

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051570.D
 Acq On : 27 Sep 2018 9:22
 Operator : MD\SY
 Sample : J4779-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-092418-B

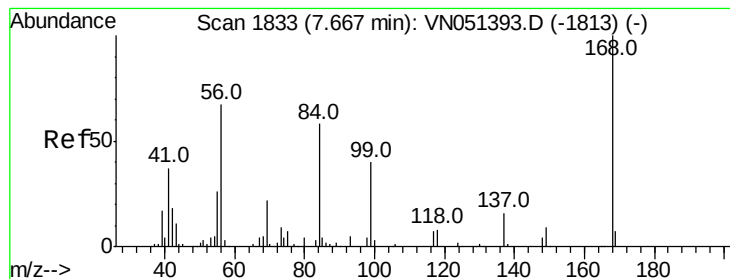
Quant Time: Sep 27 11:22:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	635713	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1025435	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	871415	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	321680	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	453420	56.94	ug/l	0.00
Spiked Amount			Recovery	=	113.88%	
35) Dibromofluoromethane	7.59	113	395715	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	
50) Toluene-d8	10.09	98	1440691	46.66	ug/l	0.00
Spiked Amount			Recovery	=	93.32%	
62) 4-Bromofluorobenzene	12.40	95	399129	39.96	ug/l	0.00
Spiked Amount			Recovery	=	79.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1169	0.246	ug/l #	79
16) Acetone	3.82	43	27485	Below Cal		99
18) Methyl Acetate	4.33	43	11272	1.859	ug/l	97
20) Methylene Chloride	4.55	84	54805	6.955	ug/l	97
25) 2-Butanone	6.86	43	4718	1.731	ug/l #	88
29) Tetrahydrofuran	7.22	42	562	0.325	ug/l #	49
30) Chloroform	7.37	83	9676	0.713	ug/l	98
31) Cyclohexane	7.67	56	11946	0.953	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47015	3.959	ug/l #	48
38) Carbon Tetrachloride	7.67	117	56229	4.527	ug/l #	16
43) Isopropyl Acetate	8.17	43	261466	21.178	ug/l	94
47) Bromodichloromethane	9.40	83	2919	0.246	ug/l #	81
48) Methyl methacrylate	9.18	41	6846	1.112	ug/l #	21
51) 4-Methyl-2-Pentanone	9.98	43	2185	0.322	ug/l #	85
59) 2-Hexanone	10.76	43	14856	3.375	ug/l #	57
67) Ethyl Benzene	11.51	91	11206	0.297	ug/l	99
68) m/p-Xylenes	11.62	106	12459	0.855	ug/l	95
69) o-Xylene	11.95	106	3738	0.267	ug/l	97
76) 1,2,3-Trichloropropane	12.40	75	193284	36.195	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	193284	111.297	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.04	105	10821	0.485	ug/l	98
93) 1,2,4-Trichlorobenzene	14.91	180	91	5.995	ug/l #	51
95) Naphthalene	15.13	128	33888	10.422	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

Instrument :

MSVOA_N

ClientSampleId :

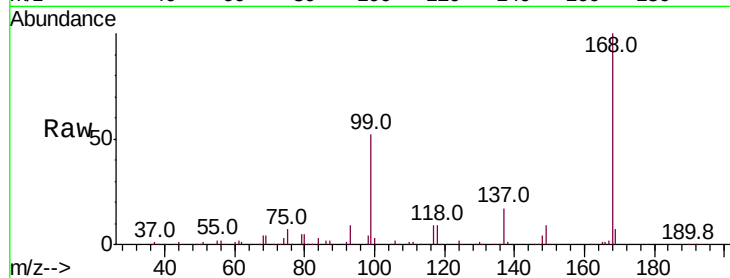
SU-02-092418-B

Tot Ion:168 Resp: 635713

Ion Ratio Lower Upper

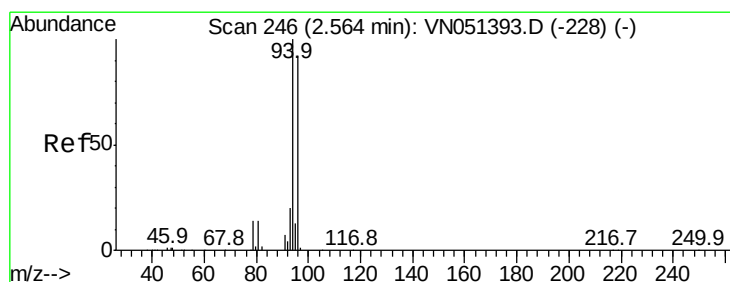
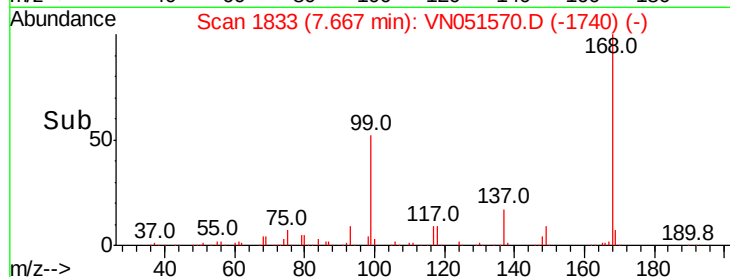
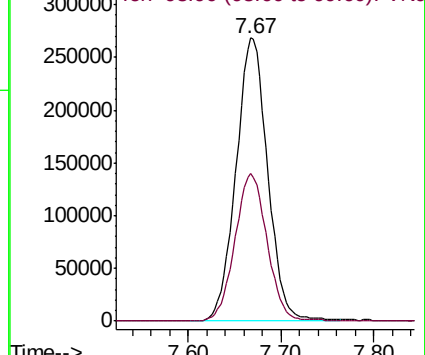
168 100

99 52.0 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: 0.246 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051570.D

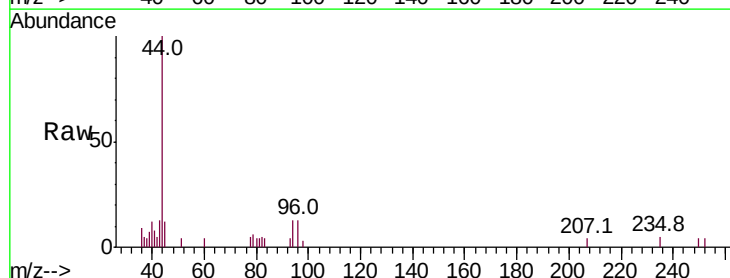
Acq: 27 Sep 2018 9:22

Tgt Ion: 94 Resp: 1169

Ion Ratio Lower Upper

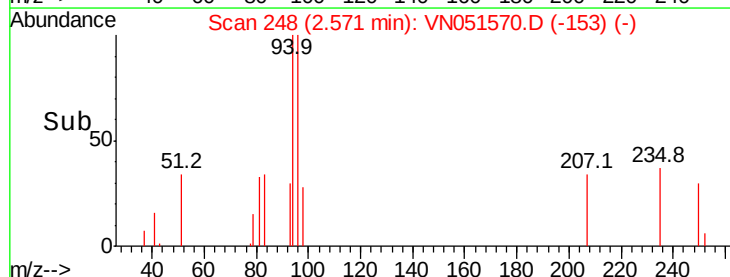
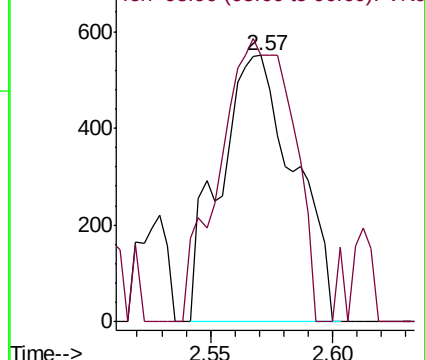
94 100

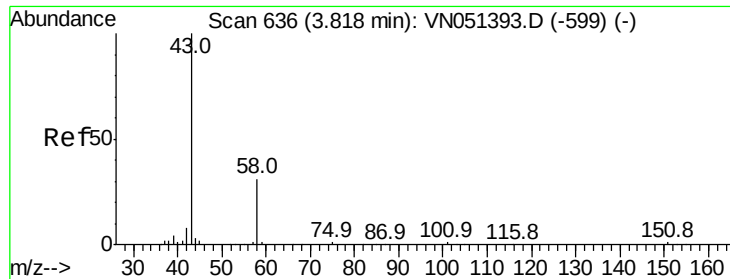
96 71.7 73.6 110.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

Instrument :

MSVOA_N

ClientSampleId :

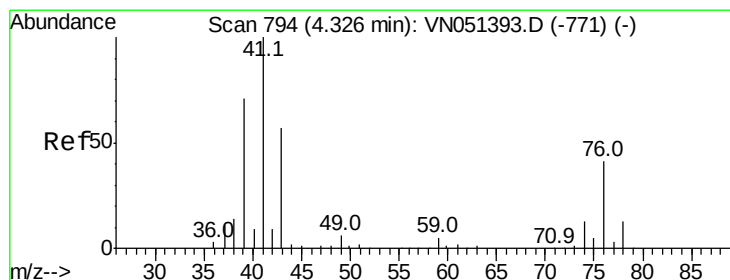
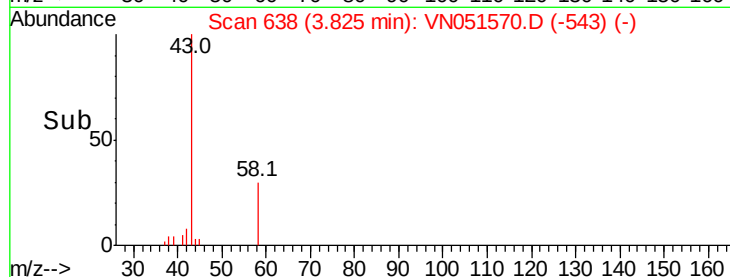
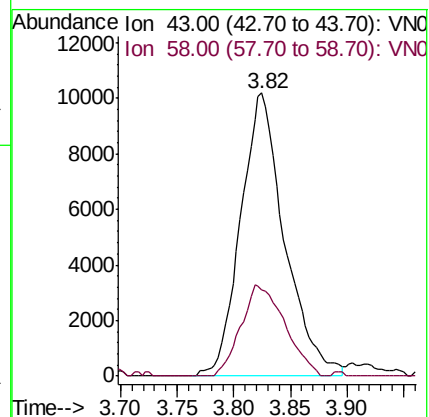
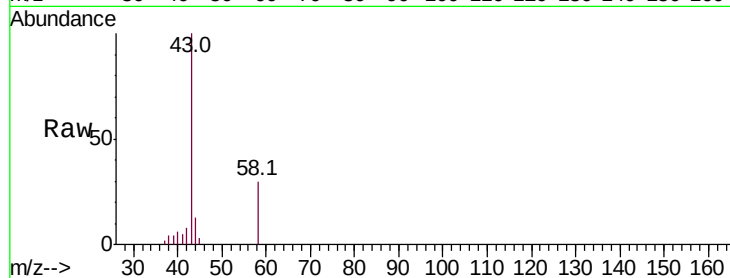
SU-02-092418-B

