

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111419\
 Data File : VN059236.D
 Acq On : 14 Nov 2019 16:06
 Operator : JC/SP
 Sample : K5843-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 15 06:31:57 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	7.64	168	482213	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	752941	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	652977	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	234244	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	303707	51.24	ug/l	0.00
Spiked Amount			Recovery	=	102.48%	
35) Dibromofluoromethane	7.57	113	235505	52.38	ug/l	0.00
Spiked Amount			Recovery	=	104.76%	
50) Toluene-d8	10.08	98	914685	51.65	ug/l	0.00
Spiked Amount			Recovery	=	103.30%	
62) 4-Bromofluorobenzene	12.40	95	294704	46.16	ug/l	0.00
Spiked Amount			Recovery	=	92.32%	

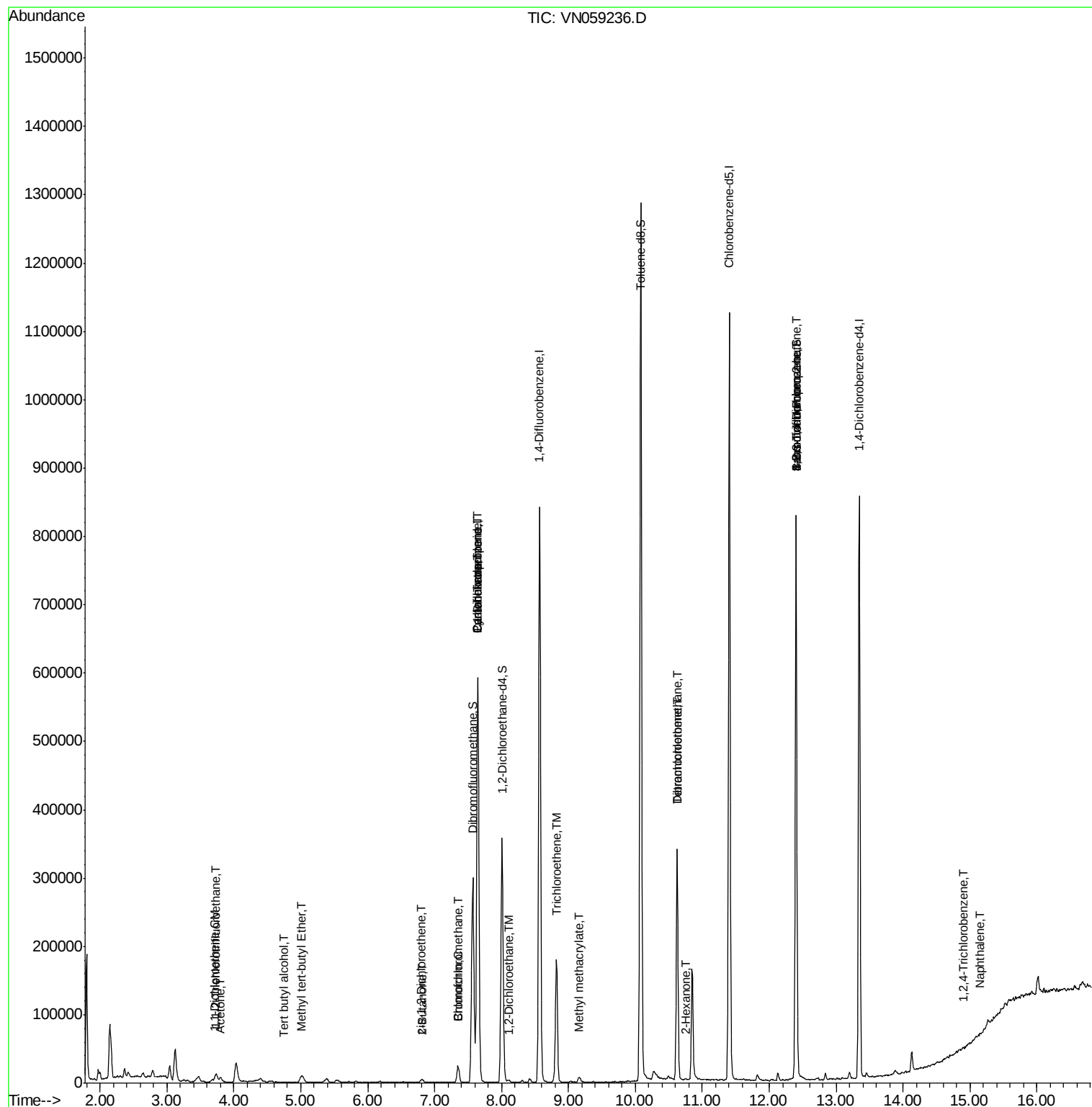
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.74	101	7180	1.555	ug/l	98
11) Tert butyl alcohol	4.74	59	287	0.254	ug/l #	72
12) 1,1-Dichloroethene	3.71	96	1706	0.379	ug/l	88
16) Acetone	3.80	43	11844	3.842	ug/l	97
19) Methyl tert-butyl Ether	5.02	73	15272	0.986	ug/l #	82
25) 2-Butanone	6.82	43	1029	0.253	ug/l	94
27) cis-1,2-Dichloroethene	6.81	96	1436	0.256	ug/l	59
28) Bromochloromethane	7.35	49	1981	0.675	ug/l #	17
30) Chloroform	7.35	83	25775	2.756	ug/l	93
31) Cyclohexane	7.65	56	9709	1.052	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	35896	5.100	ug/l #	49
38) Carbon Tetrachloride	7.65	117	45374	6.478	ug/l #	17
42) 1,2-Dichloroethane	8.10	62	2155	0.296	ug/l	84
44) Trichloroethene	8.82	130	69055	13.255	ug/l	95
48) Methyl methacrylate	9.16	41	2440	0.437	ug/l #	43
59) 2-Hexanone	10.75	43	1324	0.244	ug/l #	24
60) Dibromochloromethane	10.63	129	72850	13.403	ug/l #	11
64) Tetrachloroethene	10.63	164	81480	18.351	ug/l	98
71) Bromoform	12.40	173	1560	0.420	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	145116	27.211	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	145116	71.872	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.90	180	60	3.059	ug/l #	73
95) Naphthalene	15.14	128	666	3.096	ug/l #	70

