

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040219\
 Data File : VN054911.D
 Acq On : 2 Apr 2019 19:21
 Operator : JC/SP
 Sample : K1696-03 500X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 05:09:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	519266	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	865161	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	734524	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	246765	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	338864	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	
35) Dibromofluoromethane	7.59	113	274417	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	
50) Toluene-d8	10.09	98	1032028	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	
62) 4-Bromofluorobenzene	12.40	95	315448	44.23	ug/l	0.00
Spiked Amount			Recovery	=	88.46%	

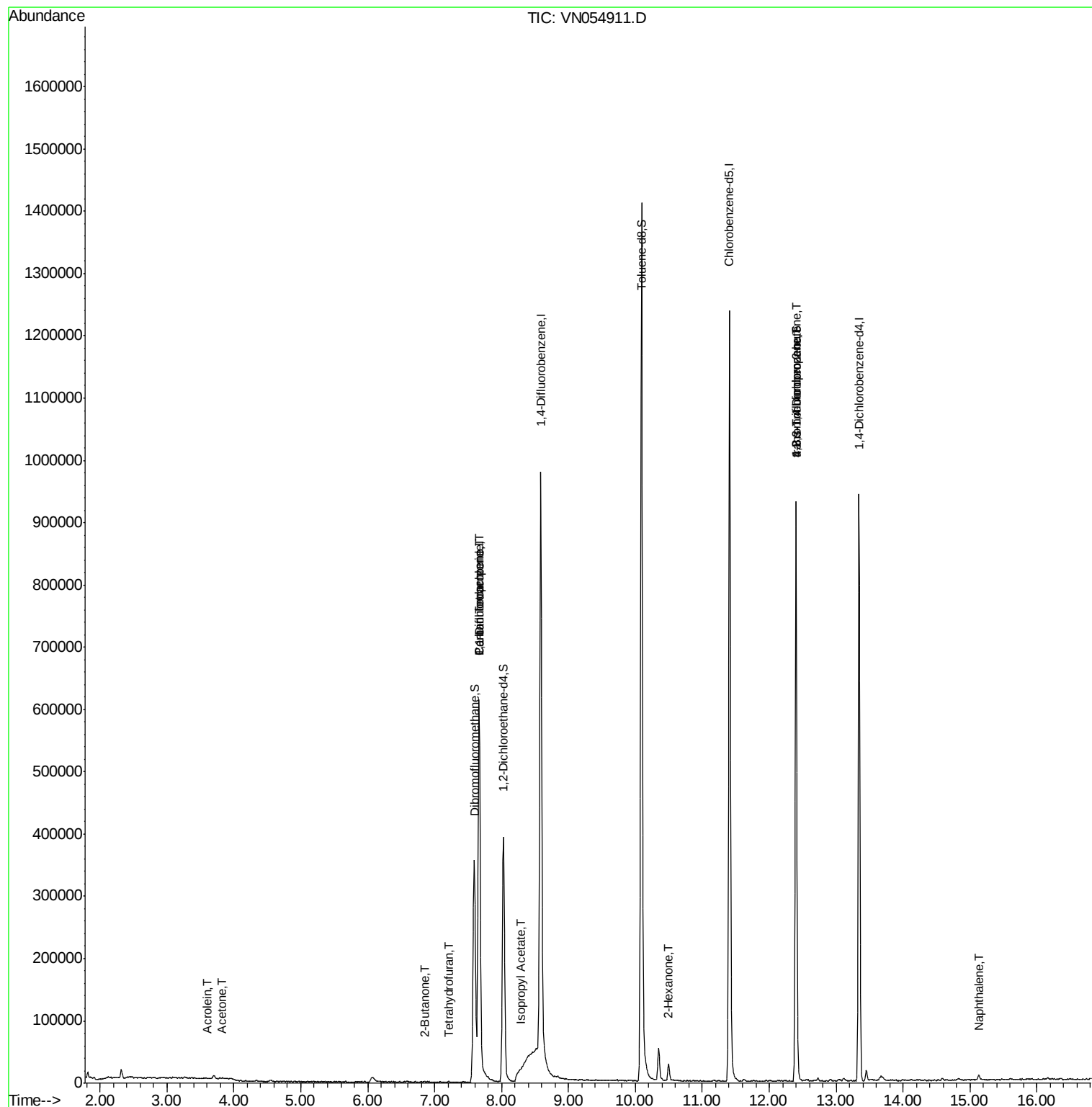
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	29	Below Cal	#	74
13) Acrolein	3.61	56	417	1.279	ug/l #	14
16) Acetone	3.82	43	975	0.584	ug/l #	11
18) Methyl Acetate	4.34	43	2929	Below Cal	#	71
25) 2-Butanone	6.87	43	498	0.202	ug/l #	46
29) Tetrahydrofuran	7.23	42	353	0.206	ug/l #	30
31) Cyclohexane	7.67	56	11478	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	39850	4.943	ug/l #	48
38) Carbon Tetrachloride	7.67	117	48123	6.146	ug/l #	16
43) Isopropyl Acetate	8.28	43	24178	2.517	ug/l #	60
59) 2-Hexanone	10.50	43	2250	0.651	ug/l	84
75) 1,1,2,2-Tetrachloroethane	12.40	83	96	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	163607	38.165	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	163607	148.451	ug/l #	11
83) tert-Butylbenzene	13.04	119	237	Below Cal	#	55
95) Naphthalene	15.13	128	6071	0.683	ug/l	96

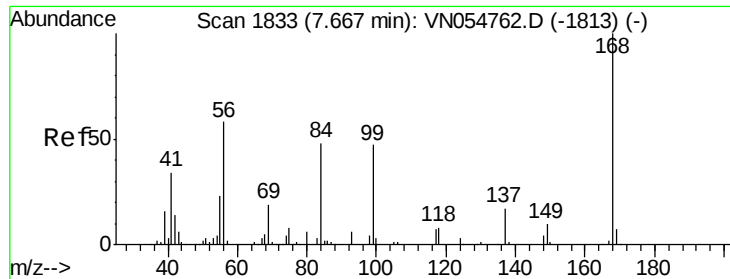
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054911.D

Acq: 2 Apr 2019 19:21

Instrument :

MSVOA_N

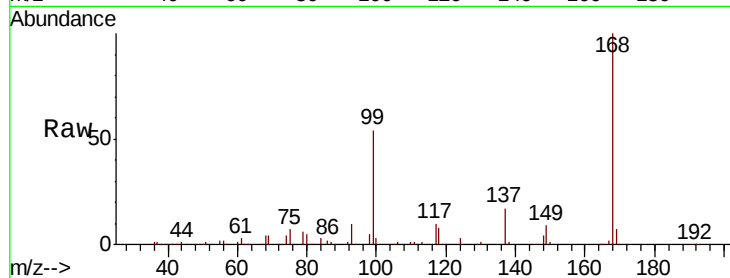
ClientSampled :

Tot Ion:168 Resp: 519266

Ion Ratio Lower Upper

168 100

99 54.5 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

200000

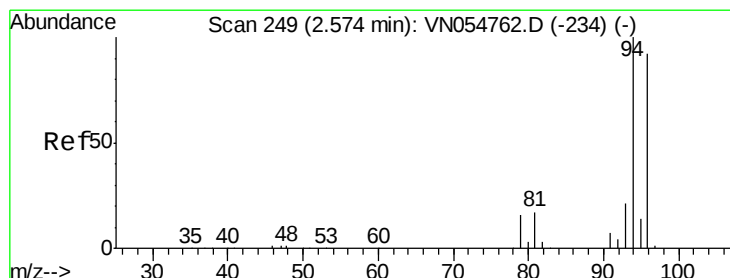
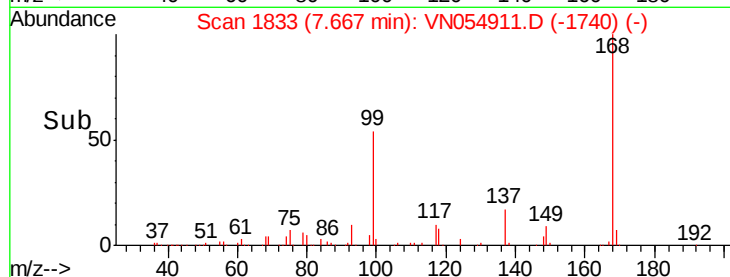
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 252

