

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041419\
 Data File : VN055030.D
 Acq On : 13 Apr 2019 15:28
 Operator : JC/SP
 Sample : K2397-17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3

Quant Time: Apr 14 03:25:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Apr 13 03:34:24 2019
 Response via : Initial Calibration

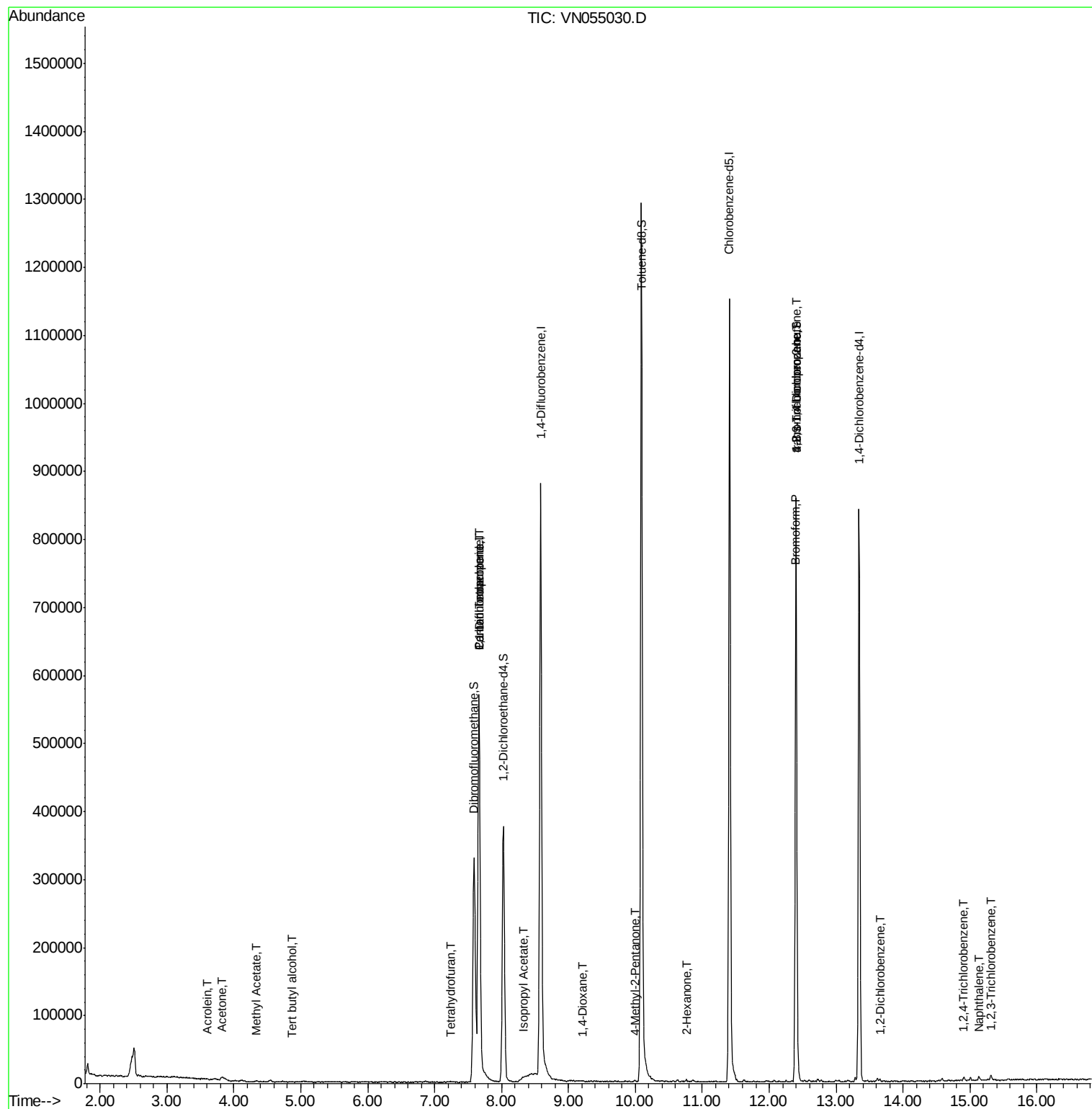
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	508659	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	796529	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	675014	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	229999	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	317288	49.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.42%	
35) Dibromofluoromethane	7.59	113	250008	49.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.48%	
50) Toluene-d8	10.09	98	956027	51.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.52%	
62) 4-Bromofluorobenzene	12.40	95	289000	46.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.00%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.86	59	90	0.229	ug/l #	72
13) Acrolein	3.59	56	202	0.426	ug/l #	30
16) Acetone	3.83	43	5099	2.908	ug/l	94
18) Methyl Acetate	4.34	43	3405	0.626	ug/l #	72
20) Methylene Chloride	4.53	84	571	Below Cal	#	62
29) Tetrahydrofuran	7.23	42	579	0.327	ug/l #	63
31) Cyclohexane	7.67	56	9950	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	37901	5.149	ug/l #	50
38) Carbon Tetrachloride	7.66	117	45506	6.567	ug/l #	17
43) Isopropyl Acetate	8.33	43	8914	0.943	ug/l #	64
49) 1,4-Dioxane	9.21	88	258	4.928	ug/l #	62
51) 4-Methyl-2-Pentanone	9.99	43	1748	0.316	ug/l #	79
59) 2-Hexanone	10.76	43	2740	0.792	ug/l	86
71) Bromoform	12.38	173	160	2.631	ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	145566	34.401	ug/l #	100
77) Bromobenzene	12.53	156	438	Below Cal		75
81) trans-1,4-Dichloro-2-buten	12.40	75	145566	141.991	ug/l #	2
91) 1,2-Dichlorobenzene	13.65	146	1724	0.227	ug/l	86
93) 1,2,4-Trichlorobenzene	14.91	180	1925	4.006	ug/l	86
94) Hexachlorobutadiene	15.00	225	1256	Below Cal		80
95) Naphthalene	15.13	128	5247	5.217	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.32	180	2703	0.790	ug/l	87

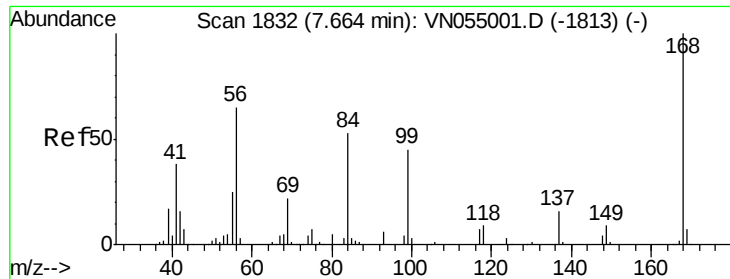
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN055030.D
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Quant Time: Apr 14 03:25:09 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N041319W.M
Quant Title : SW846 8260
QLast Update : Sat Apr 13 03:34:24 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

Instrument :

MSVOA_N

ClientSampled :

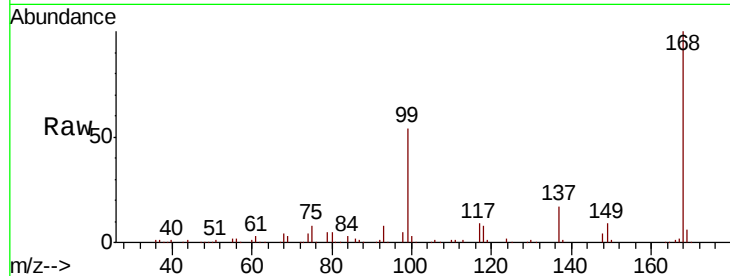
TP-3

Tot Ion:168 Resp: 508659

Ion Ratio Lower Upper

168 100

99 53.8 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): VN055030.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN055030.D (-1739) (-)

7.66

200000

150000

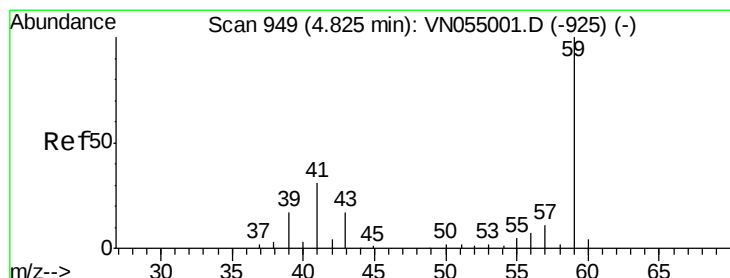
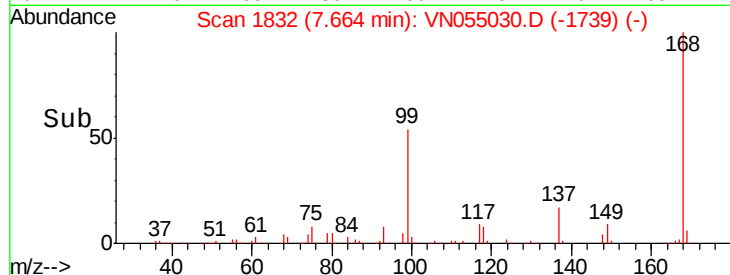
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.229 ug/l

RT: 4.86 min Scan# 960

Delta R.T. 0.04 min

Lab File: VN055030.D

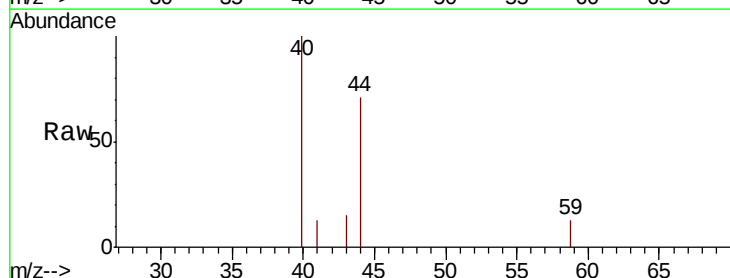
Acq: 13 Apr 2019 15:28

Tgt Ion: 59 Resp: 90

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN055030.D (-856) (-)

Ion 57.00 (56.70 to 57.70): VN055030.D (-856) (-)

4.86

150

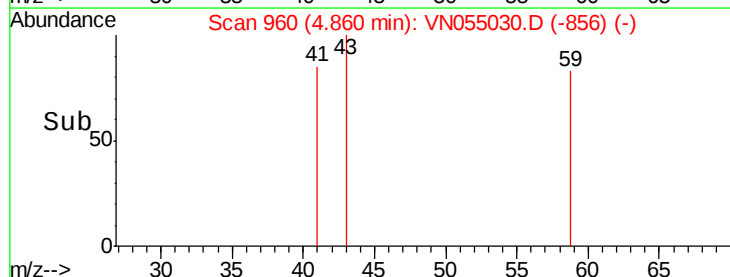
100

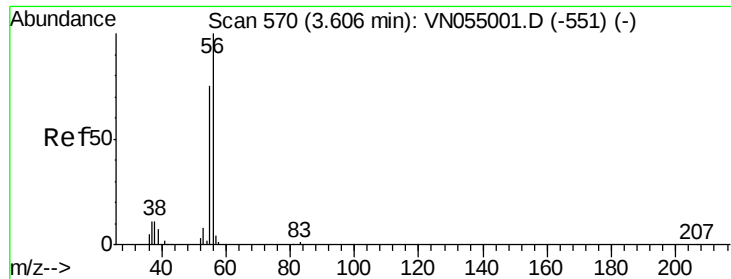
50

0

4.84 4.85 4.86 4.87

Time-->





#13

Acrolein

Concen: 0.426 ug/l

RT: 3.59 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

Instrument :

