

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082318\
 Data File : VN050857.D
 Acq On : 23 Aug 2018 17:01
 Operator : MD\SY
 Sample : J4617-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 24 01:12:50 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	607305	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	970519	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	804230	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	292178	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	396220	54.19	ug/l	0.00
Spiked Amount			Recovery	=	108.38%	
35) Dibromofluoromethane	7.59	113	374478	48.50	ug/l	0.00
Spiked Amount			Recovery	=	97.00%	
50) Toluene-d8	10.09	98	1331711	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	
62) 4-Bromofluorobenzene	12.40	95	367042	38.26	ug/l	0.00
Spiked Amount			Recovery	=	76.52%	

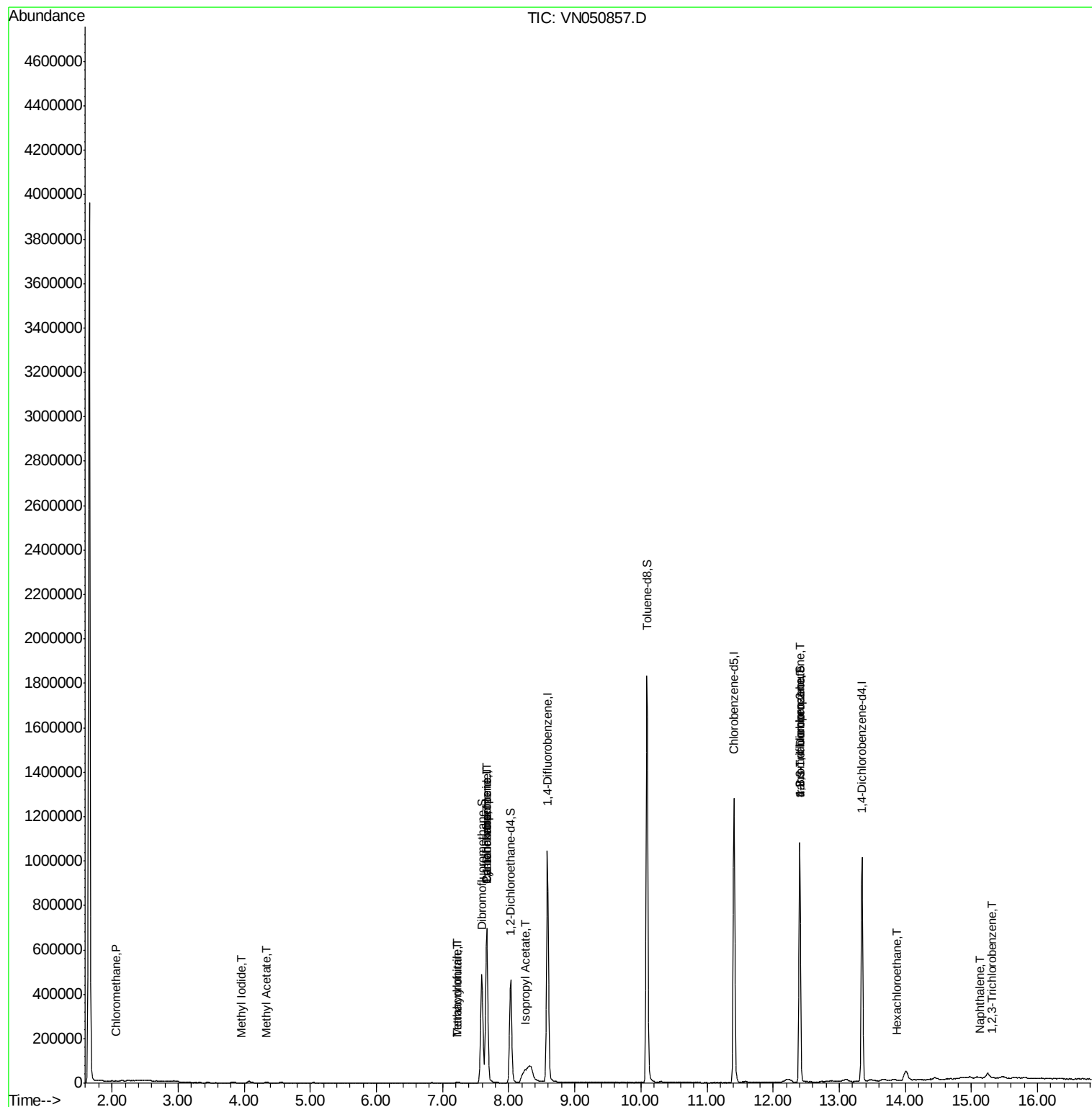
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2385	0.24	ug/l	92
5) Bromomethane	2.57	94	2278	Below Cal		85
10) Methyl Iodide	3.95	142	30	6.34	ug/l #	43
16) Acetone	3.83	43	7027	Below Cal	#	76
18) Methyl Acetate	4.34	43	4177	0.61	ug/l	91
29) Tetrahydrofuran	7.21	42	1847	1.09	ug/l #	64
31) Cyclohexane	7.67	56	10568	1.31	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	39646	3.46	ug/l #	49
38) Carbon Tetrachloride	7.67	117	53423	4.61	ug/l #	16
41) Methacrylonitrile	7.22	41	1366	0.38	ug/l #	18
43) Isopropyl Acetate	8.25	43	66160	5.85	ug/l #	59
75) 1,1,2,2-Tetrachloroethane	12.53	83	298	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	172739	33.75	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	172739	114.11	ug/l #	15
90) Hexachloroethane	13.87	117	196	0.24	ug/l #	4
95) Naphthalene	15.14	128	548	5.44	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.32	180	30	3.30	ug/l #	12

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050857.D

Acq: 23 Aug 2018 17:01

Instrument :

MSVOA_N

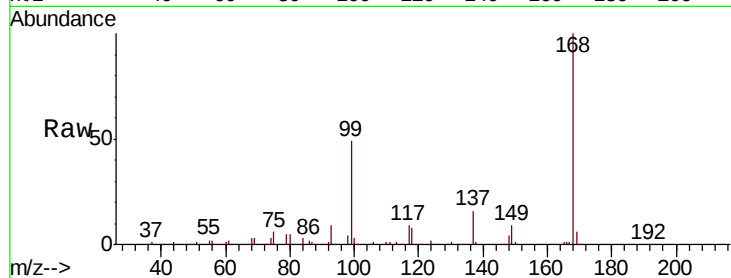
ClientSampleId :

Tot Ion:168 Resp: 607305

Ion Ratio Lower Upper

168 100

99 49.3 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN050857.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN050857.D (-1797) (-)

7.67

250000

200000

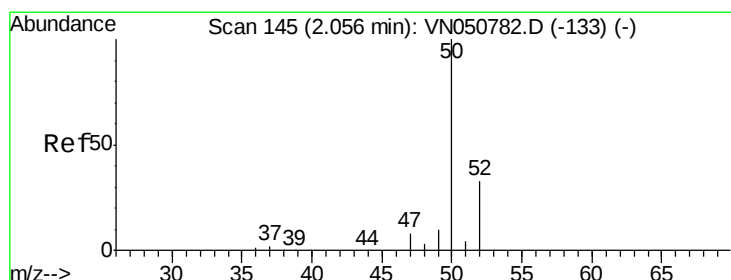
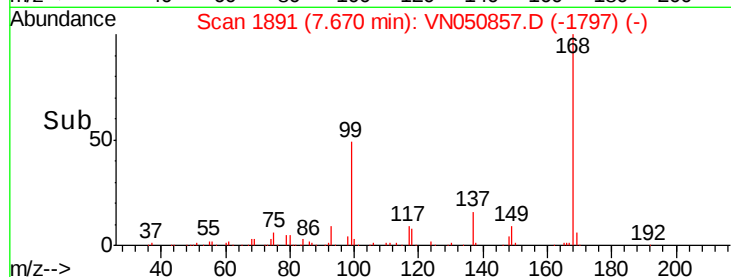
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.24 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050857.D

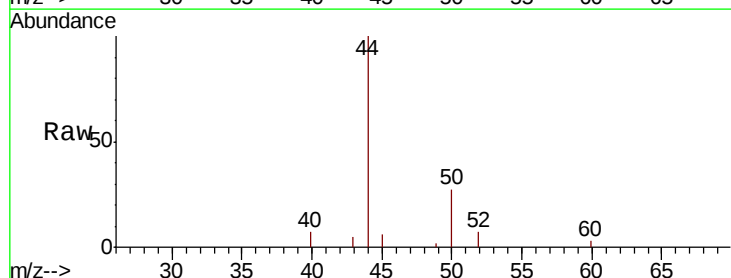
Acq: 23 Aug 2018 17:01

Tgt Ion: 50 Resp: 2385

Ion Ratio Lower Upper

50 100

52 28.1 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN050857.D (-52) (-)

Ion 51.90 (51.60 to 52.60): VN050857.D (-52) (-)

