

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061818\
 Data File : VN049351.D
 Acq On : 18 Jun 2018 18:39
 Operator : MD\SY
 Sample : PB110313ZHE#16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 19 01:34:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1242384	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1974245	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1614571	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	506870	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	834401	50.64	ug/l	0.00
Spiked Amount			Recovery	=	101.28%	
35) Dibromofluoromethane	7.59	113	731630	45.81	ug/l	0.00
Spiked Amount			Recovery	=	91.62%	
50) Toluene-d8	10.09	98	2657917	43.70	ug/l	0.00
Spiked Amount			Recovery	=	87.40%	
62) 4-Bromofluorobenzene	12.41	95	702611	34.94	ug/l	0.00
Spiked Amount			Recovery	=	69.88%	

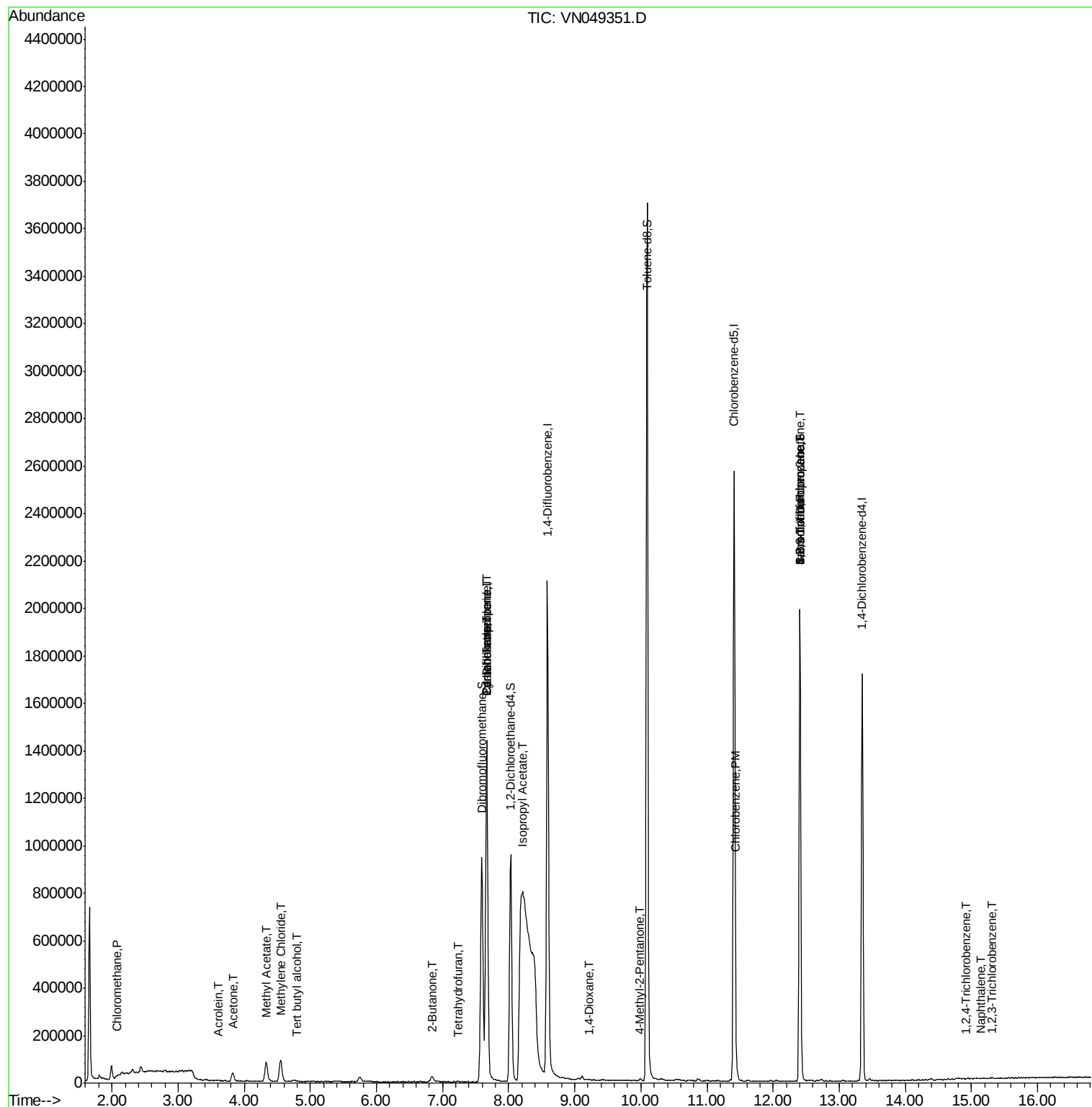
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3761	0.20	ug/l #	86
11) Tert butyl alcohol	4.79	59	436	0.45	ug/l #	70
13) Acrolein	3.60	56	321	0.32	ug/l #	7
16) Acetone	3.83	43	59545	14.88	ug/l #	86
18) Methyl Acetate	4.33	43	161213	13.21	ug/l	97
20) Methylene Chloride	4.55	84	68435	4.10	ug/l	90
25) 2-Butanone	6.85	43	8432	1.57	ug/l	98
29) Tetrahydrofuran	7.22	42	2064	0.60	ug/l	97
31) Cyclohexane	7.67	56	21684	0.72	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	87129	3.85	ug/l #	50
38) Carbon Tetrachloride	7.67	117	112699	4.81	ug/l #	18
43) Isopropyl Acetate	8.20	43	1033103	43.96	ug/l #	64
49) 1,4-Dioxane	9.20	88	320	2.09	ug/l #	28
51) 4-Methyl-2-Pentanone	9.99	43	5010	0.41	ug/l #	78
65) Chlorobenzene	11.44	112	23811	0.57	ug/l	95
71) Bromoform	12.41	173	5000	0.49	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.50	83	62	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.41	75	341473	39.48	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	341473	124.79	ug/l #	9
93) 1,2,4-Trichlorobenzene	14.93	180	67	4.75	ug/l #	1
95) Naphthalene	15.14	128	1422	2.18	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.32	180	139	3.47	ug/l #	83

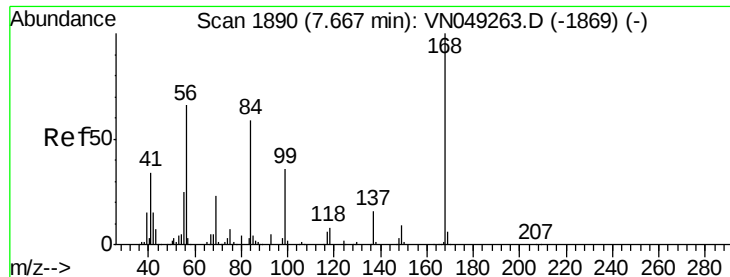
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN061818\
Data File : VN049351.D
Acq On : 18 Jun 2018 18:39
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jun 19 01:34:23 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

Instrument :

MSVOA_N

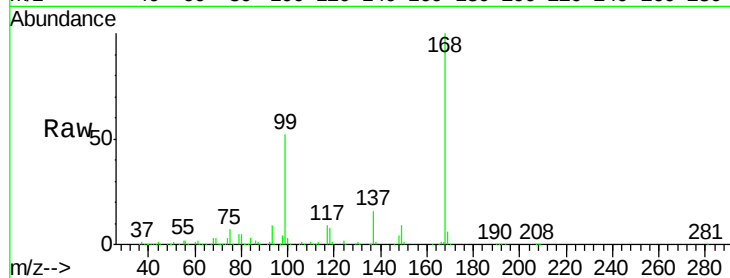
ClientSampleId :

Tot Ion:168 Resp: 1242384

Ion Ratio Lower Upper

168 100

99 51.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): VN049263.D (-1869) (-)

Ion 98.90 (98.60 to 99.60): VN049263.D (-1869) (-)

7.67

600000

500000

400000

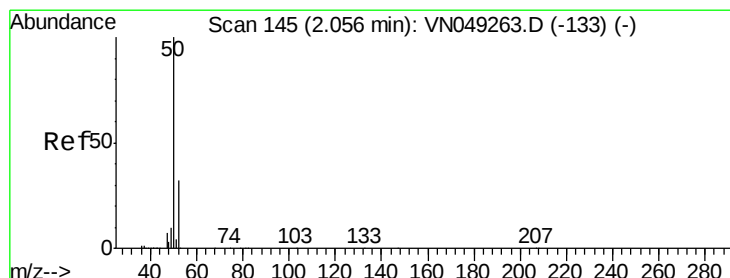
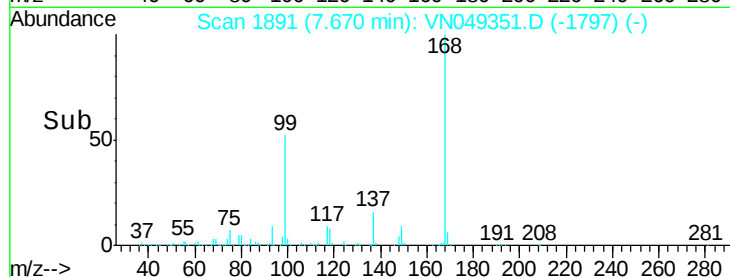
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 0.20 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049351.D

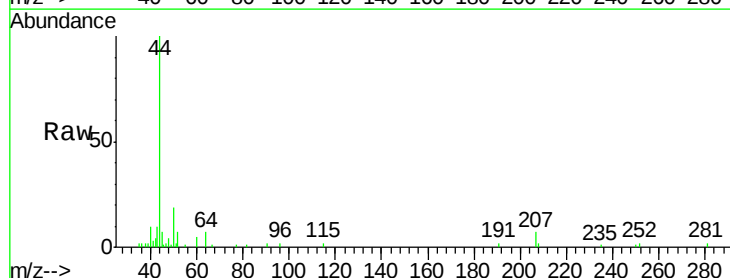
Acq: 18 Jun 2018 18:39

Tgt Ion: 50 Resp: 3761

Ion Ratio Lower Upper

50 100

52 39.3 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VN049263.D (-133) (-)

Ion 51.90 (51.60 to 52.60): VN049263.D (-133) (-)

