

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061618\
 Data File : VN049267.D
 Acq On : 15 Jun 2018 18:51
 Operator : MD\SY
 Sample : VN0616WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 16 01:21:53 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	1643605	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2532595	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2138130	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	638375	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	1047403	48.05	ug/l	0.00
Spiked Amount			Recovery	=	96.10%	
35) Dibromofluoromethane	7.59	113	960298	46.87	ug/l	0.00
Spiked Amount			Recovery	=	93.74%	
50) Toluene-d8	10.09	98	3563155	45.67	ug/l	0.00
Spiked Amount			Recovery	=	91.34%	
62) 4-Bromofluorobenzene	12.40	95	933145	36.17	ug/l	0.00
Spiked Amount			Recovery	=	72.34%	

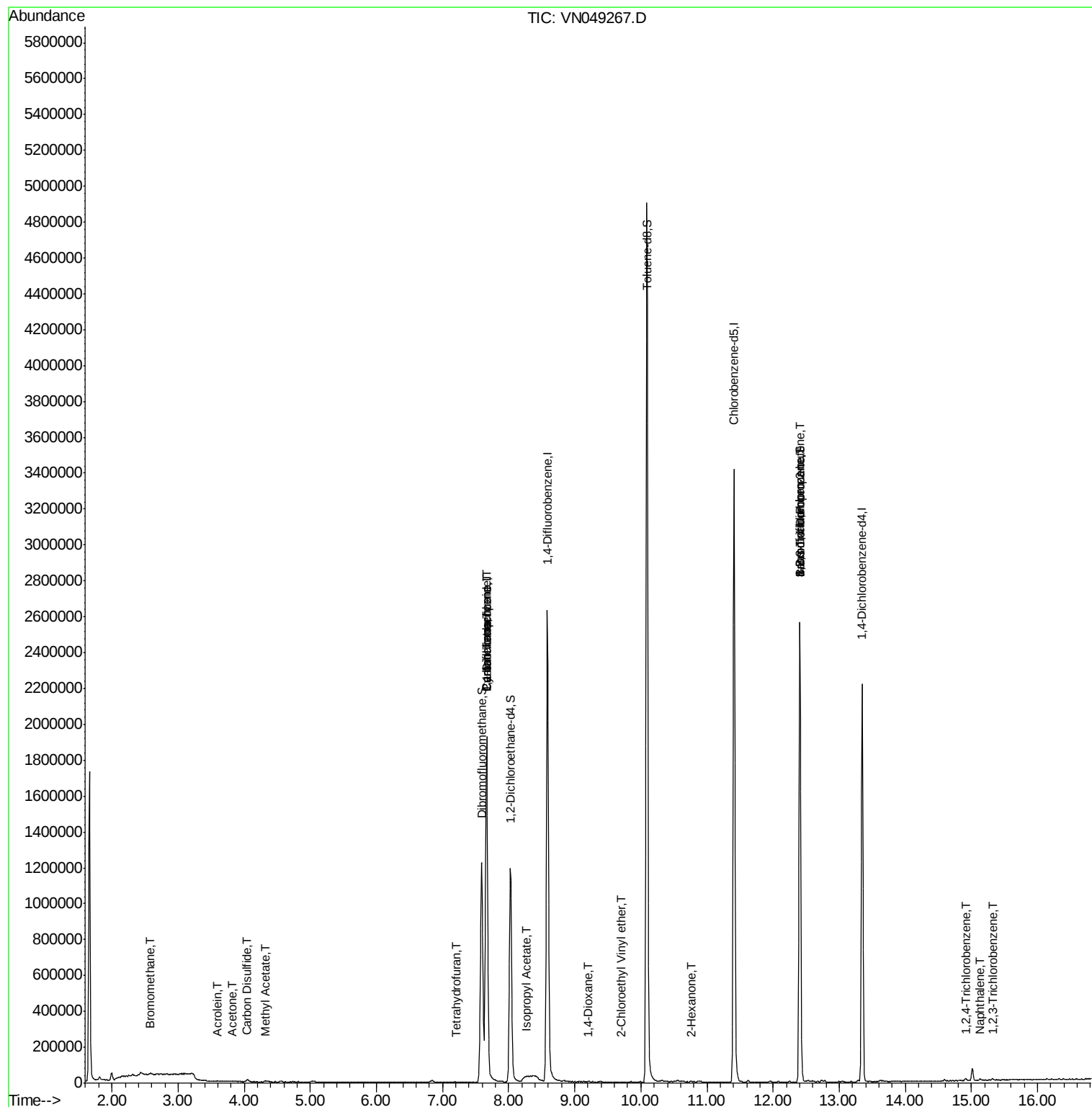
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	5719	0.42	ug/l	98
13) Acrolein	3.60	56	939	0.70	ug/l #	49
16) Acetone	3.83	43	4263	0.81	ug/l #	55
17) Carbon Disulfide	4.04	76	23749	0.40	ug/l	98
18) Methyl Acetate	4.33	43	5574	0.35	ug/l	94
29) Tetrahydrofuran	7.21	42	1351	0.30	ug/l #	63
31) Cyclohexane	7.66	56	28224	0.70	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	117129	4.04	ug/l #	50
38) Carbon Tetrachloride	7.67	117	149138	4.96	ug/l #	17
43) Isopropyl Acetate	8.26	43	28912	0.96	ug/l #	64
49) 1,4-Dioxane	9.20	88	565	2.88	ug/l	88
58) 2-Chloroethyl Vinyl ether	9.71	63	106	14.34	ug/l #	51
59) 2-Hexanone	10.77	43	6168	0.61	ug/l	72
71) Bromoform	12.40	173	5842	0.44	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.51	83	528	Below	Cal #	44
76) 1,2,3-Trichloropropane	12.40	75	449221	41.24	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	449221	130.35	ug/l #	8
90) Hexachloroethane	13.62	117	307	Below	Cal #	9
93) 1,2,4-Trichlorobenzene	14.91	180	3434	5.03	ug/l	92
94) Hexachlorobutadiene	15.01	225	14323	Below	Cal	94
95) Naphthalene	15.14	128	6689	2.46	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.32	180	2852	3.71	ug/l	92

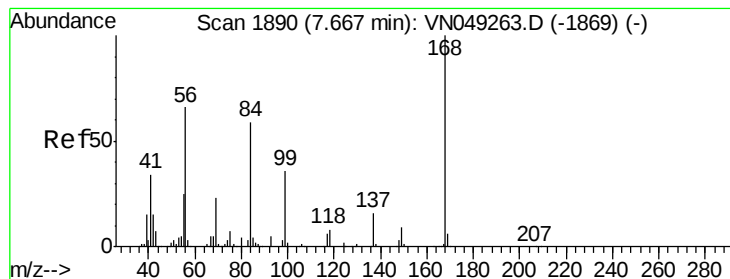
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN061618\
Data File : VN049267.D
Acq On : 15 Jun 2018 18:51
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ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jun 16 01:21:53 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# 1890

Delta R.T. 0.00 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

Instrument :

MSVOA_N

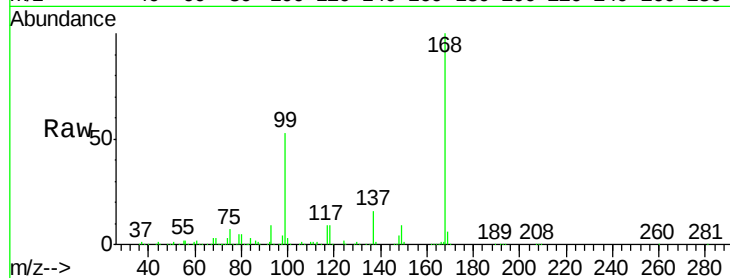
ClientSampleId :

Tot Ion:168 Resp: 1643605

Ion Ratio Lower Upper

168 100

99 52.7 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

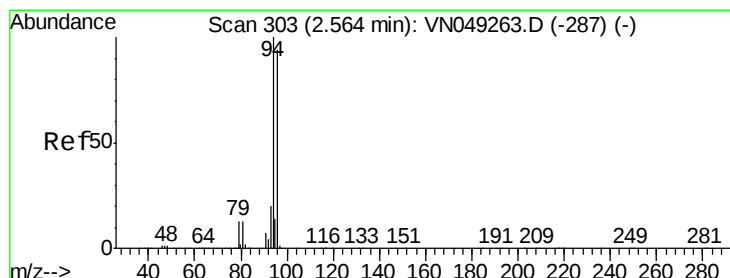
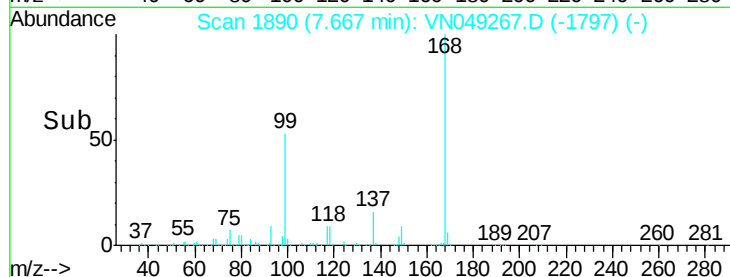
600000

400000

200000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: 0.42 ug/l

RT: 2.58 min Scan# 307

Delta R.T. 0.01 min

Lab File: VN049267.D

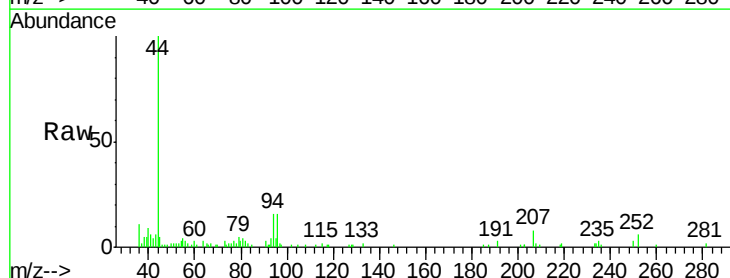
Acq: 15 Jun 2018 18:51

Tgt Ion: 94 Resp: 5719

Ion Ratio Lower Upper

94 100

96 89.3 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.58

3000

2500

2000

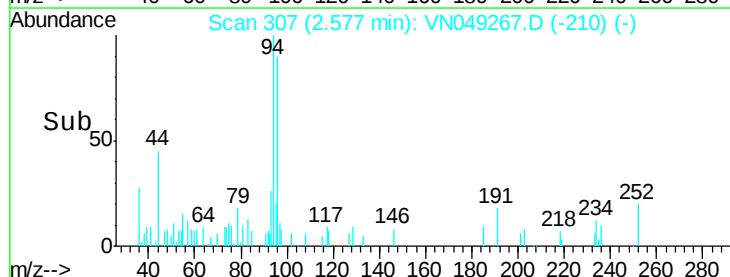
1500

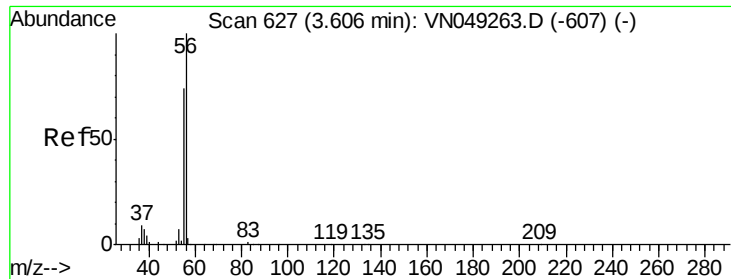
1000

500

0

Time--> 2.50 2.55 2.60





#13

Acrolein

Concen: 0.70 ug/l

RT: 3.60 min Scan# 625

Delta R.T. -0.01 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

Instrument :

