

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\
 Data File : VN050962.D
 Acq On : 30 Aug 2018 15:01
 Operator : MD\SY
 Sample : PB112481ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112481ZHE#06

Quant Time: Aug 31 01:36:34 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	568975	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	955803	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	800710	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	271407	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	381365	55.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.36%	
35) Dibromofluoromethane	7.59	113	362247	47.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.28%	
50) Toluene-d8	10.09	98	1275078	44.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.70%	
62) 4-Bromofluorobenzene	12.40	95	344898	36.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.02%	

Target Compounds

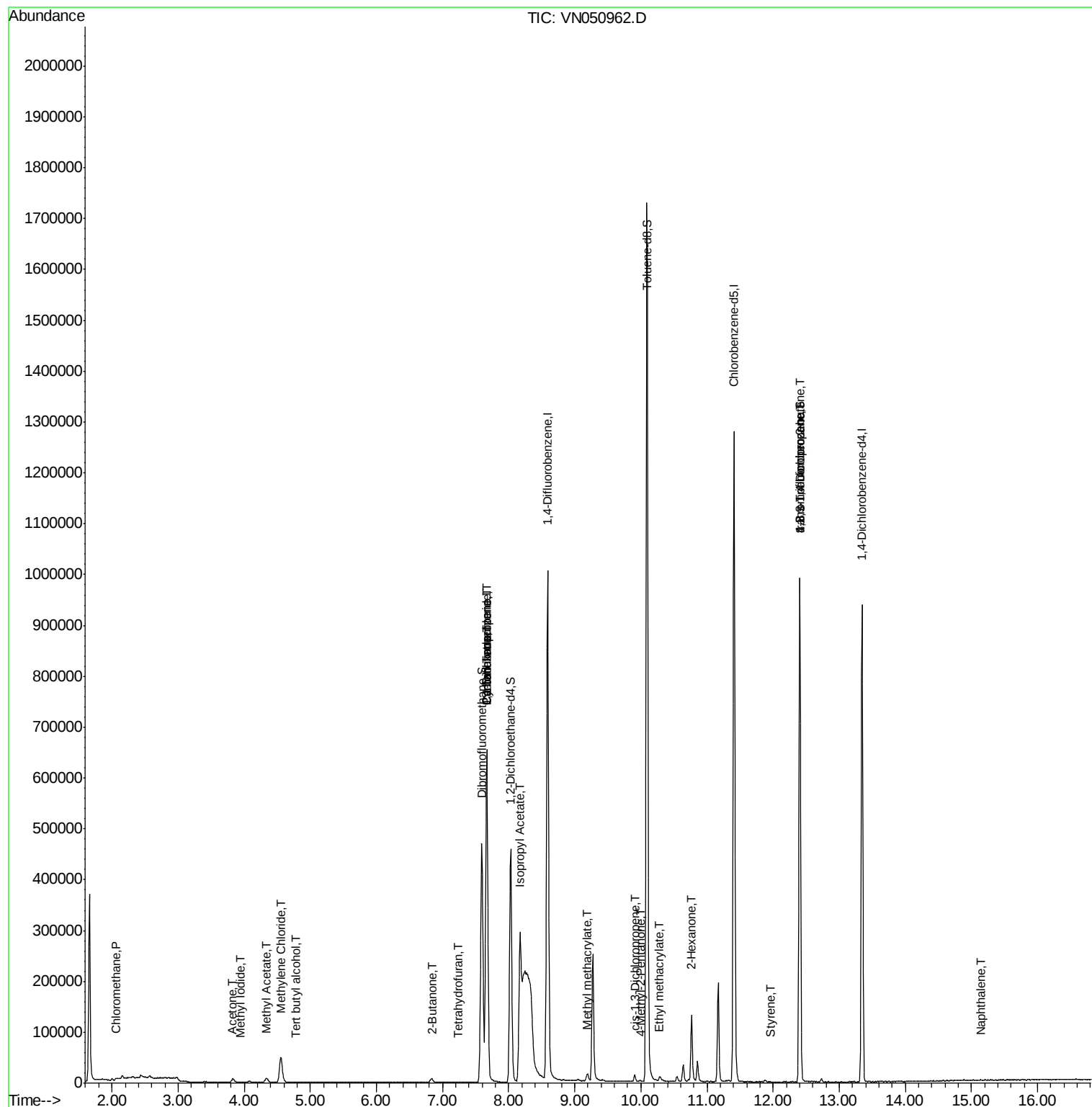
						Qvalue
3) Chloromethane	2.06	50	1879	0.20	ug/l	95
5) Bromomethane	2.57	94	2299	Below	Cal	88
10) Methyl Iodide	3.96	142	366	6.39	ug/l #	43
11) Tert butyl alcohol	4.78	59	104	0.24	ug/l #	72
16) Acetone	3.82	43	14447	1.90	ug/l	98
18) Methyl Acetate	4.34	43	17328	2.68	ug/l	99
20) Methylene Chloride	4.56	84	40574	5.26	ug/l	93
25) 2-Butanone	6.85	43	2145	0.78	ug/l #	88
29) Tetrahydrofuran	7.23	42	1084	0.68	ug/l #	43
31) Cyclohexane	7.67	56	9655	1.29	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	38666	3.43	ug/l #	48
38) Carbon Tetrachloride	7.67	117	49677	4.36	ug/l #	16
43) Isopropyl Acetate	8.17	43	370378	33.25	ug/l #	89
48) Methyl methacrylate	9.18	41	8646	1.52	ug/l #	19
51) 4-Methyl-2-Pentanone	9.99	43	1741	0.26	ug/l	88
54) cis-1,3-Dichloropropene	9.91	75	2653	0.21	ug/l #	65
56) Ethyl methacrylate	10.27	69	159	2.37	ug/l #	1
59) 2-Hexanone	10.77	43	18490	4.18	ug/l #	58
70) Styrene	11.97	104	66	1.27	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	12.40	83	137	Below	Cal #	1
76) 1,2,3-Trichloropropane	12.40	75	158746	33.39	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	158746	112.89	ug/l #	15
95) Naphthalene	15.14	128	212	5.42	ug/l #	69

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN050962.D

Acq: 30 Aug 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

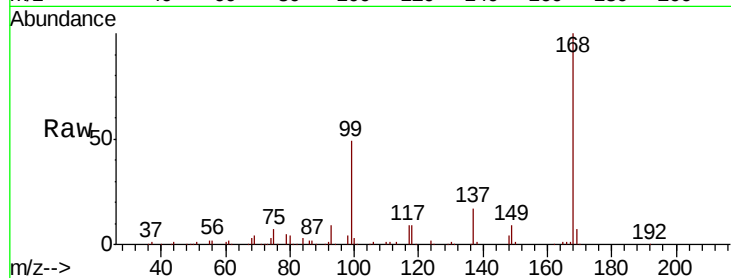
PB112481ZHE#06

Tot Ion:168 Resp: 568975

Ion Ratio Lower Upper

168 100

99 49.5 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

100000

50000

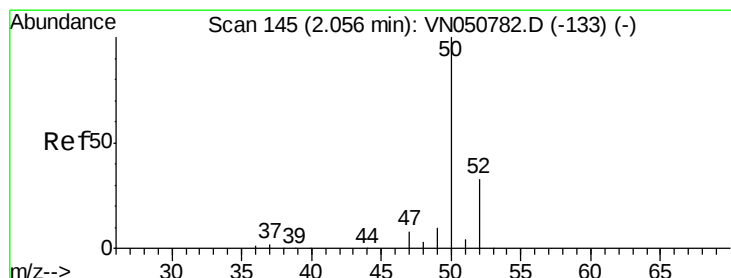
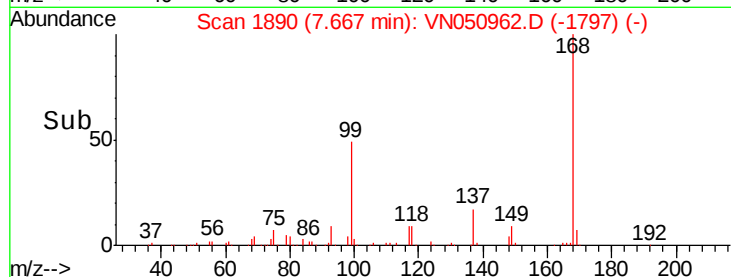
0

Time-->

7.60

7.70

7.80



#3

Chloromethane

Concen: 0.20 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050962.D

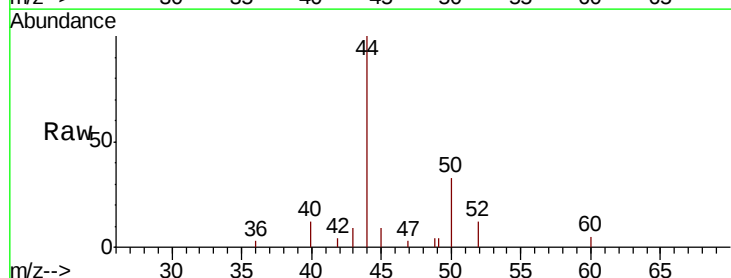
Acq: 30 Aug 2018 15:01

Tgt Ion: 50 Resp: 1879

Ion Ratio Lower Upper

50 100

52 35.9 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

2000

1500

1000

500

0

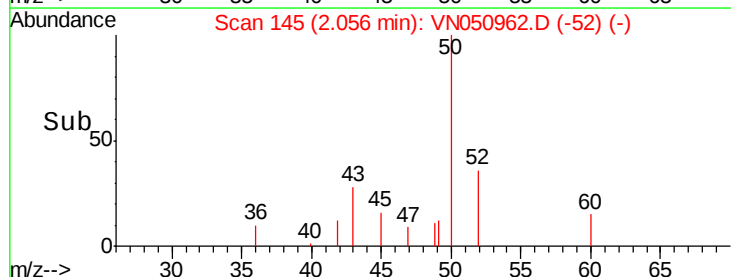
Time-->

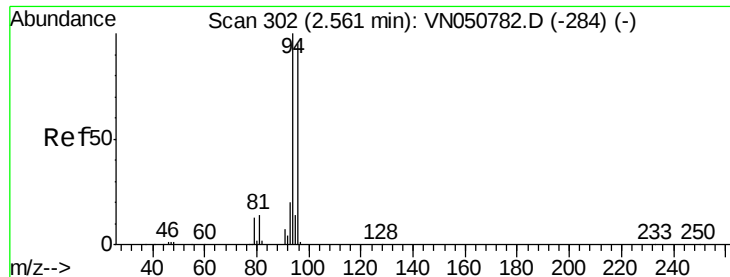
2.02

2.04

2.06

2.08





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050962.D

Acq: 30 Aug 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

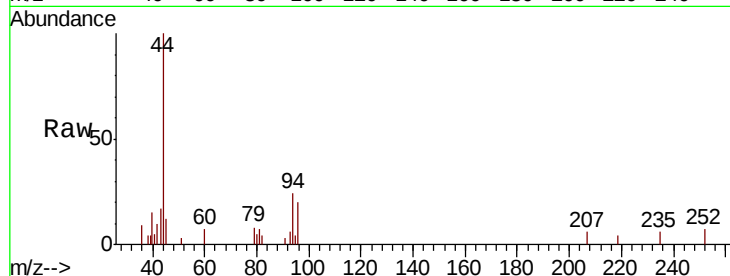
PB112481ZHE#06

Tot Ion: 94 Resp: 2299

Ion Ratio Lower Upper

94 100

96 83.8 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050962.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050962.D (-284) (-)