2.06

3000

2500

2000

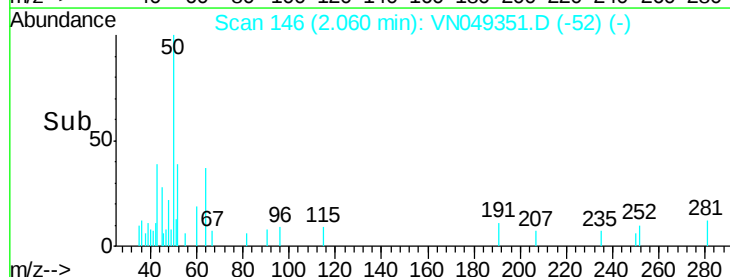
1500

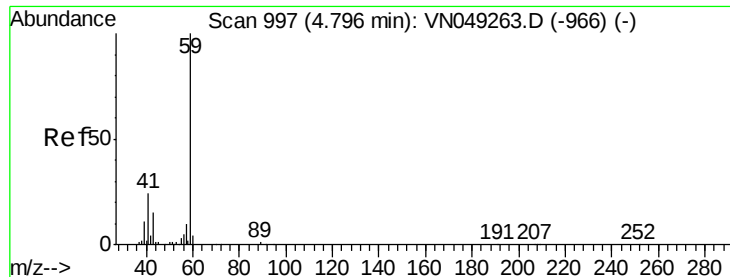
1000

500

0

Time-->

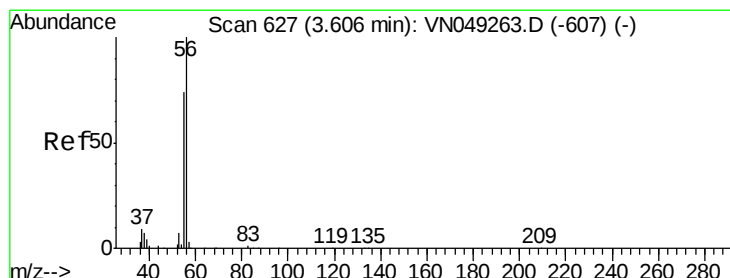
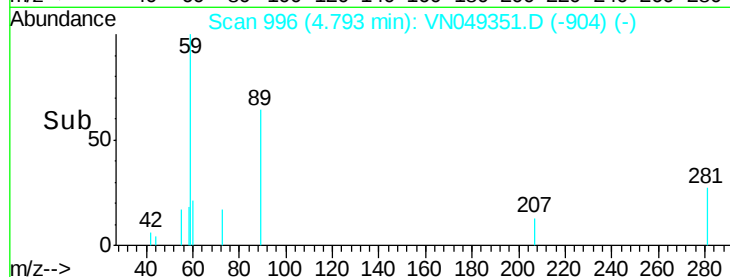
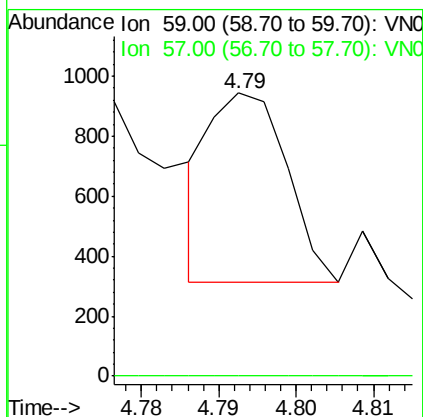
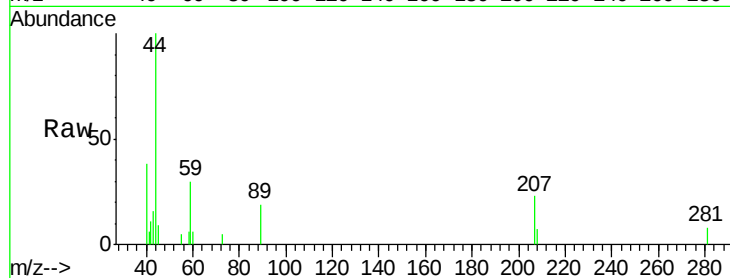




#11
Tert butyl alcohol
Concen: 0.45 ug/l
RT: 4.79 min Scan# 996
Delta R.T. -0.00 min
Lab File: VN049351.D
Acq: 18 Jun 2018 18:39

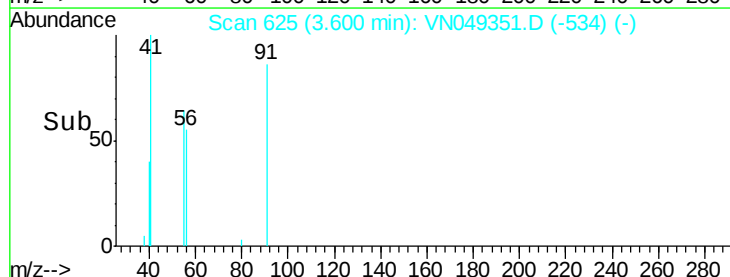
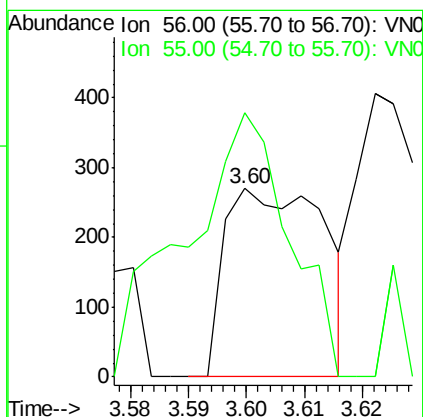
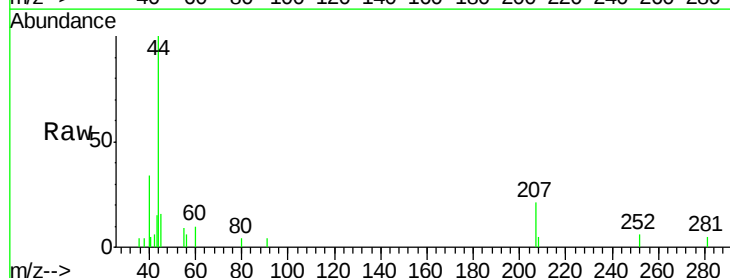
Instrument :
MSVOA_N
ClientSampleId :

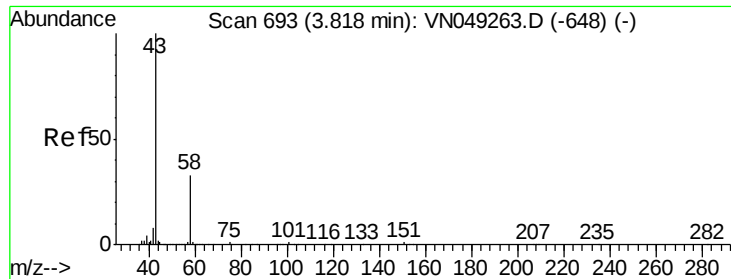
Tot Ion: 59 Resp: 436
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.6#



#13
Acrolein
Concen: 0.32 ug/l
RT: 3.60 min Scan# 625
Delta R.T. -0.01 min
Lab File: VN049351.D
Acq: 18 Jun 2018 18:39

Tgt Ion: 56 Resp: 321
Ion Ratio Lower Upper
56 100
55 148.3 57.1 85.7#





#16

Acetone

Concen: 14.88 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

Instrument :

MSVOA_N

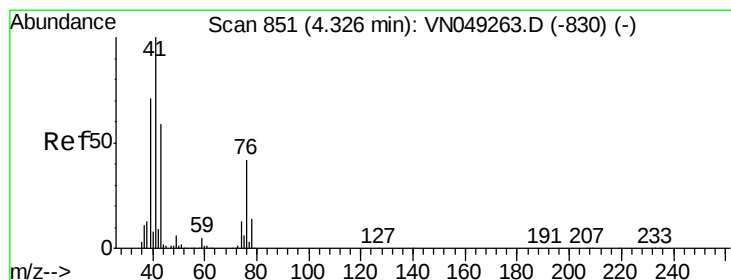
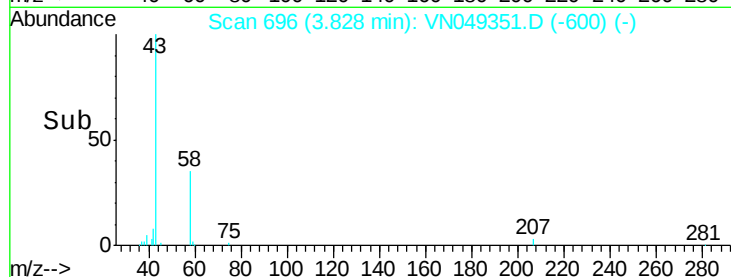
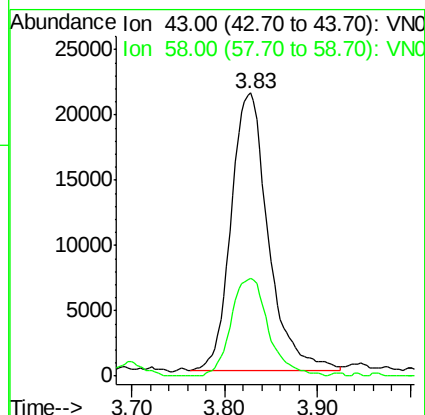
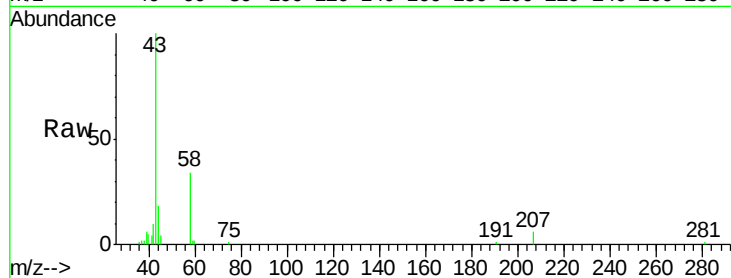
ClientSampleId :

Tot Ion: 43 Resp: 59545

Ion Ratio Lower Upper

43 100

58 35.1 22.4 33.6#



#18

Methyl Acetate

Concen: 13.21 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN049351.D

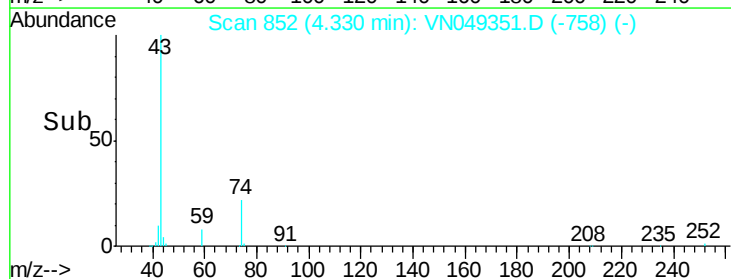
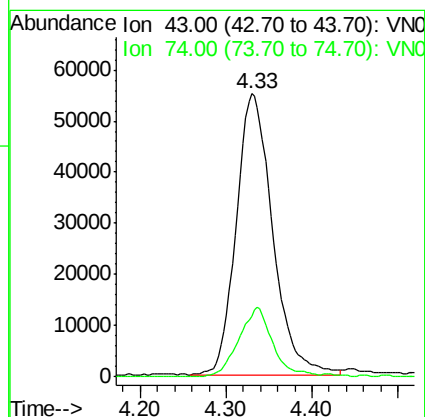
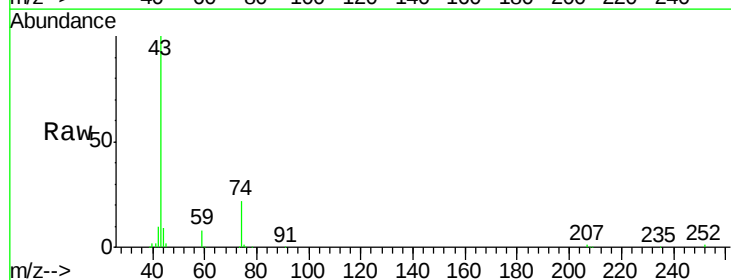
Acq: 18 Jun 2018 18:39

