

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021419\
 Data File : VN053782.D
 Acq On : 14 Feb 2019 16:29
 Operator : JC/SP
 Sample : PB117097ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 15 01:04:53 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	724970	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1218719	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1132912	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	442082	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	388758	53.45	ug/l	0.00
Spiked Amount			Recovery	=	106.90%	
35) Dibromofluoromethane	7.59	113	386603	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	
50) Toluene-d8	10.09	98	1481595	51.24	ug/l	0.00
Spiked Amount			Recovery	=	102.48%	
62) 4-Bromofluorobenzene	12.40	95	479539	49.73	ug/l	0.00
Spiked Amount			Recovery	=	99.46%	

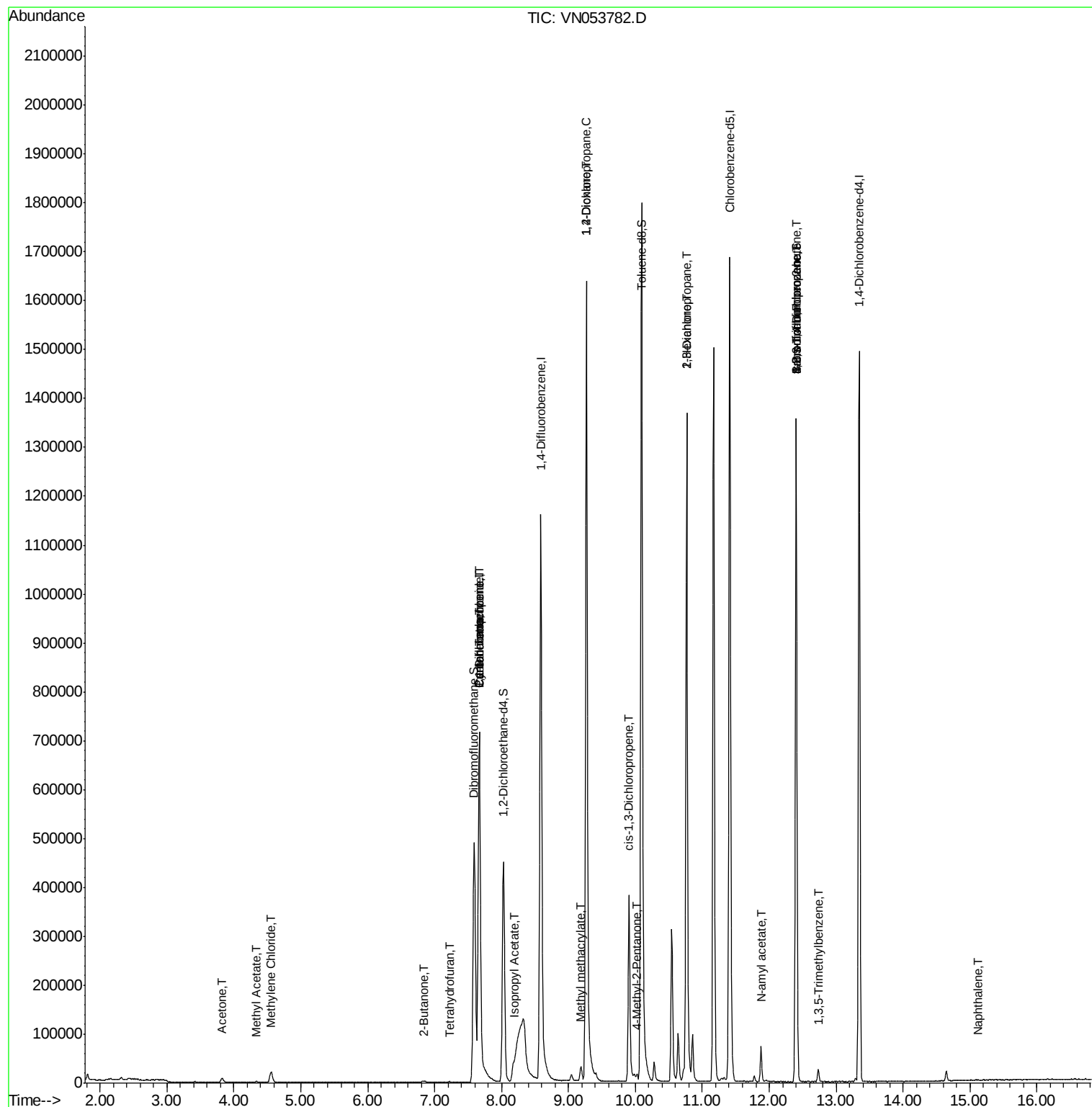
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	15575	8.349	ug/l	99
18) Methyl Acetate	4.34	43	3217	0.582	ug/l #	68
20) Methylene Chloride	4.56	84	17323	2.213	ug/l	98
25) 2-Butanone	6.84	43	3819	1.435	ug/l	94
29) Tetrahydrofuran	7.22	42	1708	1.000	ug/l #	59
31) Cyclohexane	7.66	56	9956	0.642	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	42945	3.909	ug/l #	49
38) Carbon Tetrachloride	7.67	117	58117	5.251	ug/l #	16
43) Isopropyl Acetate	8.18	43	35777	3.019	ug/l #	83
45) 1,2-Dichloropropane	9.27	63	2137	0.247	ug/l #	43
48) Methyl methacrylate	9.18	41	10706	1.893	ug/l #	12
49) 1,4-Dioxane	9.28	88	128	40.599	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	10665	1.832	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	81771	6.345	ug/l #	62
57) 1,3-Dichloropropane	10.77	76	16381	1.323	ug/l #	43
59) 2-Hexanone	10.77	43	201985	51.097	ug/l #	50
71) Bromoform	12.40	173	3001	0.521	ug/l #	1
74) N-amyl acetate	11.88	43	21292	2.849	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	223823	39.417	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	13538	0.525	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	223823	110.839	ug/l #	15
95) Naphthalene	15.13	128	658	1.769	ug/l #	69

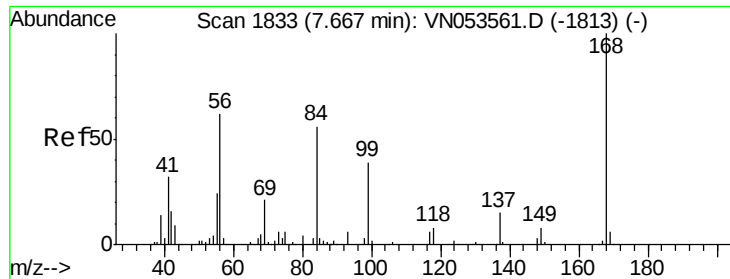
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 14 Feb 2019 16:29
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Instrument :
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Quant Time: Feb 15 01:04:53 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: VN053782.D

Acq: 14 Feb 2019 16:29

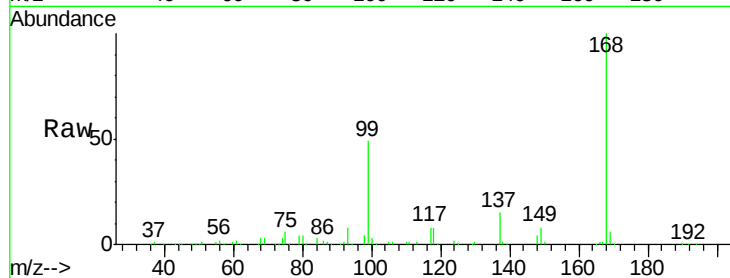
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 724970

Ion Ratio Lower Upper

168 100

99 48.6 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

300000

250000

200000

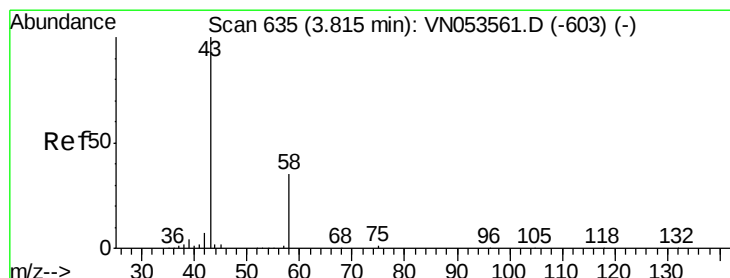
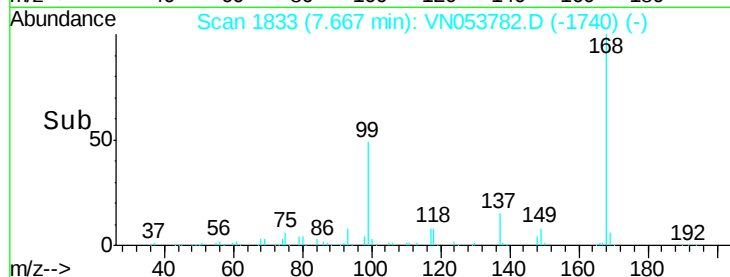
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#16