MSVOA_N

ClientSampled :

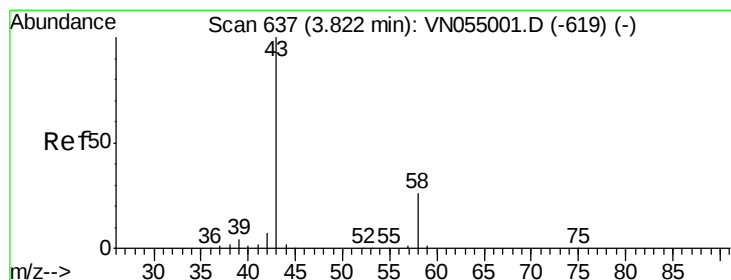
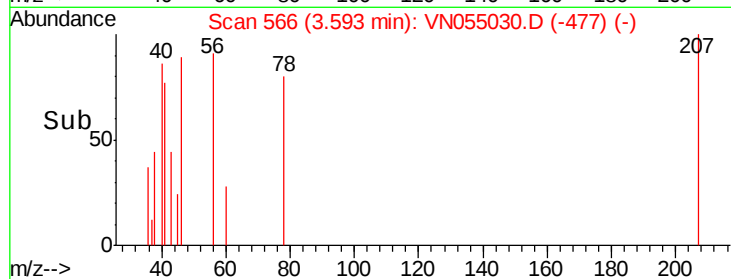
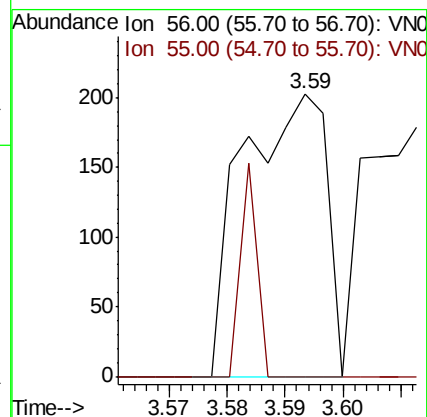
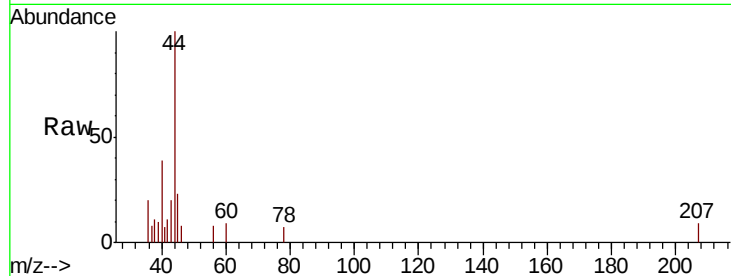
TP-3

Tot Ion: 56 Resp: 202

Ion Ratio Lower Upper

56 100

55 14.9 59.5 89.3#



#16

Acetone

Concen: 2.908 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN055030.D

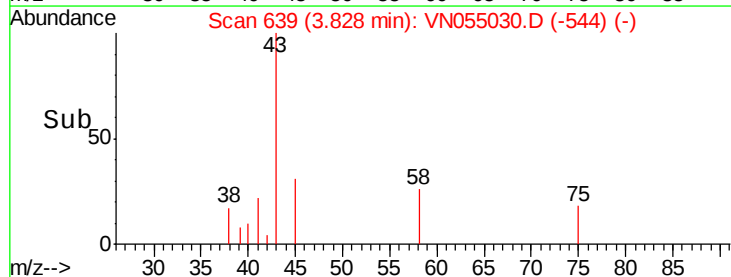
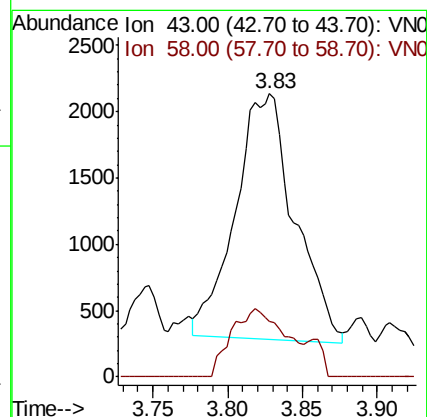
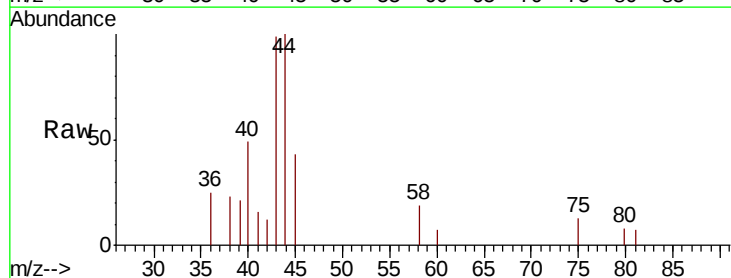
Acq: 13 Apr 2019 15:28

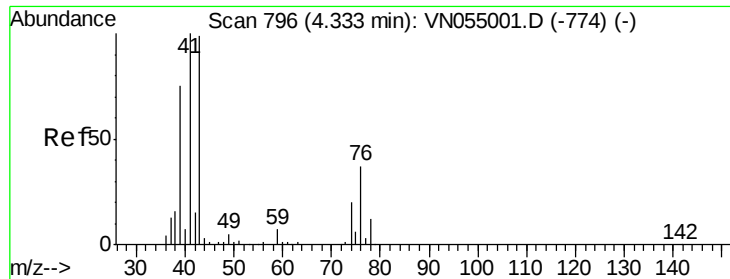
Tgt Ion: 43 Resp: 5099

Ion Ratio Lower Upper

43 100

58 23.2 20.9 31.3





#18

Methyl Acetate

Concen: 0.626 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.00 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

Instrument :

MSVOA_N

ClientSampled :

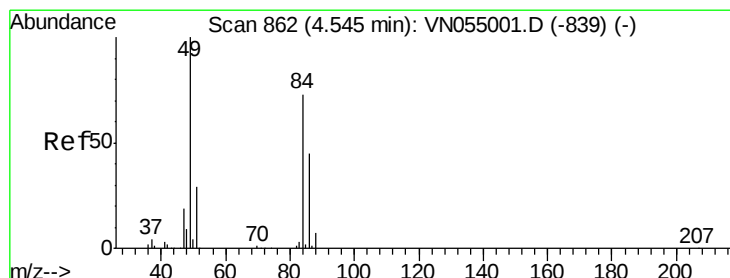
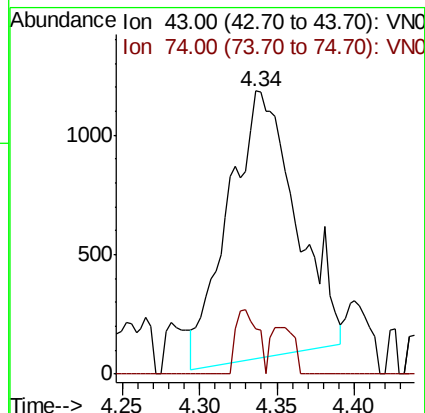
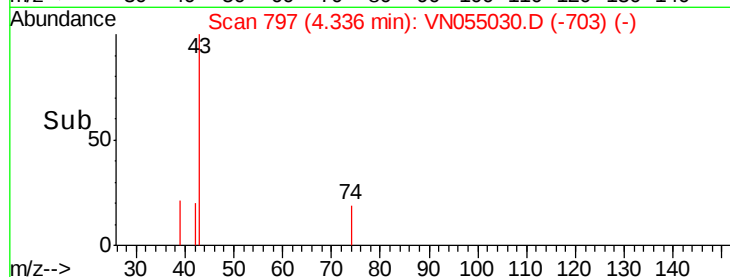
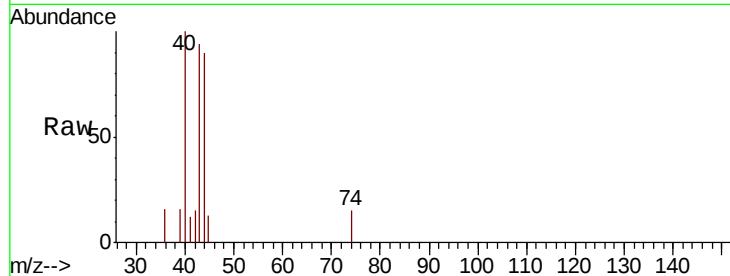
TP-3

Tot Ion: 43 Resp: 3405

Ion Ratio Lower Upper

43 100

74 7.4 16.1 24.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.53 min Scan# 857

Delta R.T. -0.02 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

Tgt Ion: 84 Resp: 571

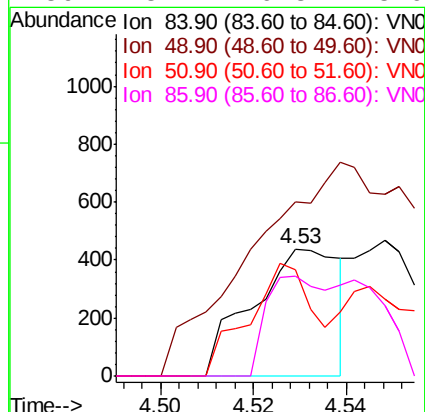
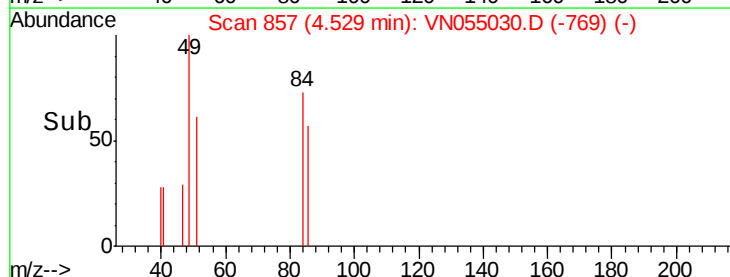
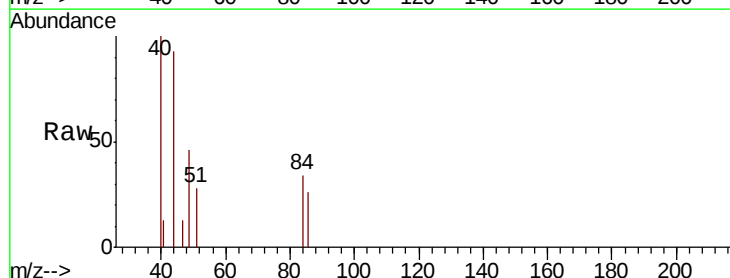
Ion Ratio Lower Upper

