

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051581.D
 Acq On : 27 Sep 2018 13:52
 Operator : MD\SY
 Sample : J4773-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-092518-A

Quant Time: Sep 27 14:30:39 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	660446	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1070853	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	883919	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	317951	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	468602	56.64	ug/l	0.00
Spiked Amount			Recovery	=	113.28%	
35) Dibromofluoromethane	7.59	113	410373	47.92	ug/l	0.00
Spiked Amount			Recovery	=	95.84%	
50) Toluene-d8	10.09	98	1479599	45.89	ug/l	0.00
Spiked Amount			Recovery	=	91.78%	
62) 4-Bromofluorobenzene	12.40	95	397092	38.07	ug/l	0.00
Spiked Amount			Recovery	=	76.14%	

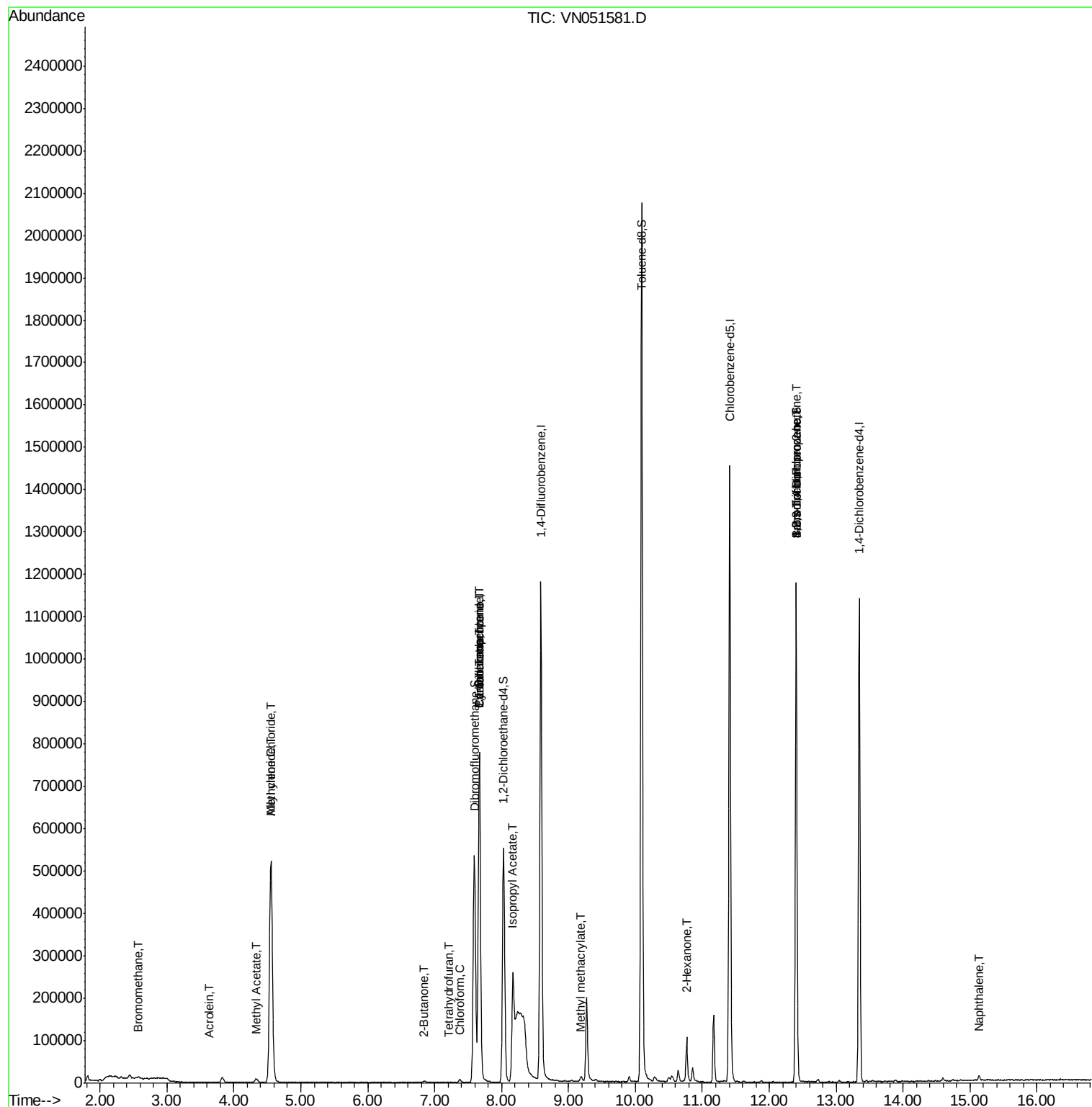
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1013	0.215	ug/l	96
13) Acrolein	3.62	56	139	0.300	ug/l #	38
14) Allyl chloride	4.56	41	16003	1.298	ug/l #	26
16) Acetone	3.82	43	20331	Below Cal		99
18) Methyl Acetate	4.33	43	17971	2.852	ug/l	92
20) Methylene Chloride	4.55	84	387243	47.301	ug/l	98
25) 2-Butanone	6.85	43	4826	1.704	ug/l	97
29) Tetrahydrofuran	7.20	42	414	0.231	ug/l #	75
30) Chloroform	7.37	83	7486	0.531	ug/l	96
31) Cyclohexane	7.67	56	12949	0.994	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47335	3.817	ug/l #	42
38) Carbon Tetrachloride	7.67	117	61482	4.740	ug/l #	17
43) Isopropyl Acetate	8.17	43	349359	27.097	ug/l #	88
48) Methyl methacrylate	9.18	41	8281	1.288	ug/l #	17
59) 2-Hexanone	10.77	43	15856	3.450	ug/l #	54
71) Bromoform	12.40	173	1561	0.266	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	198515	37.610	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	198515	115.650	ug/l #	12
95) Naphthalene	15.13	128	10584	8.796	ug/l	98

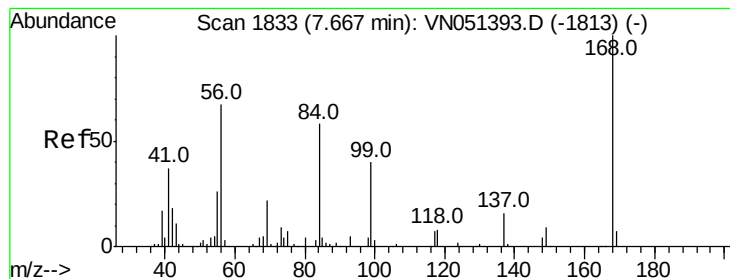
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051581.D

Acq: 27 Sep 2018 13:52

Instrument :

MSVOA_N

ClientSampleId :

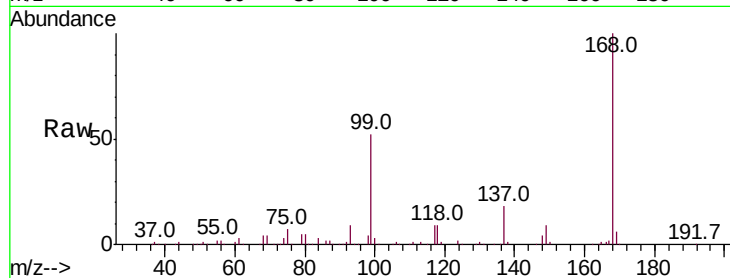
CL-02-092518-A

Tot Ion:168 Resp: 660446

Ion Ratio Lower Upper

168 100

99 51.8 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

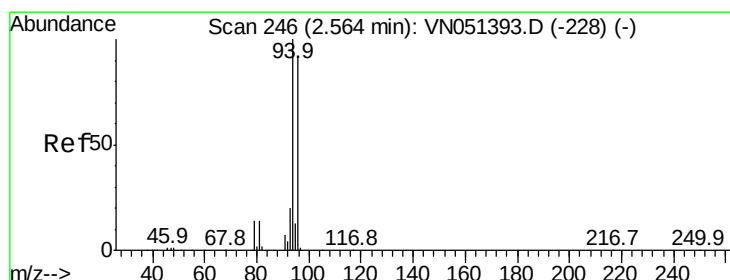
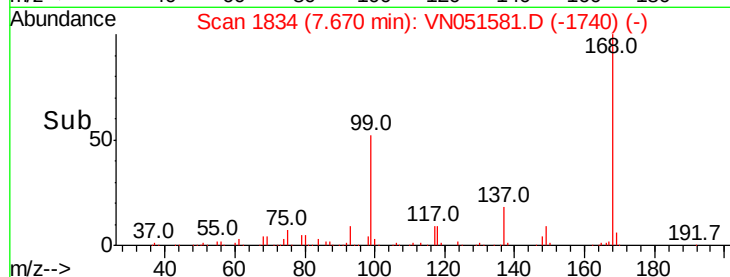
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: 0.215 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051581.D

