

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082318\
 Data File : VN050845.D
 Acq On : 23 Aug 2018 11:54
 Operator : MD\SY
 Sample : J4609-01DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 24 01:09:10 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	730143	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1049299	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	906628	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	307819	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	427194	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
35) Dibromofluoromethane	7.59	113	408435	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
50) Toluene-d8	10.09	98	1453629	46.58	ug/l	0.00
Spiked Amount			Recovery	=	93.16%	
62) 4-Bromofluorobenzene	12.40	95	405481	39.10	ug/l	0.00
Spiked Amount			Recovery	=	78.20%	

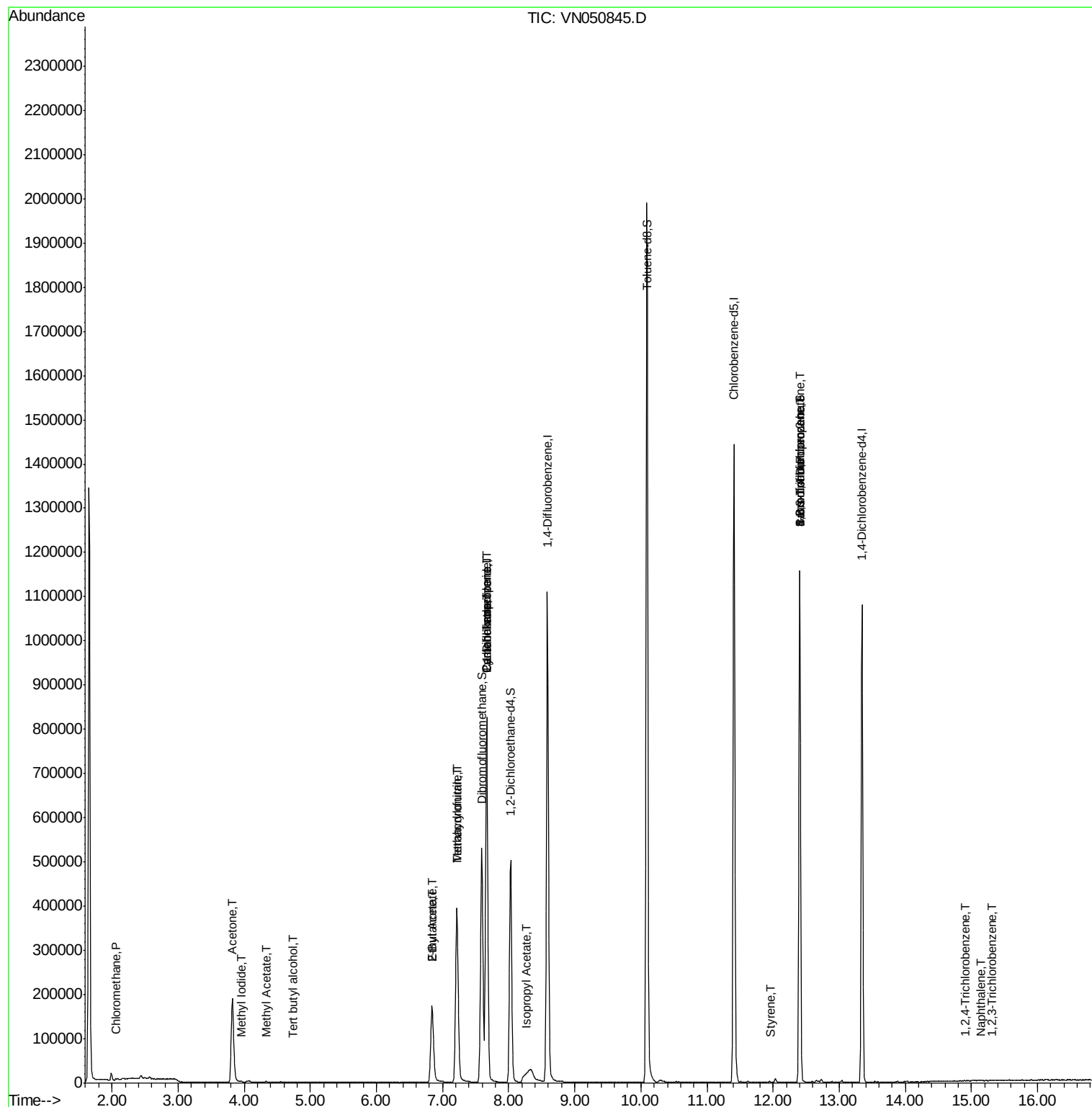
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2765	0.23	ug/l	# 77
5) Bromomethane	2.57	94	3408	Below	Cal	# 81
10) Methyl Iodide	3.96	142	697	6.42	ug/l	# 60
11) Tert butyl alcohol	4.74	59	438	0.78	ug/l	# 72
16) Acetone	3.82	43	320397	151.13	ug/l	# 100
18) Methyl Acetate	4.34	43	5150	0.62	ug/l	# 60
25) 2-Butanone	6.84	43	317638	89.67	ug/l	# 97
29) Tetrahydrofuran	7.22	42	337006	165.94	ug/l	# 98
31) Cyclohexane	7.67	56	12627	1.30	ug/l	# 1
36) 1,1-Dichloropropene	7.66	75	47531	3.84	ug/l	# 49
37) Ethyl Acetate	6.84	43	317638	44.66	ug/l	# 68
38) Carbon Tetrachloride	7.67	117	63197	5.05	ug/l	# 15
41) Methacrylonitrile	7.22	41	192806	50.09	ug/l	# 37
43) Isopropyl Acetate	8.26	43	18932	1.55	ug/l	# 58
70) Styrene	11.97	104	203	1.28	ug/l	# 26
71) Bromoform	12.40	173	1649	0.28	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.40	83	132	Below	Cal	# 1
76) 1,2,3-Trichloropropane	12.40	75	190794	35.39	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	190794	119.63	ug/l	# 15
93) 1,2,4-Trichlorobenzene	14.90	180	95	4.10	ug/l	# 87
95) Naphthalene	15.14	128	724	5.45	ug/l	# 69
96) 1,2,3-Trichlorobenzene	15.31	180	254	3.34	ug/l	# 12

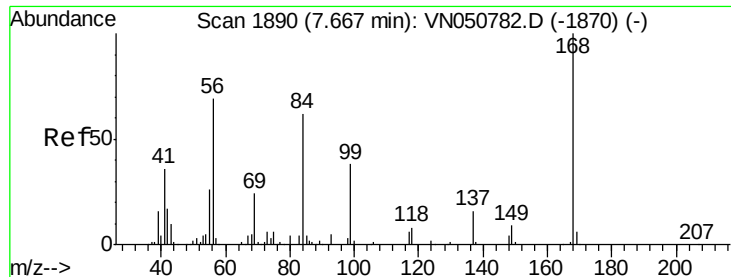
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1890

Delta R.T. -0.00 min

Lab File: VN050845.D

Acq: 23 Aug 2018 11:54

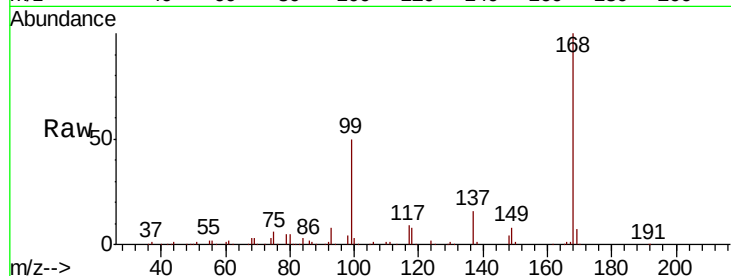
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 730143

Ion Ratio Lower Upper

168 100

99 50.2 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

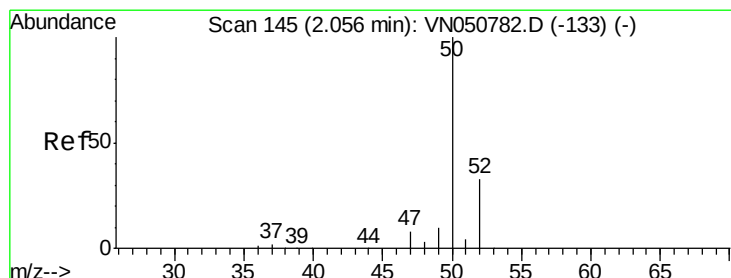
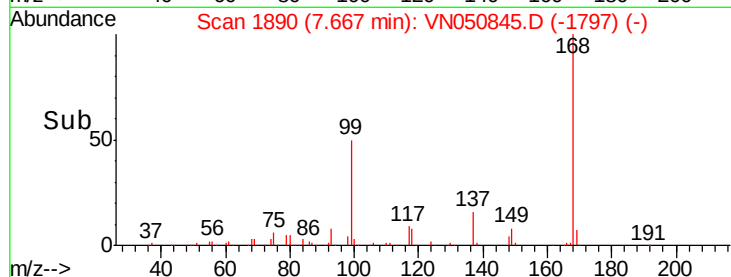
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#3

Chloromethane

Concen: 0.23 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050845.D

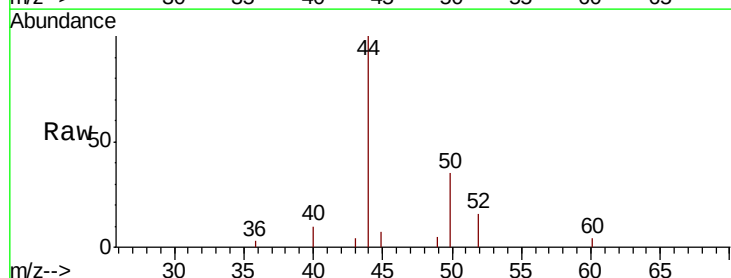
Acq: 23 Aug 2018 11:54

Tgt Ion: 50 Resp: 2765

Ion Ratio Lower Upper

50 100

52 45.6 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

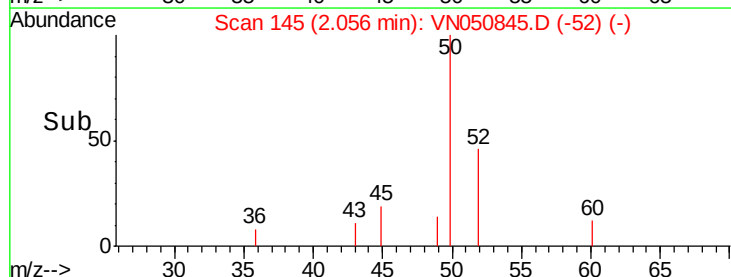
1500

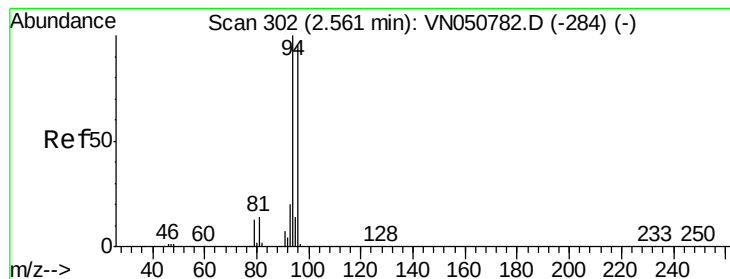
1000

500

0

Time--> 2.00 2.05 2.10





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050845.D

Acq: 23 Aug 2018 11:54

Instrument :