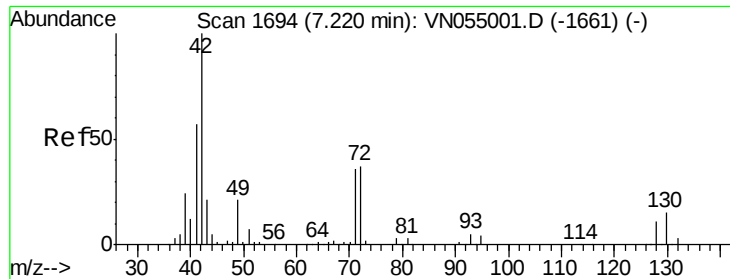
84 100

49 92.3 109.4 164.2#

51 83.1 32.2 48.4#

86 78.1 49.3 73.9#





#29

Tetrahydrofuran

Concen: 0.327 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

TP-3

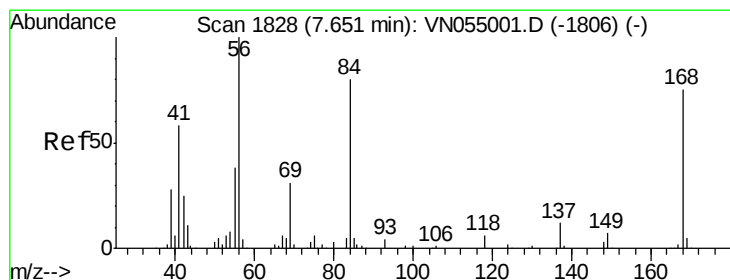
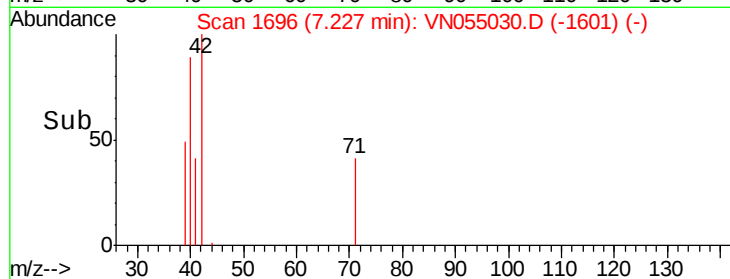
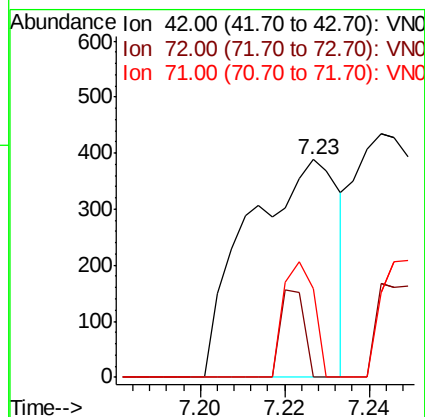
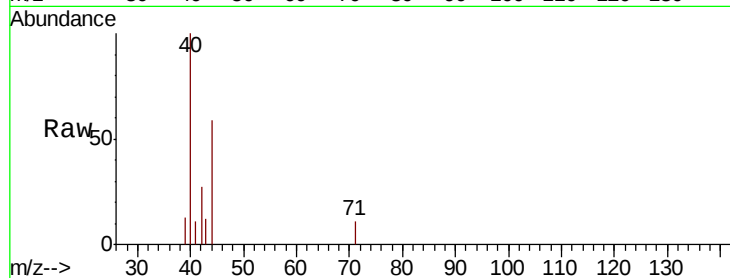
Tot Ion: 42 Resp: 579

Ion Ratio Lower Upper

42 100

72 10.2 29.4 44.0#

71 17.8 27.8 41.6#



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

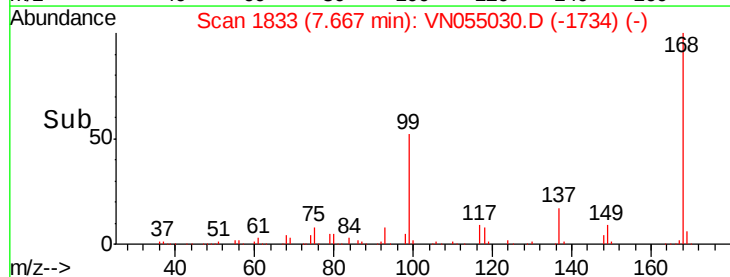
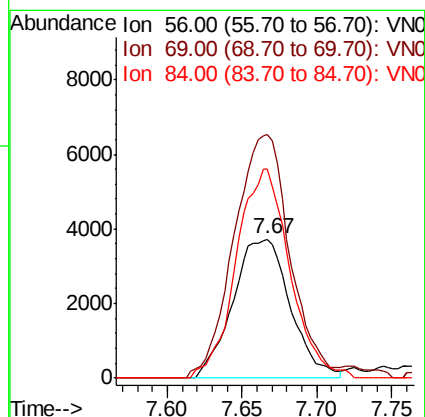
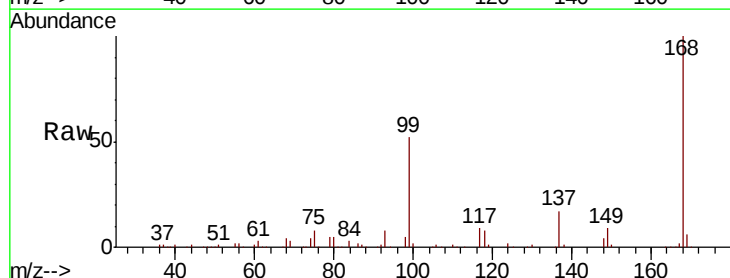
Tgt Ion: 56 Resp: 9950

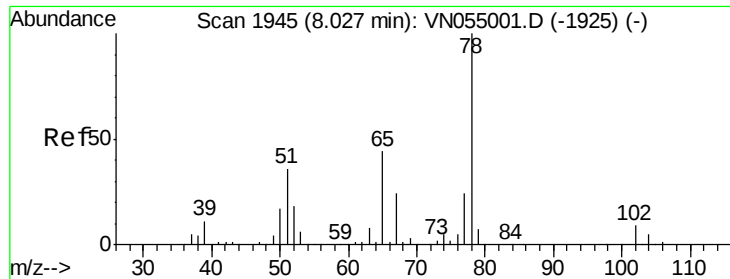
Ion Ratio Lower Upper

56 100

69 170.4 24.5 36.7#

84 150.4 62.9 94.3#

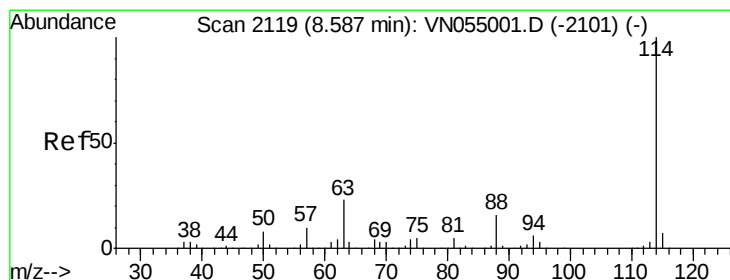
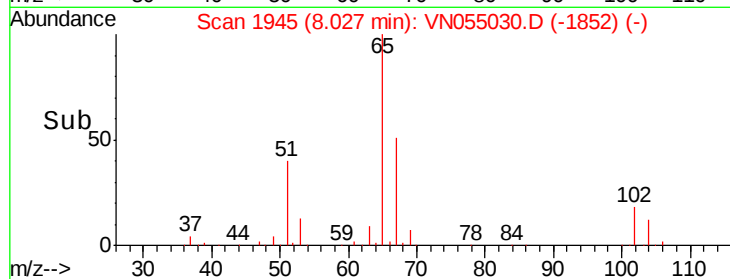
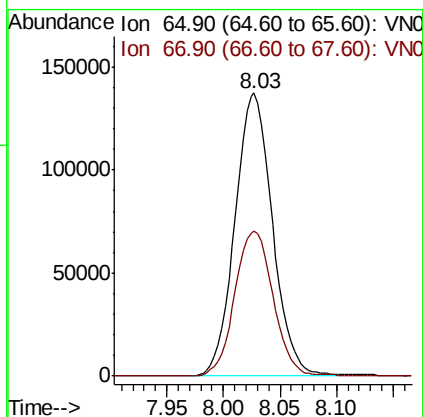
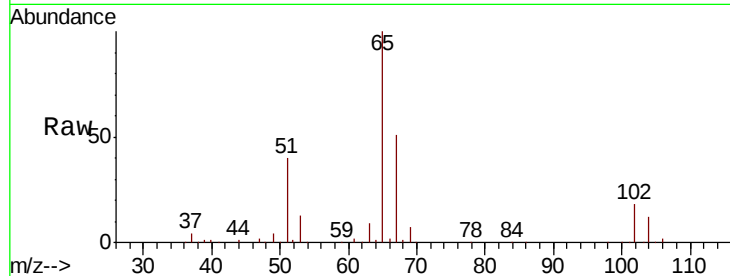




#33
 1,2-Dichloroethane-d4
 Concen: 49.706 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055030.D
 Acq: 13 Apr 2019 15:28

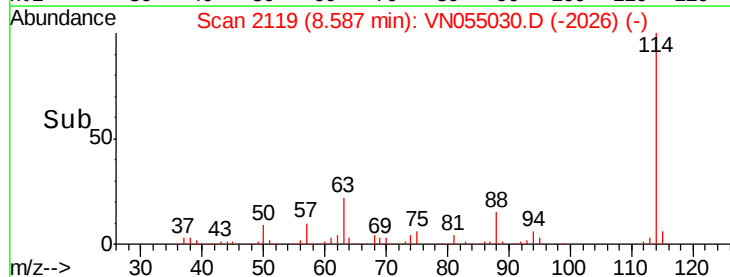
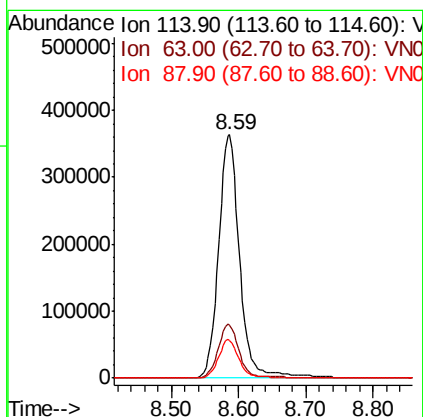
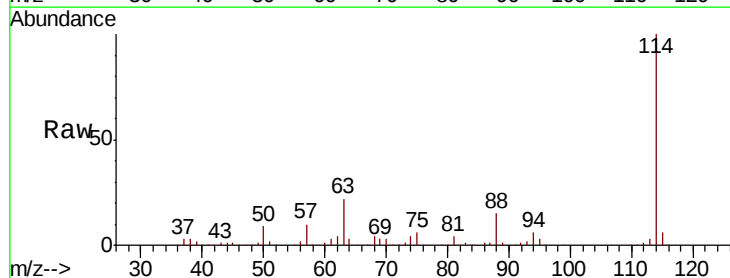
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-3