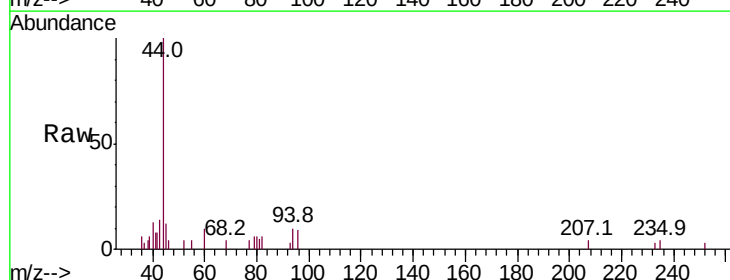
Acq: 27 Sep 2018 13:52

Tgt Ion: 94 Resp: 1013

Ion Ratio Lower Upper

94 100

96 88.0 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

600

500

400

300

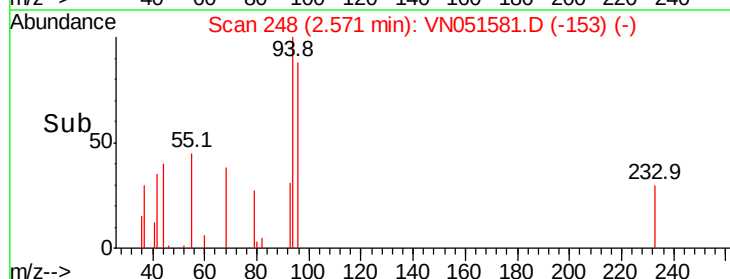
200

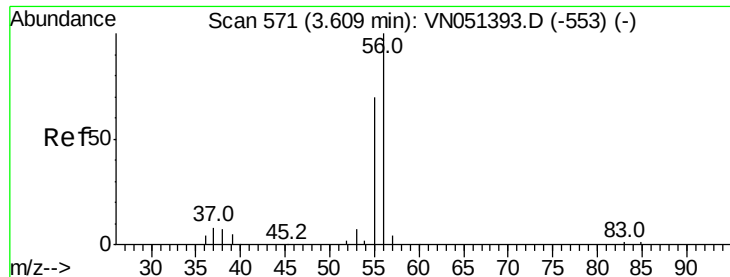
100

0

2.50 2.55 2.60

Time-->





#13

Acrolein

Concen: 0.300 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN051581.D

Acq: 27 Sep 2018 13:52

Instrument :

MSVOA_N

ClientSampleId :

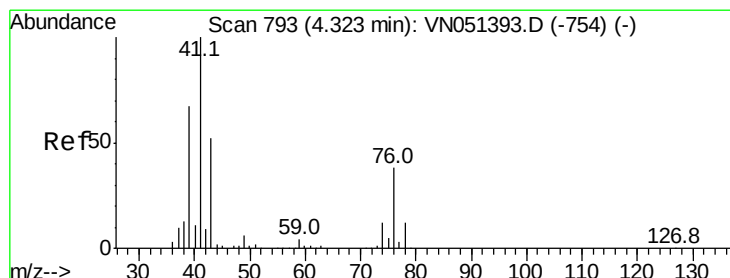
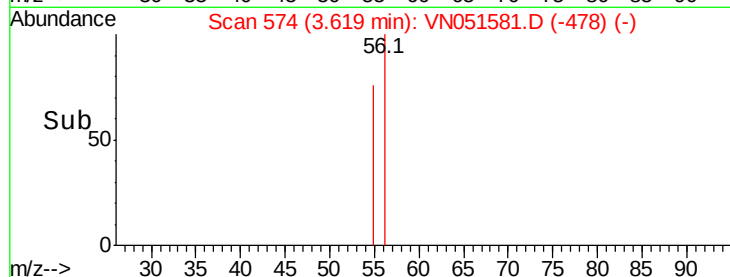
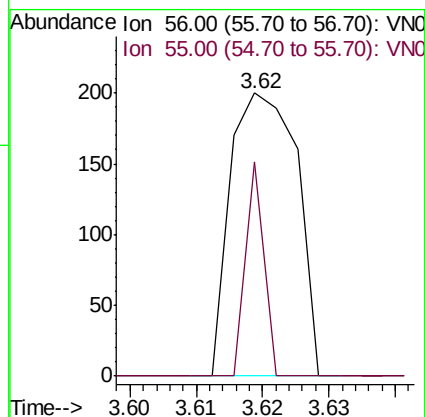
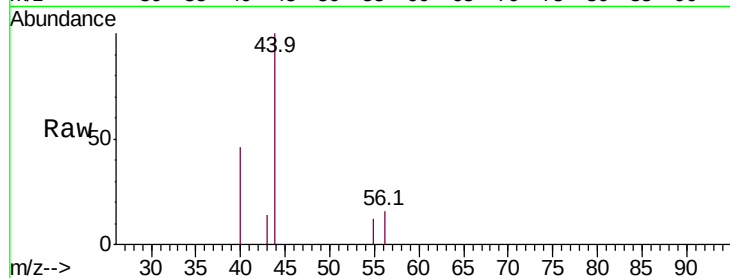
CL-02-092518-A

Tot Ion: 56 Resp: 139

Ion Ratio Lower Upper

56 100

55 20.9 57.8 86.8#



#14

Allyl chloride

Concen: 1.298 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.23 min

Lab File: VN051581.D

Acq: 27 Sep 2018 13:52

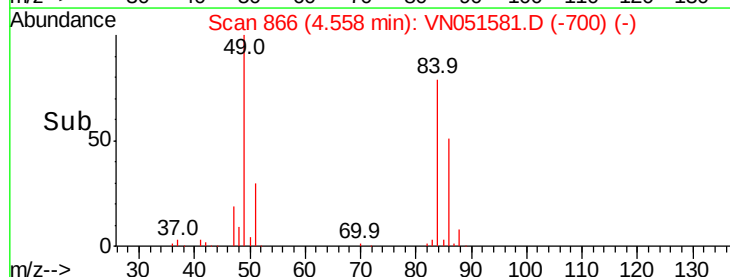
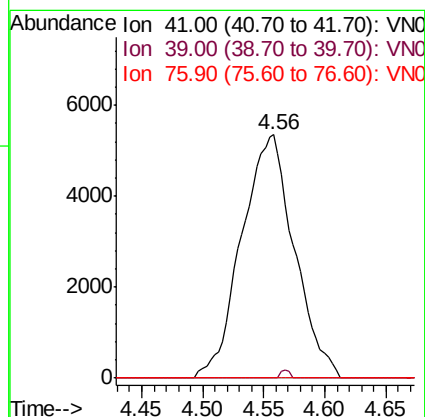
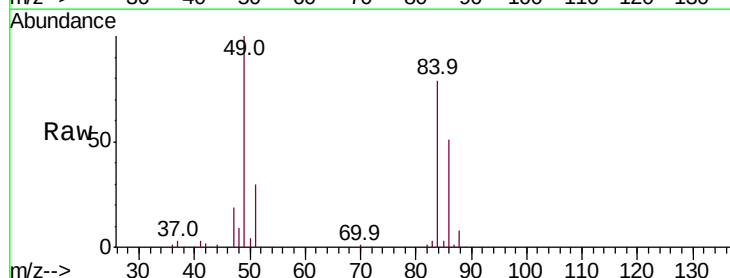
Tgt Ion: 41 Resp: 16003

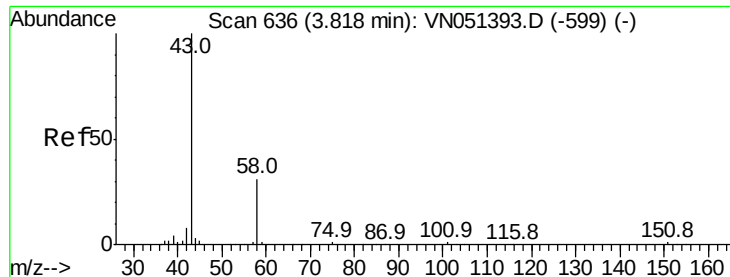
Ion Ratio Lower Upper

41 100

39 0.6 51.4 77.2#

76 0.0 28.1 42.1#





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051581.D

Acq: 27 Sep 2018 13:52

Instrument :

MSVOA_N

ClientSampleId :

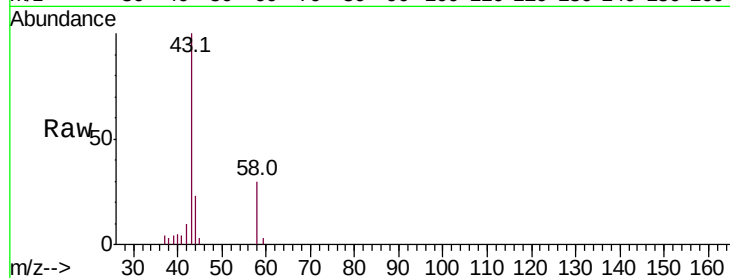
CL-02-092518-A

Tot Ion: 43 Resp: 20331

Ion Ratio Lower Upper

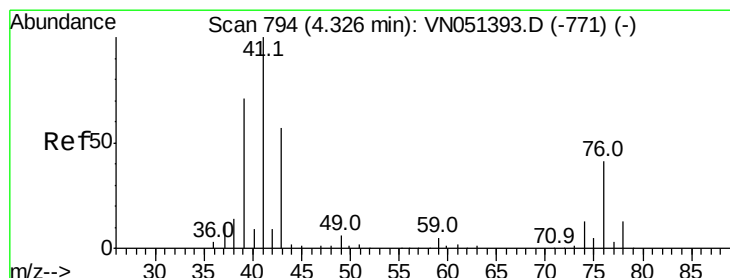
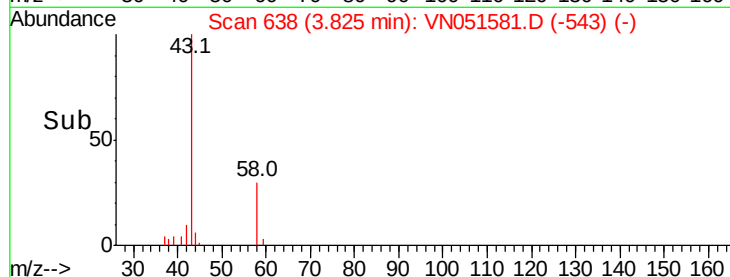
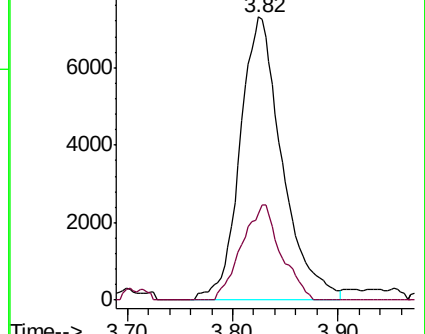
43 100

