

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
 Data File : VN054415.D
 Acq On : 19 Mar 2019 1:50
 Operator : JC/SP
 Sample : K1691-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 19 05:19:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1844786	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2721975	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2304928	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	861175	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	921625	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
35) Dibromofluoromethane	7.59	113	836368	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
50) Toluene-d8	10.09	98	3150314	48.59	ug/l	0.00
Spiked Amount			Recovery	=	97.18%	
62) 4-Bromofluorobenzene	12.40	95	950397	41.89	ug/l	0.00
Spiked Amount			Recovery	=	83.78%	

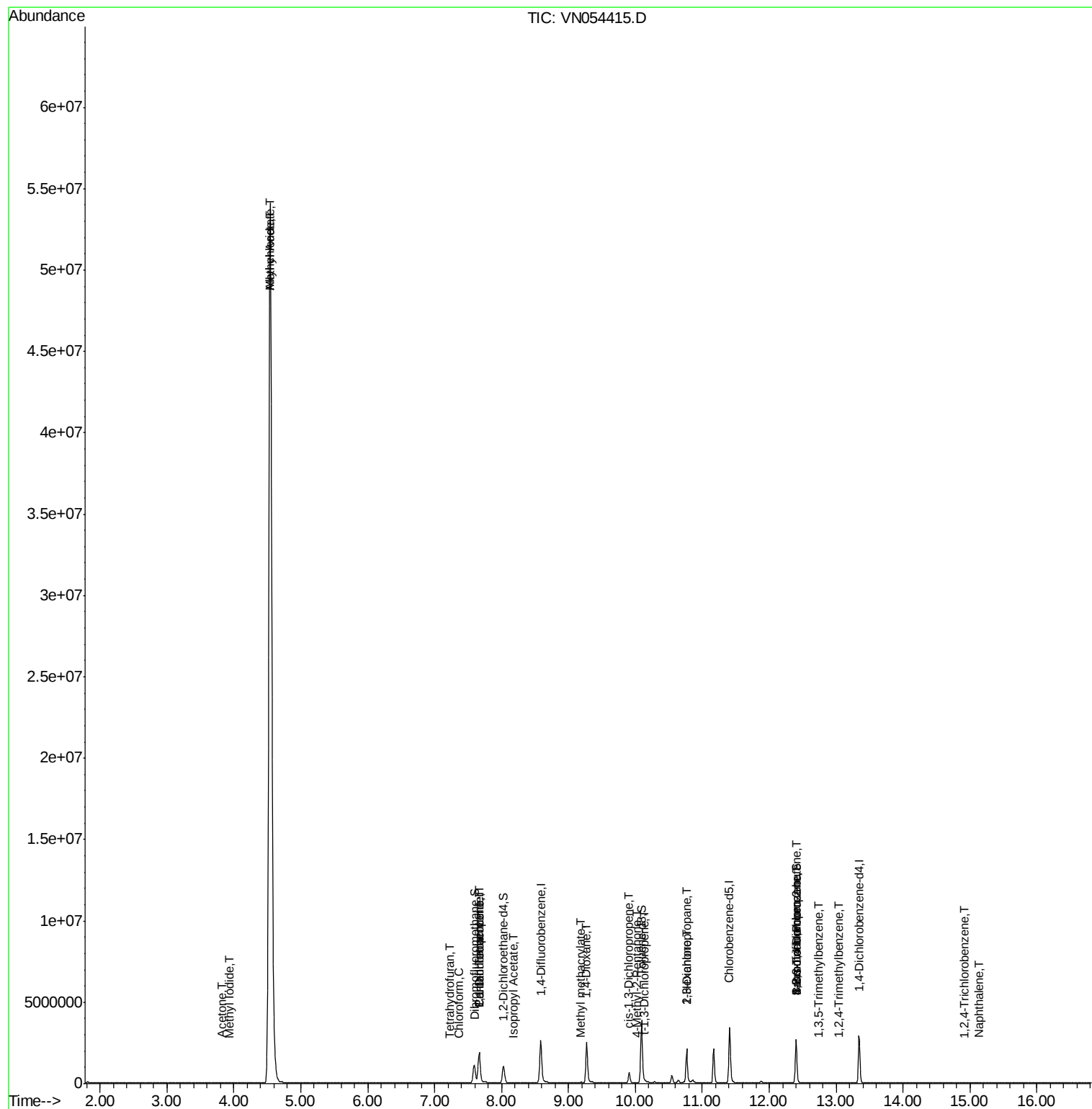
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	150	1.502	ug/l #	45
14) Allyl chloride	4.54	41	1384479	56.303	ug/l #	22
16) Acetone	3.83	43	16411	2.926	ug/l	94
18) Methyl Acetate	4.54	43	154068	13.575	ug/l	90
29) Tetrahydrofuran	7.23	42	1751	0.414	ug/l #	56
30) Chloroform	7.37	83	6656	0.202	ug/l	99
31) Cyclohexane	7.66	56	28256	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	112407	4.484	ug/l #	48
38) Carbon Tetrachloride	7.66	117	152247	5.792	ug/l #	16
43) Isopropyl Acetate	8.17	43	28898	1.143	ug/l	98
48) Methyl methacrylate	9.19	41	13529	1.054	ug/l #	11
49) 1,4-Dioxane	9.27	88	306	1.686	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	12990	0.971	ug/l #	36
53) t-1,3-Dichloropropene	10.15	75	133	1.991	ug/l #	42
54) cis-1,3-Dichloropropene	9.90	75	126923	4.514	ug/l #	61
57) 1,3-Dichloropropane	10.77	76	23701	0.873	ug/l #	43
59) 2-Hexanone	10.77	43	319397	35.877	ug/l #	50
71) Bromoform	12.41	173	5779	2.744	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	443921	35.054	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	16180	0.282	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	443921	119.830	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.04	105	20004	0.356	ug/l	98
93) 1,2,4-Trichlorobenzene	14.92	180	247	2.529	ug/l #	36
95) Naphthalene	15.13	128	15322	3.847	ug/l	96

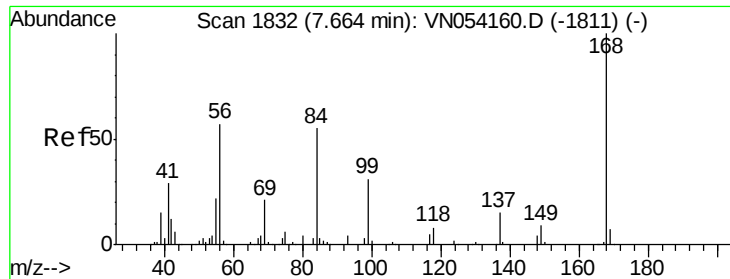
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Mar 19 05:19:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054415.D

Acq: 19 Mar 2019 1:50

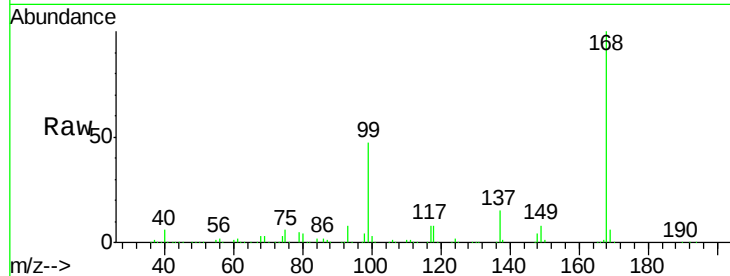
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1844786

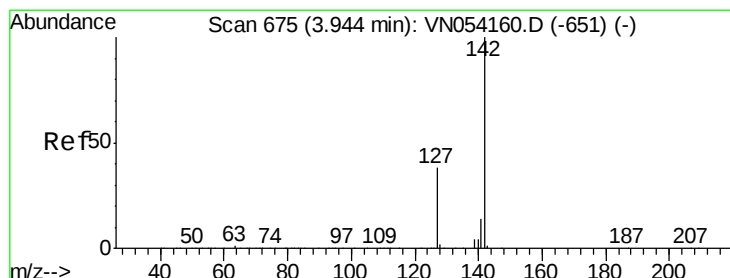
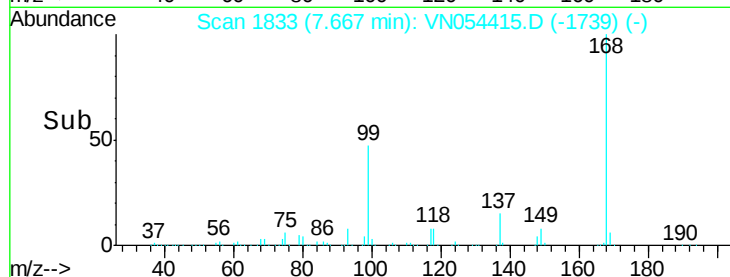
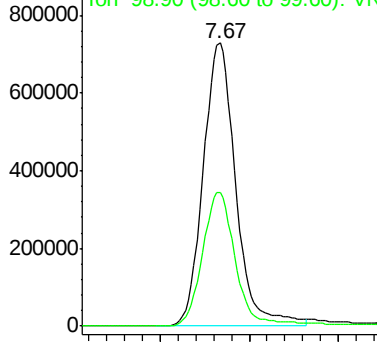
Ion Ratio Lower Upper

168 100

99 47.4 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VN0



#10

Methyl Iodide

Concen: 1.502 ug/l

RT: 3.94 min Scan# 673

Delta R.T. -0.01 min

Lab File: VN054415.D

Acq: 19 Mar 2019 1:50

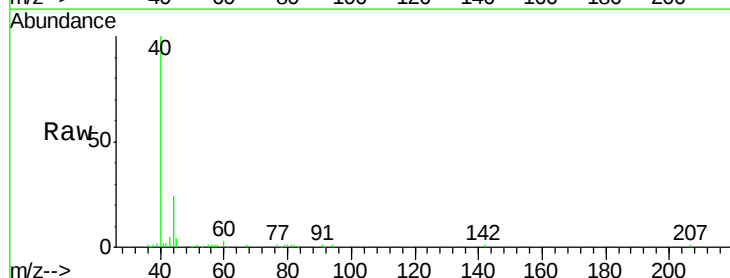
Tgt Ion:142 Resp: 150

Ion Ratio Lower Upper

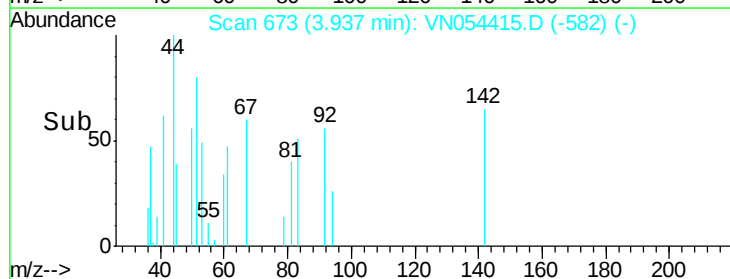
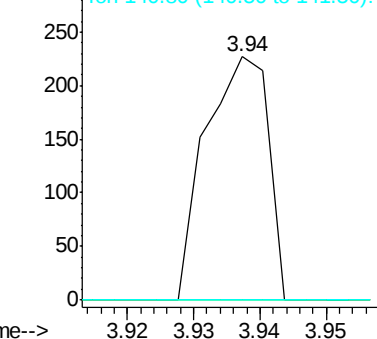
142 100