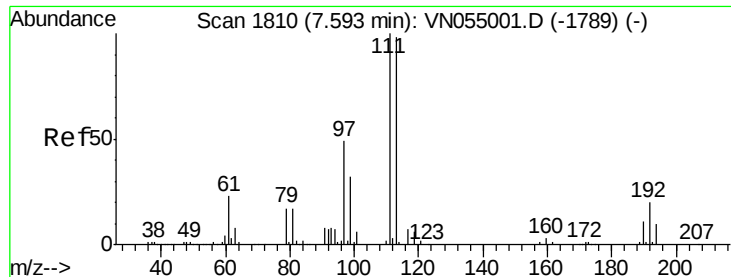
Tot Ion: 65 Resp: 317288
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055030.D
 Acq: 13 Apr 2019 15:28

Tgt Ion: 114 Resp: 796529
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 45.2
 88 15.4 0.0 31.8

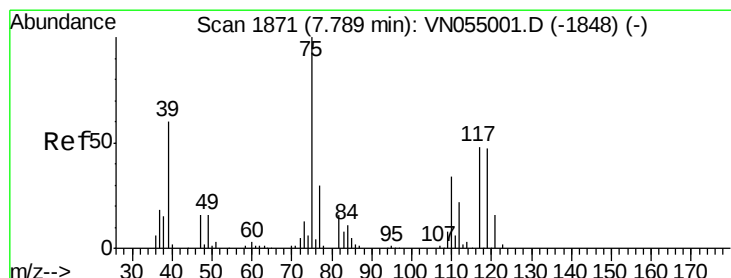
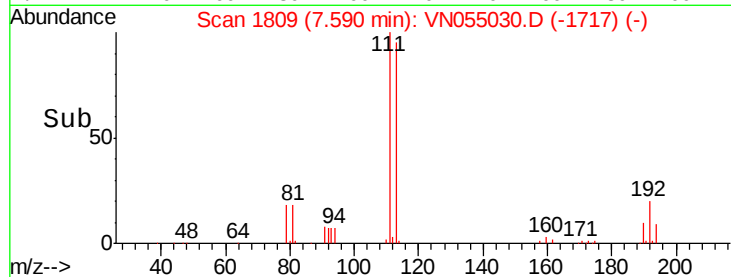
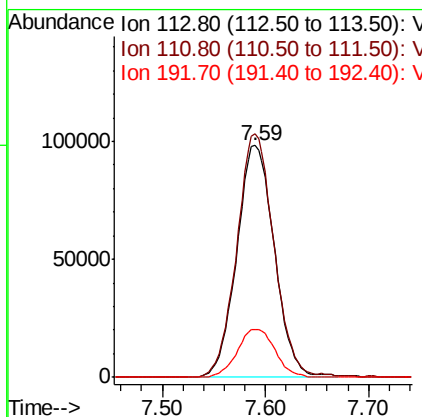
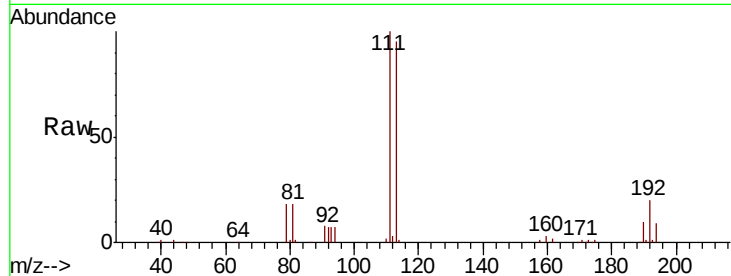




#35
 Dibromofluoromethane
 Concen: 49.237 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN055030.D
 Acq: 13 Apr 2019 15:28

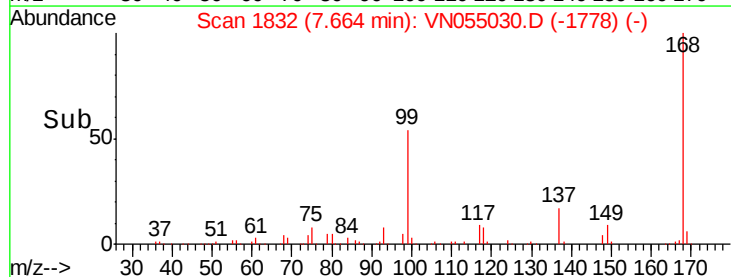
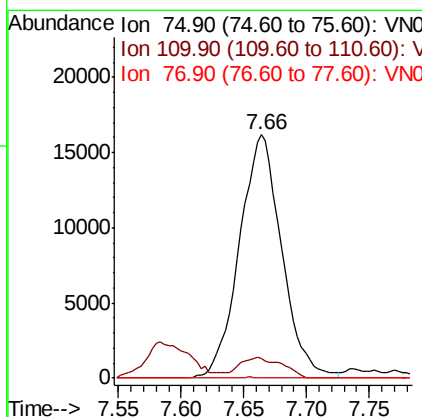
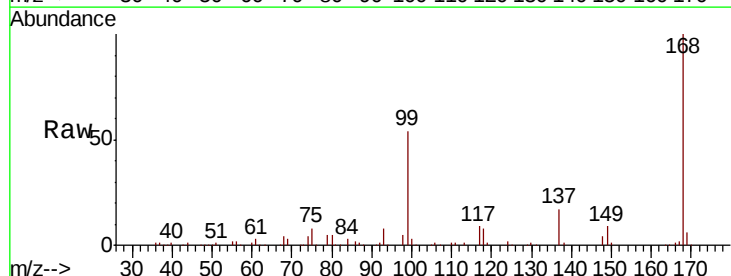
Instrument :
 MSVOA_N
 ClientSampled :
 TP-3

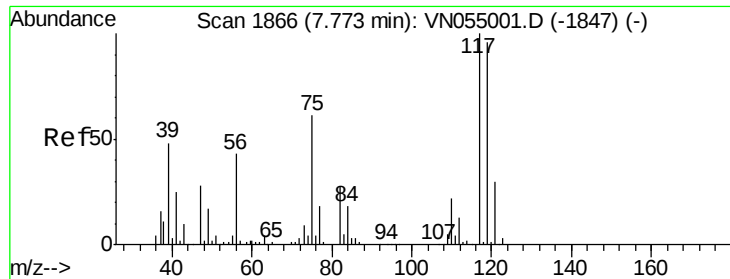
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.1	123.1
192	20.9	16.5	24.7



#36
 1,1-Dichloropropene
 Concen: 5.149 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055030.D
 Acq: 13 Apr 2019 15:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	17.5	52.5#
77	0.1	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.567 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

Instrument :

MSVOA_N

ClientSampled :

TP-3

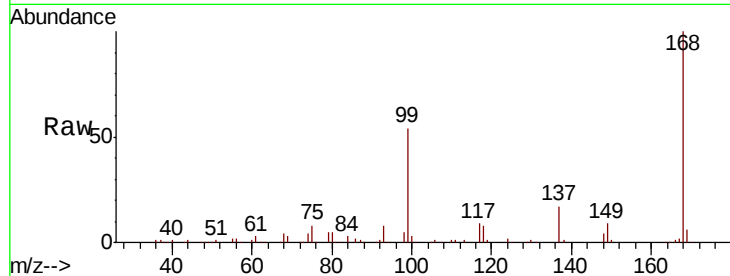
Tot Ion:117 Resp: 45506

Ion Ratio Lower Upper

117 100

119 5.9 76.3 114.5#

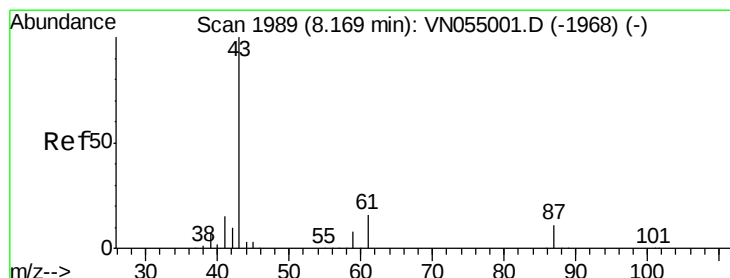
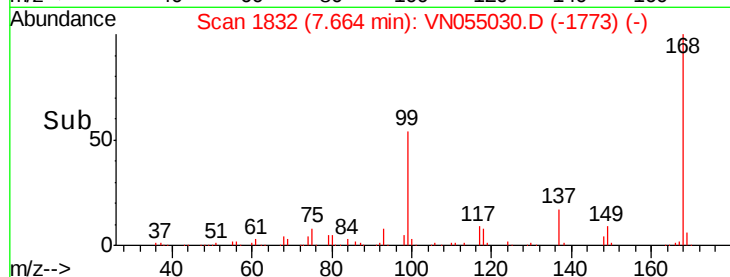
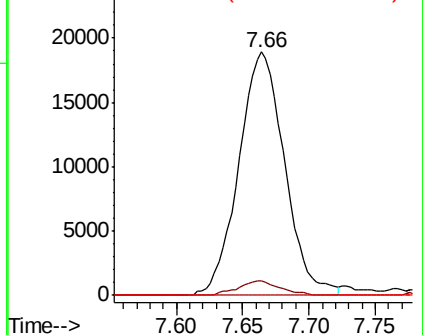
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.943 ug/l

RT: 8.33 min Scan# 2039

Delta R.T. 0.16 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

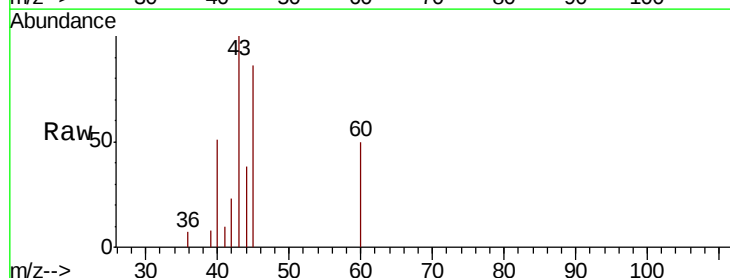
Tgt Ion: 43 Resp: 8914

Ion Ratio Lower Upper

43 100

61 0.0 14.3 21.5#

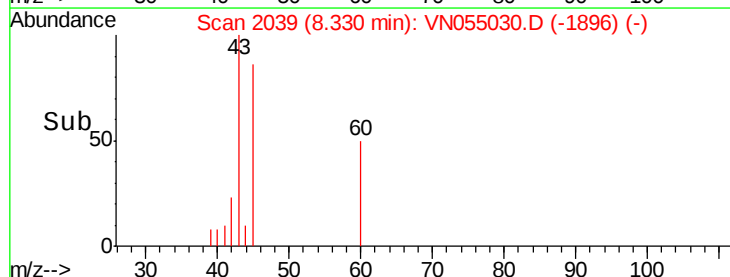
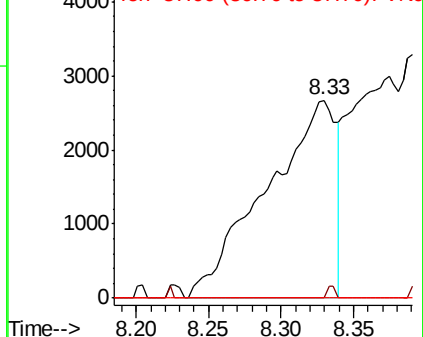
87 0.0 8.6 13.0#

