

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051569.D
 Acq On : 27 Sep 2018 8:57
 Operator : MD\SY
 Sample : J4779-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 1

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

Quant Time: Sep 27 11:21:55 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	650347	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1041135	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	862709	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	295148	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	459177	56.36	ug/l	0.00
Spiked Amount			Recovery	=	112.72%	
35) Dibromofluoromethane	7.59	113	400449	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
50) Toluene-d8	10.09	98	1464171	46.70	ug/l	0.00
Spiked Amount			Recovery	=	93.40%	
62) 4-Bromofluorobenzene	12.40	95	384757	37.94	ug/l	0.00
Spiked Amount			Recovery	=	75.88%	

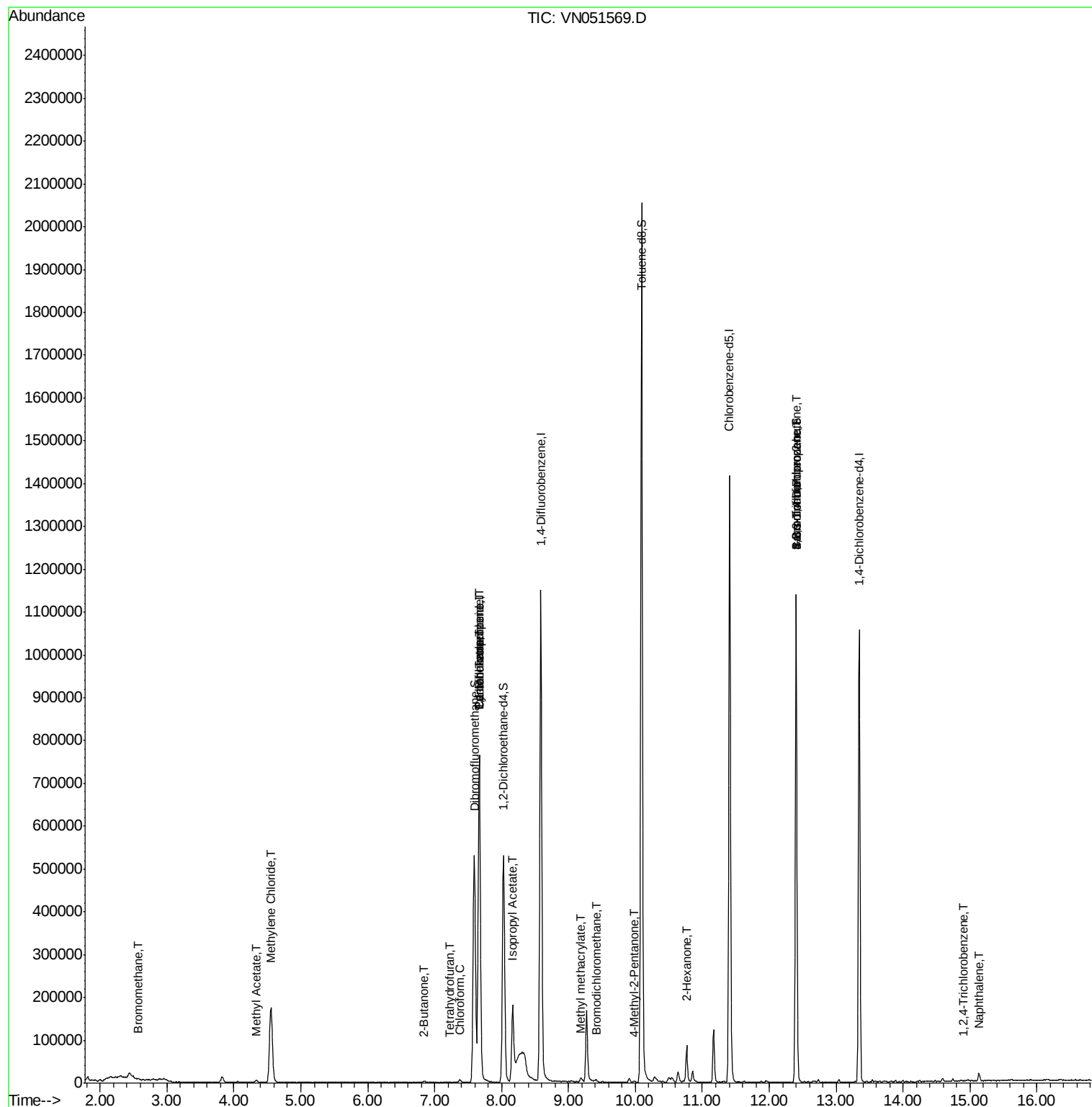
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1579	0.306	ug/l	85
16) Acetone	3.82	43	21661	Below Cal		96
18) Methyl Acetate	4.33	43	9750	1.571	ug/l	92
20) Methylene Chloride	4.55	84	130238	16.155	ug/l	97
25) 2-Butanone	6.84	43	1644	0.590	ug/l #	87
29) Tetrahydrofuran	7.22	42	1283	0.726	ug/l #	51
30) Chloroform	7.37	83	6814	0.491	ug/l	97
31) Cyclohexane	7.67	56	13056	1.018	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	47994	3.981	ug/l #	48
38) Carbon Tetrachloride	7.67	117	59191	4.694	ug/l #	17
43) Isopropyl Acetate	8.17	43	230538	18.391	ug/l	94
47) Bromodichloromethane	9.41	83	2426	0.202	ug/l #	85
48) Methyl methacrylate	9.18	41	6442	1.031	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	1556	0.226	ug/l #	86
59) 2-Hexanone	10.76	43	12717	2.846	ug/l #	58
71) Bromoform	12.40	173	3354	0.586	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	187847	38.339	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	187847	117.889	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	403	6.044	ug/l #	48
95) Naphthalene	15.13	128	16446	9.302	ug/l	97

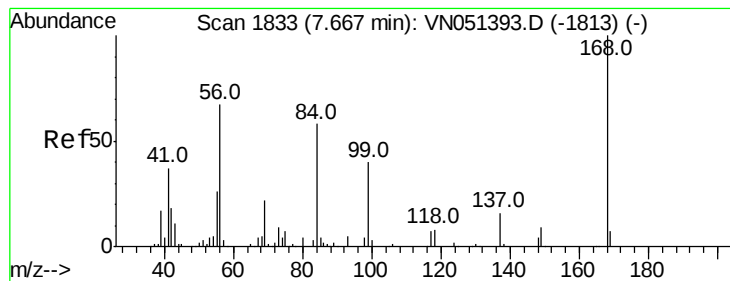
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051569.D

Acq: 27 Sep 2018 8:57

Instrument :

MSVOA_N

ClientSampleId :

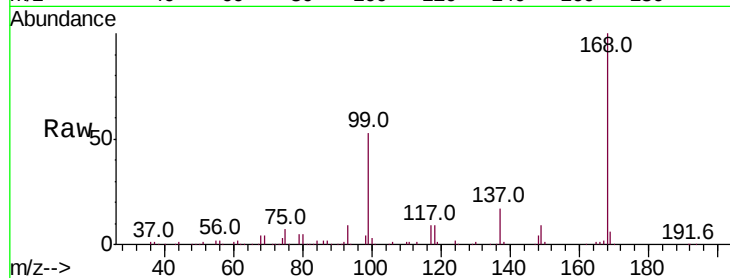
SU-02-092418-A

Tot Ion:168 Resp: 650347

Ion Ratio Lower Upper

168 100

99 53.2 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

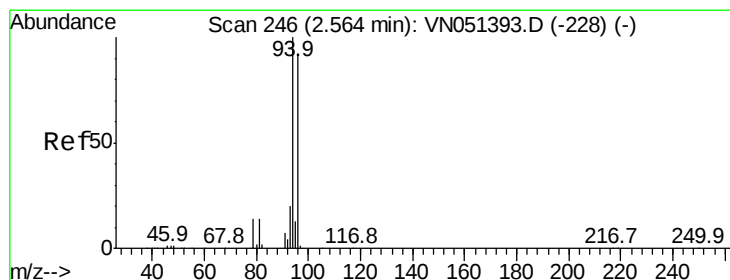
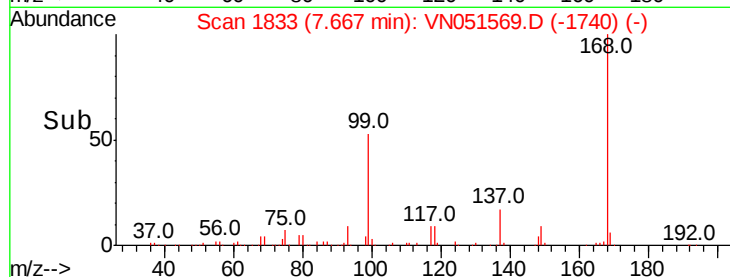
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.306 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051569.D

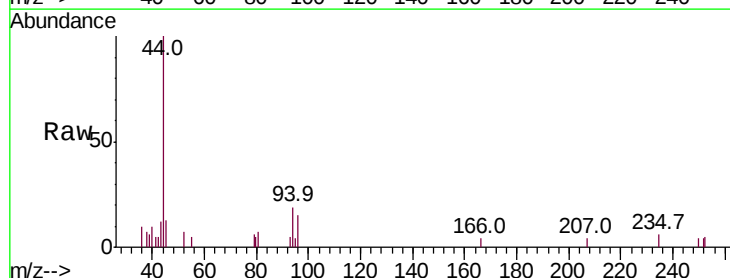
Acq: 27 Sep 2018 8:57

Tgt Ion: 94 Resp: 1579

Ion Ratio Lower Upper

94 100

96 77.4 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.57

800

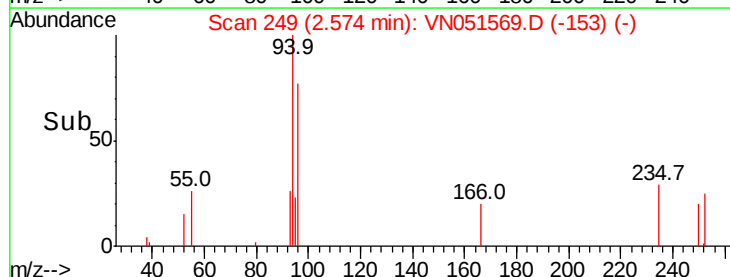
600

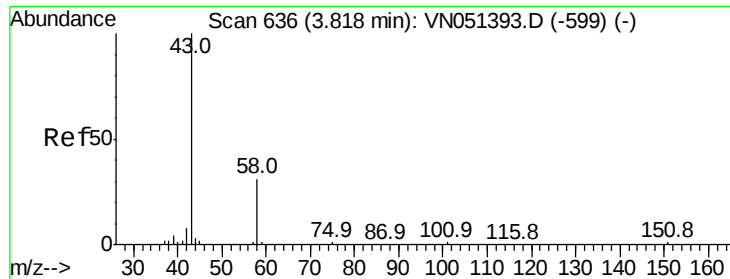
400

200

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051569.D

Acq: 27 Sep 2018 8:57

Instrument :