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

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Quant Title : SW846 8260
QLast Update : Thu Nov 07 04:00:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059236.D

Acq: 14 Nov 2019 16:06

Instrument :

MSVOA_N

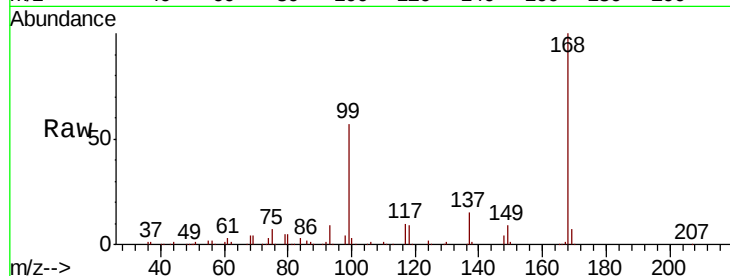
ClientSampleId :

Tot Ion:168 Resp: 482213

Ion Ratio Lower Upper

168 100

99 57.0 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

200000

150000

100000

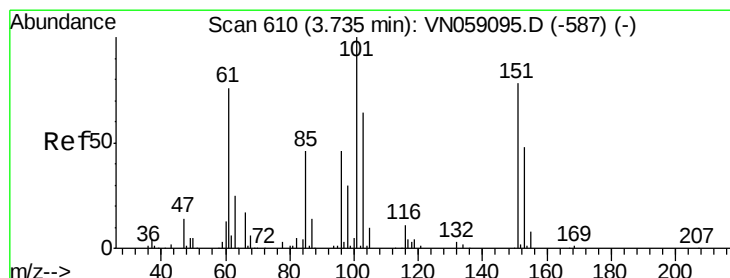
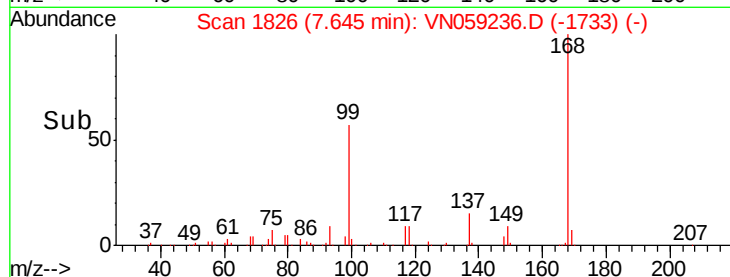
50000

0

7.60

7.70

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.555 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN059236.D

