

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082318\
 Data File : VN050850.D
 Acq On : 23 Aug 2018 13:57
 Operator : MD\SY
 Sample : PB112301ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 24 01:10:37 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	612670	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1018300	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	851632	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	276840	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	402254	54.54	ug/l	0.00
Spiked Amount			Recovery	=	109.08%	
35) Dibromofluoromethane	7.59	113	386700	47.73	ug/l	0.00
Spiked Amount			Recovery	=	95.46%	
50) Toluene-d8	10.09	98	1382266	45.64	ug/l	0.00
Spiked Amount			Recovery	=	91.28%	
62) 4-Bromofluorobenzene	12.40	95	357742	35.54	ug/l	0.00
Spiked Amount			Recovery	=	71.08%	

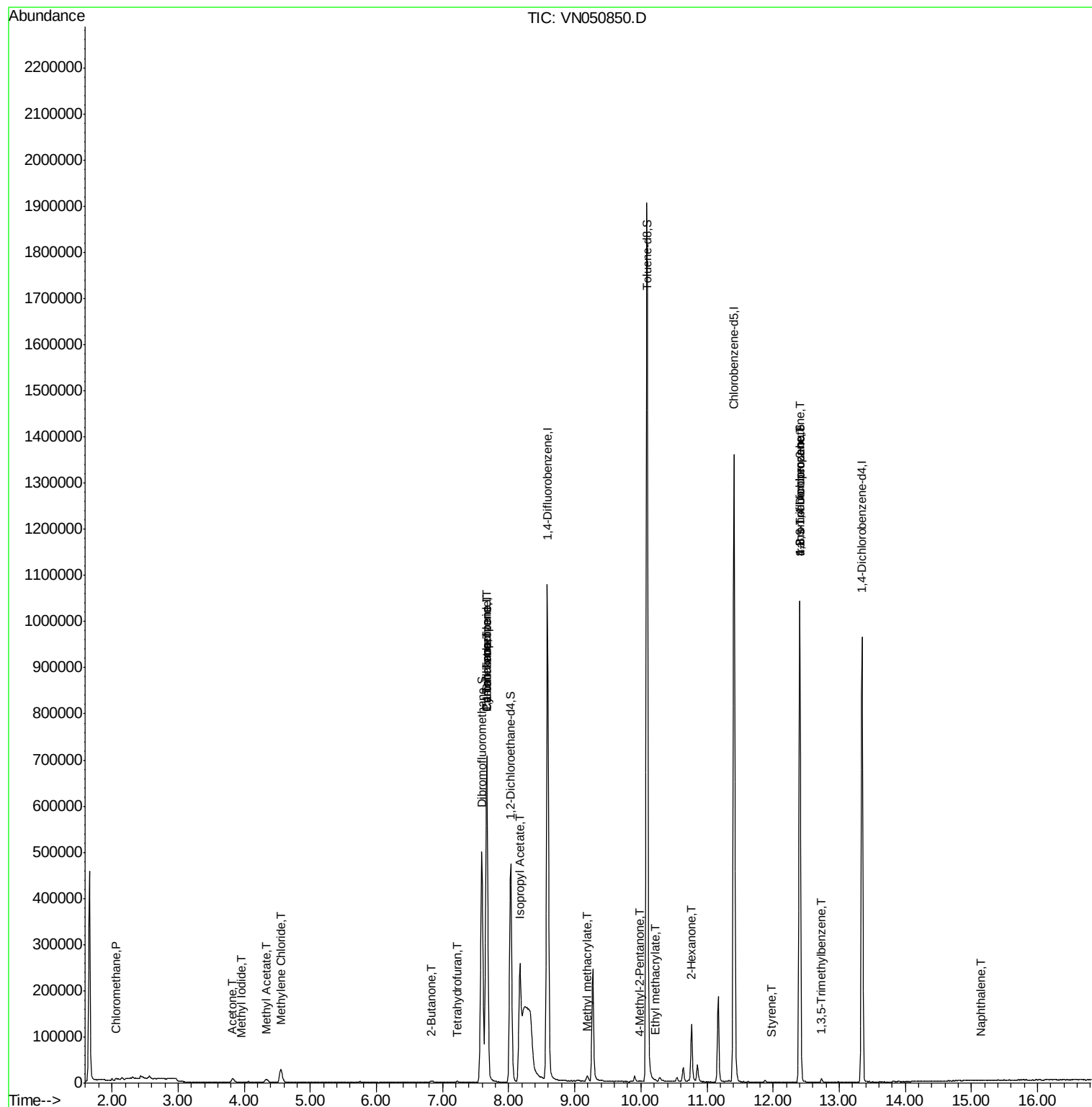
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2528	0.25	ug/l	91
5) Bromomethane	2.57	94	2613	Below Cal		100
10) Methyl Iodide	3.96	142	501	6.41	ug/l #	43
16) Acetone	3.83	43	16021	2.17	ug/l	90
18) Methyl Acetate	4.33	43	15444	2.22	ug/l	91
20) Methylene Chloride	4.56	84	22558	2.71	ug/l	95
25) 2-Butanone	6.84	43	1110	0.37	ug/l	99
29) Tetrahydrofuran	7.22	42	2103	1.23	ug/l #	73
31) Cyclohexane	7.67	56	10543	1.30	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41413	3.45	ug/l #	49
38) Carbon Tetrachloride	7.67	117	54049	4.45	ug/l #	17
43) Isopropyl Acetate	8.17	43	316334	26.65	ug/l #	91
48) Methyl methacrylate	9.18	41	6965	1.15	ug/l #	20
51) 4-Methyl-2-Pentanone	9.99	43	1743	0.25	ug/l	100
56) Ethyl methacrylate	10.23	69	2088	2.54	ug/l #	86
59) 2-Hexanone	10.77	43	16154	3.43	ug/l #	56
70) Styrene	11.97	104	153	1.28	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	12.42	83	59	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	169633	34.98	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3818	0.21	ug/l	86
81) trans-1,4-Dichloro-2-buten	12.40	75	169633	118.27	ug/l #	15
95) Naphthalene	15.13	128	155	5.41	ug/l #	69

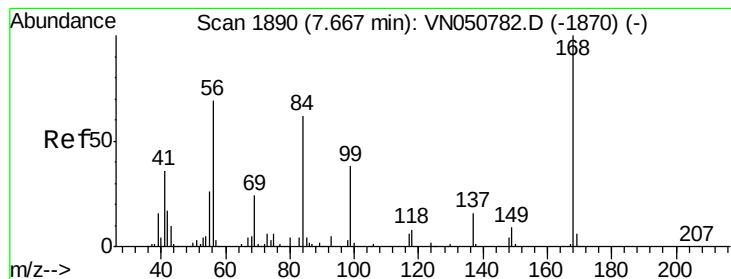
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 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: VN050850.D

Acq: 23 Aug 2018 13:57

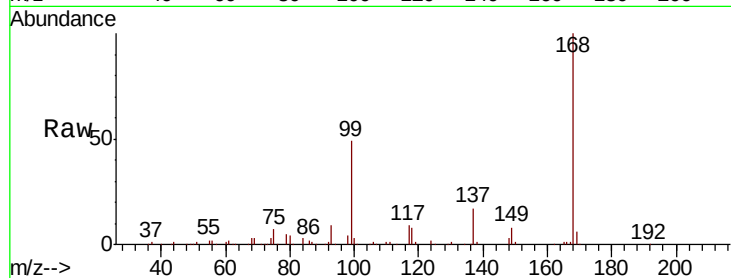
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 612670

Ion Ratio Lower Upper

168 100

99 49.1 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN050850.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN050850.D (-1797) (-)

7.67

250000

200000

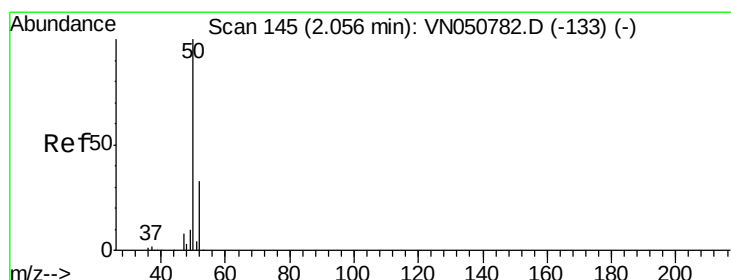
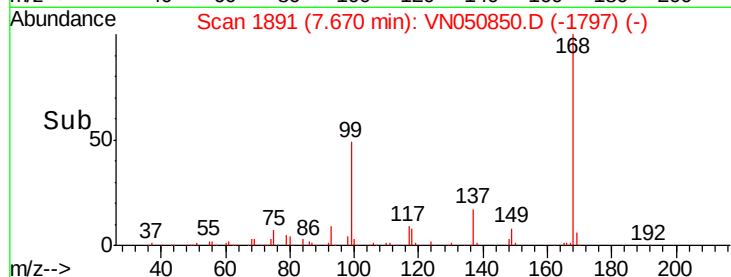
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.25 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050850.D

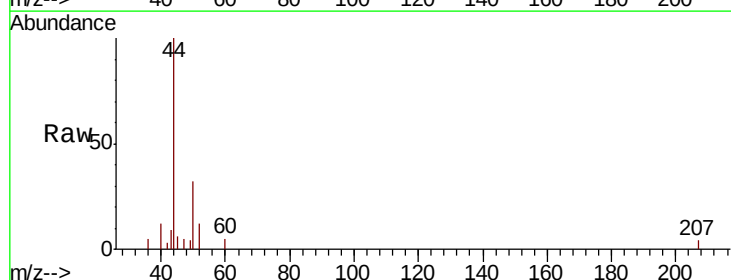
Acq: 23 Aug 2018 13:57

Tgt Ion: 50 Resp: 2528

Ion Ratio Lower Upper

50 100

52 37.8 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN050850.D (-52) (-)

Ion 51.90 (51.60 to 52.60): VN050850.D (-52) (-)

2.06

2000

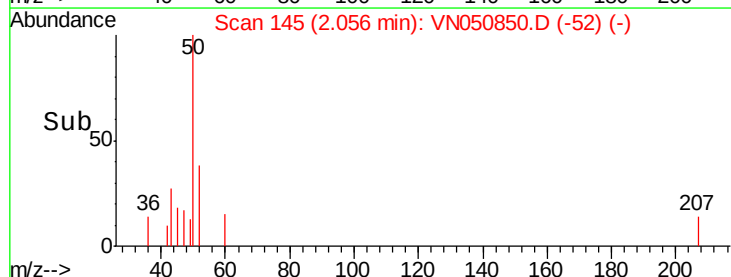
1500

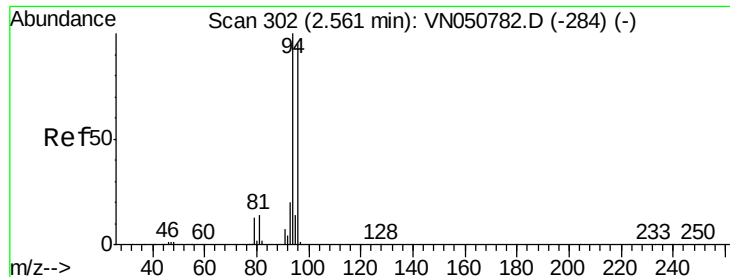
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050850.D