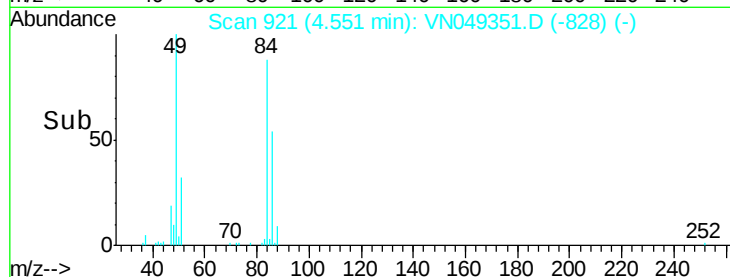
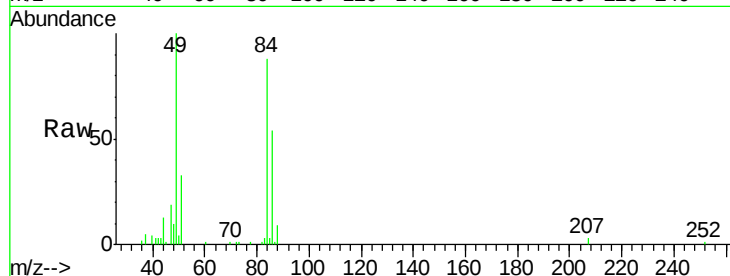
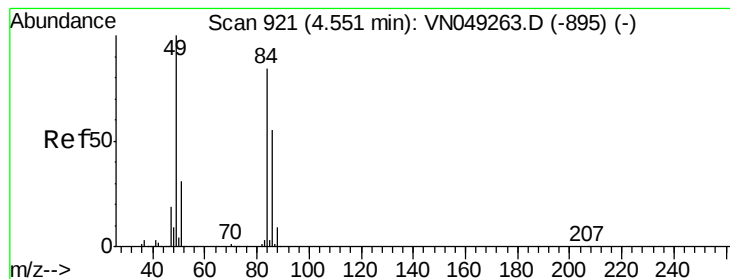
Tgt Ion: 43 Resp: 161213

Ion Ratio Lower Upper

43 100

74 23.1 17.4 26.0





#20

Methylene Chloride

Concen: 4.10 ug/l

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 84 Resp: 68435

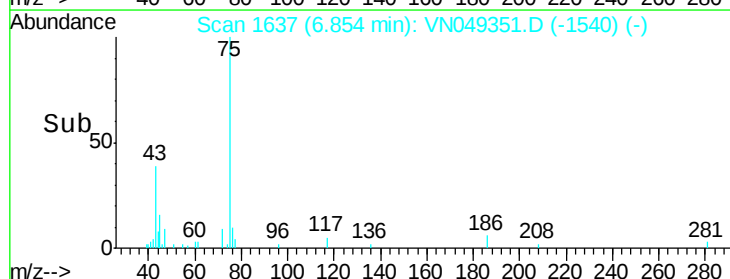
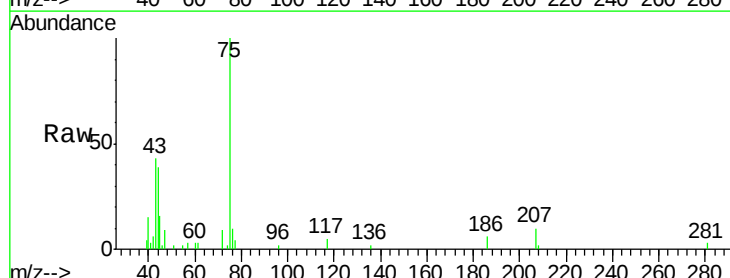
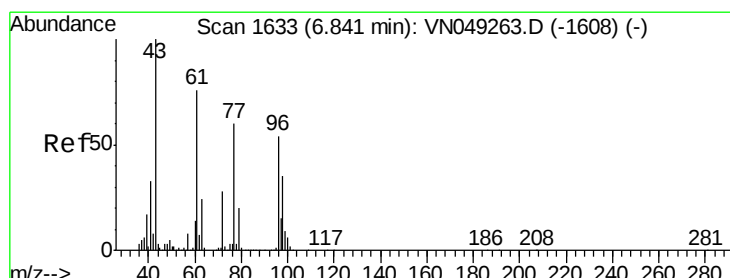
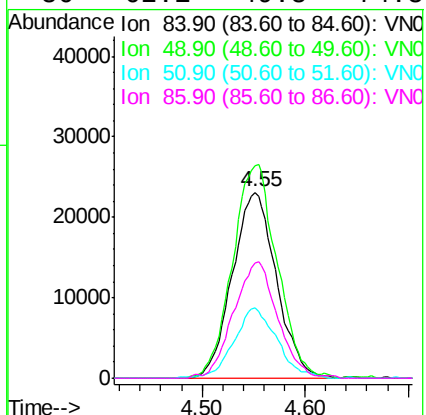
Ion Ratio Lower Upper

84 100

49 114.3 106.9 160.3

51 37.9 32.7 49.1

86 62.1 49.8 74.8



#25

2-Butanone

Concen: 1.57 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. 0.01 min

Lab File: VN049351.D

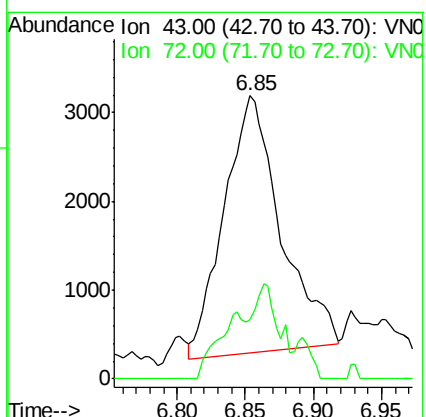
Acq: 18 Jun 2018 18:39

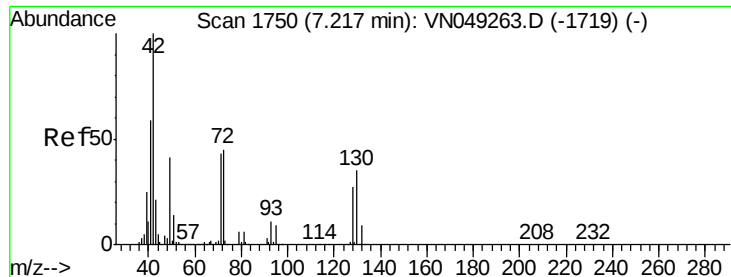
Tgt Ion: 43 Resp: 8432

Ion Ratio Lower Upper

43 100

72 24.2 20.2 30.2





#29

Tetrahydrofuran

Concen: 0.60 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. 0.00 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

Instrument :

MSVOA_N

ClientSampleId :

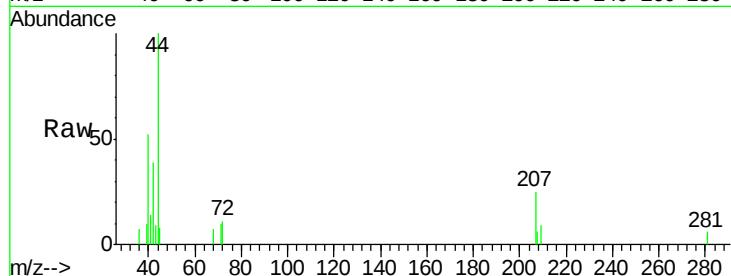
Tot Ion: 42 Resp: 2064

Ion Ratio Lower Upper

42 100

72 36.6 32.2 48.4

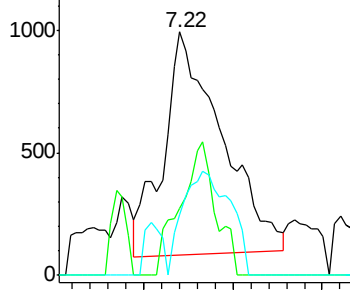
71 38.0 30.5 45.7



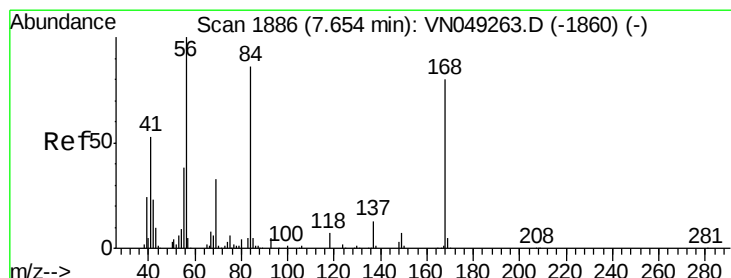
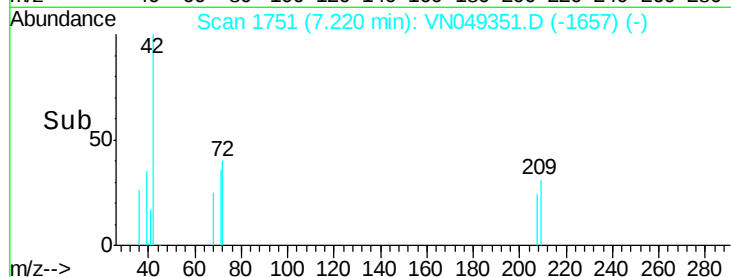
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->