MSVOA_N

ClientSampleId :

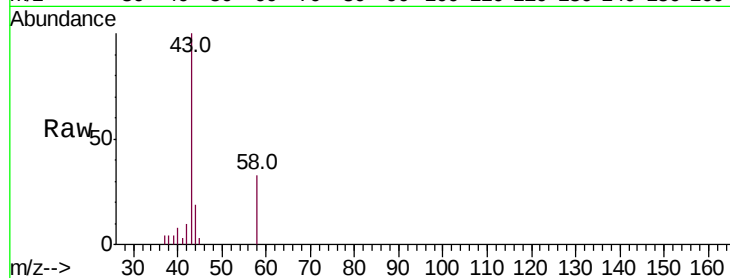
SU-02-092418-A

Tot Ion: 43 Resp: 21661

Ion Ratio Lower Upper

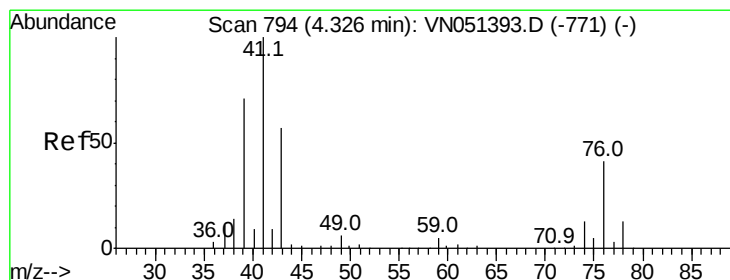
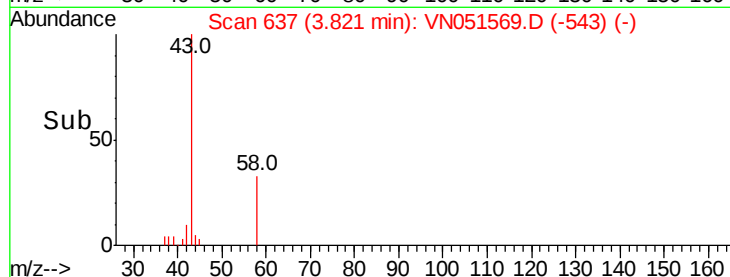
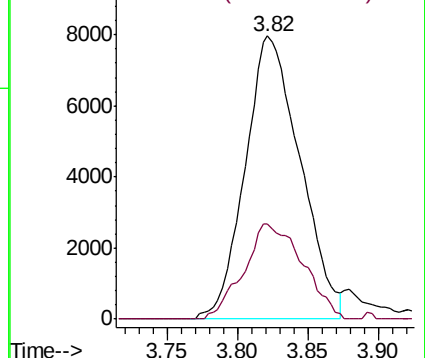
43 100

58 33.4 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.571 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051569.D

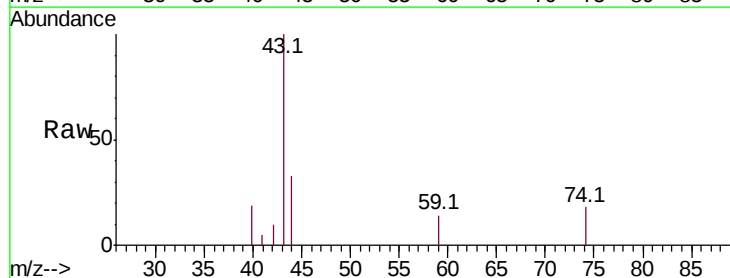
Acq: 27 Sep 2018 8:57

Tgt Ion: 43 Resp: 9750

Ion Ratio Lower Upper

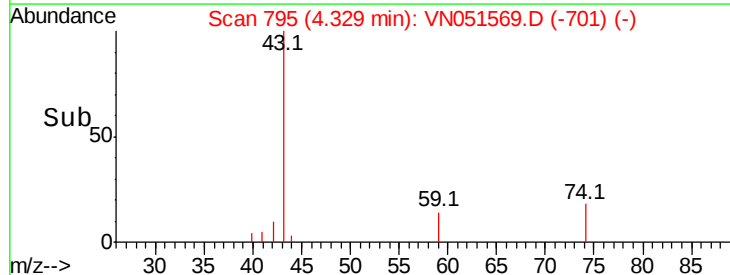
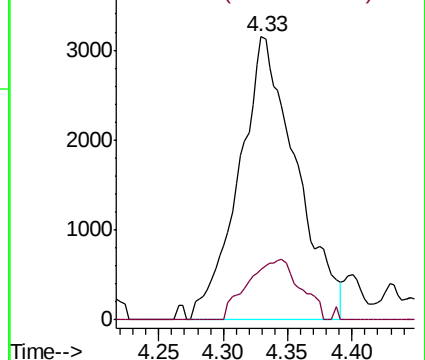
43 100

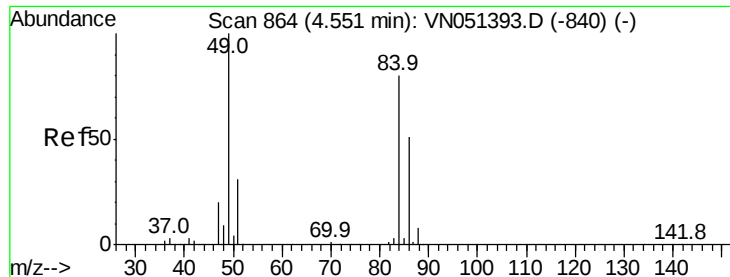
74 19.5 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

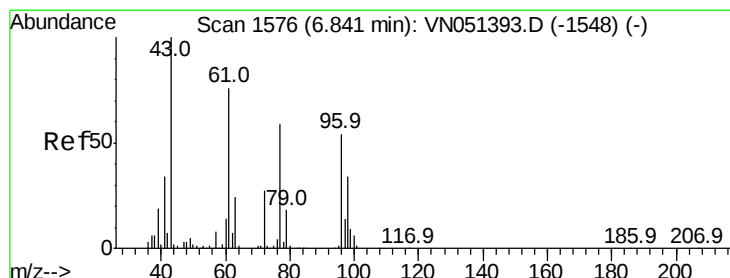
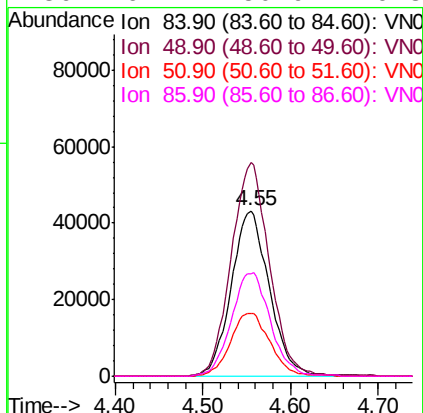
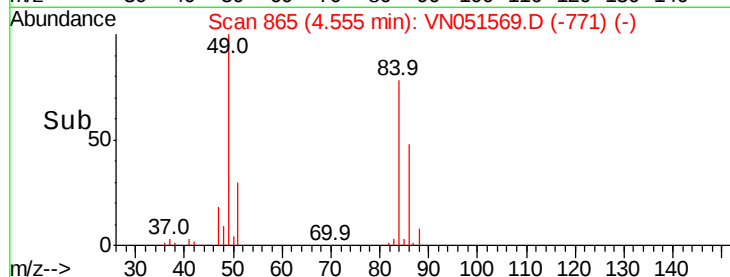
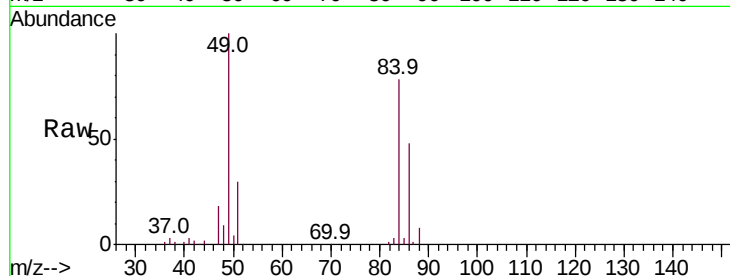




#20
Methvlene Chloride
Concen: 16.155 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051569.D
Acq: 27 Sep 2018 8:57