58 30.5 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: 2.852 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051581.D

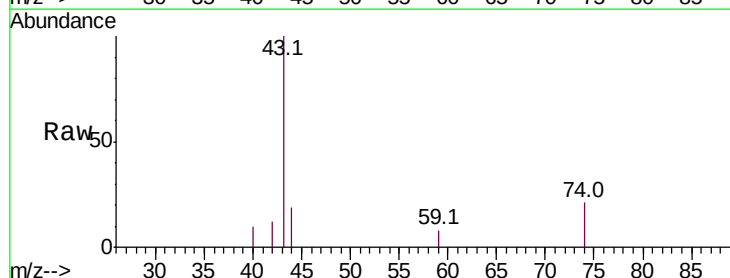
Acq: 27 Sep 2018 13:52

Tgt Ion: 43 Resp: 17971

Ion Ratio Lower Upper

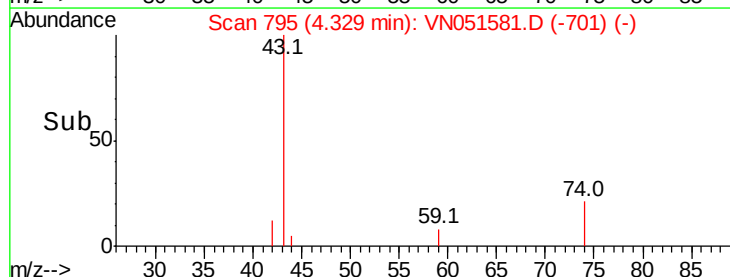
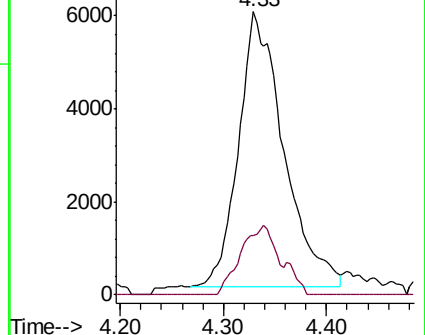
43 100

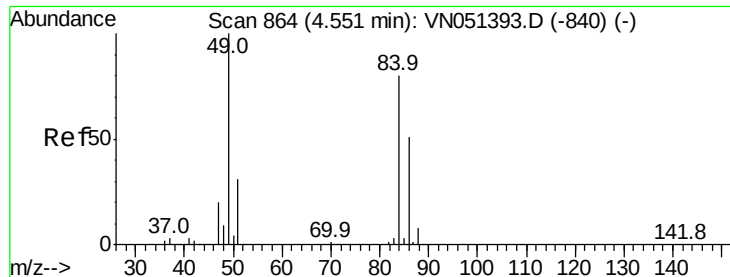
74 19.6 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

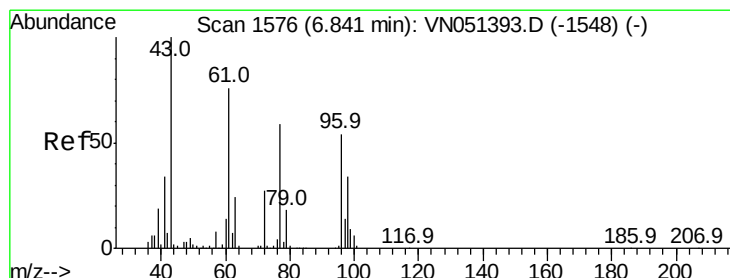
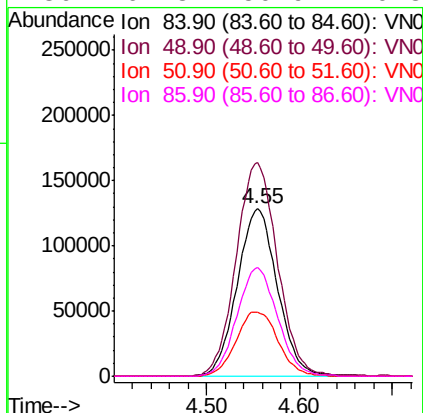
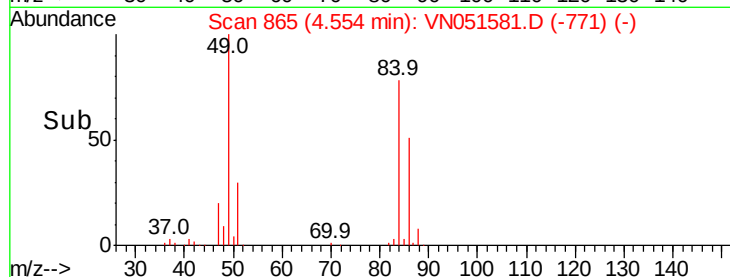
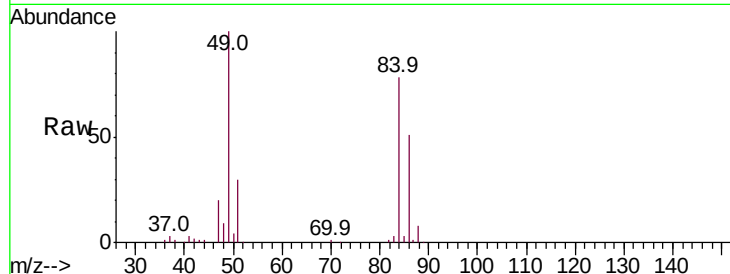




#20
Methylene Chloride
Concen: 47.301 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051581.D
Acq: 27 Sep 2018 13:52

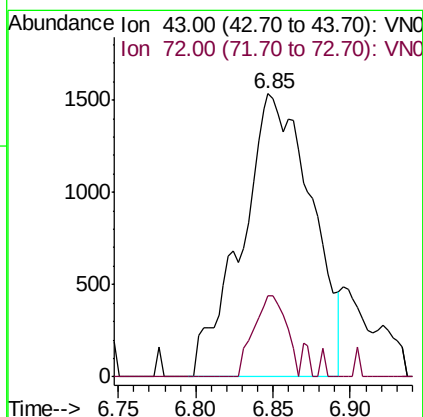
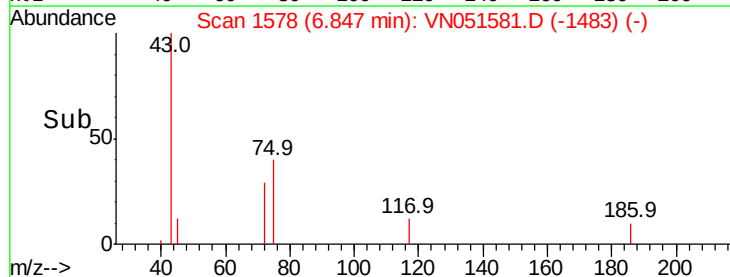
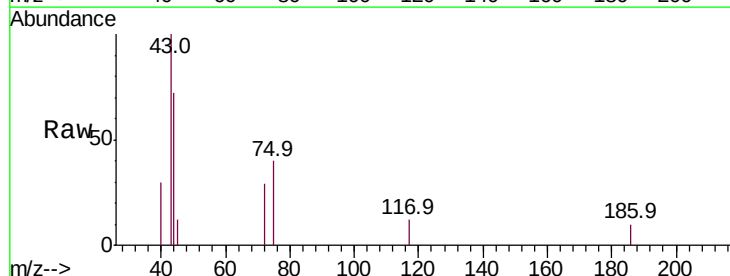
Instrument :
MSVOA_N
ClientSampleId :
CL-02-092518-A

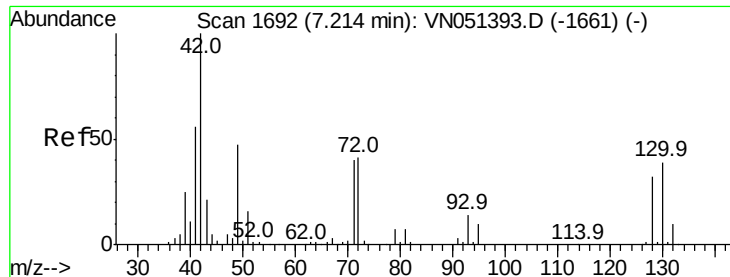
Tot Ion: 84 Resp: 387243
Ion Ratio Lower Upper
84 100
49 127.3 99.9 149.9
51 38.2 31.4 47.2
86 64.8 50.9 76.3



#25
2-Butanone
Concen: 1.704 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN051581.D
Acq: 27 Sep 2018 13:52

