

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111419\
 Data File : VN059235.D
 Acq On : 14 Nov 2019 15:44
 Operator : JC/SP
 Sample : K5843-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-318C-SRI4

Quant Time: Nov 15 06:31:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	505654	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	784363	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	678793	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	235625	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	316385	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
35) Dibromofluoromethane	7.57	113	244475	52.20	ug/l	0.00
Spiked Amount			Recovery	=	104.40%	
50) Toluene-d8	10.08	98	954994	51.77	ug/l	0.00
Spiked Amount			Recovery	=	103.54%	
62) 4-Bromofluorobenzene	12.40	95	305520	45.93	ug/l	0.00
Spiked Amount			Recovery	=	91.86%	

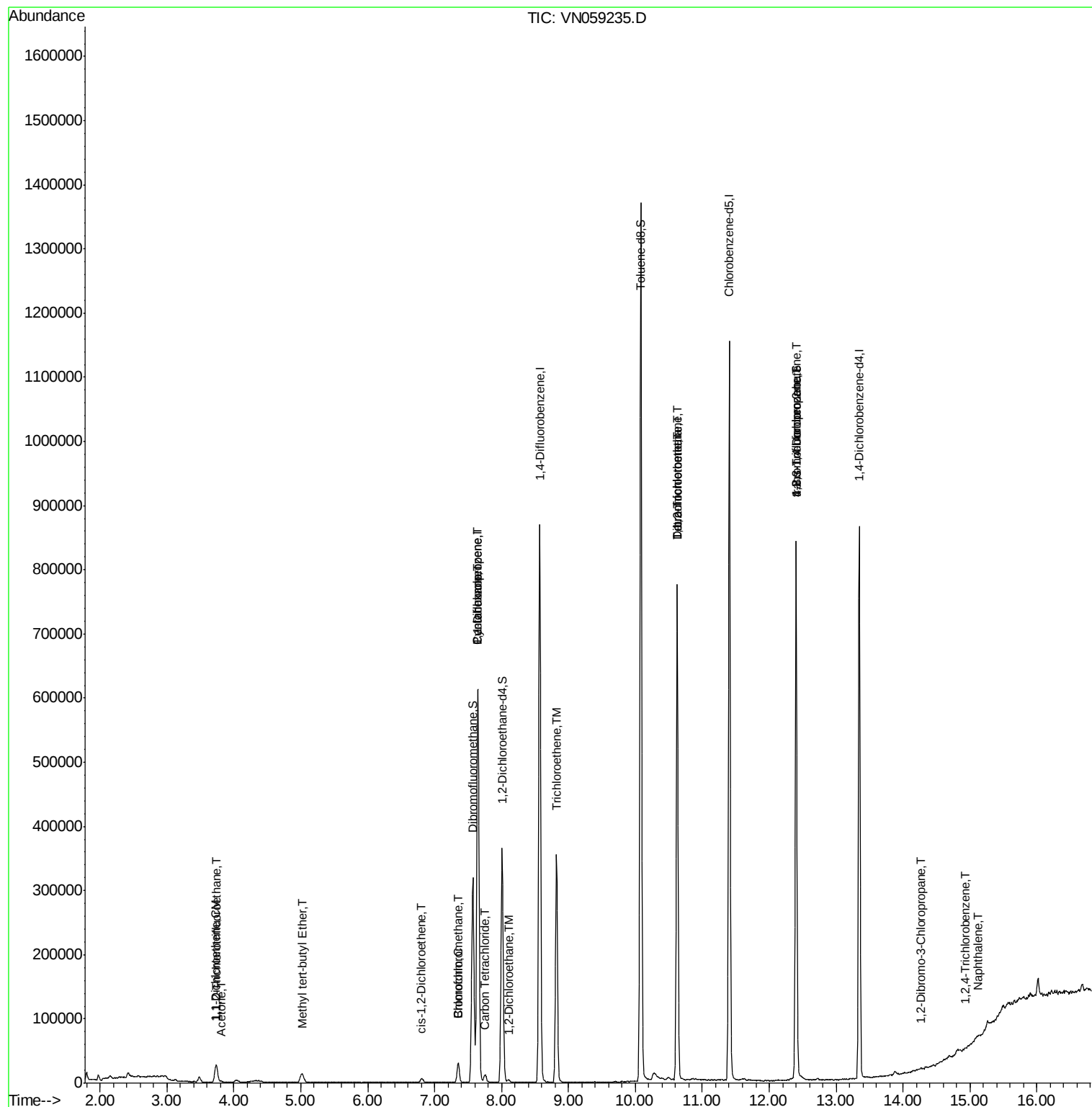
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.74	101	16540	3.416	ug/l	95
12) 1,1-Dichloroethene	3.72	96	2986	0.633	ug/l	97
16) Acetone	3.80	43	2359	0.730	ug/l	98
19) Methyl tert-butyl Ether	5.02	73	24130	1.486	ug/l	96
27) cis-1,2-Dichloroethene	6.80	96	2169	0.369	ug/l	26
28) Bromochloromethane	7.35	49	2608	0.848	ug/l #	17
30) Chloroform	7.35	83	31778	3.241	ug/l	100
31) Cyclohexane	7.65	56	9811	1.014	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	37769	5.152	ug/l #	50
38) Carbon Tetrachloride	7.75	117	10015	1.372	ug/l #	97
42) 1,2-Dichloroethane	8.10	62	3273	0.432	ug/l	86
44) Trichloroethene	8.82	130	131028	24.143	ug/l	99
55) 1,1,2-Trichloroethane	10.62	97	1453	0.271	ug/l #	1
60) Dibromochloromethane	10.63	129	165400	29.211	ug/l #	11
64) Tetrachloroethene	10.63	164	184249	39.918	ug/l	99
76) 1,2,3-Trichloropropane	12.40	75	149889	27.941	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	149889	73.801	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	654	0.588	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	60	3.059	ug/l #	1
95) Naphthalene	15.13	128	971	3.120	ug/l #	83

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059235.D

Acq: 14 Nov 2019 15:44

Instrument :

MSVOA_N

ClientSampleId :

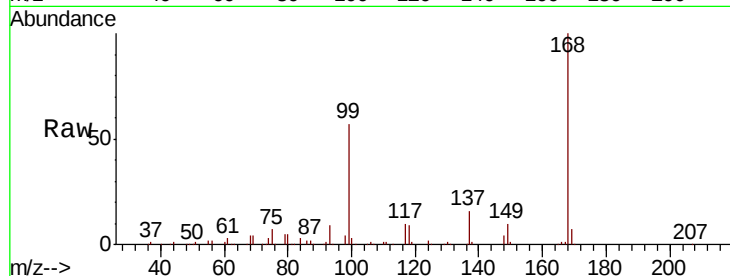
MW-318C-SRI4

Tot Ion:168 Resp: 505654

Ion Ratio Lower Upper

168 100

99 56.7 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

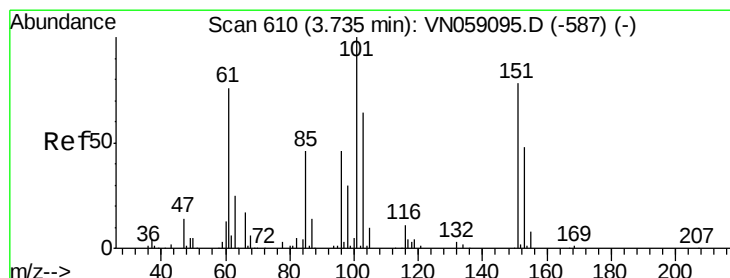
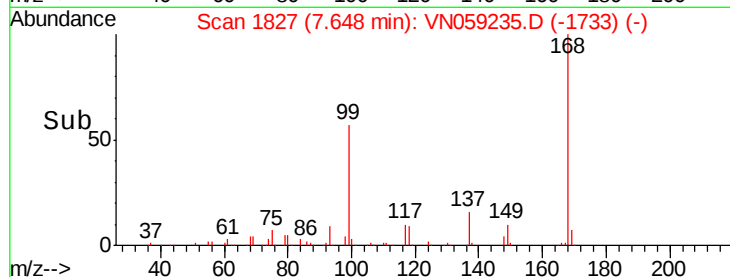
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.416 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN059235.D

Acq: 14 Nov 2019 15:44

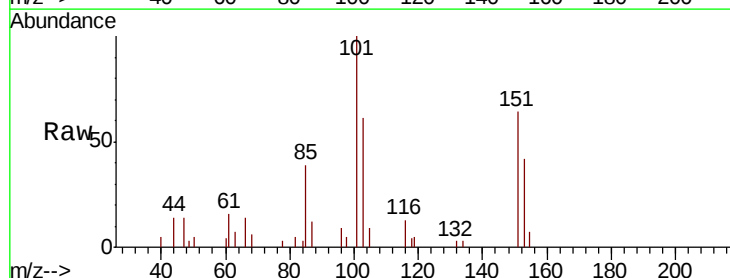
Tgt Ion:101 Resp: 16540

Ion Ratio Lower Upper

101 100

85 42.7 35.5 53.3

151 71.9 62.2 93.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

8000

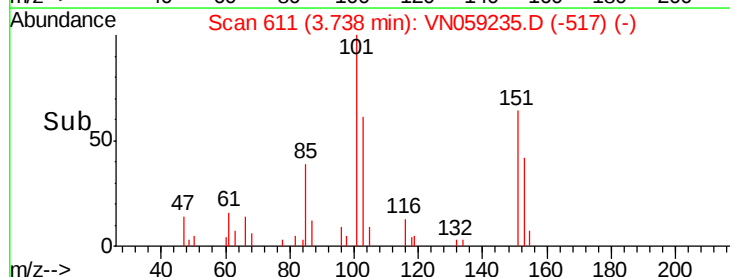
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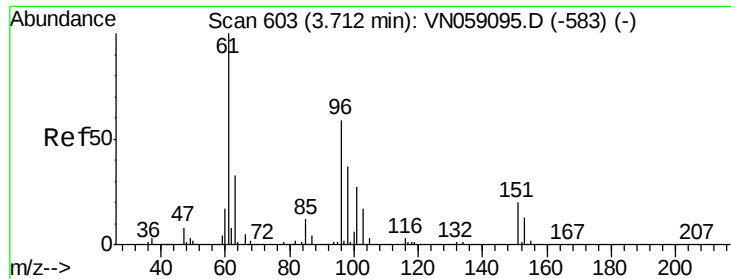
4000