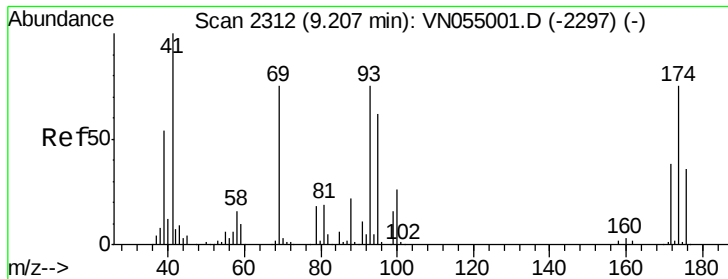


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#49

1,4-Dioxane

Concen: 4.928 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

TP-3

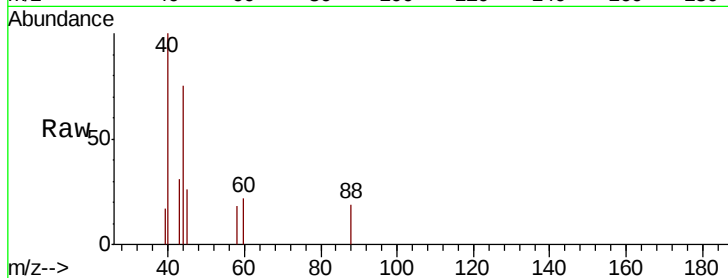
Tot Ion: 88 Resp: 258

Ion Ratio Lower Upper

88 100

43 79.8 31.8 47.8#

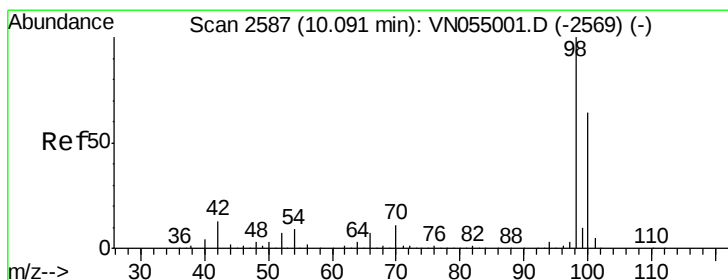
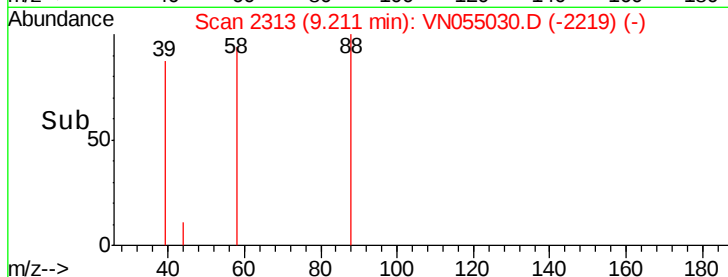
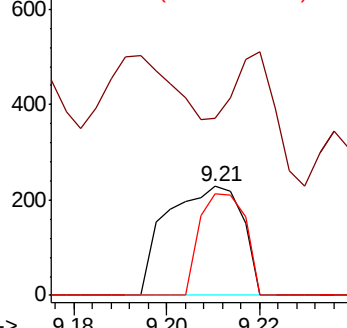
58 56.6 61.6 92.4#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 51.263 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055030.D

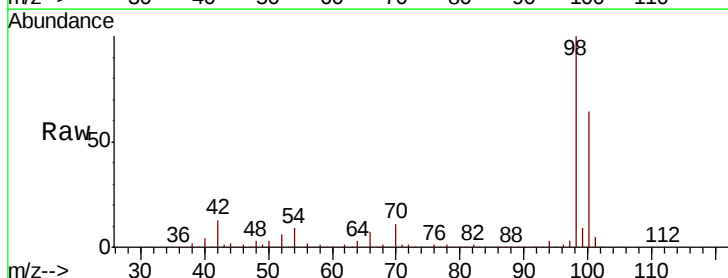
Acq: 13 Apr 2019 15:28

Tgt Ion: 98 Resp: 956027

Ion Ratio Lower Upper

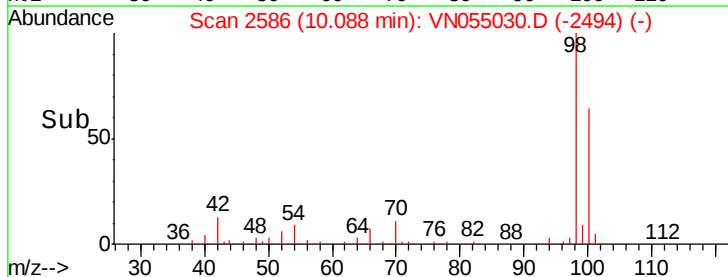
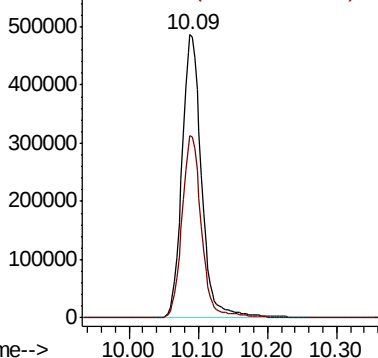
98 100

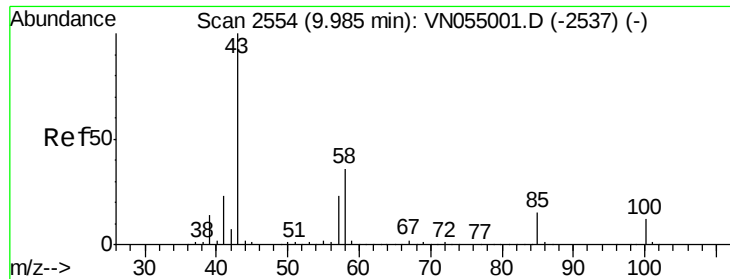
100 63.8 51.1 76.7



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: 0.316 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

Instrument :

MSVOA_N

ClientSampled :

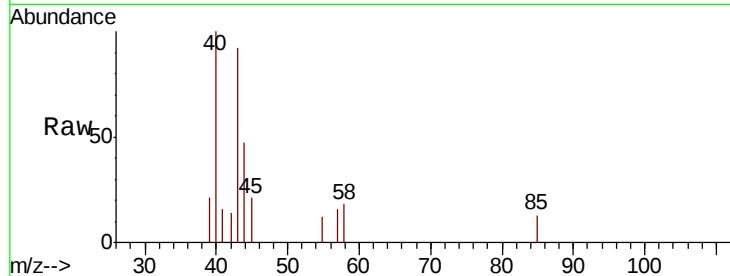
TP-3

Tot Ion: 43 Resp: 1748

Ion Ratio Lower Upper

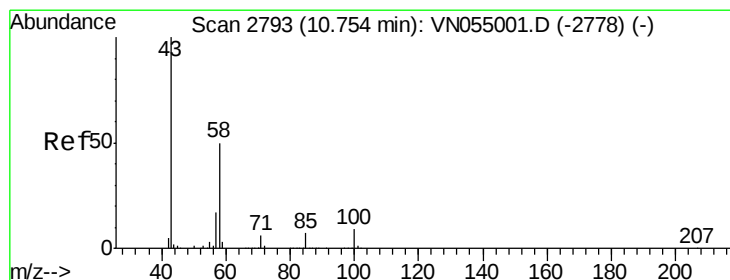
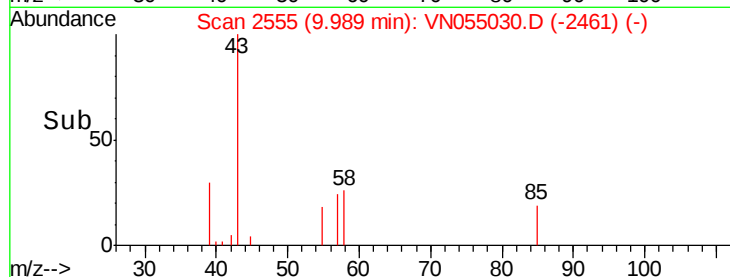
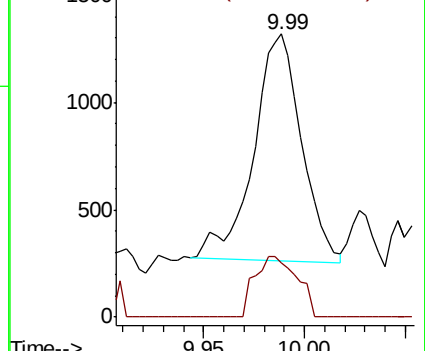
43 100

58 23.8 29.0 43.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#59

2-Hexanone

Concen: 0.792 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN055030.D

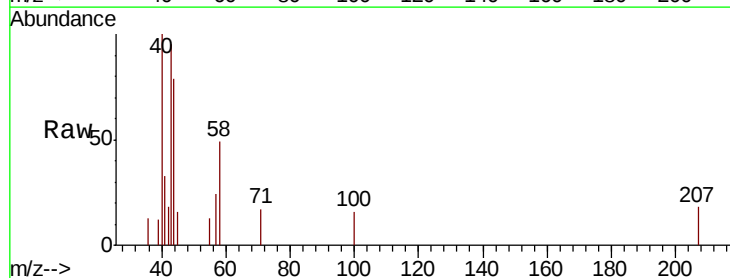
Acq: 13 Apr 2019 15:28

Tgt Ion: 43 Resp: 2740

Ion Ratio Lower Upper

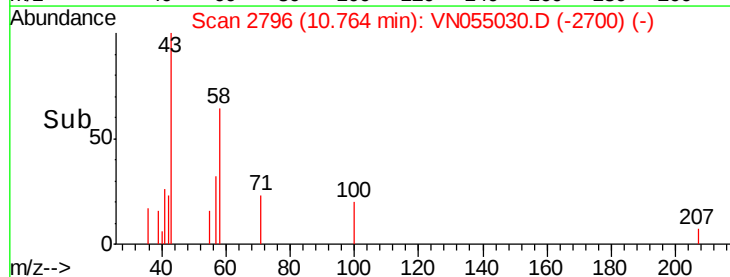
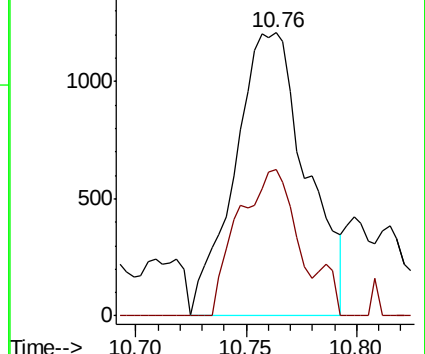
43 100

