

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021119\
 Data File : VN053714.D
 Acq On : 11 Feb 2019 19:27
 Operator : JC/SP
 Sample : PB116968TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116968TB

Quant Time: Feb 11 22:12:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	710423	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1188873	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1089062	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	445504	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	384040	53.89	ug/l	0.00
Spiked Amount			Recovery	=	107.78%	
35) Dibromofluoromethane	7.59	113	373627	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
50) Toluene-d8	10.09	98	1437864	50.98	ug/l	0.00
Spiked Amount			Recovery	=	101.96%	
62) 4-Bromofluorobenzene	12.40	95	478882	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	

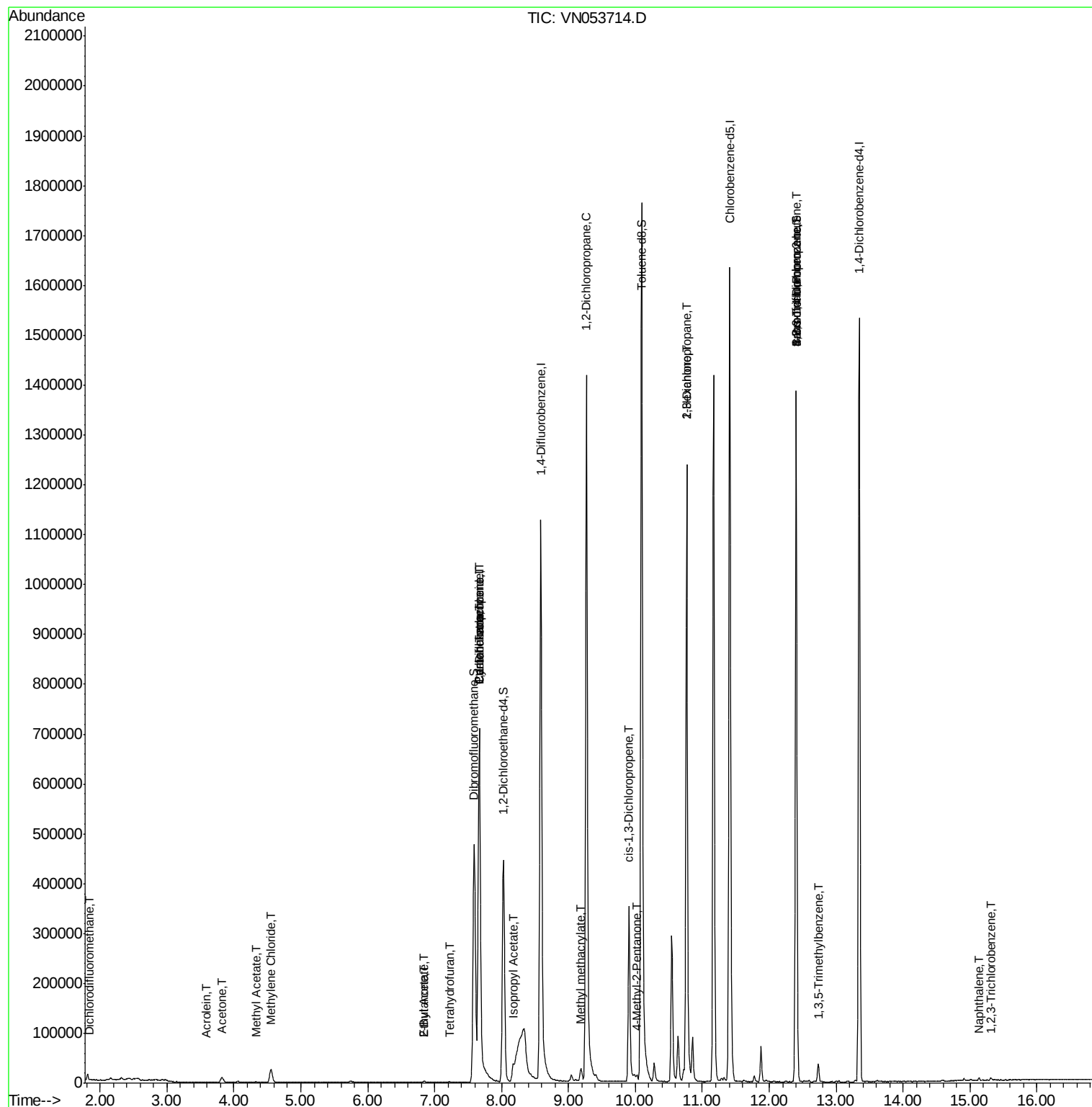
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	316	0.377	ug/l #	42
13) Acrolein	3.60	56	69	0.300	ug/l #	14
16) Acetone	3.82	43	19180	10.492	ug/l	97
18) Methyl Acetate	4.33	43	3181	0.588	ug/l #	70
20) Methylene Chloride	4.56	84	20431	2.664	ug/l	95
25) 2-Butanone	6.84	43	3645	1.398	ug/l	95
29) Tetrahydrofuran	7.23	42	1557	0.930	ug/l #	45
31) Cyclohexane	7.66	56	10346	0.691	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	42312	3.948	ug/l #	48
37) Ethyl Acetate	6.84	43	3645	0.609	ug/l #	70
38) Carbon Tetrachloride	7.67	117	58249	5.395	ug/l #	16
43) Isopropyl Acetate	8.17	43	36852	3.188	ug/l #	80
45) 1,2-Dichloropropane	9.27	63	1860	0.220	ug/l #	43
48) Methyl methacrylate	9.18	41	10482	1.900	ug/l #	12
51) 4-Methyl-2-Pentanone	10.03	43	8698	1.531	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	74659	5.939	ug/l #	62
57) 1,3-Dichloropropane	10.77	76	14287	1.183	ug/l #	43
59) 2-Hexanone	10.76	43	184626	47.878	ug/l #	51
71) Bromoform	12.40	173	3384	0.611	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	222378	38.862	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	20139	0.775	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	222378	109.277	ug/l #	15
95) Naphthalene	15.14	128	4336	1.950	ug/l #	87
96) 1,2,3-Trichlorobenzene	15.31	180	2015	0.261	ug/l	92

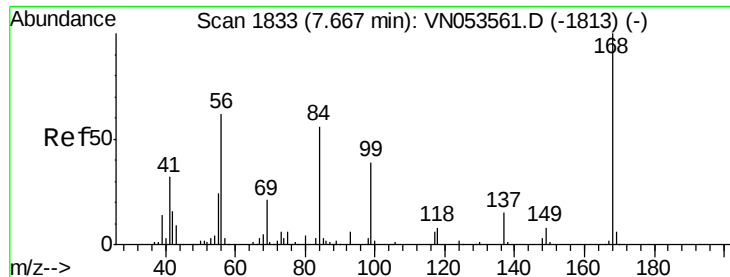
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN021119\
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PB116968TB

Quant Time: Feb 11 22:12:22 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 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: VN053714.D

Acq: 11 Feb 2019 19:27

Instrument :

MSVOA_N

ClientSampled :

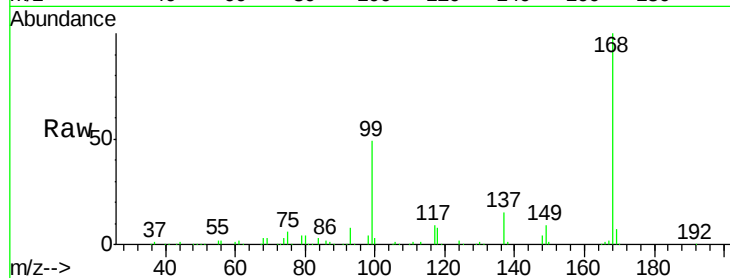
PB116968TB

Tot Ion:168 Resp: 710423

Ion Ratio Lower Upper

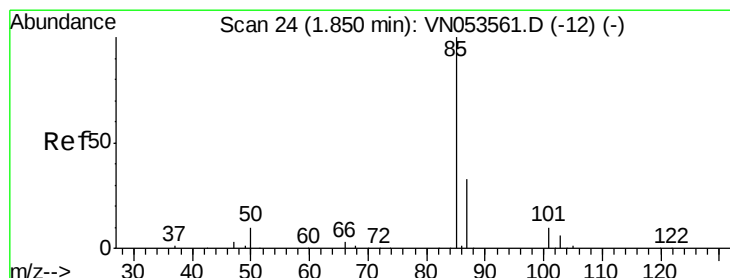
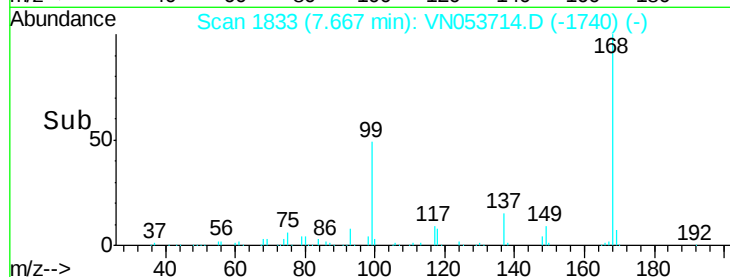
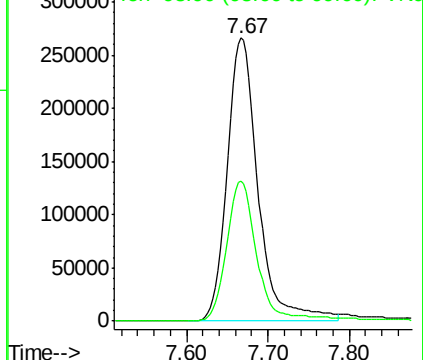
168 100

99 49.3 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 0.377 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN053714.D

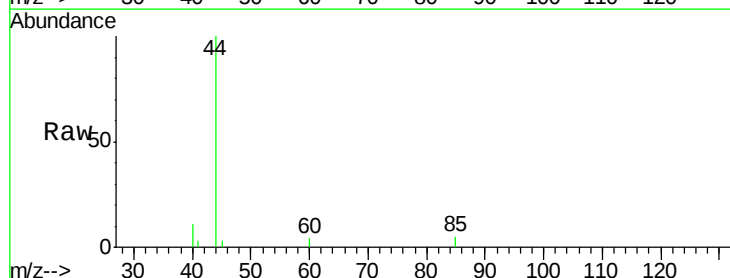
Acq: 11 Feb 2019 19:27

Tgt Ion: 85 Resp: 316

Ion Ratio Lower Upper

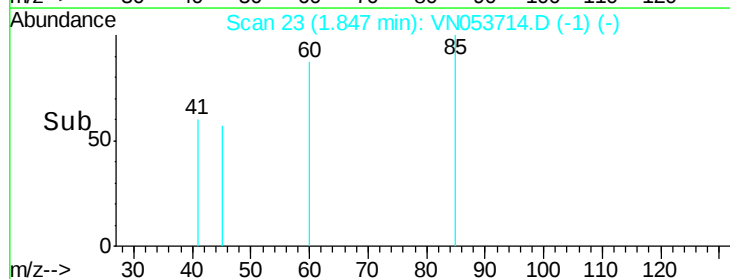
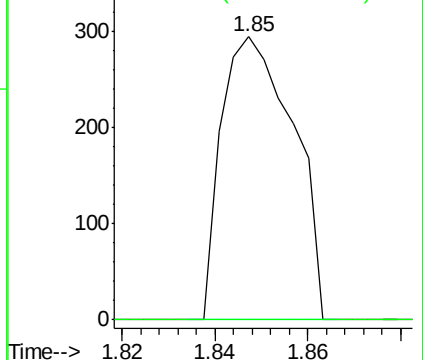
85 100