Delta R.T. 0.01 min

Lab File: VN054911.D

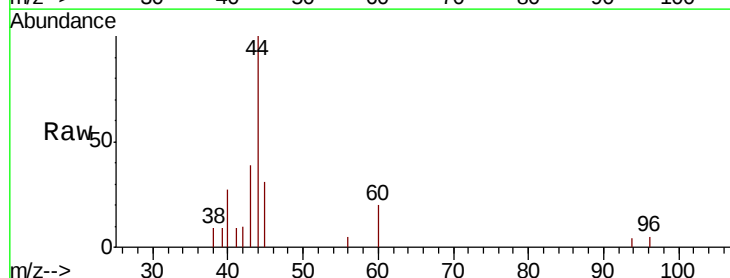
Acq: 2 Apr 2019 19:21

Tgt Ion: 94 Resp: 29

Ion Ratio Lower Upper

94 100

96 121.3 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

200

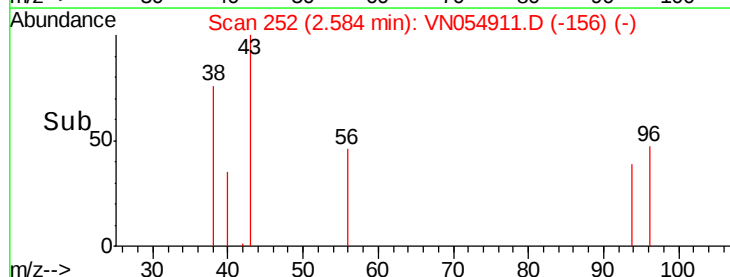
150

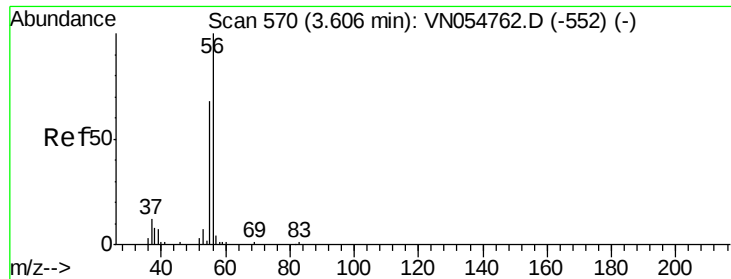
100

50

0

Time--> 2.58 2.58 2.59 2.59





#13

Acrolein

Concen: 1.279 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054911.D

Acq: 2 Apr 2019 19:21

Instrument :

MSVOA_N

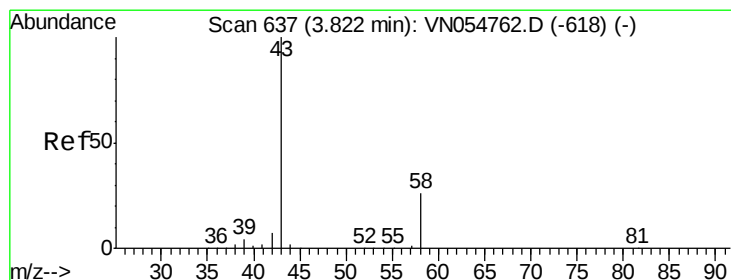
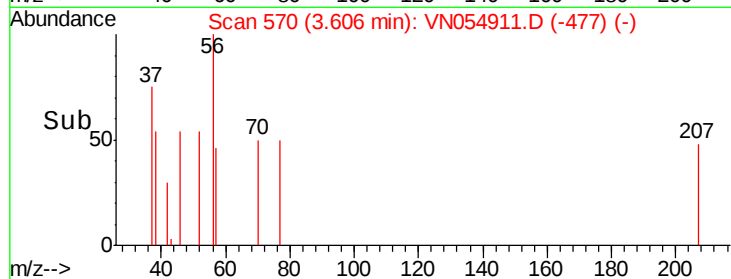
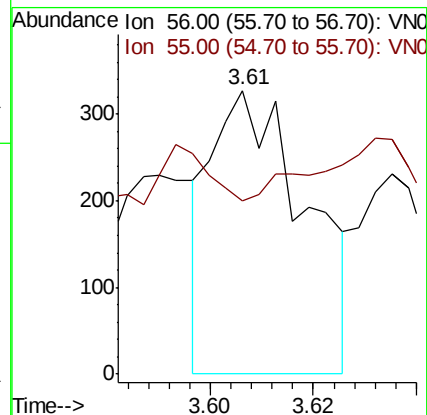
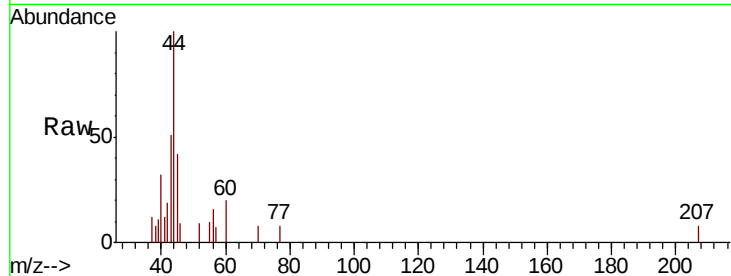
ClientSampled :

Tot Ion: 56 Resp: 417

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



#16

Acetone

Concen: 0.584 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.01 min

Lab File: VN054911.D

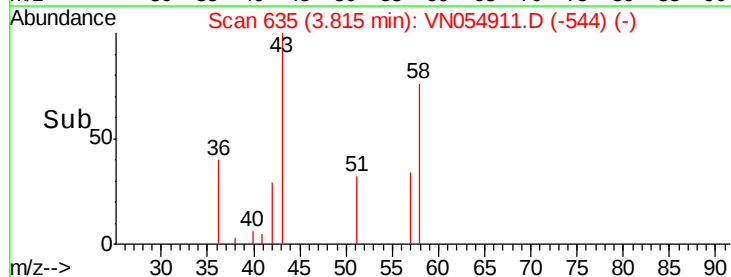
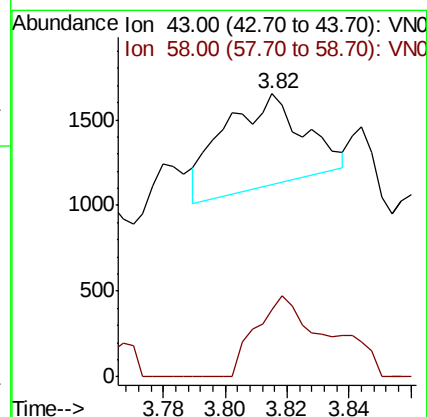
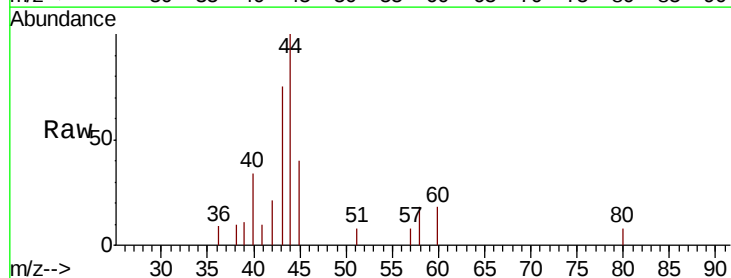
Acq: 2 Apr 2019 19:21