MSVOA_N

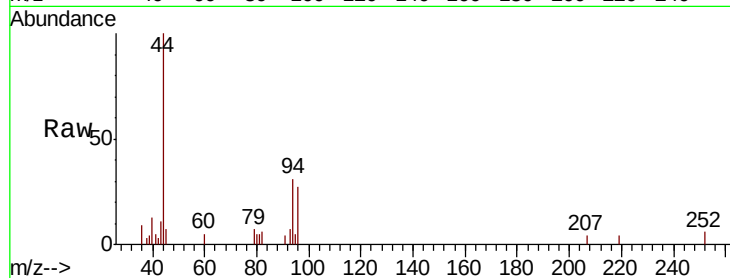
ClientSampleId :

Tot Ion: 94 Resp: 3408

Ion Ratio Lower Upper

94 100

96 77.2 76.2 114.2



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

Ion 95.90 (95.60 to 96.60): VN050782.D (-284) (-)

2.57

1500

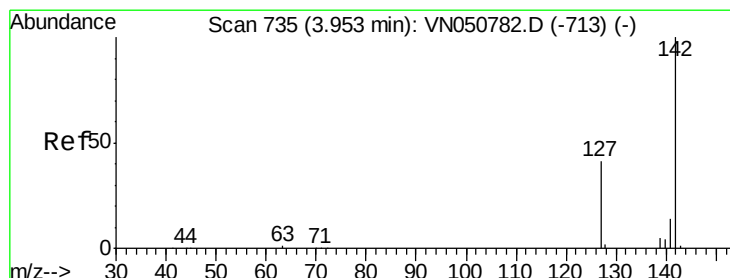
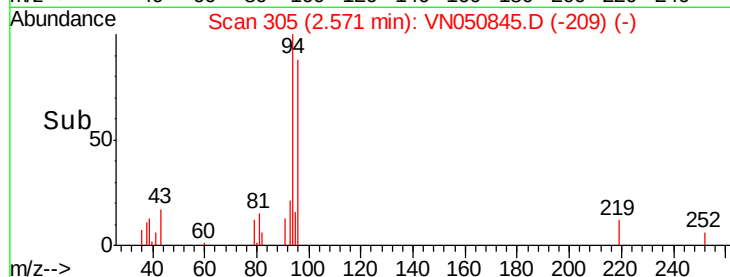
1000

500

0

2.50 2.55 2.60 2.65

Time-->



#10

Methyl Iodide

Concen: 6.42 ug/l

RT: 3.96 min Scan# 737

Delta R.T. 0.01 min

Lab File: VN050845.D

Acq: 23 Aug 2018 11:54

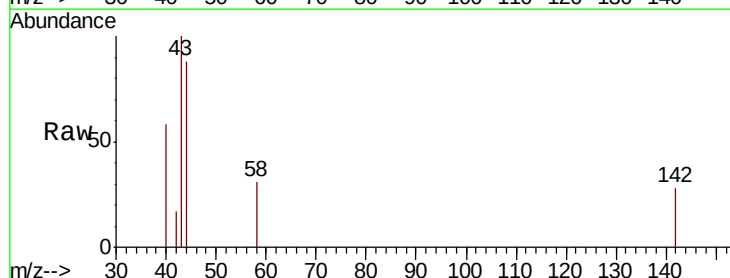
Tgt Ion: 142 Resp: 697

Ion Ratio Lower Upper

142 100

127 13.5 31.7 47.5#

141 0.0 11.4 17.0#



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

Ion 126.80 (126.50 to 127.50): VN050782.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050782.D (-713) (-)

3.96

400

300

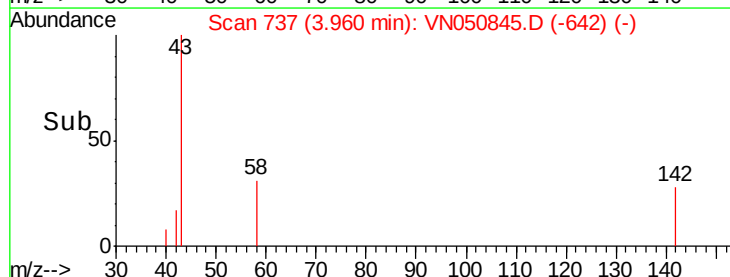
200

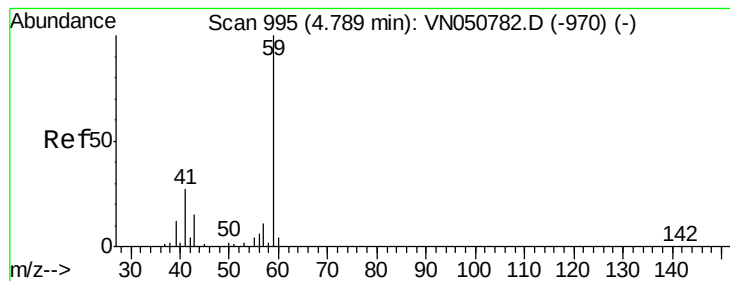
100

0

3.90 3.95 4.00

Time-->





#11

Tert butyl alcohol

Concen: 0.78 ug/l

RT: 4.74 min Scan# 981

Delta R.T. -0.05 min

Lab File: VN050845.D

Acq: 23 Aug 2018 11:54

Instrument :

MSVOA_N

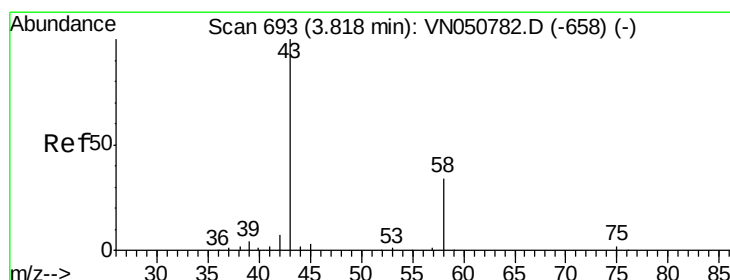
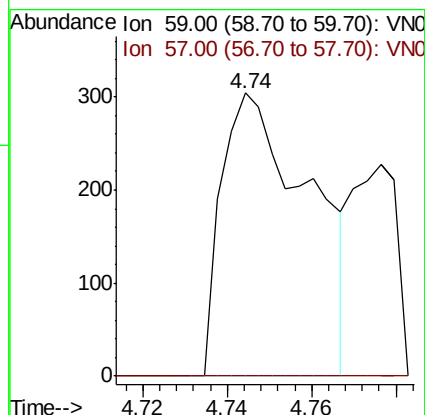
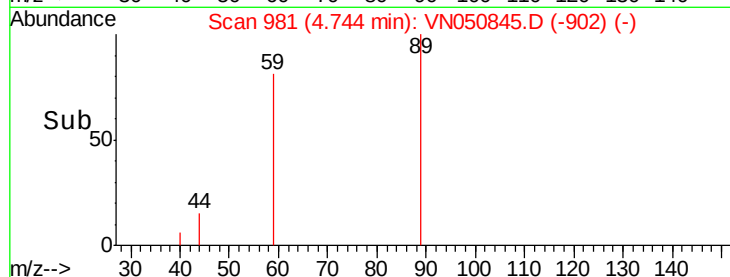
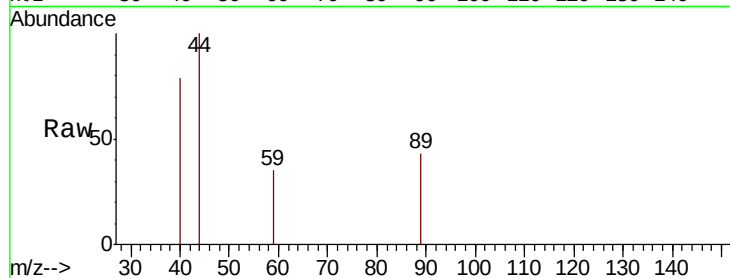
ClientSampled :

Tot Ion: 59 Resp: 438

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#16

Acetone

Concen: 151.13 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN050845.D

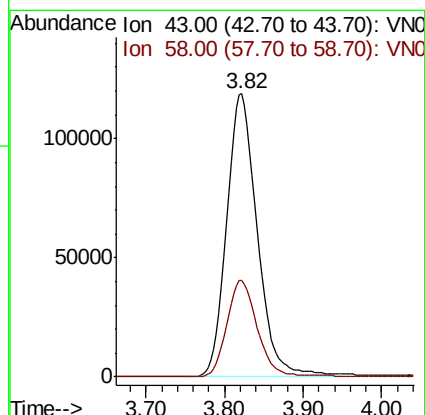
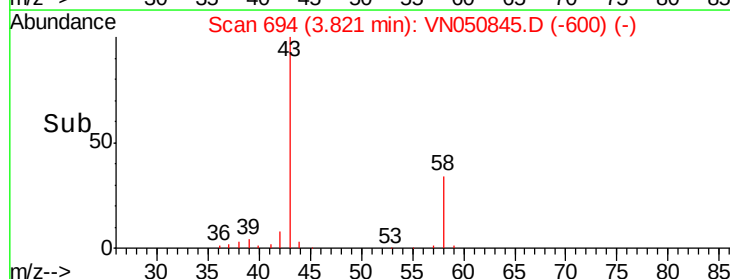
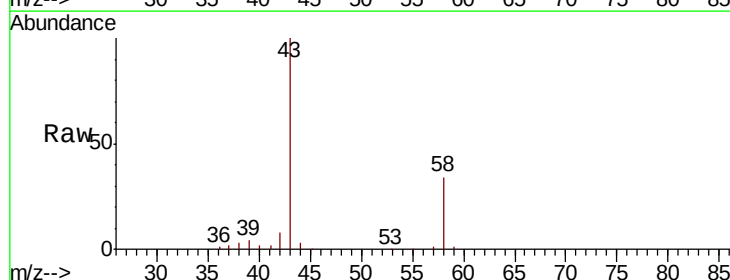
Acq: 23 Aug 2018 11:54

