

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090219\
 Data File : VN057636.D
 Acq On : 1 Sep 2019 11:49
 Operator : JC/SP
 Sample : K4571-04
 Misc : 6.63g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RBR-200028

Quant Time: Sep 02 01:50:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 31 15:54:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	296933	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	509449	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	418916	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	153637	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	247538	36.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.80%	
35) Dibromofluoromethane	7.58	113	149746	33.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	67.32%	
50) Toluene-d8	10.08	98	621735	36.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.80%	
62) 4-Bromofluorobenzene	12.40	95	201551	31.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	62.06%	

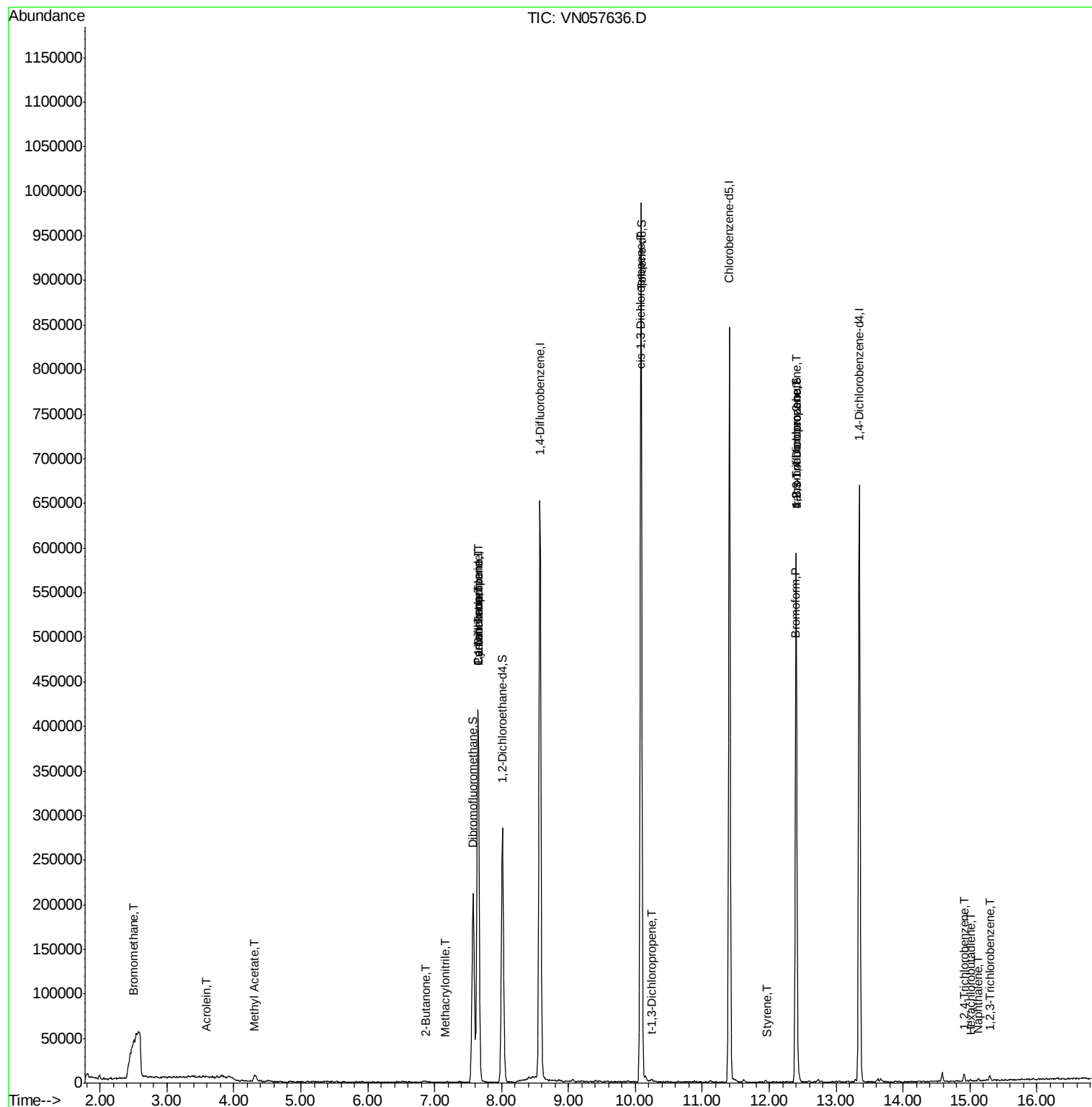
Target Compounds						Qvalue
5) Bromomethane	2.50	94	804	0.296	ug/l #	52
13) Acrolein	3.58	56	282	1.008	ug/l #	61
18) Methyl Acetate	4.32	43	15888	2.461	ug/l #	77
25) 2-Butanone	6.86	43	3447	1.100	ug/l #	82
31) Cyclohexane	7.64	56	10707	1.205	ug/l #	49
36) 1,1-Dichloropropene	7.65	75	29799	4.412	ug/l #	50
38) Carbon Tetrachloride	7.65	117	33367	5.519	ug/l #	13
41) Methacrylonitrile	7.17	41	31	2.291	ug/l #	21
53) t-1,3-Dichloropropene	10.24	75	1135	3.359	ug/l #	45
54) cis-1,3-Dichloropropene	10.07	75	72	1.821	ug/l #	17
70) Styrene	11.97	104	30	2.585	ug/l #	23
71) Bromoform	12.38	173	119	6.258	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	119859	29.658	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	119859	101.663	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	2491	9.229	ug/l	99
94) Hexachlorobutadiene	15.01	225	477	0.271	ug/l #	57
95) Naphthalene	15.13	128	2360	7.210	ug/l	96
96) 1,2,3-Trichlorobenzene	15.29	180	1874	8.474	ug/l	93

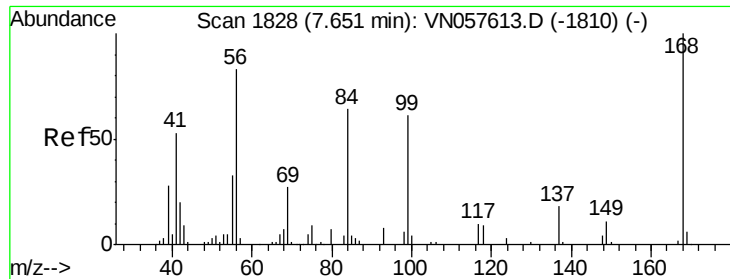
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Aug 31 15:54:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

Instrument :

MSVOA_N

ClientSampleId :

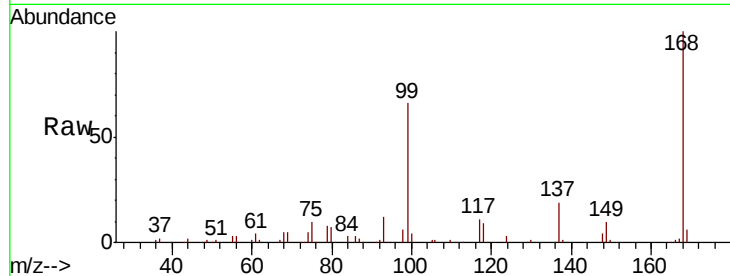
RBR-200028

Tgt Ion:168 Resp: 296933

Ion Ratio Lower Upper

168 100

99 66.0 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

150000

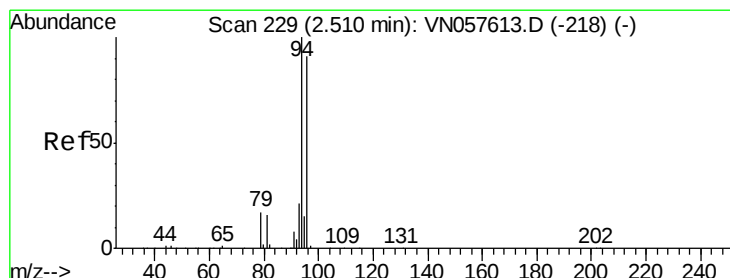
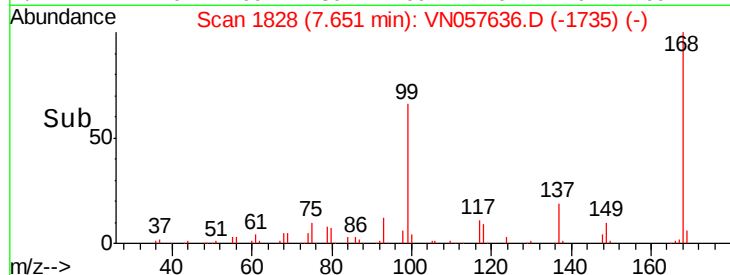
100000