Acetone

Concen: 8.349 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053782.D

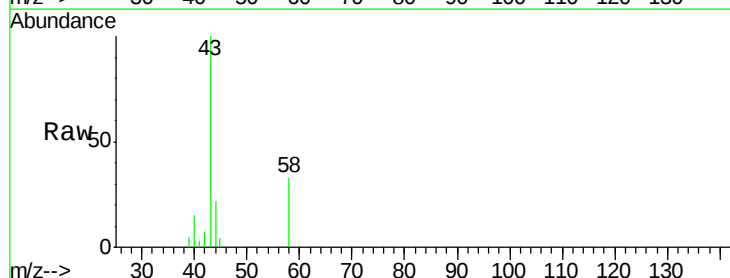
Acq: 14 Feb 2019 16:29

Tgt Ion: 43 Resp: 15575

Ion Ratio Lower Upper

43 100

58 33.4 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

6000

5000

4000

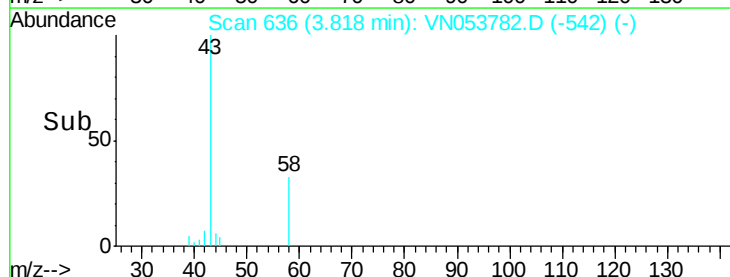
3000

2000

1000

0

Time--> 3.70 3.80 3.90

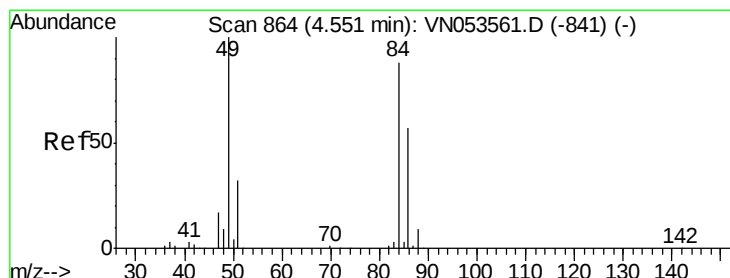
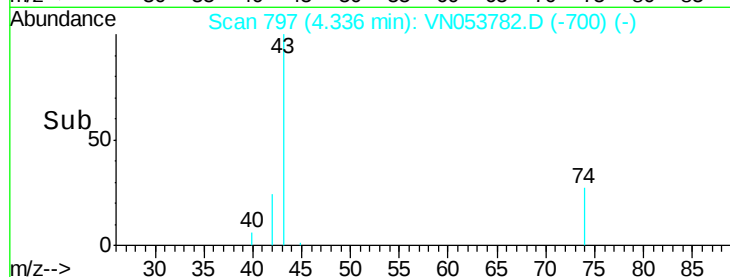
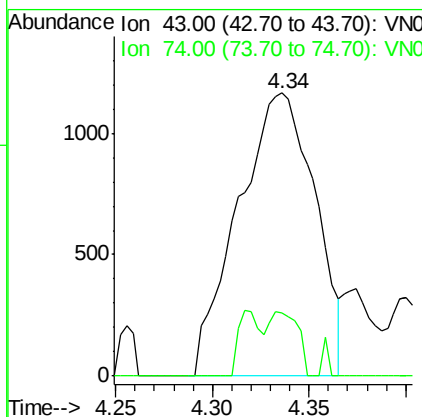
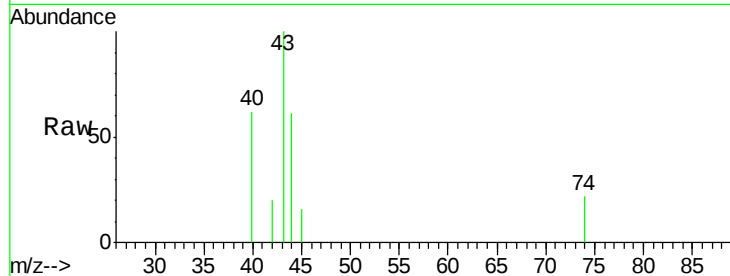




#18
Methyl Acetate
Concen: 0.582 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN053782.D
Acq: 14 Feb 2019 16:29

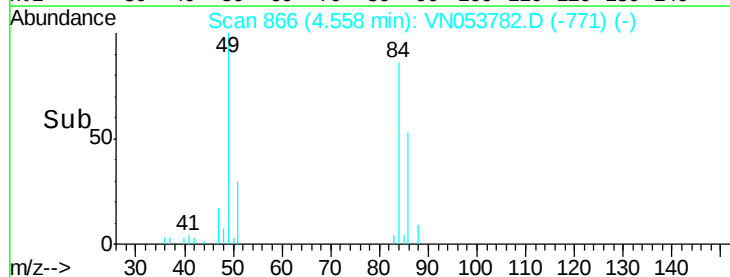
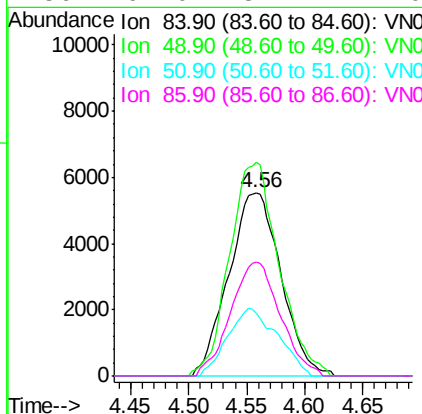
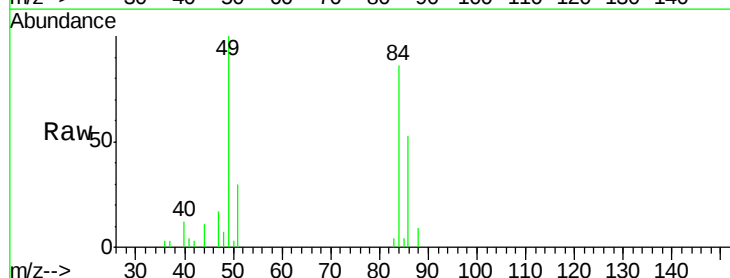
Instrument :
MSVOA_N
ClientSampled :

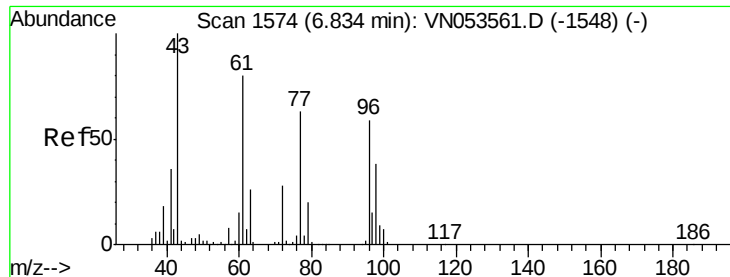
Tot Ion: 43 Resp: 3217
Ion Ratio Lower Upper
43 100
74 8.4 19.4 29.2#



#20
Methylene Chloride
Concen: 2.213 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053782.D
Acq: 14 Feb 2019 16:29

Tgt Ion: 84 Resp: 17323
Ion Ratio Lower Upper
84 100
49 116.5 94.3 141.5
51 34.5 29.4 44.2
86 62.0 51.4 77.0

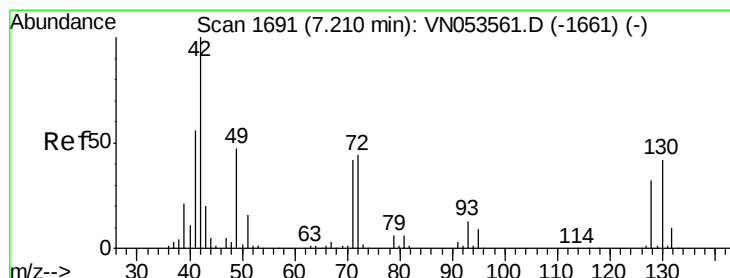
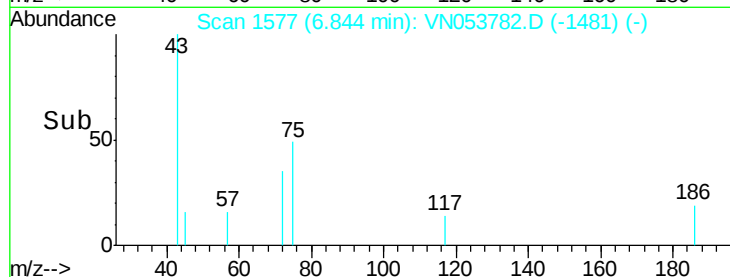
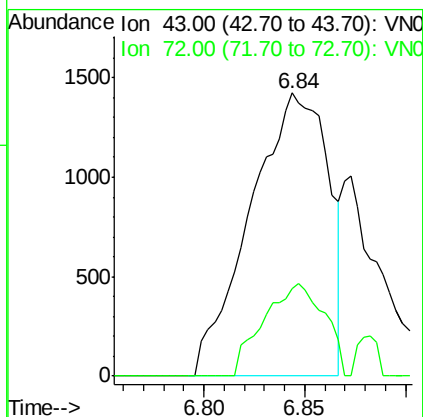
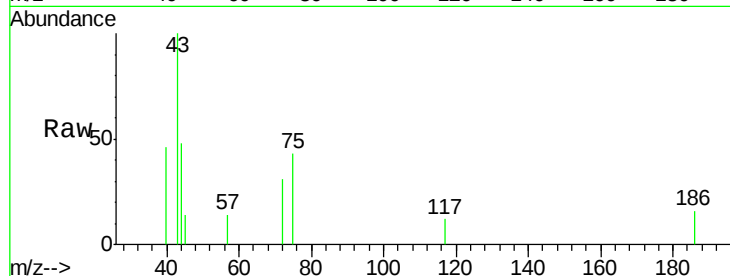




#25
 2-Butanone
 Concen: 1.435 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.01 min
 Lab File: VN053782.D
 Acq: 14 Feb 2019 16:29

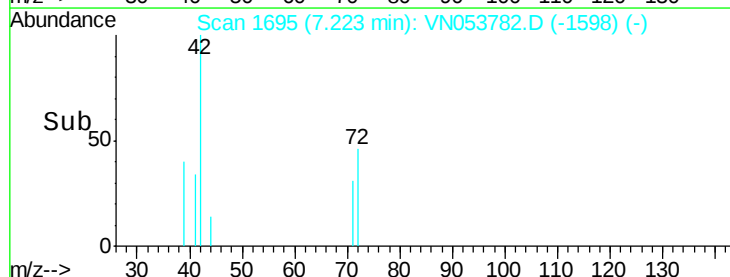
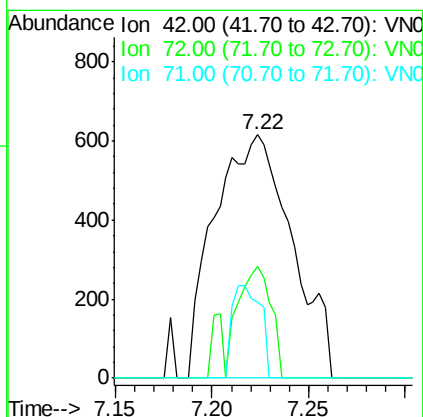
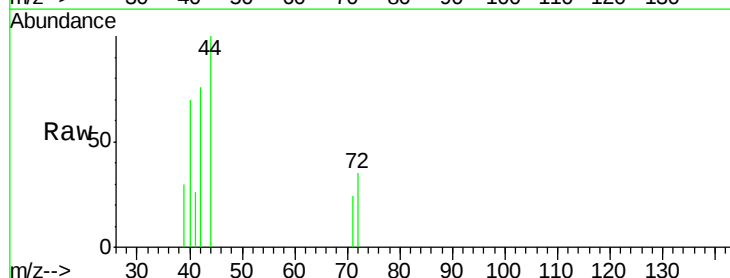
Instrument :
 MSVOA_N
 ClientSampleId :

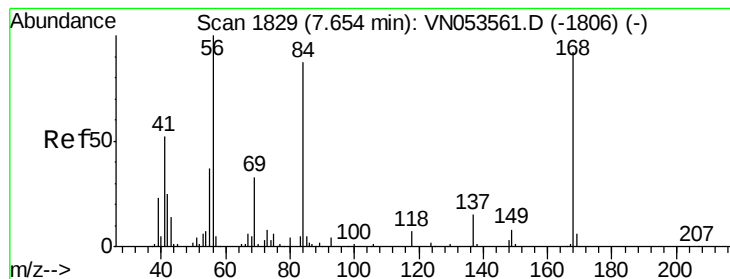
Tot Ion: 43 Resp: 3819
 Ion Ratio Lower Upper
 43 100
 72 30.7 22.0 33.0