MSVOA_N

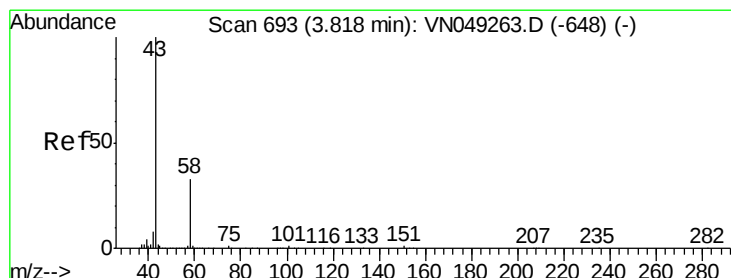
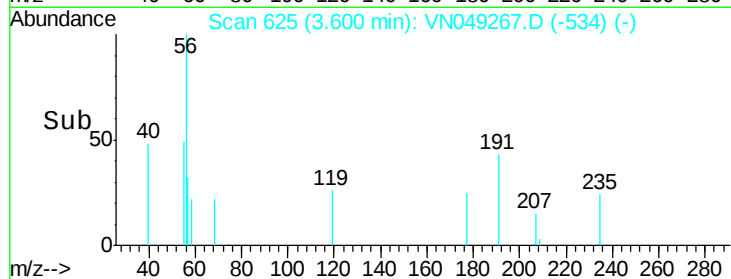
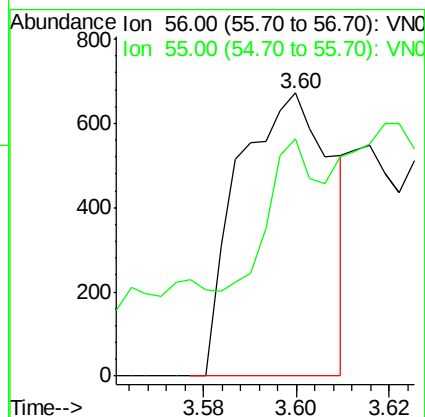
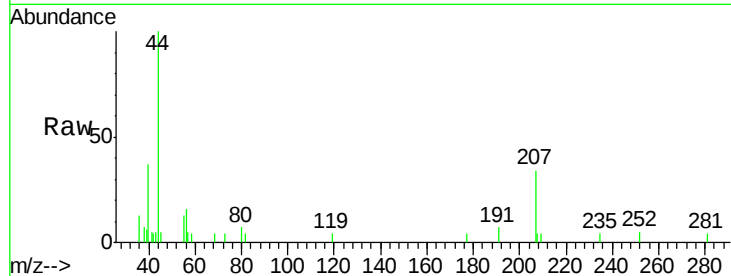
ClientSampled :

Tot Ion: 56 Resp: 939

Ion Ratio Lower Upper

56 100

55 29.0 57.1 85.7#



#16

Acetone

Concen: 0.81 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049267.D

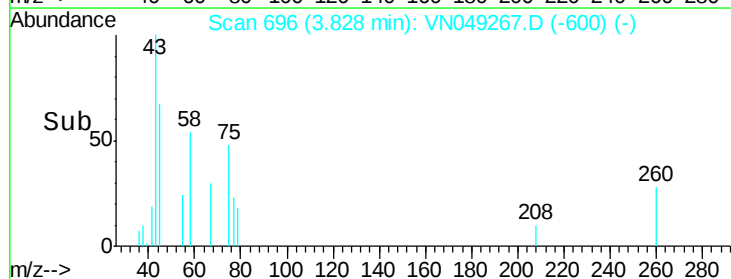
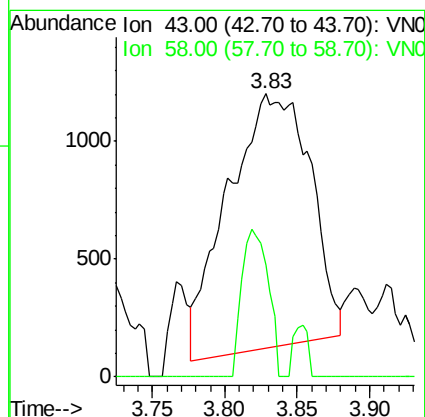
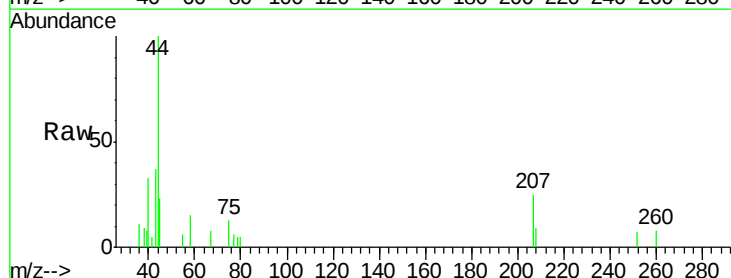
Acq: 15 Jun 2018 18:51

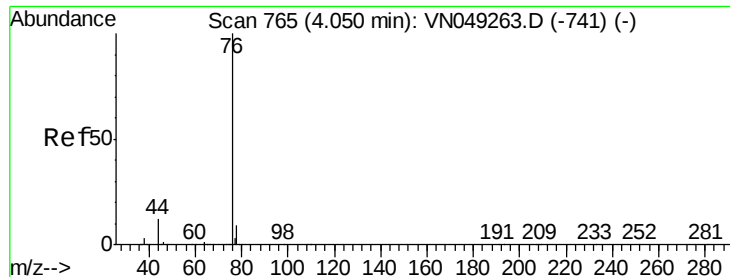
Tgt Ion: 43 Resp: 4263

Ion Ratio Lower Upper

43 100

58 51.9 22.4 33.6#

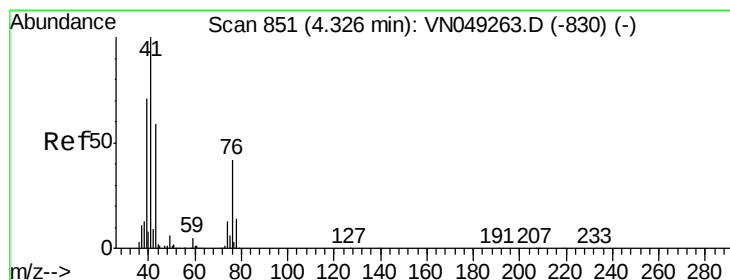
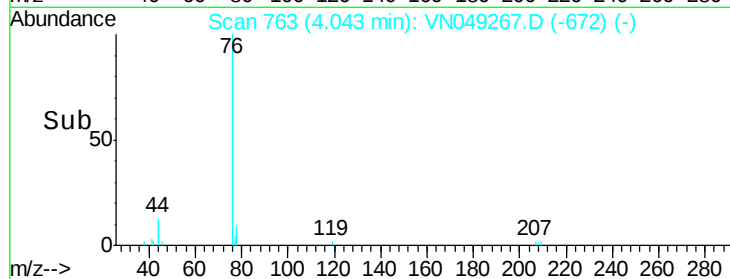
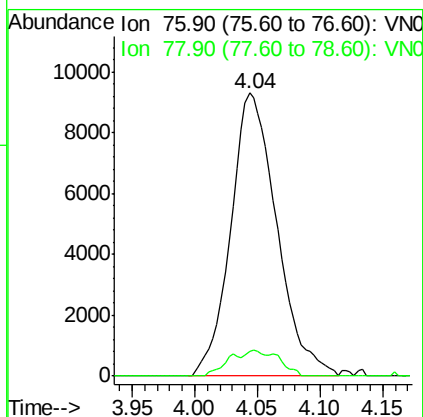
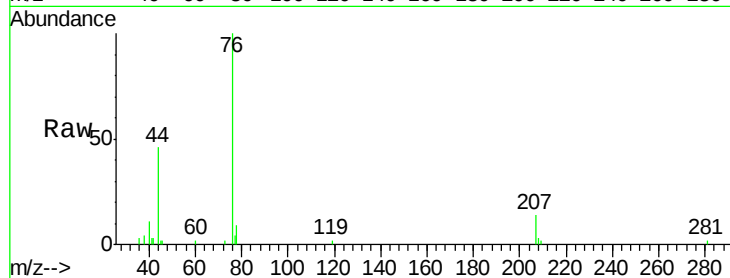




#17
Carbon Disulfide
Concen: 0.40 ug/l
RT: 4.04 min Scan# 763
Delta R.T. -0.01 min
Lab File: VN049267.D
Acq: 15 Jun 2018 18:51

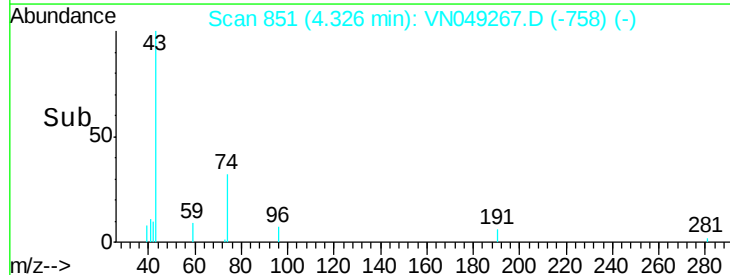
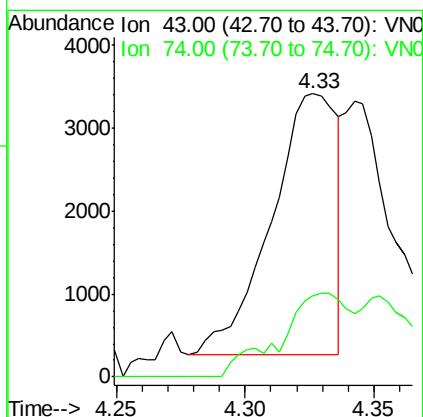
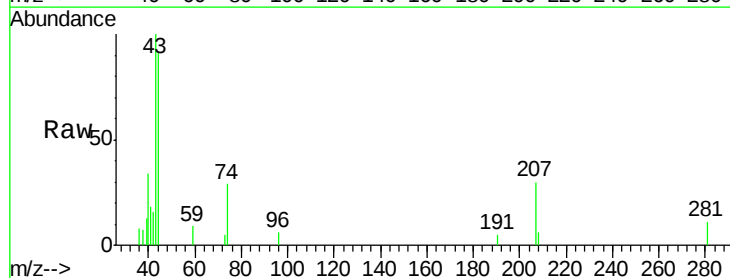
Instrument :
MSVOA_N
ClientSampled :