Acq: 23 Aug 2018 13:57

Instrument :

MSVOA_N

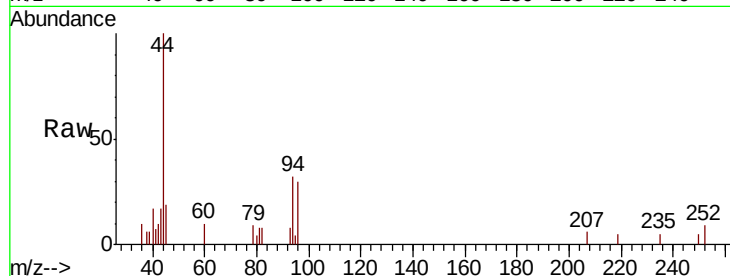
ClientSampleId :

Tot Ion: 94 Resp: 2613

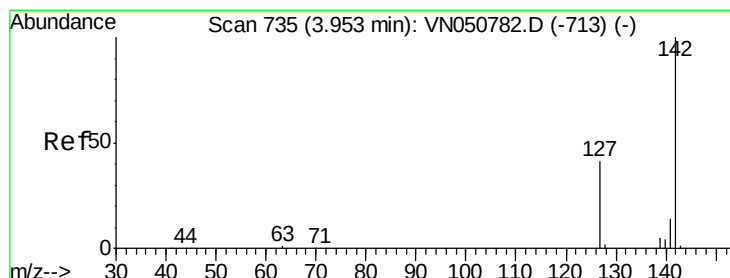
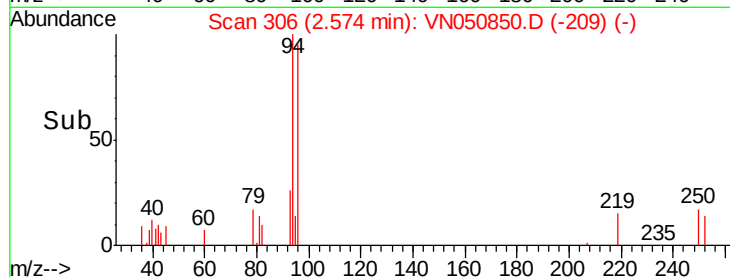
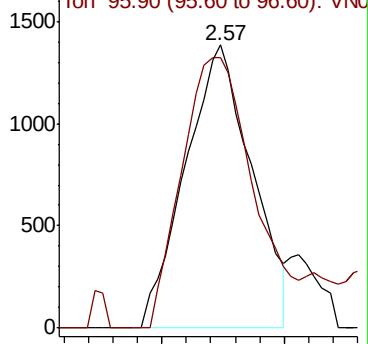
Ion Ratio Lower Upper

94 100

96 95.4 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050782.D (-284) (-)



#10

Methyl Iodide

Concen: 6.41 ug/l

RT: 3.96 min Scan# 738

Delta R.T. 0.01 min

Lab File: VN050850.D

Acq: 23 Aug 2018 13:57

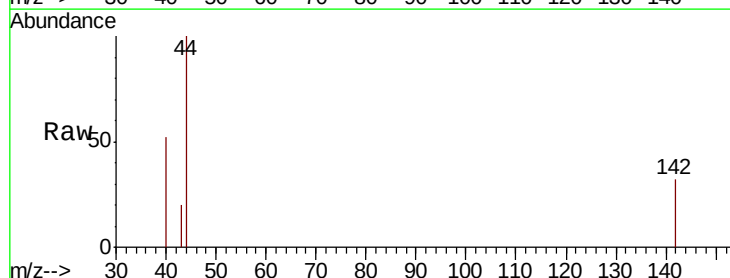
Tgt Ion: 142 Resp: 501

Ion Ratio Lower Upper

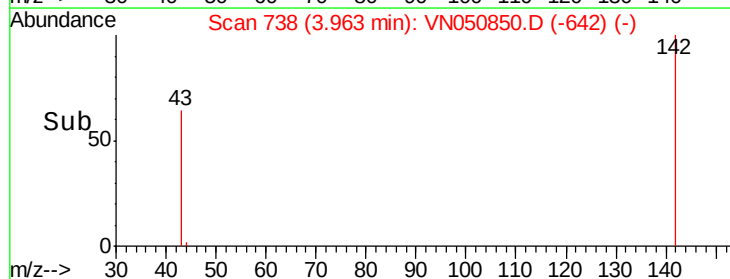
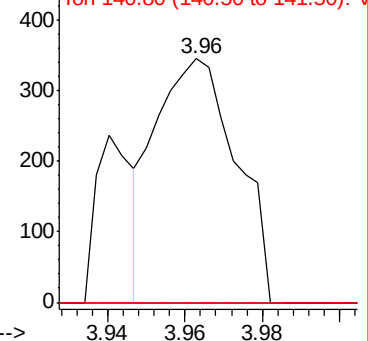
142 100

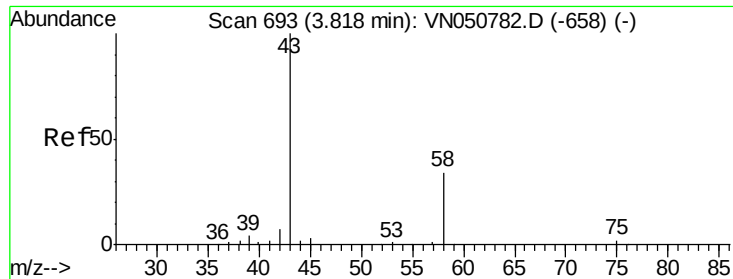
127 0.0 31.7 47.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050782.D (-713) (-)





#16

Acetone

Concen: 2.17 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050850.D

Acq: 23 Aug 2018 13:57

Instrument :

MSVOA_N

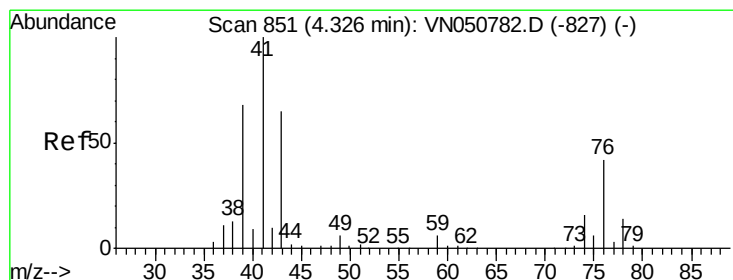
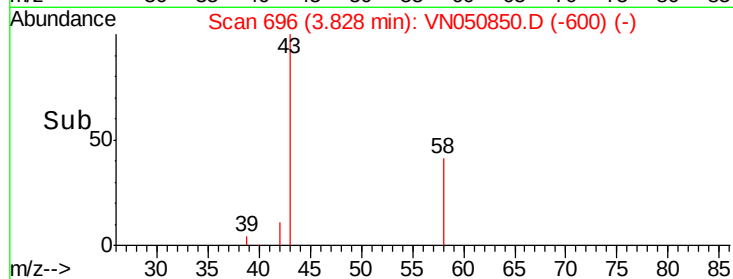
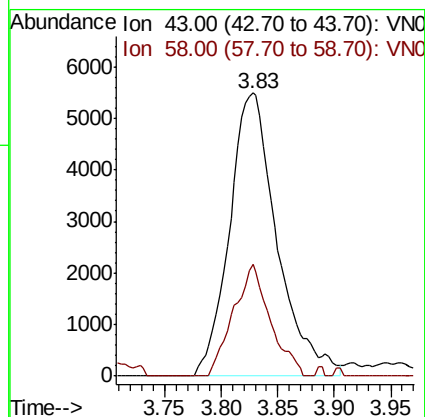
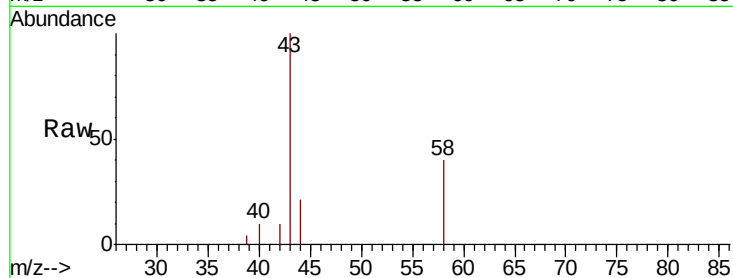
ClientSampled :

Tot Ion: 43 Resp: 16021

Ion Ratio Lower Upper

43 100

58 39.6 27.2 40.8



#18

Methyl Acetate

Concen: 2.22 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN050850.D

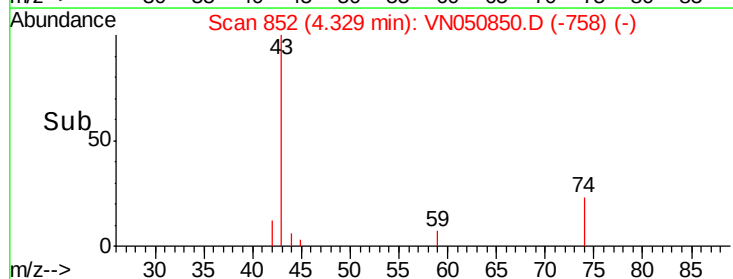
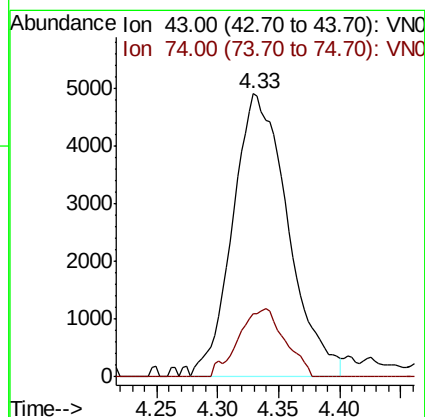
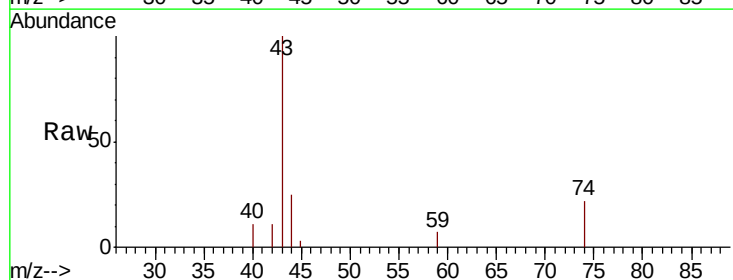
Acq: 23 Aug 2018 13:57

