

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020819\
 Data File : VN053690.D
 Acq On : 8 Feb 2019 19:05
 Operator : JC/SP
 Sample : K1437-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 DSN001

Quant Time: Feb 09 02:39:24 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	840618	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1349178	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1209984	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	479616	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	428035	50.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.52%	
35) Dibromofluoromethane	7.59	113	421376	49.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.86%	
50) Toluene-d8	10.09	98	1625904	50.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.58%	
62) 4-Bromofluorobenzene	12.40	95	528219	49.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.96%	

Target Compounds

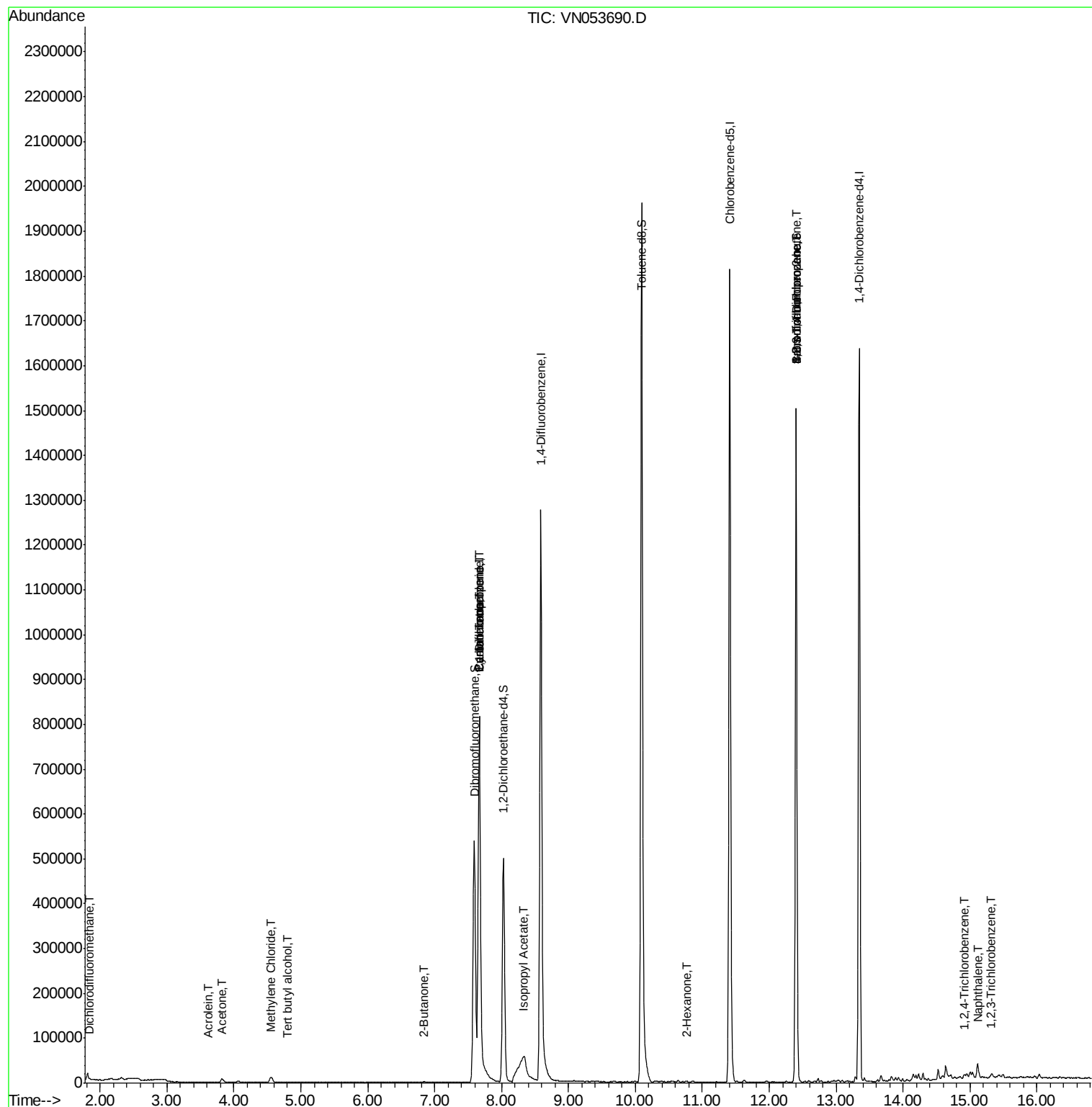
						Qvalue
2) Dichlorodifluoromethane	1.85	85	689	0.410	ug/l	94
11) Tert butyl alcohol	4.79	59	126	0.252	ug/l #	72
13) Acrolein	3.62	56	110	0.405	ug/l #	14
16) Acetone	3.82	43	15471	7.152	ug/l	100
20) Methylene Chloride	4.56	84	9524	1.049	ug/l	93
25) 2-Butanone	6.84	43	1497	0.485	ug/l #	88
31) Cyclohexane	7.67	56	11896	0.667	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	50817	4.178	ug/l #	48
38) Carbon Tetrachloride	7.67	117	67570	5.515	ug/l #	16
43) Isopropyl Acetate	8.33	43	165955	12.651	ug/l #	51
59) 2-Hexanone	10.76	43	1426	0.326	ug/l	80
71) Bromoform	12.41	173	3317	0.539	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	241248	39.161	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	241248	110.118	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	2352	0.262	ug/l	99
95) Naphthalene	15.13	128	7011	2.058	ug/l	95
96) 1,2,3-Trichlorobenzene	15.32	180	2620	0.315	ug/l	94

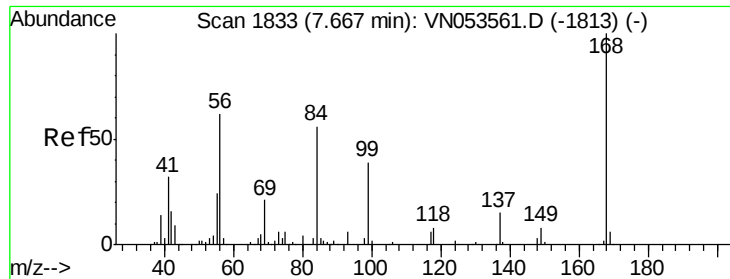
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN053690.D

Acq: 8 Feb 2019 19:05

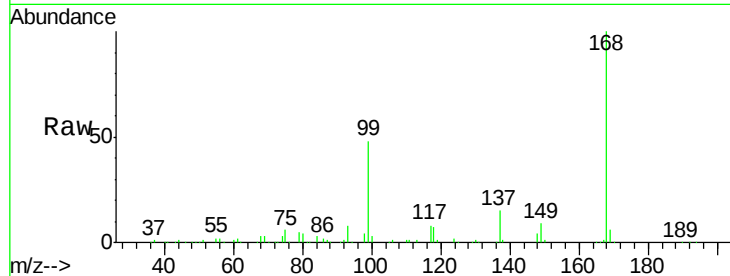
Instrument :
MSVOA_N
ClientSampleId :
DSN001

Tot Ion:168 Resp: 840618

Ion Ratio Lower Upper

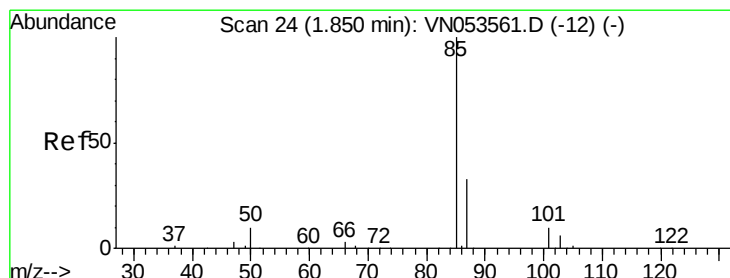
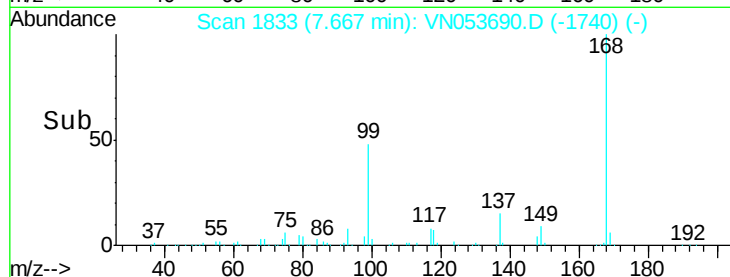
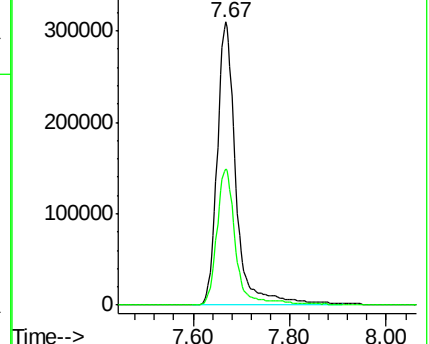
168 100

99 48.2 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 0.410 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN053690.D

