

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
 Data File : VN050926.D
 Acq On : 28 Aug 2018 20:42
 Operator : MD\SY
 Sample : PB112421ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#04

Quant Time: Aug 29 03:56:01 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	610345	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1003854	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	830876	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	278751	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	401530	54.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.30%	
35) Dibromofluoromethane	7.59	113	381776	47.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.60%	
50) Toluene-d8	10.09	98	1341027	44.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.82%	
62) 4-Bromofluorobenzene	12.40	95	355226	35.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.60%	

Target Compounds

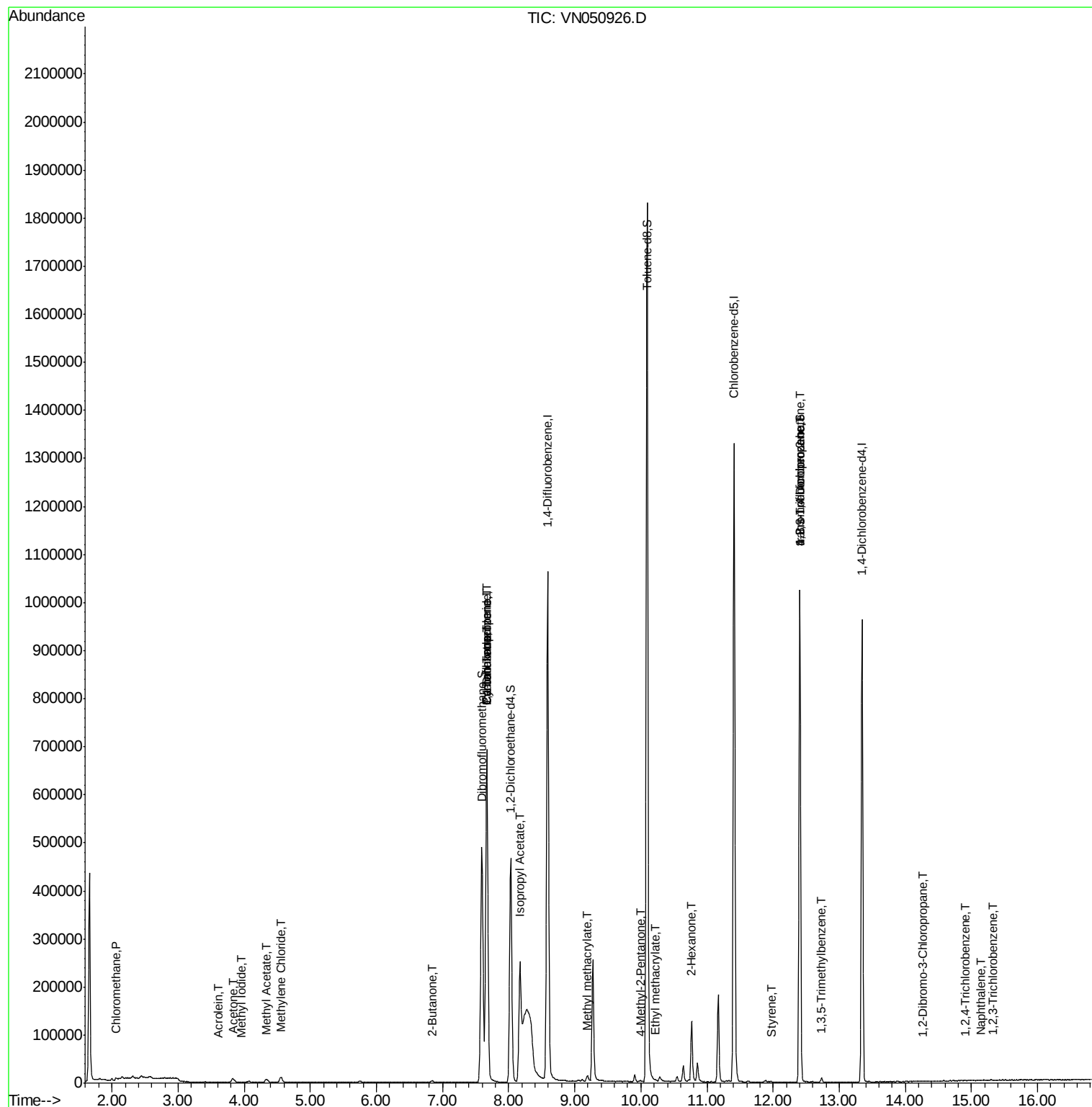
						Qvalue
3) Chloromethane	2.06	50	2469	0.25	ug/l	91
5) Bromomethane	2.57	94	2682	Below	Cal	87
10) Methyl Iodide	3.97	142	939	6.46	ug/l #	64
13) Acrolein	3.60	56	62	18.12	ug/l #	14
16) Acetone	3.83	43	15372	1.82	ug/l	97
18) Methyl Acetate	4.33	43	13532	1.95	ug/l #	71
20) Methylene Chloride	4.55	84	8375	1.01	ug/l	92
25) 2-Butanone	6.86	43	2130	0.72	ug/l #	85
31) Cyclohexane	7.67	56	10819	1.32	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40054	3.38	ug/l #	48
38) Carbon Tetrachloride	7.67	117	54853	4.58	ug/l #	18
43) Isopropyl Acetate	8.17	43	320830	27.42	ug/l	92
48) Methyl methacrylate	9.18	41	7863	1.32	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	1898	0.27	ug/l #	81
56) Ethyl methacrylate	10.23	69	2180	2.55	ug/l #	72
59) 2-Hexanone	10.77	43	17432	3.75	ug/l #	57
70) Styrene	11.97	104	378	1.29	ug/l #	71
76) 1,2,3-Trichloropropane	12.40	75	166367	34.08	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	4328	0.23	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	166367	115.19	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.27	75	217	0.26	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.90	180	160	4.11	ug/l #	83
95) Naphthalene	15.14	128	686	5.45	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.33	180	160	3.33	ug/l #	71

(#) = 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: VN050926.D

Acq: 28 Aug 2018 20:42

Instrument :

MSVOA_N

ClientSampleId :

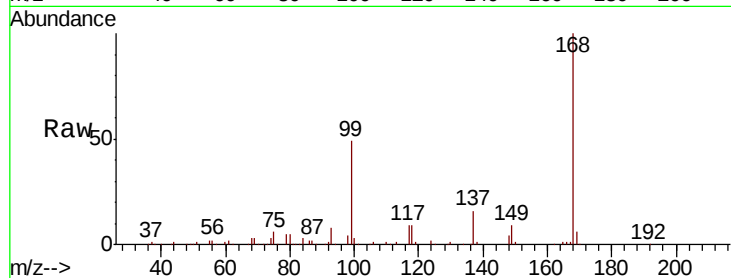
PB112421ZHE#04

Tot Ion:168 Resp: 610345

Ion Ratio Lower Upper

168 100

99 49.2 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

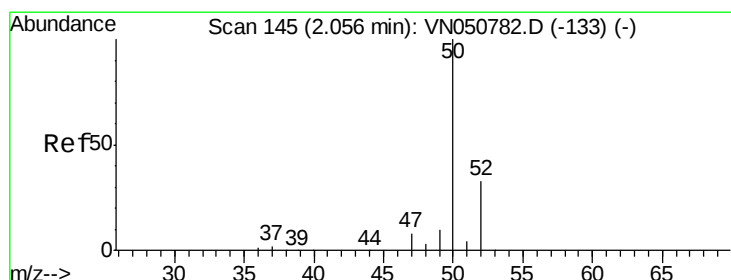
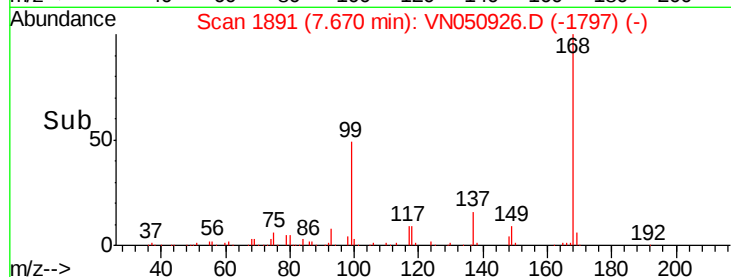
150000

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: VN050926.D

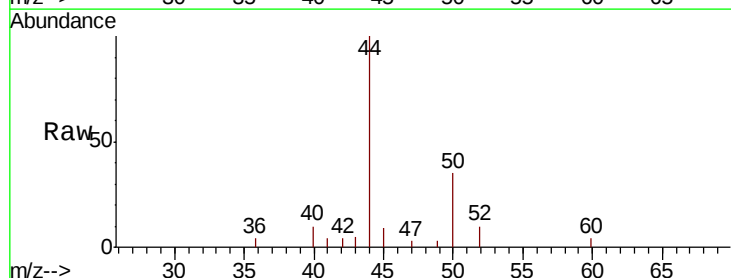
Acq: 28 Aug 2018 20:42

Tgt Ion: 50 Resp: 2469

Ion Ratio Lower Upper

50 100

52 27.5 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

2000

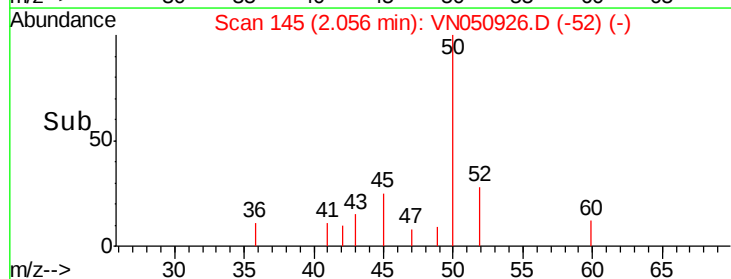
1500

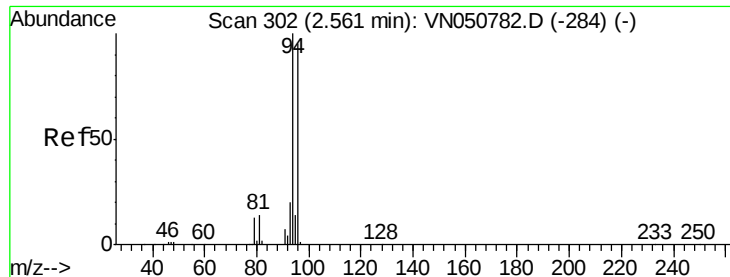
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

Instrument :

MSVOA_N

ClientSampleId :