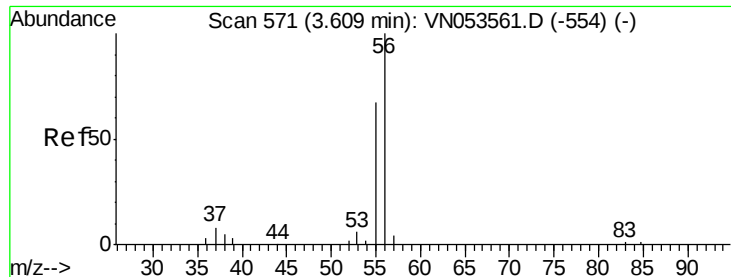
87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#13

Acrolein

Concen: 0.300 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN053714.D

Acq: 11 Feb 2019 19:27

Instrument :

MSVOA_N

ClientSampleId :

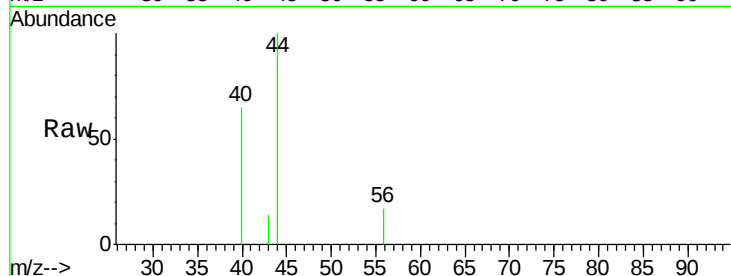
PB116968TB

Tot Ion: 56 Resp: 69

Ion Ratio Lower Upper

56 100

55 0.0 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.60

200

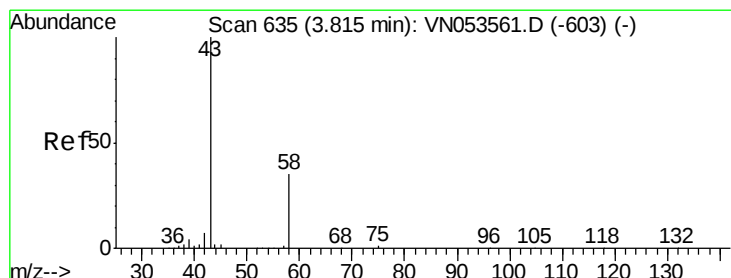
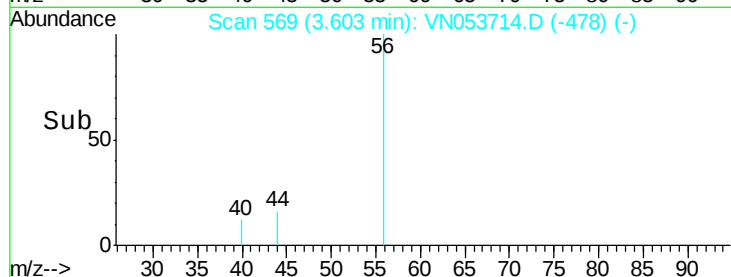
150

100

50

0

Time--> 3.59 3.60 3.61



#16

Acetone

Concen: 10.492 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053714.D

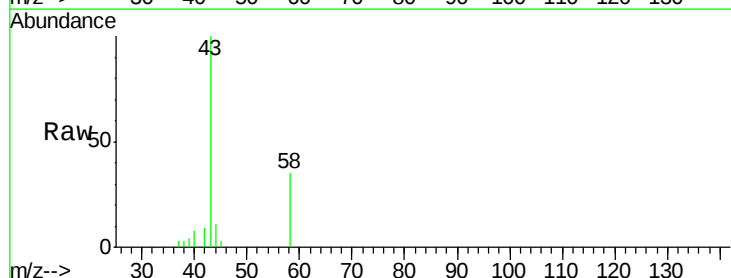
Acq: 11 Feb 2019 19:27

Tgt Ion: 43 Resp: 19180

Ion Ratio Lower Upper

43 100

58 35.3 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

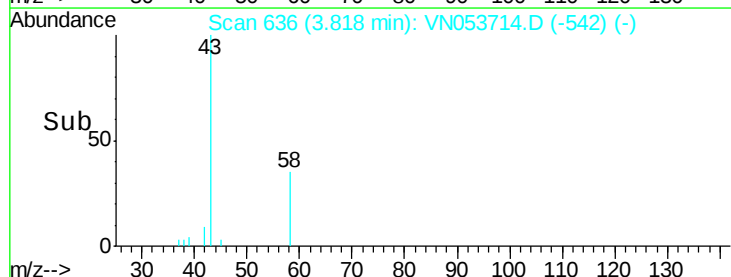
6000

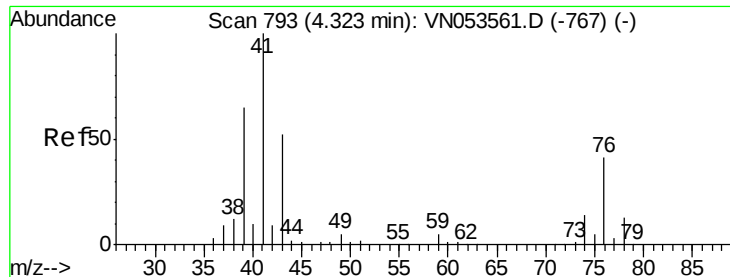
4000

2000

0

Time--> 3.75 3.80 3.85 3.90

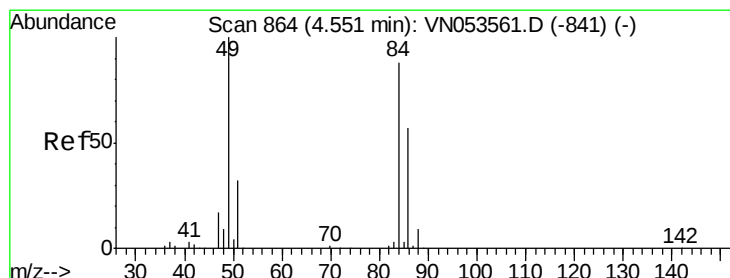
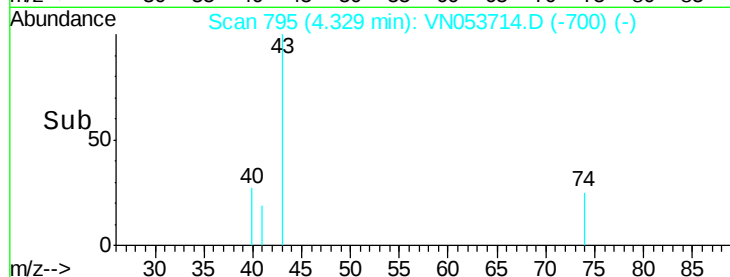
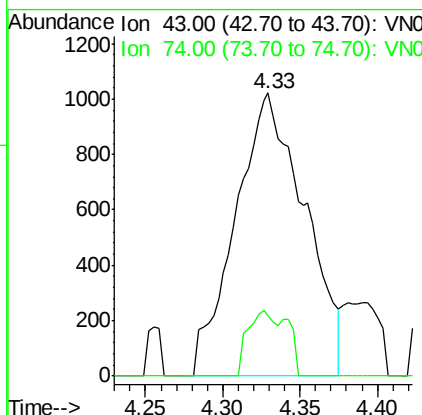
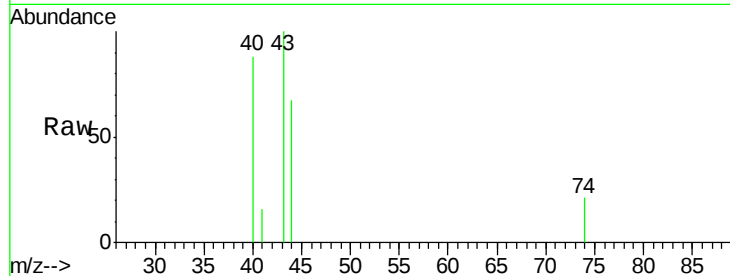




#18
Methyl Acetate
Concen: 0.588 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN053714.D
Acq: 11 Feb 2019 19:27

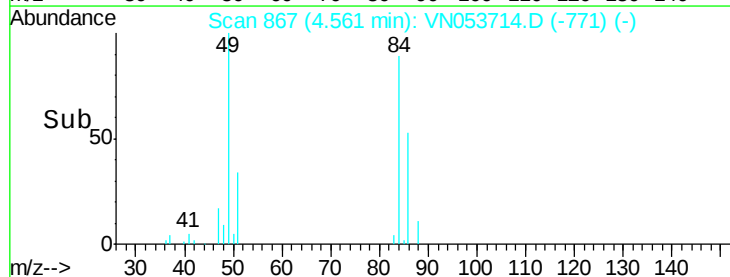
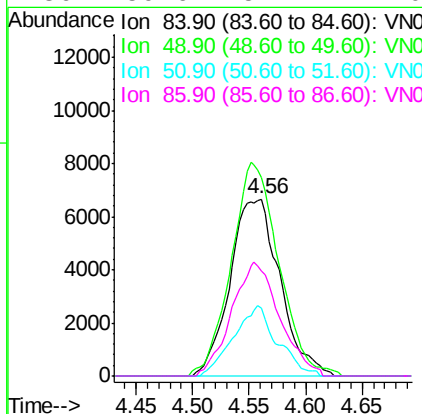
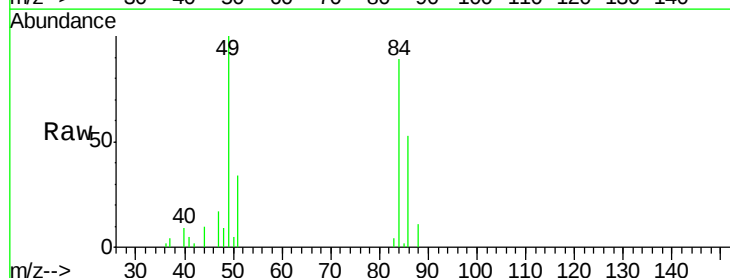
Instrument :
MSVOA_N
ClientSampled :
PB116968TB

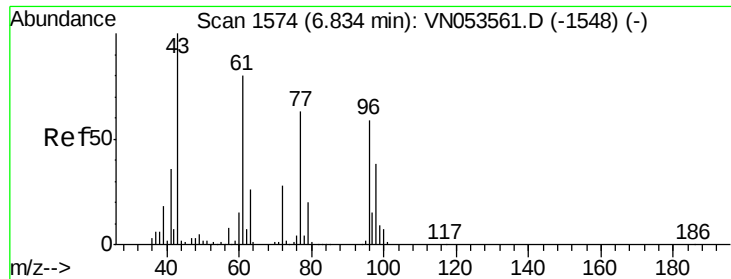
Tot Ion: 43 Resp: 3181
Ion Ratio Lower Upper
43 100
74 9.6 19.4 29.2#



#20
Methylene Chloride
Concen: 2.664 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN053714.D
Acq: 11 Feb 2019 19:27

Tgt Ion: 84 Resp: 20431
Ion Ratio Lower Upper
84 100
49 112.6 94.3 141.5
51 38.2 29.4 44.2
86 59.6 51.4 77.0

