

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021519\
 Data File : VN053810.D
 Acq On : 15 Feb 2019 19:46
 Operator : JC/SP
 Sample : PB117124ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 15 23:28:01 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	659143	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1120445	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1057274	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	418154	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	353535	53.46	ug/l	0.00
Spiked Amount			Recovery	=	106.92%	
35) Dibromofluoromethane	7.59	113	354365	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
50) Toluene-d8	10.09	98	1362823	51.27	ug/l	0.00
Spiked Amount			Recovery	=	102.54%	
62) 4-Bromofluorobenzene	12.40	95	452535	51.04	ug/l	0.00
Spiked Amount			Recovery	=	102.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	14494	8.545	ug/l	98
18) Methyl Acetate	4.34	43	3581	0.713	ug/l #	59
20) Methylene Chloride	4.56	84	10611	1.491	ug/l	93
25) 2-Butanone	6.84	43	3533	1.460	ug/l	92
29) Tetrahydrofuran	7.21	42	618	0.398	ug/l #	49
31) Cyclohexane	7.67	56	9547	0.687	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40138	3.974	ug/l #	49
38) Carbon Tetrachloride	7.67	117	51744	5.086	ug/l #	16
41) Methacrylonitrile	7.22	41	739	0.234	ug/l #	37
43) Isopropyl Acetate	8.17	43	32644	2.997	ug/l #	82
45) 1,2-Dichloropropane	9.26	63	1812	0.227	ug/l #	43
48) Methyl methacrylate	9.18	41	7596	1.461	ug/l #	12
49) 1,4-Dioxane	9.26	88	31	39.493	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	9328	1.742	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	69113	5.833	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	13686	1.202	ug/l #	43
59) 2-Hexanone	10.77	43	171497	47.190	ug/l #	51
74) N-amyl acetate	11.88	43	19101	2.702	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	209068	38.926	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7515	0.308	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	209068	109.456	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

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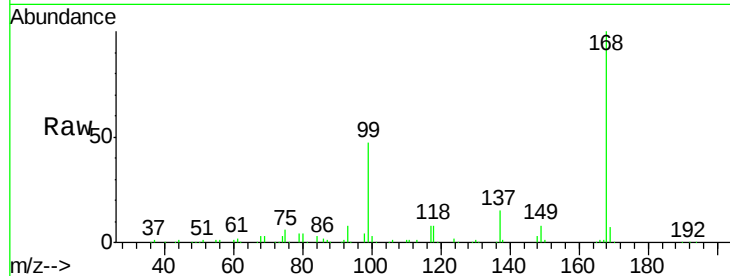
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 659143

Ion Ratio Lower Upper

168 100

99 47.2 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

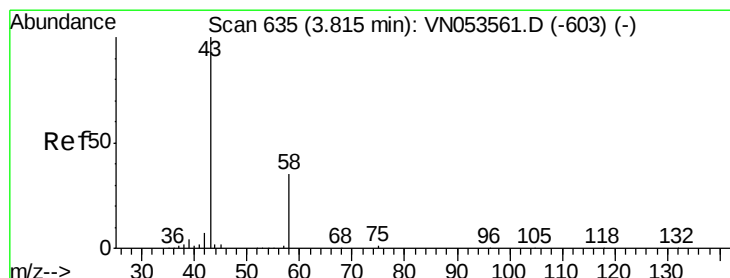
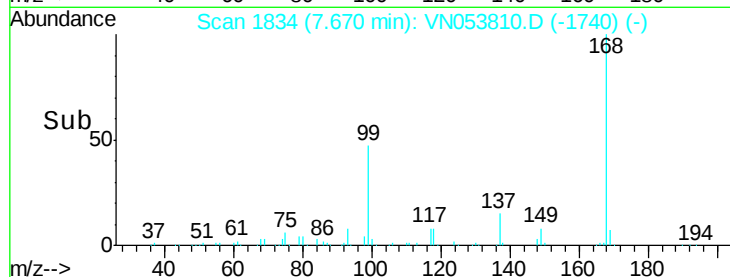
100000

50000

0

Time-->

7.60 7.70 7.80



#16

Acetone

Concen: 8.545 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN053810.D

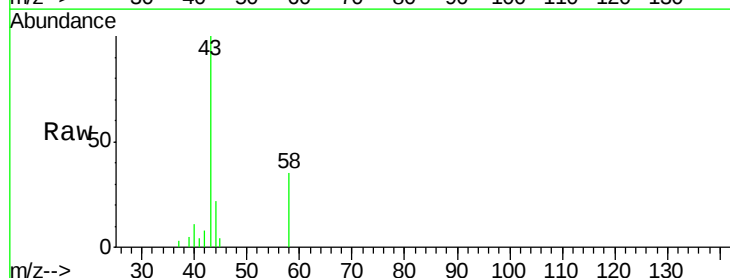
Acq: 15 Feb 2019 19:46

Tgt Ion: 43 Resp: 14494

Ion Ratio Lower Upper

43 100

58 35.2 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.82

5000

4000

3000

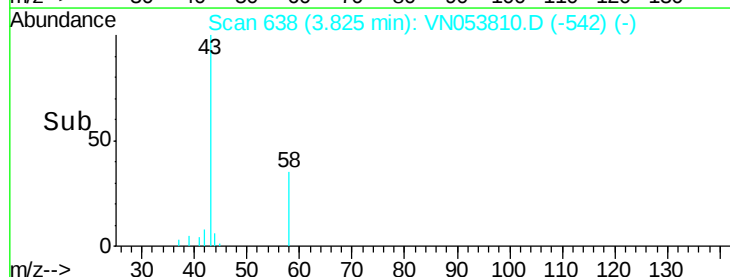
2000

1000

0

Time-->

3.75 3.80 3.85 3.90

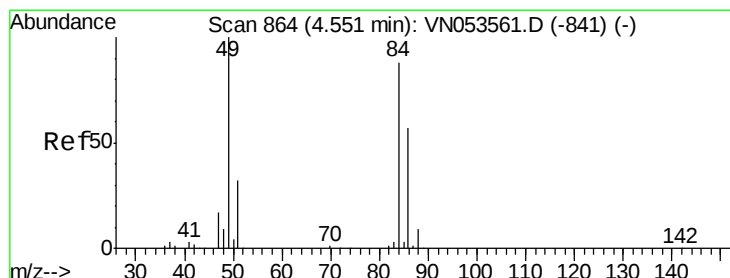
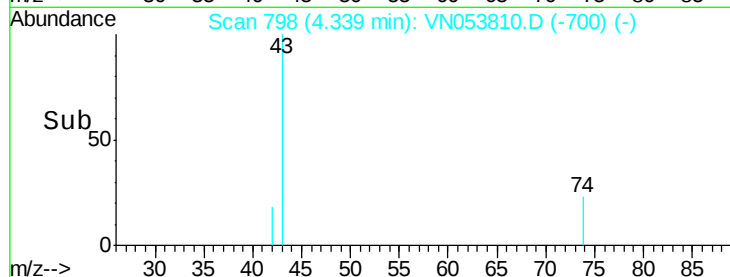
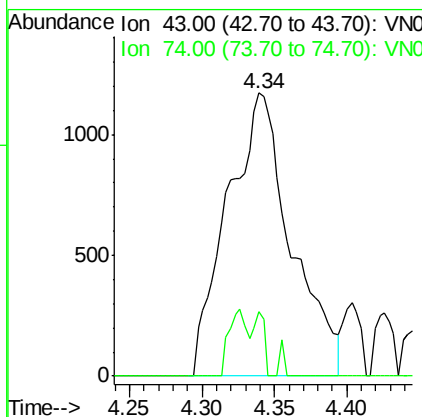
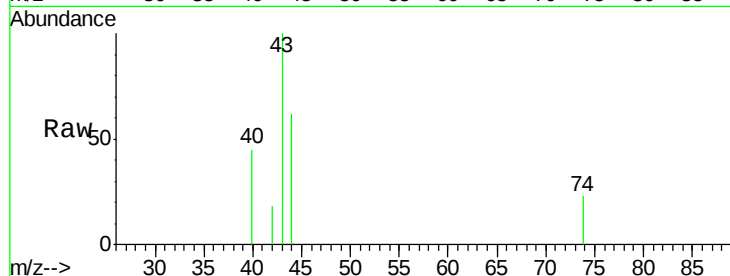




#18
Methyl Acetate
Concen: 0.713 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.02 min
Lab File: VN053810.D
Acq: 15 Feb 2019 19:46

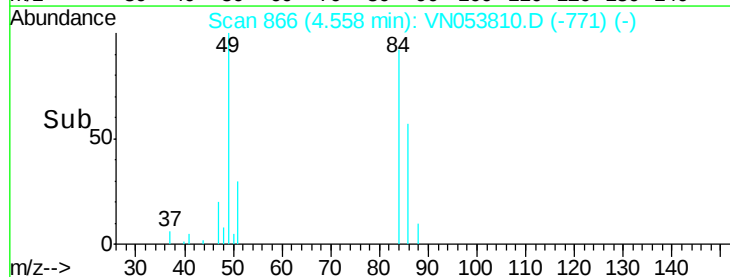
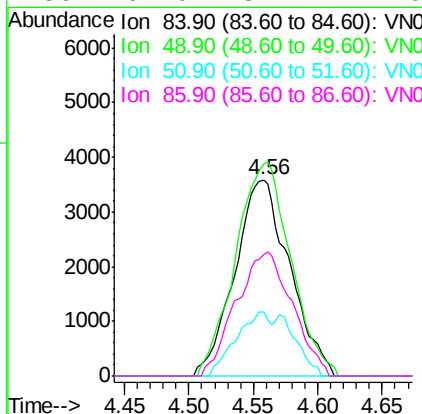
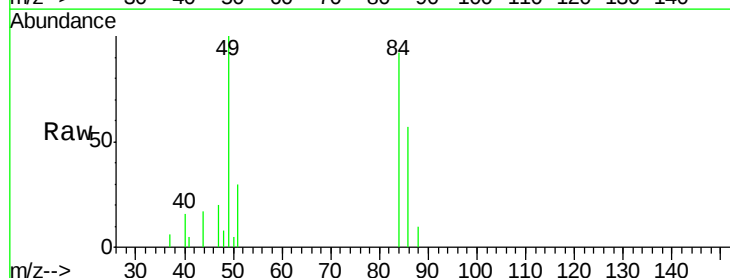
Instrument :
MSVOA_N
ClientSampled :