Tgt Ion: 43 Resp: 4826
Ion Ratio Lower Upper
43 100
72 28.7 21.8 32.6





#29

Tetrahydrofuran

Concen: 0.231 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. -0.01 min

Lab File: VN051581.D

Acq: 27 Sep 2018 13:52

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-A

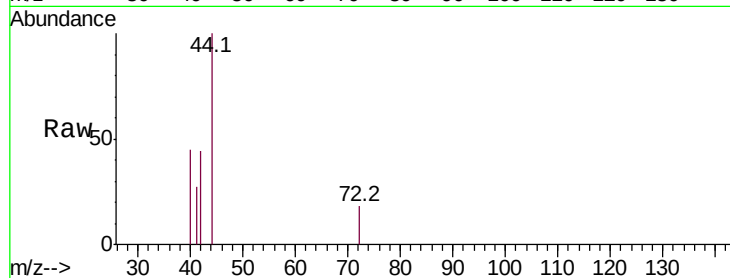
Tot Ion: 42 Resp: 414

Ion Ratio Lower Upper

42 100

72 73.4 34.3 51.5#

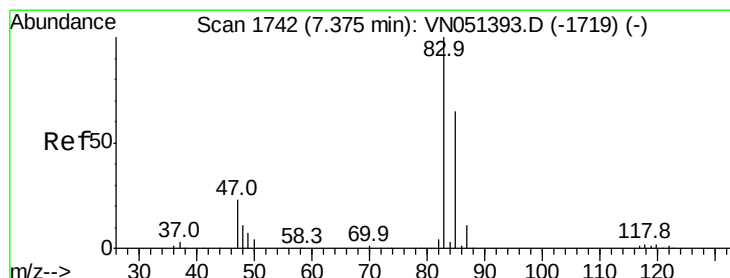
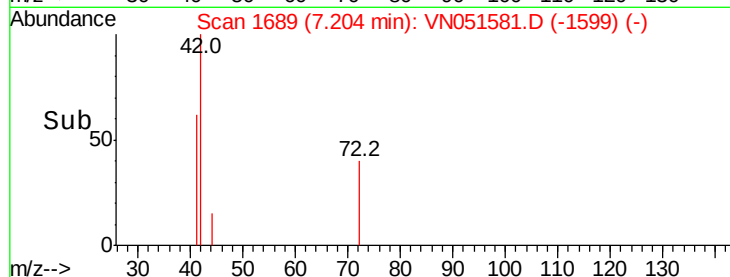
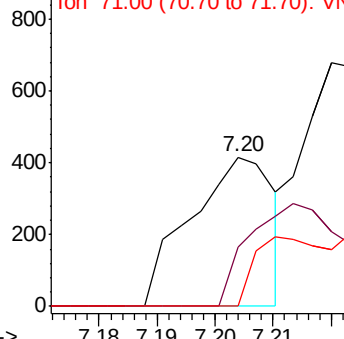
71 40.3 32.2 48.4



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: 0.531 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VN051581.D

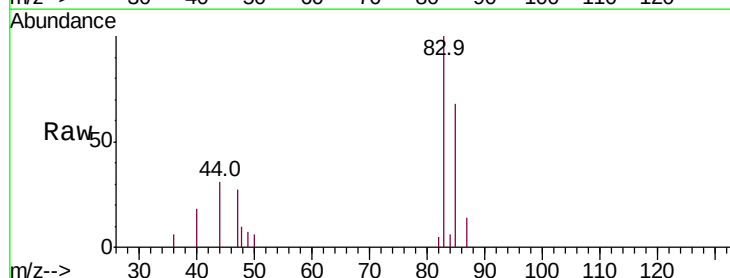
Acq: 27 Sep 2018 13:52

Tgt Ion: 83 Resp: 7486

Ion Ratio Lower Upper

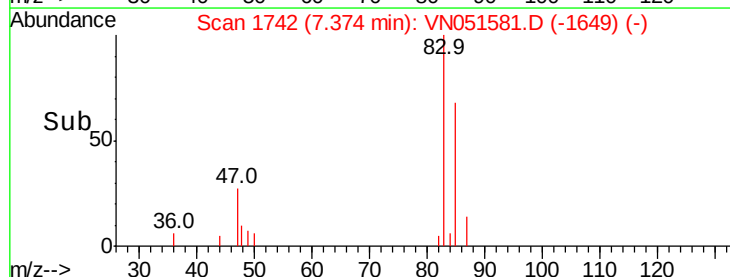
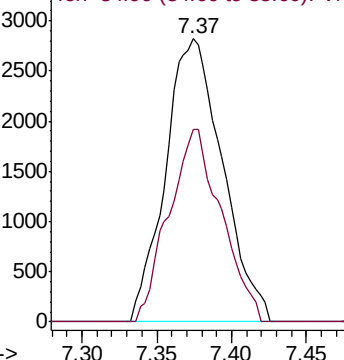
83 100

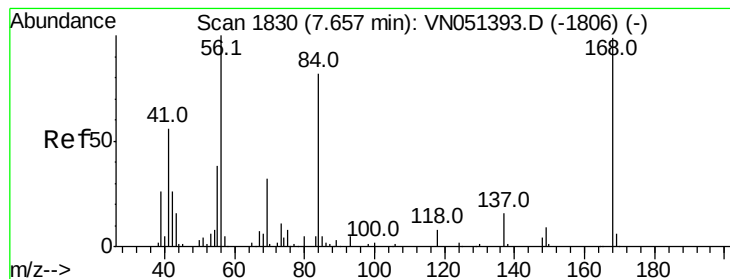
85 68.0 51.8 77.6



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 0.994 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN051581.D

Acq: 27 Sep 2018 13:52

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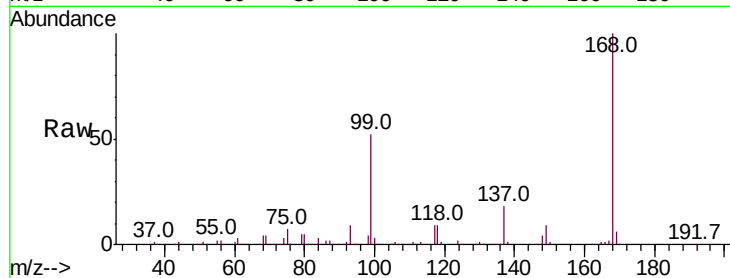
Tot Ion: 56 Resp: 12949

Ion Ratio Lower Upper

56 100

69 207.4 25.8 38.6#

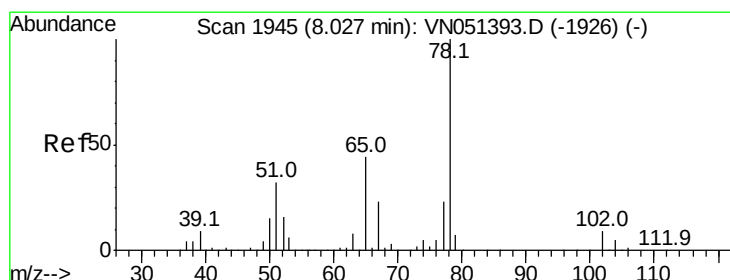
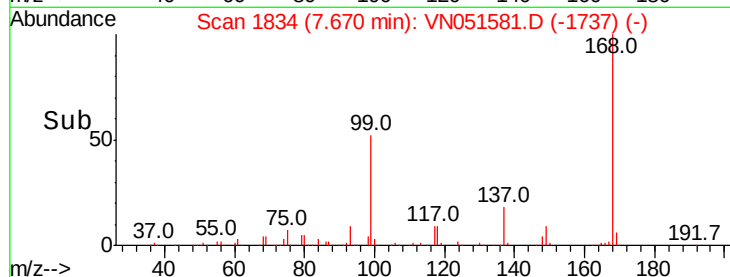
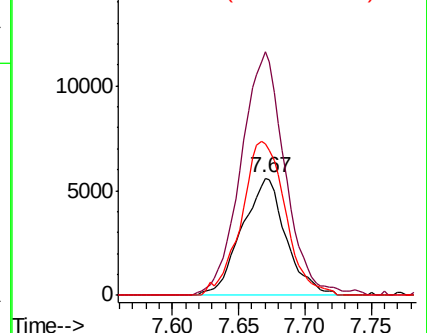
84 129.3 66.0 99.0#



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: 56.640 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051581.D

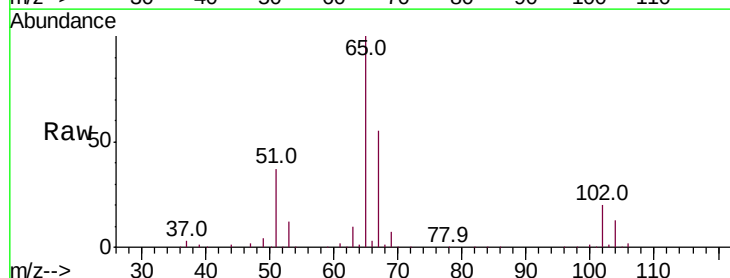
Acq: 27 Sep 2018 13:52

Tgt Ion: 65 Resp: 468602

Ion Ratio Lower Upper

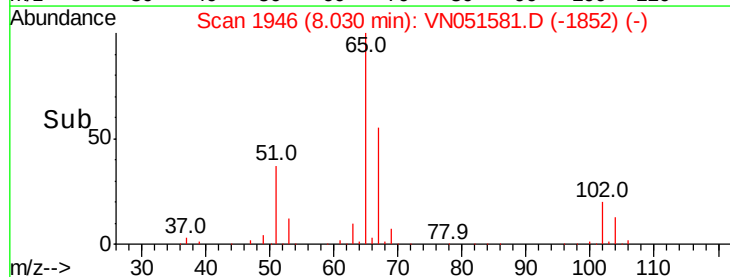
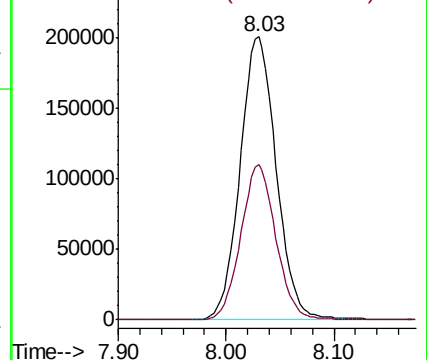
65 100

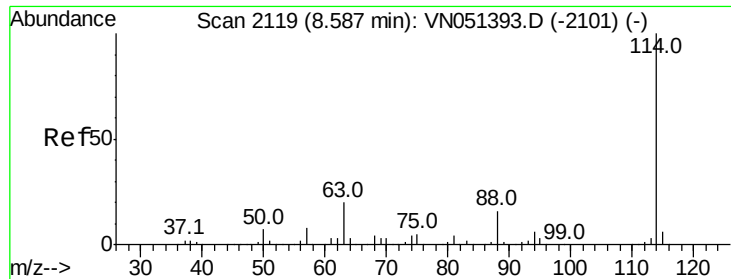
67 53.3 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