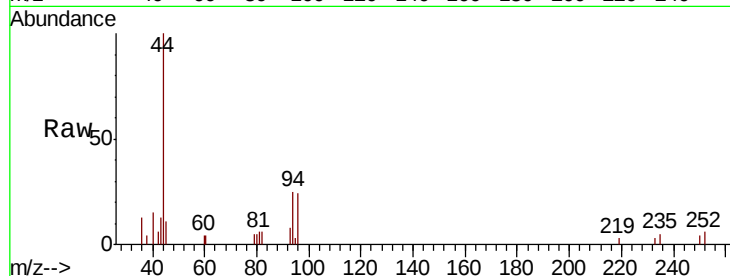
PB112421ZHE#04

Tot Ion: 94 Resp: 2682

Ion Ratio Lower Upper

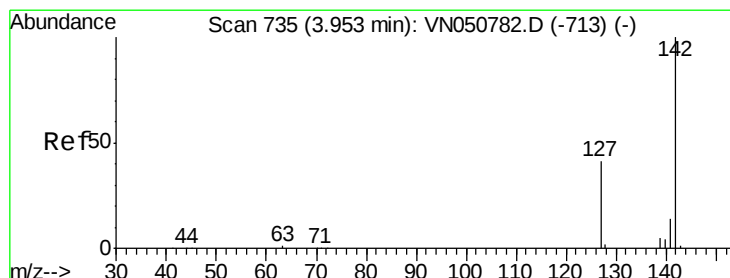
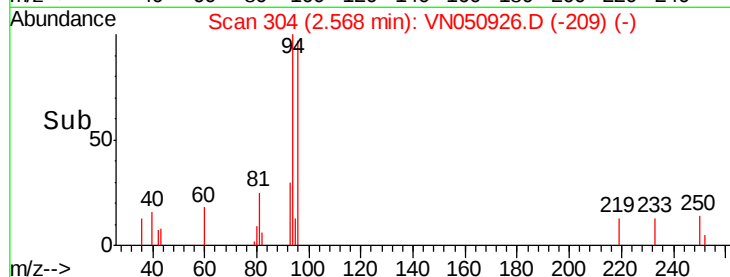
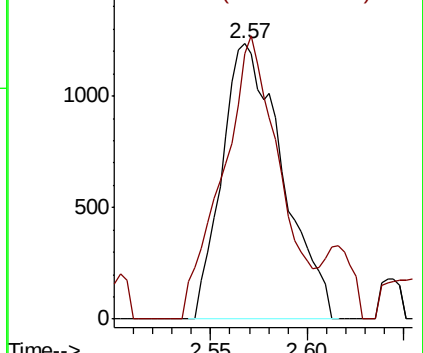
94 100

96 83.0 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050926.D (-209) (-)

Ion 95.90 (95.60 to 96.60): VN050926.D (-209) (-)



#10

Methyl Iodide

Concen: 6.46 ug/l

RT: 3.97 min Scan# 739

Delta R.T. 0.01 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

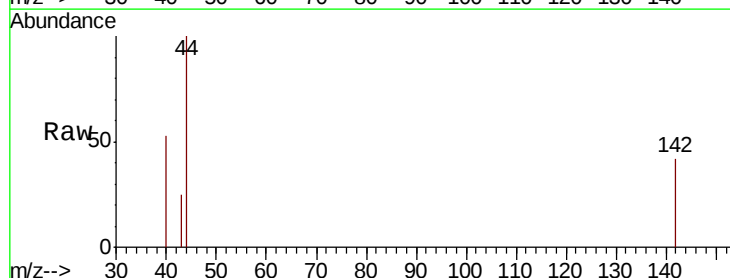
Tgt Ion: 142 Resp: 939

Ion Ratio Lower Upper

142 100

127 17.5 31.7 47.5#

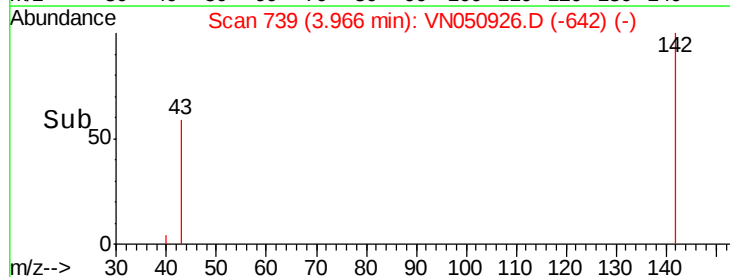
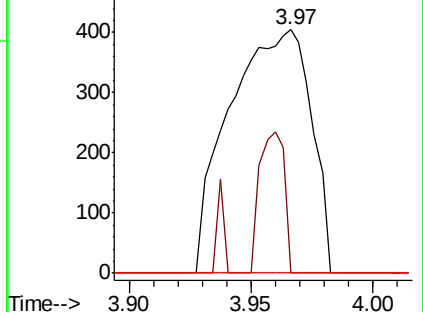
141 0.0 11.4 17.0#

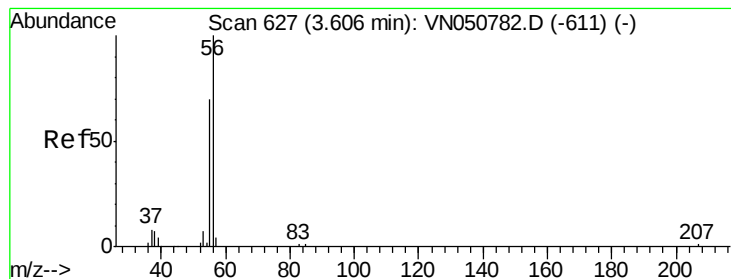


Abundance Ion 141.80 (141.50 to 142.50): VN050926.D (-642) (-)

Ion 126.80 (126.50 to 127.50): VN050926.D (-642) (-)

Ion 140.80 (140.50 to 141.50): VN050926.D (-642) (-)





#13

Acrolein

Concen: 18.12 ug/l

RT: 3.60 min Scan# 626

Delta R.T. -0.00 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

Instrument :

MSVOA_N

ClientSampleId :

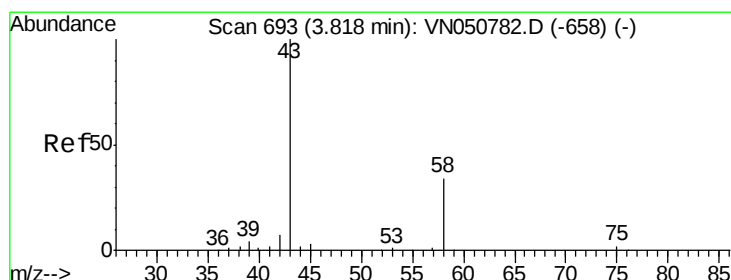
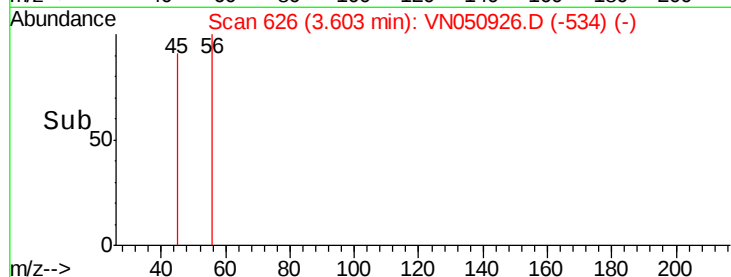
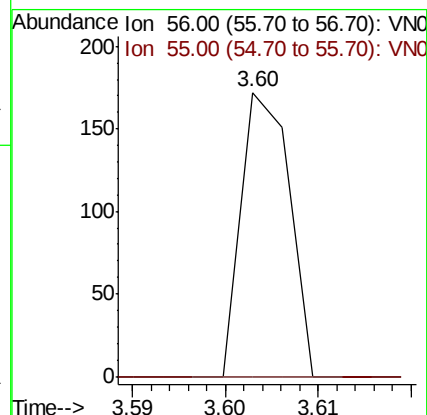
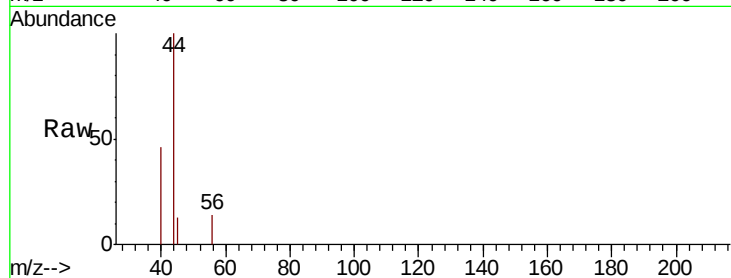
PB112421ZHE#04

Tot Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

55 0.0 57.7 86.5#



#16

Acetone

Concen: 1.82 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050926.D

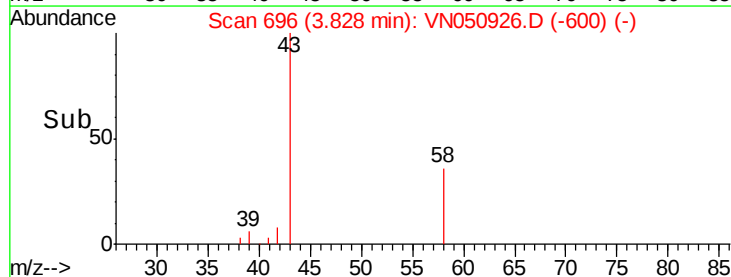
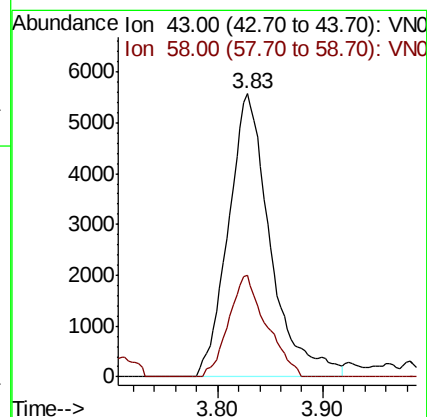
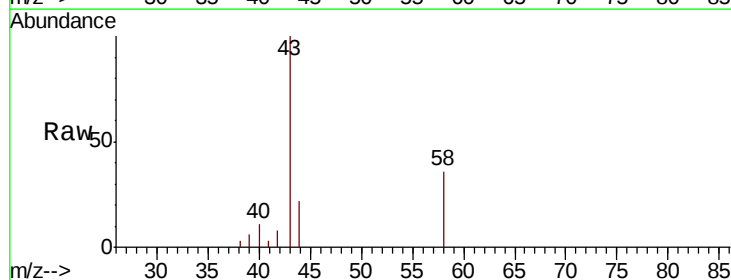
Acq: 28 Aug 2018 20:42

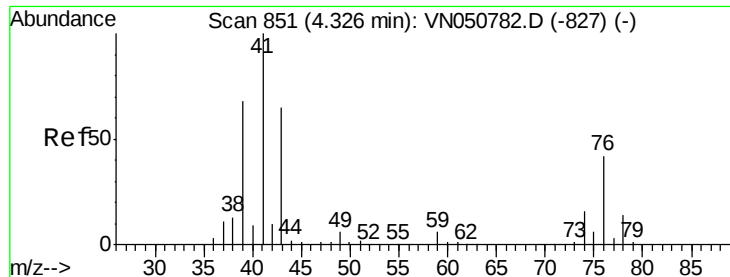
Tgt Ion: 43 Resp: 15372

Ion Ratio Lower Upper

43 100

58 35.7 27.2 40.8





#18

Methvl Acetate

Concen: 1.95 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

Instrument :

MSVOA_N

ClientSampleId :