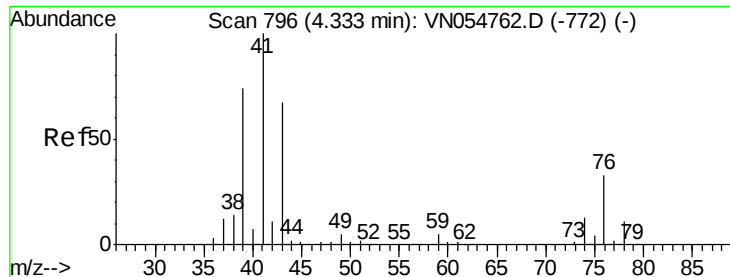
Tgt Ion: 43 Resp: 975

Ion Ratio Lower Upper

43 100

58 90.8 29.9 44.9#

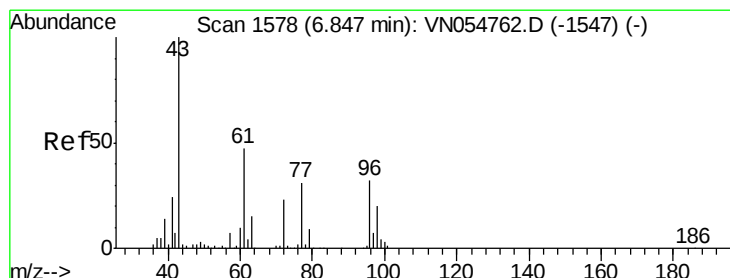
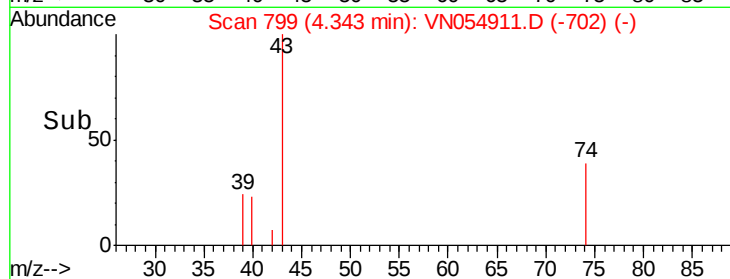
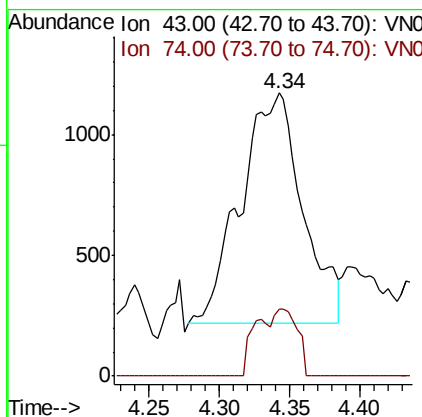
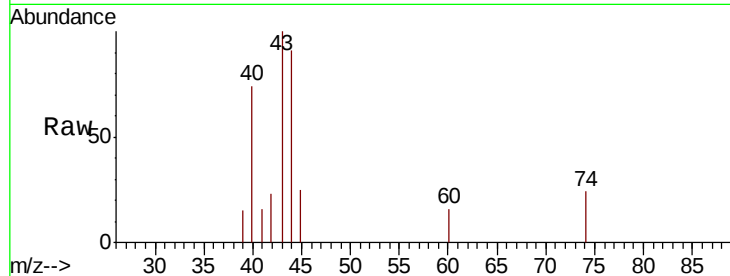




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 799
Delta R.T. 0.01 min
Lab File: VN054911.D
Acq: 2 Apr 2019 19:21

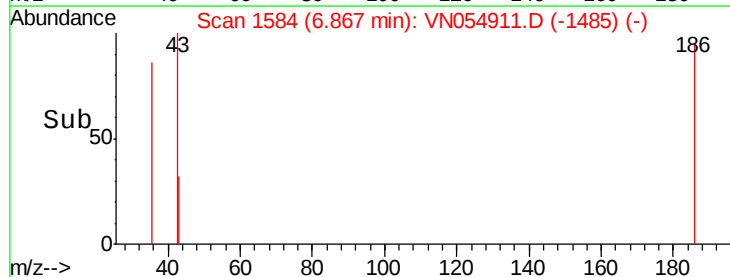
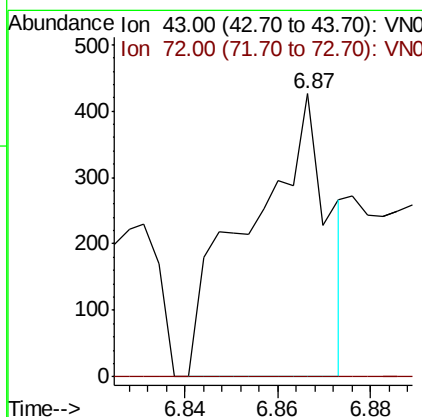
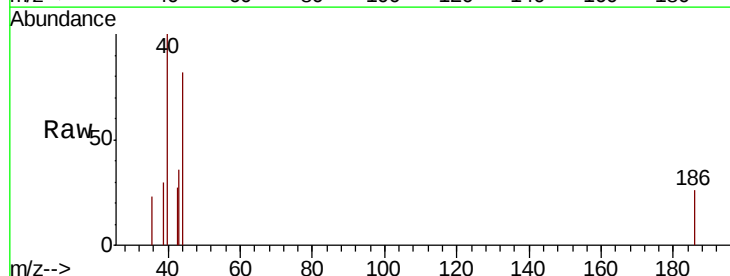
Instrument :
MSVOA_N
ClientSampled :

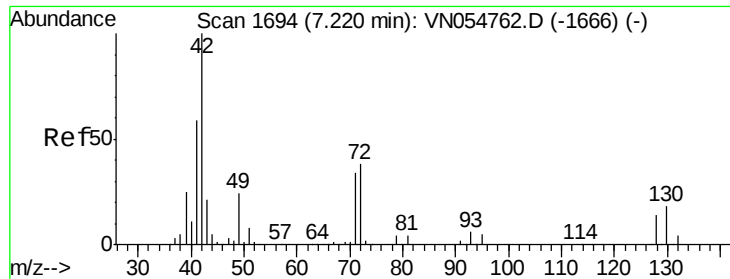
Tot Ion: 43 Resp: 2929
Ion Ratio Lower Upper
43 100
74 11.0 20.8 31.2#



#25
2-Butanone
Concen: 0.202 ug/l
RT: 6.87 min Scan# 1584
Delta R.T. 0.02 min
Lab File: VN054911.D
Acq: 2 Apr 2019 19:21

Tgt Ion: 43 Resp: 498
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#





#29

Tetrahydrofuran

Concen: 0.206 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN054911.D

Acq: 2 Apr 2019 19:21

Instrument :

MSVOA_N

ClientSampled :

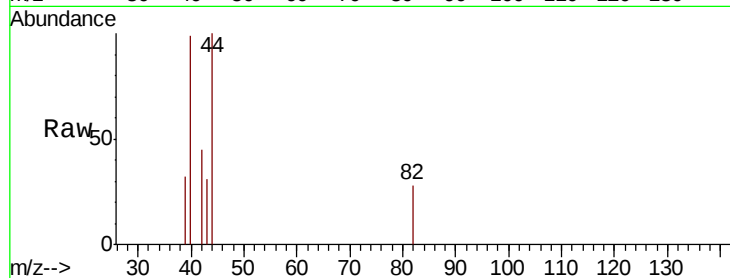
Tot Ion: 42 Resp: 353

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

71 0.0 36.2 54.2#

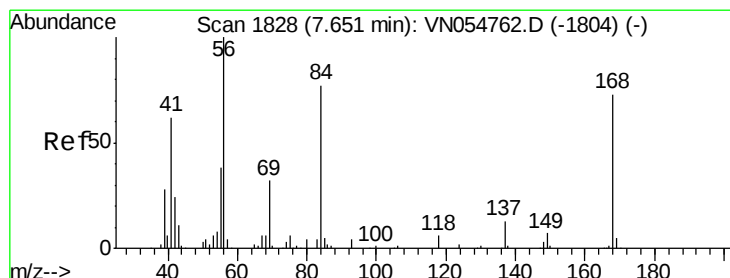
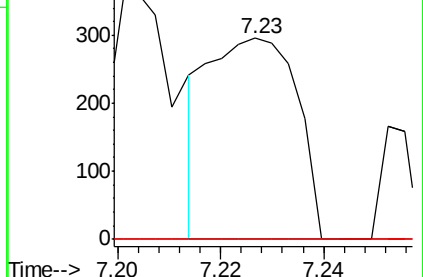
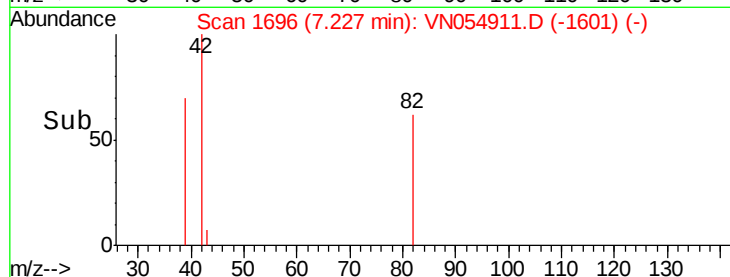


Abundance Ion 42.00 (41.70 to 42.70): VN054911.D (-1601) (-)

Ion 72.00 (71.70 to 72.70): VN054911.D (-1601) (-)

Ion 71.00 (70.70 to 71.70): VN054911.D (-1601) (-)

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054911.D

Acq: 2 Apr 2019 19:21

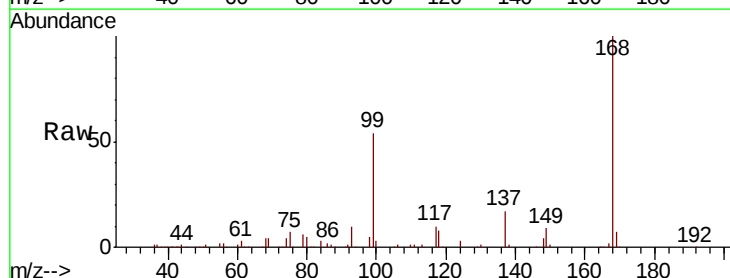
Tgt Ion: 56 Resp: 11478

Ion Ratio Lower Upper

56 100

69 184.7 27.8 41.6#

84 143.5 74.6 111.8#

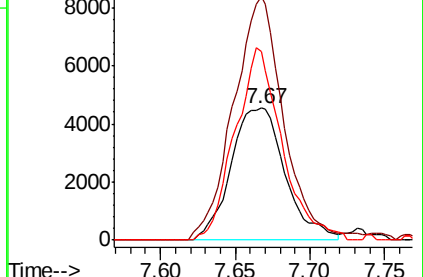
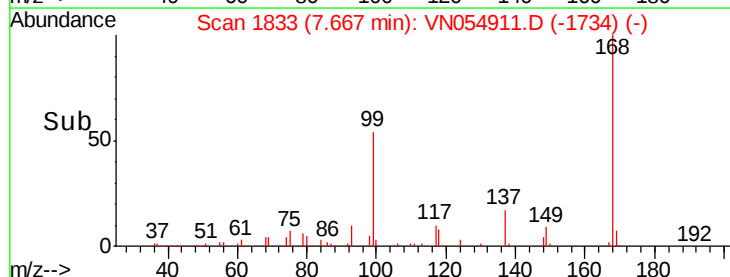


