

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021419\
 Data File : VN053781.D
 Acq On : 14 Feb 2019 16:02
 Operator : JC/SP
 Sample : PB117097ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 15 01:04:38 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	757840	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1262841	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1189715	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	462770	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	401609	52.83	ug/l	0.00
Spiked Amount			Recovery	=	105.66%	
35) Dibromofluoromethane	7.59	113	398801	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
50) Toluene-d8	10.09	98	1534305	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	
62) 4-Bromofluorobenzene	12.40	95	508393	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	

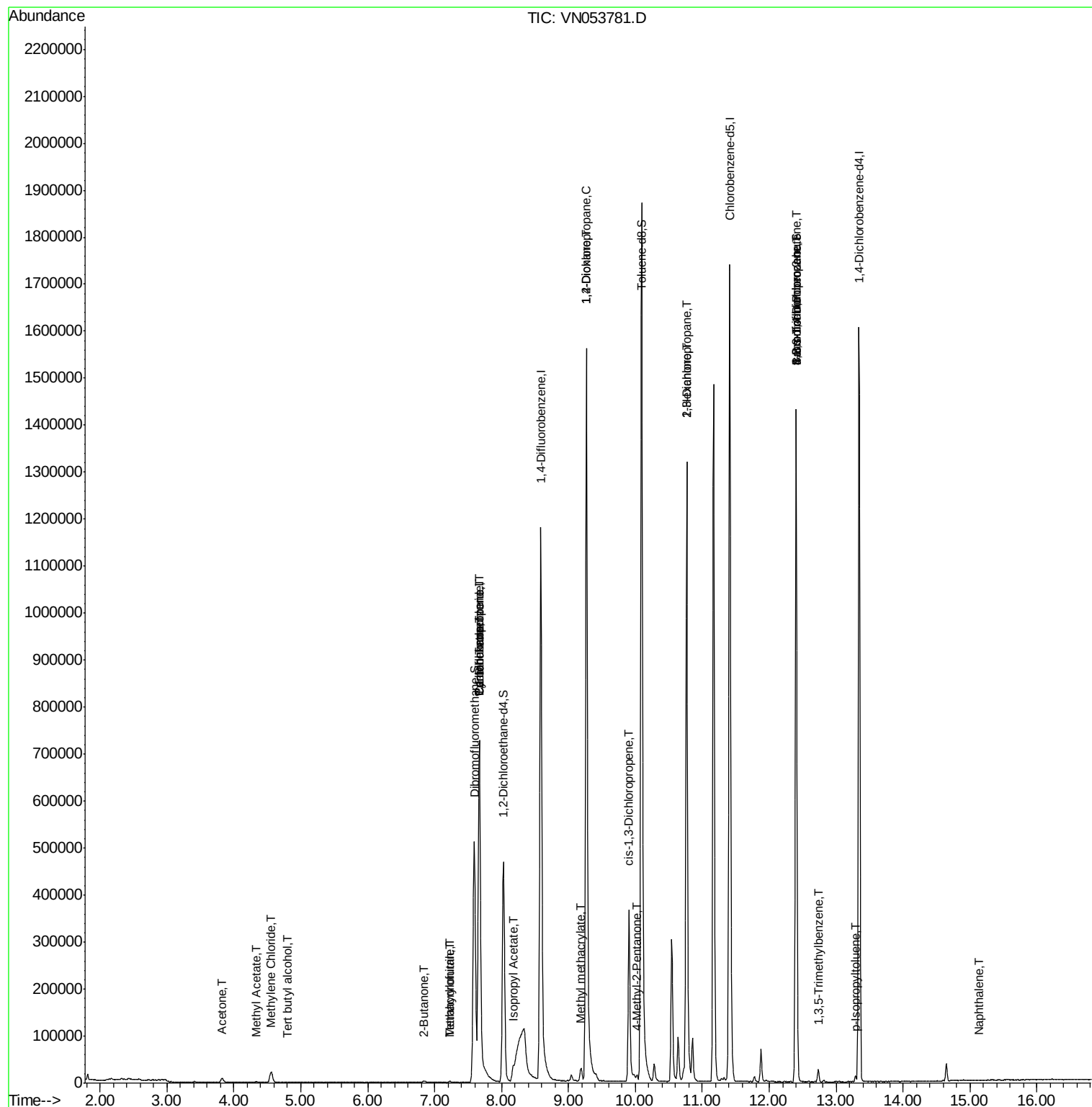
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.79	59	178	0.396	ug/l #	72
16) Acetone	3.82	43	14536	7.454	ug/l	100
18) Methyl Acetate	4.34	43	3177	0.550	ug/l #	76
20) Methylene Chloride	4.55	84	17501	2.139	ug/l	98
25) 2-Butanone	6.84	43	4802	1.727	ug/l	93
29) Tetrahydrofuran	7.23	42	885	0.496	ug/l	90
31) Cyclohexane	7.67	56	10154	0.622	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45241	3.974	ug/l #	49
38) Carbon Tetrachloride	7.67	117	60194	5.249	ug/l #	16
41) Methacrylonitrile	7.22	41	1065	0.300	ug/l #	23
43) Isopropyl Acetate	8.18	43	33925	2.763	ug/l #	85
45) 1,2-Dichloropropane	9.26	63	2078	0.231	ug/l #	43
48) Methyl methacrylate	9.18	41	10017	1.709	ug/l #	12
49) 1,4-Dioxane	9.26	88	93	40.150	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	8982	1.489	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	77483	5.802	ug/l #	61
57) 1,3-Dichloropropane	10.77	76	15835	1.234	ug/l #	43
59) 2-Hexanone	10.77	43	197444	48.203	ug/l #	51
71) Bromoform	12.40	173	3417	0.565	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	232386	39.096	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	13228	0.490	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	232386	109.935	ug/l #	15
86) p-Isopropyltoluene	13.29	119	7457	0.263	ug/l	96
95) Naphthalene	15.13	128	1041	1.786	ug/l #	69

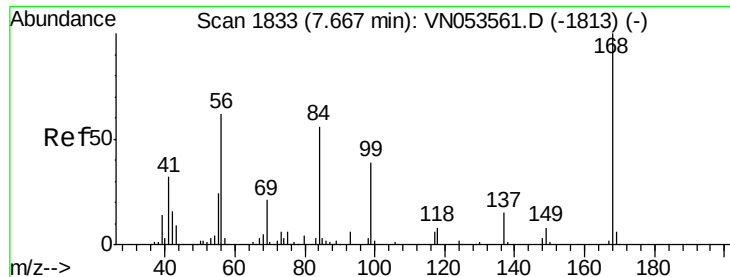
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1834

Delta R.T. 0.00 min

Lab File: VN053781.D

Acq: 14 Feb 2019 16:02

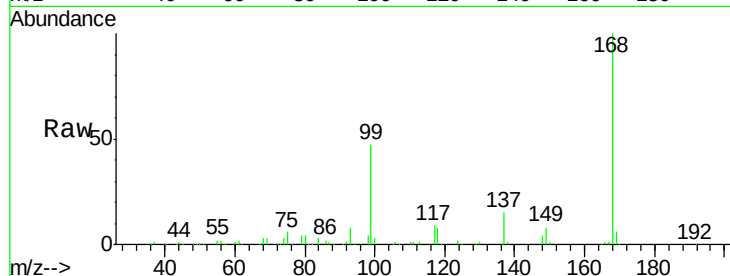
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 757840

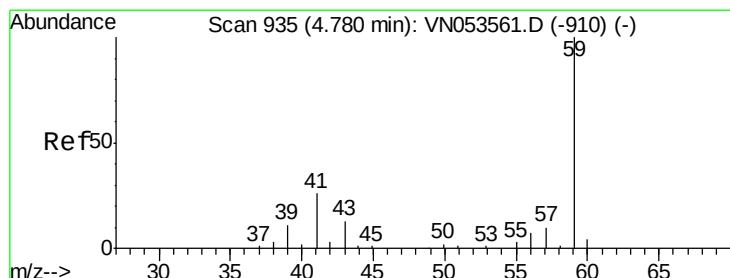
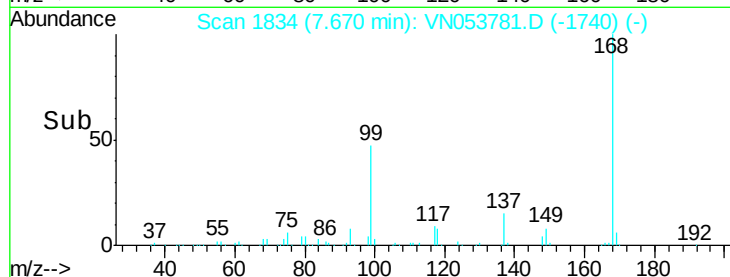
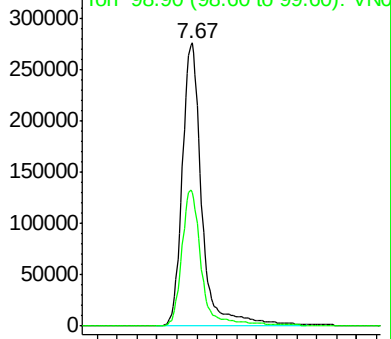
Ion Ratio Lower Upper

168 100

99 47.3 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053781.D (-1740) (-)



#11

Tert butyl alcohol

Concen: 0.396 ug/l

RT: 4.79 min Scan# 938

Delta R.T. 0.01 min

Lab File: VN053781.D

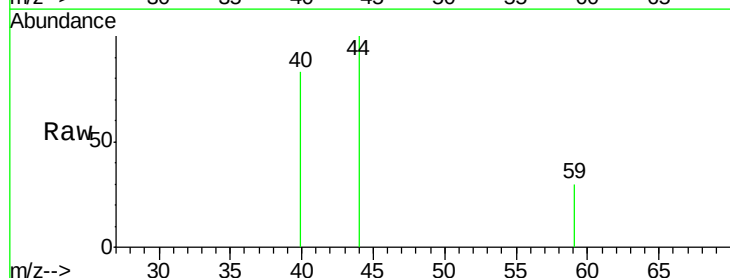
Acq: 14 Feb 2019 16:02

Tgt Ion: 59 Resp: 178

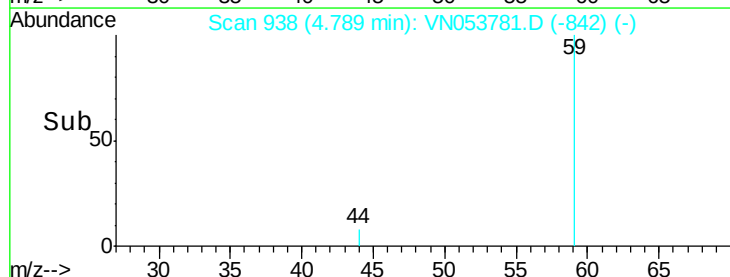
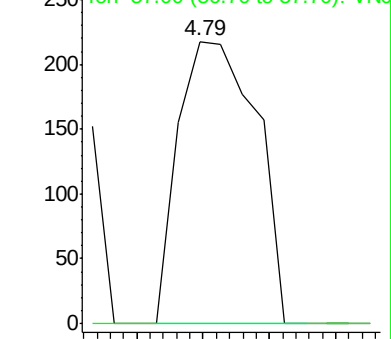
Ion Ratio Lower Upper