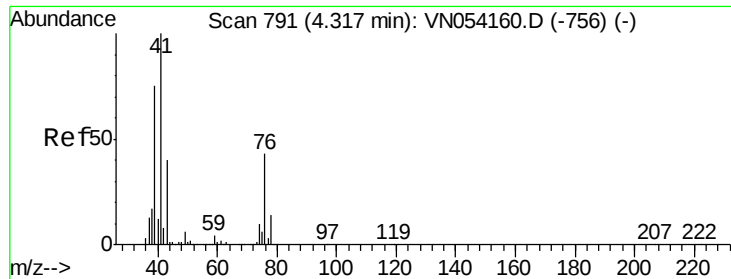
127 0.0 30.3 45.5#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#14

Allvl chloride

Concen: 56.303 ug/l

RT: 4.54 min Scan# 861

Delta R.T. 0.23 min

Lab File: VN054415.D

Acq: 19 Mar 2019 1:50

Instrument :

MSVOA_N

ClientSampled :

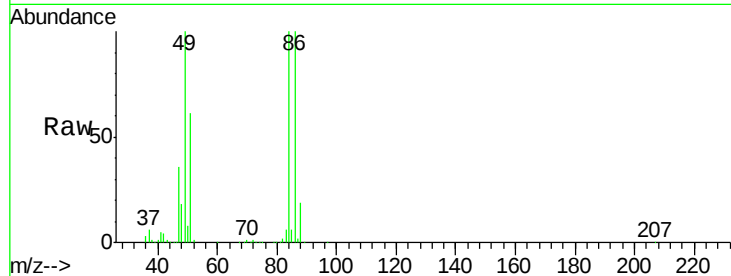
Tot Ion: 41 Resp: 1384479

Ion Ratio Lower Upper

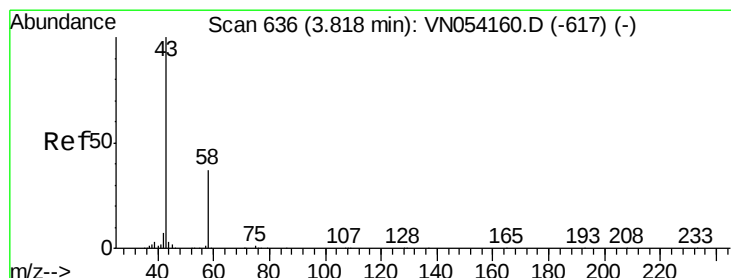
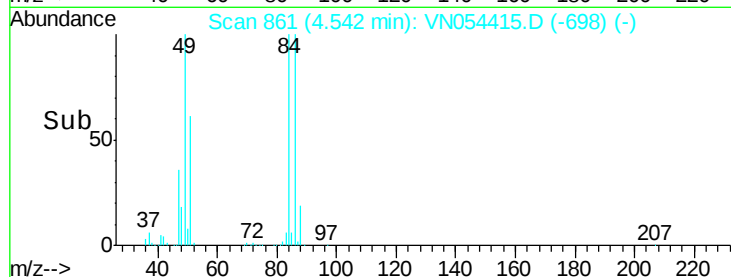
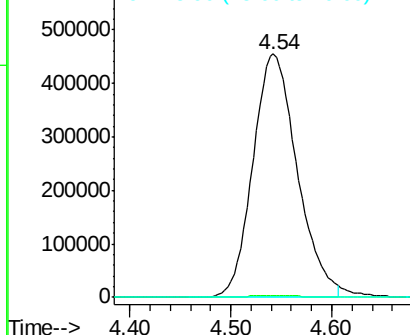
41 100

39 0.9 58.2 87.4#

76 0.0 31.7 47.5#



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 75.90 (75.60 to 76.60): VNC



#16

Acetone

Concen: 2.926 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054415.D

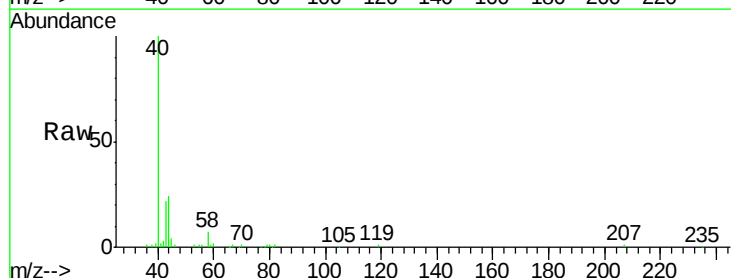
Acq: 19 Mar 2019 1:50

Tgt Ion: 43 Resp: 16411

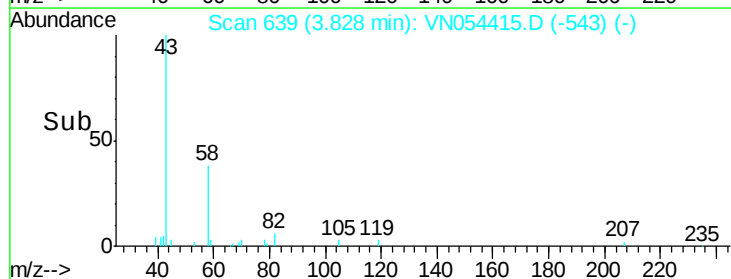
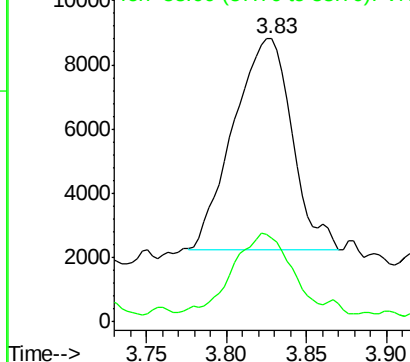
Ion Ratio Lower Upper

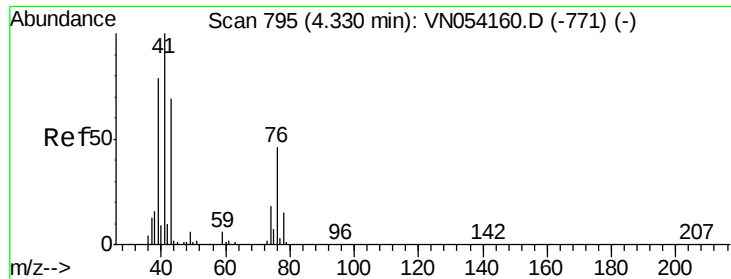
43 100

58 33.6 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC

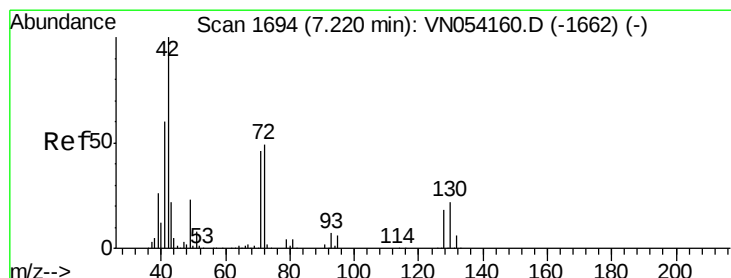
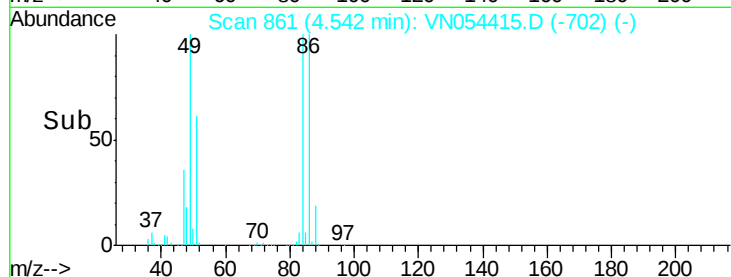
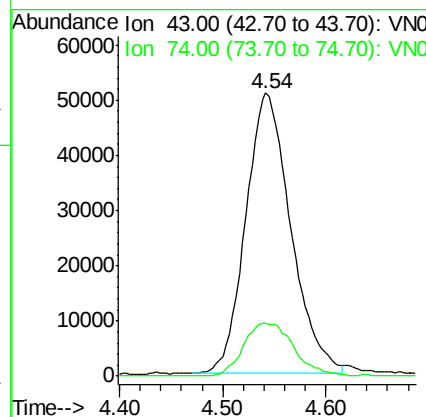
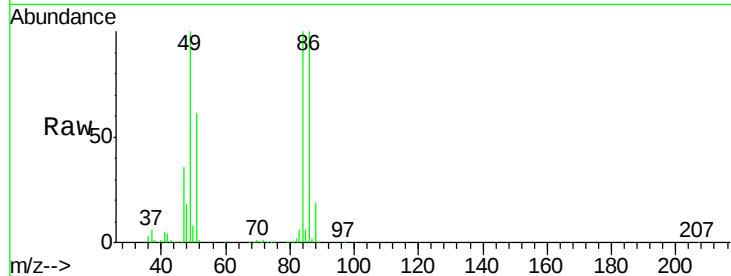




#18
Methvl Acetate
Concen: 13.575 ug/l
RT: 4.54 min Scan# 861
Delta R.T. 0.21 min
Lab File: VN054415.D
Acq: 19 Mar 2019 1:50

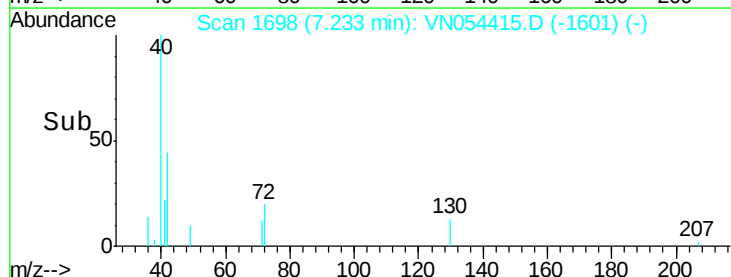
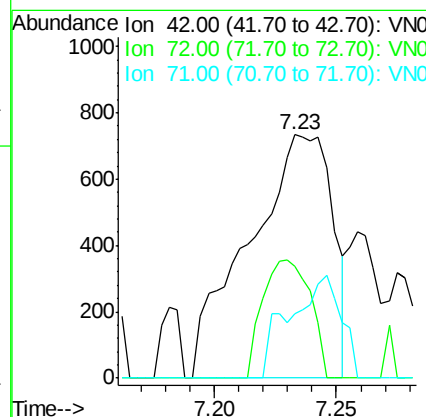
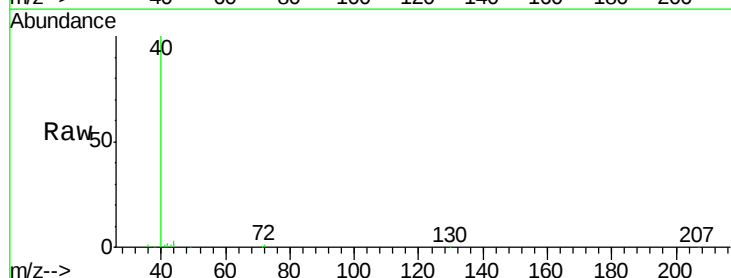
Instrument :
MSVOA_N
ClientSampled :

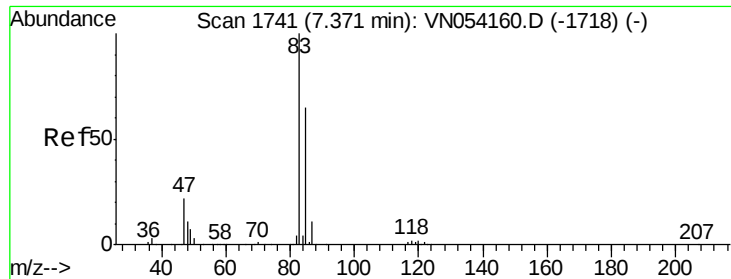
Tot Ion: 43 Resp: 154068
Ion Ratio Lower Upper
43 100
74 21.0 20.8 31.2