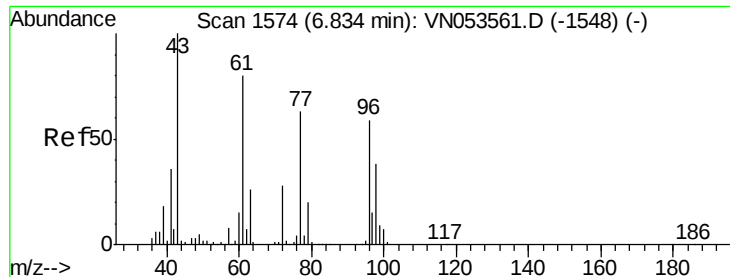
Tot Ion: 43 Resp: 3581
Ion Ratio Lower Upper
43 100
74 3.8 19.4 29.2#



#20
Methylene Chloride
Concen: 1.491 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053810.D
Acq: 15 Feb 2019 19:46

Tgt Ion: 84 Resp: 10611
Ion Ratio Lower Upper
84 100
49 108.2 94.3 141.5
51 32.4 29.4 44.2
86 62.0 51.4 77.0

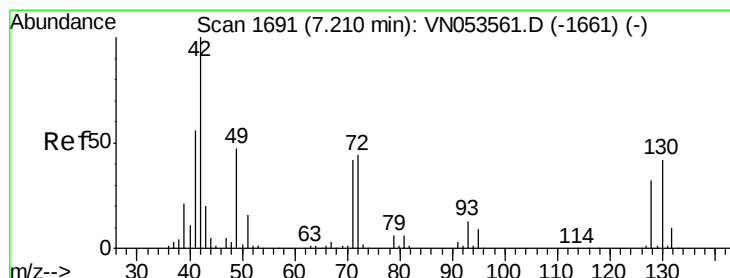
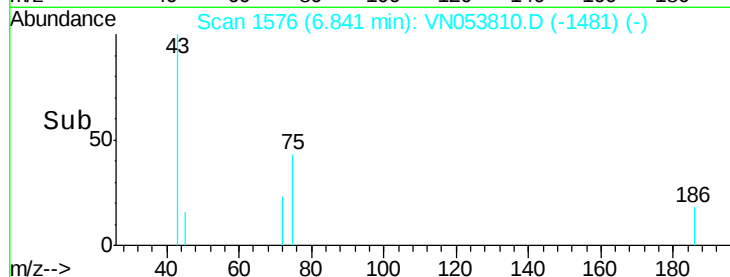
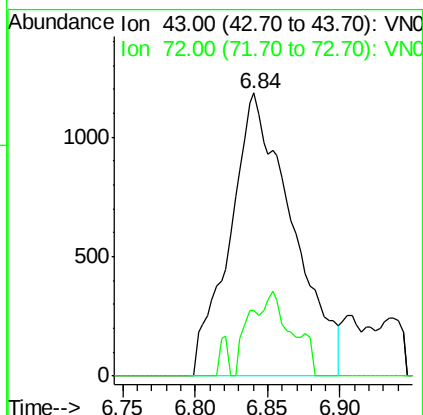
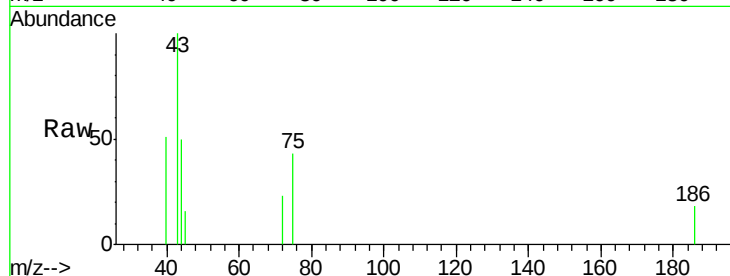




#25
2-Butanone
Concen: 1.460 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053810.D
Acq: 15 Feb 2019 19:46

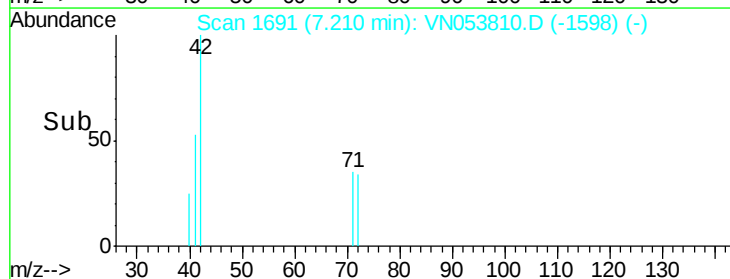
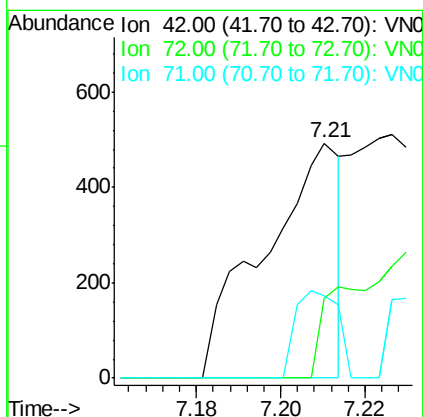
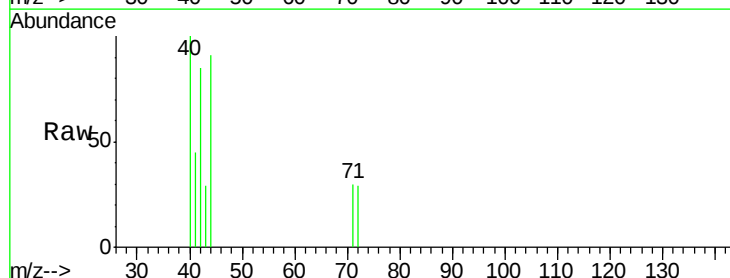
Instrument :
MSVOA_N
ClientSampled :

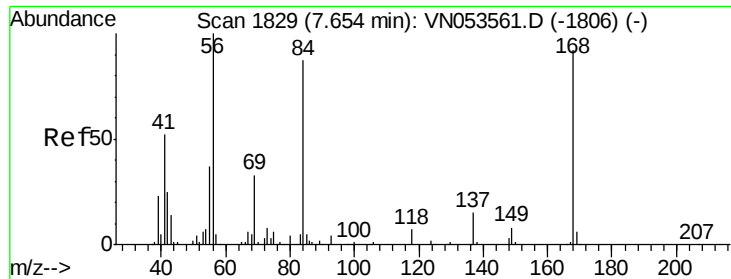
Tot Ion: 43 Resp: 3533
Ion Ratio Lower Upper
43 100
72 23.1 22.0 33.0



#29
Tetrahydrofuran
Concen: 0.398 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053810.D
Acq: 15 Feb 2019 19:46

Tgt Ion: 42 Resp: 618
Ion Ratio Lower Upper
42 100
72 0.0 35.2 52.8#
71 20.7 33.0 49.4#





#31

Cyclohexane

Concen: 0.687 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

Instrument :
MSVOA_N
ClientSampleId :

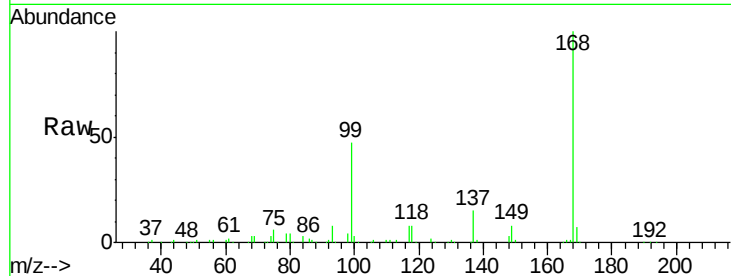
Tot Ion: 56 Resp: 9547

Ion Ratio Lower Upper

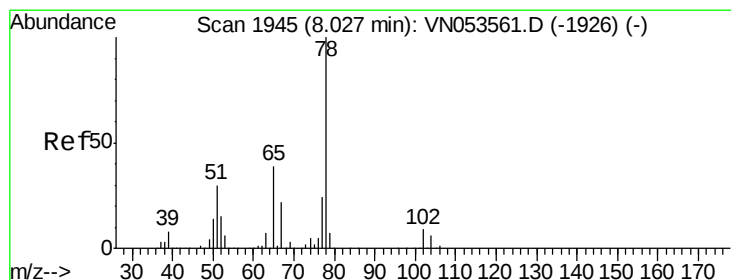
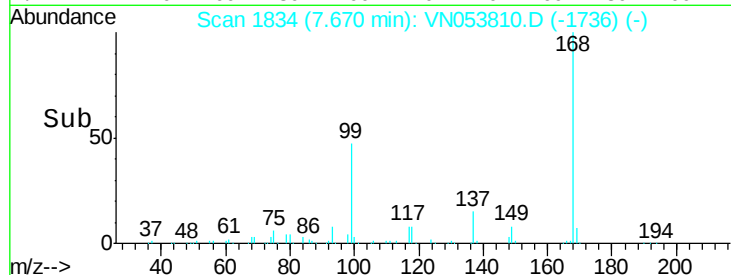
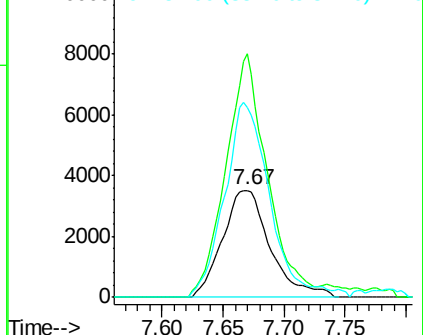
56 100

