

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\
 Data File : VN050963.D
 Acq On : 30 Aug 2018 15:26
 Operator : MD\SY
 Sample : PB112481ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112481ZHE#07

Quant Time: Aug 31 01:36:50 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	586135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	982118	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	833899	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	289644	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	395598	56.06	ug/l	0.00
Spiked Amount			Recovery	=	112.12%	
35) Dibromofluoromethane	7.59	113	372809	47.71	ug/l	0.00
Spiked Amount			Recovery	=	95.42%	
50) Toluene-d8	10.09	98	1324380	45.34	ug/l	0.00
Spiked Amount			Recovery	=	90.68%	
62) 4-Bromofluorobenzene	12.40	95	358948	36.98	ug/l	0.00
Spiked Amount			Recovery	=	73.96%	

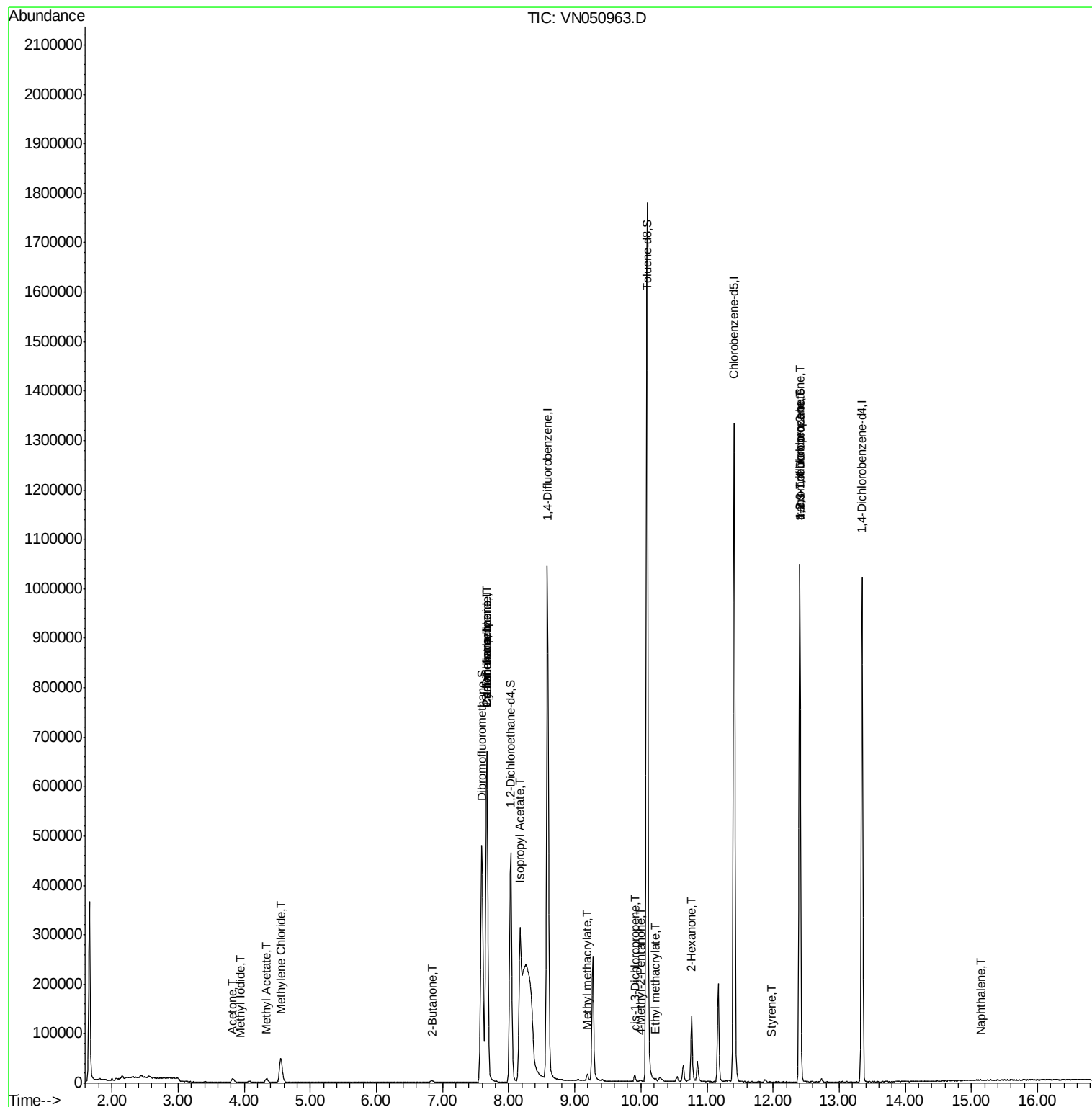
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	2086	Below Cal		86
10) Methyl Iodide	3.95	142	358	6.39	ug/l #	43
16) Acetone	3.82	43	13901	1.29	ug/l	89
18) Methyl Acetate	4.34	43	15846	2.38	ug/l	97
20) Methylene Chloride	4.55	84	39669	4.99	ug/l	98
25) 2-Butanone	6.85	43	666	0.23	ug/l #	66
31) Cyclohexane	7.67	56	10284	1.31	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	39743	3.43	ug/l #	49
38) Carbon Tetrachloride	7.67	117	50811	4.34	ug/l #	17
43) Isopropyl Acetate	8.17	43	399739	34.92	ug/l #	87
48) Methyl methacrylate	9.18	41	8831	1.51	ug/l #	19
51) 4-Methyl-2-Pentanone	9.98	43	2137	0.31	ug/l	95
54) cis-1,3-Dichloropropene	9.91	75	2787	0.22	ug/l #	63
56) Ethyl methacrylate	10.23	69	2347	2.57	ug/l	99
59) 2-Hexanone	10.77	43	18681	4.11	ug/l #	55
70) Styrene	11.97	104	236	1.28	ug/l #	26
76) 1,2,3-Trichloropropane	12.40	75	169291	33.37	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	169291	112.81	ug/l #	15
95) Naphthalene	15.14	128	29	5.40	ug/l #	69

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

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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: VN050963.D

Acq: 30 Aug 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

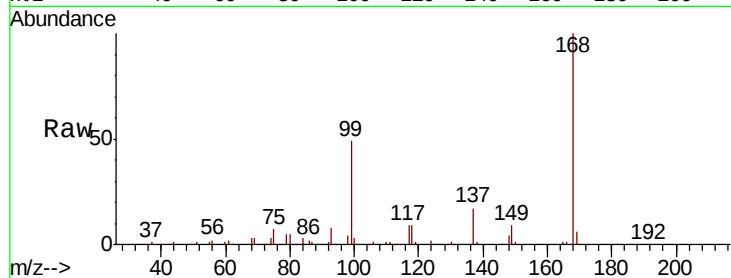
PB112481ZHE#07

Tot Ion:168 Resp: 586135

Ion Ratio Lower Upper

168 100

99 48.8 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN050963.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN050963.D (-1797) (-)

7.67

250000

200000

150000

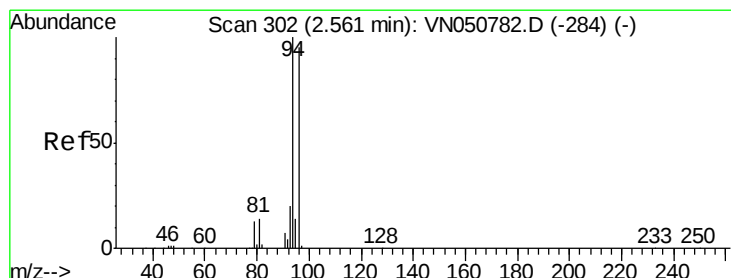
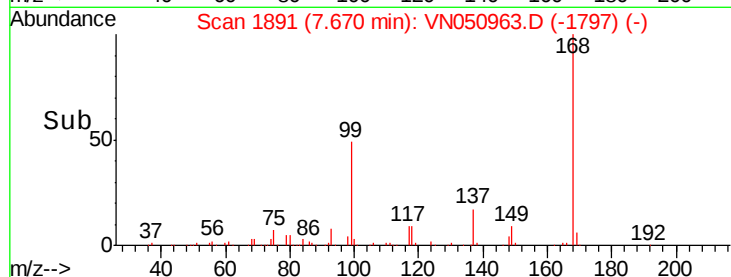
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050963.D

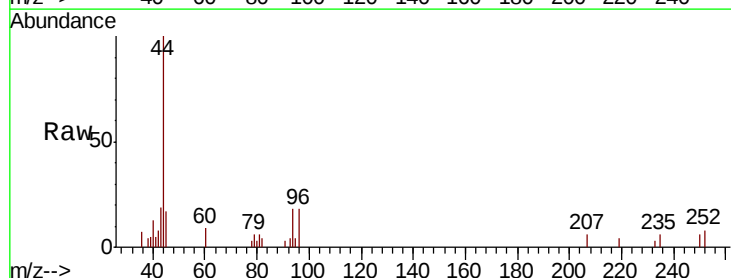
Acq: 30 Aug 2018 15:26

Tgt Ion: 94 Resp: 2086

Ion Ratio Lower Upper

94 100

96 82.0 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050963.D (-209) (-)

Ion 95.90 (95.60 to 96.60): VN050963.D (-209) (-)