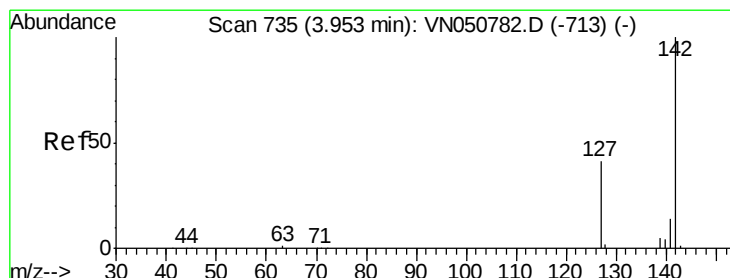
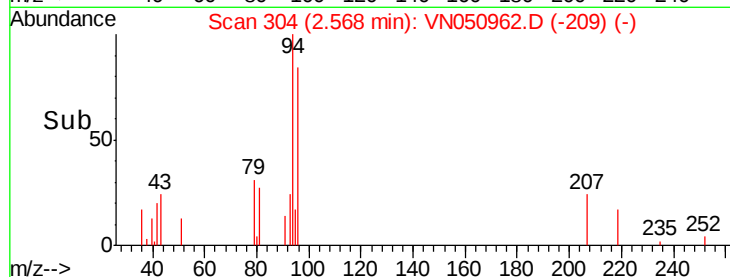
2.57

1000

500

0

Time-->



#10

Methyl Iodide

Concen: 6.39 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.00 min

Lab File: VN050962.D

Acq: 30 Aug 2018 15:01

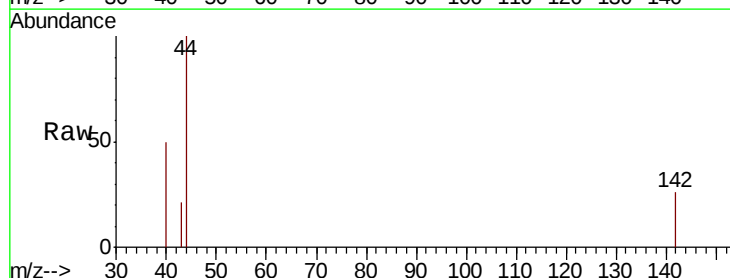
Tgt Ion: 142 Resp: 366

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): VN050962.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050962.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050962.D (-713) (-)

3.96

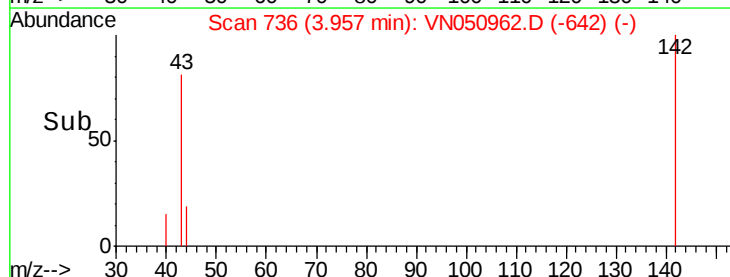
300

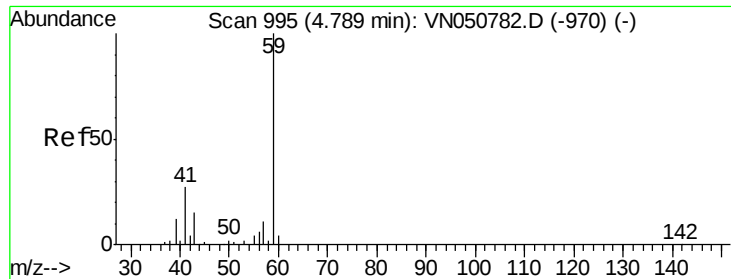
200

100

0

Time-->



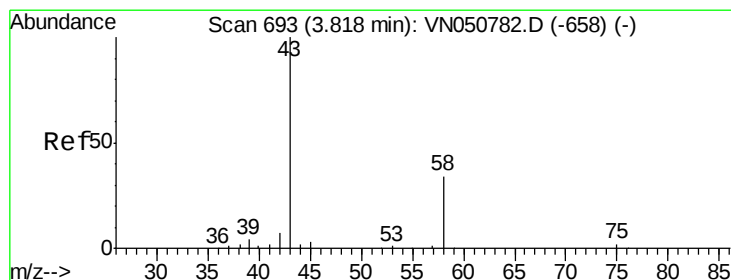
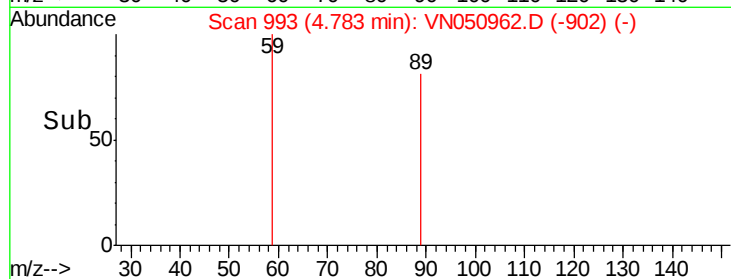
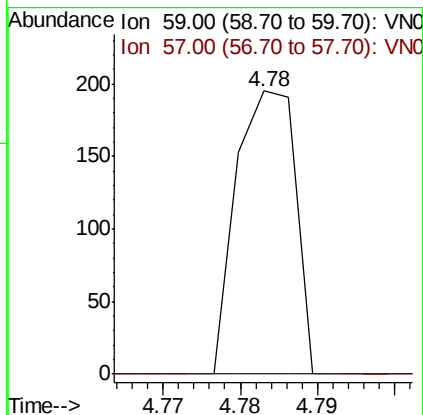
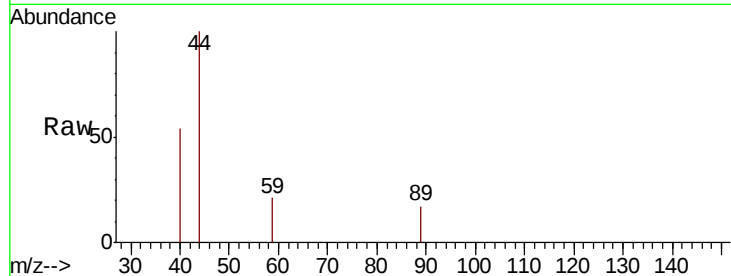


#11

Tert butyl alcohol
 Concen: 0.24 ug/l
 RT: 4.78 min Scan# 993
 Delta R.T. -0.01 min
 Lab File: VN050962.D
 Acq: 30 Aug 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112481ZHE#06

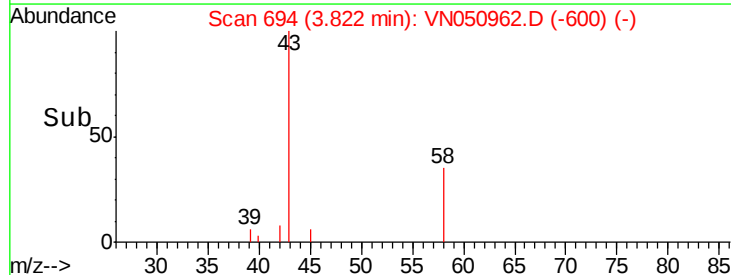
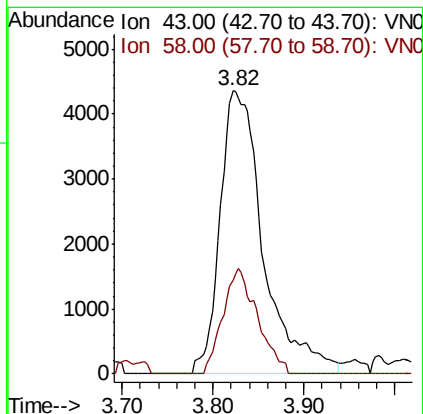
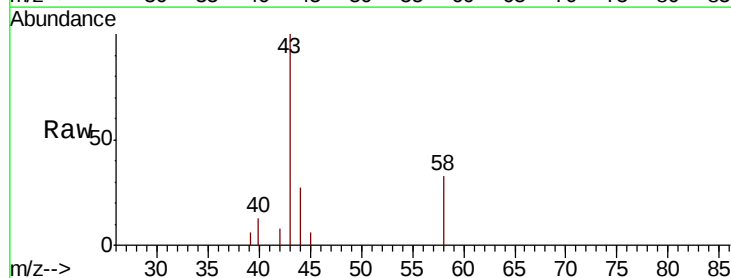
Tot Ion: 59 Resp: 104
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

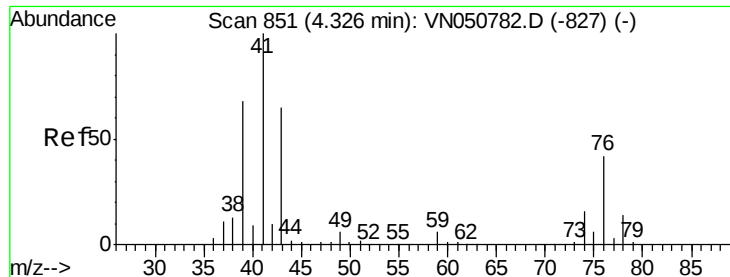


#16

Acetone
 Concen: 1.90 ug/l
 RT: 3.82 min Scan# 694
 Delta R.T. 0.00 min
 Lab File: VN050962.D
 Acq: 30 Aug 2018 15:01