69 227.4 26.4 39.6#

84 177.6 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: 53.465 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053810.D

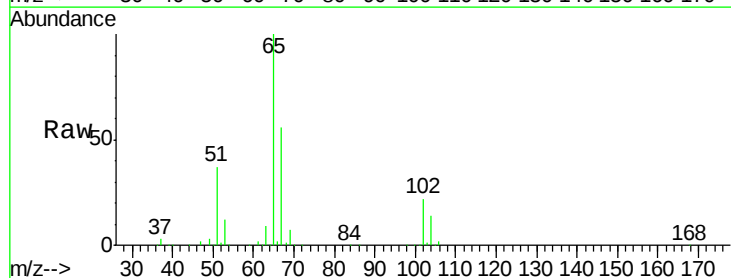
Acq: 15 Feb 2019 19:46

Tgt Ion: 65 Resp: 353535

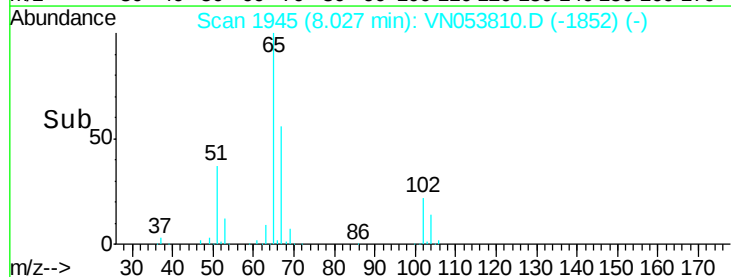
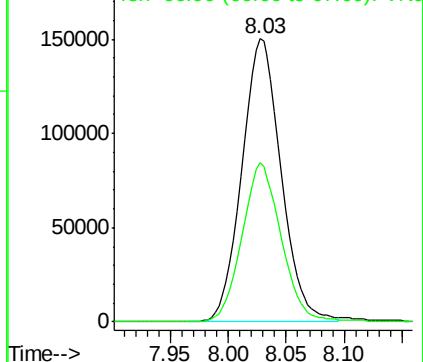
Ion Ratio Lower Upper

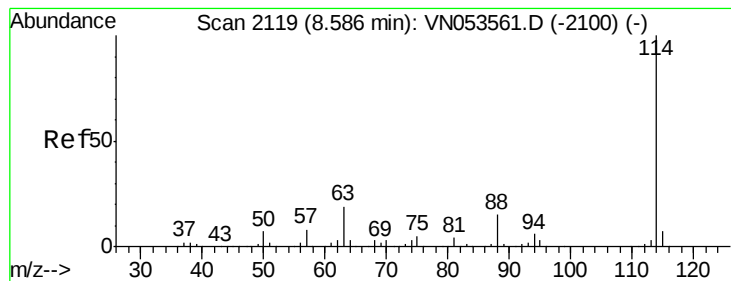
65 100

67 56.0 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: VN053810.D

Acq: 15 Feb 2019 19:46

Instrument :

MSVOA_N

ClientSampleId :

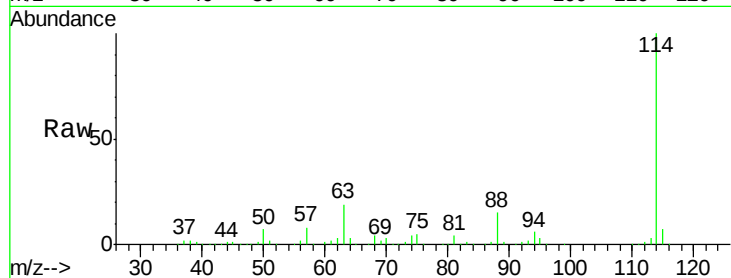
Tot Ion:114 Resp: 1120445

Ion Ratio Lower Upper

114 100

63 18.7 0.0 38.6

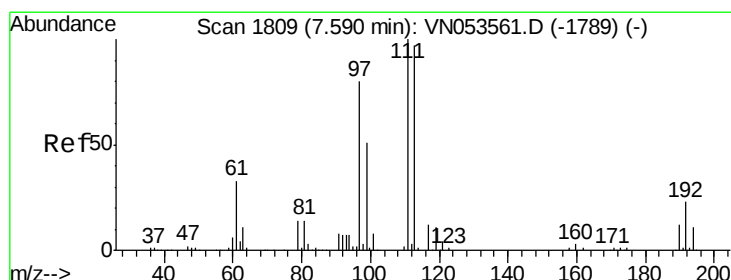
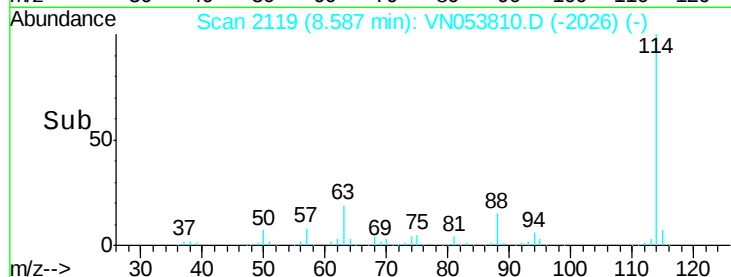
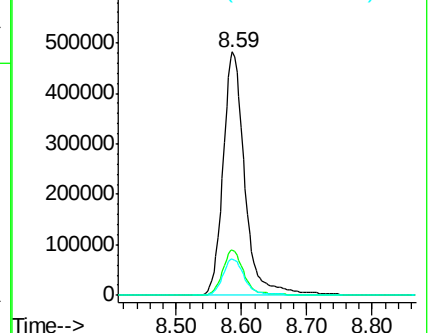
88 14.9 0.0 30.4



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: 50.053 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

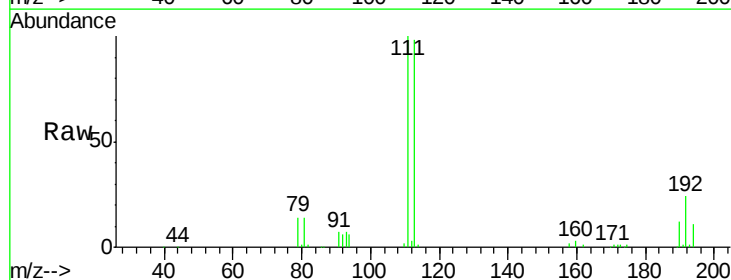
Tgt Ion:113 Resp: 354365

Ion Ratio Lower Upper

113 100

111 102.9 81.1 121.7

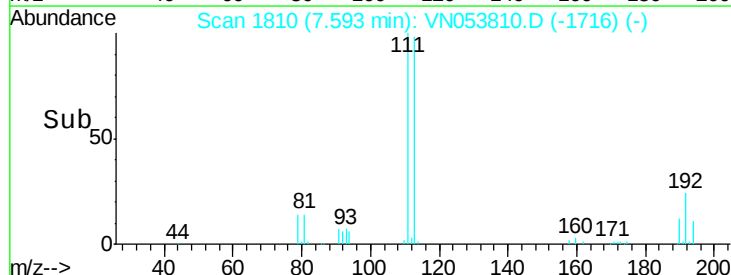
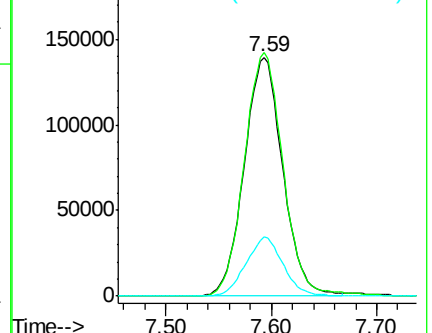
192 23.9 18.2 27.2

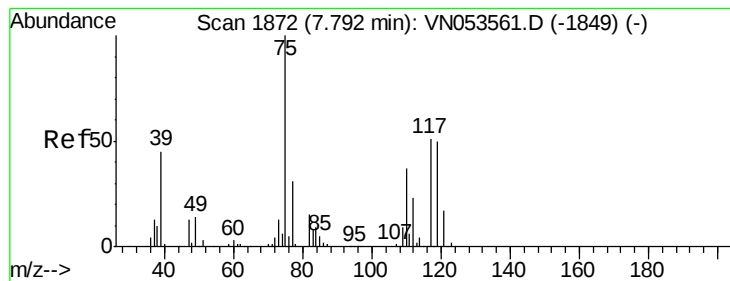


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.974 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

Instrument :
MSVOA_N
ClientSampleId :