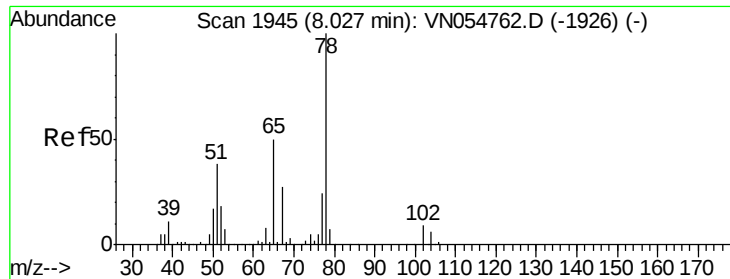
Abundance Ion 56.00 (55.70 to 56.70): VN054911.D (-1734) (-)

Ion 69.00 (68.70 to 69.70): VN054911.D (-1734) (-)

Ion 84.00 (83.70 to 84.70): VN054911.D (-1734) (-)

Time-->

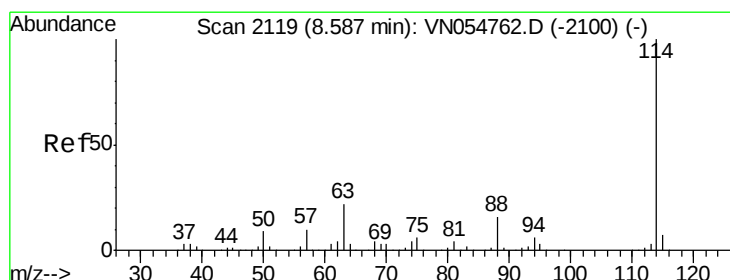
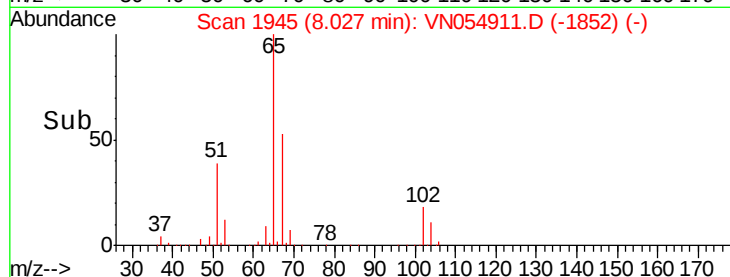
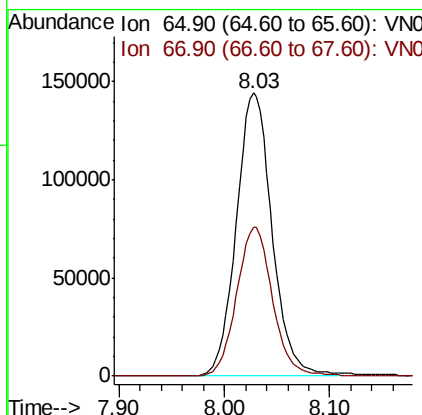
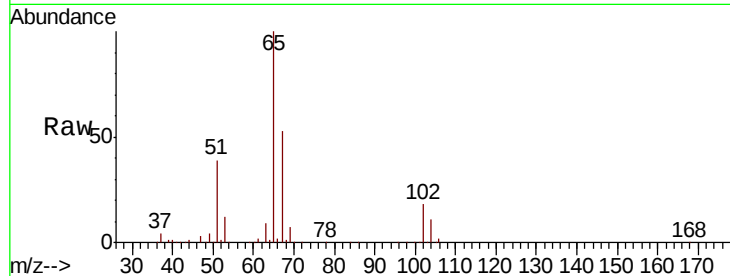




#33
 1,2-Dichloroethane-d4
 Concen: 48.410 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054911.D
 Acq: 2 Apr 2019 19:21

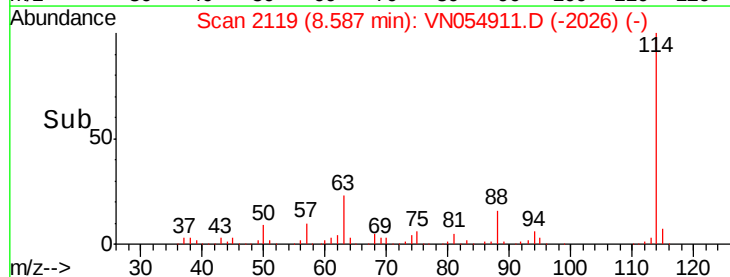
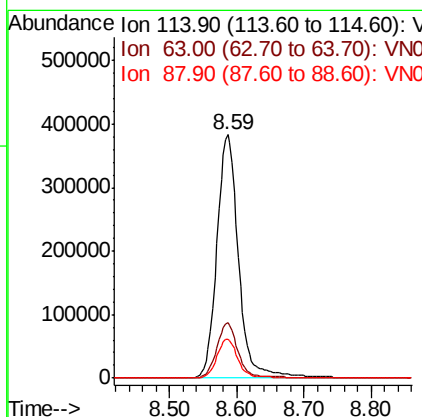
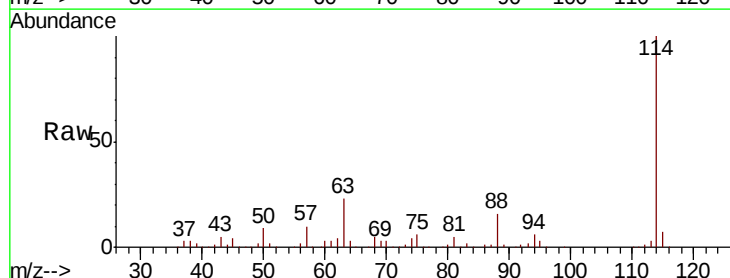
Instrument :
 MSVOA_N
 ClientSampleId :

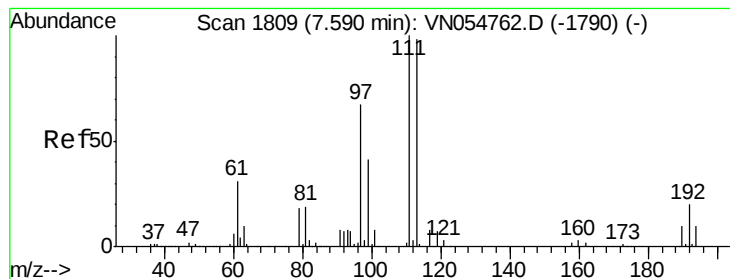
Tot Ion: 65 Resp: 338864
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054911.D
 Acq: 2 Apr 2019 19:21

Tgt Ion: 114 Resp: 865161
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 35.2
 88 16.2 0.0 30.2





#35

Dibromofluoromethane

Concen: 47.576 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054911.D

Acq: 2 Apr 2019 19:21

Instrument :

MSVOA_N

ClientSampled :