Tot Ion: 43 Resp: 27485

Ion Ratio Lower Upper

43 100

58 30.5 25.0 37.4



#18

Methyl Acetate

Concen: 1.859 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051570.D

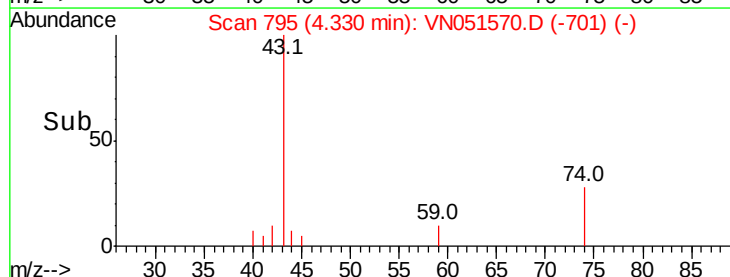
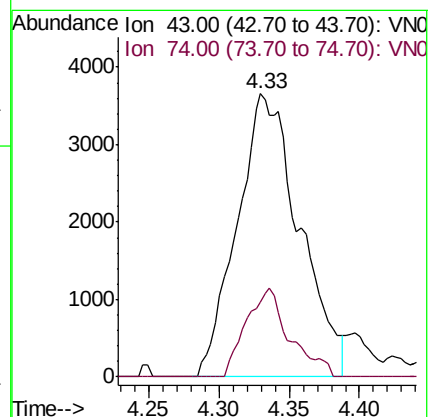
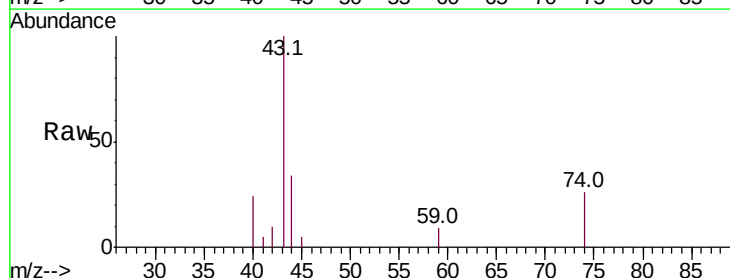
Acq: 27 Sep 2018 9:22

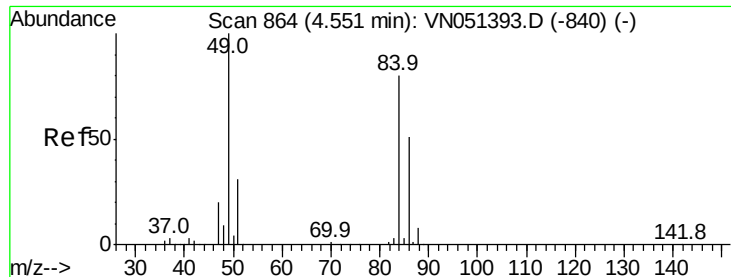
Tgt Ion: 43 Resp: 11272

Ion Ratio Lower Upper

43 100

74 22.1 18.8 28.2

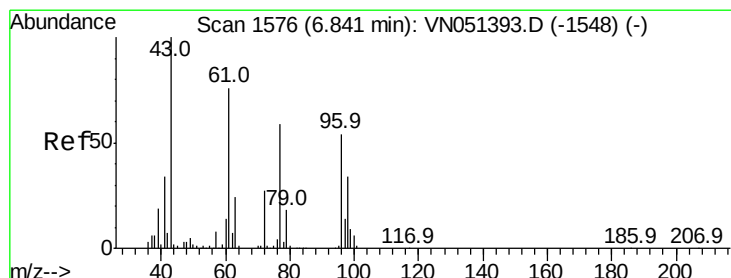
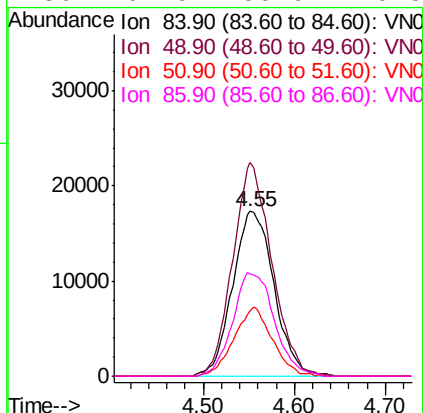
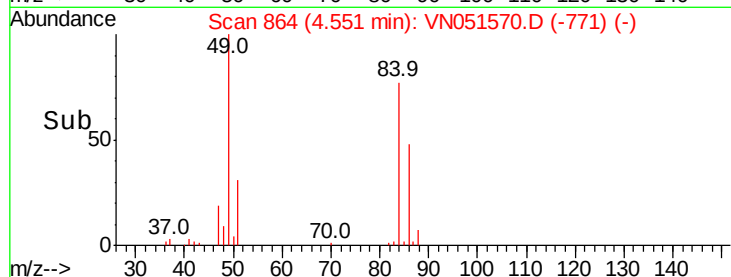
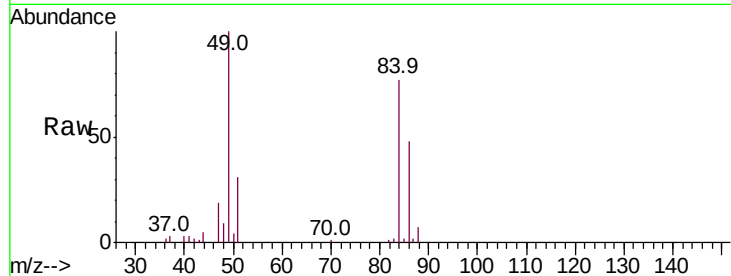




#20
Methvlene Chloride
Concen: 6.955 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN051570.D
Acq: 27 Sep 2018 9:22

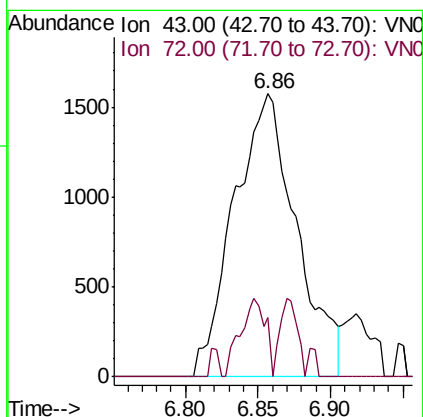
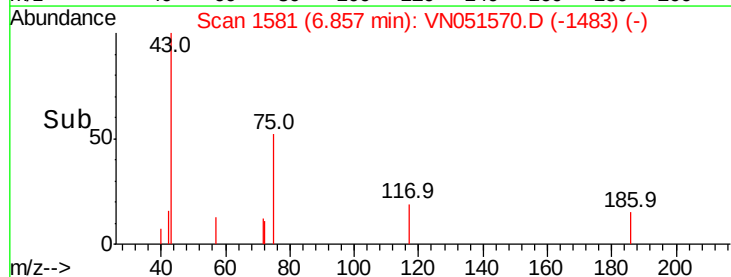
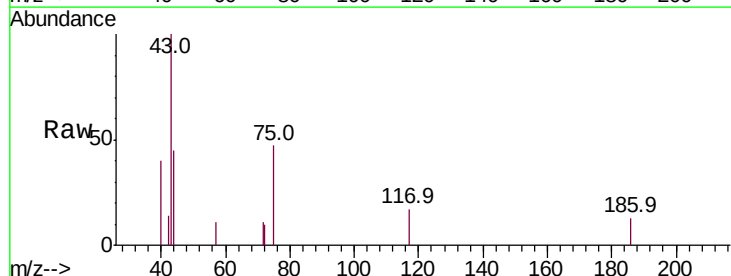
Instrument :
MSVOA_N
ClientSampleId :
SU-02-092418-B

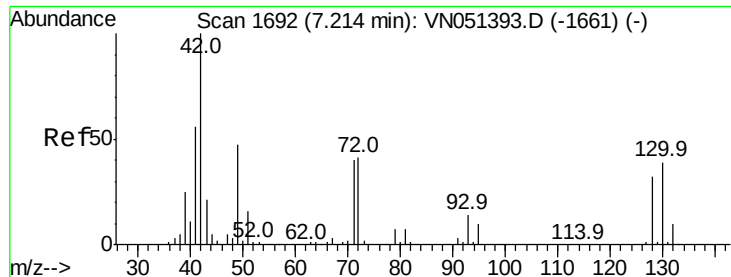
Tot Ion: 84 Resp: 54805
Ion Ratio Lower Upper
84 100
49 129.5 99.9 149.9
51 39.7 31.4 47.2
86 62.0 50.9 76.3



#25
2-Butanone
Concen: 1.731 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN051570.D
Acq: 27 Sep 2018 9:22

Tgt Ion: 43 Resp: 4718
Ion Ratio Lower Upper
43 100
72 20.9 21.8 32.6#





#29

Tetrahydrofuran

Concen: 0.325 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

Instrument :

MSVOA_N

ClientSampled :

SU-02-092418-B

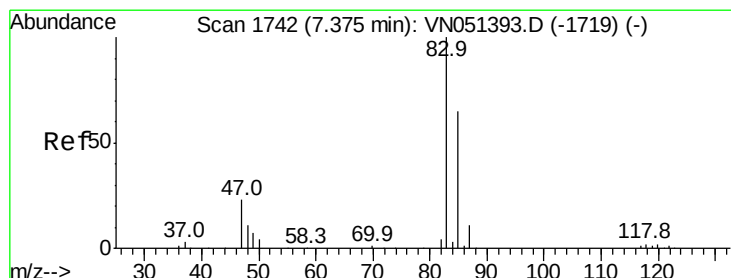
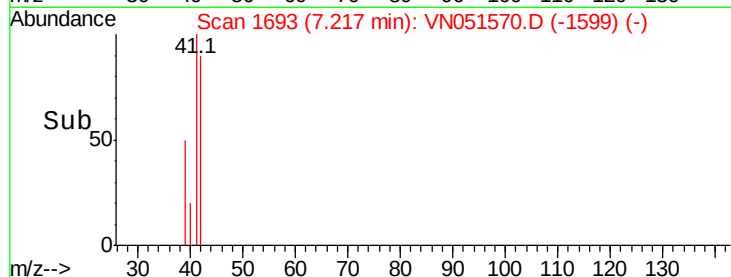
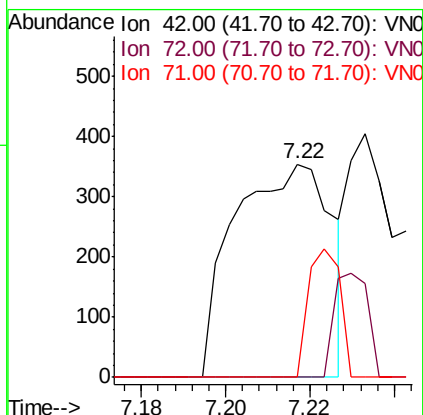
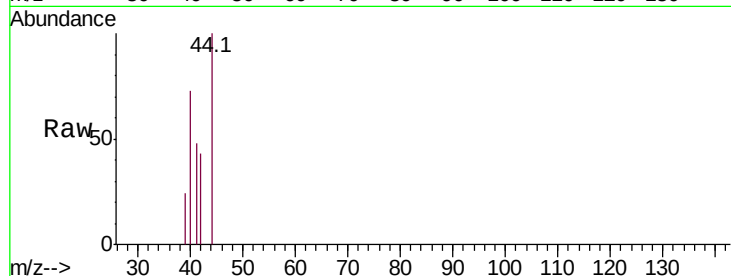
Tot Ion: 42 Resp: 562