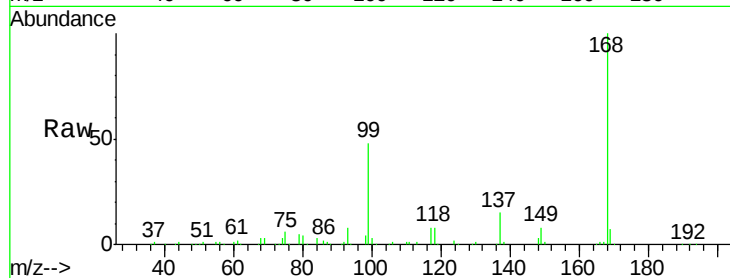
Tot Ion: 75 Resp: 40138

Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.3#

77 0.0 25.1 37.7#

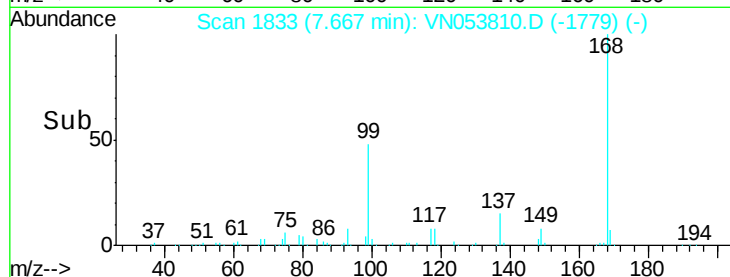


Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-1849) (-)

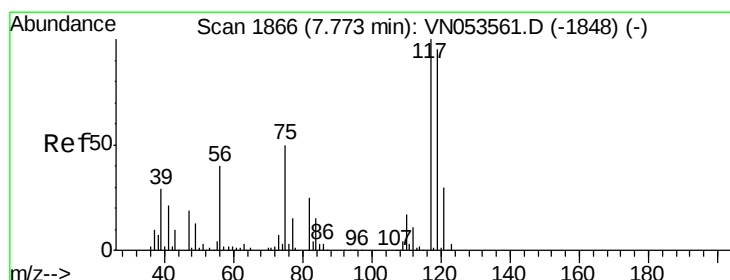
Ion 109.90 (109.60 to 110.60): VN053561.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN053561.D (-1849) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 5.086 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

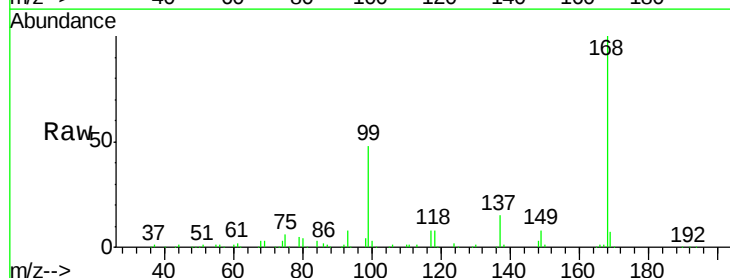
Tgt Ion: 117 Resp: 51744

Ion Ratio Lower Upper

117 100

119 5.7 77.2 115.8#

121 0.0 24.6 37.0#

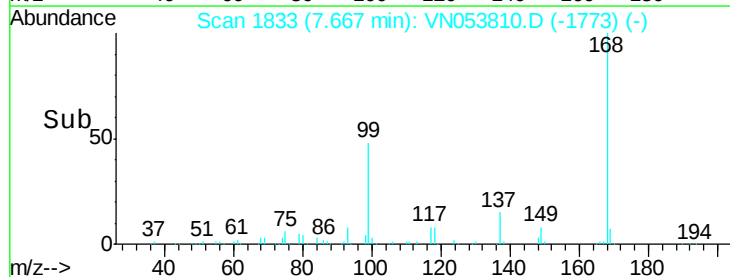


Abundance Ion 116.80 (116.50 to 117.50): VN053561.D (-1848) (-)

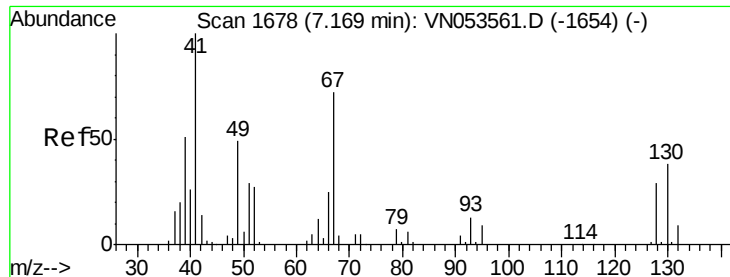
Ion 118.80 (118.50 to 119.50): VN053561.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN053561.D (-1848) (-)

Time-->



Time-->



#41

Methacrylonitrile

Concen: 0.234 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.05 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 739

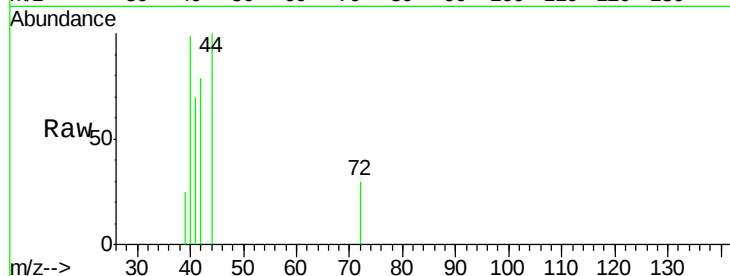
Ion Ratio Lower Upper

41 100

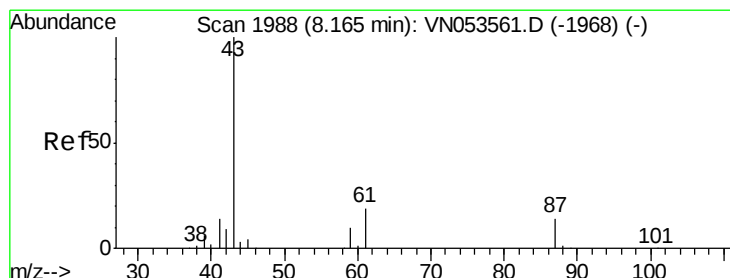
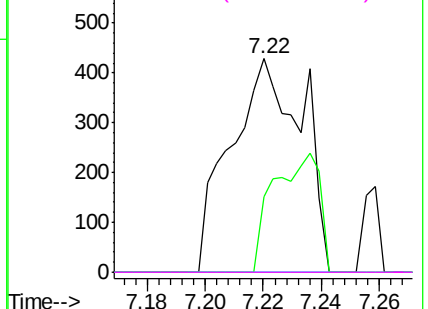
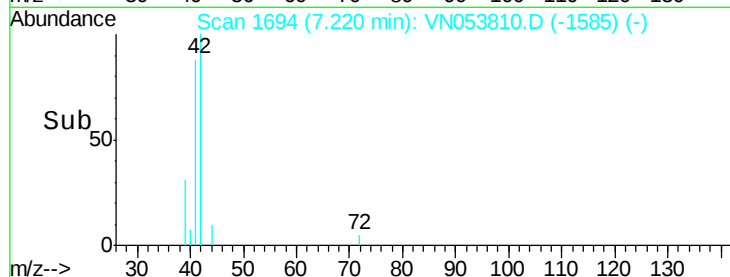
39 35.7 46.8 70.2#

67 0.0 63.0 94.6#

52 0.0 23.8 35.8#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO



#43

Isopropyl Acetate

Concen: 2.997 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

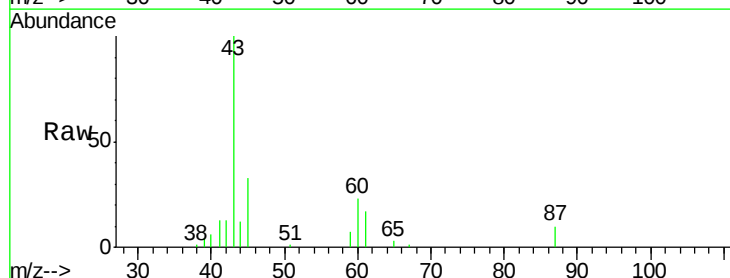
Tgt Ion: 43 Resp: 32644

Ion Ratio Lower Upper

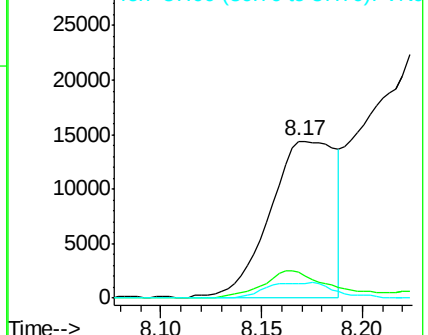
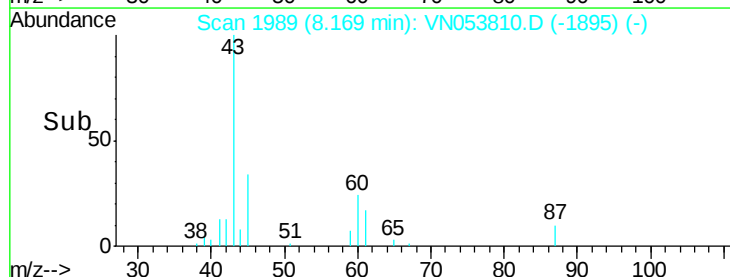
43 100