2000

0

Time--> 3.65 3.70 3.75 3.80

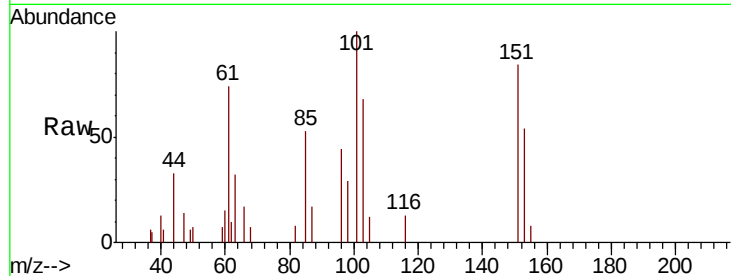




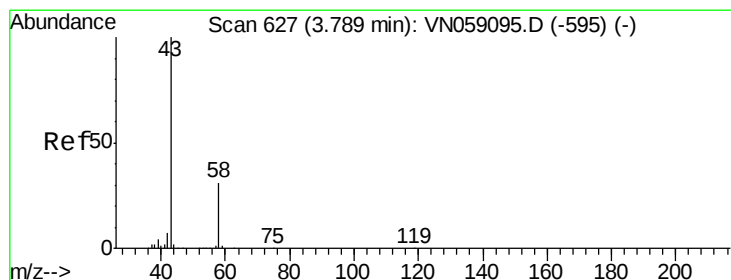
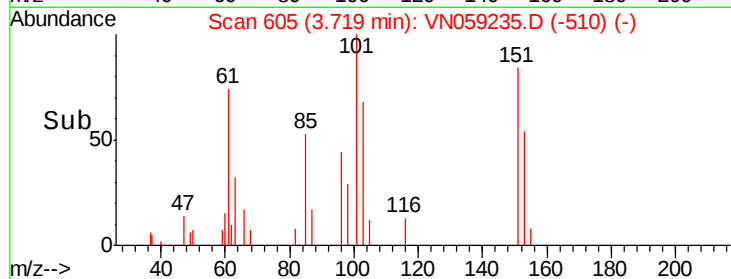
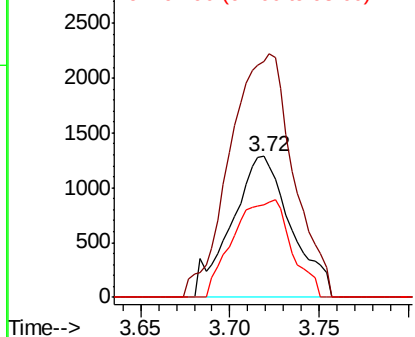
#12
 1,1-Dichloroethene
 Concen: 0.633 ug/l
 RT: 3.72 min Scan# 605
 Delta R.T. 0.01 min
 Lab File: VN059235.D
 Acq: 14 Nov 2019 15:44

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-318C-SRI4

Tot Ion: 96 Resp: 2986
 Ion Ratio Lower Upper
 96 100
 61 167.5 136.5 204.7
 98 65.3 50.2 75.4

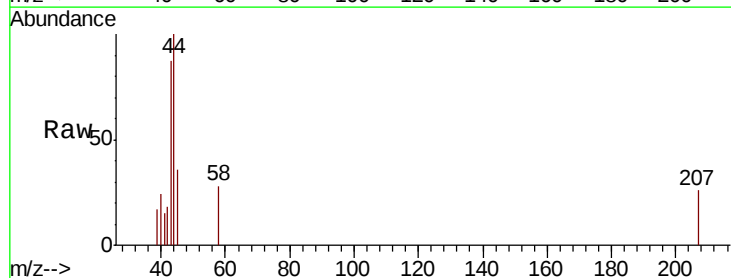


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

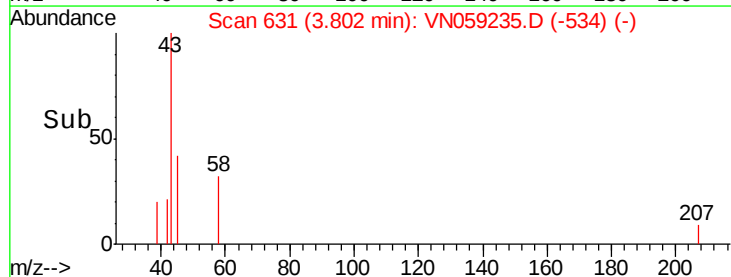
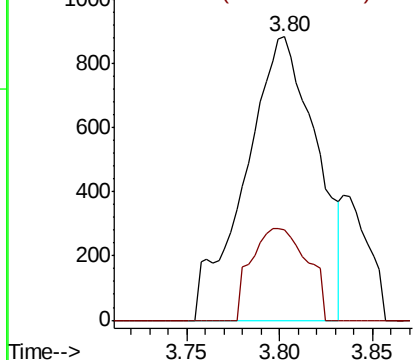


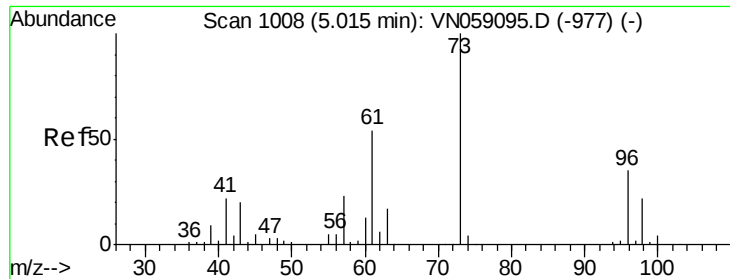
#16
 Acetone
 Concen: 0.730 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN059235.D
 Acq: 14 Nov 2019 15:44

Tgt Ion: 43 Resp: 2359
 Ion Ratio Lower Upper
 43 100
 58 31.9 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

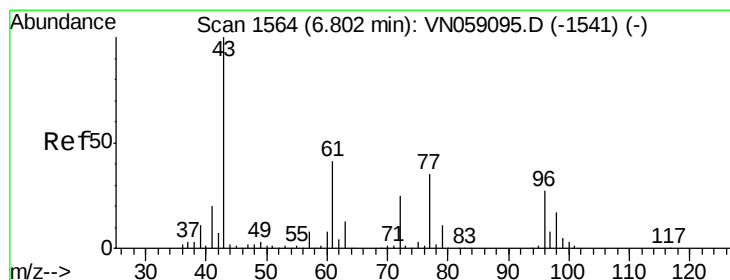
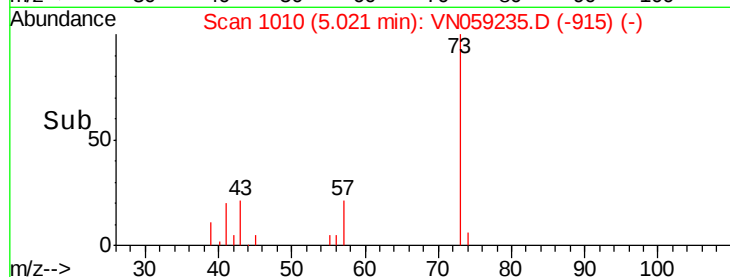
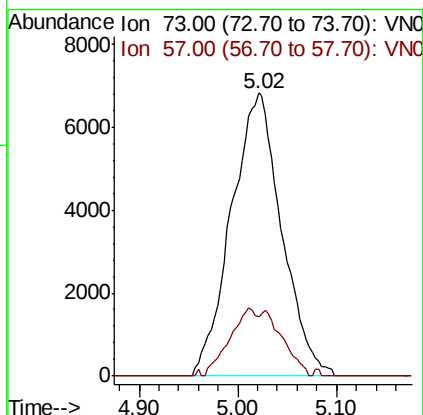
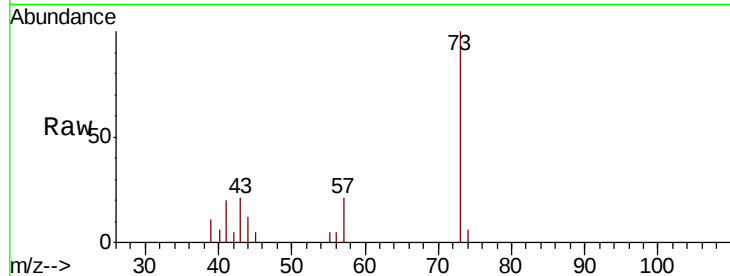




#19
Methvl tert-butvl Ether
Concen: 1.486 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.01 min
Lab File: VN059235.D
Acq: 14 Nov 2019 15:44

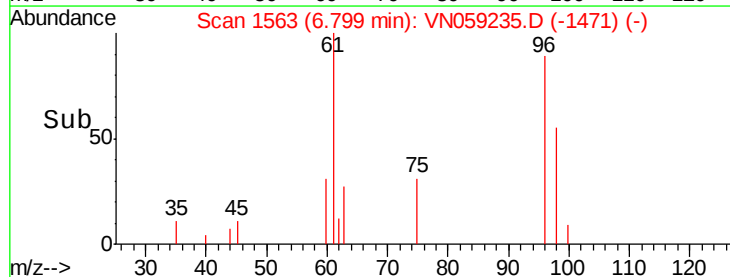
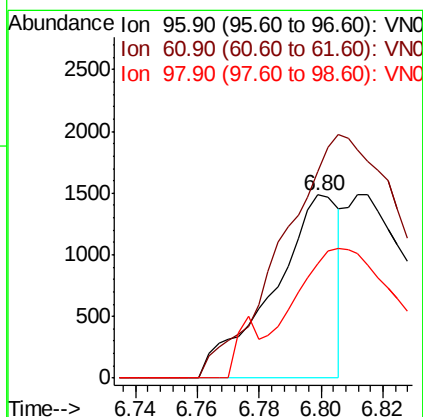
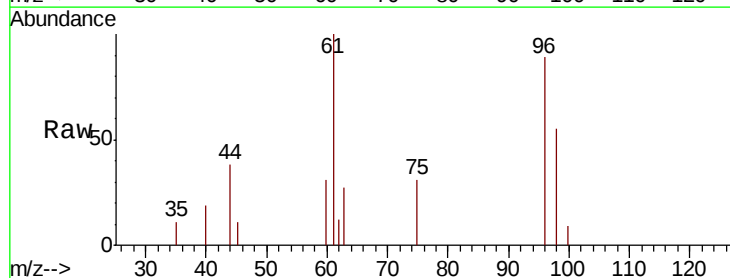
Instrument :
MSVOA_N
ClientSampleId :
MW-318C-SRI4