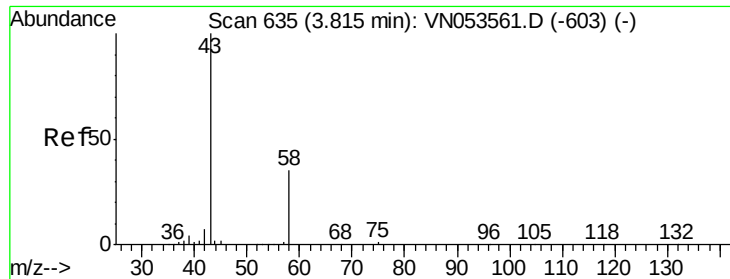
59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN053781.D (-842) (-)





#16

Acetone

Concen: 7.454 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053781.D

Acq: 14 Feb 2019 16:02

Instrument :

MSVOA_N

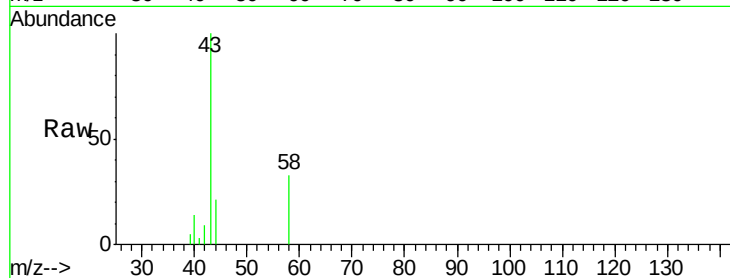
ClientSampleId :

Tot Ion: 43 Resp: 14536

Ion Ratio Lower Upper

43 100

58 34.1 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

5000

4000

3000

2000

1000

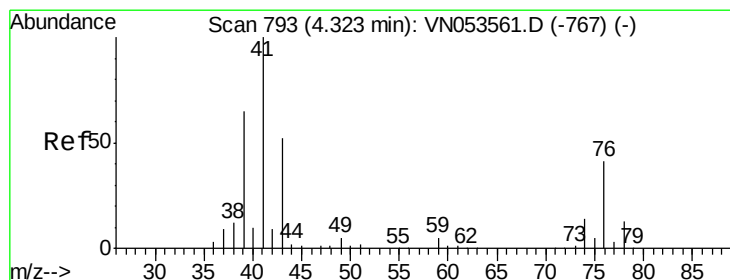
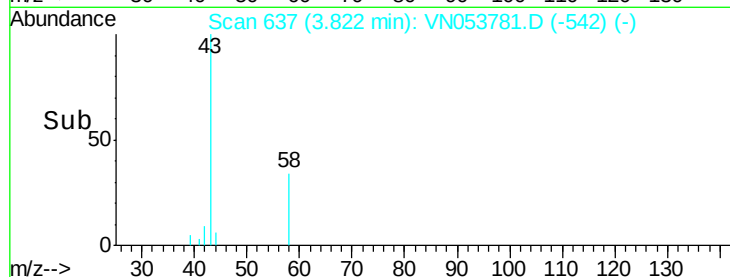
0

Time-->

3.70

3.80

3.90



#18

Methyl Acetate

Concen: 0.550 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.02 min

Lab File: VN053781.D

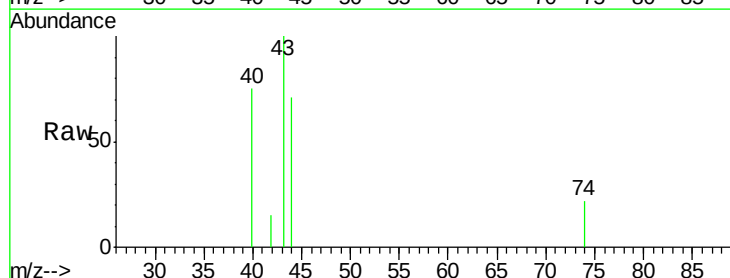
Acq: 14 Feb 2019 16:02

Tgt Ion: 43 Resp: 3177

Ion Ratio Lower Upper

43 100

74 12.6 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.34

1000

500

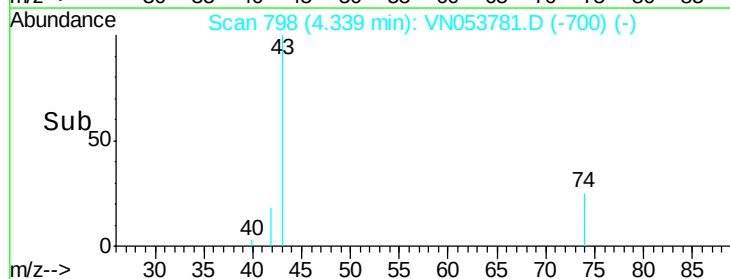
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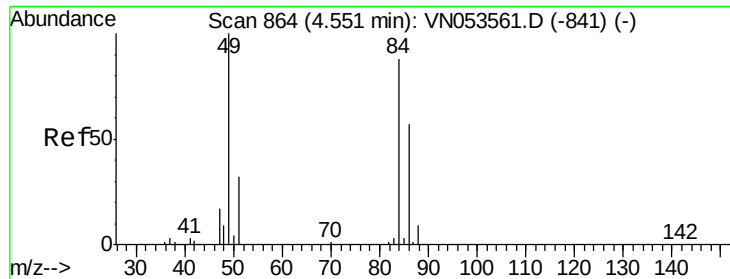
Time-->

4.30

4.35

4.40

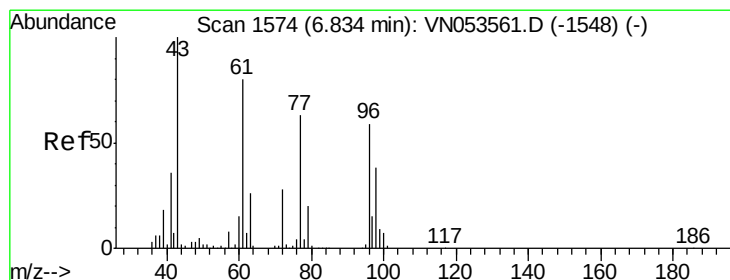
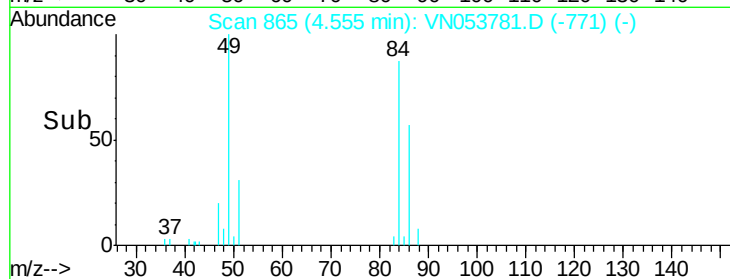
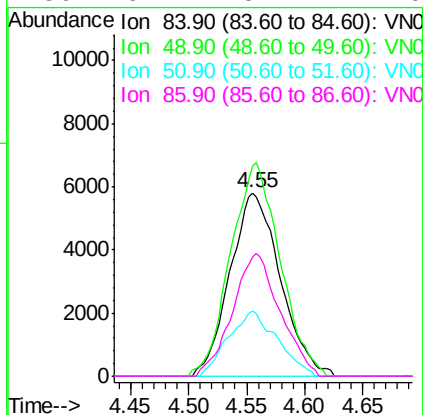
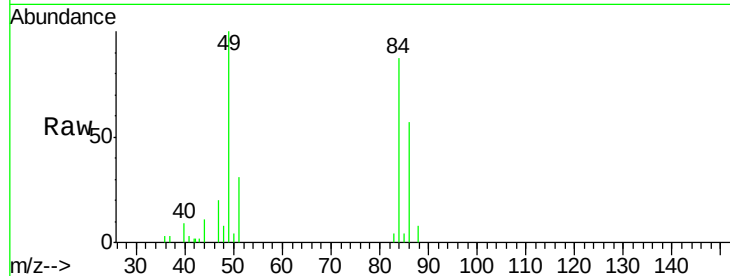




#20
Methvlene Chloride
Concen: 2.139 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053781.D
Acq: 14 Feb 2019 16:02

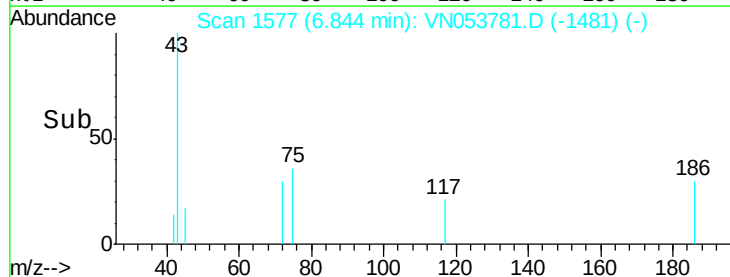
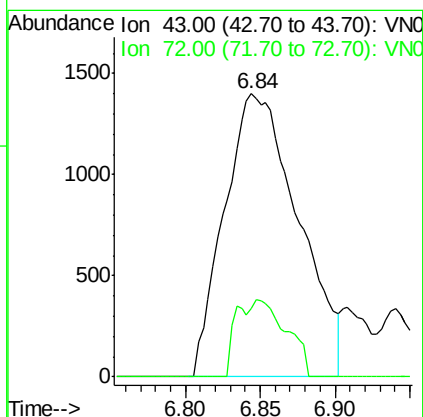
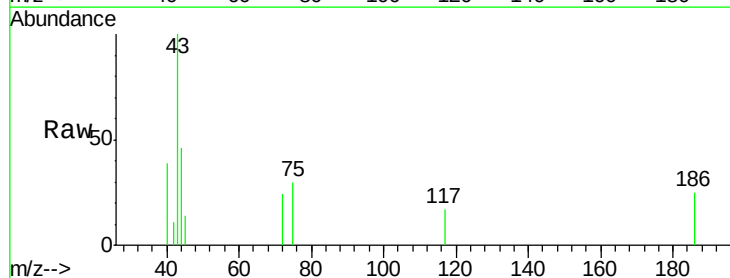
Instrument :
MSVOA_N
ClientSampled :

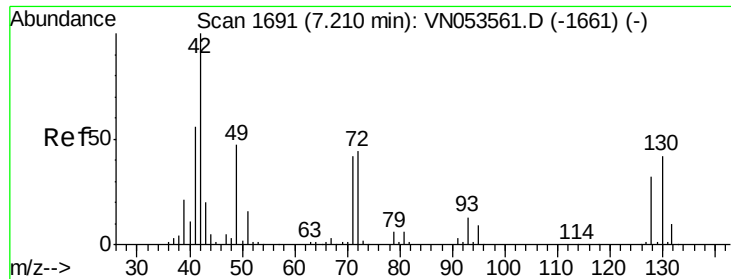
Tot Ion:	84	Resp:	17501
Ion	Ratio	Lower	Upper
84	100		
49	114.3	94.3	141.5
51	35.9	29.4	44.2
86	64.7	51.4	77.0



#25
2-Butanone
Concen: 1.727 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053781.D
Acq: 14 Feb 2019 16:02