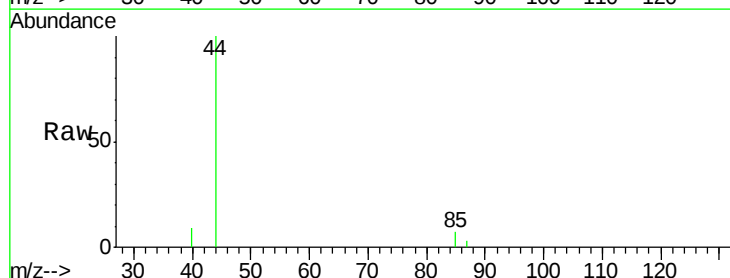
Acq: 8 Feb 2019 19:05

Tgt Ion: 85 Resp: 689

Ion Ratio Lower Upper

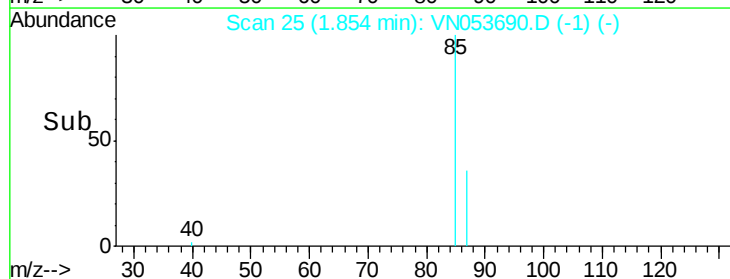
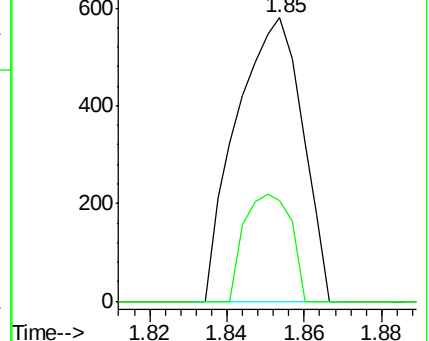
85 100

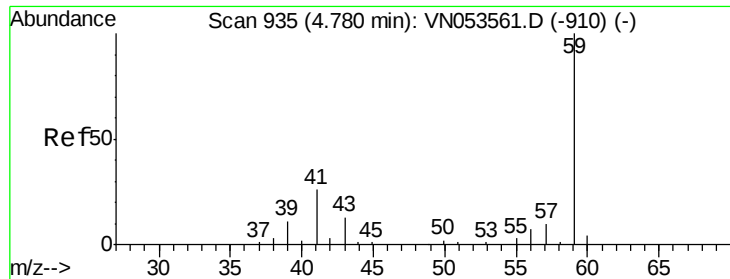
87 35.5 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

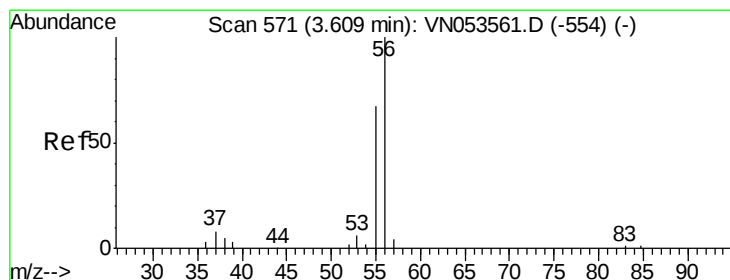
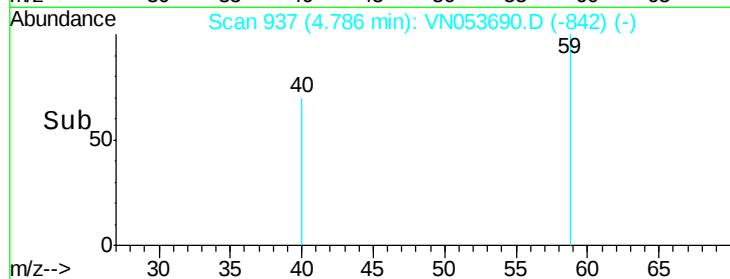
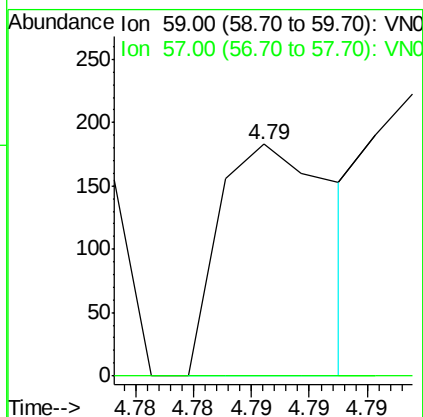
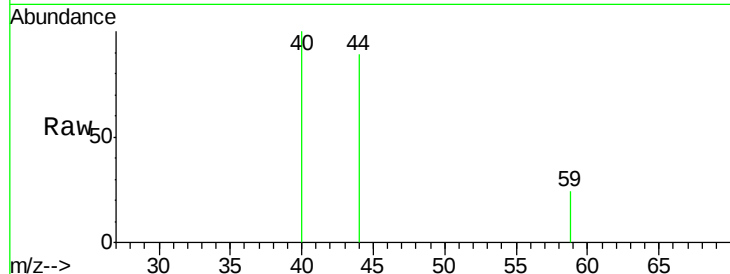




#11
Tert butyl alcohol
Concen: 0.252 ug/l
RT: 4.79 min Scan# 937
Delta R.T. 0.01 min
Lab File: VN053690.D
Acq: 8 Feb 2019 19:05

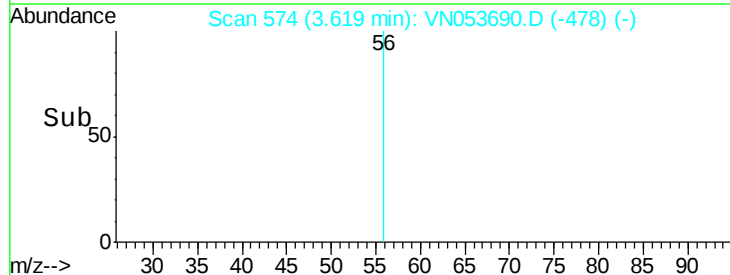
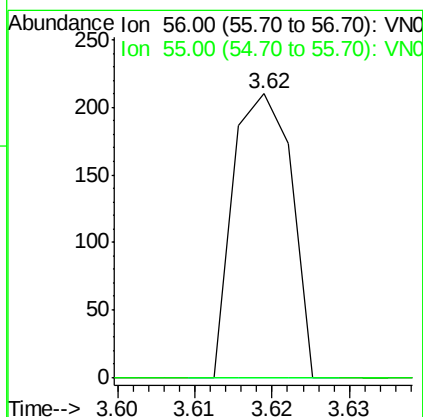
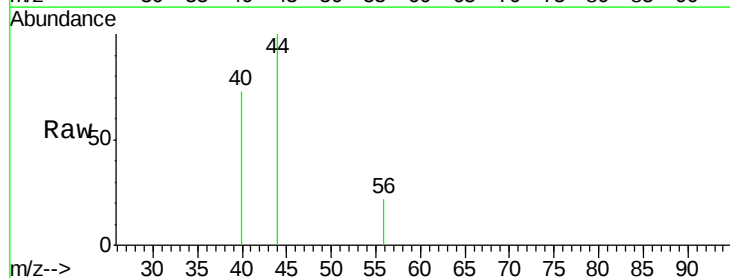
Instrument :
MSVOA_N
ClientSampled :
DSN001

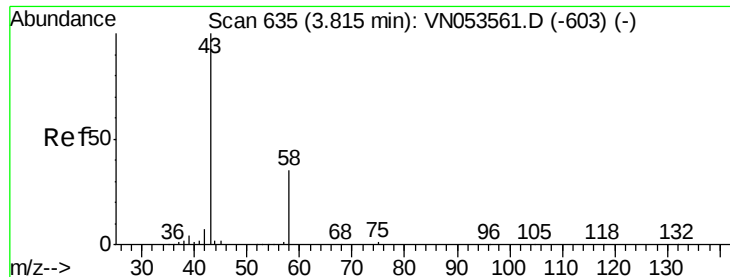
Tot Ion: 59 Resp: 126
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.405 ug/l
RT: 3.62 min Scan# 574
Delta R.T. 0.01 min
Lab File: VN053690.D
Acq: 8 Feb 2019 19:05

Tgt Ion: 56 Resp: 110
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#





#16

Acetone

Concen: 7.152 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053690.D

Acq: 8 Feb 2019 19:05

Instrument :

MSVOA_N

ClientSampled :