Acq: 14 Nov 2019 16:06

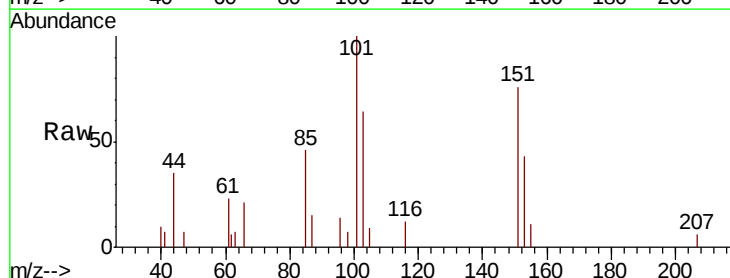
Tgt Ion:101 Resp: 7180

Ion Ratio Lower Upper

101 100

85 46.3 35.5 53.3

151 78.9 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

3.74

3000

2000

1000

0

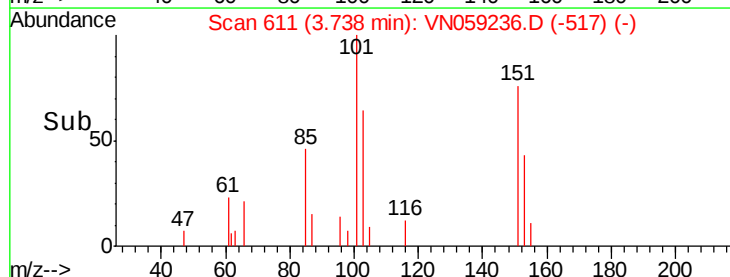
3.65

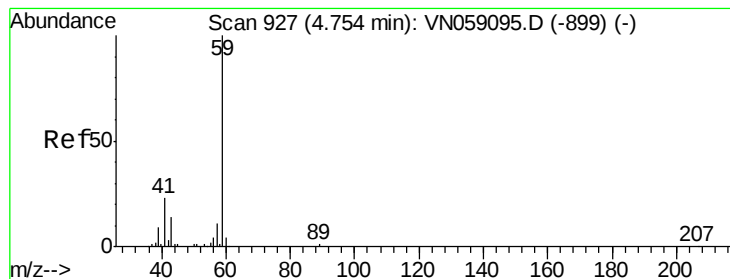
3.70

3.75

3.80

Time-->



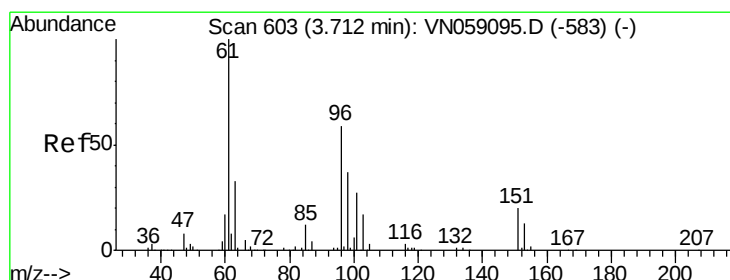
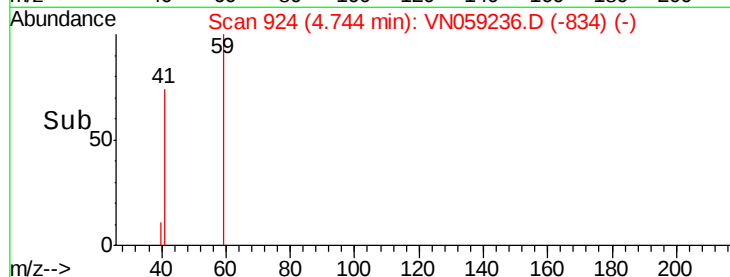
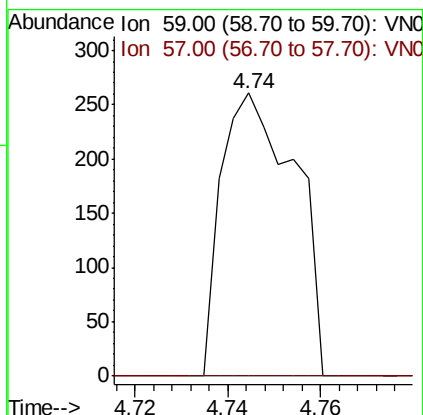
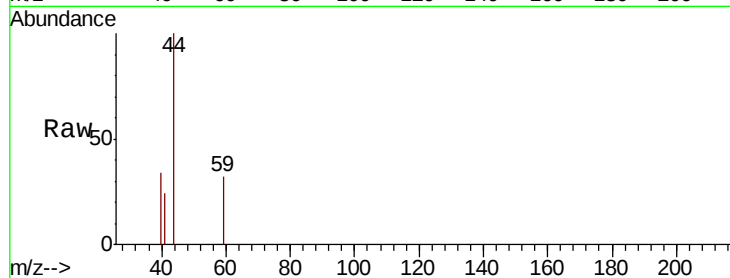