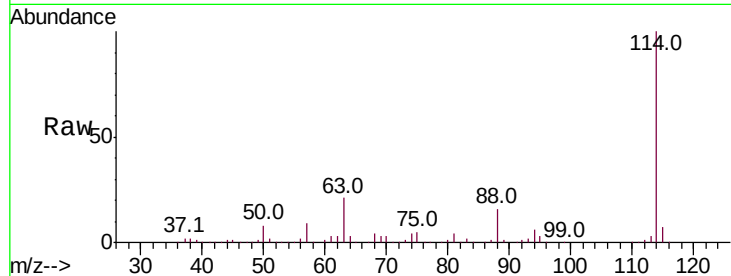


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051581.D
 Acq: 27 Sep 2018 13:52

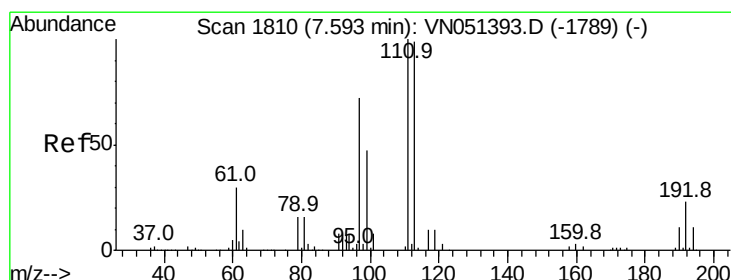
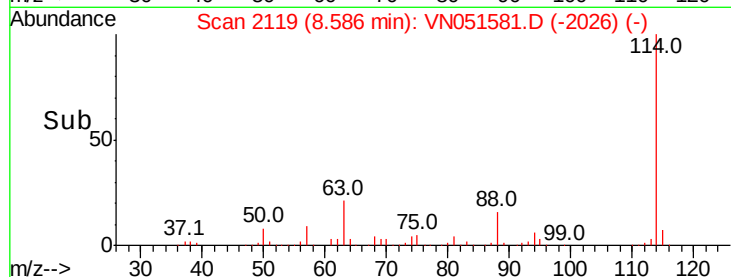
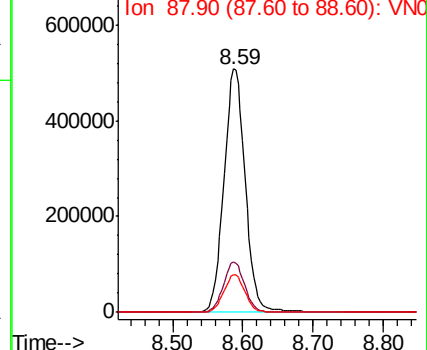
Instrument :
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 CL-02-092518-A

Tot Ion:114 Resp: 1070853

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.2
88	15.6	0.0	31.4



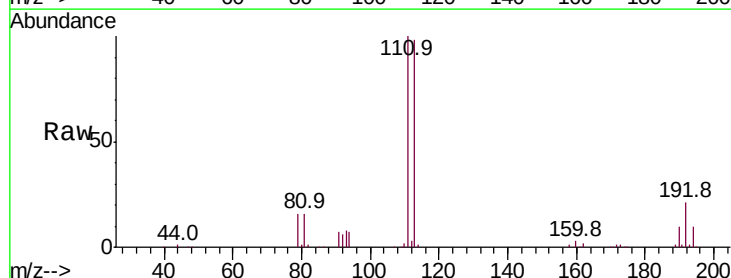
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



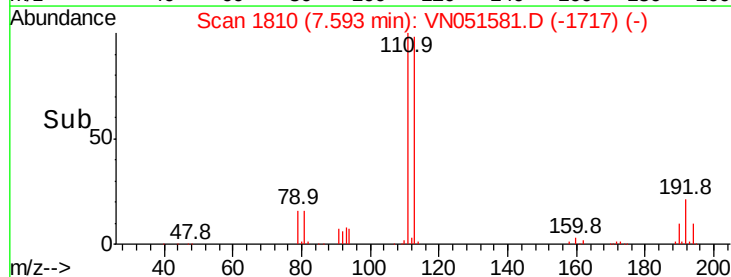
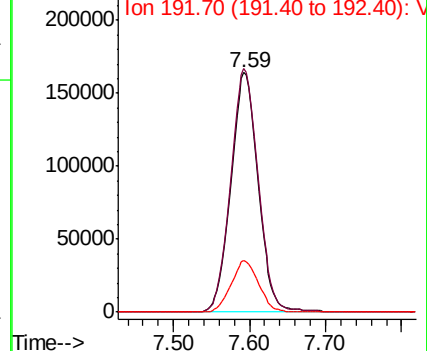
#35
 Dibromofluoromethane
 Concen: 47.923 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051581.D
 Acq: 27 Sep 2018 13:52

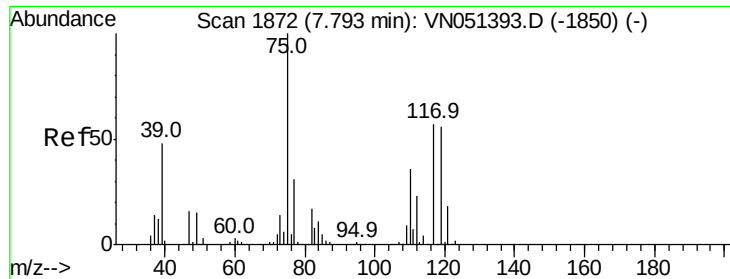
Tgt Ion:113 Resp: 410373

Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.6	123.8
192	21.7	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

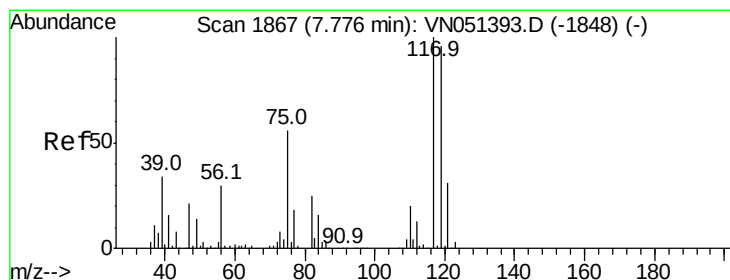
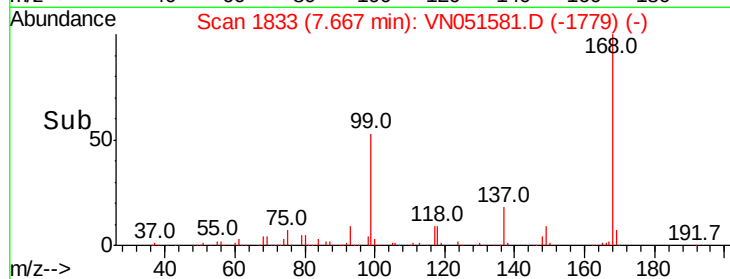
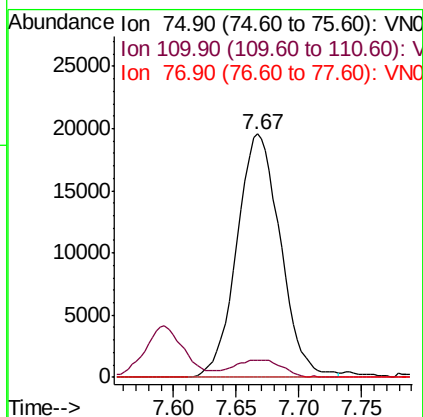
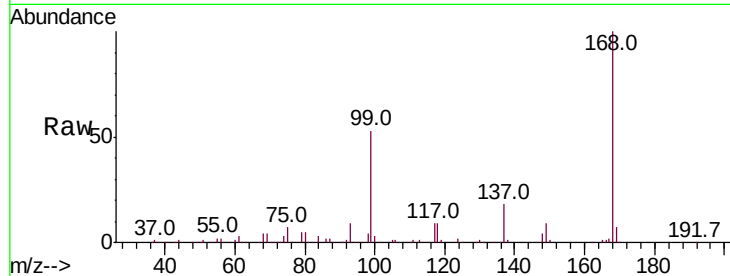




#36
 1,1-Dichloropropene
 Concen: 3.817 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051581.D
 Acq: 27 Sep 2018 13:52

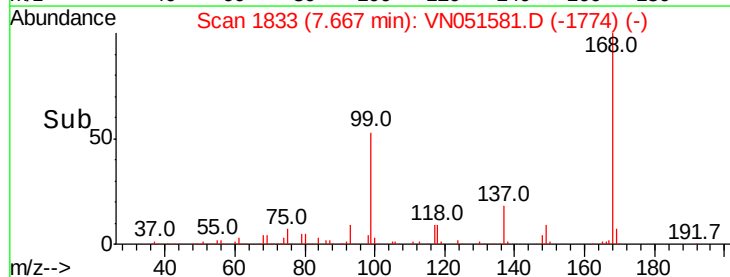
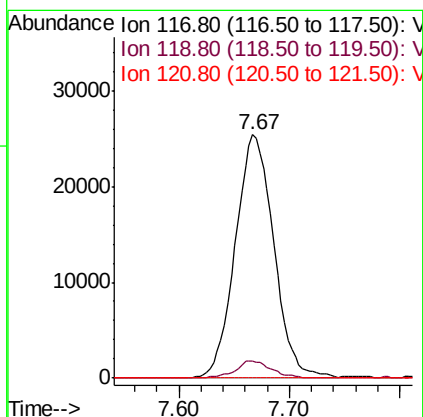
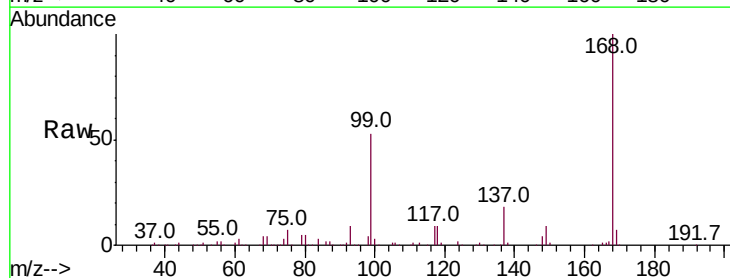
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-092518-A