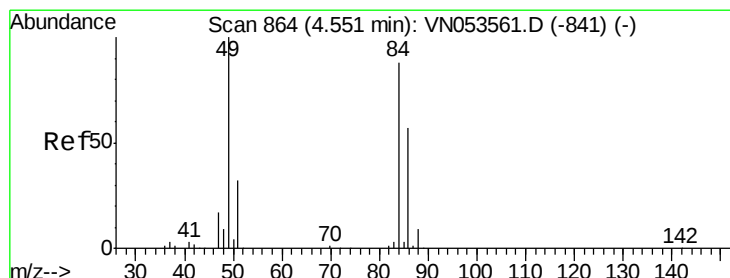
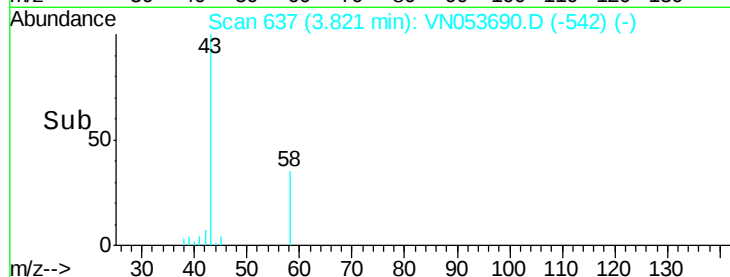
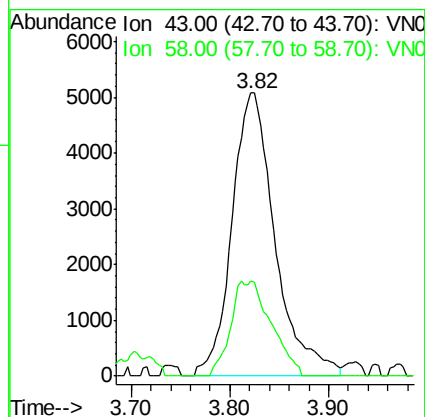
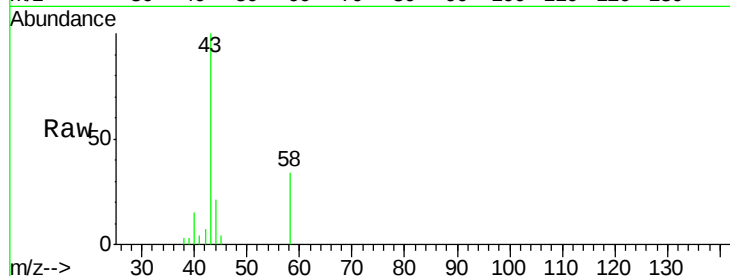
DSN001

Tot Ion: 43 Resp: 15471

Ion Ratio Lower Upper

43 100

58 33.7 27.1 40.7



#20

Methylene Chloride

Concen: 1.049 ug/l

RT: 4.56 min Scan# 867

Delta R.T. 0.01 min

Lab File: VN053690.D

Acq: 8 Feb 2019 19:05

Tgt Ion: 84 Resp: 9524

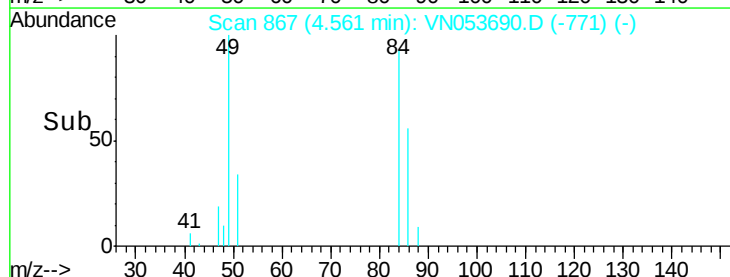
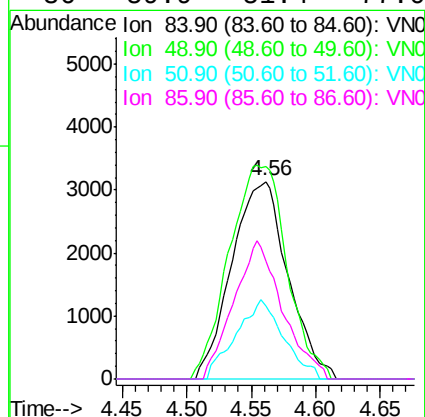
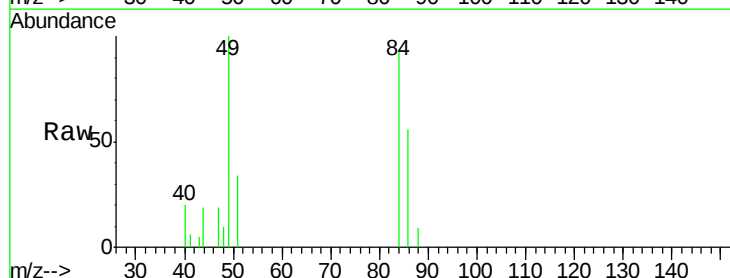
Ion Ratio Lower Upper

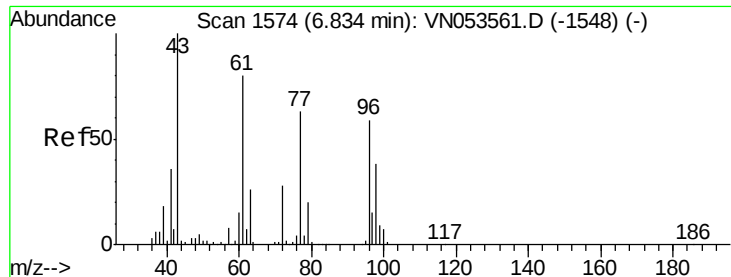
84 100

49 107.3 94.3 141.5

51 36.7 29.4 44.2

86 59.9 51.4 77.0





#25

2-Butanone

Concen: 0.485 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN053690.D

Acq: 8 Feb 2019 19:05

Instrument :

MSVOA_N

ClientSampled :

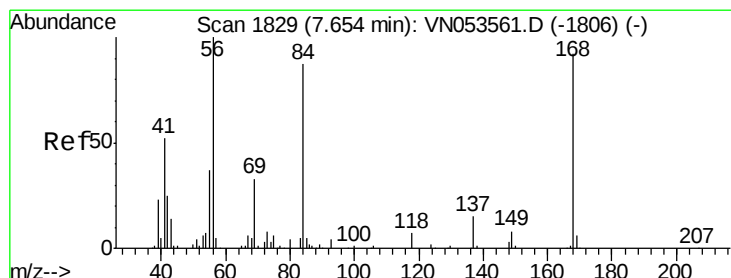
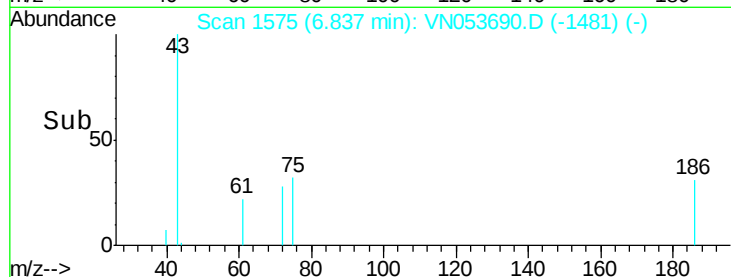
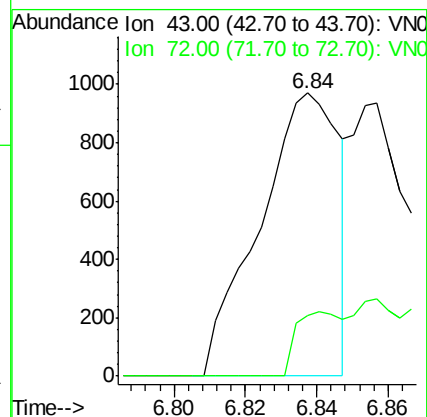
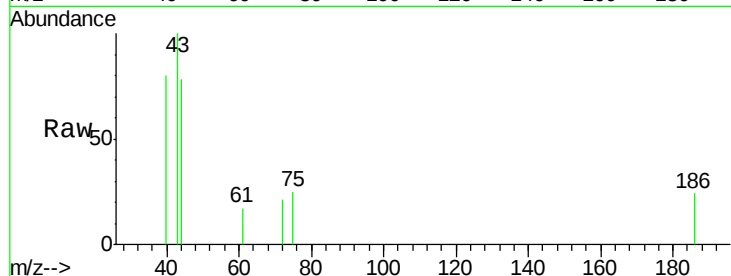
DSN001

Tot Ion: 43 Resp: 1497

Ion Ratio Lower Upper

43 100

72 21.4 22.0 33.0#



#31

Cyclohexane

Concen: 0.667 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053690.D

Acq: 8 Feb 2019 19:05

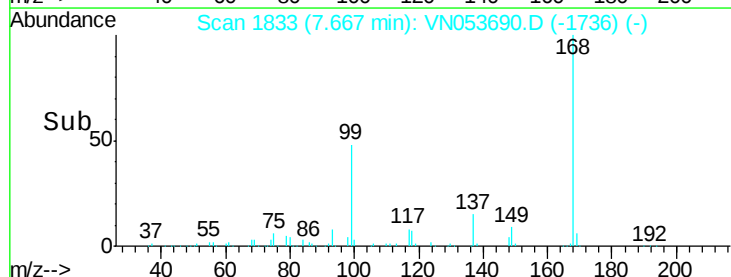
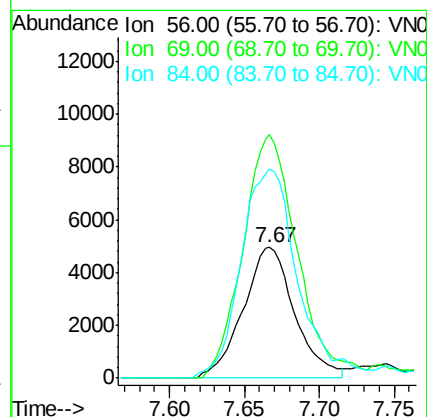
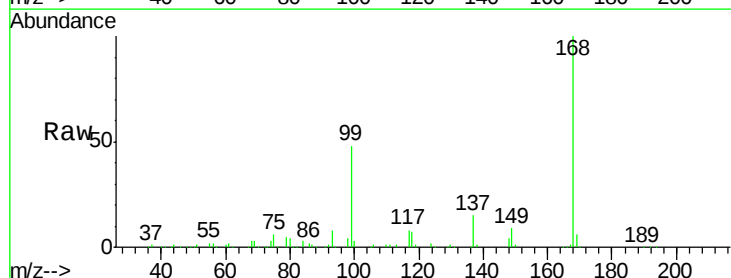
Tgt Ion: 56 Resp: 11896