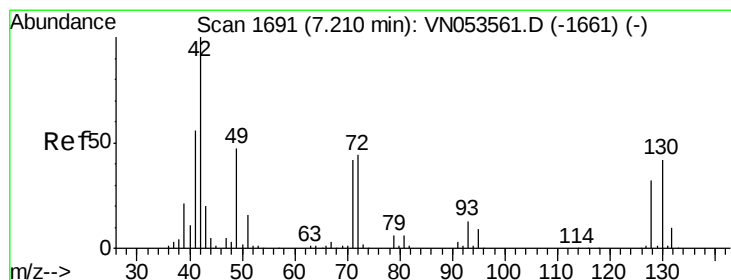
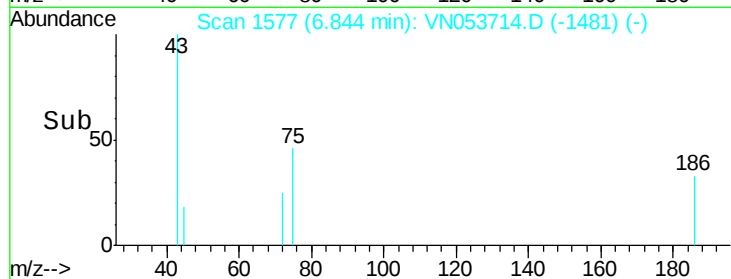
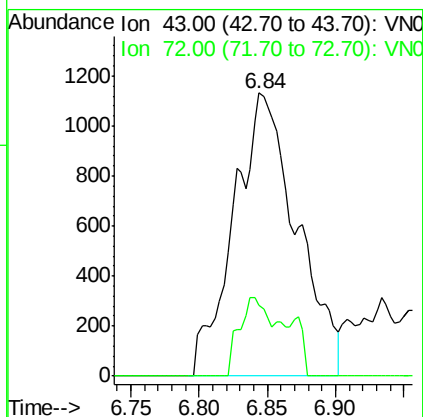
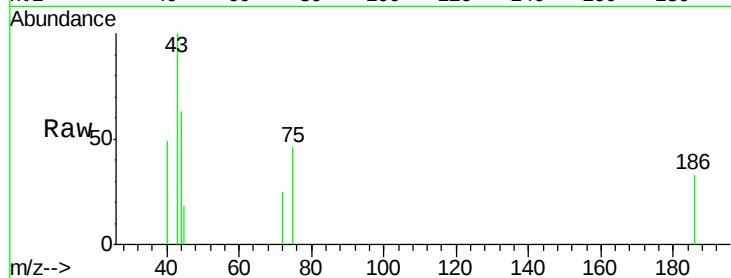




#25
 2-Butanone
 Concen: 1.398 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.01 min
 Lab File: VN053714.D
 Acq: 11 Feb 2019 19:27

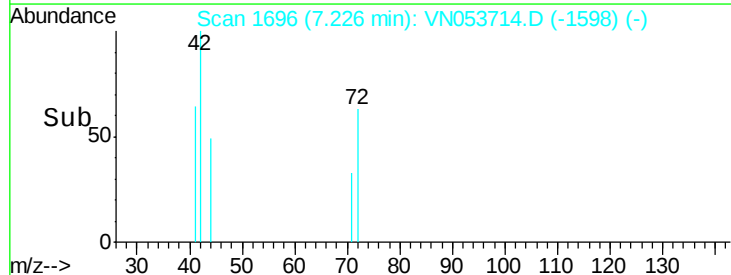
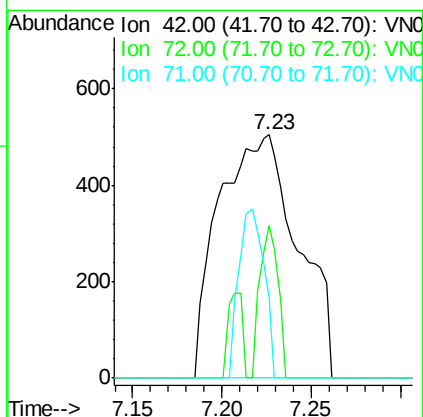
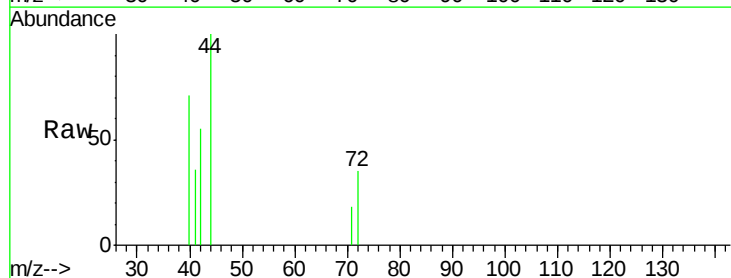
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116968TB

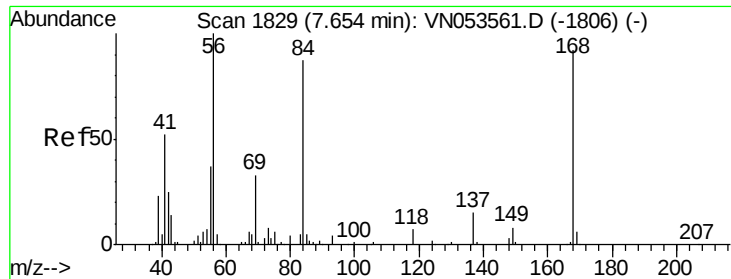
Tot Ion: 43 Resp: 3645
 Ion Ratio Lower Upper
 43 100
 72 25.1 22.0 33.0



#29
 Tetrahydrofuran
 Concen: 0.930 ug/l
 RT: 7.23 min Scan# 1696
 Delta R.T. 0.02 min
 Lab File: VN053714.D
 Acq: 11 Feb 2019 19:27

Tgt Ion: 42 Resp: 1557
 Ion Ratio Lower Upper
 42 100
 72 14.8 35.2 52.8#
 71 0.0 33.0 49.4#





#31

Cyclohexane

Concen: 0.691 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053714.D

Acq: 11 Feb 2019 19:27

Instrument :

MSVOA_N

ClientSampleID :

PB116968TB

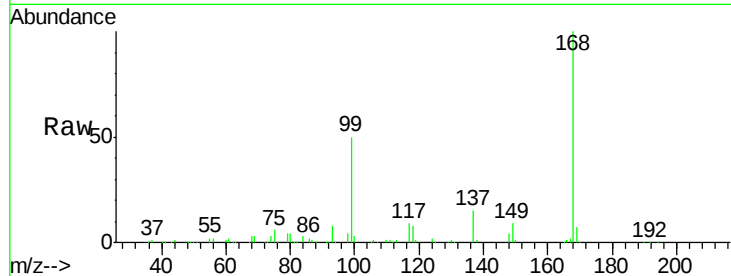
Tot Ion: 56 Resp: 10346

Ion Ratio Lower Upper

56 100

69 182.5 26.4 39.6#

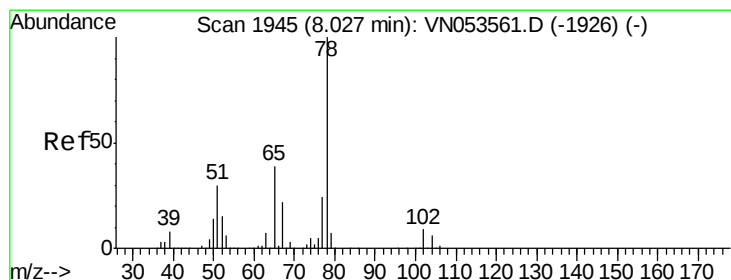
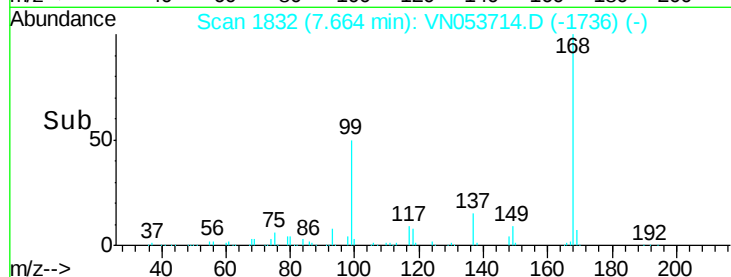
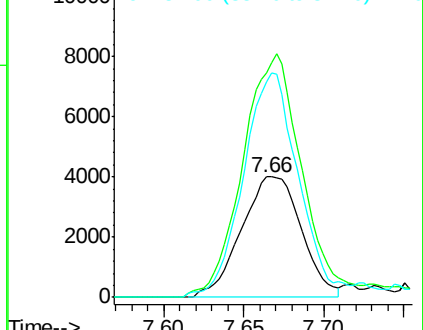
84 174.7 67.9 101.9#



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: 53.886 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053714.D

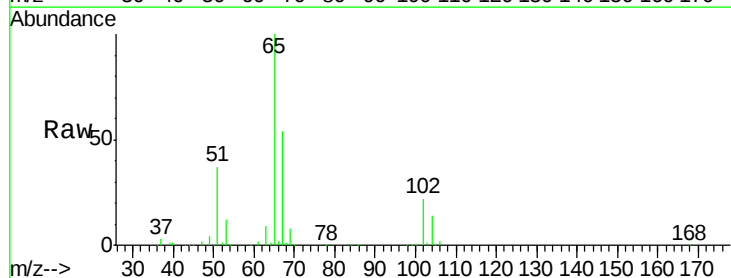
Acq: 11 Feb 2019 19:27

Tgt Ion: 65 Resp: 384040

Ion Ratio Lower Upper

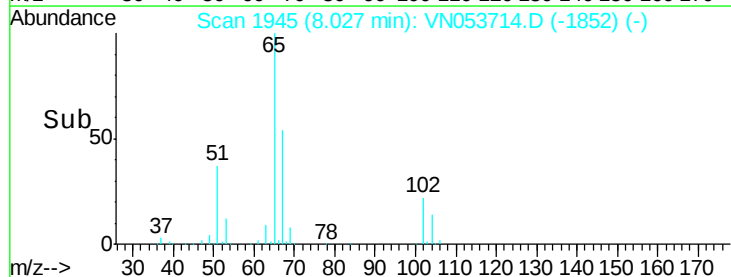
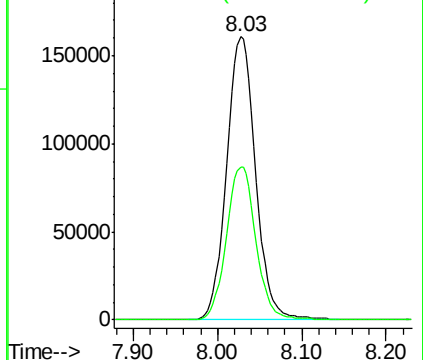
65 100

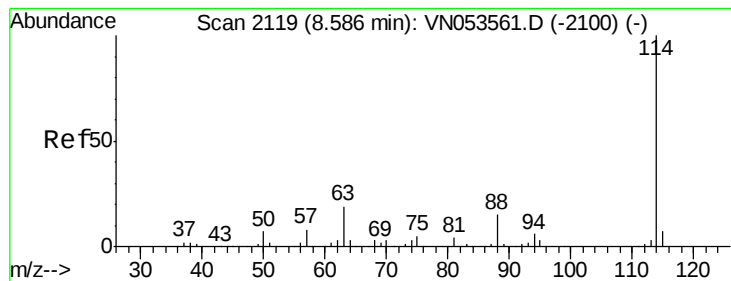
67 55.2 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053714.D

Acq: 11 Feb 2019 19:27

Instrument :

MSVOA_N

ClientSampleId :