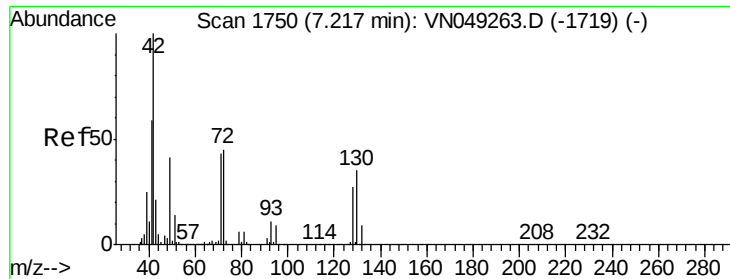
Tot Ion: 76 Resp: 23749
Ion Ratio Lower Upper
76 100
78 8.6 7.4 11.0



#18
Methyl Acetate
Concen: 0.35 ug/l
RT: 4.33 min Scan# 851
Delta R.T. 0.00 min
Lab File: VN049267.D
Acq: 15 Jun 2018 18:51

Tgt Ion: 43 Resp: 5574
Ion Ratio Lower Upper
43 100
74 18.9 17.4 26.0

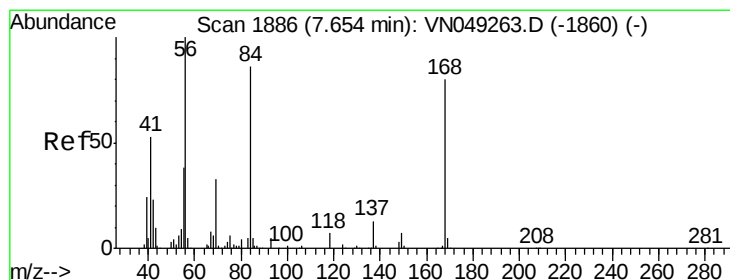
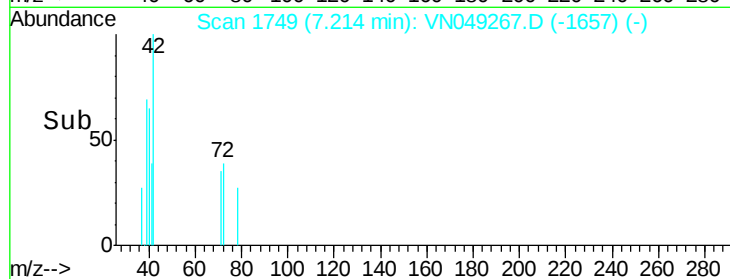
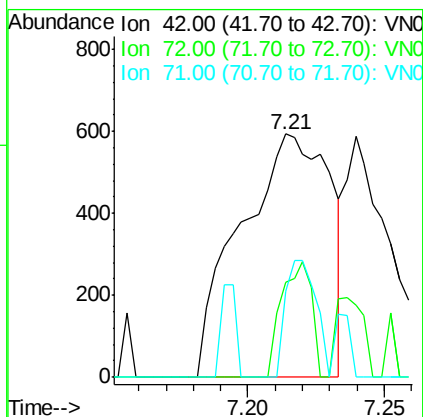
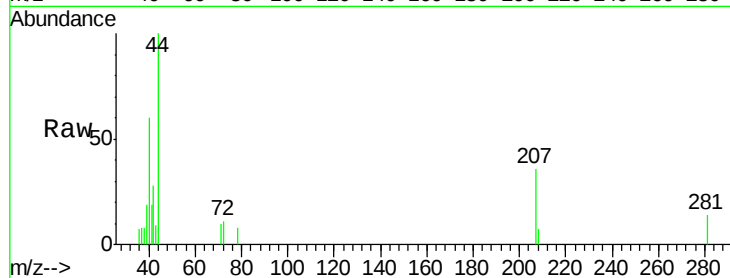




#29
Tetrahydrofuran
Concen: 0.30 ug/l
RT: 7.21 min Scan# 1749
Delta R.T. -0.00 min
Lab File: VN049267.D
Acq: 15 Jun 2018 18:51

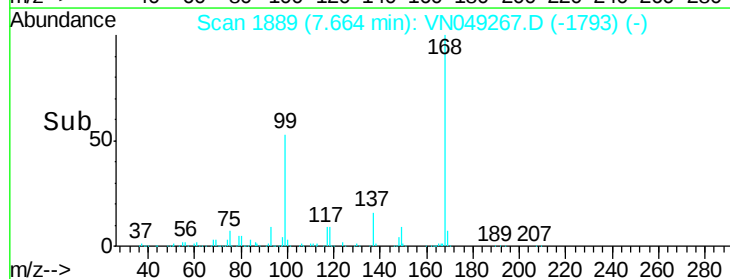
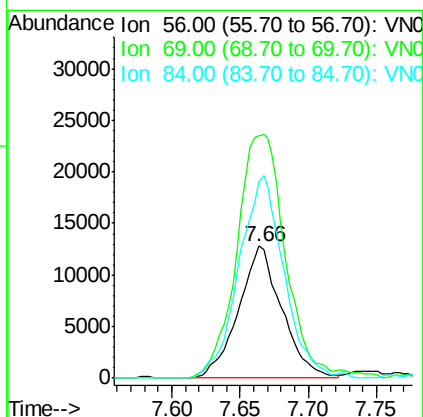
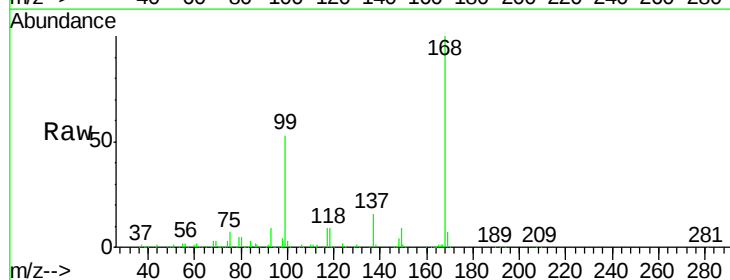
Instrument :
MSVOA_N
ClientSampleId :

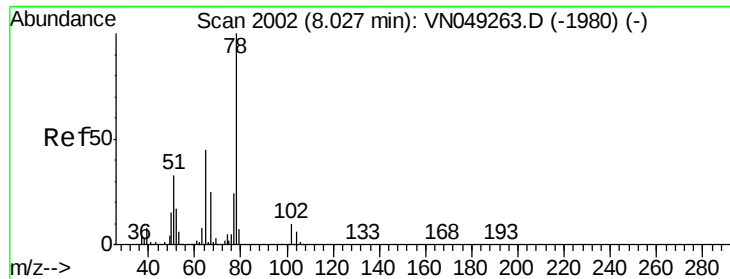
Tot Ion: 42 Resp: 1351
Ion Ratio Lower Upper
42 100
72 16.1 32.2 48.4#
71 16.7 30.5 45.7#



#31
Cyclohexane
Concen: 0.70 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049267.D
Acq: 15 Jun 2018 18:51

Tgt Ion: 56 Resp: 28224
Ion Ratio Lower Upper
56 100
69 183.7 25.0 37.4#
84 148.9 64.6 96.8#





#33

1,2-Dichloroethane-d4

Concen: 48.05 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. 0.00 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

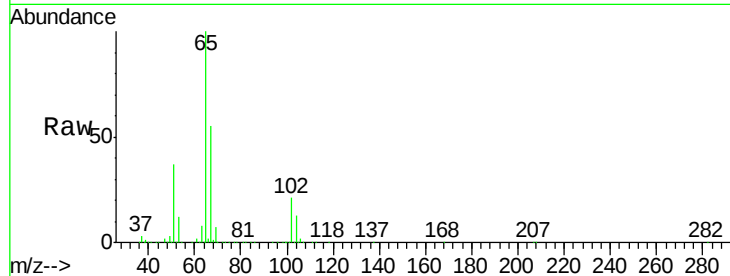
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 1047403

Ion Ratio Lower Upper

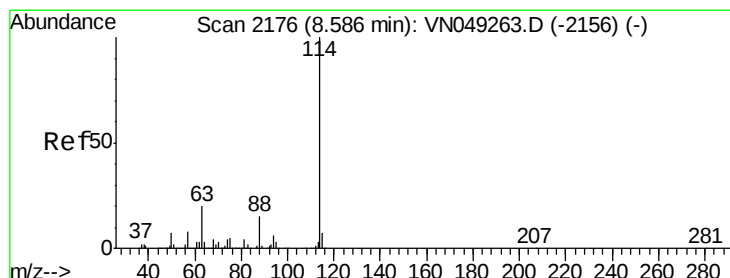
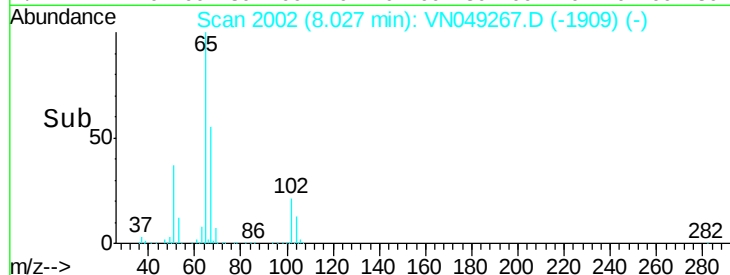
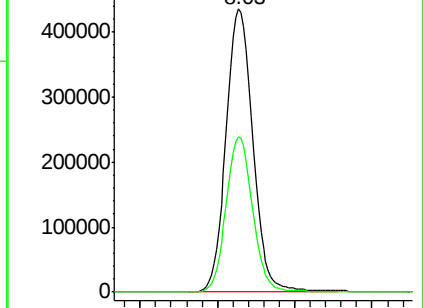
65 100

67 54.0 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049267.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049267.D (-1909) (-)



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

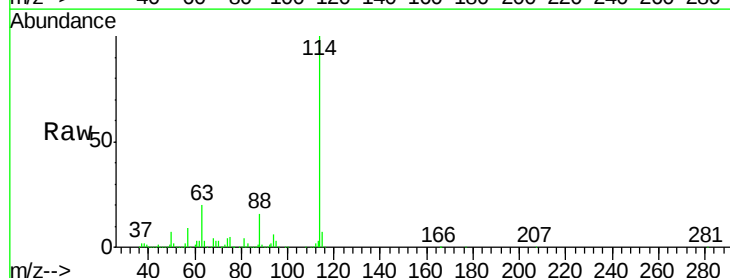
Tgt Ion: 114 Resp: 2532595

Ion Ratio Lower Upper

114 100

63 19.7 0.0 44.4

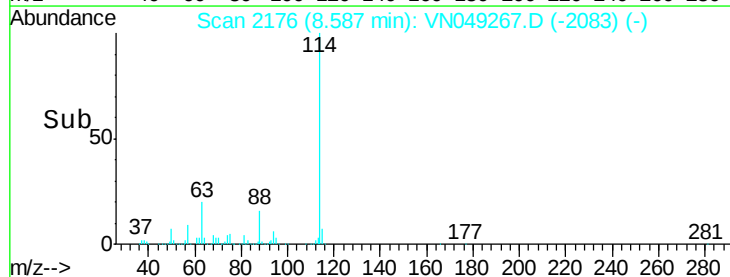
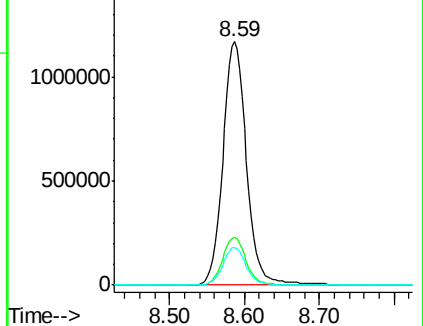
88 15.5 0.0 31.4