50000

0

Time-->

7.60 7.70



#5

Bromomethane

Concen: 0.296 ug/l

RT: 2.50 min Scan# 227

Delta R.T. -0.01 min

Lab File: VN057636.D

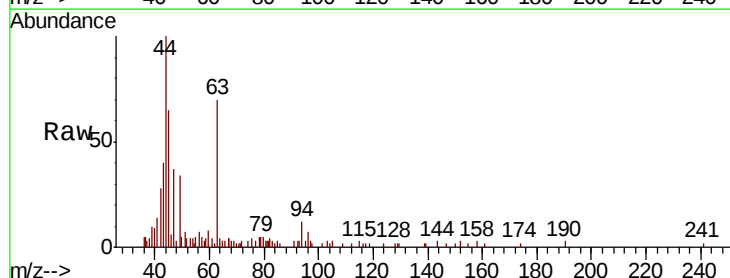
Acq: 1 Sep 2019 11:49

Tgt Ion: 94 Resp: 804

Ion Ratio Lower Upper

94 100

96 45.2 72.9 109.3#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.50

800

600

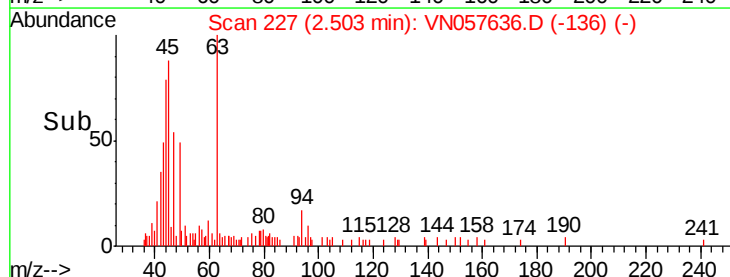
400

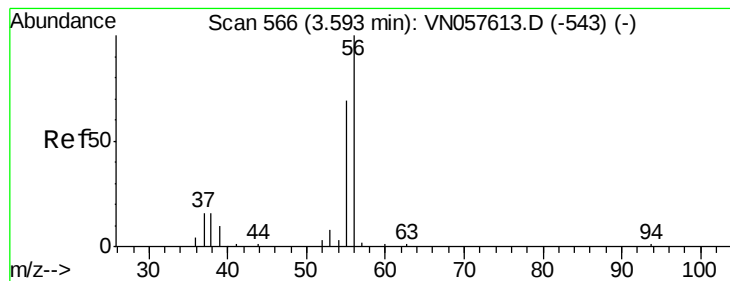
200

0

Time-->

2.48 2.50 2.52





#13

Acrolein

Concen: 1.008 ug/l

RT: 3.58 min Scan# 563

Delta R.T. -0.01 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

Instrument :

MSVOA_N

ClientSampled :

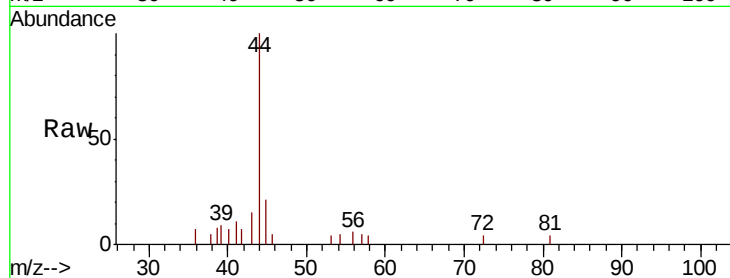
RBR-200028

Tgt Ion: 56 Resp: 282

Ion Ratio Lower Upper

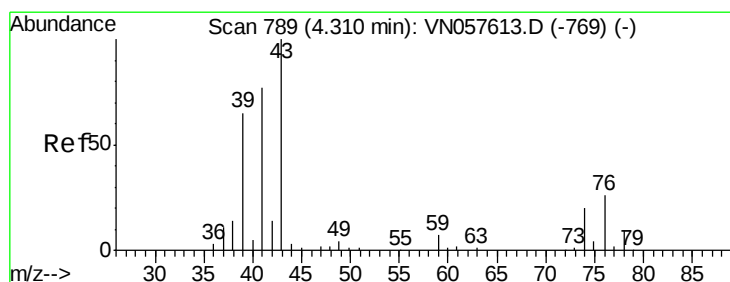
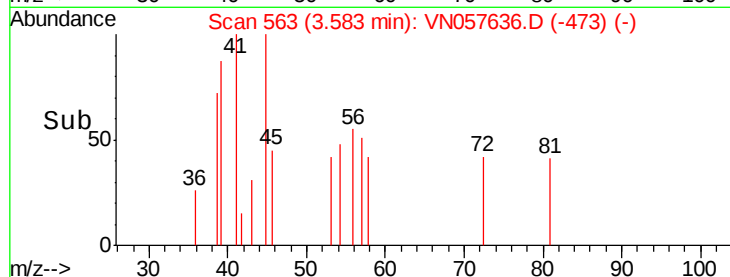
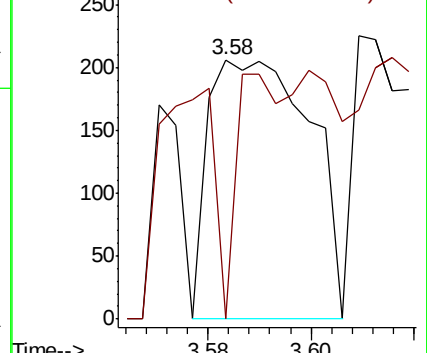
56 100

55 38.3 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#18

Methyl Acetate

Concen: 2.461 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN057636.D

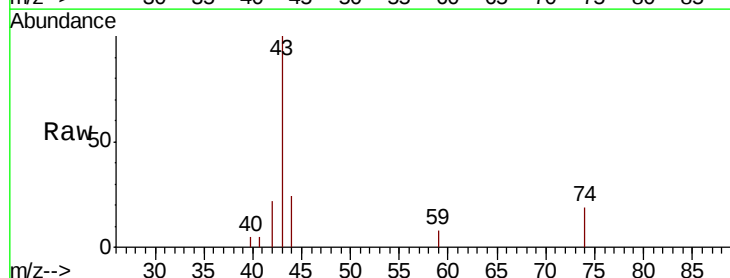
Acq: 1 Sep 2019 11:49

Tgt Ion: 43 Resp: 15888

Ion Ratio Lower Upper

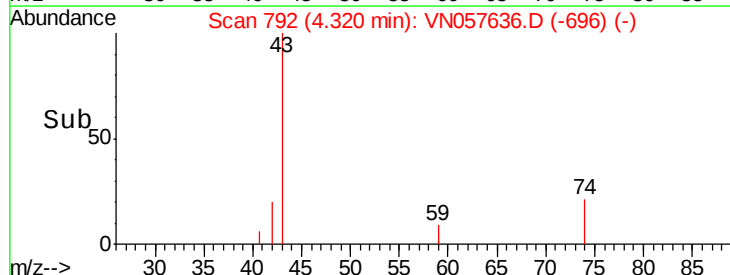
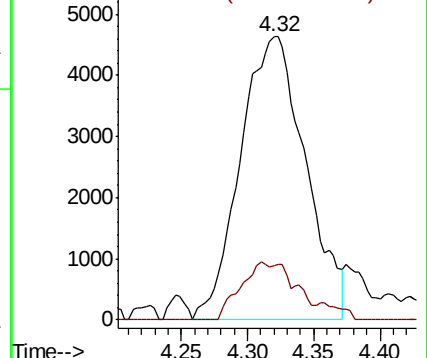
43 100

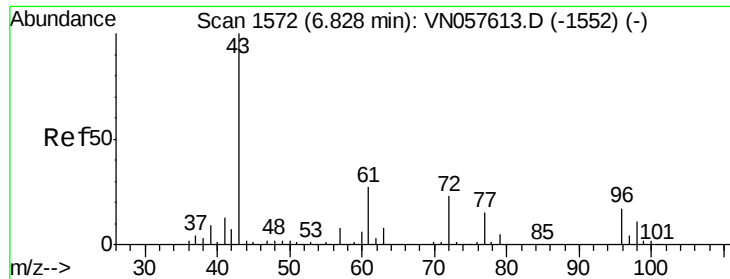
74 9.2 15.7 23.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

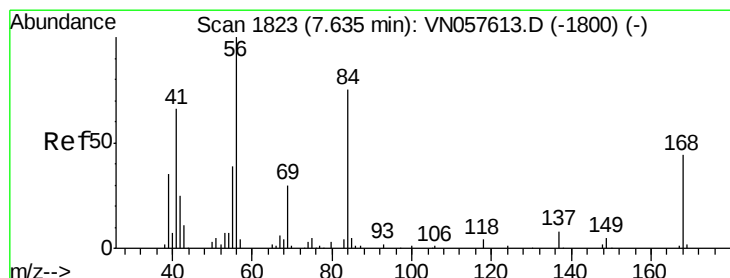
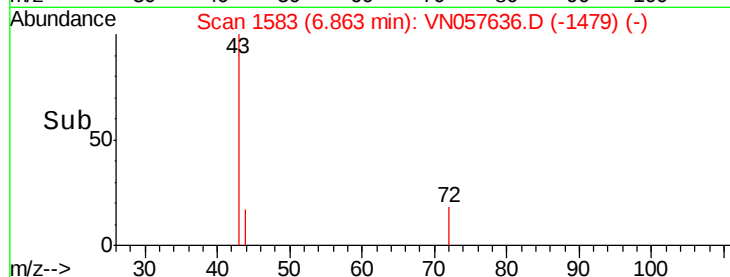
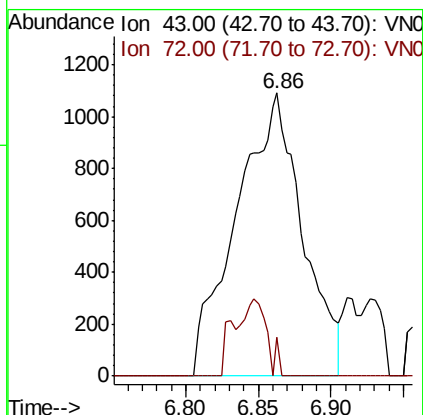
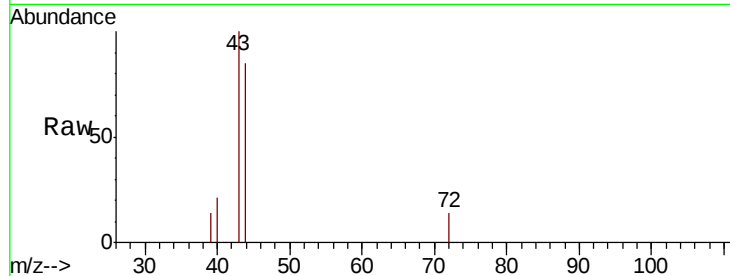