Tgt Ion:	43	Resp:	4802
Ion	Ratio	Lower	Upper
43	100		
72	24.1	22.0	33.0

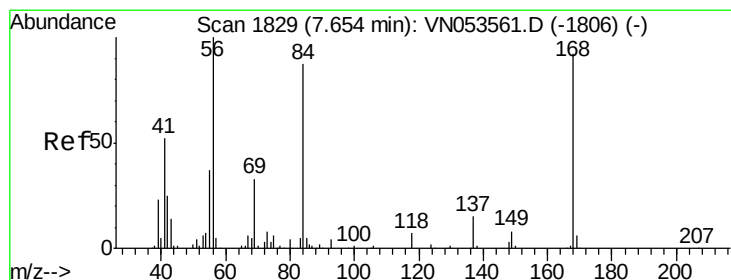
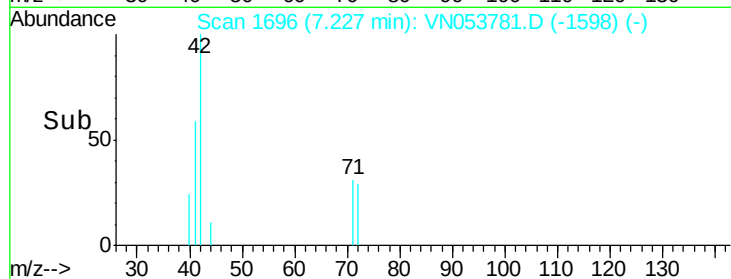
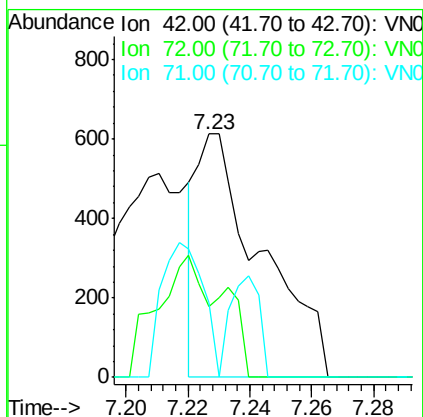
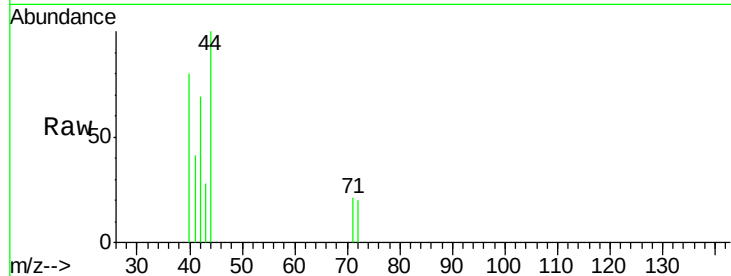




#29
Tetrahydrofuran
Concen: 0.496 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.02 min
Lab File: VN053781.D
Acq: 14 Feb 2019 16:02

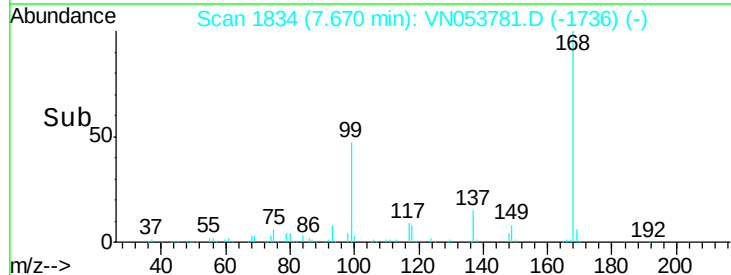
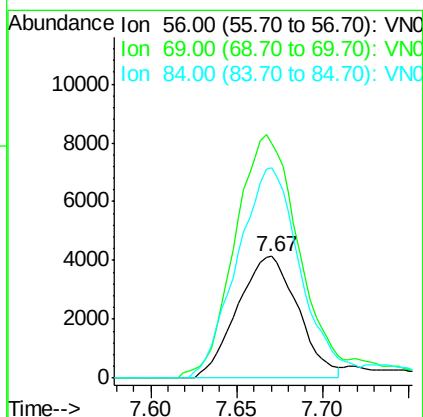
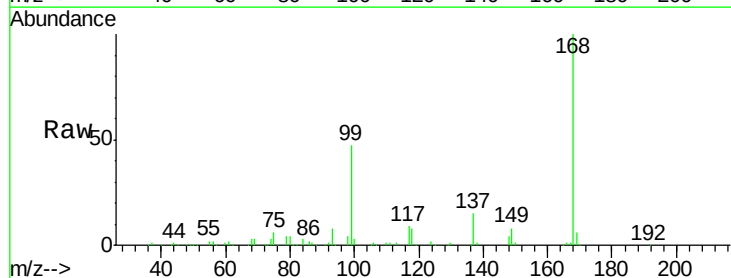
Instrument :
MSVOA_N
ClientSampleId :

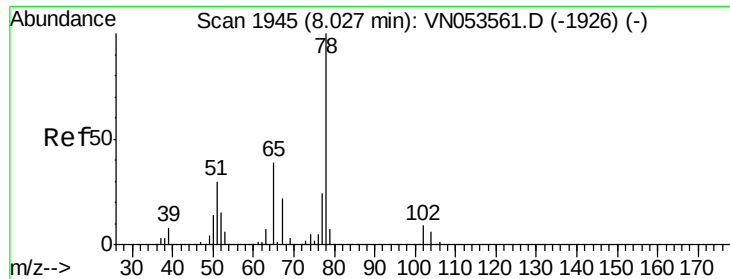
Tot Ion: 42 Resp: 885
Ion Ratio Lower Upper
42 100
72 37.1 35.2 52.8
71 35.5 33.0 49.4



#31
Cyclohexane
Concen: 0.622 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN053781.D
Acq: 14 Feb 2019 16:02

Tgt Ion: 56 Resp: 10154
Ion Ratio Lower Upper
56 100
69 187.0 26.4 39.6#
84 172.2 67.9 101.9#

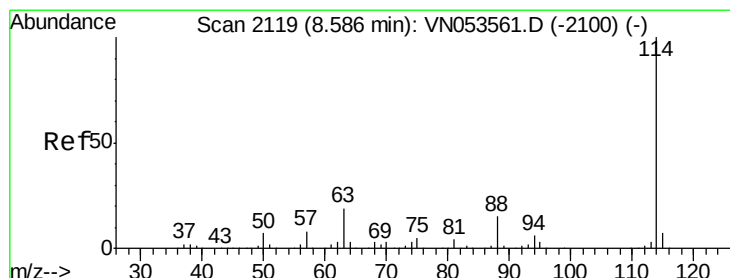
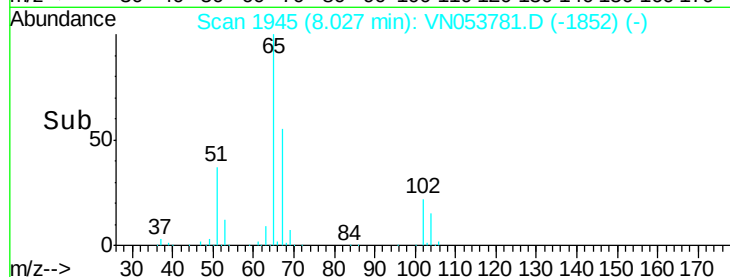
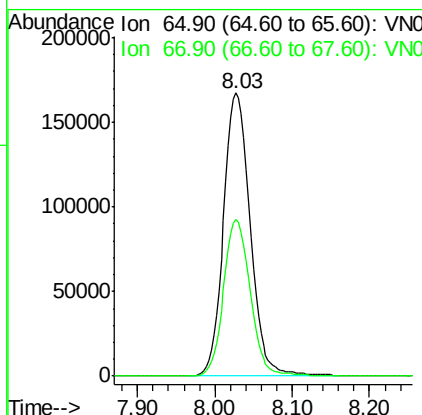
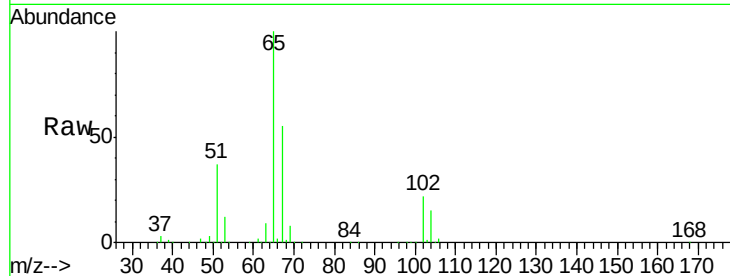




#33
 1,2-Dichloroethane-d4
 Concen: 52.825 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053781.D
 Acq: 14 Feb 2019 16:02

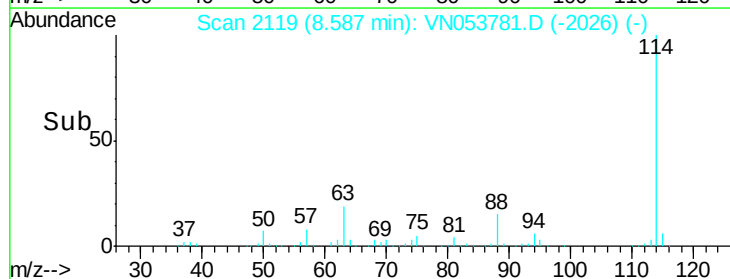
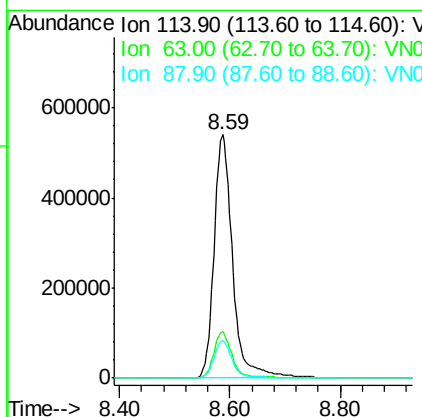
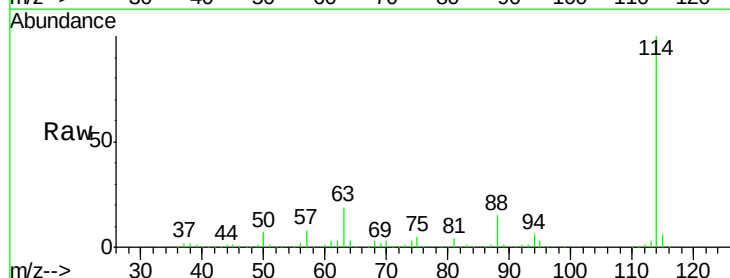
Instrument :
 MSVOA_N
 ClientSampleId :

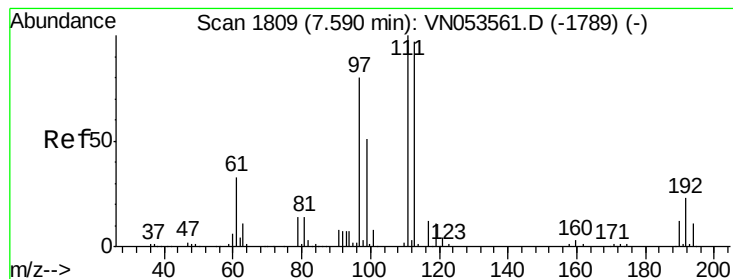
Tot Ion: 65 Resp: 401609
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053781.D
 Acq: 14 Feb 2019 16:02

Tgt Ion: 114 Resp: 1262841
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 38.6
 88 15.3 0.0 30.4