#29
Tetrahydrofuran
Concen: 0.414 ug/l
RT: 7.23 min Scan# 1698
Delta R.T. 0.01 min
Lab File: VN054415.D
Acq: 19 Mar 2019 1:50

Tgt Ion: 42 Resp: 1751
Ion Ratio Lower Upper
42 100
72 27.5 37.8 56.6#
71 6.1 36.2 54.2#

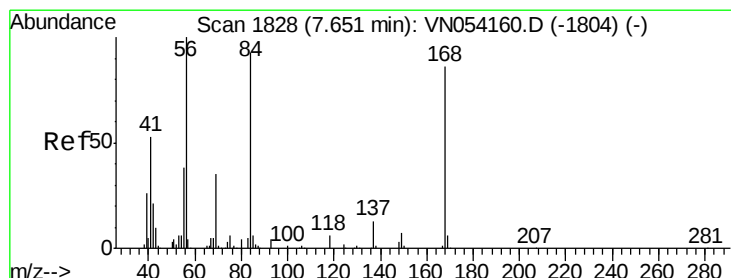
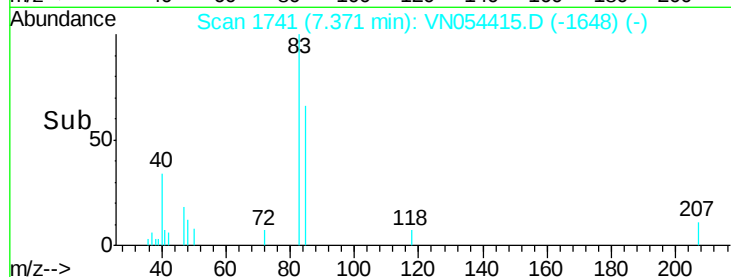
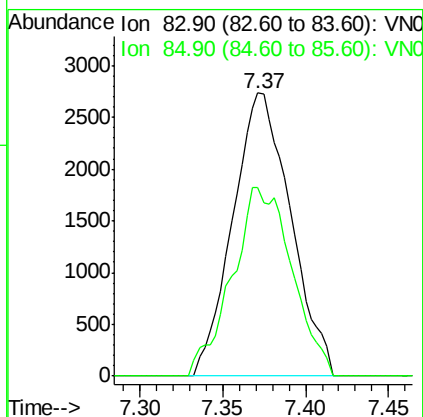
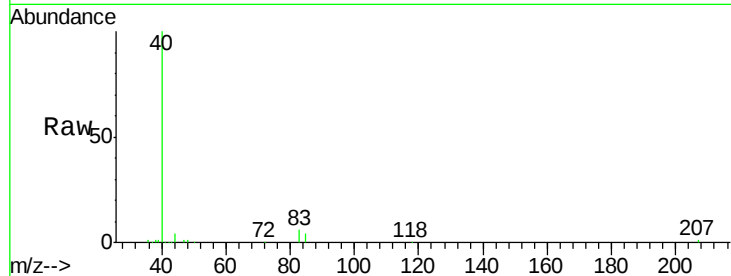




#30
Chloroform
Concen: 0.202 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054415.D
Acq: 19 Mar 2019 1:50

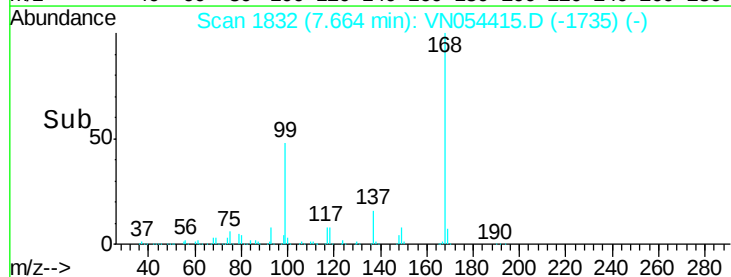
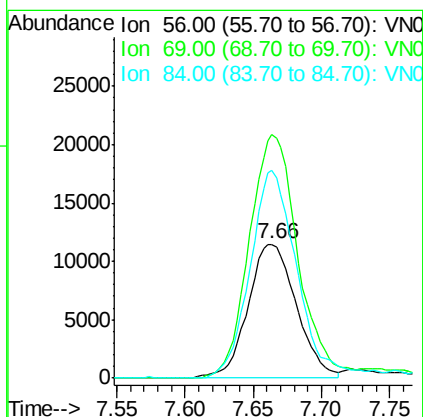
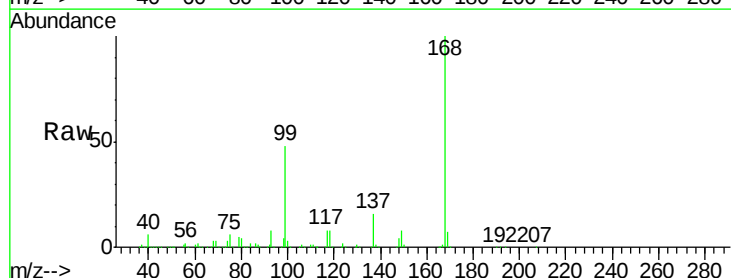
Instrument :
MSVOA_N
ClientSampleId :

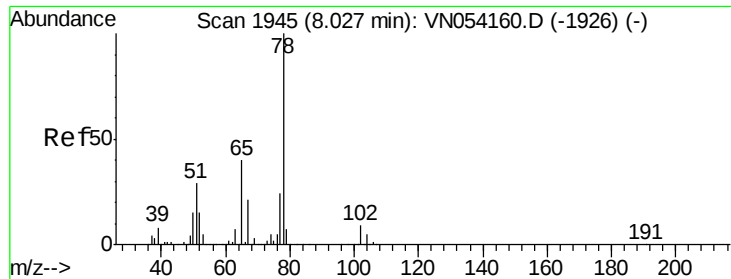
Tot Ion: 83 Resp: 6656
Ion Ratio Lower Upper
83 100
85 66.5 52.2 78.4



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054415.D
Acq: 19 Mar 2019 1:50

Tgt Ion: 56 Resp: 28256
Ion Ratio Lower Upper
56 100
69 182.2 27.8 41.6#
84 154.2 74.6 111.8#





#33

1,2-Dichloroethane-d4

Concen: 47.042 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054415.D

Acq: 19 Mar 2019 1:50

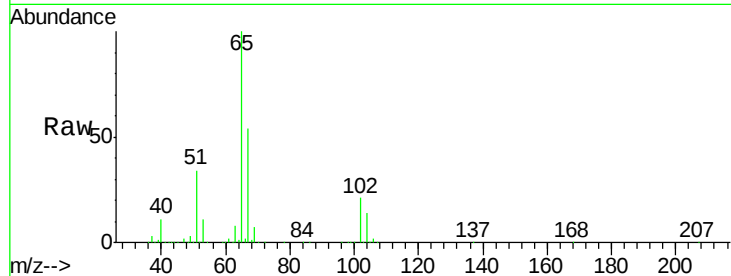
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 65 Resp: 921625

Ion Ratio Lower Upper

65 100

67 52.5 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN054415.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN054415.D (-1852) (-)

8.03

400000

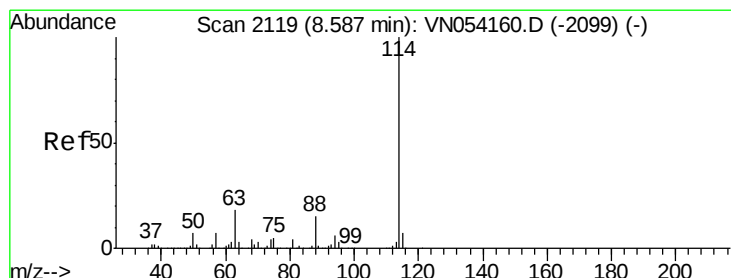
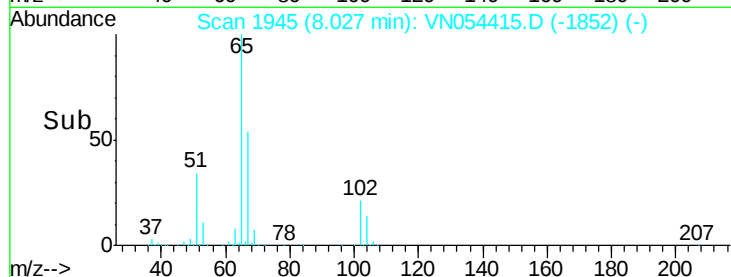
300000

200000

100000

0

Time--> 7.90 8.00 8.10 8.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054415.D

Acq: 19 Mar 2019 1:50

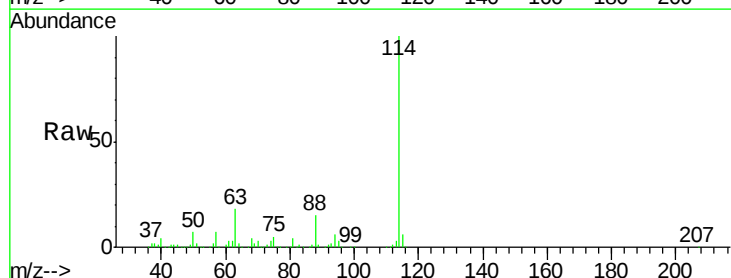
Tgt Ion: 114 Resp: 2721975

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.2

88 14.6 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): VN054415.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN054415.D (-2026) (-)

Ion 87.90 (87.60 to 88.60): VN054415.D (-2026) (-)

8.59

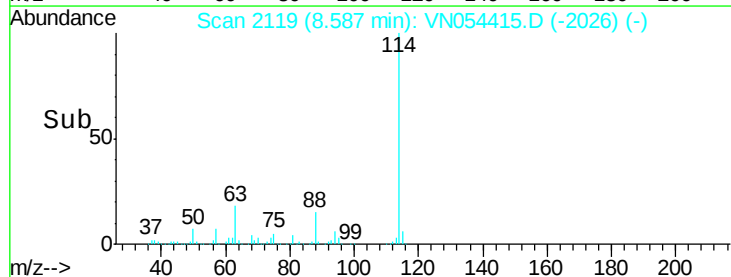
1500000

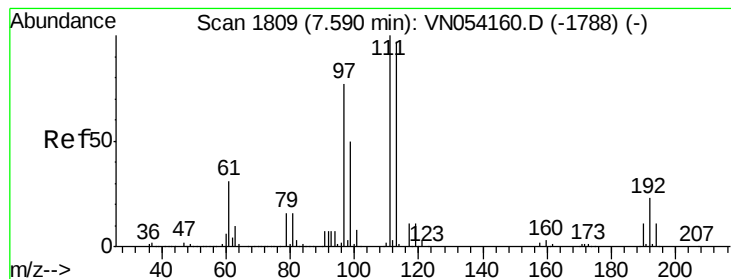
1000000

500000

0

Time--> 8.40 8.60 8.80





#35

Dibromofluoromethane

Concen: 47.641 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054415.D

Acq: 19 Mar 2019 1:50

Instrument :

MSVOA_N

ClientSampleId :