#29
 Tetrahydrofuran
 Concen: 1.000 ug/l
 RT: 7.22 min Scan# 1695
 Delta R.T. 0.01 min
 Lab File: VN053782.D
 Acq: 14 Feb 2019 16:29

Tgt Ion: 42 Resp: 1708
 Ion Ratio Lower Upper
 42 100
 72 19.5 35.2 52.8#
 71 13.9 33.0 49.4#





#31

Cvclohexane

Concen: 0.642 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053782.D

Acq: 14 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampled :

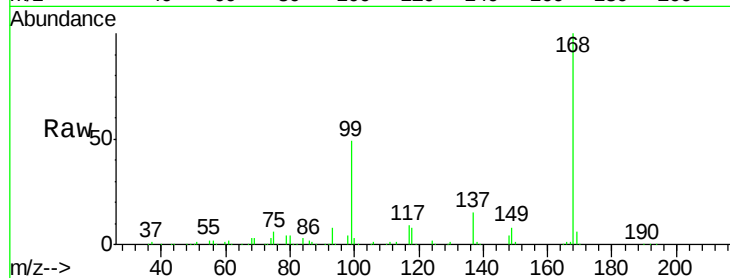
Tot Ion: 56 Resp: 9956

Ion Ratio Lower Upper

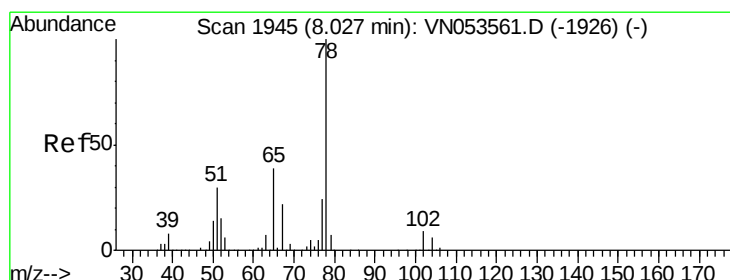
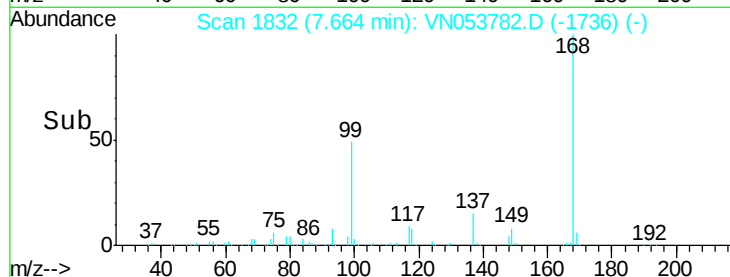
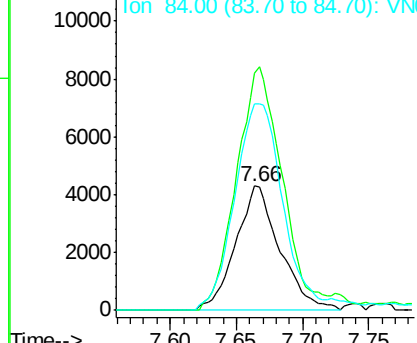
56 100

69 190.7 26.4 39.6#

84 165.8 67.9 101.9#



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO



#33

1,2-Dichloroethane-d4

Concen: 53.453 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053782.D

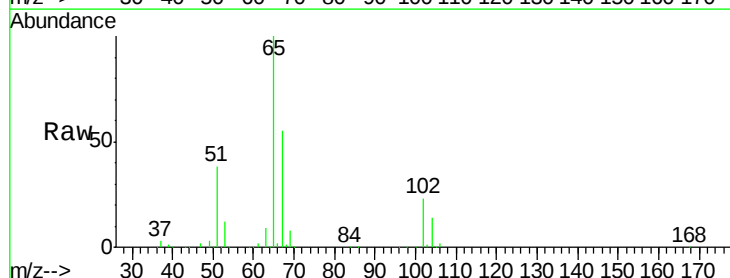
Acq: 14 Feb 2019 16:29

Tgt Ion: 65 Resp: 388758

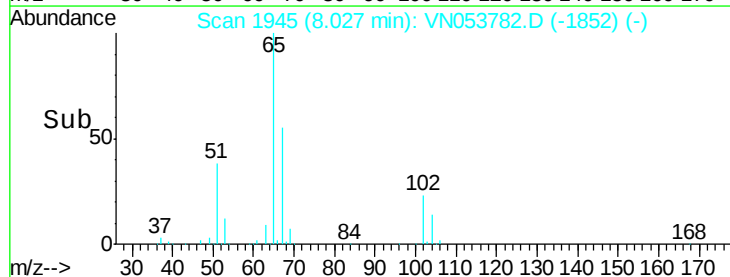
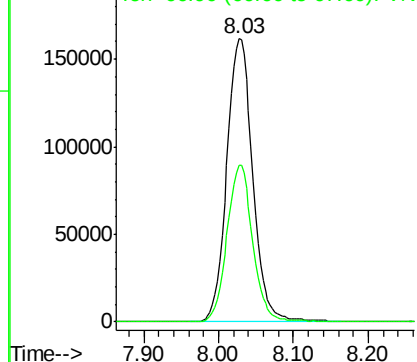
Ion Ratio Lower Upper

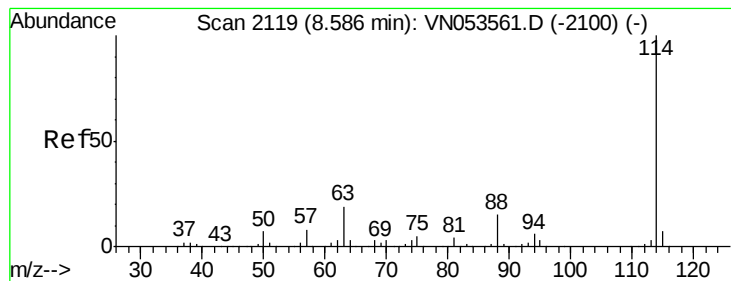
65 100

67 54.6 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053782.D

Acq: 14 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

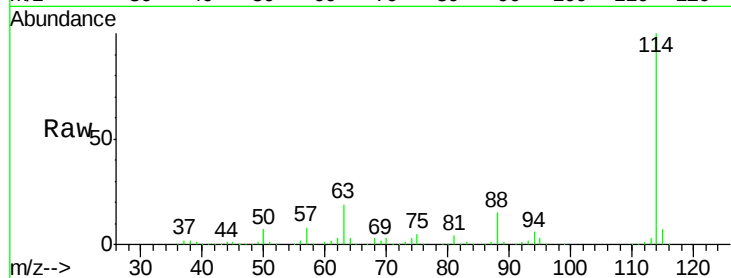
Tot Ion:114 Resp: 1218719

Ion Ratio Lower Upper

114 100

63 19.3 0.0 38.6

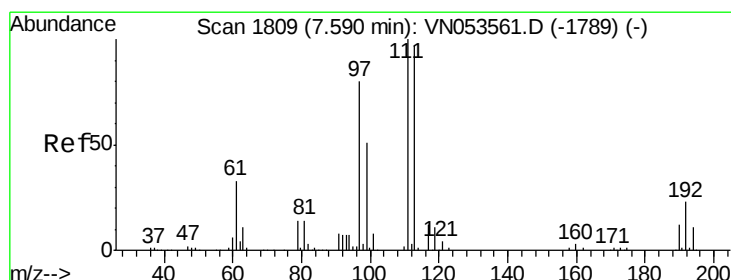
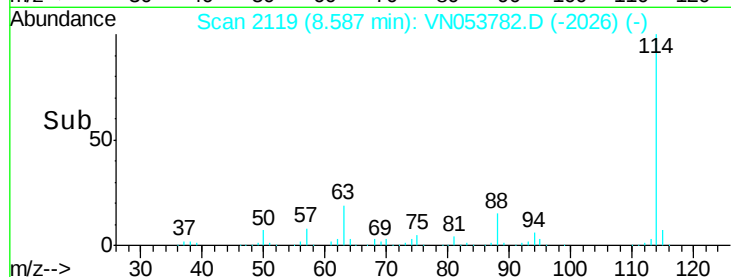
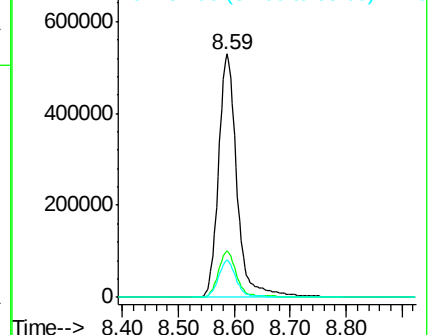
88 15.2 0.0 30.4



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: 50.203 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053782.D

Acq: 14 Feb 2019 16:29

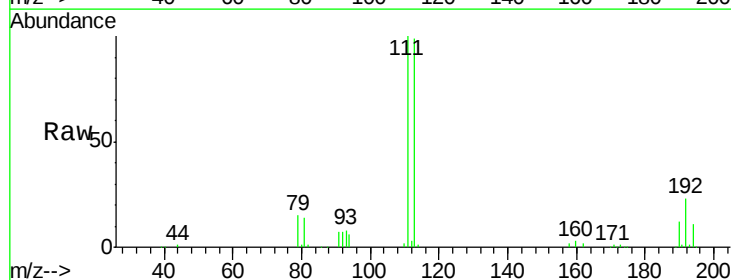
Tgt Ion:113 Resp: 386603

Ion Ratio Lower Upper

113 100

111 101.8 81.1 121.7

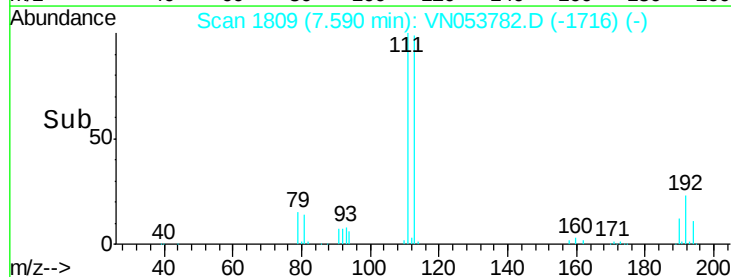
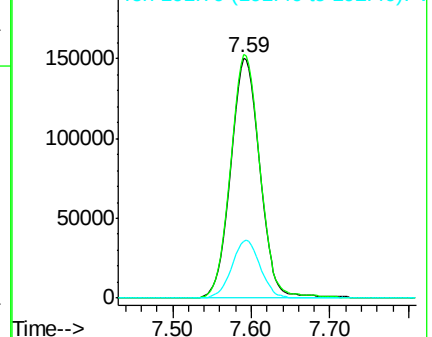
192 23.4 18.2 27.2