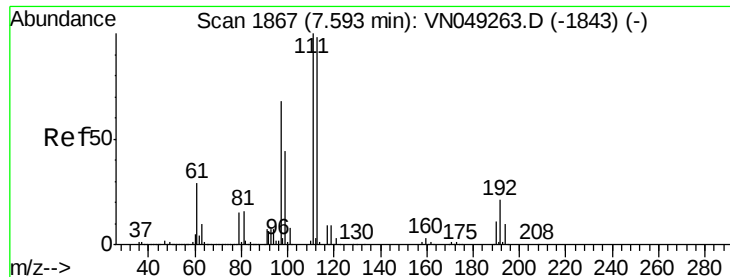


Abundance Ion 113.90 (113.60 to 114.60): VN049267.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049267.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049267.D (-2083) (-)





#35

Dibromofluoromethane

Concen: 46.87 ug/l

RT: 7.59 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

Instrument :
MSVOA_N
ClientSampled :

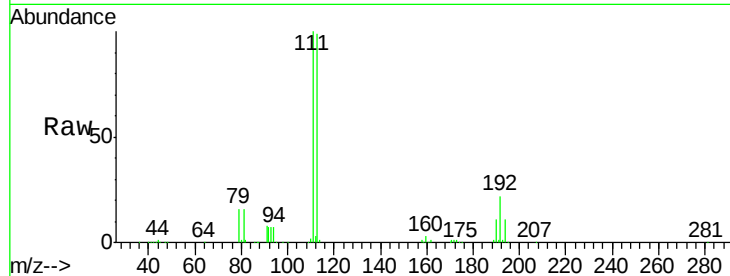
Tot Ion:113 Resp: 960298

Ion Ratio Lower Upper

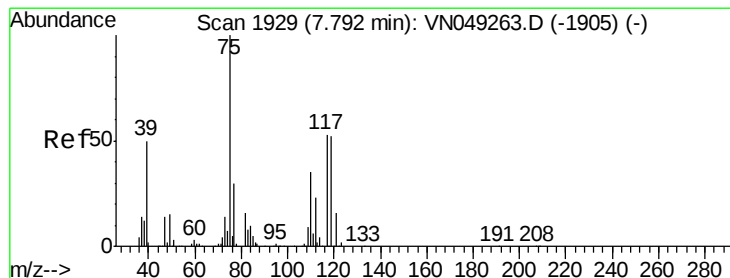
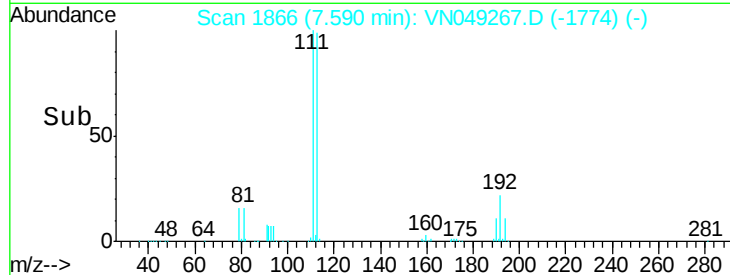
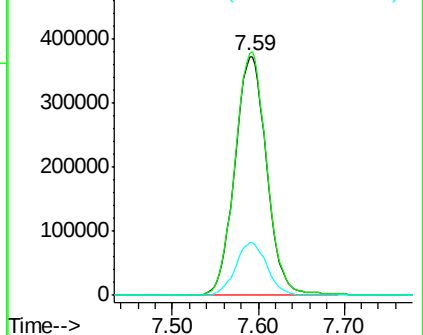
113 100

111 101.8 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: 4.04 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.13 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

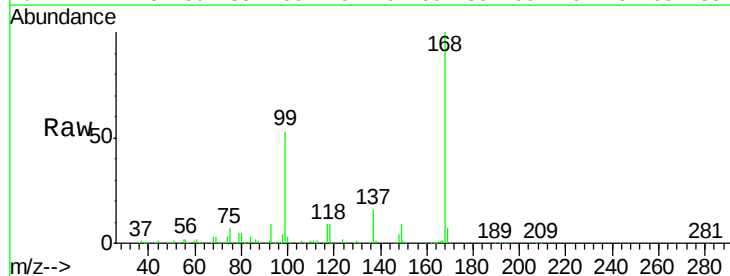
Tgt Ion: 75 Resp: 117129

Ion Ratio Lower Upper

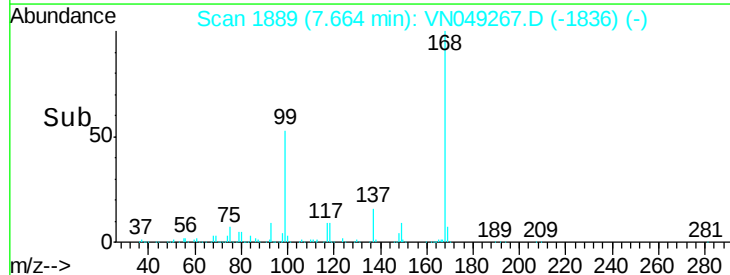
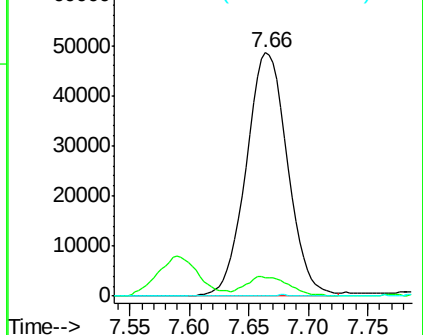
75 100

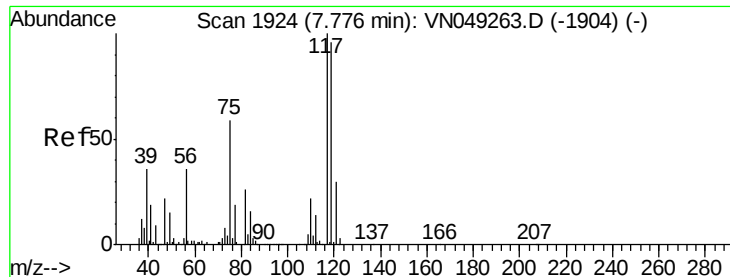
110 8.4 17.0 50.9#

77 0.1 24.4 36.6#



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





#38

Carbon Tetrachloride

Concen: 4.96 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

Instrument :

MSVOA_N

ClientSampleId :

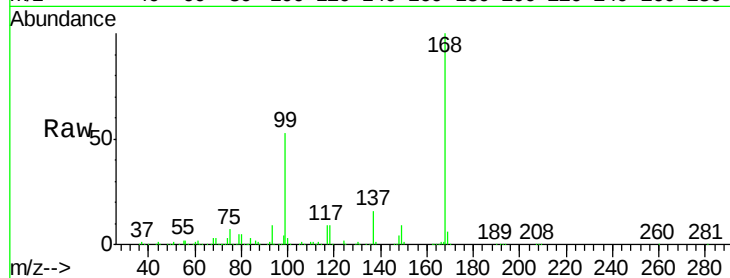
Tot Ion:117 Resp: 149138

Ion Ratio Lower Upper

117 100

119 5.3 75.6 113.4#

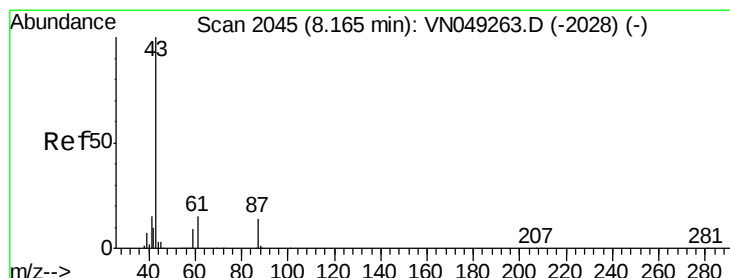
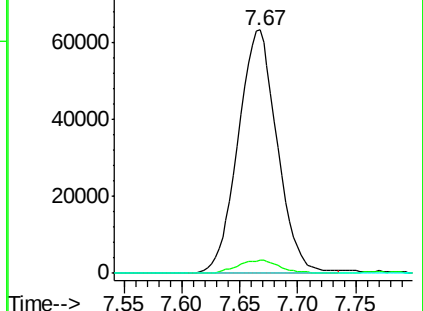
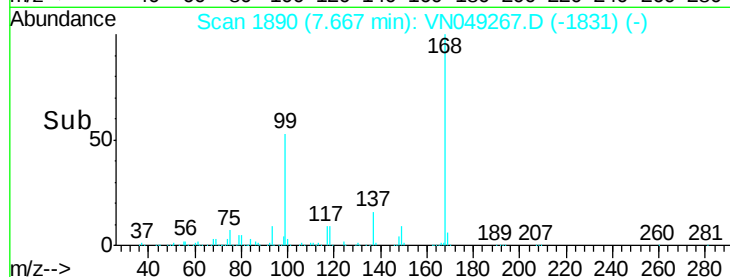
121 0.0 24.7 37.1#



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: 0.96 ug/l

RT: 8.26 min Scan# 2074

Delta R.T. 0.09 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

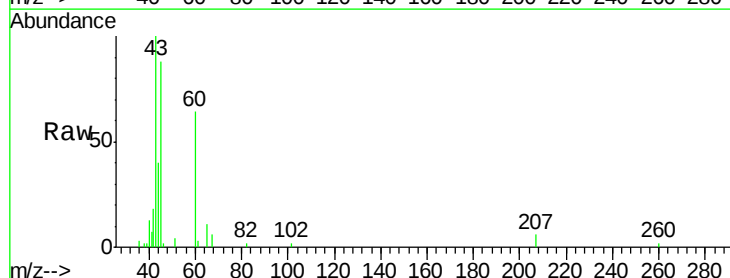
Tgt Ion: 43 Resp: 28912

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

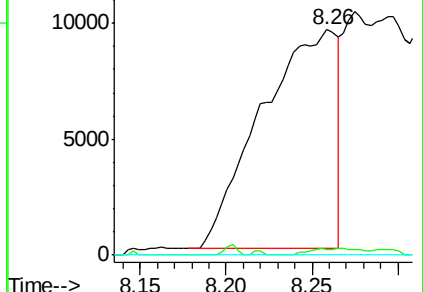
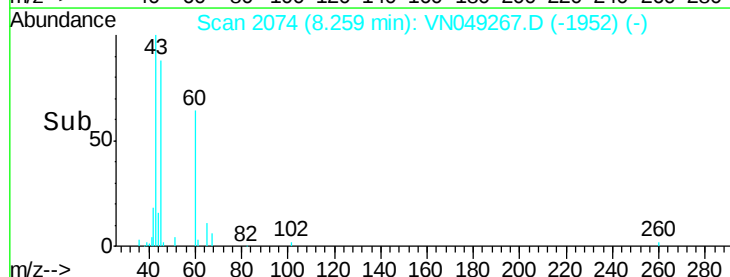
87 0.0 9.4 14.0#