#35

Dibromofluoromethane

Concen: 49.978 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053781.D

Acq: 14 Feb 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

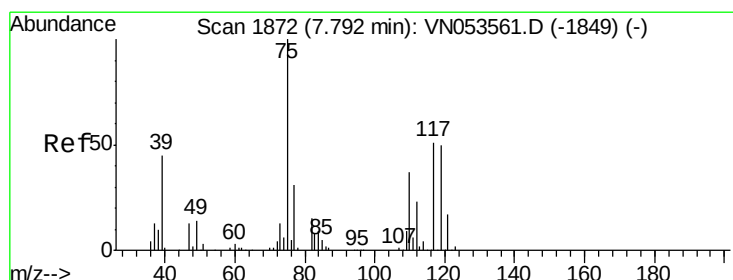
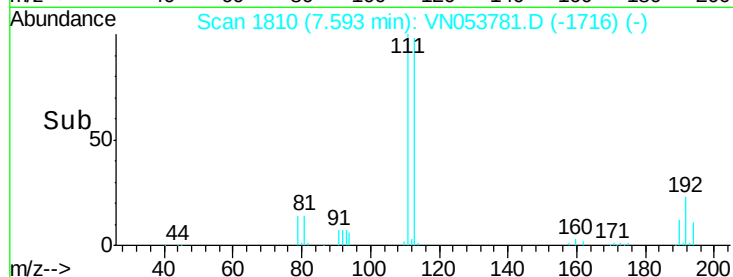
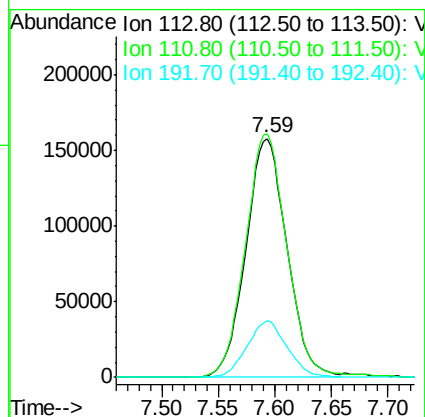
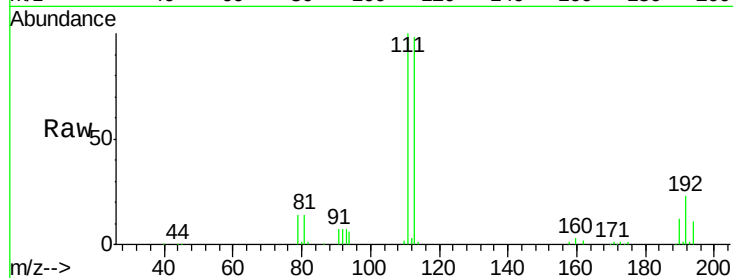
Tot Ion:113 Resp: 398801

Ion Ratio Lower Upper

113 100

111 103.7 81.1 121.7

192 23.3 18.2 27.2



#36

1,1-Dichloropropene

Concen: 3.974 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053781.D

Acq: 14 Feb 2019 16:02

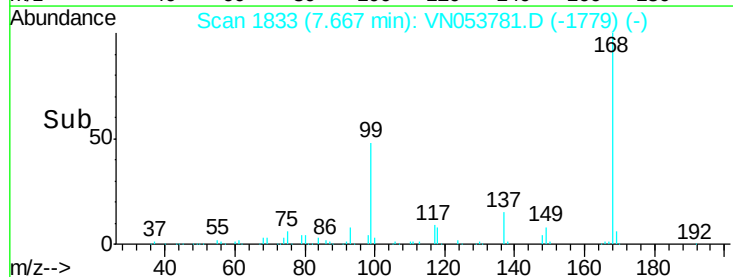
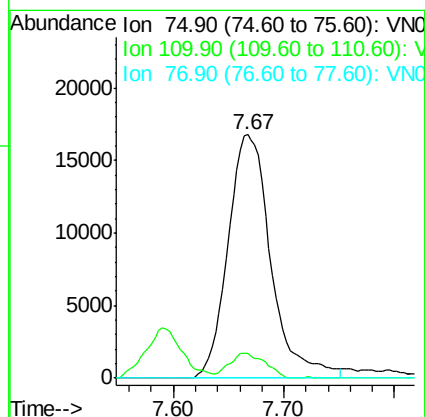
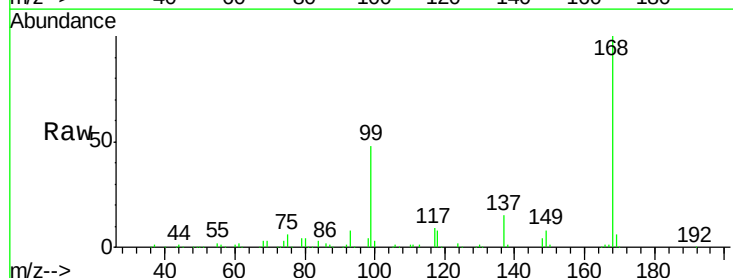
Tgt Ion: 75 Resp: 45241

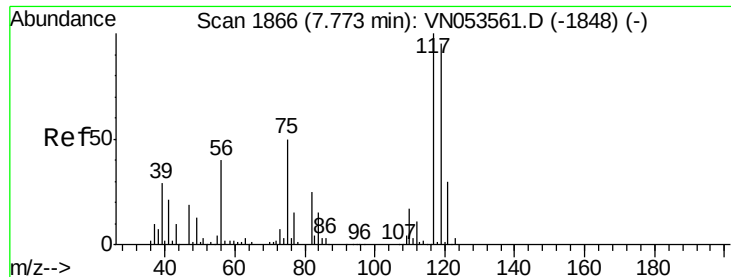
Ion Ratio Lower Upper

75 100

110 8.6 18.1 54.3#

77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 5.249 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN053781.D

Acq: 14 Feb 2019 16:02

Instrument :

MSVOA_N

ClientSampleId :

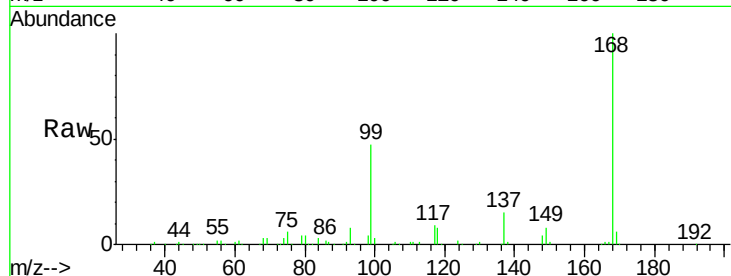
Tot Ion:117 Resp: 60194

Ion Ratio Lower Upper

117 100

119 5.0 77.2 115.8#

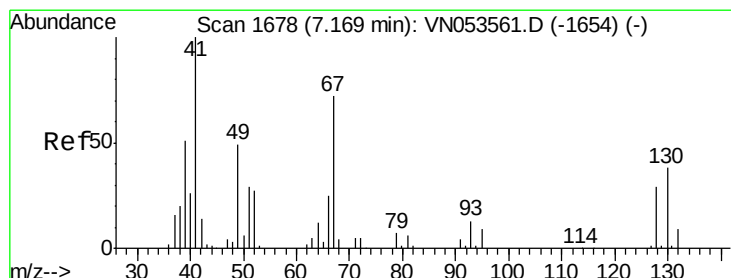
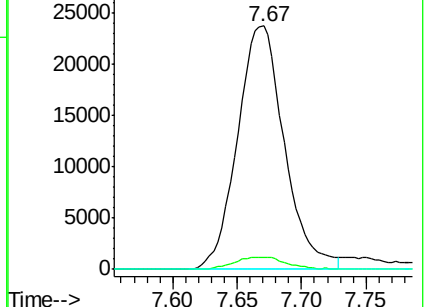
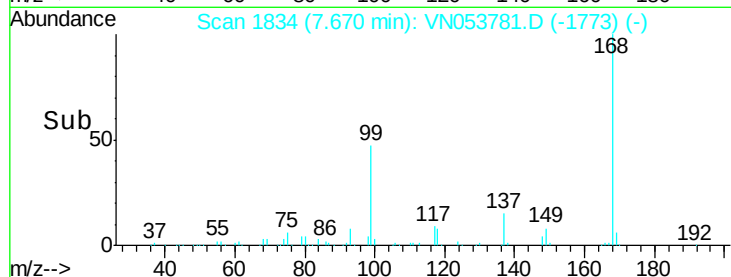
121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.300 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.05 min

Lab File: VN053781.D

Acq: 14 Feb 2019 16:02

Tgt Ion: 41 Resp: 1065

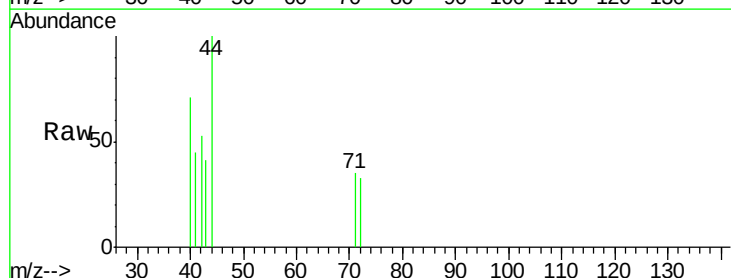
Ion Ratio Lower Upper

41 100

39 5.8 46.8 70.2#

67 0.0 63.0 94.6#

52 0.0 23.8 35.8#

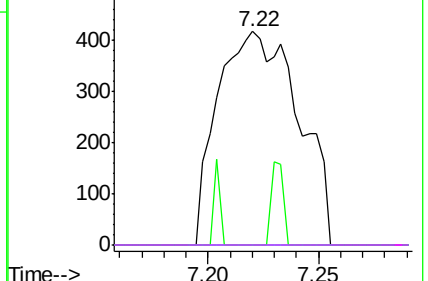
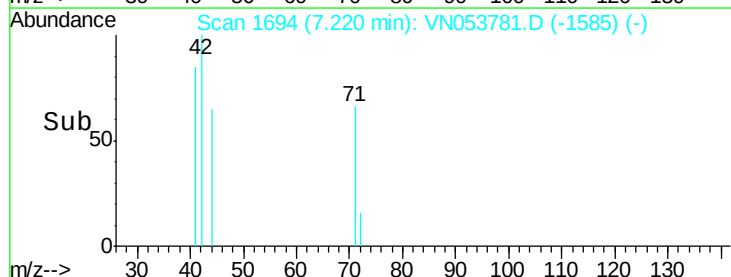


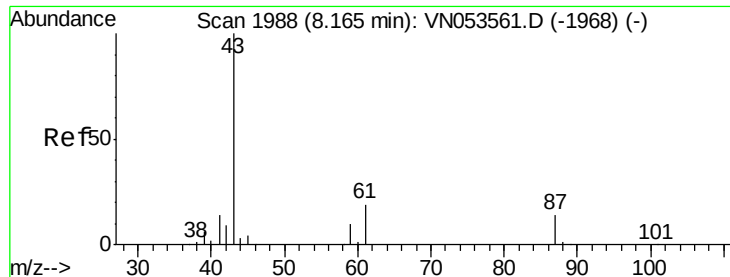
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





#43

Isopropyl Acetate

Concen: 2.763 ug/l

RT: 8.18 min Scan# 1991

Delta R.T. 0.01 min

Lab File: VN053781.D

Acq: 14 Feb 2019 16:02

Instrument :

MSVOA_N

ClientSampled :