2.06

2000

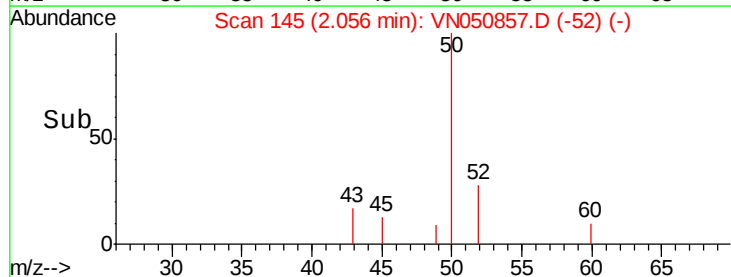
1500

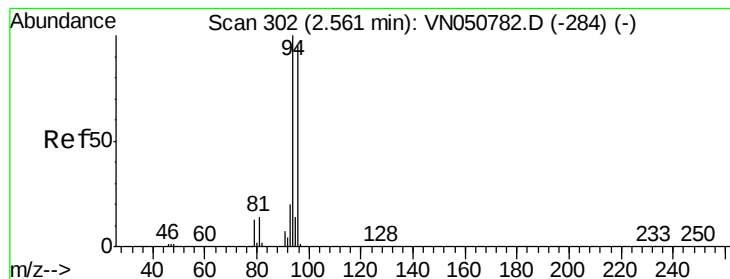
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050857.D

Acq: 23 Aug 2018 17:01

Instrument :

MSVOA_N

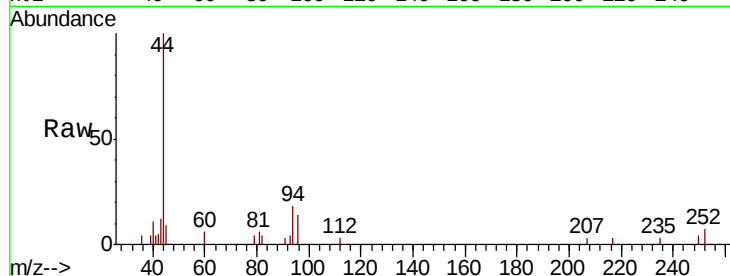
ClientSampled :

Tot Ion: 94 Resp: 2278

Ion Ratio Lower Upper

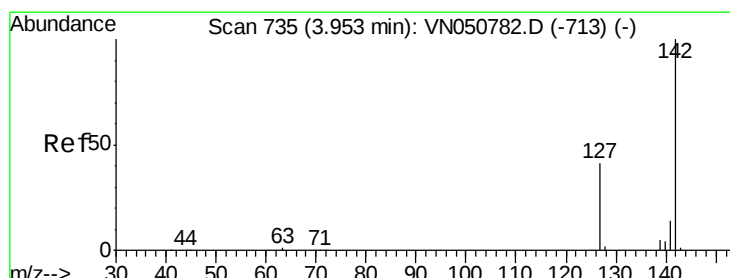
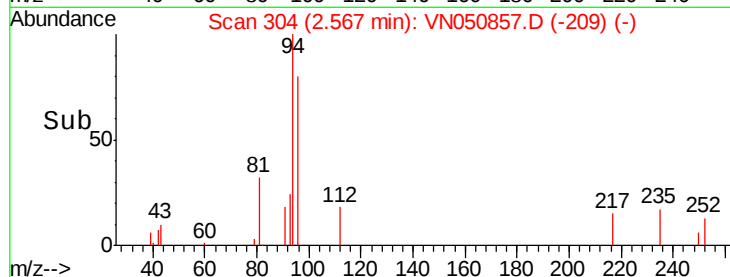
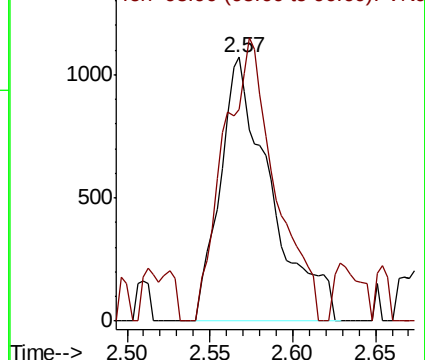
94 100

96 80.1 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050857.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050857.D (-284) (-)



#10

Methyl Iodide

Concen: 6.34 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.00 min

Lab File: VN050857.D

Acq: 23 Aug 2018 17:01

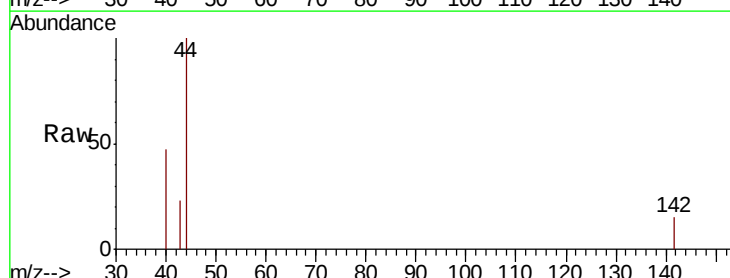
Tgt Ion: 142 Resp: 30

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

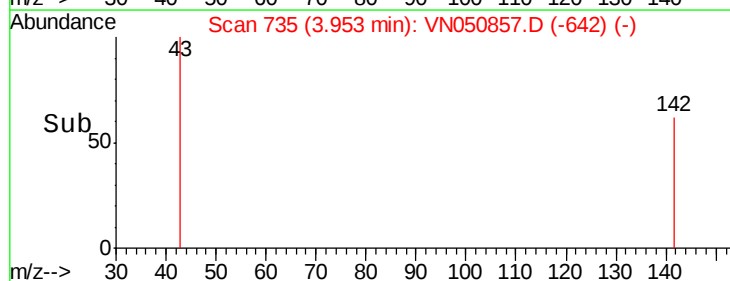
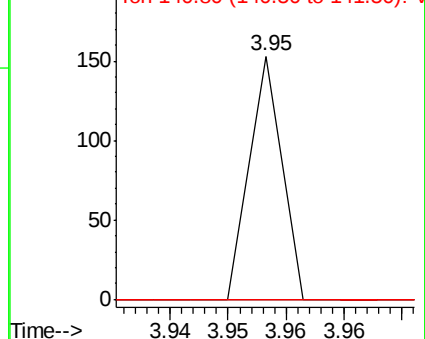
141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050857.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050857.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050857.D (-713) (-)





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050857.D

Acq: 23 Aug 2018 17:01

Instrument :

MSVOA_N

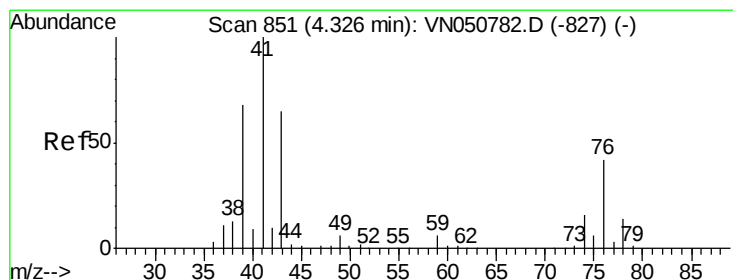
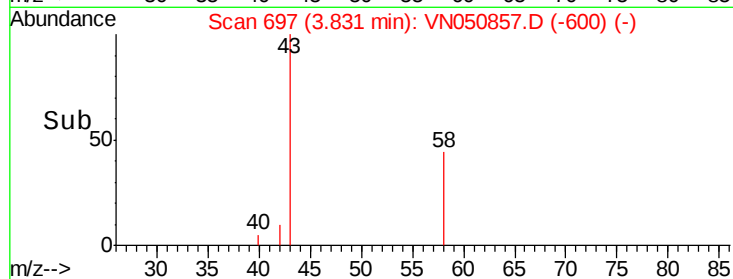
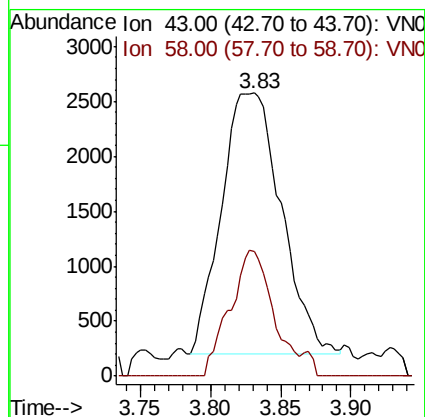
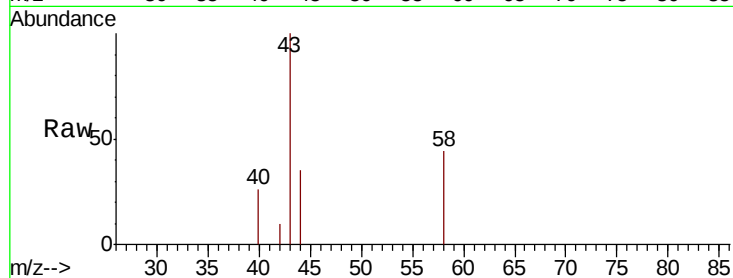
ClientSampled :