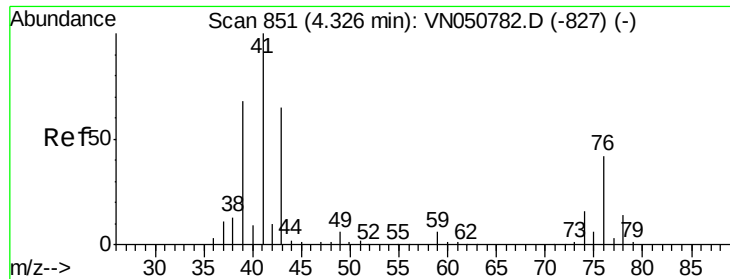
Tgt Ion: 43 Resp: 320397

Ion Ratio Lower Upper

43 100

58 34.1 27.2 40.8

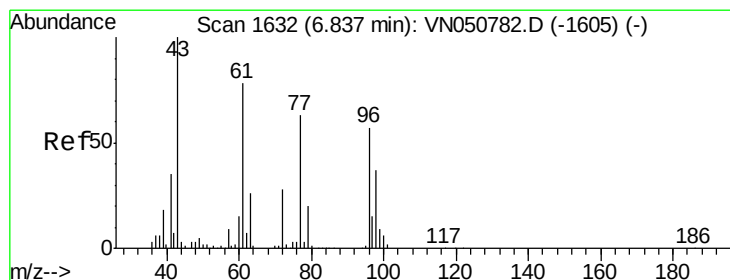
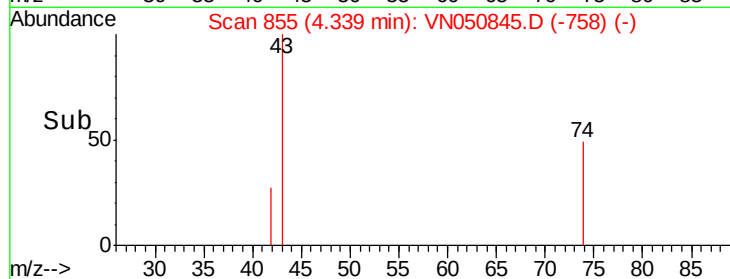
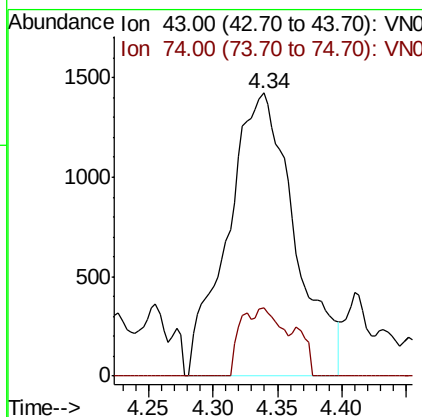
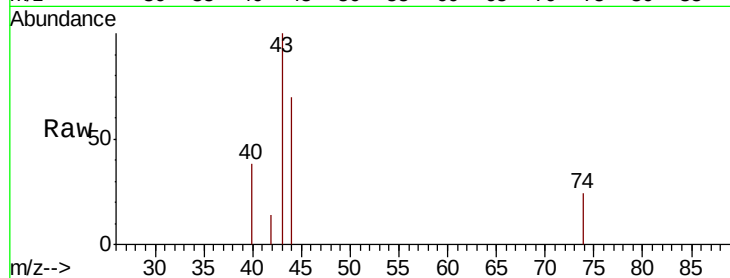




#18
Methyl Acetate
Concen: 0.62 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050845.D
Acq: 23 Aug 2018 11:54

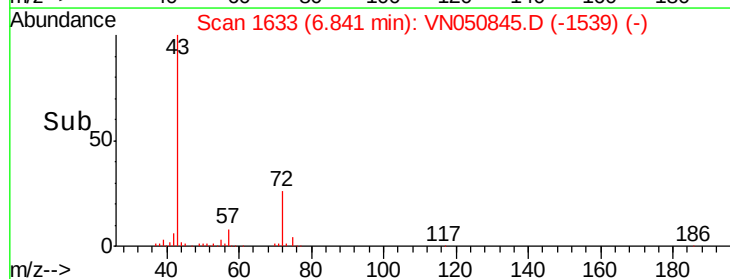
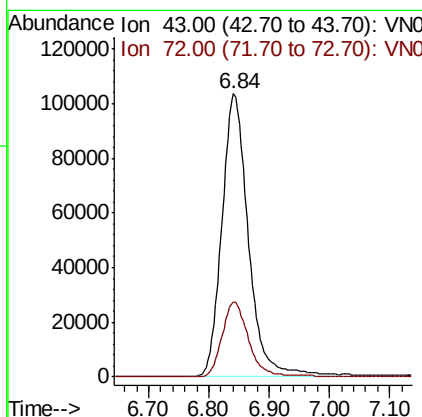
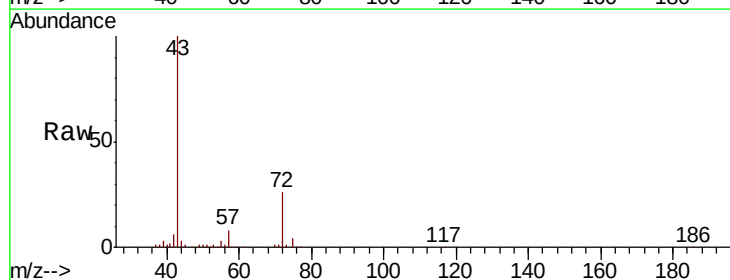
Instrument :
MSVOA_N
ClientSampled :

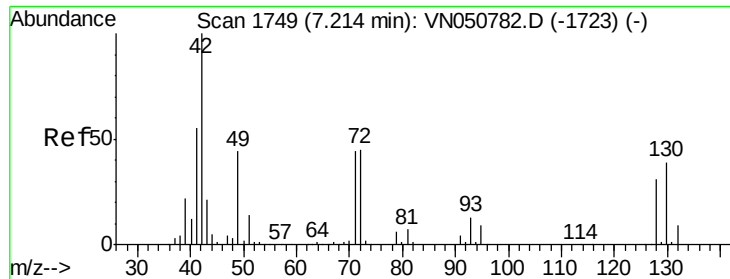
Tot Ion: 43 Resp: 5150
Ion Ratio Lower Upper
43 100
74 4.9 19.8 29.8#



#25
2-Butanone
Concen: 89.67 ug/l
RT: 6.84 min Scan# 1633
Delta R.T. 0.00 min
Lab File: VN050845.D
Acq: 23 Aug 2018 11:54

Tgt Ion: 43 Resp: 317638
Ion Ratio Lower Upper
43 100
72 26.4 22.3 33.5





#29

Tetrahydrofuran

Concen: 165.94 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN050845.D

Acq: 23 Aug 2018 11:54

Instrument :

MSVOA_N

ClientSampled :

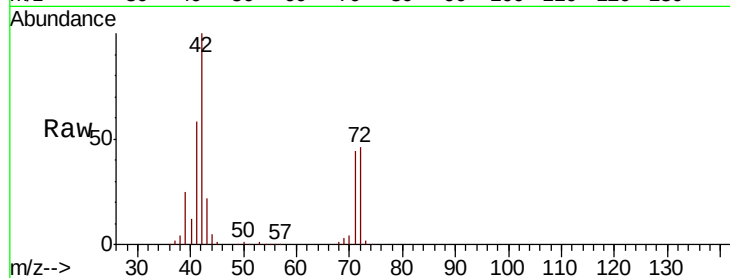
Tot Ion: 42 Resp: 337006

Ion Ratio Lower Upper

42 100

72 45.0 35.5 53.3

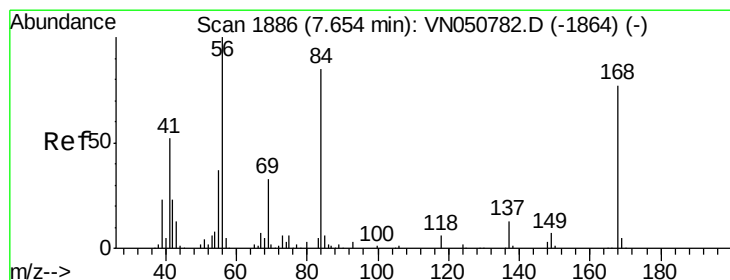
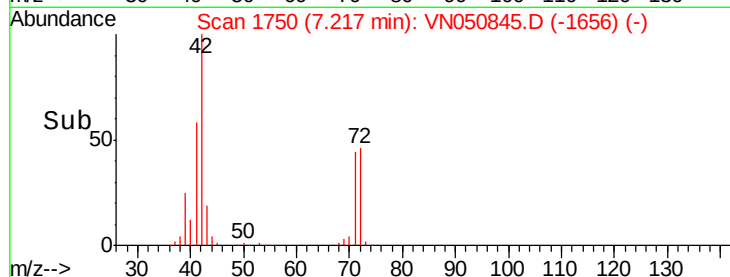
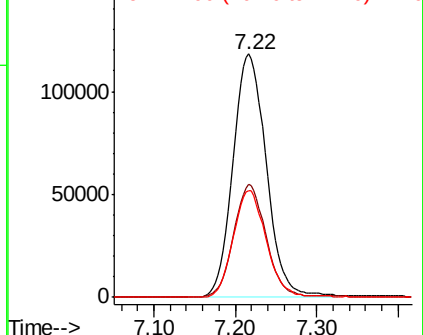
71 43.4 33.7 50.5



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.30 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN050845.D

Acq: 23 Aug 2018 11:54

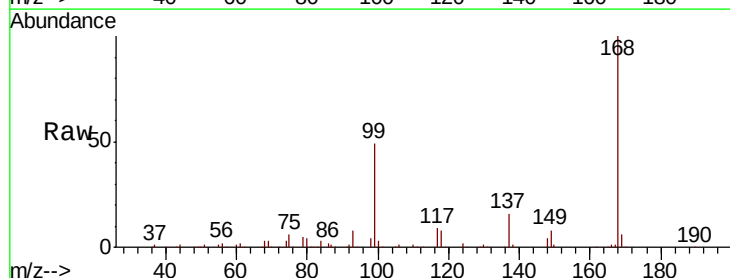
Tgt Ion: 56 Resp: 12627

Ion Ratio Lower Upper

56 100

69 176.0 26.2 39.4#

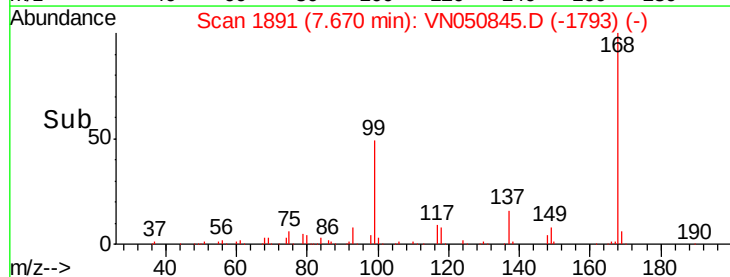
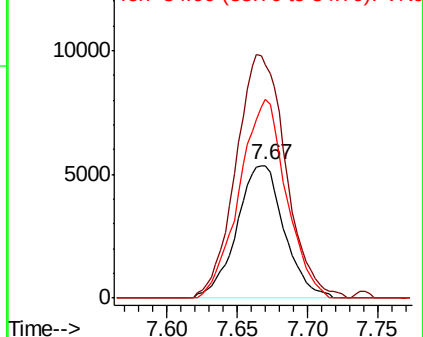
84 150.1 68.3 102.5#