Tgt Ion: 43 Resp: 14447
 Ion Ratio Lower Upper
 43 100
 58 33.1 27.2 40.8

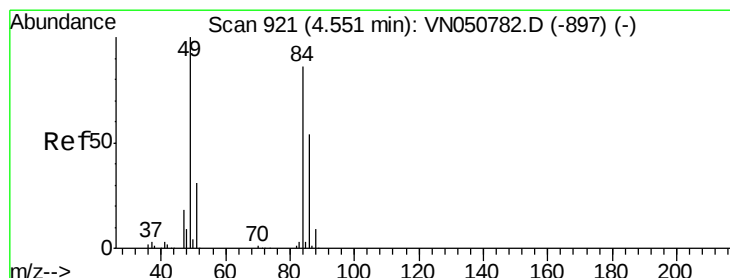
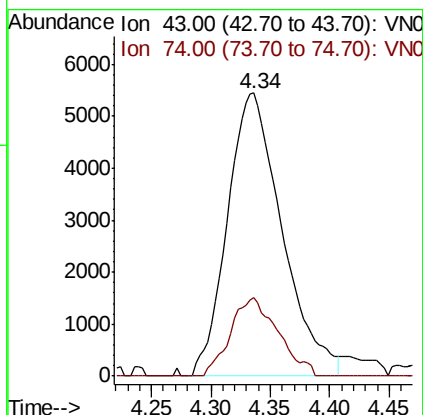
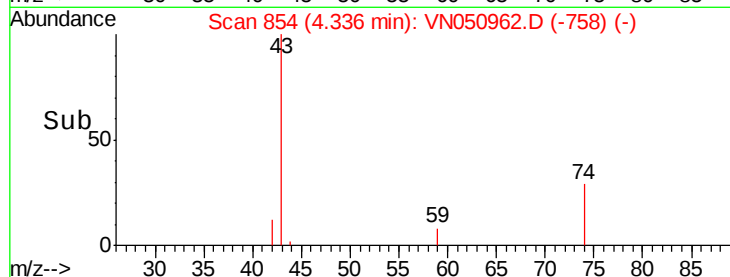
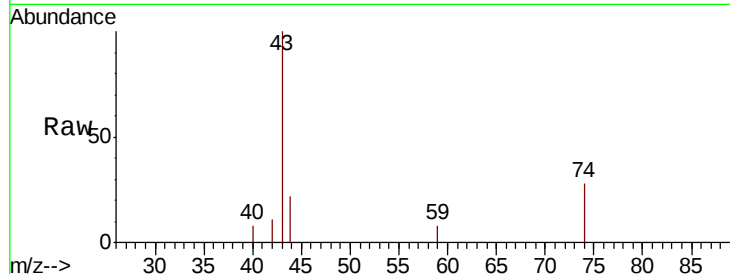




#18
Methyl Acetate
Concen: 2.68 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050962.D
Acq: 30 Aug 2018 15:01

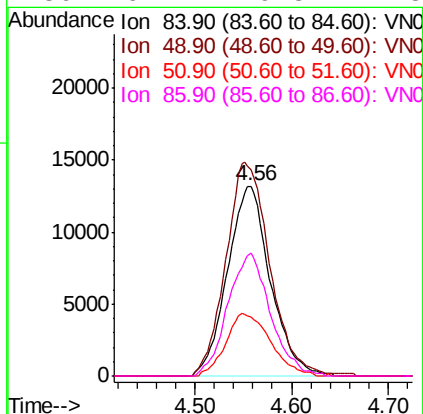
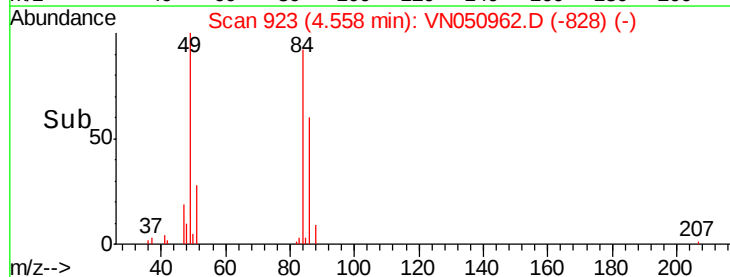
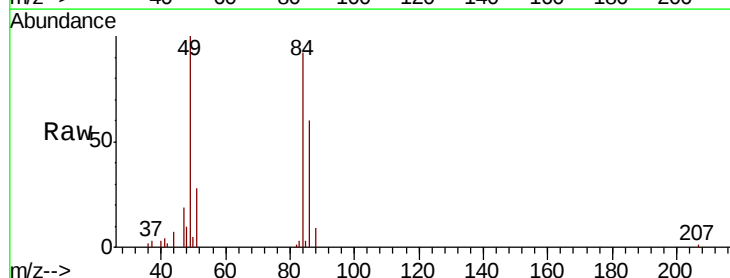
Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#06

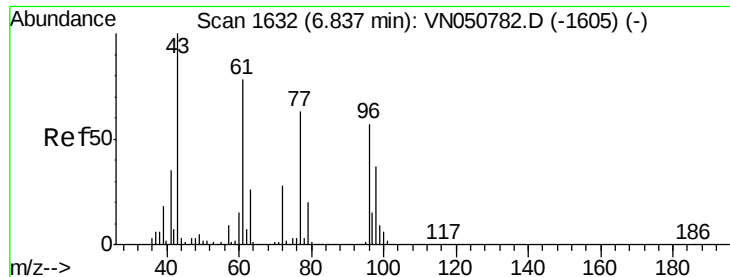
Tot Ion: 43 Resp: 17328
Ion Ratio Lower Upper
43 100
74 24.1 19.8 29.8



#20
Methylene Chloride
Concen: 5.26 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050962.D
Acq: 30 Aug 2018 15:01

Tgt Ion: 84 Resp: 40574
Ion Ratio Lower Upper
84 100
49 108.2 93.2 139.8
51 30.8 29.0 43.6
86 64.7 49.8 74.8





#25

2-Butanone

Concen: 0.78 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VN050962.D

Acq: 30 Aug 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

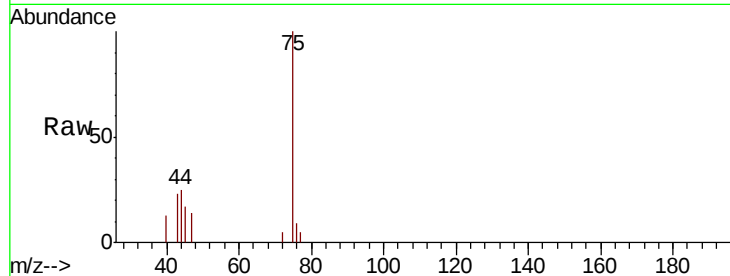
PB112481ZHE#06

Tot Ion: 43 Resp: 2145

Ion Ratio Lower Upper

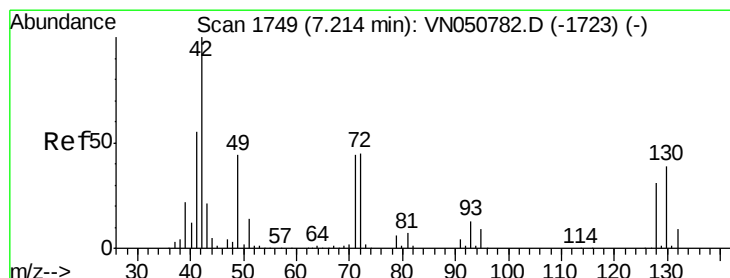
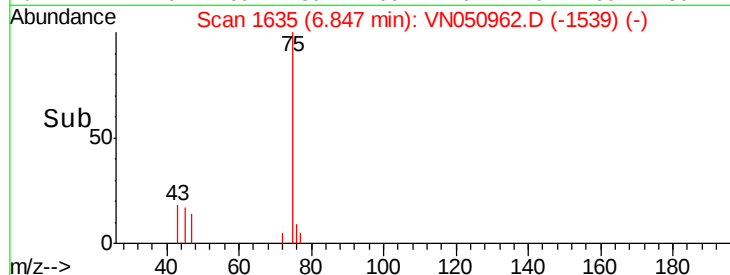
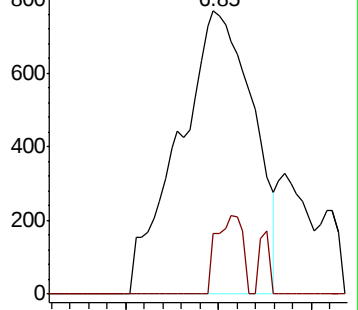
43 100

72 21.4 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 72.00 (71.70 to 72.70): VNC



#29

Tetrahydrofuran

Concen: 0.68 ug/l

RT: 7.23 min Scan# 1755

Delta R.T. 0.02 min

Lab File: VN050962.D

Acq: 30 Aug 2018 15:01

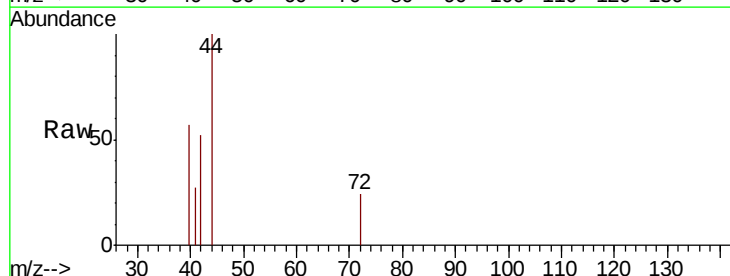
Tgt Ion: 42 Resp: 1084

Ion Ratio Lower Upper

42 100

72 13.7 35.5 53.3#

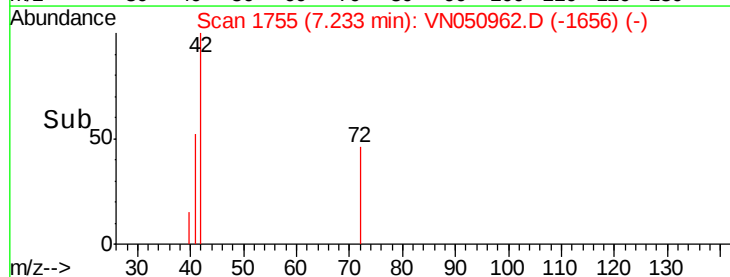
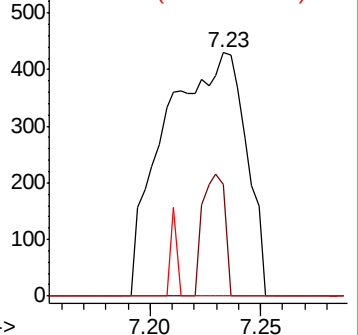
71 0.0 33.7 50.5#

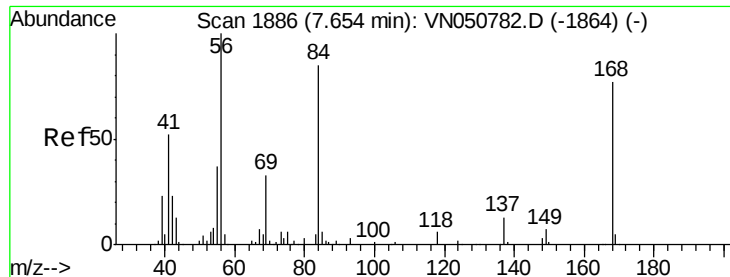


Abundance Ion 42.00 (41.70 to 42.70): VNC

Ion 72.00 (71.70 to 72.70): VNC

Ion 71.00 (70.70 to 71.70): VNC





#31

Cyclohexane

Concen: 1.29 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050962.D

Acq: 30 Aug 2018 15:01

Instrument :

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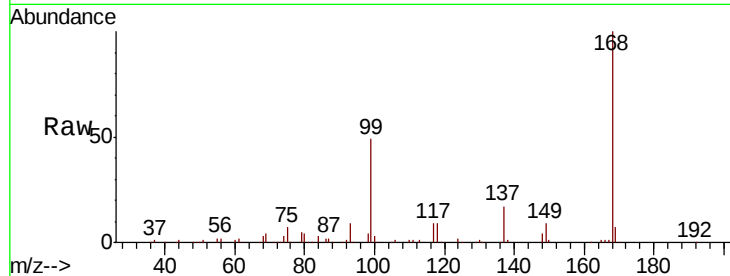
Tot Ion: 56 Resp: 9655