Ion Ratio Lower Upper

42 100

72 0.0 34.3 51.5#

71 19.9 32.2 48.4#



#30

Chloroform

Concen: 0.713 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN051570.D

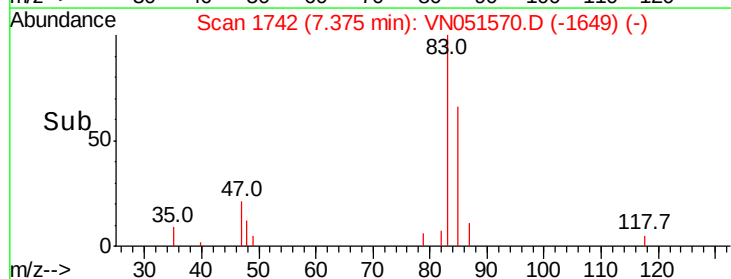
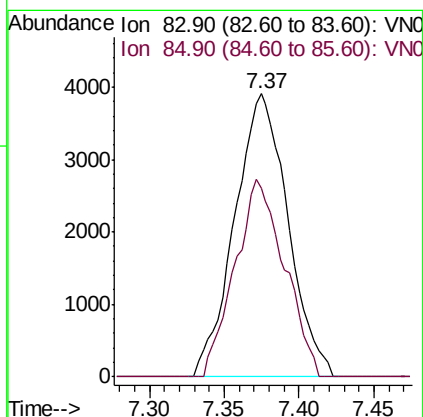
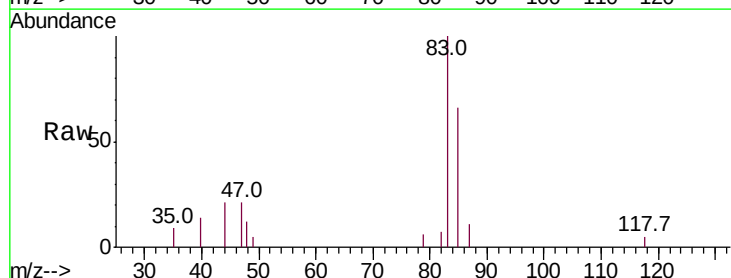
Acq: 27 Sep 2018 9:22

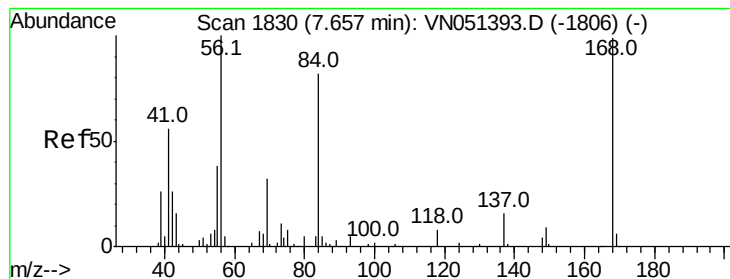
Tgt Ion: 83 Resp: 9676

Ion Ratio Lower Upper

83 100

85 66.5 51.8 77.6





#31

Cyclohexane

Concen: 0.953 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

Instrument :

MSVOA_N

ClientSampleId :

SU-02-092418-B

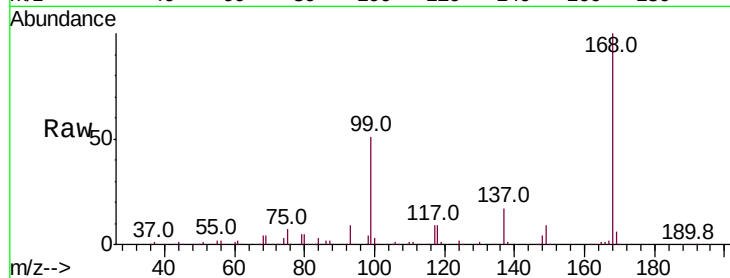
Tot Ion: 56 Resp: 11946

Ion Ratio Lower Upper

56 100

69 205.5 25.8 38.6#

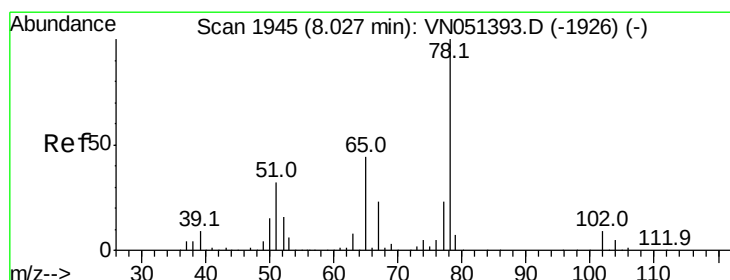
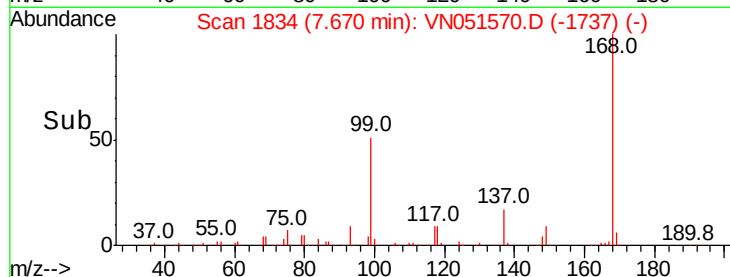
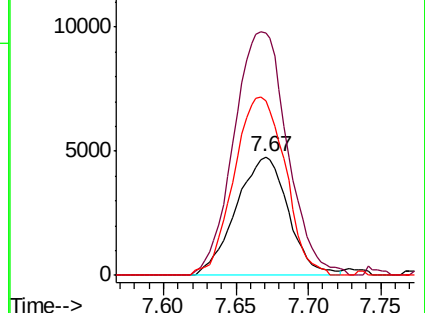
84 147.9 66.0 99.0#



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: 56.938 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051570.D

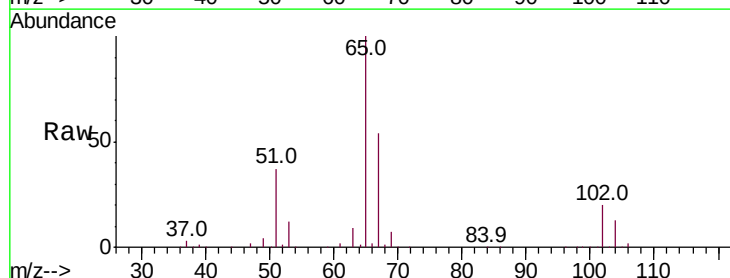
Acq: 27 Sep 2018 9:22

Tgt Ion: 65 Resp: 453420

Ion Ratio Lower Upper

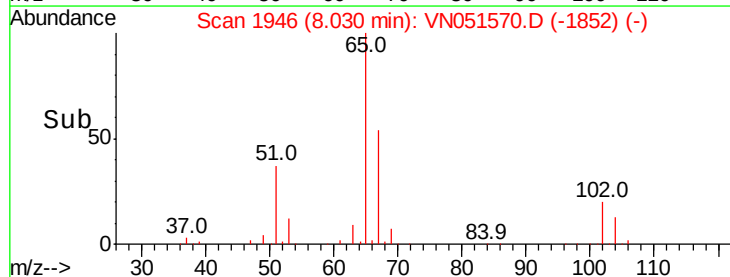
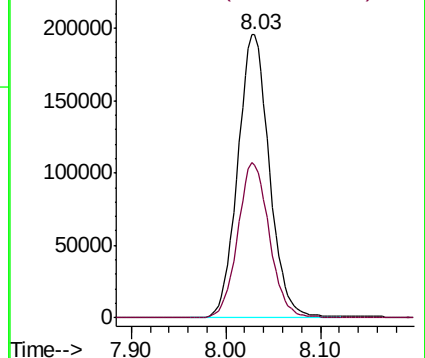
65 100

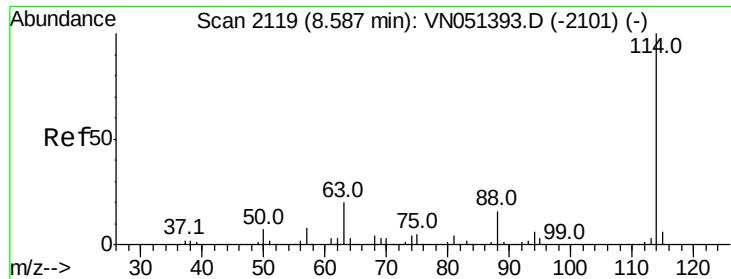
67 54.8 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