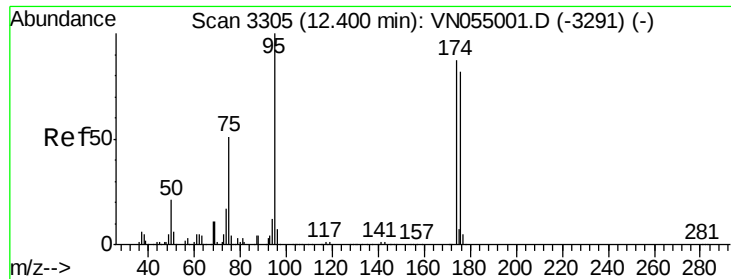
58 40.8 25.1 75.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 46.004 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

TP-3

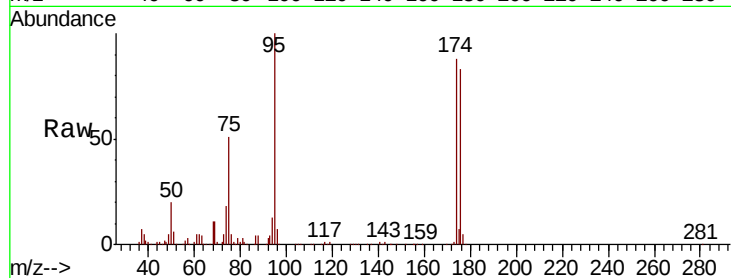
Tot Ion: 95 Resp: 289000

Ion Ratio Lower Upper

95 100

174 86.6 0.0 174.4

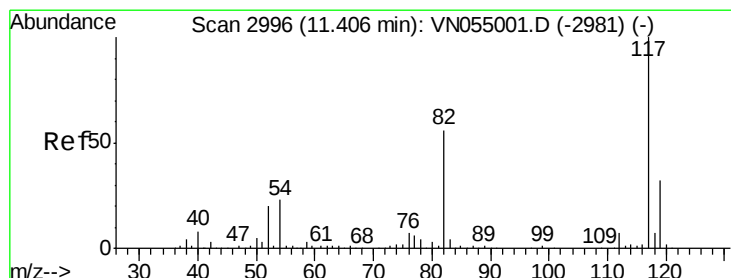
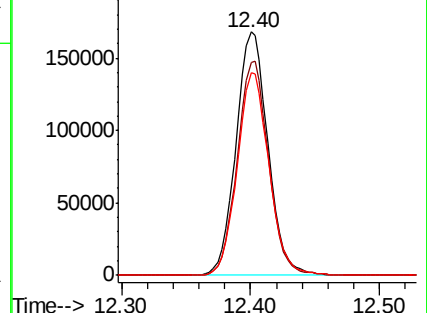
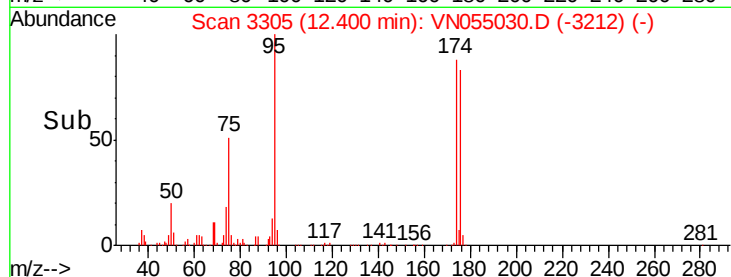
176 83.0 0.0 166.8



Abundance Ion 94.90 (94.60 to 95.60): VN055030.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN055030.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN055030.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

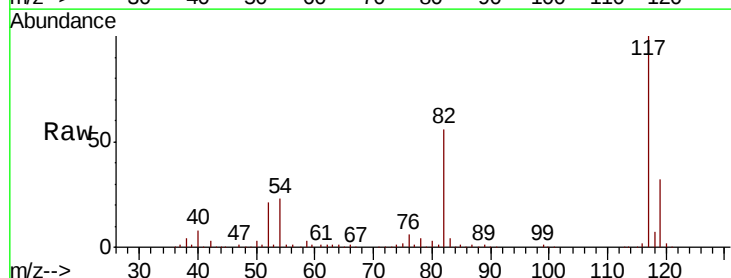
Tgt Ion: 117 Resp: 675014

Ion Ratio Lower Upper

117 100

82 56.2 44.6 66.8

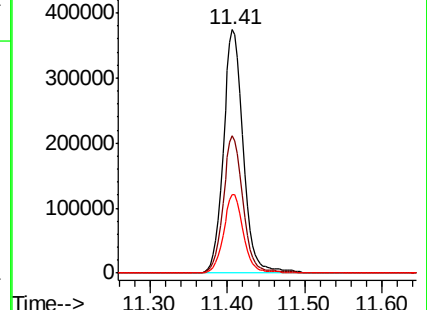
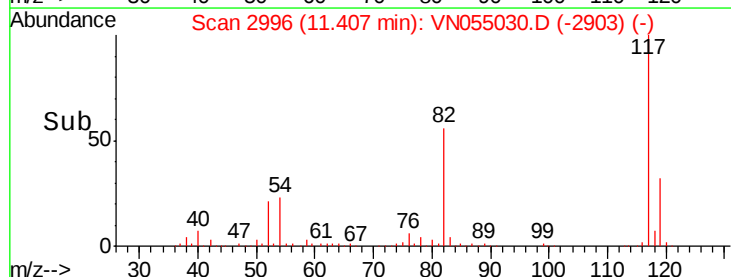
119 32.3 25.5 38.3

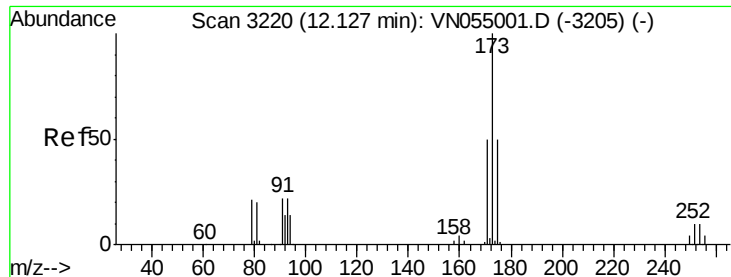


Abundance Ion 116.90 (116.60 to 117.60): VN055030.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN055030.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN055030.D (-2903) (-)





#71

Bromoform

Concen: 2.631 ug/l

RT: 12.38 min Scan# 3300

Delta R.T. 0.26 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

Instrument :

MSVOA_N

ClientSampled :

TP-3

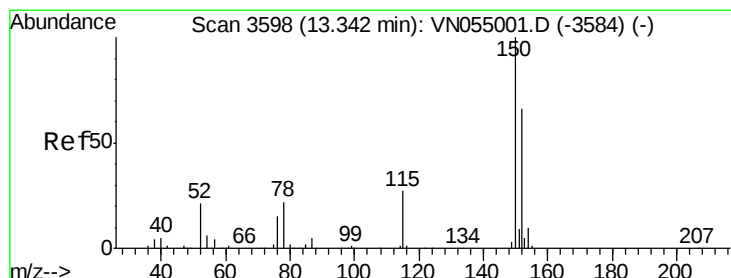
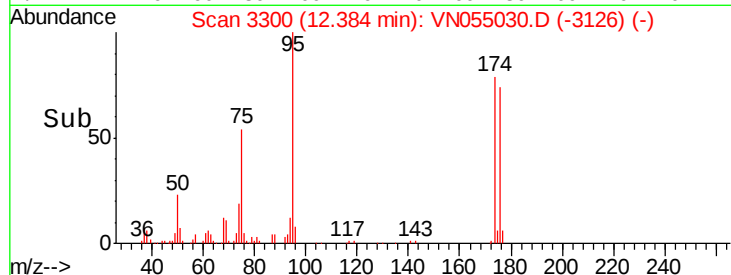
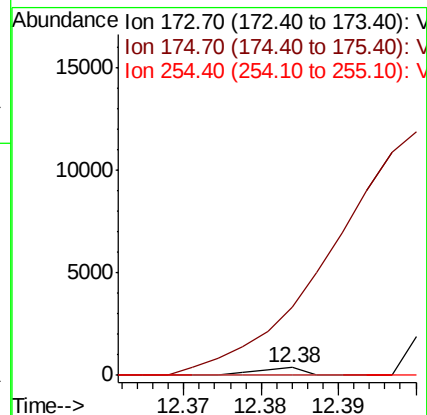
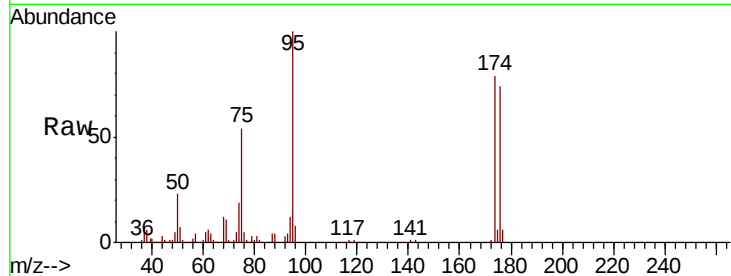
Tot Ion:173 Resp: 160

Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

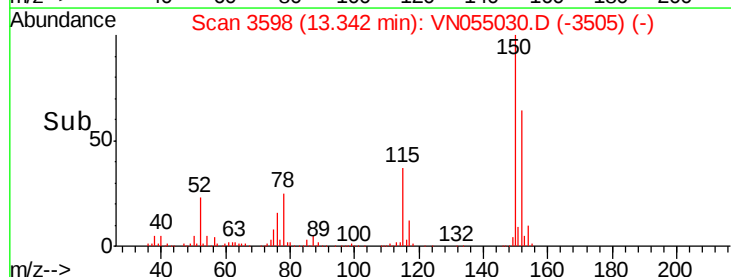
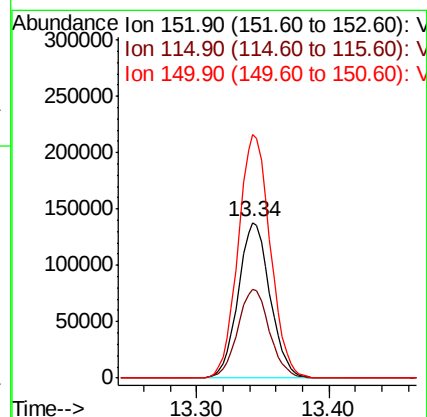
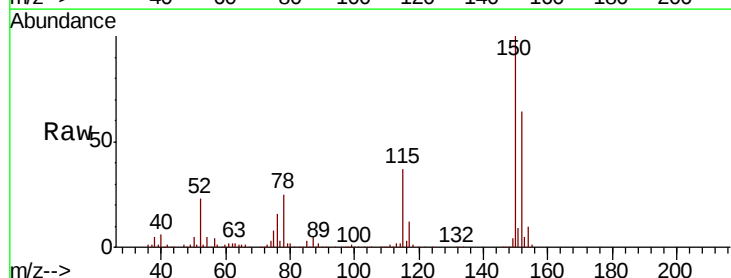
Tgt Ion:152 Resp: 229999