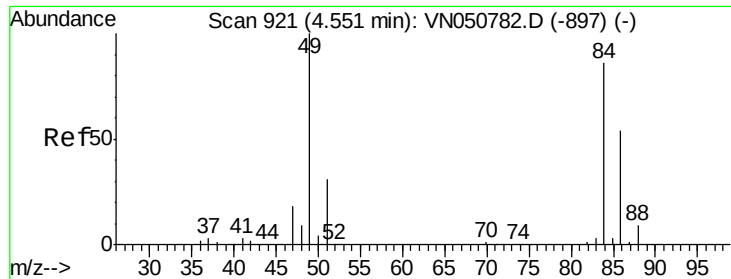
Tgt Ion: 43 Resp: 15444

Ion Ratio Lower Upper

43 100

74 20.2 19.8 29.8

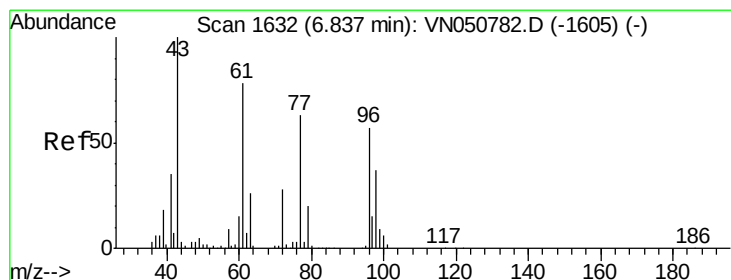
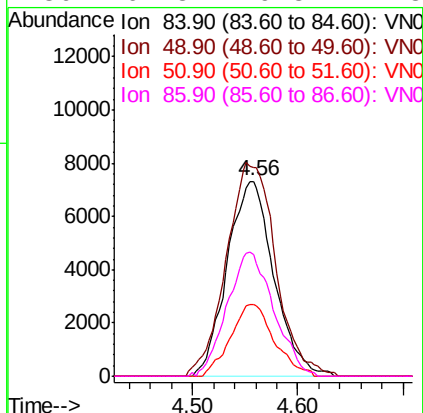
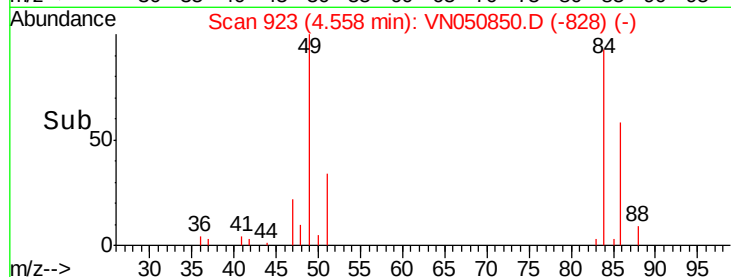
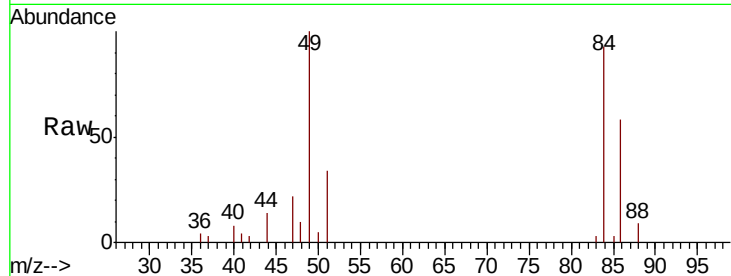




#20
Methvlene Chloride
Concen: 2.71 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050850.D
Acq: 23 Aug 2018 13:57

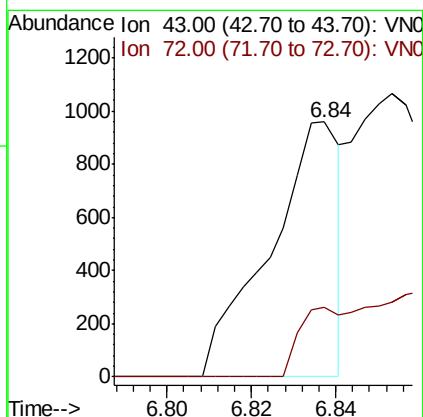
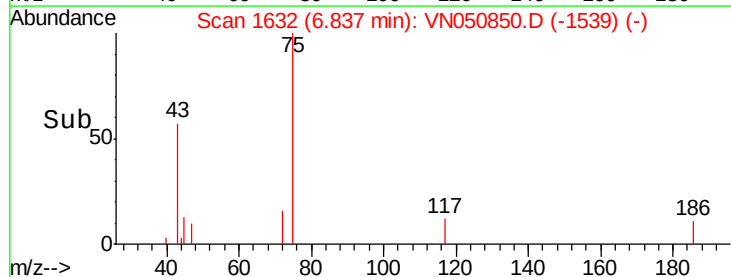
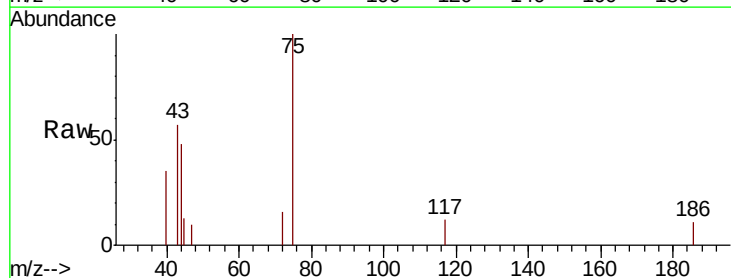
Instrument :
MSVOA_N
ClientSampled :

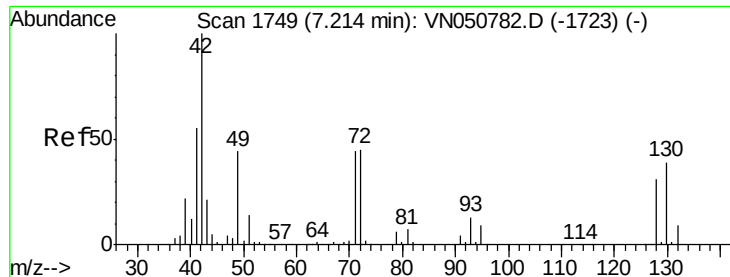
Tot Ion: 84 Resp: 22558
Ion Ratio Lower Upper
84 100
49 107.1 93.2 139.8
51 36.7 29.0 43.6
86 62.3 49.8 74.8



#25
2-Butanone
Concen: 0.37 ug/l
RT: 6.84 min Scan# 1632
Delta R.T. -0.00 min
Lab File: VN050850.D
Acq: 23 Aug 2018 13:57

Tgt Ion: 43 Resp: 1110
Ion Ratio Lower Upper
43 100
72 27.5 22.3 33.5





#29

Tetrahydrofuran

Concen: 1.23 ug/l

RT: 7.22 min Scan# 1752

Delta R.T. 0.01 min

Lab File: VN050850.D

Acq: 23 Aug 2018 13:57

Instrument :

MSVOA_N

ClientSampled :

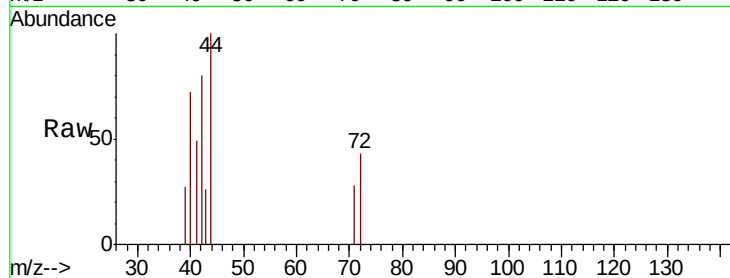
Tot Ion: 42 Resp: 2103

Ion Ratio Lower Upper

42 100

72 39.6 35.5 53.3

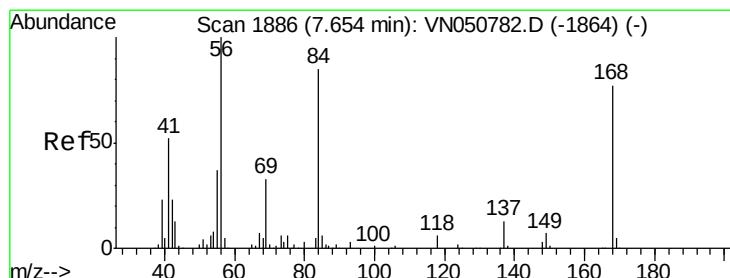
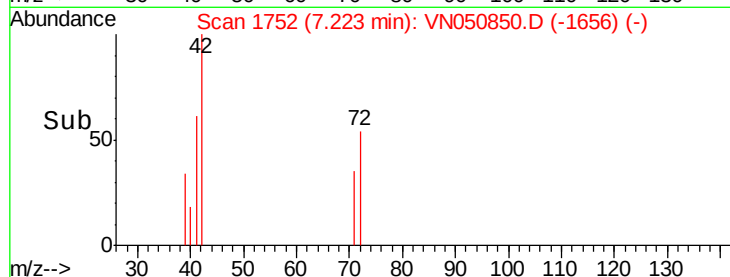
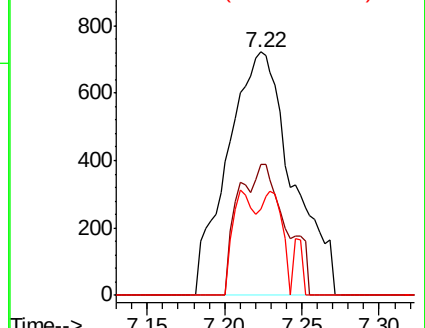
71 12.1 33.7 50.5#



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



#31

Cyclohexane

Concen: 1.30 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050850.D

Acq: 23 Aug 2018 13:57

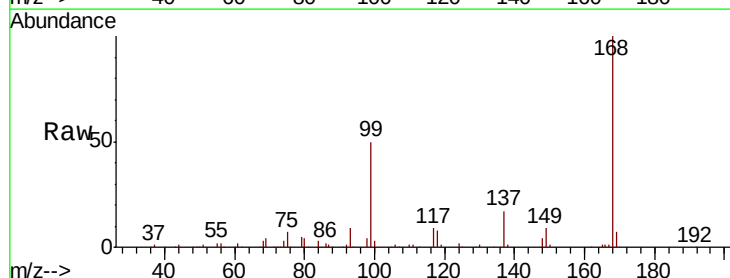
Tgt Ion: 56 Resp: 10543

Ion Ratio Lower Upper

56 100

69 206.3 26.2 39.4#

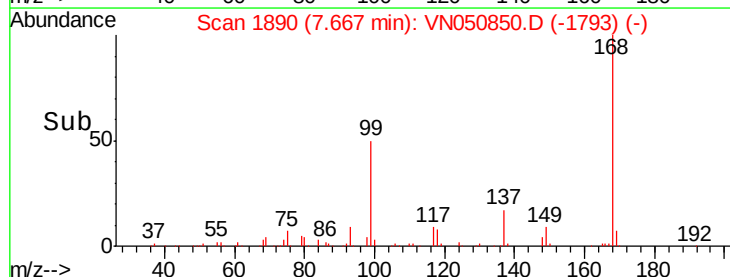
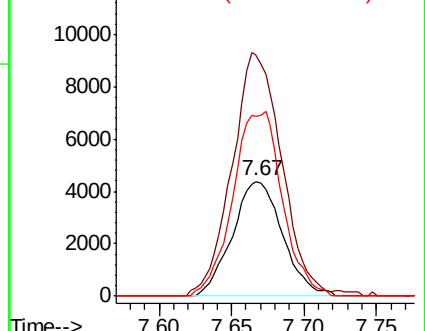
84 156.9 68.3 102.5#