Tot Ion: 43 Resp: 7027

Ion Ratio Lower Upper

43 100

58 47.9 27.2 40.8#



#18

Methyl Acetate

Concen: 0.61 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050857.D

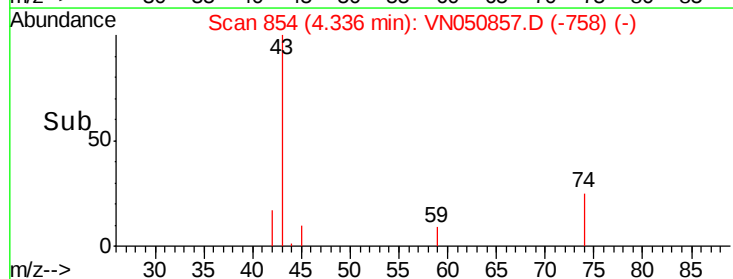
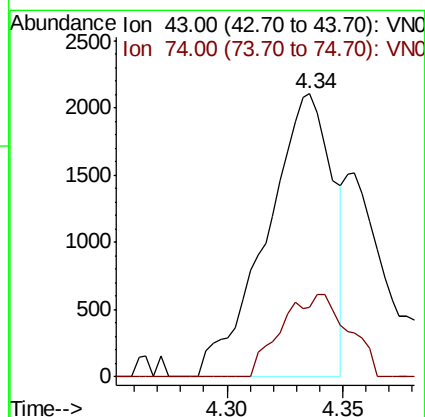
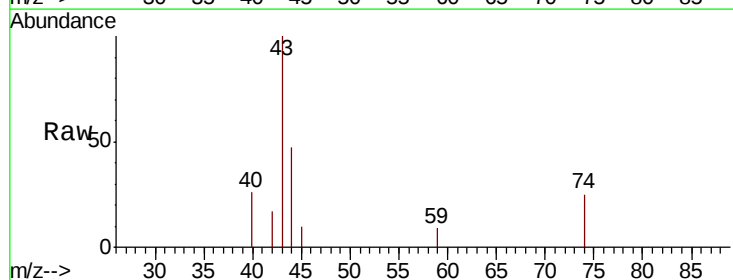
Acq: 23 Aug 2018 17:01

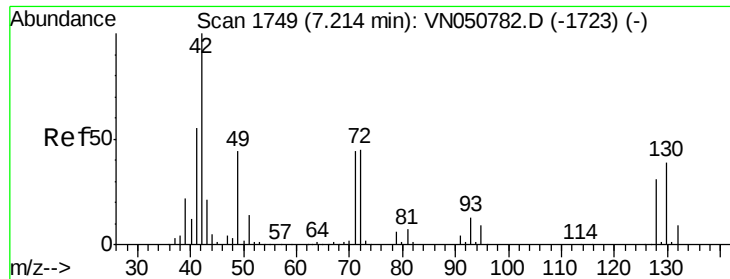
Tgt Ion: 43 Resp: 4177

Ion Ratio Lower Upper

43 100

74 29.2 19.8 29.8





#29

Tetrahydrofuran

Concen: 1.09 ug/l

RT: 7.21 min Scan# 1749

Delta R.T. -0.00 min

Lab File: VN050857.D

Acq: 23 Aug 2018 17:01

Instrument :
MSVOA_N
ClientSampleId :

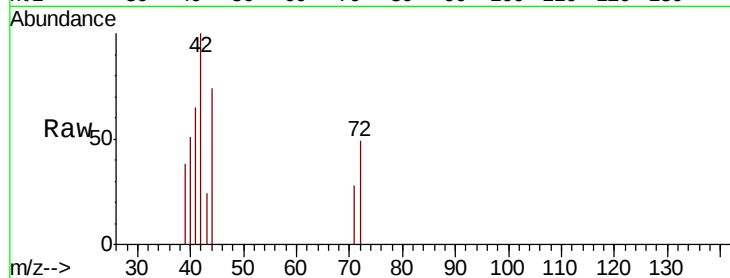
Tot Ion: 42 Resp: 1847

Ion Ratio Lower Upper

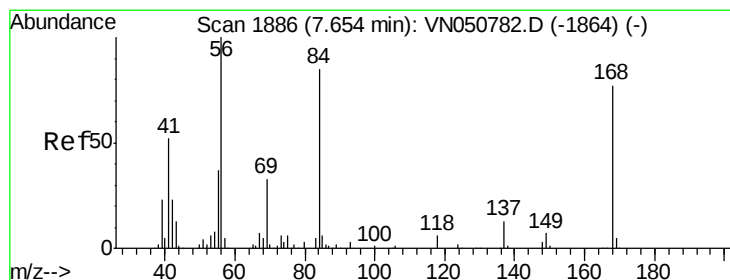
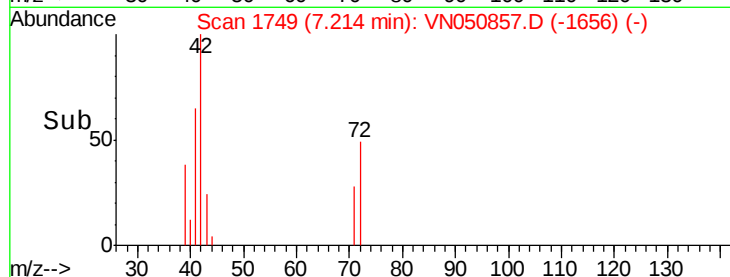
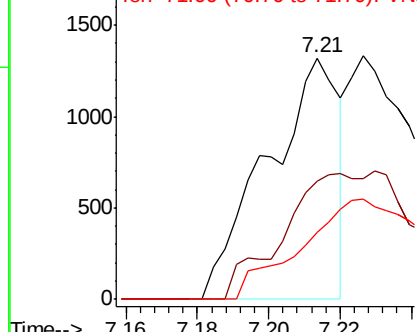
42 100

72 58.0 35.5 53.3#

71 74.6 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: 1.31 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050857.D

Acq: 23 Aug 2018 17:01

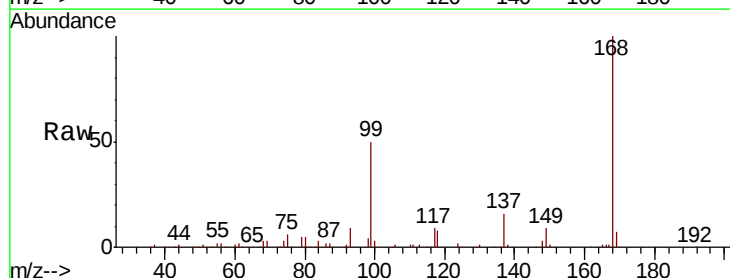
Tgt Ion: 56 Resp: 10568

Ion Ratio Lower Upper

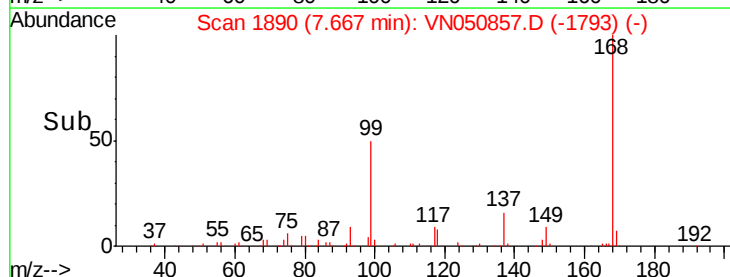
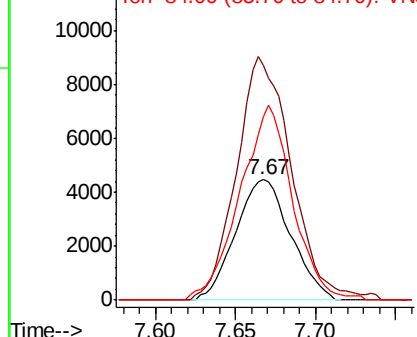
56 100