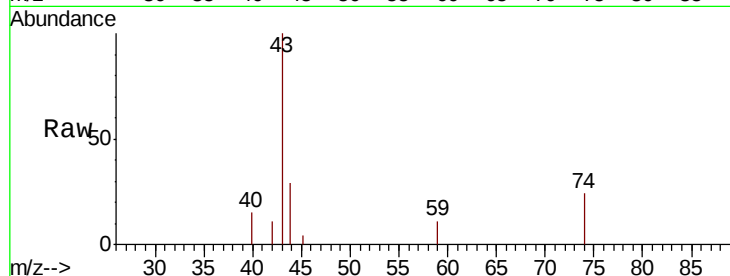
PB112421ZHE#04

Tot Ion: 43 Resp: 13532

Ion Ratio Lower Upper

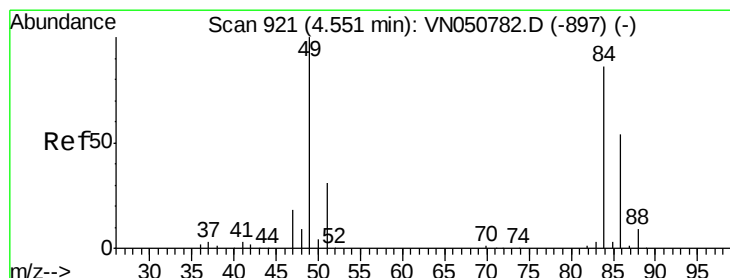
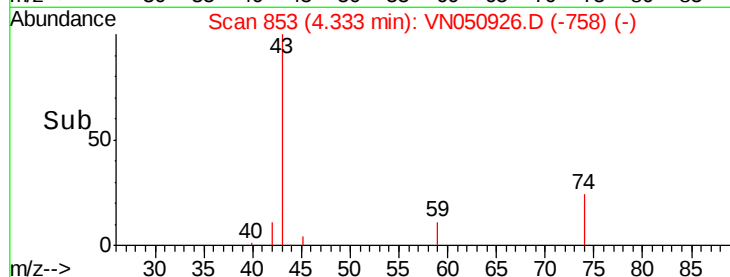
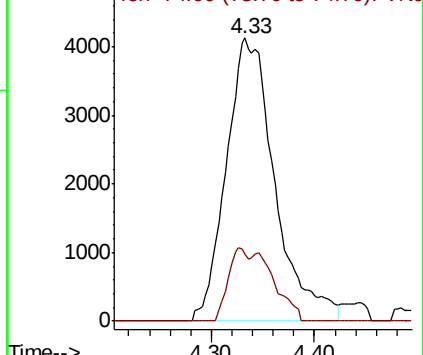
43 100

74 10.5 19.8 29.8#



Abundance Ion 43.00 (42.70 to 43.70): VN050926.D (-758) (-)

Ion 74.00 (73.70 to 74.70): VN050926.D (-758) (-)



#20

Methylene Chloride

Concen: 1.01 ug/l

RT: 4.55 min Scan# 920

Delta R.T. -0.00 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

Tgt Ion: 84 Resp: 8375

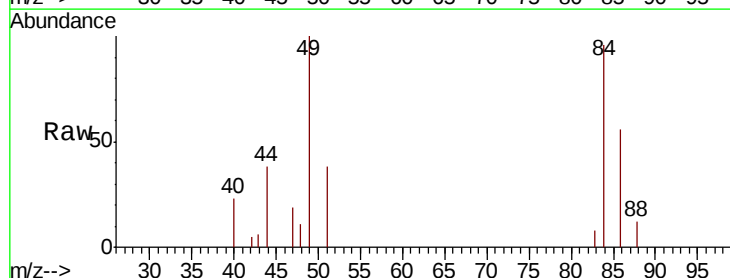
Ion Ratio Lower Upper

84 100

49 104.2 93.2 139.8

51 39.2 29.0 43.6

86 58.9 49.8 74.8

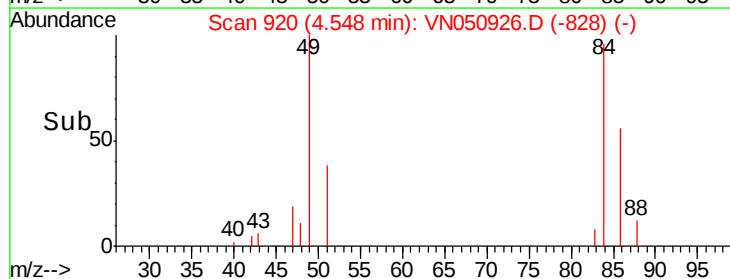
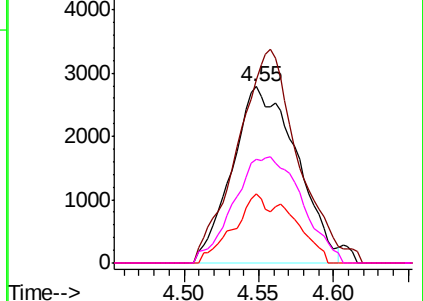


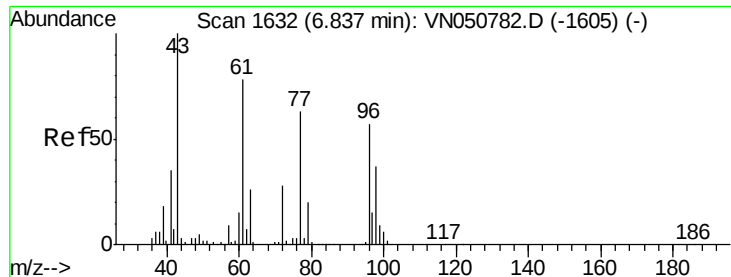
Abundance Ion 83.90 (83.60 to 84.60): VN050926.D (-828) (-)

Ion 48.90 (48.60 to 49.60): VN050926.D (-828) (-)

Ion 50.90 (50.60 to 51.60): VN050926.D (-828) (-)

Ion 85.90 (85.60 to 86.60): VN050926.D (-828) (-)





#25

2-Butanone

Concen: 0.72 ug/l

RT: 6.86 min Scan# 1638

Delta R.T. 0.02 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

Instrument :

MSVOA_N

ClientSampleId :

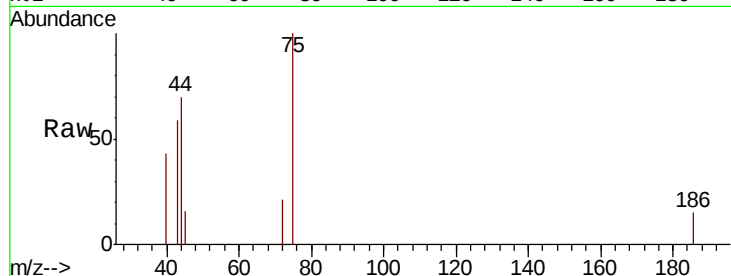
PB112421ZHE#04

Tot Ion: 43 Resp: 2130

Ion Ratio Lower Upper

43 100

72 35.8 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.86

800

600

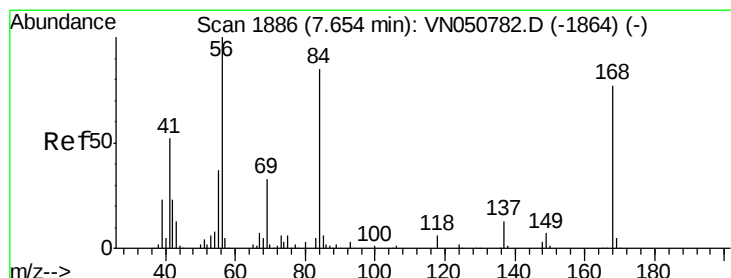
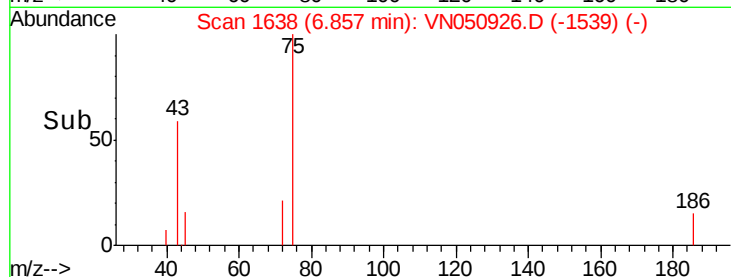
400

200

0

6.80 6.85 6.90

Time-->



#31

Cyclohexane

Concen: 1.32 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

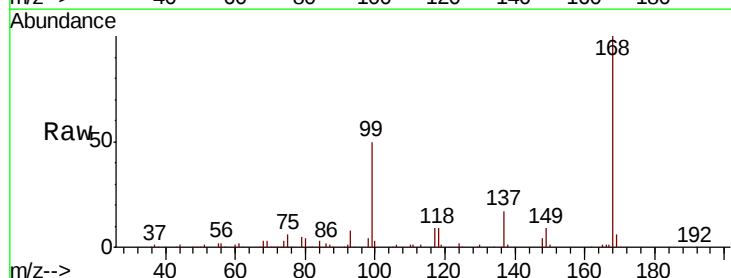
Tgt Ion: 56 Resp: 10819

Ion Ratio Lower Upper

56 100

69 192.6 26.2 39.4#

84 157.5 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

10000

8000

6000

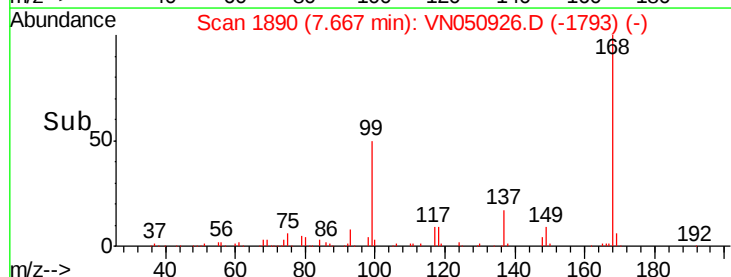
4000

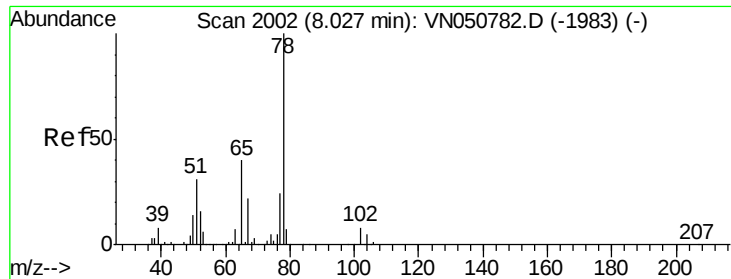
2000

0

7.60 7.65 7.70 7.75

Time-->

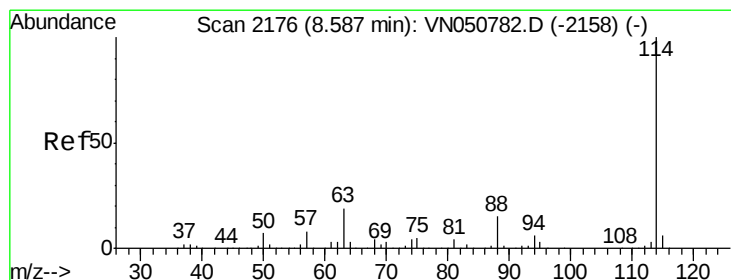
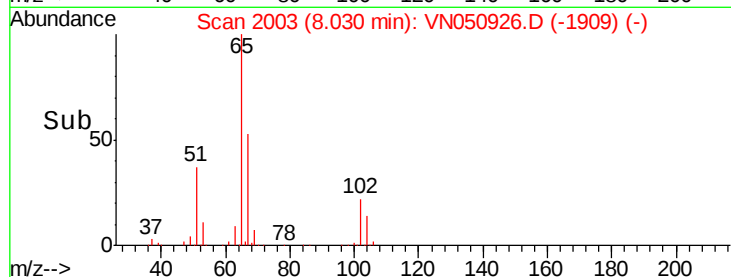
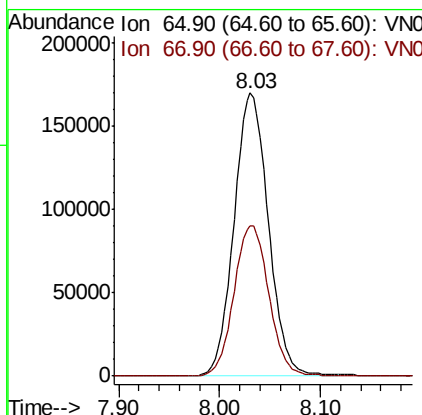
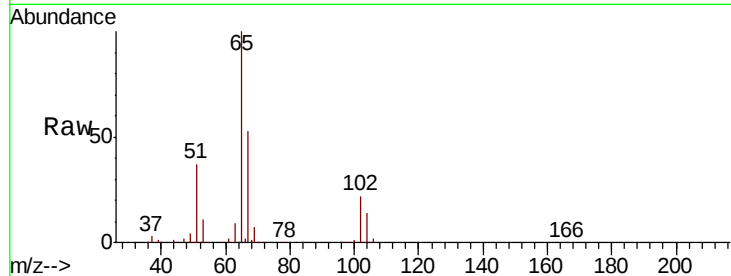