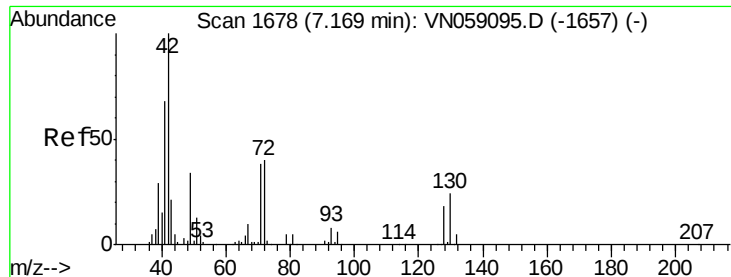
Tot Ion: 73 Resp: 24130
Ion Ratio Lower Upper
73 100
57 21.0 18.4 27.6



#27
cis-1,2-Dichloroethene
Concen: 0.369 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VN059235.D
Acq: 14 Nov 2019 15:44

Tgt Ion: 96 Resp: 2169
Ion Ratio Lower Upper
96 100
61 259.1 0.0 311.6
98 112.4 0.0 129.8





#28

Bromochloromethane

Concen: 0.848 ug/l

RT: 7.35 min Scan# 1734

Delta R.T. 0.18 min

Lab File: VN059235.D

Acq: 14 Nov 2019 15:44

Instrument :

MSVOA_N

ClientSampled :

MW-318C-SRI4

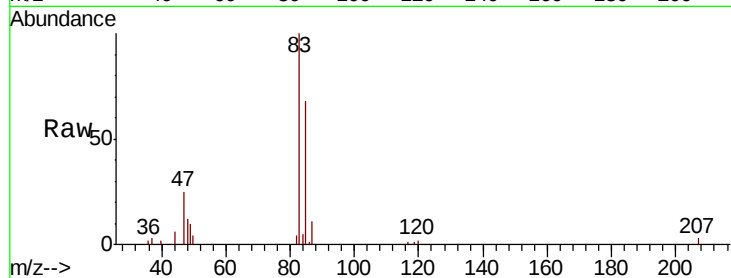
Tot Ion: 49 Resp: 2608

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

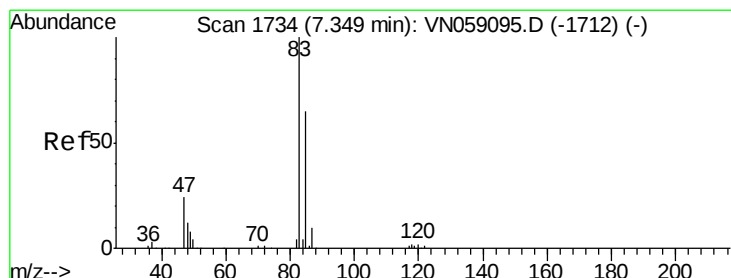
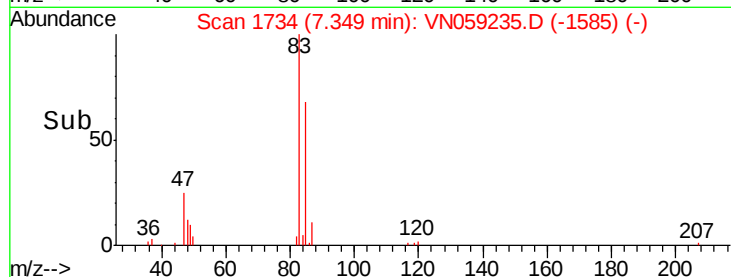
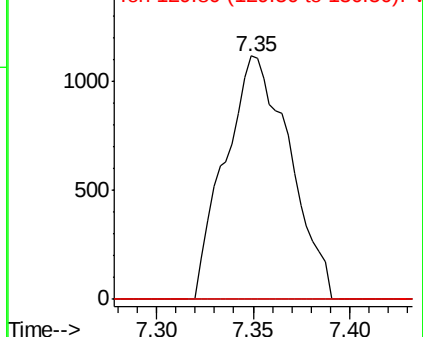
130 0.0 55.6 83.4#



Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 3.241 ug/l

RT: 7.35 min Scan# 1735

Delta R.T. 0.00 min

Lab File: VN059235.D

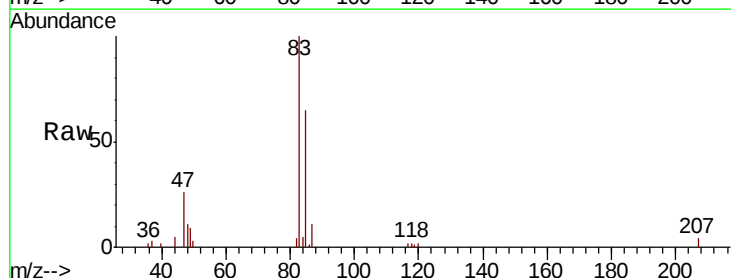
Acq: 14 Nov 2019 15:44

Tgt Ion: 83 Resp: 31778

Ion Ratio Lower Upper

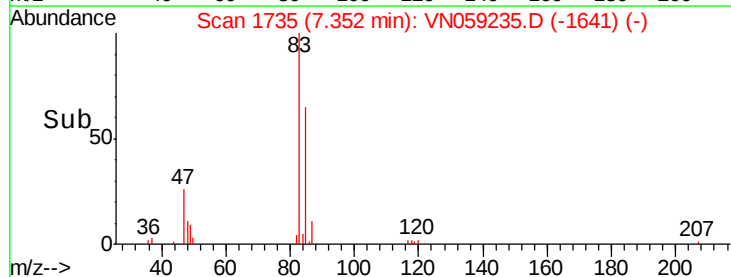
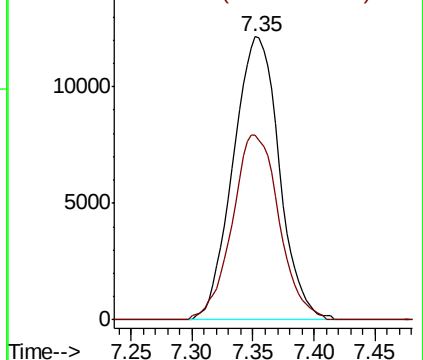
83 100

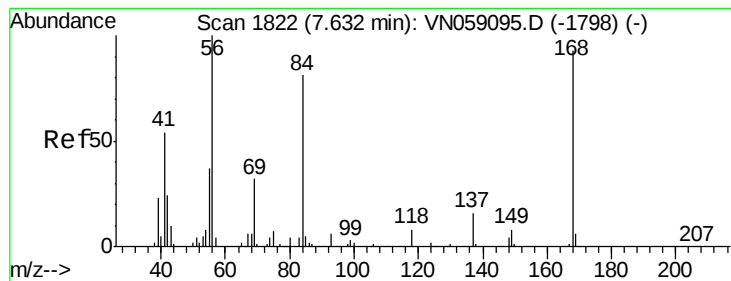
85 65.1 51.8 77.8



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 1.014 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.02 min

Lab File: VN059235.D

Acq: 14 Nov 2019 15:44

Instrument :

MSVOA_N

ClientSampled :

MW-318C-SRI4

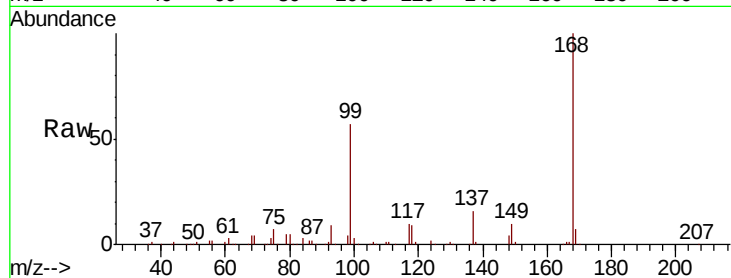
Tot Ion: 56 Resp: 9811

Ion Ratio Lower Upper

56 100

69 202.4 25.8 38.8#

84 176.4 65.0 97.4#

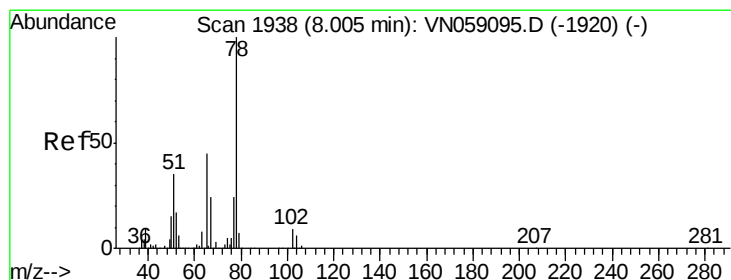
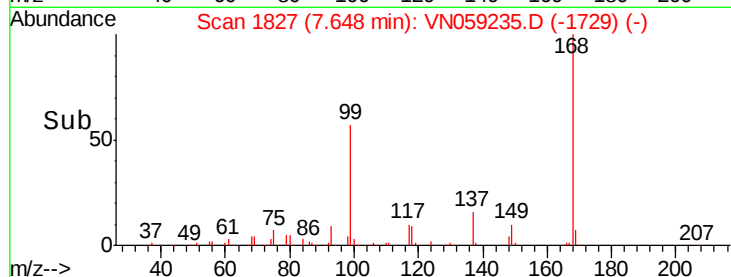
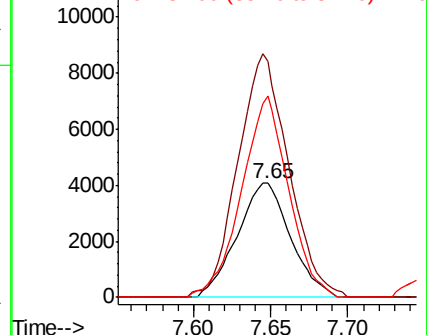