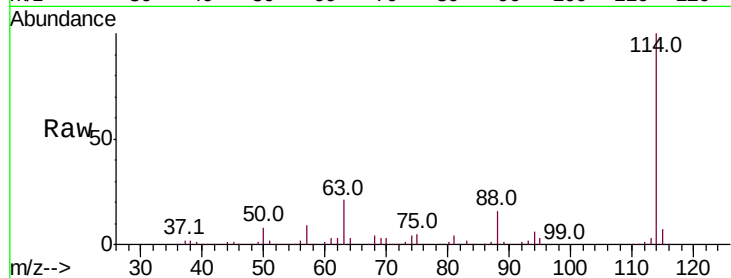




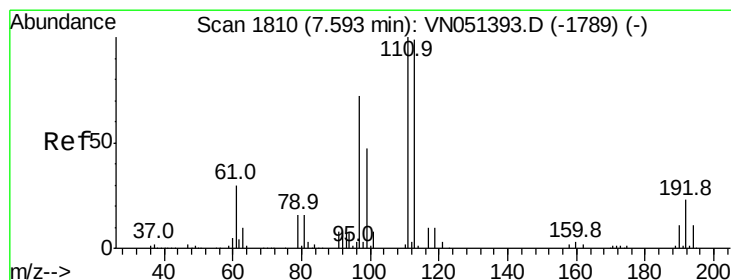
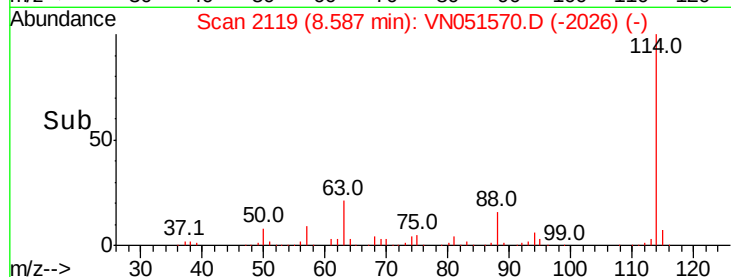
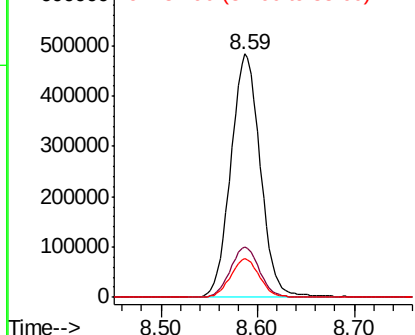
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051570.D
 Acq: 27 Sep 2018 9:22

Instrument :
 MSVOA_N
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 SU-02-092418-B

Tot Ion:114 Resp: 1025435
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.2
 88 15.8 0.0 31.4

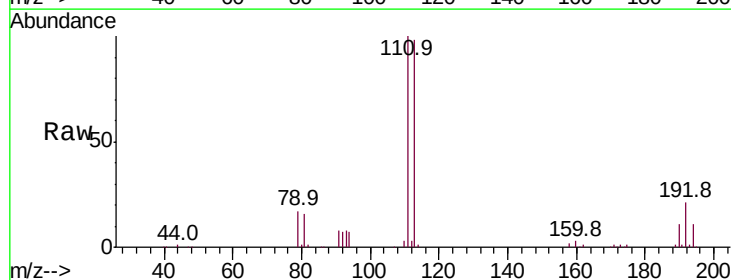


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

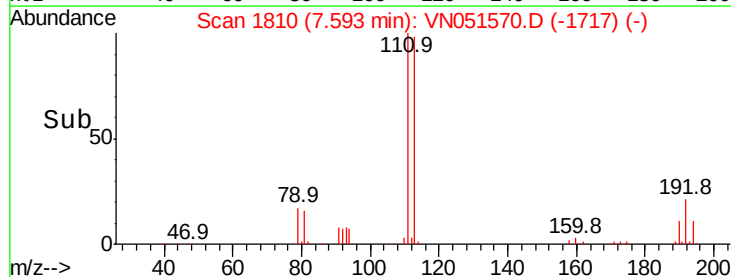
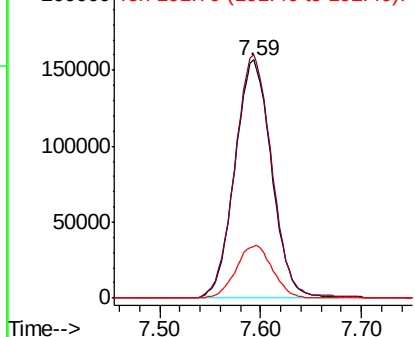


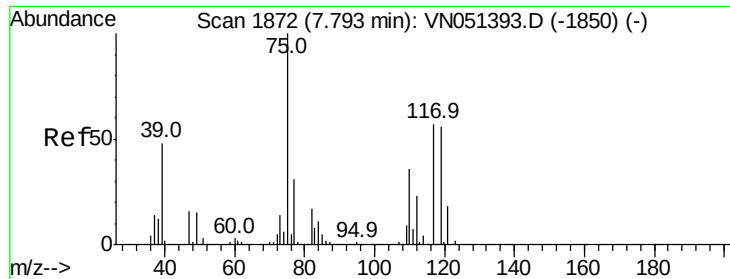
#35
 Dibromofluoromethane
 Concen: 48.258 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051570.D
 Acq: 27 Sep 2018 9:22

Tgt Ion:113 Resp: 395715
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.6 123.8
 192 22.0 18.0 27.0



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: 3.959 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

Instrument :

MSVOA_N

ClientSampleId :

SU-02-092418-B

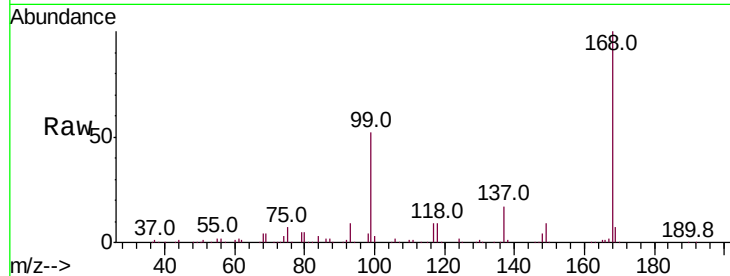
Tot Ion: 75 Resp: 47015

Ion Ratio Lower Upper

75 100

110 8.2 18.1 54.3#

77 0.0 25.6 38.4#

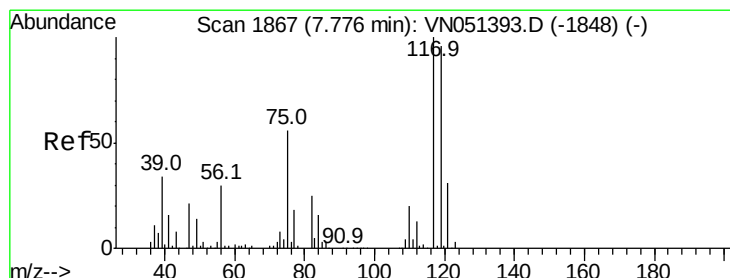
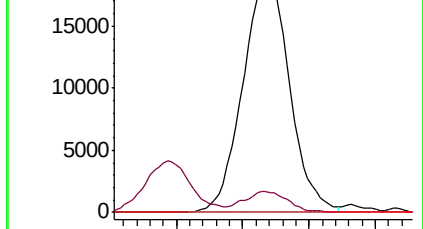
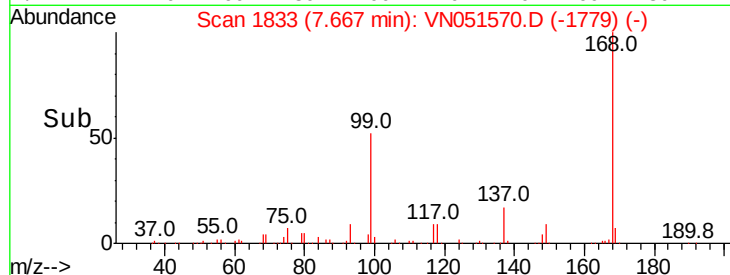


Abundance Ion 74.90 (74.60 to 75.60): VN051393.D (-1850) (-)

Ion 109.90 (109.60 to 110.60): VN051393.D (-1850) (-)

Ion 76.90 (76.60 to 77.60): VN051393.D (-1850) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.527 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

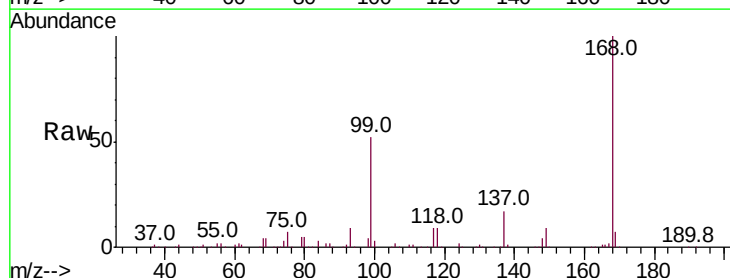
Tgt Ion: 117 Resp: 56229

Ion Ratio Lower Upper

117 100

119 5.4 76.9 115.3#

121 0.0 24.6 37.0#

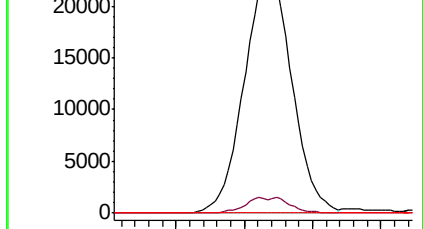
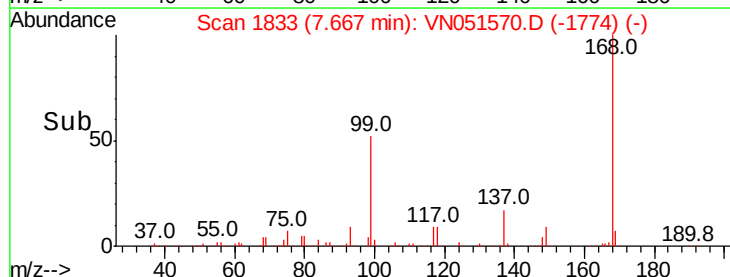


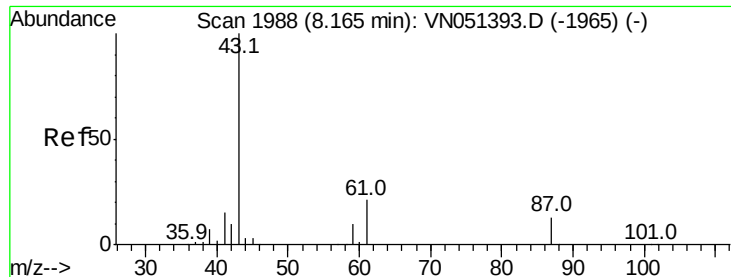
Abundance Ion 116.80 (116.50 to 117.50): VN051393.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN051393.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN051393.D (-1848) (-)

Time-->





#43

Isopropyl Acetate

Concen: 21.178 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

Instrument :

MSVOA_N

ClientSampleId :