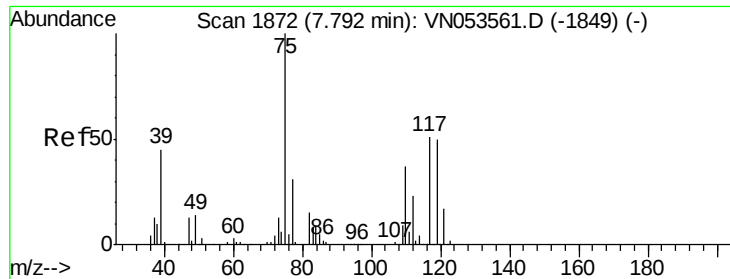


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.909 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053782.D

Acq: 14 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :

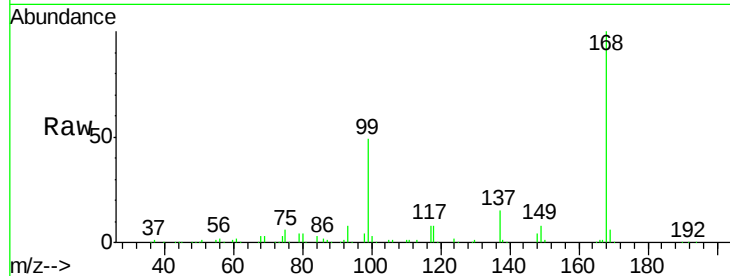
Tot Ion: 75 Resp: 42945

Ion Ratio Lower Upper

75 100

110 8.8 18.1 54.3#

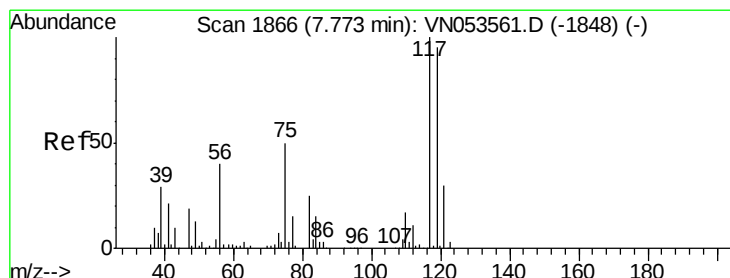
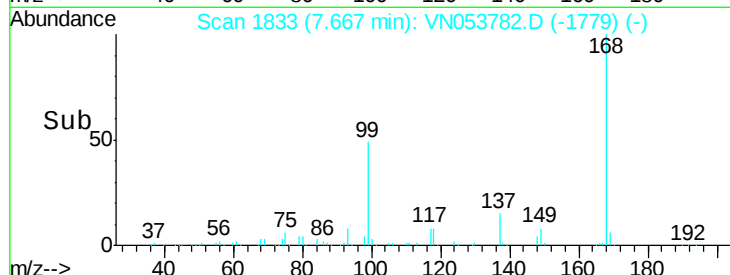
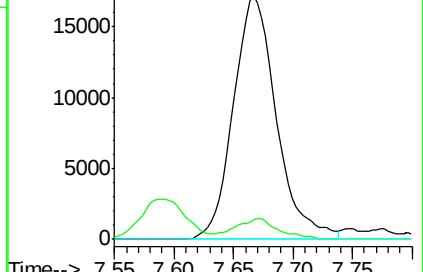
77 0.0 25.1 37.7#



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) (-)



#38

Carbon Tetrachloride

Concen: 5.251 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053782.D

Acq: 14 Feb 2019 16:29

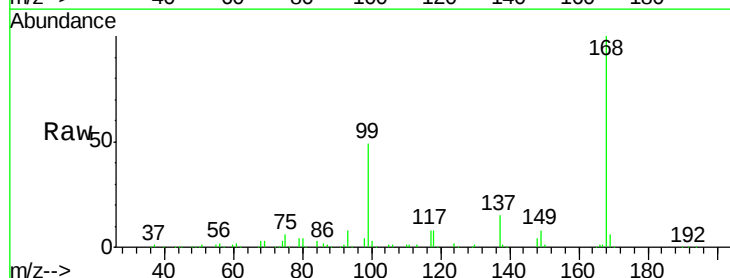
Tgt Ion: 117 Resp: 58117

Ion Ratio Lower Upper

117 100

119 5.3 77.2 115.8#

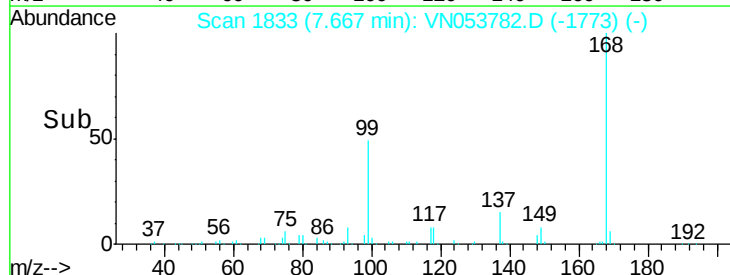
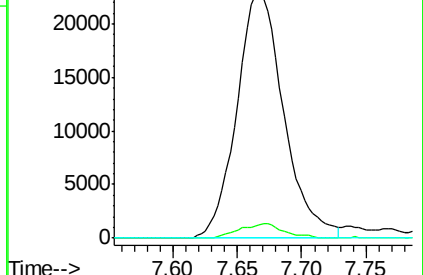
121 0.0 24.6 37.0#

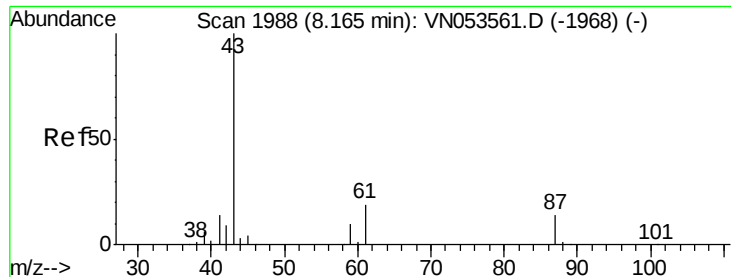


Abundance Ion 116.80 (116.50 to 117.50): VN053561.D (-1848) (-)

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

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





#43

Isopropyl Acetate

Concen: 3.019 ug/l

RT: 8.18 min Scan# 1992

Delta R.T. 0.01 min

Lab File: VN053782.D

Acq: 14 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

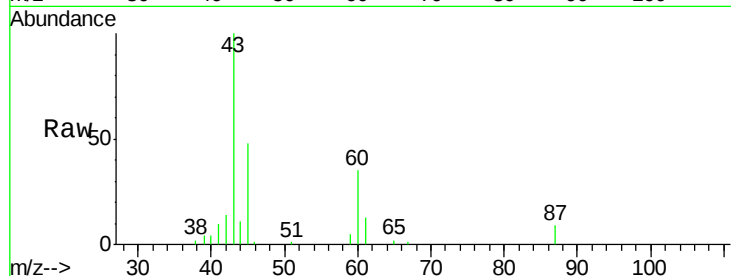
Tot Ion: 43 Resp: 35777

Ion Ratio Lower Upper

43 100

61 18.4 23.9 35.9#

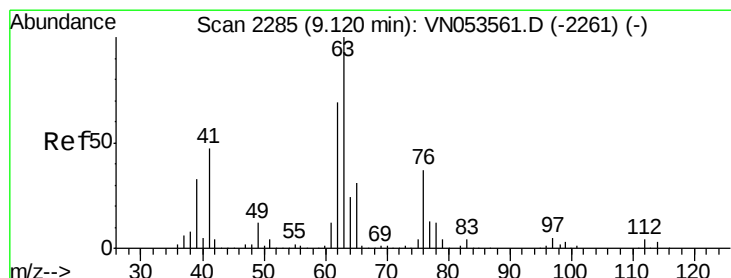
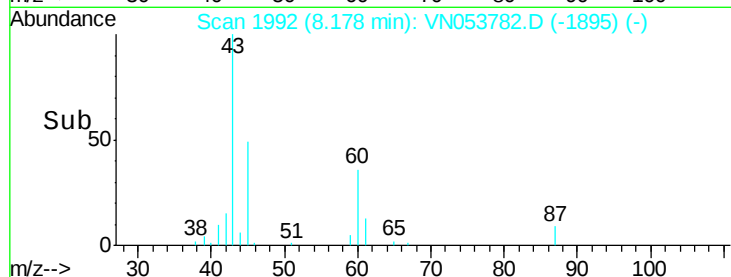
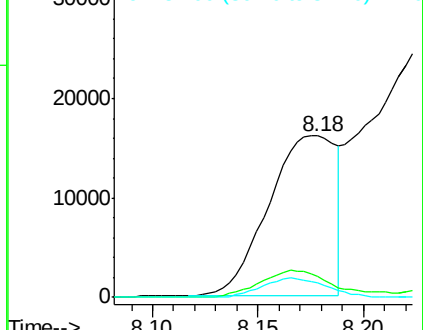
87 11.2 11.0 16.6



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: 0.247 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053782.D

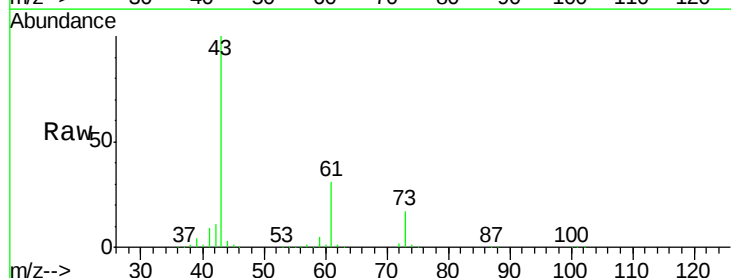
Acq: 14 Feb 2019 16:29

Tgt Ion: 63 Resp: 2137

Ion Ratio Lower Upper

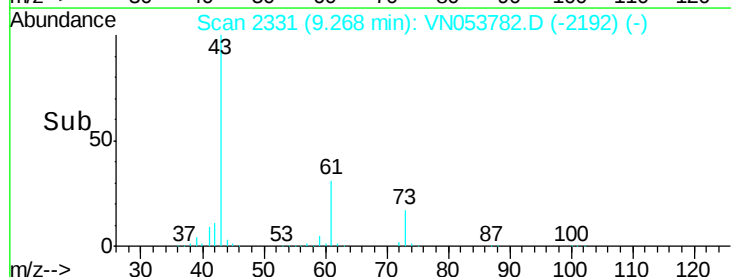
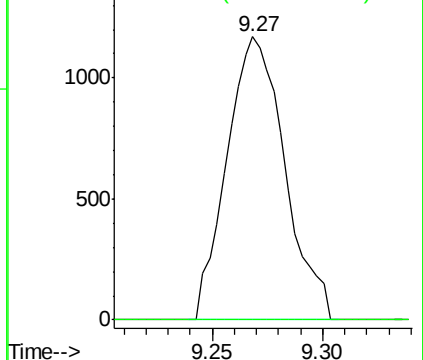
63 100

