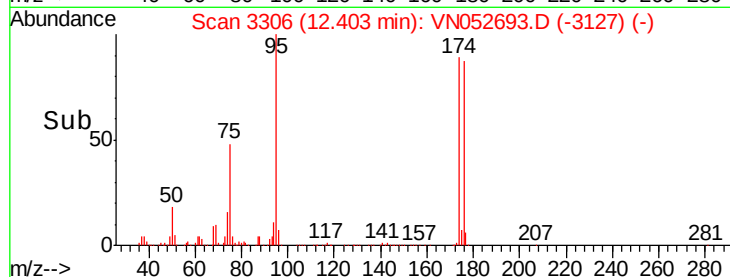
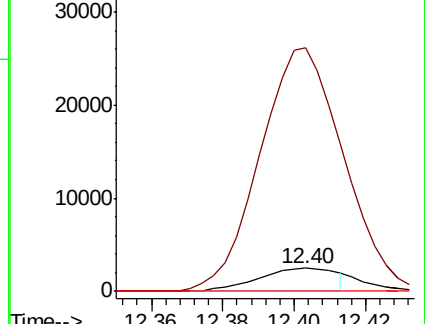
254 0.0 0.1 0.1#



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# 3599

Delta R.T. -0.00 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

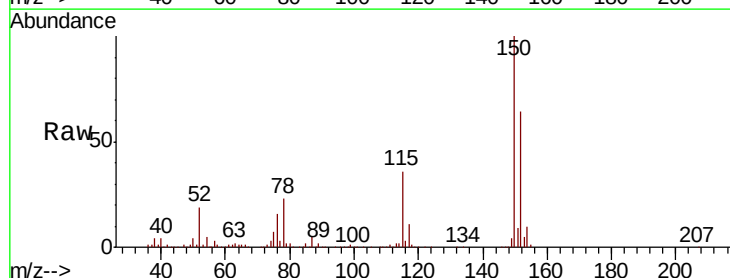
Tgt Ion:152 Resp: 559055

Ion Ratio Lower Upper

152 100

115 56.7 28.4 85.2

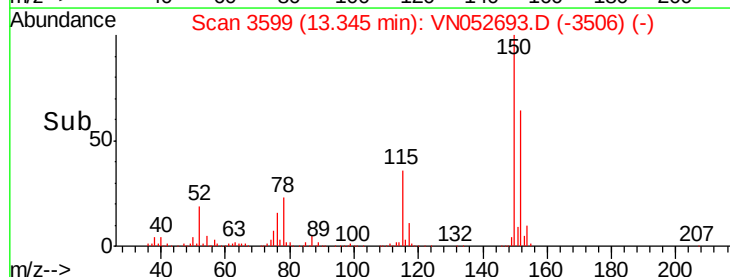
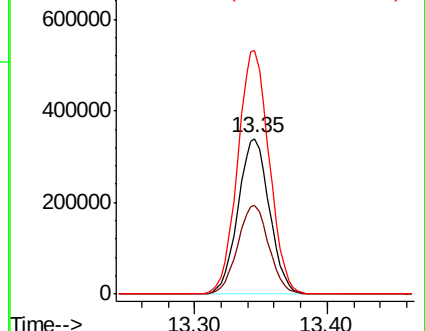
150 157.0 0.0 346.0

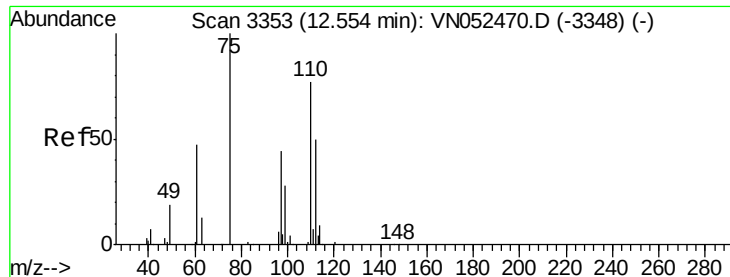


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.933 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

Instrument :

MSVOA_N

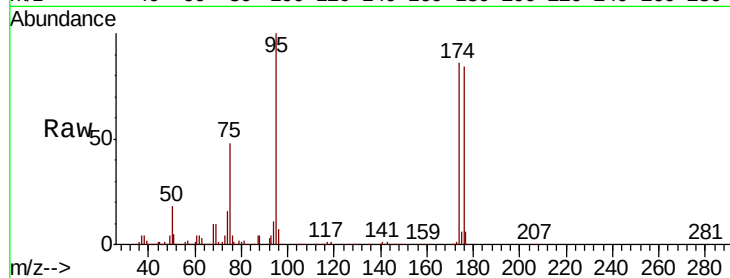
ClientSampleId :