#25
2-Butanone
Concen: 1.100 ug/l
RT: 6.86 min Scan# 1583
Delta R.T. 0.04 min
Lab File: VN057636.D
Acq: 1 Sep 2019 11:49

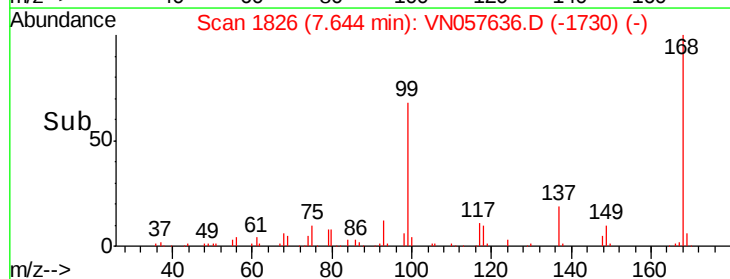
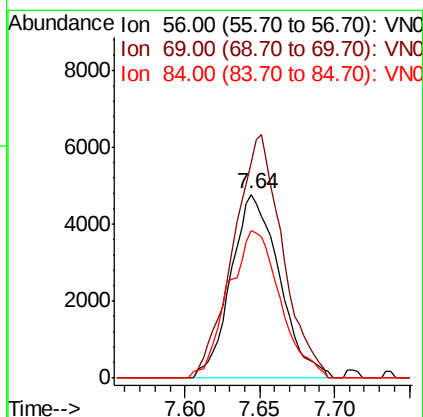
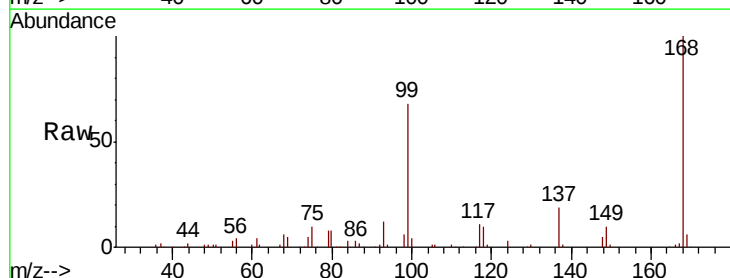
Instrument :
MSVOA_N
ClientSampled :
RBR-200028

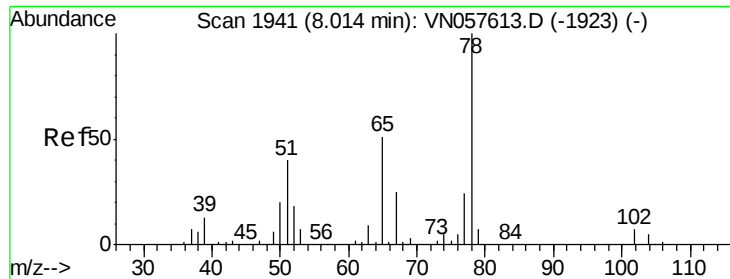
Tgt Ion: 43 Resp: 3447
Ion Ratio Lower Upper
43 100
72 13.9 18.2 27.4#



#31
Cyclohexane
Concen: 1.205 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN057636.D
Acq: 1 Sep 2019 11:49

Tgt Ion: 56 Resp: 10707
Ion Ratio Lower Upper
56 100
69 117.3 24.4 36.6#
84 80.6 59.9 89.9





#33

1,2-Dichloroethane-d4

Concen: 36.904 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. -0.00 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

Instrument :

MSVOA_N

ClientSampleId :

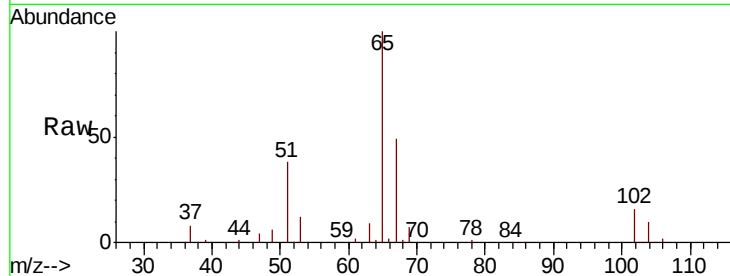
RBR-200028

Tgt Ion: 65 Resp: 247538

Ion Ratio Lower Upper

65 100

67 49.8 0.0 102.2



Abundance Ion 64.90 (64.60 to 65.60): VN057613.D (-1923) (-)

Ion 66.90 (66.60 to 67.60): VN057613.D (-1923) (-)

8.01

120000

100000

80000

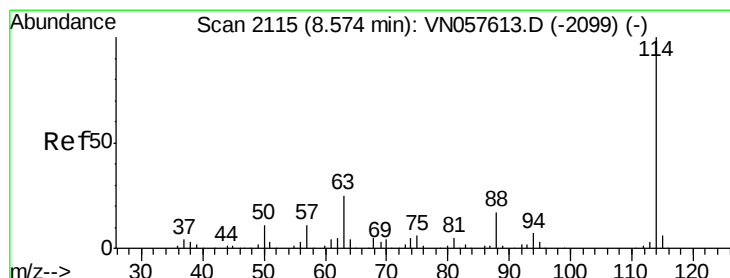
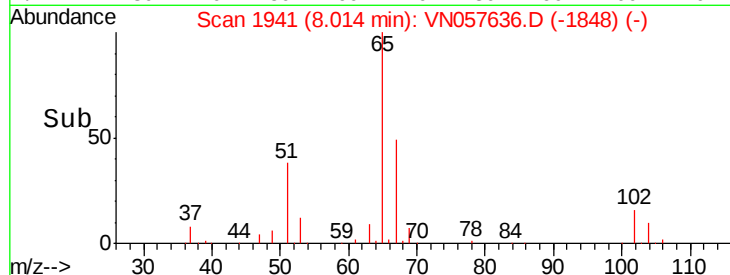
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

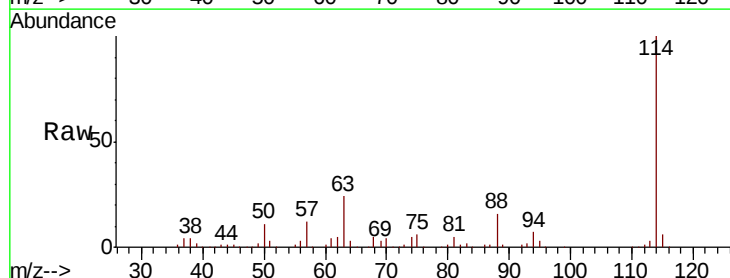
Tgt Ion: 114 Resp: 509449

Ion Ratio Lower Upper

114 100

63 24.4 0.0 49.0

88 16.1 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): VN057613.D (-2099) (-)

Ion 63.00 (62.70 to 63.70): VN057613.D (-2099) (-)

Ion 87.90 (87.60 to 88.60): VN057613.D (-2099) (-)