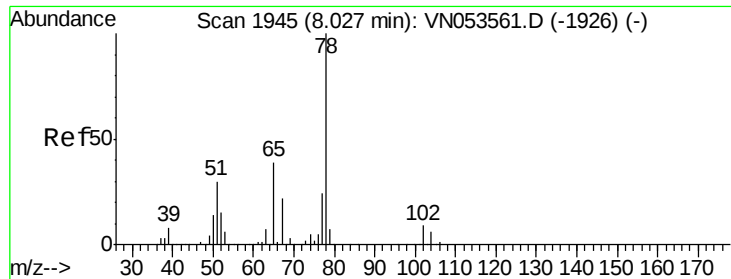
Ion Ratio Lower Upper

56 100

69 186.0 26.4 39.6#

84 159.6 67.9 101.9#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053690.D

Acq: 8 Feb 2019 19:05

Instrument :

MSVOA_N

ClientSampleId :

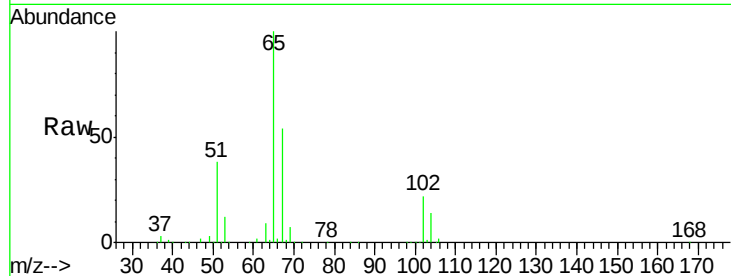
DSN001

Tot Ion: 65 Resp: 428035

Ion Ratio Lower Upper

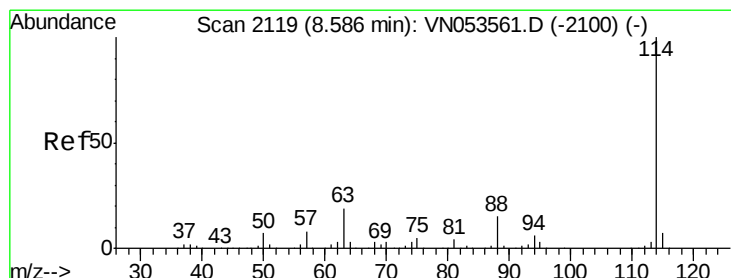
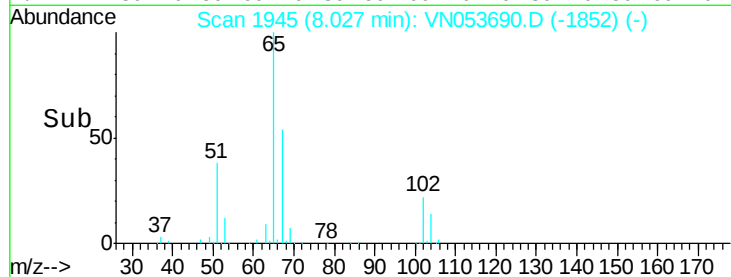
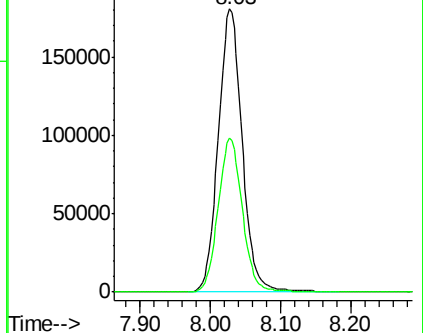
65 100

67 55.0 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN053690.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN053690.D (-1852) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053690.D

Acq: 8 Feb 2019 19:05

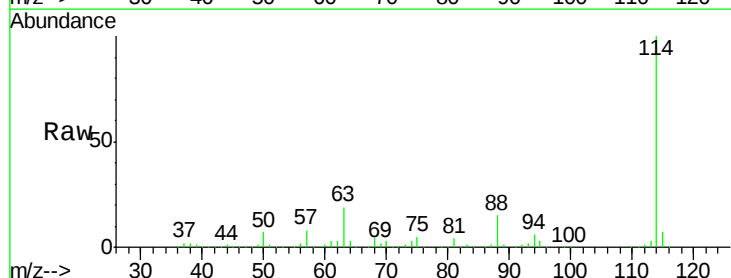
Tgt Ion: 114 Resp: 1349178

Ion Ratio Lower Upper

114 100

63 18.9 0.0 38.6

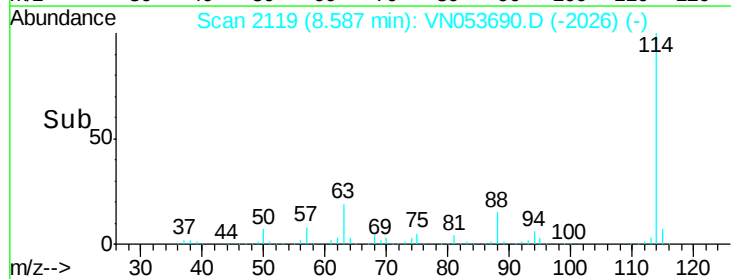
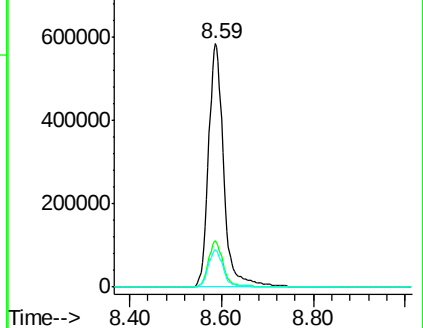
88 15.3 0.0 30.4

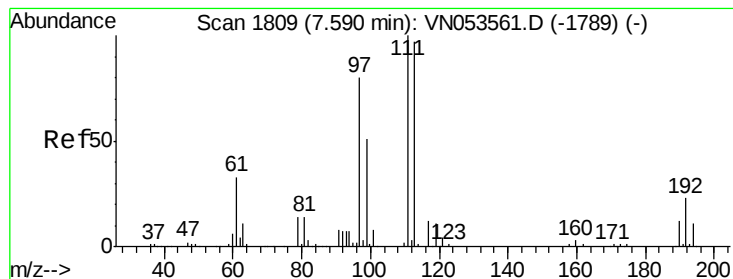


Abundance Ion 113.90 (113.60 to 114.60): VN053690.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN053690.D (-2026) (-)

Ion 87.90 (87.60 to 88.60): VN053690.D (-2026) (-)





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053690.D

Acq: 8 Feb 2019 19:05

Instrument :

MSVOA_N

ClientSampleId :

DSN001

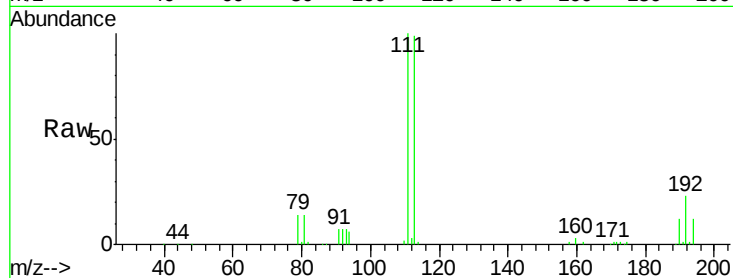
Tot Ion:113 Resp: 421376

Ion Ratio Lower Upper

113 100

111 102.8 81.1 121.7

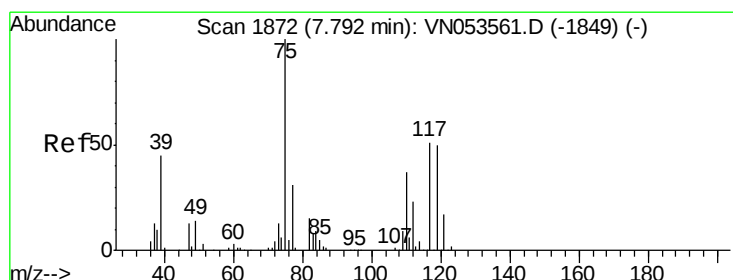
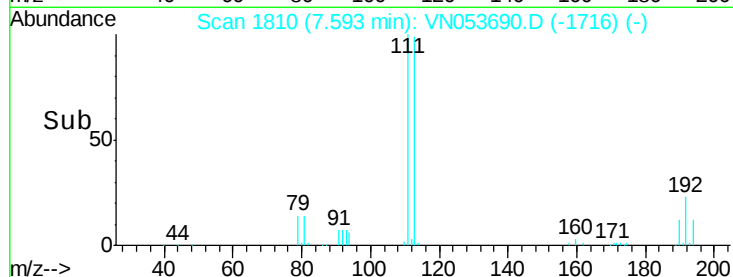
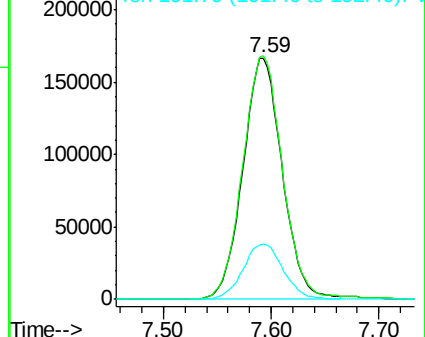
192 23.5 18.2 27.2