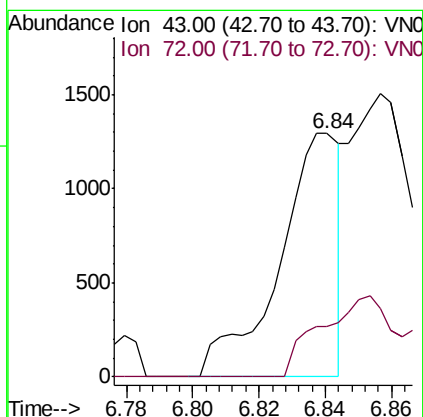
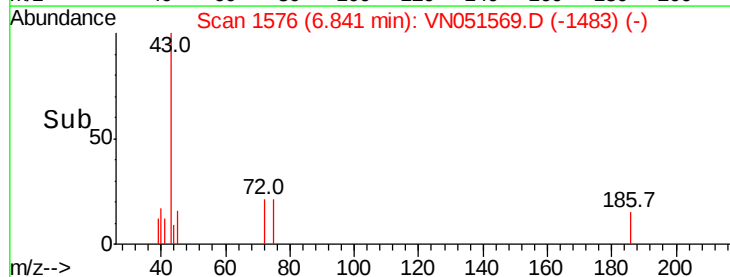
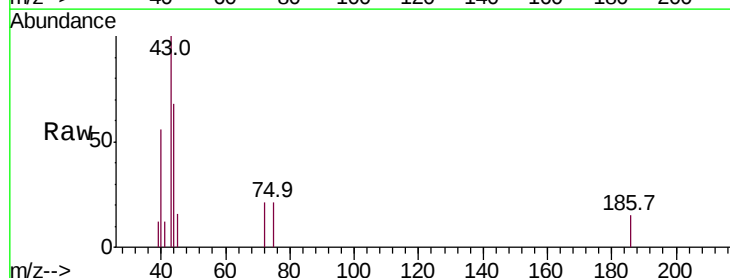
Instrument :
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SU-02-092418-A

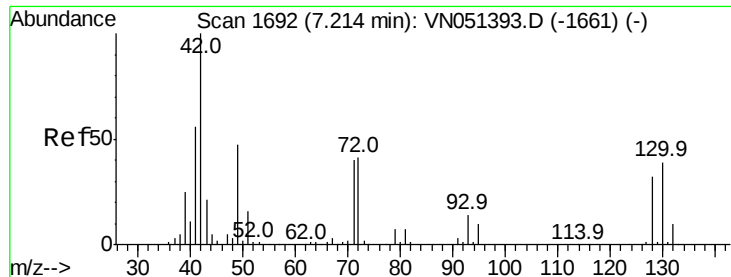
Tot Ion: 84 Resp: 130238
Ion Ratio Lower Upper
84 100
49 128.9 99.9 149.9
51 38.2 31.4 47.2
86 62.2 50.9 76.3



#25
2-Butanone
Concen: 0.590 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. -0.00 min
Lab File: VN051569.D
Acq: 27 Sep 2018 8:57

Tgt Ion: 43 Resp: 1644
Ion Ratio Lower Upper
43 100
72 20.5 21.8 32.6#





#29

Tetrahydrofuran

Concen: 0.726 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN051569.D

Acq: 27 Sep 2018 8:57

Instrument :

MSVOA_N

ClientSampleId :

SU-02-092418-A

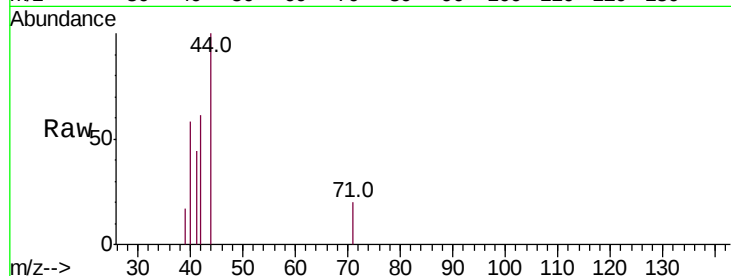
Tot Ion: 42 Resp: 1283

Ion Ratio Lower Upper

42 100

72 8.0 34.3 51.5#

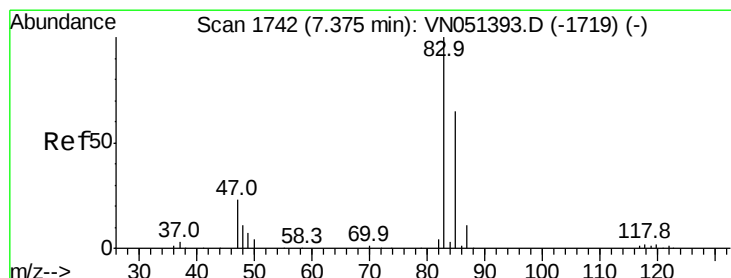
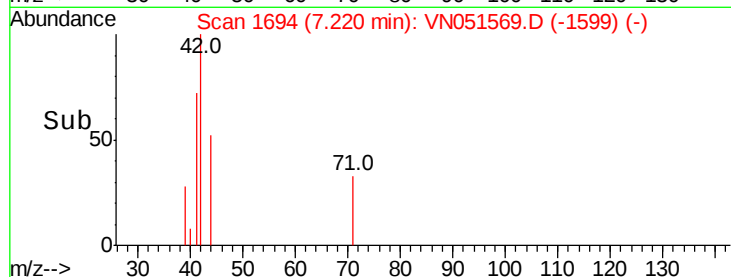
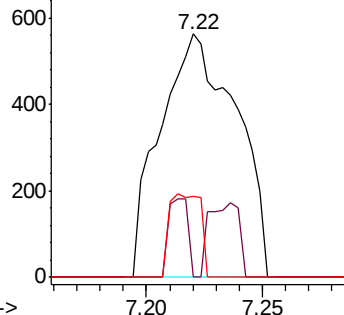
71 13.9 32.2 48.4#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#30

Chloroform

Concen: 0.491 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN051569.D

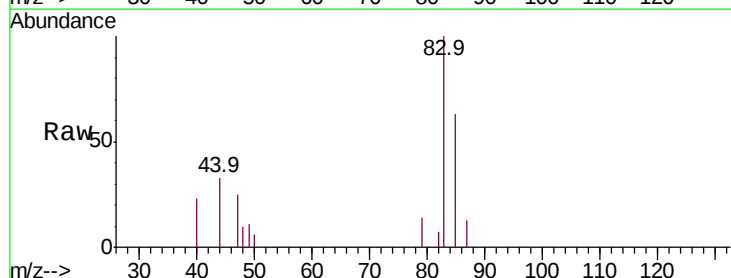
Acq: 27 Sep 2018 8:57

Tgt Ion: 83 Resp: 6814

Ion Ratio Lower Upper

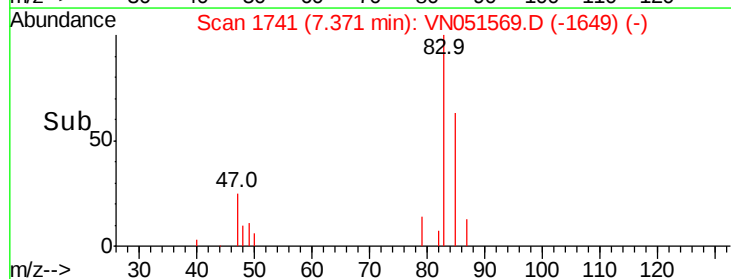
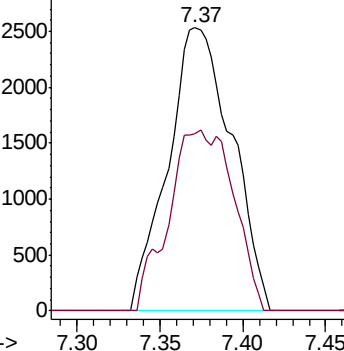
83 100

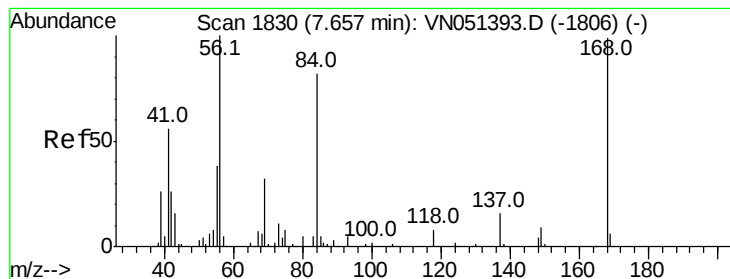
85 62.6 51.8 77.6



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 1.018 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051569.D

Acq: 27 Sep 2018 8:57

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ClientSampleId :

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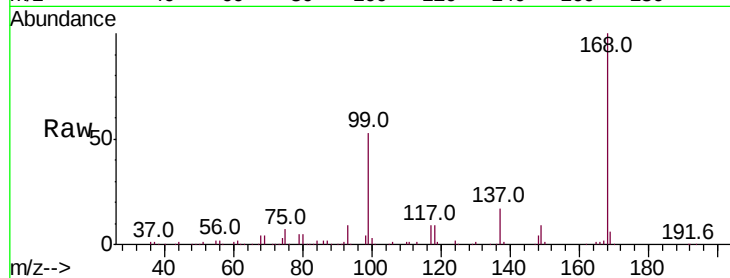
Tot Ion: 56 Resp: 13056

Ion Ratio Lower Upper

56 100

69 196.4 25.8 38.6#

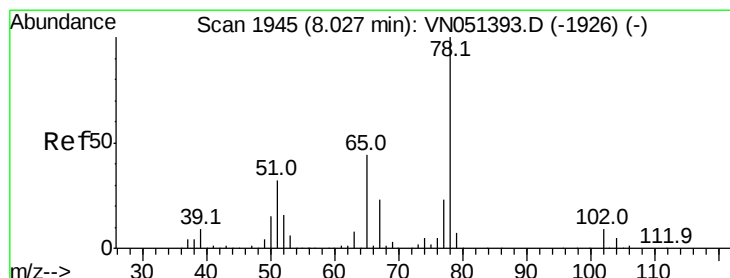
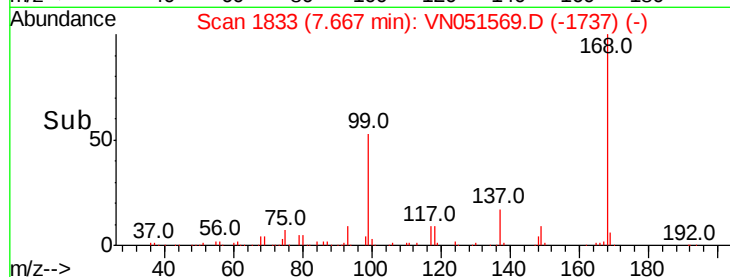
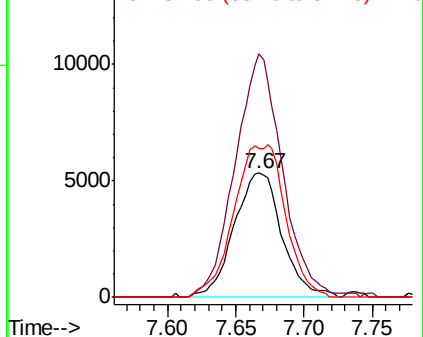
84 120.0 66.0 99.0#