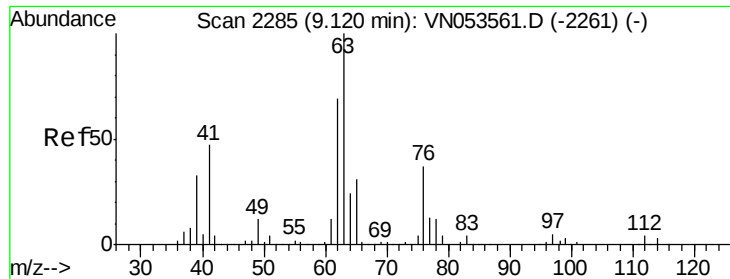
61 17.7 23.9 35.9#

87 10.1 11.0 16.6#



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

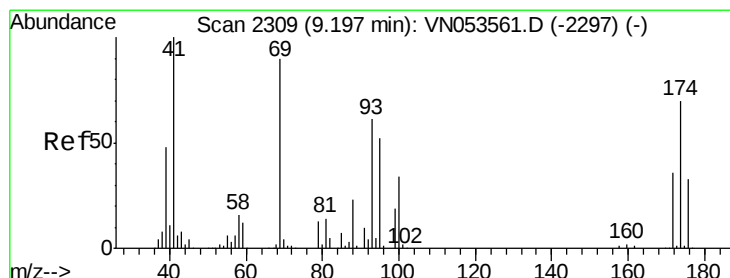
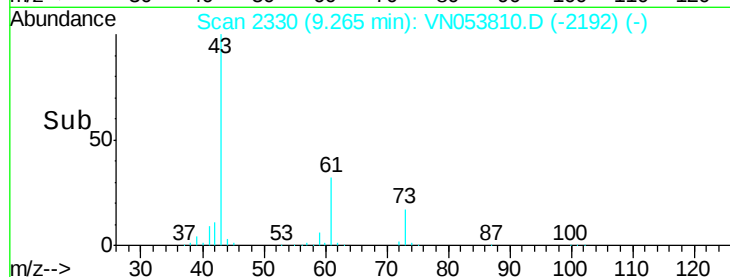
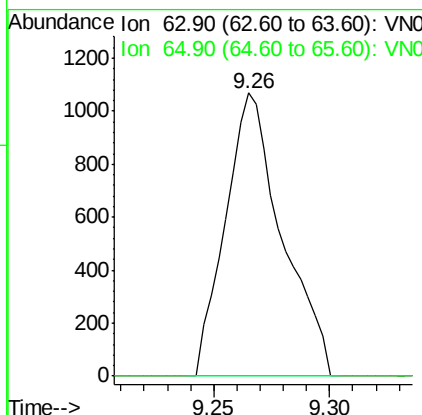
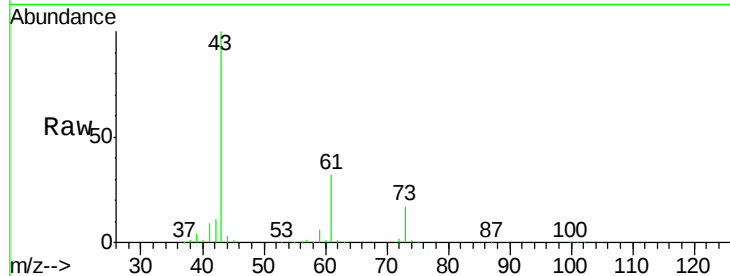




#45
 1,2-Dichloropropane
 Concen: 0.227 ug/l
 RT: 9.26 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN053810.D
 Acq: 15 Feb 2019 19:46

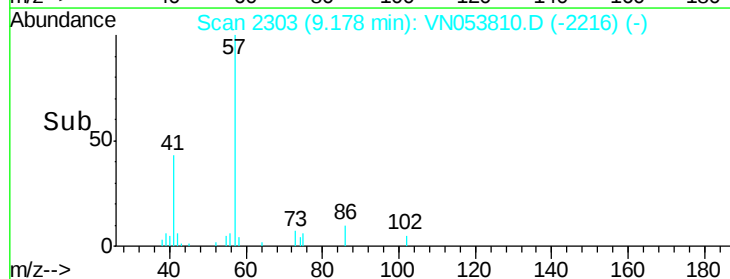
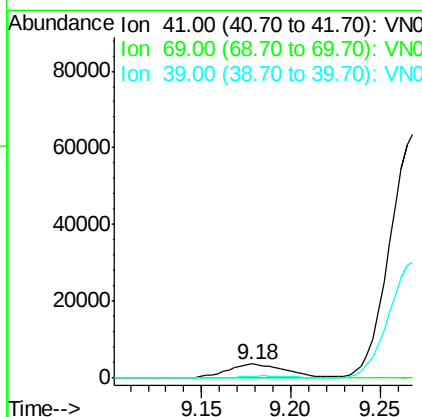
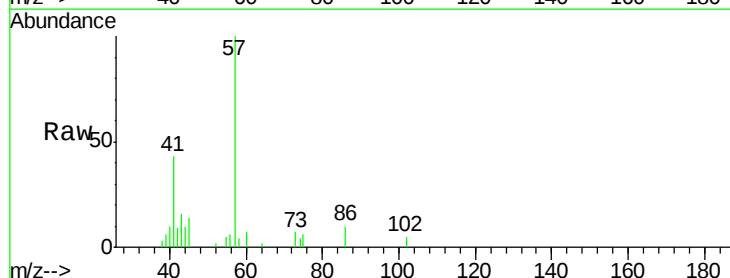
Instrument :
 MSVOA_N
 ClientSampled :

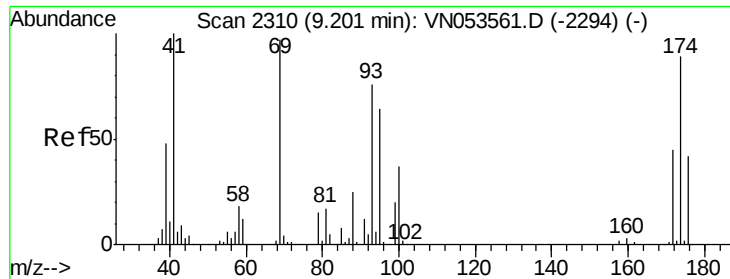
Tot Ion: 63 Resp: 1812
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.461 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053810.D
 Acq: 15 Feb 2019 19:46

Tgt Ion: 41 Resp: 7596
 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: 39.493 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.06 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

Instrument :

MSVOA_N

ClientSampleId :

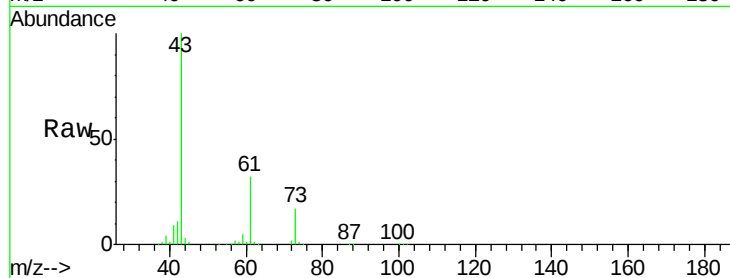
Tot Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 4635625.8 27.8 41.6#

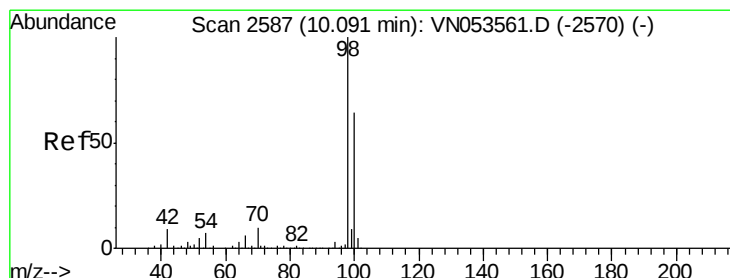
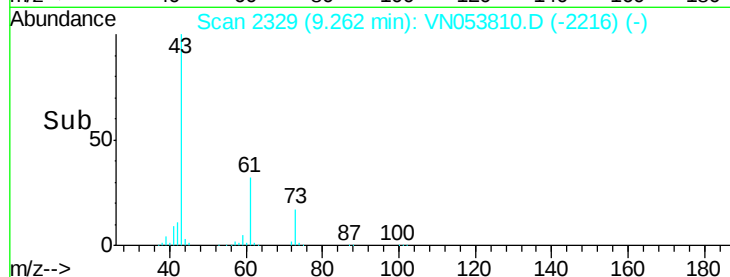
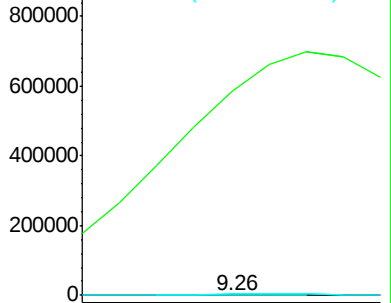
58 24183.9 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 51.266 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053810.D

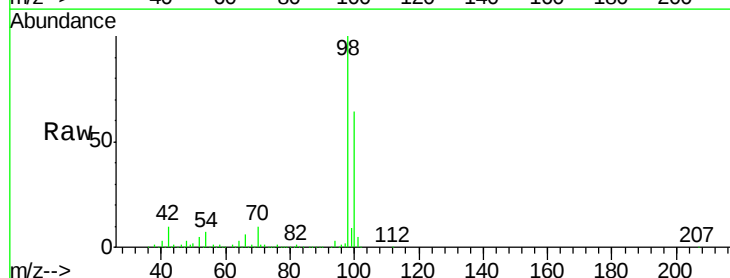
Acq: 15 Feb 2019 19:46

Tgt Ion: 98 Resp: 1362823

Ion Ratio Lower Upper

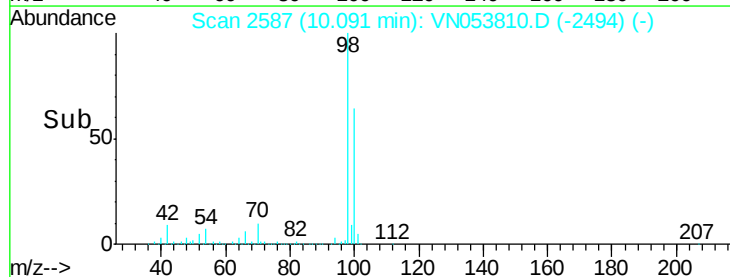
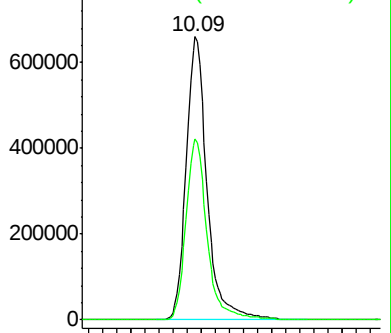
98 100