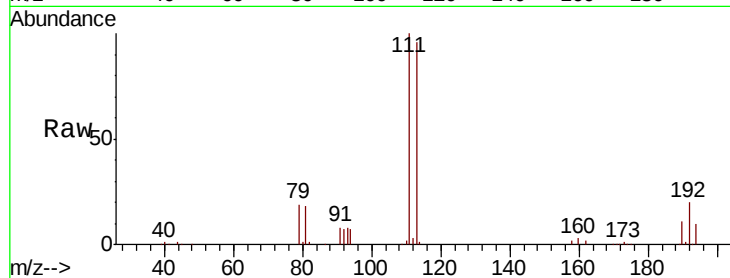
Tot Ion:113 Resp: 274417

Ion Ratio Lower Upper

113 100

111 101.9 82.2 123.4

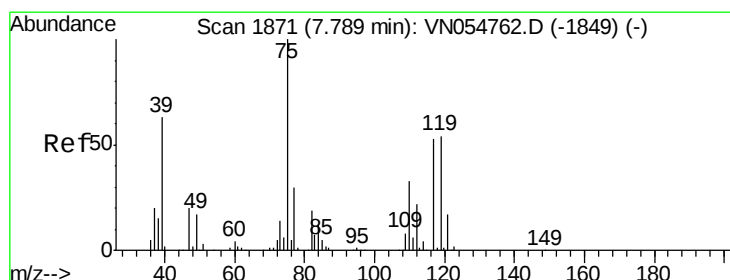
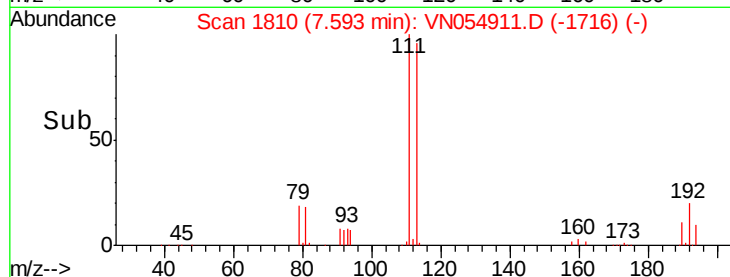
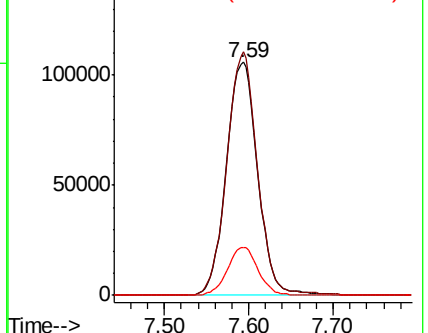
192 20.2 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.943 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054911.D

Acq: 2 Apr 2019 19:21

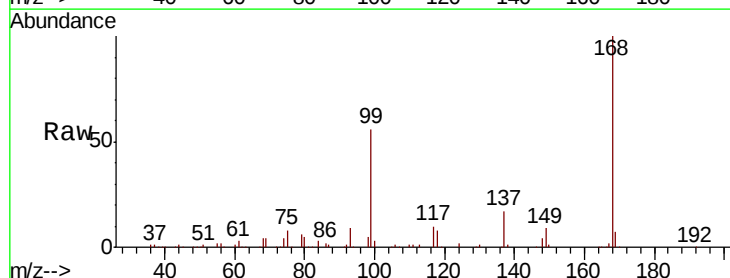
Tgt Ion: 75 Resp: 39850

Ion Ratio Lower Upper

75 100

110 8.8 19.1 57.5#

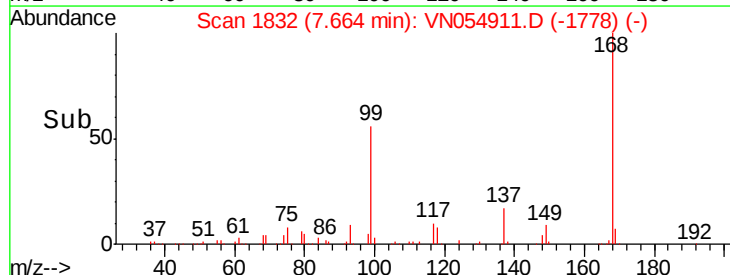
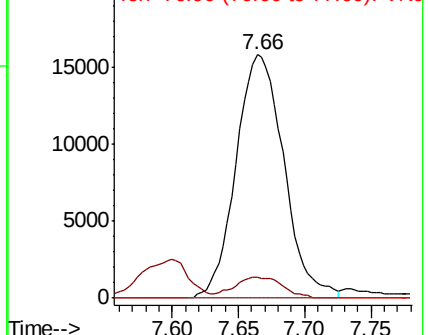
77 0.0 25.0 37.4#

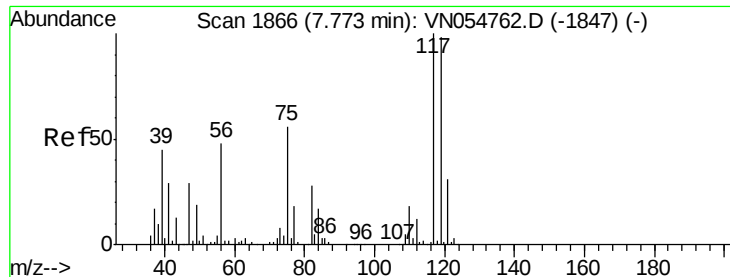


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 6.146 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054911.D

Acq: 2 Apr 2019 19:21

Instrument :

MSVOA_N

ClientSampleId :

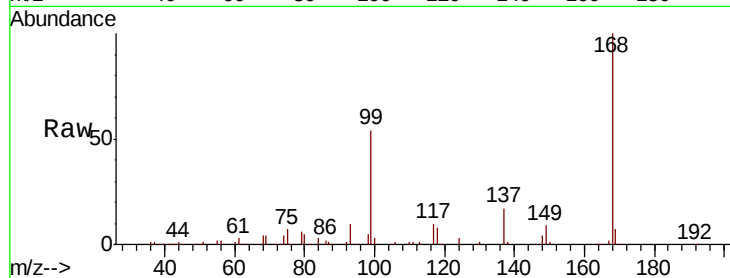
Tot Ion:117 Resp: 48123

Ion Ratio Lower Upper

117 100

119 4.8 76.3 114.5#

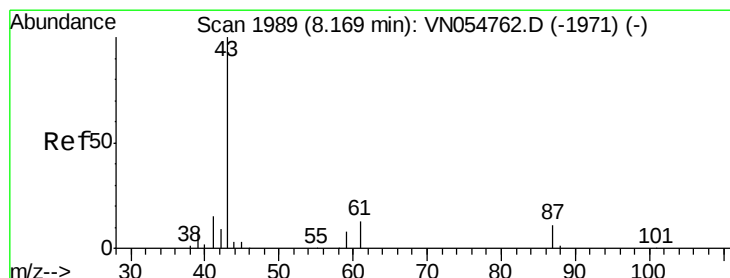
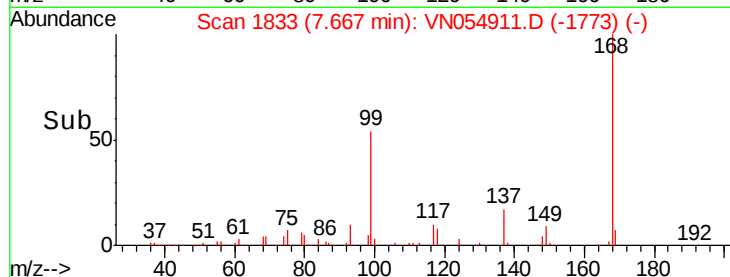
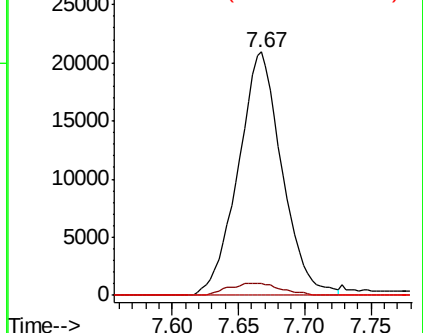
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.517 ug/l

RT: 8.28 min Scan# 2023

Delta R.T. 0.11 min

Lab File: VN054911.D

Acq: 2 Apr 2019 19:21

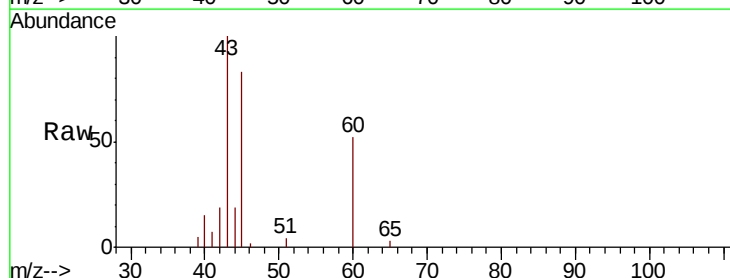
Tgt Ion: 43 Resp: 24178

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

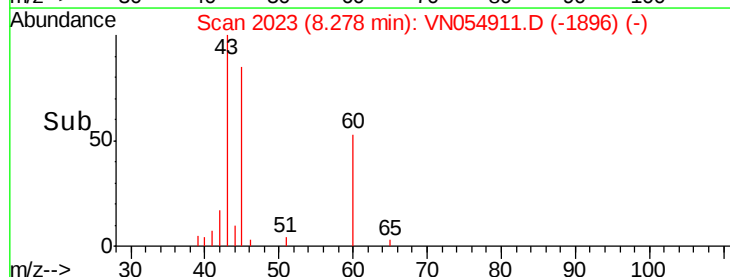
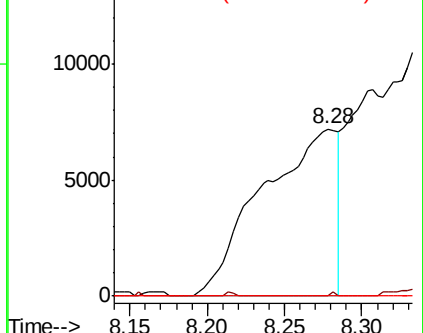
87 0.0 12.0 18.0#