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: 56.363 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051569.D

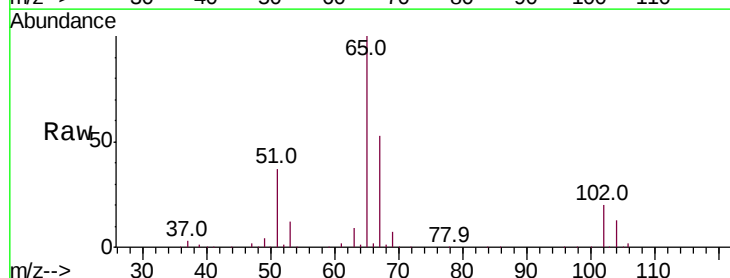
Acq: 27 Sep 2018 8:57

Tgt Ion: 65 Resp: 459177

Ion Ratio Lower Upper

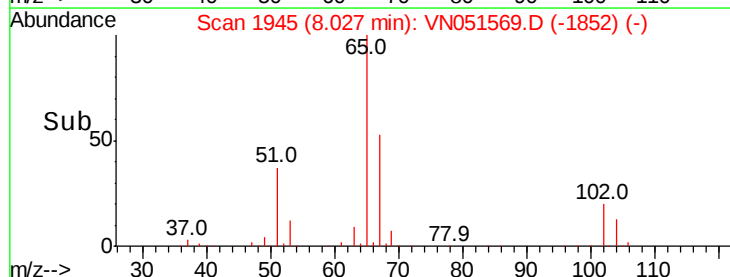
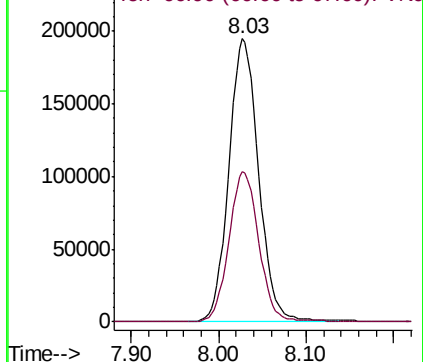
65 100

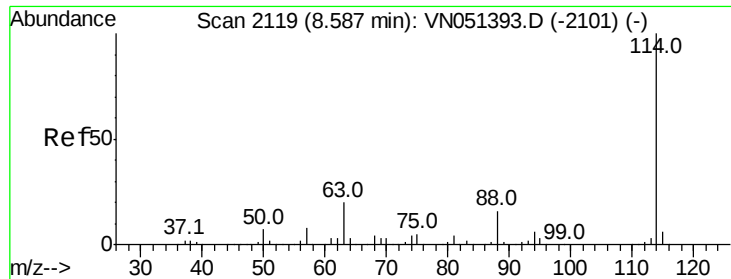
67 53.1 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

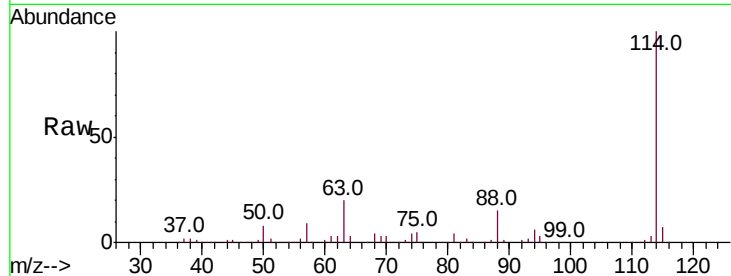




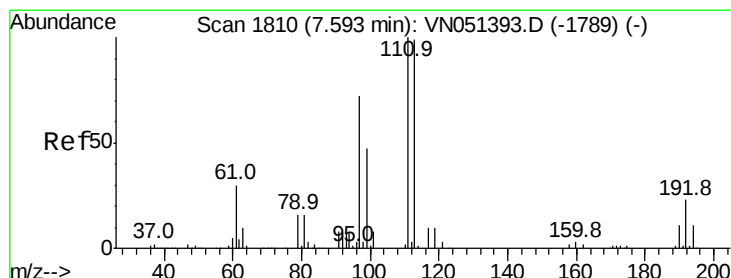
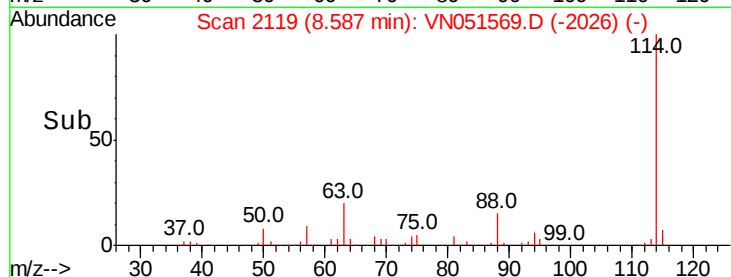
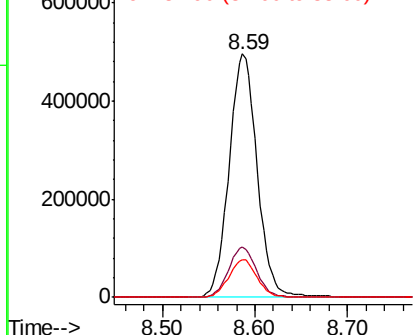
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051569.D
 Acq: 27 Sep 2018 8:57

Instrument :
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 SU-02-092418-A

Tot Ion:114 Resp: 1041135
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.2
 88 15.4 0.0 31.4

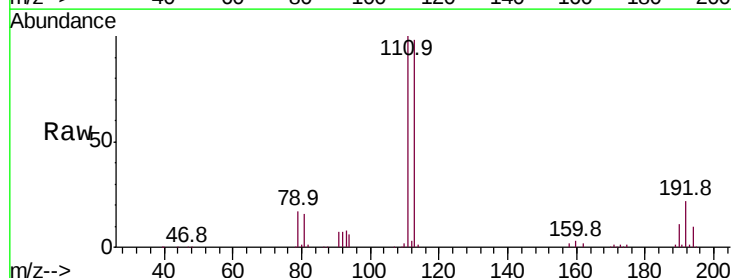


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

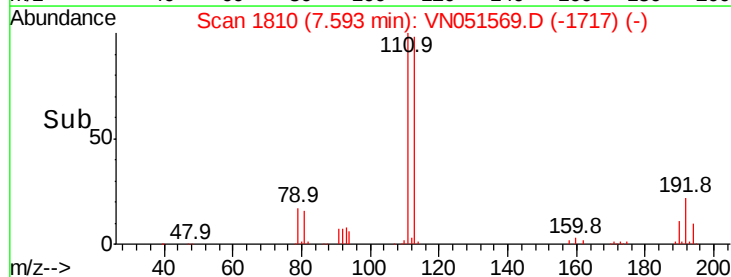
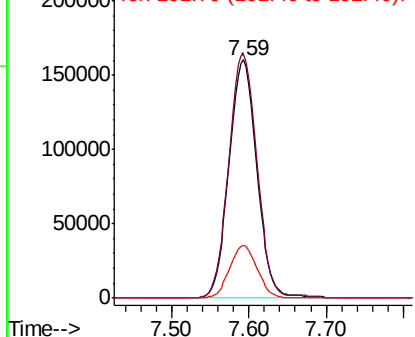


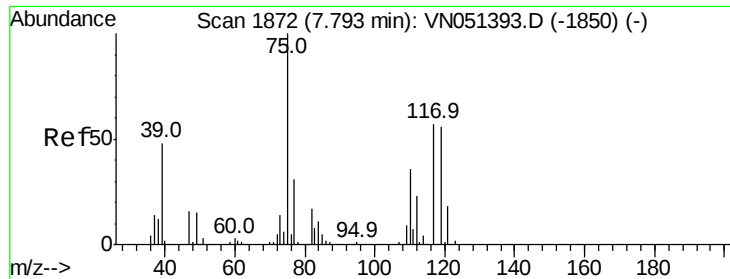
#35
 Dibromofluoromethane
 Concen: 48.099 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051569.D
 Acq: 27 Sep 2018 8:57

Tgt Ion:113 Resp: 400449
 Ion Ratio Lower Upper
 113 100
 111 104.1 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: 3.981 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN051569.D

Acq: 27 Sep 2018 8:57

Instrument :

MSVOA_N

ClientSampled :

SU-02-092418-A

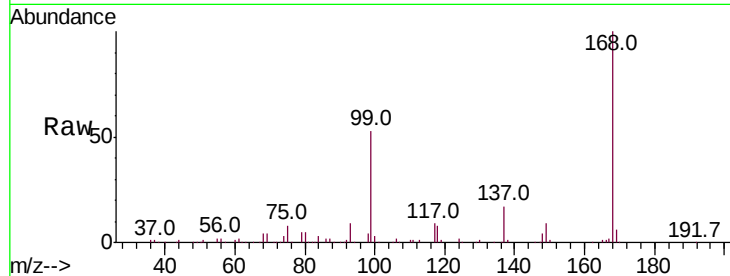
Tot Ion: 75 Resp: 47994

Ion Ratio Lower Upper

75 100

110 8.4 18.1 54.3#

77 0.0 25.6 38.4#

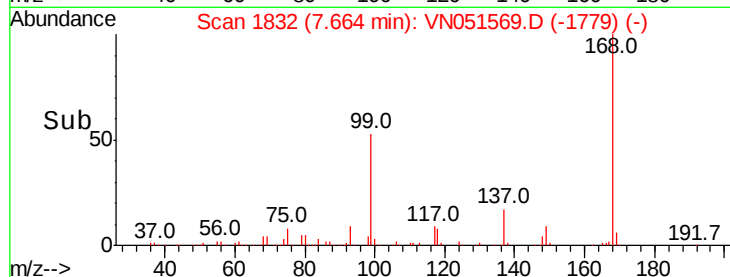


Abundance Ion 74.90 (74.60 to 75.60): VN051393.D (-1850) (-)