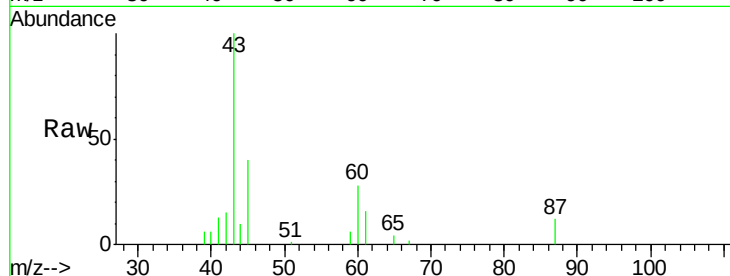
Tot Ion: 43 Resp: 33925

Ion Ratio Lower Upper

43 100

61 19.4 23.9 35.9#

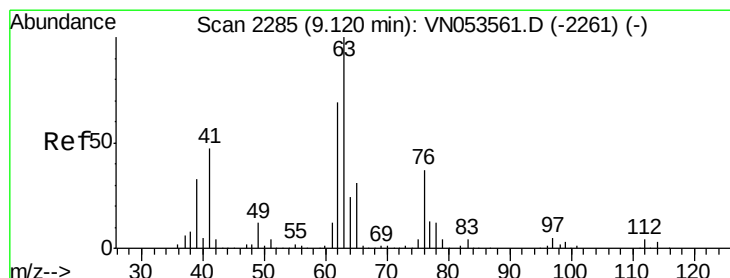
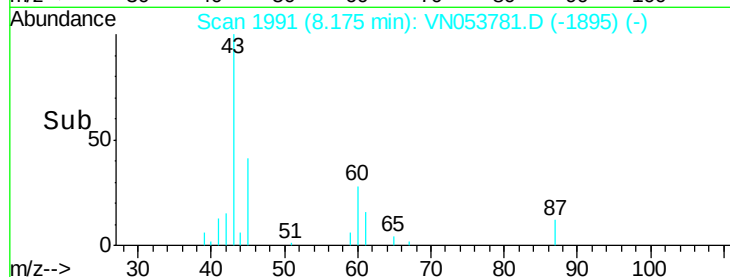
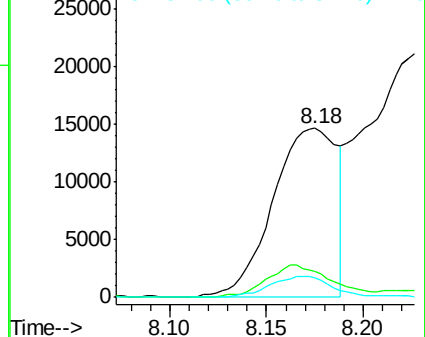
87 11.9 11.0 16.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.231 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN053781.D

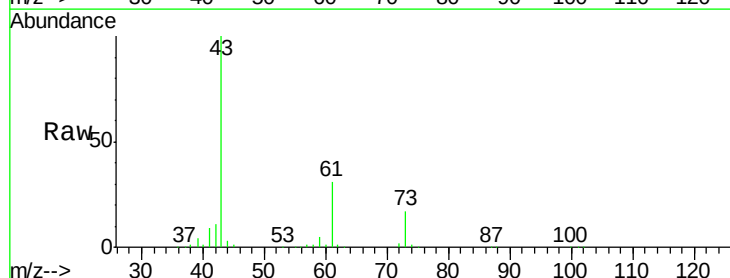
Acq: 14 Feb 2019 16:02

Tgt Ion: 63 Resp: 2078

Ion Ratio Lower Upper

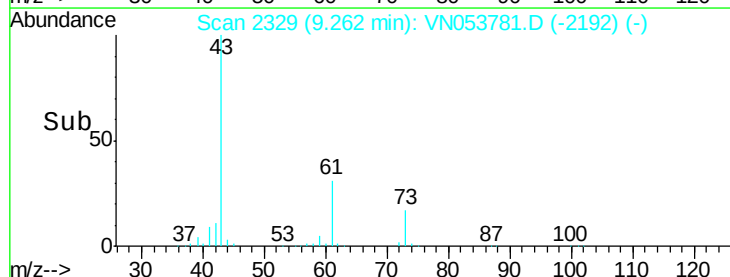
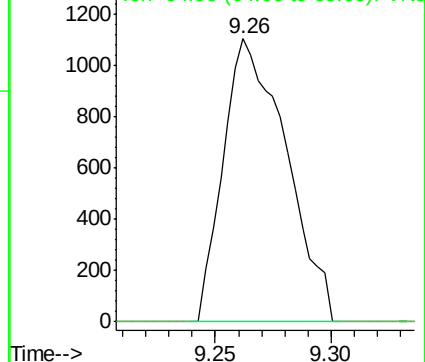
63 100

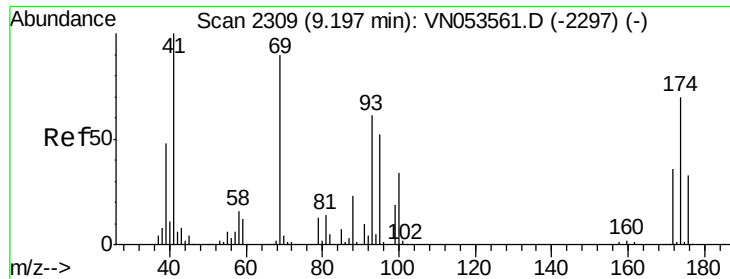
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

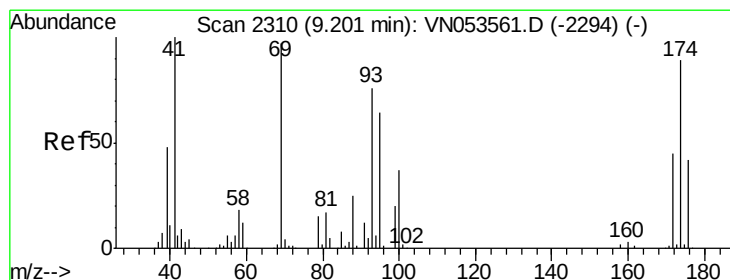
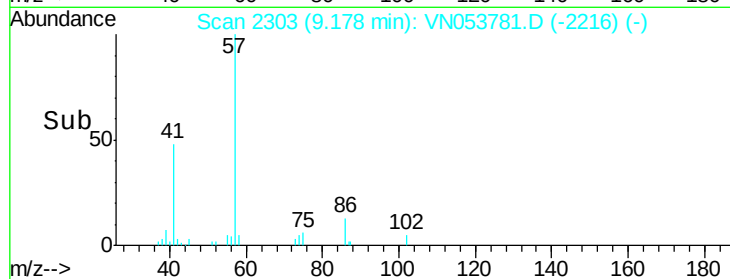
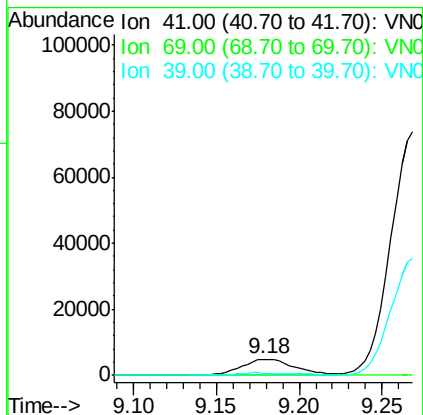
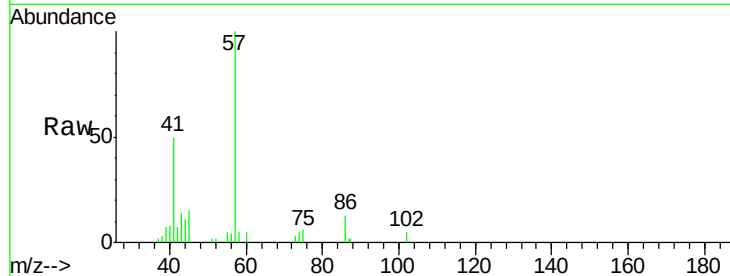




#48
Methvl methacrylate
Concen: 1.709 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053781.D
Acq: 14 Feb 2019 16:02

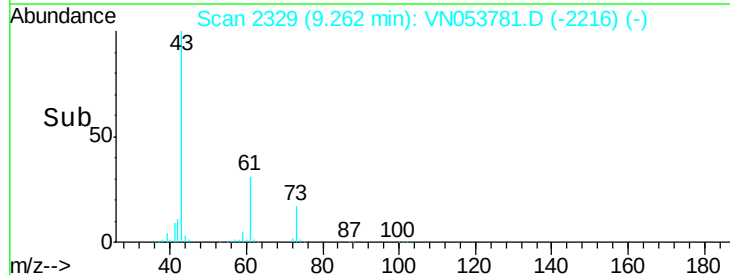
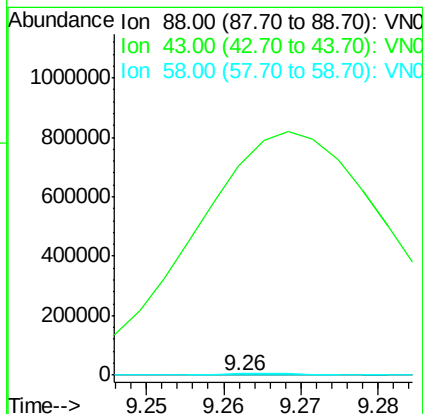
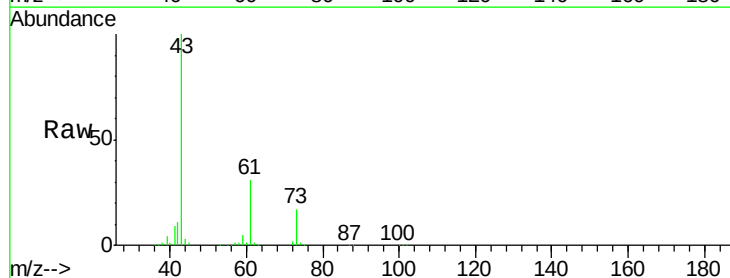
Instrument :
MSVOA_N
ClientSampled :

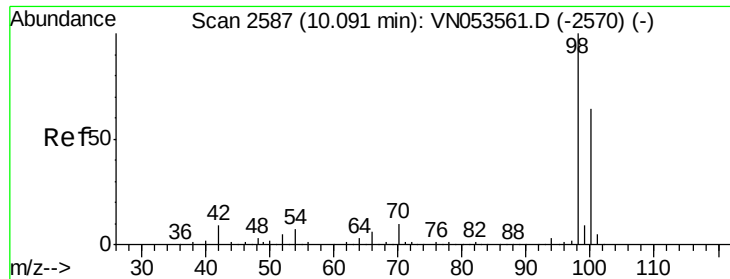
Tot Ion: 41 Resp: 10017
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#



#49
1,4-Dioxane
Concen: 40.150 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.06 min
Lab File: VN053781.D
Acq: 14 Feb 2019 16:02

Tgt Ion: 88 Resp: 93
Ion Ratio Lower Upper
88 100
43 1818334.4 27.8 41.6#
58 8802.2 56.5 84.7#





#50

Toluene-d8

Concen: 51.209 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053781.D

Acq: 14 Feb 2019 16:02

Instrument :

MSVOA_N

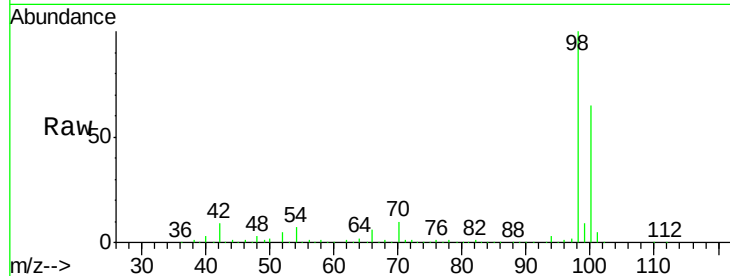
ClientSampled :