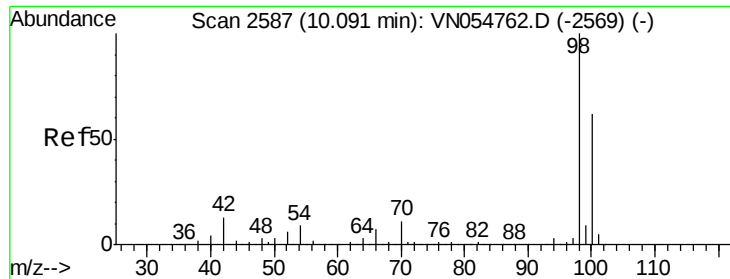


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#50

Toluene-d8

Concen: 48.127 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054911.D

Acq: 2 Apr 2019 19:21

Instrument :

MSVOA_N

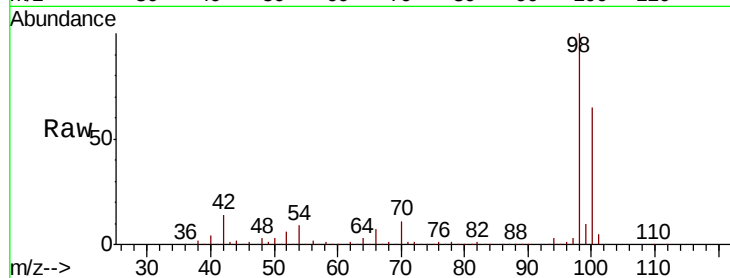
ClientSampled :

Tot Ion: 98 Resp: 1032028

Ion Ratio Lower Upper

98 100

100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054762.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054762.D (-2569) (-)

10.09

500000

400000

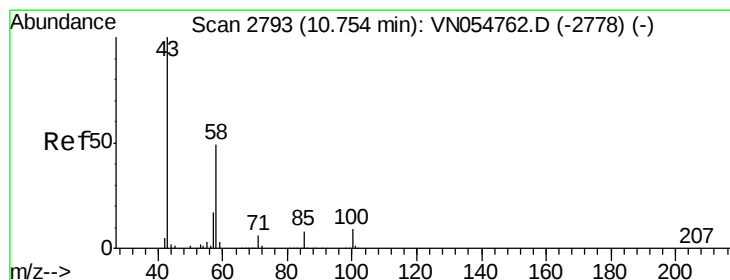
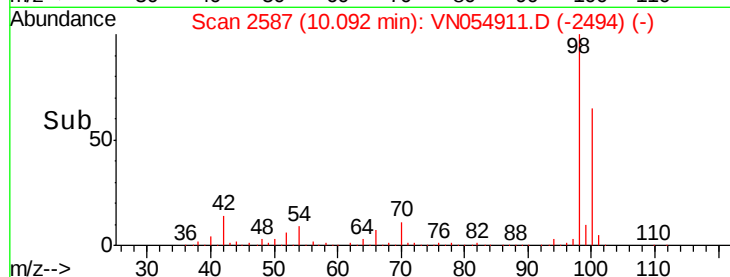
300000

200000

100000

0

Time-->



#59

2-Hexanone

Concen: 0.651 ug/l

RT: 10.50 min Scan# 2713

Delta R.T. -0.26 min

Lab File: VN054911.D

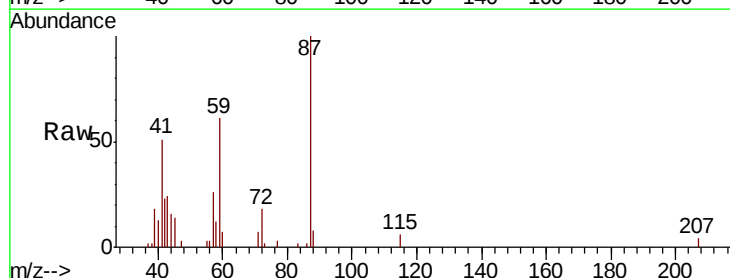
Acq: 2 Apr 2019 19:21

Tgt Ion: 43 Resp: 2250

Ion Ratio Lower Upper

43 100

58 67.3 28.0 83.9



Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-2778) (-)

Ion 58.00 (57.70 to 58.70): VN054762.D (-2778) (-)

10.50

2000

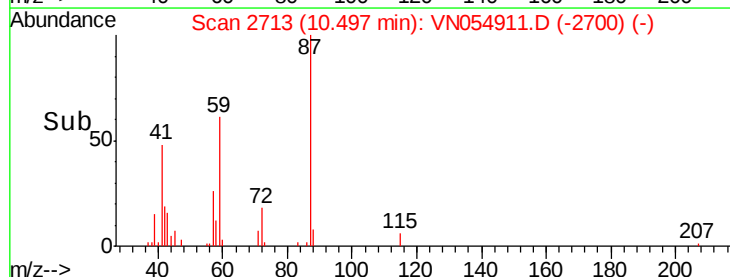
1500

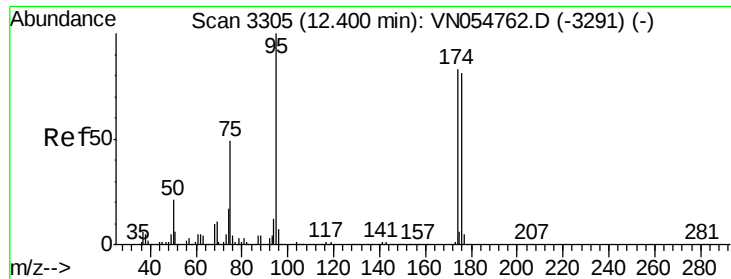
1000

500

0

Time-->

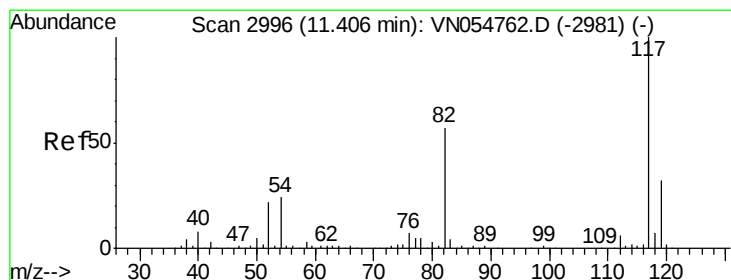
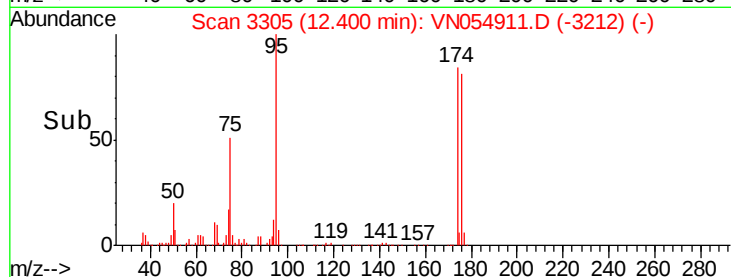
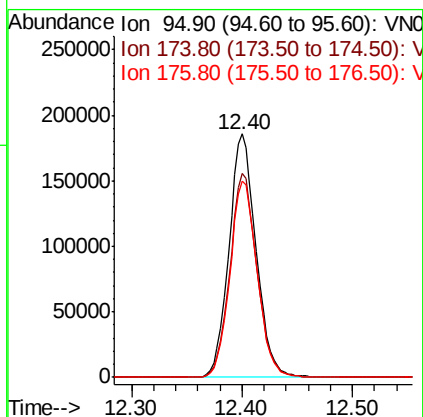
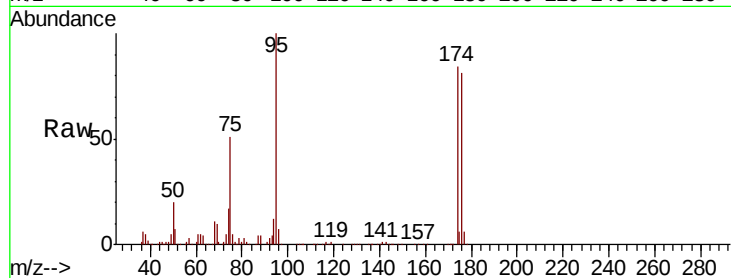




#62
4-Bromofluorobenzene
Concen: 44.231 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054911.D
Acq: 2 Apr 2019 19:21