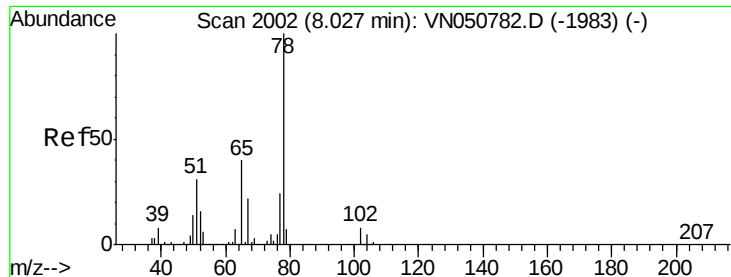
69 195.0 26.2 39.4#

84 147.9 68.3 102.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

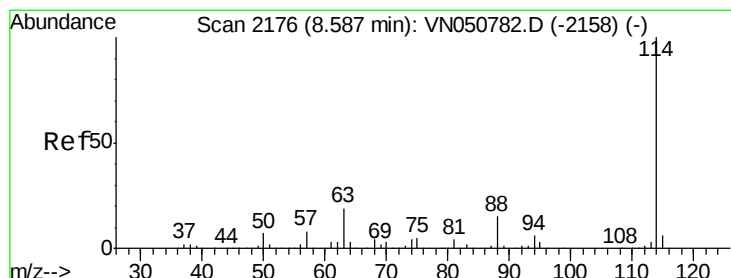
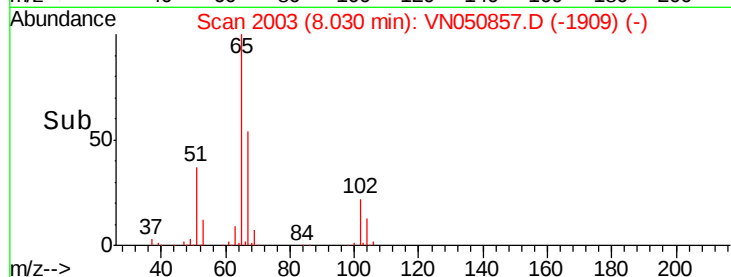
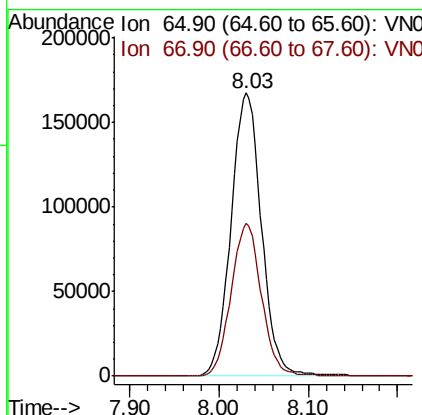
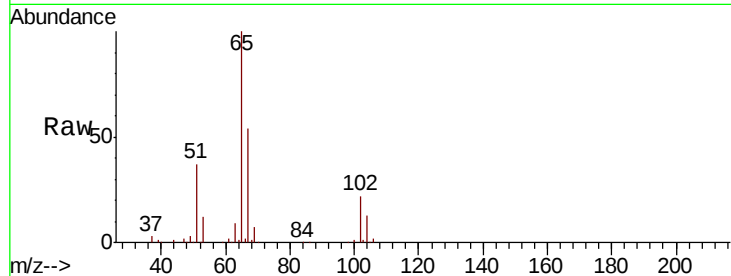




#33
 1,2-Dichloroethane-d4
 Concen: 54.19 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050857.D
 Acq: 23 Aug 2018 17:01

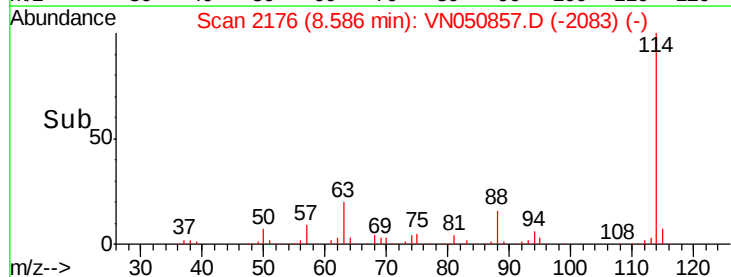
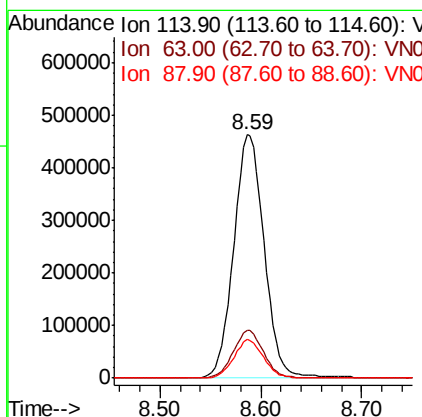
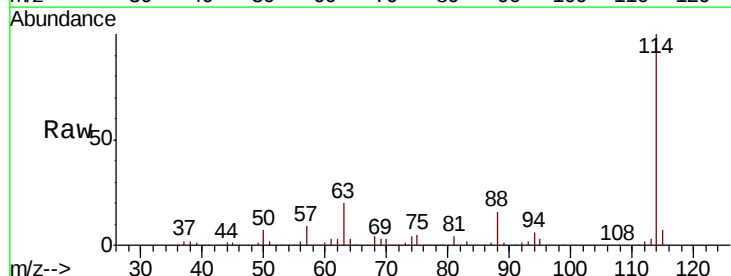
Instrument :
 MSVOA_N
 ClientSampleId :

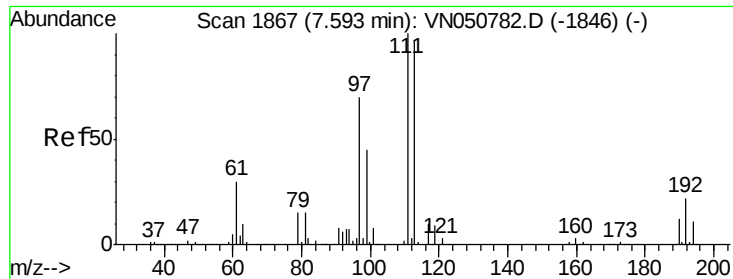
Tot Ion: 65 Resp: 396220
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050857.D
 Acq: 23 Aug 2018 17:01

Tgt Ion: 114 Resp: 970519
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 38.6
 88 15.7 0.0 30.6

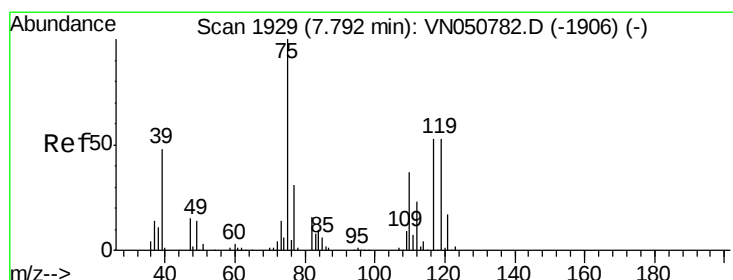
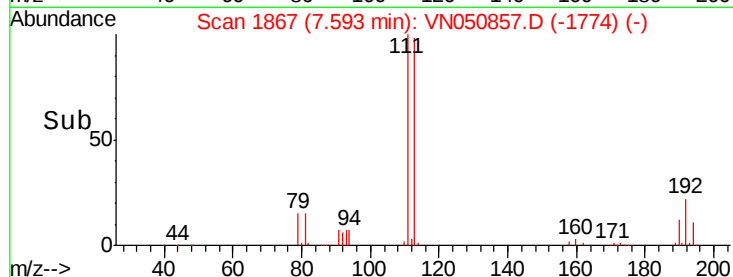
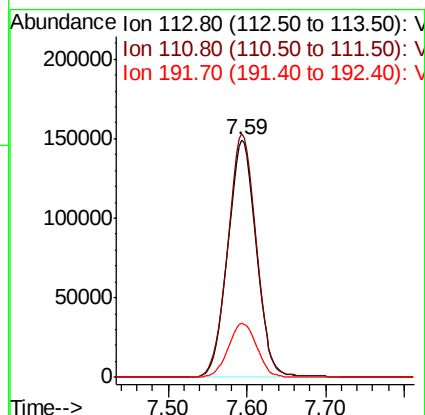
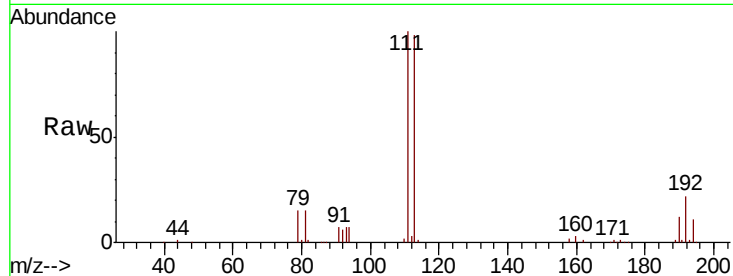




#35
 Dibromofluoromethane
 Concen: 48.50 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050857.D
 Acq: 23 Aug 2018 17:01

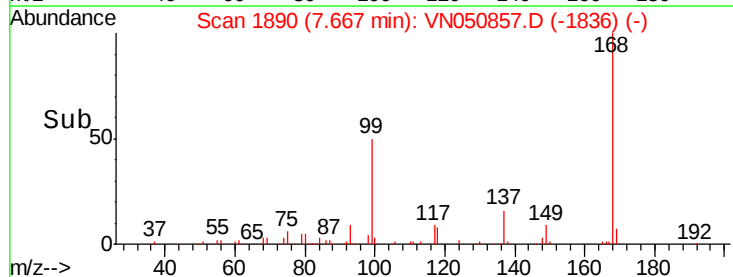
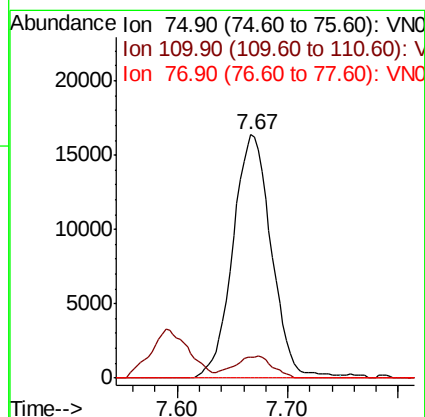
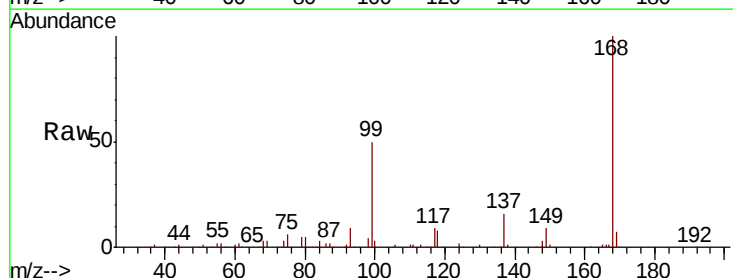
Instrument :
 MSVOA_N
 ClientSampleId :