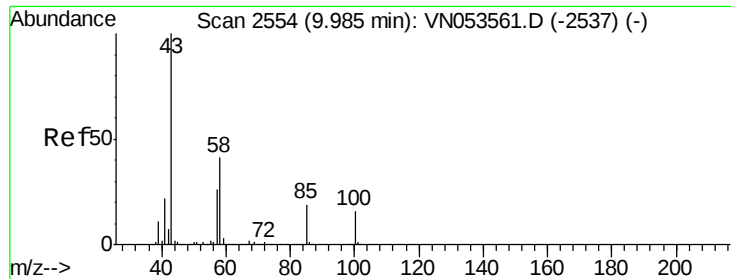
100 64.7 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.742 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

Instrument :

MSVOA_N

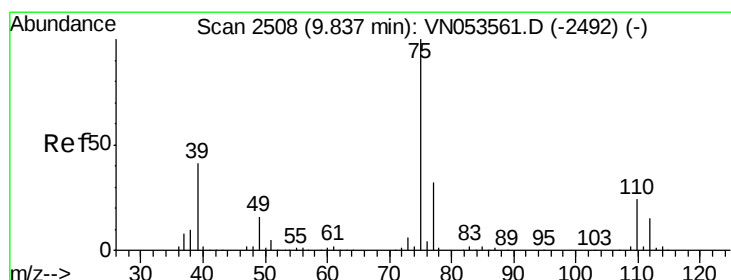
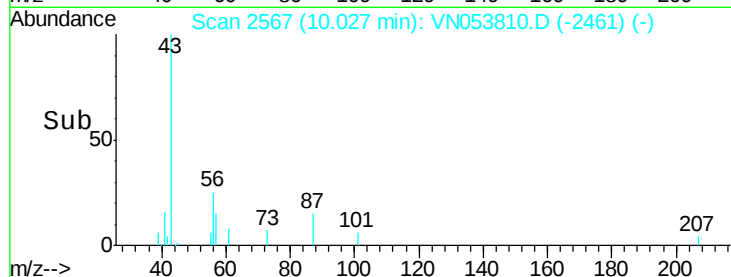
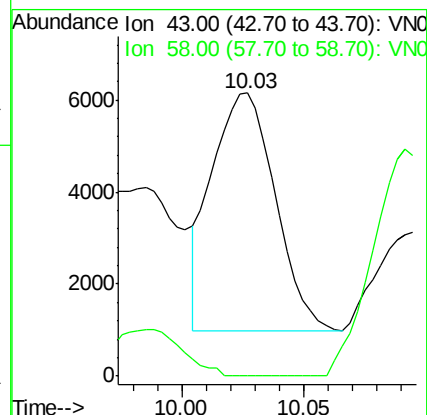
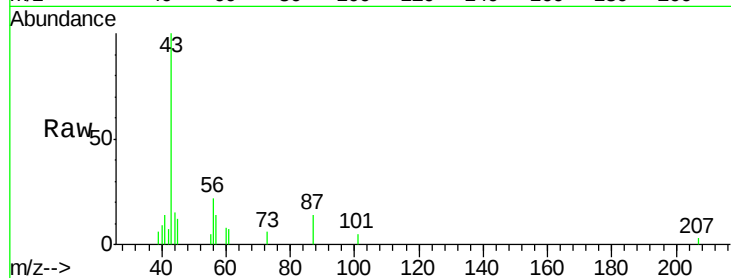
ClientSampleId :

Tot Ion: 43 Resp: 9328

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



#54

cis-1,3-Dichloropropene

Concen: 5.833 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

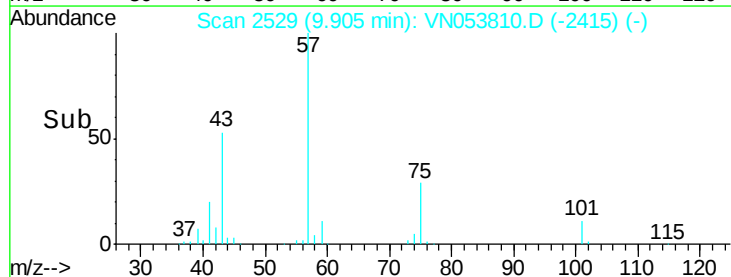
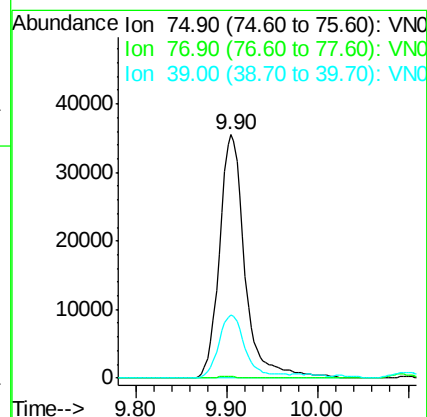
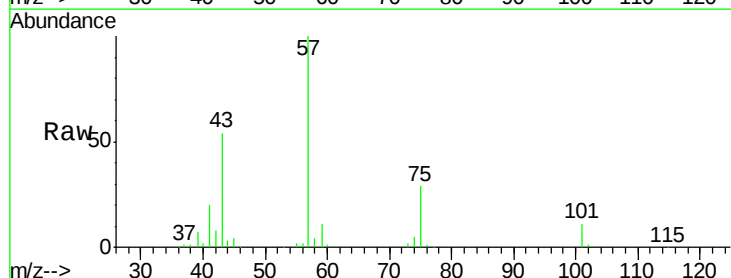
Tgt Ion: 75 Resp: 69113

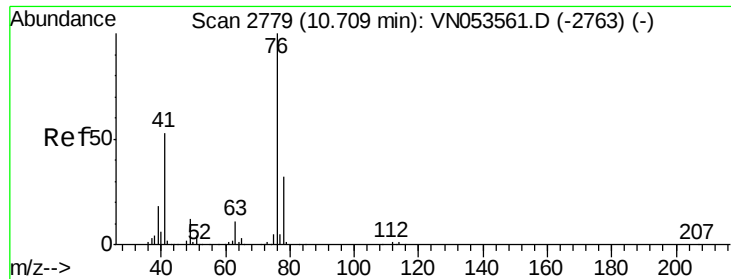
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 25.8 33.4 50.0#





#57

1,3-Dichloropropane

Concen: 1.202 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

Instrument :

MSVOA_N

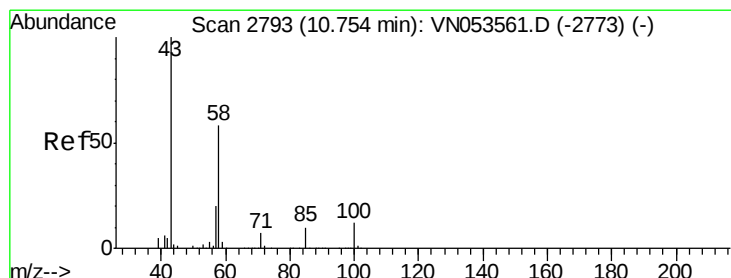
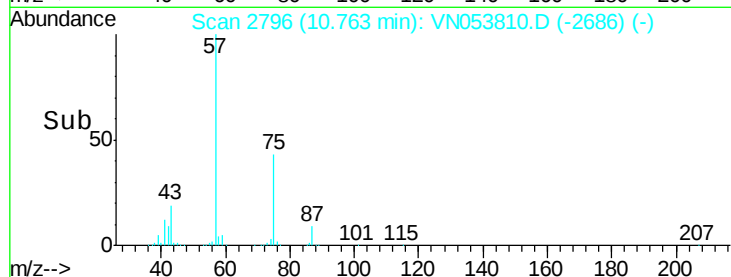
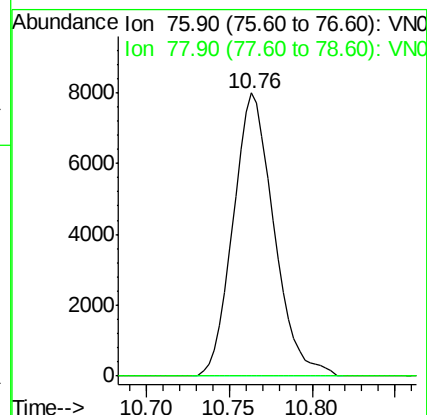
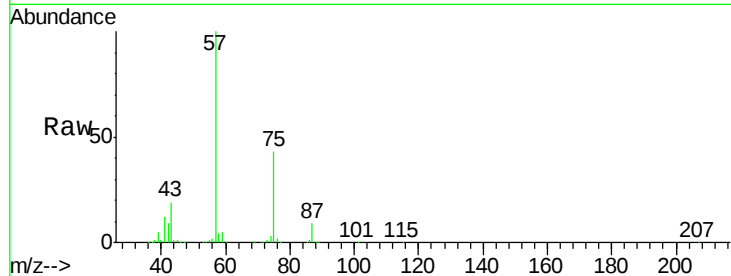
ClientSampleId :

Tot Ion: 76 Resp: 13686

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 47.190 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN053810.D