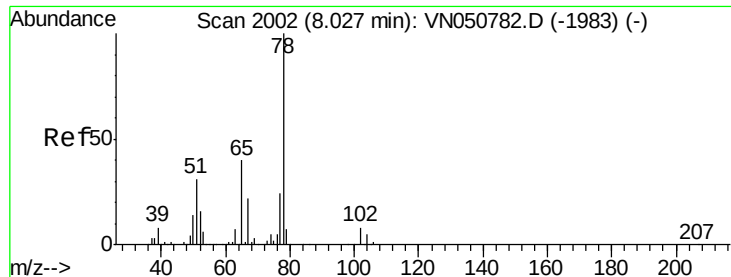


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

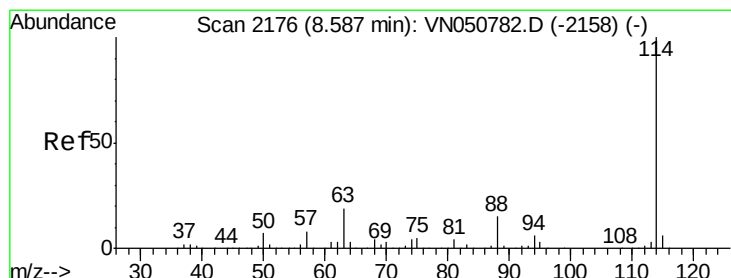
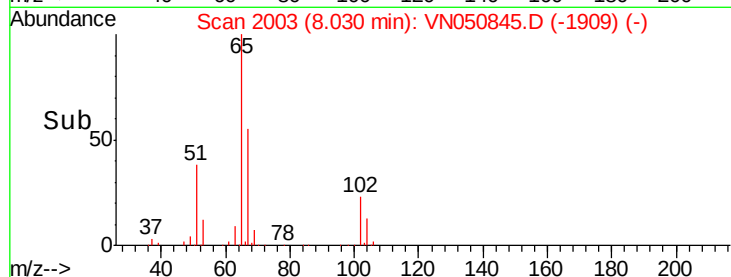
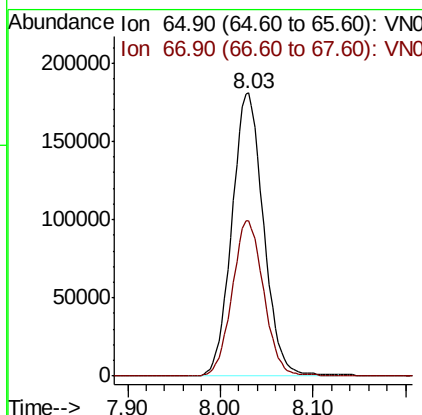
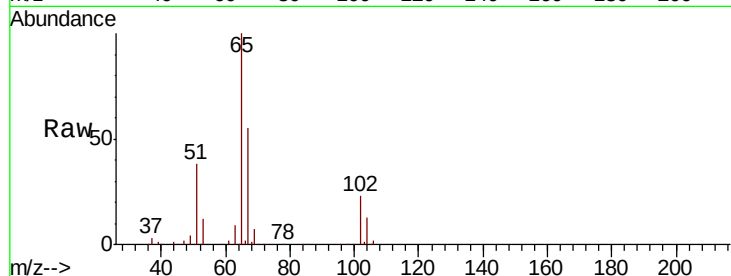




#33
 1,2-Dichloroethane-d4
 Concen: 48.60 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050845.D
 Acq: 23 Aug 2018 11:54

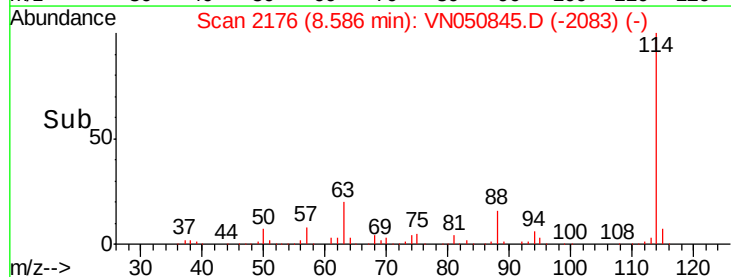
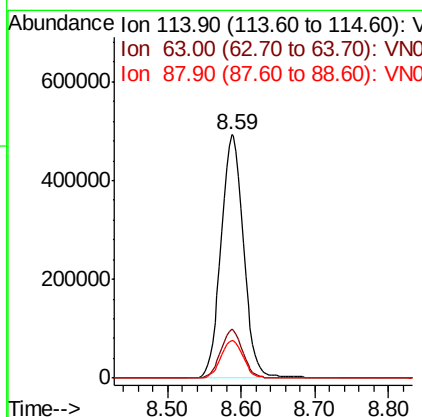
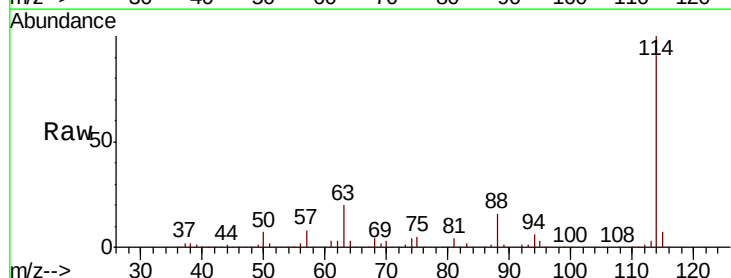
Instrument :
 MSVOA_N
 ClientSampled :

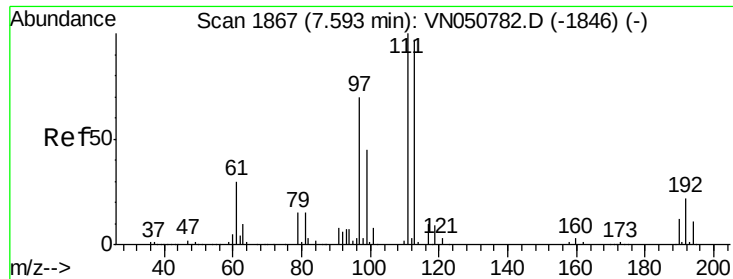
Tot Ion: 65 Resp: 427194
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050845.D
 Acq: 23 Aug 2018 11:54

Tgt Ion: 114 Resp: 1049299
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 38.6
 88 15.7 0.0 30.6

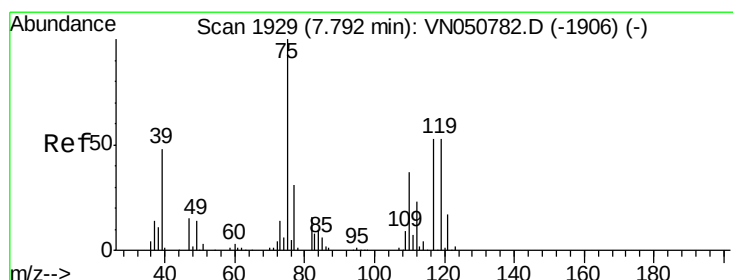
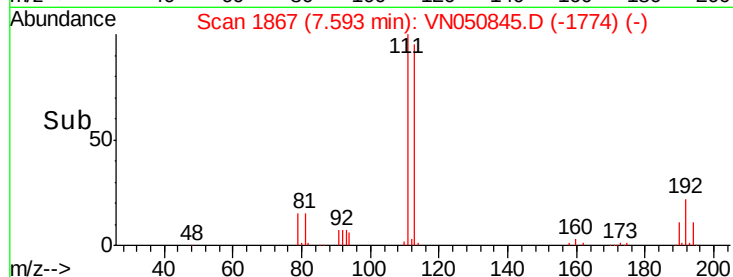
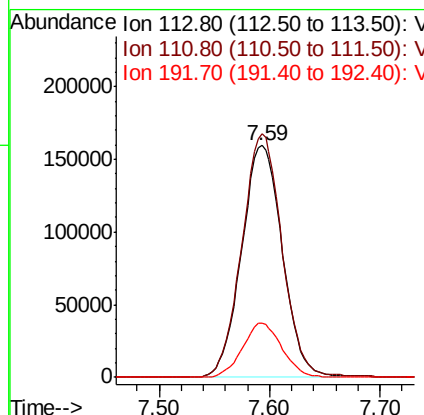
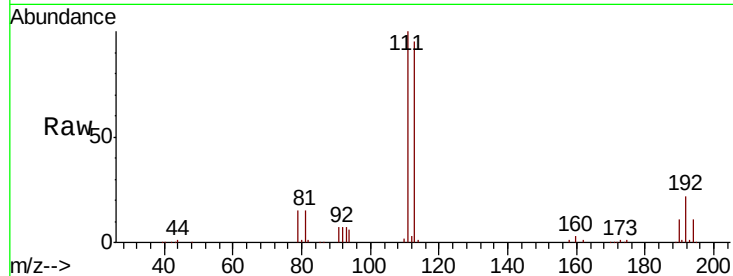




#35
 Dibromofluoromethane
 Concen: 48.93 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050845.D
 Acq: 23 Aug 2018 11:54

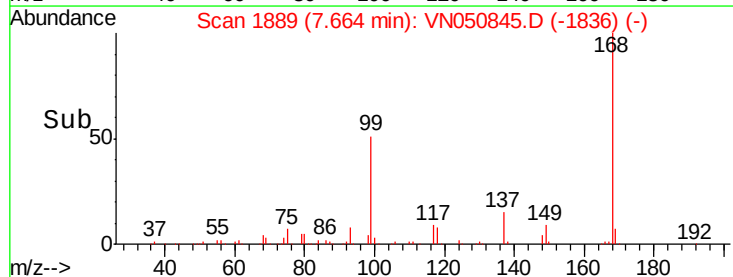
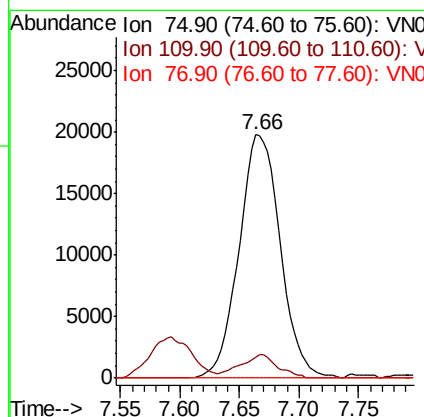
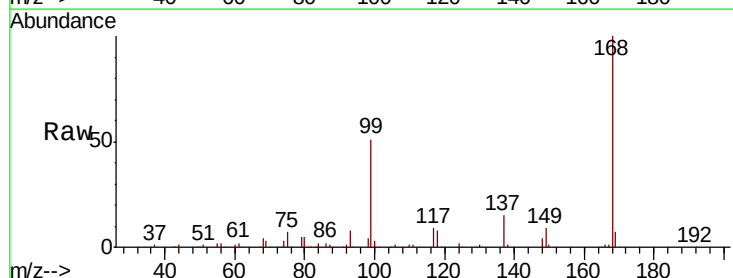
Instrument :
 MSVOA_N
 ClientSampleId :