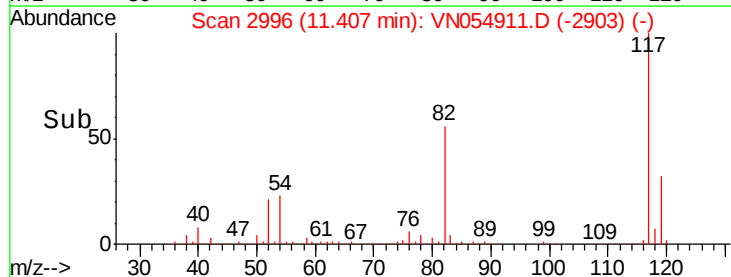
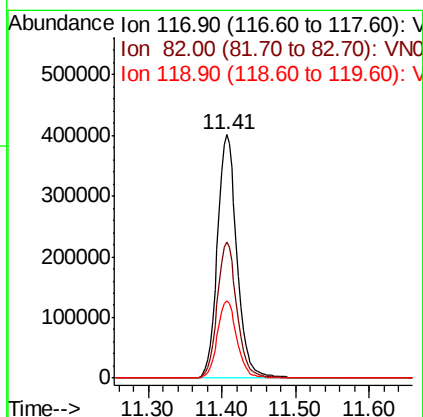
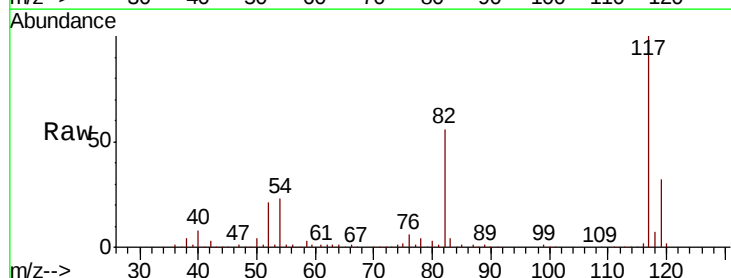
Instrument :
MSVOA_N
ClientSampleId :

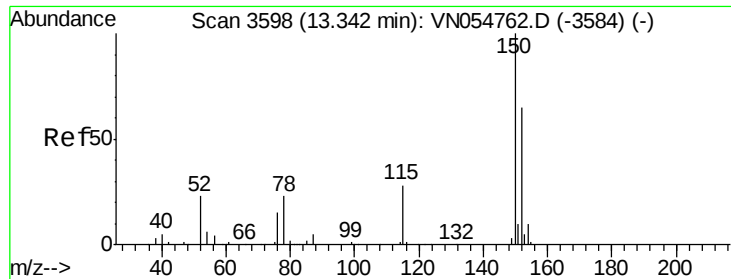
Tot Ion: 95 Resp: 315448
Ion Ratio Lower Upper
95 100
174 83.8 0.0 191.0
176 81.2 0.0 187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054911.D
Acq: 2 Apr 2019 19:21

Tgt Ion: 117 Resp: 734524
Ion Ratio Lower Upper
117 100
82 55.9 40.0 60.0
119 31.9 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054911.D

Acq: 2 Apr 2019 19:21

Instrument :

MSVOA_N

ClientSampled :

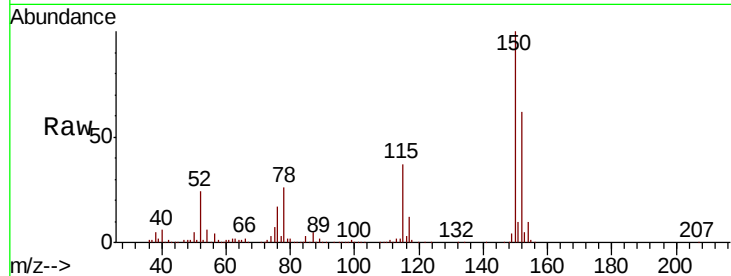
Tot Ion:152 Resp: 246765

Ion Ratio Lower Upper

152 100

115 58.1 27.2 81.6

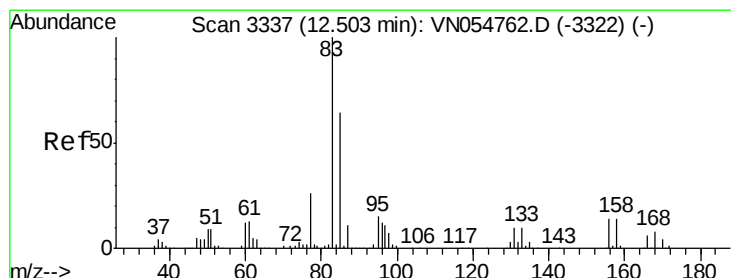
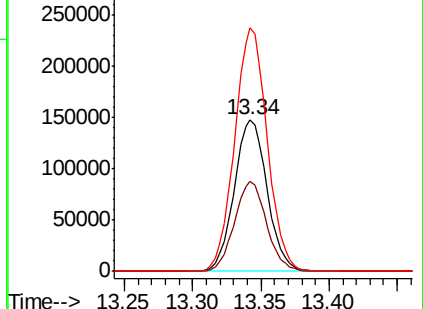
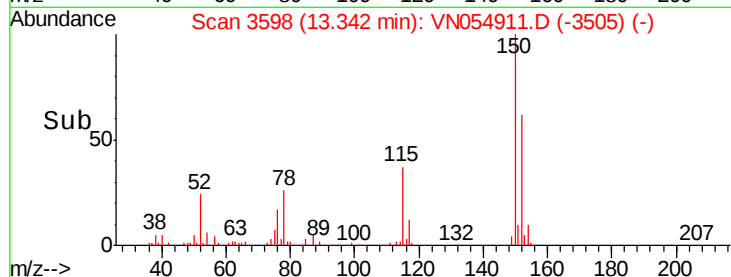
150 159.2 0.0 349.2



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# 3305

Delta R.T. -0.10 min

Lab File: VN054911.D

Acq: 2 Apr 2019 19:21

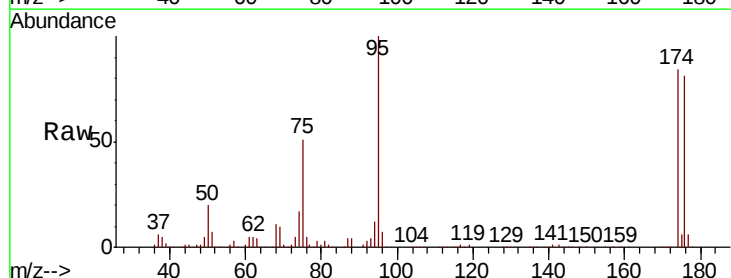
Tgt Ion: 83 Resp: 96

Ion Ratio Lower Upper

83 100

131 480.2 5.8 17.4#

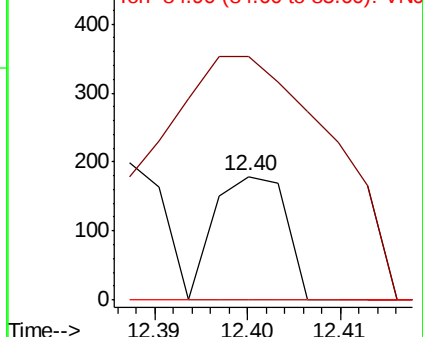
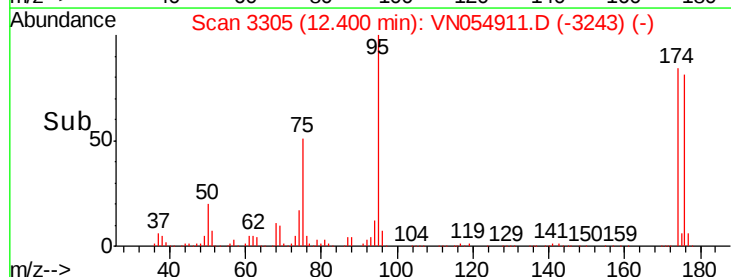
85 0.0 32.2 96.6#