PB116968TB

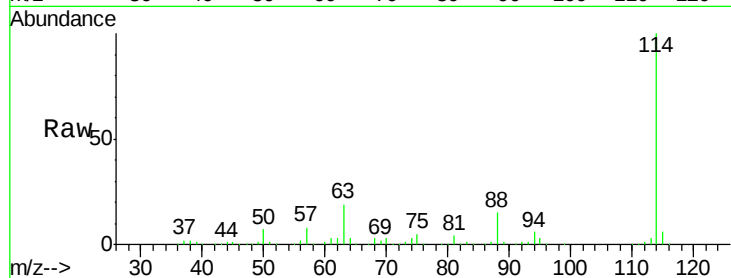
Tot Ion:114 Resp: 1188873

Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.6

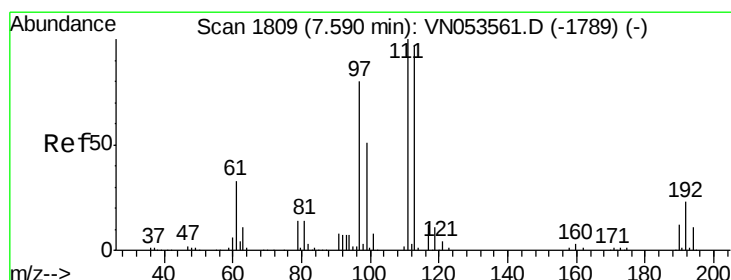
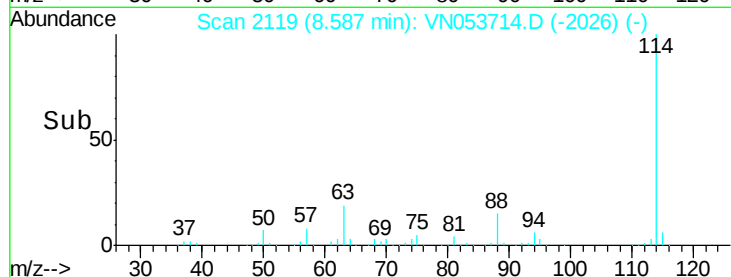
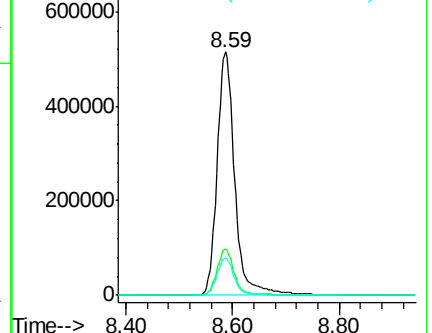
88 15.2 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.736 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053714.D

Acq: 11 Feb 2019 19:27

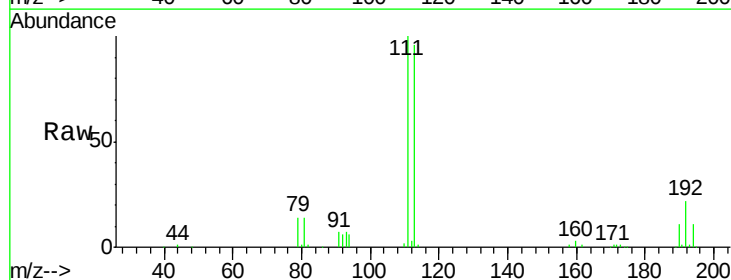
Tgt Ion:113 Resp: 373627

Ion Ratio Lower Upper

113 100

111 102.3 81.1 121.7

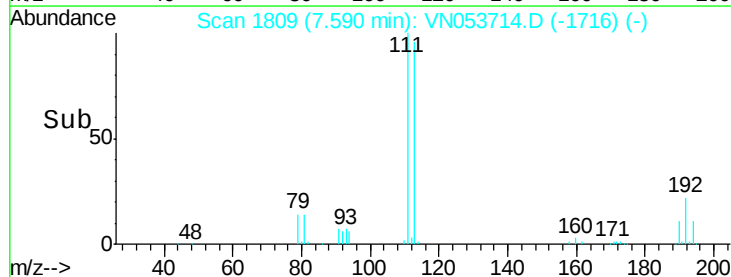
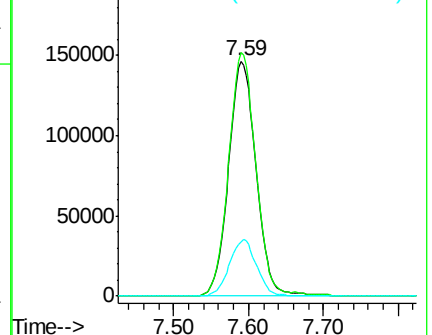
192 23.6 18.2 27.2

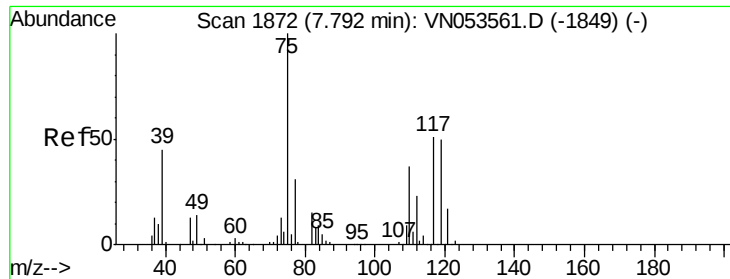


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.948 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053714.D

Acq: 11 Feb 2019 19:27

Instrument :

MSVOA_N

ClientSampleId :

PB116968TB

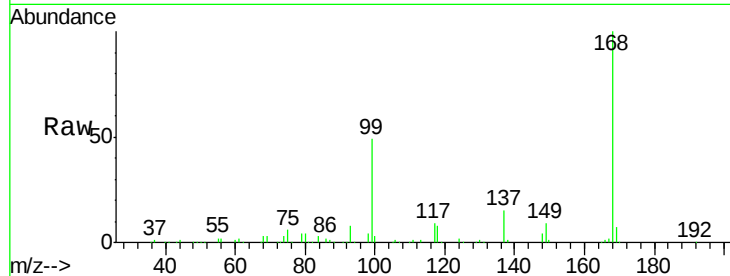
Tot Ion: 75 Resp: 42312

Ion Ratio Lower Upper

75 100

110 7.8 18.1 54.3#

77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

7.67

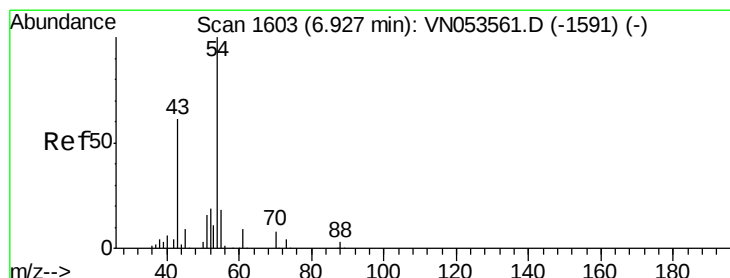
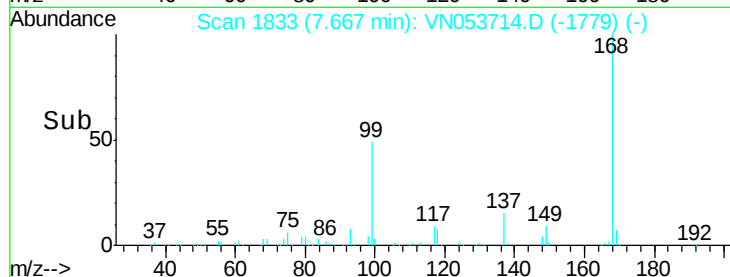
15000

10000

5000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#37

Ethyl Acetate

Concen: 0.609 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. -0.08 min

Lab File: VN053714.D

Acq: 11 Feb 2019 19:27

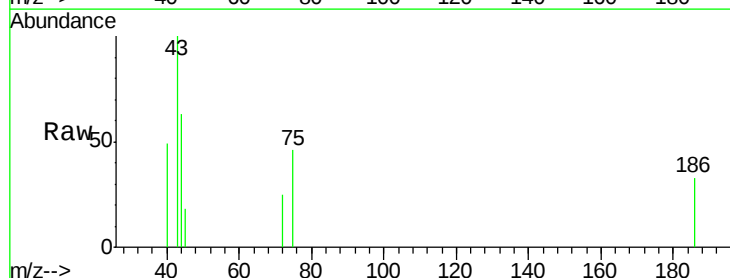
Tgt Ion: 43 Resp: 3645

Ion Ratio Lower Upper

43 100

61 1.8 11.8 17.6#

70 0.0 8.6 12.8#



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

6.84

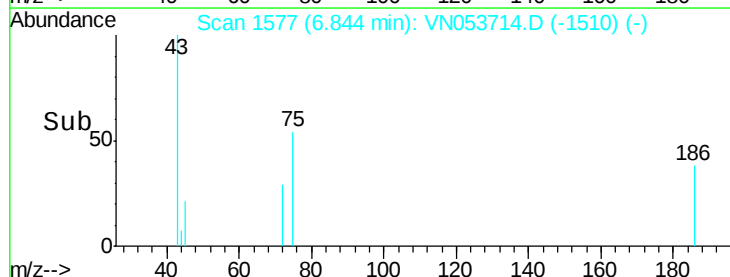
1500

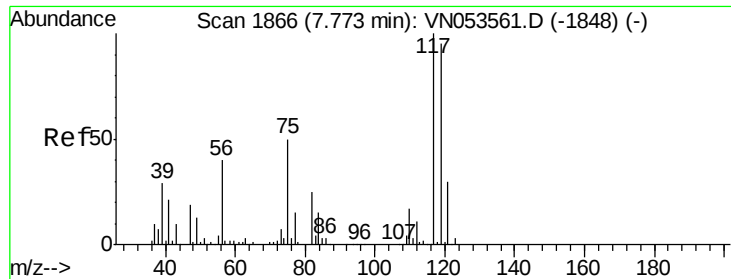
1000

500

0

Time--> 6.75 6.80 6.85 6.90

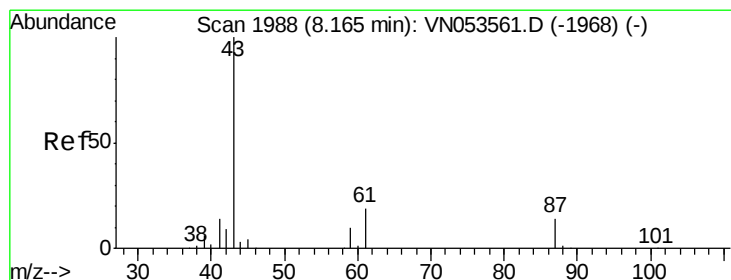
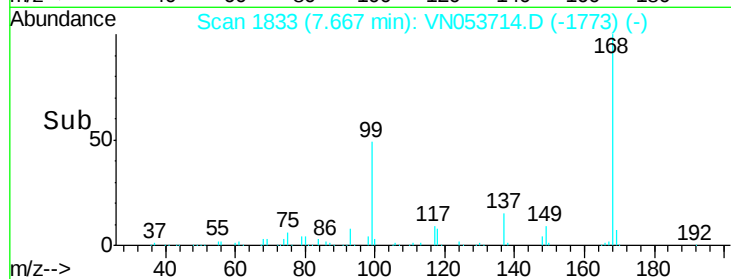
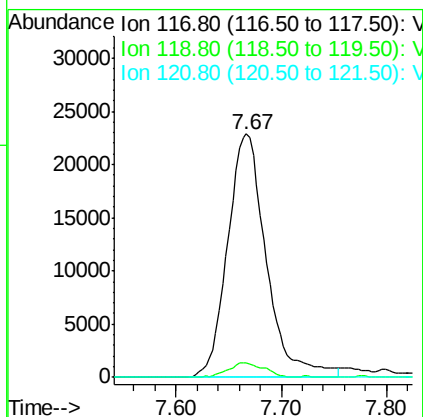
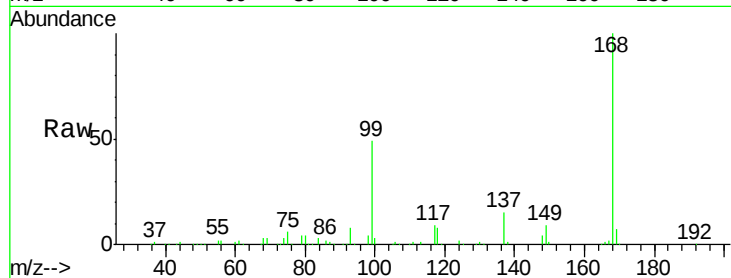