Abundance

Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO



#33

1,2-Dichloroethane-d4

Concen: 50.900 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059235.D

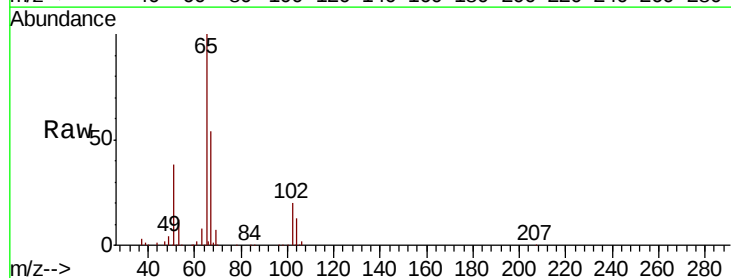
Acq: 14 Nov 2019 15:44

Tgt Ion: 65 Resp: 316385

Ion Ratio Lower Upper

65 100

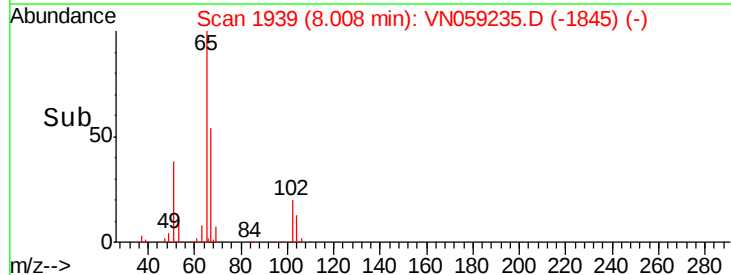
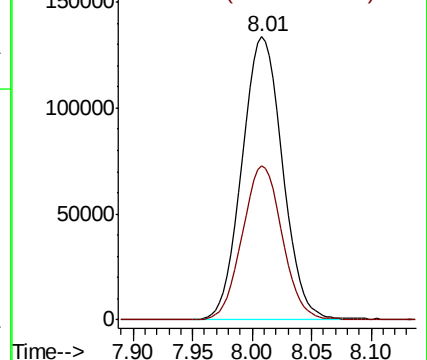
67 53.7 0.0 107.4

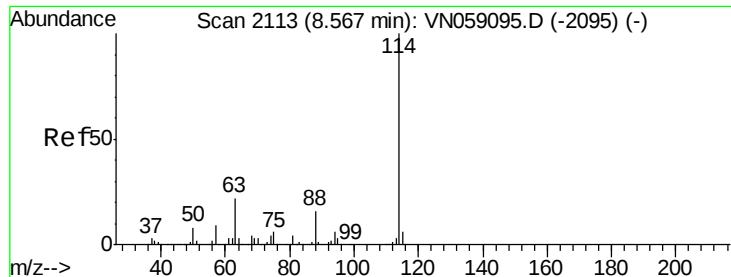


Abundance

Ion 64.90 (64.60 to 65.60): VNO

Ion 66.90 (66.60 to 67.60): VNO

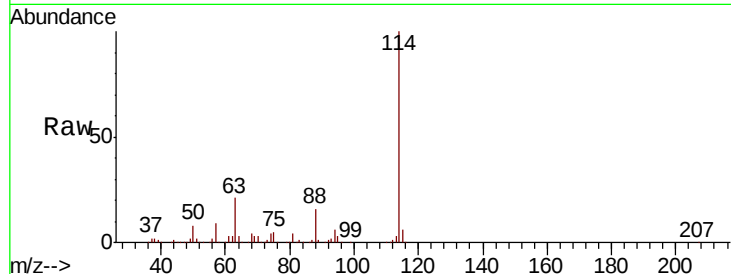




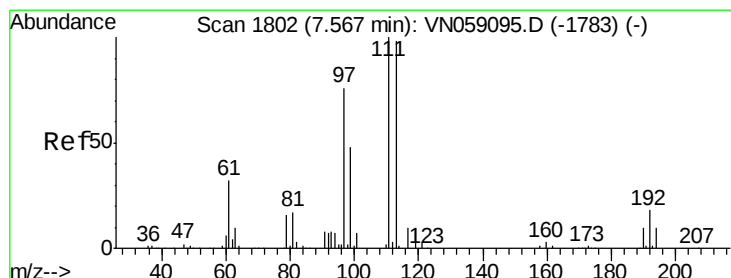
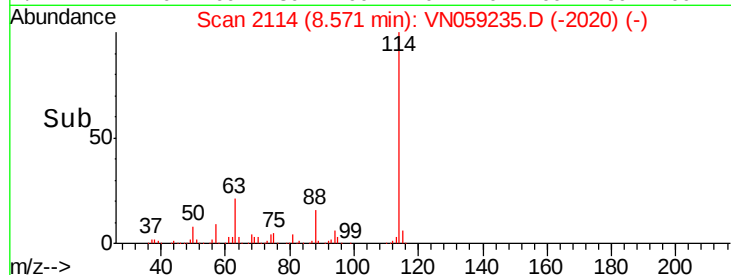
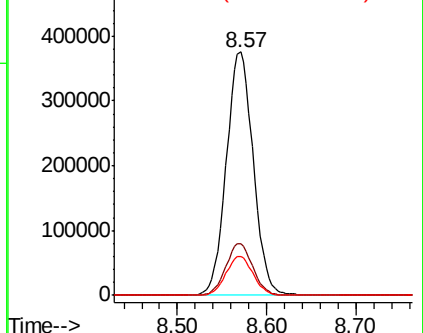
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059235.D
 Acq: 14 Nov 2019 15:44

Instrument :
 MSVOA_N
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 MW-318C-SRI4

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	43.4
88	16.2	0.0	32.2

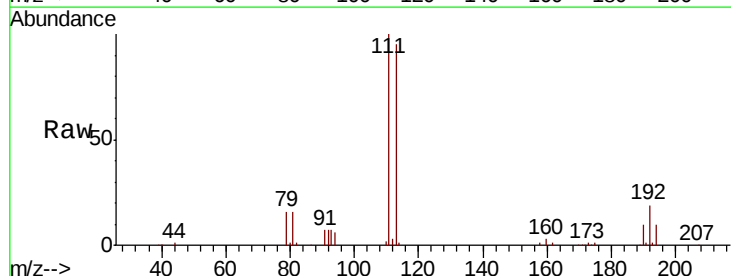


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

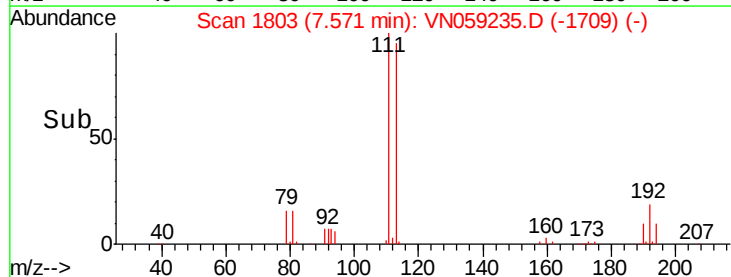
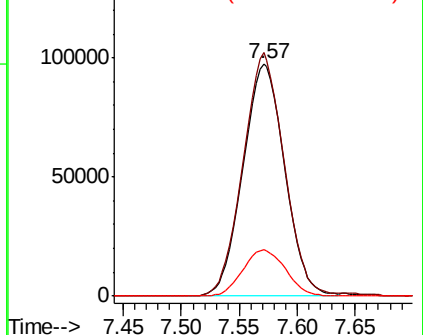


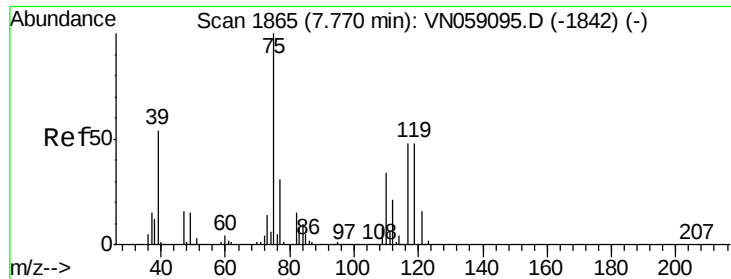
#35
 Dibromofluoromethane
 Concen: 52.200 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059235.D
 Acq: 14 Nov 2019 15:44

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.8	124.2
192	20.5	16.1	24.1



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

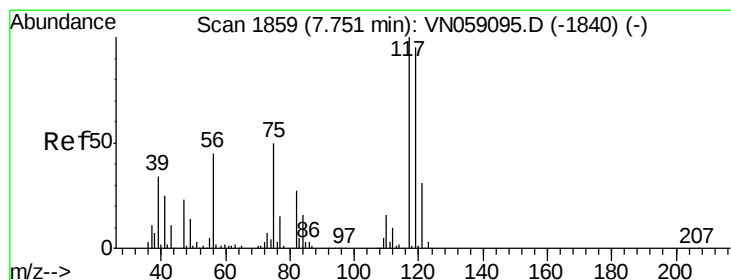
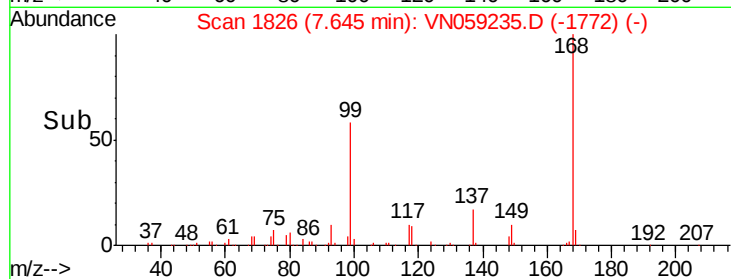
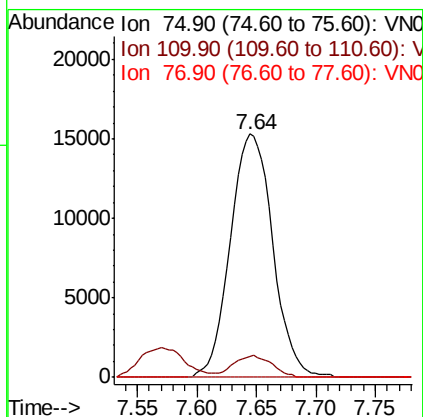
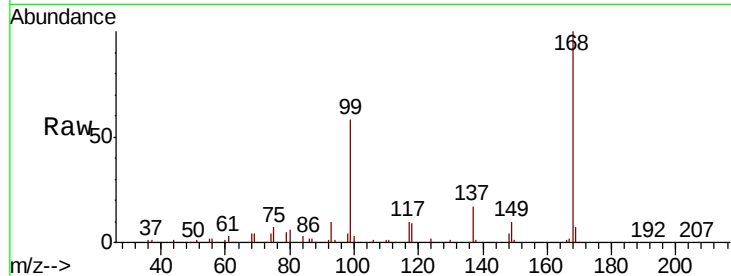