Ion Ratio Lower Upper

56 100

69 226.6 26.2 39.4#

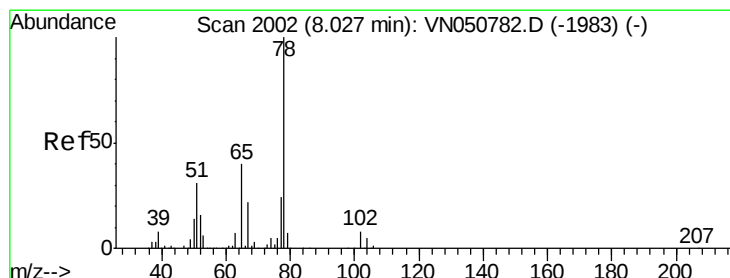
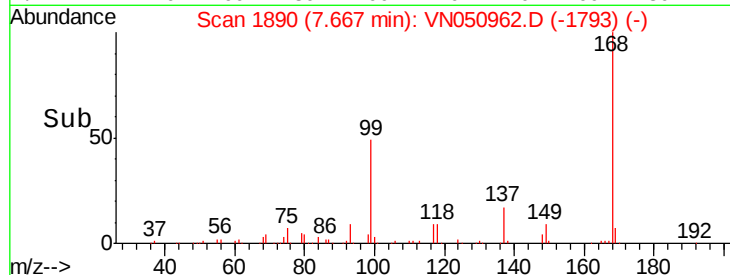
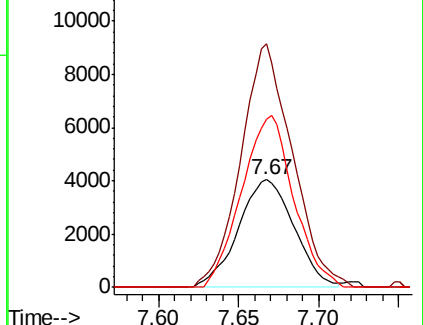
84 156.5 68.3 102.5#



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: 55.68 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050962.D

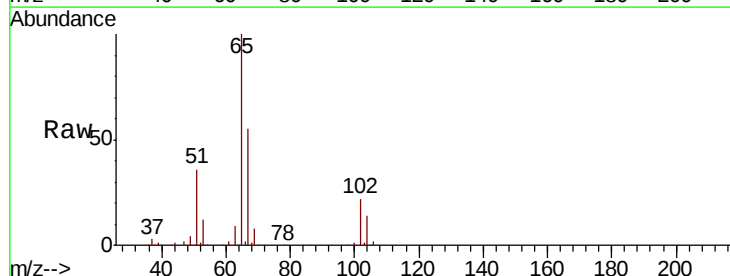
Acq: 30 Aug 2018 15:01

Tgt Ion: 65 Resp: 381365

Ion Ratio Lower Upper

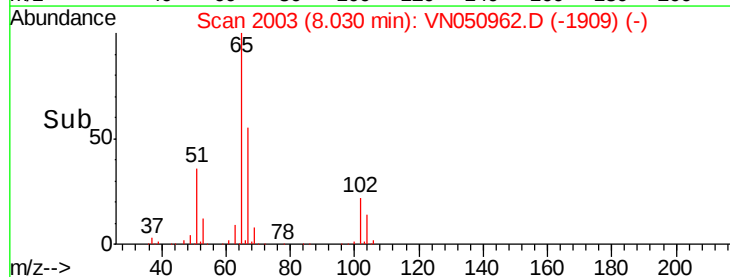
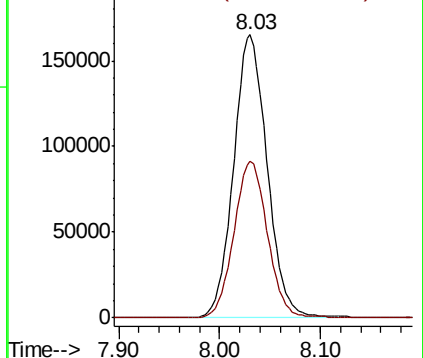
65 100

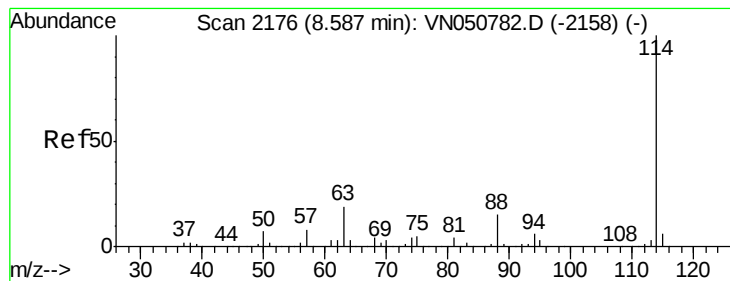
67 55.3 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050962.D

Acq: 30 Aug 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#06

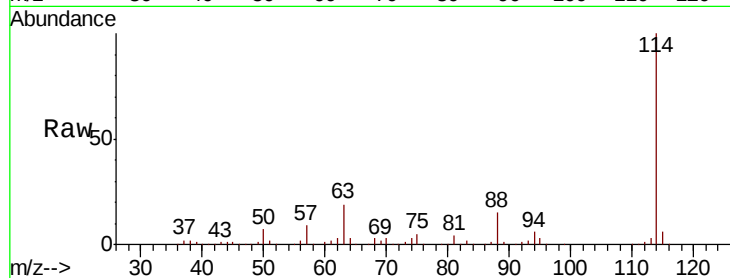
Tot Ion:114 Resp: 955803

Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.6

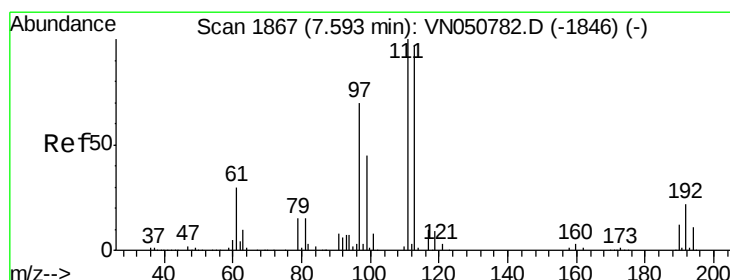
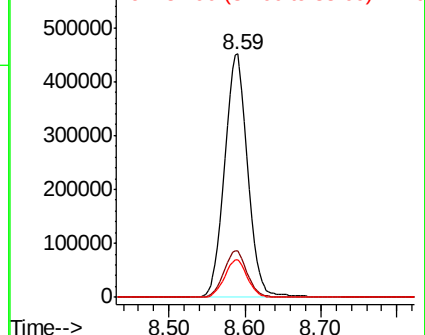
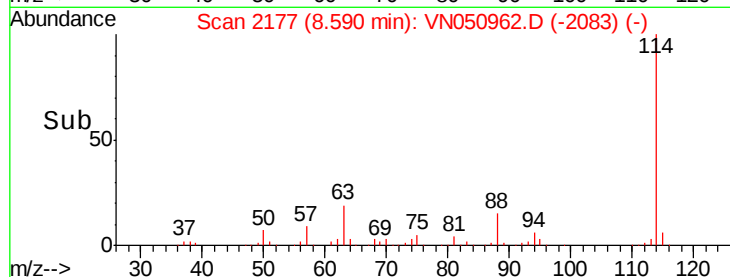
88 15.3 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 47.64 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN050962.D

Acq: 30 Aug 2018 15:01

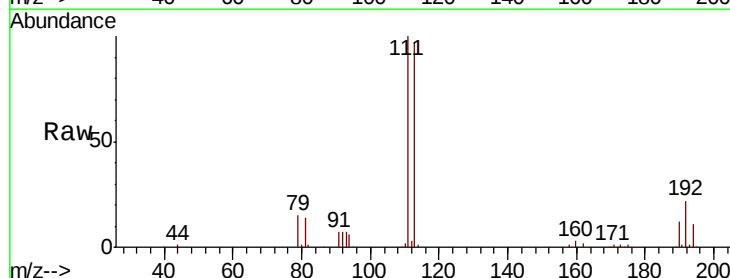
Tgt Ion:113 Resp: 362247

Ion Ratio Lower Upper

113 100

111 102.0 82.6 123.8

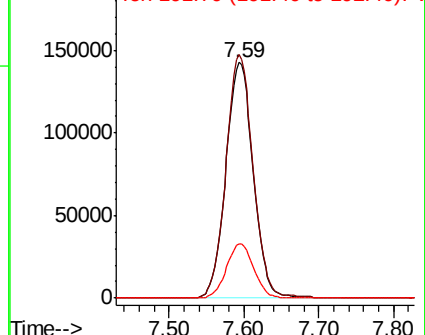
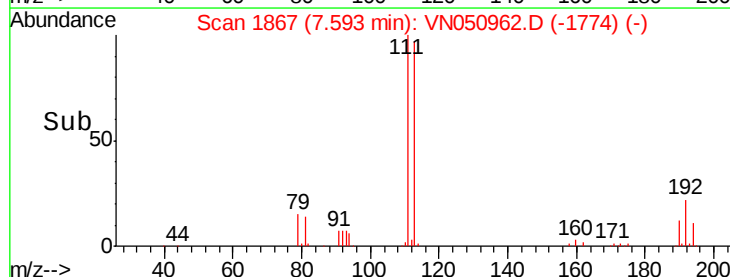
192 22.9 18.0 27.0

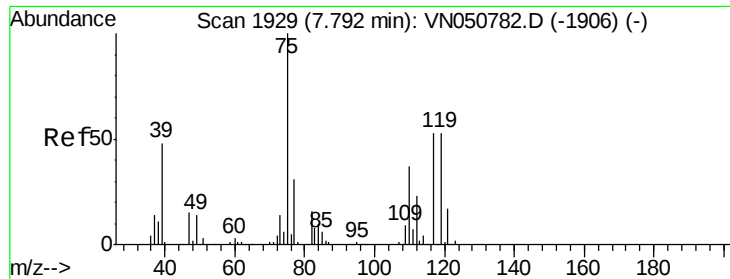


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

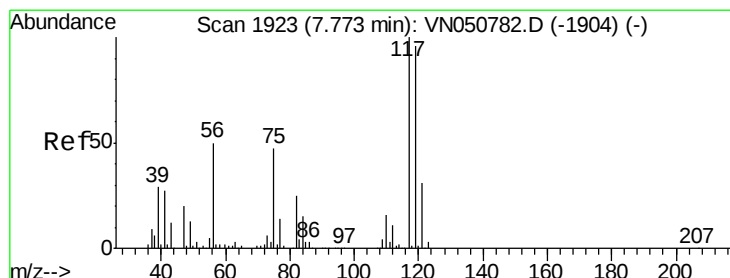
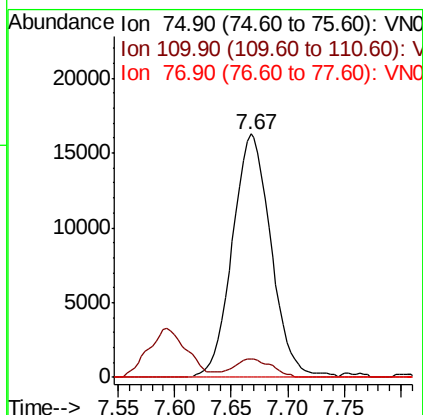
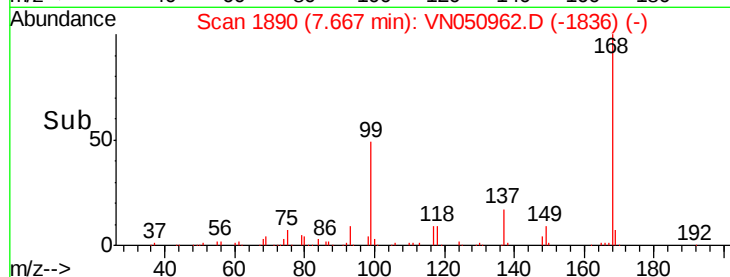
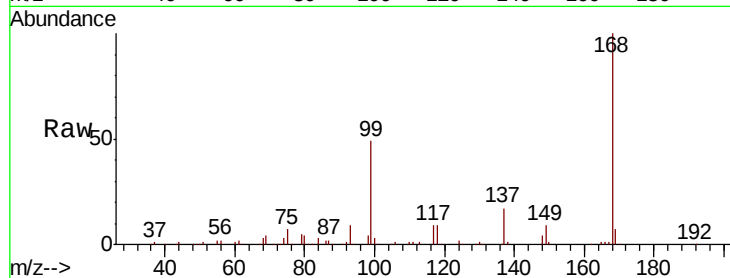