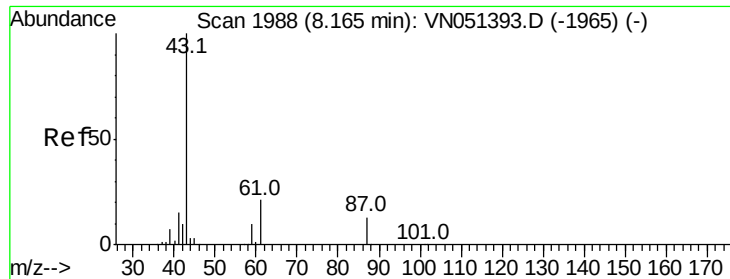
Tot Ion	Ratio	Lower	Upper
75	100		
110	2.2	18.1	54.3#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 4.740 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051581.D
 Acq: 27 Sep 2018 13:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.8	76.9	115.3#
121	0.0	24.6	37.0#





#43

Isopropyl Acetate

Concen: 27.097 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051581.D

Acq: 27 Sep 2018 13:52

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-A

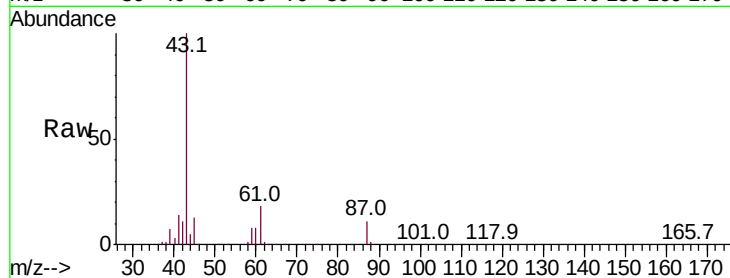
Tot Ion: 43 Resp: 349359

Ion Ratio Lower Upper

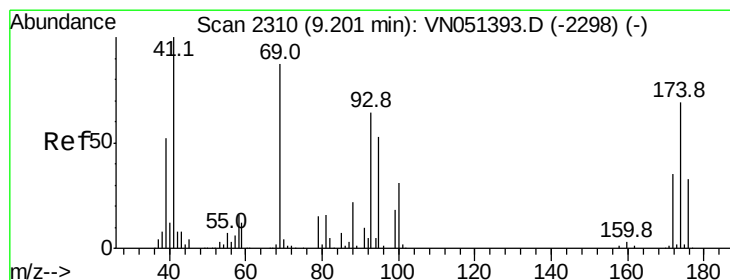
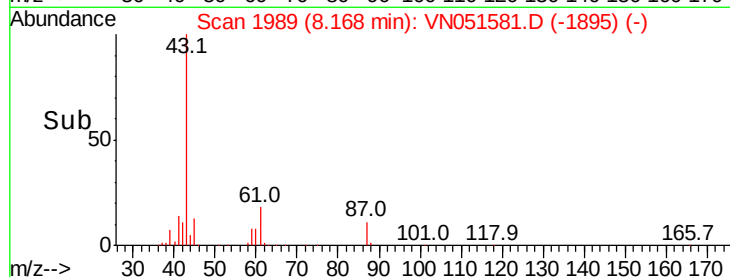
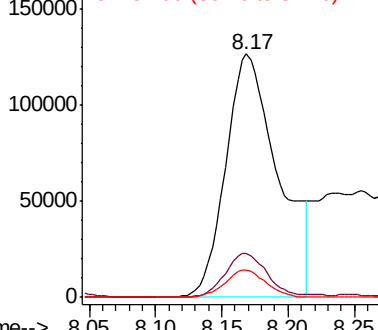
43 100

61 15.0 16.8 25.2#

87 8.8 10.7 16.1#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.288 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051581.D

Acq: 27 Sep 2018 13:52

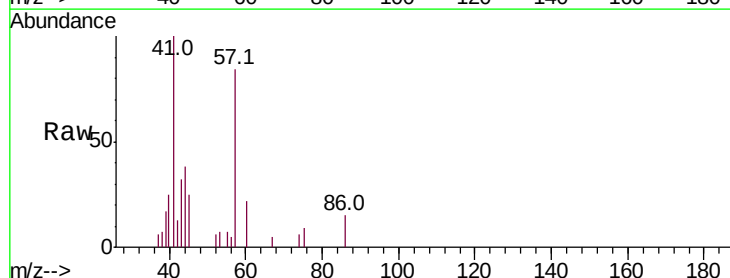
Tgt Ion: 41 Resp: 8281

Ion Ratio Lower Upper

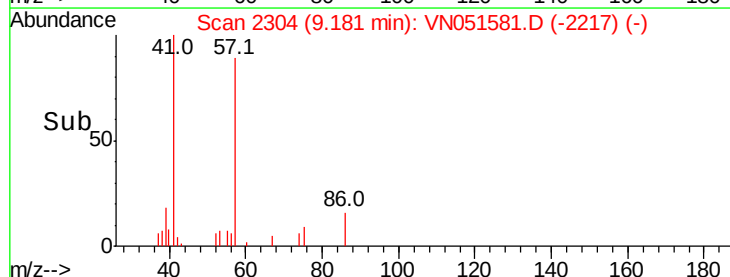
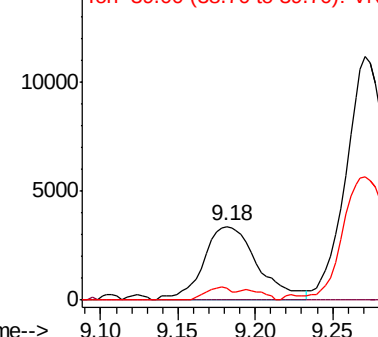
41 100

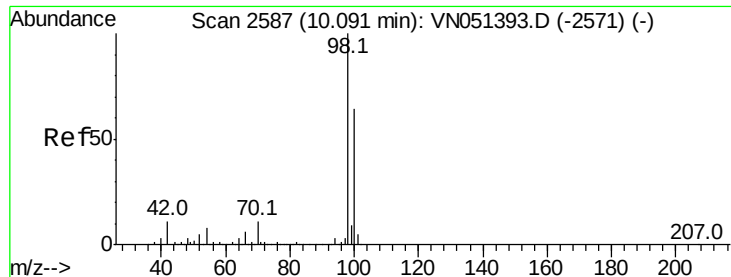
69 0.0 70.4 105.6#

39 8.8 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: 45.885 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051581.D

Acq: 27 Sep 2018 13:52

Instrument :

MSVOA_N

ClientSampleId :

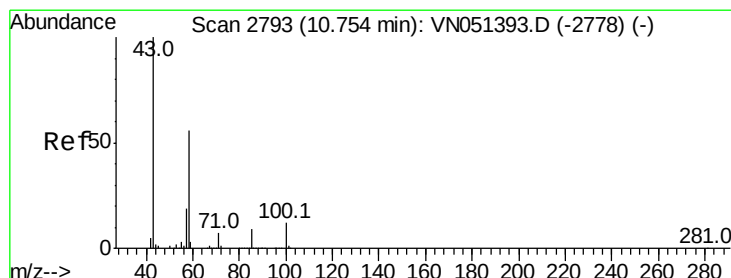
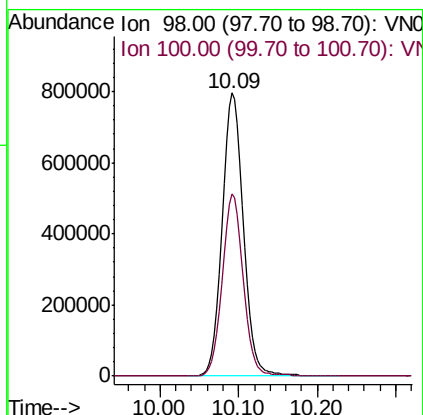
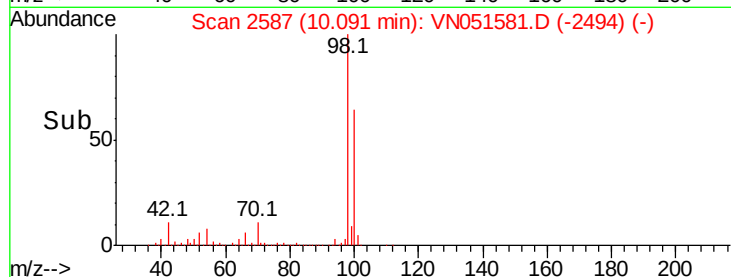
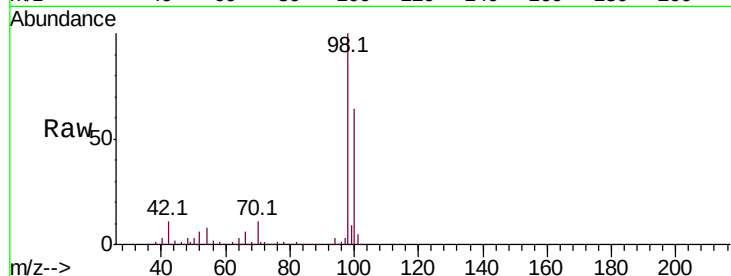
CL-02-092518-A