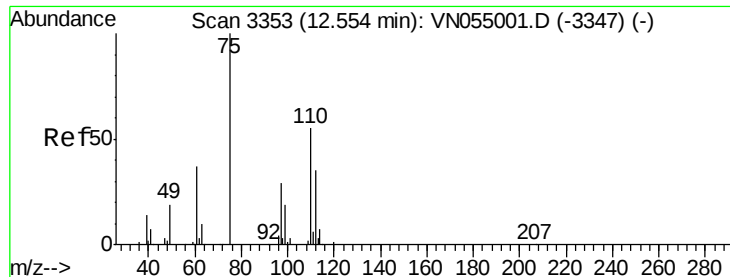
Ion Ratio Lower Upper

152 100

115 57.3 28.5 85.6

150 158.1 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 34.401 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

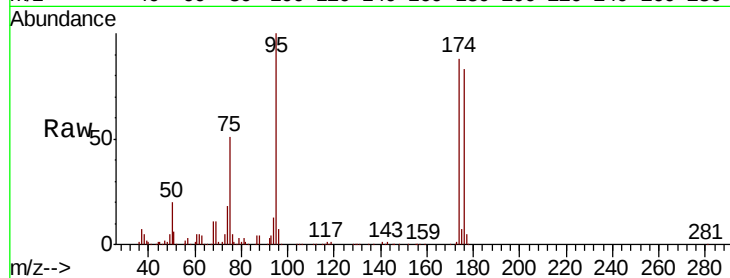
TP-3

Tot Ion: 75 Resp: 145566

Ion Ratio Lower Upper

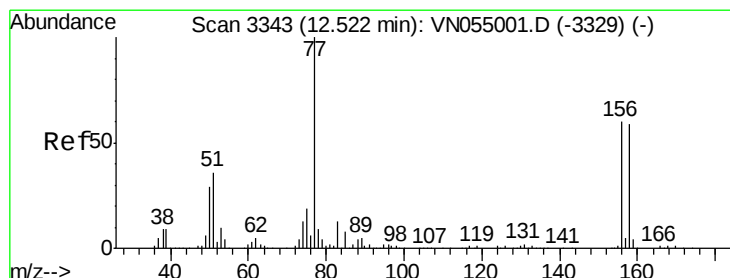
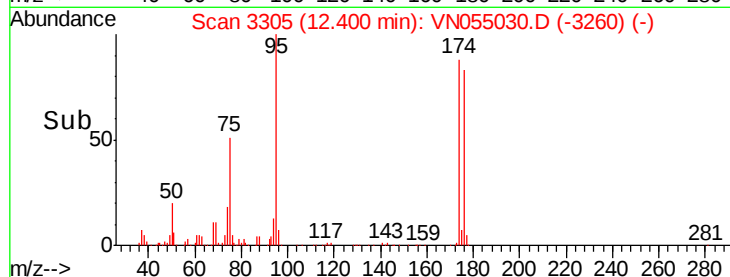
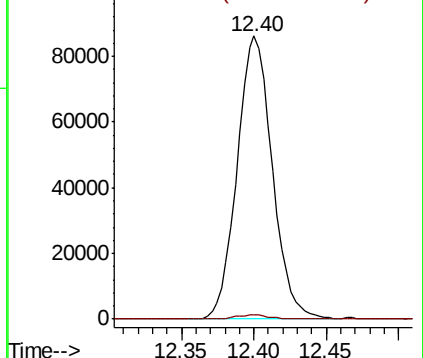
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

Bromobenzene

Concen: Below Cal

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

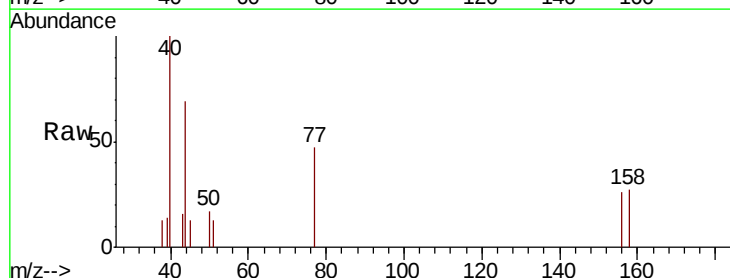
Tgt Ion: 156 Resp: 438

Ion Ratio Lower Upper

156 100

77 229.2 97.2 291.5

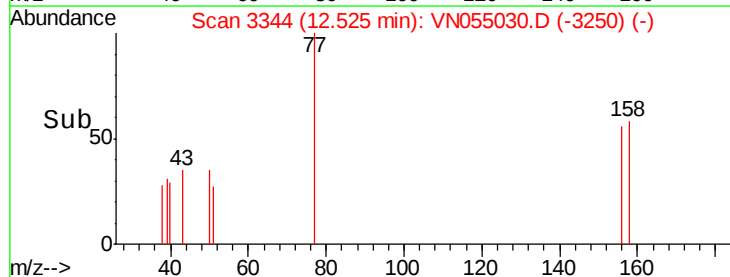
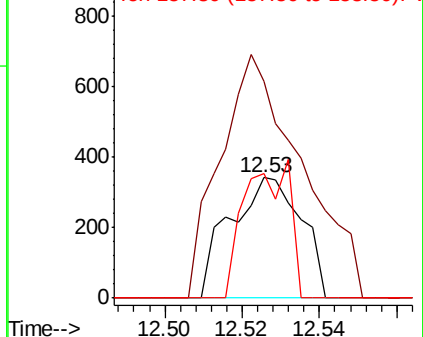
158 70.5 48.6 145.9

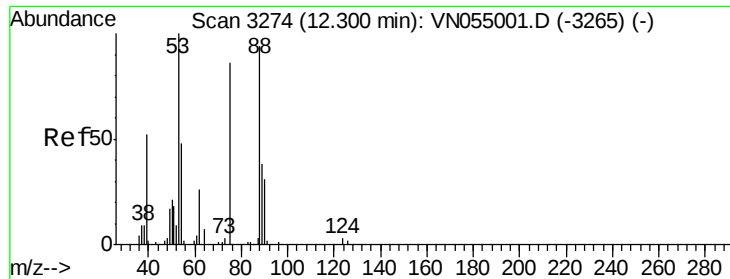


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V

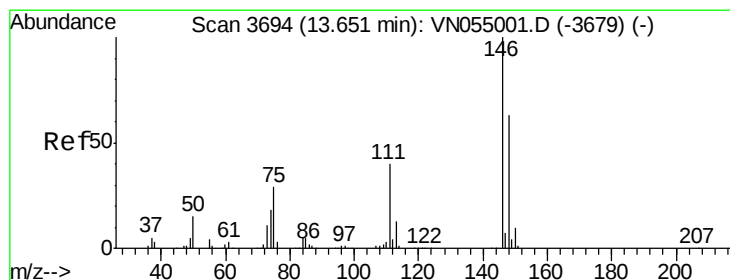
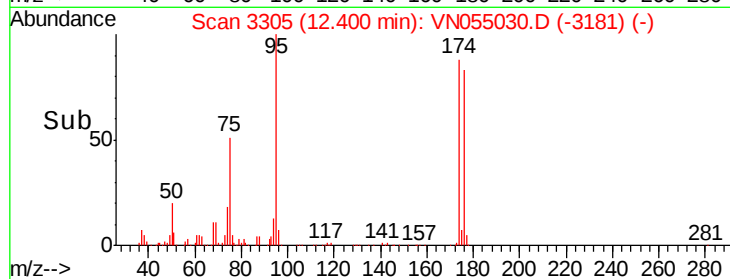
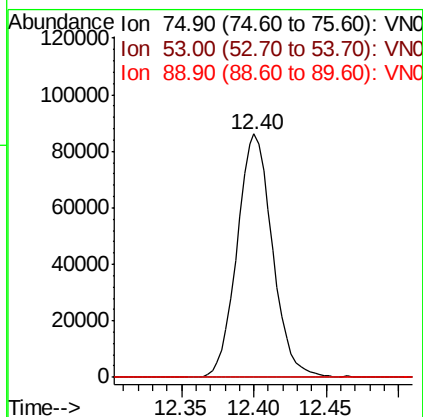
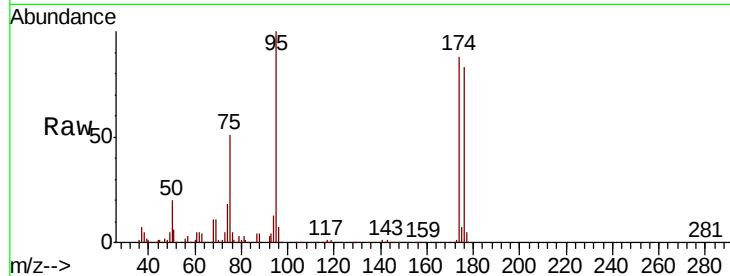




#81
trans-1,4-Dichloro-2-butene
Concen: 141.991 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN055030.D
Acq: 13 Apr 2019 15:28

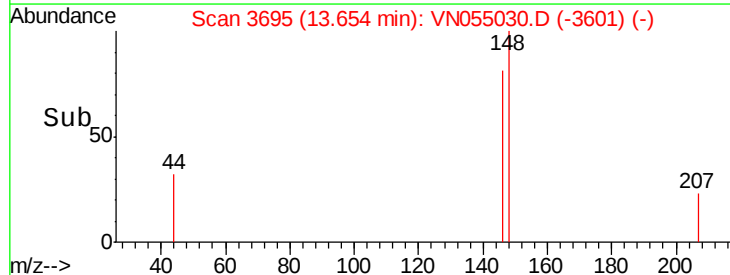
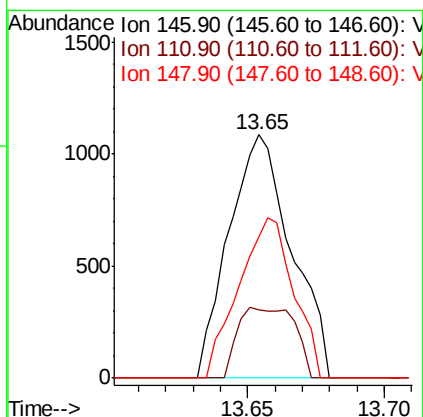
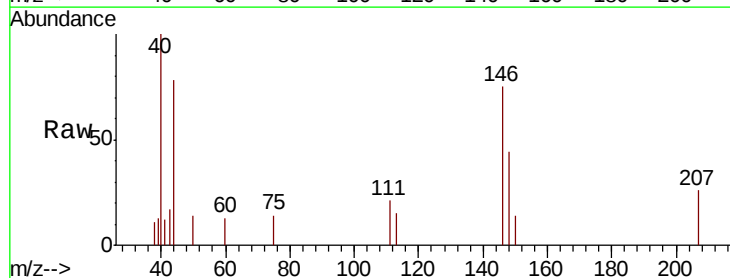
Instrument :
MSVOA_N
ClientSampled :
TP-3