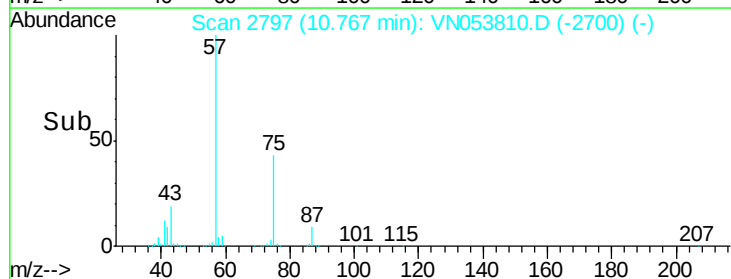
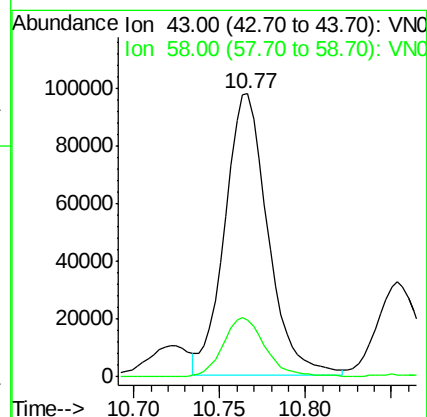
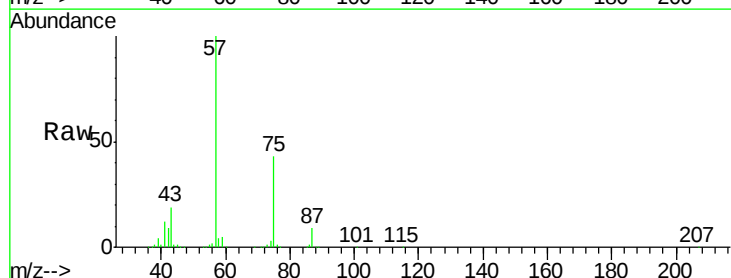
Acq: 15 Feb 2019 19:46

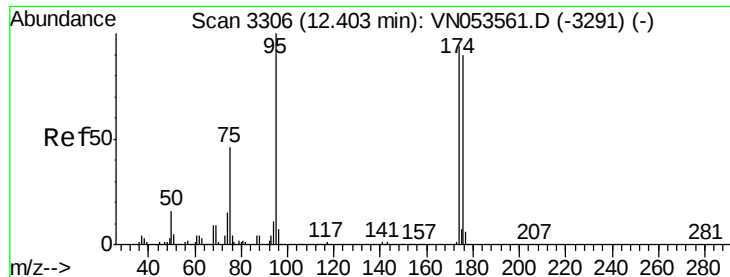
Tgt Ion: 43 Resp: 171497

Ion Ratio Lower Upper

43 100

58 20.7 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: 51.042 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

Instrument :

MSVOA_N

ClientSampleId :

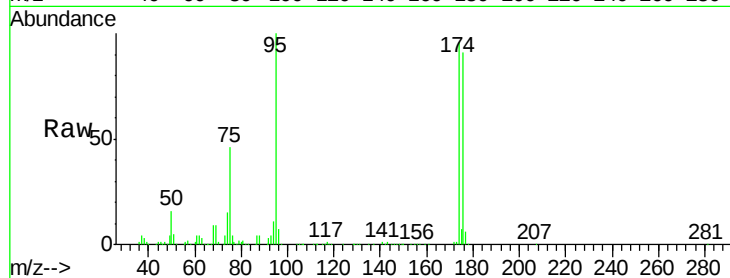
Tot Ion: 95 Resp: 452535

Ion Ratio Lower Upper

95 100

174 94.7 0.0 183.2

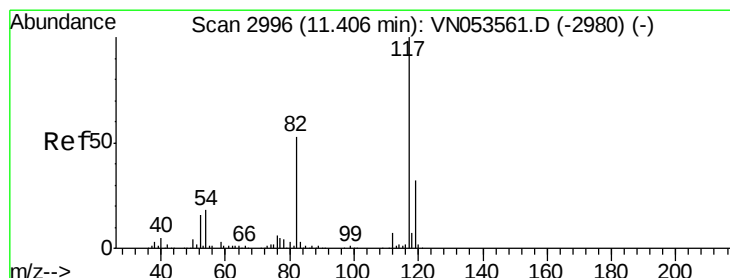
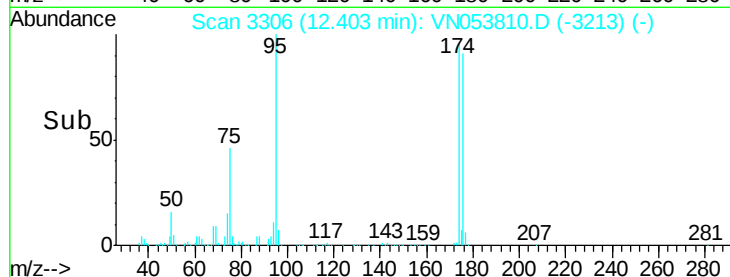
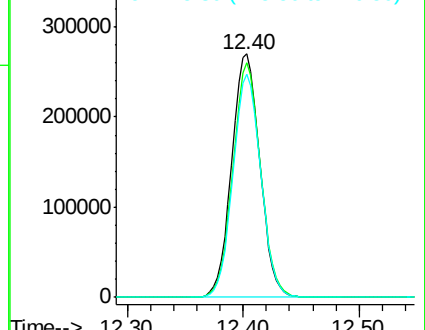
176 90.4 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053810.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN053810.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN053810.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

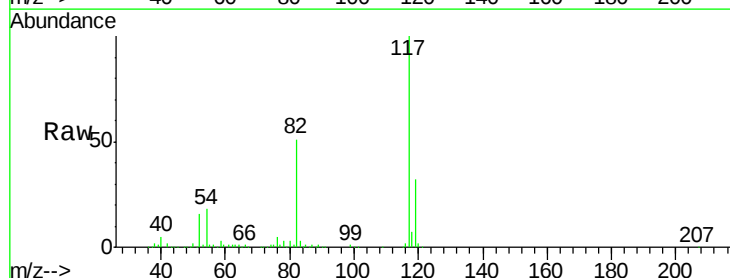
Tgt Ion: 117 Resp: 1057274

Ion Ratio Lower Upper

117 100

82 51.5 42.9 64.3

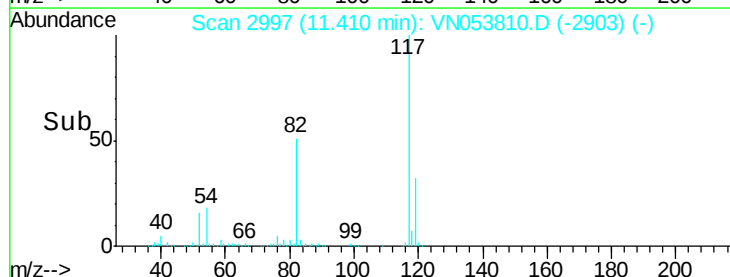
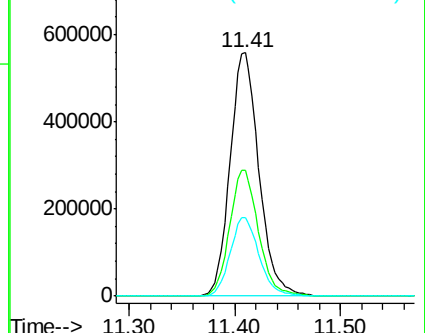
119 32.4 26.0 39.0

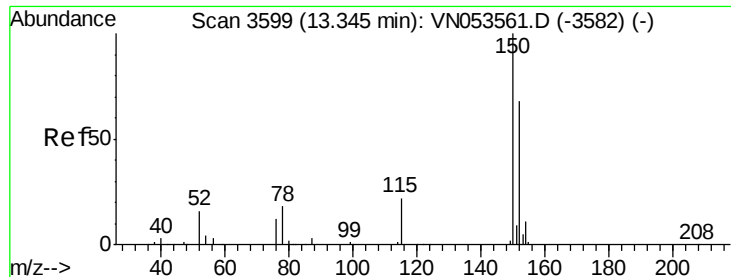


Abundance Ion 116.90 (116.60 to 117.60): VN053810.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN053810.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN053810.D (-2903) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

Instrument :

MSVOA_N

ClientSampleId :

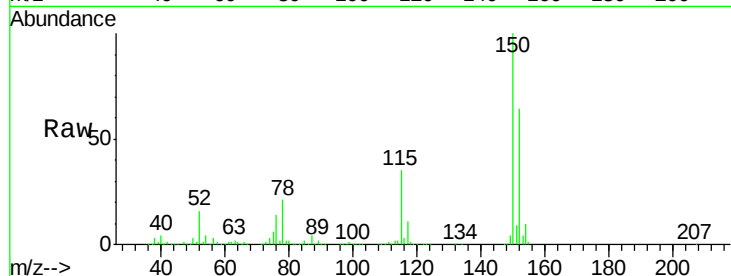
Tot Ion:152 Resp: 418154

Ion Ratio Lower Upper

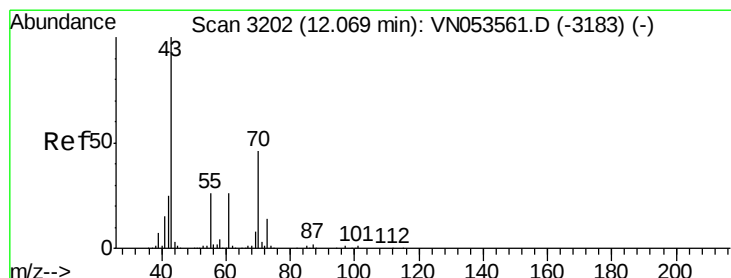
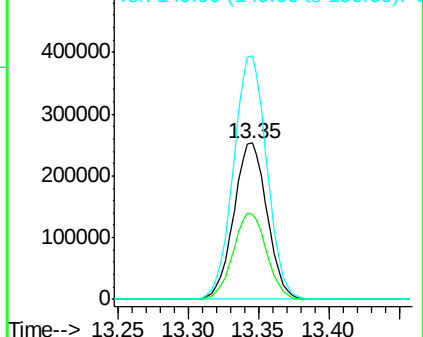
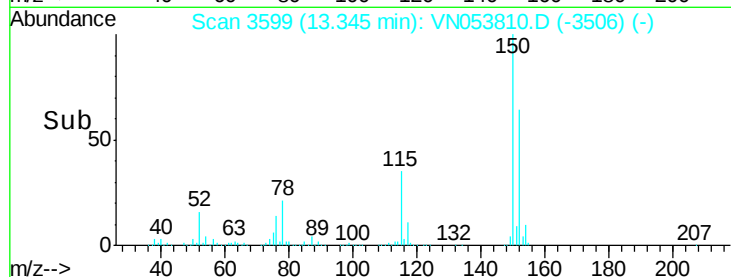
152 100