Tot Ion: 75 Resp: 318398

Ion Ratio Lower Upper

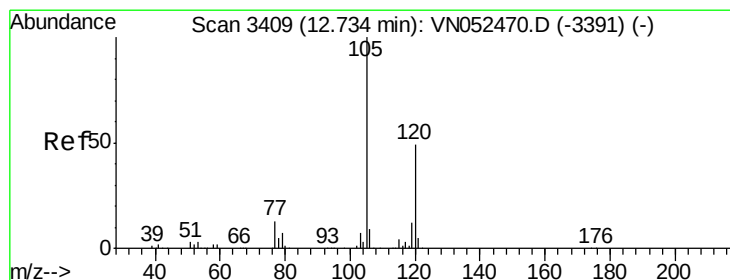
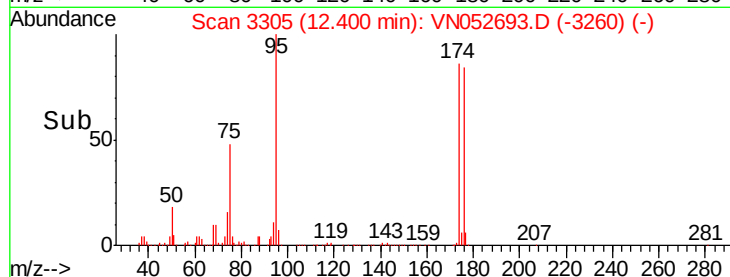
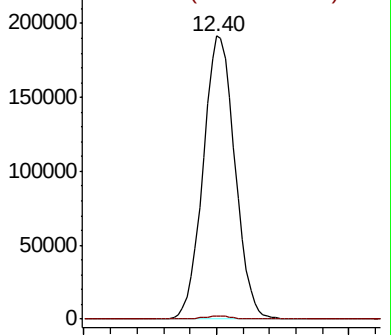
75 100

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: 0.227 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN052693.D

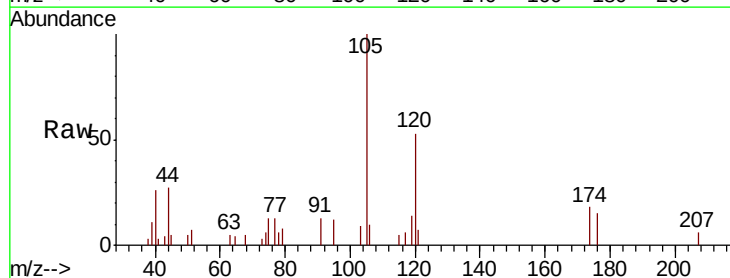
Acq: 6 Dec 2018 11:57

Tgt Ion: 105 Resp: 7956

Ion Ratio Lower Upper

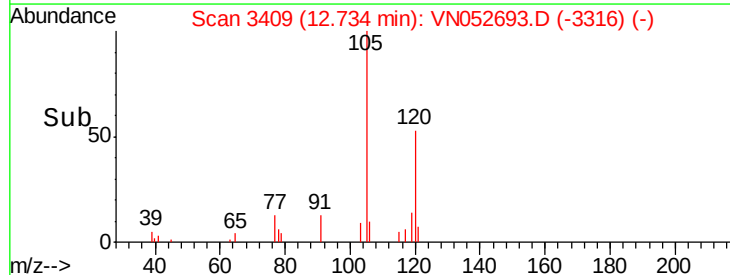
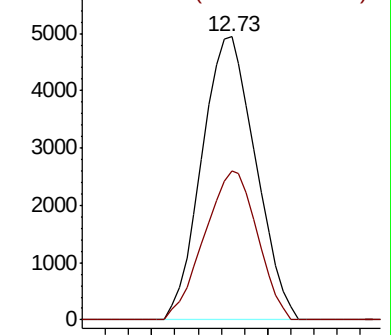
105 100

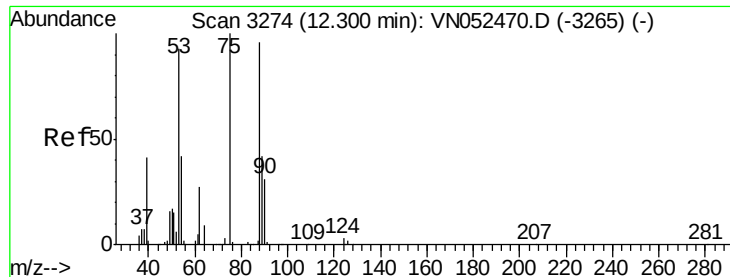
120 51.6 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 123.339 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

Instrument :