#36
 1,1-Dichloropropene
 Concen: 5.152 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059235.D
 Acq: 14 Nov 2019 15:44

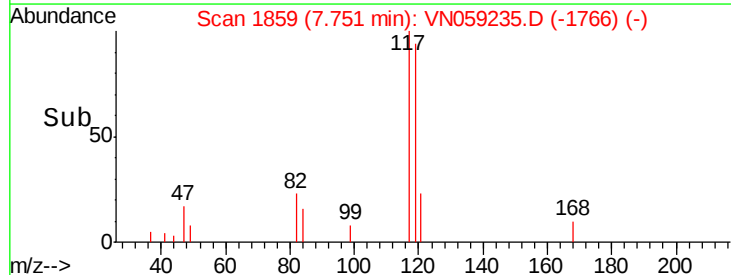
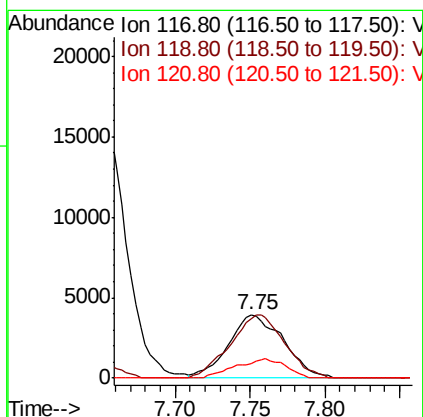
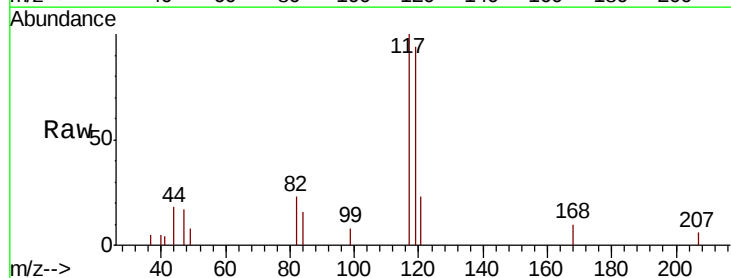
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-318C-SRI4

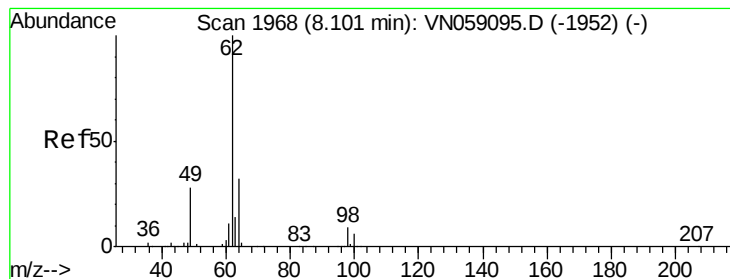
Tot Ion	75	Resp	37769
Ion Ratio	Lower	Upper	
75	100		
110	8.3	17.1	51.2#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 1.372 ug/l
 RT: 7.75 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VN059235.D
 Acq: 14 Nov 2019 15:44

Tgt Ion	117	Resp	10015
Ion Ratio	Lower	Upper	
117	100		
119	94.4	75.6	113.4
121	23.4	24.6	36.8#





#42

1,2-Dichloroethane

Concen: 0.432 ug/l

RT: 8.10 min Scan# 1967

Delta R.T. -0.00 min

Lab File: VN059235.D

Acq: 14 Nov 2019 15:44

Instrument :

MSVOA_N

ClientSampleId :

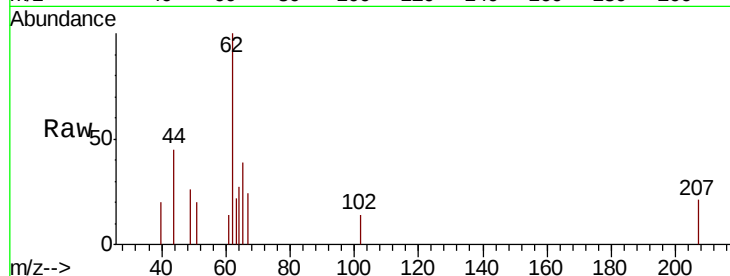
MW-318C-SRI4

Tot Ion: 62 Resp: 3273

Ion Ratio Lower Upper

62 100

98 3.8 0.0 17.8



Abundance Ion 61.90 (61.60 to 62.60): VN059095.D (-1952) (-)

Ion 97.90 (97.60 to 98.60): VN059095.D (-1952) (-)

8.10

1500

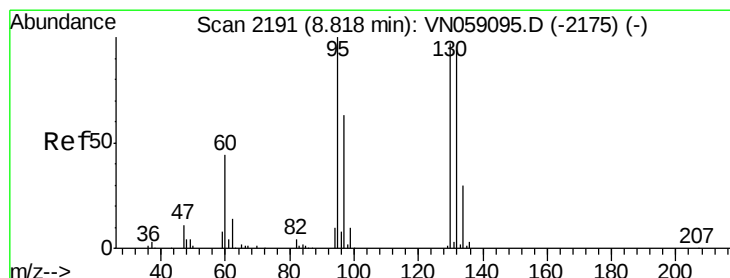
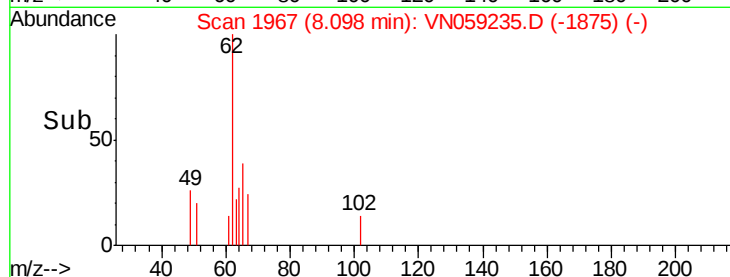
1000

500

0

Time-->

8.05 8.10 8.15



#44

Trichloroethene

Concen: 24.143 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VN059235.D

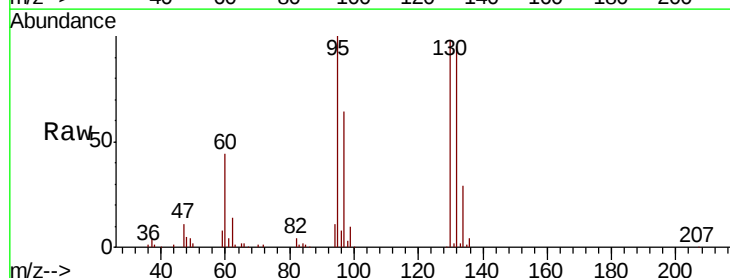
Acq: 14 Nov 2019 15:44

Tgt Ion:130 Resp: 131028

Ion Ratio Lower Upper

130 100

95 101.7 0.0 206.4



Abundance Ion 129.80 (129.50 to 130.50): VN059095.D (-2175) (-)

Ion 94.90 (94.60 to 95.60): VN059095.D (-2175) (-)

8.82

60000

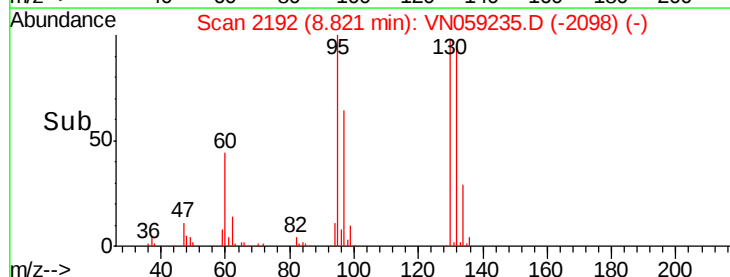
40000

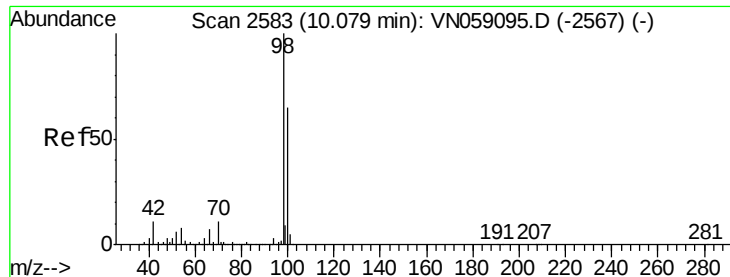
20000

0

Time-->

8.70 8.80 8.90





#50

Toluene-d8

Concen: 51.768 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059235.D

Acq: 14 Nov 2019 15:44

Instrument :

MSVOA_N

ClientSampleId :