2.57

1000

800

600

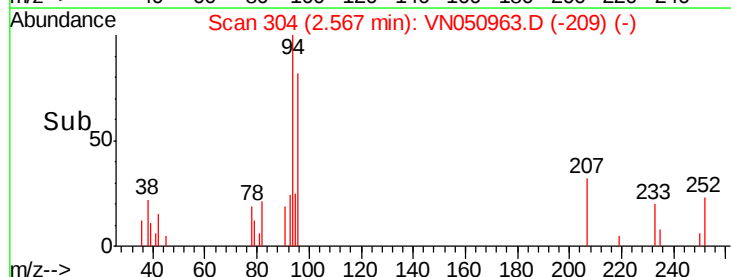
400

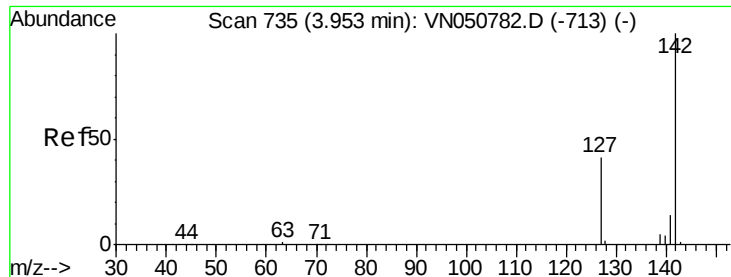
200

0

2.50 2.55 2.60

Time-->

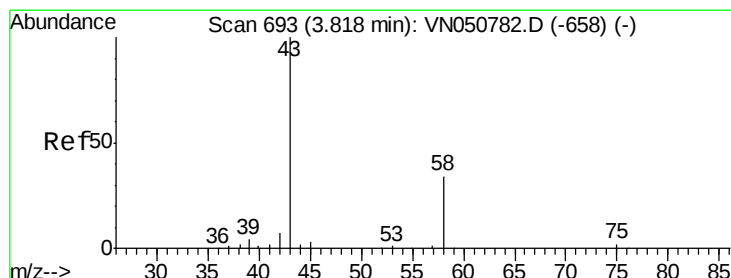
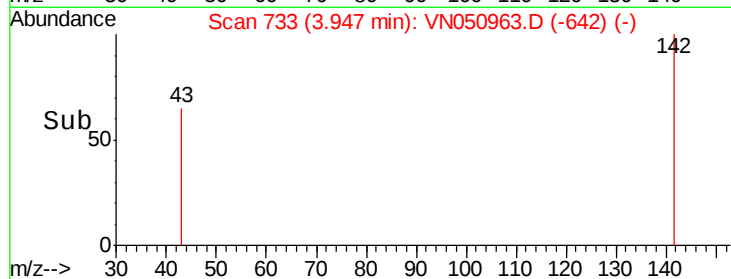
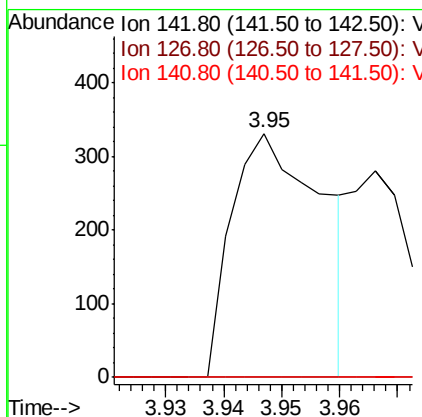
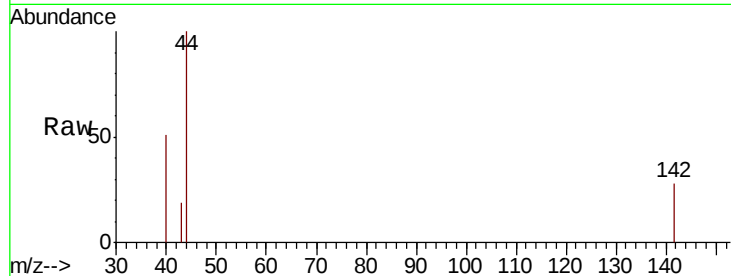




#10
Methvl Iodide
Concen: 6.39 ug/l
RT: 3.95 min Scan# 733
Delta R.T. -0.01 min
Lab File: VN050963.D
Acq: 30 Aug 2018 15:26

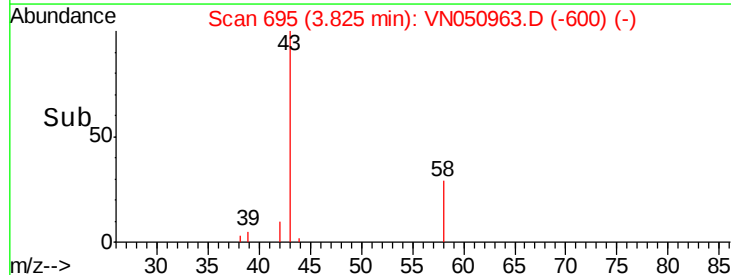
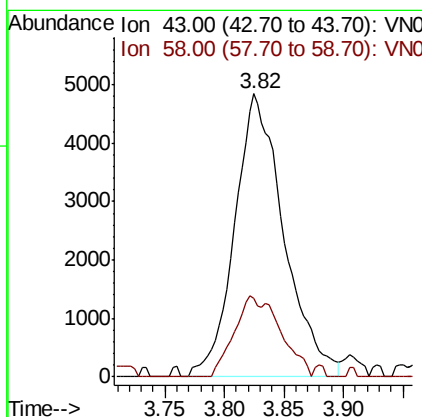
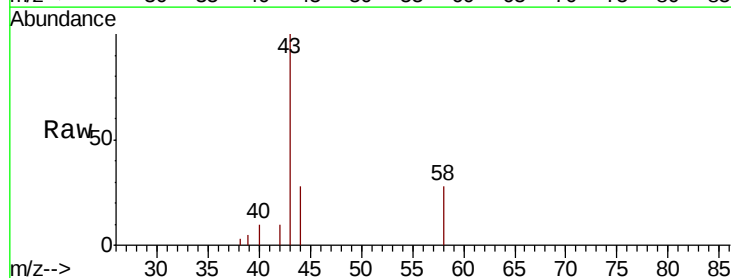
Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#07

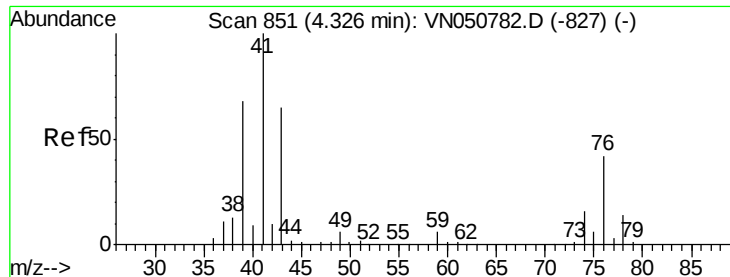
Tot Ion:142 Resp: 358
Ion Ratio Lower Upper
142 100
127 0.0 31.7 47.5#
141 0.0 11.4 17.0#



#16
Acetone
Concen: 1.29 ug/l
RT: 3.82 min Scan# 695
Delta R.T. 0.01 min
Lab File: VN050963.D
Acq: 30 Aug 2018 15:26

Tgt Ion: 43 Resp: 13901
Ion Ratio Lower Upper
43 100
58 27.7 27.2 40.8

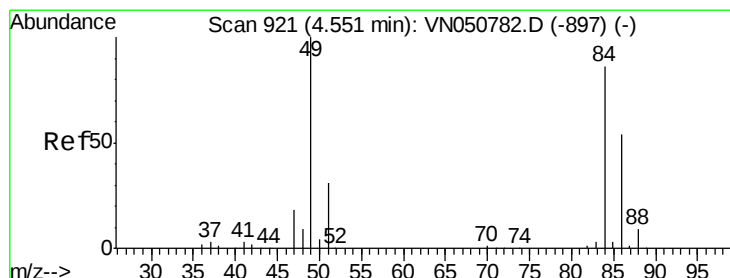
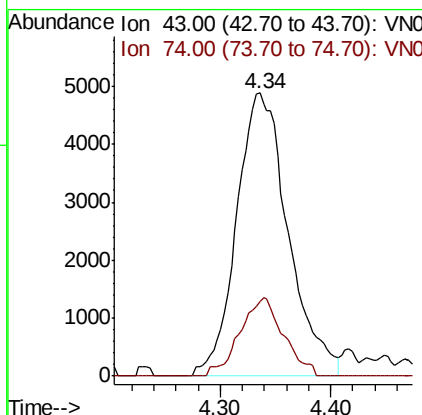
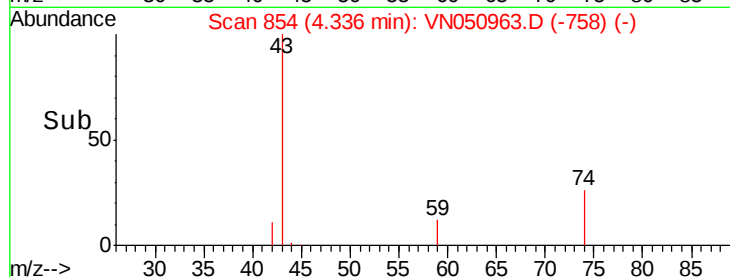
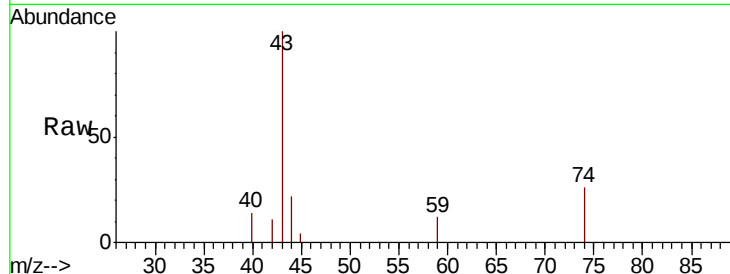




#18
Methvl Acetate
Concen: 2.38 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050963.D
Acq: 30 Aug 2018 15:26