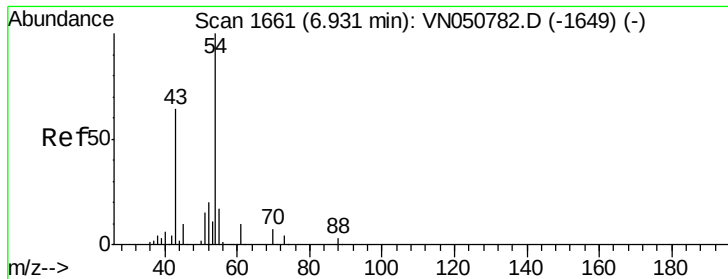
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.6	123.8
192	22.7	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.84 ug/l
 RT: 7.66 min Scan# 1889
 Delta R.T. -0.13 min
 Lab File: VN050845.D
 Acq: 23 Aug 2018 11:54

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

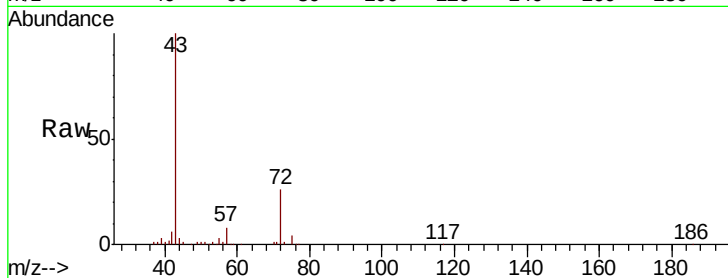




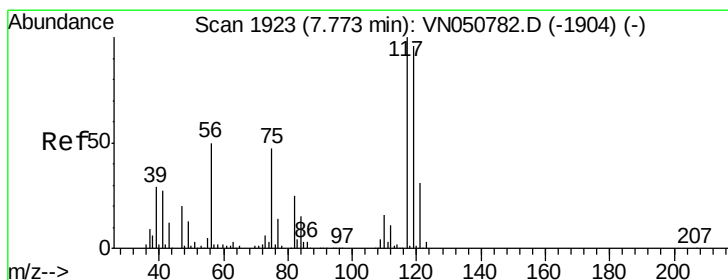
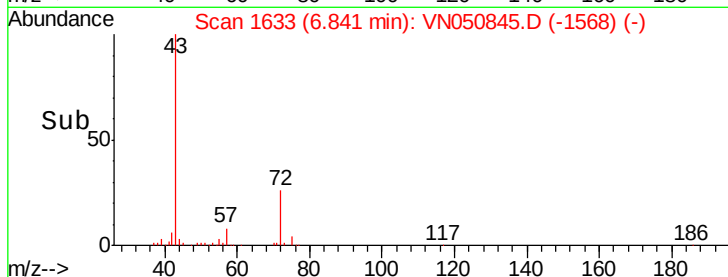
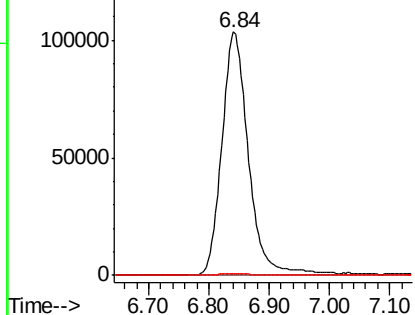
#37
Ethyl Acetate
Concen: 44.66 ug/l
RT: 6.84 min Scan# 1633
Delta R.T. -0.09 min
Lab File: VN050845.D
Acq: 23 Aug 2018 11:54

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 317638
Ion Ratio Lower Upper
43 100
61 0.0 12.0 18.0#
70 0.8 8.6 13.0#

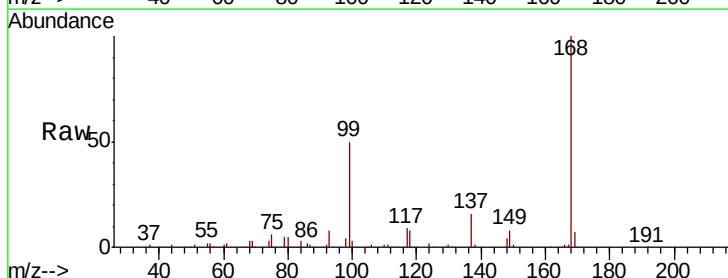


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

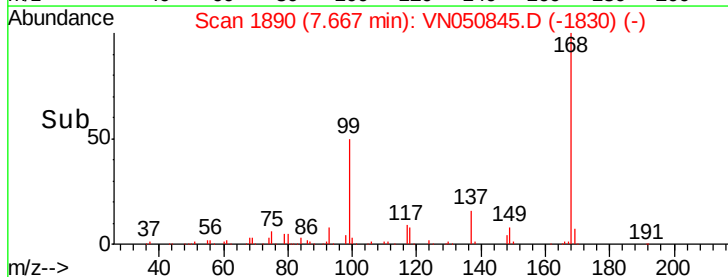
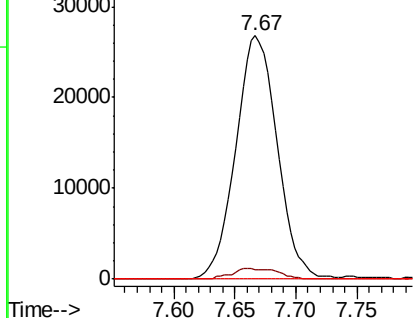


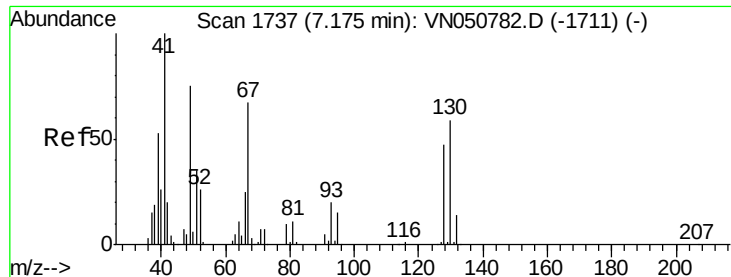
#38
Carbon Tetrachloride
Concen: 5.05 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050845.D
Acq: 23 Aug 2018 11:54

Tgt Ion: 117 Resp: 63197
Ion Ratio Lower Upper
117 100
119 4.0 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

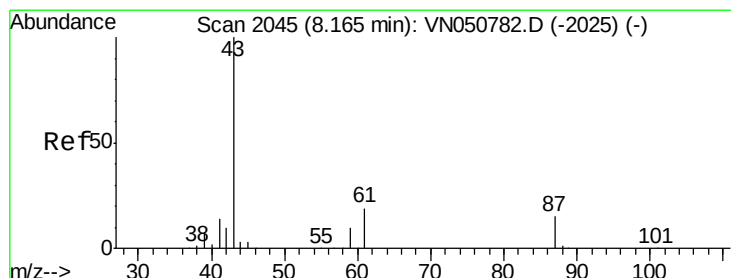
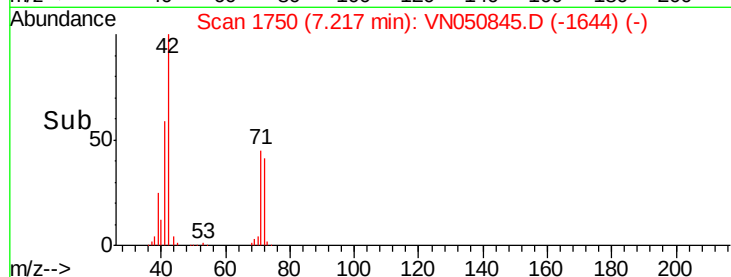
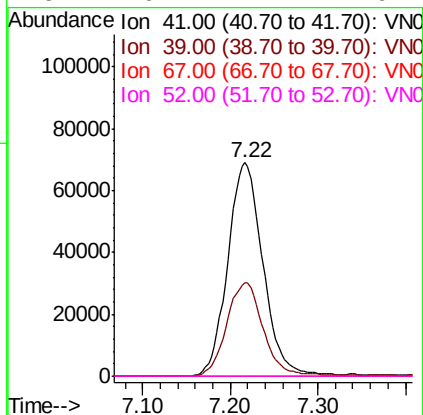
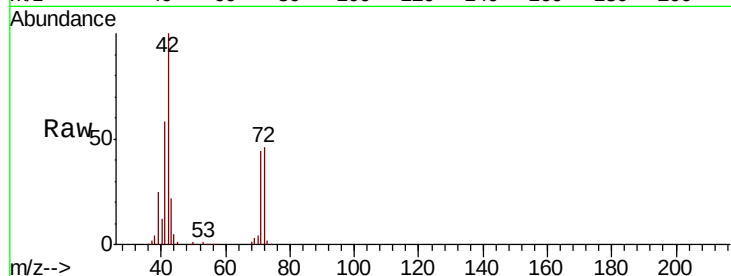




#41
Methacrylonitrile
Concen: 50.09 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.04 min
Lab File: VN050845.D
Acq: 23 Aug 2018 11:54

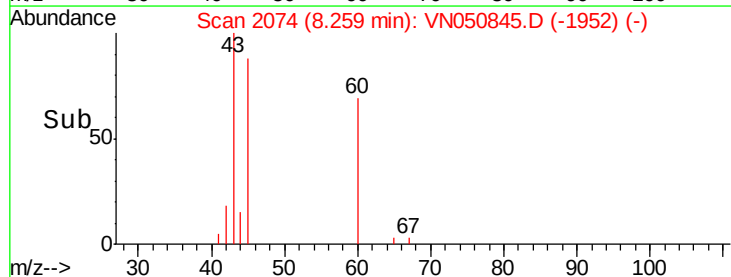
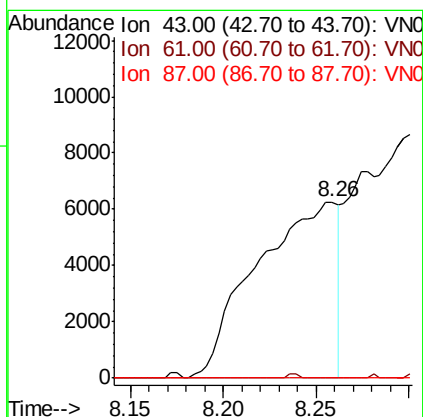
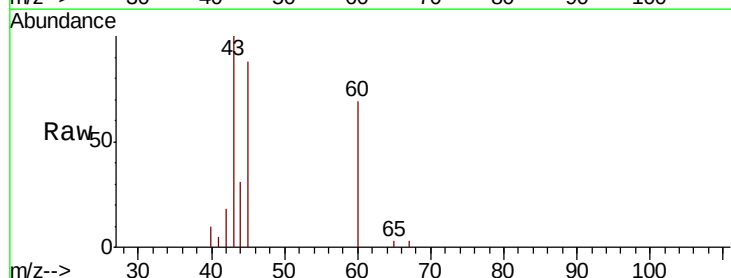
Instrument :
MSVOA_N
ClientSampleId :