115 55.1 27.8 83.4

150 156.6 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



#74

N-ethyl acetate

Concen: 2.702 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

Tgt Ion: 43 Resp: 19101

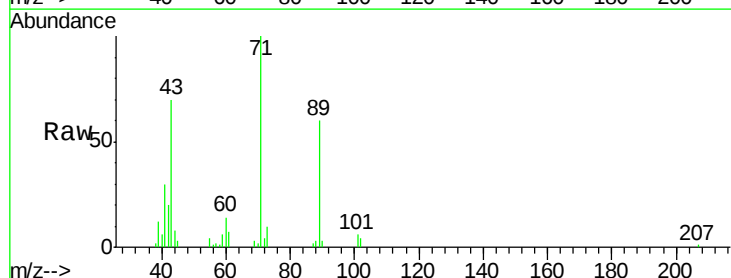
Ion Ratio Lower Upper

43 100

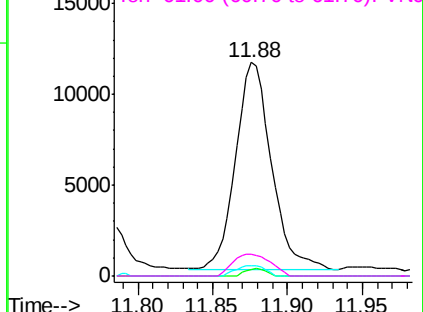
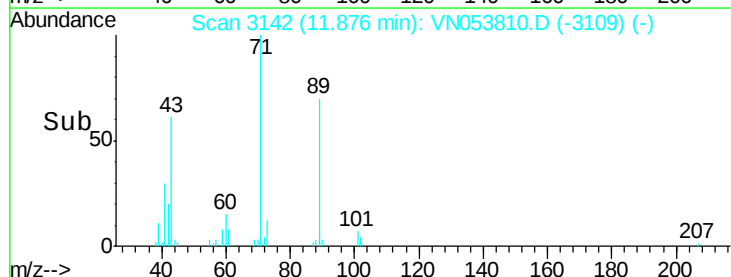
70 2.1 35.4 53.2#

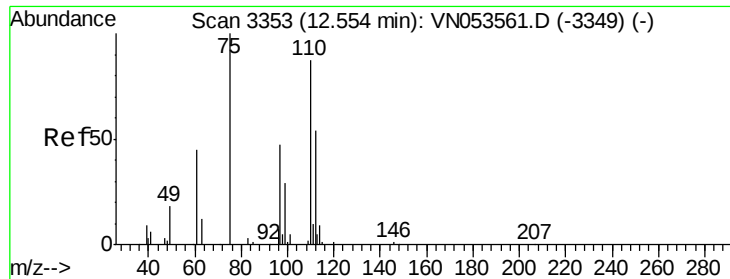
55 4.1 20.9 31.3#

61 10.8 20.5 30.7#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 38.926 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

Instrument :

MSVOA_N

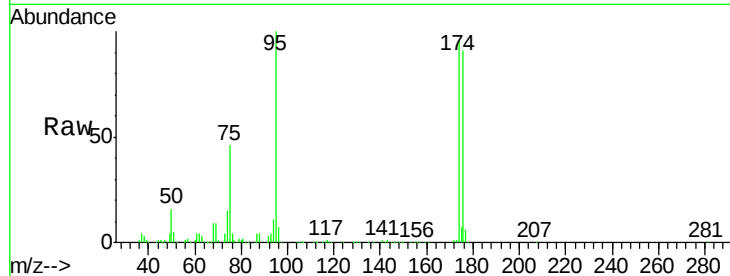
ClientSampled :

Tot Ion: 75 Resp: 209068

Ion Ratio Lower Upper

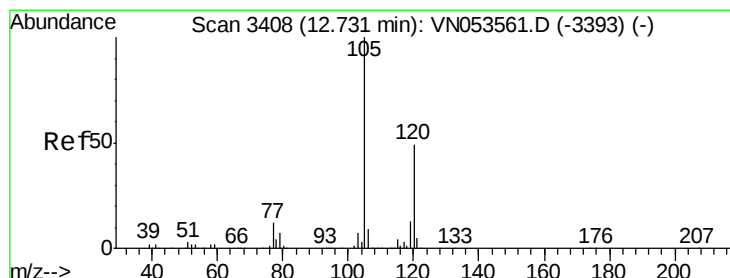
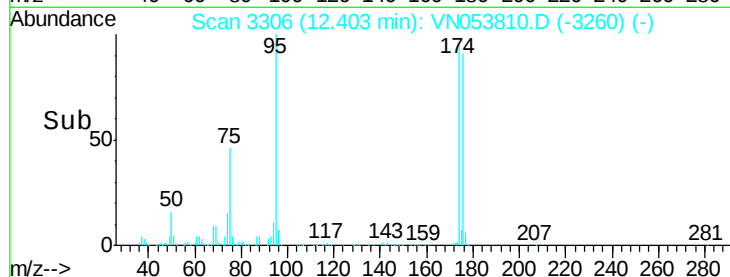
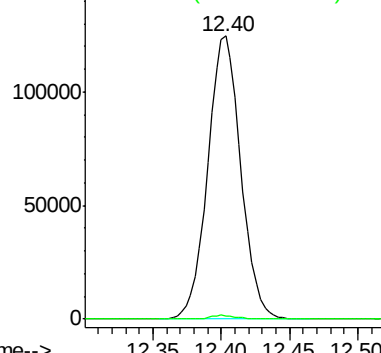
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.308 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053810.D

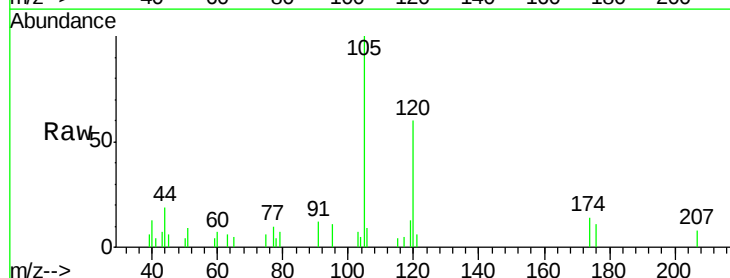
Acq: 15 Feb 2019 19:46

Tgt Ion: 105 Resp: 7515

Ion Ratio Lower Upper

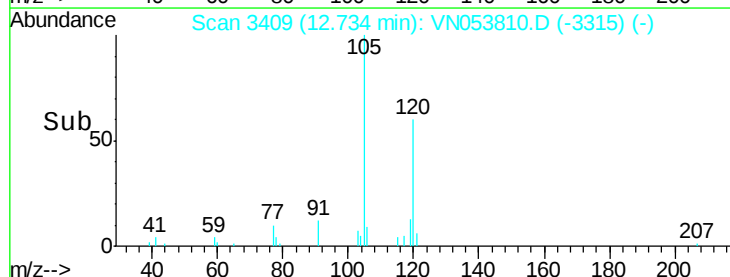
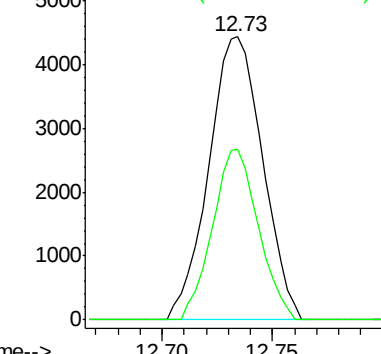
105 100

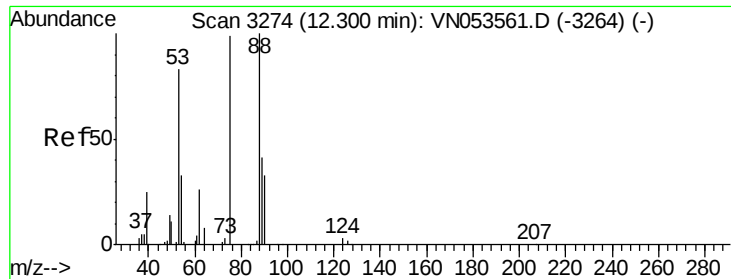
120 51.4 24.9 74.6



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: 109.456 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053810.D

Acq: 15 Feb 2019 19:46

Instrument :

MSVOA_N

ClientSampleId :

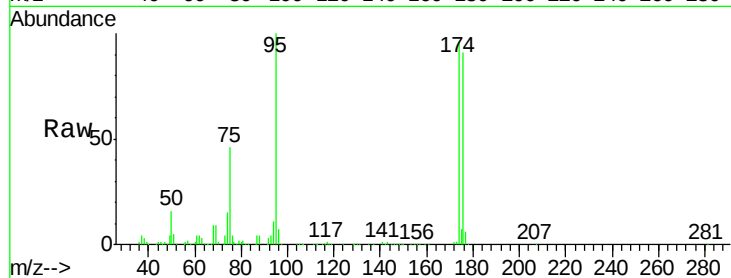
Tot Ion: 75 Resp: 209068

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