#33
 1,2-Dichloroethane-d4
 Concen: 54.65 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050926.D
 Acq: 28 Aug 2018 20:42

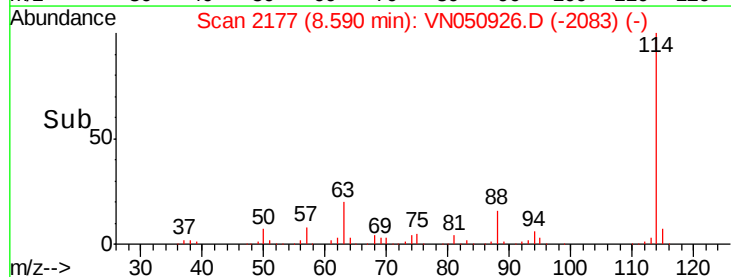
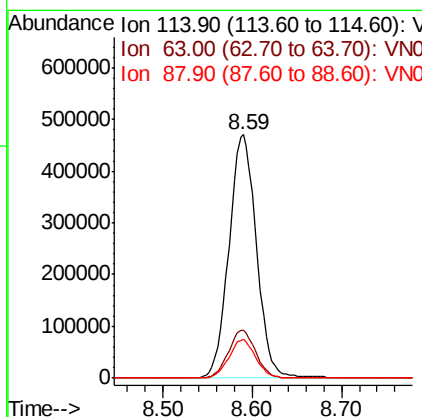
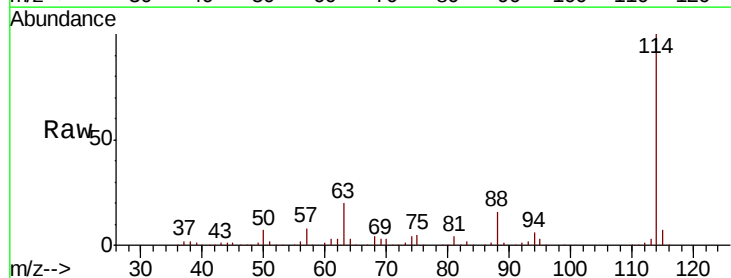
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#04

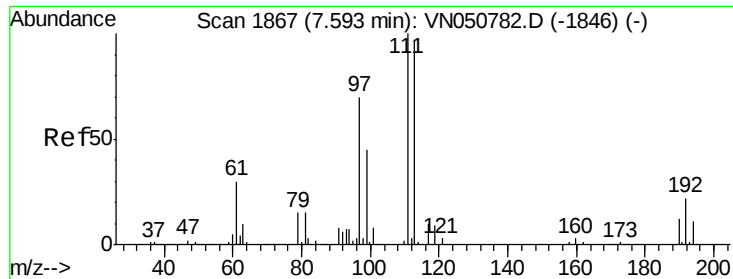
Tot Ion: 65 Resp: 401530
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050926.D
 Acq: 28 Aug 2018 20:42

Tgt Ion: 114 Resp: 1003854
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 38.6
 88 15.8 0.0 30.6

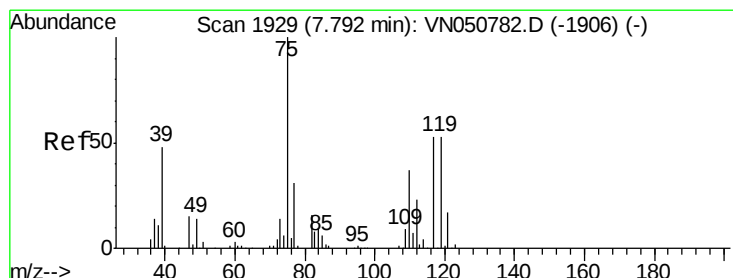
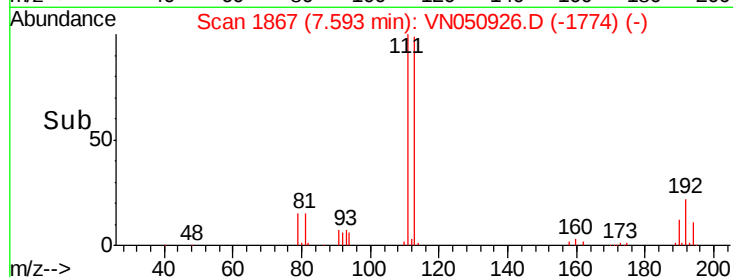
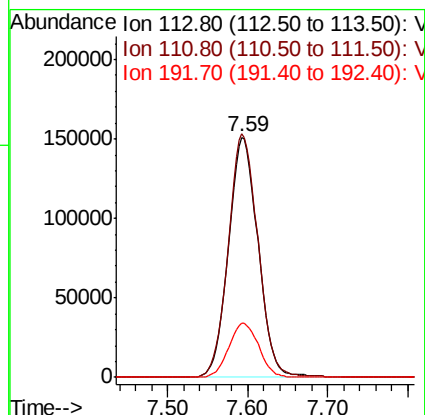
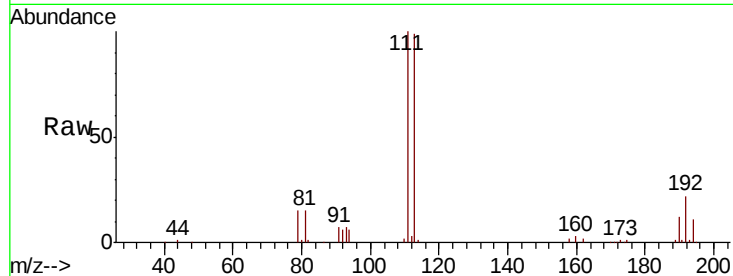




#35
 Dibromofluoromethane
 Concen: 47.80 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050926.D
 Acq: 28 Aug 2018 20:42

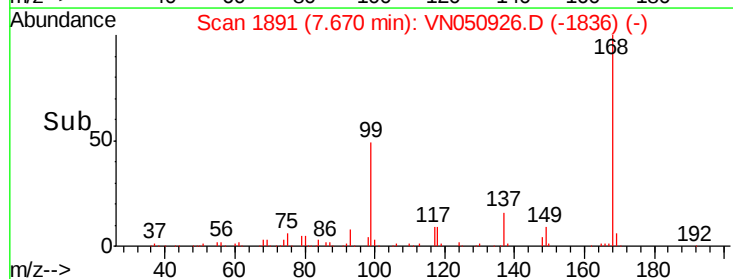
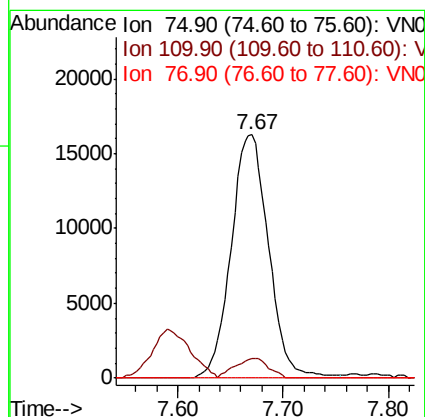
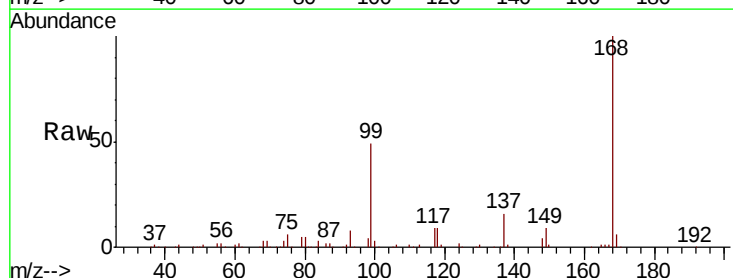
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#04

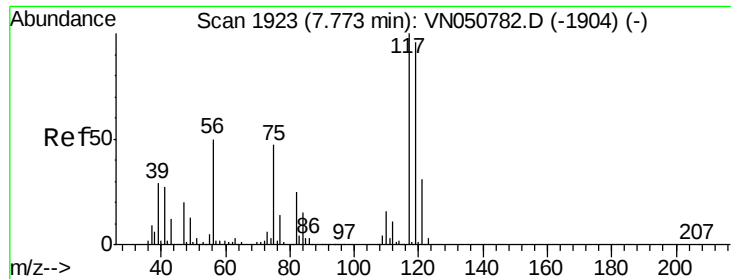
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.6	123.8
192	22.7	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.38 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050926.D
 Acq: 28 Aug 2018 20:42

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

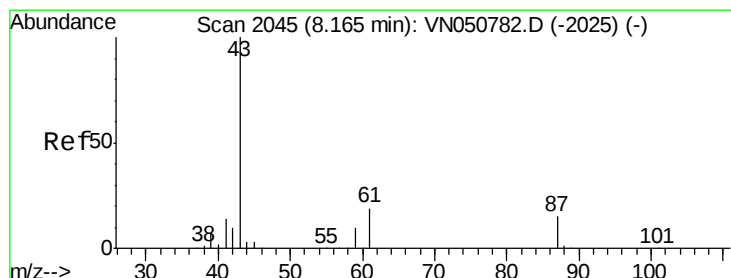
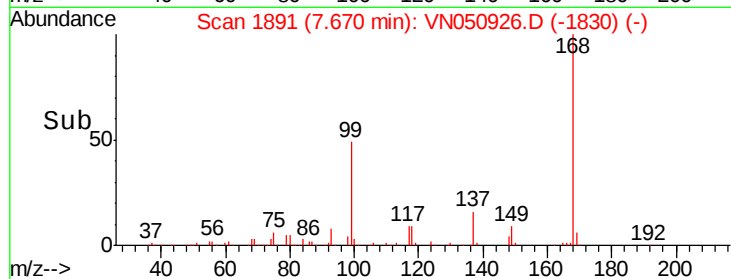
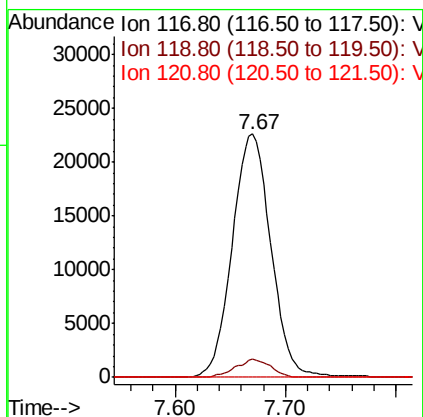
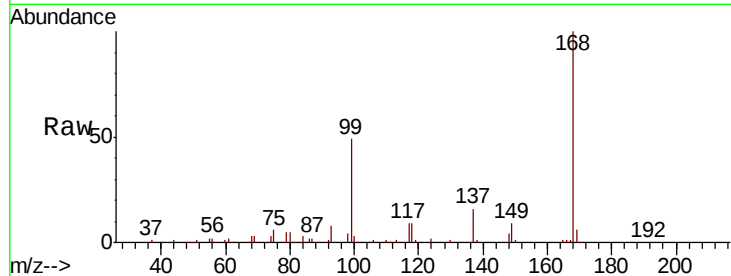