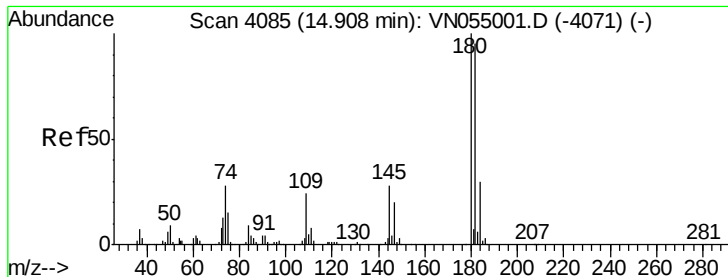
Tot Ion: 75 Resp: 145566
Ion Ratio Lower Upper
75 100
53 0.0 96.3 144.5#
89 0.0 38.6 57.8#



#91
1,2-Dichlorobenzene
Concen: 0.227 ug/l
RT: 13.65 min Scan# 3695
Delta R.T. 0.00 min
Lab File: VN055030.D
Acq: 13 Apr 2019 15:28

Tgt Ion: 146 Resp: 1724
Ion Ratio Lower Upper
146 100
111 26.5 20.3 60.9
148 57.5 32.2 96.6

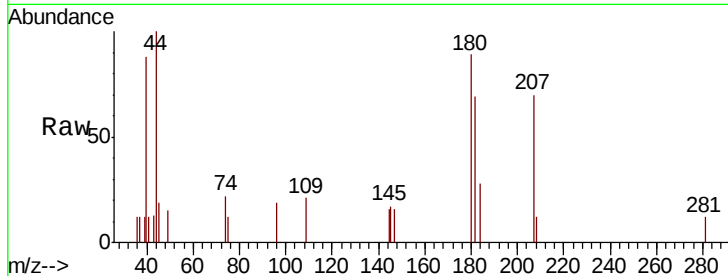




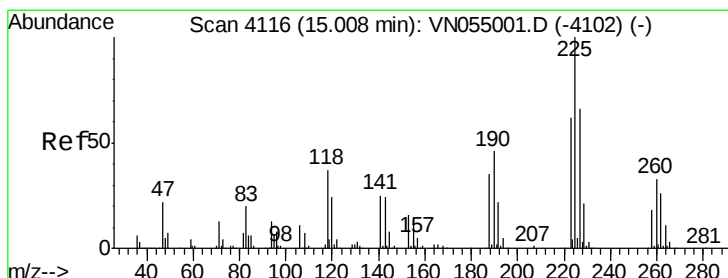
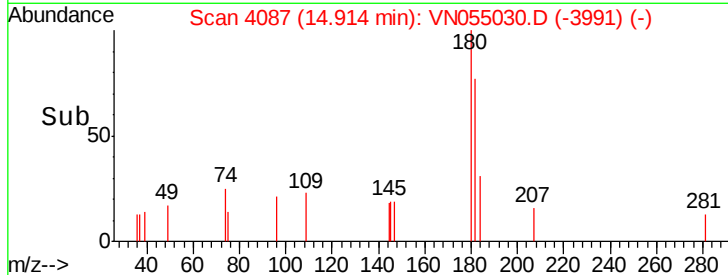
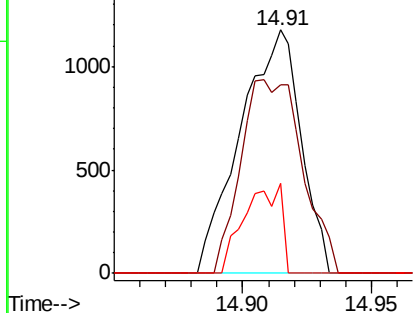
#93
 1,2,4-Trichlorobenzene
 Concen: 4.006 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN055030.D
 Acq: 13 Apr 2019 15:28

Instrument :
 MSVOA_N
 ClientSampled :
 TP-3

Tot Ion:180 Resp: 1925
 Ion Ratio Lower Upper
 180 100
 182 81.0 47.5 142.6
 145 22.3 14.2 42.8

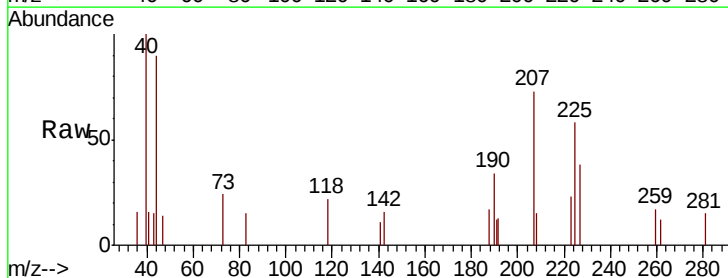


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

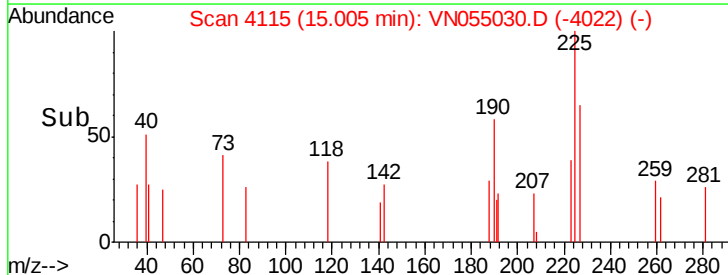
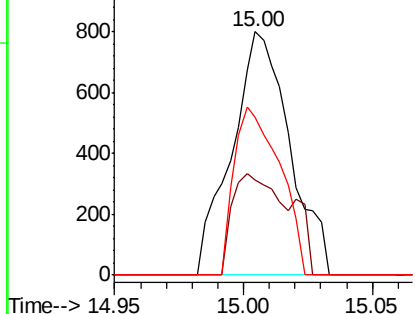


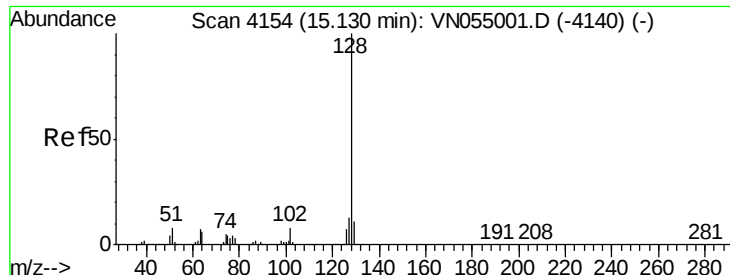
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN055030.D
 Acq: 13 Apr 2019 15:28

Tgt Ion:225 Resp: 1256
 Ion Ratio Lower Upper
 225 100
 223 41.2 31.4 94.0
 227 54.6 32.6 97.7



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 5.217 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

Instrument :

MSVOA_N

ClientSampleId :

TP-3

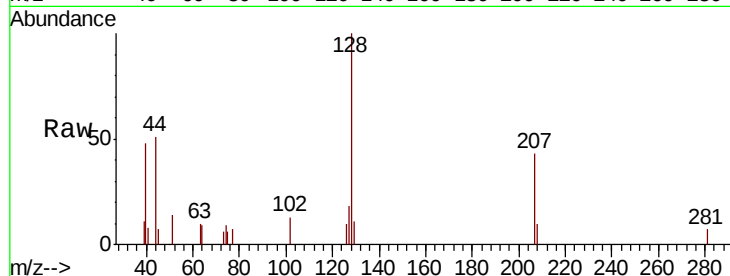
Tot Ion:128 Resp: 5247

Ion Ratio Lower Upper

128 100

127 13.4 10.1 15.1

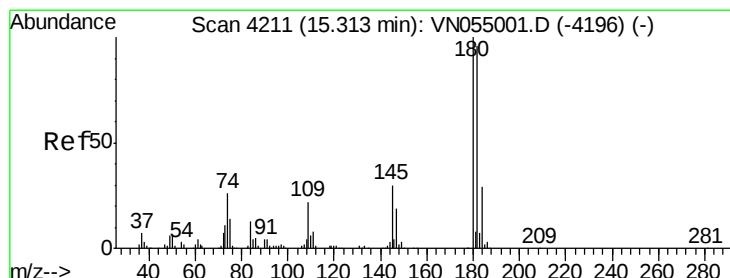
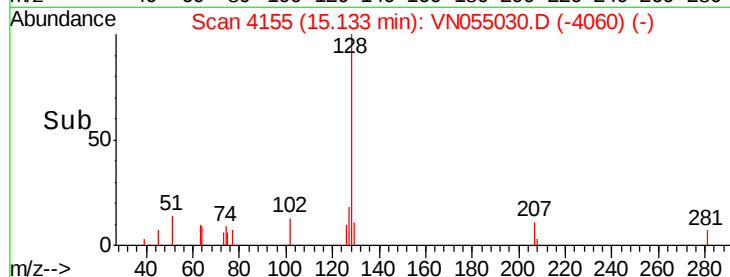
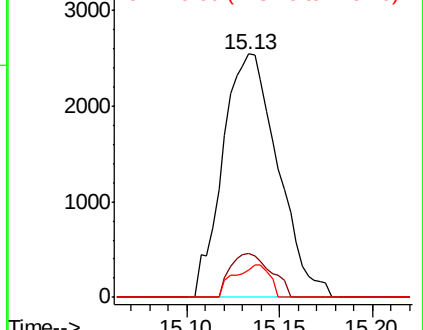
129 8.4 8.8 13.2#



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: 0.790 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN055030.D

Acq: 13 Apr 2019 15:28

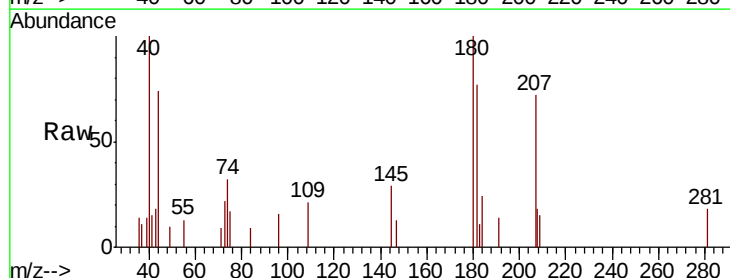
Tgt Ion:180 Resp: 2703

Ion Ratio Lower Upper

180 100

182 80.1 48.0 144.0

145 31.7 15.3 45.9



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