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: 4.178 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053690.D

Acq: 8 Feb 2019 19:05

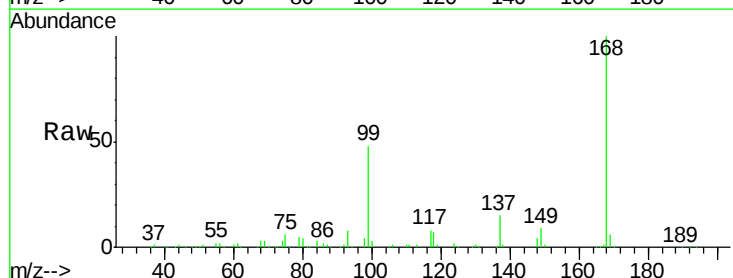
Tgt Ion: 75 Resp: 50817

Ion Ratio Lower Upper

75 100

110 8.4 18.1 54.3#

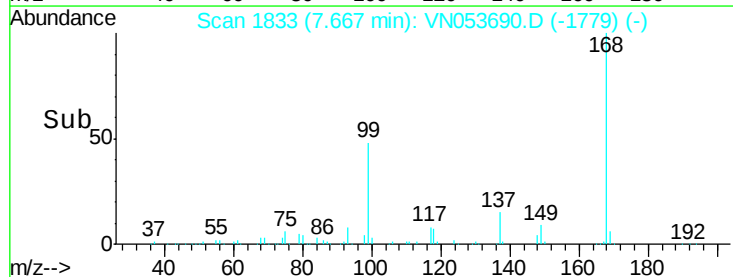
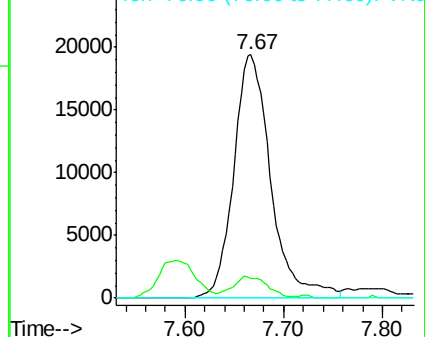
77 0.0 25.1 37.7#

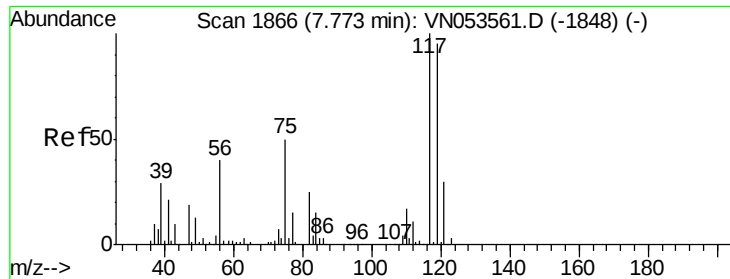


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO

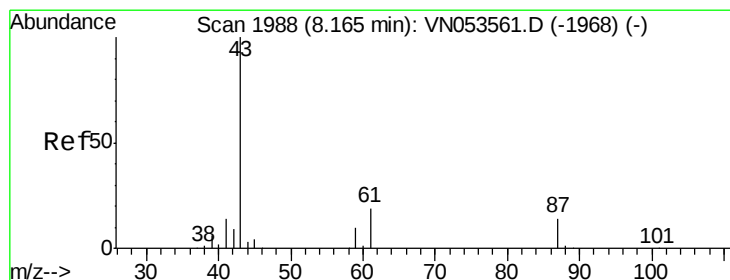
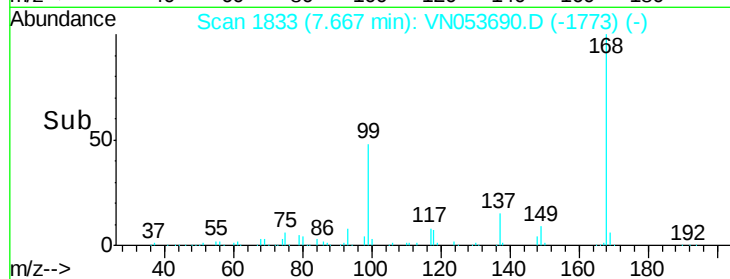
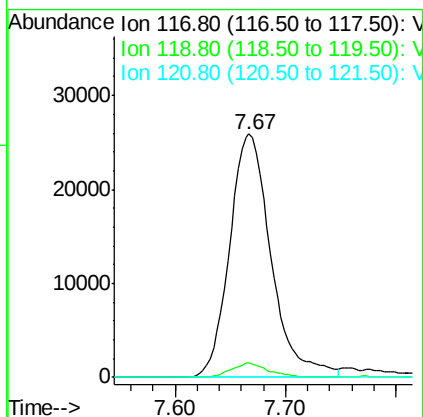
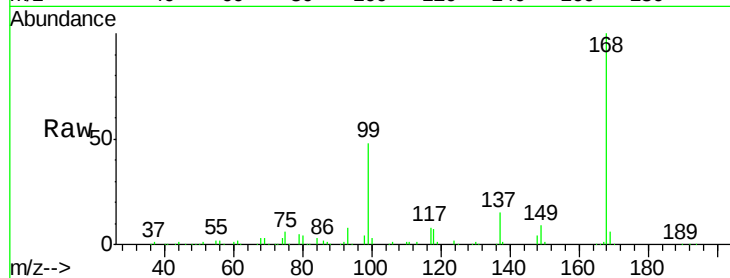




#38
Carbon Tetrachloride
Concen: 5.515 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053690.D
Acq: 8 Feb 2019 19:05

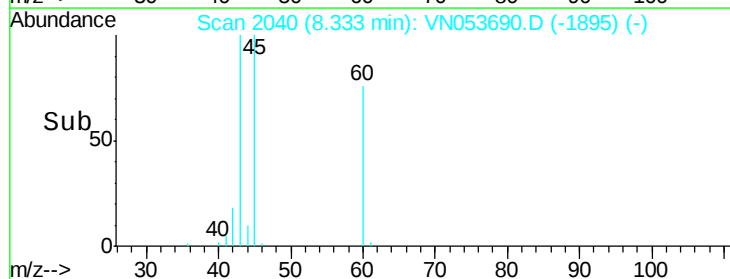
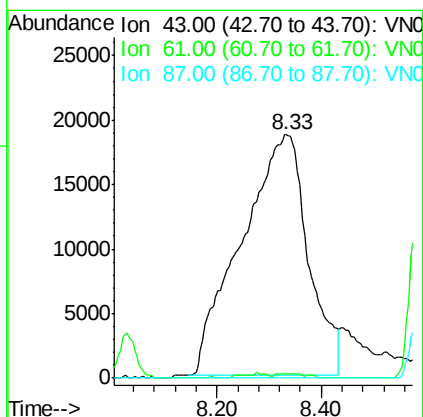
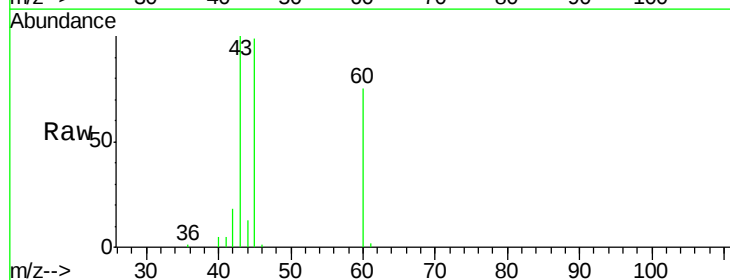
Instrument :
MSVOA_N
ClientSampled :
DSN001

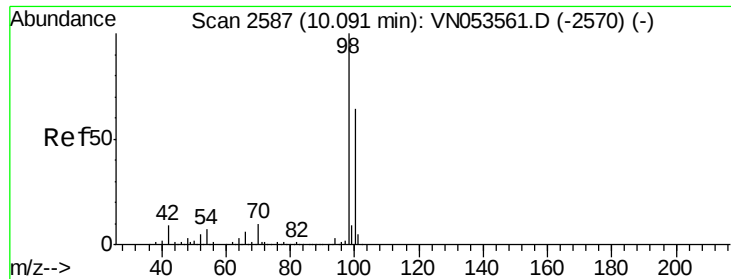
Tot Ion:117 Resp: 67570
Ion Ratio Lower Upper
117 100
119 6.1 77.2 115.8#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 12.651 ug/l
RT: 8.33 min Scan# 2040
Delta R.T. 0.17 min
Lab File: VN053690.D
Acq: 8 Feb 2019 19:05

Tgt Ion: 43 Resp: 165955
Ion Ratio Lower Upper
43 100
61 0.0 23.9 35.9#
87 0.0 11.0 16.6#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053690.D

Acq: 8 Feb 2019 19:05

Instrument :

MSVOA_N

ClientSampled :