MSVOA_N

ClientSampled :

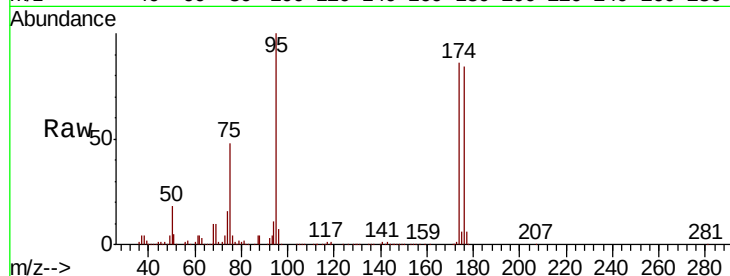
Tot Ion: 75 Resp: 318398

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

89 0.0 35.4 53.2#

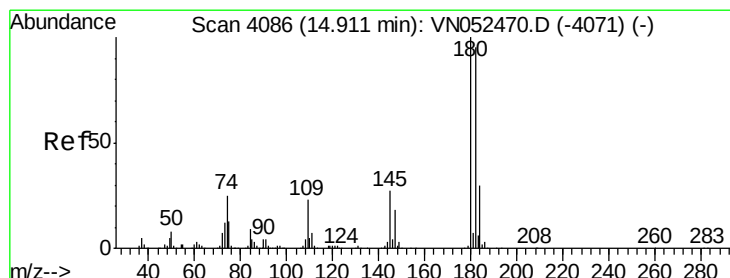
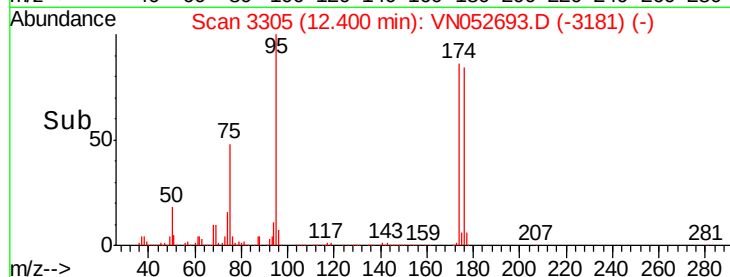
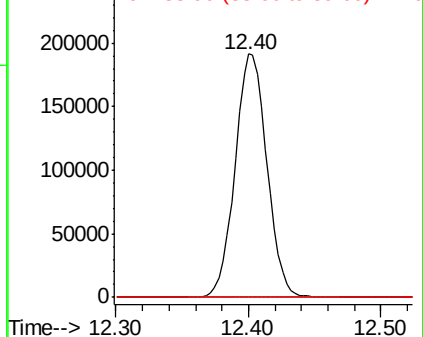


Abundance

Ion 74.90 (74.60 to 75.60): VN052470.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN052470.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN052470.D (-3265) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.883 ug/l

RT: 14.90 min Scan# 4083

Delta R.T. -0.01 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

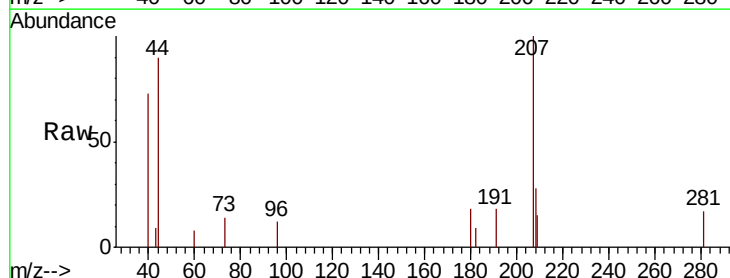
Tgt Ion: 180 Resp: 561

Ion Ratio Lower Upper

180 100

182 17.3 47.8 143.4#

145 0.0 14.1 42.3#

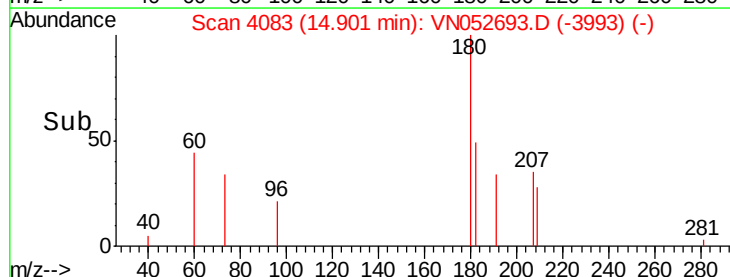
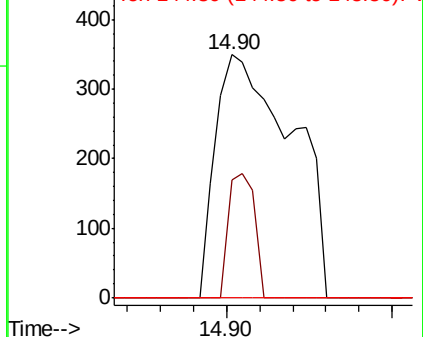