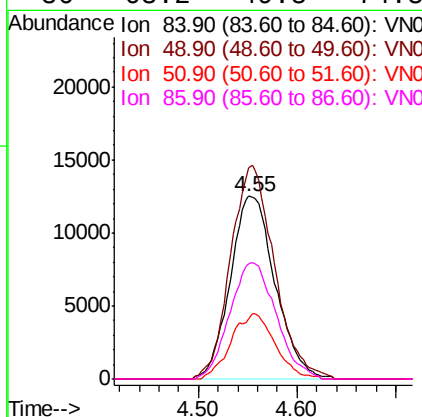
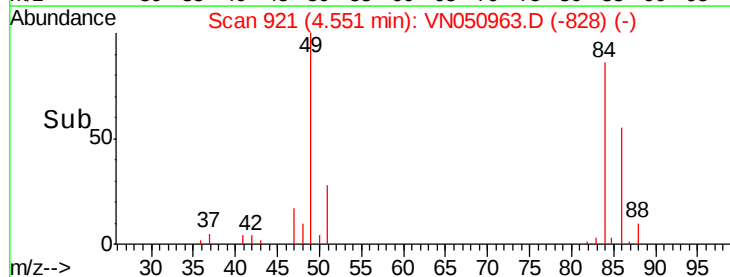
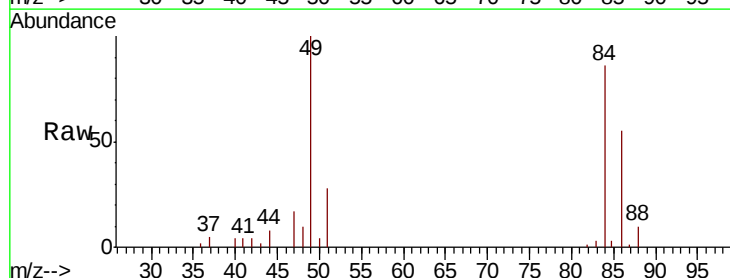
Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#07

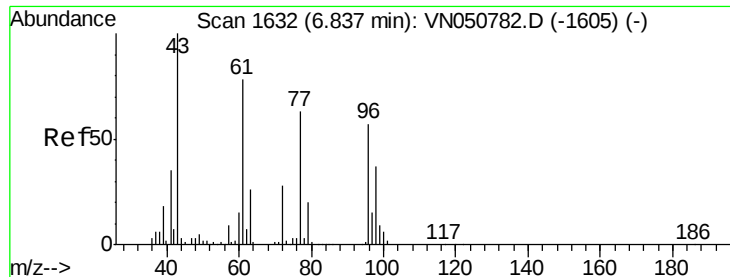
Tot Ion: 43 Resp: 15846
Ion Ratio Lower Upper
43 100
74 23.5 19.8 29.8



#20
Methylene Chloride
Concen: 4.99 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN050963.D
Acq: 30 Aug 2018 15:26

Tgt Ion: 84 Resp: 39669
Ion Ratio Lower Upper
84 100
49 115.6 93.2 139.8
51 32.9 29.0 43.6
86 63.2 49.8 74.8

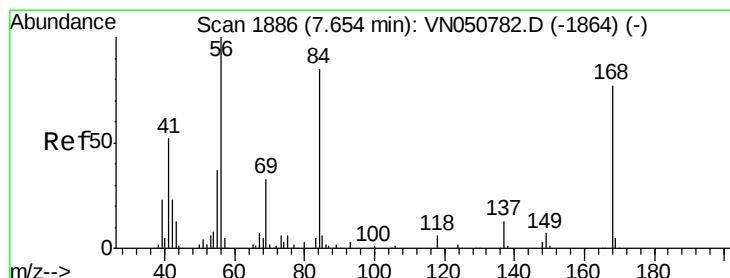
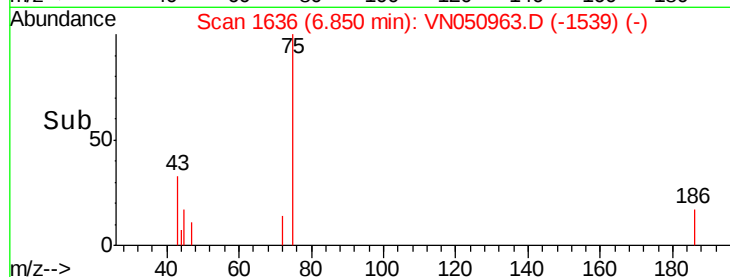
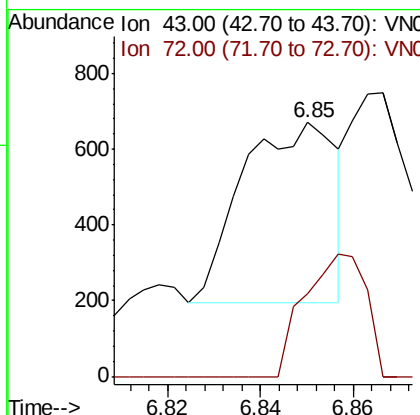
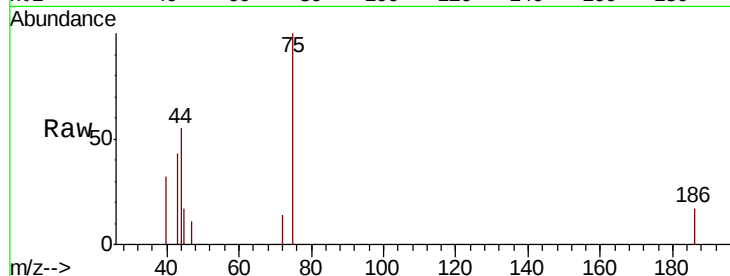




#25
2-Butanone
Concen: 0.23 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050963.D
Acq: 30 Aug 2018 15:26

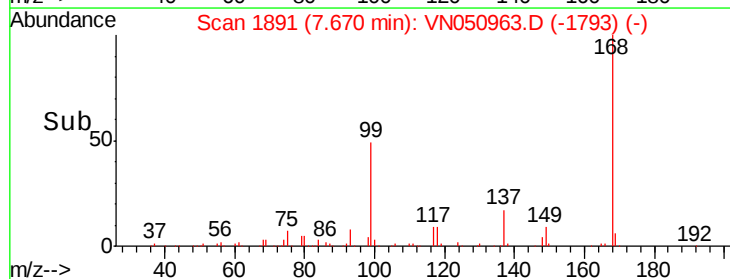
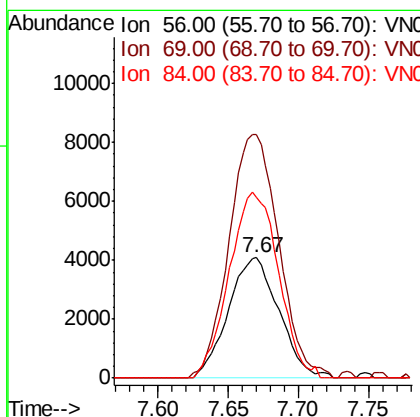
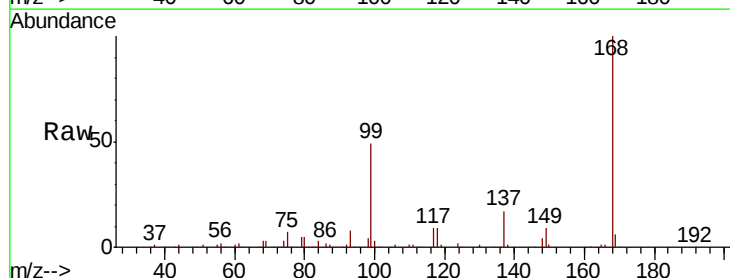
Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#07

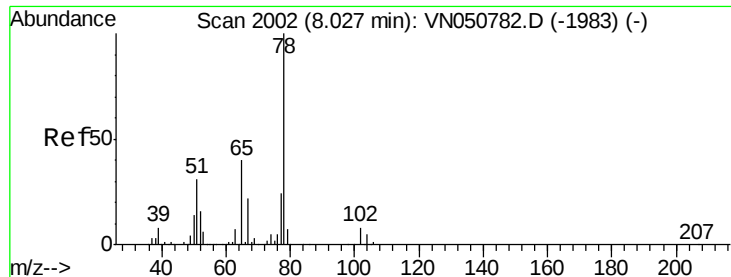
Tot Ion: 43 Resp: 666
Ion Ratio Lower Upper
43 100
72 45.9 22.3 33.5#



#31
Cyclohexane
Concen: 1.31 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN050963.D
Acq: 30 Aug 2018 15:26

Tgt Ion: 56 Resp: 10284
Ion Ratio Lower Upper
56 100
69 201.9 26.2 39.4#
84 150.6 68.3 102.5#





#33

1,2-Dichloroethane-d4

Concen: 56.06 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050963.D

Acq: 30 Aug 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

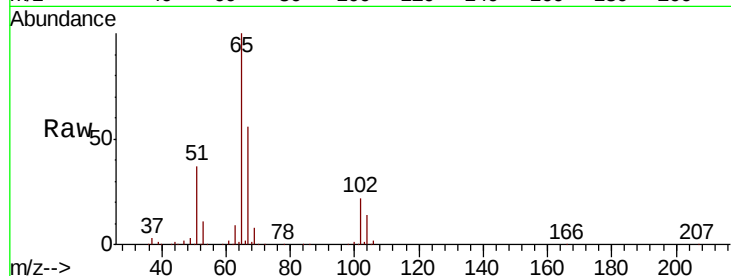
PB112481ZHE#07

Tot Ion: 65 Resp: 395598

Ion Ratio Lower Upper

65 100

67 54.2 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN050782.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN050782.D (-1983) (-)