SU-02-092418-B

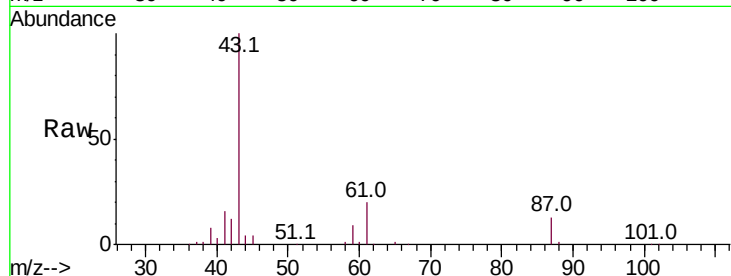
Tot Ion: 43 Resp: 261466

Ion Ratio Lower Upper

43 100

61 18.1 16.8 25.2

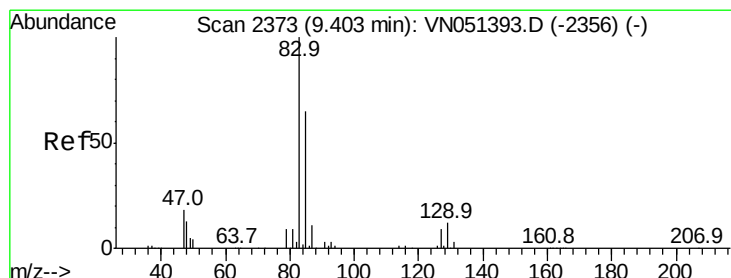
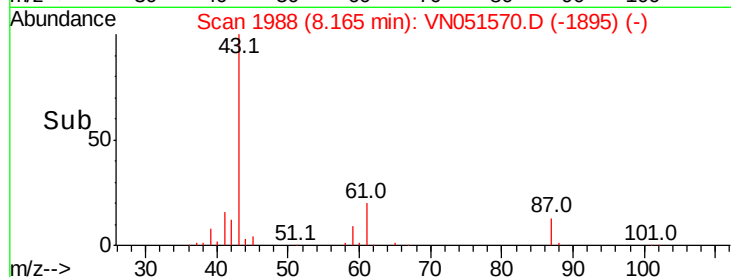
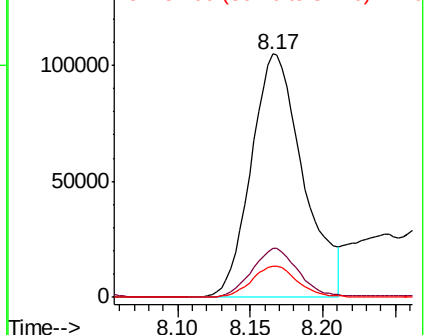
87 11.4 10.7 16.1



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



#47

Bromodichloromethane

Concen: 0.246 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

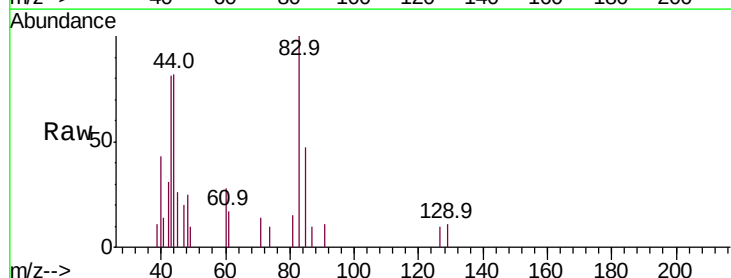
Tgt Ion: 83 Resp: 2919

Ion Ratio Lower Upper

83 100

85 47.4 51.8 77.6#

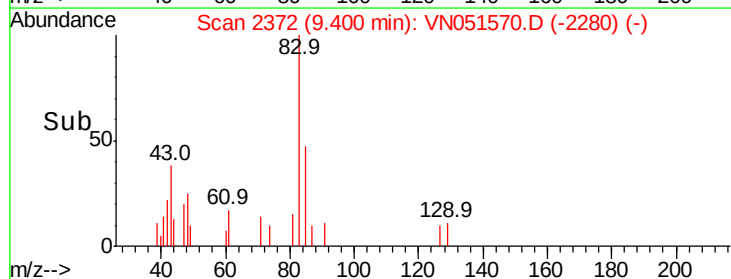
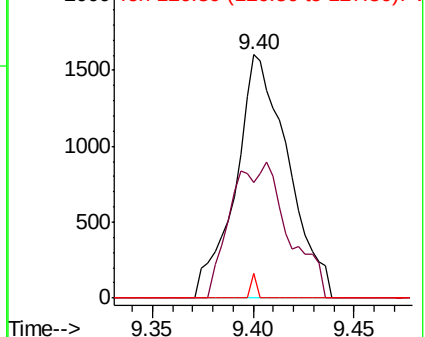
127 10.2 7.4 11.2

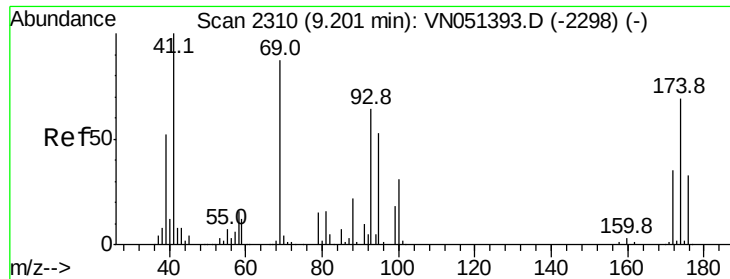


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): V





#48

Methvl methacrylate

Concen: 1.112 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

Instrument :

MSVOA_N

ClientSampleId :

SU-02-092418-B

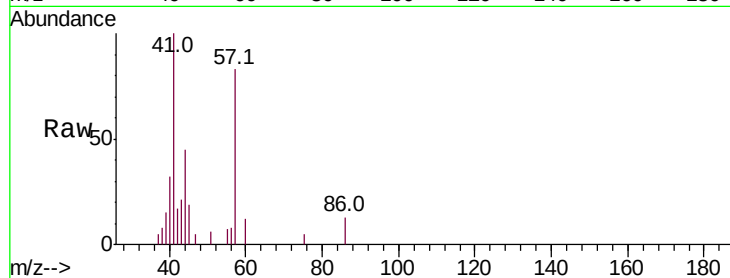
Tot Ion: 41 Resp: 6846

Ion Ratio Lower Upper

41 100

69 0.0 70.4 105.6#

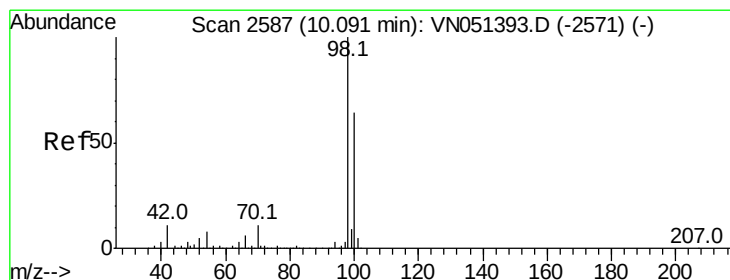
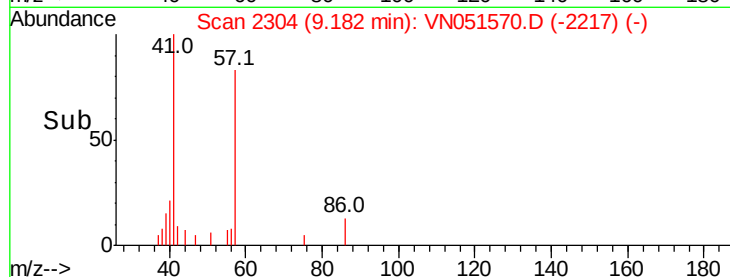
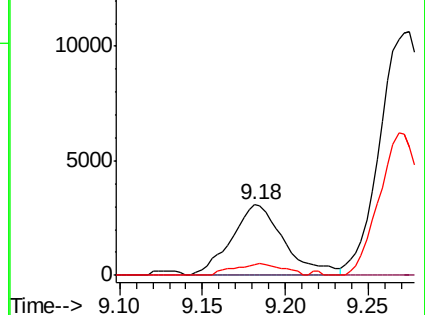
39 15.0 43.8 65.8#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO



#50

Toluene-d8

Concen: 46.657 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051570.D

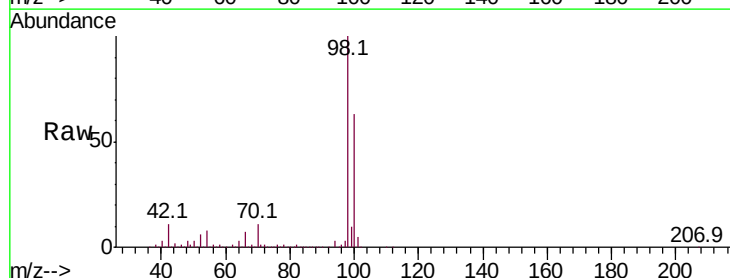
Acq: 27 Sep 2018 9:22

Tgt Ion: 98 Resp: 1440691

Ion Ratio Lower Upper

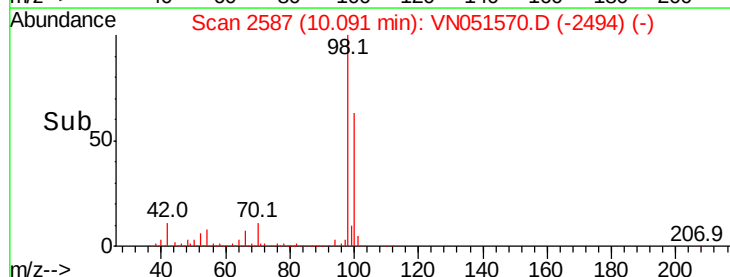
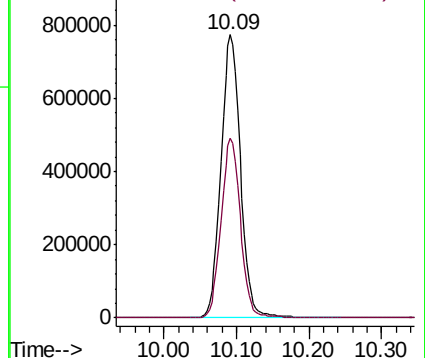
98 100

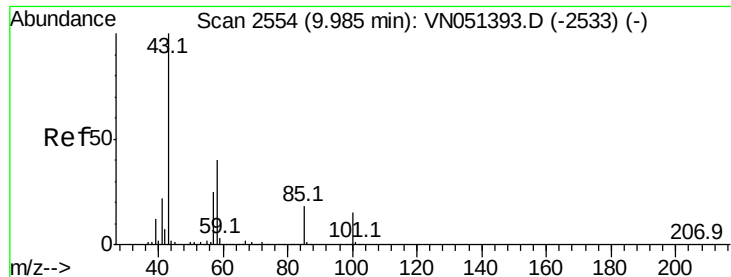
100 63.1 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VNO

Ion 100.00 (99.70 to 100.70): VNO





#51

4-Methyl-2-Pentanone

Concen: 0.322 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

Instrument :

MSVOA_N

ClientSampleId :