8.57

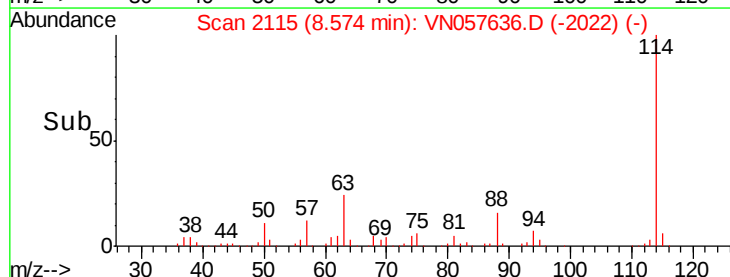
300000

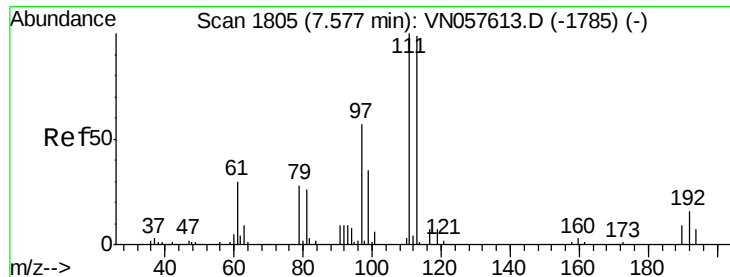
200000

100000

0

Time-->

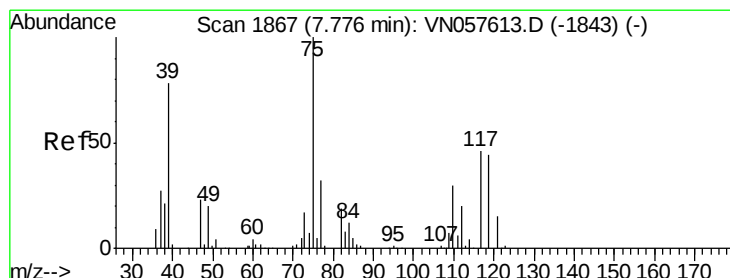
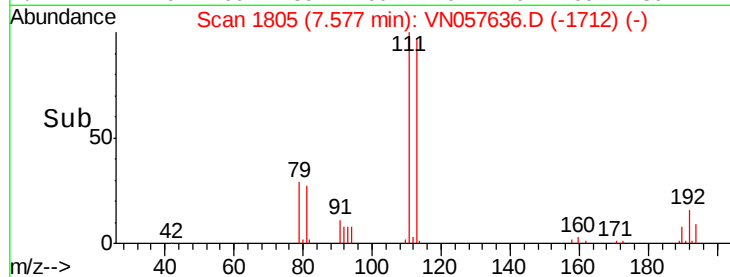
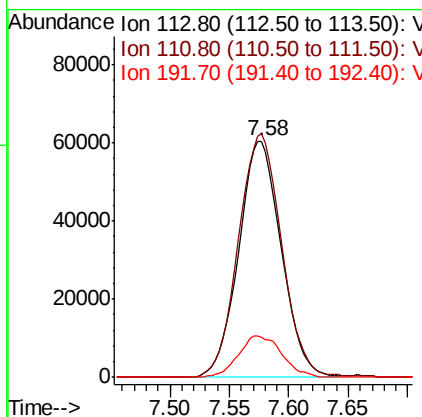
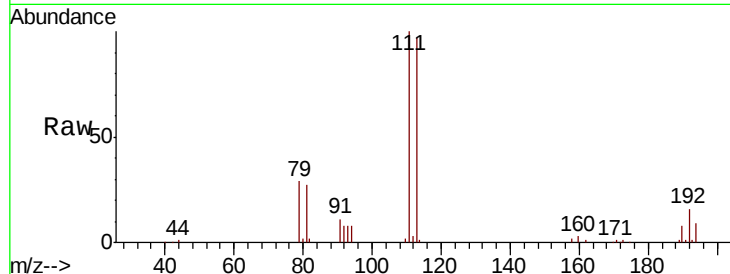




#35
 Dibromofluoromethane
 Concen: 33.659 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VN057636.D
 Acq: 1 Sep 2019 11:49

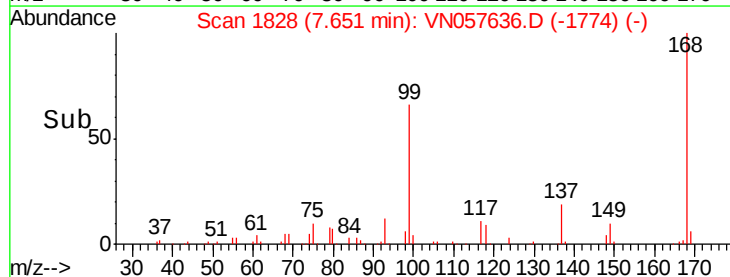
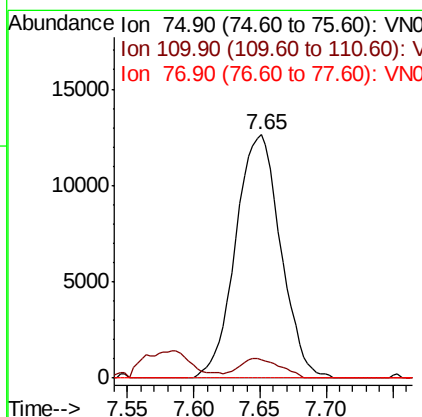
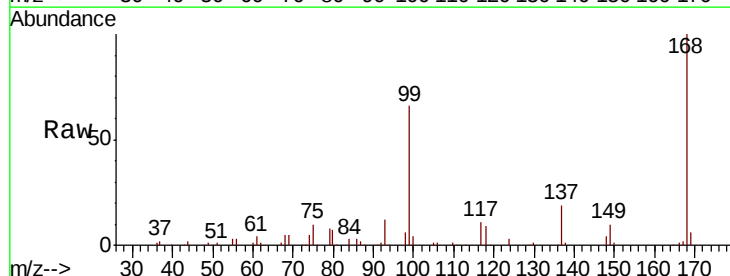
Instrument :
 MSVOA_N
 ClientSampleId :
 RBR-200028

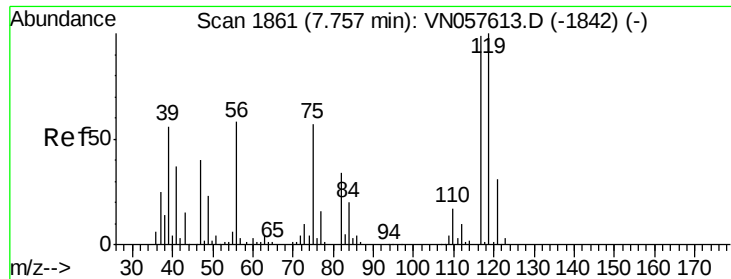
Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.0	81.3	121.9
192	18.0	13.5	20.3



#36
 1,1-Dichloropropene
 Concen: 4.412 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057636.D
 Acq: 1 Sep 2019 11:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.4	15.6	46.8#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 5.519 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

Instrument :

MSVOA_N

ClientSampleId :

RBR-200028

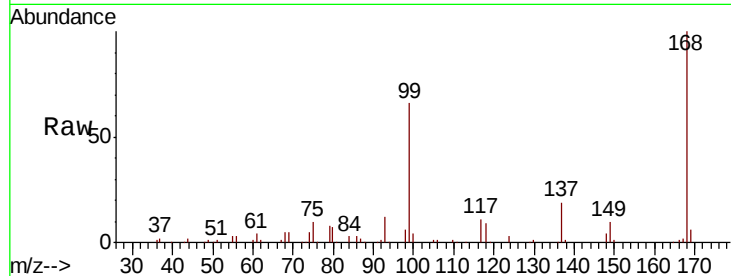
Tgt Ion:117 Resp: 33367

Ion Ratio Lower Upper

117 100

119 4.0 80.6 120.8#

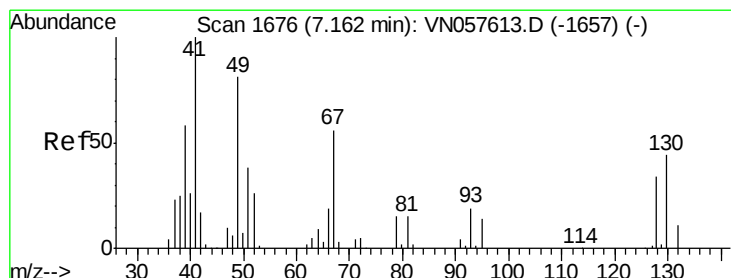
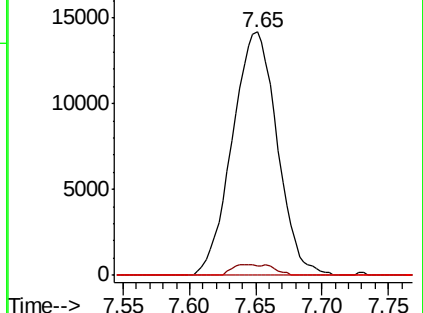
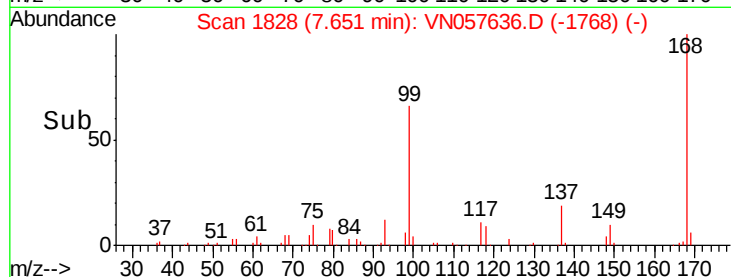
121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 2.291 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.01 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

Tgt Ion: 41 Resp: 31

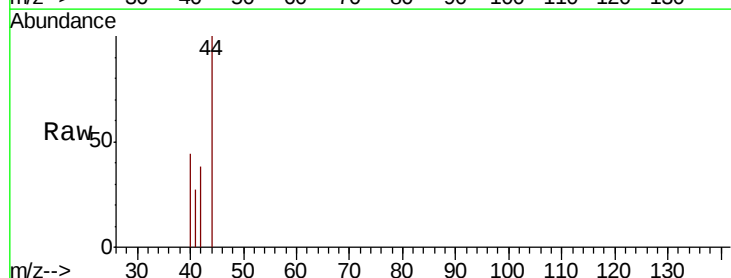
Ion Ratio Lower Upper

41 100

39 0.0 50.6 75.8#

67 0.0 56.9 85.3#

52 0.0 27.4 41.2#

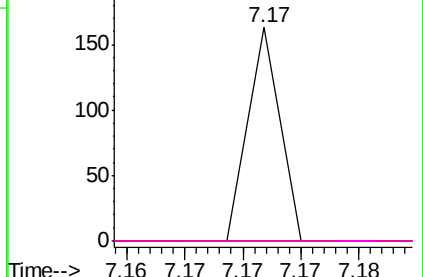
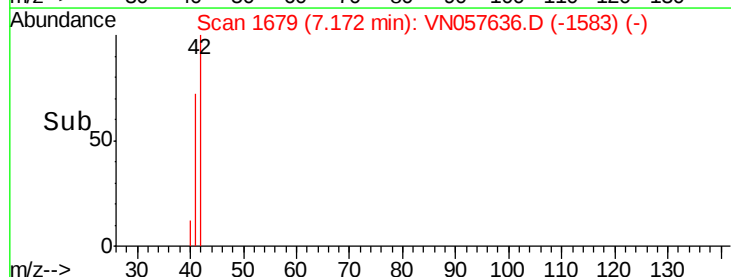