#11

Tert butyl alcohol
 Concen: 0.254 ug/l
 RT: 4.74 min Scan# 924
 Delta R.T. -0.01 min
 Lab File: VN059236.D
 Acq: 14 Nov 2019 16:06

Instrument :
 MSVOA_N
 ClientSampled :

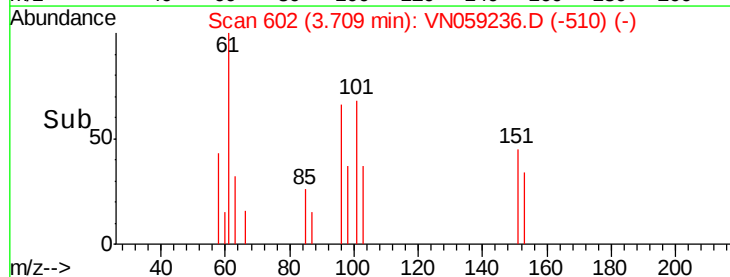
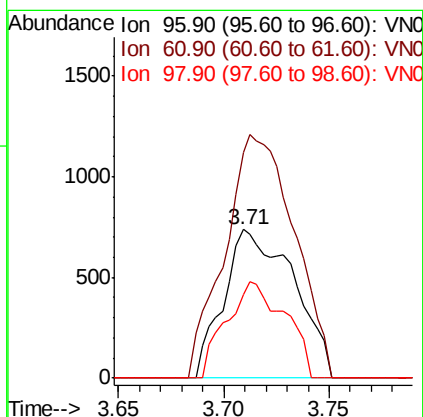
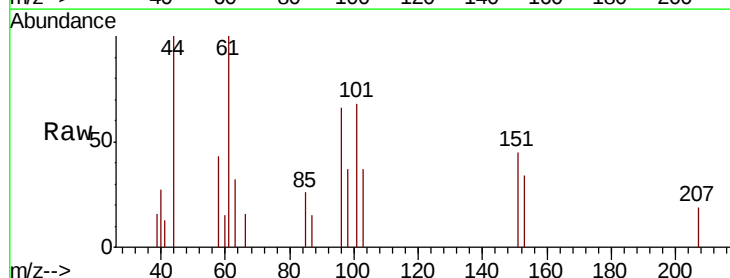
Tot Ion: 59 Resp: 287
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

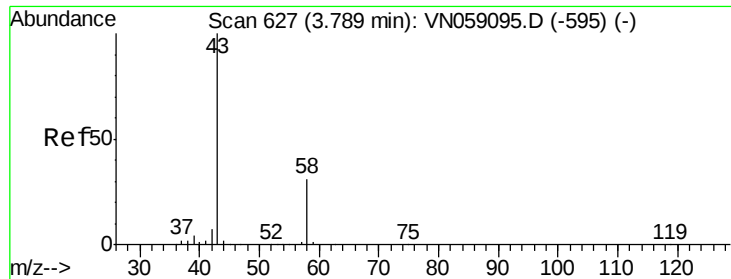


#12

1,1-Dichloroethene
 Concen: 0.379 ug/l
 RT: 3.71 min Scan# 602
 Delta R.T. -0.00 min
 Lab File: VN059236.D
 Acq: 14 Nov 2019 16:06

Tgt Ion: 96 Resp: 1706
 Ion Ratio Lower Upper
 96 100
 61 152.1 136.5 204.7
 98 55.9 50.2 75.4





#16

Acetone

Concen: 3.842 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN059236.D

Acq: 14 Nov 2019 16:06

Instrument :