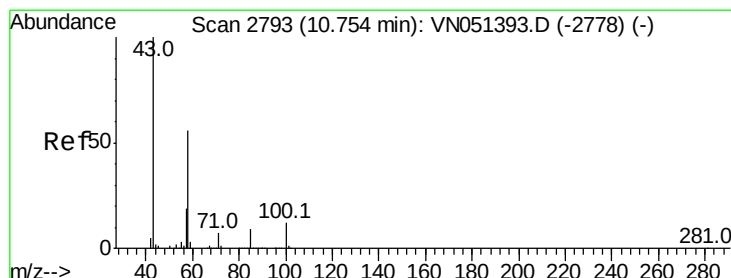
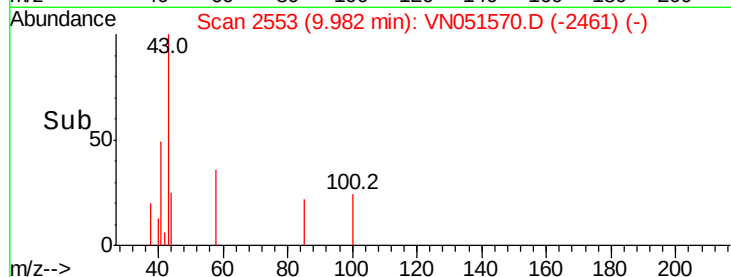
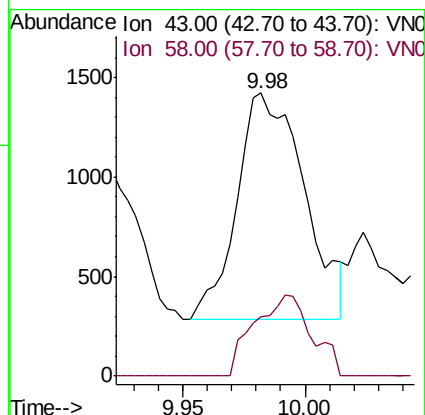
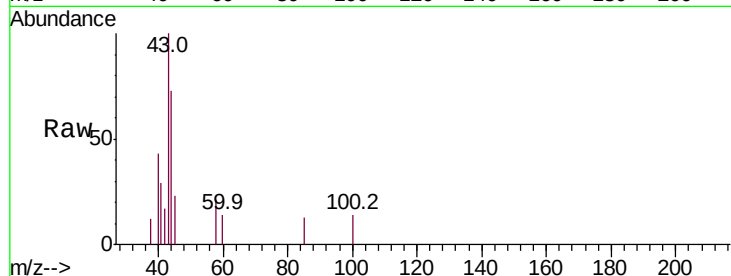
SU-02-092418-B

Tot Ion: 43 Resp: 2185

Ion Ratio Lower Upper

43 100

58 30.4 31.5 47.3#



#59

2-Hexanone

Concen: 3.375 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051570.D

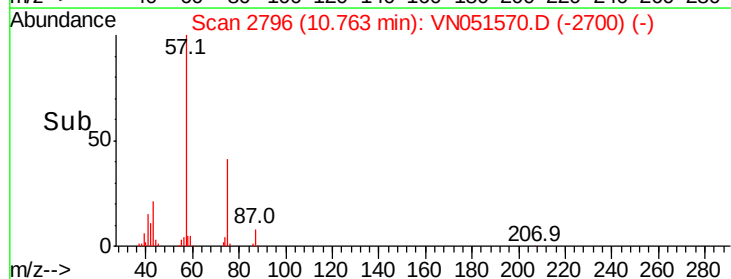
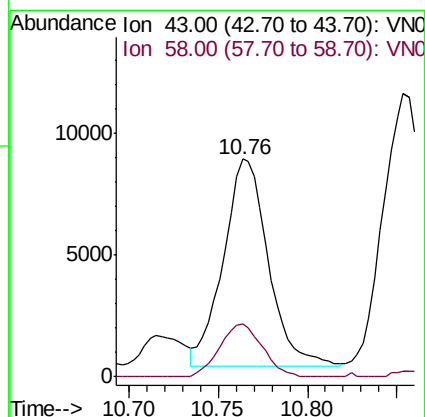
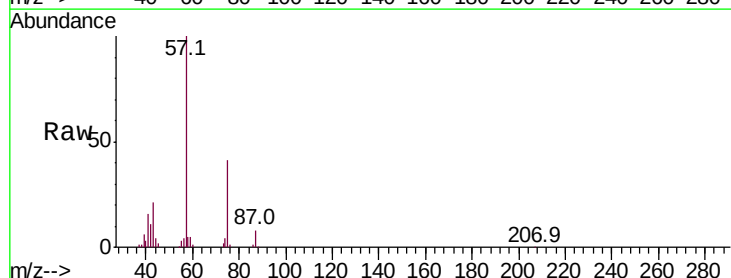
Acq: 27 Sep 2018 9:22

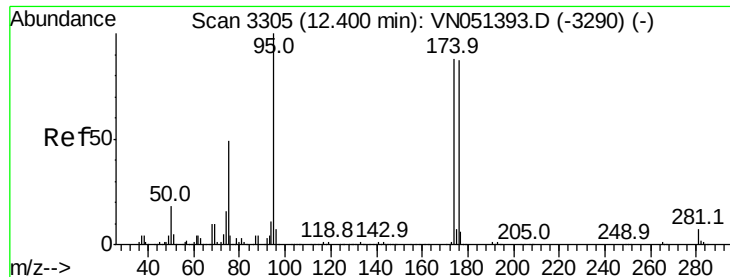
Tgt Ion: 43 Resp: 14856

Ion Ratio Lower Upper

43 100

58 24.3 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 39.957 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

Instrument :

MSVOA_N

ClientSampleId :

SU-02-092418-B

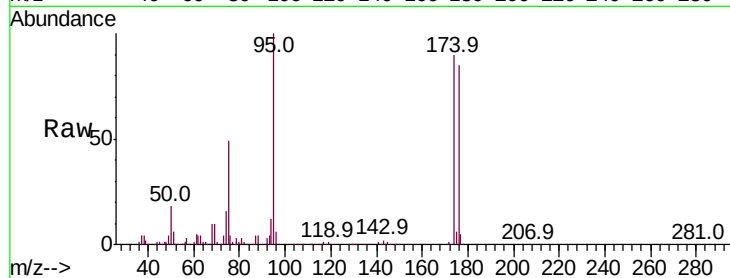
Tot Ion: 95 Resp: 399129

Ion Ratio Lower Upper

95 100

174 89.3 0.0 181.6

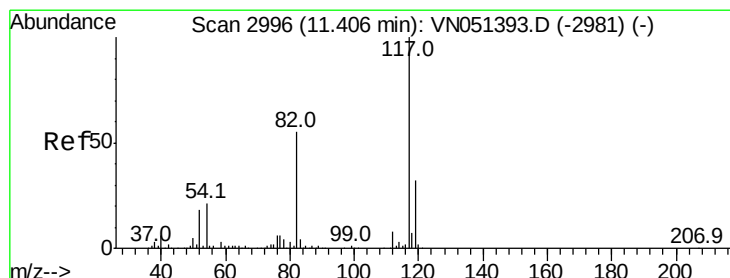
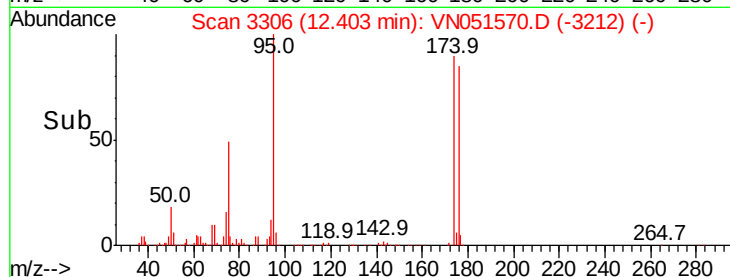
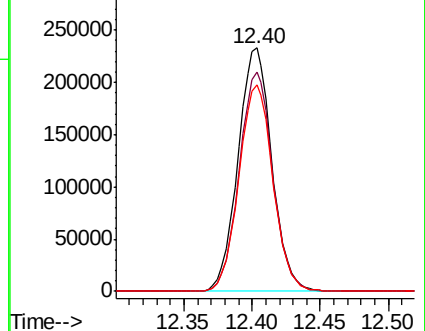
176 85.6 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

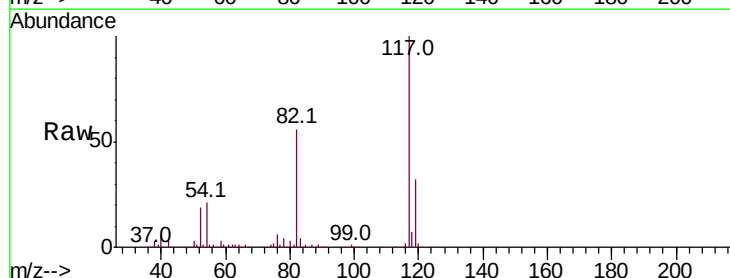
Tgt Ion: 117 Resp: 871415

Ion Ratio Lower Upper

117 100

82 56.0 44.2 66.2

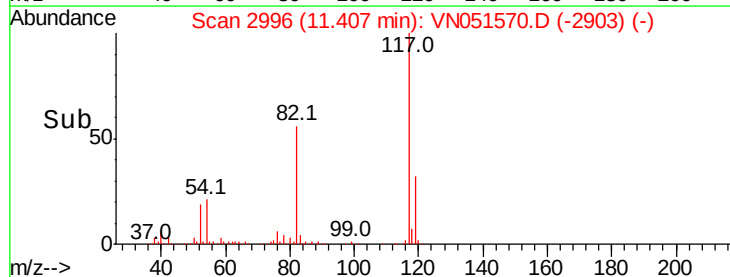
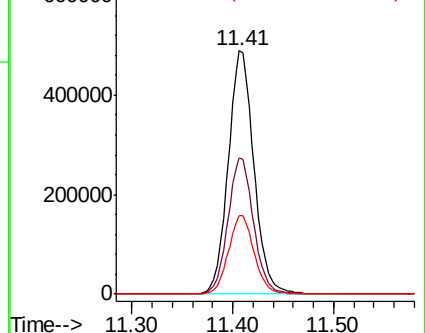
119 32.2 25.9 38.9

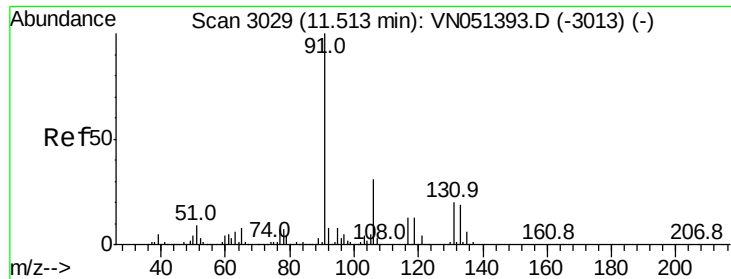


Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051393.D (-2981) (-)