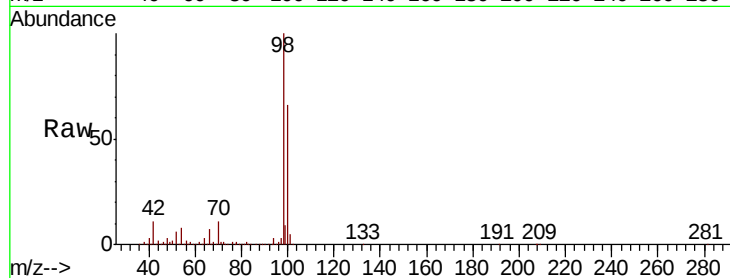
MW-318C-SRI4

Tot Ion: 98 Resp: 954994

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

500000

400000

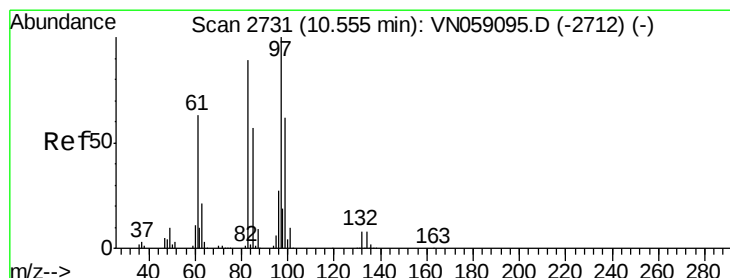
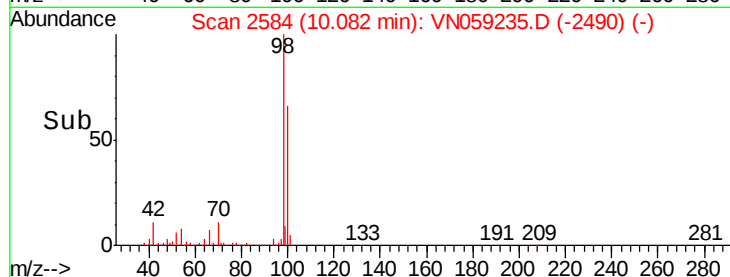
300000

200000

100000

0

Time-->



#55

1,1,2-Trichloroethane

Concen: 0.271 ug/l

RT: 10.62 min Scan# 2751

Delta R.T. 0.06 min

Lab File: VN059235.D

Acq: 14 Nov 2019 15:44

Tgt Ion: 97 Resp: 1453

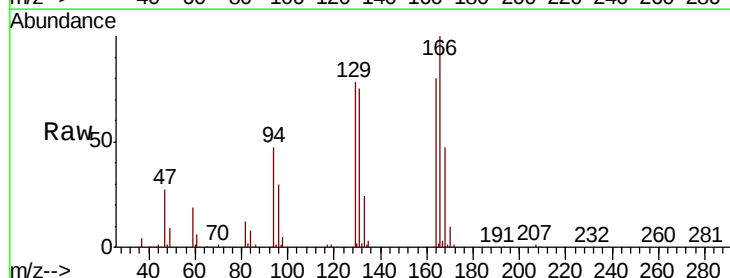
Ion Ratio Lower Upper

97 100

83 255.1 71.0 106.4#

85 31.3 45.8 68.8#

99 0.0 49.4 74.0#



Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

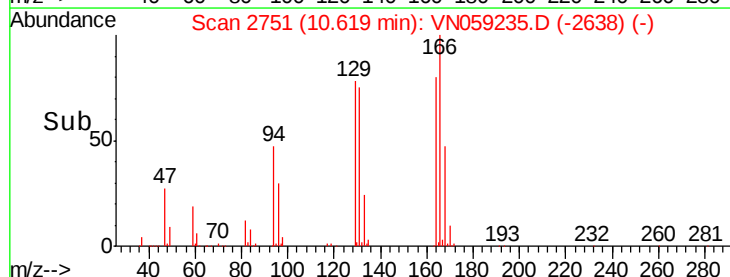
3000

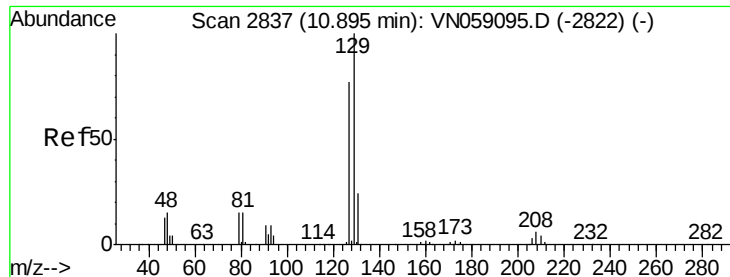
2000

1000

0

Time-->





#60

Dibromochloromethane

Concen: 29.211 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. -0.27 min

Lab File: VN059235.D

Acq: 14 Nov 2019 15:44

Instrument :

MSVOA_N

ClientSampleId :

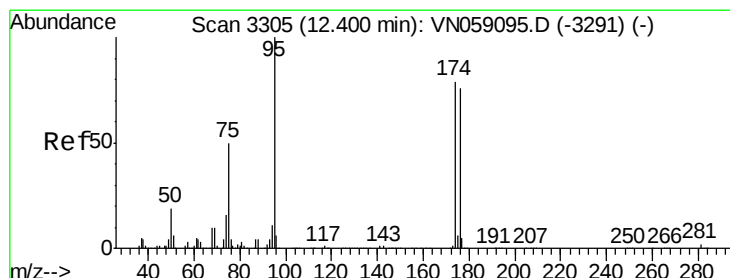
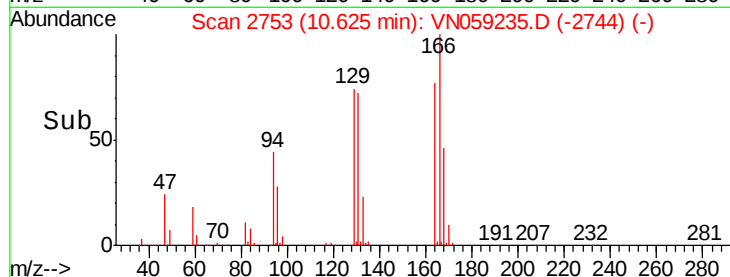
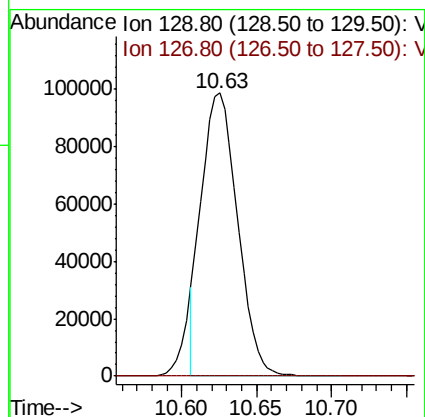
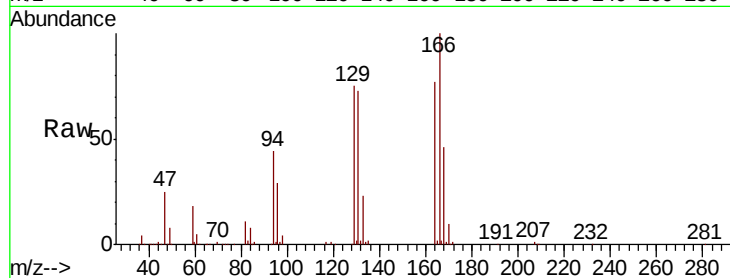
MW-318C-SRI4

Tot Ion:129 Resp: 165400

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



#62

4-Bromofluorobenzene

Concen: 45.933 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN059235.D

Acq: 14 Nov 2019 15:44

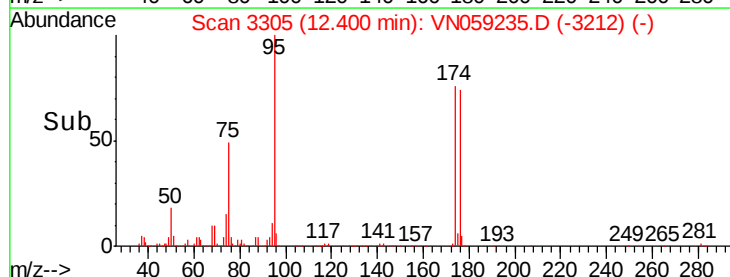
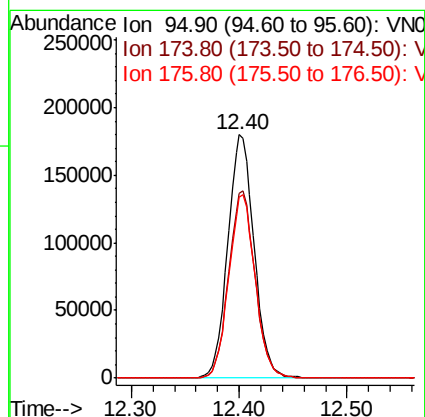
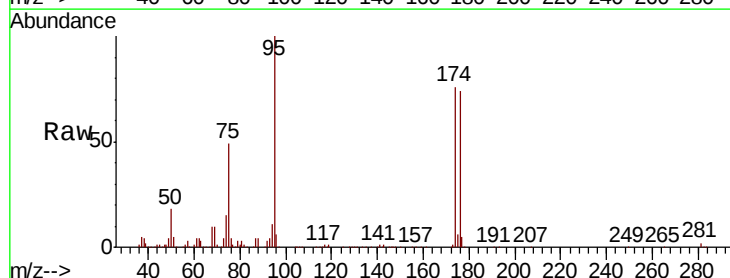
Tgt Ion: 95 Resp: 305520

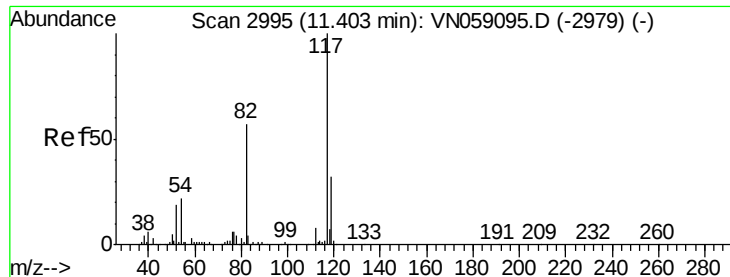
Ion Ratio Lower Upper

95 100

174 77.1 0.0 158.2

176 75.6 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN059235.D

Acq: 14 Nov 2019 15:44

Instrument :

MSVOA_N

ClientSampleId :