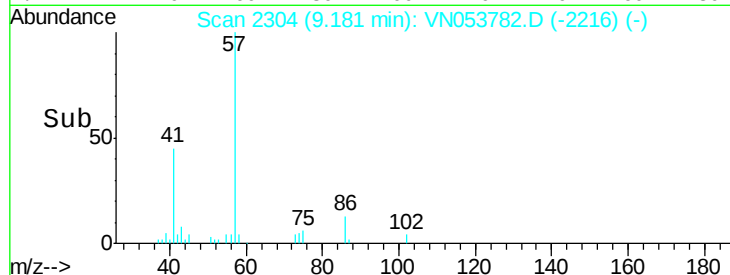
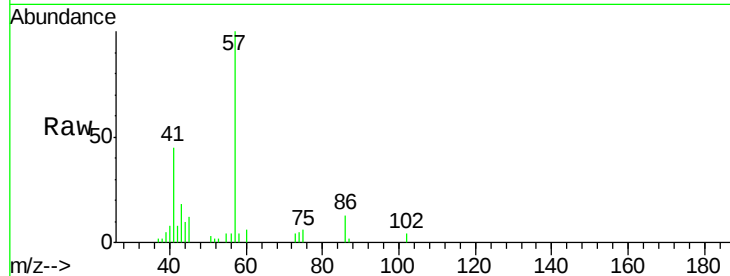
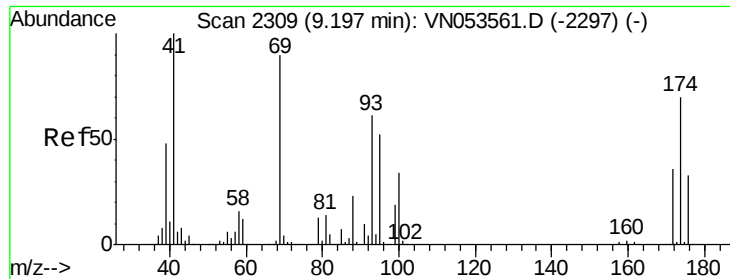
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#48

Methyl methacrylate

Concen: 1.893 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN053782.D

Acq: 14 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampled :

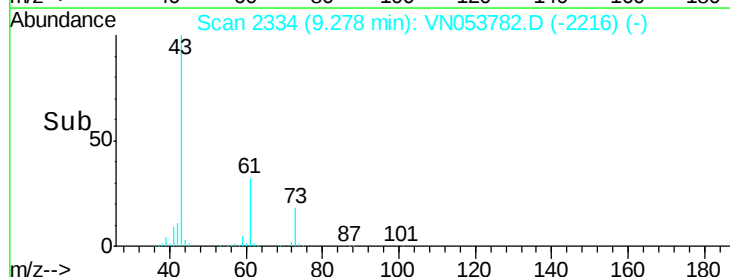
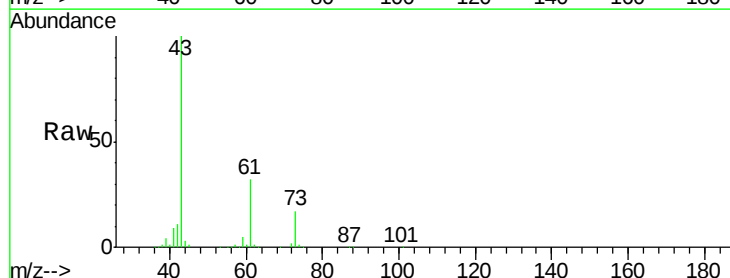
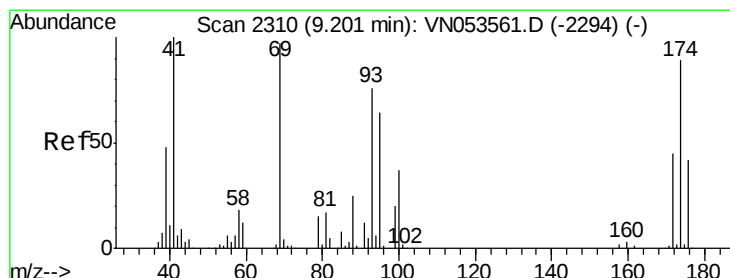
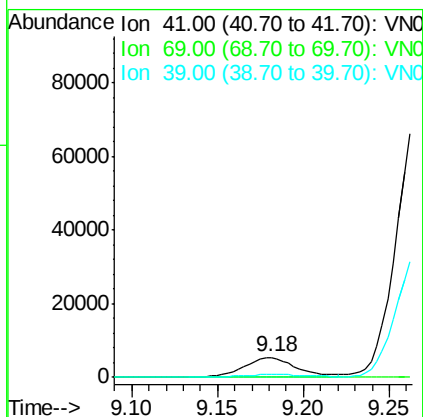
Tot Ion: 41 Resp: 10706

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: 40.599 ug/l

RT: 9.28 min Scan# 2334

Delta R.T. 0.08 min

Lab File: VN053782.D

Acq: 14 Feb 2019 16:29

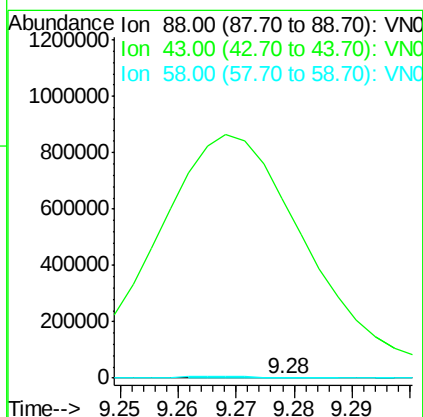
Tgt Ion: 88 Resp: 128

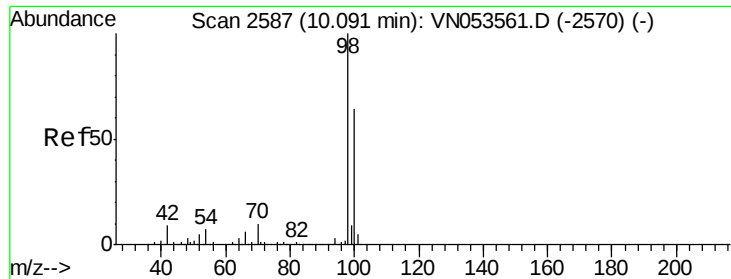
Ion Ratio Lower Upper

88 100

43 1359858.6 27.8 41.6#

58 6628.9 56.5 84.7#





#50

Toluene-d8

Concen: 51.240 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053782.D

Acq: 14 Feb 2019 16:29

Instrument :

MSVOA_N

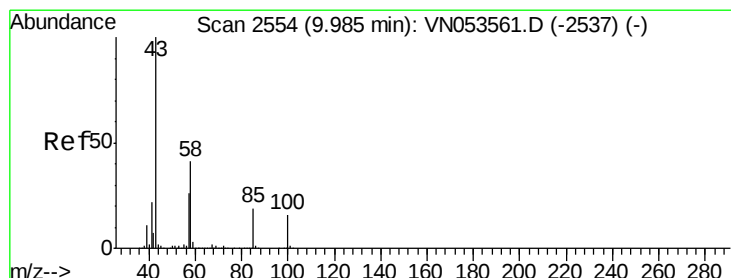
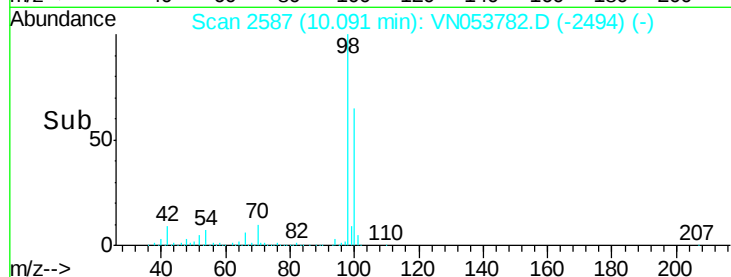
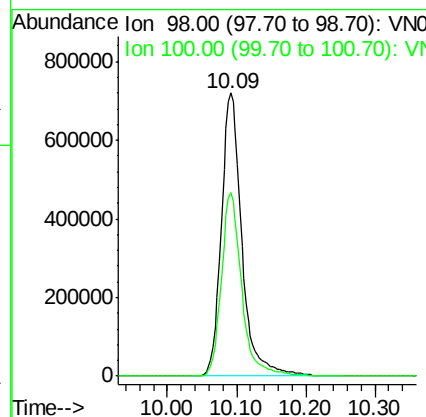
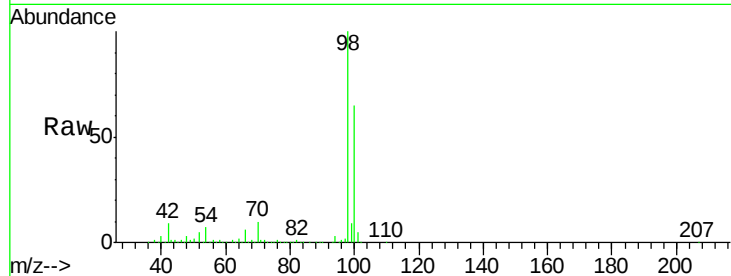
ClientSampled :

Tot Ion: 98 Resp: 1481595

Ion Ratio Lower Upper

98 100

100 64.2 51.4 77.0



#51

4-Methyl-2-Pentanone

Concen: 1.832 ug/l

RT: 10.02 min Scan# 2565

Delta R.T. 0.04 min

Lab File: VN053782.D

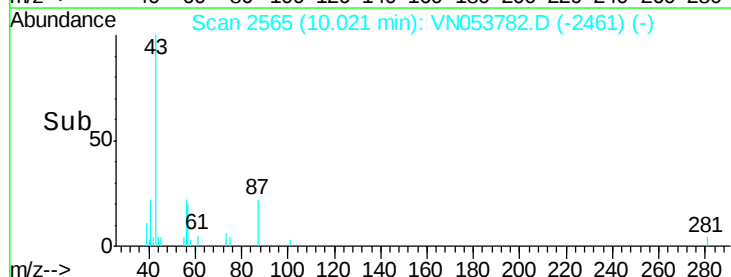
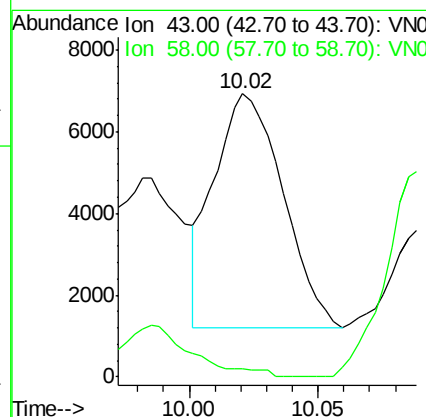
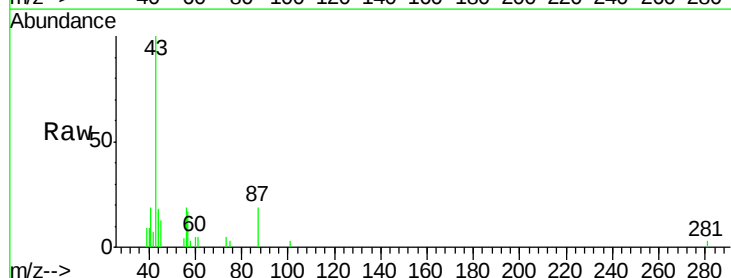
Acq: 14 Feb 2019 16:29