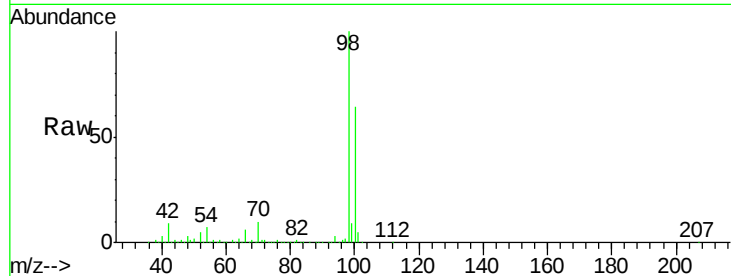
DSN001

Tot Ion: 98 Resp: 1625904

Ion Ratio Lower Upper

98 100

100 63.9 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053561.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN053561.D (-2570) (-)

10.09

800000

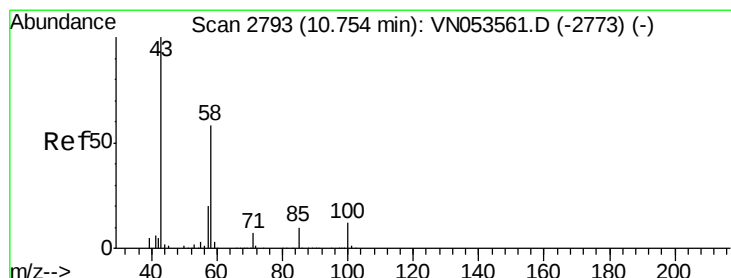
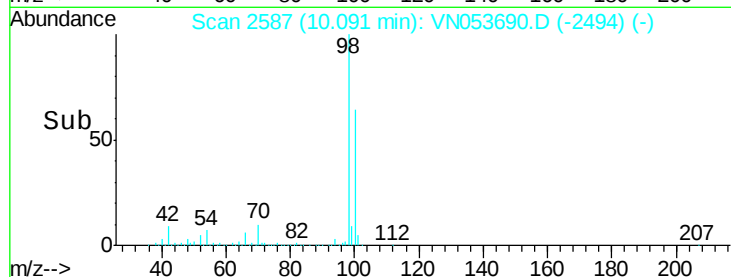
600000

400000

200000

0

Time-->



#59

2-Hexanone

Concen: 0.326 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN053690.D

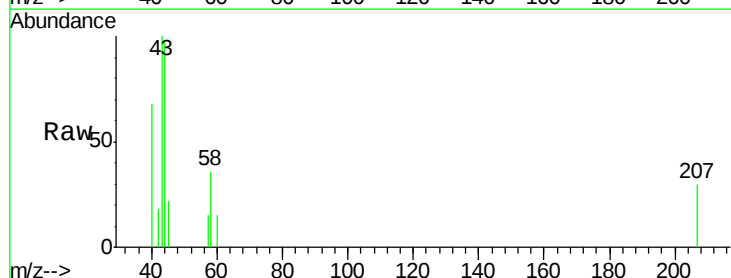
Acq: 8 Feb 2019 19:05

Tgt Ion: 43 Resp: 1426

Ion Ratio Lower Upper

43 100

58 42.7 28.6 85.8



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-2773) (-)

Ion 58.00 (57.70 to 58.70): VN053561.D (-2773) (-)

10.76

1200

1000

800

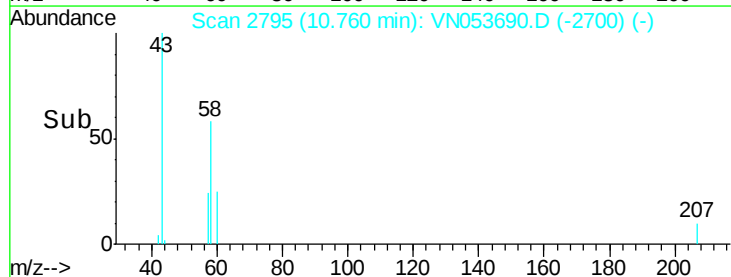
600

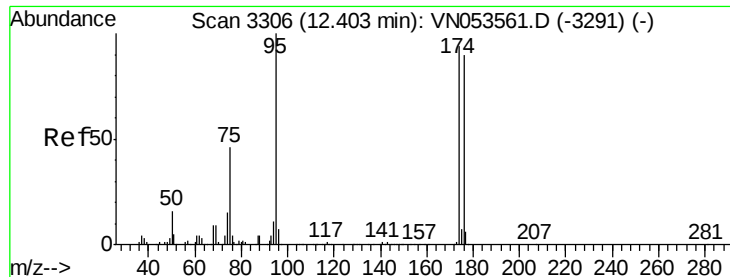
400

200

0

Time-->





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053690.D

Acq: 8 Feb 2019 19:05

Instrument :

MSVOA_N

ClientSampleId :

DSN001

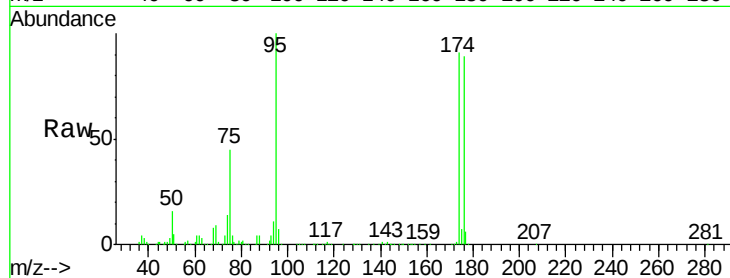
Tot Ion: 95 Resp: 528219

Ion Ratio Lower Upper

95 100

174 92.7 0.0 183.2

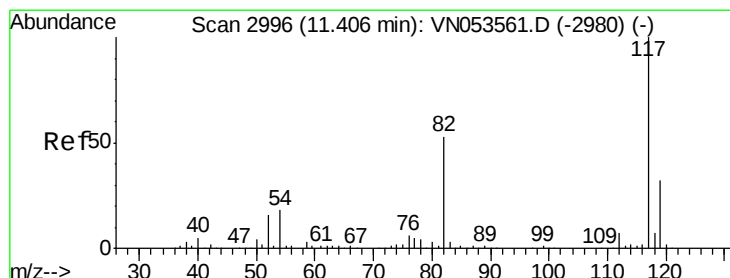
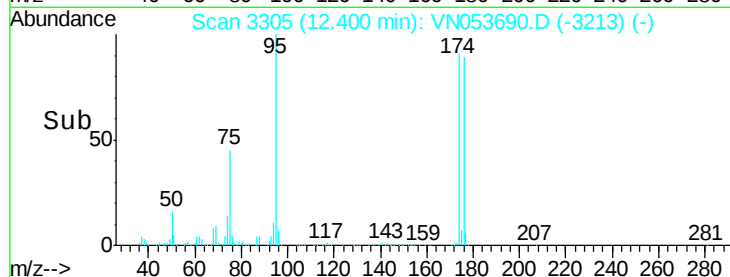
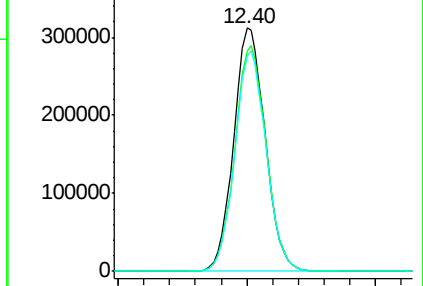
176 90.3 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053561.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053561.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053561.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053690.D

Acq: 8 Feb 2019 19:05

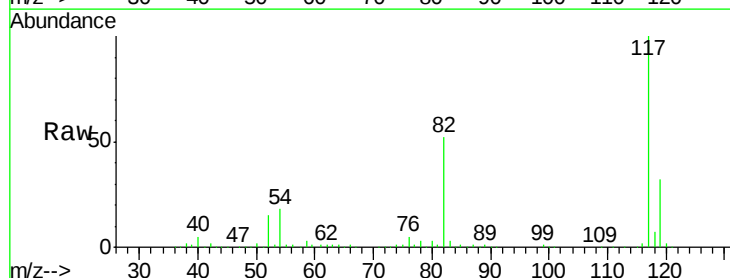
Tgt Ion: 117 Resp: 1209984

Ion Ratio Lower Upper

117 100

82 52.0 42.9 64.3

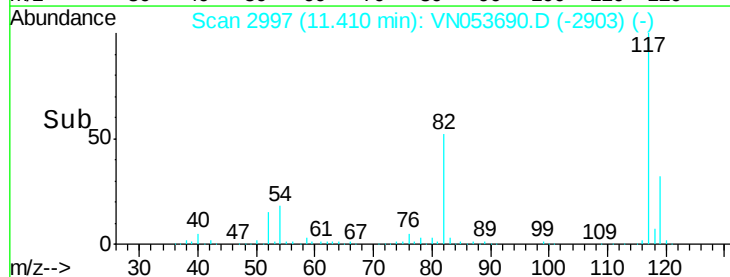
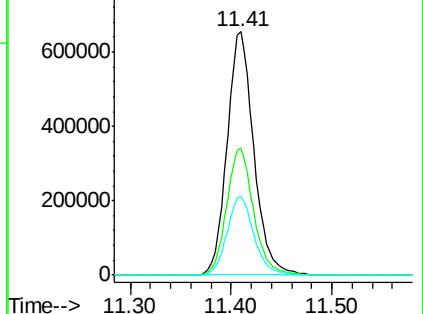
119 32.3 26.0 39.0