MW-318C-SRI4

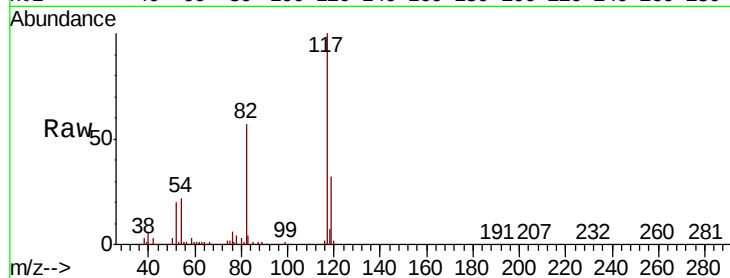
Tot Ion:117 Resp: 678793

Ion Ratio Lower Upper

117 100

82 57.5 45.8 68.8

119 32.2 25.8 38.6

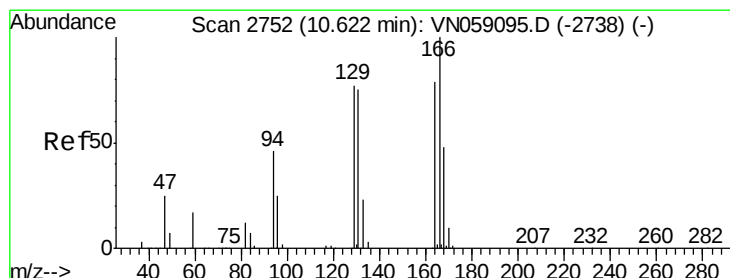
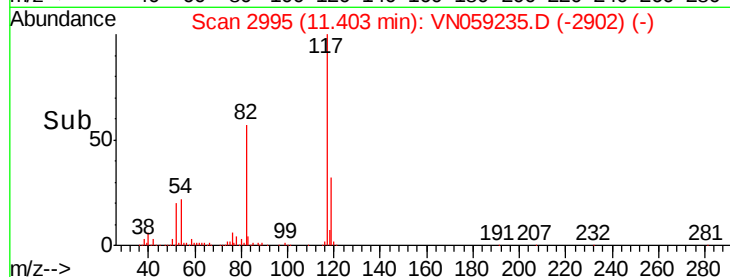
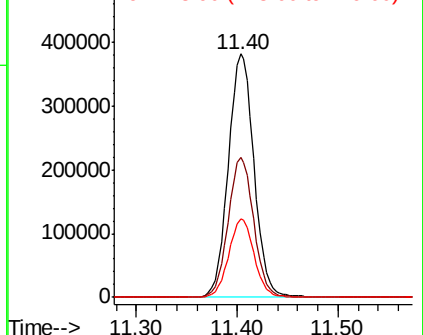


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 39.918 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VN059235.D

Acq: 14 Nov 2019 15:44

Tgt Ion:164 Resp: 184249

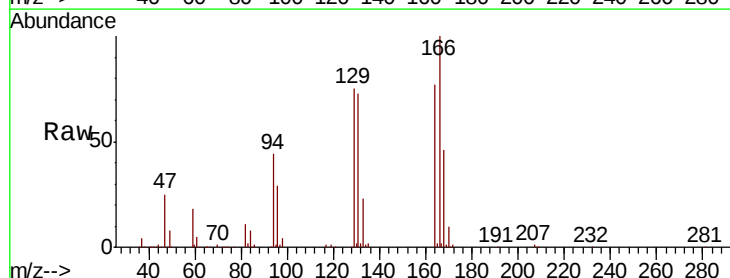
Ion Ratio Lower Upper

164 100

166 129.1 101.5 152.3

129 96.4 78.3 117.5

131 94.1 75.9 113.9



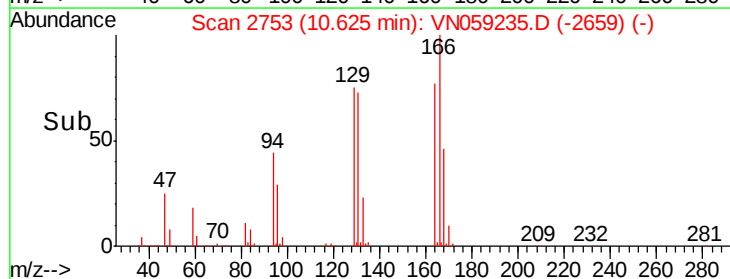
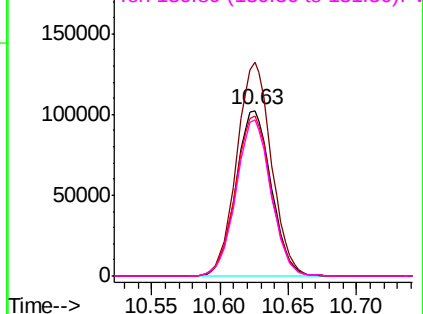
Abundance

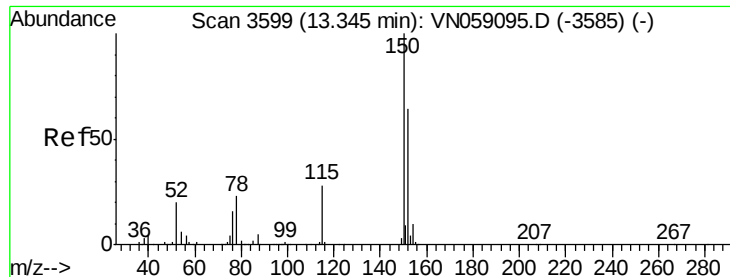
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VN059235.D

Acq: 14 Nov 2019 15:44

Instrument :

MSVOA_N

ClientSampleId :

MW-318C-SRI4

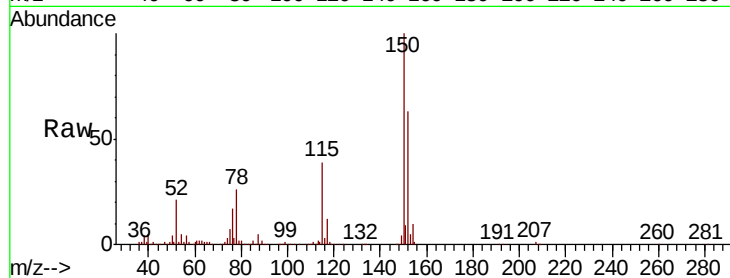
Tot Ion:152 Resp: 235625

Ion Ratio Lower Upper

152 100

115 61.4 29.4 88.2

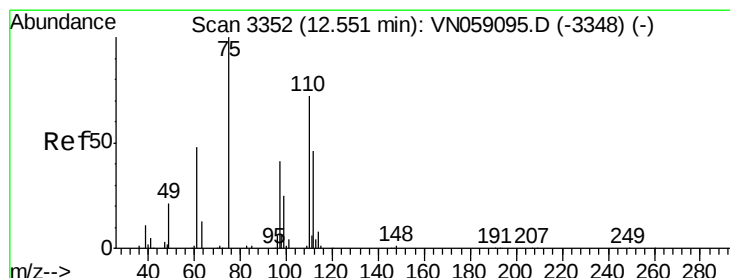
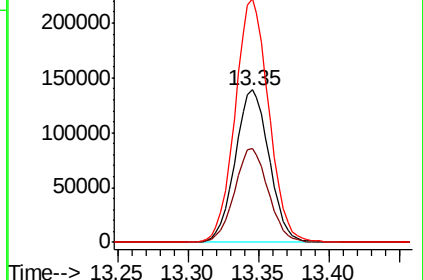
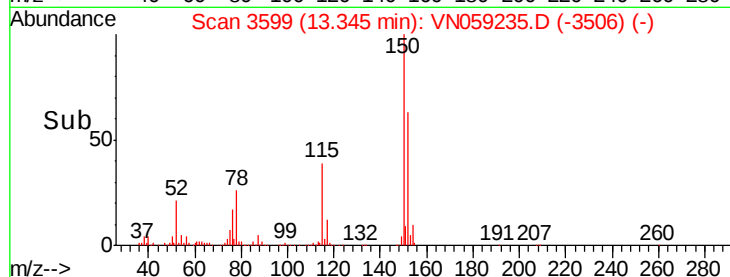
150 157.9 0.0 345.8



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: 27.941 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059235.D

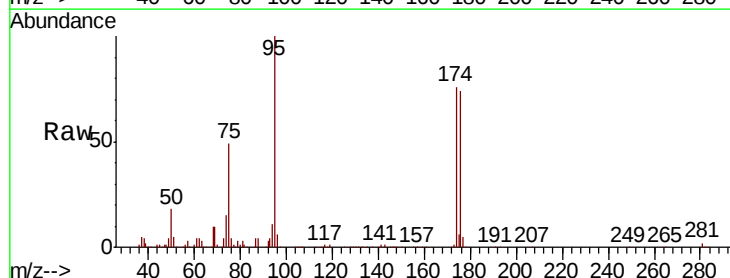
Acq: 14 Nov 2019 15:44

Tgt Ion: 75 Resp: 149889

Ion Ratio Lower Upper

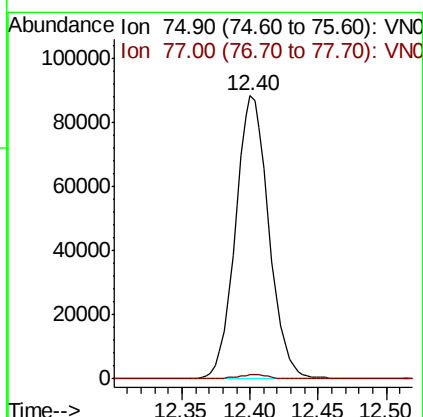
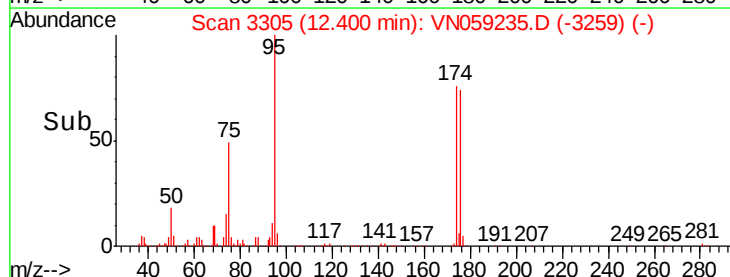
75 100