#31

Cyclohexane

Concen: 0.72 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

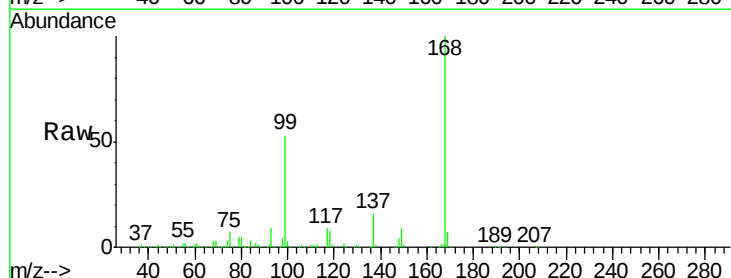
Tgt Ion: 56 Resp: 21684

Ion Ratio Lower Upper

56 100

69 185.9 25.0 37.4#

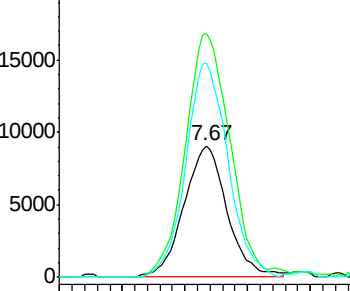
84 163.6 64.6 96.8#



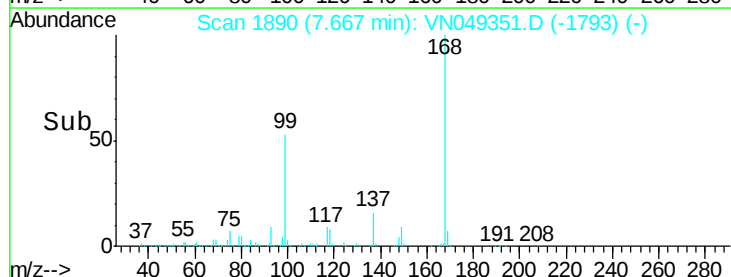
Abundance Ion 56.00 (55.70 to 56.70): VN0

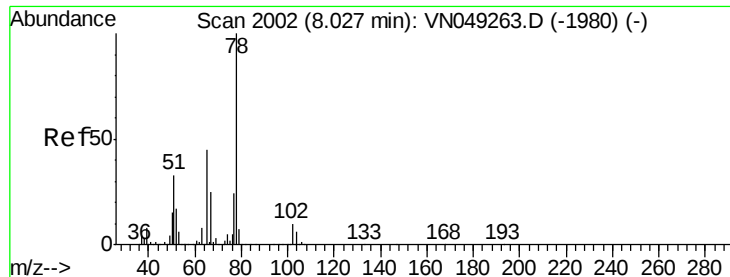
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->





#33

1,2-Dichloroethane-d4

Concen: 50.64 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

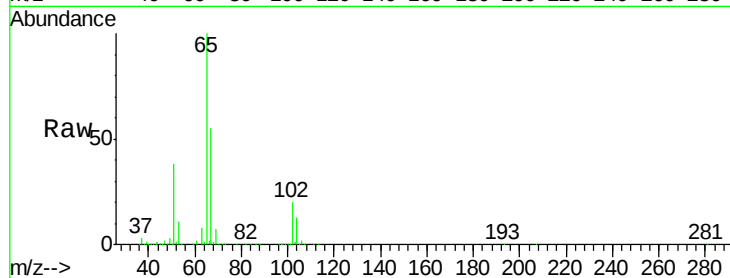
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 834401

Ion Ratio Lower Upper

65 100

67 53.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049351.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049351.D (-1909) (-)

8.03

400000

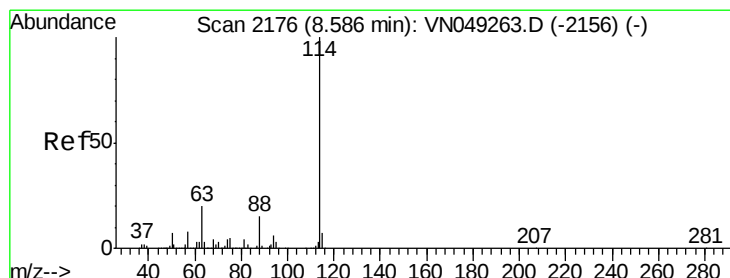
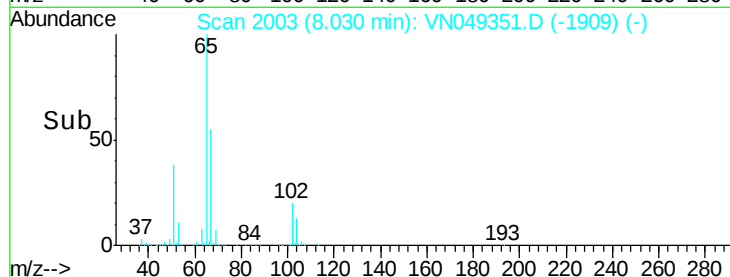
300000

200000

100000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

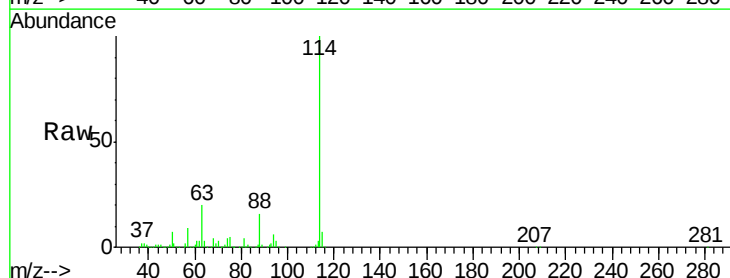
Tgt Ion: 114 Resp: 1974245

Ion Ratio Lower Upper

114 100

63 20.0 0.0 44.4

88 15.8 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN049351.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049351.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049351.D (-2083) (-)

8.59

1200000

1000000

800000

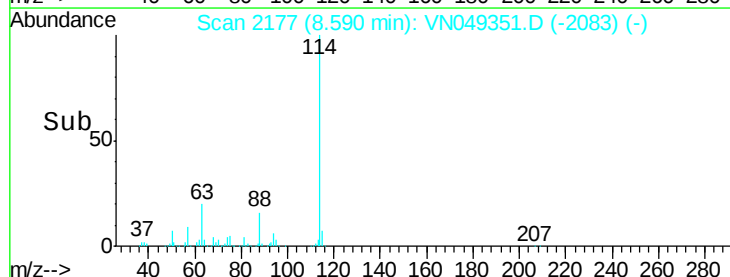
600000

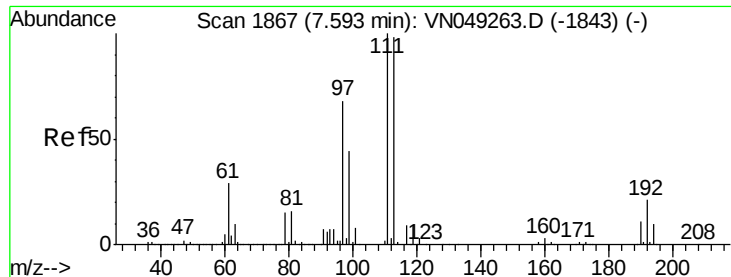
400000

200000

0

Time-->





#35

Dibromofluoromethane

Concen: 45.81 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

Instrument :
MSVOA_N
ClientSampled :

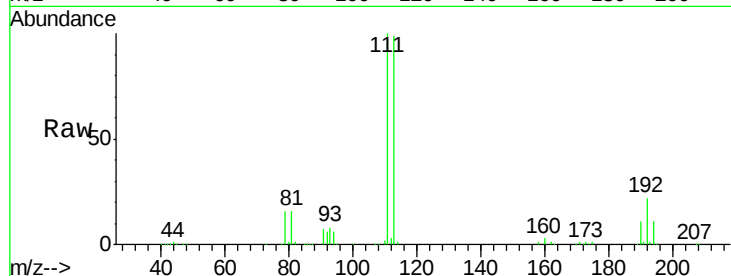
Tot Ion:113 Resp: 731630

Ion Ratio Lower Upper

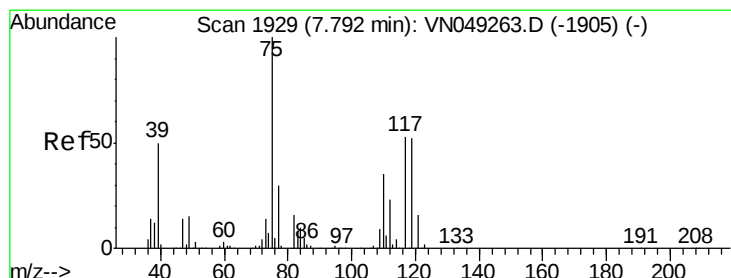
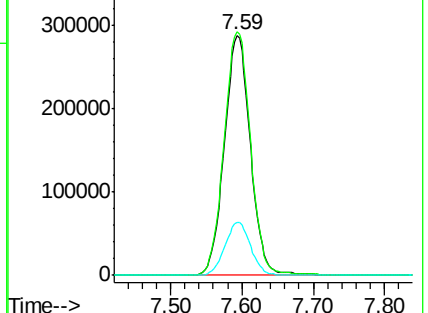
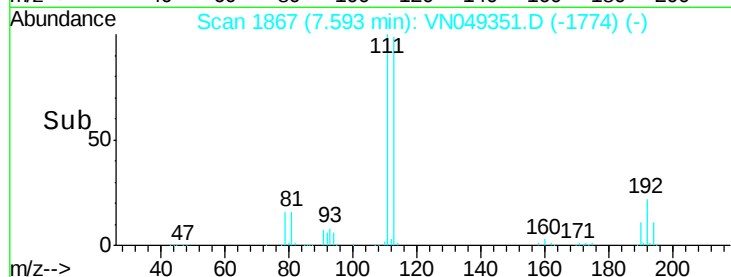
113 100

111 103.5 82.4 123.6

192 21.9 15.0 22.6



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: 3.85 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

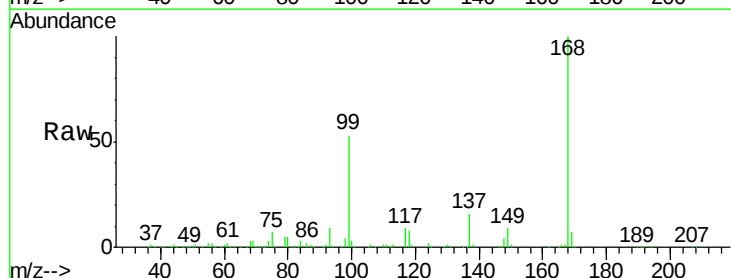
Tgt Ion: 75 Resp: 87129

Ion Ratio Lower Upper

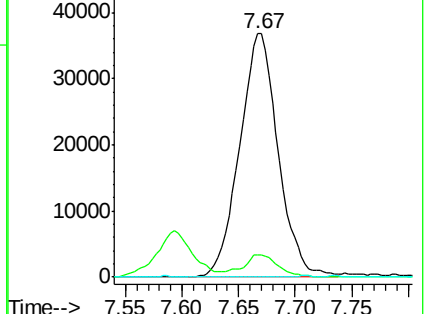
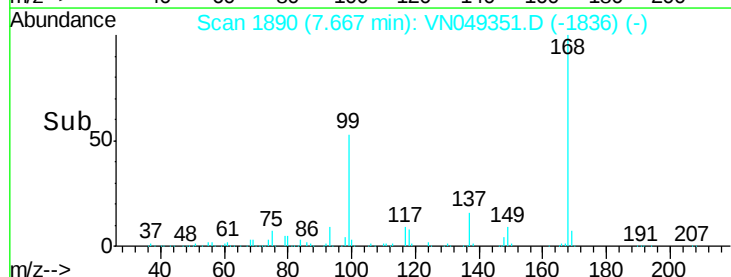
75 100