#67

Ethyl Benzene

Concen: 0.297 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

Instrument :

MSVOA_N

ClientSampleId :

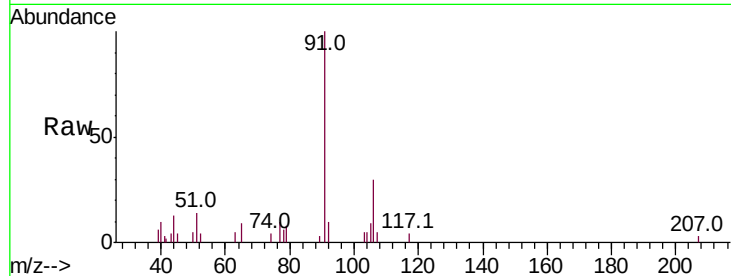
SU-02-092418-B

Tot Ion: 91 Resp: 11206

Ion Ratio Lower Upper

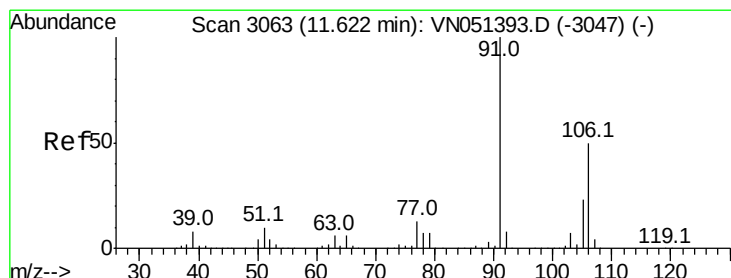
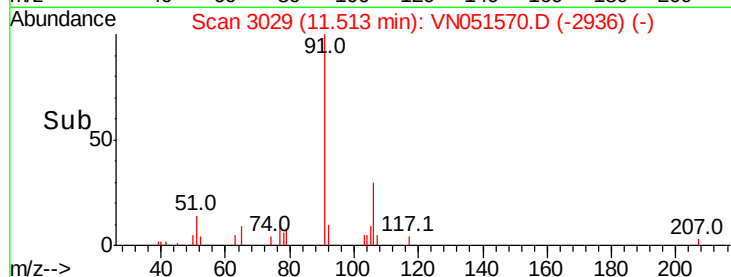
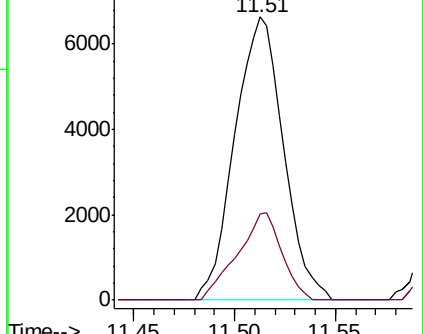
91 100

106 30.4 25.0 37.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 0.855 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.01 min

Lab File: VN051570.D

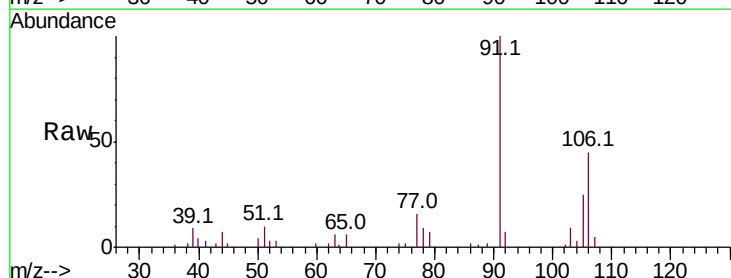
Acq: 27 Sep 2018 9:22

Tgt Ion:106 Resp: 12459

Ion Ratio Lower Upper

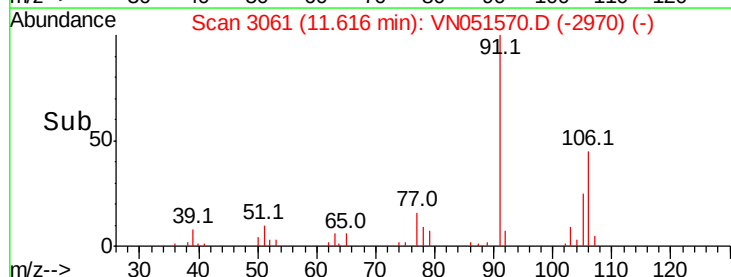
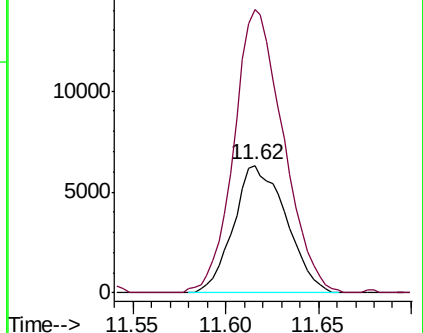
106 100

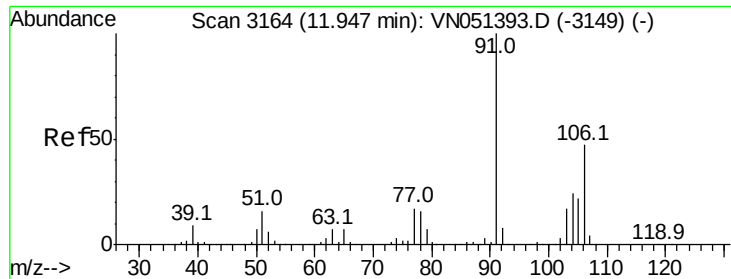
91 208.9 161.3 241.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

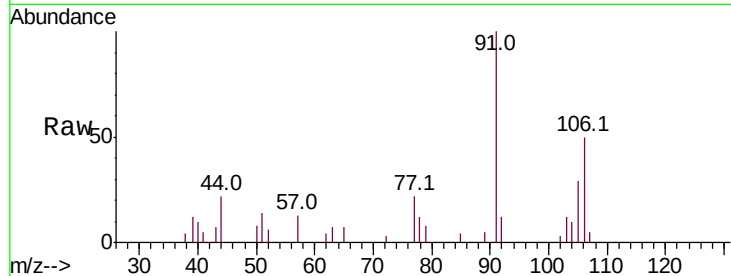




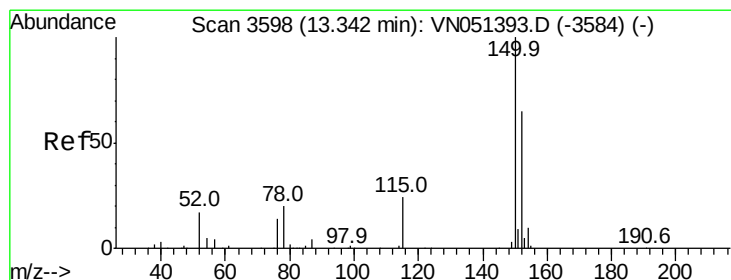
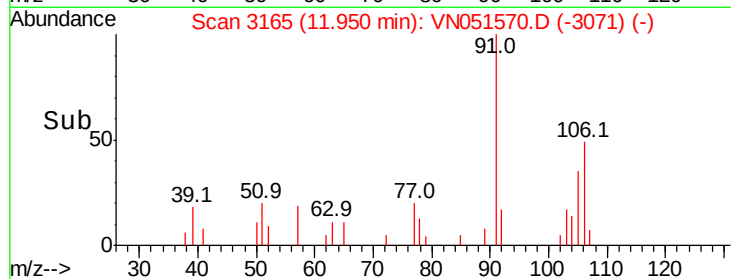
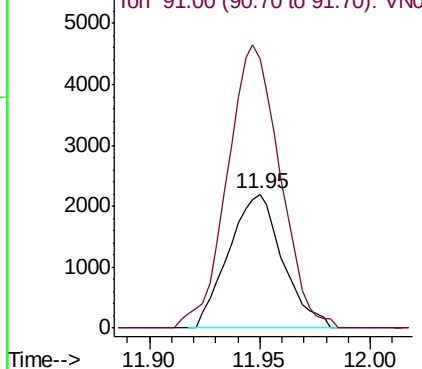
#69
o-Xylene
Concen: 0.267 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN051570.D
Acq: 27 Sep 2018 9:22

Instrument :
MSVOA_N
ClientSampled :
SU-02-092418-B

Tot Ion:106 Resp: 3738
Ion Ratio Lower Upper
106 100
91 205.5 105.3 315.9

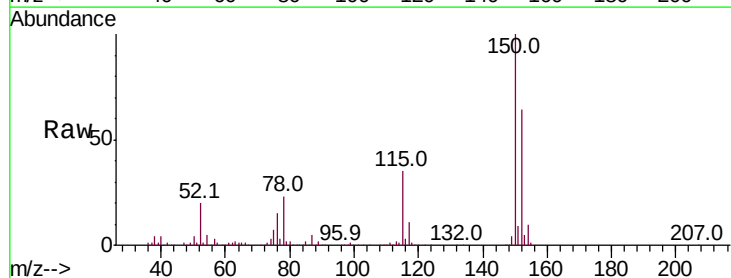


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

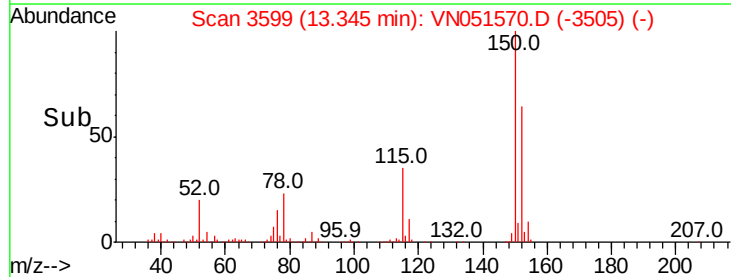
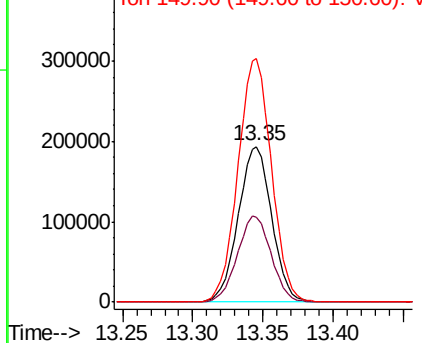