Tot Ion: 98 Resp: 1479599

Ion Ratio Lower Upper

98 100

100 63.5 50.6 75.8



#59

2-Hexanone

Concen: 3.450 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051581.D

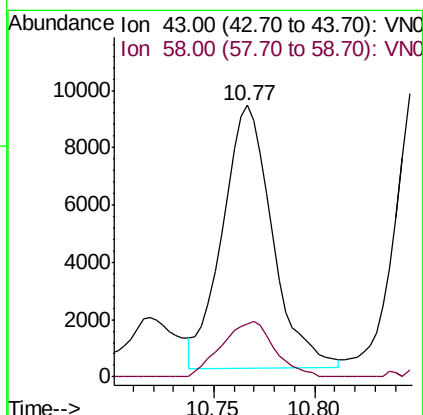
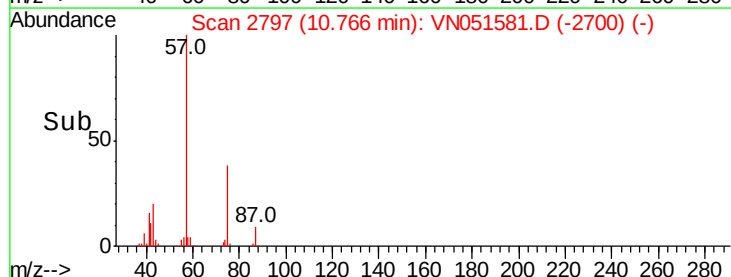
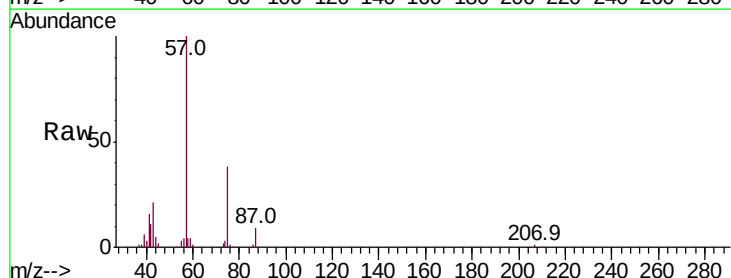
Acq: 27 Sep 2018 13:52

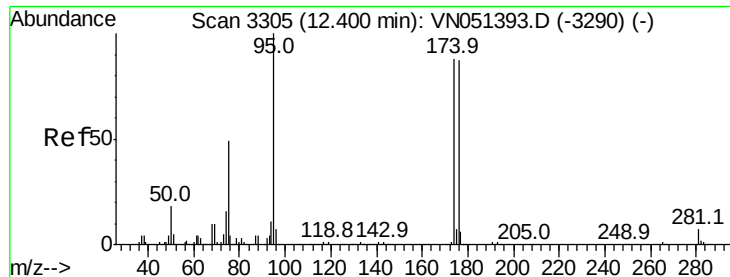
Tgt Ion: 43 Resp: 15856

Ion Ratio Lower Upper

43 100

58 22.3 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 38.067 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051581.D

Acq: 27 Sep 2018 13:52

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-A

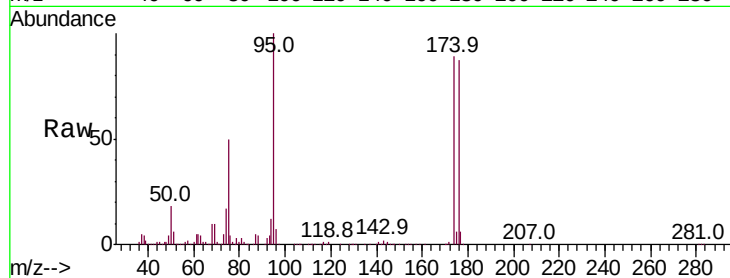
Tot Ion: 95 Resp: 397092

Ion Ratio Lower Upper

95 100

174 89.3 0.0 181.6

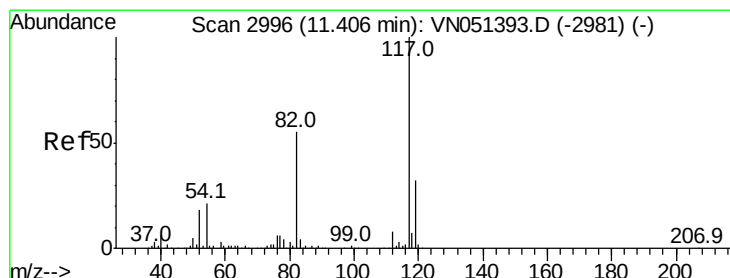
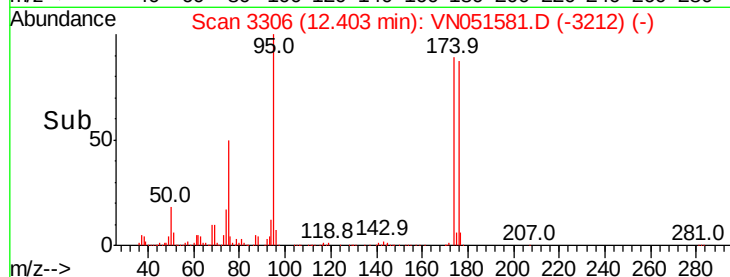
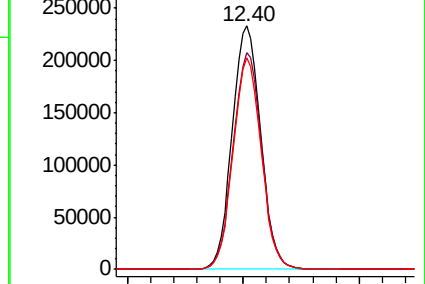
176 85.7 0.0 176.4



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# 2997

Delta R.T. 0.00 min

Lab File: VN051581.D

Acq: 27 Sep 2018 13:52

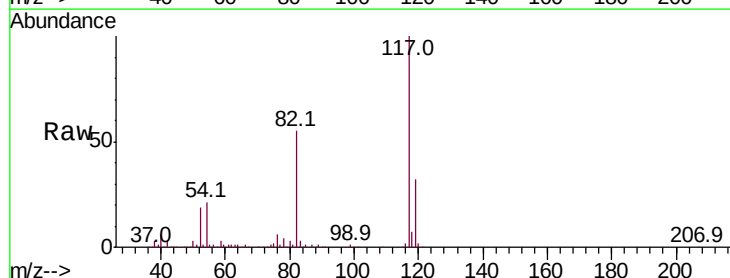
Tgt Ion: 117 Resp: 883919

Ion Ratio Lower Upper

117 100

82 55.0 44.2 66.2

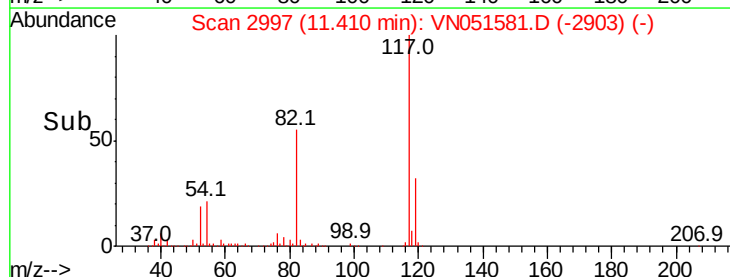
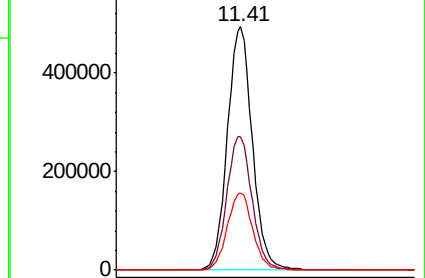
119 31.8 25.9 38.9

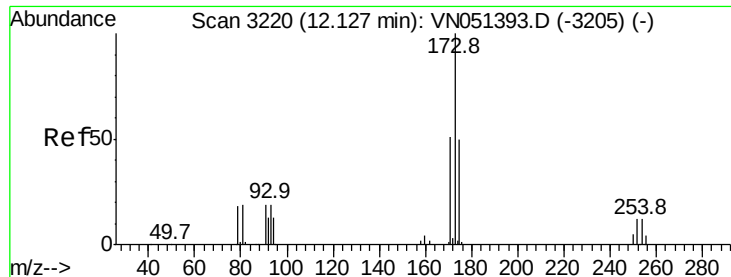


Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

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

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





#71

Bromoform

Concen: 0.266 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN051581.D

Acq: 27 Sep 2018 13:52

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-A

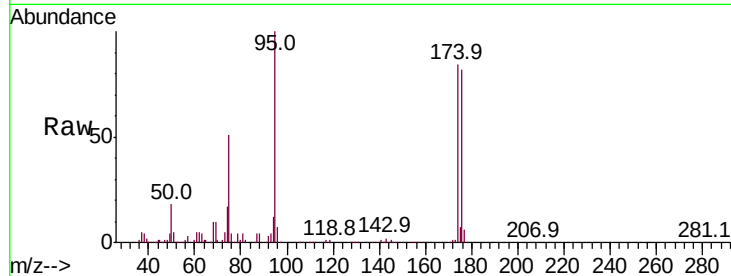
Tot Ion:173 Resp: 1561

Ion Ratio Lower Upper

173 100

175 1417.8 24.8 74.3#

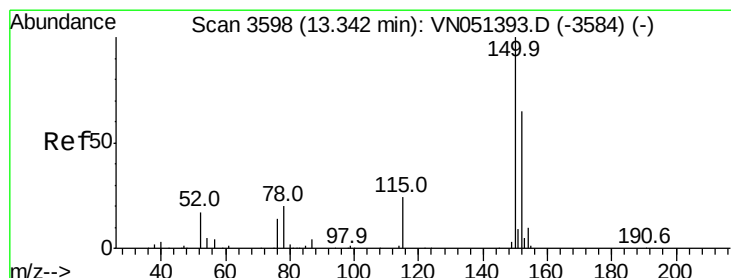
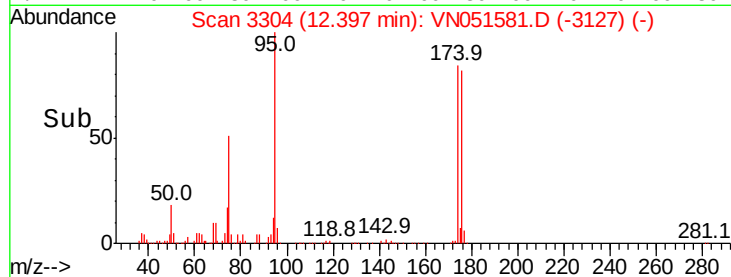
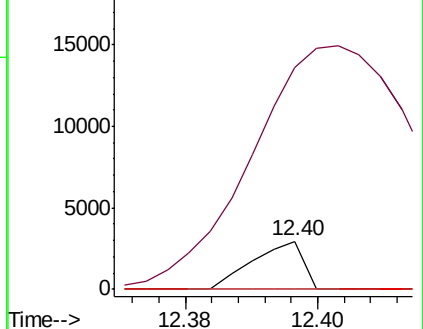
254 0.0 0.2 0.2#