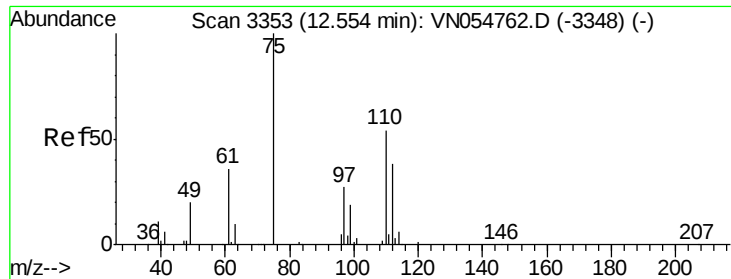


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

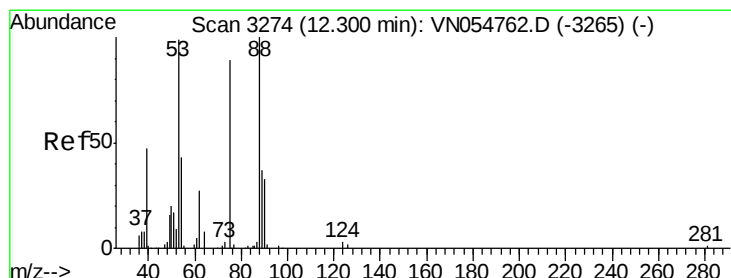
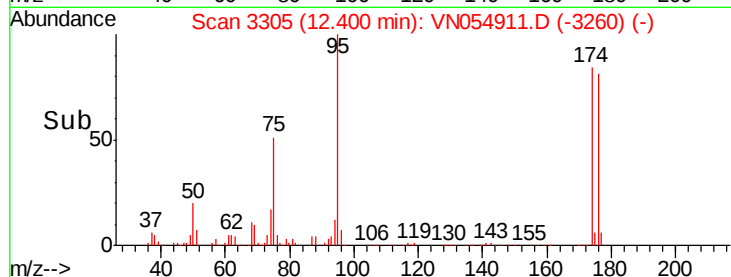
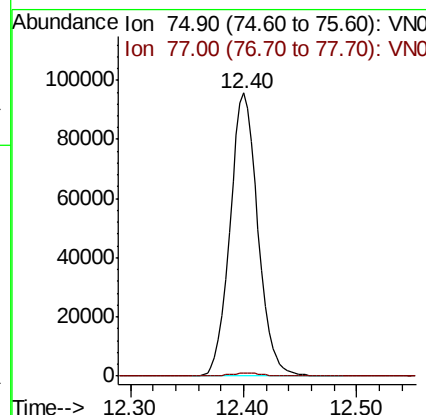
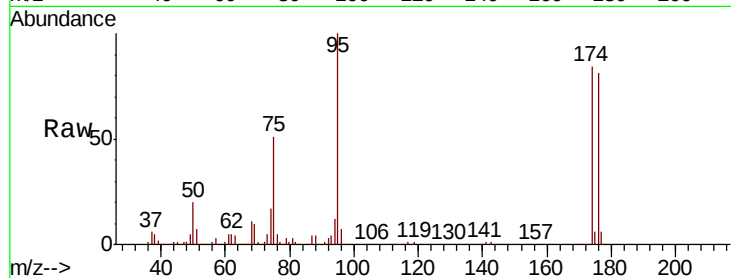




#76
 1,2,3-Trichloropropane
 Concen: 38.165 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN054911.D
 Acq: 2 Apr 2019 19:21

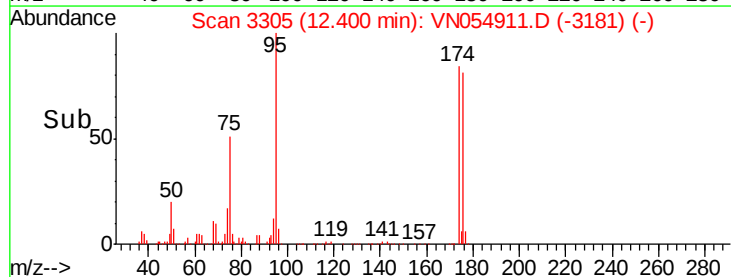
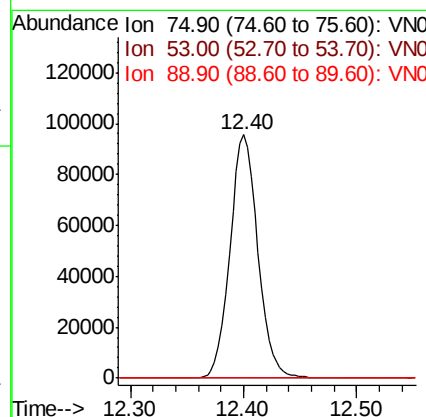
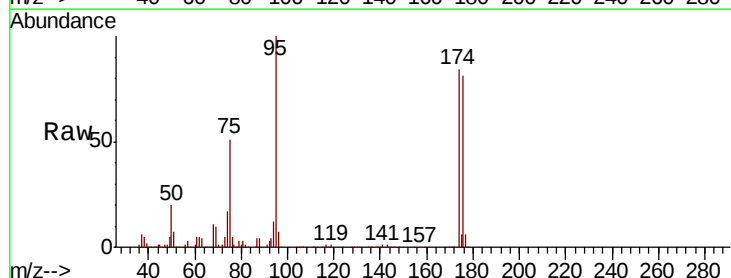
Instrument :
 MSVOA_N
 ClientSampled :

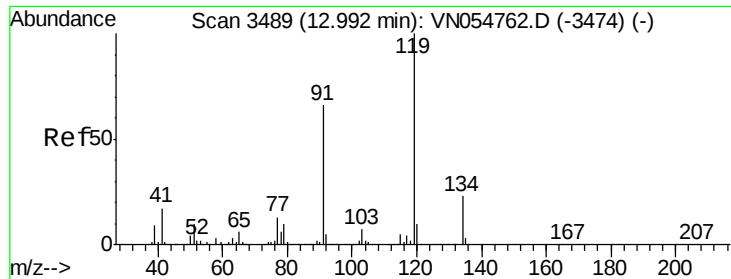
Tot Ion: 75 Resp: 163607
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 148.451 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054911.D
 Acq: 2 Apr 2019 19:21

Tgt Ion: 75 Resp: 163607
 Ion Ratio Lower Upper
 75 100
 53 0.1 76.2 114.2#
 89 0.0 39.2 58.8#

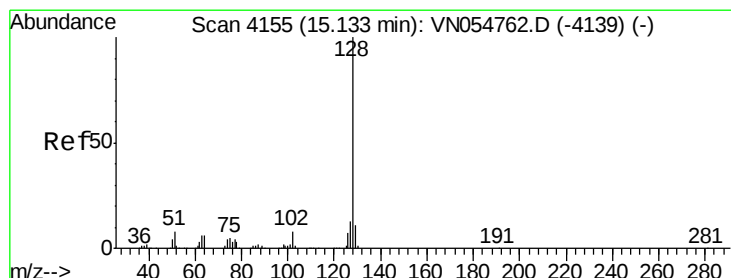
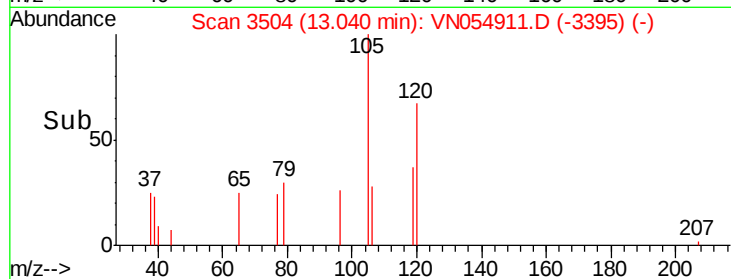
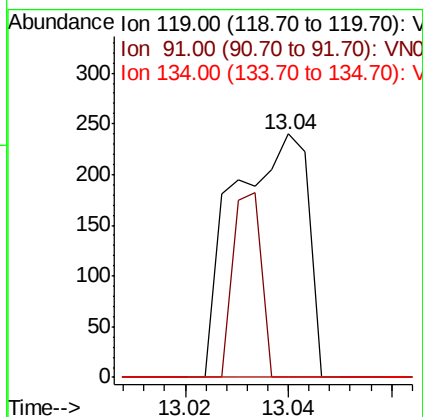
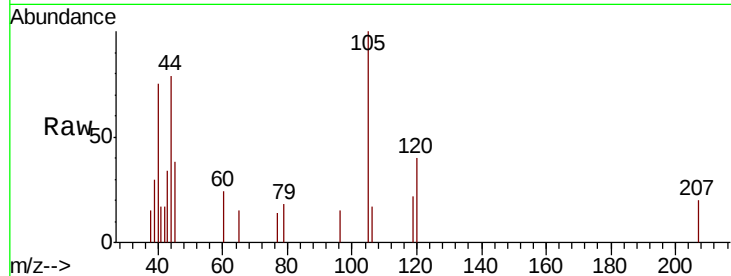




#83
tert-Butylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3504
Delta R.T. 0.05 min
Lab File: VN054911.D
Acq: 2 Apr 2019 19:21

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:119 Resp: 237
Ion Ratio Lower Upper
119 100
91 29.1 30.9 92.8#
134 0.0 13.2 39.6#



#95
Naphthalene
Concen: 0.683 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN054911.D
Acq: 2 Apr 2019 19:21

Tgt Ion:128 Resp: 6071
Ion Ratio Lower Upper
128 100
127 13.8 10.1 15.1
129 12.9 8.7 13.1