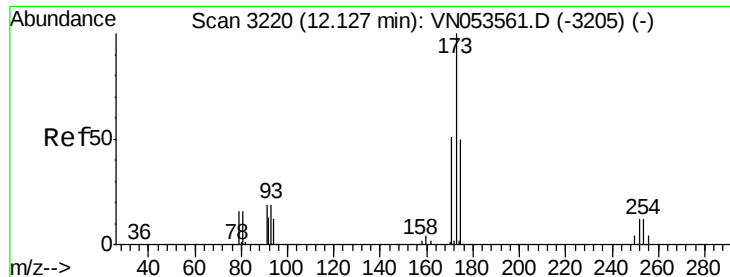


Abundance Ion 116.90 (116.60 to 117.60): VN053561.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053561.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053561.D (-2980) (-)





#71

Bromoform

Concen: 0.539 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN053690.D

Acq: 8 Feb 2019 19:05

Instrument :

MSVOA_N

ClientSampled :

DSN001

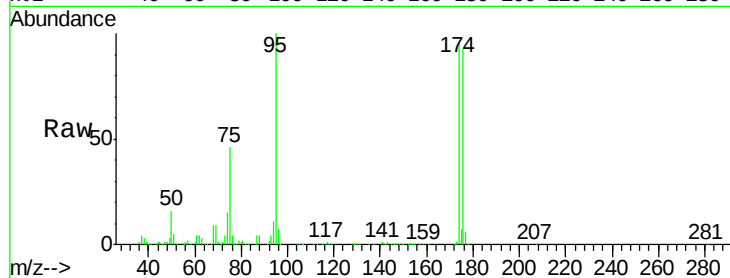
Tot Ion:173 Resp: 3317

Ion Ratio Lower Upper

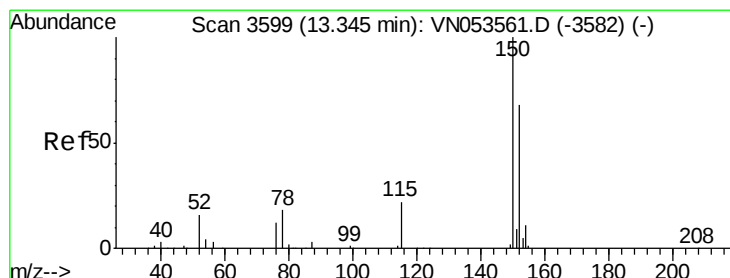
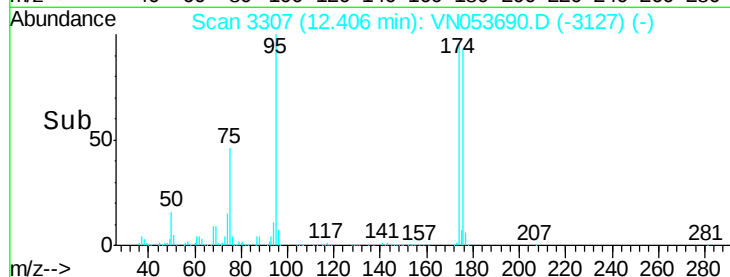
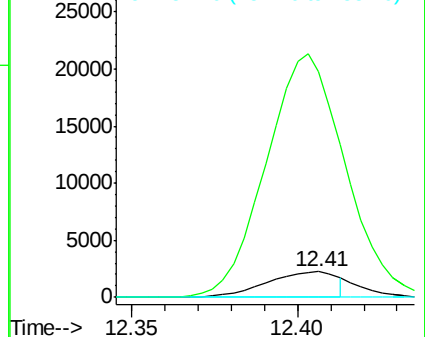
173 100

175 908.0 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: VN053690.D

Acq: 8 Feb 2019 19:05

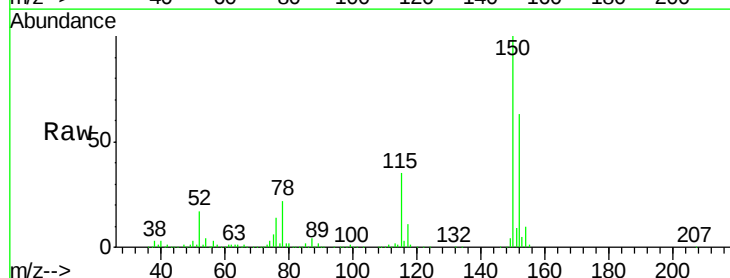
Tgt Ion:152 Resp: 479616

Ion Ratio Lower Upper

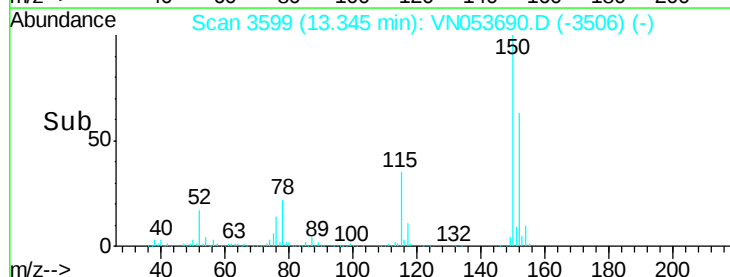
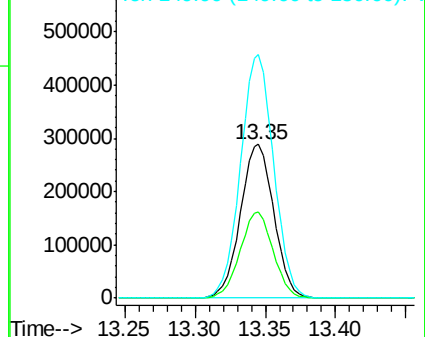
152 100

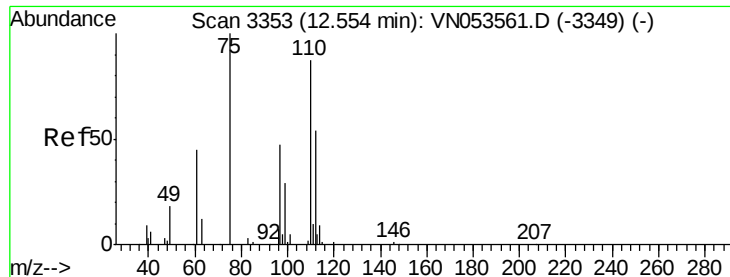
115 55.4 27.8 83.4

150 157.0 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: 39.161 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053690.D

Acq: 8 Feb 2019 19:05

Instrument :

MSVOA_N

ClientSampleId :

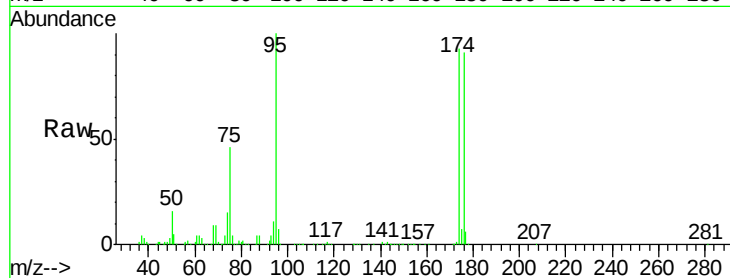
DSN001

Tot Ion: 75 Resp: 241248

Ion Ratio Lower Upper

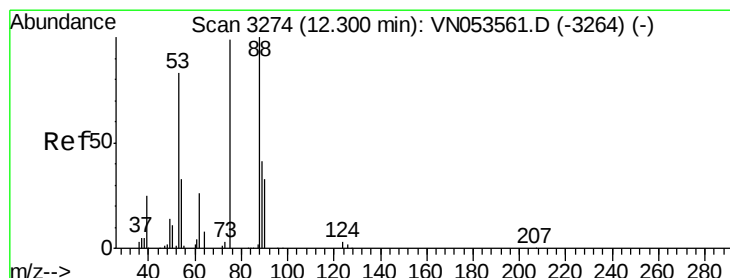
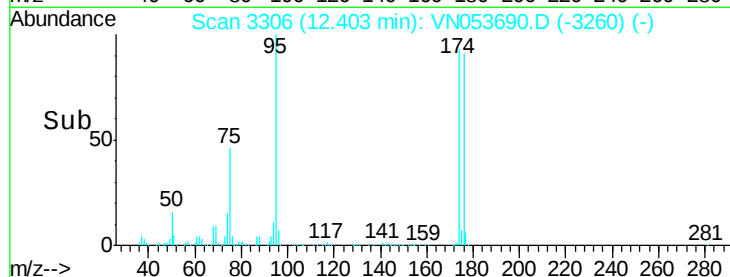
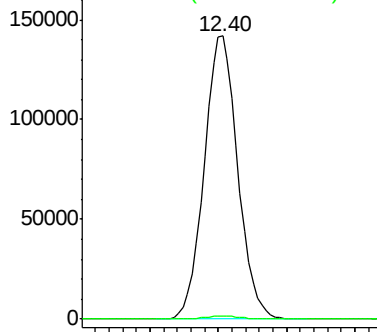
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 110.118 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053690.D