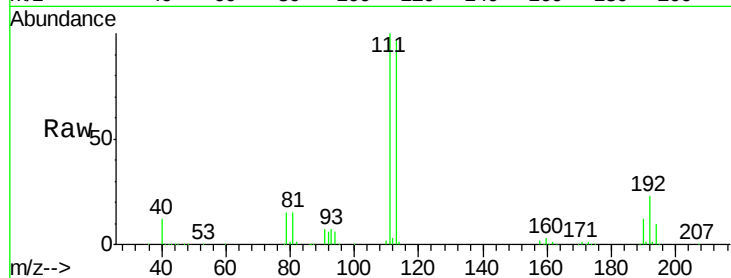
Tot Ion:113 Resp: 836368

Ion Ratio Lower Upper

113 100

111 103.1 82.2 123.4

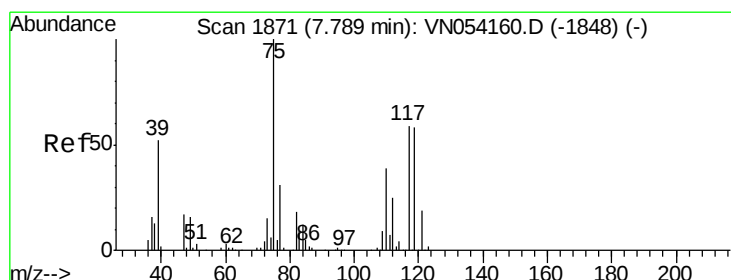
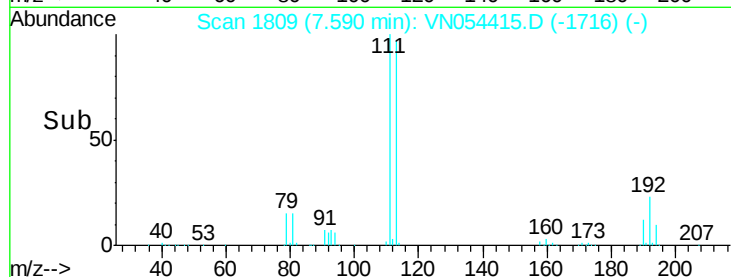
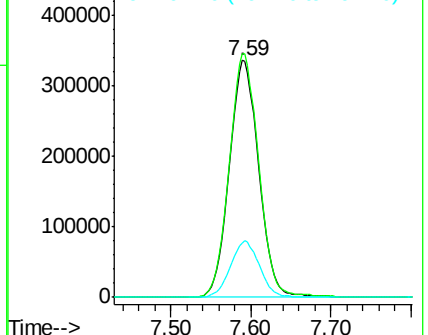
192 23.6 19.2 28.8



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: 4.484 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054415.D

Acq: 19 Mar 2019 1:50

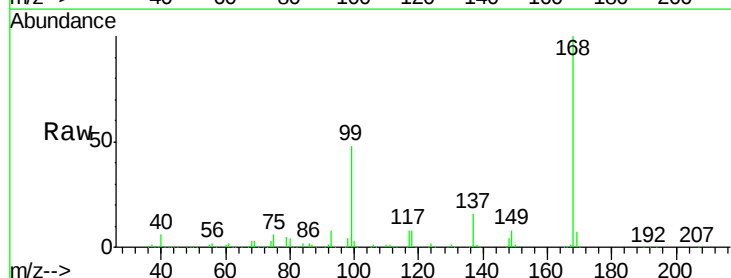
Tgt Ion: 75 Resp: 112407

Ion Ratio Lower Upper

75 100

110 9.6 19.1 57.5#

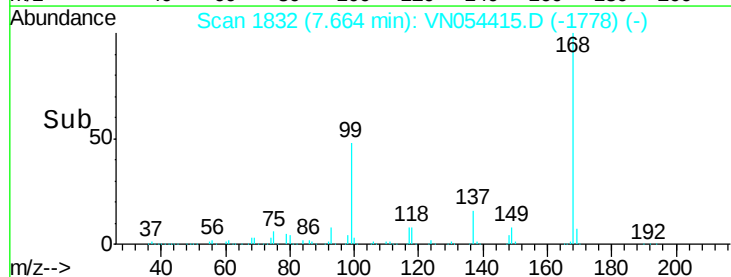
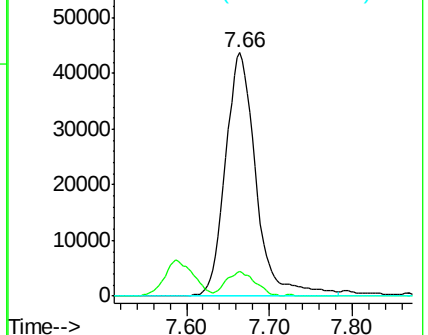
77 0.0 25.0 37.4#

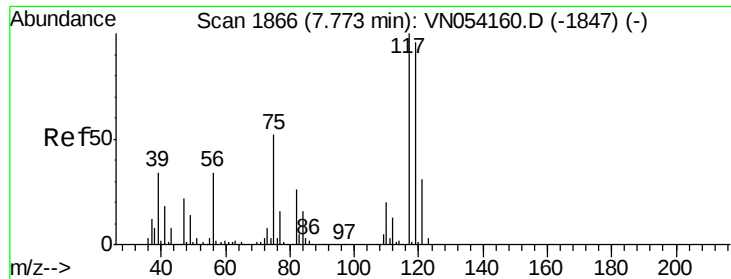


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

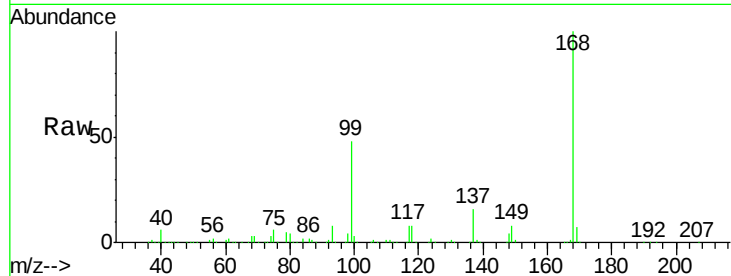




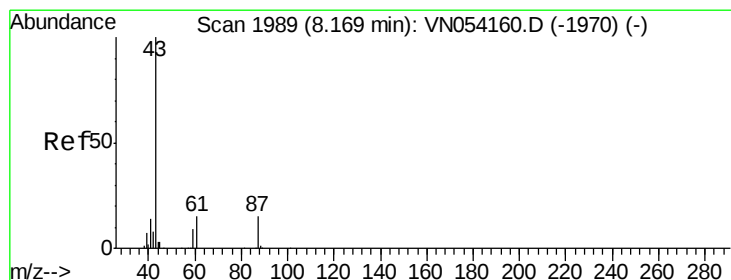
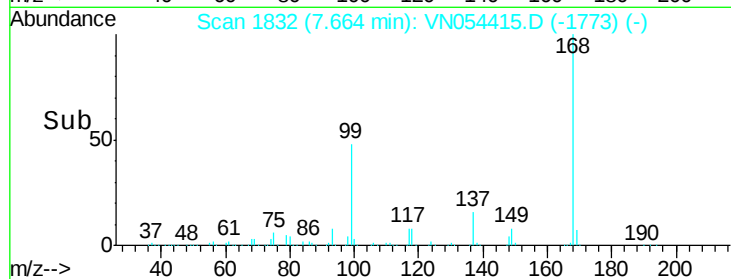
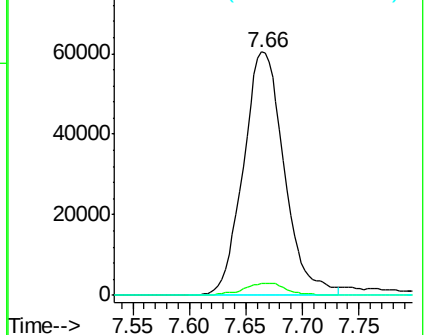
#38
Carbon Tetrachloride
Concen: 5.792 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN054415.D
Acq: 19 Mar 2019 1:50

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 152247
Ion Ratio Lower Upper
117 100
119 4.7 76.3 114.5#
121 0.0 24.6 36.8#

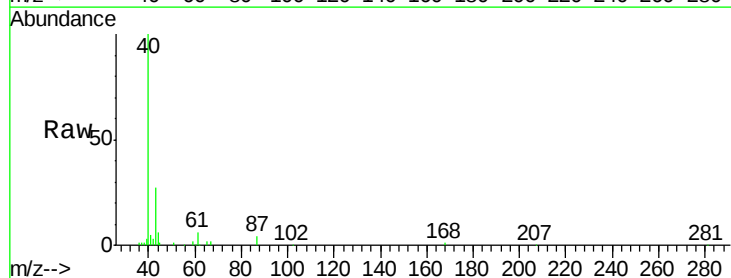


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

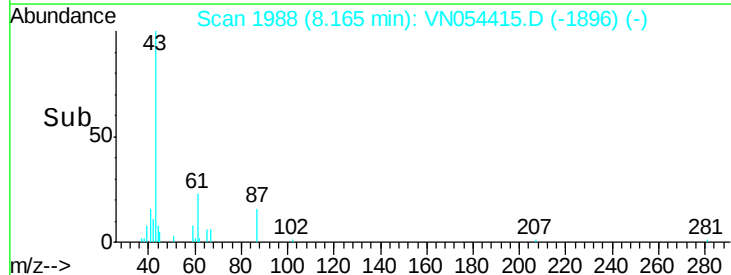
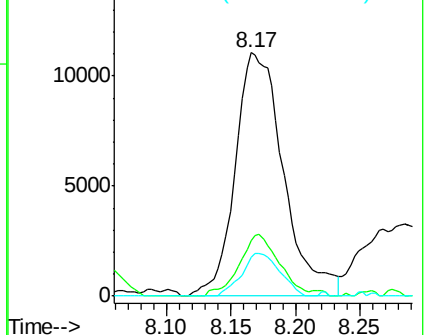


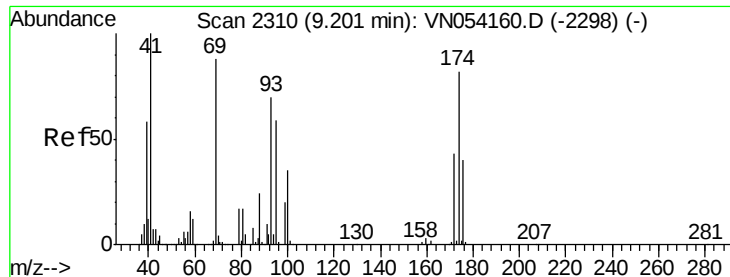
#43
Isopropyl Acetate
Concen: 1.143 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VN054415.D
Acq: 19 Mar 2019 1:50

Tgt Ion: 43 Resp: 28898
Ion Ratio Lower Upper
43 100
61 20.7 15.8 23.8
87 13.9 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