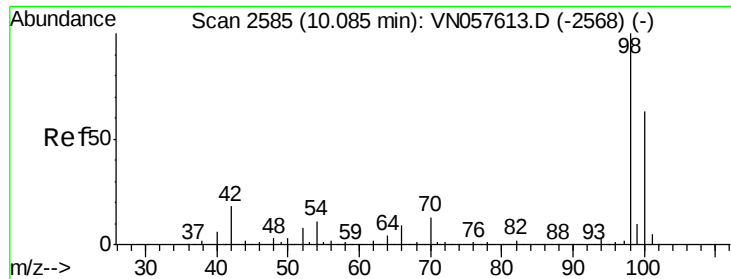
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#50

Toluene-d8

Concen: 36.400 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

Instrument :

MSVOA_N

ClientSampleId :

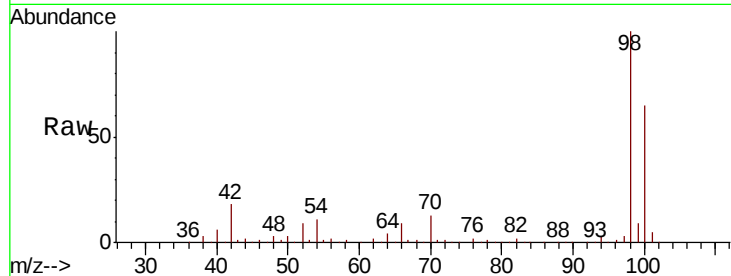
RBR-200028

Tgt Ion: 98 Resp: 621735

Ion Ratio Lower Upper

98 100

100 64.0 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

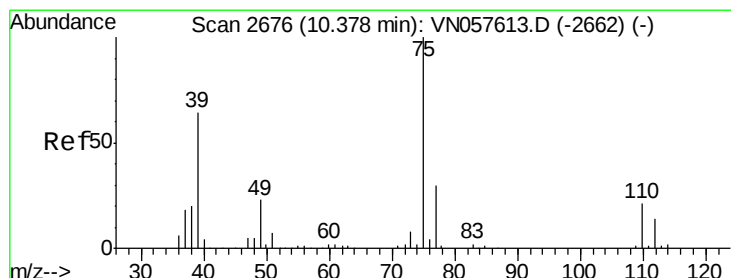
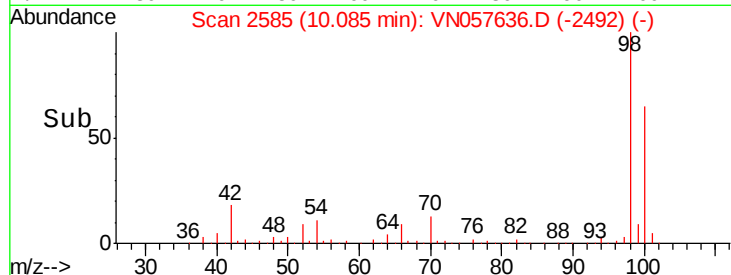
300000

200000

100000

0

Time-->



#53

t-1,3-Dichloropropene

Concen: 3.359 ug/l

RT: 10.24 min Scan# 2634

Delta R.T. -0.13 min

Lab File: VN057636.D

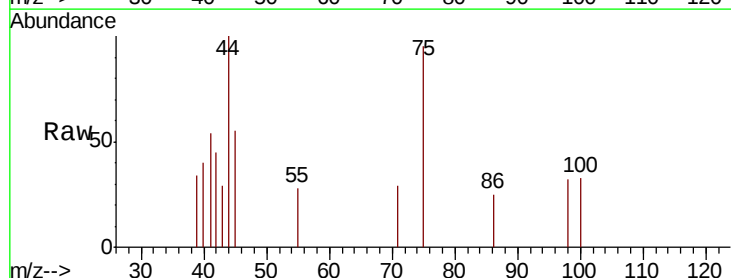
Acq: 1 Sep 2019 11:49

Tgt Ion: 75 Resp: 1135

Ion Ratio Lower Upper

75 100

77 0.0 24.1 36.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.24

800

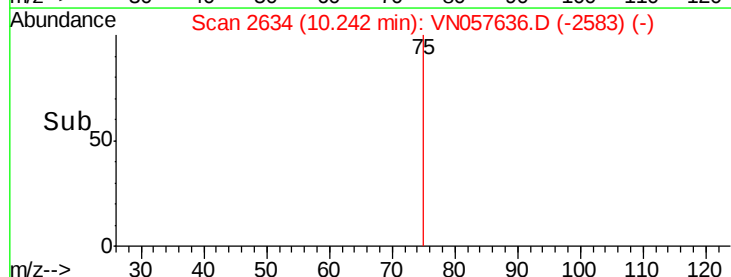
600

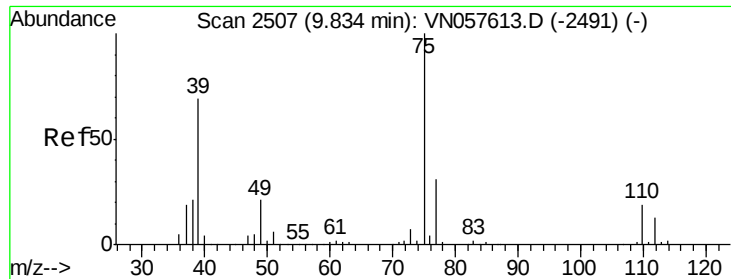
400

200

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 1.821 ug/l

RT: 10.07 min Scan# 2579

Delta R.T. 0.23 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

Instrument :

MSVOA_N

ClientSampled :

RBR-200028

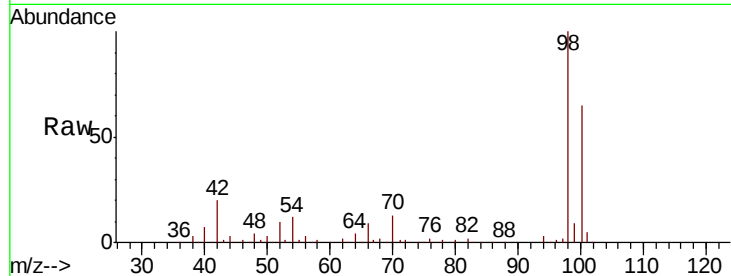
Tgt Ion: 75 Resp: 72

Ion Ratio Lower Upper

75 100

77 94.1 24.8 37.2#

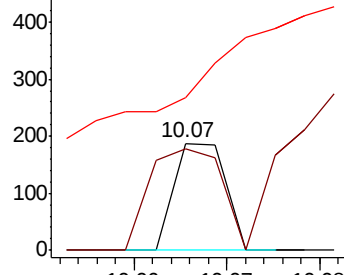
39 13.3 55.0 82.4#



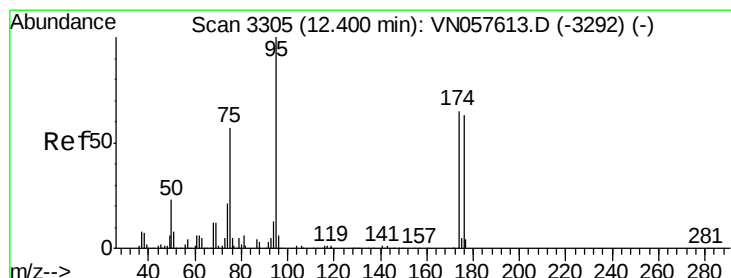
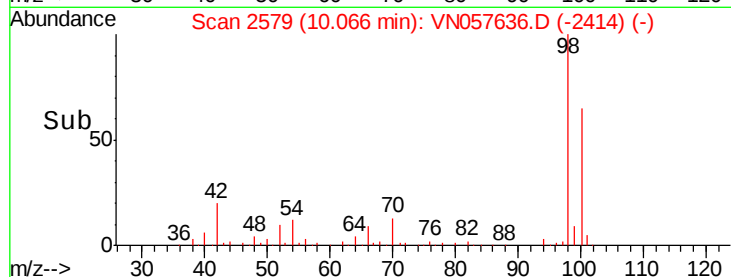
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time-->