#38
Carbon Tetrachloride
Concen: 4.58 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.10 min
Lab File: VN050926.D
Acq: 28 Aug 2018 20:42

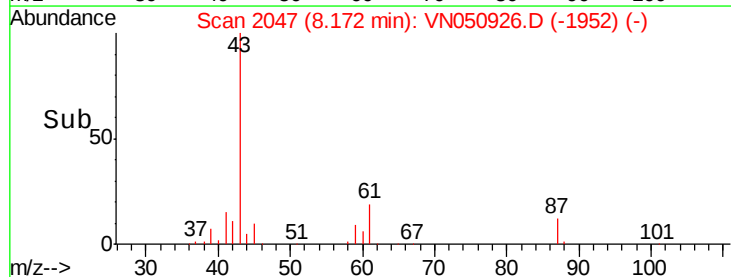
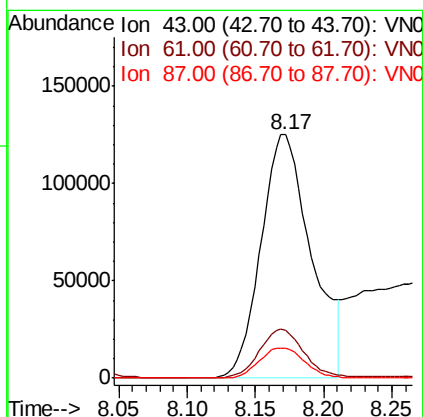
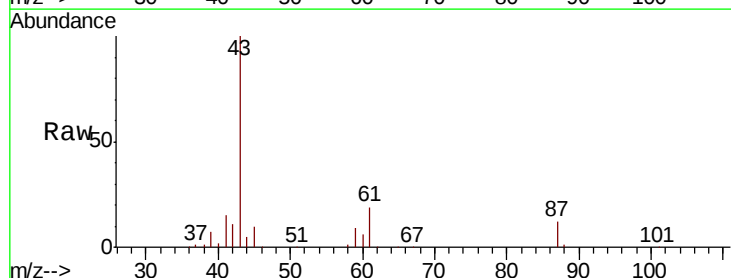
Instrument :
MSVOA_N
ClientSampleId :
PB112421ZHE#04

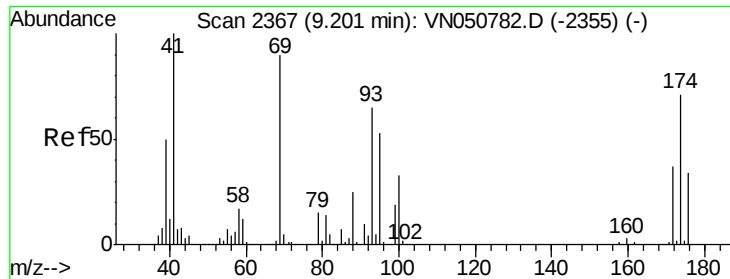
Tot Ion:117 Resp: 54853
Ion Ratio Lower Upper
117 100
119 7.3 76.3 114.5#
121 0.0 24.6 36.8#



#43
Isopropyl Acetate
Concen: 27.42 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.01 min
Lab File: VN050926.D
Acq: 28 Aug 2018 20:42

Tgt Ion: 43 Resp: 320830
Ion Ratio Lower Upper
43 100
61 17.8 17.5 26.3
87 11.3 11.3 16.9

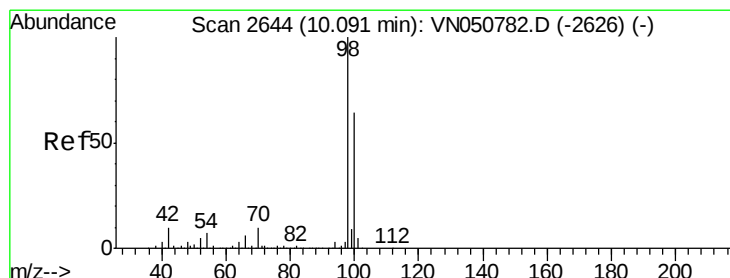
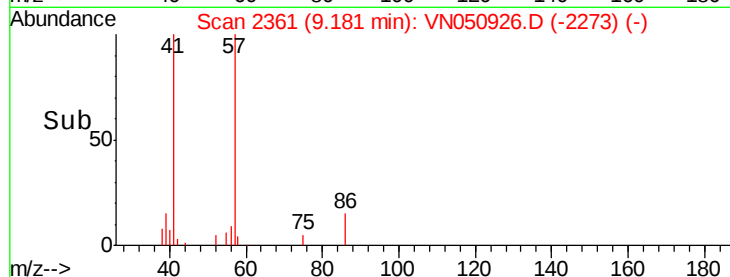
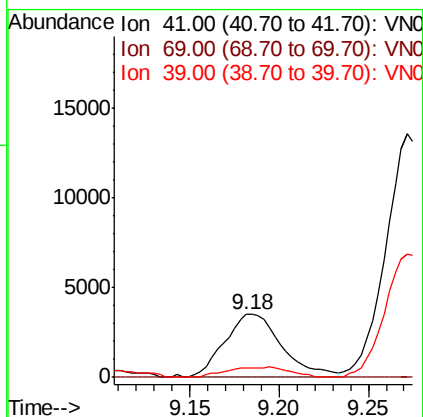
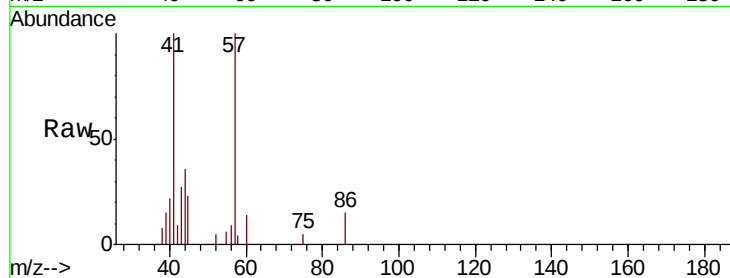




#48
Methvl methacrylate
Concen: 1.32 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050926.D
Acq: 28 Aug 2018 20:42

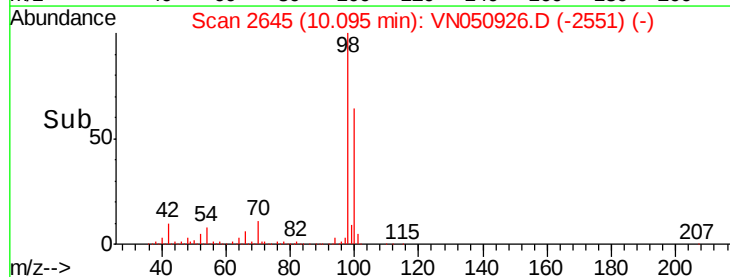
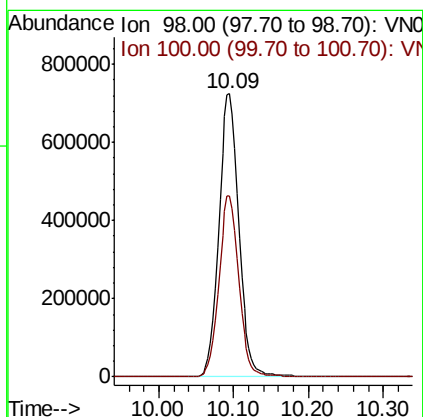
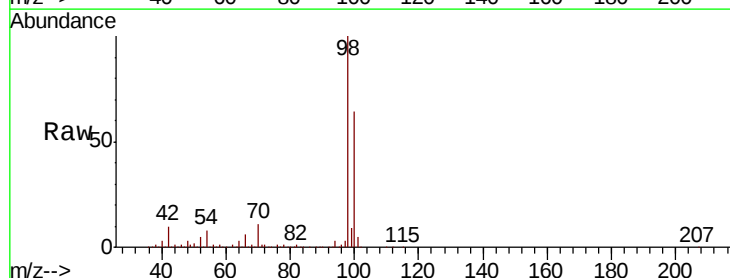
Instrument :
MSVOA_N
ClientSampleId :
PB112421ZHE#04

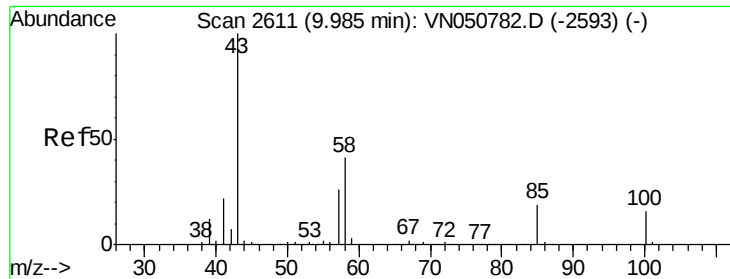
Tot Ion: 41 Resp: 7863
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 9.4 42.2 63.2#



#50
Toluene-d8
Concen: 44.91 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050926.D
Acq: 28 Aug 2018 20:42

Tgt Ion: 98 Resp: 1341027
Ion Ratio Lower Upper
98 100
100 63.7 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 0.27 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

Instrument :

MSVOA_N

ClientSampleId :

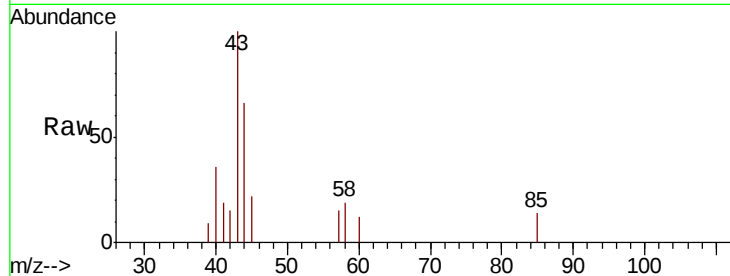
PB112421ZHE#04

Tot Ion: 43 Resp: 1898

Ion Ratio Lower Upper

43 100

58 28.9 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) (-)

9.99

1500

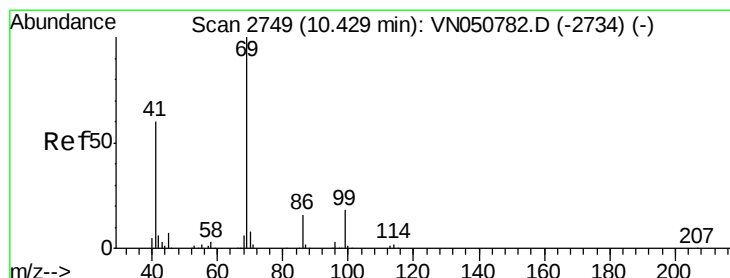
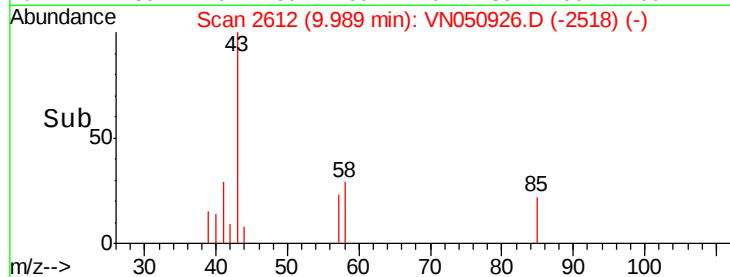
1000