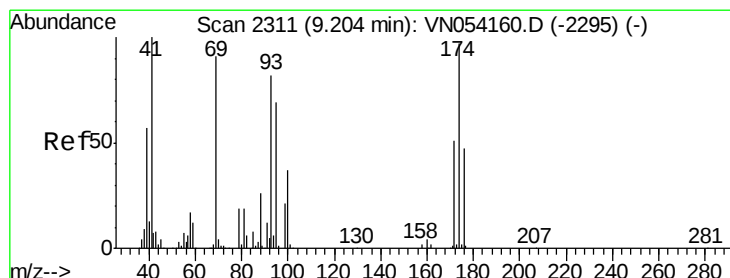
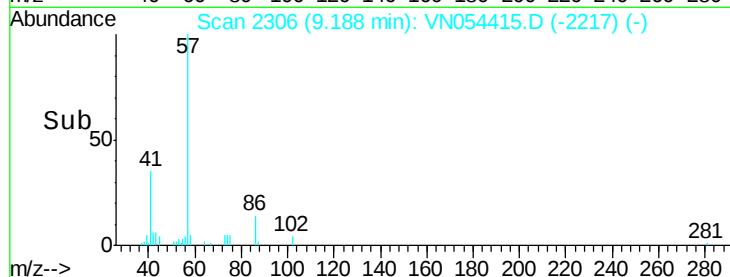
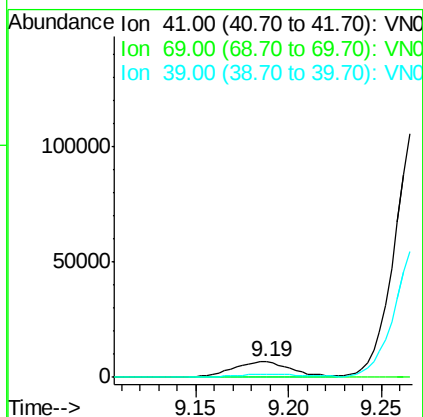
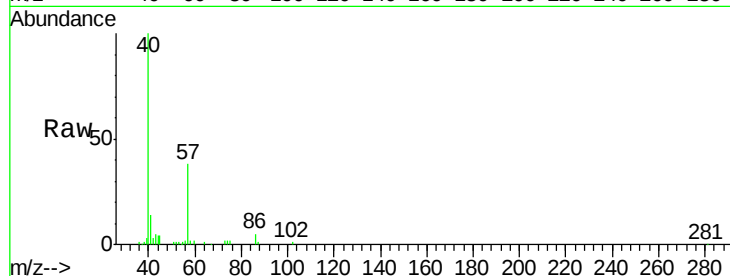




#48
Methvl methacrylate
Concen: 1.054 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.01 min
Lab File: VN054415.D
Acq: 19 Mar 2019 1:50

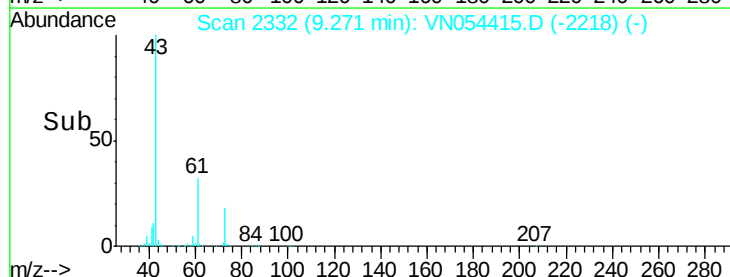
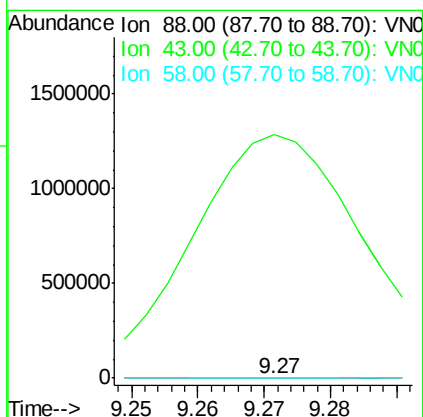
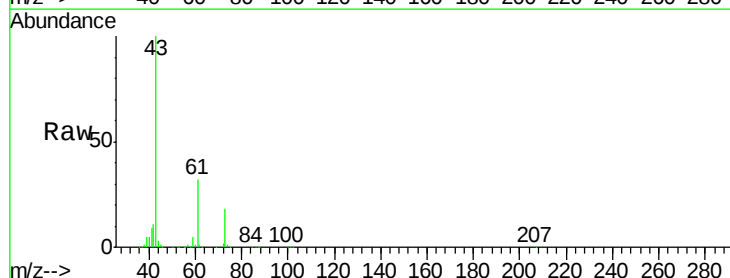
Instrument :
MSVOA_N
ClientSampleId :

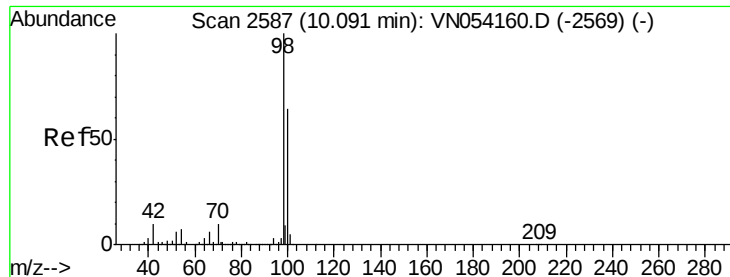
Tot Ion: 41 Resp: 13529
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#



#49
1,4-Dioxane
Concen: 1.686 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN054415.D
Acq: 19 Mar 2019 1:50

Tgt Ion: 88 Resp: 306
Ion Ratio Lower Upper
88 100
43 847416.7 24.1 36.1#
58 3543.1 50.8 76.2#





#50

Toluene-d8

Concen: 48.589 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054415.D

Acq: 19 Mar 2019 1:50

Instrument :

MSVOA_N

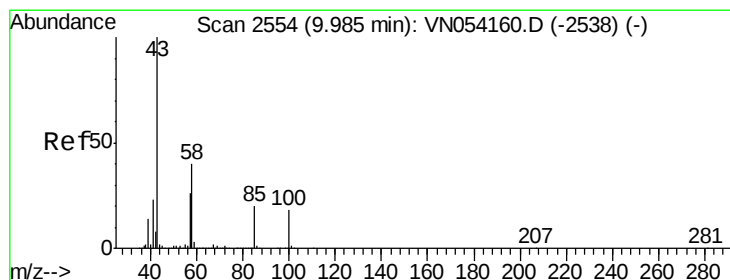
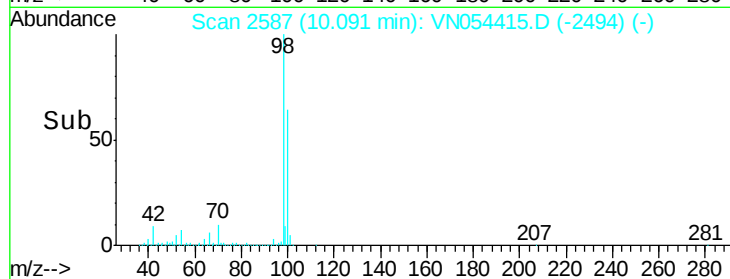
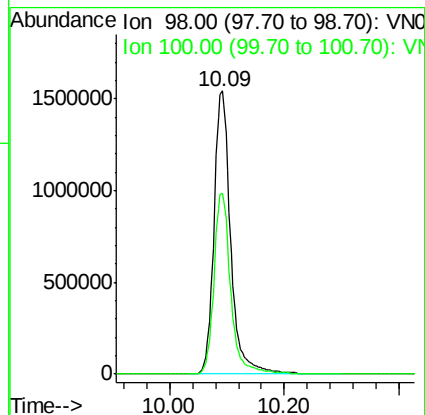
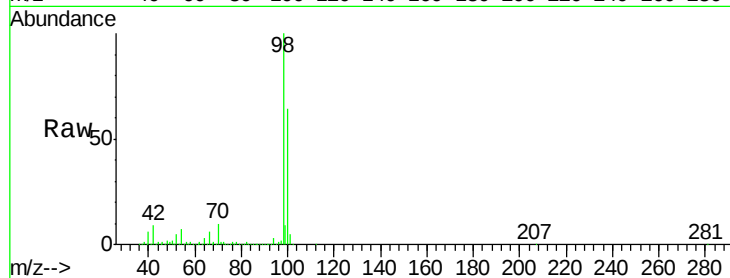
ClientSampleId :

Tot Ion: 98 Resp: 3150314

Ion Ratio Lower Upper

98 100

100 63.7 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 0.971 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN054415.D

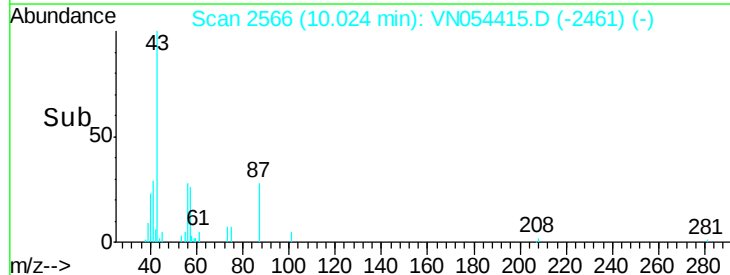
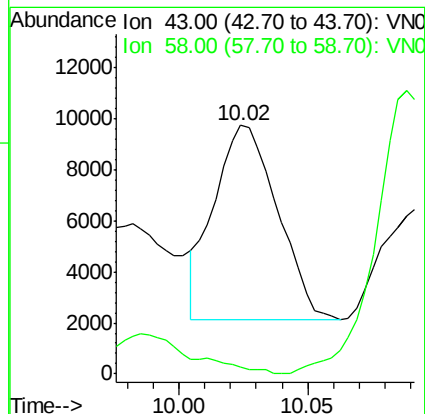
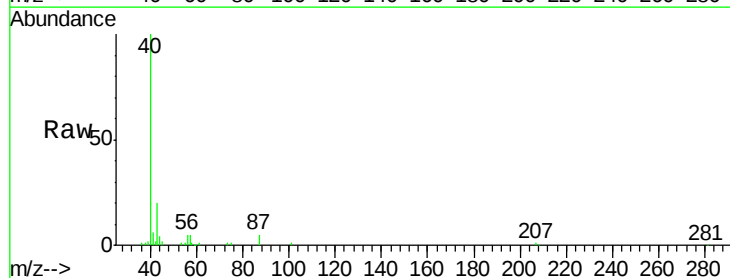
Acq: 19 Mar 2019 1:50

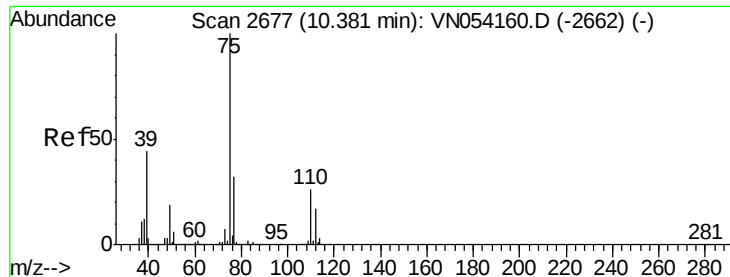
Tgt Ion: 43 Resp: 12990

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#





#53

t-1,3-Dichloropropene

Concen: 1.991 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.23 min

Lab File: VN054415.D

Acq: 19 Mar 2019 1:50

Instrument :

MSVOA_N

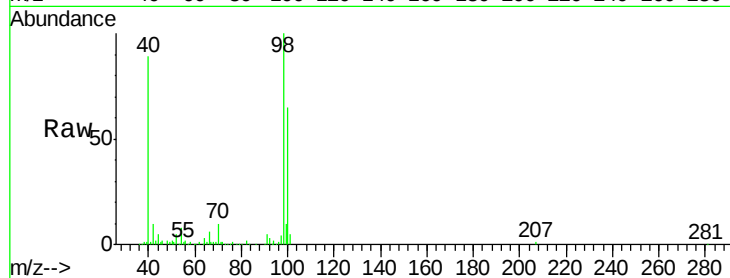
ClientSampled :