8.03

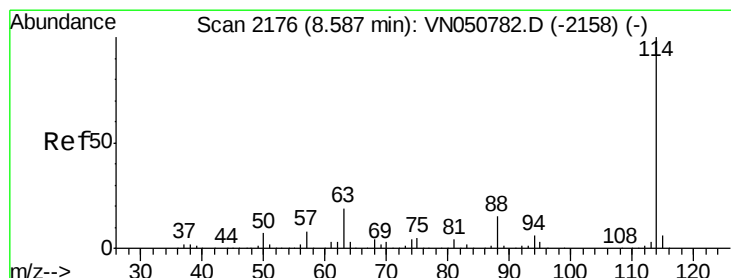
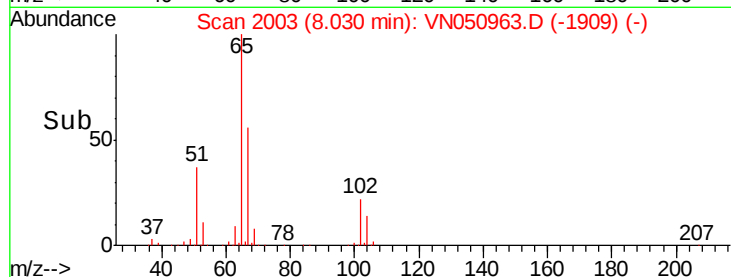
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN050963.D

Acq: 30 Aug 2018 15:26

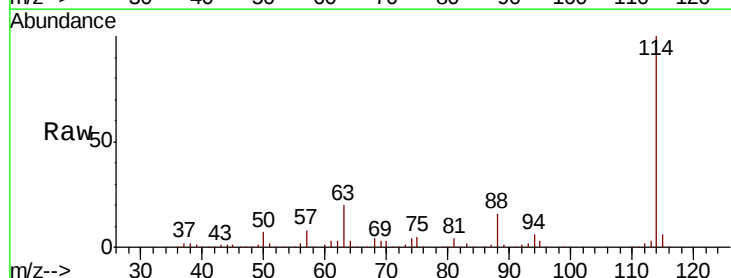
Tgt Ion: 114 Resp: 982118

Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.6

88 15.9 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): VN050782.D (-2158) (-)

Ion 63.00 (62.70 to 63.70): VN050782.D (-2158) (-)

Ion 87.90 (87.60 to 88.60): VN050782.D (-2158) (-)

8.59

600000

500000

400000

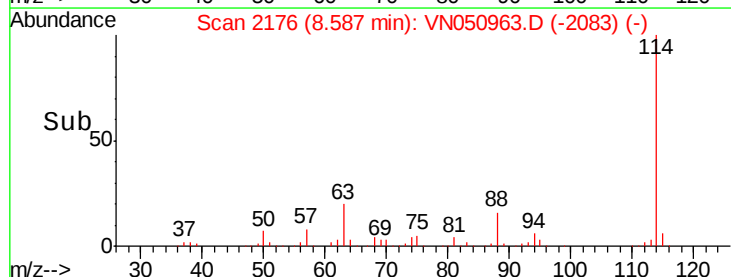
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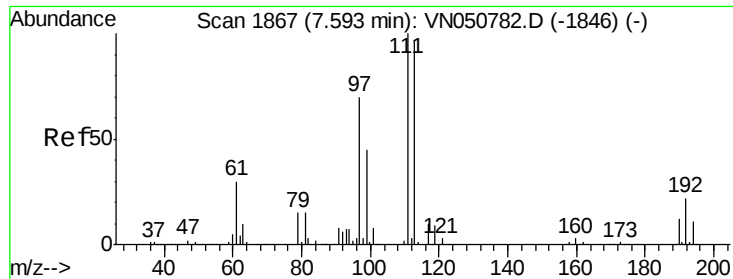
200000

100000

0

Time-->

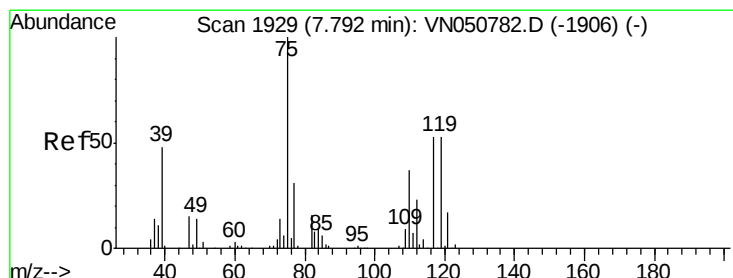
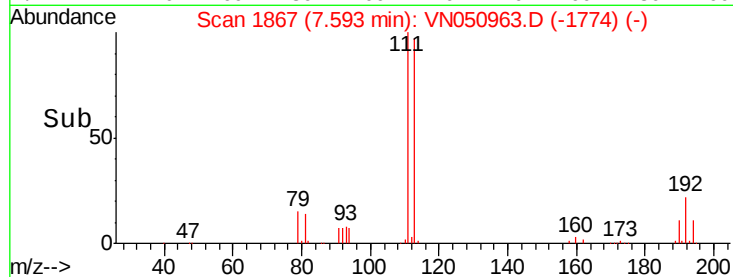
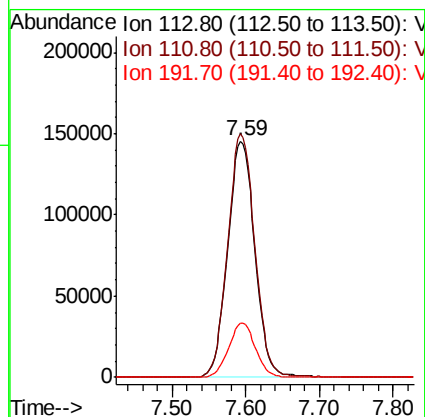
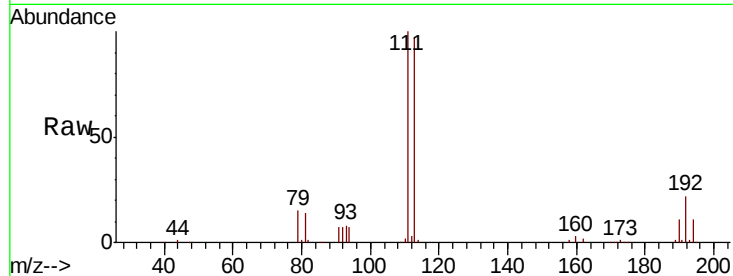




#35
Dibromofluoromethane
Concen: 47.71 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN050963.D
Acq: 30 Aug 2018 15:26

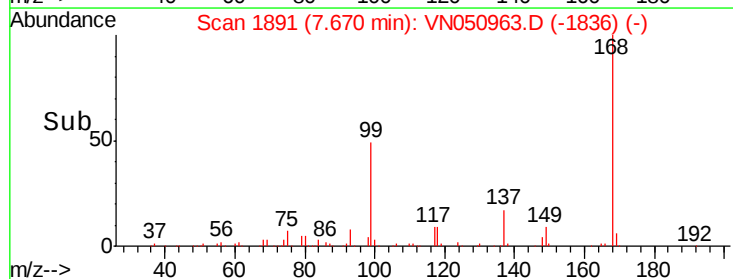
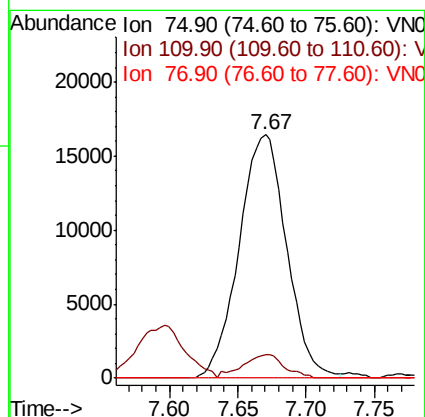
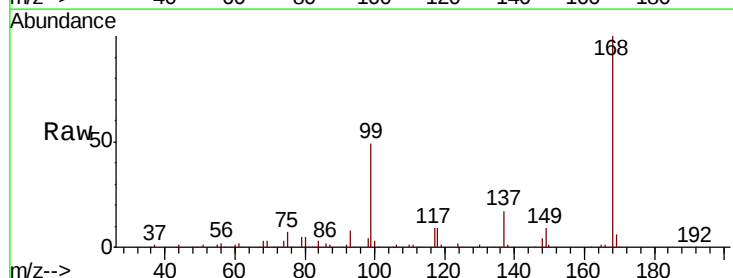
Instrument :
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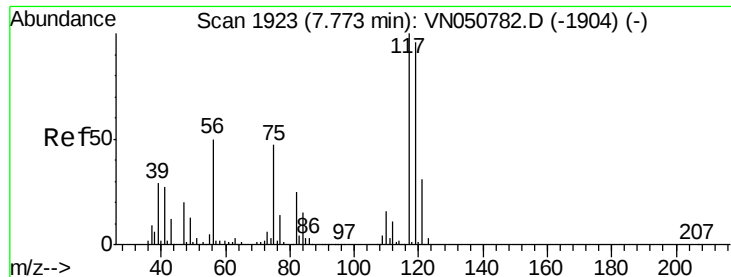
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.6	123.8
192	22.7	18.0	27.0



#36
1,1-Dichloropropene
Concen: 3.43 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.12 min
Lab File: VN050963.D
Acq: 30 Aug 2018 15:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.1	54.4#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 4.34 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.10 min