#62

4-Bromofluorobenzene

Concen: 31.031 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

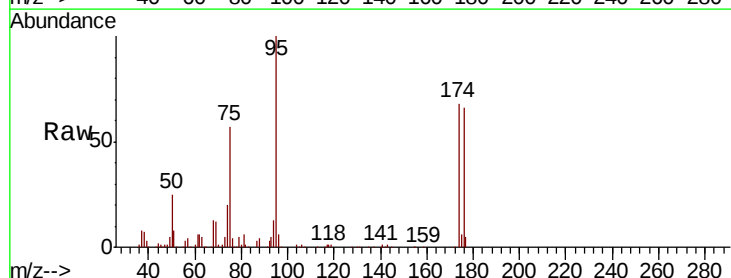
Tgt Ion: 95 Resp: 201551

Ion Ratio Lower Upper

95 100

174 67.9 0.0 134.8

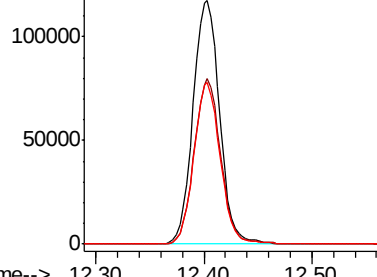
176 65.7 0.0 131.6



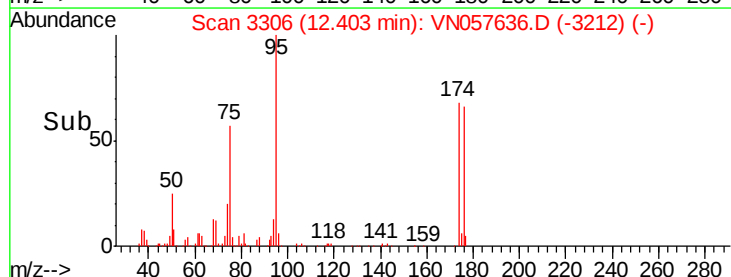
Abundance Ion 94.90 (94.60 to 95.60): VN0

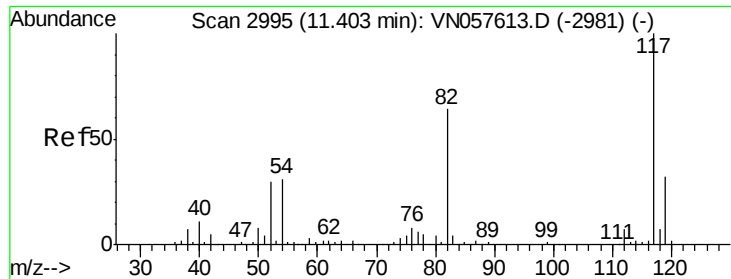
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

Instrument :

MSVOA_N

ClientSampleId :

RBR-200028

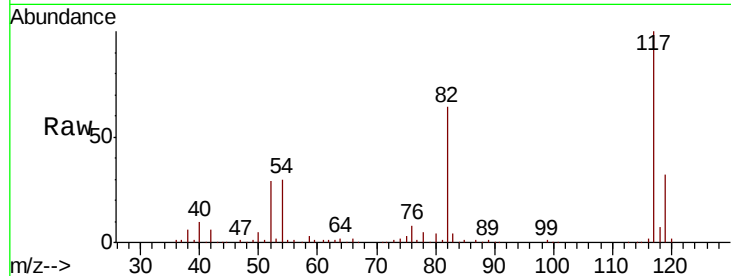
Tgt Ion:117 Resp: 418916

Ion Ratio Lower Upper

117 100

82 64.3 51.6 77.4

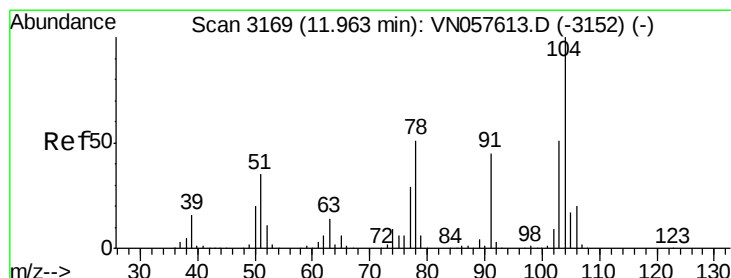
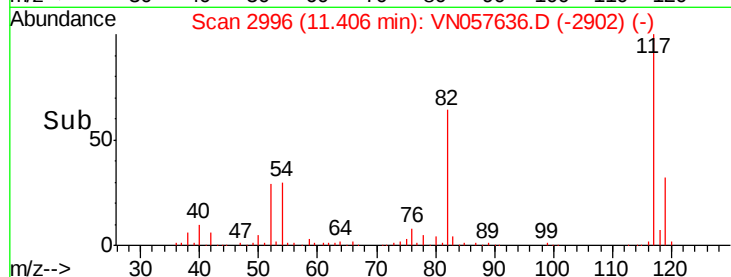
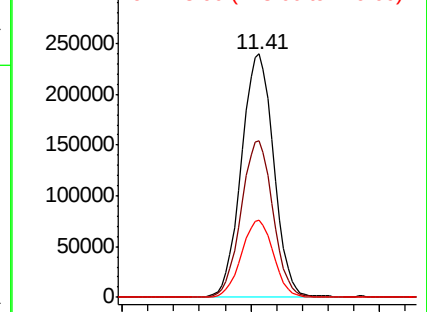
119 31.7 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#70

Styrene

Concen: 2.585 ug/l

RT: 11.97 min Scan# 3171

Delta R.T. 0.01 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

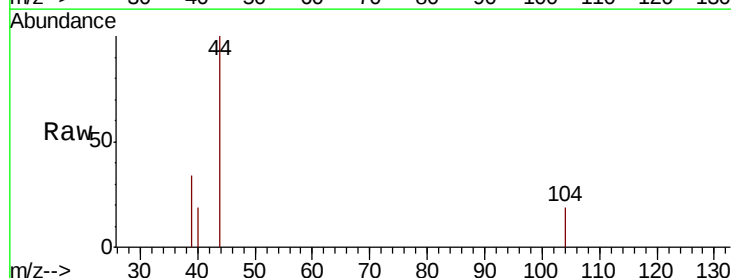
Tgt Ion:104 Resp: 30

Ion Ratio Lower Upper

104 100

78 0.0 46.6 70.0#

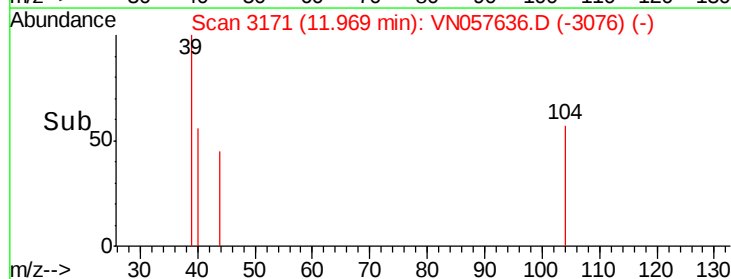
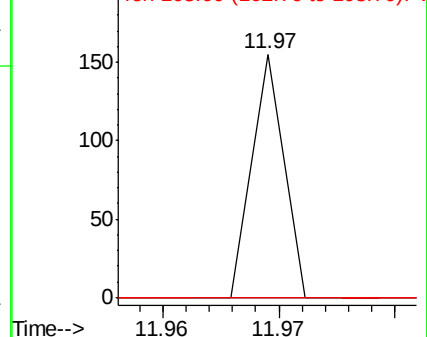
103 0.0 44.7 67.1#

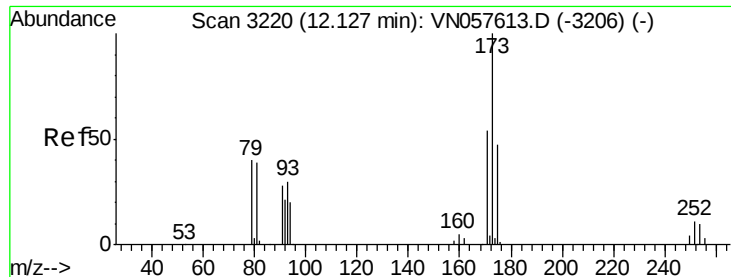


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 6.258 ug/l

RT: 12.38 min Scan# 3300

Delta R.T. 0.26 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

Instrument :

MSVOA_N

ClientSampleId :

RBR-200028

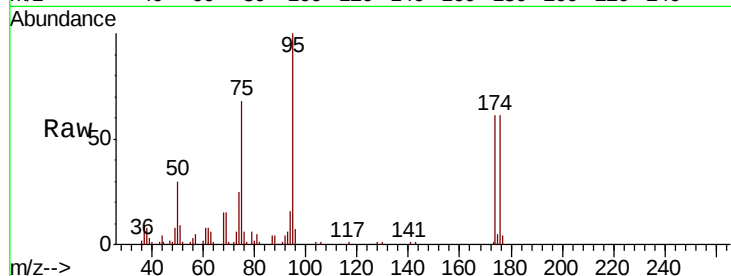
Tgt Ion:173 Resp: 119

Ion Ratio Lower Upper

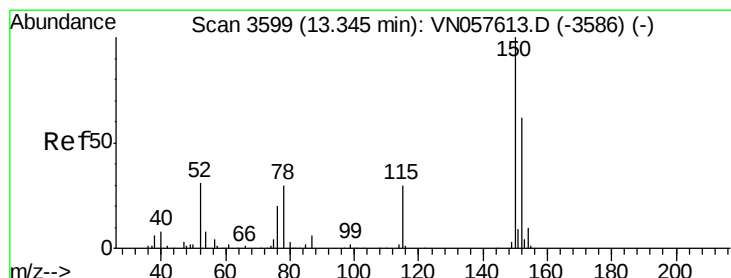
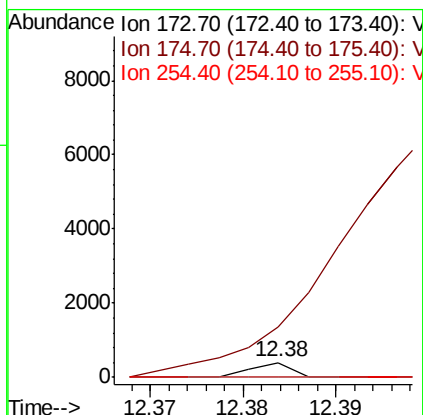
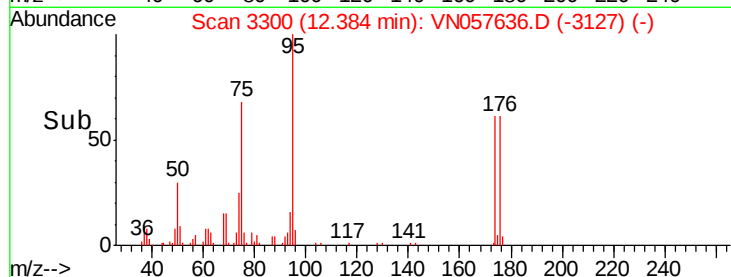
173 100