Tot Ion: 75 Resp: 133

Ion Ratio Lower Upper

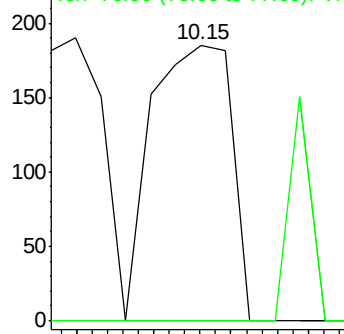
75 100

77 0.0 25.8 38.8#

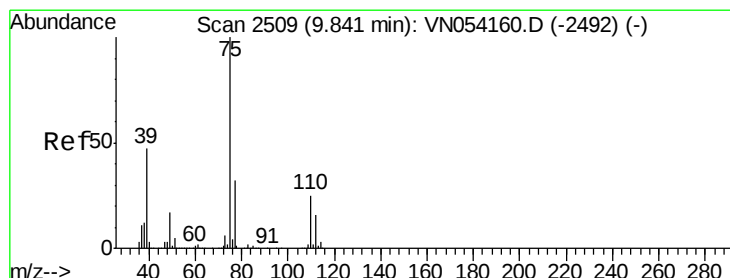
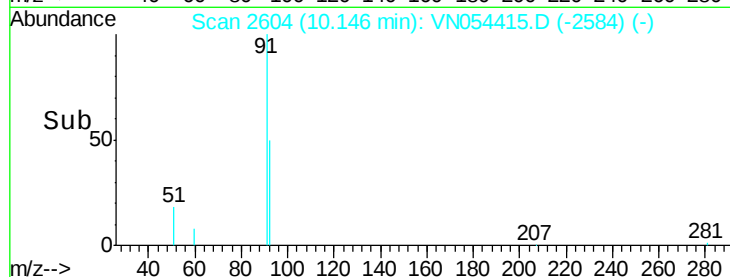


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



Time-->



#54

cis-1,3-Dichloropropene

Concen: 4.514 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054415.D

Acq: 19 Mar 2019 1:50

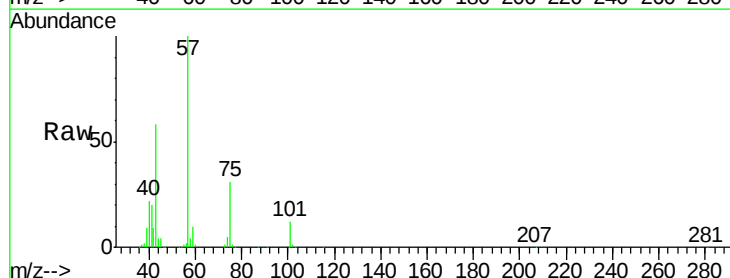
Tgt Ion: 75 Resp: 126923

Ion Ratio Lower Upper

75 100

77 0.3 25.4 38.0#

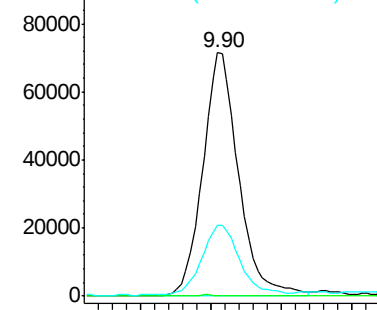
39 28.4 37.2 55.8#



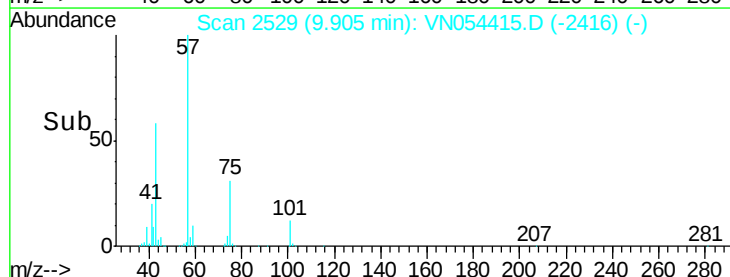
Abundance Ion 74.90 (74.60 to 75.60): VN0

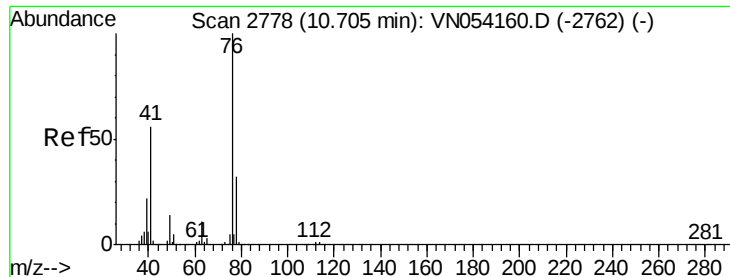
Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time-->





#57

1,3-Dichloropropane

Concen: 0.873 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054415.D

Acq: 19 Mar 2019 1:50

Instrument :

MSVOA_N

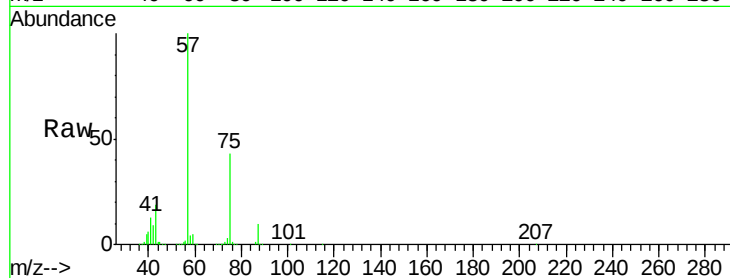
ClientSampleId :

Tot Ion: 76 Resp: 23701

Ion Ratio Lower Upper

76 100

78 0.3 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.77

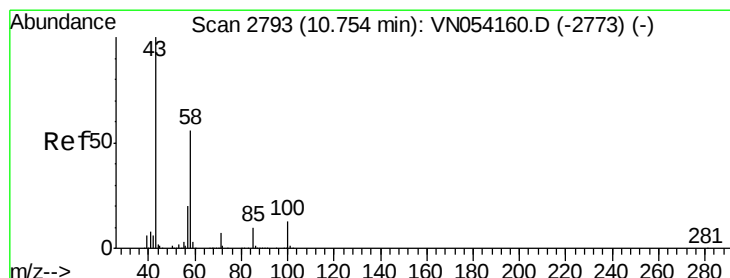
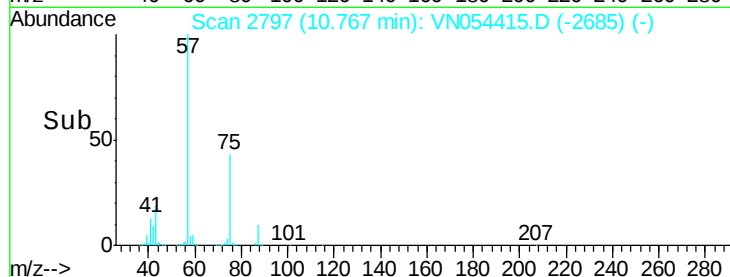
15000

10000

5000

0

Time-->



#59

2-Hexanone

Concen: 35.877 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054415.D

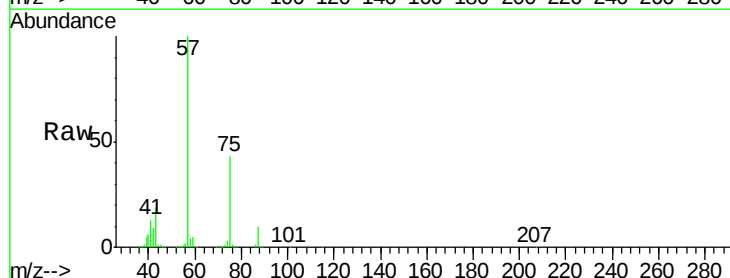
Acq: 19 Mar 2019 1:50

Tgt Ion: 43 Resp: 319397

Ion Ratio Lower Upper

43 100

58 19.3 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.77

200000

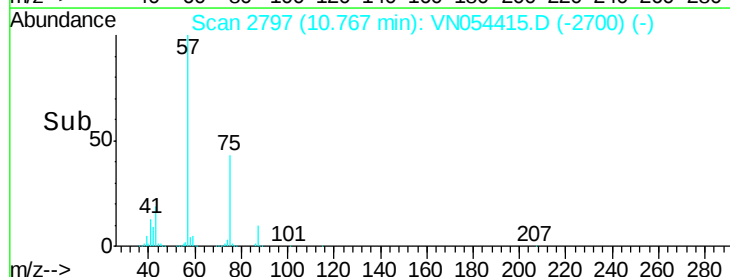
150000

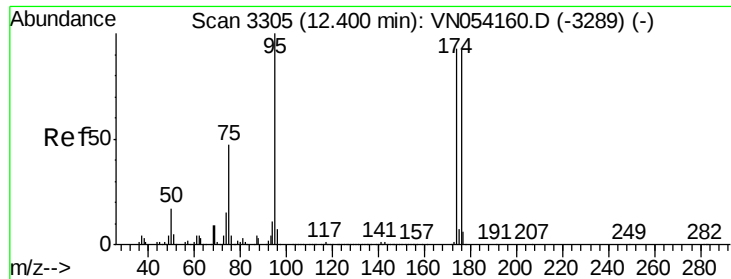
100000

50000

0

Time-->

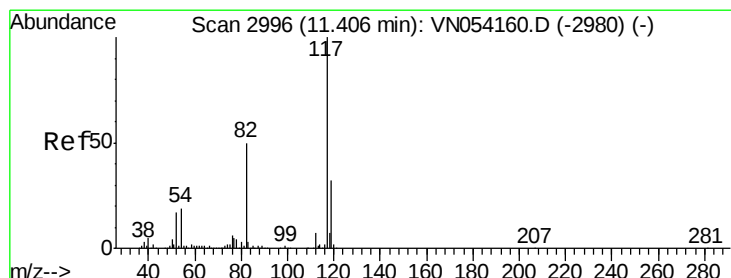
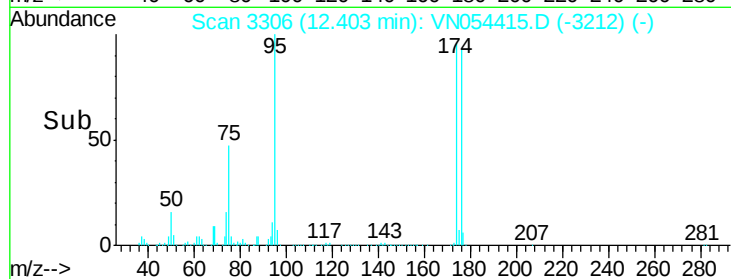
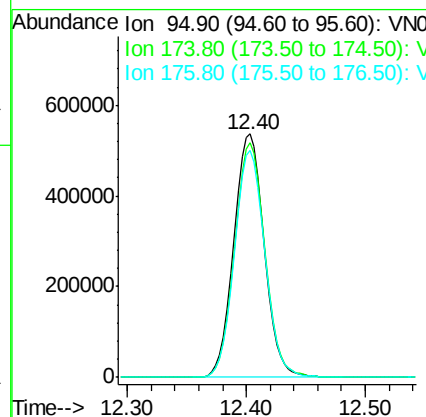
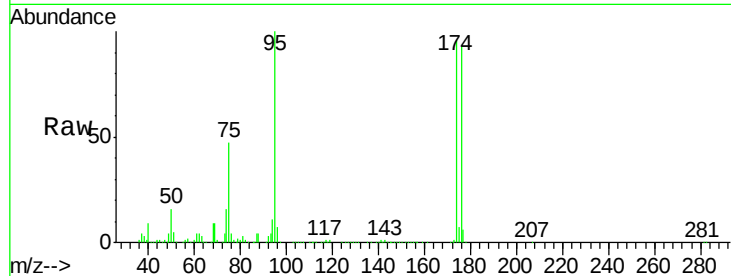




#62
4-Bromofluorobenzene
Concen: 41.894 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN054415.D
Acq: 19 Mar 2019 1:50