Tot Ion: 98 Resp: 1534305

Ion Ratio Lower Upper

98 100

100 64.7 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

800000

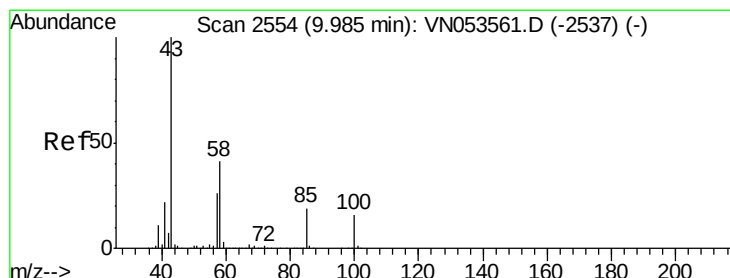
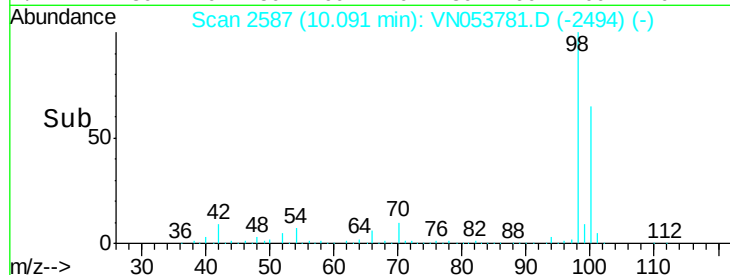
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.489 ug/l

RT: 10.03 min Scan# 2568

Delta R.T. 0.05 min

Lab File: VN053781.D

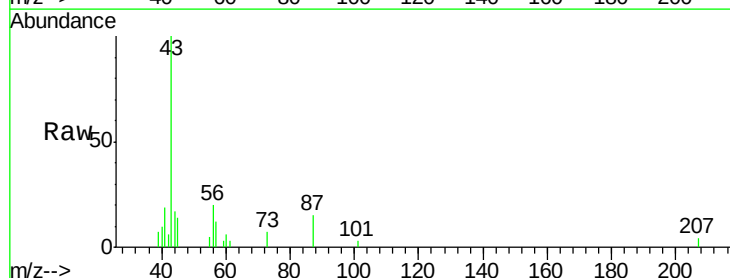
Acq: 14 Feb 2019 16:02

Tgt Ion: 43 Resp: 8982

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.03

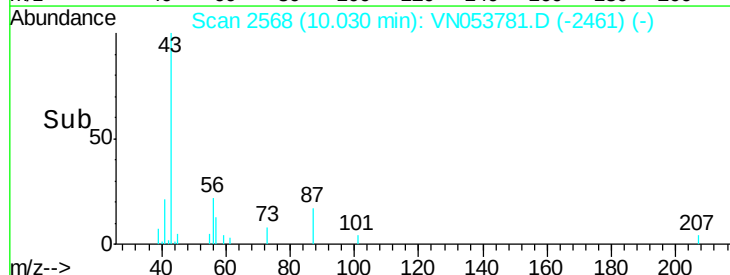
6000

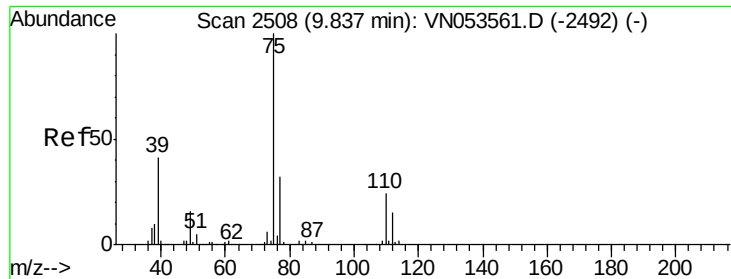
4000

2000

0

Time-->



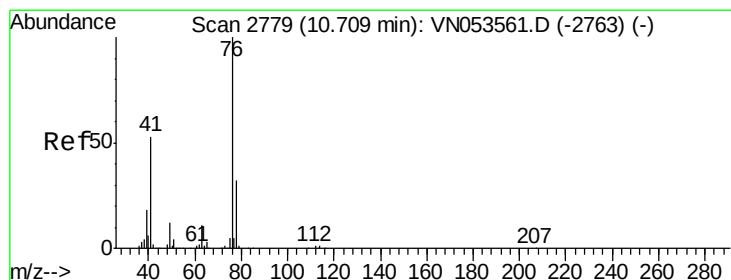
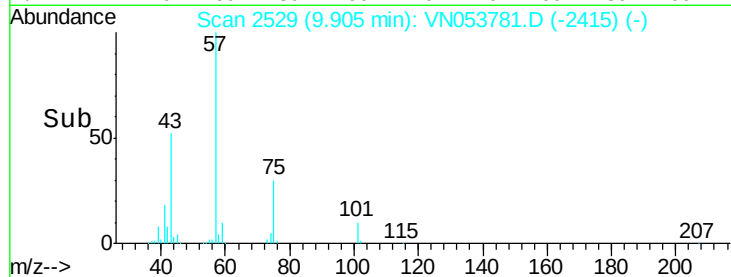
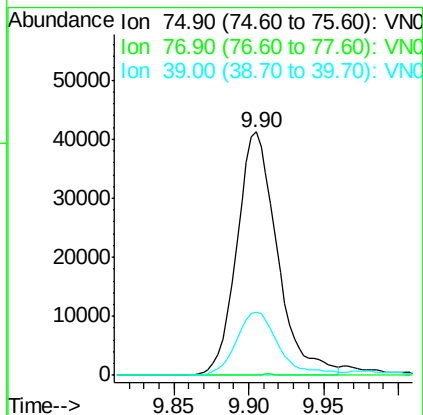
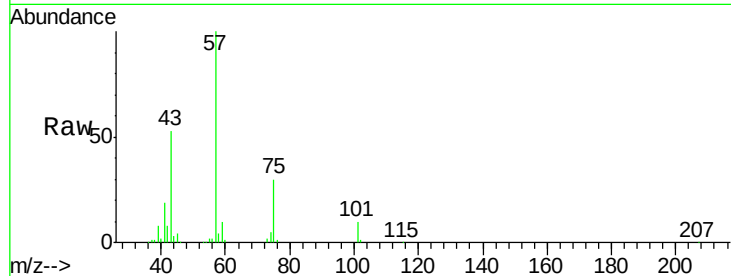


#54

cis-1,3-Dichloropropene
 Concen: 5.802 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053781.D
 Acq: 14 Feb 2019 16:02

Instrument :
 MSVOA_N
 ClientSampled :

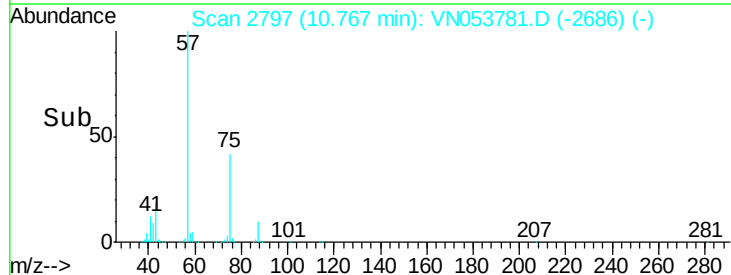
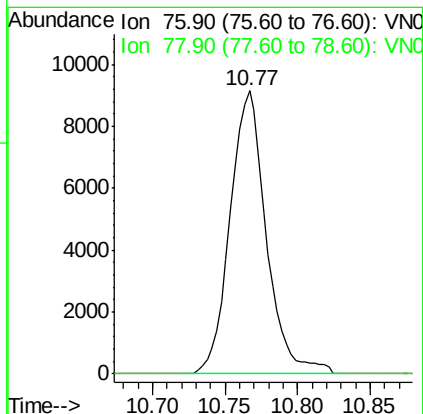
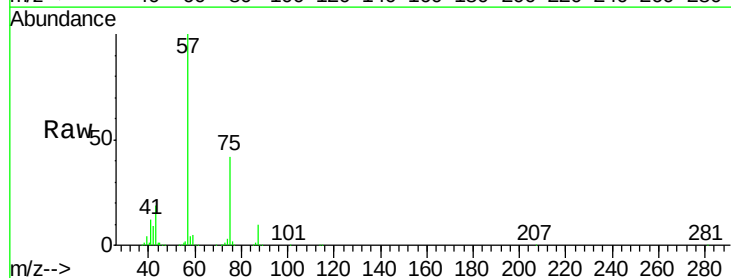
Tot Ion: 75 Resp: 77483
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.8 38.6#
 39 26.1 33.4 50.0#

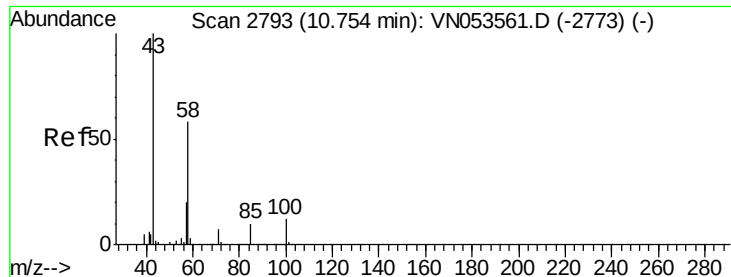


#57

1,3-Dichloropropane
 Concen: 1.234 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN053781.D
 Acq: 14 Feb 2019 16:02

Tgt Ion: 76 Resp: 15835
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

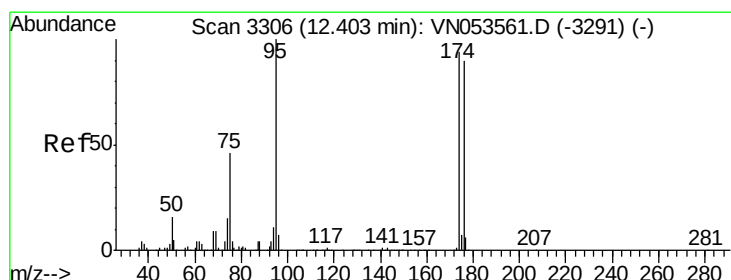
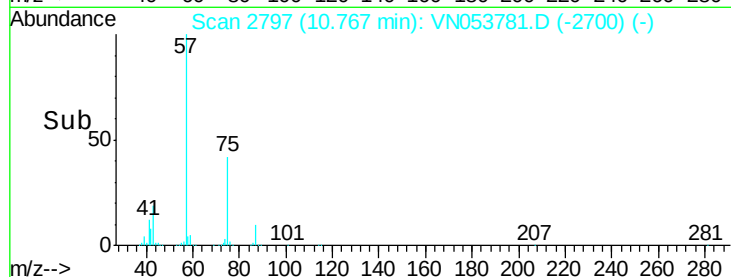
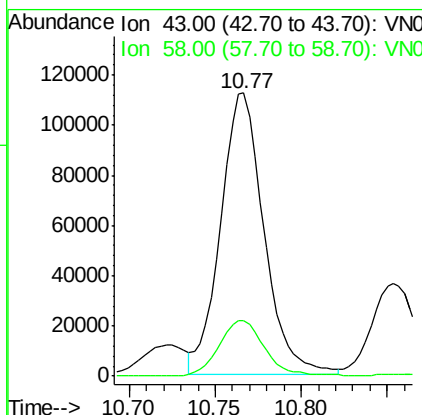
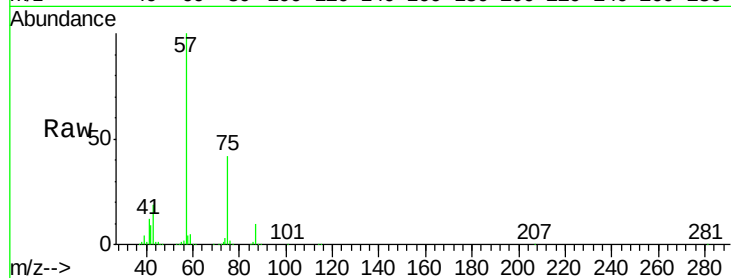