MSVOA_N

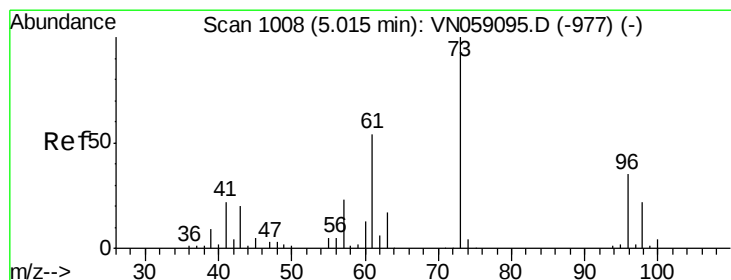
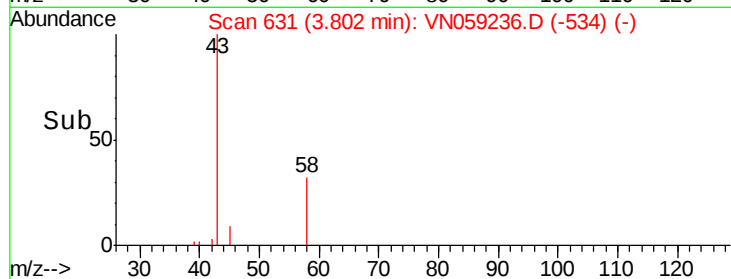
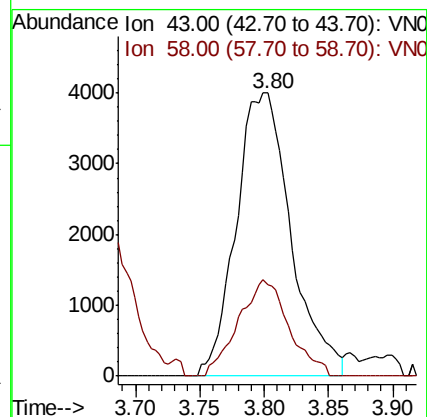
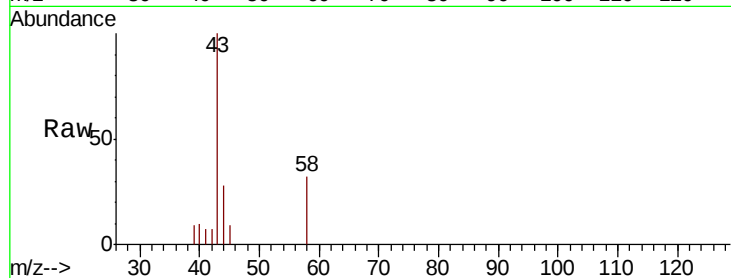
ClientSampled :

Tot Ion: 43 Resp: 11844

Ion Ratio Lower Upper

43 100

58 32.5 24.9 37.3



#19

Methyl tert-butyl Ether

Concen: 0.986 ug/l

RT: 5.02 min Scan# 1009

Delta R.T. 0.00 min

Lab File: VN059236.D

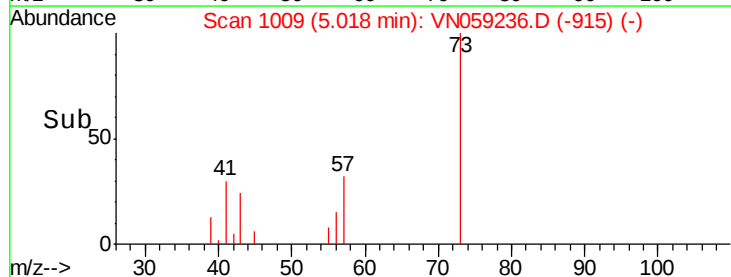
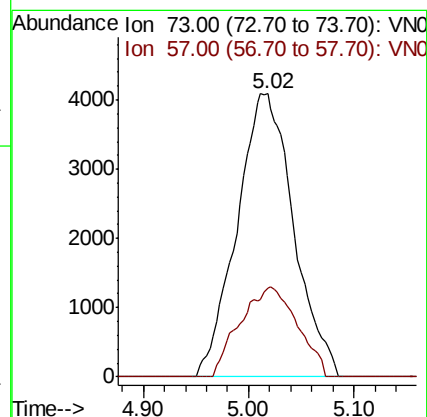
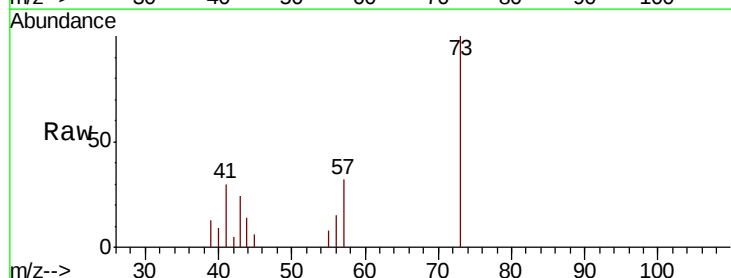
Acq: 14 Nov 2019 16:06