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

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

Time-->

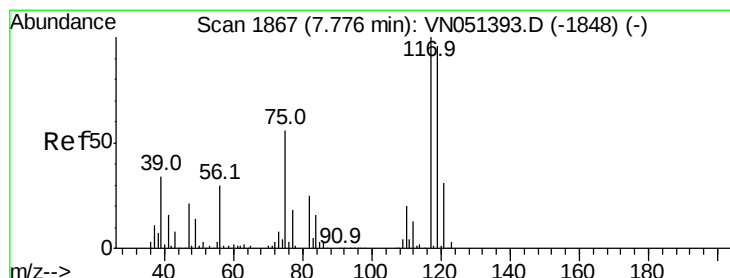


Abundance Ion 74.90 (74.60 to 75.60): VN051569.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN051569.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN051569.D (-1779) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.694 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051569.D

Acq: 27 Sep 2018 8:57

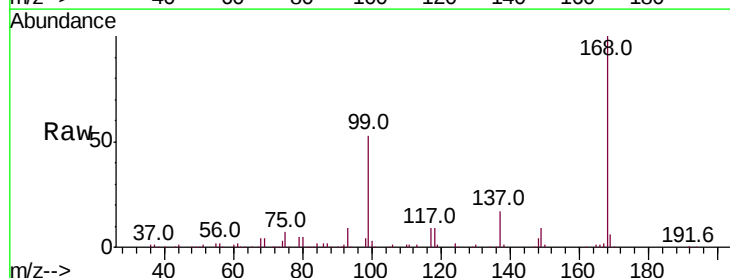
Tgt Ion: 117 Resp: 59191

Ion Ratio Lower Upper

117 100

119 6.5 76.9 115.3#

121 0.0 24.6 37.0#

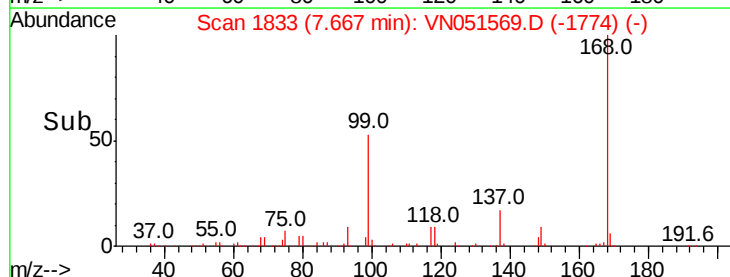


Abundance Ion 116.80 (116.50 to 117.50): VN051393.D (-1848) (-)

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

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

Time-->

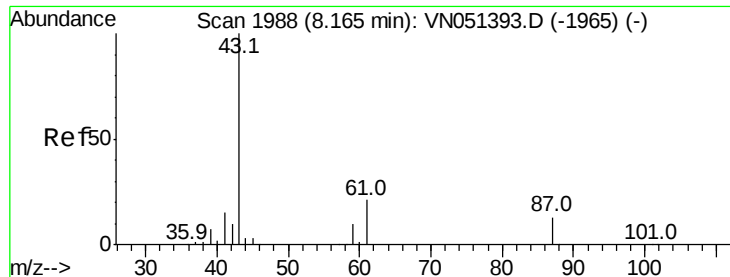


Abundance Ion 116.80 (116.50 to 117.50): VN051569.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN051569.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN051569.D (-1774) (-)

Time-->



#43

Isopropyl Acetate

Concen: 18.391 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN051569.D

Acq: 27 Sep 2018 8:57

Instrument :

MSVOA_N

ClientSampleId :

SU-02-092418-A

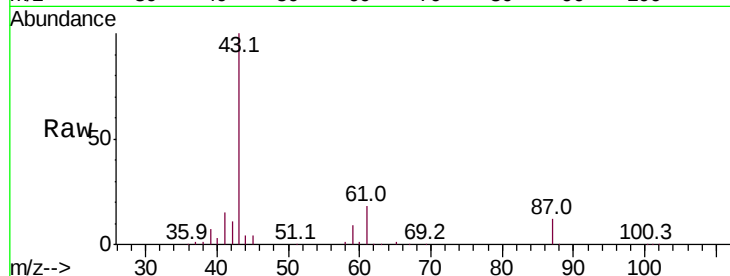
Tot Ion: 43 Resp: 230538

Ion Ratio Lower Upper

43 100

61 17.8 16.8 25.2

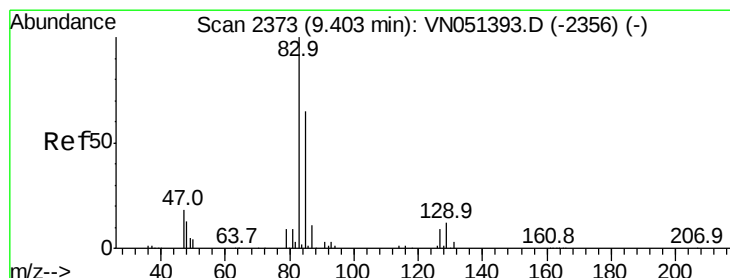
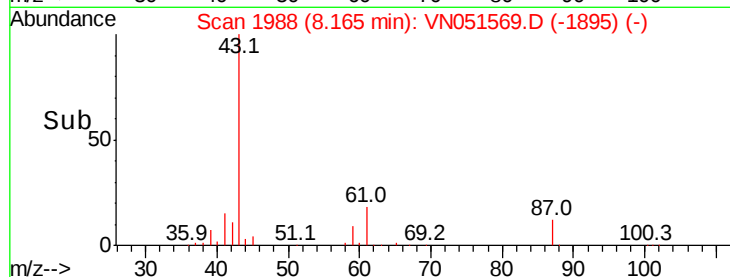
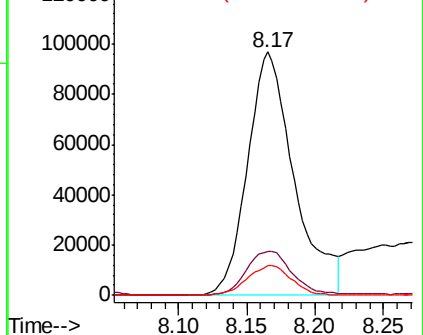
87 11.7 10.7 16.1



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: 0.202 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN051569.D

Acq: 27 Sep 2018 8:57

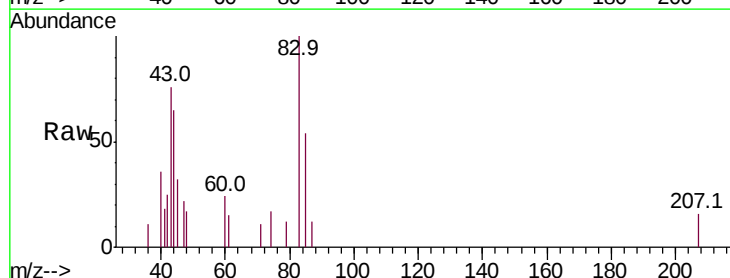
Tgt Ion: 83 Resp: 2426

Ion Ratio Lower Upper

83 100

85 53.6 51.8 77.6

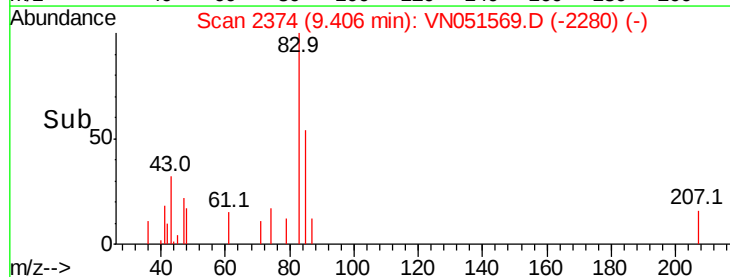
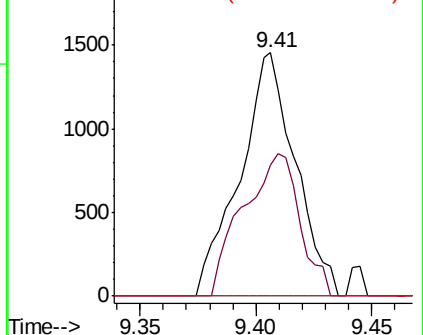
127 0.0 7.4 11.2#