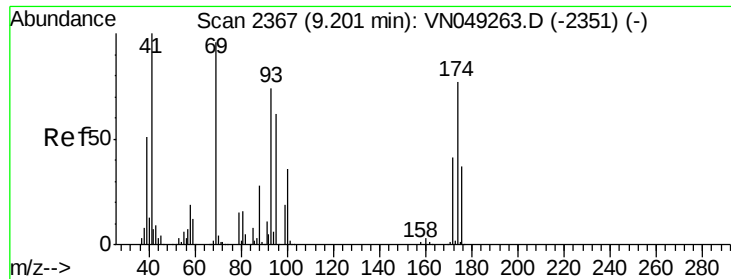


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

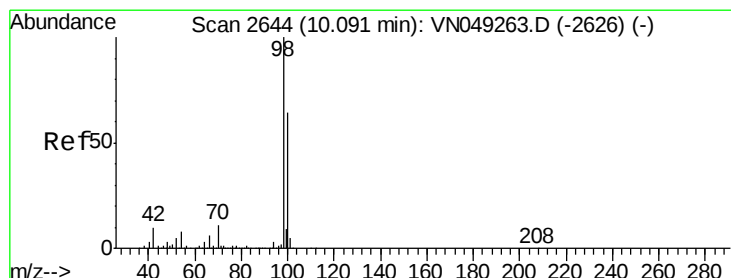
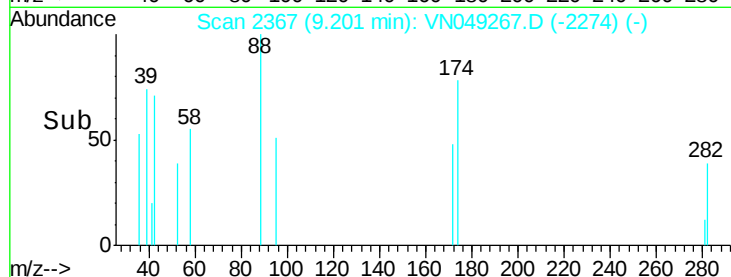
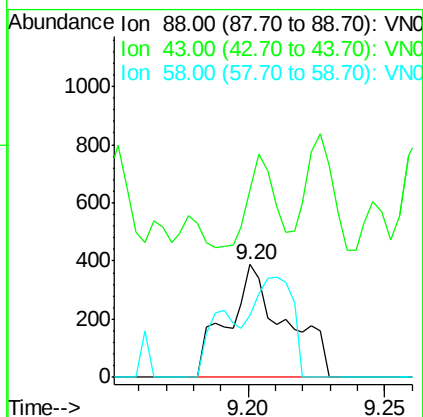
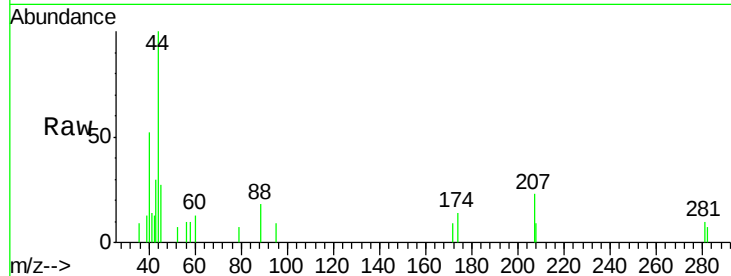




#49
1,4-Dioxane
Concen: 2.88 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN049267.D
Acq: 15 Jun 2018 18:51

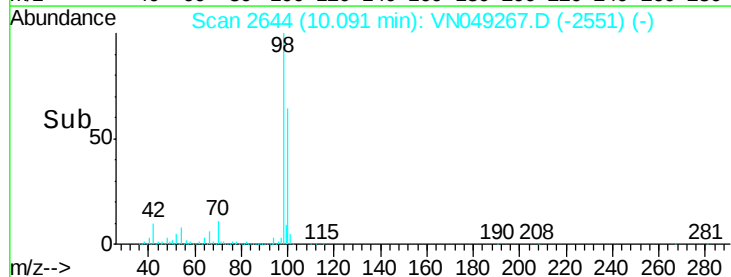
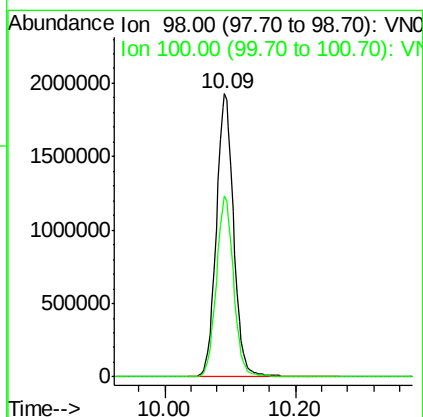
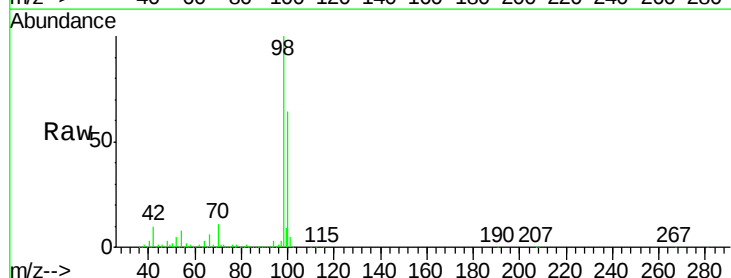
Instrument :
MSVOA_N
ClientSampled :

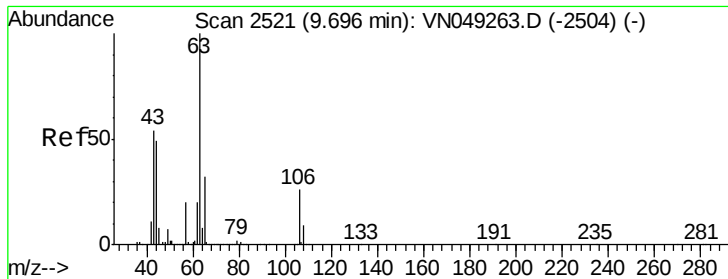
Tot Ion: 88 Resp: 565
Ion Ratio Lower Upper
88 100
43 34.9 30.9 46.3
58 60.5 58.9 88.3



#50
Toluene-d8
Concen: 45.67 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049267.D
Acq: 15 Jun 2018 18:51

Tgt Ion: 98 Resp: 3563155
Ion Ratio Lower Upper
98 100
100 63.6 49.8 74.8





#58

2-Chloroethyl Vinyl ether

Concen: 14.34 ug/l

RT: 9.71 min Scan# 2524

Delta R.T. 0.01 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

Instrument :

MSVOA_N

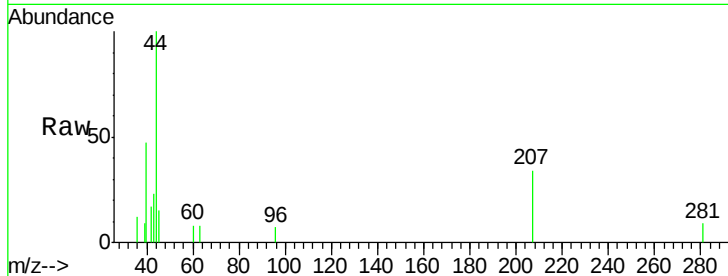
ClientSampled :

Tot Ion: 63 Resp: 106

Ion Ratio Lower Upper

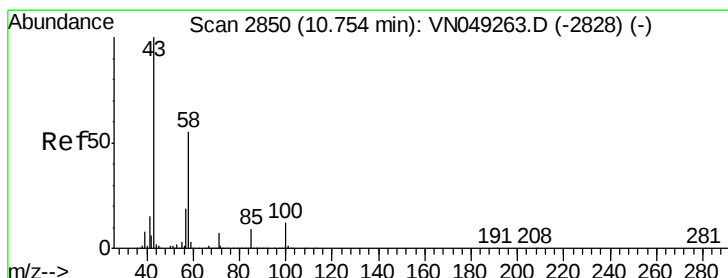
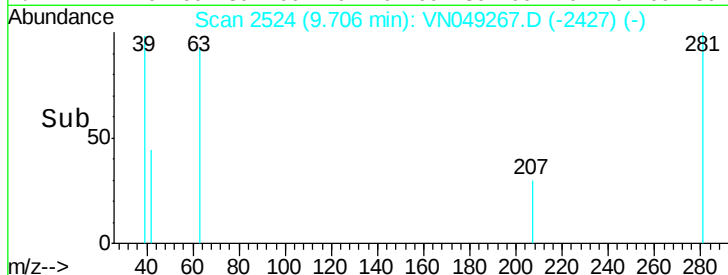
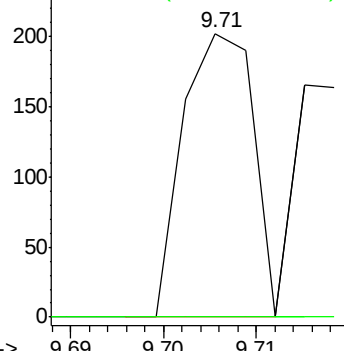
63 100

106 0.0 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): VN0



#59

2-Hexanone

Concen: 0.61 ug/l

RT: 10.77 min Scan# 2855

Delta R.T. 0.02 min

Lab File: VN049267.D

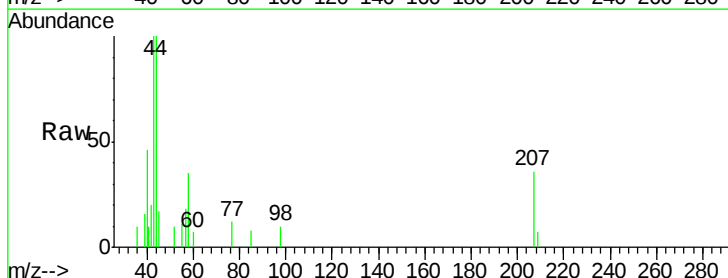
Acq: 15 Jun 2018 18:51

Tgt Ion: 43 Resp: 6168

Ion Ratio Lower Upper

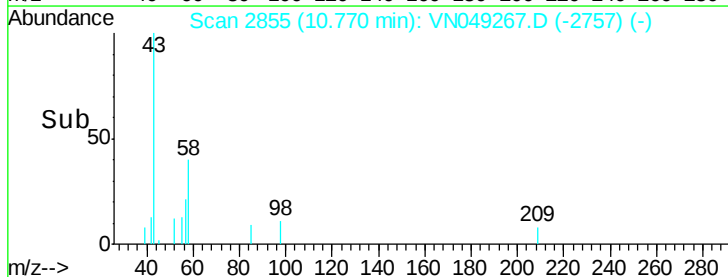
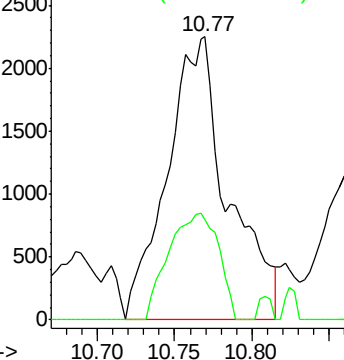
43 100