500

0

9.95 10.00

Time-->



#56

Ethyl methacrylate

Concen: 2.55 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.20 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

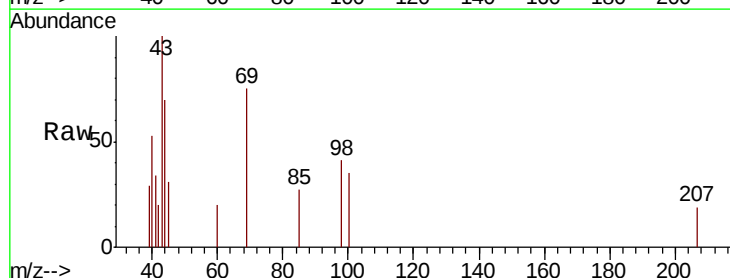
Tgt Ion: 69 Resp: 2180

Ion Ratio Lower Upper

69 100

41 50.0 48.3 72.5

39 0.0 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) (-)

10.23

1200

1000

800

600

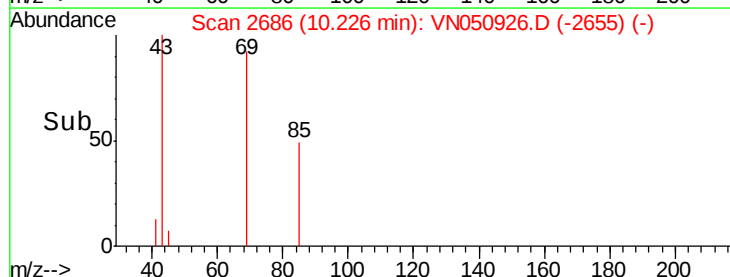
400

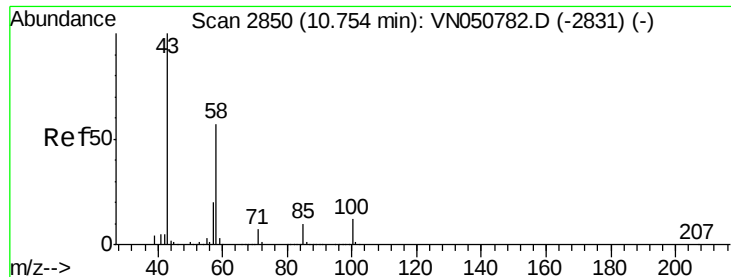
200

0

10.20 10.25

Time-->





#59

2-Hexanone

Concen: 3.75 ug/l

RT: 10.77 min Scan# 2855

Delta R.T. 0.02 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

Instrument :

MSVOA_N

ClientSampleId :

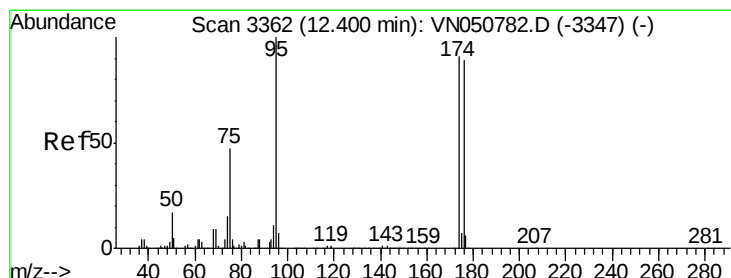
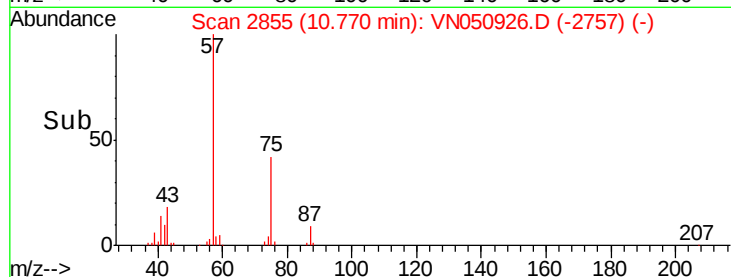
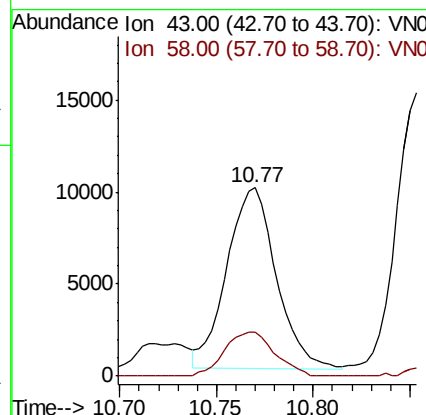
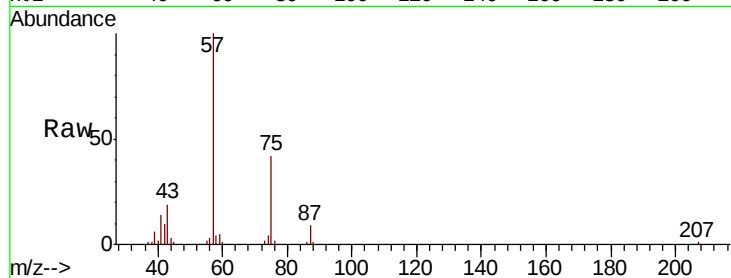
PB112421ZHE#04

Tot Ion: 43 Resp: 17432

Ion Ratio Lower Upper

43 100

58 24.8 28.3 85.0#



#62

4-Bromofluorobenzene

Concen: 35.80 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

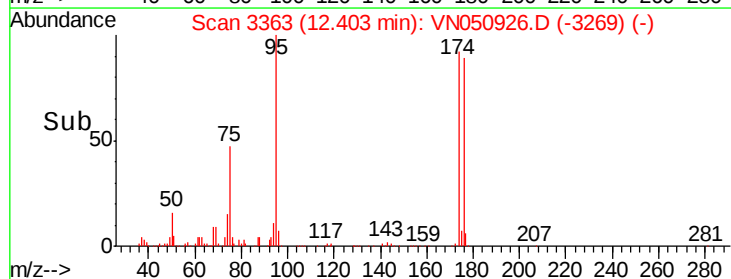
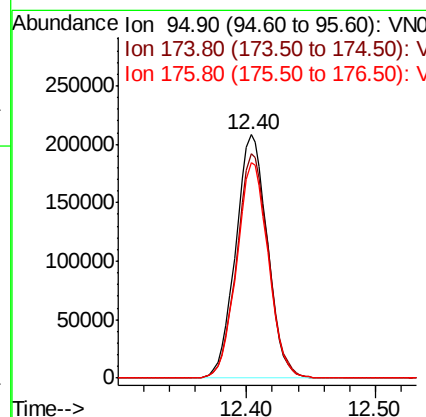
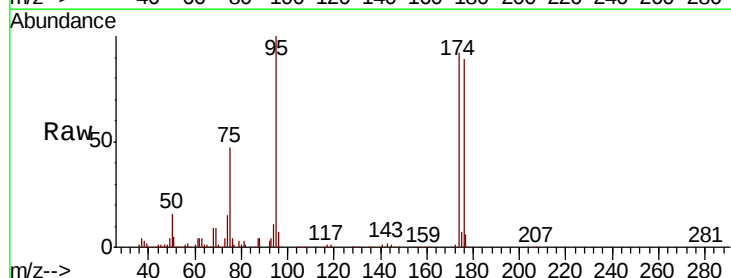
Tgt Ion: 95 Resp: 355226

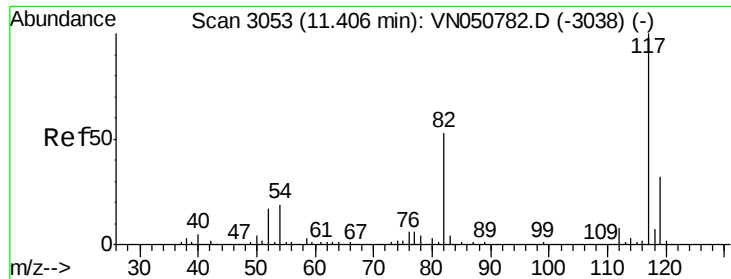
Ion Ratio Lower Upper

95 100

174 92.3 0.0 183.0

176 88.3 0.0 178.8

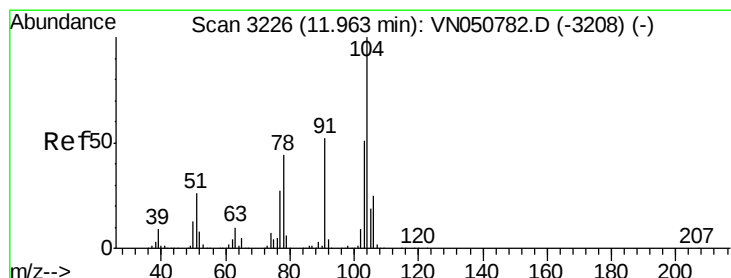
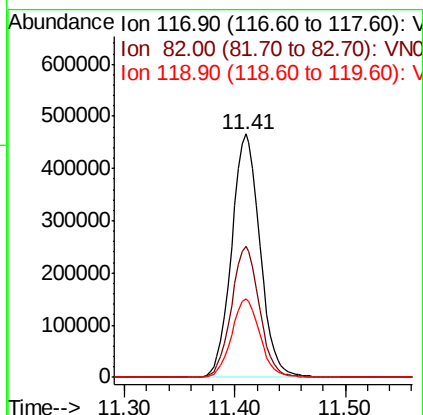
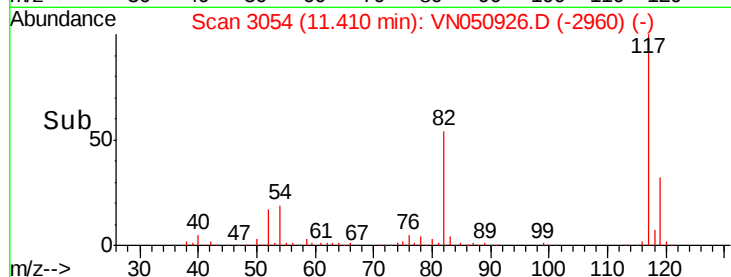
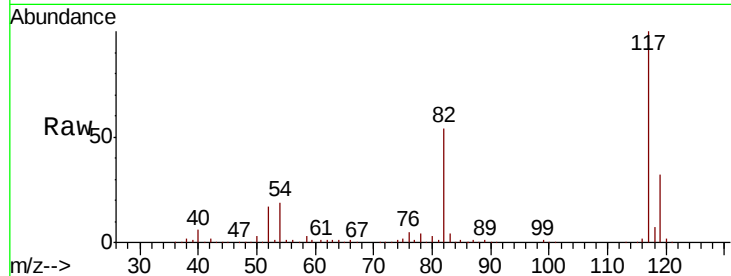




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050926.D
Acq: 28 Aug 2018 20:42