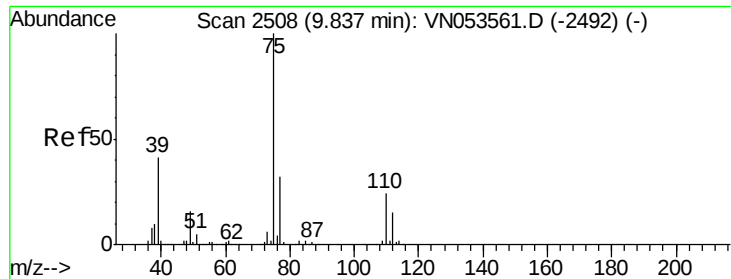
Tgt Ion: 43 Resp: 10665

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



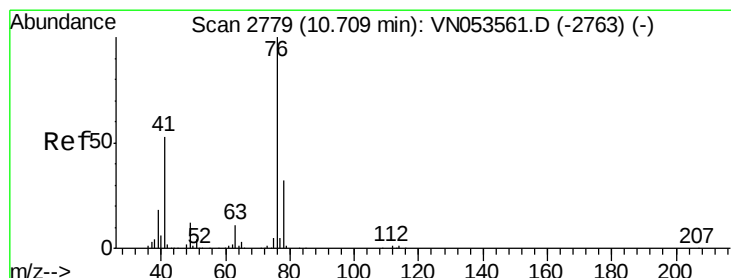
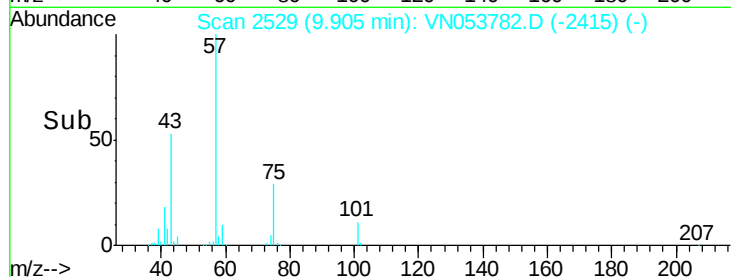
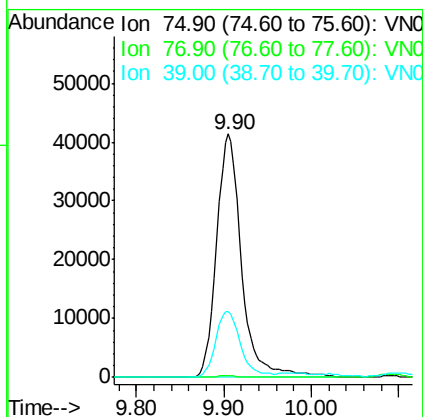
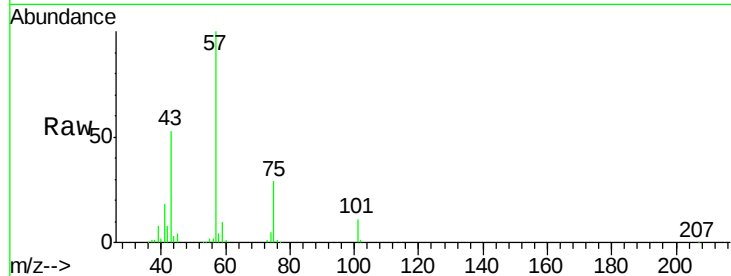


#54

cis-1,3-Dichloropropene
 Concen: 6.345 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053782.D
 Acq: 14 Feb 2019 16:29

Instrument :
 MSVOA_N
 ClientSampled :

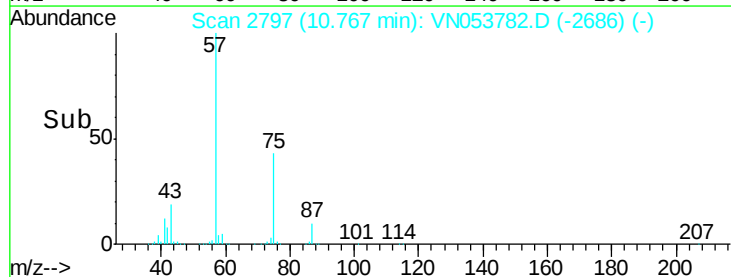
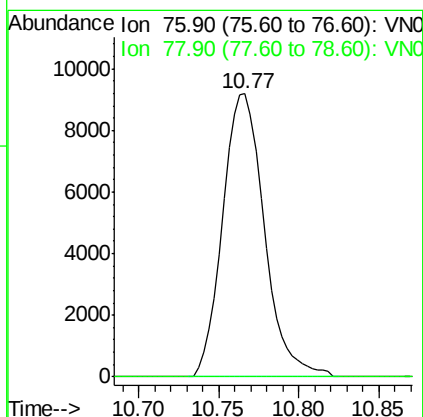
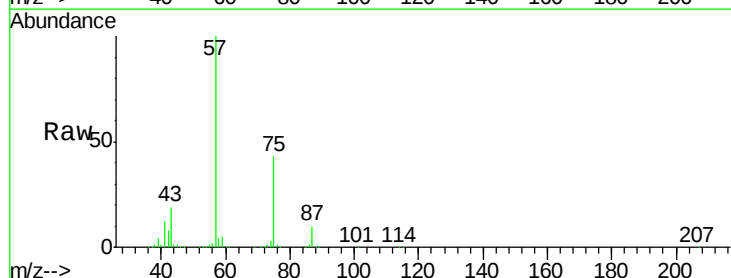
Tot Ion: 75 Resp: 81771
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.8 38.6#
 39 26.9 33.4 50.0#

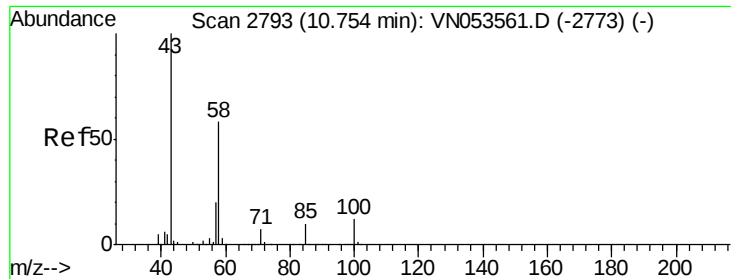


#57

1,3-Dichloropropane
 Concen: 1.323 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN053782.D
 Acq: 14 Feb 2019 16:29

Tgt Ion: 76 Resp: 16381
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

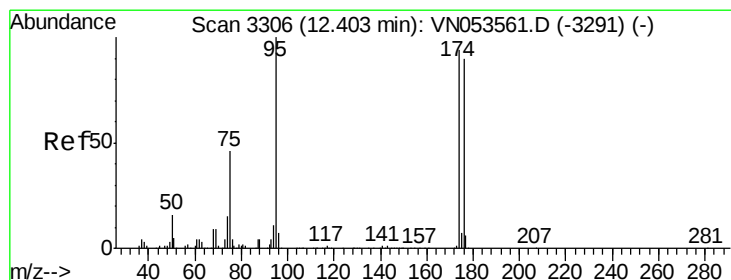
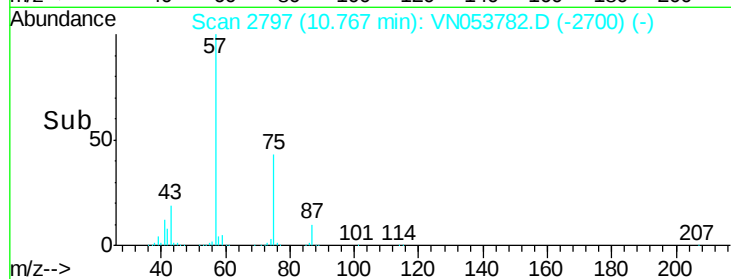
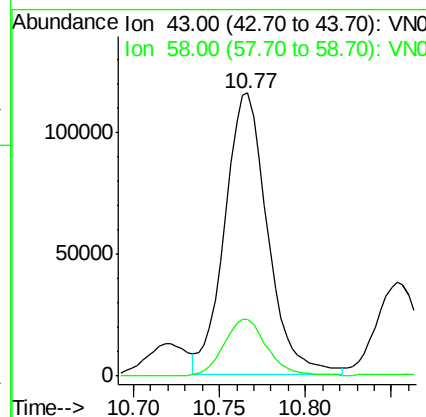
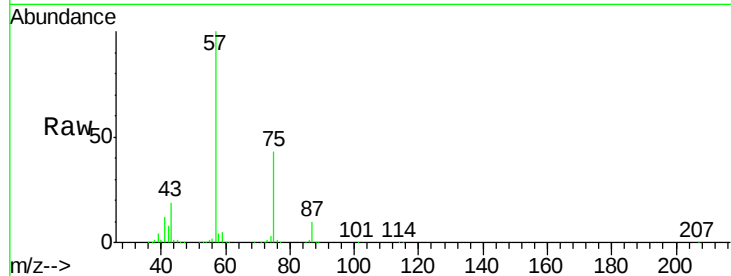




#59
2-Hexanone
Concen: 51.097 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053782.D
Acq: 14 Feb 2019 16:29