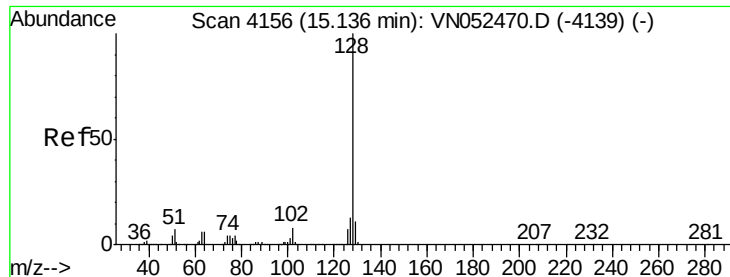
Abundance

Ion 179.80 (179.50 to 180.50): VN052470.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN052470.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN052470.D (-4071) (-)





#95

Naphthalene

Concen: 3.482 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.01 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

Instrument :

MSVOA_N

ClientSampleId :

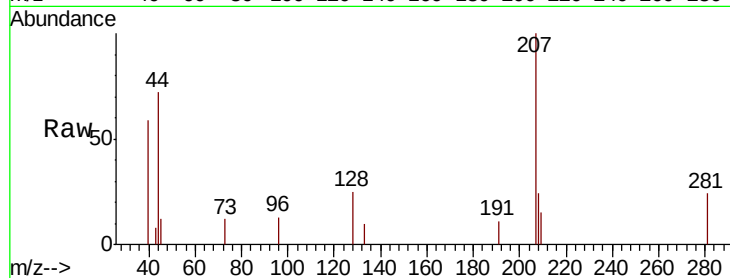
Tot Ion:128 Resp: 1202

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

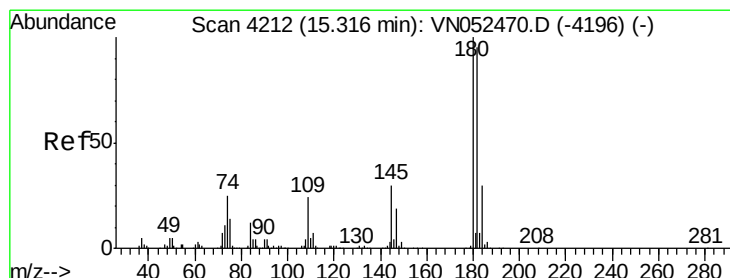
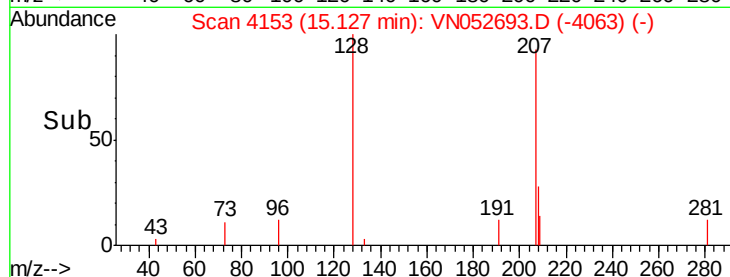
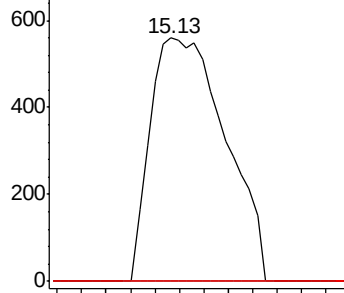
129 0.0 8.7 13.1#



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: 2.757 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN052693.D

Acq: 6 Dec 2018 11:57

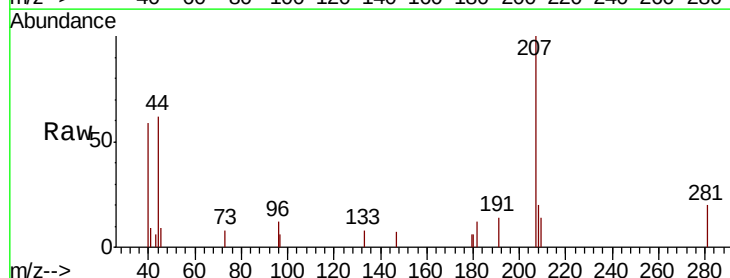
Tgt Ion:180 Resp: 289

Ion Ratio Lower Upper

180 100

182 117.3 47.8 143.3

145 0.0 15.2 45.5#



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