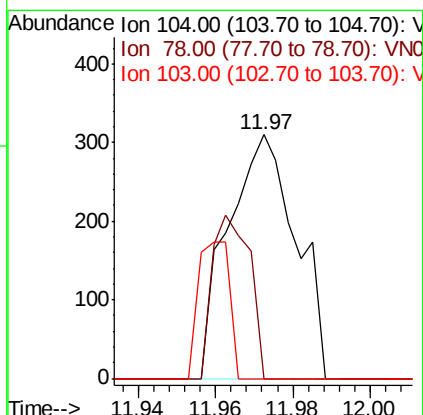
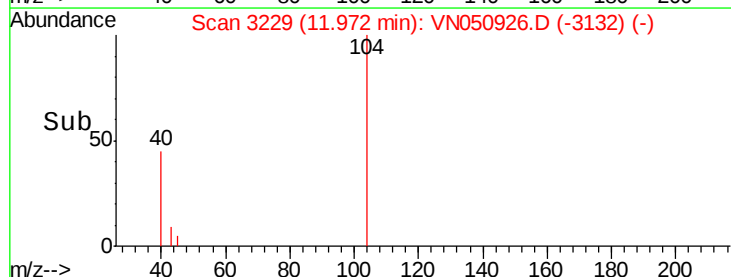
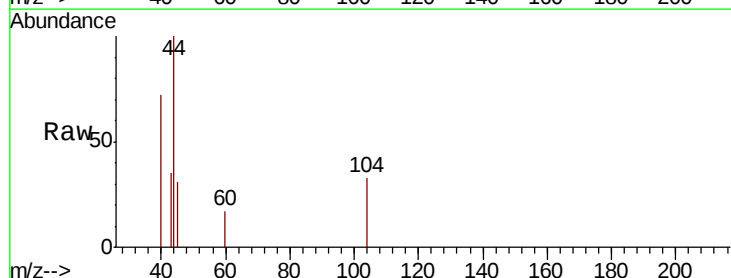
Instrument :
MSVOA_N
ClientSampleId :
PB112421ZHE#04

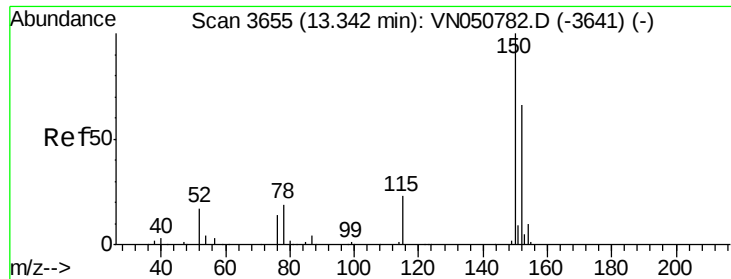
Tot Ion:117 Resp: 830876
Ion Ratio Lower Upper
117 100
82 53.7 42.6 64.0
119 32.3 25.8 38.6



#70
Styrene
Concen: 1.29 ug/l
RT: 11.97 min Scan# 3229
Delta R.T. 0.01 min
Lab File: VN050926.D
Acq: 28 Aug 2018 20:42

Tgt Ion:104 Resp: 378
Ion Ratio Lower Upper
104 100
78 36.8 38.2 57.4#
103 25.9 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: VN050926.D

Acq: 28 Aug 2018 20:42

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#04

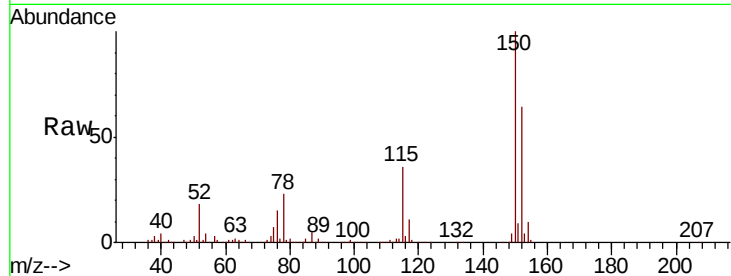
Tot Ion:152 Resp: 278751

Ion Ratio Lower Upper

152 100

115 55.5 27.8 83.4

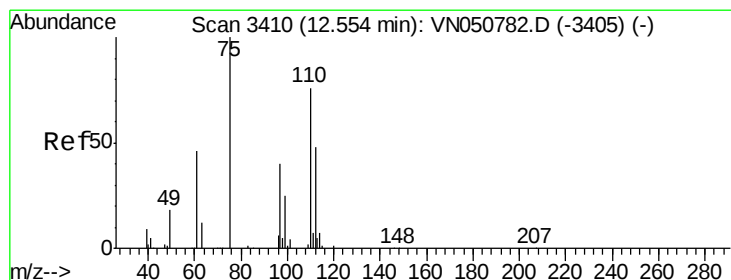
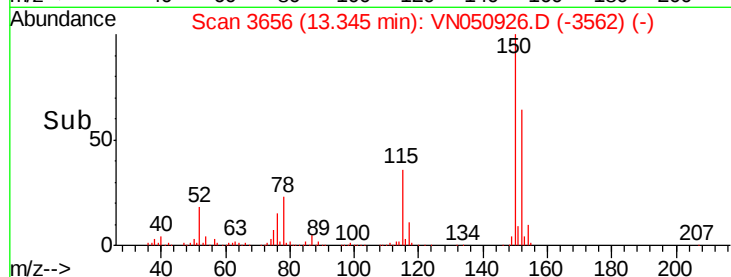
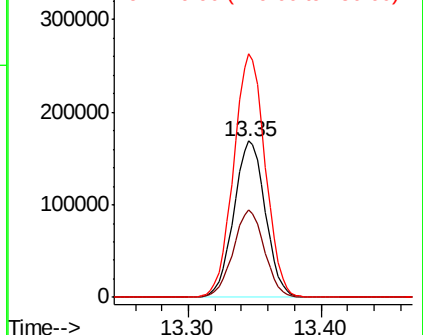
150 156.4 0.0 351.4



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: 34.08 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050926.D

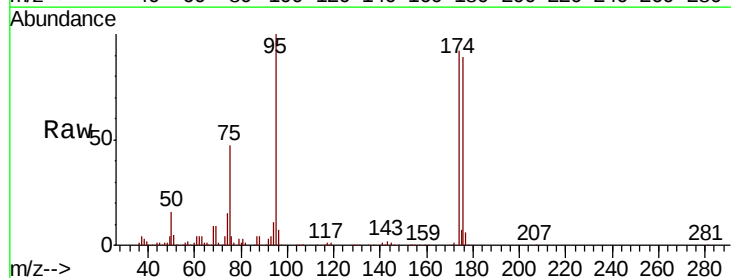
Acq: 28 Aug 2018 20:42

Tgt Ion: 75 Resp: 166367

Ion Ratio Lower Upper

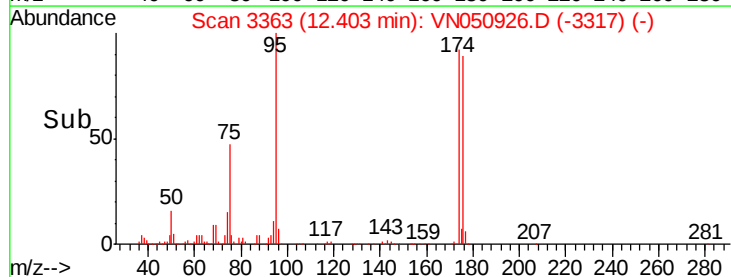
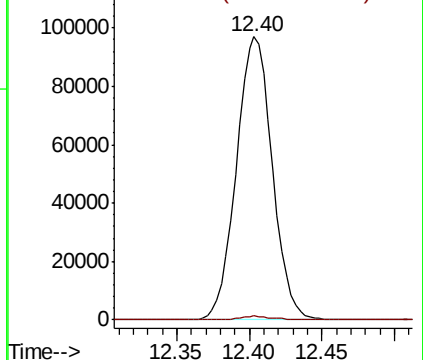
75 100

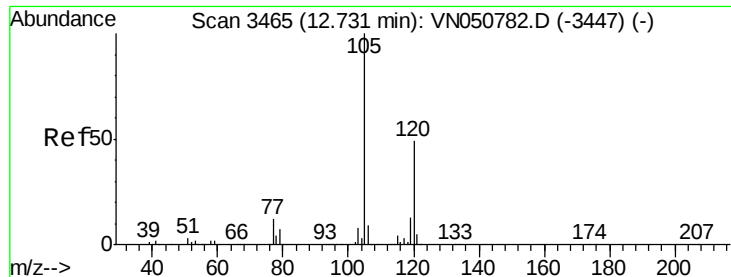
77 1.2 0.0 0.0#



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: 0.23 ug/l

RT: 12.74 min Scan# 3467

Delta R.T. 0.01 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

Instrument :

MSVOA_N

ClientSampleId :

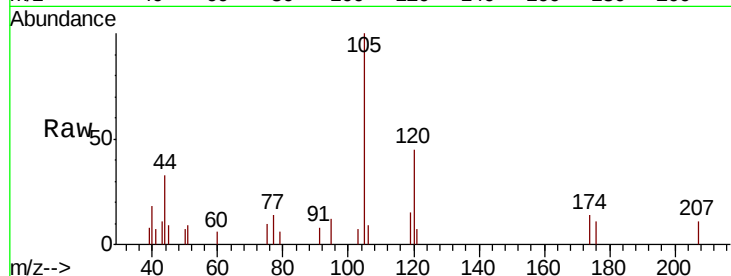
PB112421ZHE#04

Tot Ion:105 Resp: 4328

Ion Ratio Lower Upper

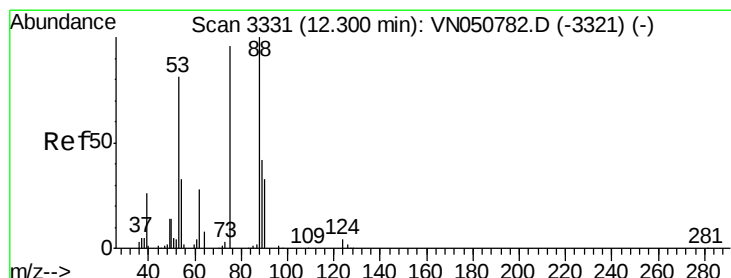
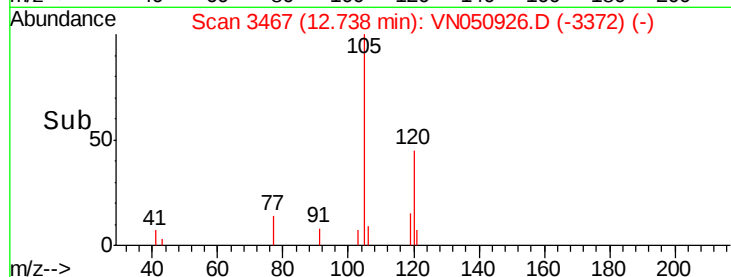
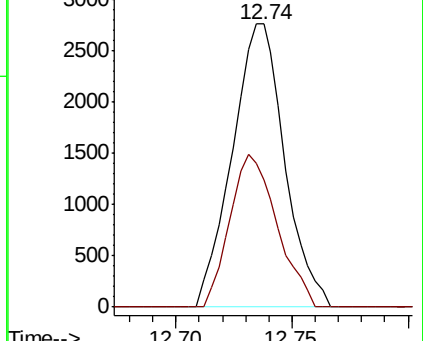
105 100

120 48.5 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: 115.19 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