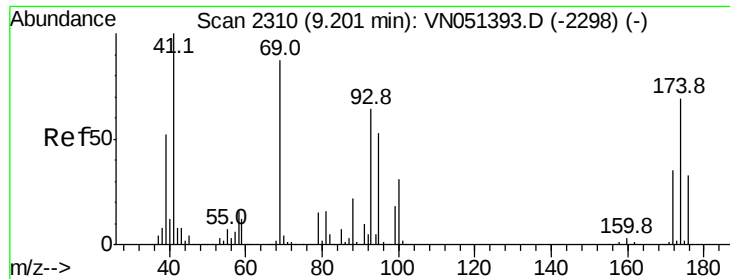


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): V

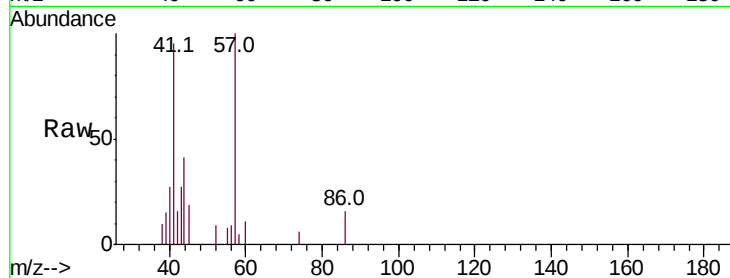




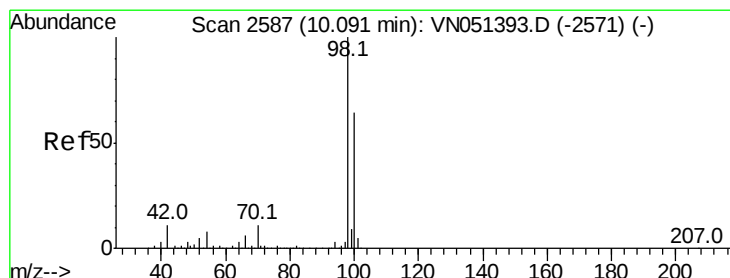
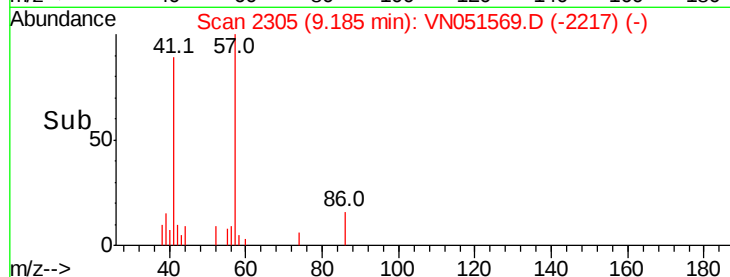
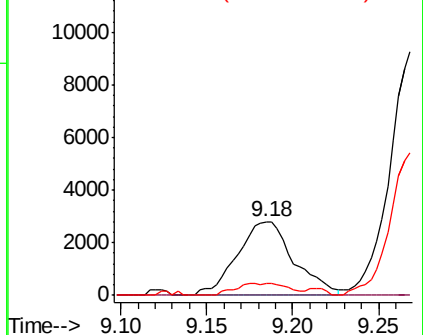
#48
Methvl methacrylate
Concen: 1.031 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN051569.D
Acq: 27 Sep 2018 8:57

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

Tot Ion: 41 Resp: 6442
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 7.7 43.8 65.8#

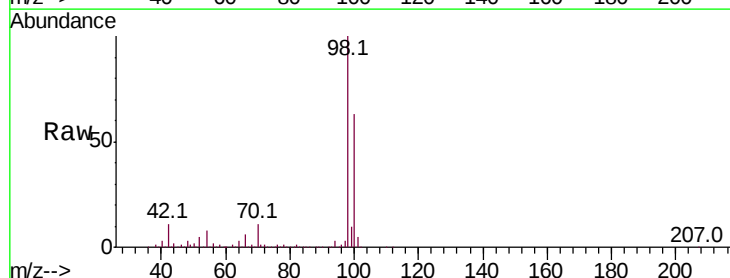


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

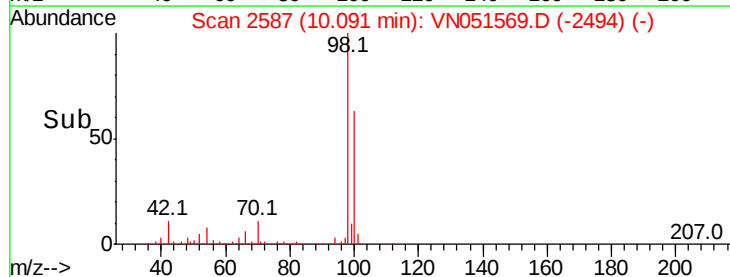
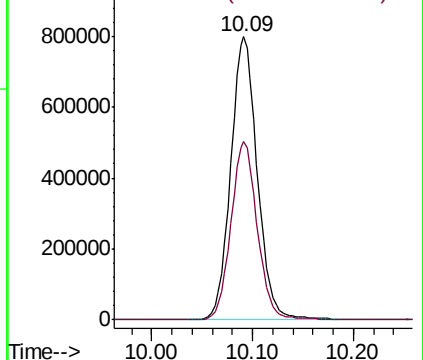


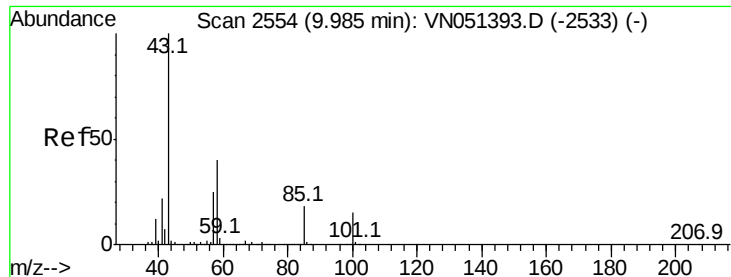
#50
Toluene-d8
Concen: 46.703 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051569.D
Acq: 27 Sep 2018 8:57

Tgt Ion: 98 Resp: 1464171
Ion Ratio Lower Upper
98 100
100 62.5 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VNC
Ion 100.00 (99.70 to 100.70): VNC





#51

4-Methyl-2-Pentanone

Concen: 0.226 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051569.D

Acq: 27 Sep 2018 8:57

Instrument :

MSVOA_N

ClientSampleId :

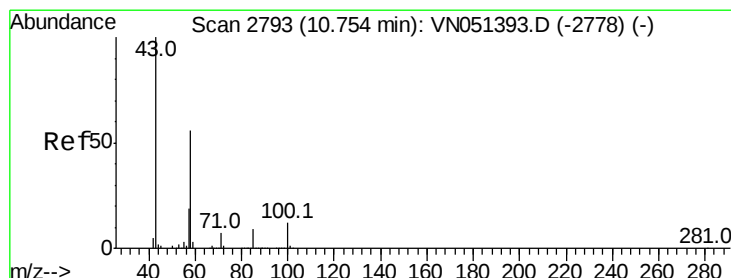
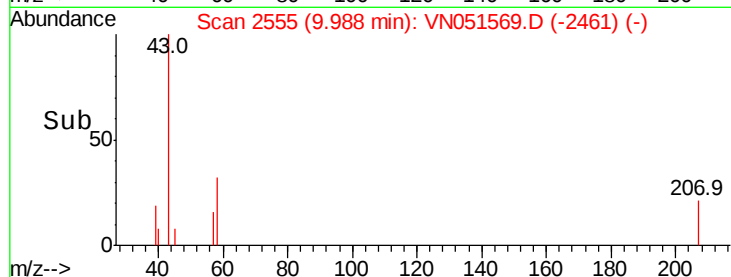
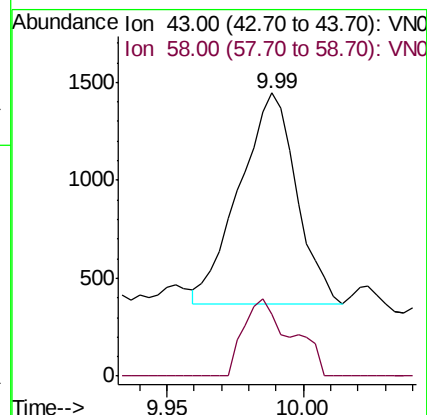
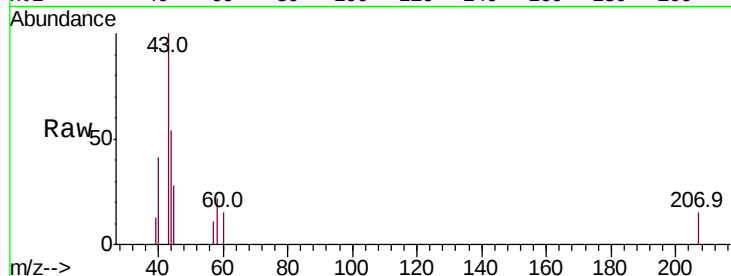
SU-02-092418-A

Tot Ion: 43 Resp: 1556

Ion Ratio Lower Upper

43 100

58 31.0 31.5 47.3#



#59

2-Hexanone

Concen: 2.846 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051569.D

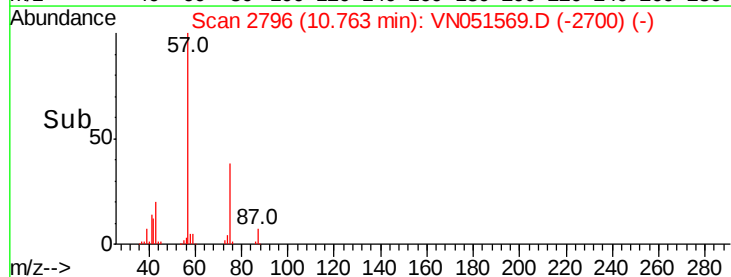
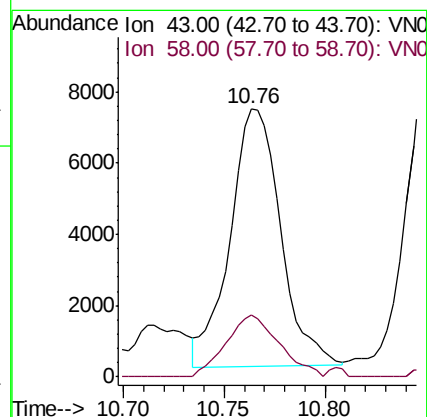
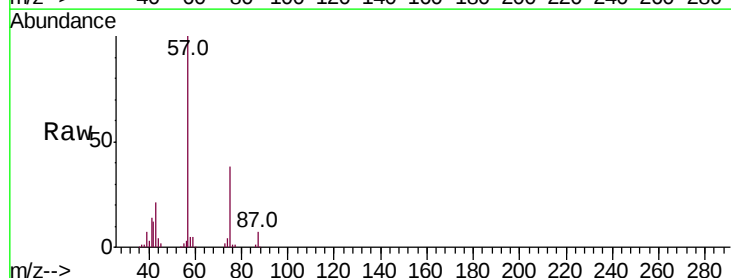
Acq: 27 Sep 2018 8:57