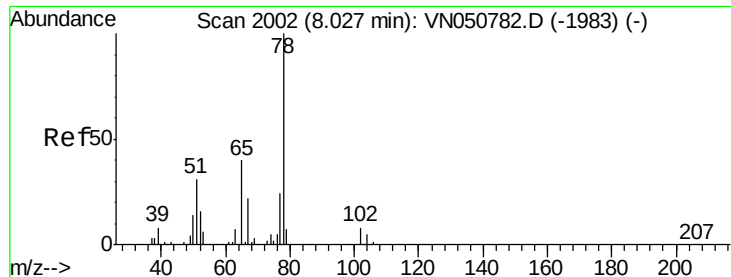


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

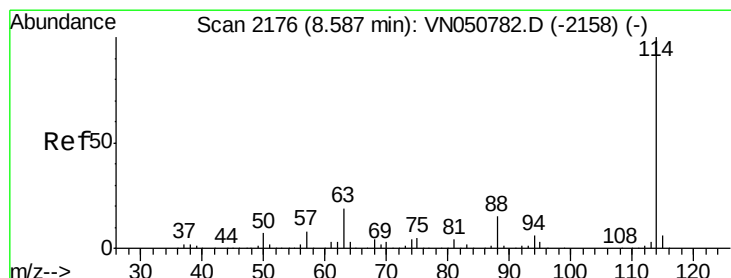
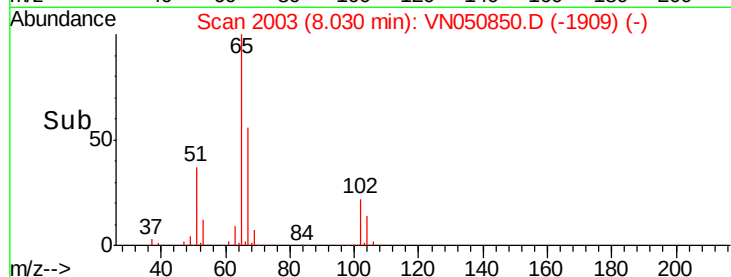
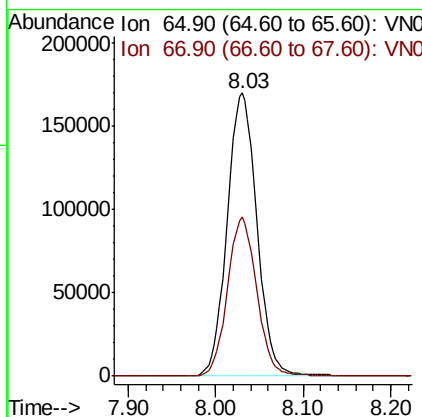
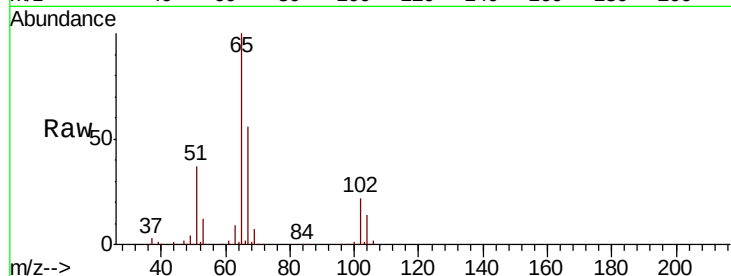




#33
 1,2-Dichloroethane-d4
 Concen: 54.54 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050850.D
 Acq: 23 Aug 2018 13:57

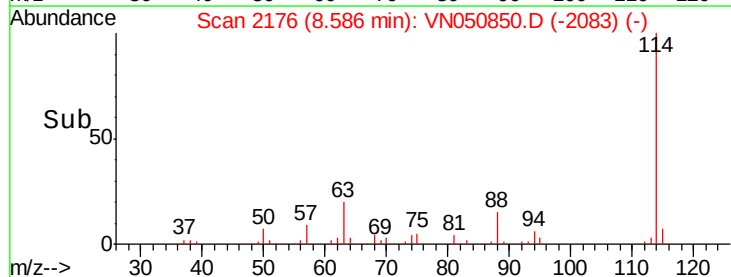
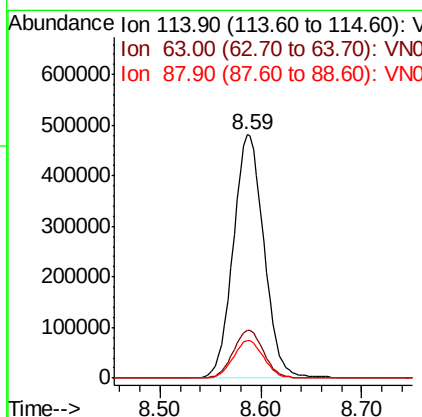
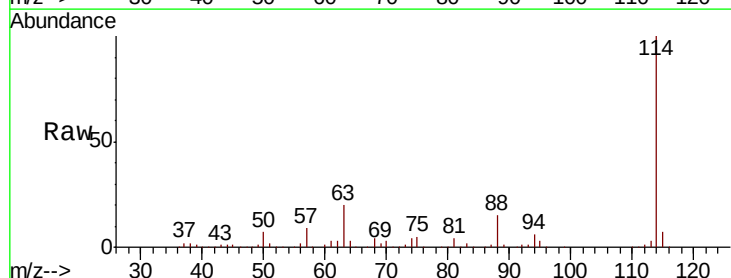
Instrument :
 MSVOA_N
 ClientSampleId :

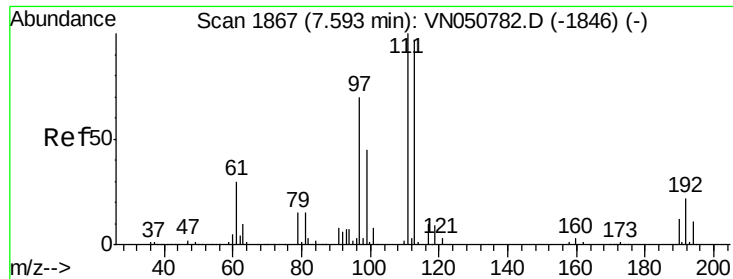
Tot Ion: 65 Resp: 402254
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050850.D
 Acq: 23 Aug 2018 13:57

Tgt Ion: 114 Resp: 1018300
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 38.6
 88 15.5 0.0 30.6

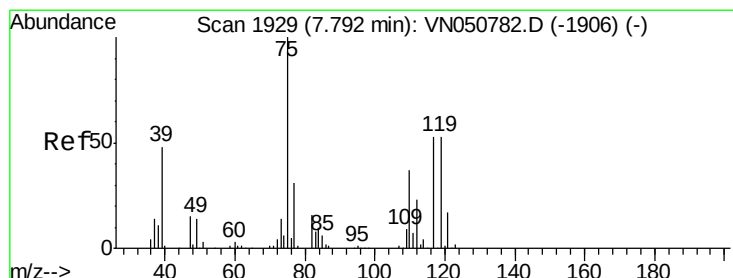
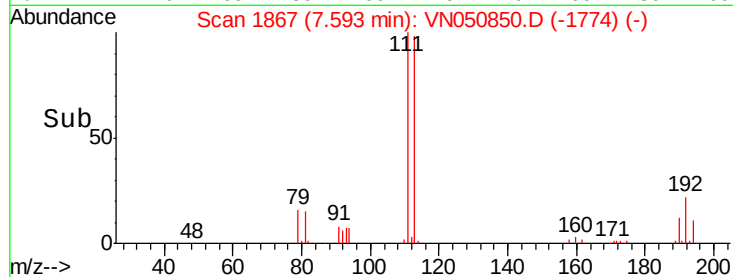
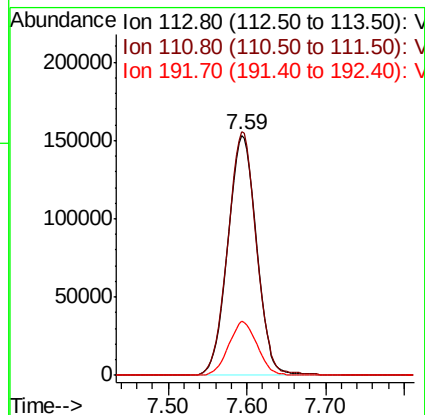
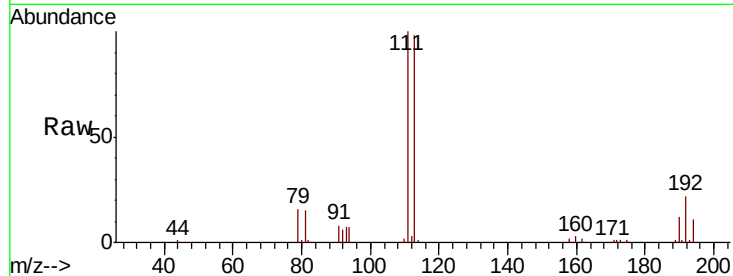




#35
 Dibromofluoromethane
 Concen: 47.73 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050850.D
 Acq: 23 Aug 2018 13:57

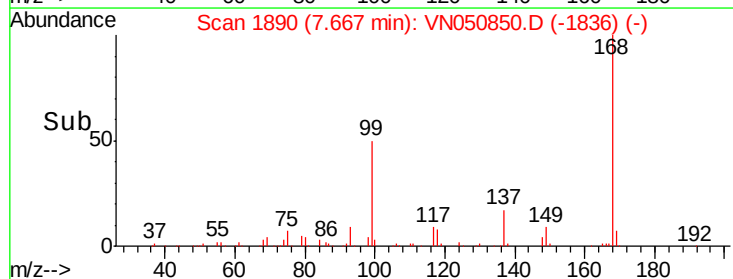
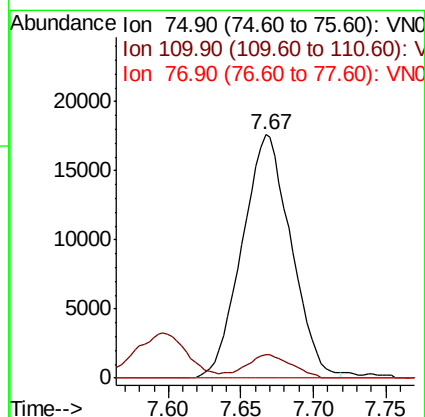
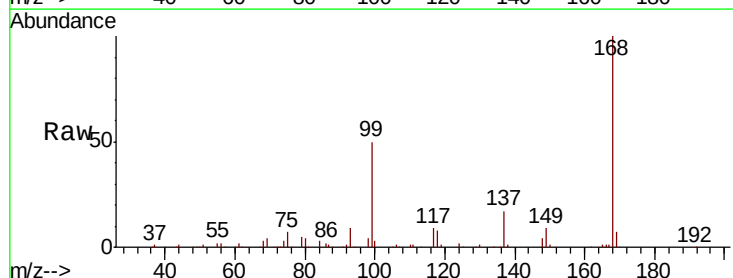
Instrument :
 MSVOA_N
 ClientSampleId :