175 7720.2 24.4 73.4#

254 0.0 0.0 0.0



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: VN057636.D

Acq: 1 Sep 2019 11:49

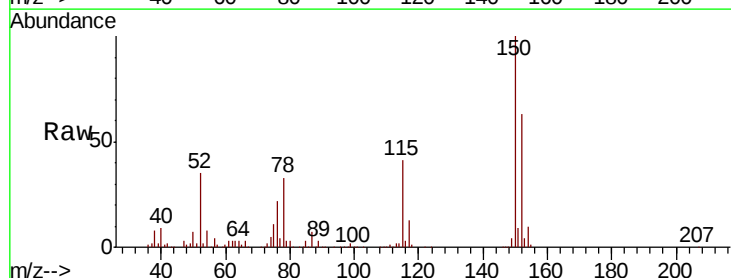
Tgt Ion:152 Resp: 153637

Ion Ratio Lower Upper

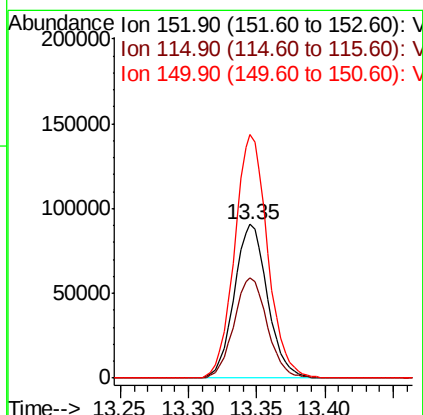
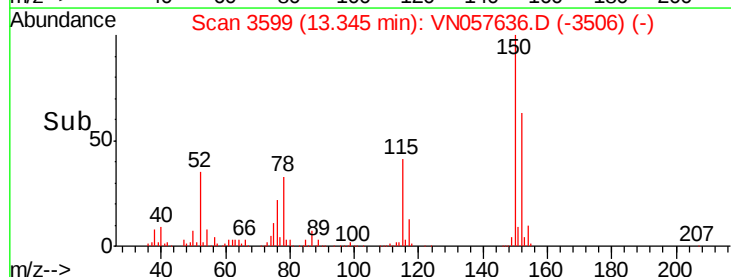
152 100

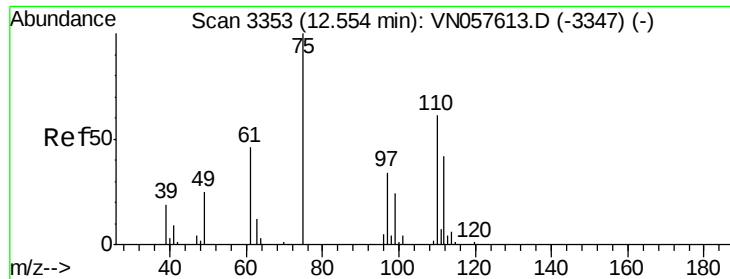
115 65.2 33.2 99.6

150 156.9 0.0 365.2



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: 29.658 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

Instrument :

MSVOA_N

ClientSampleId :

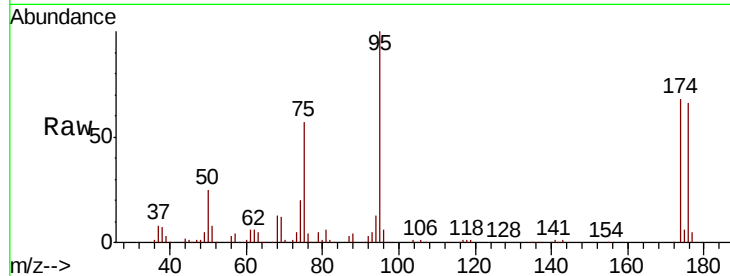
RBR-200028

Tgt Ion: 75 Resp: 119859

Ion Ratio Lower Upper

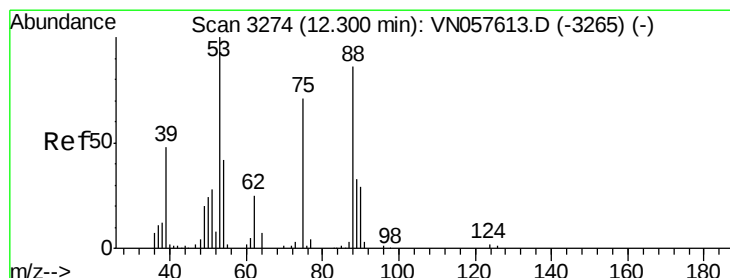
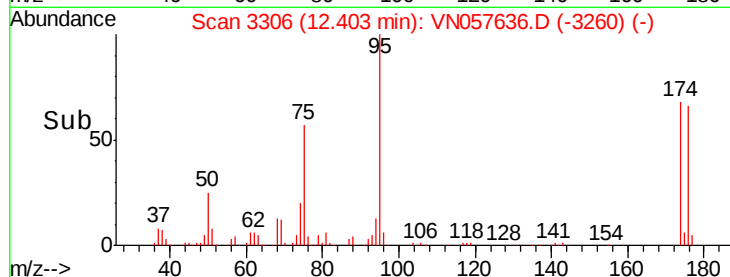
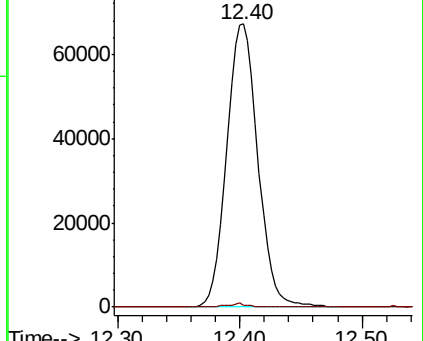
75 100

77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 101.663 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

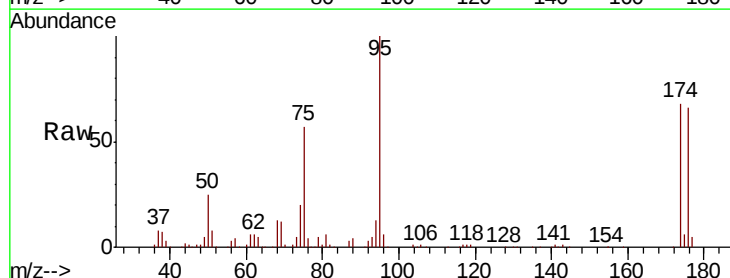
Tgt Ion: 75 Resp: 119859

Ion Ratio Lower Upper

75 100

53 0.0 111.0 166.6#

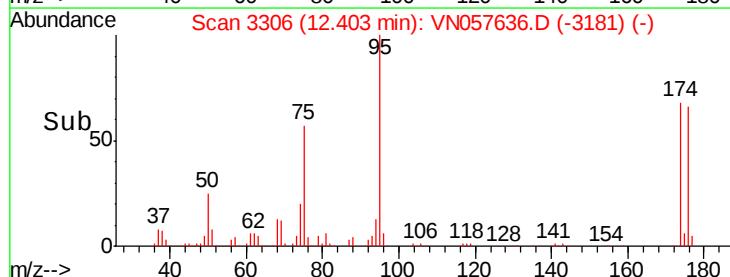
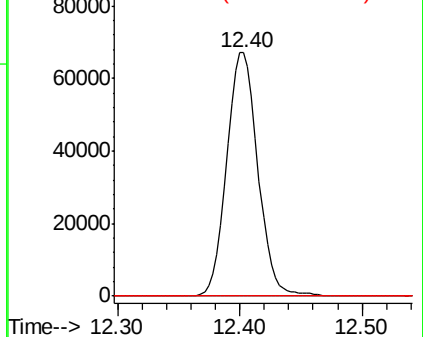
89 0.0 38.3 57.5#