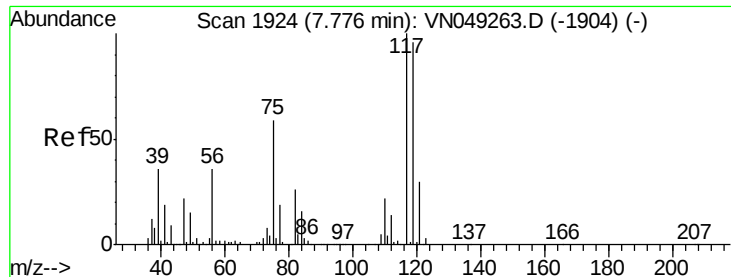
110 8.6 17.0 50.9#

77 0.0 24.4 36.6#



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

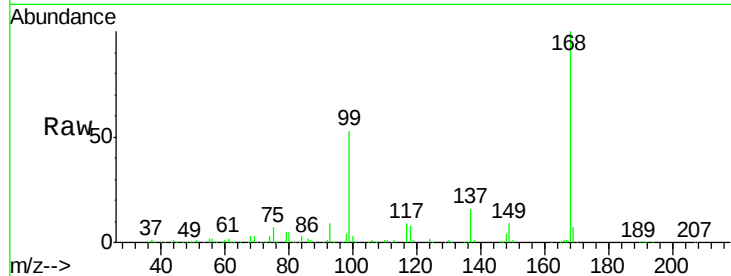




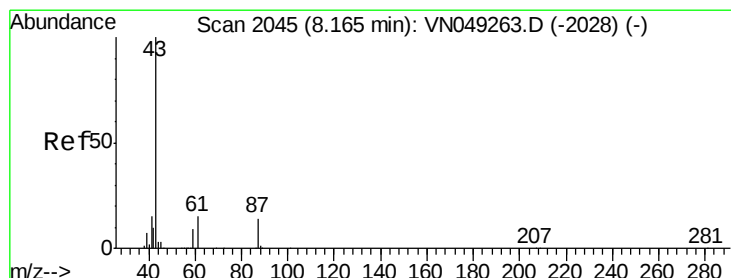
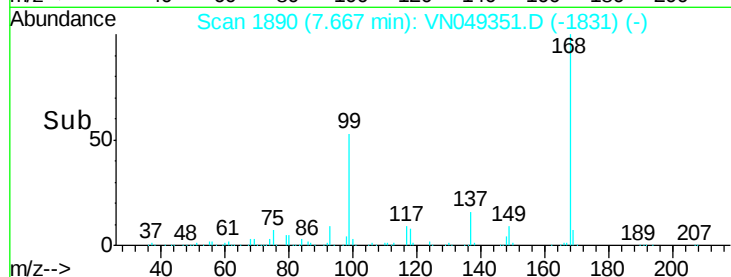
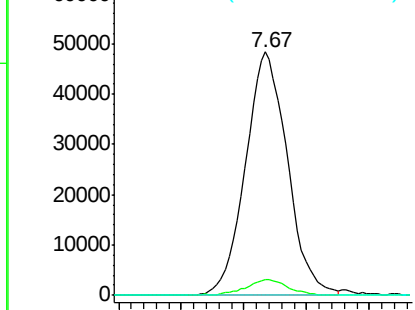
#38
Carbon Tetrachloride
Concen: 4.81 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049351.D
Acq: 18 Jun 2018 18:39

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 112699
Ion Ratio Lower Upper
117 100
119 6.3 75.6 113.4#
121 0.0 24.7 37.1#

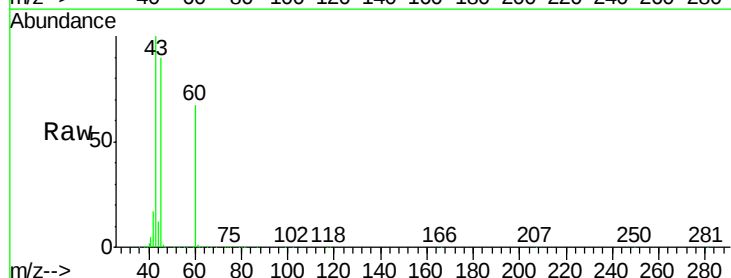


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

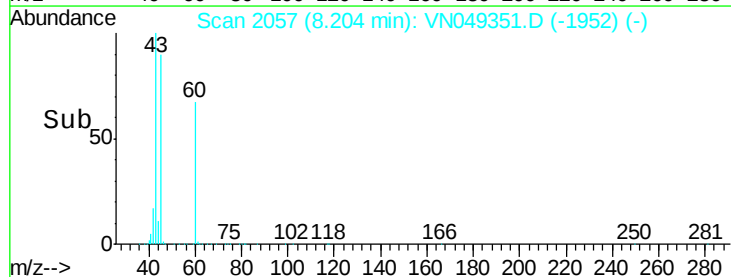
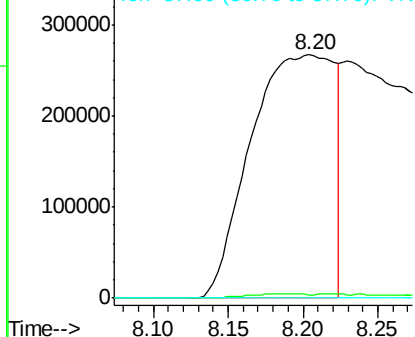


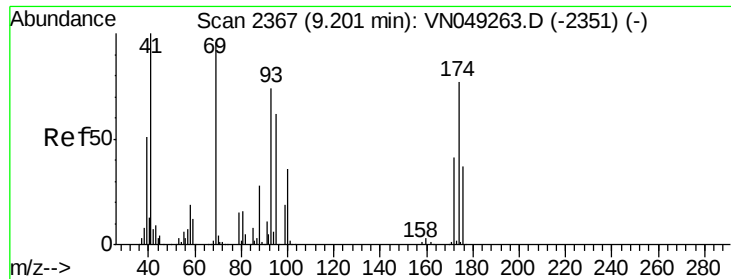
#43
Isopropyl Acetate
Concen: 43.96 ug/l
RT: 8.20 min Scan# 2057
Delta R.T. 0.04 min
Lab File: VN049351.D
Acq: 18 Jun 2018 18:39

Tgt Ion: 43 Resp: 1033103
Ion Ratio Lower Upper
43 100
61 0.0 14.2 21.4#
87 0.0 9.4 14.0#



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

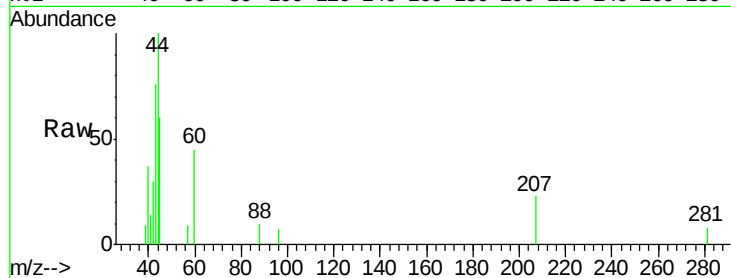




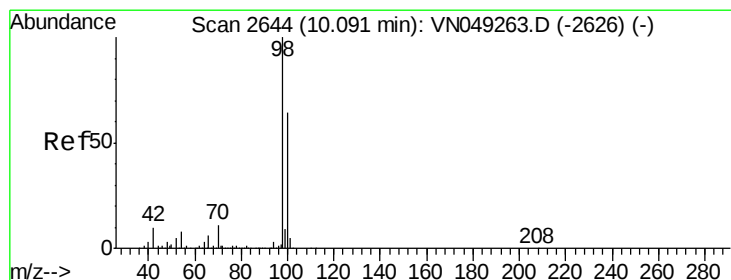
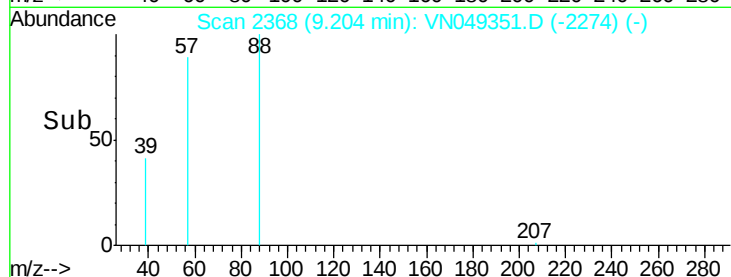
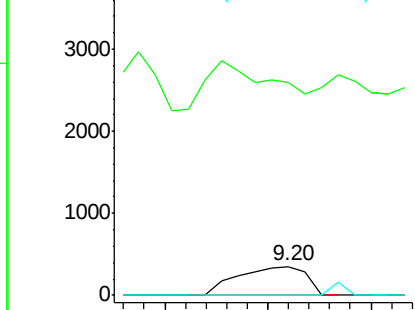
#49
1,4-Dioxane
Concen: 2.09 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049351.D
Acq: 18 Jun 2018 18:39

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 320
Ion Ratio Lower Upper
88 100
43 0.0 30.9 46.3#
58 9.4 58.9 88.3#

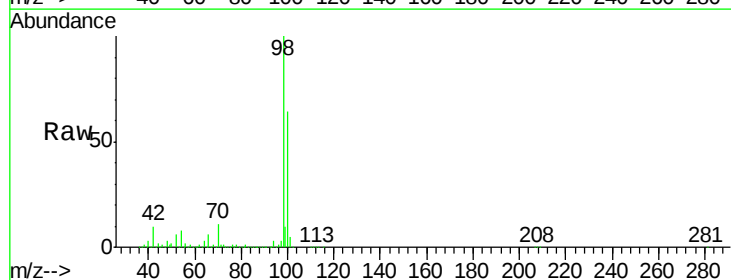


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

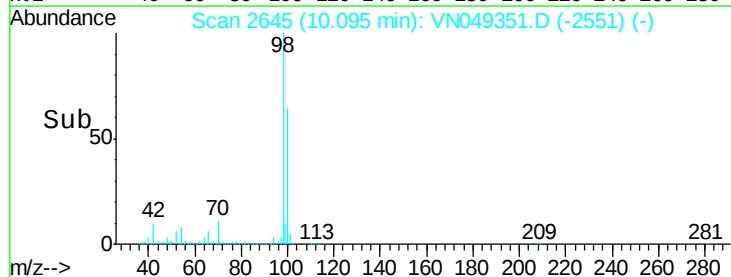
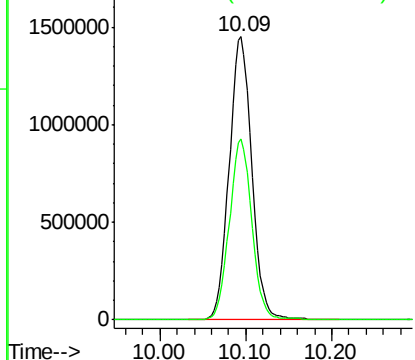