#38
Carbon Tetrachloride
Concen: 5.395 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053714.D
Acq: 11 Feb 2019 19:27

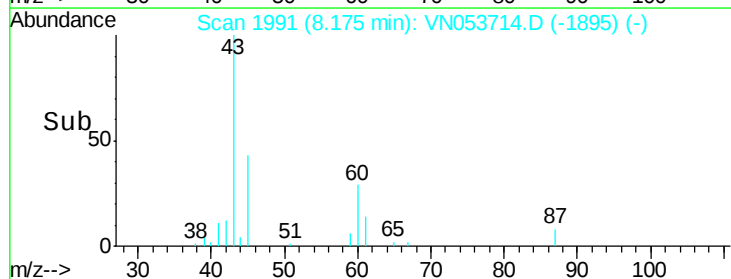
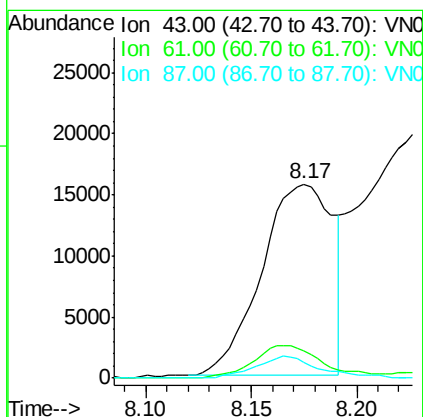
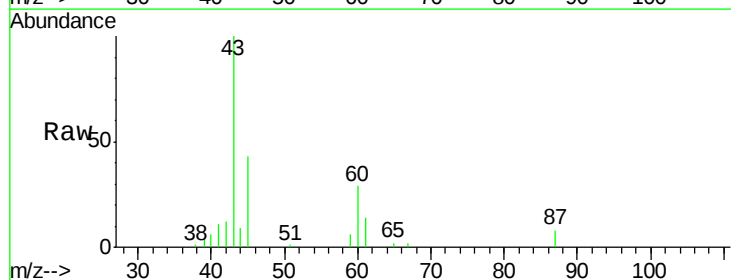
Instrument :
MSVOA_N
ClientSampleId :
PB116968TB

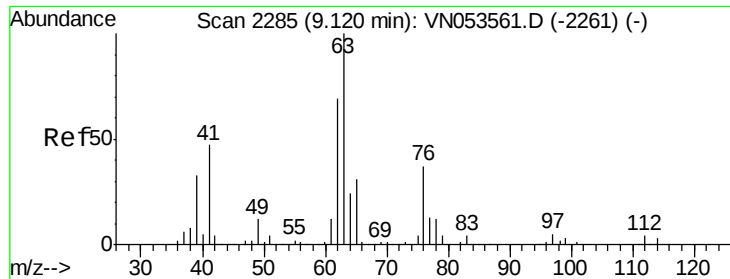
Tot Ion:117 Resp: 58249
Ion Ratio Lower Upper
117 100
119 5.8 77.2 115.8#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 3.188 ug/l
RT: 8.17 min Scan# 1991
Delta R.T. 0.01 min
Lab File: VN053714.D
Acq: 11 Feb 2019 19:27

Tgt Ion: 43 Resp: 36852
Ion Ratio Lower Upper
43 100
61 16.5 23.9 35.9#
87 10.3 11.0 16.6#

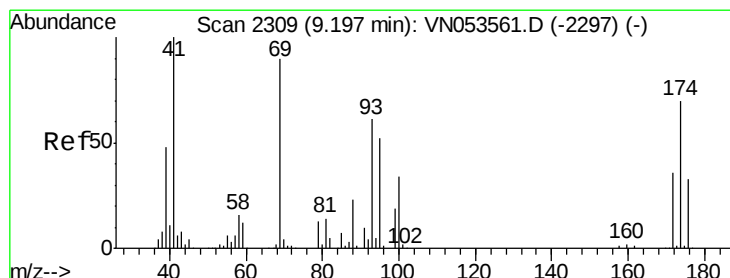
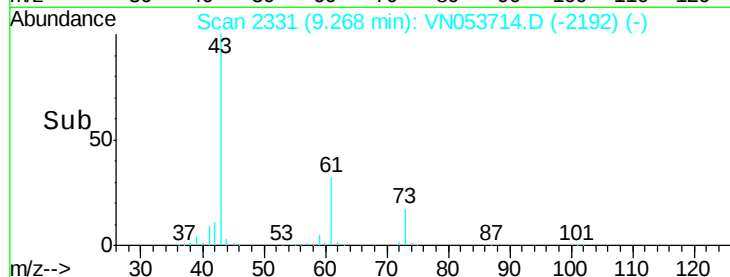
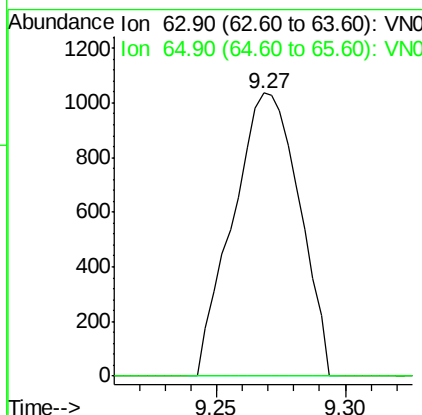
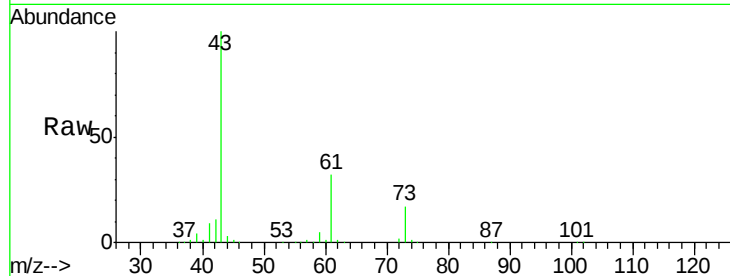




#45
 1,2-Dichloropropane
 Concen: 0.220 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN053714.D
 Acq: 11 Feb 2019 19:27

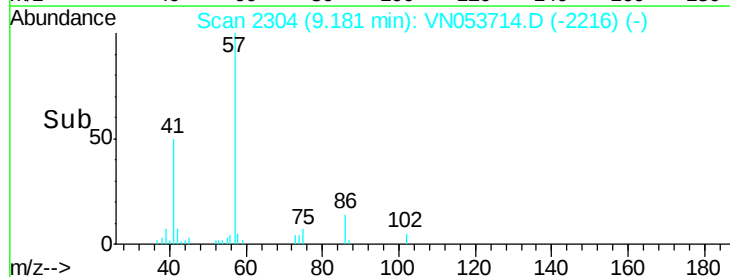
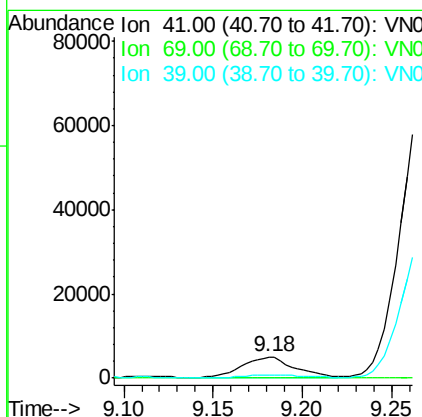
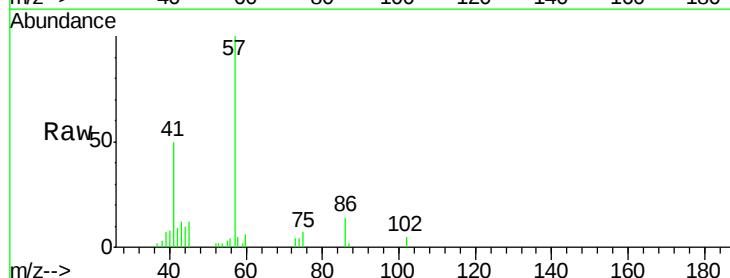
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116968TB

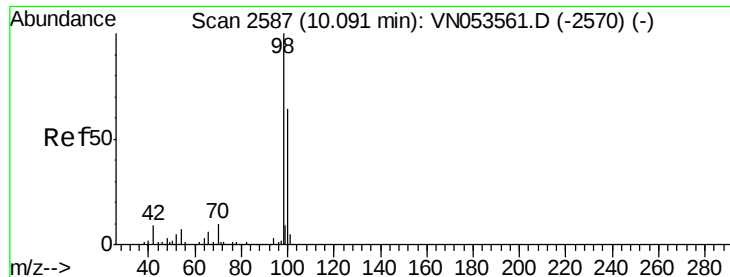
Tot Ion: 63 Resp: 1860
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.900 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN053714.D
 Acq: 11 Feb 2019 19:27

Tgt Ion: 41 Resp: 10482
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 0.0 40.0 60.0#





#50

Toluene-d8

Concen: 50.976 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053714.D

Acq: 11 Feb 2019 19:27

Instrument :

MSVOA_N

ClientSampleId :

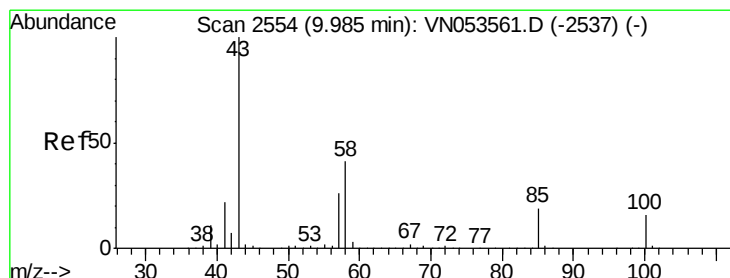
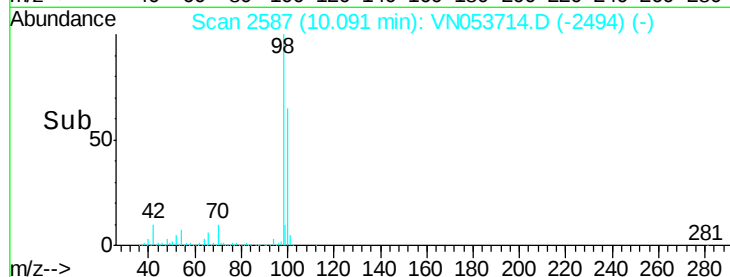
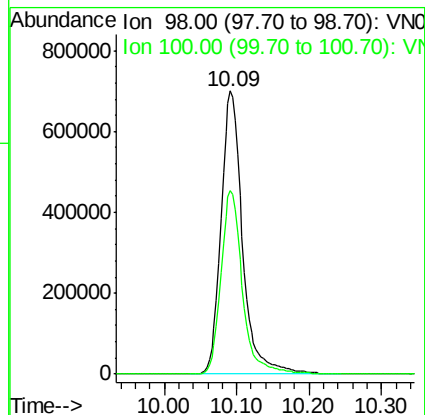
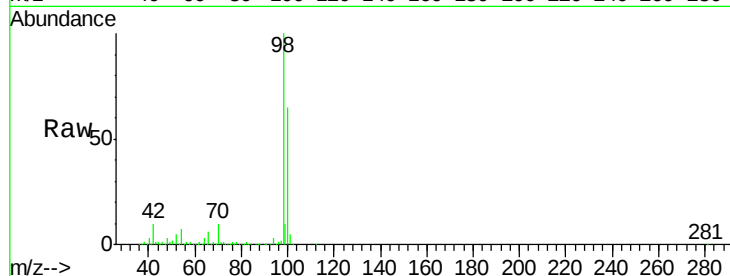
PB116968TB