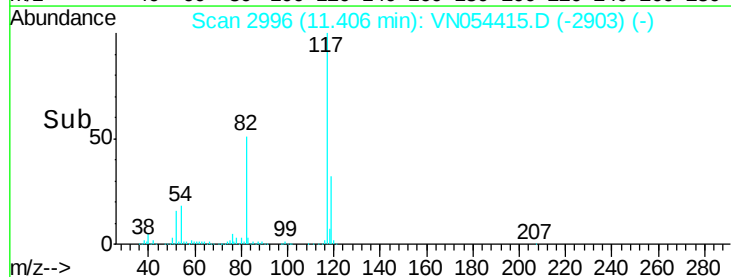
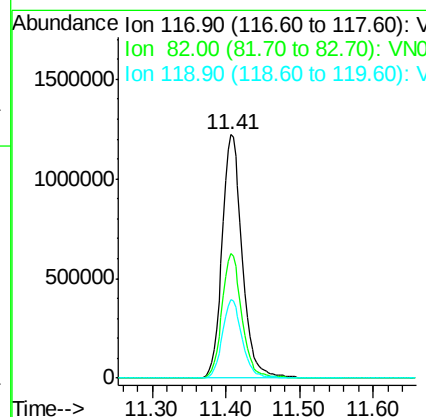
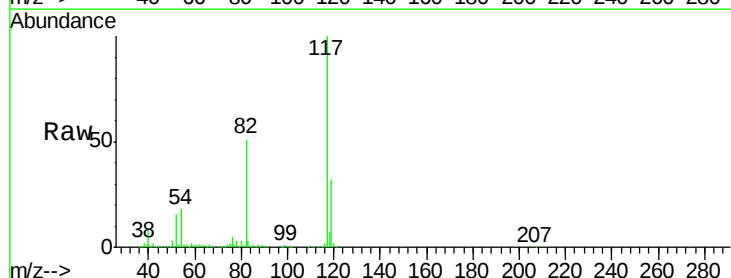
Instrument :
MSVOA_N
ClientSampleId :

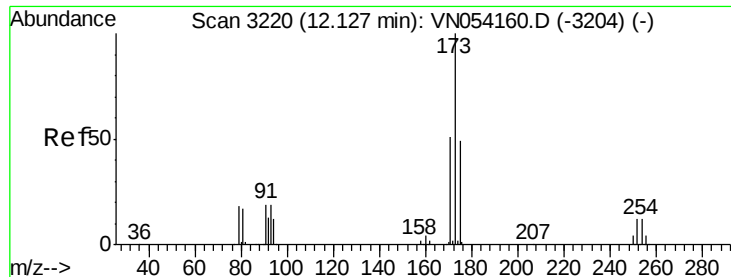
Tot Ion: 95 Resp: 950397
Ion Ratio Lower Upper
95 100
174 96.0 0.0 191.0
176 93.1 0.0 187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054415.D
Acq: 19 Mar 2019 1:50

Tgt Ion: 117 Resp: 2304928
Ion Ratio Lower Upper
117 100
82 50.9 40.0 60.0
119 32.0 25.8 38.6





#71

Bromoform

Concen: 2.744 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN054415.D

Acq: 19 Mar 2019 1:50

Instrument :

MSVOA_N

ClientSampled :

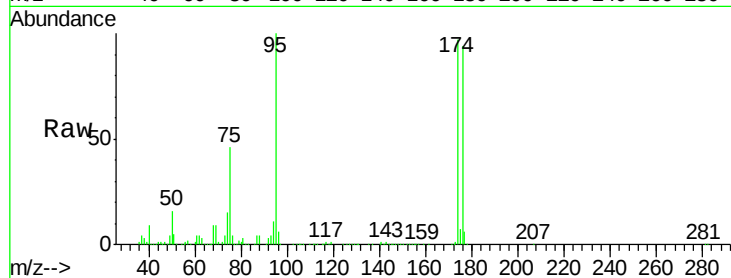
Tot Ion:173 Resp: 5779

Ion Ratio Lower Upper

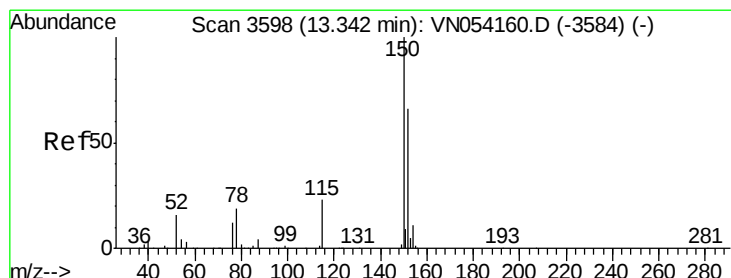
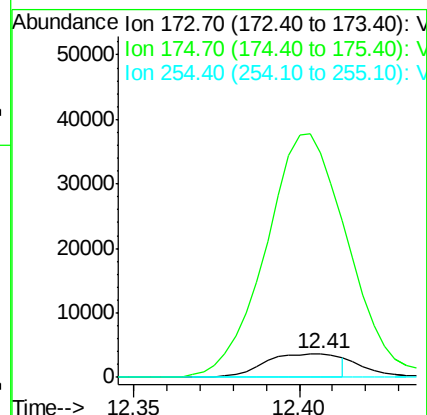
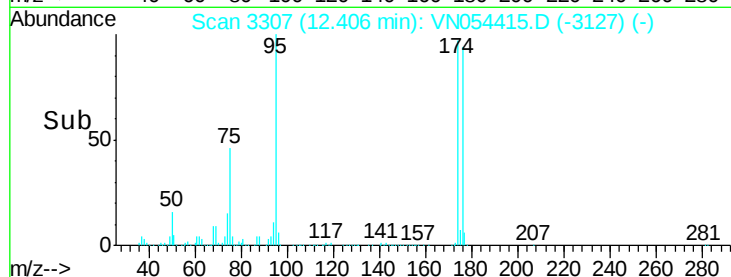
173 100

175 955.3 24.4 73.2#

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: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054415.D

Acq: 19 Mar 2019 1:50

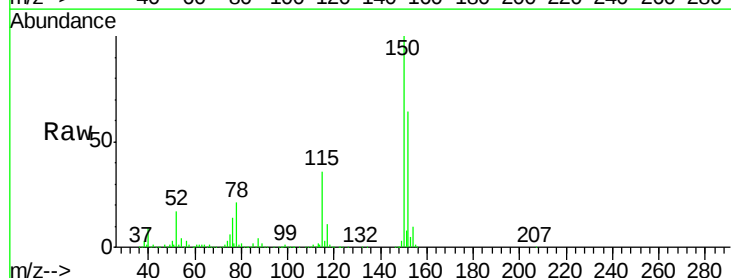
Tgt Ion:152 Resp: 861175

Ion Ratio Lower Upper

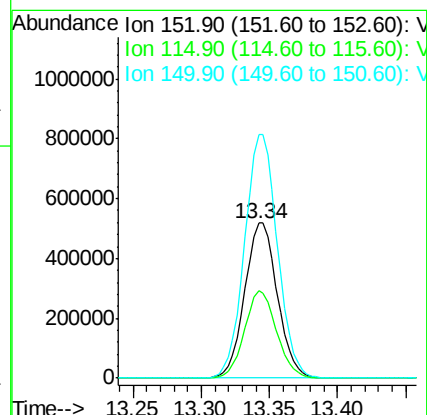
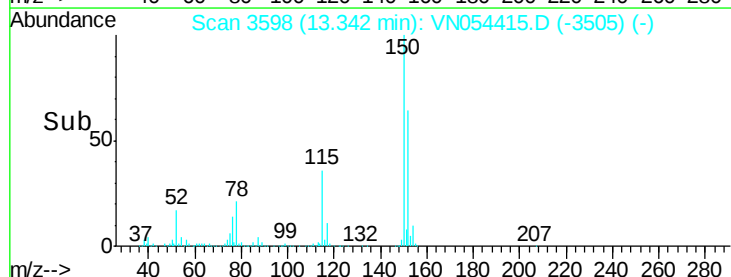
152 100

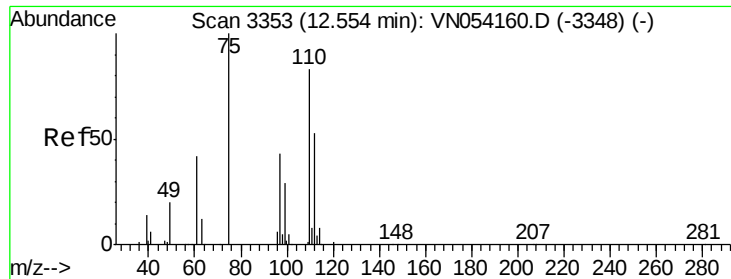
115 55.5 27.2 81.6

150 157.9 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





#76

1,2,3-Trichloropropane

Concen: 35.054 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054415.D

Acq: 19 Mar 2019 1:50

Instrument :

MSVOA_N

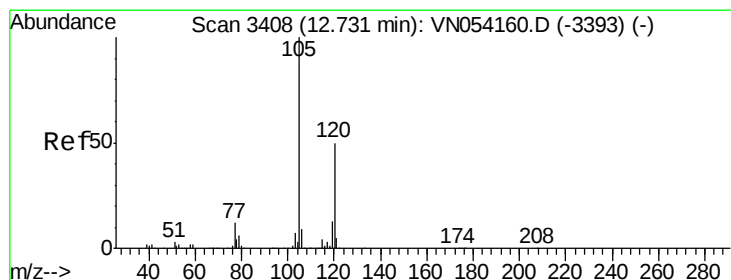
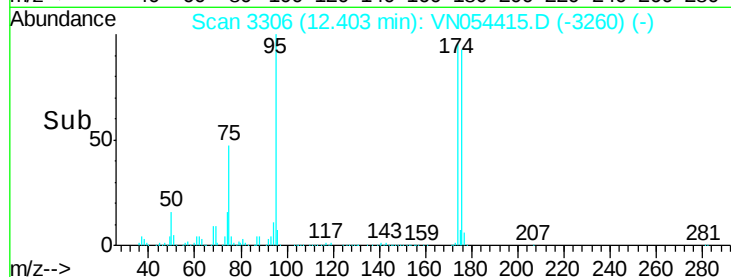
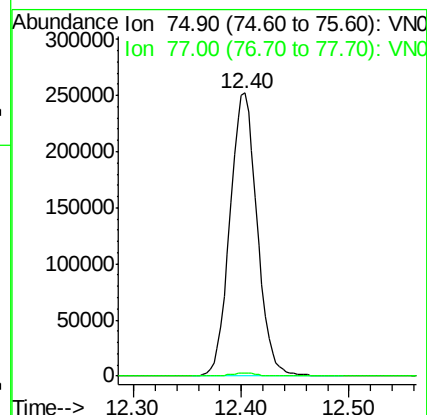
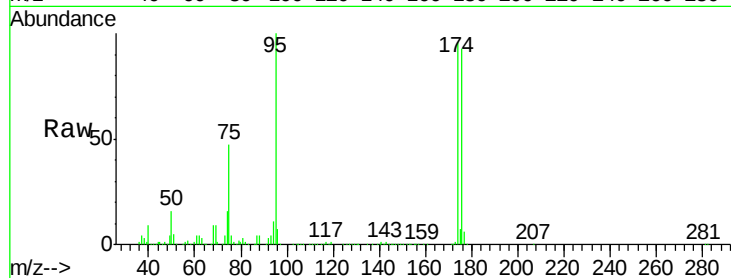
ClientSampled :

Tot Ion: 75 Resp: 443921

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.282 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054415.D