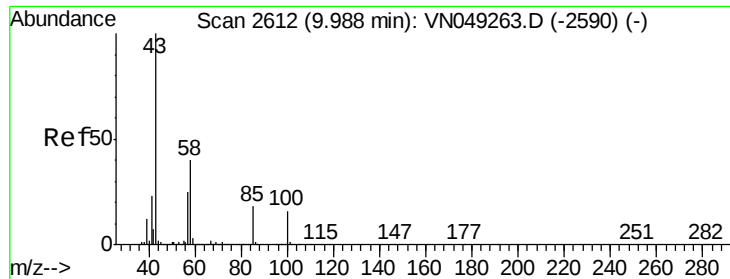
#50
Toluene-d8
Concen: 43.70 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049351.D
Acq: 18 Jun 2018 18:39

Tgt Ion: 98 Resp: 2657917
Ion Ratio Lower Upper
98 100
100 63.5 49.8 74.8



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: 0.41 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.00 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

Instrument :

MSVOA_N

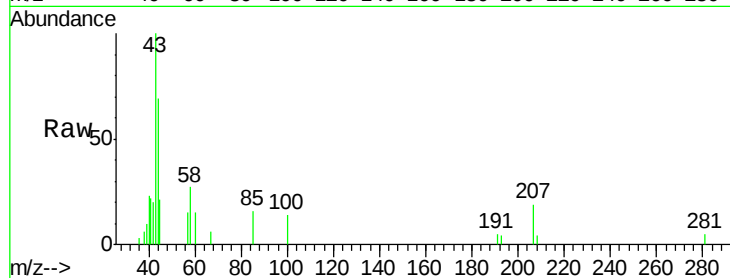
ClientSampleId :

Tot Ion: 43 Resp: 5010

Ion Ratio Lower Upper

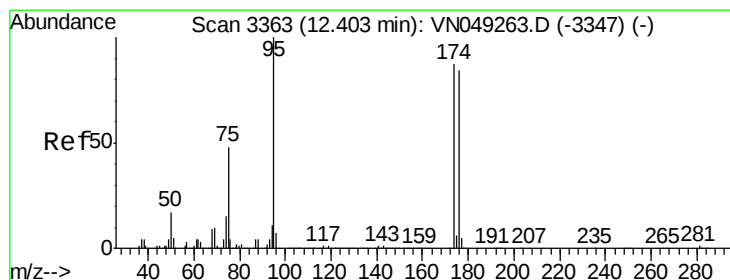
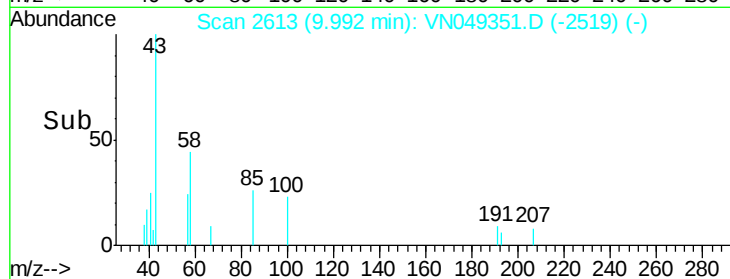
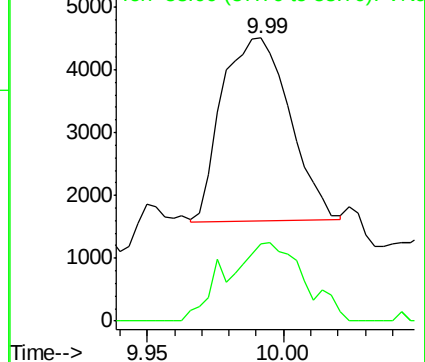
43 100

58 49.1 29.0 43.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 34.94 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

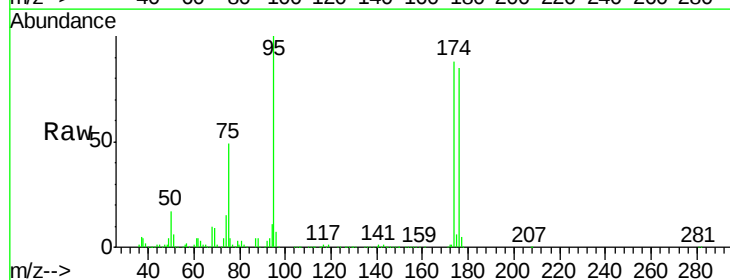
Tgt Ion: 95 Resp: 702611

Ion Ratio Lower Upper

95 100

174 89.0 0.0 165.6

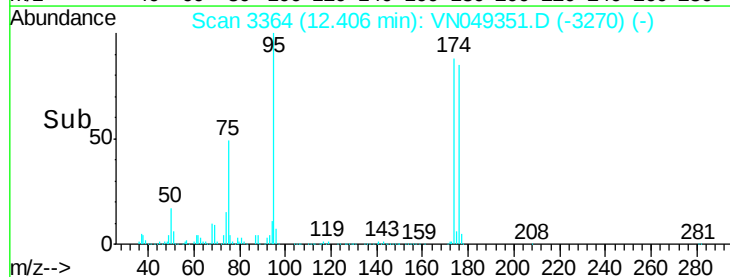
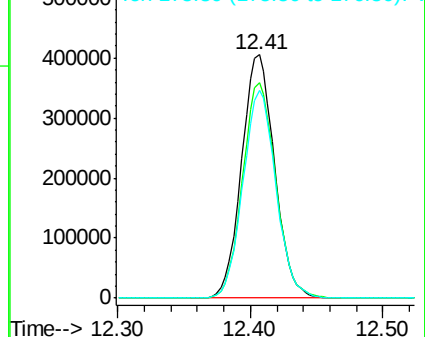
176 85.2 0.0 157.4

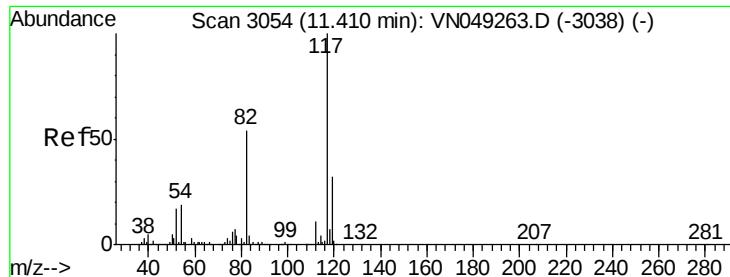


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

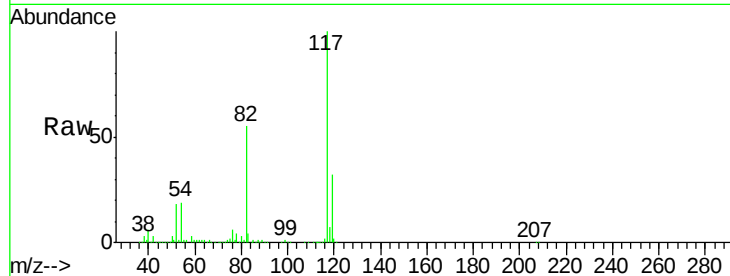




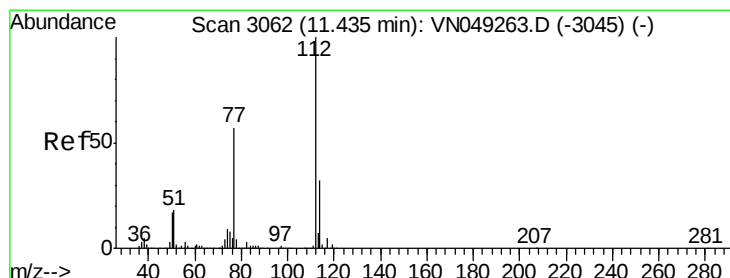
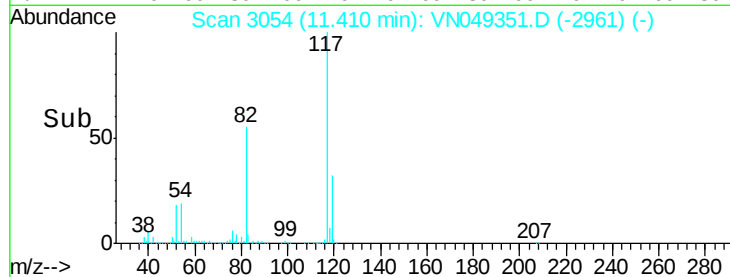
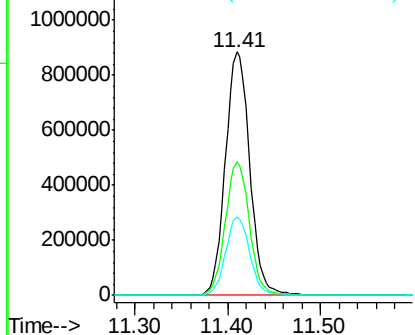
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049351.D
Acq: 18 Jun 2018 18:39

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1614571
Ion Ratio Lower Upper
117 100
82 54.7 45.9 68.9
119 32.1 25.5 38.3

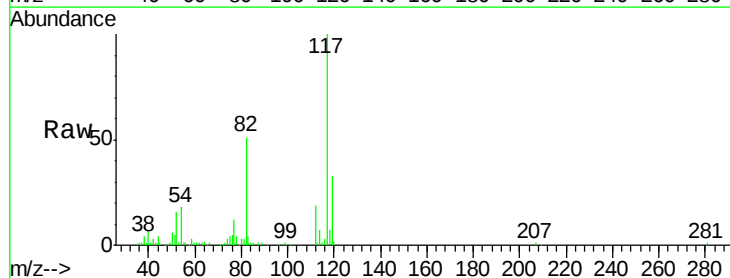


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

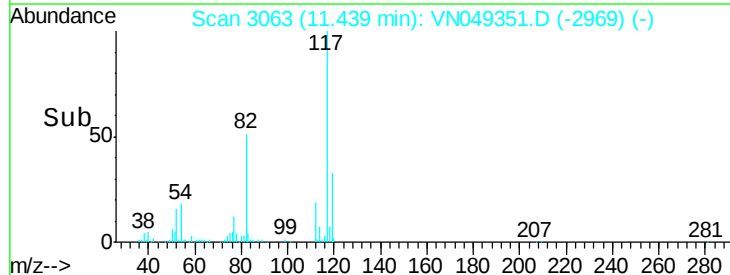
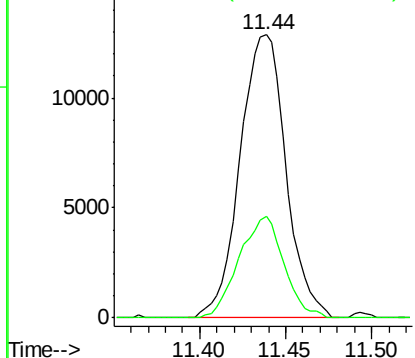