Lab File: VN050963.D

Acq: 30 Aug 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#07

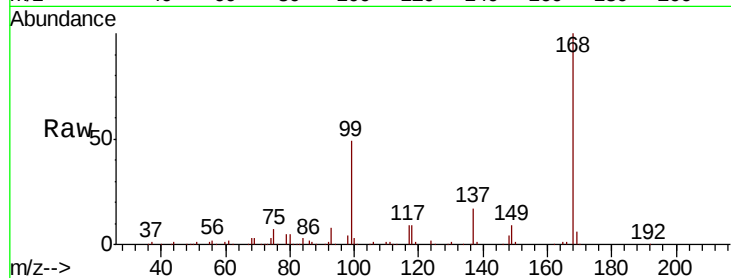
Tot Ion:117 Resp: 50811

Ion Ratio Lower Upper

117 100

119 6.3 76.3 114.5#

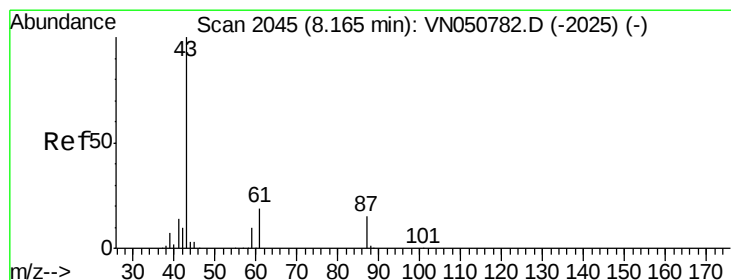
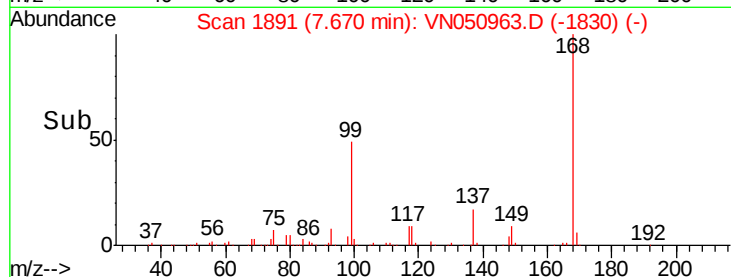
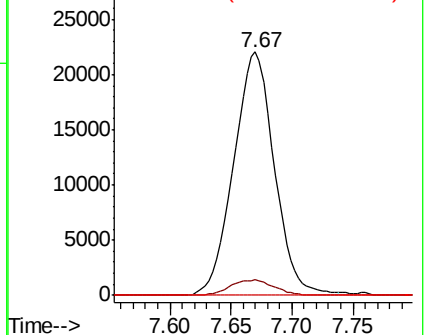
121 0.0 24.6 36.8#



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: 34.92 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.01 min

Lab File: VN050963.D

Acq: 30 Aug 2018 15:26

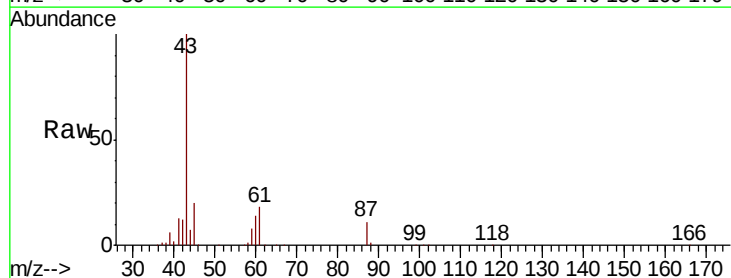
Tgt Ion: 43 Resp: 399739

Ion Ratio Lower Upper

43 100

61 15.1 17.5 26.3#

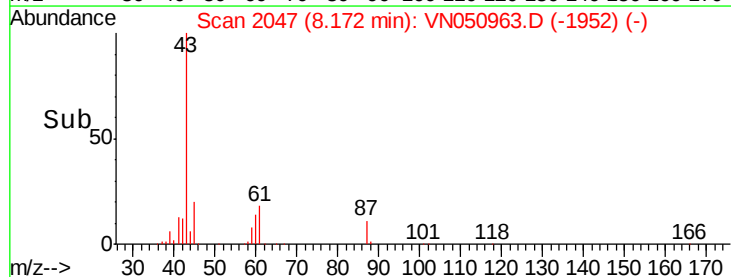
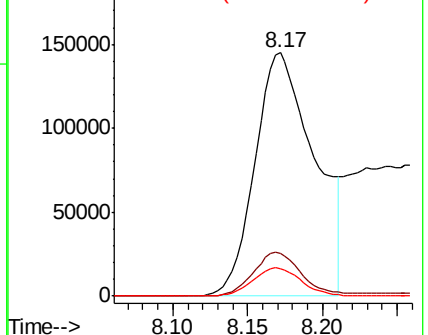
87 9.6 11.3 16.9#

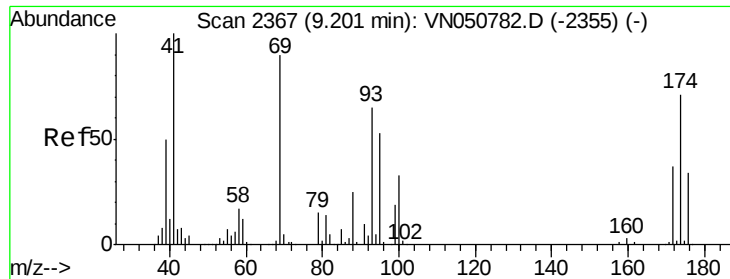


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

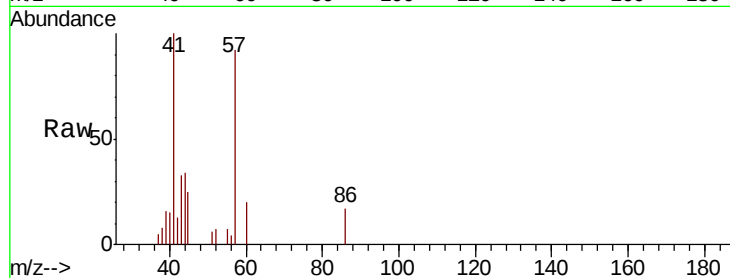




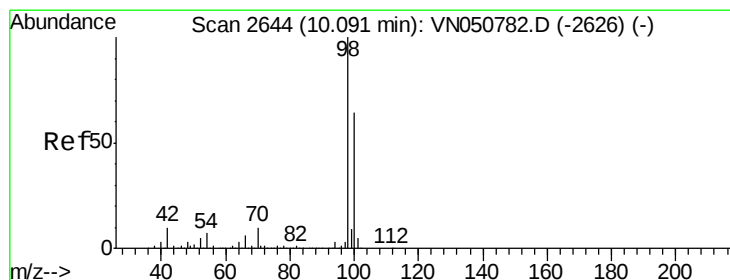
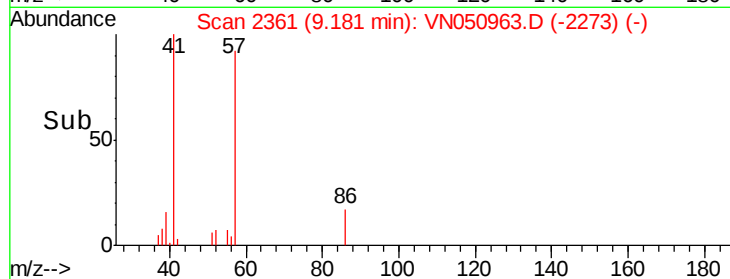
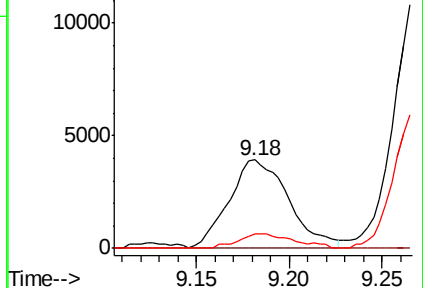
#48
Methyl methacrylate
Concen: 1.51 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050963.D
Acq: 30 Aug 2018 15:26

Instrument :
MSVOA_N
ClientSampleId :
PB112481ZHE#07

Tot Ion: 41 Resp: 8831
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 15.3 42.2 63.2#

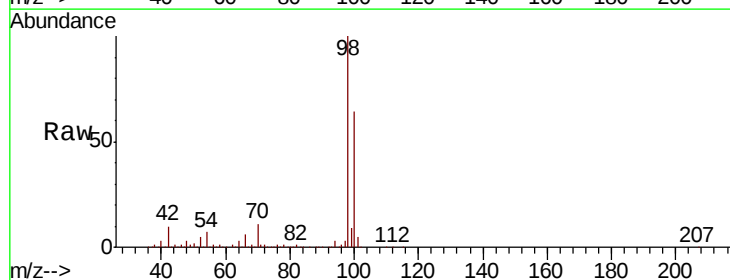


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

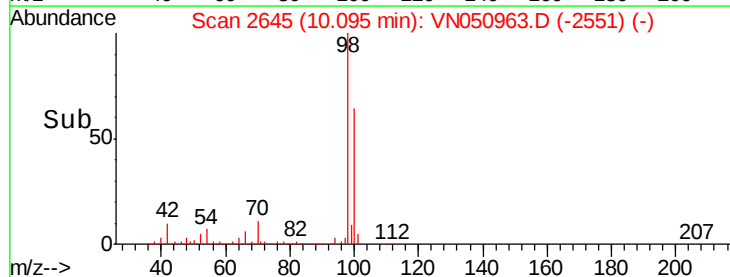
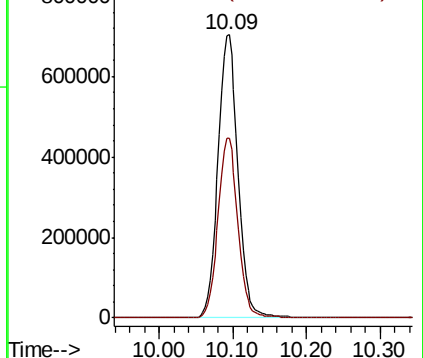