#36
 1,1-Dichloropropene
 Concen: 3.43 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050962.D
 Acq: 30 Aug 2018 15:01

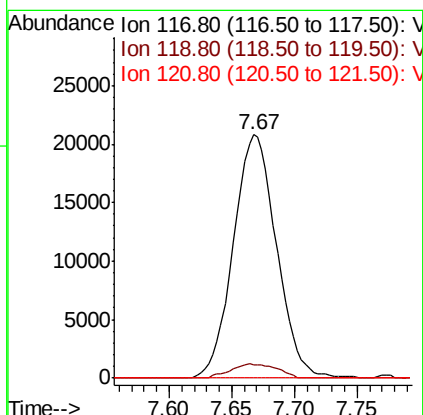
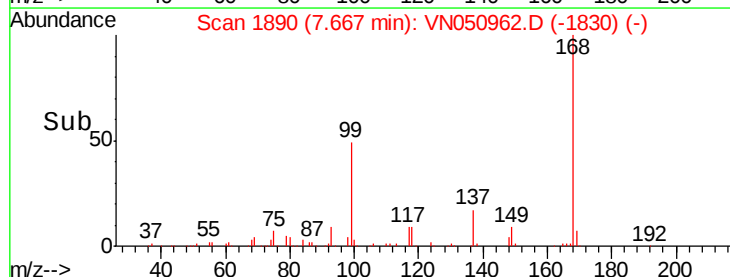
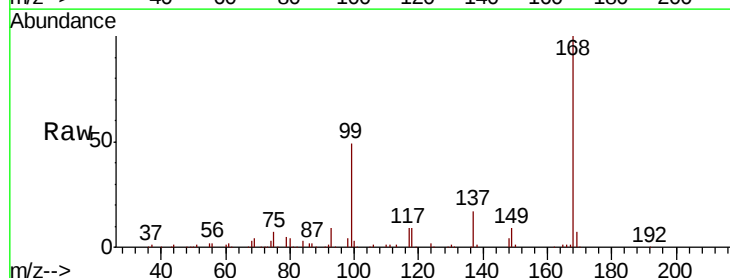
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112481ZHE#06

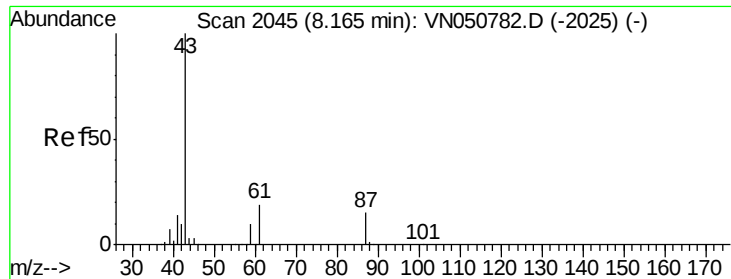
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.3	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.36 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050962.D
 Acq: 30 Aug 2018 15:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.3	114.5#
121	0.0	24.6	36.8#



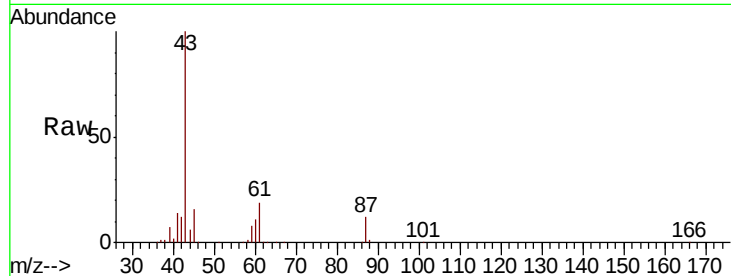


#43

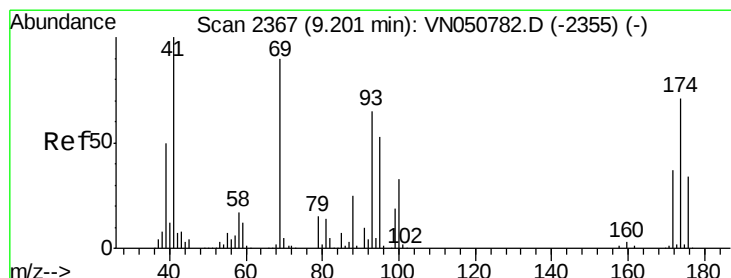
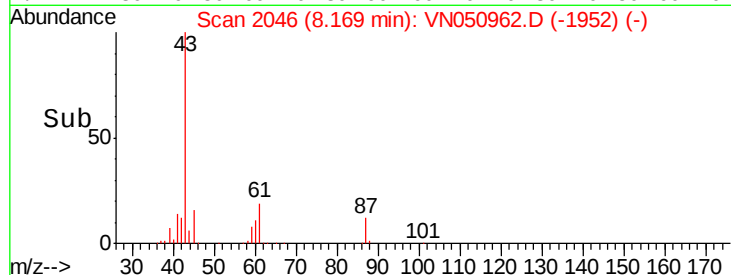
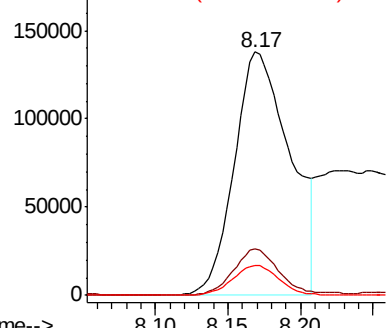
Isopropyl Acetate
 Concen: 33.25 ug/l
 RT: 8.17 min Scan# 2046
 Delta R.T. 0.00 min
 Lab File: VN050962.D
 Acq: 30 Aug 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112481ZHE#06

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.1	17.5	26.3#
87	10.1	11.3	16.9#



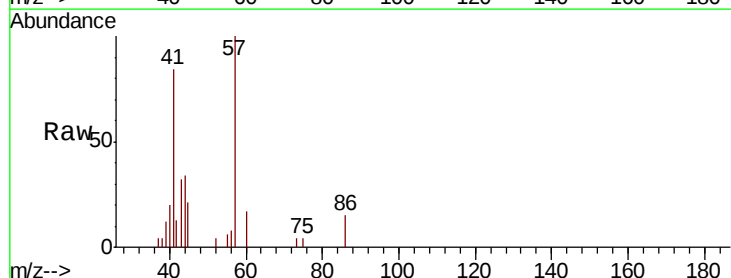
Abundance Ion 43.00 (42.70 to 43.70): VNC
 Ion 61.00 (60.70 to 61.70): VNC
 Ion 87.00 (86.70 to 87.70): VNC



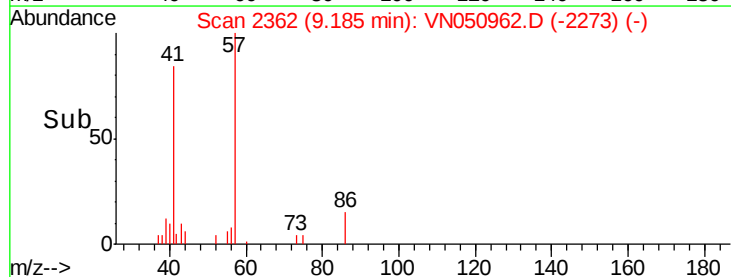
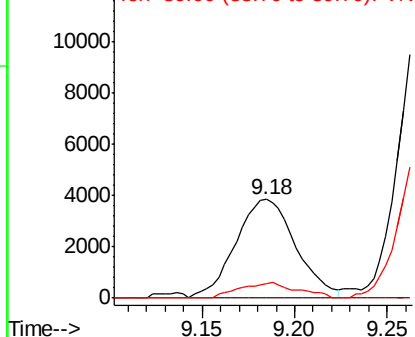
#48

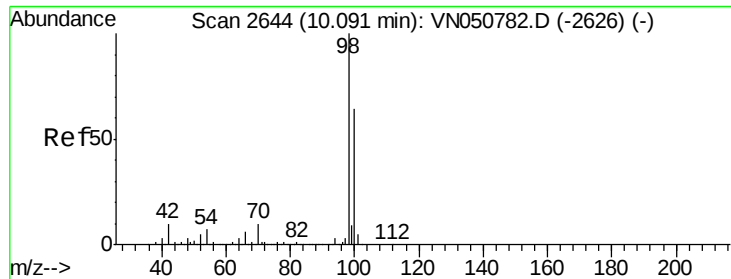
Methyl methacrylate
 Concen: 1.52 ug/l
 RT: 9.18 min Scan# 2362
 Delta R.T. -0.02 min
 Lab File: VN050962.D
 Acq: 30 Aug 2018 15:01

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	74.7	112.1#
39	15.2	42.2	63.2#