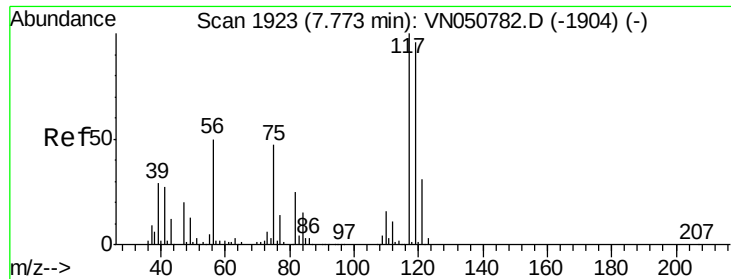
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.0	82.6	123.8
192	22.2	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.45 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050850.D
 Acq: 23 Aug 2018 13:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.1	54.4#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 4.45 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050850.D

Acq: 23 Aug 2018 13:57

Instrument :

MSVOA_N

ClientSampleId :

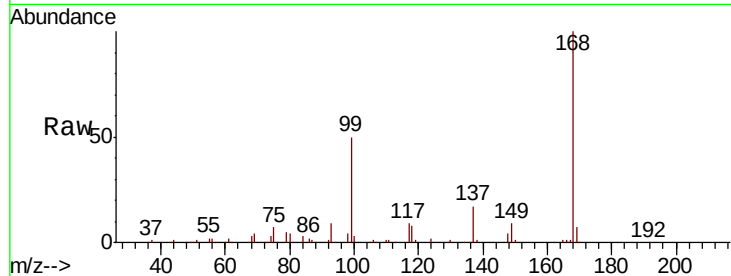
Tot Ion:117 Resp: 54049

Ion Ratio Lower Upper

117 100

119 6.3 76.3 114.5#

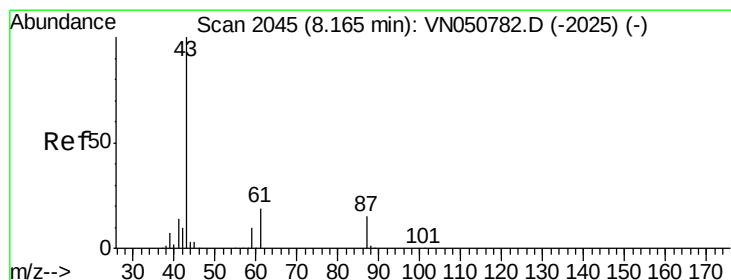
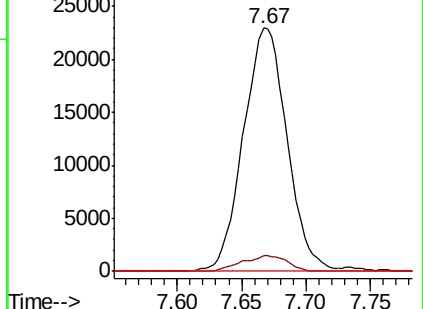
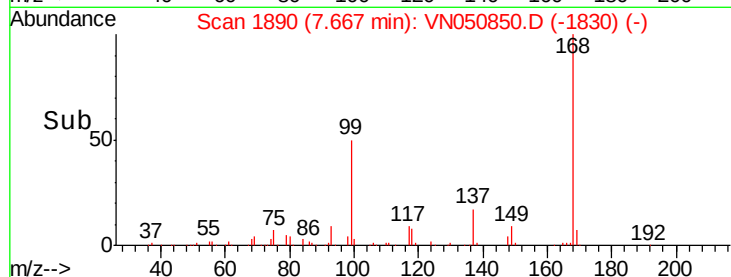
121 0.0 24.6 36.8#



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: 26.65 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050850.D

Acq: 23 Aug 2018 13:57

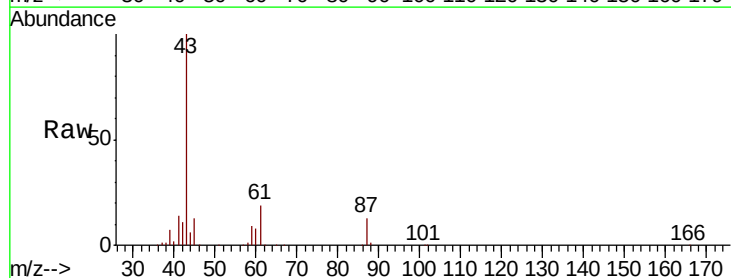
Tgt Ion: 43 Resp: 316334

Ion Ratio Lower Upper

43 100

61 17.4 17.5 26.3#

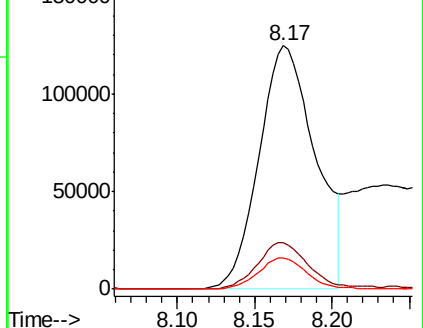
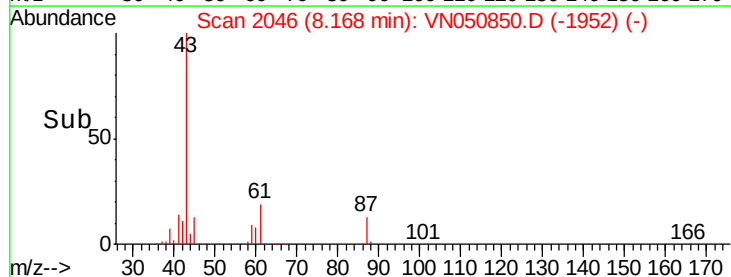
87 11.1 11.3 16.9#

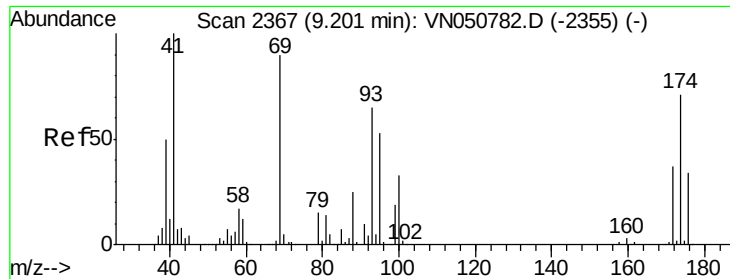


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

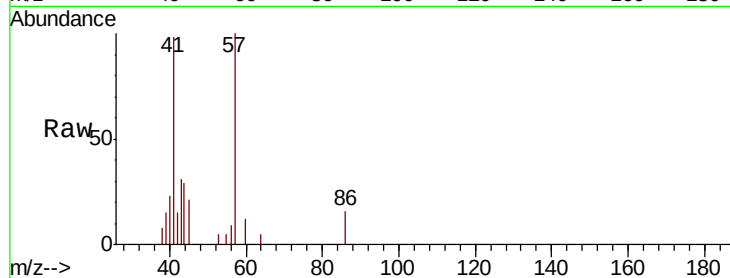




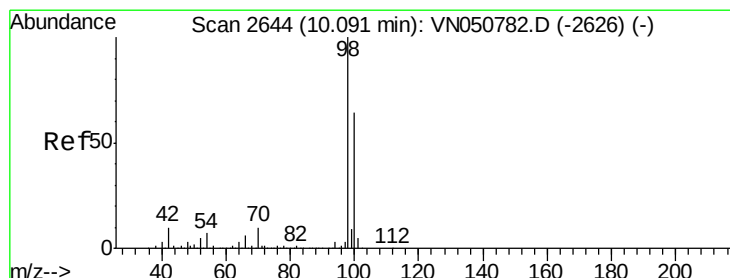
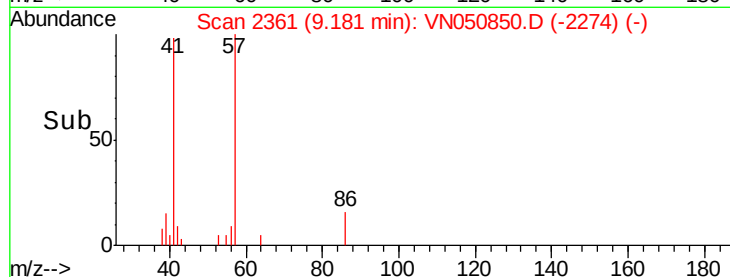
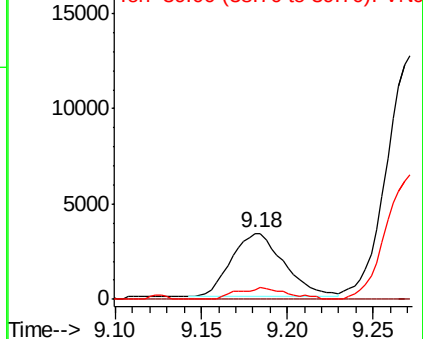
#48
Methvl methacrylate
Concen: 1.15 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050850.D
Acq: 23 Aug 2018 13:57

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 6965
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 17.6 42.2 63.2#

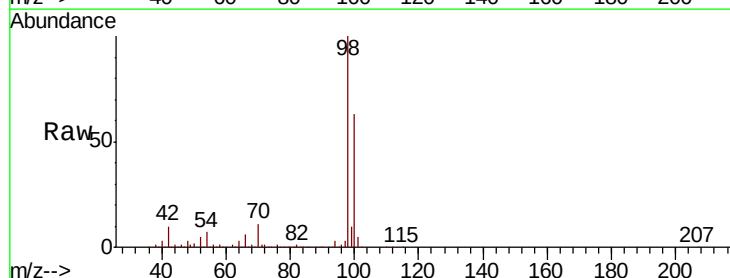


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

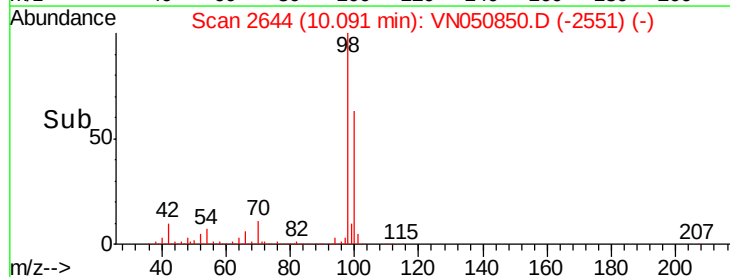
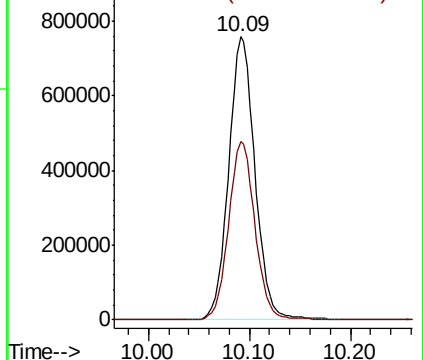