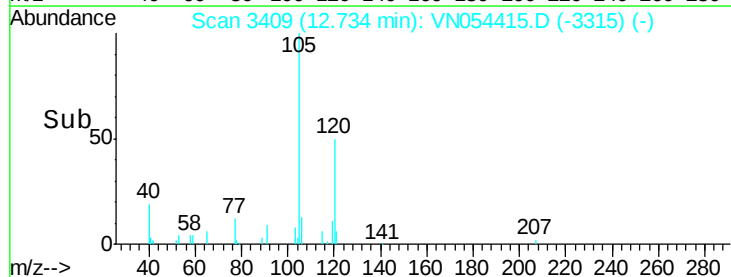
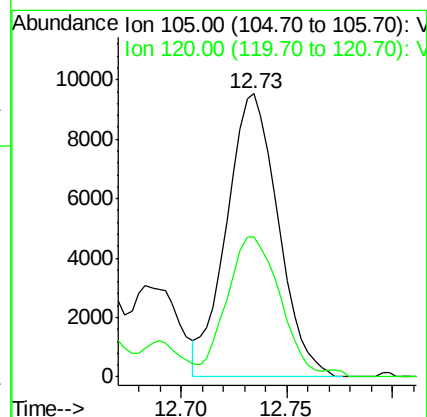
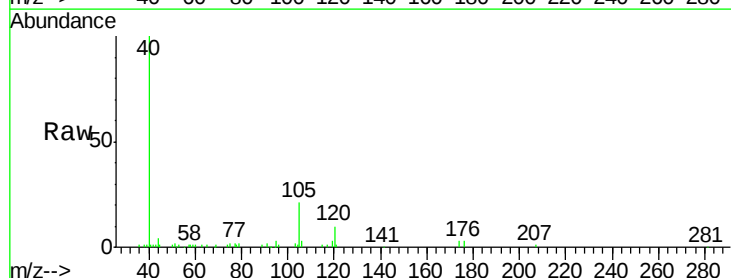
Acq: 19 Mar 2019 1:50

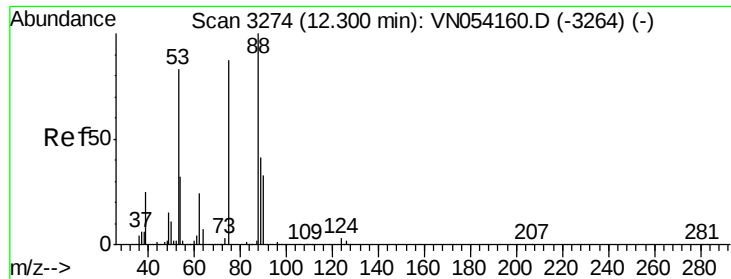
Tgt Ion: 105 Resp: 16180

Ion Ratio Lower Upper

105 100

120 47.4 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 119.830 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054415.D

Acq: 19 Mar 2019 1:50

Instrument :

MSVOA_N

ClientSampleId :

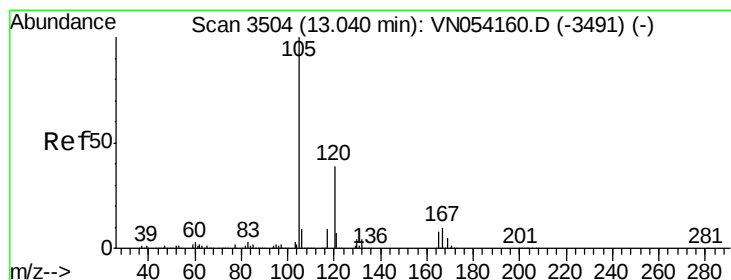
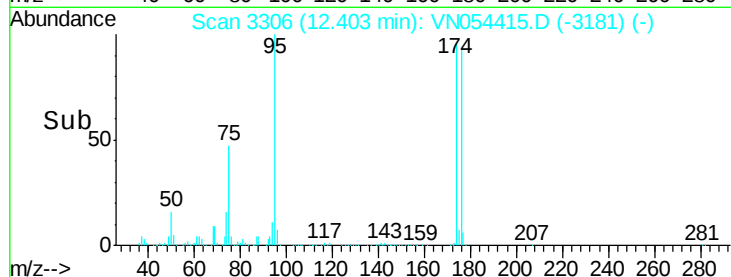
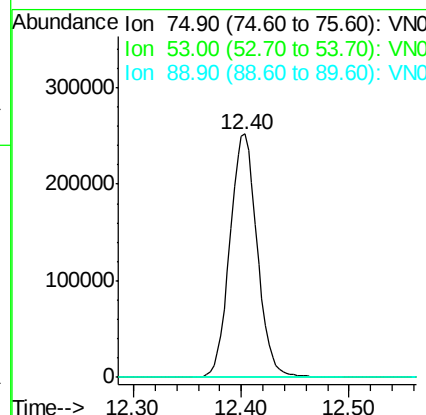
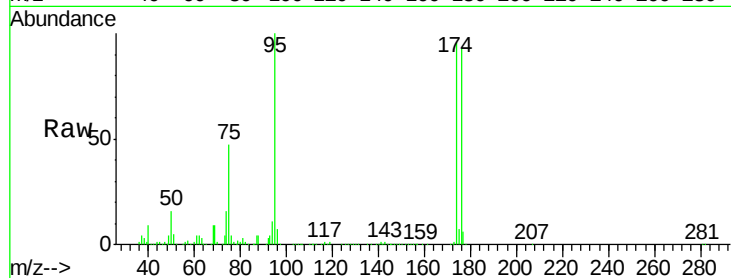
Tot Ion: 75 Resp: 443921

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



#84

1,2,4-Trimethylbenzene

Concen: 0.356 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054415.D

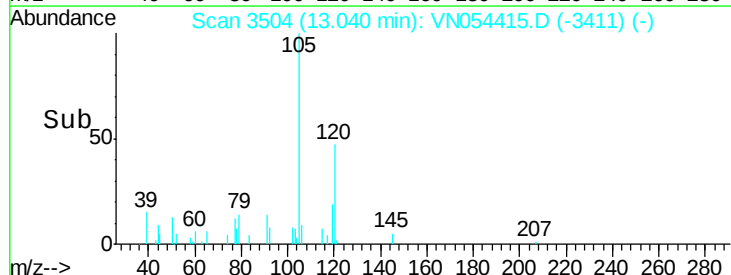
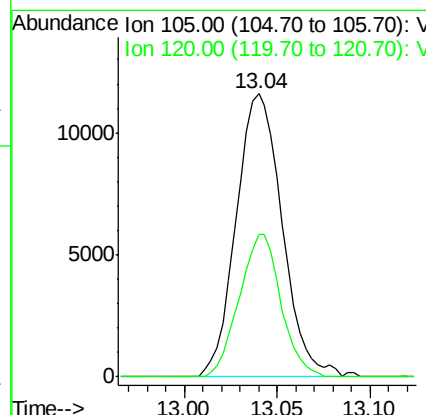
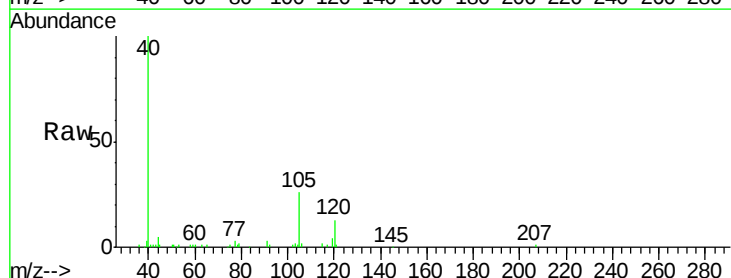
Acq: 19 Mar 2019 1:50

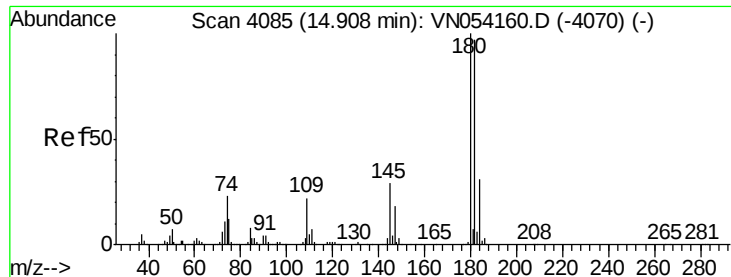
Tgt Ion: 105 Resp: 20004

Ion Ratio Lower Upper

105 100

120 45.5 23.4 70.3

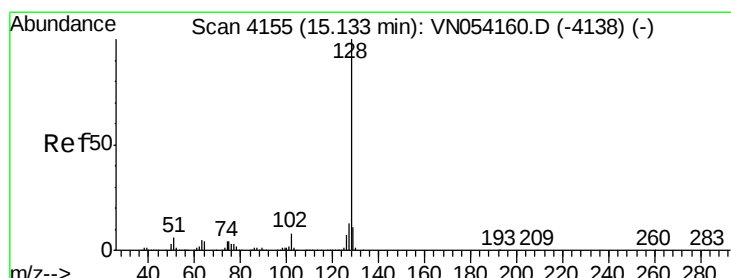
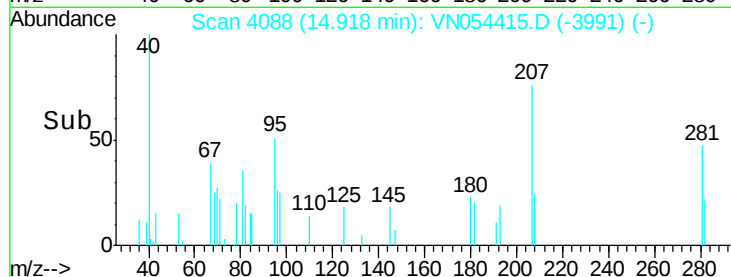
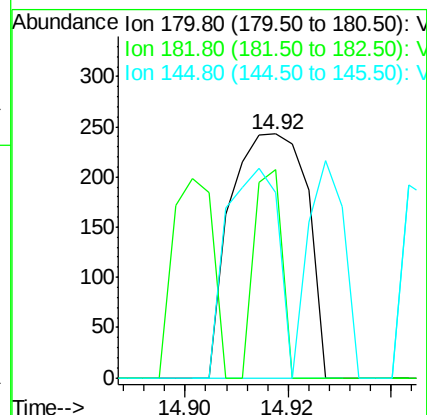
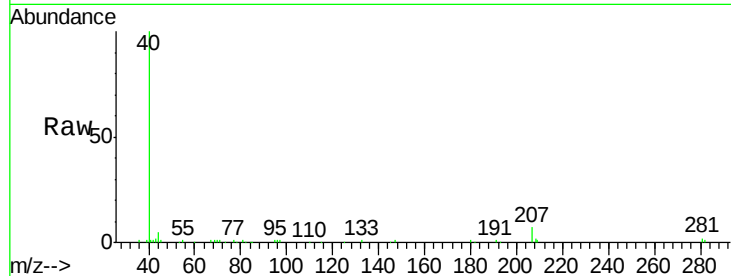




#93
 1,2,4-Trichlorobenzene
 Concen: 2.529 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.01 min
 Lab File: VN054415.D
 Acq: 19 Mar 2019 1:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 247
 Ion Ratio Lower Upper
 180 100
 182 31.6 48.0 144.2#
 145 58.7 14.2 42.8#



#95
 Naphthalene
 Concen: 3.847 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN054415.D
 Acq: 19 Mar 2019 1:50

Tgt Ion:128 Resp: 15322
 Ion Ratio Lower Upper
 128 100
 127 14.6 10.1 15.1
 129 12.2 8.7 13.1