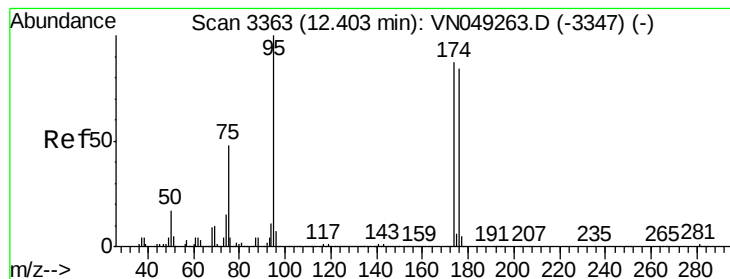
58 30.9 25.2 75.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 36.17 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

Instrument :

MSVOA_N

ClientSampleId :

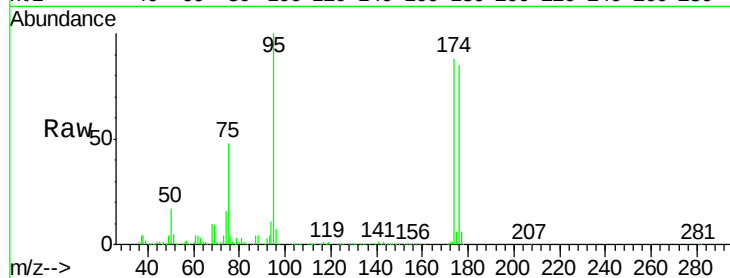
Tot Ion: 95 Resp: 933145

Ion Ratio Lower Upper

95 100

174 88.3 0.0 165.6

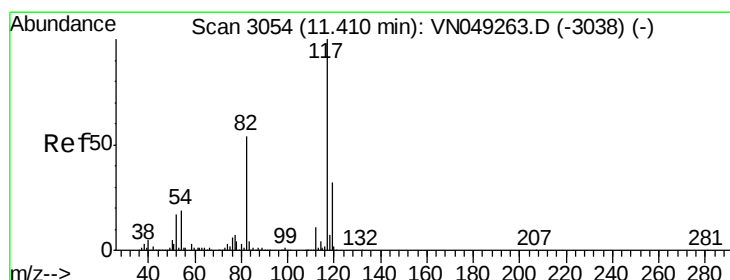
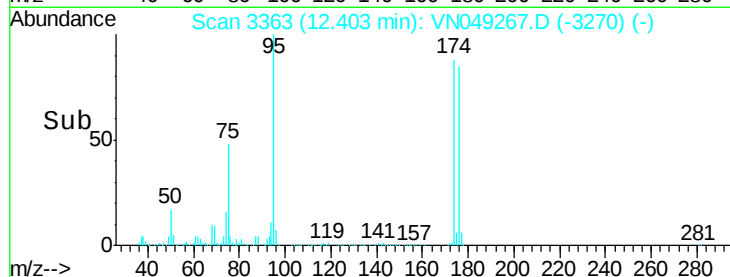
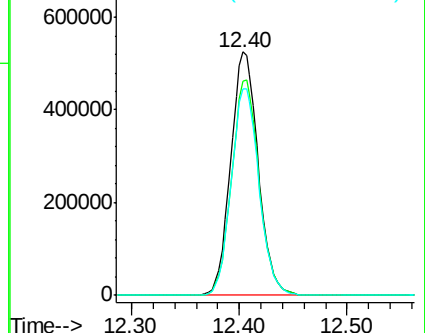
176 85.8 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049267.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN049267.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN049267.D (-3347) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

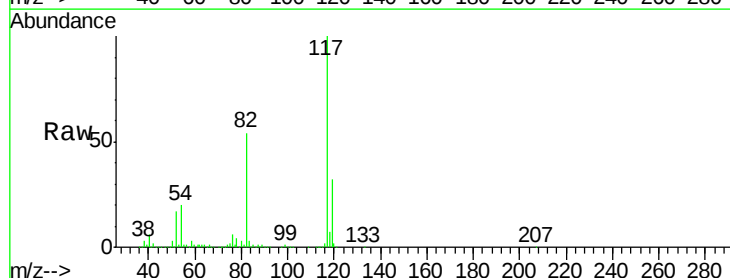
Tgt Ion: 117 Resp: 2138130

Ion Ratio Lower Upper

117 100

82 54.3 45.9 68.9

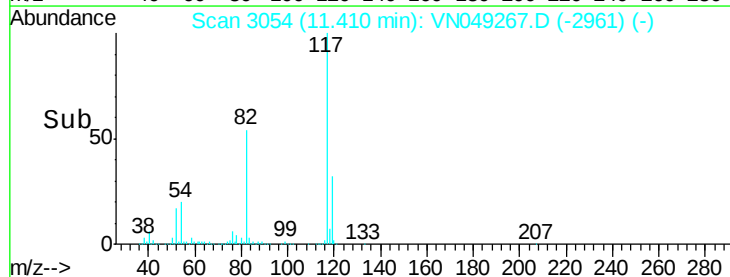
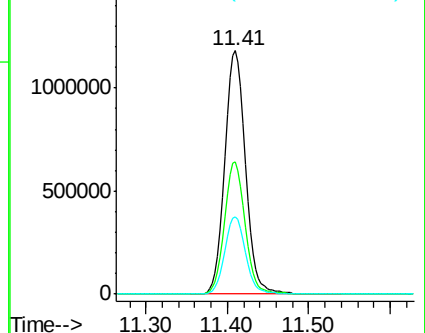
119 32.0 25.5 38.3

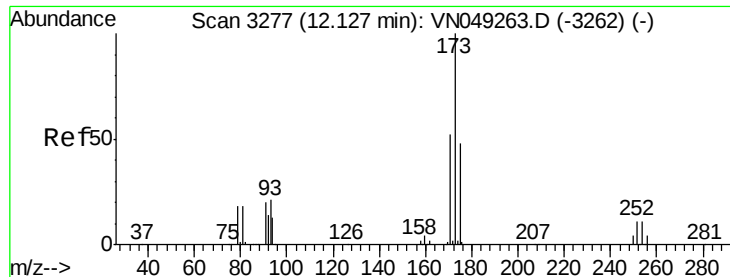


Abundance Ion 116.90 (116.60 to 117.60): VN049267.D (-2961) (-)

Ion 82.00 (81.70 to 82.70): VN049267.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN049267.D (-2961) (-)





#71

Bromoform

Concen: 0.44 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

Instrument :

MSVOA_N

ClientSampleId :

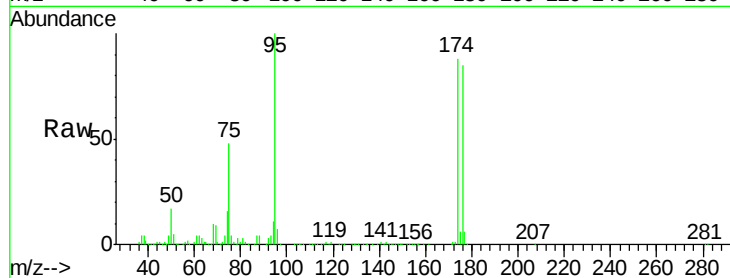
Tot Ion:173 Resp: 5842

Ion Ratio Lower Upper

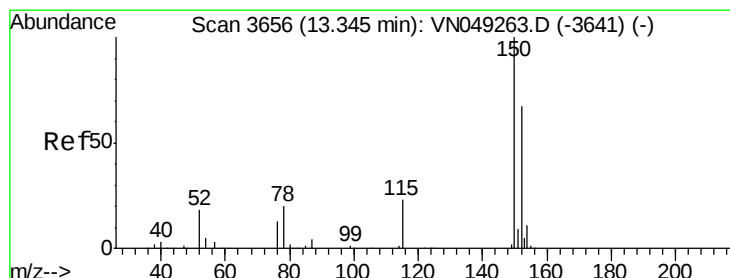
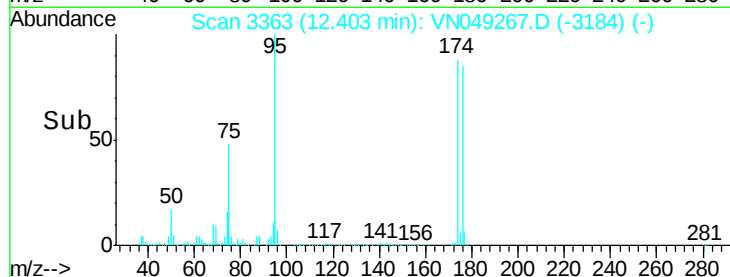
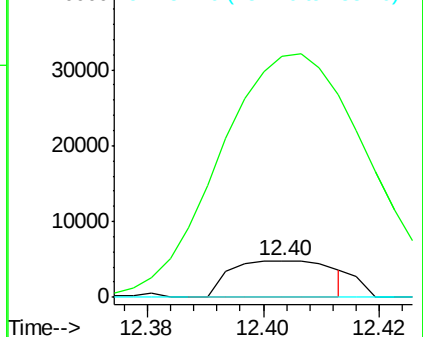
173 100

175 765.5 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: VN049267.D

Acq: 15 Jun 2018 18:51

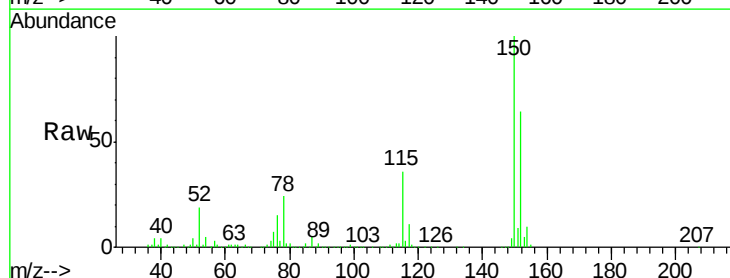
Tgt Ion:152 Resp: 638375

Ion Ratio Lower Upper

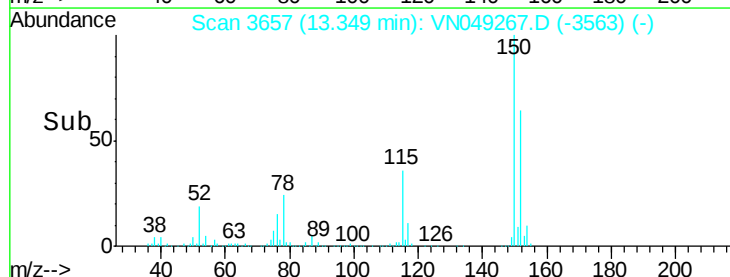
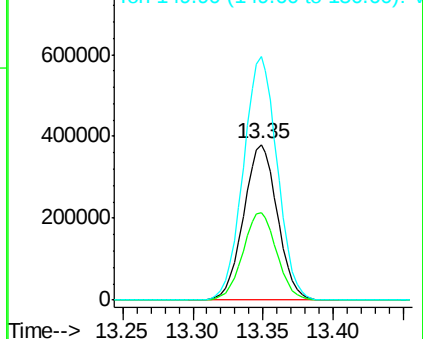
152 100