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

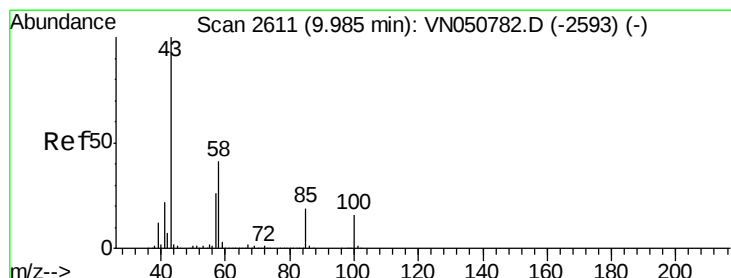
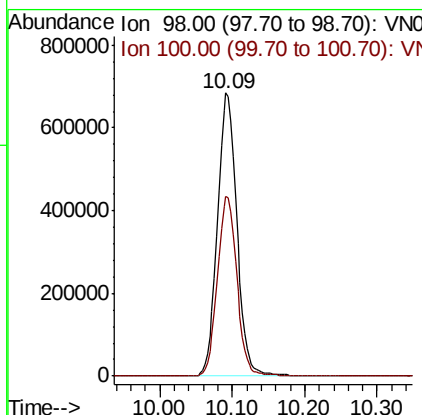
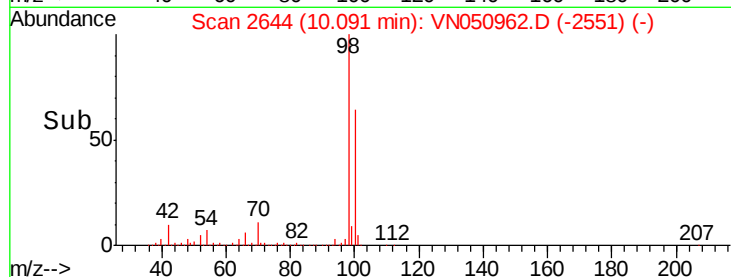
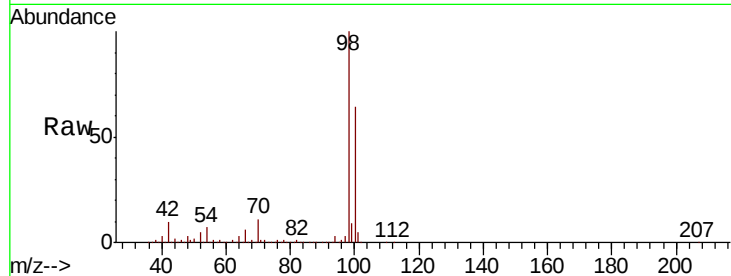




#50
Toluene-d8
Concen: 44.85 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050962.D
Acq: 30 Aug 2018 15:01

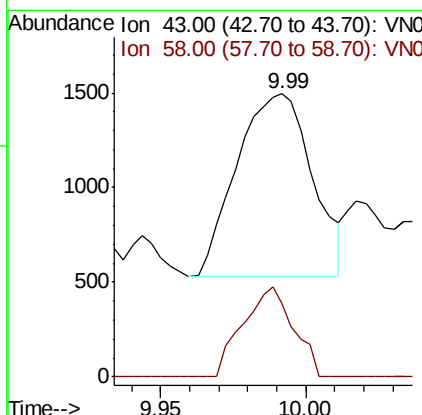
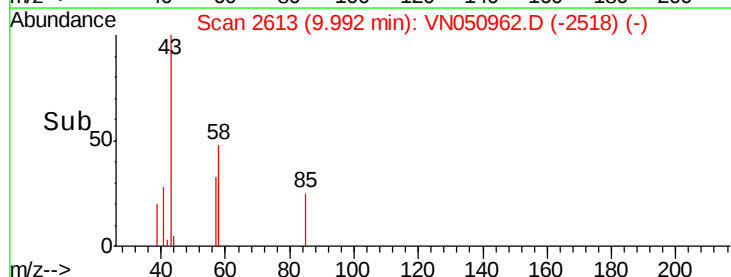
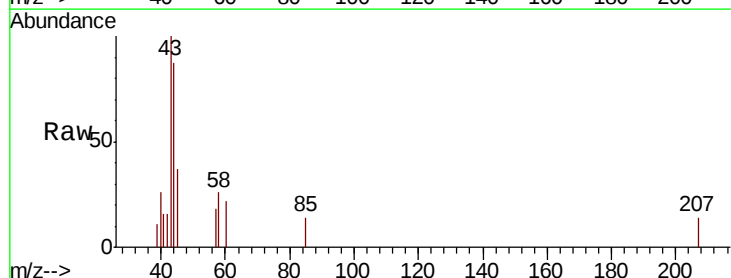
Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#06

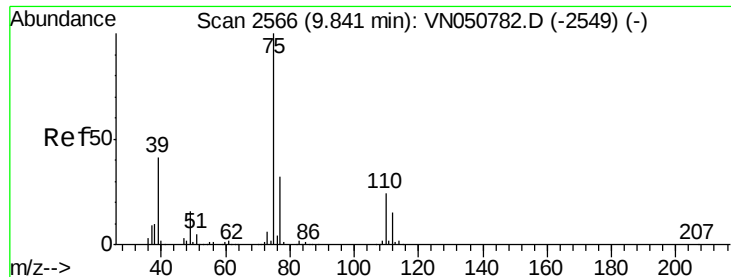
Tot Ion: 98 Resp: 1275078
Ion Ratio Lower Upper
98 100
100 63.7 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 0.26 ug/l
RT: 9.99 min Scan# 2613
Delta R.T. 0.01 min
Lab File: VN050962.D
Acq: 30 Aug 2018 15:01

Tgt Ion: 43 Resp: 1741
Ion Ratio Lower Upper
43 100
58 33.0 32.4 48.6



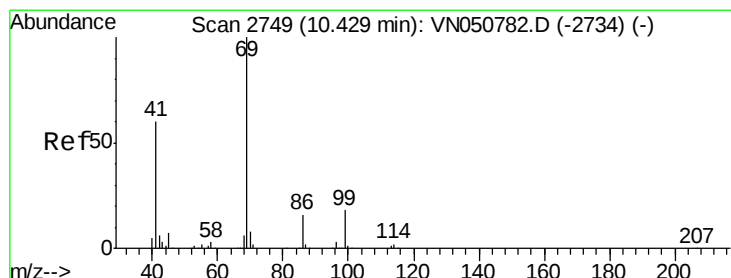
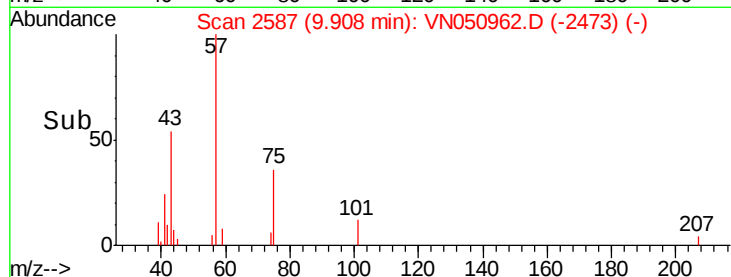
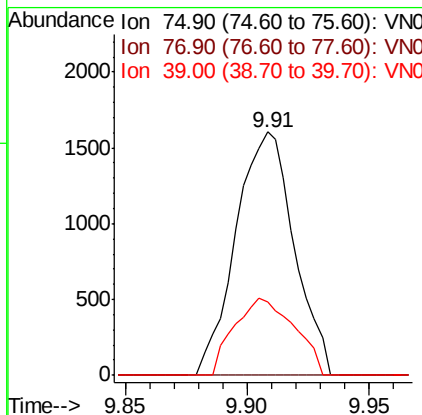
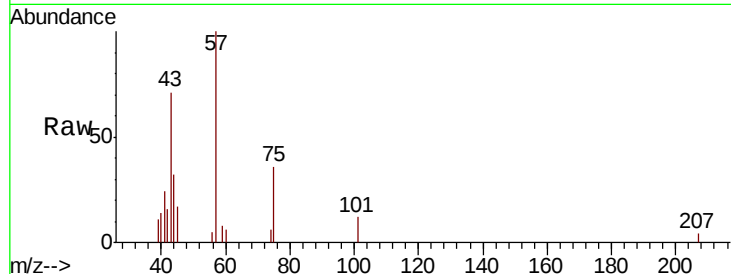


#54

cis-1,3-Dichloropropene
 Concen: 0.21 ug/l
 RT: 9.91 min Scan# 2587
 Delta R.T. 0.07 min
 Lab File: VN050962.D
 Acq: 30 Aug 2018 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112481ZHE#06

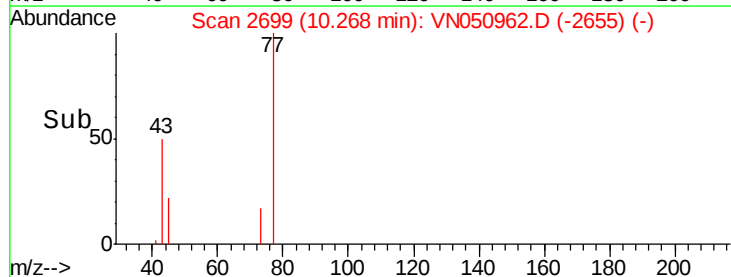
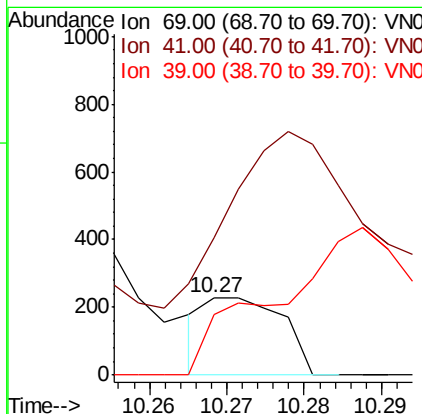
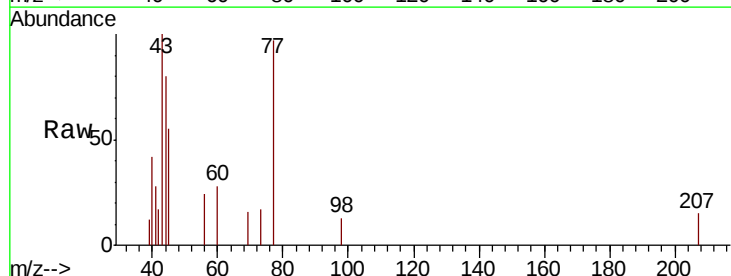
Tot Ion: 75 Resp: 2653
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 30.0 33.0 49.4#

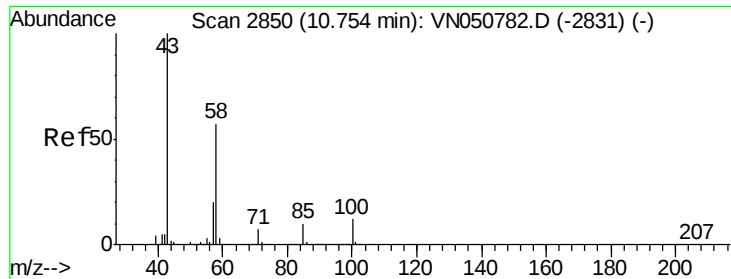


#56

Ethyl methacrylate
 Concen: 2.37 ug/l
 RT: 10.27 min Scan# 2699
 Delta R.T. -0.16 min
 Lab File: VN050962.D
 Acq: 30 Aug 2018 15:01

Tgt Ion: 69 Resp: 159
 Ion Ratio Lower Upper
 69 100
 41 766.7 48.3 72.5#
 39 415.1 24.0 36.0#