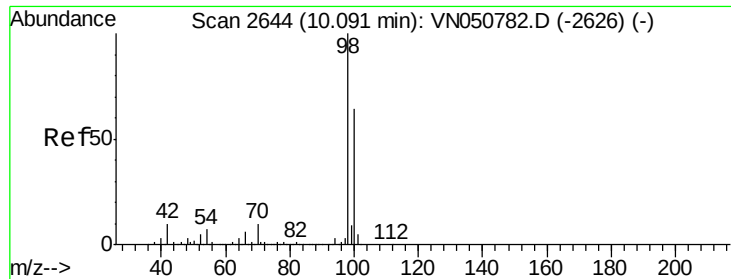
Tot Ion	Ratio	Lower	Upper
41	100		
39	45.5	45.4	68.0
67	0.0	70.6	106.0#
52	0.1	27.1	40.7#



#43
Isopropyl Acetate
Concen: 1.55 ug/l
RT: 8.26 min Scan# 2074
Delta R.T. 0.09 min
Lab File: VN050845.D
Acq: 23 Aug 2018 11:54

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	17.5	26.3#
87	0.0	11.3	16.9#





#50

Toluene-d8

Concen: 46.58 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050845.D

Acq: 23 Aug 2018 11:54

Instrument :

MSVOA_N

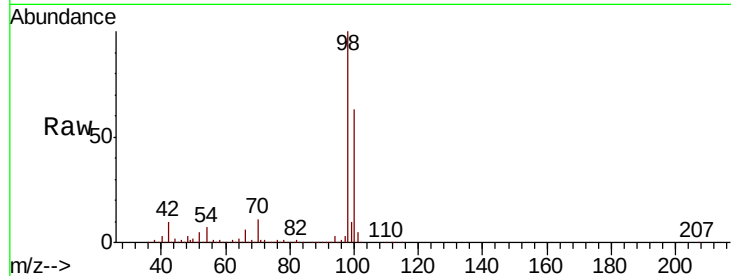
ClientSampled :

Tot Ion: 98 Resp: 1453629

Ion Ratio Lower Upper

98 100

100 63.6 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN050782.D (-2626) (-)

Ion 100.00 (99.70 to 100.70): VN050782.D (-2626) (-)

10.09

800000

600000

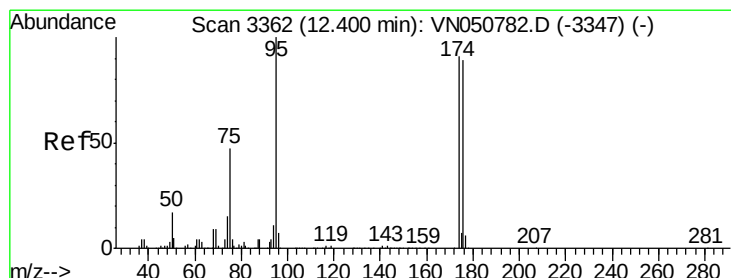
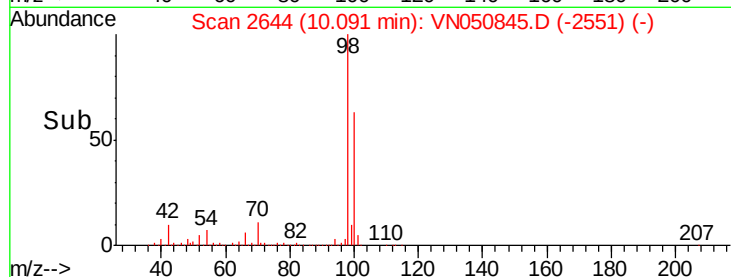
400000

200000

0

10.00 10.10 10.20

Time-->



#62

4-Bromofluorobenzene

Concen: 39.10 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050845.D

Acq: 23 Aug 2018 11:54

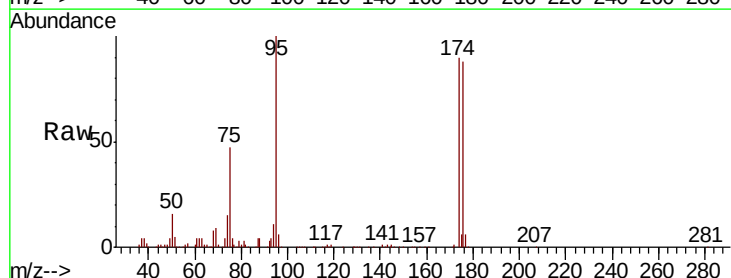
Tgt Ion: 95 Resp: 405481

Ion Ratio Lower Upper

95 100

174 91.7 0.0 183.0

176 87.4 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

300000

250000

200000

150000

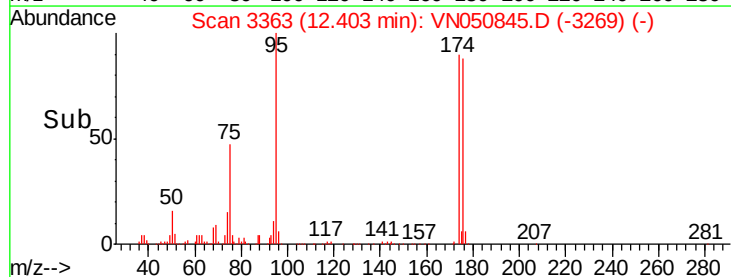
100000

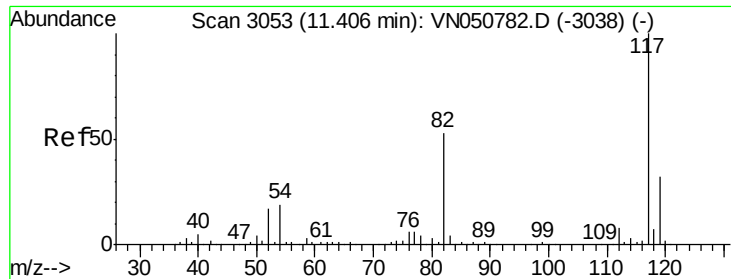
50000

0

12.30 12.40 12.50

Time-->

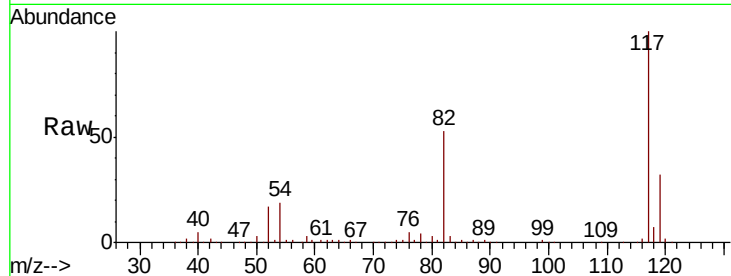




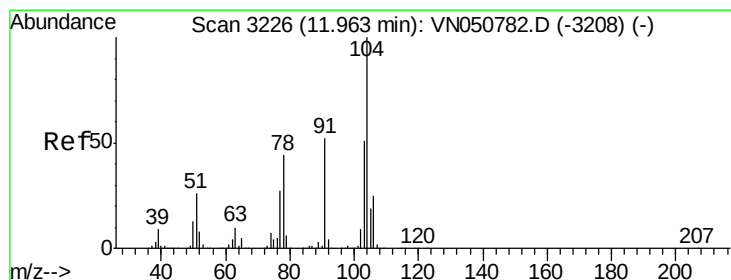
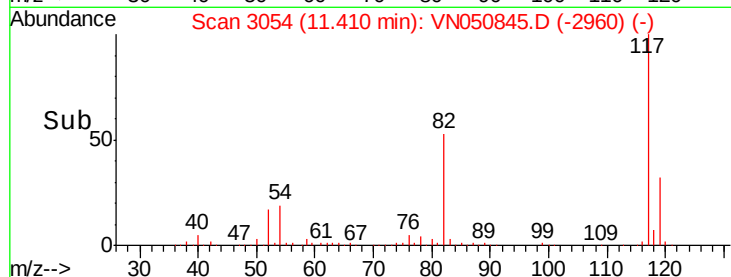
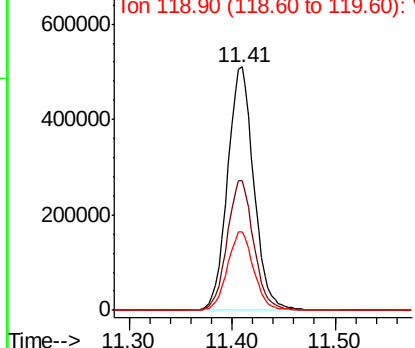
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050845.D
Acq: 23 Aug 2018 11:54

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 906628
Ion Ratio Lower Upper
117 100
82 53.1 42.6 64.0
119 32.4 25.8 38.6

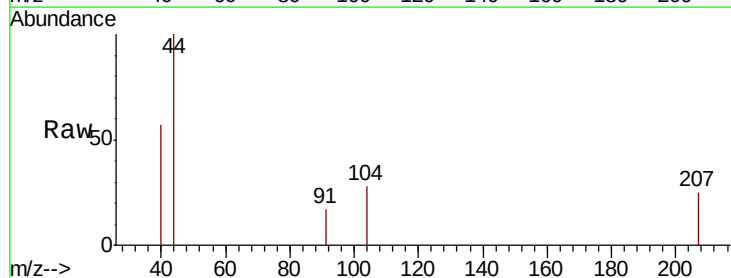


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V

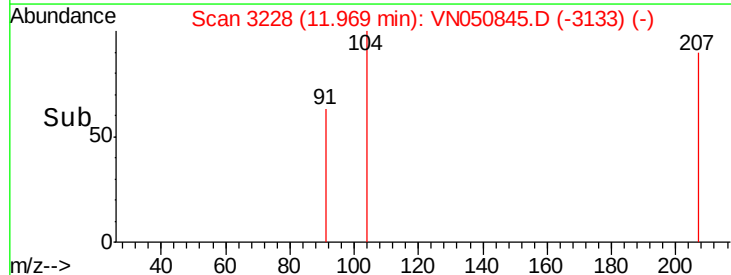
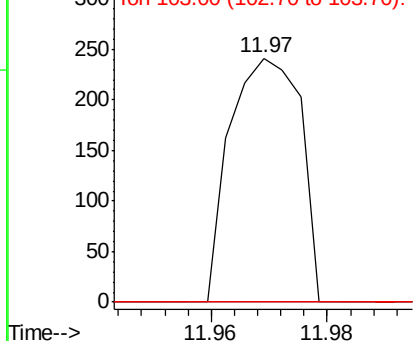