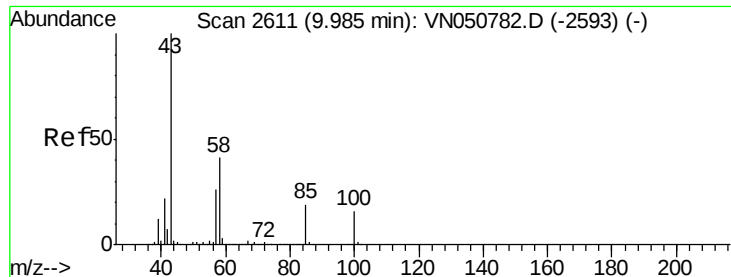
#50
Toluene-d8
Concen: 45.34 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050963.D
Acq: 30 Aug 2018 15:26

Tgt Ion: 98 Resp: 1324380
Ion Ratio Lower Upper
98 100
100 63.3 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

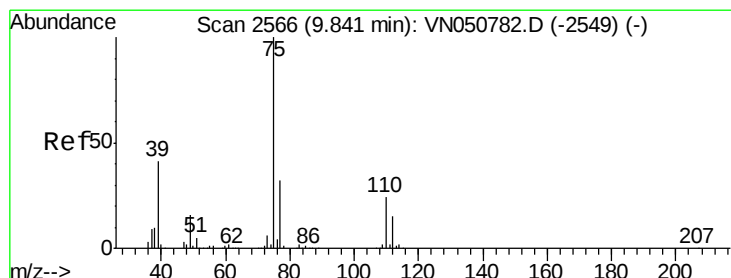
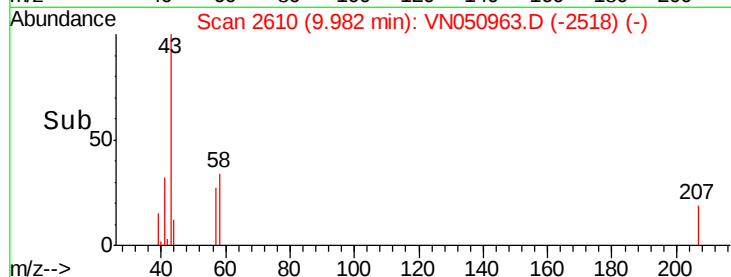
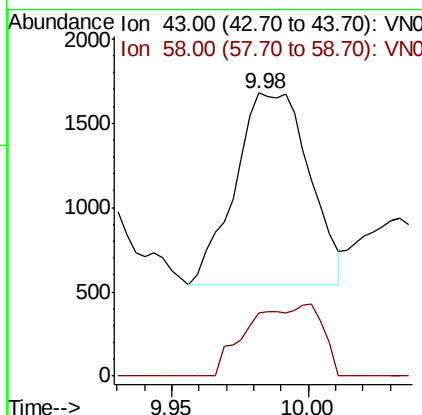
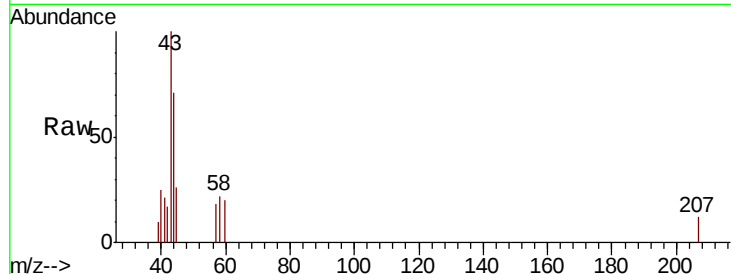




#51
 4-Methyl-2-Pentanone
 Concen: 0.31 ug/l
 RT: 9.98 min Scan# 2610
 Delta R.T. -0.00 min
 Lab File: VN050963.D
 Acq: 30 Aug 2018 15:26

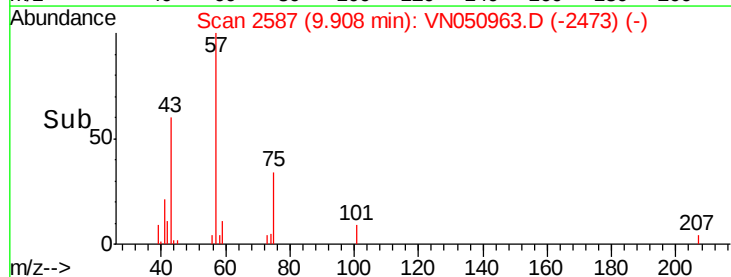
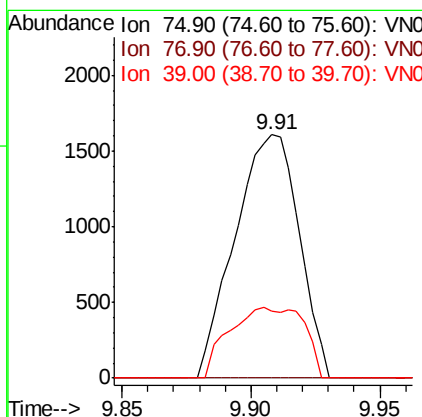
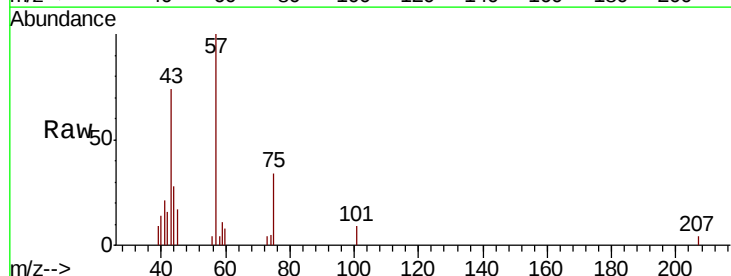
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112481ZHE#07

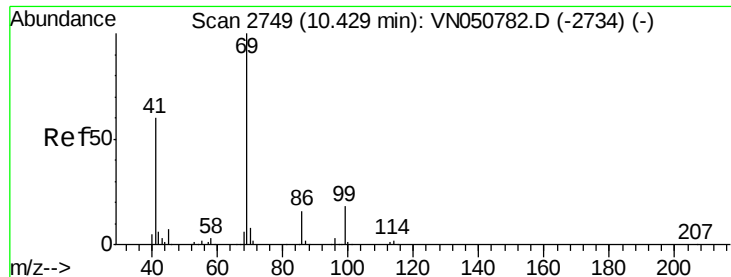
Tot Ion: 43 Resp: 2137
 Ion Ratio Lower Upper
 43 100
 58 37.7 32.4 48.6



#54
 cis-1,3-Dichloropropene
 Concen: 0.22 ug/l
 RT: 9.91 min Scan# 2587
 Delta R.T. 0.07 min
 Lab File: VN050963.D
 Acq: 30 Aug 2018 15:26

Tgt Ion: 75 Resp: 2787
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 27.6 33.0 49.4#





#56

Ethyl methacrylate

Concen: 2.57 ug/l

RT: 10.23 min Scan# 2688

Delta R.T. -0.20 min

Lab File: VN050963.D

Acq: 30 Aug 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#07

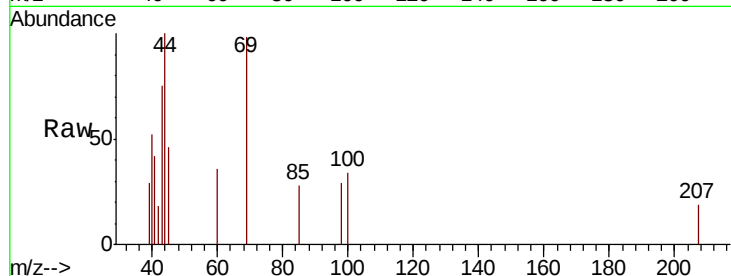
Tot Ion: 69 Resp: 2347

Ion Ratio Lower Upper

69 100

41 60.7 48.3 72.5

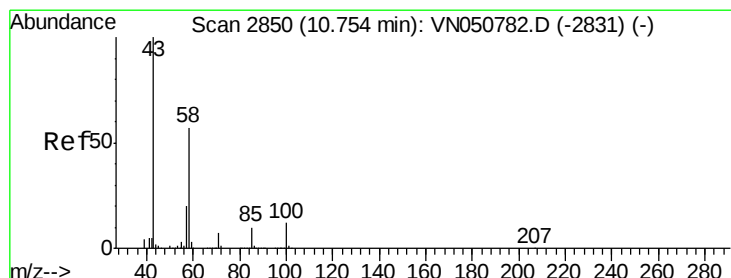
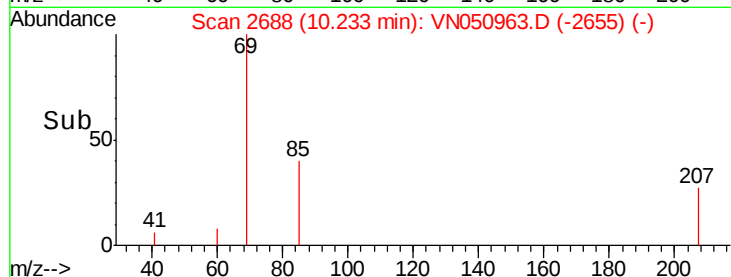
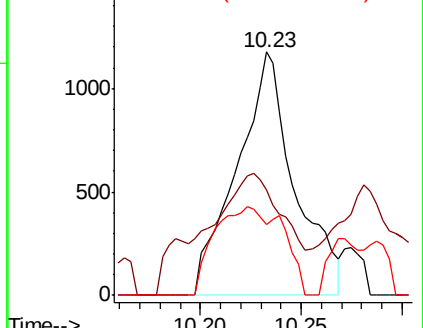
39 31.5 24.0 36.0



Abundance Ion 69.00 (68.70 to 69.70): VN050963.D (-2655) (-)

Ion 41.00 (40.70 to 41.70): VN050963.D (-2655) (-)