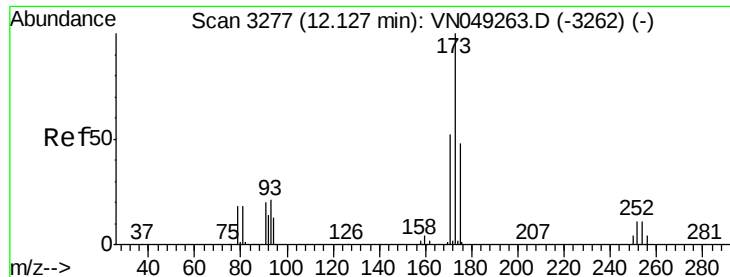
#65
Chlorobenzene
Concen: 0.57 ug/l
RT: 11.44 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN049351.D
Acq: 18 Jun 2018 18:39

Tgt Ion:112 Resp: 23811
Ion Ratio Lower Upper
112 100
114 35.9 26.2 39.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

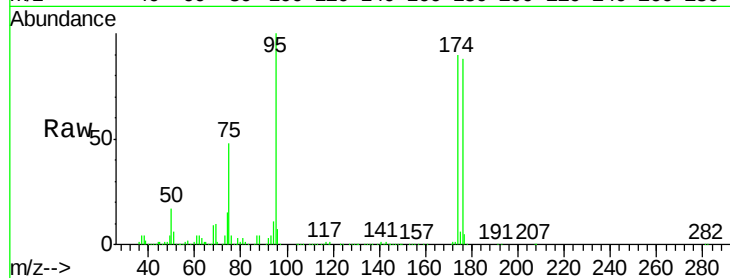




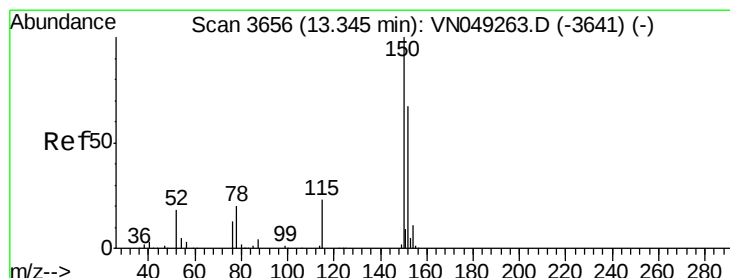
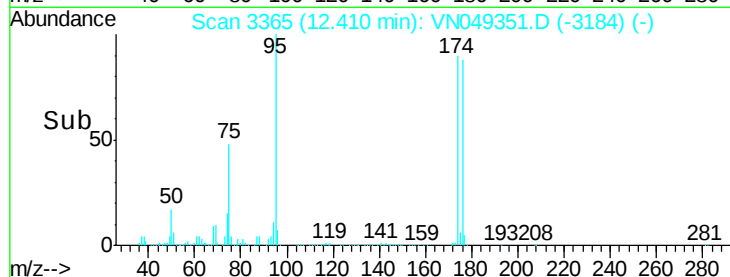
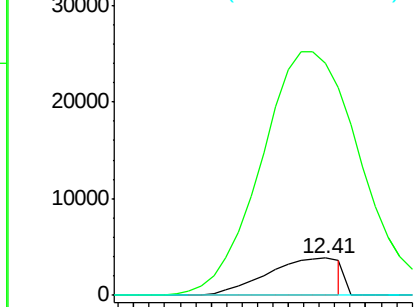
#71
Bromoform
Concen: 0.49 ug/l
RT: 12.41 min Scan# 3365
Delta R.T. 0.28 min
Lab File: VN049351.D
Acq: 18 Jun 2018 18:39

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 5000
Ion Ratio Lower Upper
173 100
175 685.7 24.5 73.5#
254 0.0 0.1 0.1#

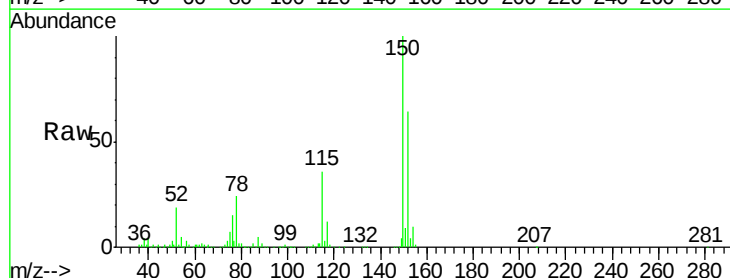


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

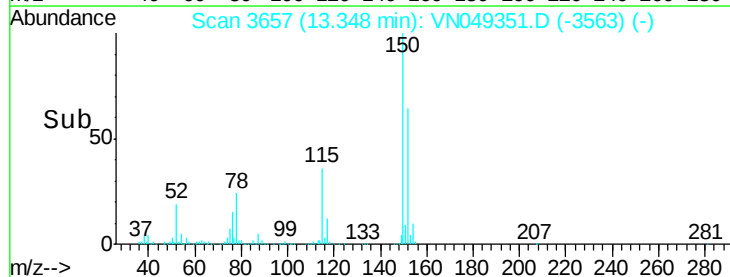
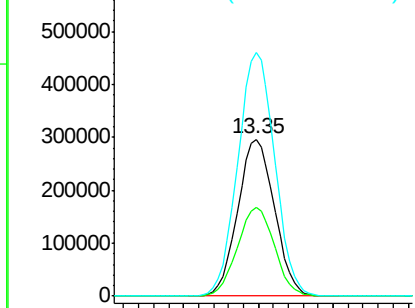


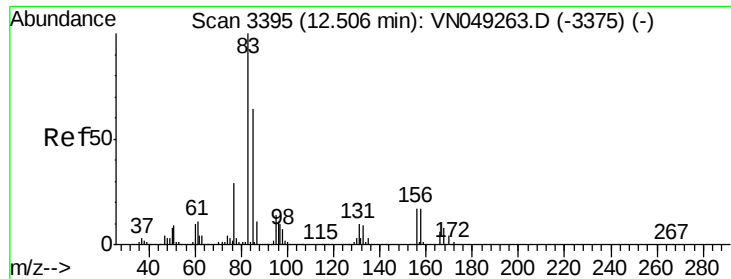
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3657
Delta R.T. 0.00 min
Lab File: VN049351.D
Acq: 18 Jun 2018 18:39

Tgt Ion:152 Resp: 506870
Ion Ratio Lower Upper
152 100
115 56.8 28.7 86.1
150 156.3 0.0 351.0



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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

Instrument :

MSVOA_N

ClientSampleId :

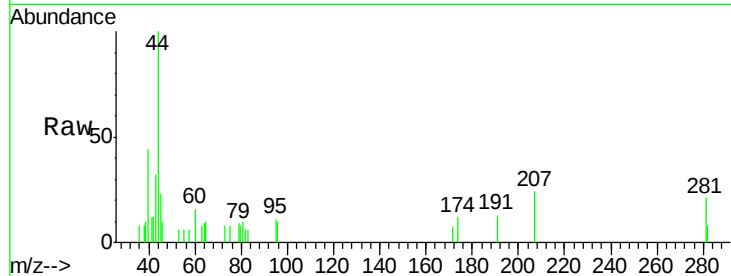
Tot Ion: 83 Resp: 62

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

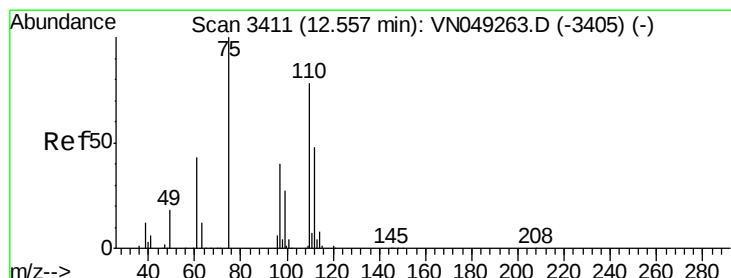
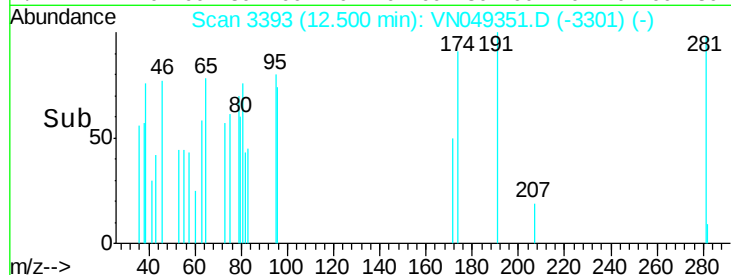
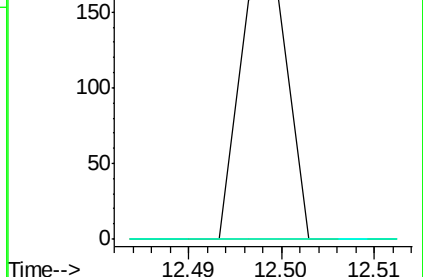
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 39.48 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. -0.15 min

Lab File: VN049351.D

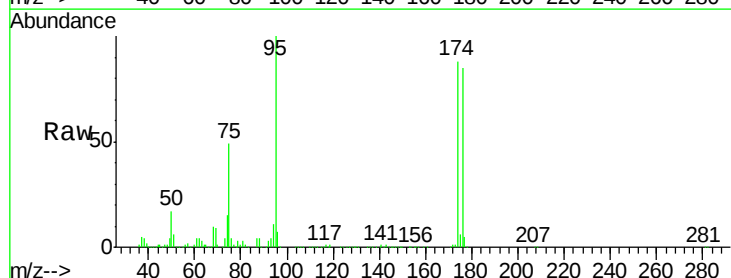
Acq: 18 Jun 2018 18:39

Tgt Ion: 75 Resp: 341473

Ion Ratio Lower Upper

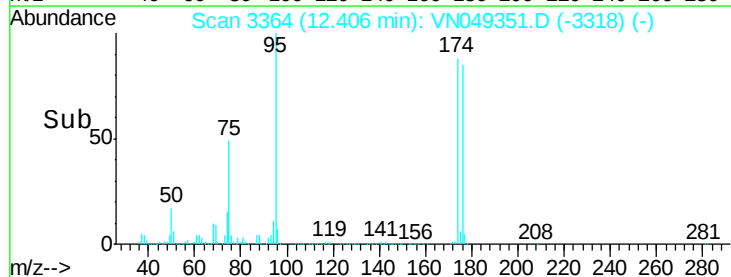
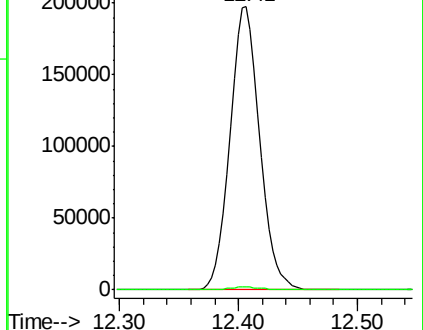
75 100