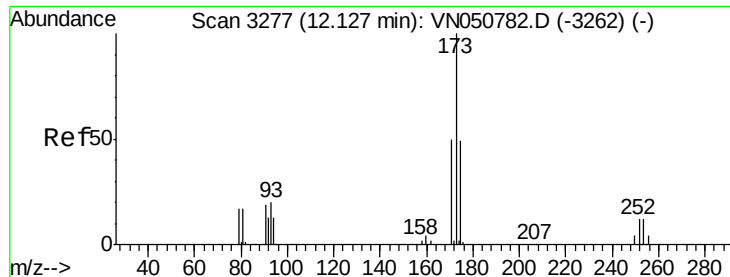
#70
Styrene
Concen: 1.28 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.01 min
Lab File: VN050845.D
Acq: 23 Aug 2018 11:54

Tgt Ion:104 Resp: 203
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): VN0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.28 ug/l

RT: 12.40 min Scan# 3361

Delta R.T. 0.27 min

Lab File: VN050845.D

Acq: 23 Aug 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

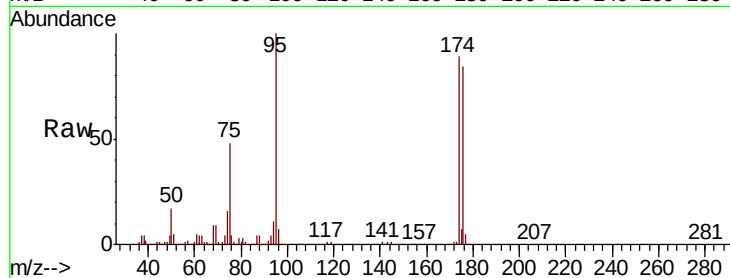
Tot Ion:173 Resp: 1649

Ion Ratio Lower Upper

173 100

175 1350.6 24.4 73.4#

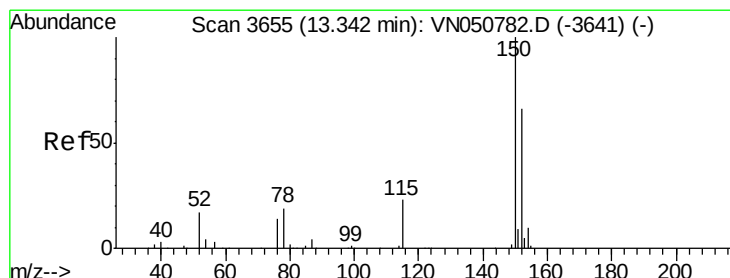
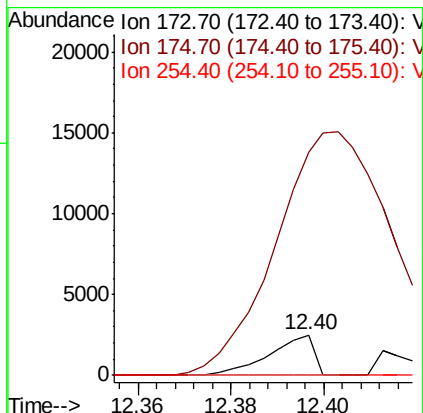
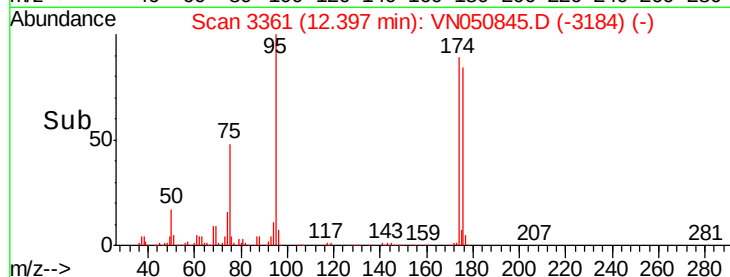
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050845.D

Acq: 23 Aug 2018 11:54

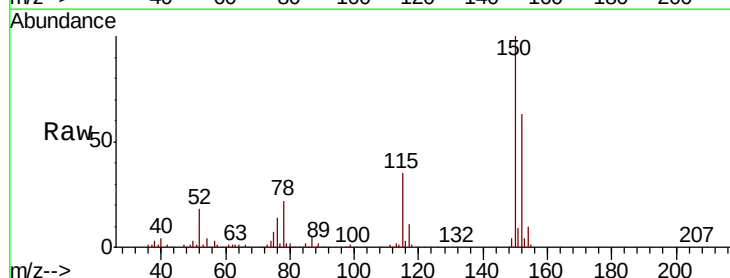
Tgt Ion:152 Resp: 307819

Ion Ratio Lower Upper

152 100

115 56.4 27.8 83.4

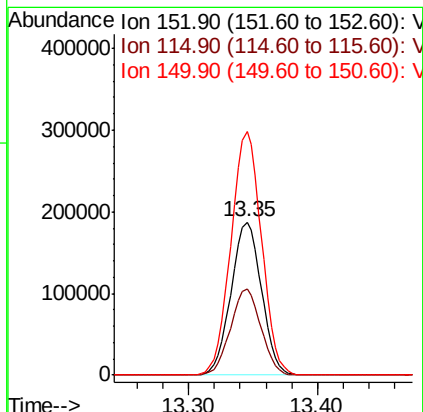
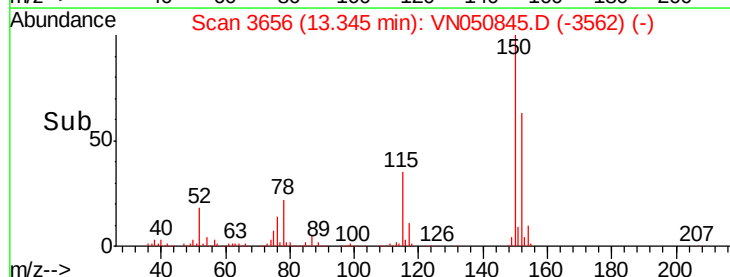
150 159.2 0.0 351.4

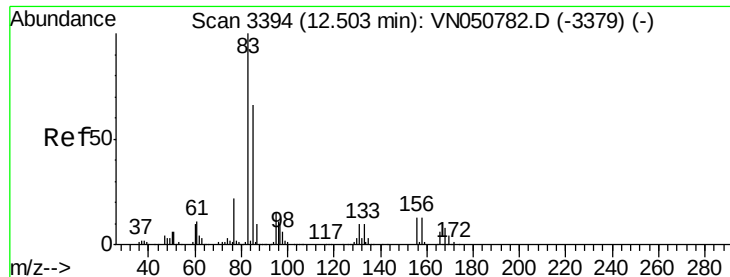


Abundance Ion 151.90 (151.60 to 152.60): V

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# 3362

Delta R.T. -0.10 min

Lab File: VN050845.D

Acq: 23 Aug 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

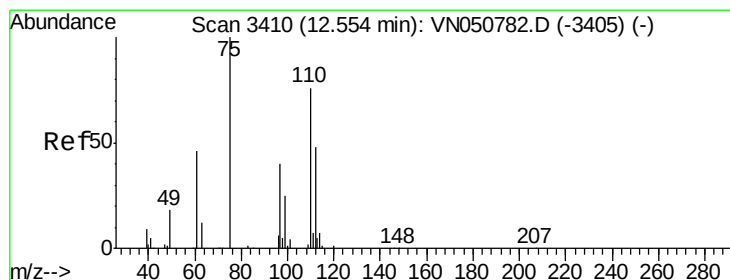
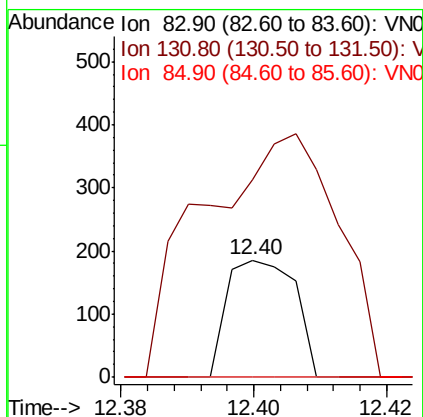
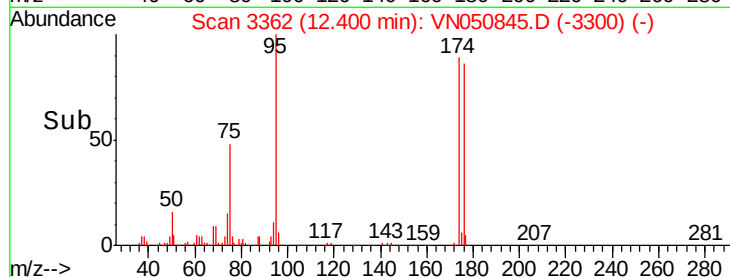
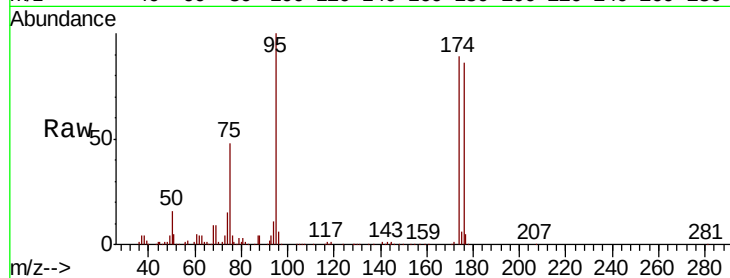
Tot Ion: 83 Resp: 132

Ion Ratio Lower Upper

83 100

131 416.7 5.3 15.9#

85 0.0 31.9 95.7#



#76

1,2,3-Trichloropropane

Concen: 35.39 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050845.D

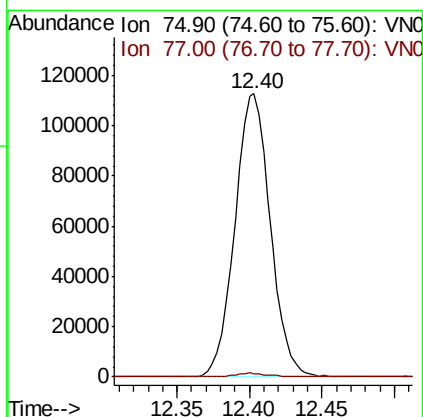
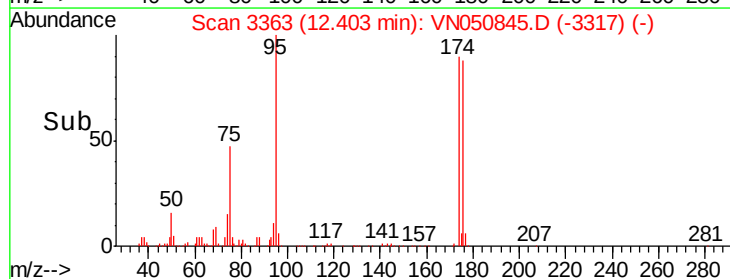
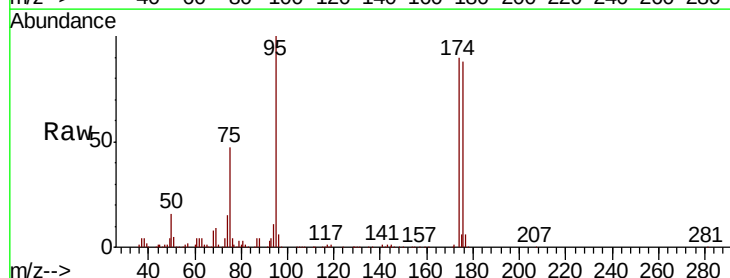
Acq: 23 Aug 2018 11:54