#59
2-Hexanone
Concen: 48.203 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053781.D
Acq: 14 Feb 2019 16:02

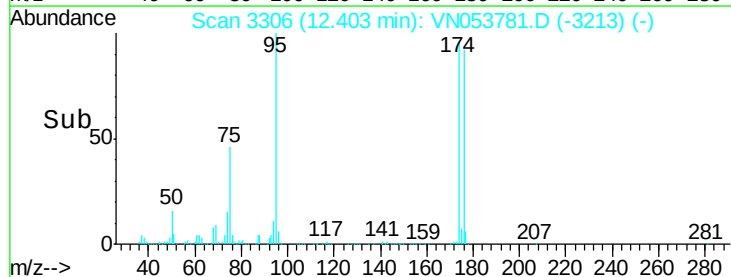
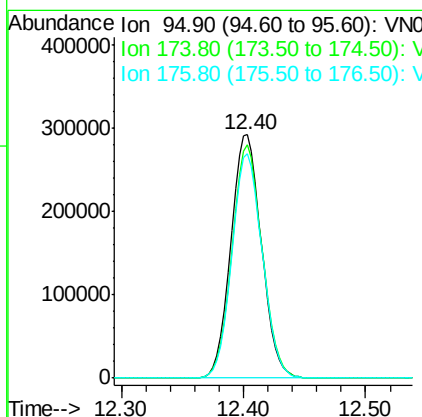
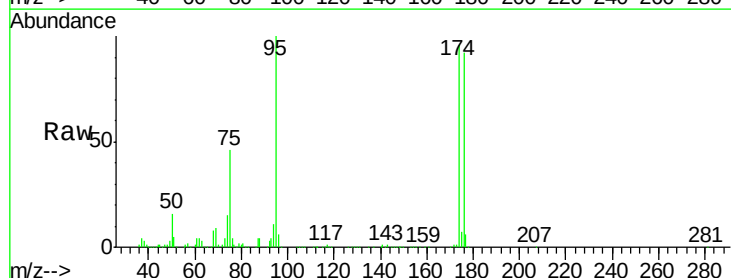
Instrument :
MSVOA_N
ClientSampled :

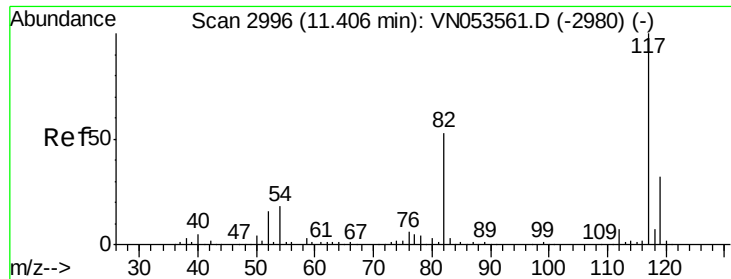
Tot Ion: 43 Resp: 197444
Ion Ratio Lower Upper
43 100
58 21.0 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: 50.877 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053781.D
Acq: 14 Feb 2019 16:02

Tgt Ion: 95 Resp: 508393
Ion Ratio Lower Upper
95 100
174 94.6 0.0 183.2
176 91.5 0.0 177.4

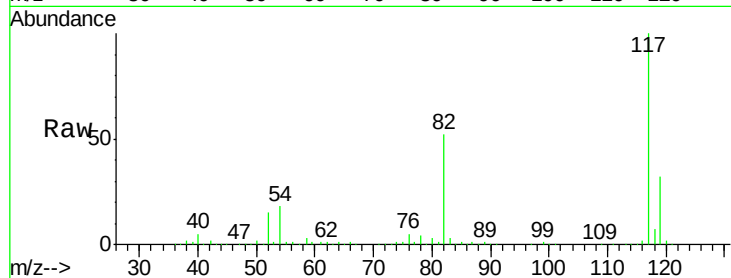




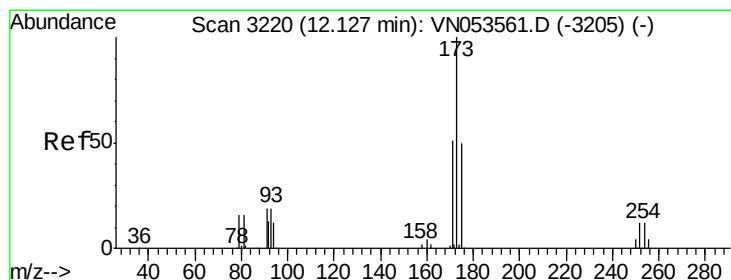
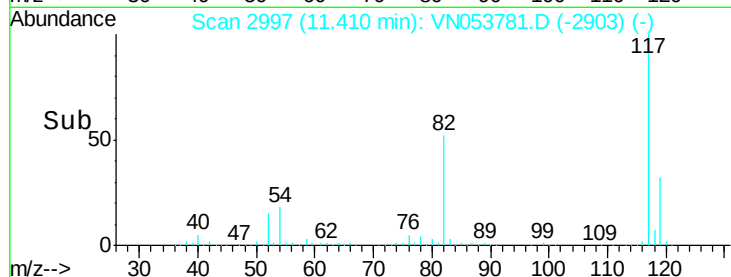
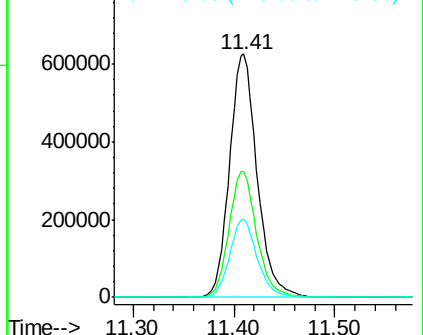
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053781.D
Acq: 14 Feb 2019 16:02

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1189715
Ion Ratio Lower Upper
117 100
82 51.6 42.9 64.3
119 32.1 26.0 39.0

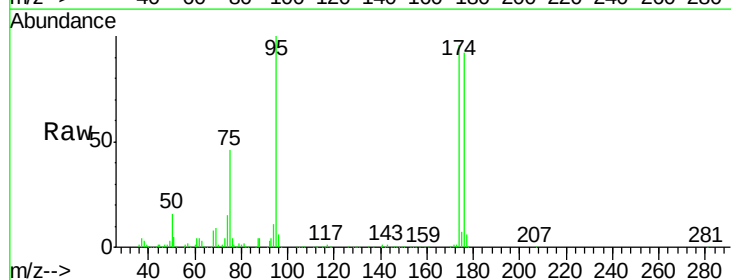


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

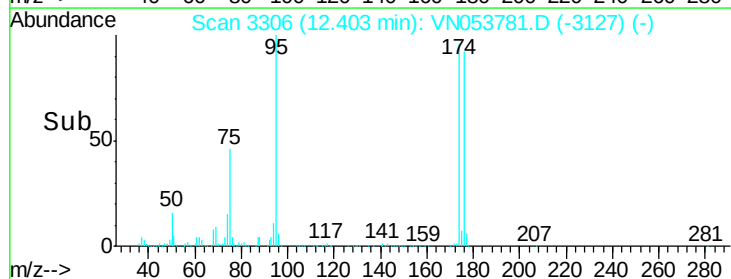
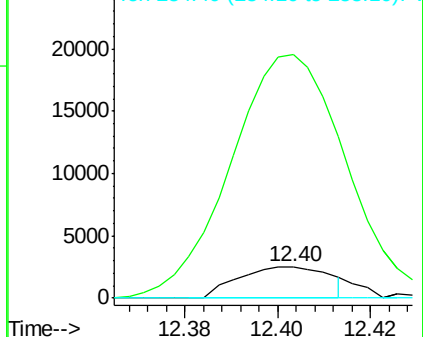


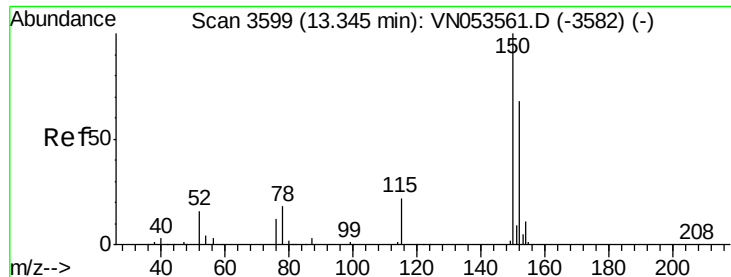
#71
Bromoform
Concen: 0.565 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053781.D
Acq: 14 Feb 2019 16:02

Tgt Ion:173 Resp: 3417
Ion Ratio Lower Upper
173 100
175 850.9 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: VN053781.D

Acq: 14 Feb 2019 16:02

Instrument :

MSVOA_N

ClientSampled :

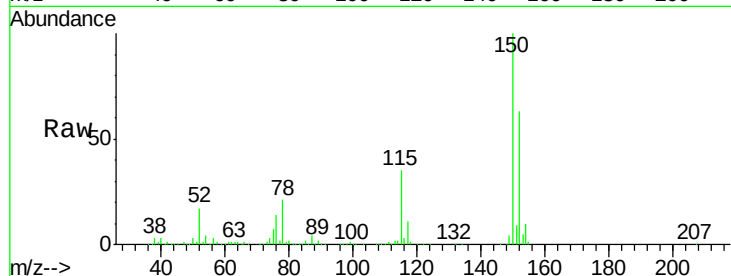
Tot Ion:152 Resp: 462770

Ion Ratio Lower Upper

152 100

115 55.7 27.8 83.4

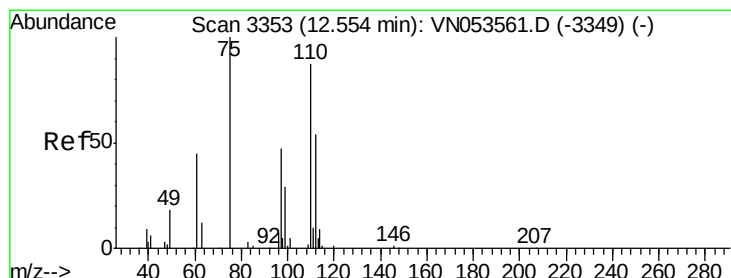
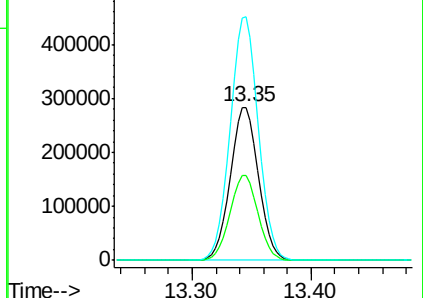
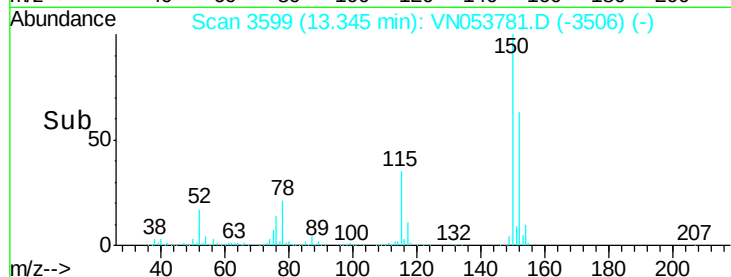
150 159.4 0.0 349.0



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: 39.096 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053781.D