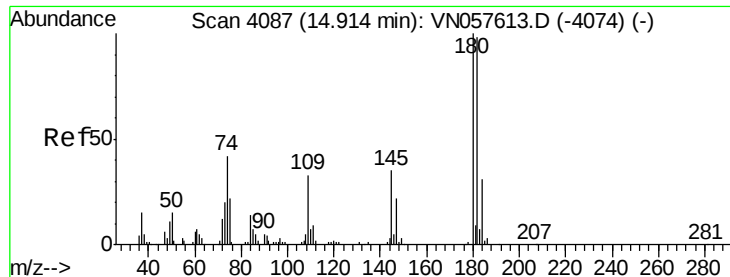


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

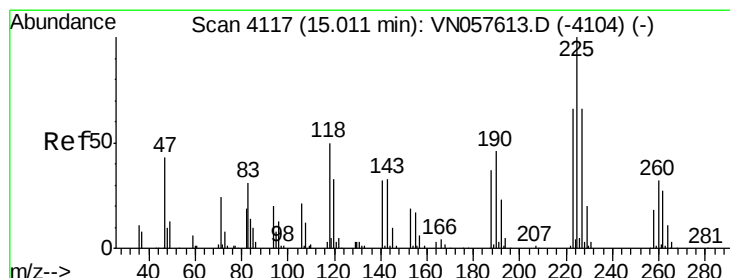
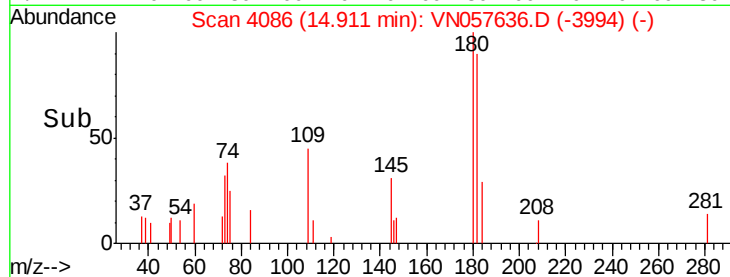
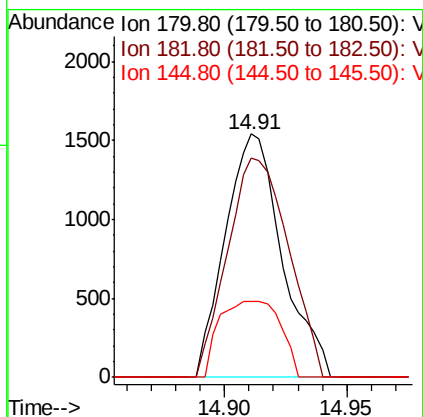
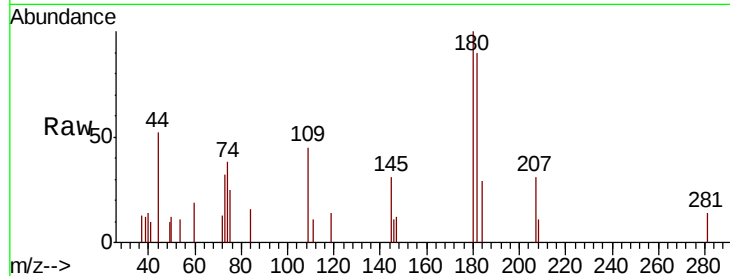




#93
 1,2,4-Trichlorobenzene
 Concen: 9.229 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN057636.D
 Acq: 1 Sep 2019 11:49

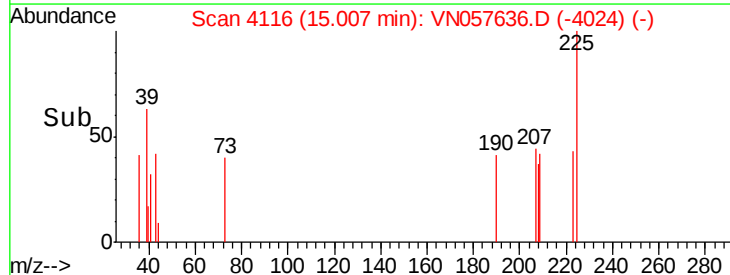
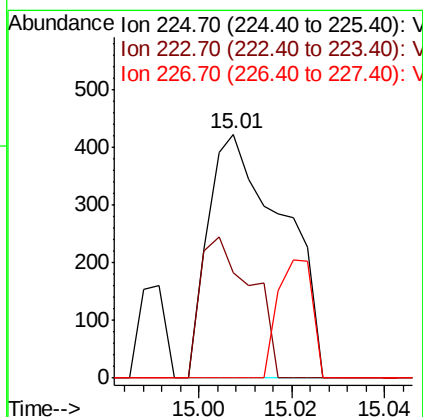
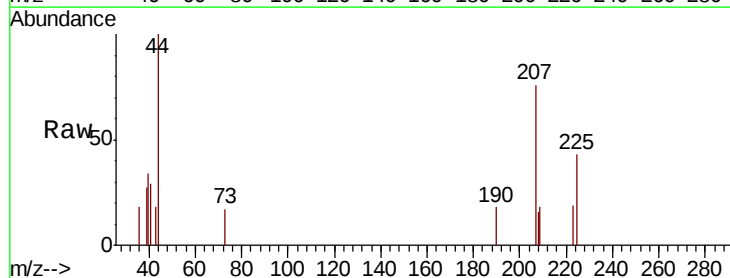
Instrument :
 MSVOA_N
 ClientSampled :
 RBR-200028

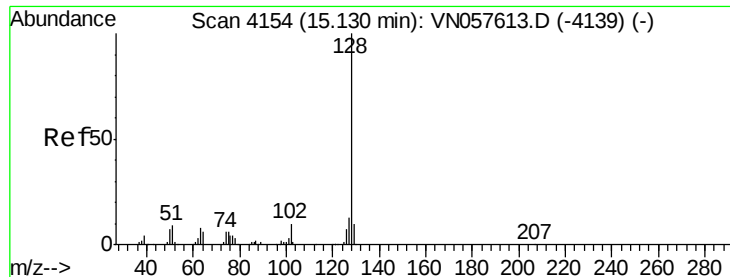
Tgt Ion:180 Resp: 2491
 Ion Ratio Lower Upper
 180 100
 182 96.9 47.8 143.3
 145 33.7 16.9 50.7



#94
 Hexachlorobutadiene
 Concen: 0.271 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN057636.D
 Acq: 1 Sep 2019 11:49

Tgt Ion:225 Resp: 477
 Ion Ratio Lower Upper
 225 100
 223 39.4 32.3 96.8
 227 22.6 32.4 97.2#





#95

Naphthalene

Concen: 7.210 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

Instrument :

MSVOA_N

ClientSampled :

RBR-200028

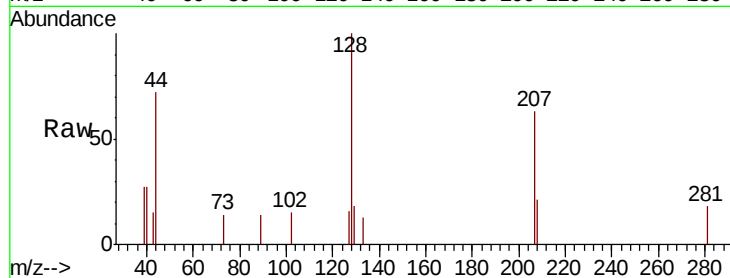
Tgt Ion:128 Resp: 2360

Ion Ratio Lower Upper

128 100

127 10.3 10.2 15.2

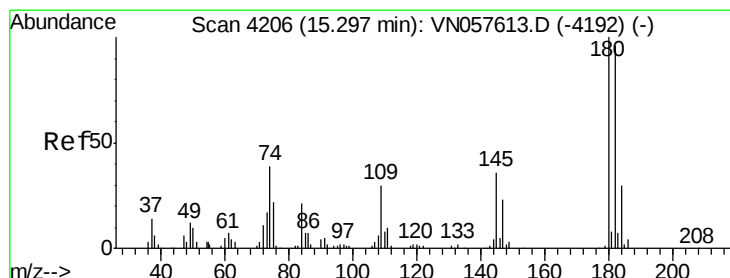
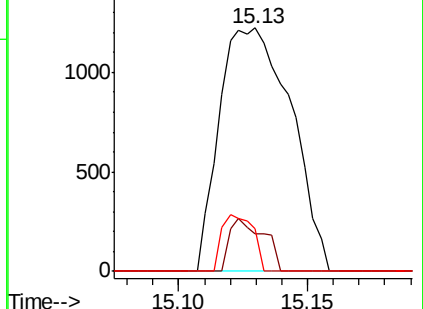
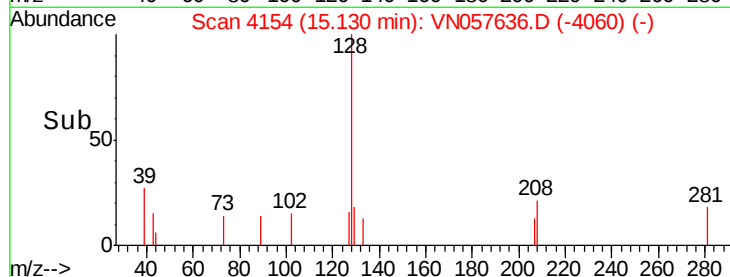
129 10.2 8.6 12.8



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



#96

1,2,3-Trichlorobenzene

Concen: 8.474 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. -0.00 min

Lab File: VN057636.D

Acq: 1 Sep 2019 11:49

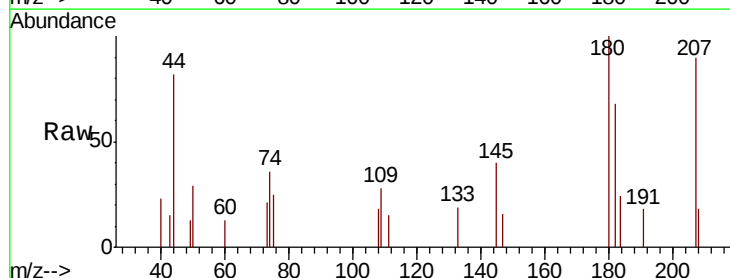
Tgt Ion:180 Resp: 1874

Ion Ratio Lower Upper

180 100

182 87.6 46.3 138.9

145 42.8 17.8 53.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