Tot Ion: 98 Resp: 1437864

Ion Ratio Lower Upper

98 100

100 64.7 51.4 77.0



#51

4-Methyl-2-Pentanone

Concen: 1.531 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN053714.D

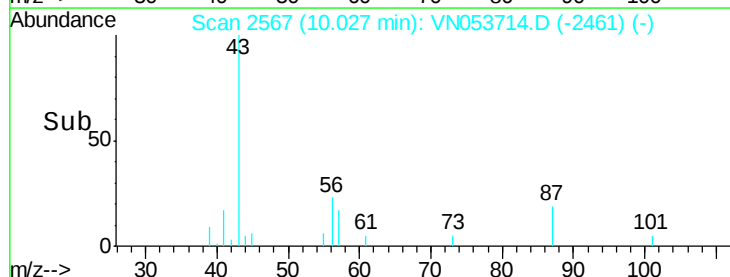
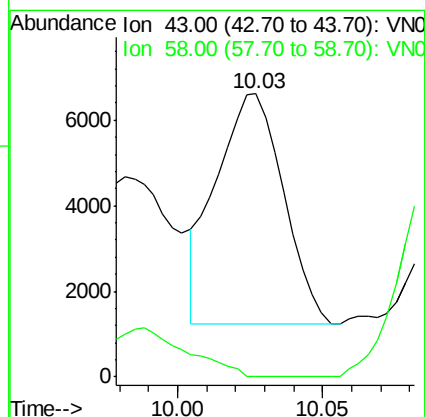
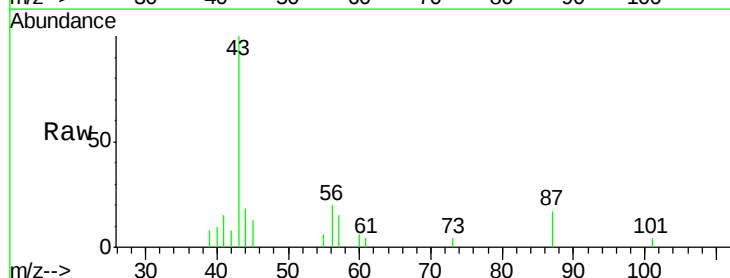
Acq: 11 Feb 2019 19:27

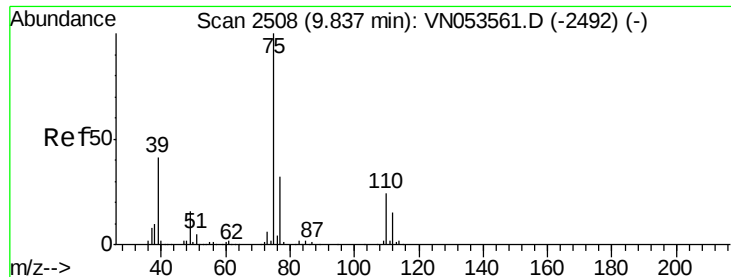
Tgt Ion: 43 Resp: 8698

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#

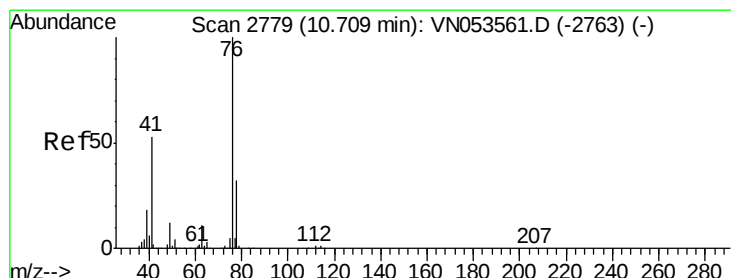
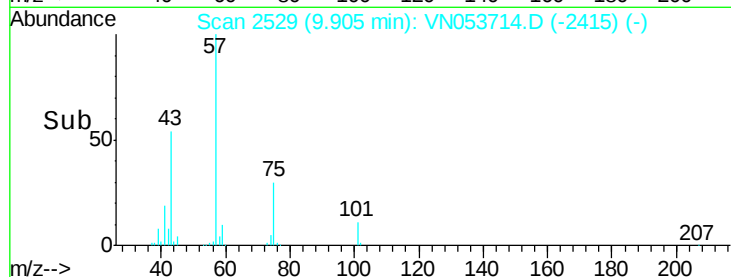
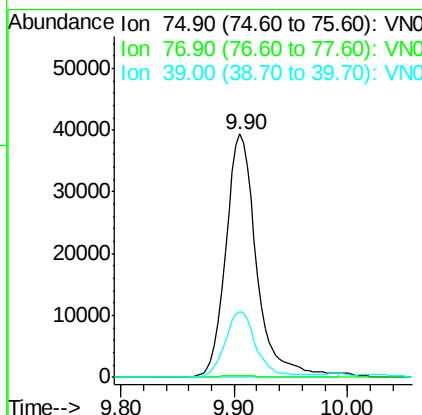
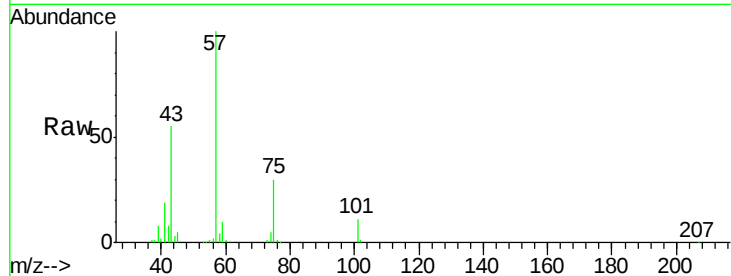




#54
 cis-1,3-Dichloropropene
 Concen: 5.939 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053714.D
 Acq: 11 Feb 2019 19:27

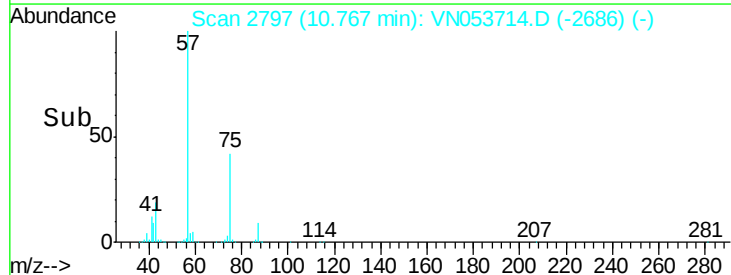
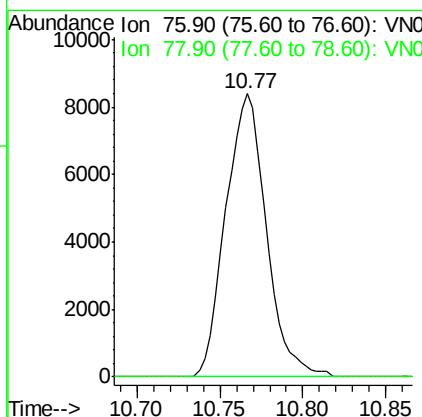
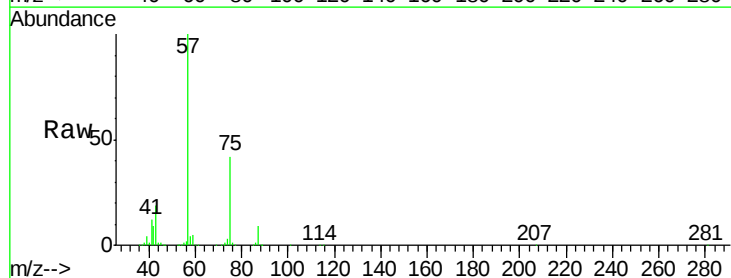
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116968TB

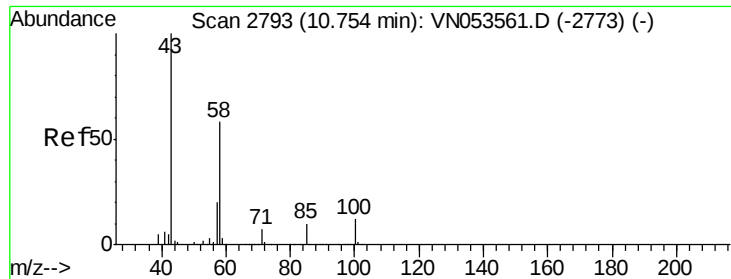
Tot Ion: 75 Resp: 74659
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.8 38.6#
 39 27.2 33.4 50.0#



#57
 1,3-Dichloropropane
 Concen: 1.183 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN053714.D
 Acq: 11 Feb 2019 19:27

Tgt Ion: 76 Resp: 14287
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

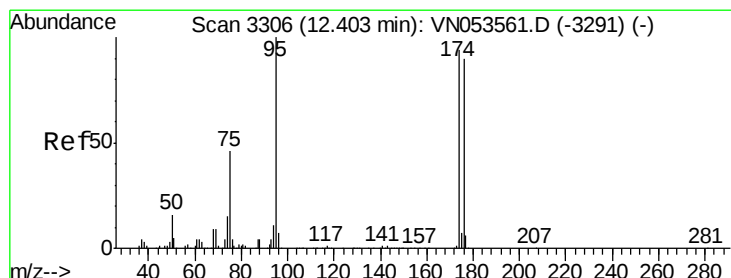
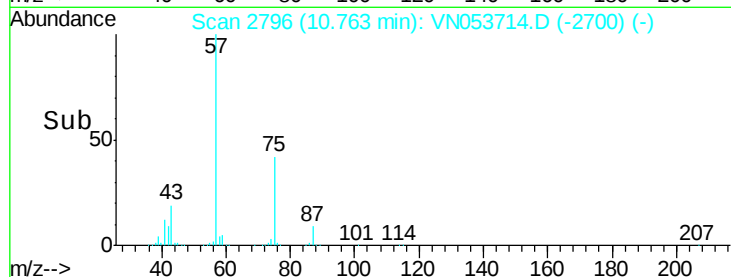
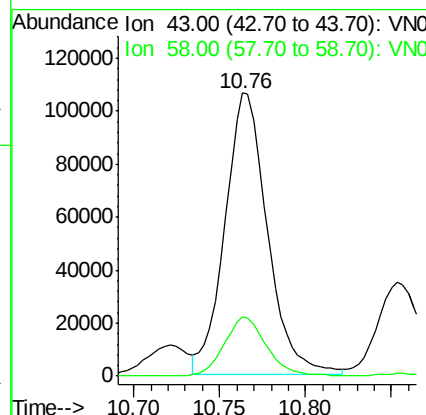
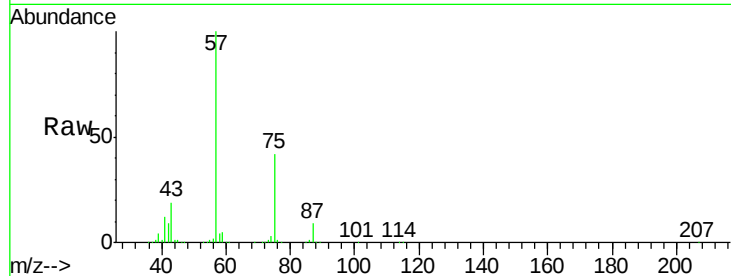