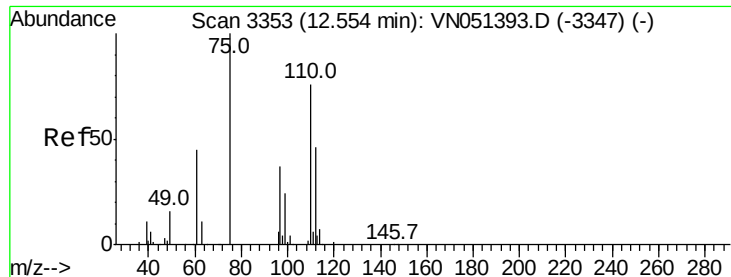
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051570.D
Acq: 27 Sep 2018 9:22

Tgt Ion:152 Resp: 321680
Ion Ratio Lower Upper
152 100
115 55.9 28.3 84.9
150 157.0 0.0 353.6



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: 36.195 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

Instrument :

MSVOA_N

ClientSampleId :

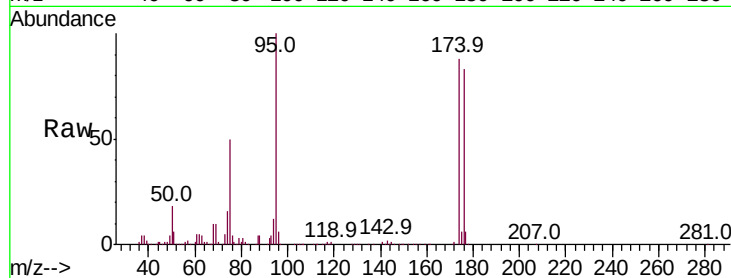
SU-02-092418-B

Tot Ion: 75 Resp: 193284

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

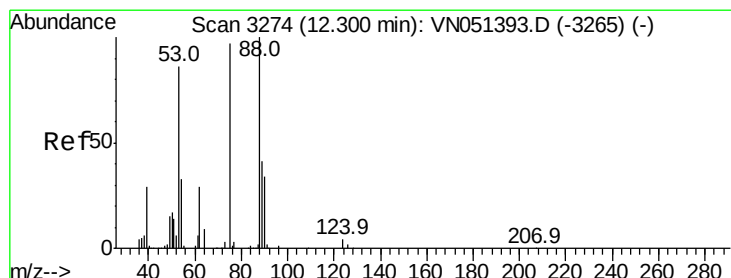
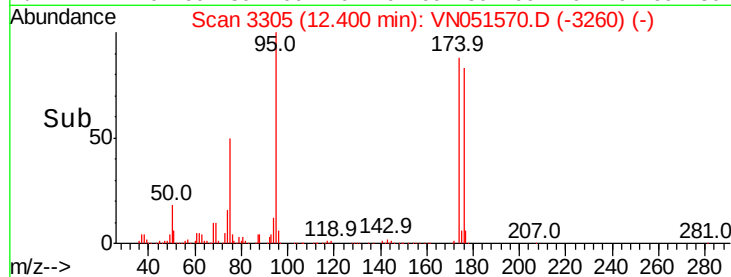
12.40

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 111.297 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

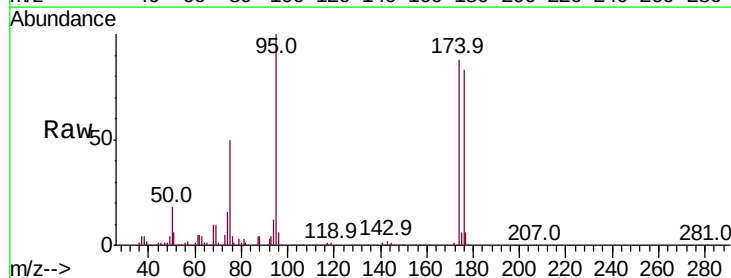
Tgt Ion: 75 Resp: 193284

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

89 0.0 36.7 55.1#



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

12.40

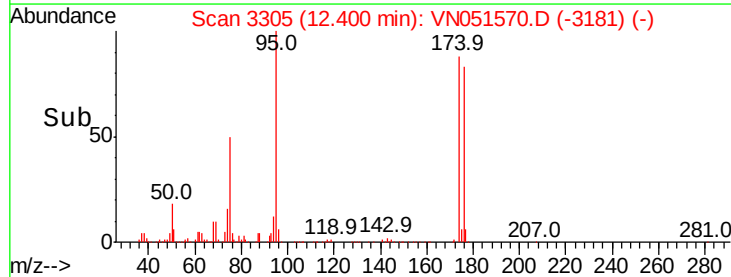
150000

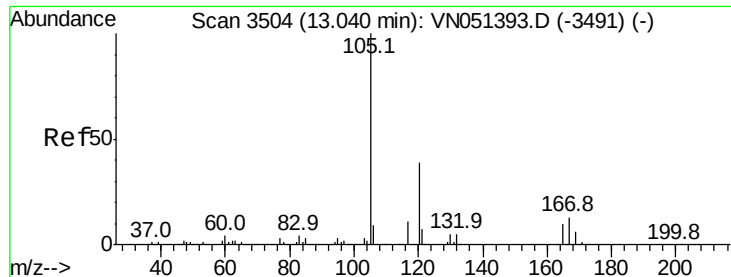
100000

50000

0

Time-->





#84

1,2,4-Trimethylbenzene

Concen: 0.485 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

Instrument :

MSVOA_N

ClientSampleId :

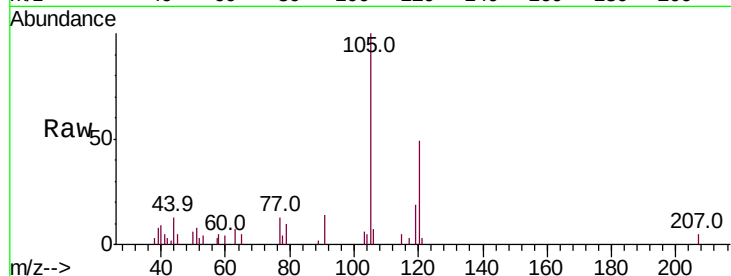
SU-02-092418-B

Tot Ion:105 Resp: 10821

Ion Ratio Lower Upper

105 100

120 46.8 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

8000

6000

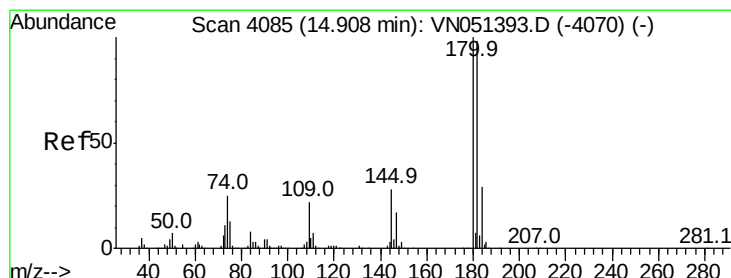
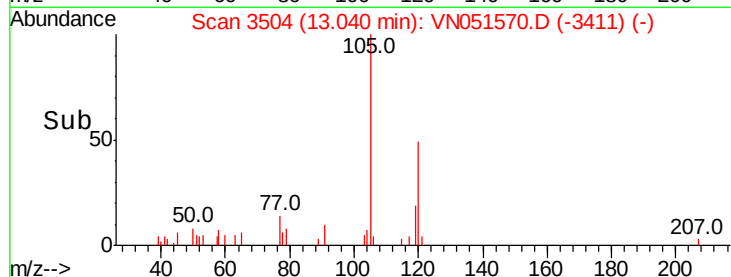
4000

2000

0

13.00 13.05

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 5.995 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

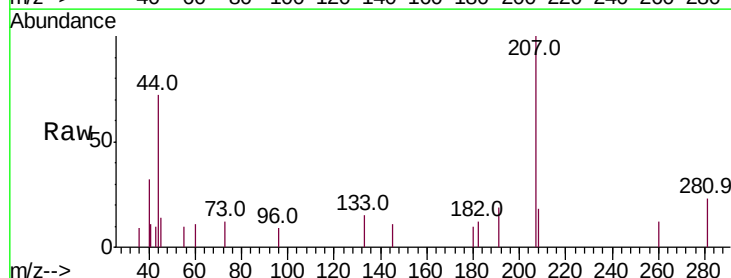
Tgt Ion:180 Resp: 91

Ion Ratio Lower Upper

180 100

182 112.1 48.5 145.6

145 114.3 14.1 42.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

250

200

150

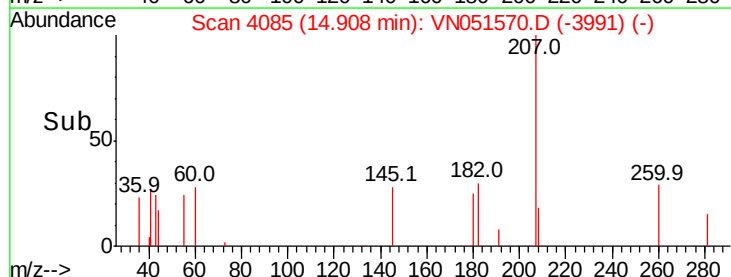
100

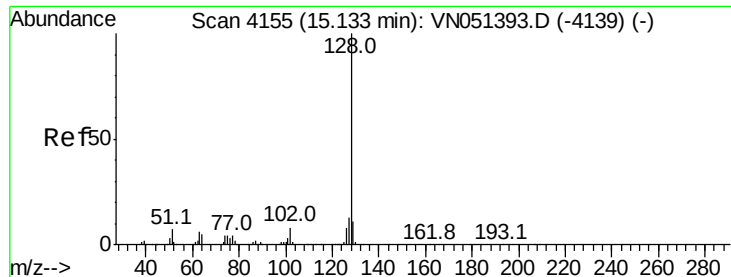
50

0

14.89 14.90 14.91 14.92

Time-->





#95

Naphthalene

Concen: 10.422 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051570.D

Acq: 27 Sep 2018 9:22

Instrument :

MSVOA_N

ClientSampleId :

SU-02-092418-B

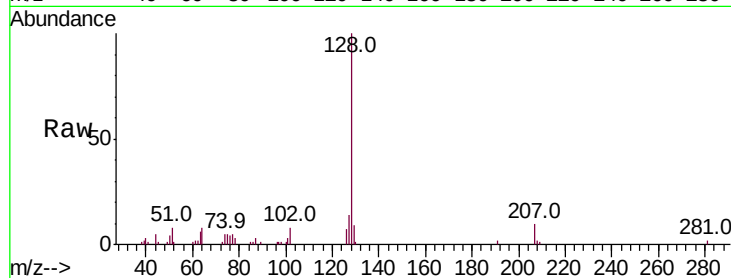
Tot Ion:128 Resp: 33888

Ion Ratio Lower Upper

128 100

127 13.6 10.5 15.7

129 10.3 8.6 12.8



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