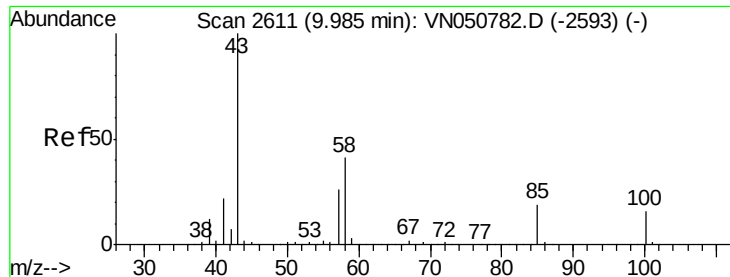
#50
Toluene-d8
Concen: 45.64 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050850.D
Acq: 23 Aug 2018 13:57

Tgt Ion: 98 Resp: 1382266
Ion Ratio Lower Upper
98 100
100 63.5 51.5 77.3



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: 0.25 ug/l

RT: 9.99 min Scan# 2614

Delta R.T. 0.01 min

Lab File: VN050850.D

Acq: 23 Aug 2018 13:57

Instrument :

MSVOA_N

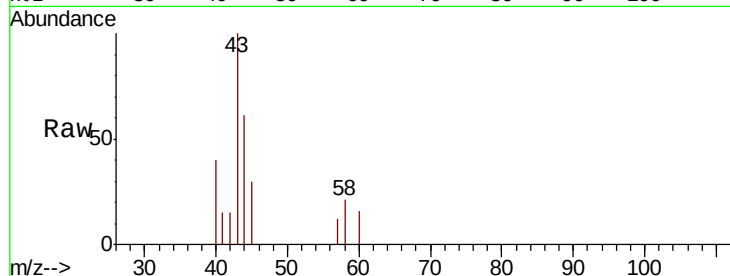
ClientSampled :

Tot Ion: 43 Resp: 1743

Ion Ratio Lower Upper

43 100

58 40.3 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN050782.D (-2593) (-)

Ion 58.00 (57.70 to 58.70): VN050782.D (-2593) (-)

1500

1000

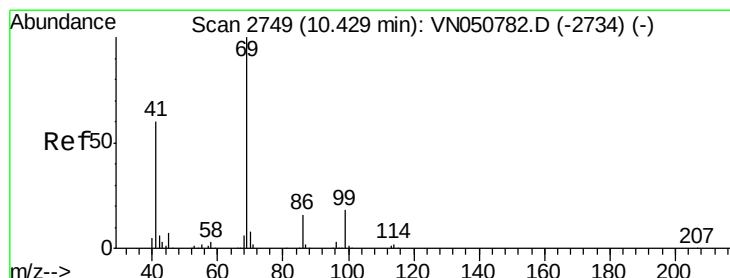
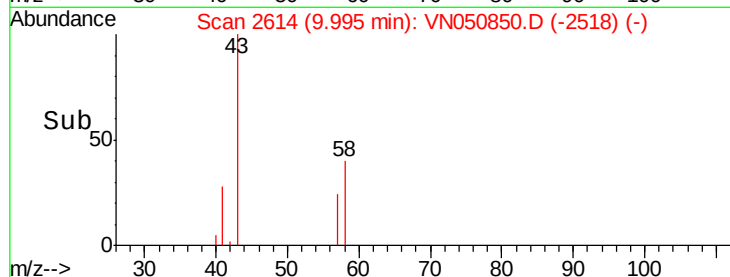
500

0

9.95

10.00

Time-->



#56

Ethyl methacrylate

Concen: 2.54 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.20 min

Lab File: VN050850.D

Acq: 23 Aug 2018 13:57

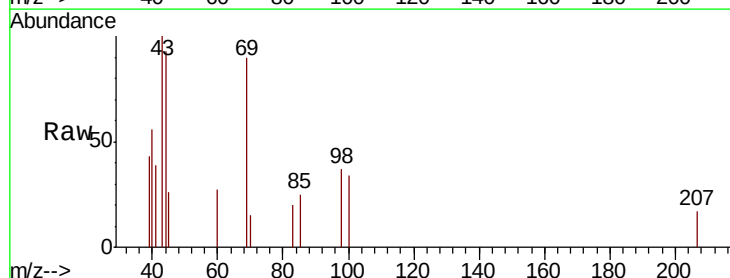
Tgt Ion: 69 Resp: 2088

Ion Ratio Lower Upper

69 100

41 68.0 48.3 72.5

39 41.4 24.0 36.0#



Abundance Ion 69.00 (68.70 to 69.70): VN050782.D (-2734) (-)

Ion 41.00 (40.70 to 41.70): VN050782.D (-2734) (-)

Ion 39.00 (38.70 to 39.70): VN050782.D (-2734) (-)

1000

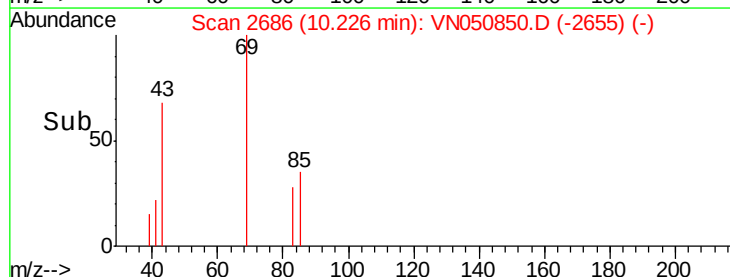
500

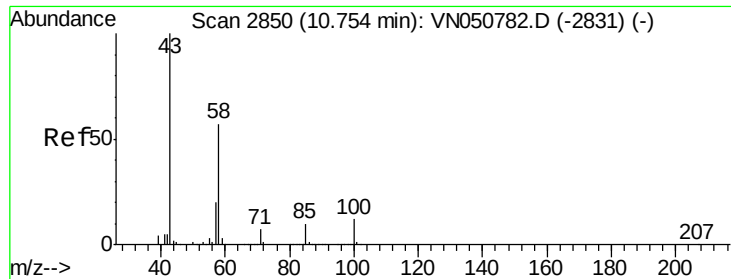
0

10.20

10.25

Time-->

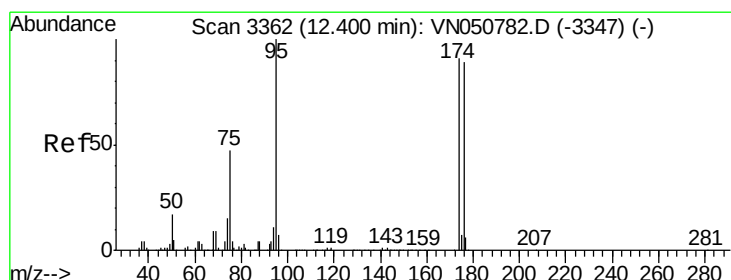
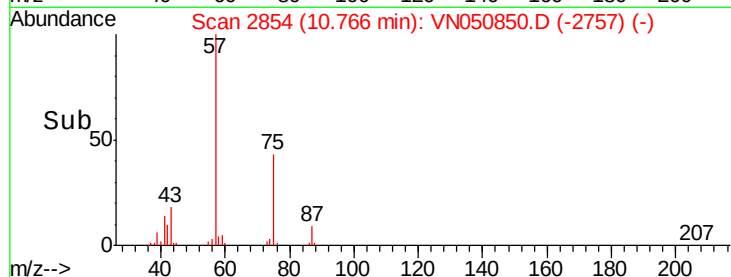
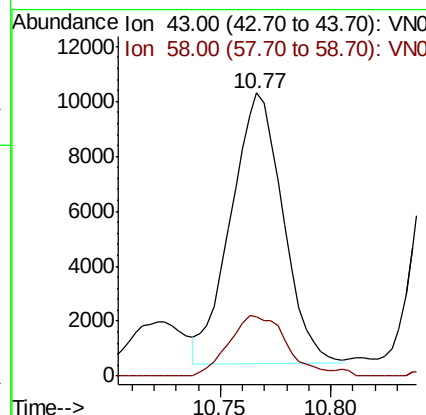
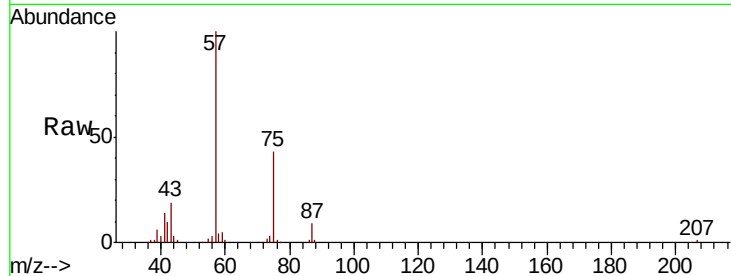




#59
2-Hexanone
Concen: 3.43 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050850.D
Acq: 23 Aug 2018 13:57

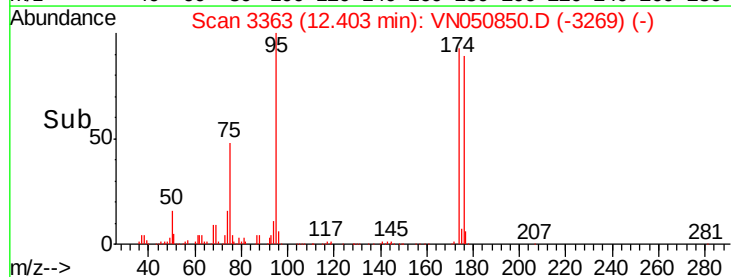
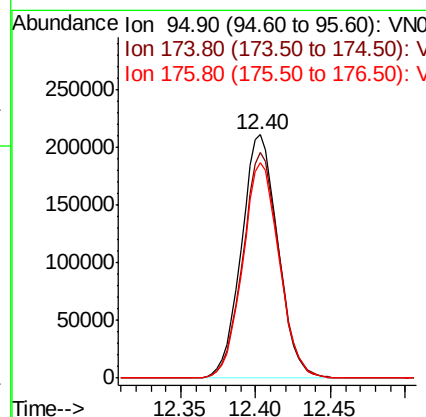
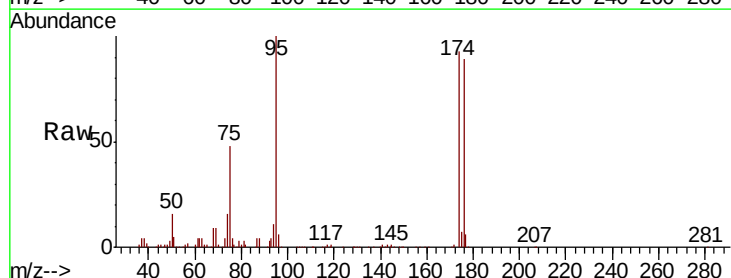
Instrument :
MSVOA_N
ClientSampled :