#59
2-Hexanone
Concen: 47.878 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053714.D
Acq: 11 Feb 2019 19:27

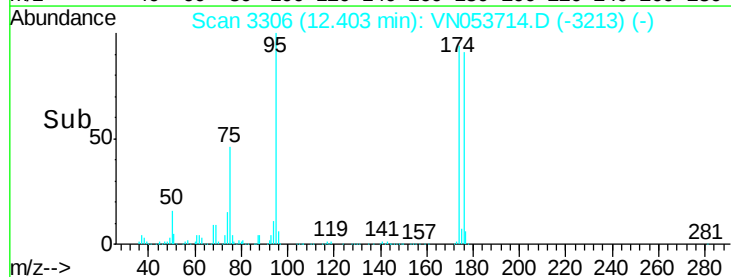
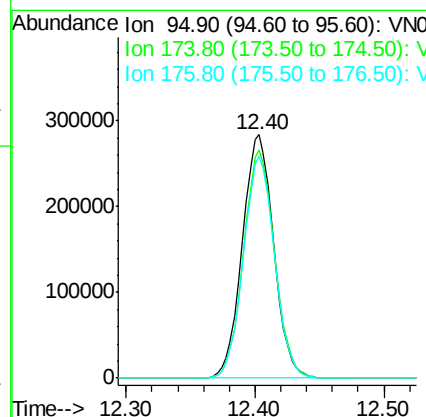
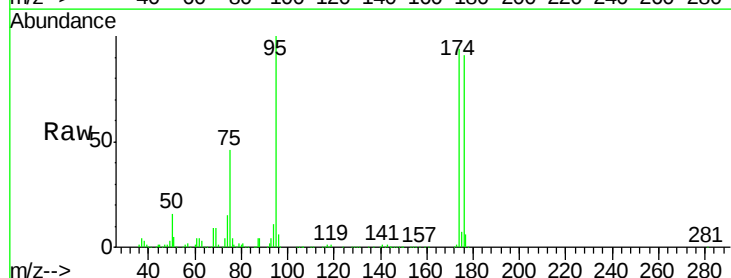
Instrument :
MSVOA_N
ClientSampled :
PB116968TB

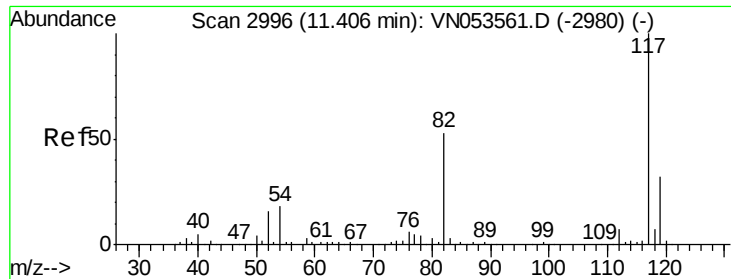
Tot Ion: 43 Resp: 184626
Ion Ratio Lower Upper
43 100
58 20.9 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: 50.905 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053714.D
Acq: 11 Feb 2019 19:27

Tgt Ion: 95 Resp: 478882
Ion Ratio Lower Upper
95 100
174 93.1 0.0 183.2
176 90.4 0.0 177.4

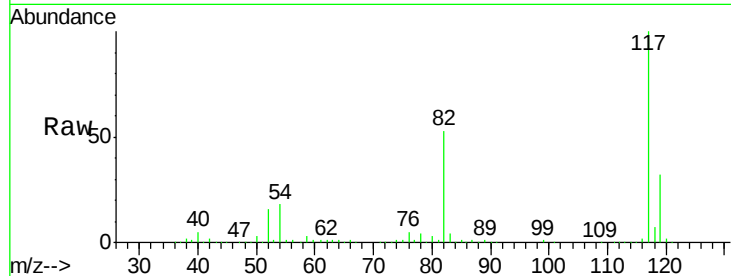




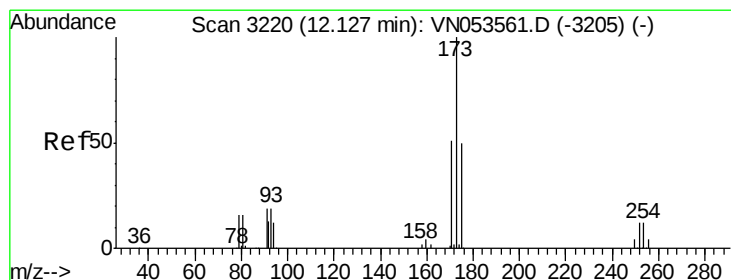
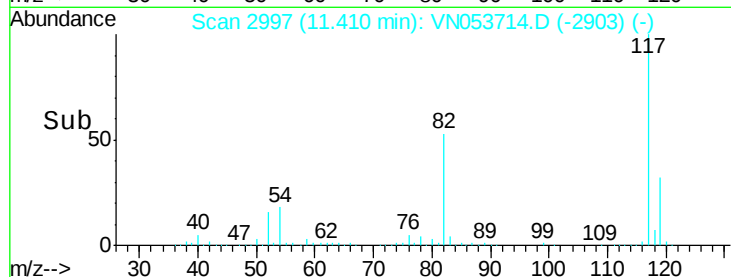
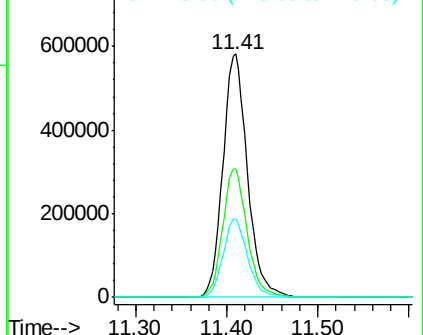
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053714.D
Acq: 11 Feb 2019 19:27

Instrument :
MSVOA_N
ClientSampled :
PB116968TB

Tot Ion:117 Resp: 1089062
Ion Ratio Lower Upper
117 100
82 52.6 42.9 64.3
119 32.5 26.0 39.0

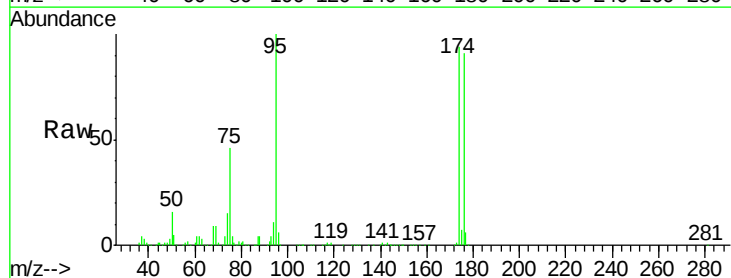


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

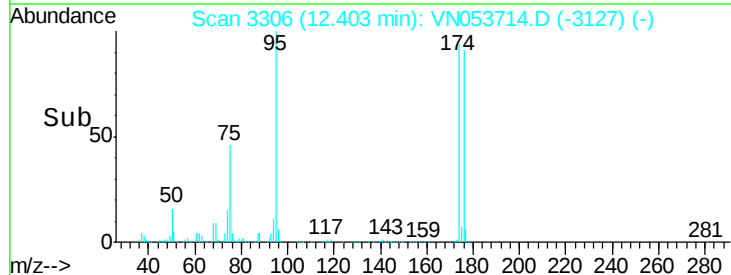
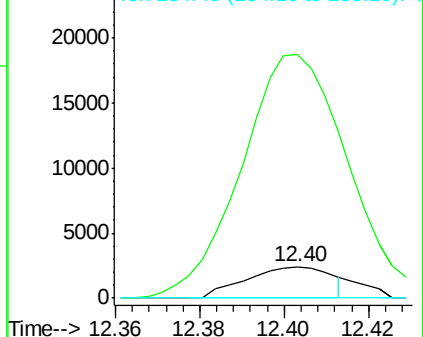


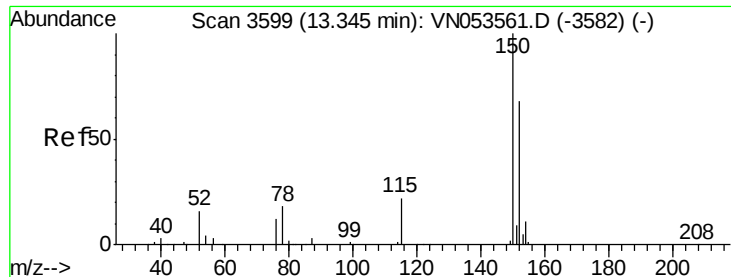
#71
Bromoform
Concen: 0.611 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053714.D
Acq: 11 Feb 2019 19:27

Tgt Ion:173 Resp: 3384
Ion Ratio Lower Upper
173 100
175 816.4 24.6 74.0#
254 0.0 0.2 0.2#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053714.D

Acq: 11 Feb 2019 19:27

Instrument :

MSVOA_N

ClientSampleId :

PB116968TB

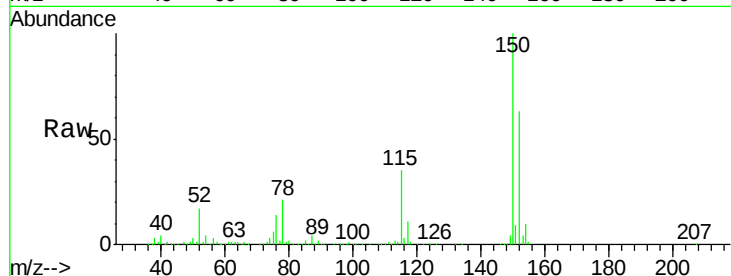
Tot Ion:152 Resp: 445504

Ion Ratio Lower Upper

152 100

115 55.2 27.8 83.4

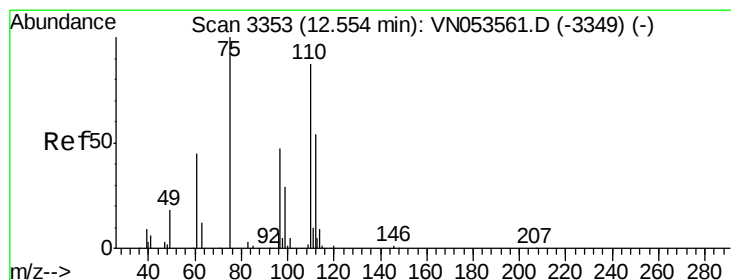
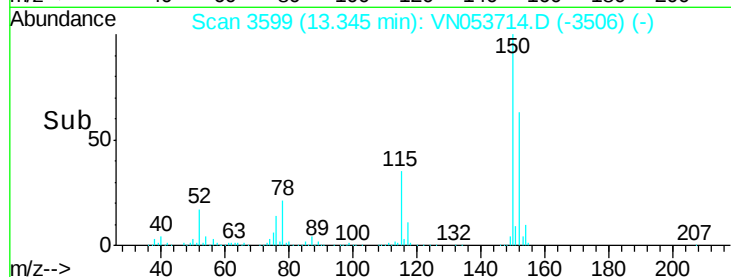
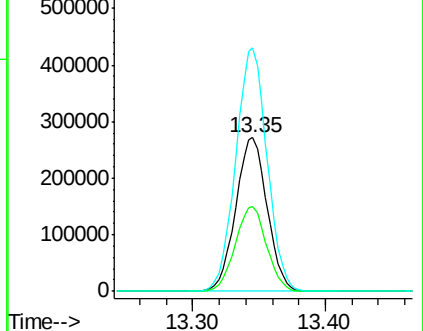
150 158.2 0.0 349.0