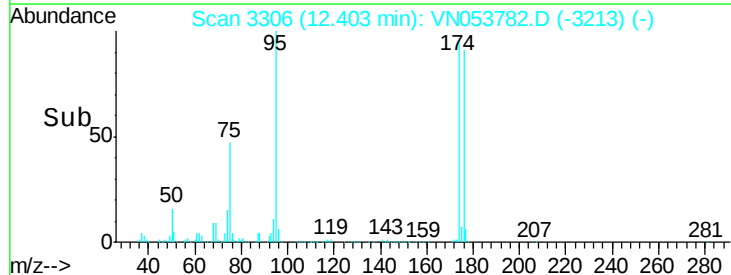
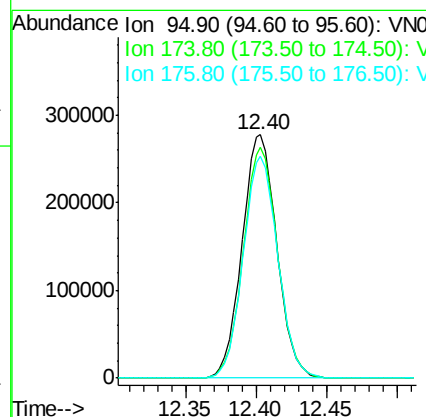
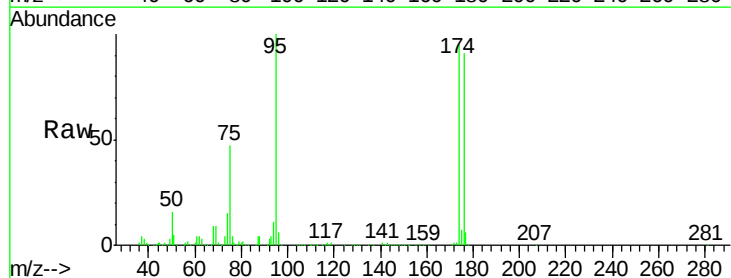
Instrument :
MSVOA_N
ClientSampled :

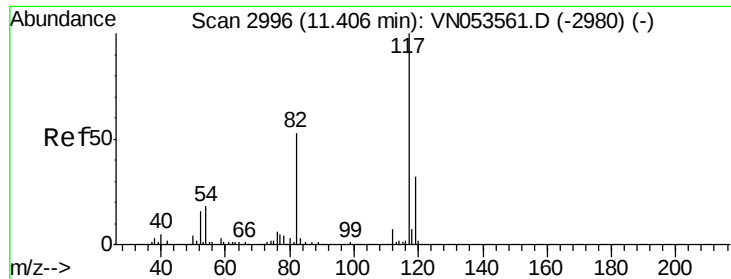
Tot Ion: 43 Resp: 201985
Ion Ratio Lower Upper
43 100
58 20.6 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: 49.726 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053782.D
Acq: 14 Feb 2019 16:29

Tgt Ion: 95 Resp: 479539
Ion Ratio Lower Upper
95 100
174 93.6 0.0 183.2
176 90.9 0.0 177.4

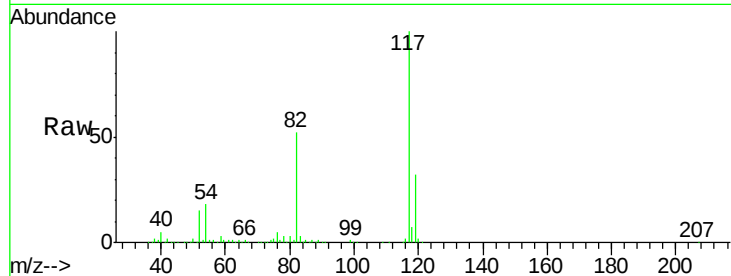




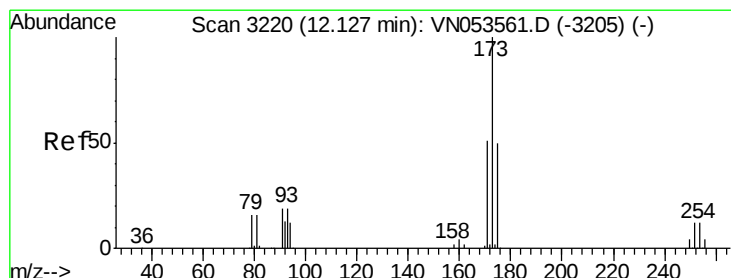
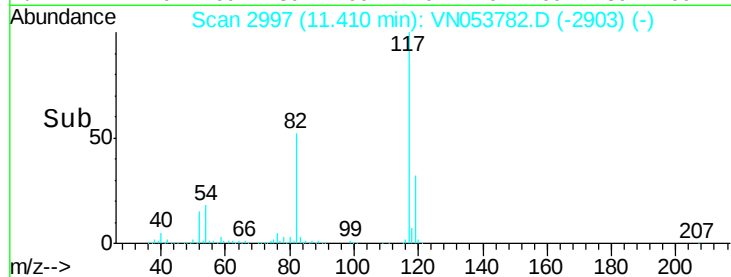
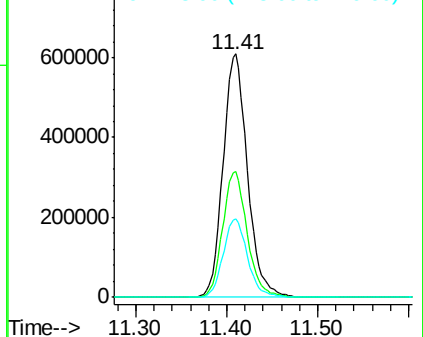
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053782.D
Acq: 14 Feb 2019 16:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 1132912
Ion Ratio Lower Upper
117 100
82 51.8 42.9 64.3
119 32.2 26.0 39.0

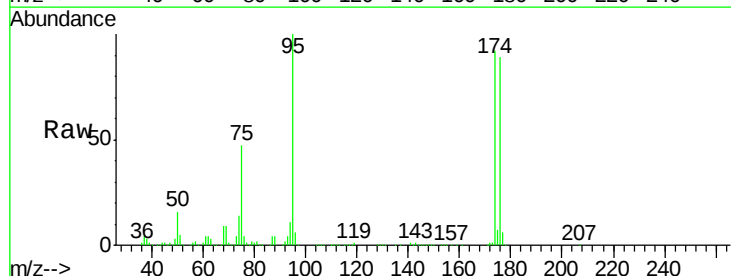


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

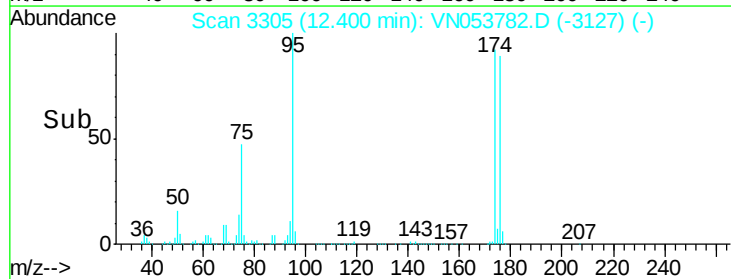
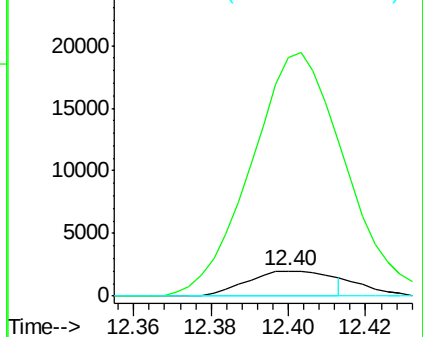


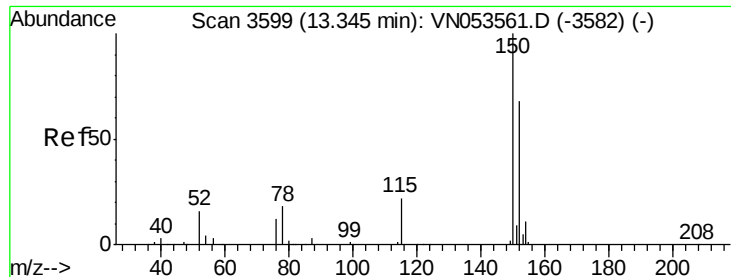
#71
Bromoform
Concen: 0.521 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053782.D
Acq: 14 Feb 2019 16:29

Tgt Ion:173 Resp: 3001
Ion Ratio Lower Upper
173 100
175 922.9 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: VN053782.D

Acq: 14 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampled :

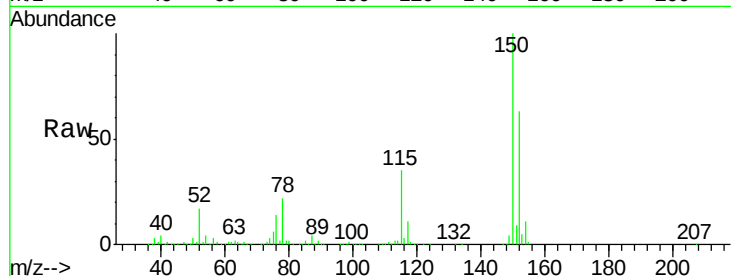
Tot Ion:152 Resp: 442082

Ion Ratio Lower Upper

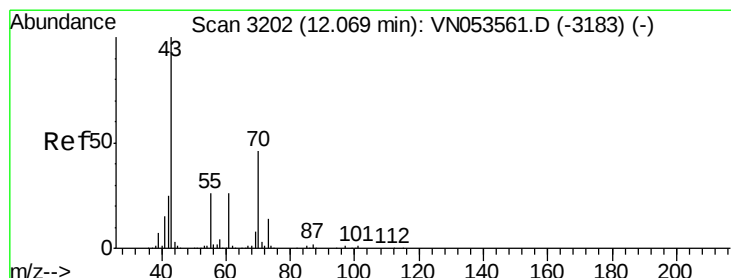
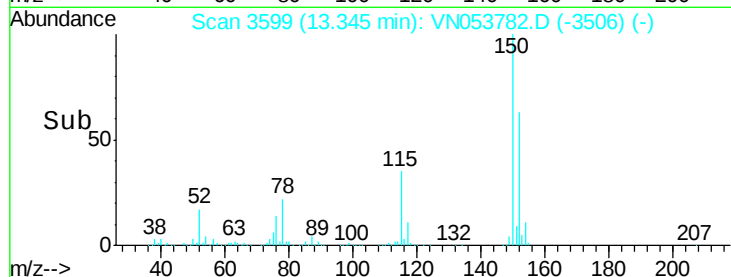
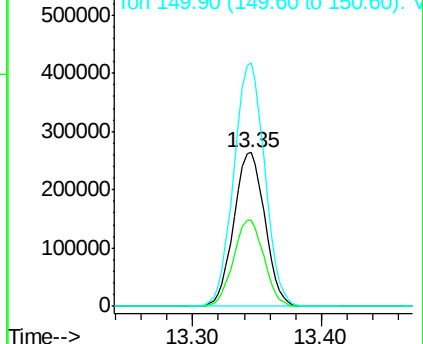
152 100

115 55.3 27.8 83.4

150 157.7 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: 2.849 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053782.D