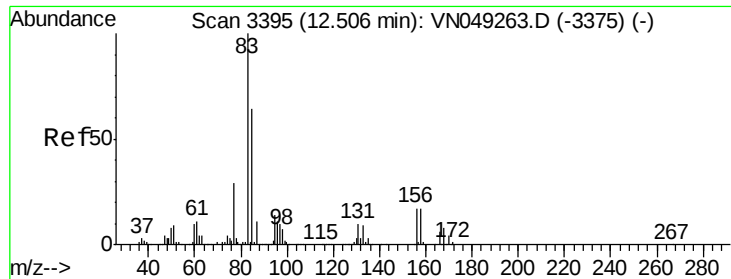
115 56.2 28.7 86.1

150 156.8 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: 12.51 min Scan# 3397

Delta R.T. 0.01 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

Instrument :

MSVOA_N

ClientSampleId :

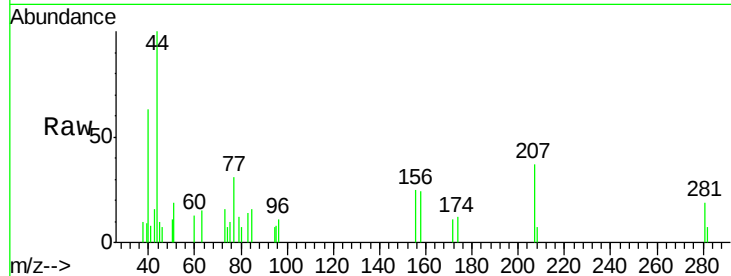
Tot Ion: 83 Resp: 528

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

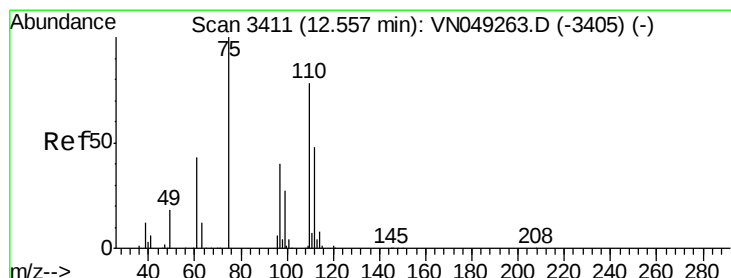
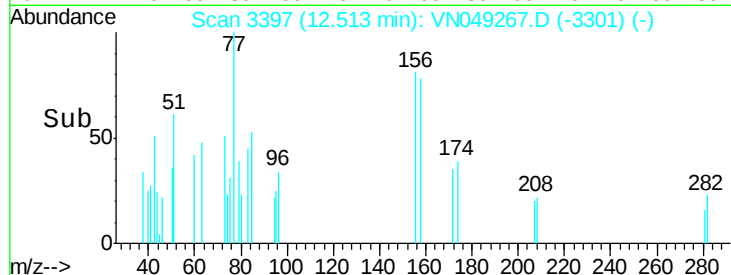
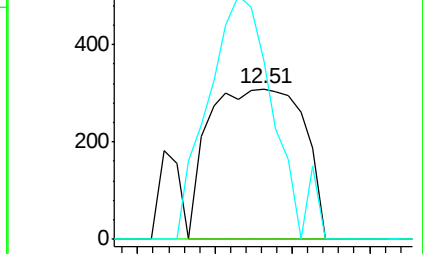
85 111.4 32.0 96.0#



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: 41.24 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049267.D

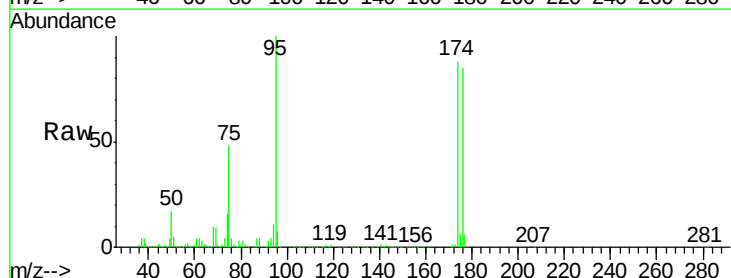
Acq: 15 Jun 2018 18:51

Tgt Ion: 75 Resp: 449221

Ion Ratio Lower Upper

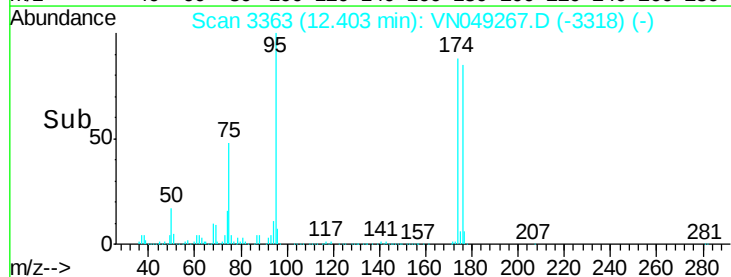
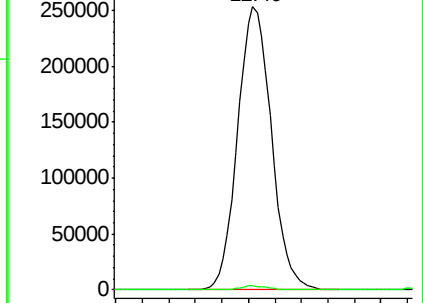
75 100

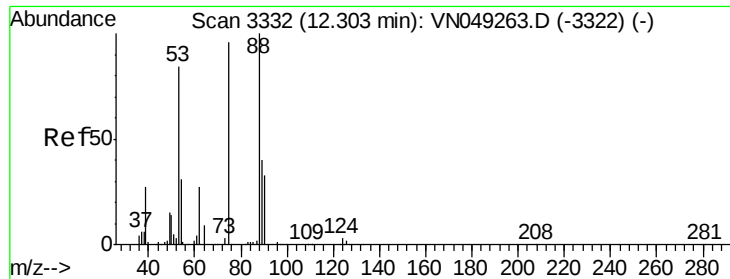
77 1.2 0.0 0.0#



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: 130.35 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

Instrument :

MSVOA_N

ClientSampleId :

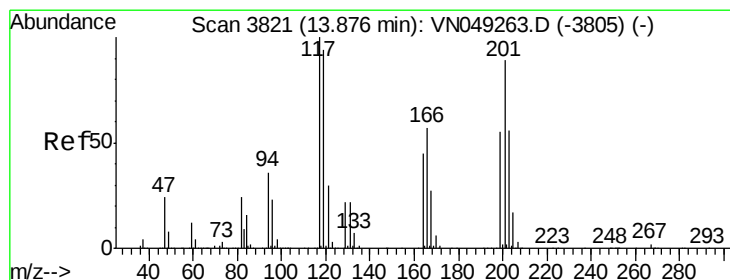
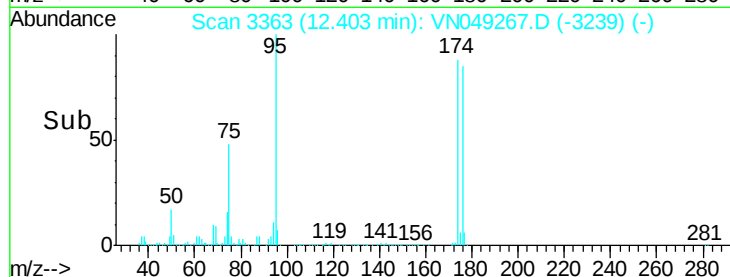
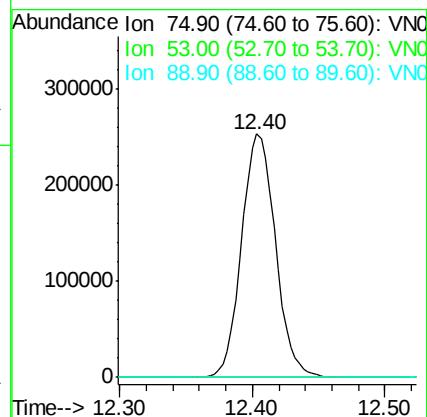
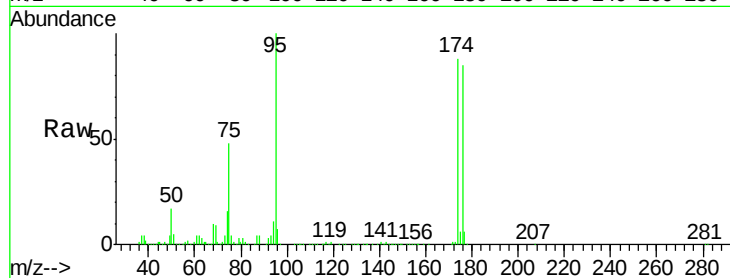
Tot Ion: 75 Resp: 449221

Ion Ratio Lower Upper

75 100

53 0.1 82.7 124.1#

89 0.0 36.5 54.7#



#90

Hexachloroethane

Concen: Below Cal

RT: 13.62 min Scan# 3742

Delta R.T. -0.25 min

Lab File: VN049267.D

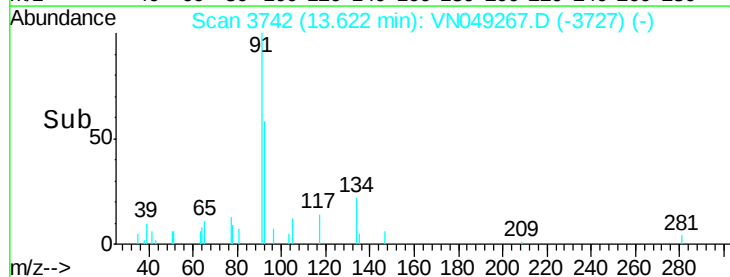
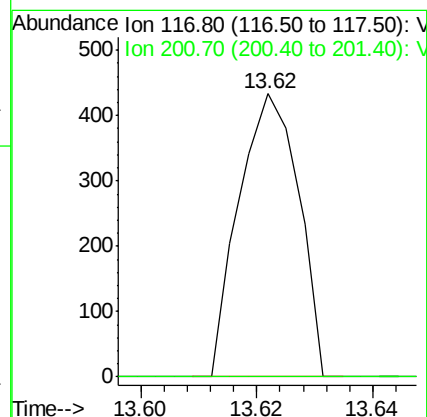
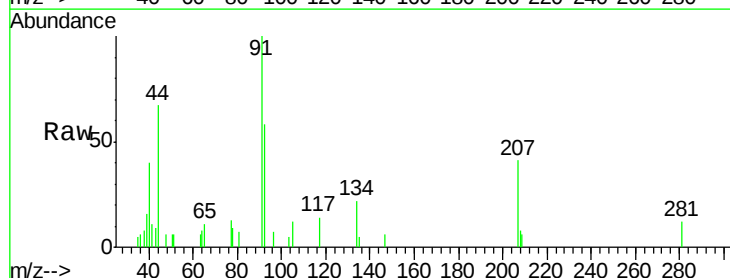
Acq: 15 Jun 2018 18:51