Acq: 8 Feb 2019 19:05

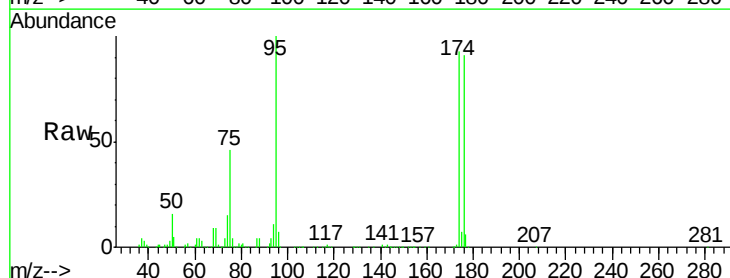
Tgt Ion: 75 Resp: 241248

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

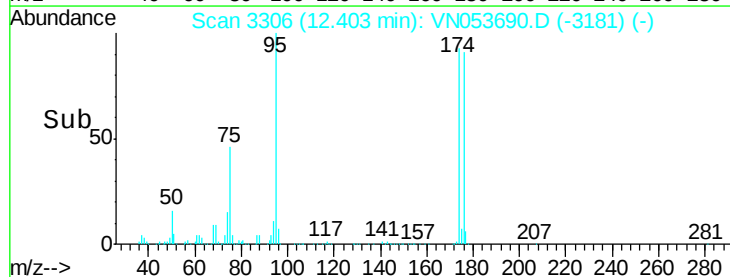
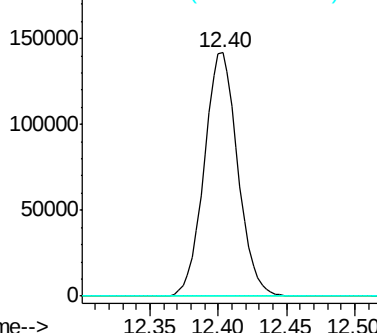
89 0.0 35.6 53.4#

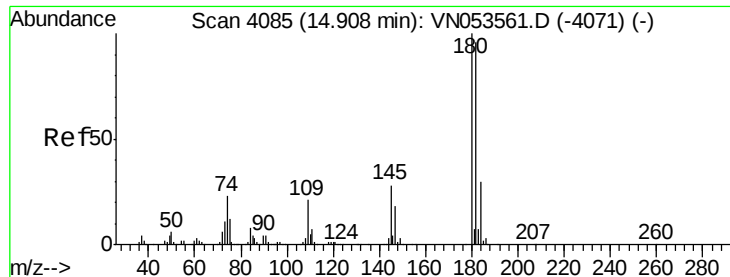


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

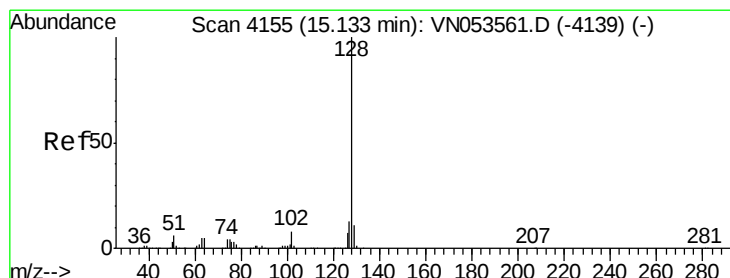
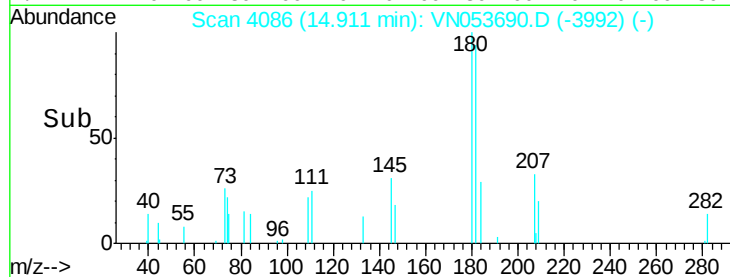
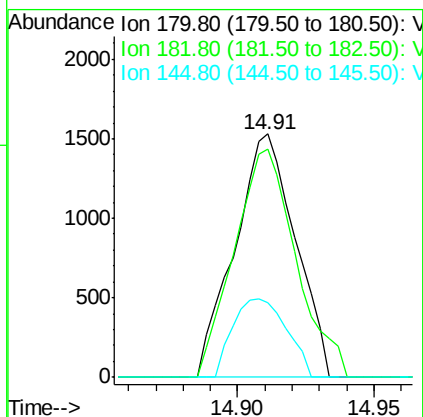
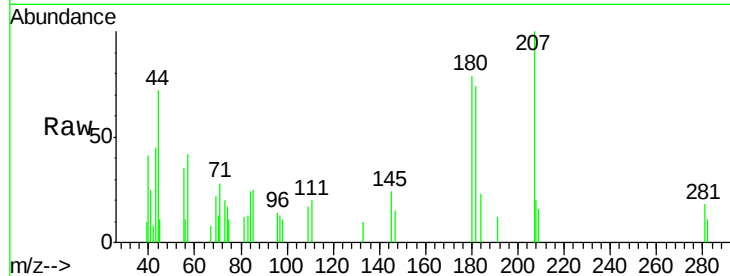




#93
 1,2,4-Trichlorobenzene
 Concen: 0.262 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053690.D
 Acq: 8 Feb 2019 19:05

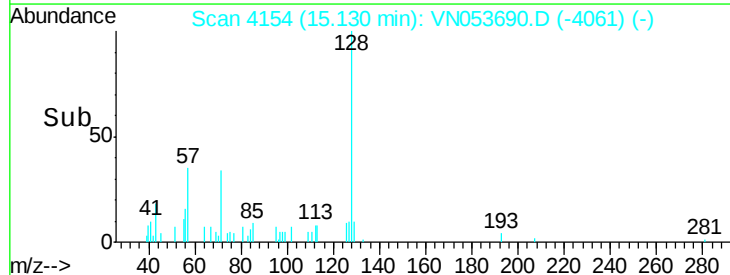
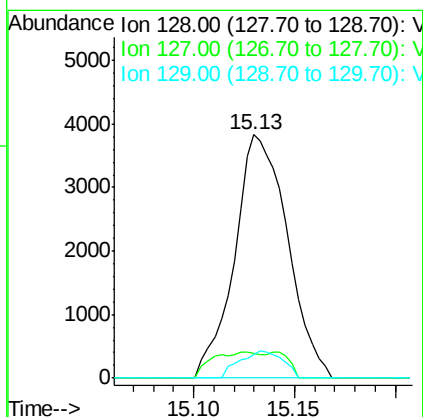
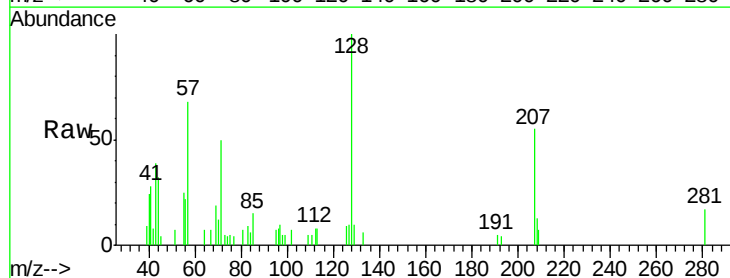
Instrument :
 MSVOA_N
 ClientSampled :
 DSN001

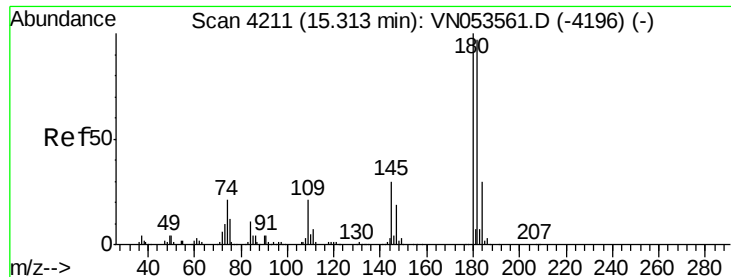
Tot Ion:180 Resp: 2352
 Ion Ratio Lower Upper
 180 100
 182 95.7 48.1 144.3
 145 28.7 13.9 41.6



#95
 Naphthalene
 Concen: 2.058 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN053690.D
 Acq: 8 Feb 2019 19:05

Tgt Ion:128 Resp: 7011
 Ion Ratio Lower Upper
 128 100
 127 10.6 10.3 15.5
 129 9.2 8.6 13.0

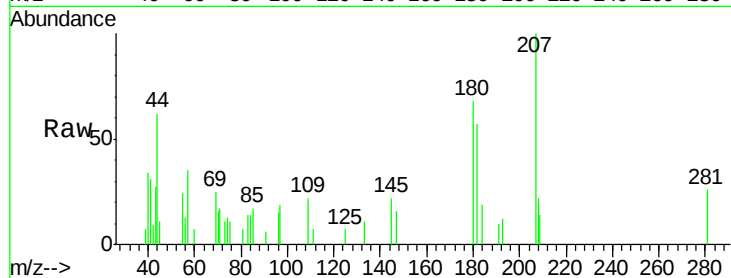




#96
 1,2,3-Trichlorobenzene
 Concen: 0.315 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.01 min
 Lab File: VN053690.D
 Acq: 8 Feb 2019 19:05

Instrument :
 MSVOA_N
 ClientSampleId :
 DSN001

Tot Ion:180 Resp: 2620
 Ion Ratio Lower Upper
 180 100
 182 101.1 47.9 143.8
 145 32.9 14.7 44.1



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