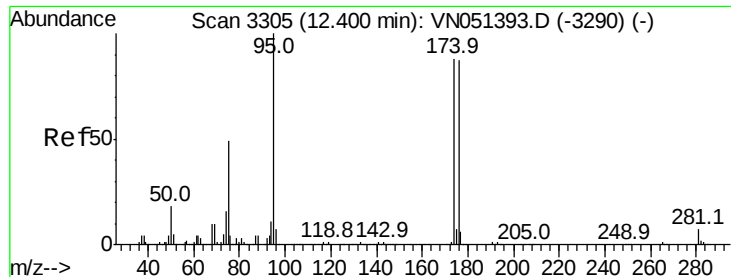
Tgt Ion: 43 Resp: 12717

Ion Ratio Lower Upper

43 100

58 25.2 27.7 83.0#

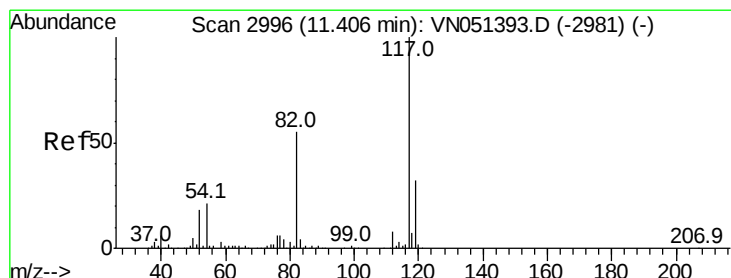
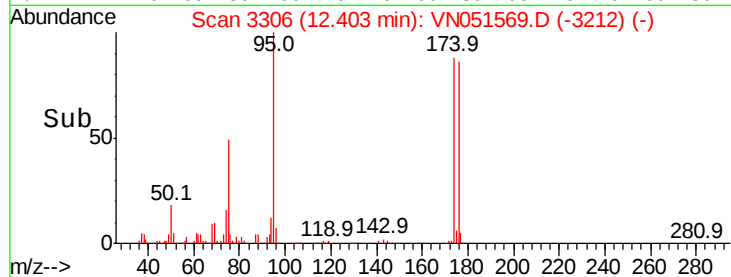
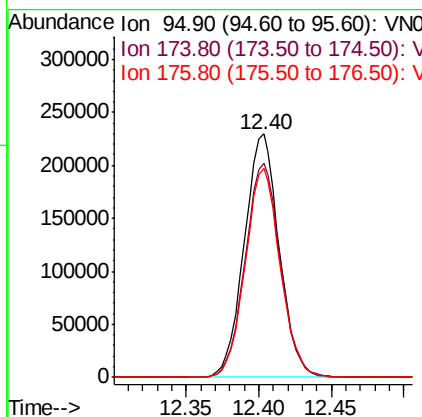
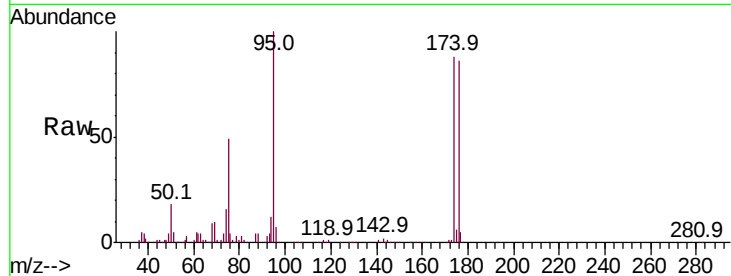




#62
4-Bromofluorobenzene
Concen: 37.937 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051569.D
Acq: 27 Sep 2018 8:57

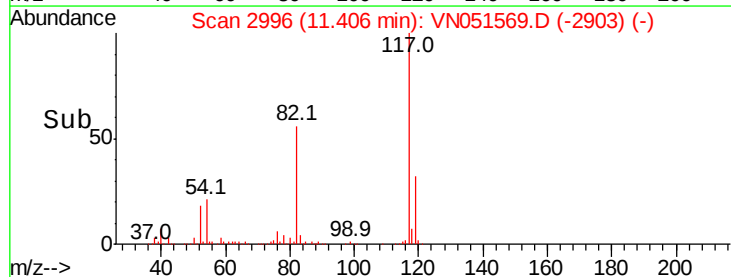
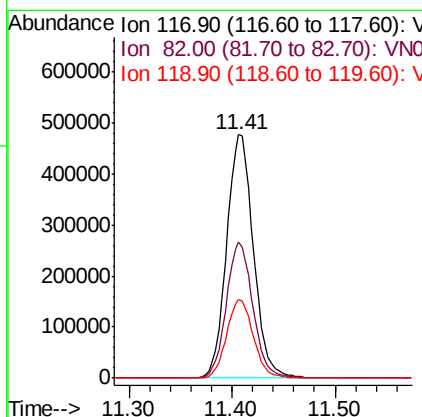
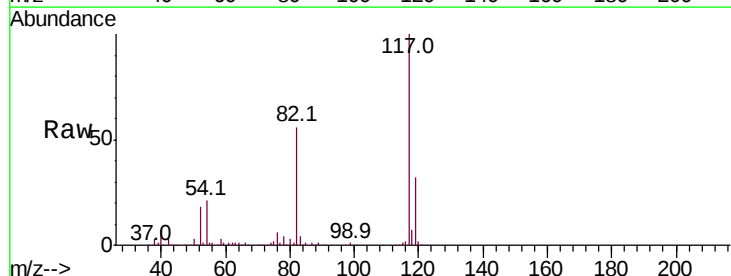
Instrument :
MSVOA_N
ClientSampleId :
SU-02-092418-A

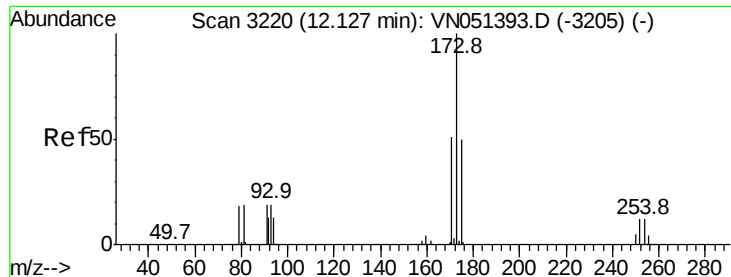
Tot Ion: 95 Resp: 384757
Ion Ratio Lower Upper
95 100
174 88.8 0.0 181.6
176 85.8 0.0 176.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051569.D
Acq: 27 Sep 2018 8:57

Tgt Ion: 117 Resp: 862709
Ion Ratio Lower Upper
117 100
82 55.7 44.2 66.2
119 32.2 25.9 38.9





#71

Bromoform

Concen: 0.586 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051569.D

Acq: 27 Sep 2018 8:57

Instrument :

MSVOA_N

ClientSampleId :

SU-02-092418-A

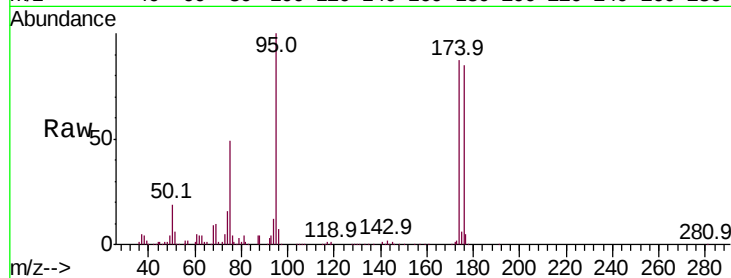
Tot Ion:173 Resp: 3354

Ion Ratio Lower Upper

173 100

175 640.8 24.8 74.3#

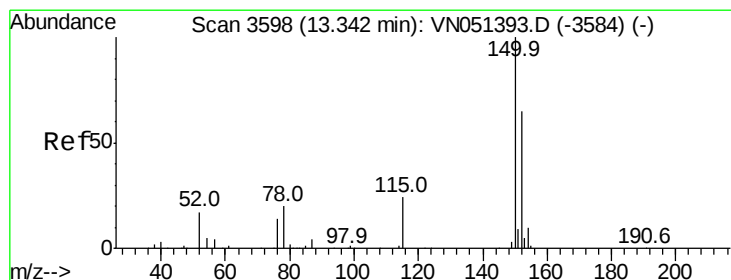
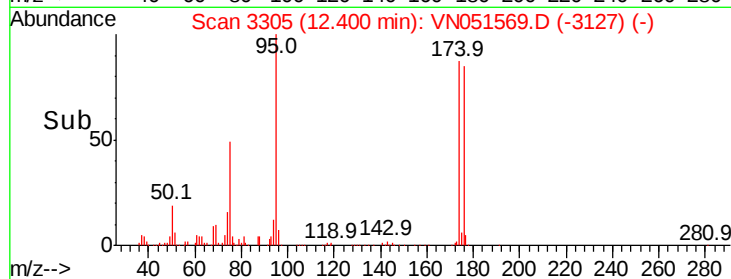
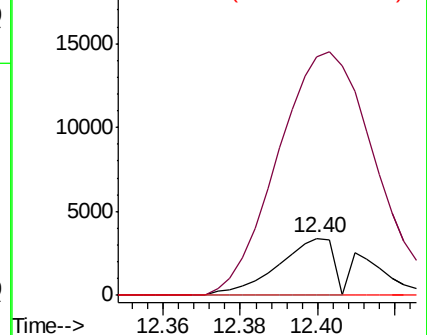
254 0.0 0.2 0.2#