Acq: 14 Feb 2019 16:29

Tgt Ion: 43 Resp: 21292

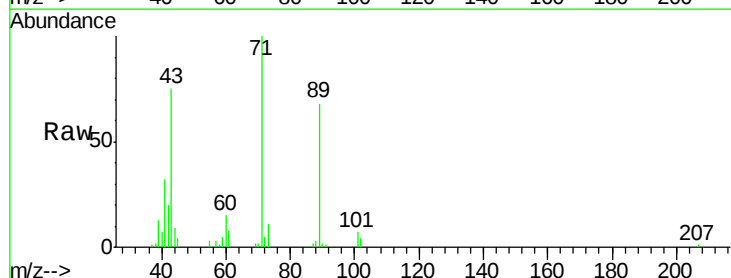
Ion Ratio Lower Upper

43 100

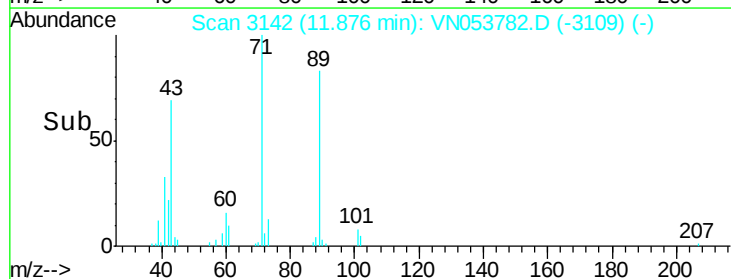
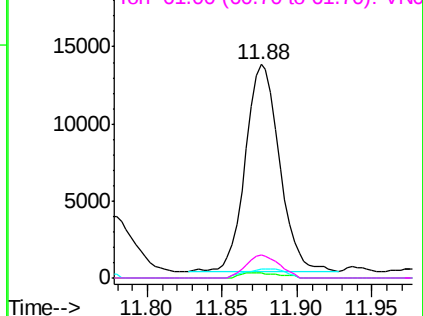
70 2.9 35.4 53.2#

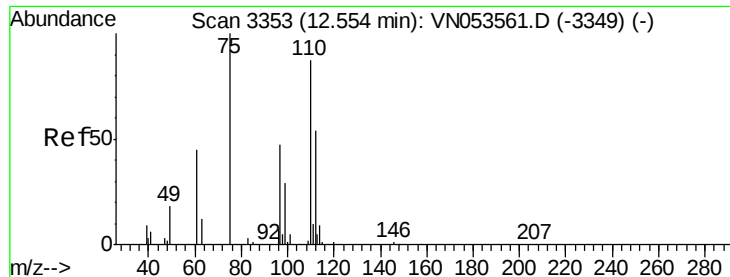
55 5.1 20.9 31.3#

61 10.9 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: 39.417 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053782.D

Acq: 14 Feb 2019 16:29

Instrument :

MSVOA_N

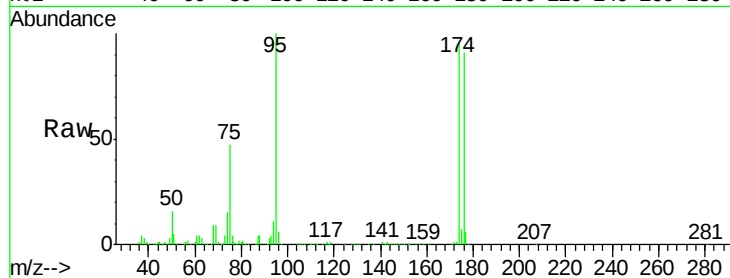
ClientSampleId :

Tot Ion: 75 Resp: 223823

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053782.D (-3306) (-)

Ion 77.00 (76.70 to 77.70): VN053782.D (-3306) (-)

12.40

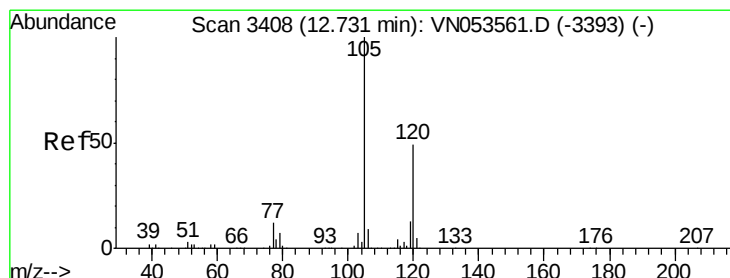
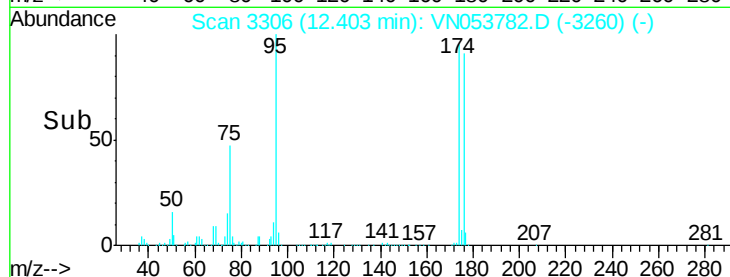
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.525 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053782.D

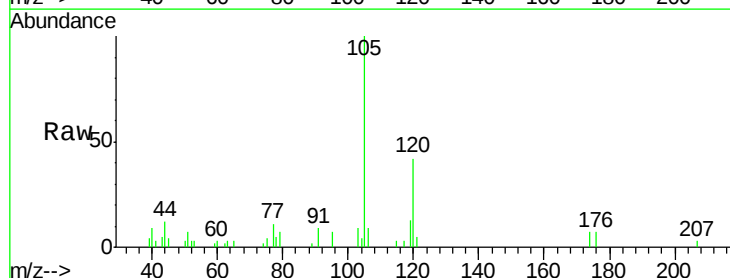
Acq: 14 Feb 2019 16:29

Tgt Ion: 105 Resp: 13538

Ion Ratio Lower Upper

105 100

120 46.9 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053782.D (-3315) (-)

Ion 120.00 (119.70 to 120.70): VN053782.D (-3315) (-)

12.73

10000

8000

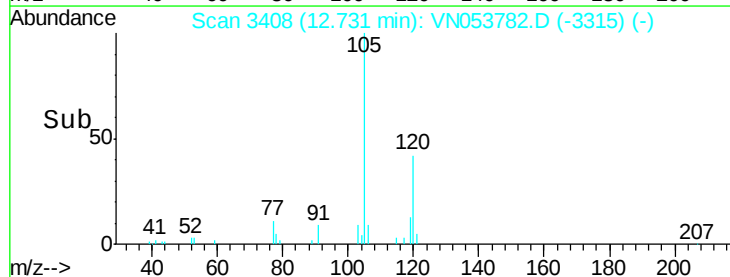
6000

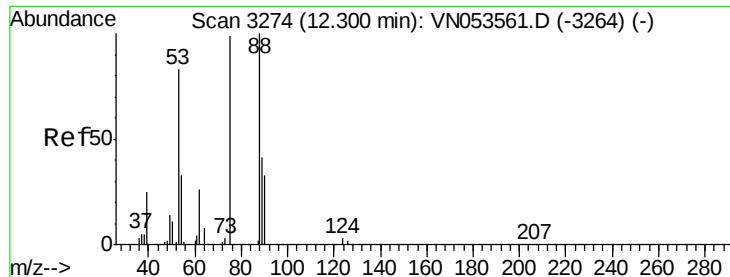
4000

2000

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 110.839 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053782.D

Acq: 14 Feb 2019 16:29

Instrument :

MSVOA_N

ClientSampleId :

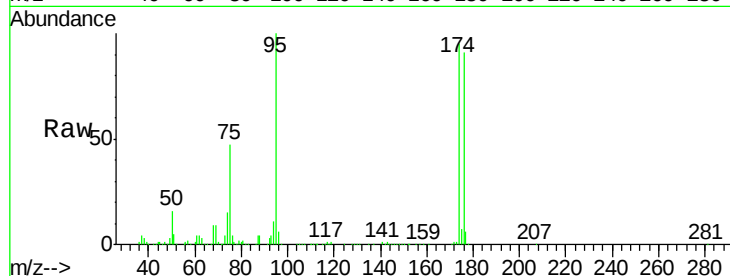
Tot Ion: 75 Resp: 223823

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

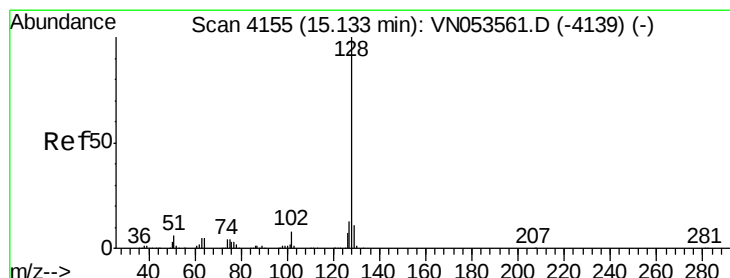
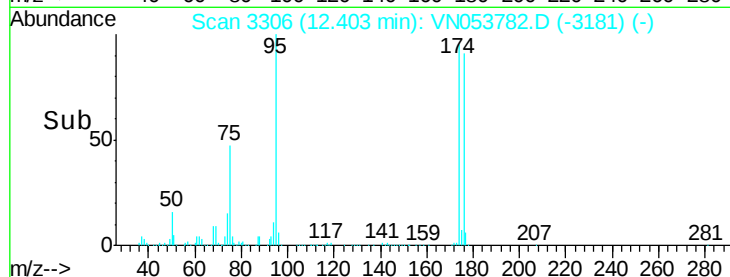
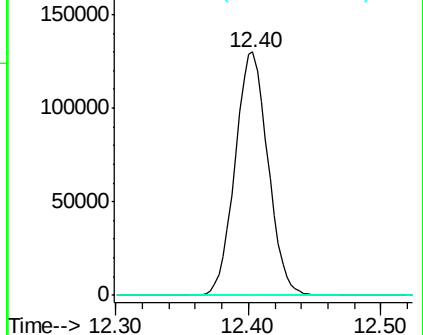
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053782.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053782.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053782.D (-3181) (-)



#95

Naphthalene

Concen: 1.769 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053782.D

Acq: 14 Feb 2019 16:29

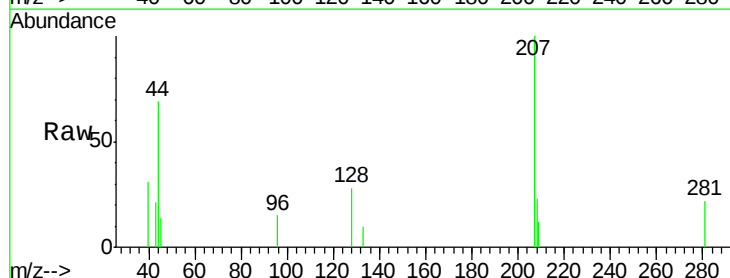
Tgt Ion: 128 Resp: 658

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): VN053782.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN053782.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN053782.D (-4061) (-)