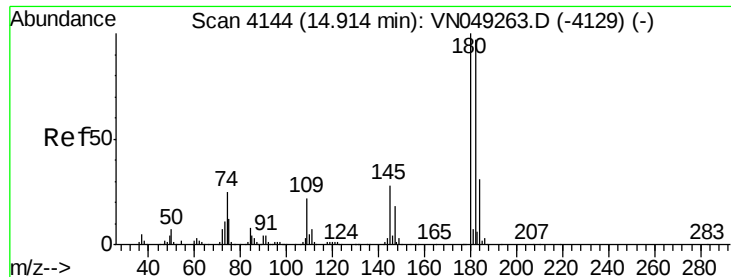
Tgt Ion: 117 Resp: 307

Ion Ratio Lower Upper

117 100

201 0.0 40.1 120.2#

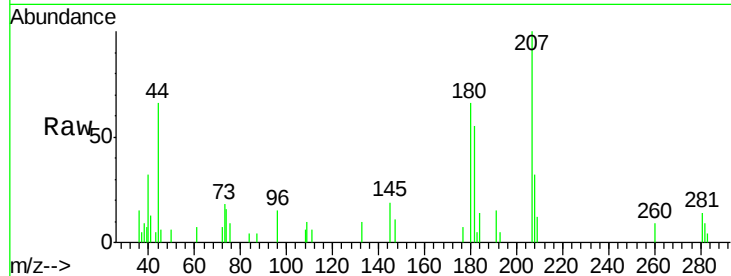




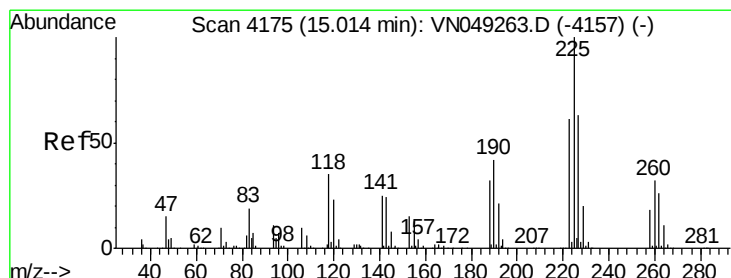
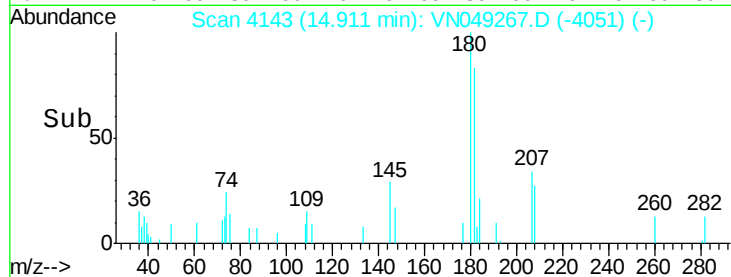
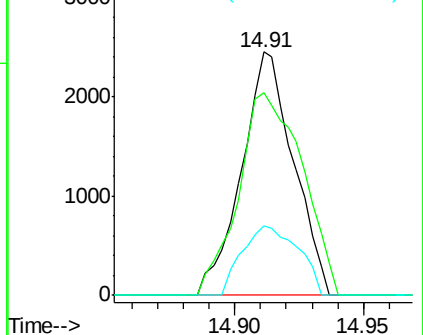
#93
 1,2,4-Trichlorobenzene
 Concen: 5.03 ua/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN049267.D
 Acq: 15 Jun 2018 18:51

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 3434
 Ion Ratio Lower Upper
 180 100
 182 102.7 46.9 140.8
 145 30.7 14.7 44.1

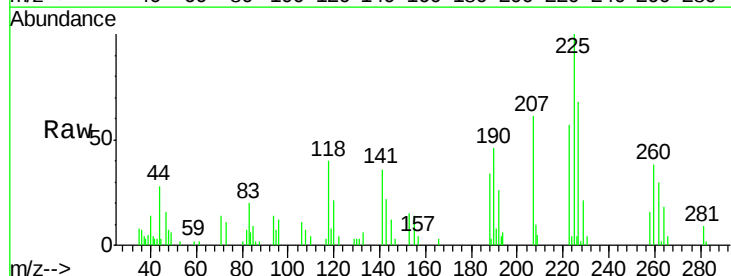


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

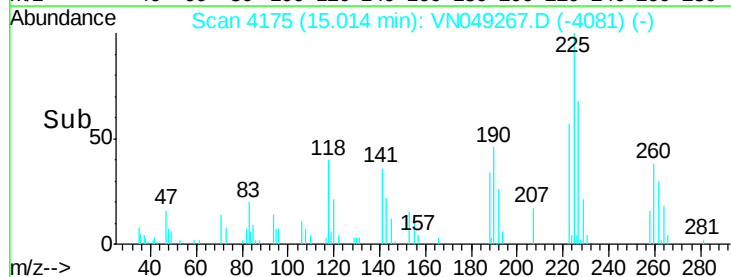
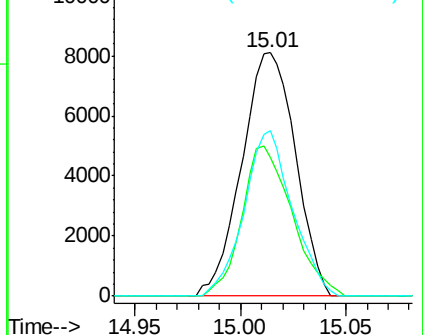


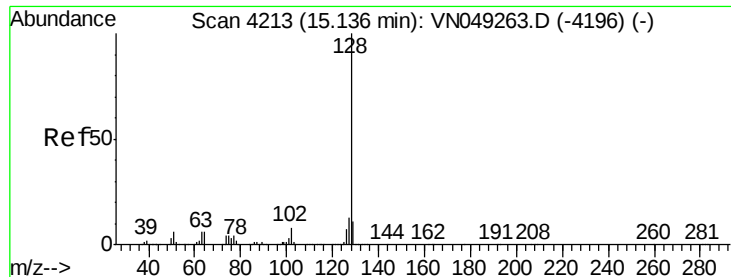
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN049267.D
 Acq: 15 Jun 2018 18:51

Tgt Ion:225 Resp: 14323
 Ion Ratio Lower Upper
 225 100
 223 57.7 32.1 96.3
 227 61.3 31.8 95.3



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: 2.46 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

Instrument :

MSVOA_N

ClientSampled :

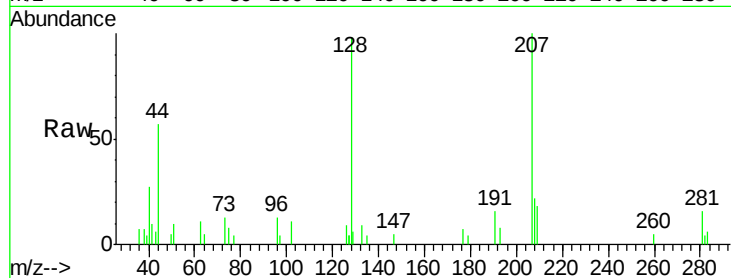
Tot Ion:128 Resp: 6689

Ion Ratio Lower Upper

128 100

127 8.0 10.6 16.0#

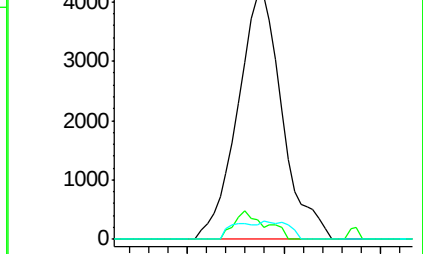
129 3.4 8.5 12.7#



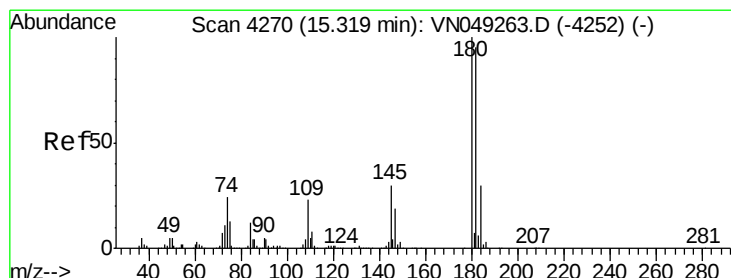
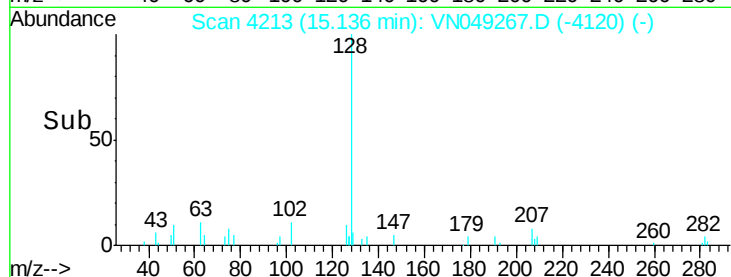
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 3.71 ug/l

RT: 15.32 min Scan# 4270

Delta R.T. 0.00 min

Lab File: VN049267.D

Acq: 15 Jun 2018 18:51

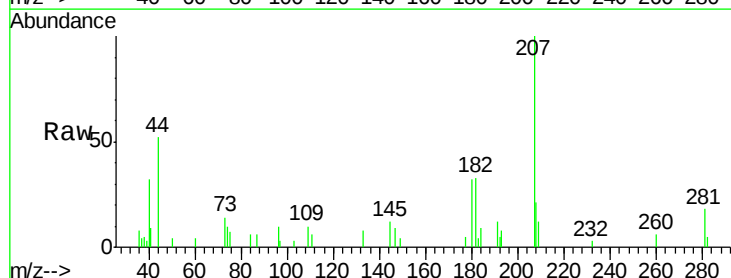
Tgt Ion:180 Resp: 2852

Ion Ratio Lower Upper

180 100

182 99.2 47.3 141.8

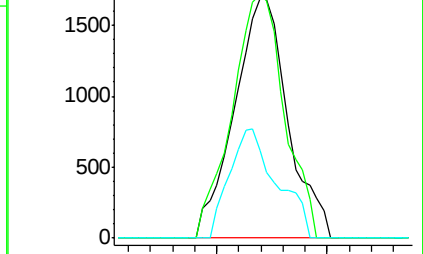
145 40.1 15.6 46.7



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



Time-->