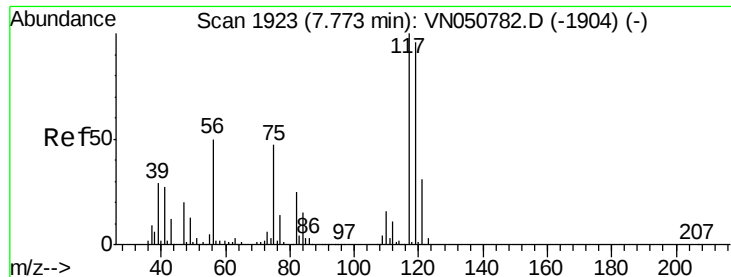
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.6	123.8
192	22.7	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.46 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050857.D
 Acq: 23 Aug 2018 17:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.1	54.4#
77	0.0	24.8	37.2#

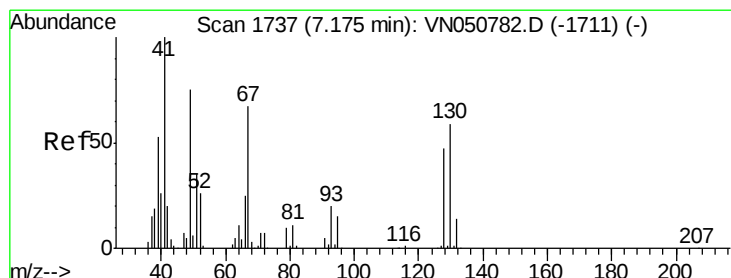
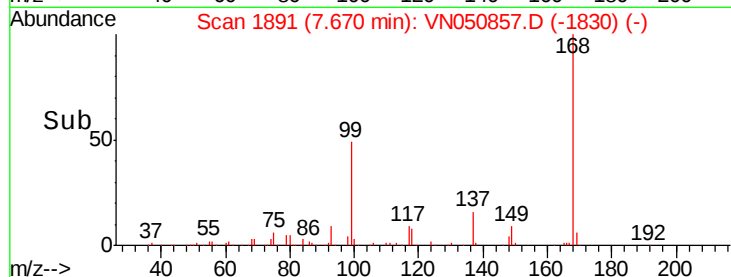
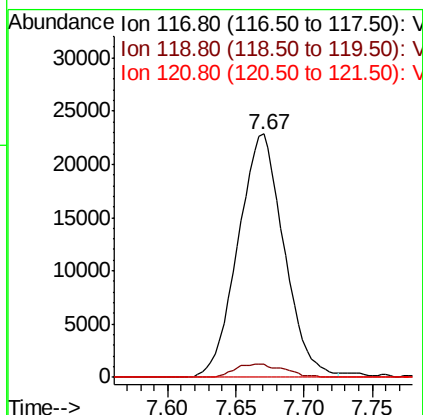
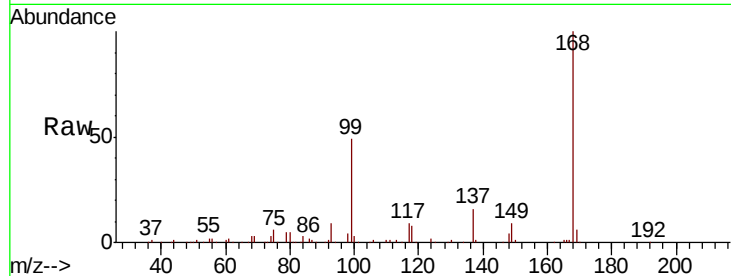




#38
Carbon Tetrachloride
Concen: 4.61 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.10 min
Lab File: VN050857.D
Acq: 23 Aug 2018 17:01

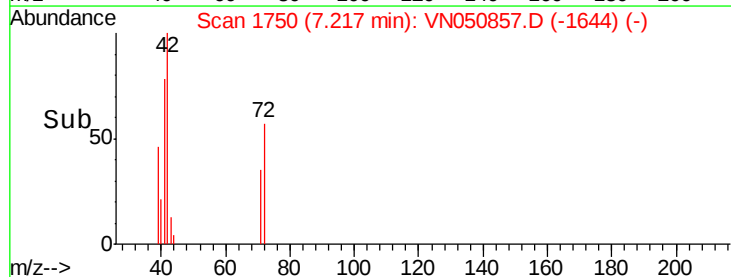
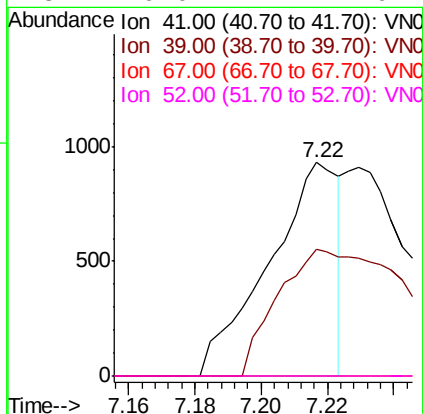
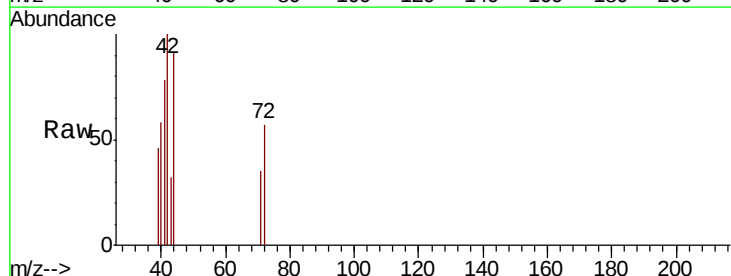
Instrument :
MSVOA_N
ClientSampleId :

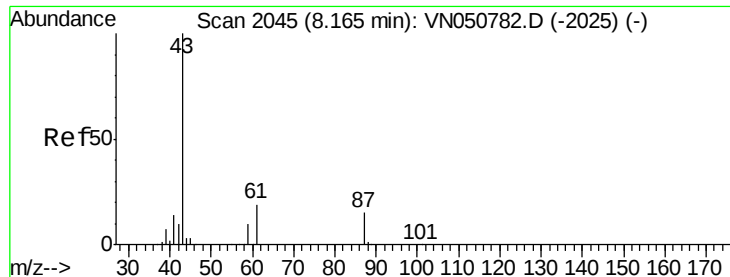
Tot Ion:117 Resp: 53423
Ion Ratio Lower Upper
117 100
119 5.3 76.3 114.5#
121 0.0 24.6 36.8#



#41
Methacrylonitrile
Concen: 0.38 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.04 min
Lab File: VN050857.D
Acq: 23 Aug 2018 17:01

Tgt Ion: 41 Resp: 1366
Ion Ratio Lower Upper
41 100
39 111.3 45.4 68.0#
67 0.0 70.6 106.0#
52 0.0 27.1 40.7#





#43

Isopropyl Acetate

Concen: 5.85 ug/l

RT: 8.25 min Scan# 2070

Delta R.T. 0.08 min

Lab File: VN050857.D

Acq: 23 Aug 2018 17:01

Instrument :

MSVOA_N

ClientSampleId :

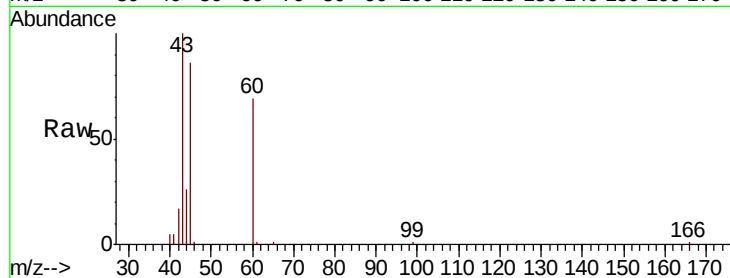
Tot Ion: 43 Resp: 66160

Ion Ratio Lower Upper

43 100

61 0.4 17.5 26.3#

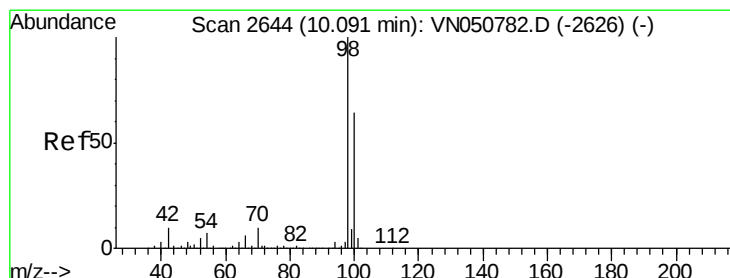
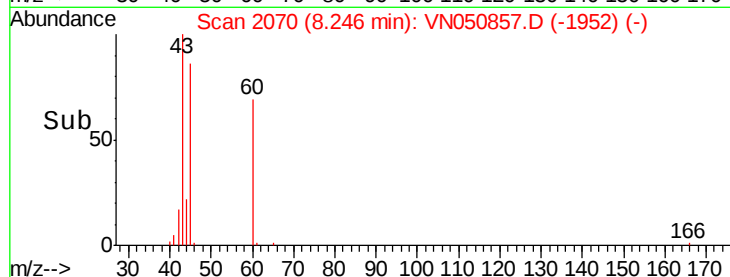
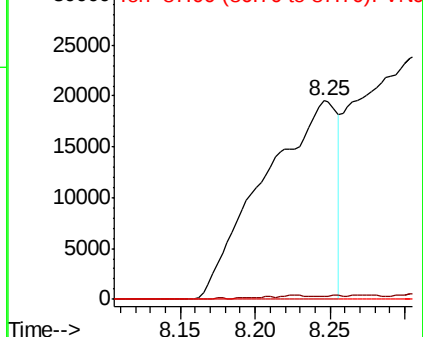
87 0.0 11.3 16.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 46.13 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050857.D