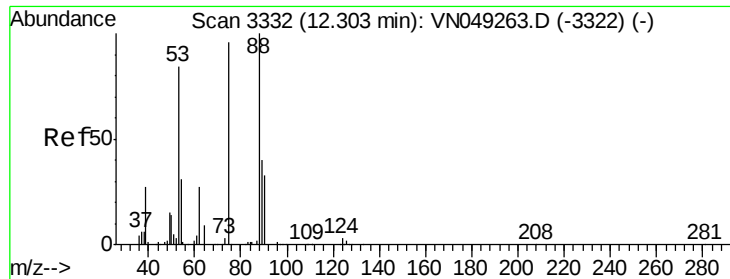
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#81

trans-1,4-Dichloro-2-butene

Concen: 124.79 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.10 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

Instrument :

MSVOA_N

ClientSampled :

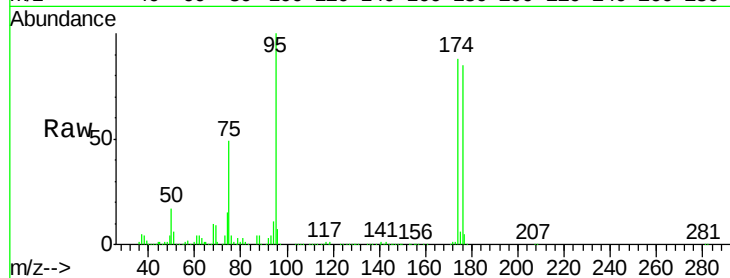
Tot Ion: 75 Resp: 341473

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

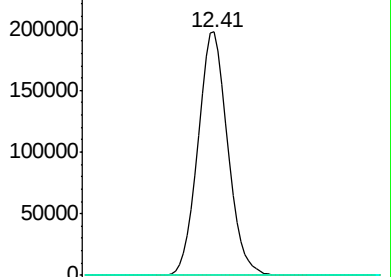
89 0.0 36.5 54.7#



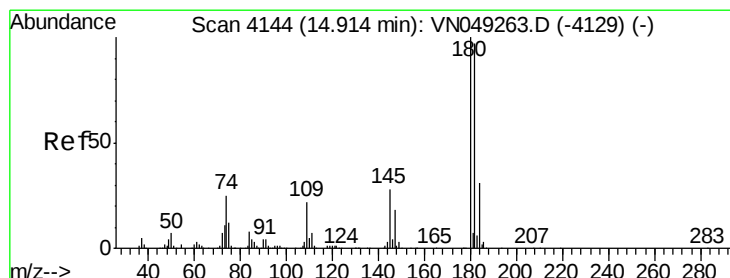
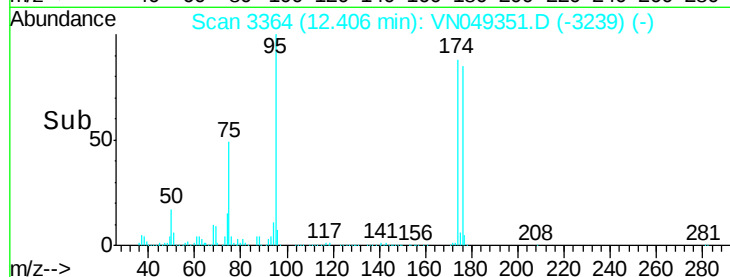
Abundance Ion 74.90 (74.60 to 75.60): VN049263.D (-3322) (-)

Ion 53.00 (52.70 to 53.70): VN049263.D (-3322) (-)

Ion 88.90 (88.60 to 89.60): VN049263.D (-3322) (-)



Time--> 12.30 12.40 12.50



#93

1,2,4-Trichlorobenzene

Concen: 4.75 ug/l

RT: 14.93 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

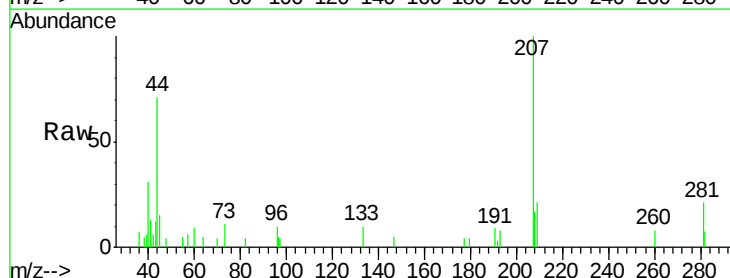
Tgt Ion: 180 Resp: 67

Ion Ratio Lower Upper

180 100

182 353.7 46.9 140.8#

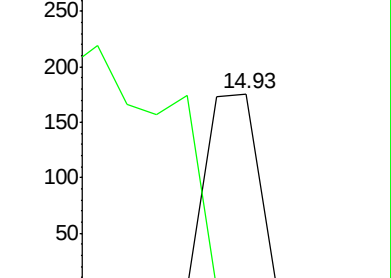
145 0.0 14.7 44.1#



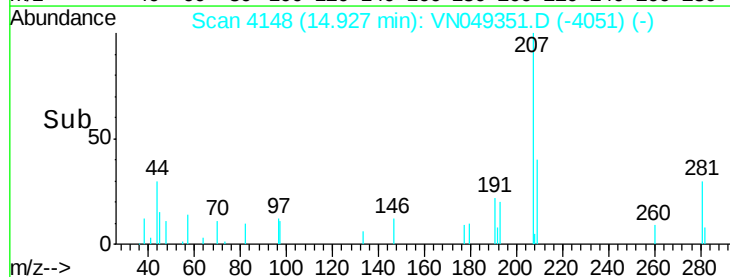
Abundance Ion 179.80 (179.50 to 180.50): VN049263.D (-4129) (-)

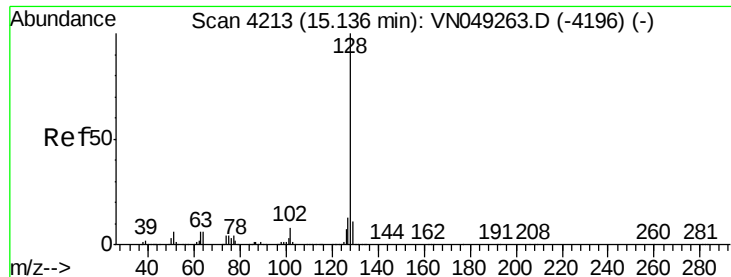
Ion 181.80 (181.50 to 182.50): VN049263.D (-4129) (-)

Ion 144.80 (144.50 to 145.50): VN049263.D (-4129) (-)



Time--> 14.91 14.92 14.93





#95

Naphthalene

Concen: 2.18 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

Instrument :

MSVOA_N

ClientSampled :

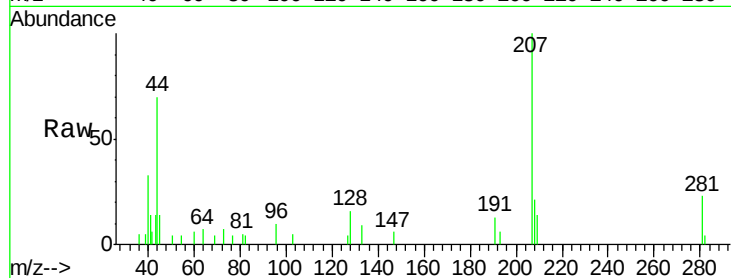
Tot Ion:128 Resp: 1422

Ion Ratio Lower Upper

128 100

127 8.1 10.6 16.0#

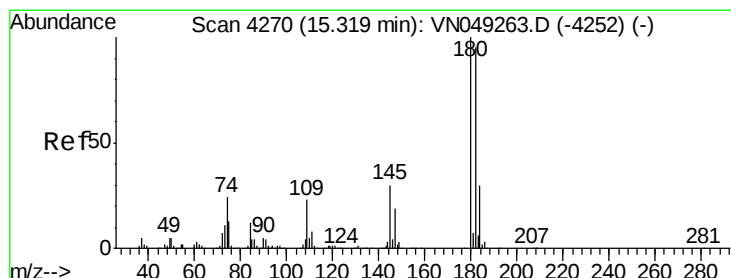
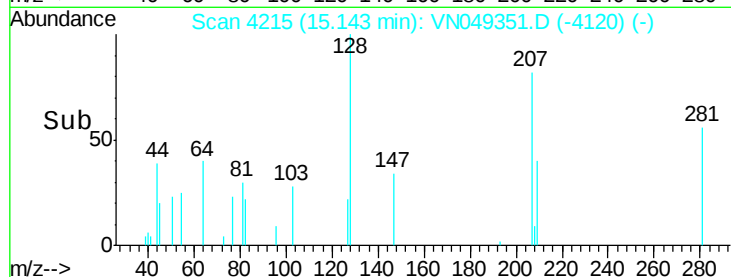
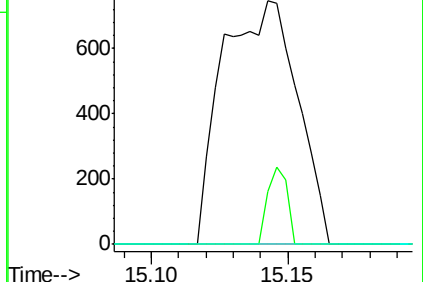
129 0.0 8.5 12.7#



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: 3.47 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN049351.D

Acq: 18 Jun 2018 18:39

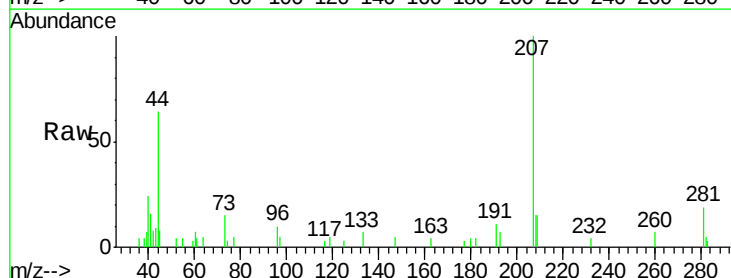
Tgt Ion:180 Resp: 139

Ion Ratio Lower Upper

180 100

182 97.8 47.3 141.8

145 0.0 15.6 46.7#



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