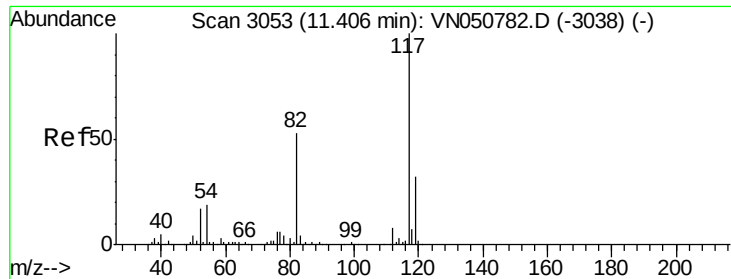
Tot Ion: 43 Resp: 16154
Ion Ratio Lower Upper
43 100
58 24.7 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 35.54 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050850.D
Acq: 23 Aug 2018 13:57

Tgt Ion: 95 Resp: 357742
Ion Ratio Lower Upper
95 100
174 92.5 0.0 183.0
176 88.6 0.0 178.8

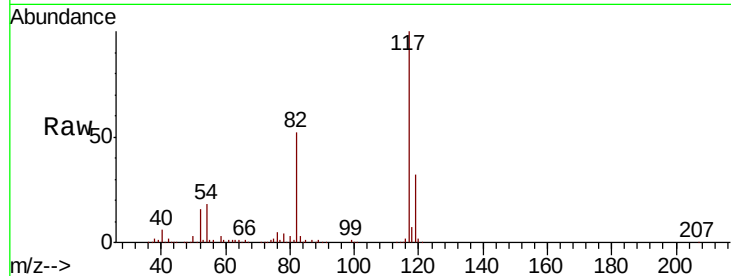




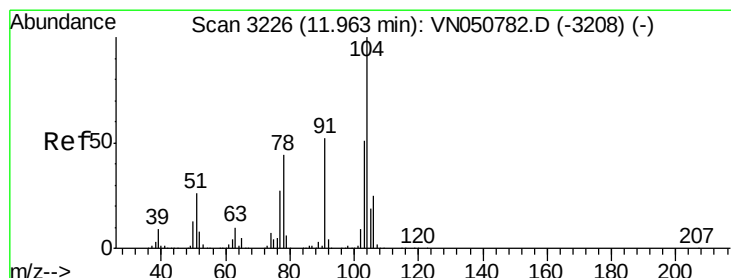
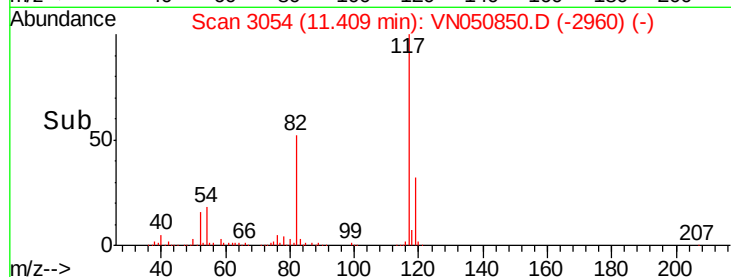
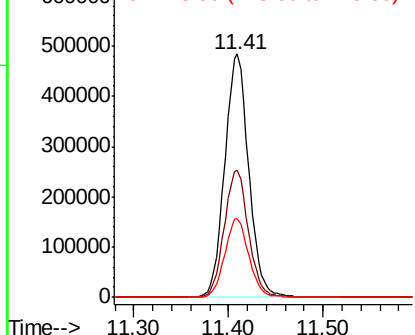
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050850.D
Acq: 23 Aug 2018 13:57

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 851632
Ion Ratio Lower Upper
117 100
82 52.1 42.6 64.0
119 32.4 25.8 38.6

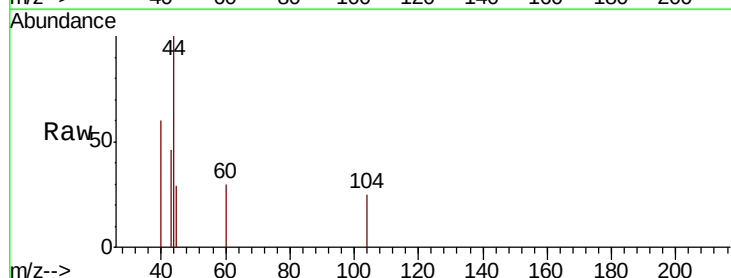


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

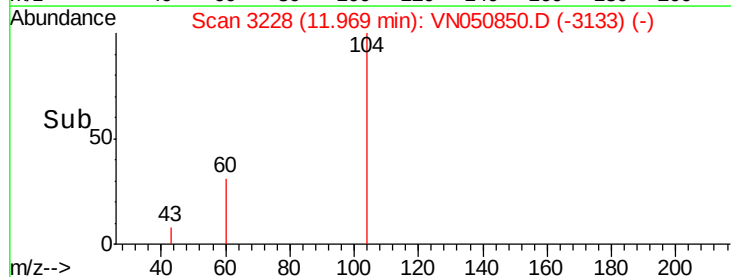
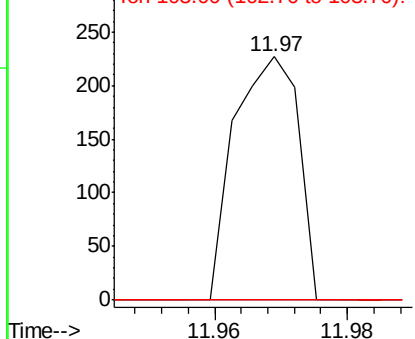


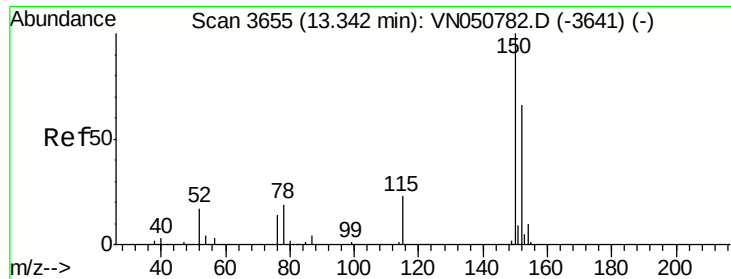
#70
Styrene
Concen: 1.28 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.01 min
Lab File: VN050850.D
Acq: 23 Aug 2018 13:57

Tgt Ion:104 Resp: 153
Ion Ratio Lower Upper
104 100
78 0.0 38.2 57.4#
103 0.0 44.4 66.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050850.D

Acq: 23 Aug 2018 13:57

Instrument :

MSVOA_N

ClientSampleId :

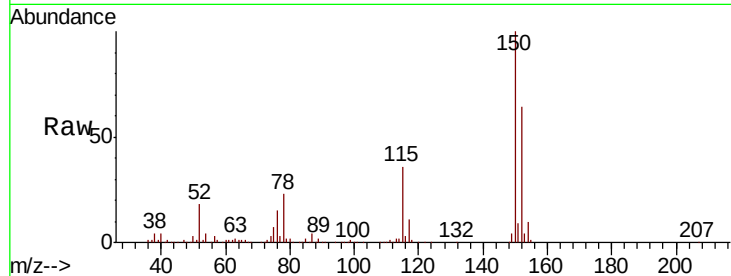
Tot Ion:152 Resp: 276840

Ion Ratio Lower Upper

152 100

115 57.0 27.8 83.4

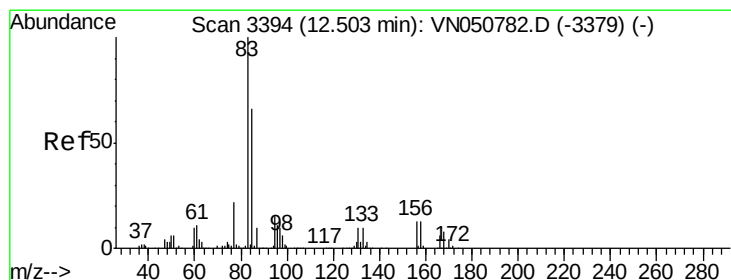
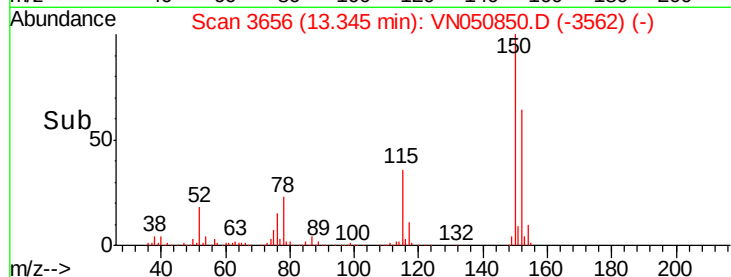
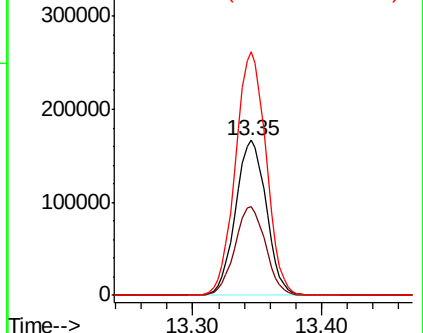
150 156.7 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.42 min Scan# 3369

Delta R.T. -0.08 min

Lab File: VN050850.D

Acq: 23 Aug 2018 13:57

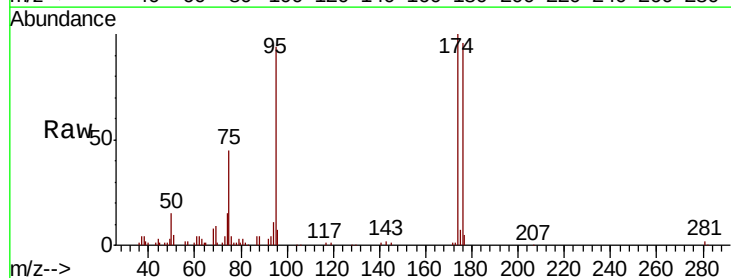
Tgt Ion: 83 Resp: 59

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

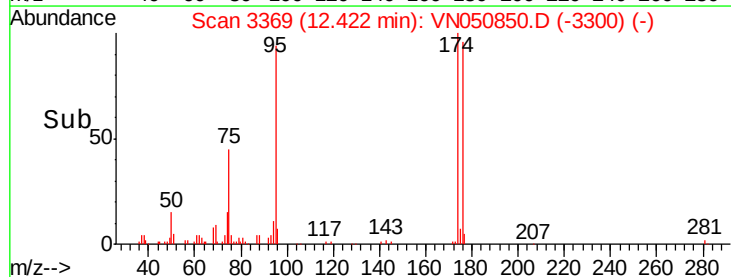
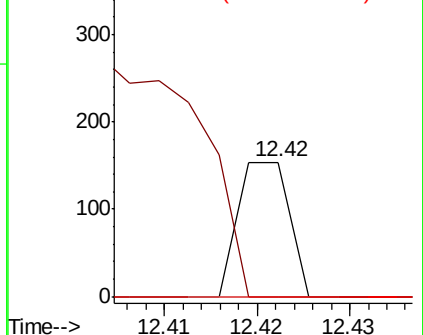
85 0.0 31.9 95.7#