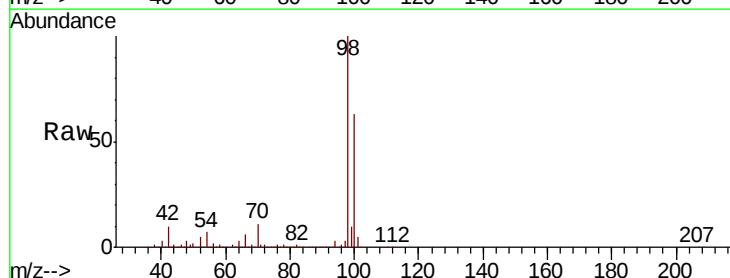
Acq: 23 Aug 2018 17:01

Tgt Ion: 98 Resp: 1331711

Ion Ratio Lower Upper

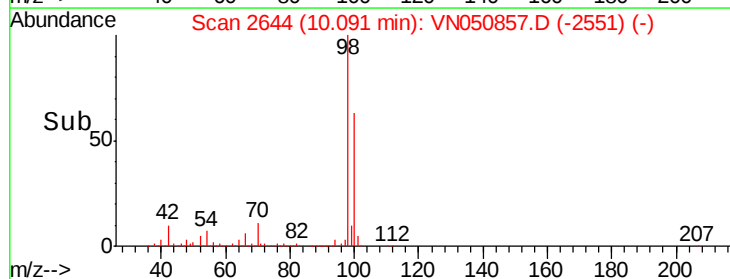
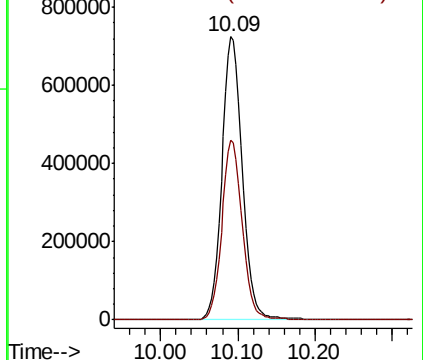
98 100

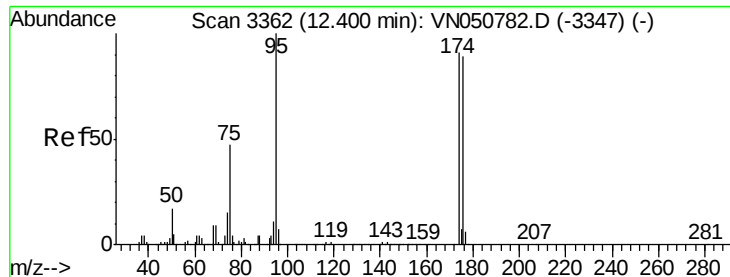
100 63.4 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

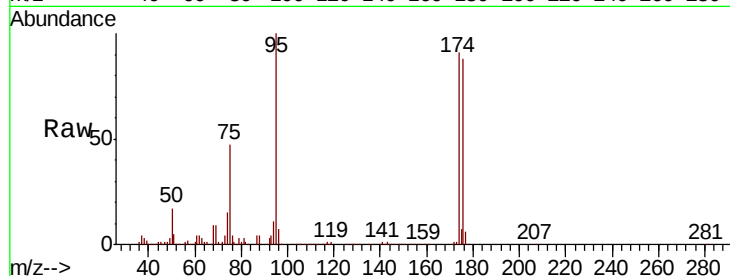




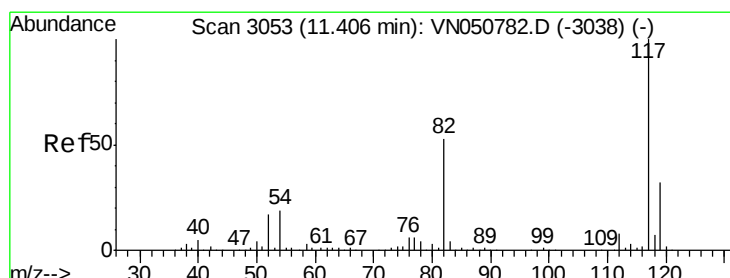
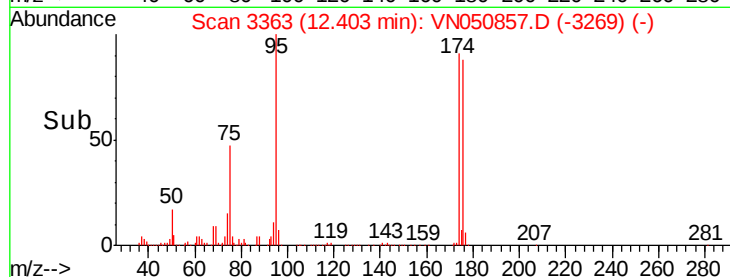
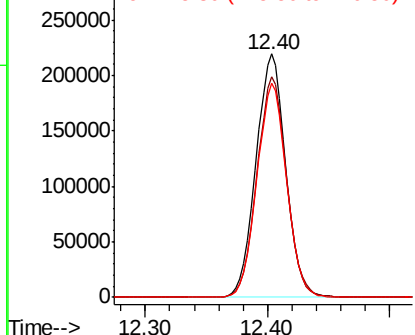
#62
4-Bromofluorobenzene
Concen: 38.26 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050857.D
Acq: 23 Aug 2018 17:01

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 95 Resp: 367042
Ion Ratio Lower Upper
95 100
174 90.7 0.0 183.0
176 87.8 0.0 178.8

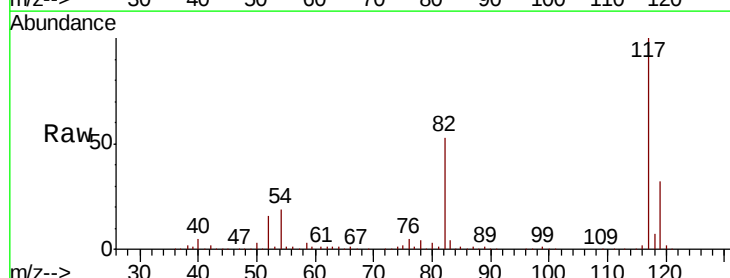


Abundance Ion 94.90 (94.60 to 95.60): VN0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

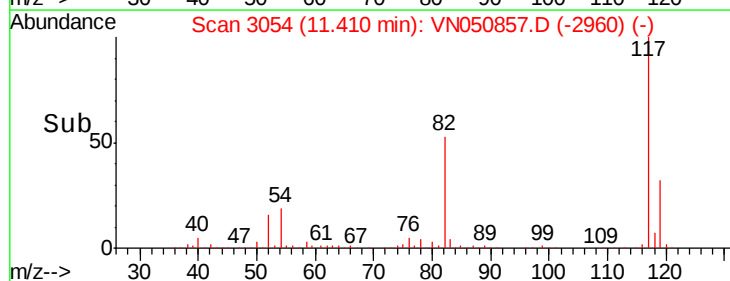
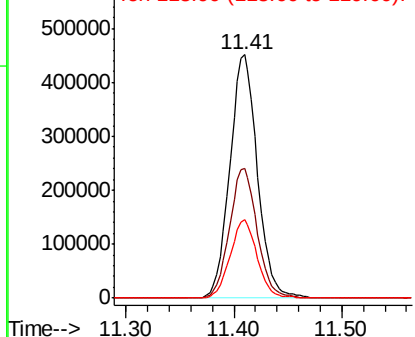


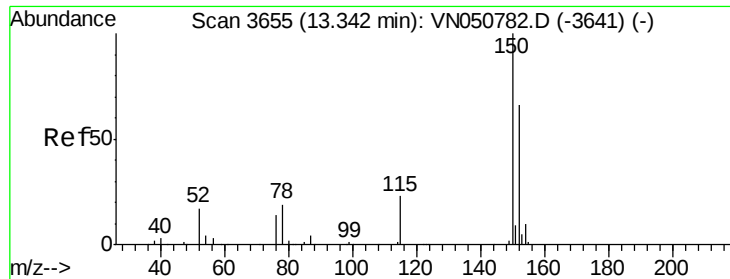
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050857.D
Acq: 23 Aug 2018 17:01