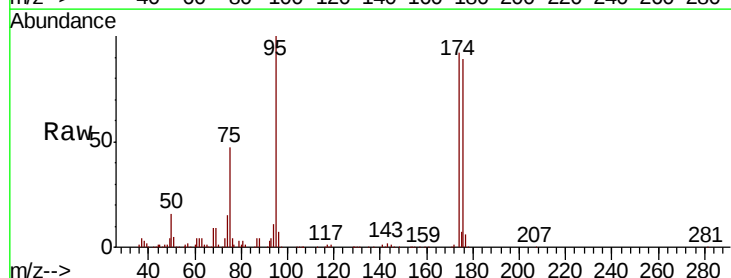
Tgt Ion: 75 Resp: 166367

Ion Ratio Lower Upper

75 100

53 0.1 68.9 103.3#

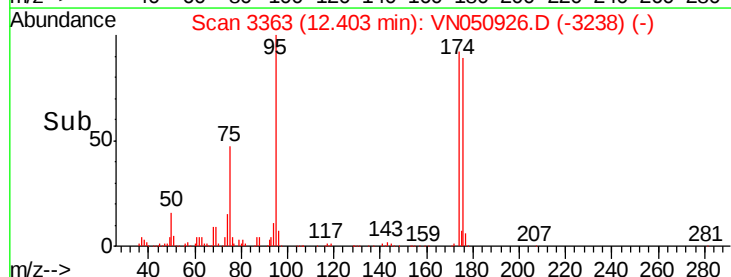
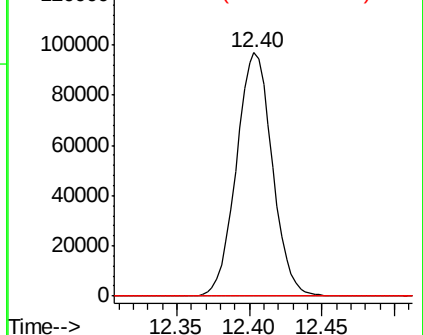
89 0.0 36.1 54.1#

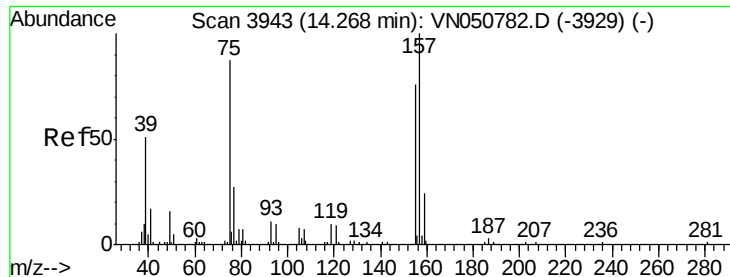


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.26 ug/l

RT: 14.27 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#04

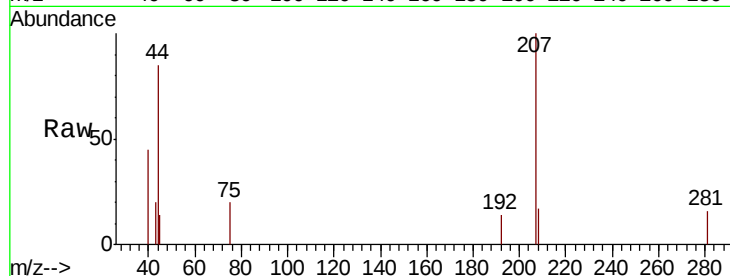
Tot Ion: 75 Resp: 217

Ion Ratio Lower Upper

75 100

155 0.0 46.4 139.1#

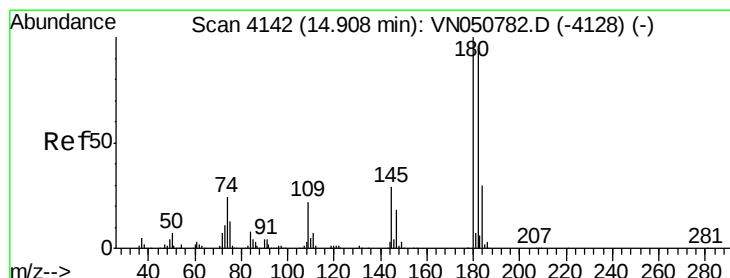
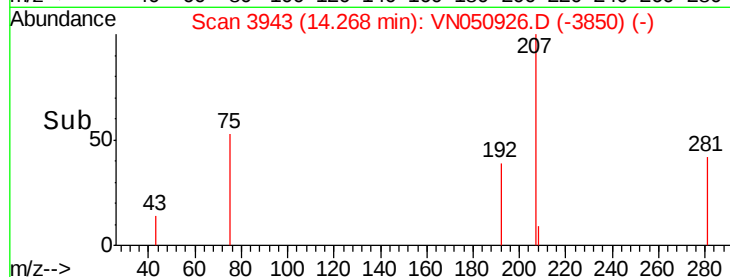
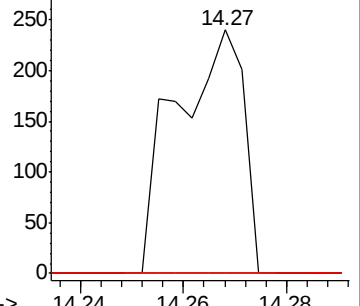
157 0.0 60.7 182.0#



Abundance Ion 74.90 (74.60 to 75.60): VN050926.D (-3929) (-)

Ion 154.80 (154.50 to 155.50): VN050926.D (-3929) (-)

Ion 156.80 (156.50 to 157.50): VN050926.D (-3929) (-)



#93

1,2,4-Trichlorobenzene

Concen: 4.11 ug/l

RT: 14.90 min Scan# 4141

Delta R.T. -0.00 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

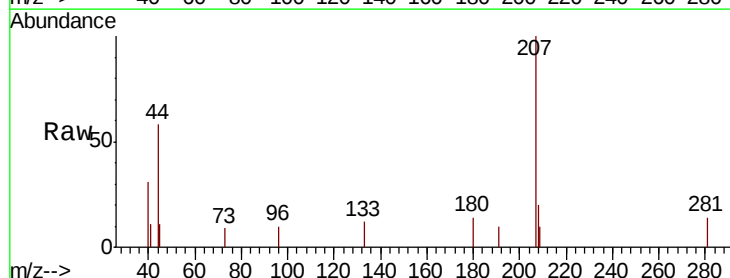
Tgt Ion: 180 Resp: 160

Ion Ratio Lower Upper

180 100

182 90.0 48.2 144.6

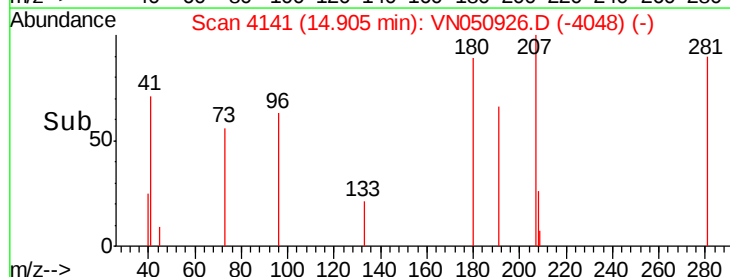
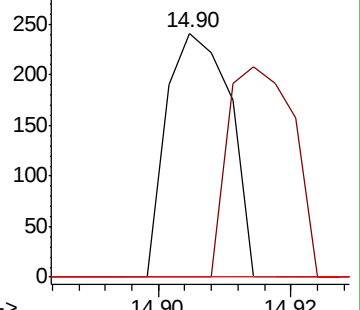
145 0.0 14.1 42.2#

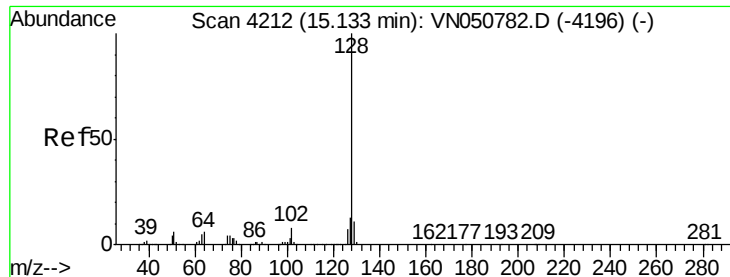


Abundance Ion 179.80 (179.50 to 180.50): VN050926.D (-4048) (-)

Ion 181.80 (181.50 to 182.50): VN050926.D (-4048) (-)

Ion 144.80 (144.50 to 145.50): VN050926.D (-4048) (-)





#95

Naphthalene

Concen: 5.45 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#04

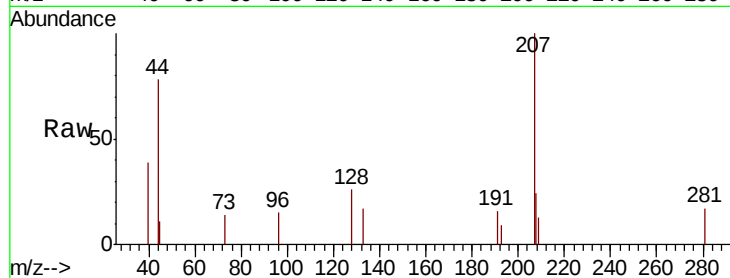
Tot Ion:128 Resp: 686

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

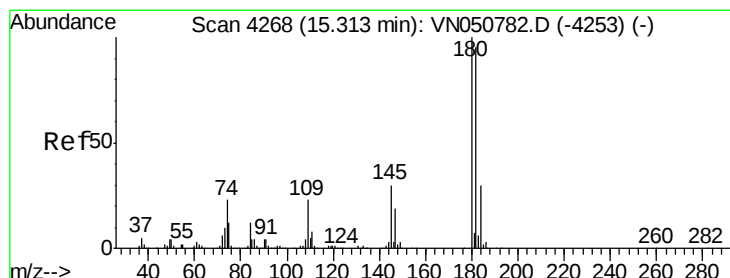
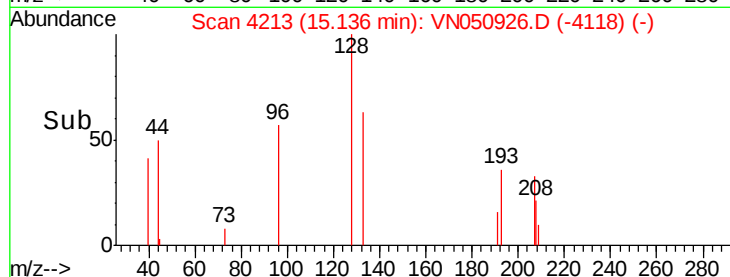
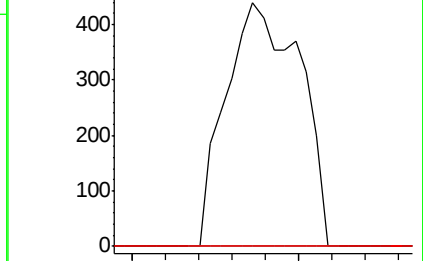
129 0.0 8.7 13.1#



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



#96

1,2,3-Trichlorobenzene

Concen: 3.33 ug/l

RT: 15.33 min Scan# 4272

Delta R.T. 0.01 min

Lab File: VN050926.D

Acq: 28 Aug 2018 20:42

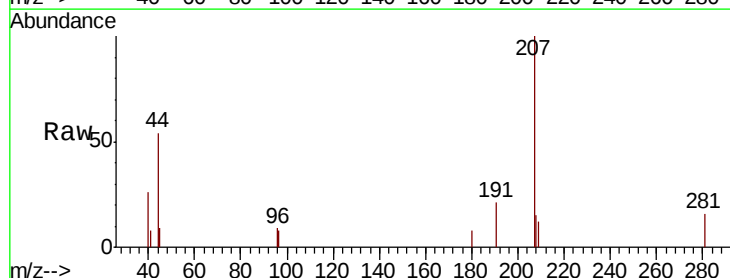
Tgt Ion:180 Resp: 160

Ion Ratio Lower Upper

180 100

182 116.3 48.0 144.2

145 0.0 15.2 45.6#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