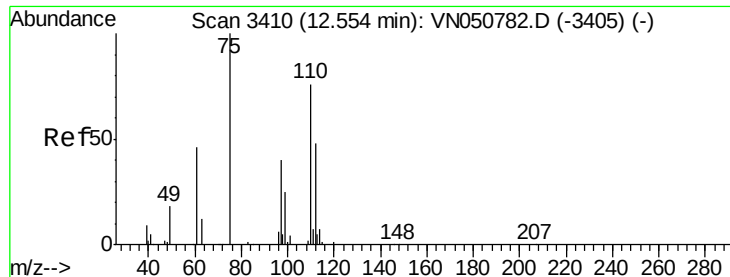


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 34.98 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050850.D

Acq: 23 Aug 2018 13:57

Instrument :

MSVOA_N

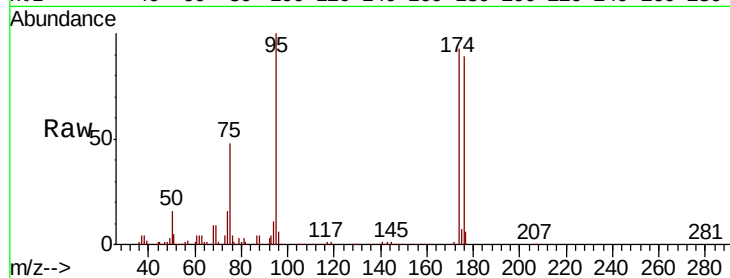
ClientSampleId :

Tot Ion: 75 Resp: 169633

Ion Ratio Lower Upper

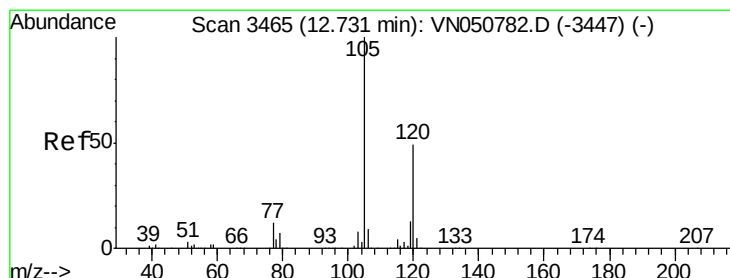
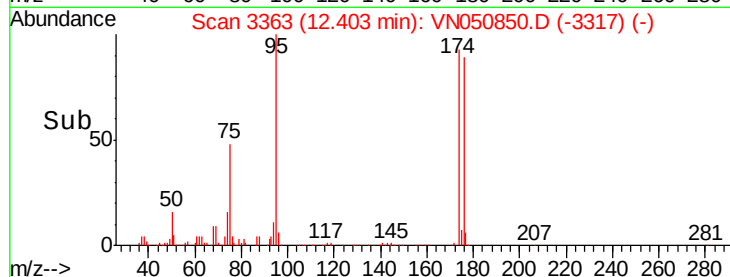
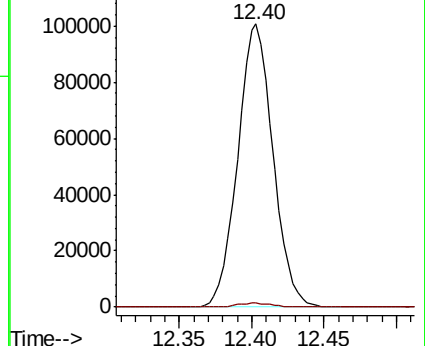
75 100

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



#80

1,3,5-Trimethylbenzene

Concen: 0.21 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050850.D

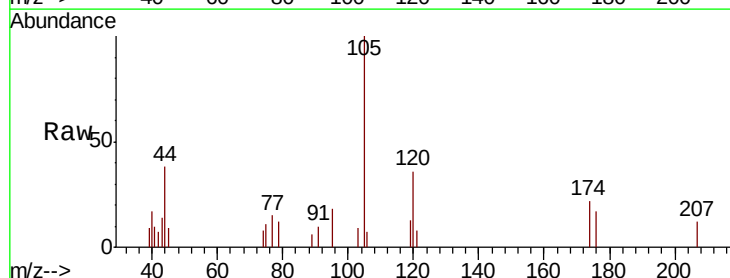
Acq: 23 Aug 2018 13:57

Tgt Ion:105 Resp: 3818

Ion Ratio Lower Upper

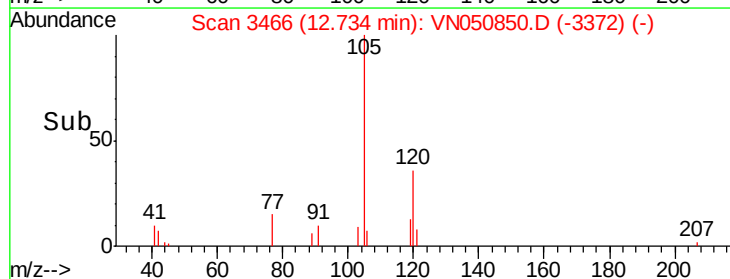
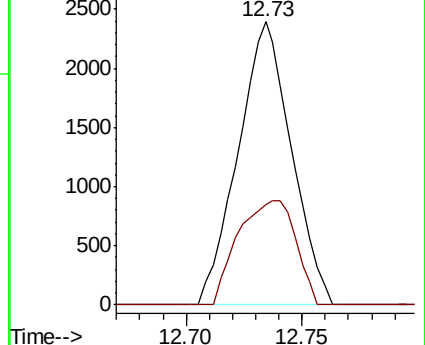
105 100

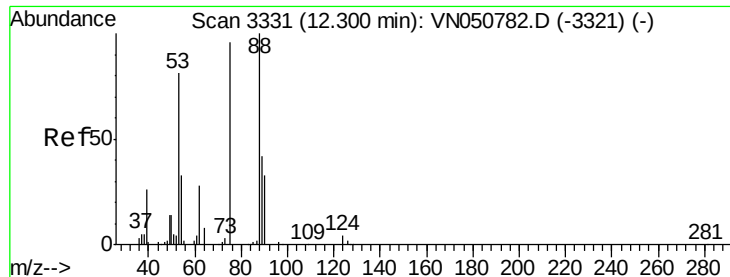
120 39.8 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 118.27 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050850.D

Acq: 23 Aug 2018 13:57

Instrument :

MSVOA_N

ClientSampleId :

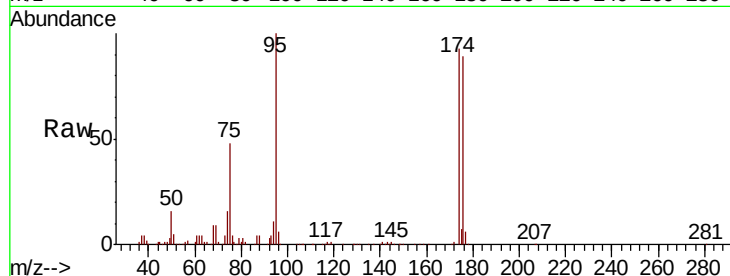
Tot Ion: 75 Resp: 169633

Ion Ratio Lower Upper

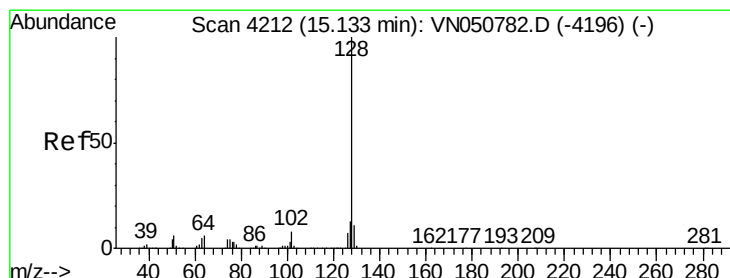
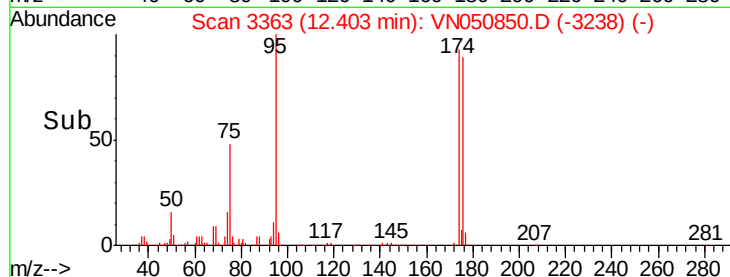
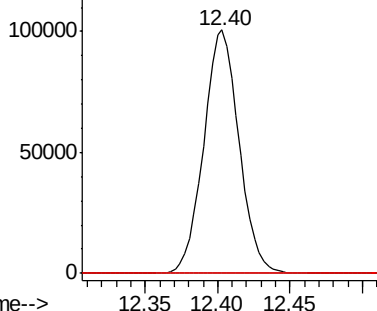
75 100

53 0.1 68.9 103.3#

89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN050850.D
Ion 53.00 (52.70 to 53.70): VN050850.D
Ion 88.90 (88.60 to 89.60): VN050850.D



#95

Naphthalene

Concen: 5.41 ug/l

RT: 15.13 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN050850.D

Acq: 23 Aug 2018 13:57

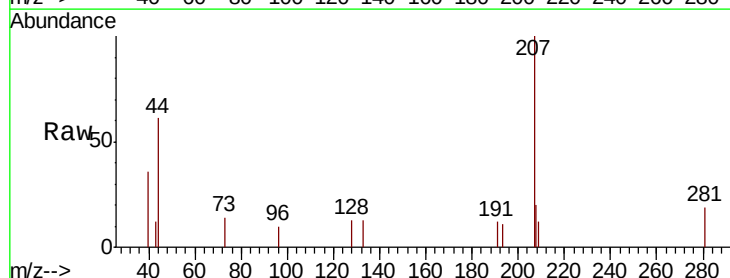
Tgt Ion: 128 Resp: 155

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN050850.D
Ion 127.00 (126.70 to 127.70): VN050850.D
Ion 129.00 (128.70 to 129.70): VN050850.D