Tgt Ion: 117 Resp: 804230
Ion Ratio Lower Upper
117 100
82 53.1 42.6 64.0
119 32.1 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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050857.D

Acq: 23 Aug 2018 17:01

Instrument :

MSVOA_N

ClientSampled :

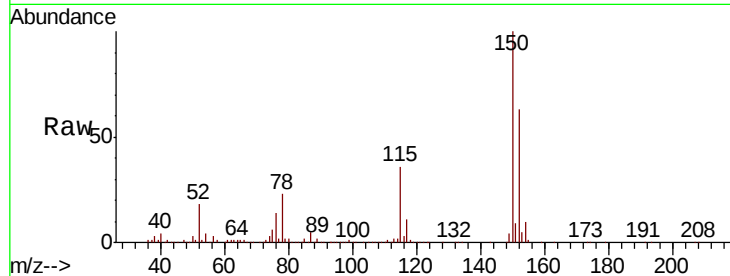
Tot Ion:152 Resp: 292178

Ion Ratio Lower Upper

152 100

115 56.4 27.8 83.4

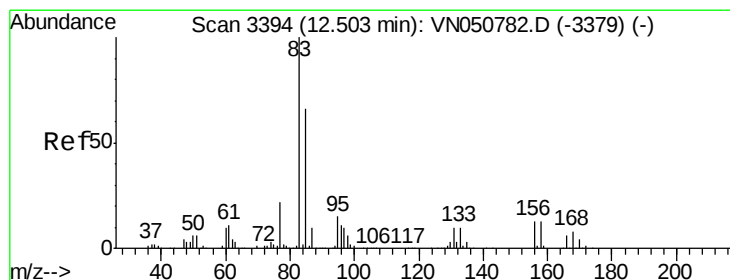
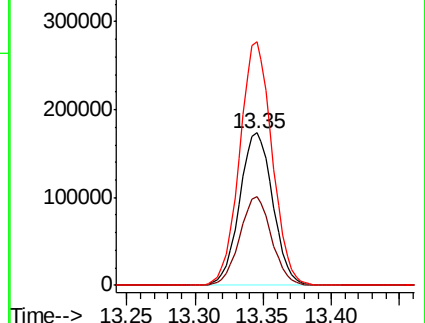
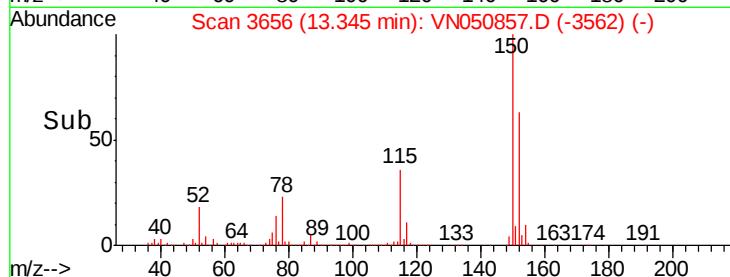
150 156.4 0.0 351.4



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.53 min Scan# 3402

Delta R.T. 0.03 min

Lab File: VN050857.D

Acq: 23 Aug 2018 17:01

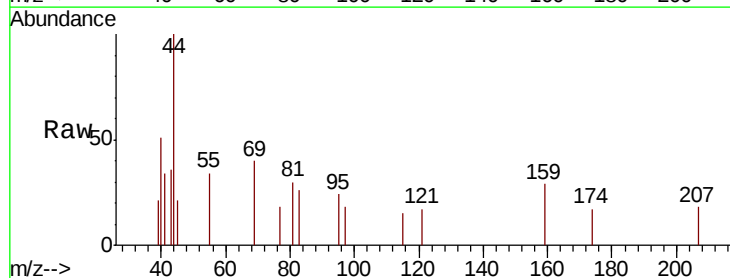
Tgt Ion: 83 Resp: 298

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

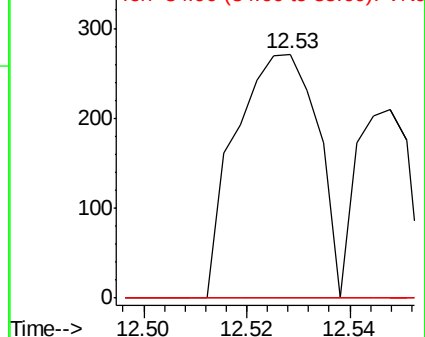
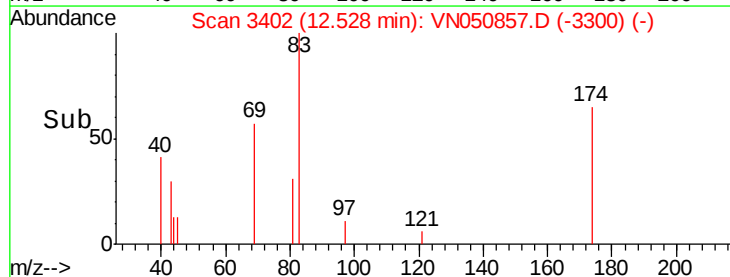
85 0.0 31.9 95.7#

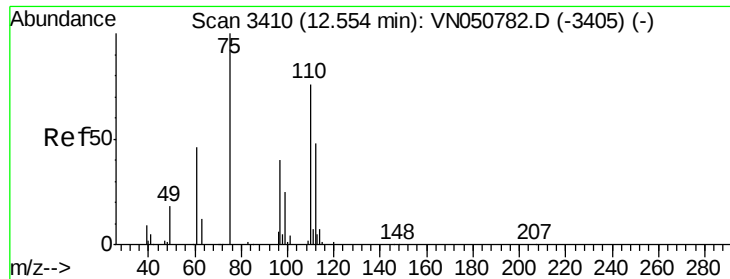


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 33.75 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050857.D

Acq: 23 Aug 2018 17:01

Instrument :

MSVOA_N

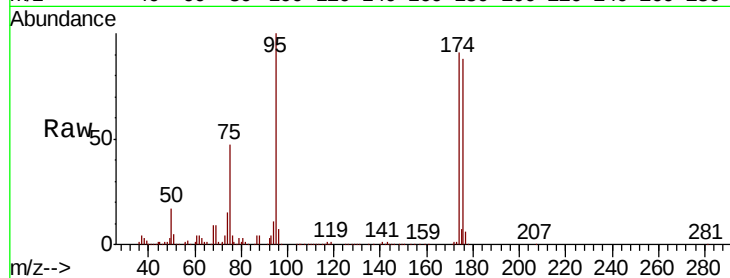
ClientSampleId :

Tot Ion: 75 Resp: 172739

Ion Ratio Lower Upper

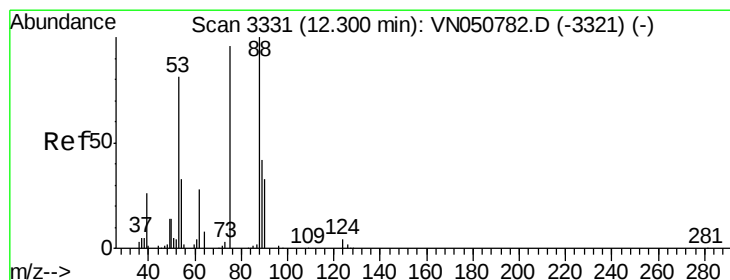
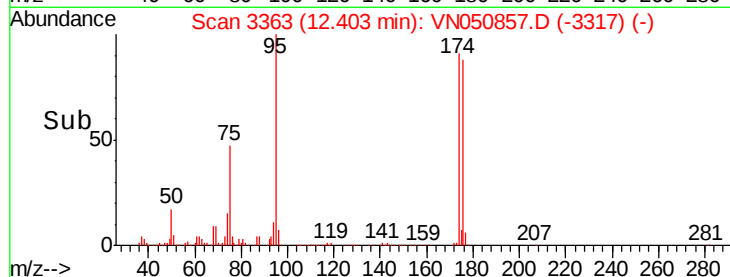
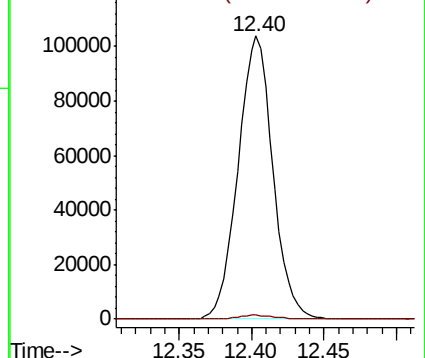
75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 114.11 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050857.D