Ion 39.00 (38.70 to 39.70): VN050963.D (-2655) (-)



#59

2-Hexanone

Concen: 4.11 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050963.D

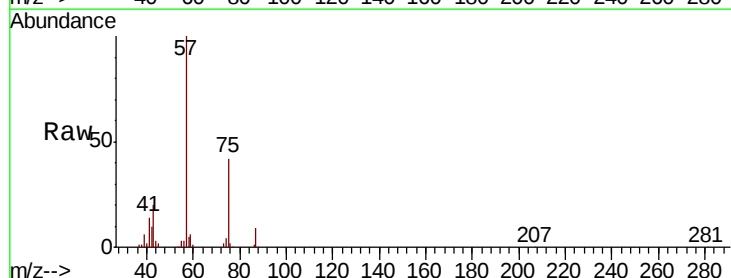
Acq: 30 Aug 2018 15:26

Tgt Ion: 43 Resp: 18681

Ion Ratio Lower Upper

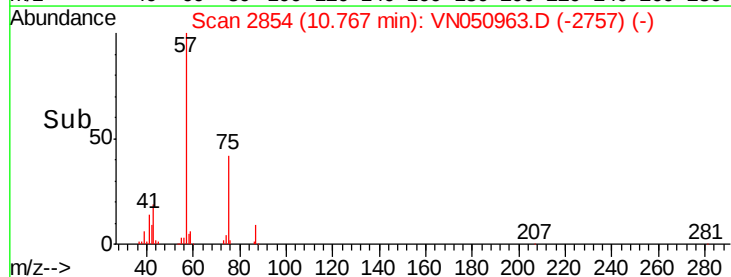
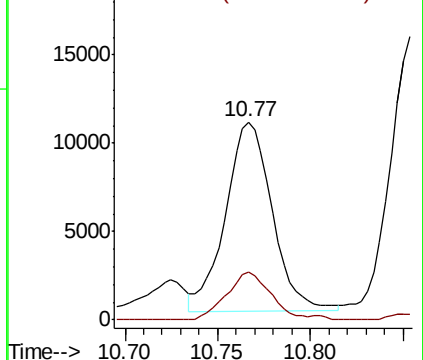
43 100

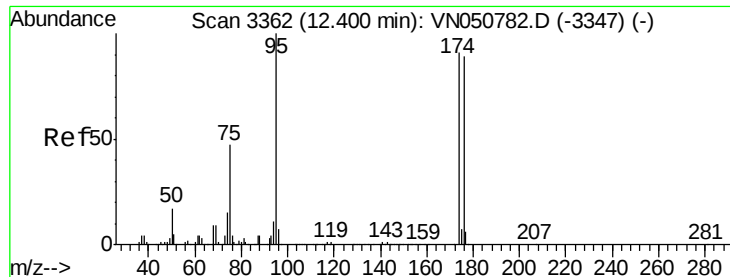
58 23.9 28.3 85.0#



Abundance Ion 43.00 (42.70 to 43.70): VN050963.D (-2757) (-)

Ion 58.00 (57.70 to 58.70): VN050963.D (-2757) (-)





#62

4-Bromofluorobenzene

Concen: 36.98 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050963.D

Acq: 30 Aug 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#07

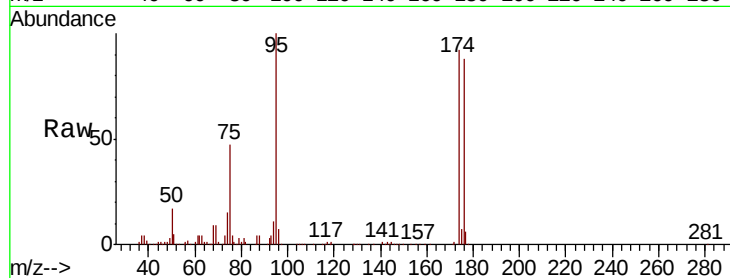
Tot Ion: 95 Resp: 358948

Ion Ratio Lower Upper

95 100

174 92.9 0.0 183.0

176 89.4 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VN050782.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN050782.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN050782.D (-3347) (-)

12.40

250000

200000

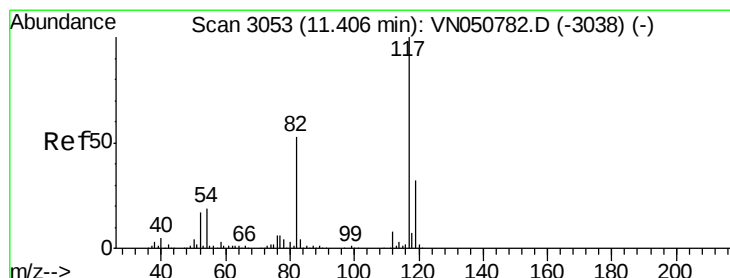
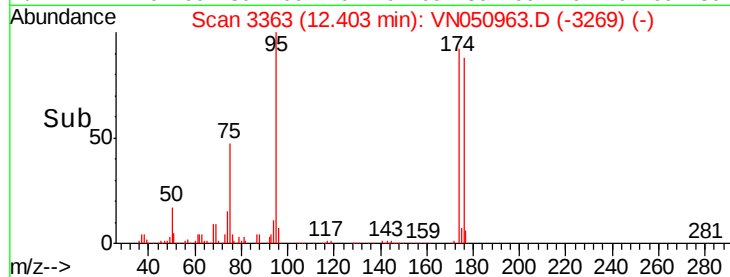
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050963.D

Acq: 30 Aug 2018 15:26

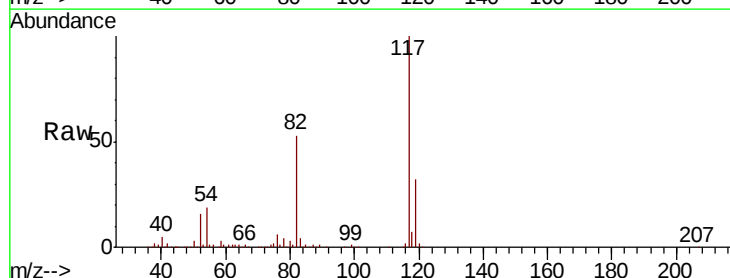
Tgt Ion: 117 Resp: 833899

Ion Ratio Lower Upper

117 100

82 53.2 42.6 64.0

119 32.5 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN050782.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050782.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050782.D (-3038) (-)

11.41

600000

500000

400000

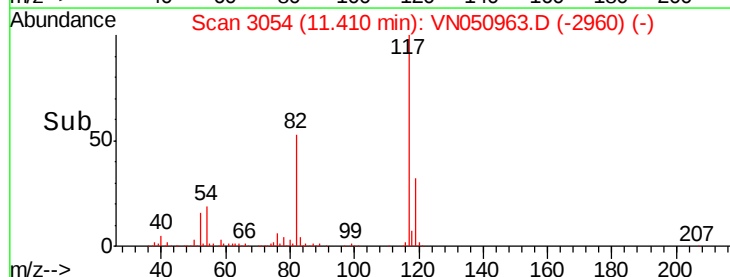
300000

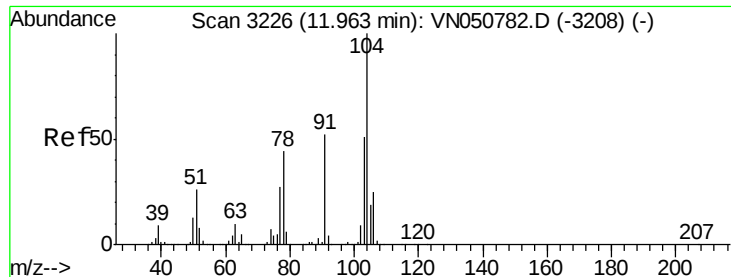
200000

100000

0

Time--> 11.30 11.40 11.50





#70

Stvrene

Concen: 1.28 ug/l

RT: 11.97 min Scan# 3229

Delta R.T. 0.01 min

Lab File: VN050963.D

Acq: 30 Aug 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#07

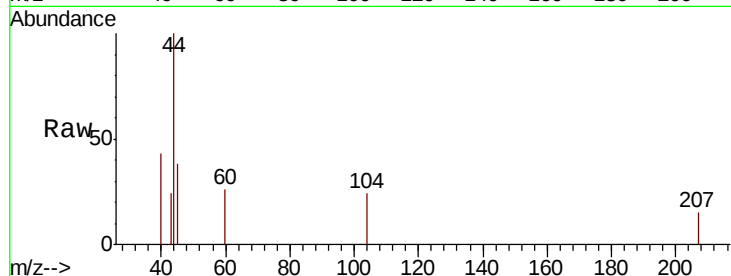
Tot Ion:104 Resp: 236

Ion Ratio Lower Upper

104 100

78 0.0 38.2 57.4#

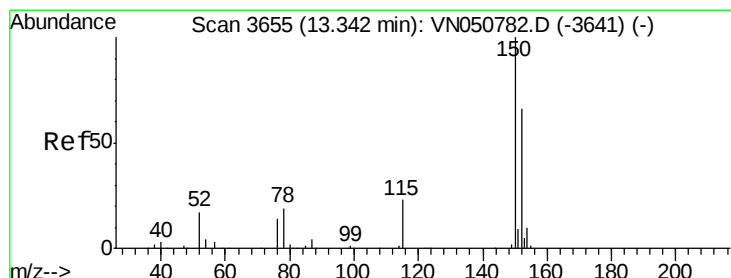
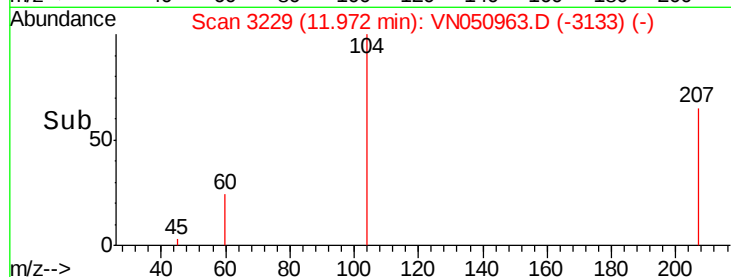
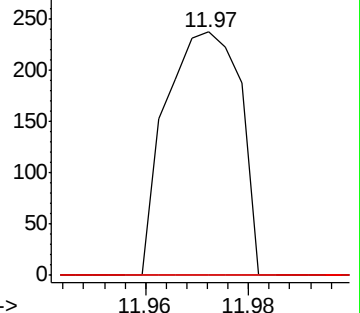
103 0.0 44.4 66.6#