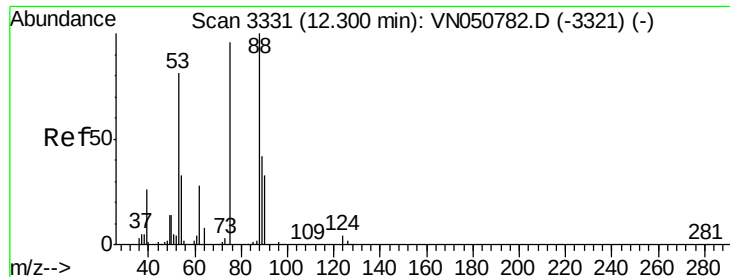
Tgt Ion: 75 Resp: 190794

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 119.63 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050845.D

Acq: 23 Aug 2018 11:54

Instrument :

MSVOA_N

ClientSampled :

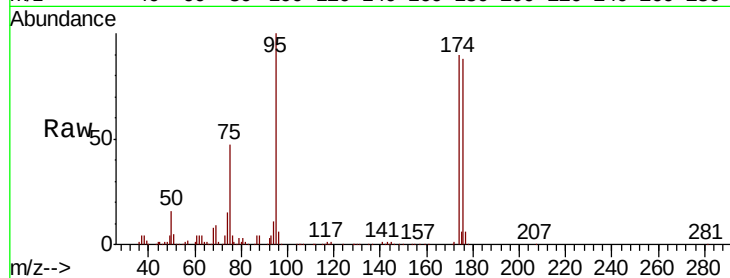
Tot Ion: 75 Resp: 190794

Ion Ratio Lower Upper

75 100

53 0.2 68.9 103.3#

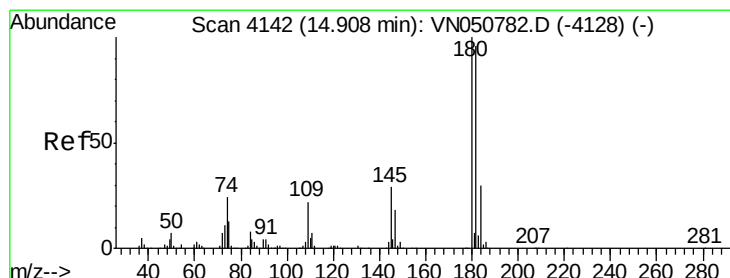
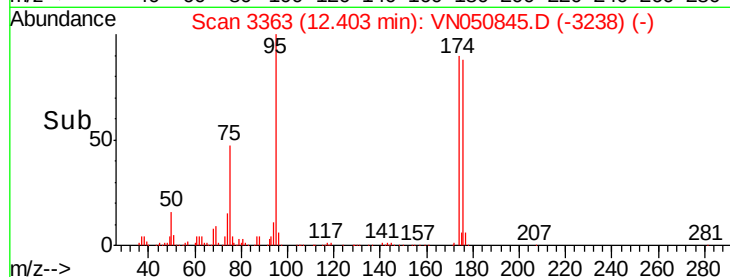
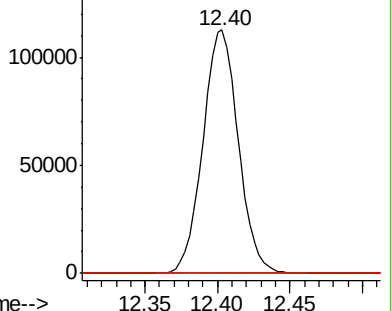
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN050782.D (-3321) (-)

Ion 53.00 (52.70 to 53.70): VN050782.D (-3321) (-)

Ion 88.90 (88.60 to 89.60): VN050782.D (-3321) (-)



#93

1,2,4-Trichlorobenzene

Concen: 4.10 ug/l

RT: 14.90 min Scan# 4141

Delta R.T. -0.00 min

Lab File: VN050845.D

Acq: 23 Aug 2018 11:54

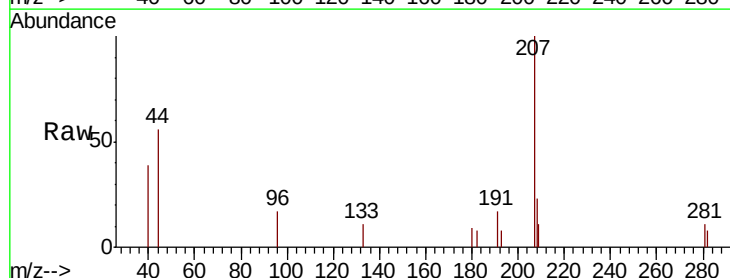
Tgt Ion: 180 Resp: 95

Ion Ratio Lower Upper

180 100

182 97.9 48.2 144.6

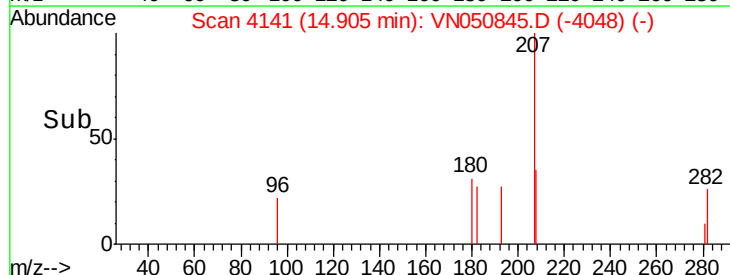
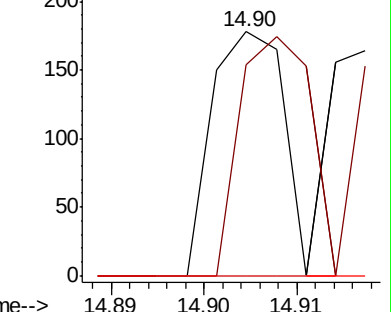
145 0.0 14.1 42.2#

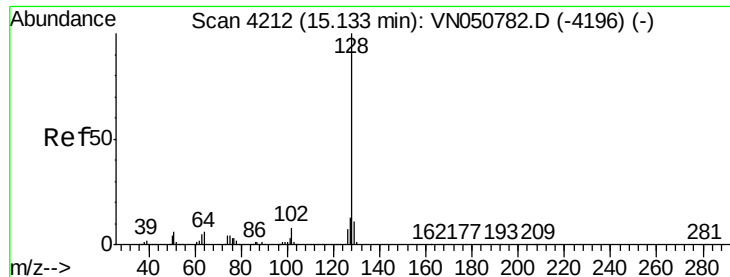


Abundance Ion 179.80 (179.50 to 180.50): VN050782.D (-4128) (-)

Ion 181.80 (181.50 to 182.50): VN050782.D (-4128) (-)

Ion 144.80 (144.50 to 145.50): VN050782.D (-4128) (-)





#95

Naphthalene

Concen: 5.45 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN050845.D

Acq: 23 Aug 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

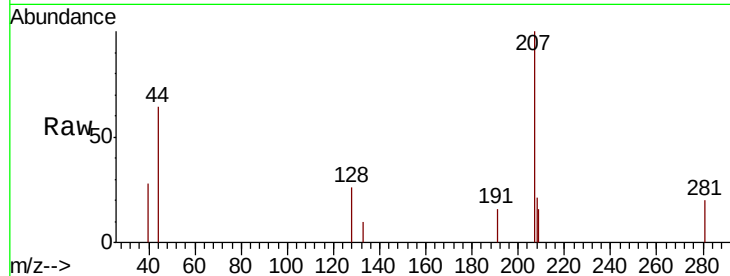
Tot Ion:128 Resp: 724

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

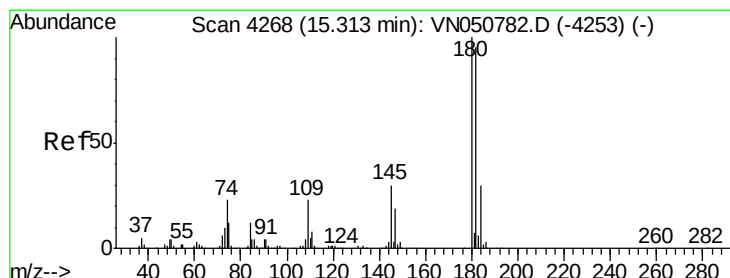
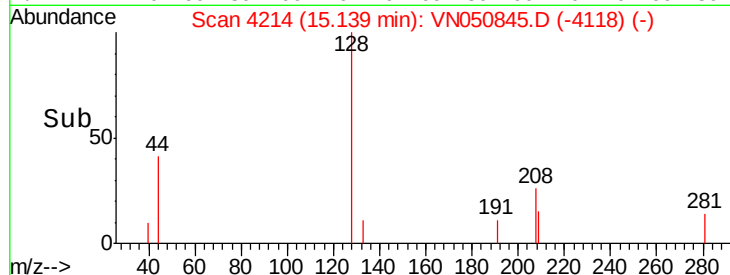
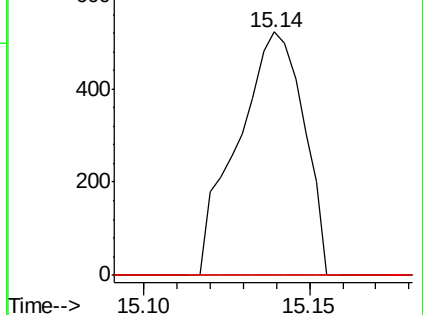
129 0.0 8.7 13.1#



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: 3.34 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. 0.00 min

Lab File: VN050845.D

Acq: 23 Aug 2018 11:54

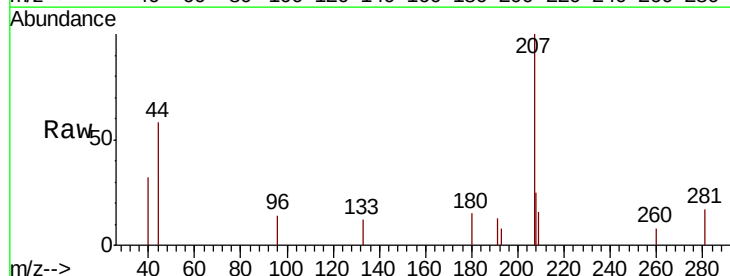
Tgt Ion:180 Resp: 254

Ion Ratio Lower Upper

180 100

182 0.0 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