#59

2-Hexanone

Concen: 4.18 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050962.D

Acq: 30 Aug 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

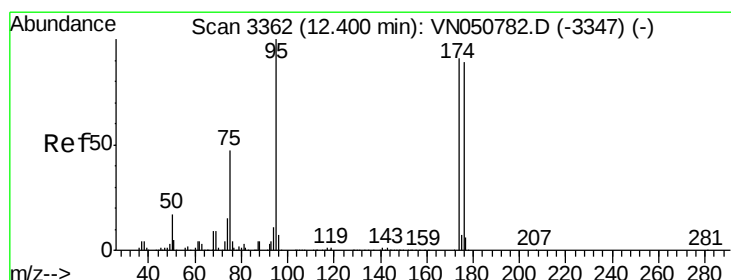
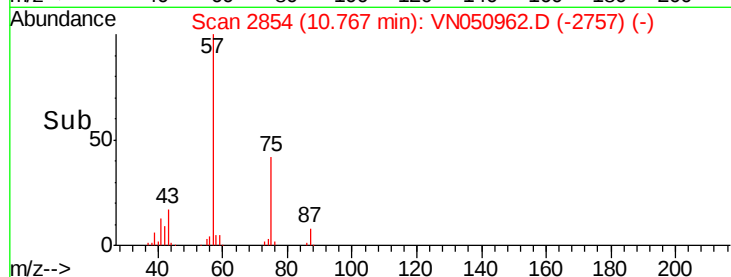
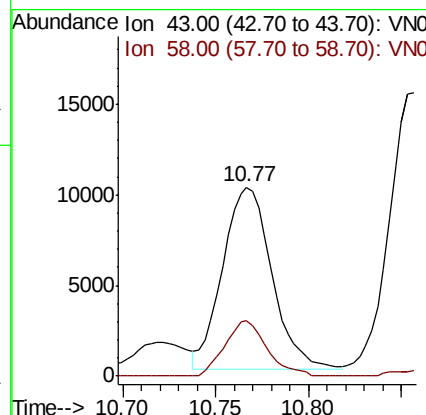
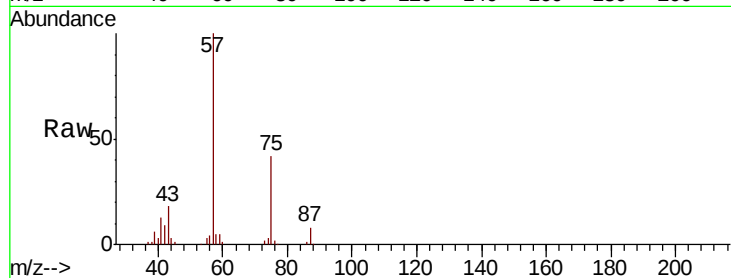
PB112481ZHE#06

Tot Ion: 43 Resp: 18490

Ion Ratio Lower Upper

43 100

58 26.1 28.3 85.0#



#62

4-Bromofluorobenzene

Concen: 36.51 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050962.D

Acq: 30 Aug 2018 15:01

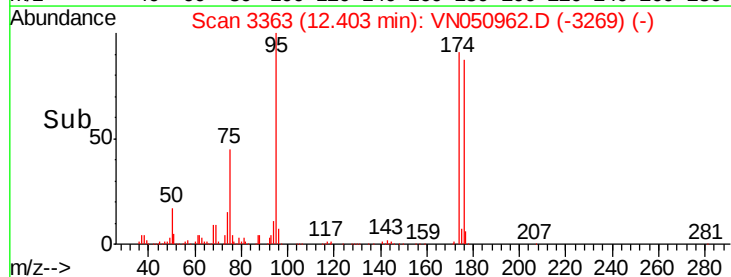
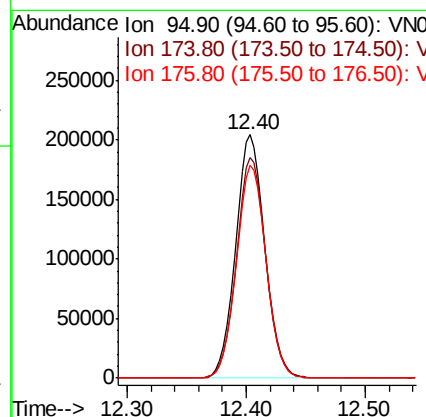
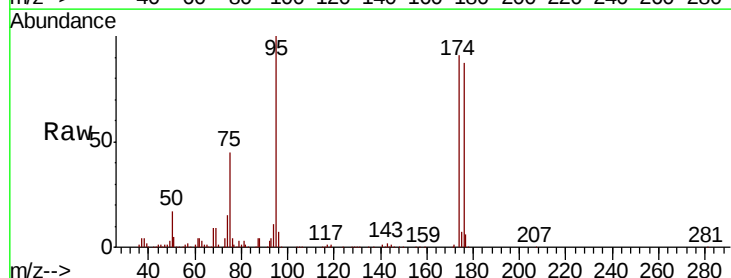
Tgt Ion: 95 Resp: 344898

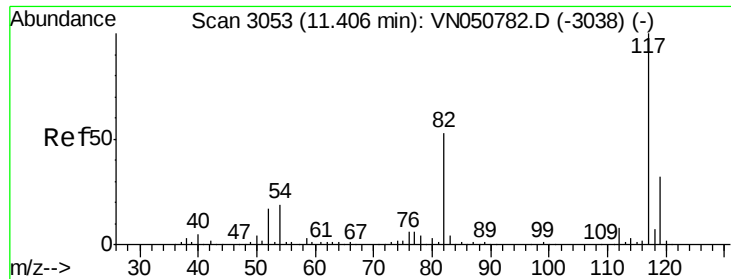
Ion Ratio Lower Upper

95 100

174 92.0 0.0 183.0

176 88.8 0.0 178.8

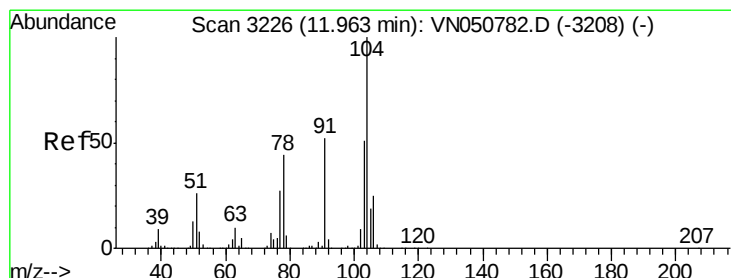
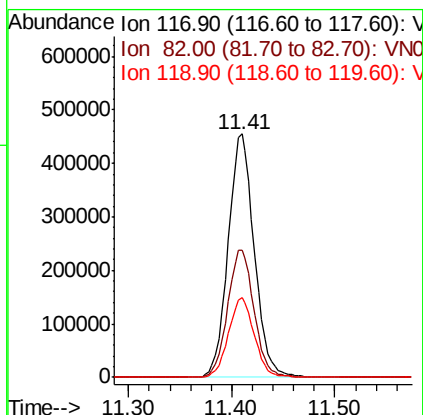
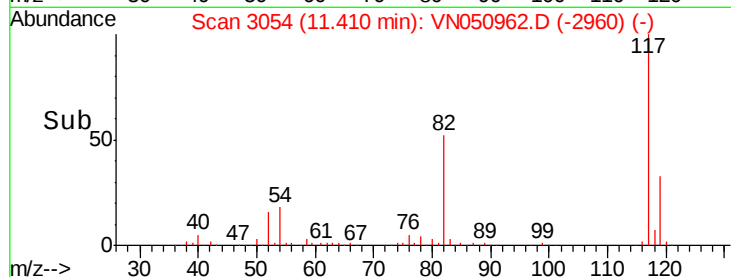
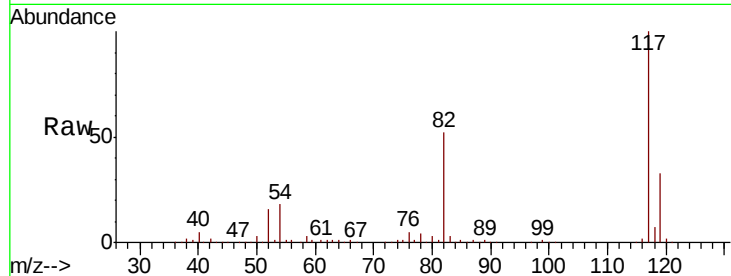




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050962.D
Acq: 30 Aug 2018 15:01

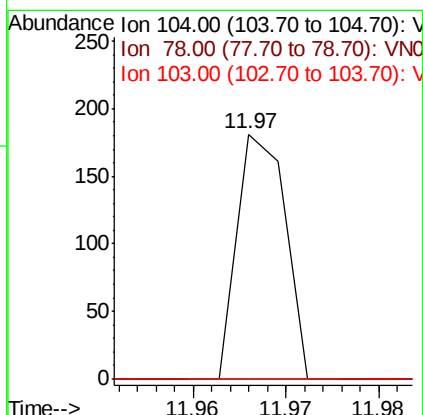
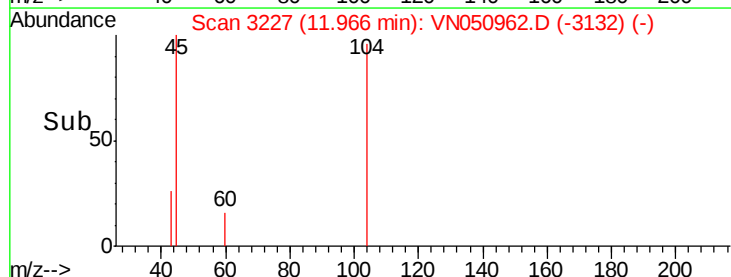
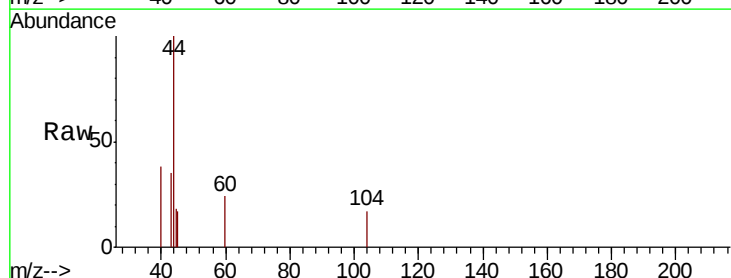
Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#06

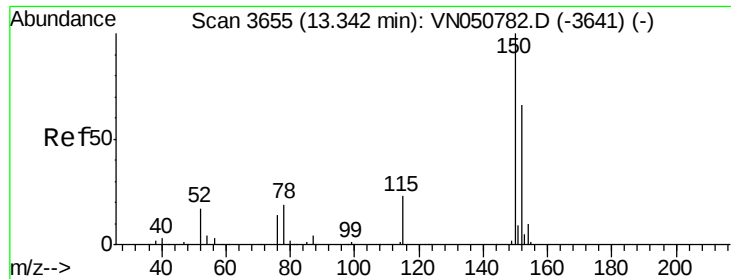
Tot Ion:117 Resp: 800710
Ion Ratio Lower Upper
117 100
82 52.5 42.6 64.0
119 32.6 25.8 38.6



#70
Styrene
Concen: 1.27 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050962.D
Acq: 30 Aug 2018 15:01

Tgt Ion:104 Resp: 66
Ion Ratio Lower Upper
104 100
78 0.0 38.2 57.4#
103 0.0 44.4 66.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050962.D