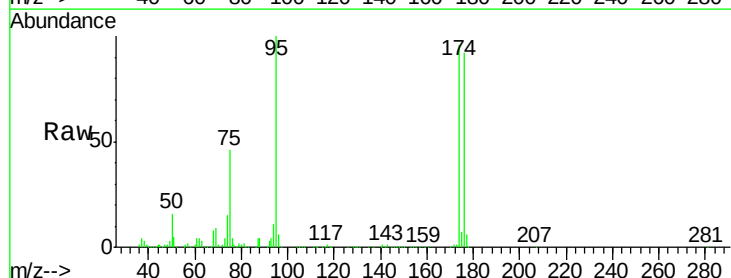
Acq: 14 Feb 2019 16:02

Tgt Ion: 75 Resp: 232386

Ion Ratio Lower Upper

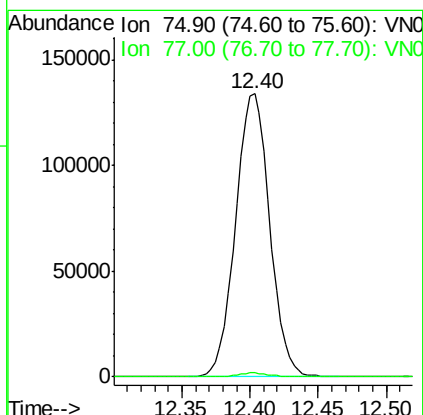
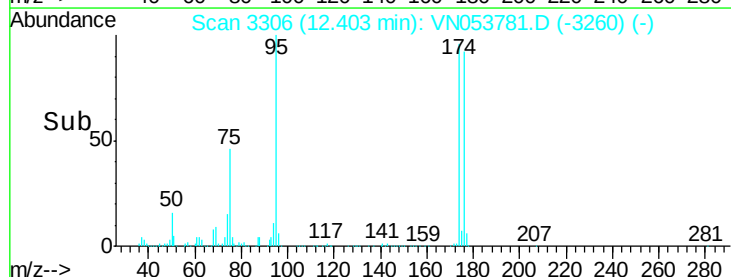
75 100

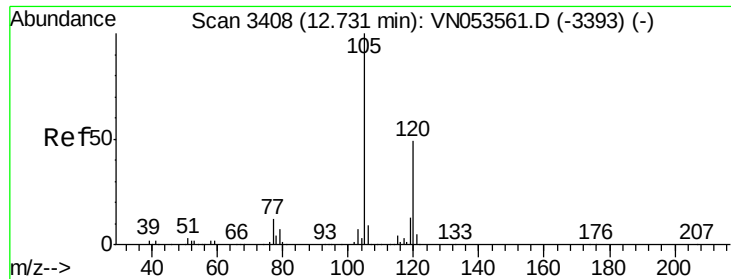
77 1.3 0.0 0.0#



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: 0.490 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053781.D

Acq: 14 Feb 2019 16:02

Instrument :

MSVOA_N

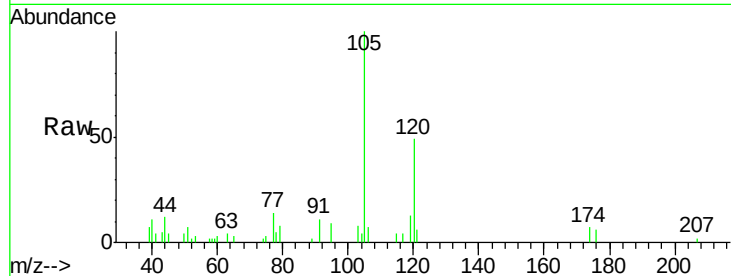
ClientSampled :

Tot Ion:105 Resp: 13228

Ion Ratio Lower Upper

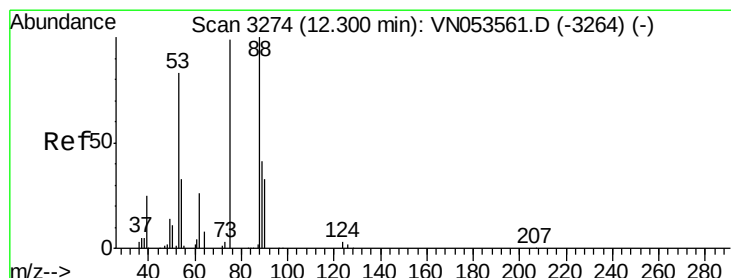
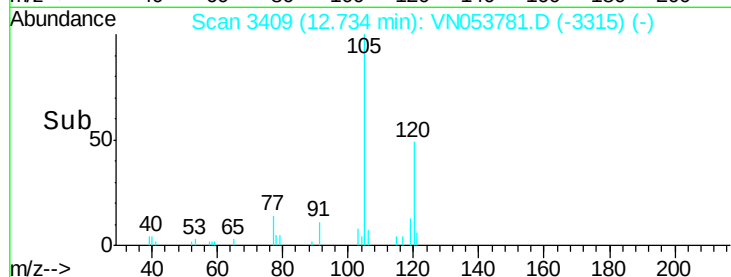
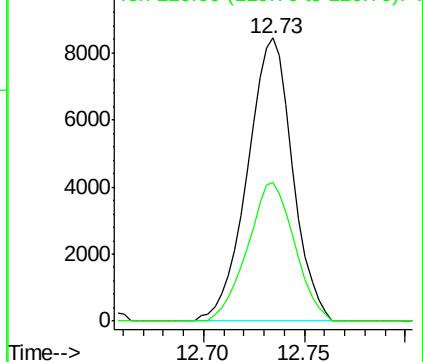
105 100

120 50.8 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 109.935 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053781.D

Acq: 14 Feb 2019 16:02

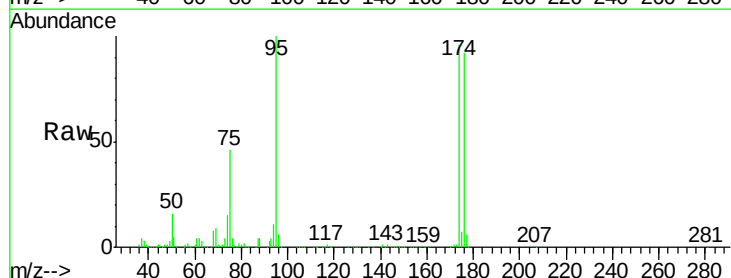
Tgt Ion: 75 Resp: 232386

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

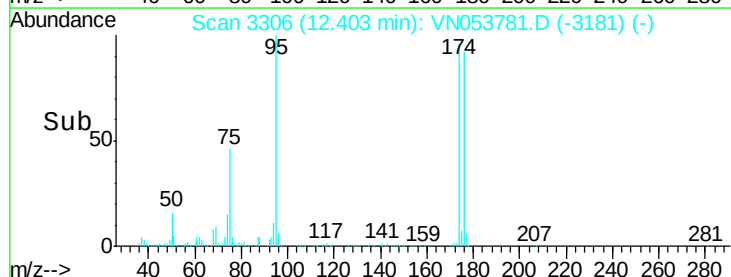
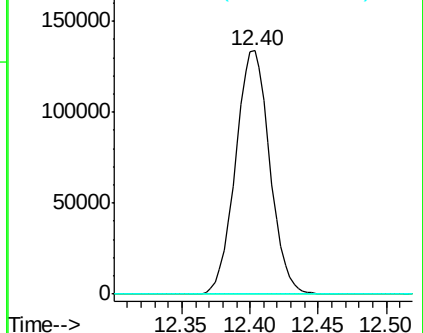
89 0.0 35.6 53.4#

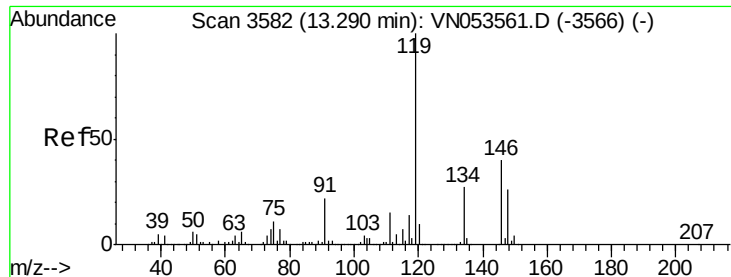


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

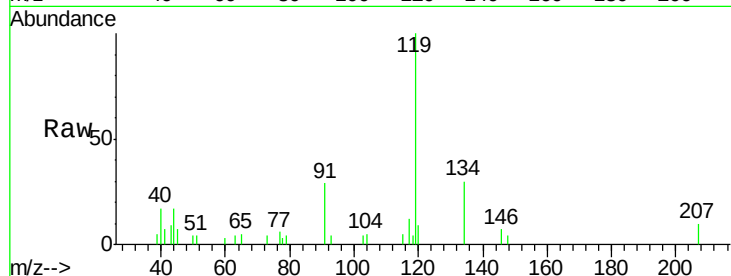




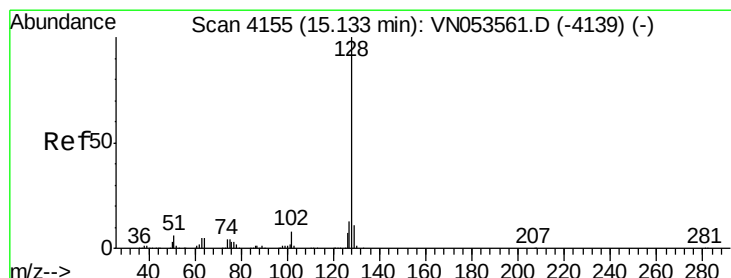
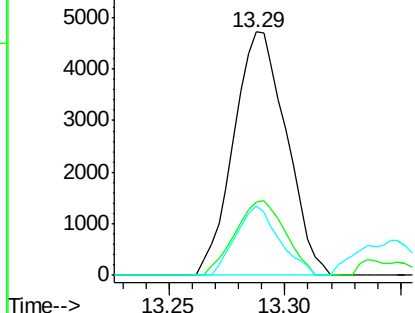
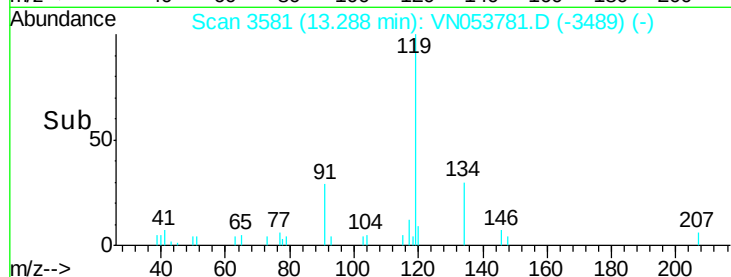
#86
 p-Isopropyltoluene
 Concen: 0.263 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN053781.D
 Acq: 14 Feb 2019 16:02

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	29.1	13.5	40.4
91	23.4	11.0	33.0

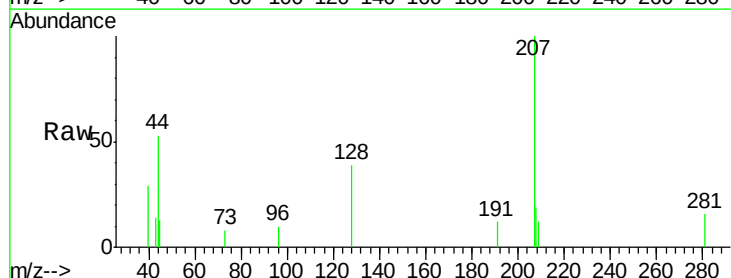


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V



#95
 Naphthalene
 Concen: 1.786 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN053781.D
 Acq: 14 Feb 2019 16:02

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	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