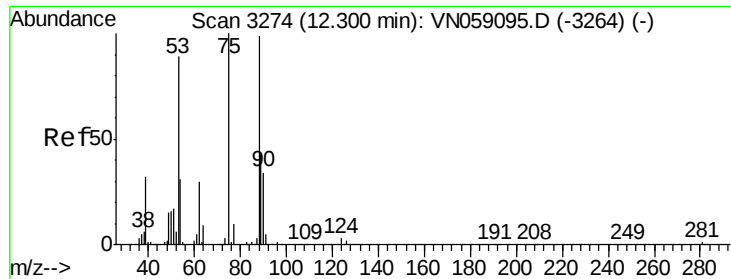
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 73.801 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059235.D

Acq: 14 Nov 2019 15:44

Instrument :

MSVOA_N

ClientSampleId :

MW-318C-SRI4

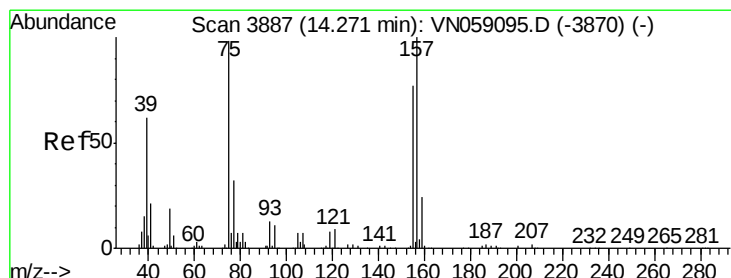
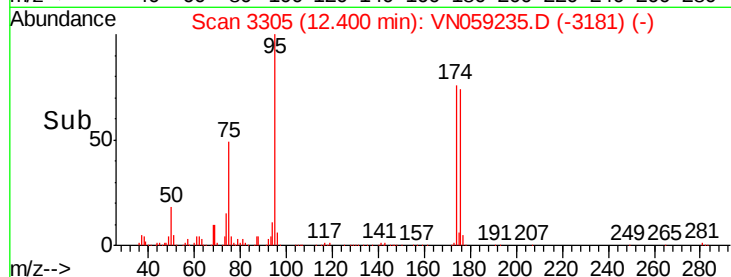
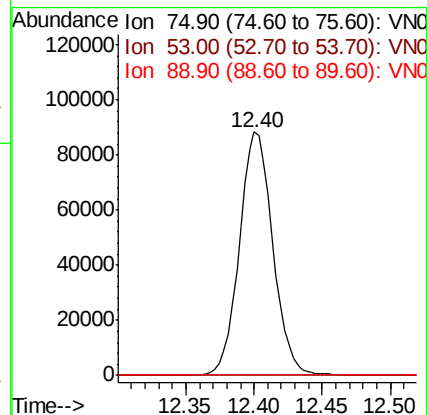
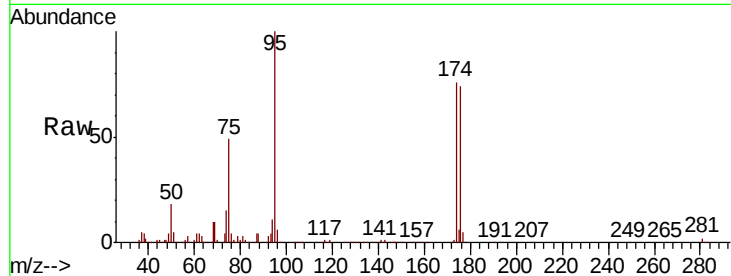
Tot Ion: 75 Resp: 149889

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

89 0.0 35.8 53.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.588 ug/l

RT: 14.26 min Scan# 3883

Delta R.T. -0.01 min

Lab File: VN059235.D

Acq: 14 Nov 2019 15:44

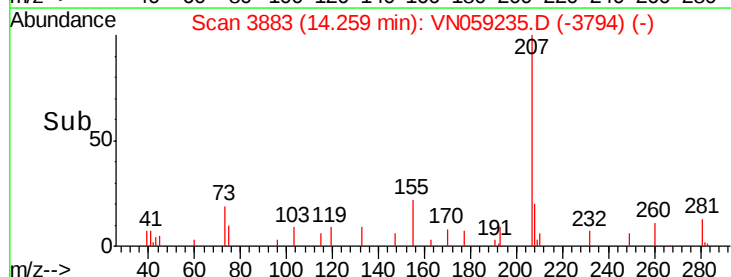
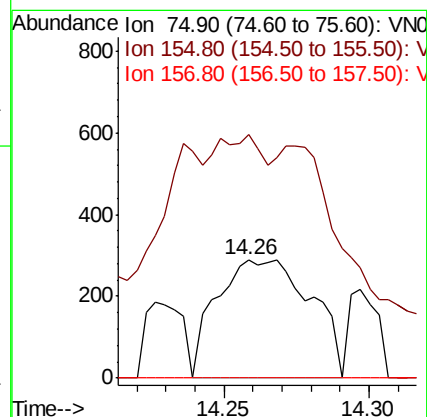
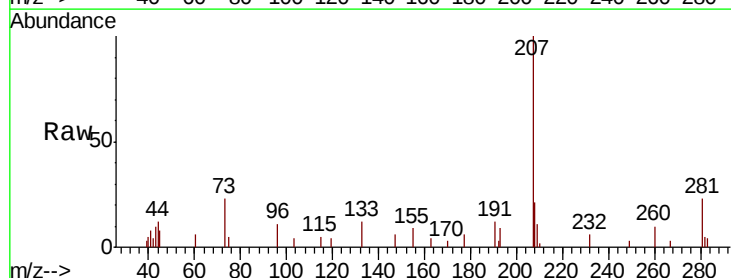
Tgt Ion: 75 Resp: 654

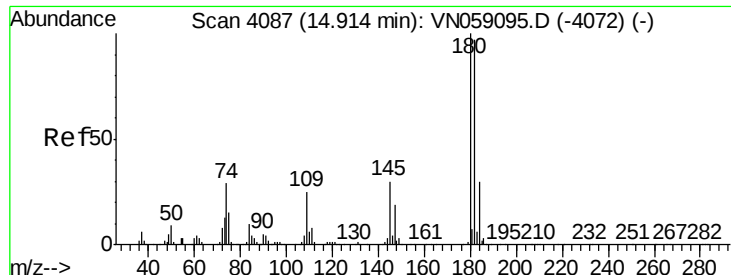
Ion Ratio Lower Upper

75 100

155 0.0 40.2 120.6#

157 0.0 51.8 155.5#

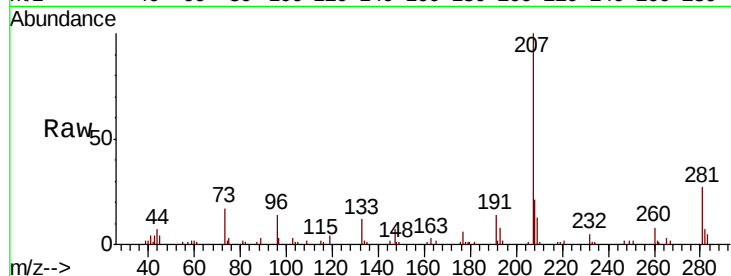




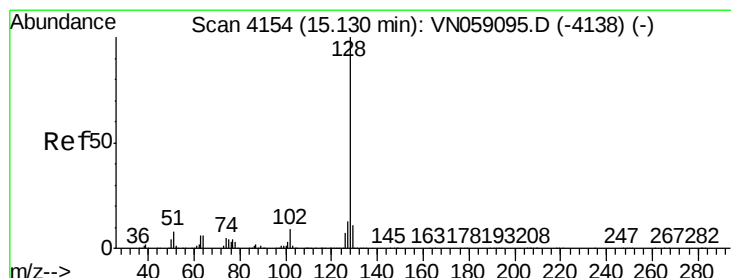
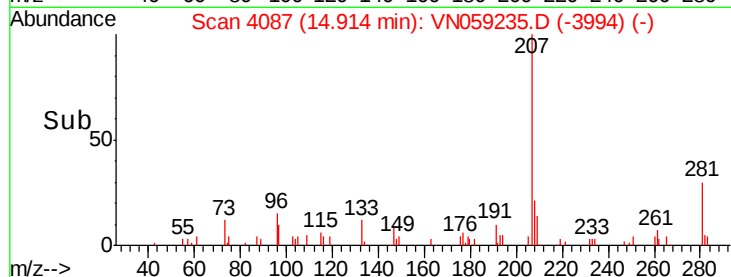
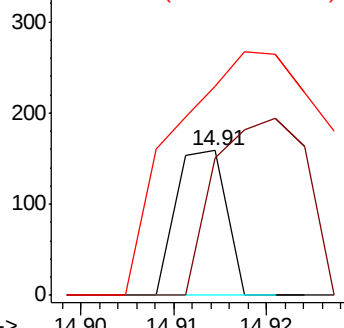
#93
 1,2,4-Trichlorobenzene
 Concen: 3.059 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059235.D
 Acq: 14 Nov 2019 15:44

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-318C-SRI4

Tot Ion	Ratio	Lower	Upper
180	100		
182	221.7	48.1	144.3#
145	538.3	15.1	45.3#

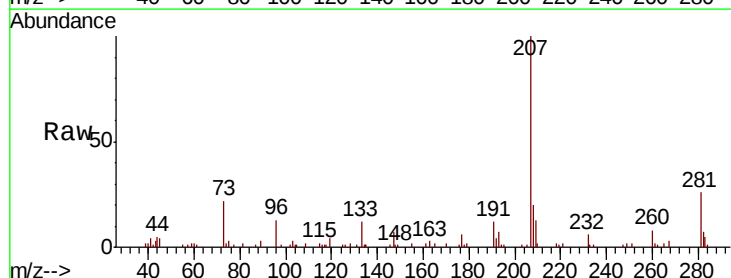


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 3.120 ug/l
 RT: 15.13 min Scan# 4153
 Delta R.T. -0.00 min
 Lab File: VN059235.D
 Acq: 14 Nov 2019 15:44

Tgt Ion	Ratio	Lower	Upper
128	100		
127	6.9	10.2	15.2#
129	3.2	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