Acq: 30 Aug 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#06

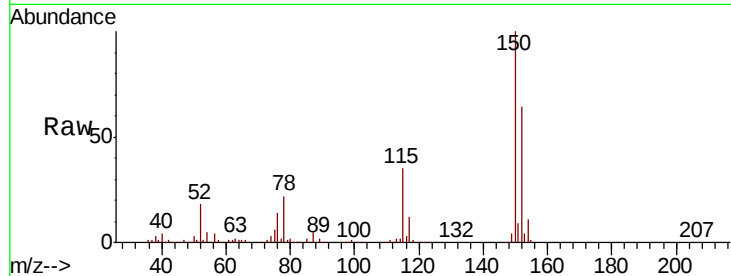
Tot Ion:152 Resp: 271407

Ion Ratio Lower Upper

152 100

115 55.5 27.8 83.4

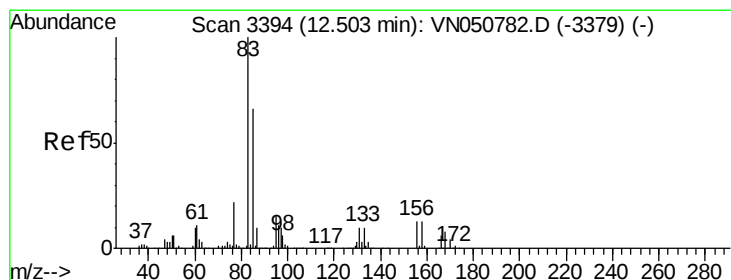
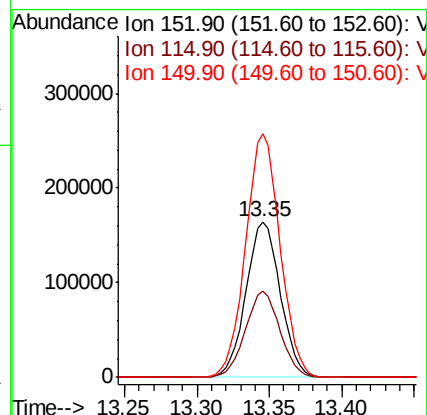
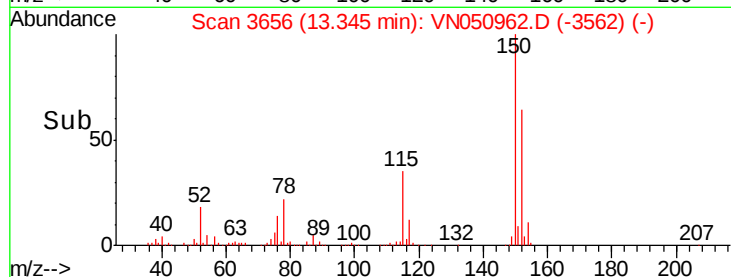
150 156.7 0.0 351.4



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: 12.40 min Scan# 3363

Delta R.T. -0.10 min

Lab File: VN050962.D

Acq: 30 Aug 2018 15:01

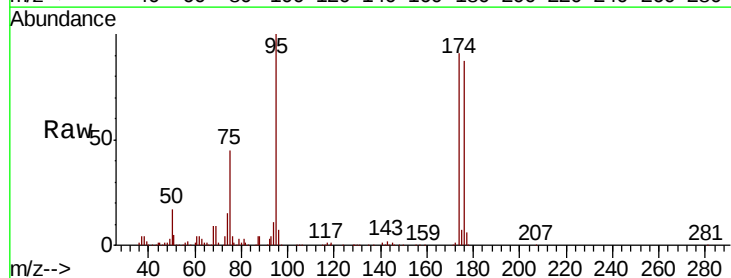
Tgt Ion: 83 Resp: 137

Ion Ratio Lower Upper

83 100

131 258.4 5.3 15.9#

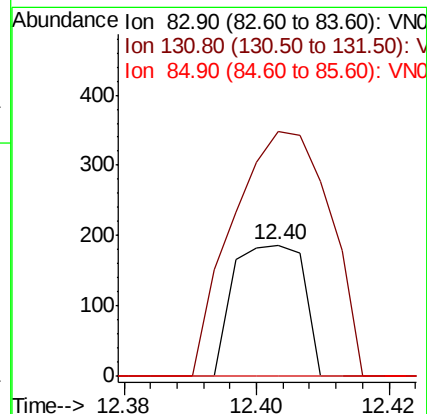
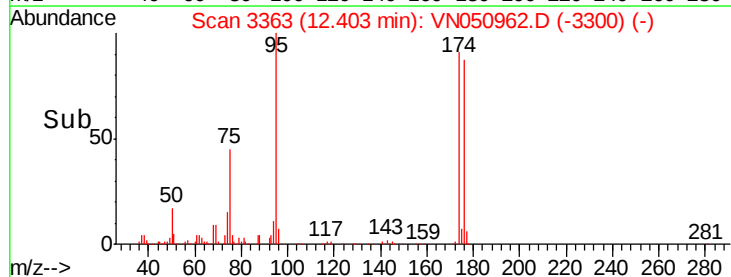
85 0.0 31.9 95.7#

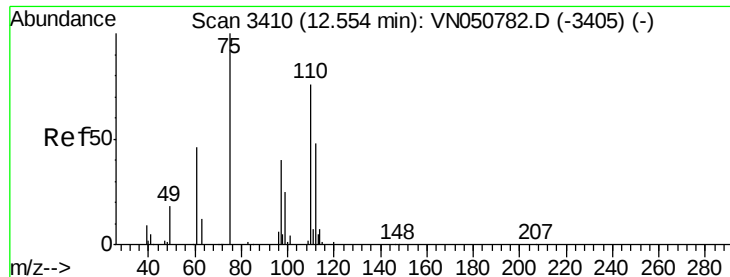


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 33.39 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050962.D

Acq: 30 Aug 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

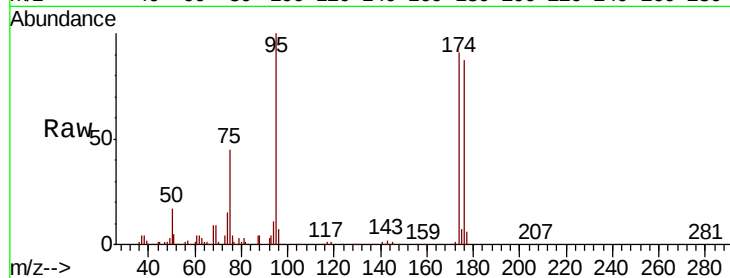
PB112481ZHE#06

Tot Ion: 75 Resp: 158746

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

100000

80000

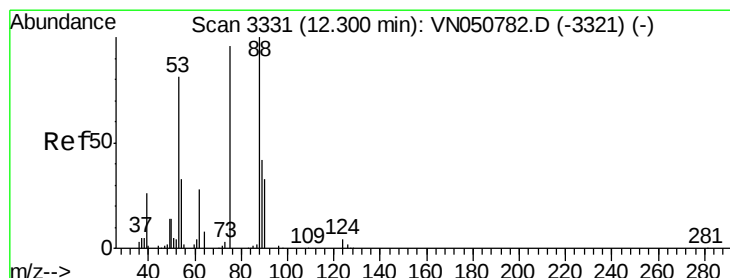
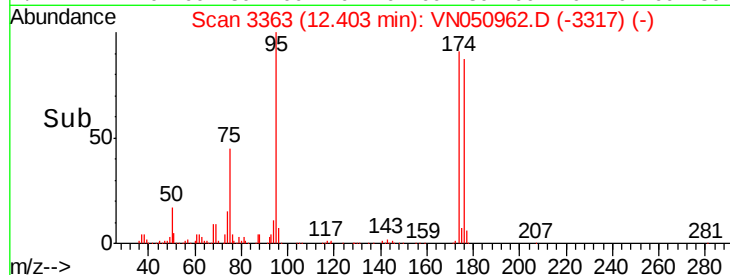
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 112.89 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050962.D

Acq: 30 Aug 2018 15:01

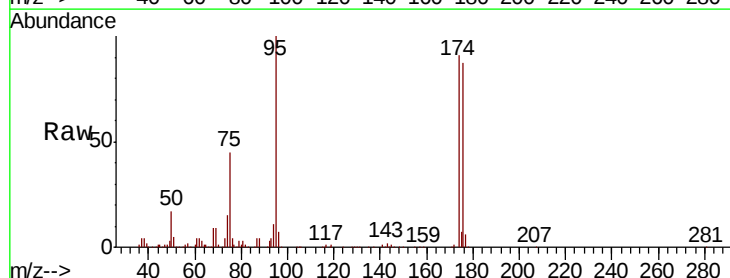
Tgt Ion: 75 Resp: 158746

Ion Ratio Lower Upper

75 100

53 0.3 68.9 103.3#

89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

120000

100000

80000

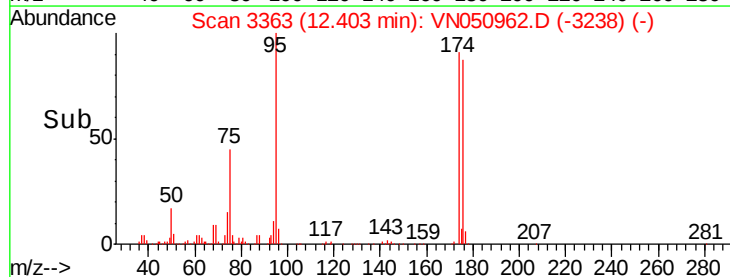
60000

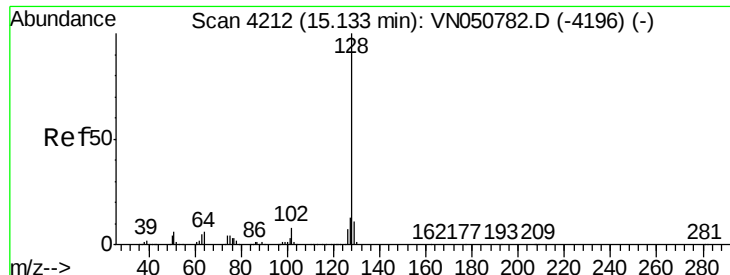
40000

20000

0

Time-->





#95

Naphthalene

Concen: 5.42 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050962.D

Acq: 30 Aug 2018 15:01

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#06

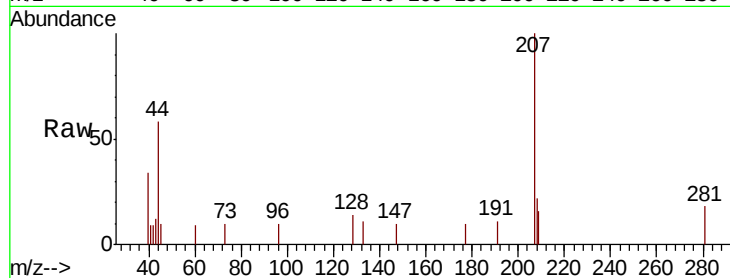
Tot Ion:128 Resp: 212

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): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