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: VN051581.D

Acq: 27 Sep 2018 13:52

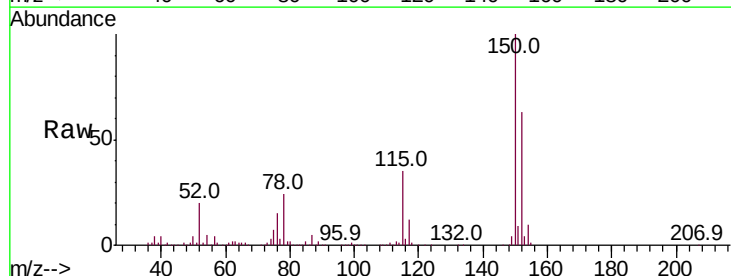
Tgt Ion:152 Resp: 317951

Ion Ratio Lower Upper

152 100

115 56.0 28.3 84.9

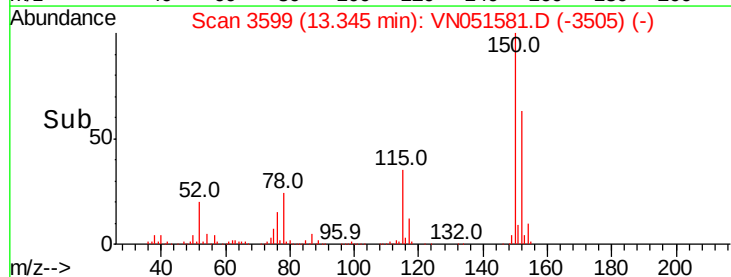
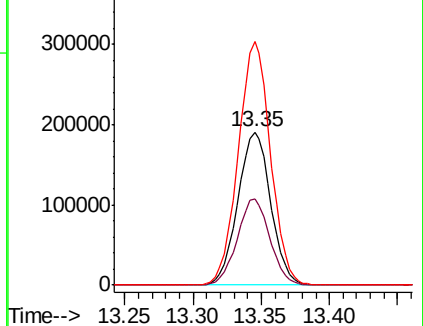
150 156.3 0.0 353.6

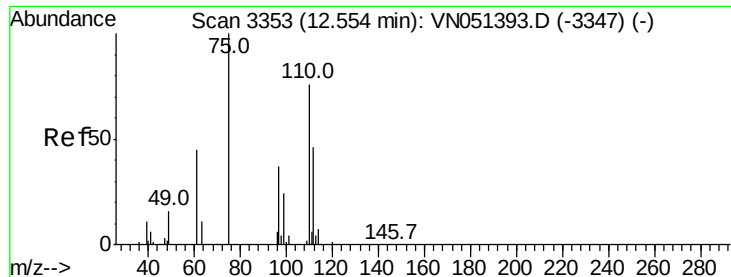


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 37.610 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051581.D

Acq: 27 Sep 2018 13:52

Instrument :

MSVOA_N

ClientSampleId :

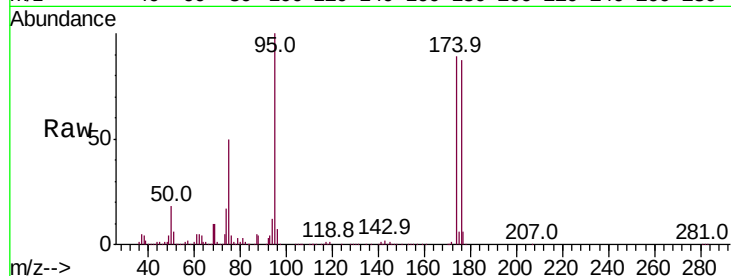
CL-02-092518-A

Tot Ion: 75 Resp: 198515

Ion Ratio Lower Upper

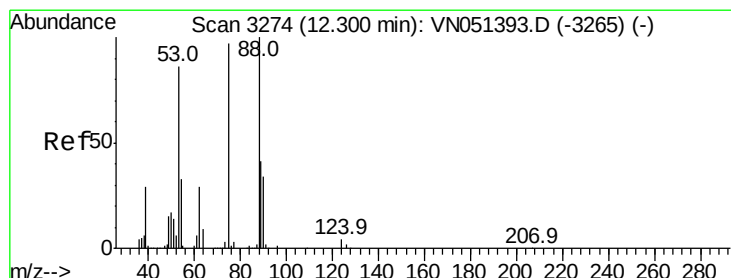
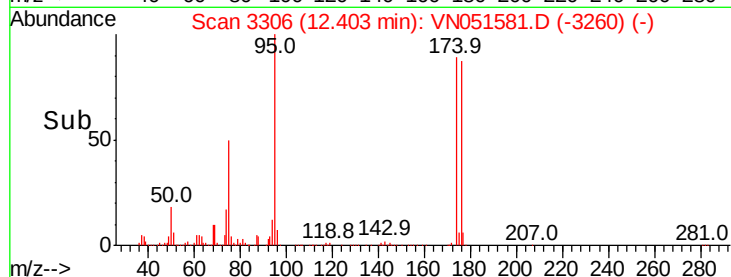
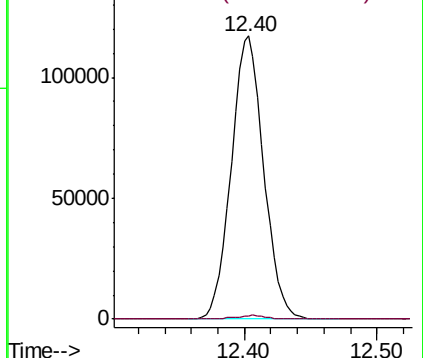
75 100

77 1.4 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: 115.650 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051581.D

Acq: 27 Sep 2018 13:52

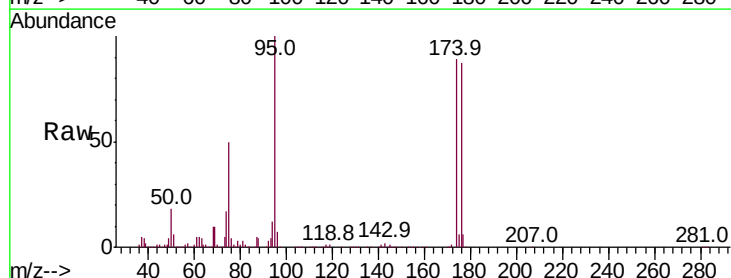
Tgt Ion: 75 Resp: 198515

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

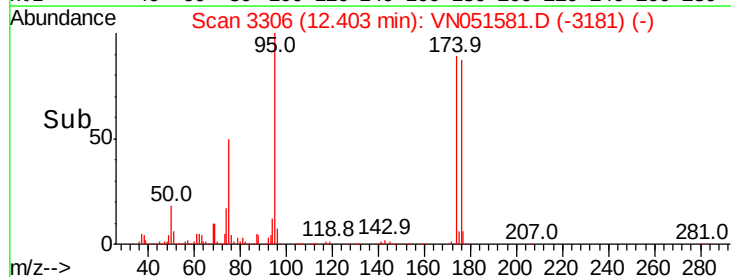
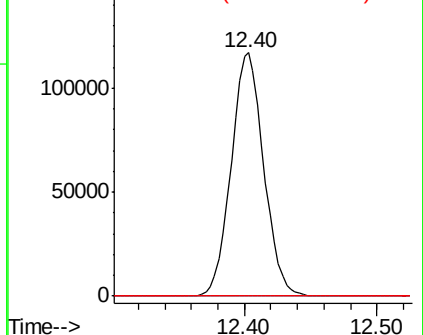
89 0.0 36.7 55.1#

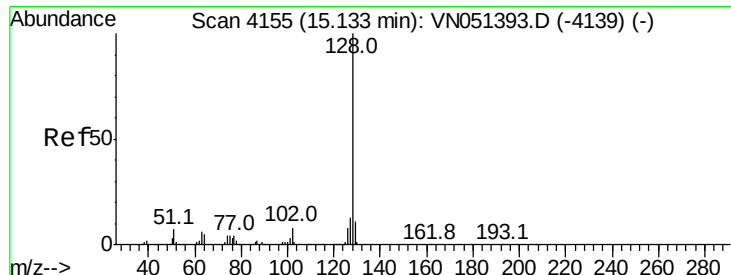


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 8.796 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051581.D

Acq: 27 Sep 2018 13:52

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-A

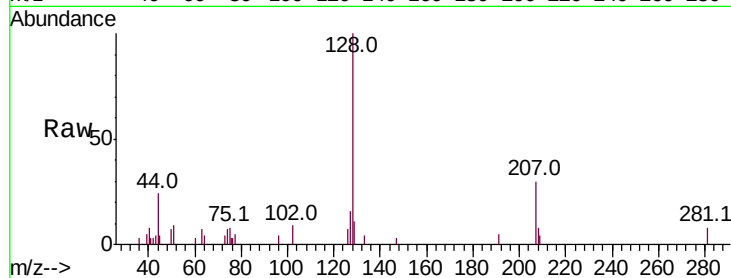
Tot Ion:128 Resp: 10584

Ion Ratio Lower Upper

128 100

127 12.3 10.5 15.7

129 9.9 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