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: 38.862 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053714.D

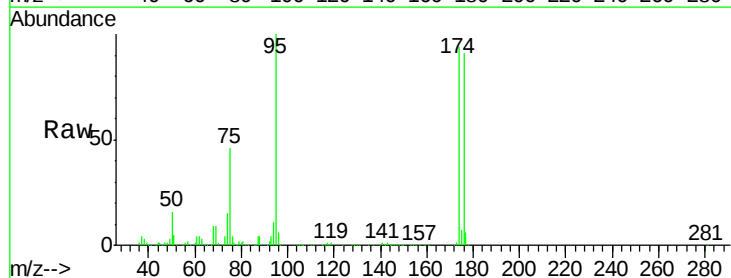
Acq: 11 Feb 2019 19:27

Tgt Ion: 75 Resp: 222378

Ion Ratio Lower Upper

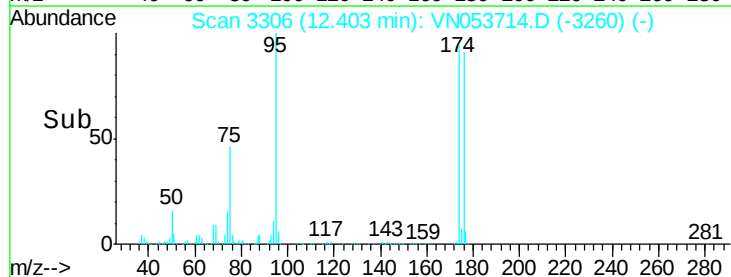
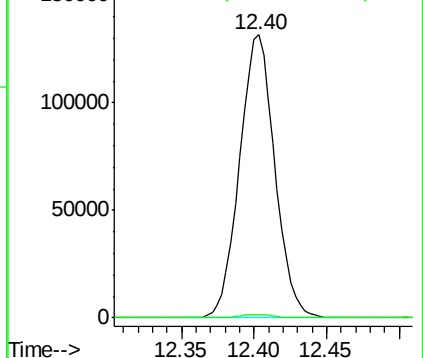
75 100

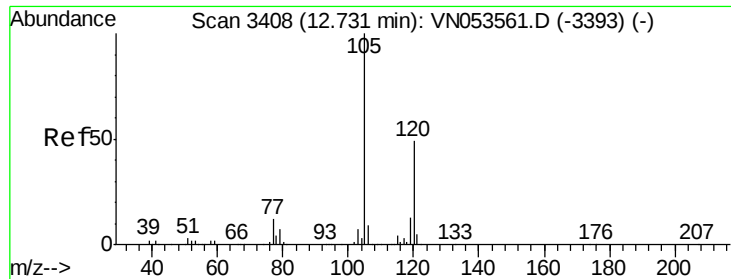
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.775 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053714.D

Acq: 11 Feb 2019 19:27

Instrument :

MSVOA_N

ClientSampled :

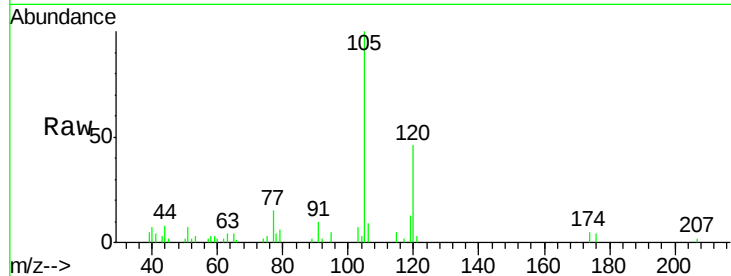
PB116968TB

Tot Ion:105 Resp: 20139

Ion Ratio Lower Upper

105 100

120 47.3 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

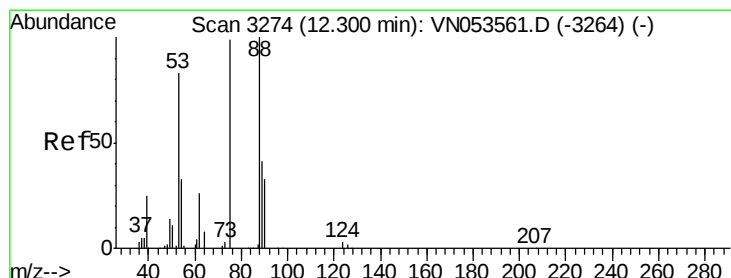
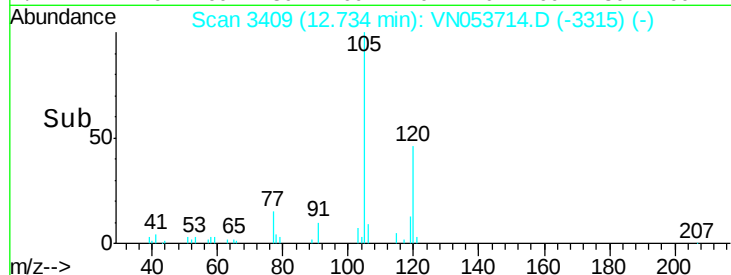
12.73

10000

5000

0

Time--> 12.65 12.70 12.75



#81

trans-1,4-Dichloro-2-butene

Concen: 109.277 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053714.D

Acq: 11 Feb 2019 19:27

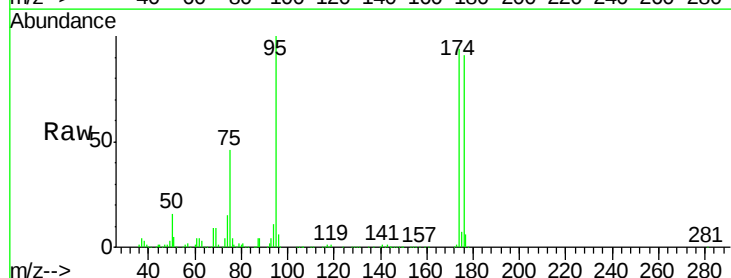
Tgt Ion: 75 Resp: 222378

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

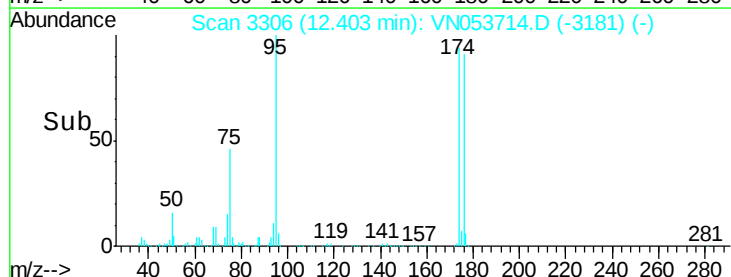
150000

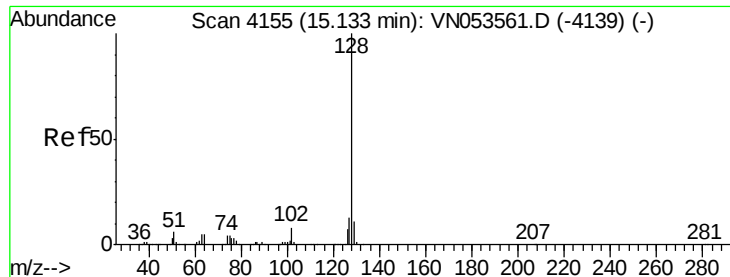
100000

50000

0

Time--> 12.35 12.40 12.45





#95

Naphthalene

Concen: 1.950 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053714.D

Acq: 11 Feb 2019 19:27

Instrument :

MSVOA_N

ClientSampled :

PB116968TB

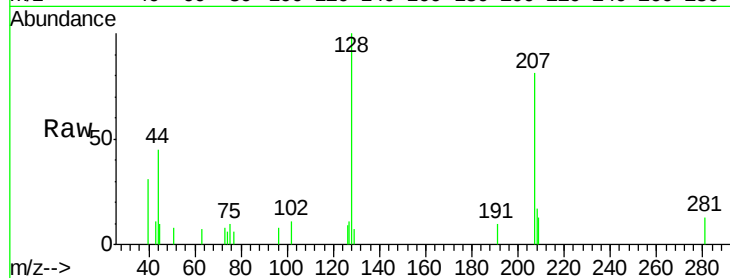
Tot Ion:128 Resp: 4336

Ion Ratio Lower Upper

128 100

127 10.4 10.3 15.5

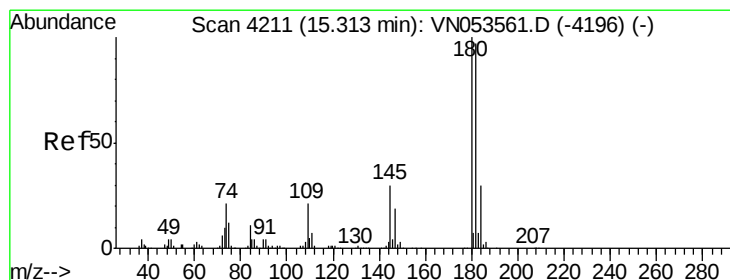
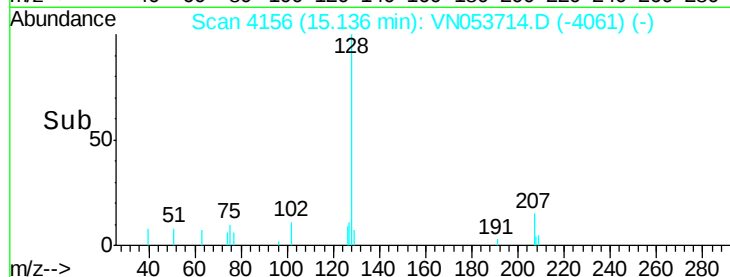
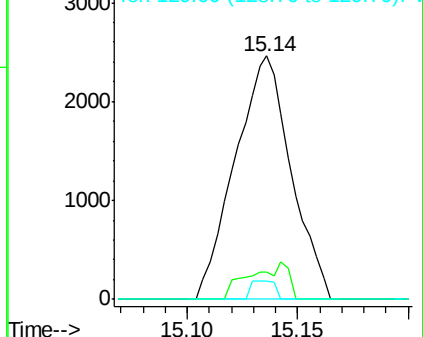
129 3.2 8.6 13.0#



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: 0.261 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN053714.D

Acq: 11 Feb 2019 19:27

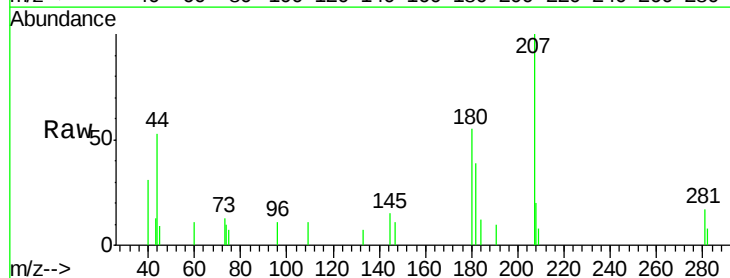
Tgt Ion:180 Resp: 2015

Ion Ratio Lower Upper

180 100

182 90.0 47.9 143.8

145 20.8 14.7 44.1



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