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: VN051569.D

Acq: 27 Sep 2018 8:57

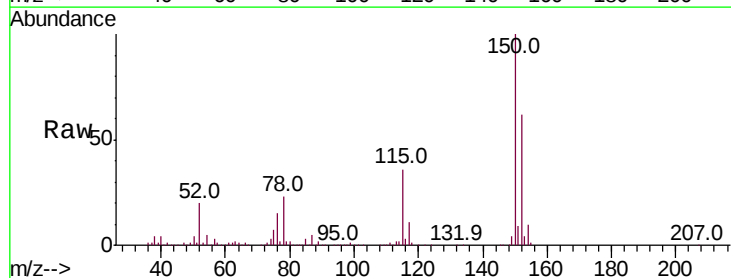
Tgt Ion:152 Resp: 295148

Ion Ratio Lower Upper

152 100

115 57.2 28.3 84.9

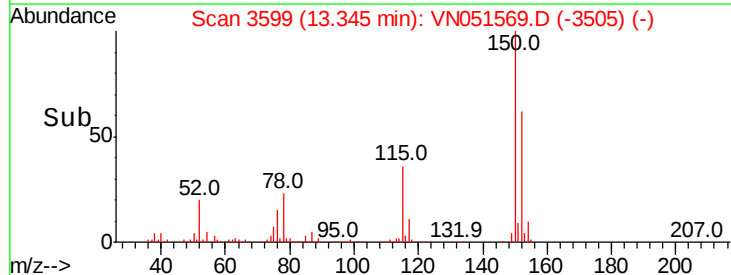
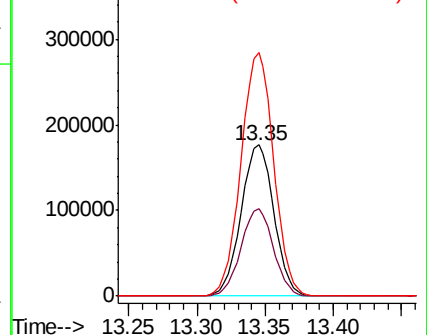
150 160.3 0.0 353.6

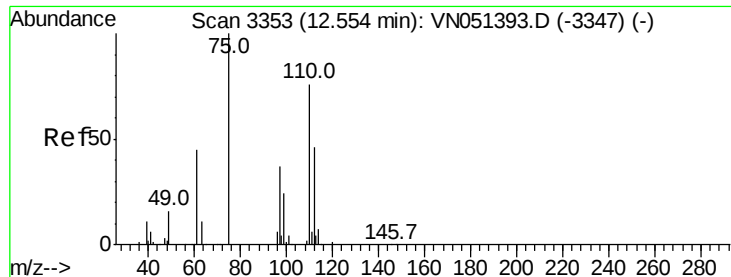


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 38.339 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051569.D

Acq: 27 Sep 2018 8:57

Instrument :

MSVOA_N

ClientSampleId :

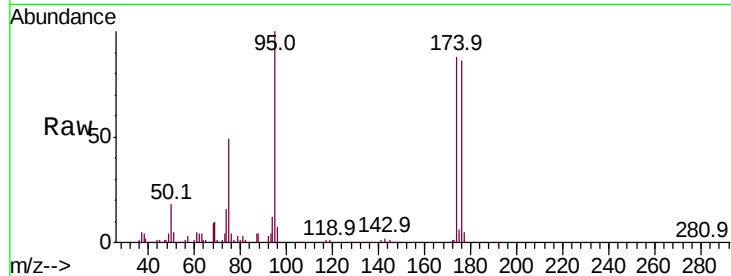
SU-02-092418-A

Tot Ion: 75 Resp: 187847

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

12.40

120000

100000

80000

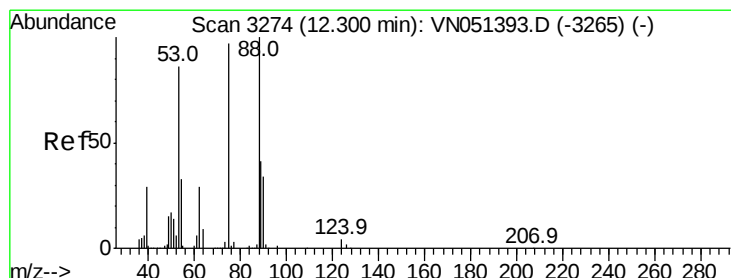
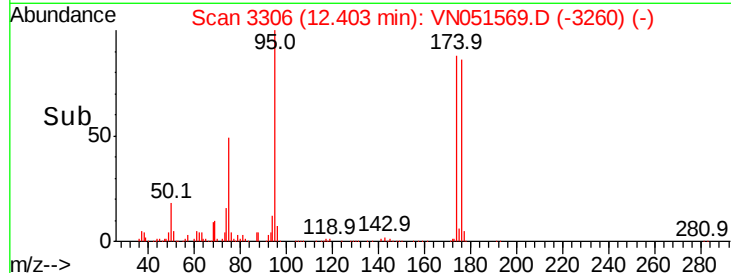
60000

40000

20000

0

Time--> 12.35 12.40 12.45 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 117.889 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051569.D

Acq: 27 Sep 2018 8:57

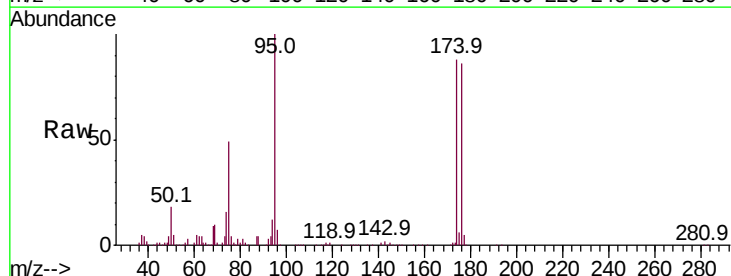
Tgt Ion: 75 Resp: 187847

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

89 0.0 36.7 55.1#



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

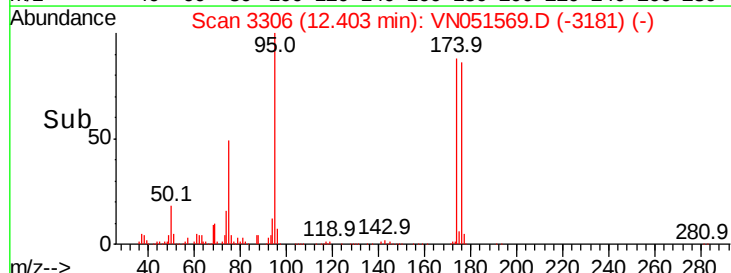
150000

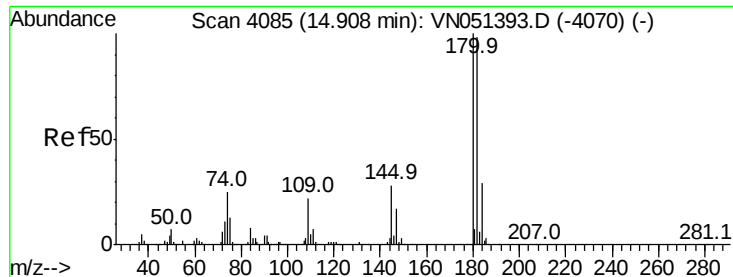
100000

50000

0

Time--> 12.35 12.40 12.45 12.50

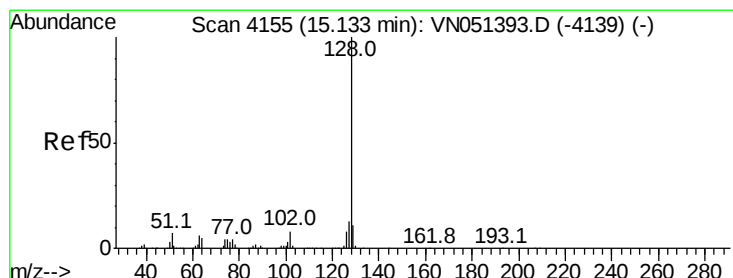
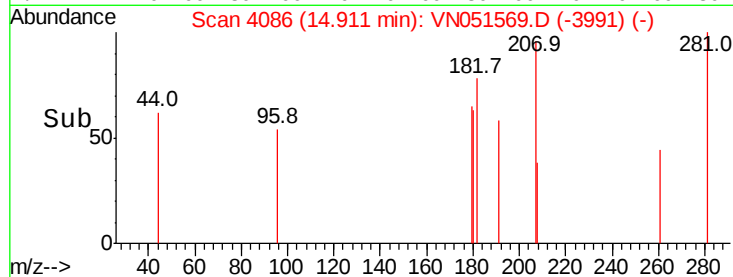
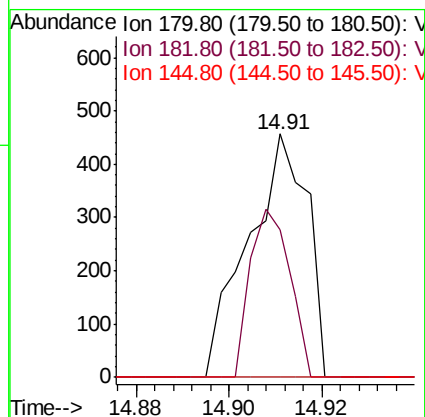
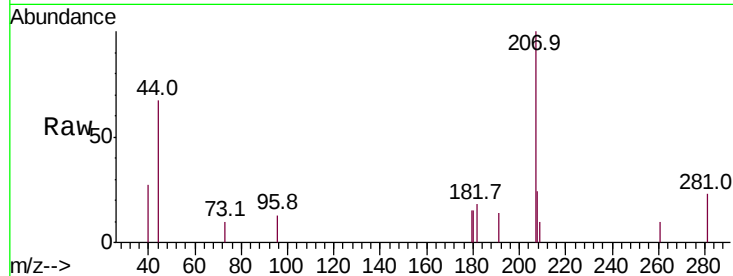




#93
 1,2,4-Trichlorobenzene
 Concen: 6.044 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051569.D
 Acq: 27 Sep 2018 8:57

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

Tot Ion:180 Resp: 403
 Ion Ratio Lower Upper
 180 100
 182 46.4 48.5 145.6#
 145 0.0 14.1 42.4#



#95
 Naphthalene
 Concen: 9.302 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN051569.D
 Acq: 27 Sep 2018 8:57

Tgt Ion:128 Resp: 16446
 Ion Ratio Lower Upper
 128 100
 127 12.0 10.5 15.7
 129 9.1 8.6 12.8