Acq: 23 Aug 2018 17:01

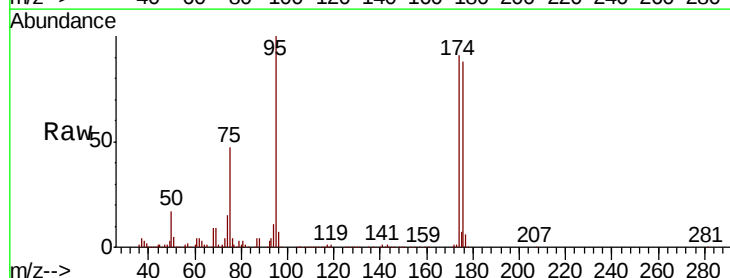
Tgt Ion: 75 Resp: 172739

Ion Ratio Lower Upper

75 100

53 0.3 68.9 103.3#

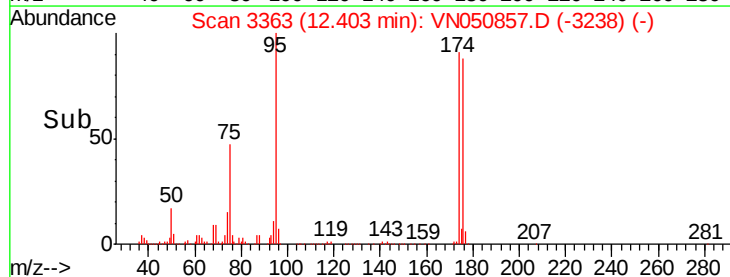
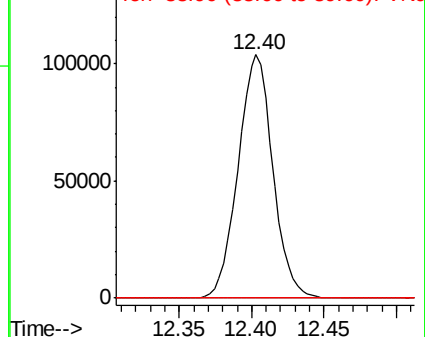
89 0.0 36.1 54.1#

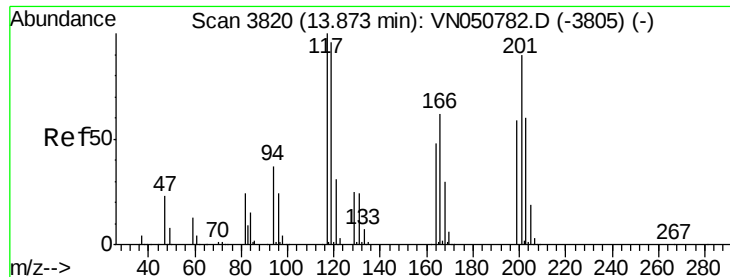


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#90

Hexachloroethane

Concen: 0.24 ug/l

RT: 13.87 min Scan# 3818

Delta R.T. -0.01 min

Lab File: VN050857.D

Acq: 23 Aug 2018 17:01

Instrument :

MSVOA_N

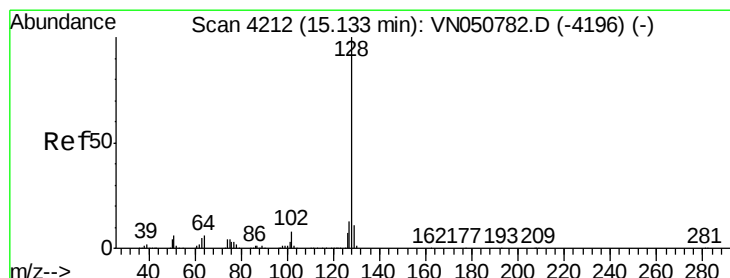
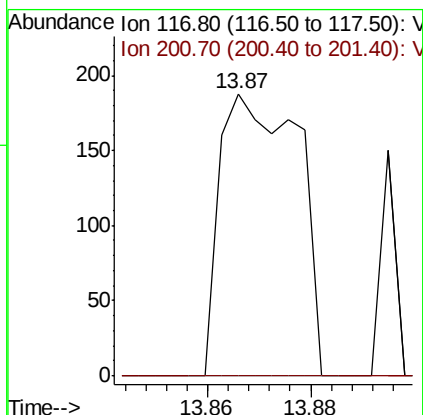
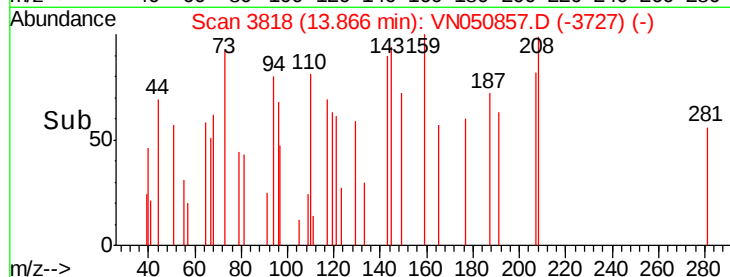
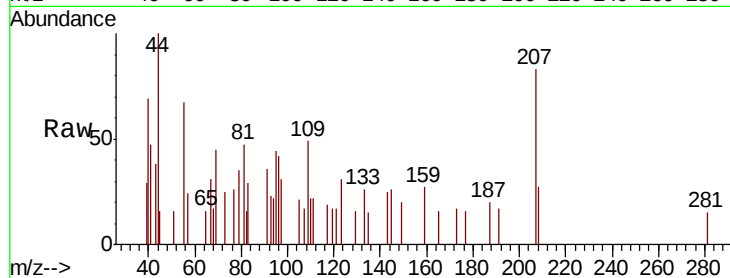
ClientSampleId :

Tot Ion:117 Resp: 196

Ion Ratio Lower Upper

117 100

201 0.0 46.0 137.8#



#95

Naphthalene

Concen: 5.44 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050857.D

Acq: 23 Aug 2018 17:01

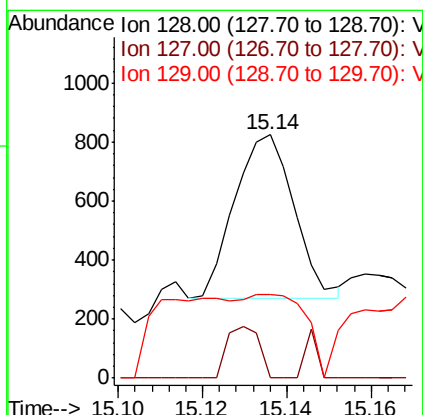
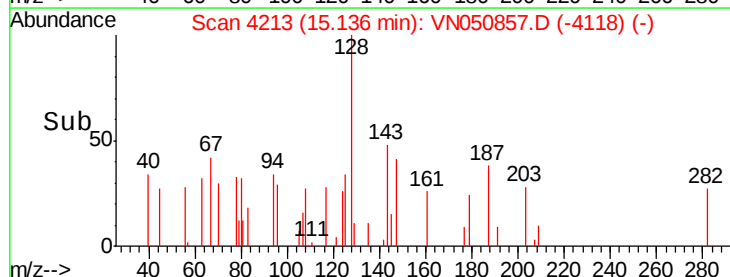
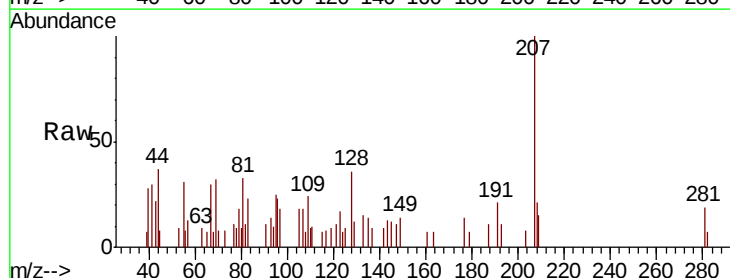
Tgt Ion:128 Resp: 548

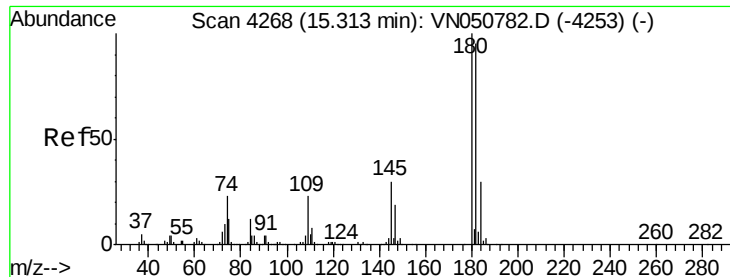
Ion Ratio Lower Upper

128 100

127 17.0 10.5 15.7#

129 0.0 8.7 13.1#

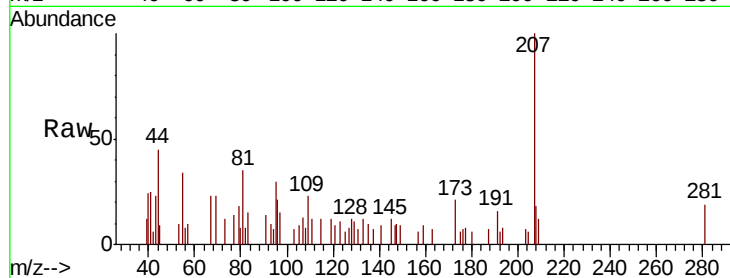




#96
 1,2,3-Trichlorobenzene
 Concen: 3.30 ug/l
 RT: 15.32 min Scan# 4270
 Delta R.T. 0.01 min
 Lab File: VN050857.D
 Acq: 23 Aug 2018 17:01

Instrument :
 MSVOA_N
 ClientSampleId :

Tot 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