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: VN050963.D

Acq: 30 Aug 2018 15:26

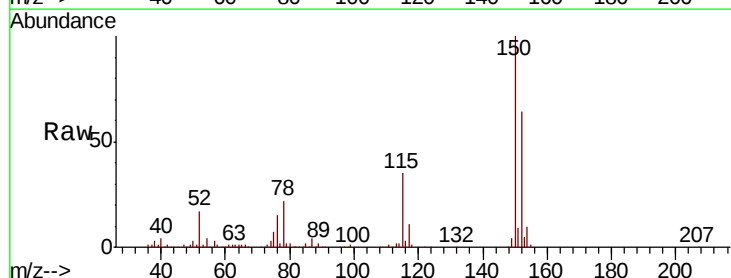
Tgt Ion:152 Resp: 289644

Ion Ratio Lower Upper

152 100

115 55.4 27.8 83.4

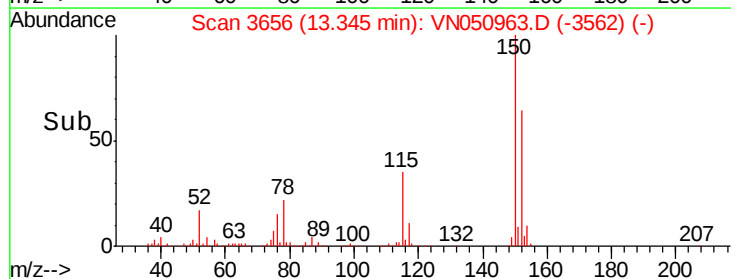
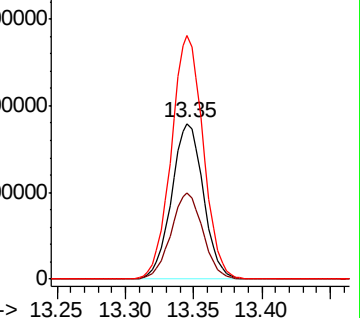
150 157.1 0.0 351.4

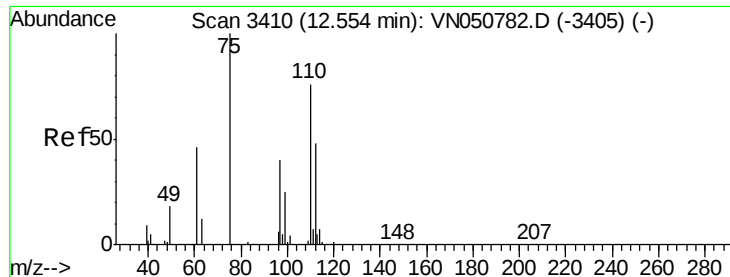


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 33.37 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050963.D

Acq: 30 Aug 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

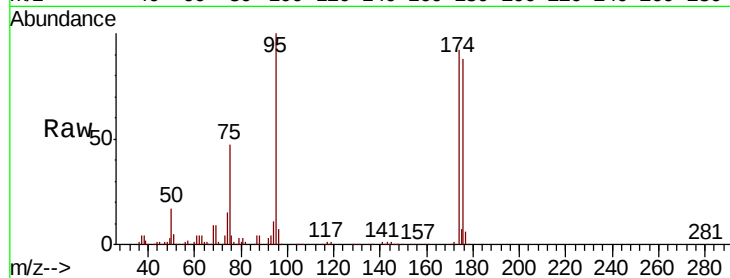
PB112481ZHE#07

Tot Ion: 75 Resp: 169291

Ion Ratio Lower Upper

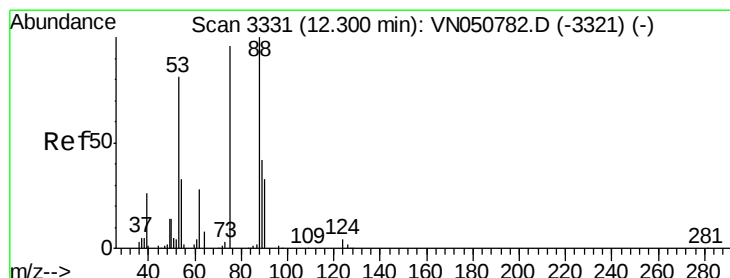
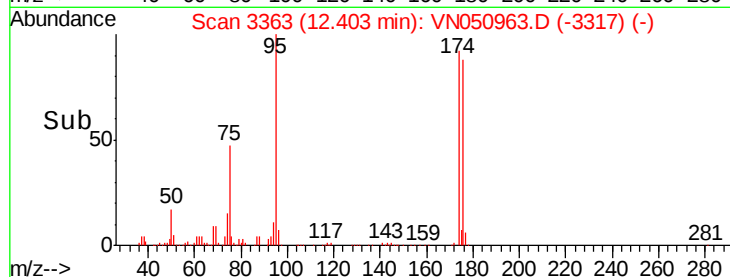
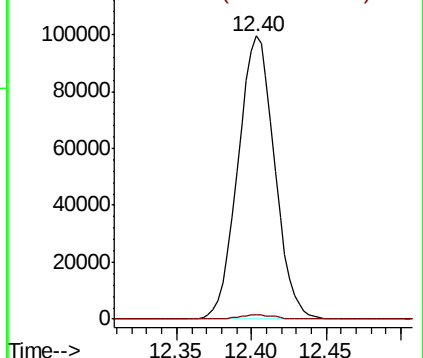
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 112.81 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050963.D

Acq: 30 Aug 2018 15:26

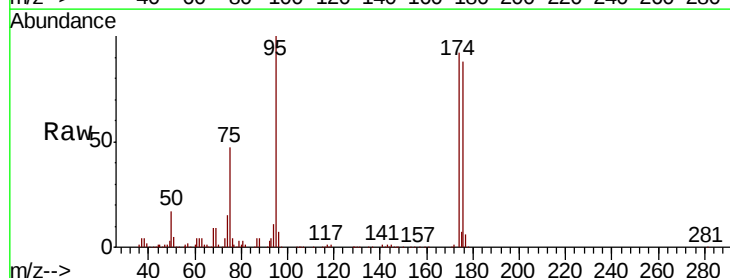
Tgt Ion: 75 Resp: 169291

Ion Ratio Lower Upper

75 100

53 0.2 68.9 103.3#

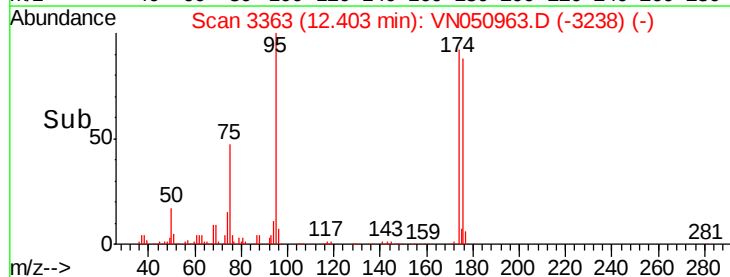
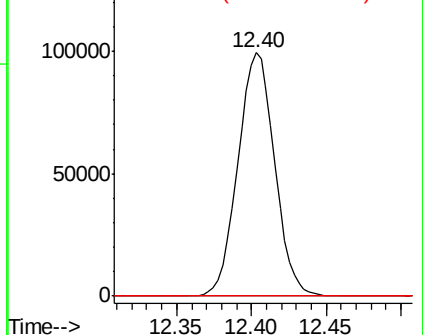
89 0.0 36.1 54.1#

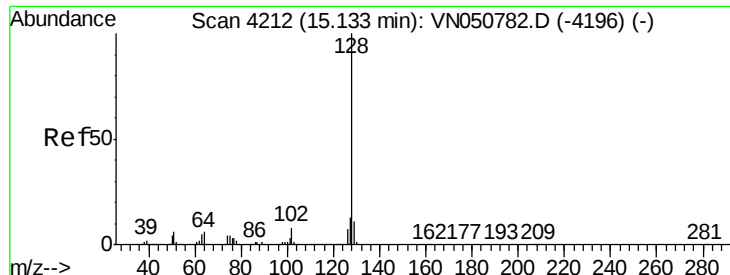


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 5.40 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050963.D

Acq: 30 Aug 2018 15:26

Instrument :

MSVOA_N

ClientSampleId :

PB112481ZHE#07

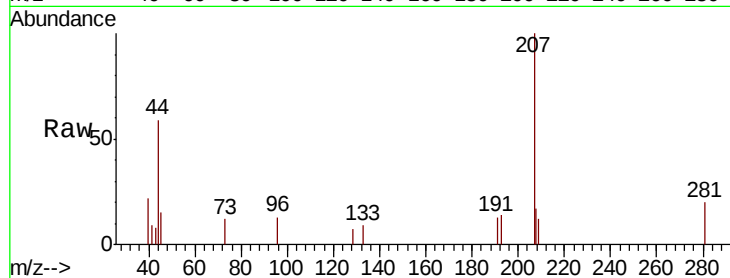
Tot Ion:128 Resp: 29

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