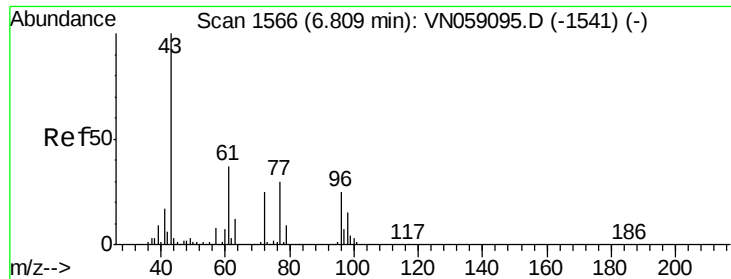
Tgt Ion: 73 Resp: 15272

Ion Ratio Lower Upper

73 100

57 31.6 18.4 27.6#





#25

2-Butanone

Concen: 0.253 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN059236.D

Acq: 14 Nov 2019 16:06

Instrument :

MSVOA_N

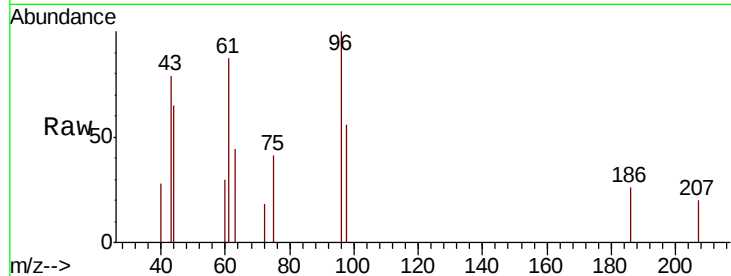
ClientSampled :

Tot Ion: 43 Resp: 1029

Ion Ratio Lower Upper

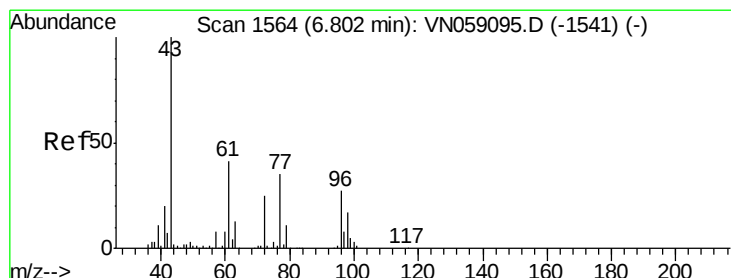
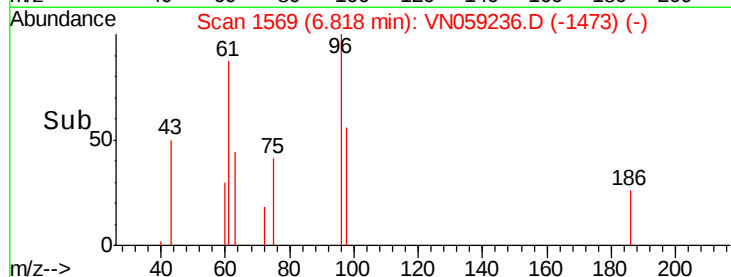
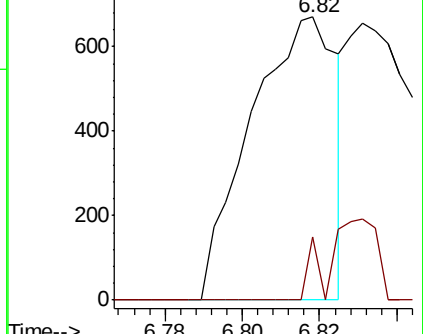
43 100

72 22.4 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#27

cis-1,2-Dichloroethene

Concen: 0.256 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN059236.D

Acq: 14 Nov 2019 16:06

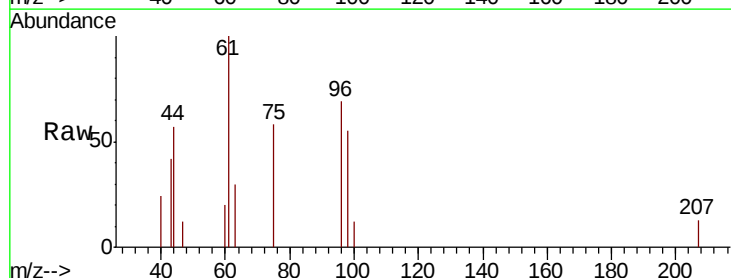
Tgt Ion: 96 Resp: 1436

Ion Ratio Lower Upper

96 100

61 210.8 0.0 311.6

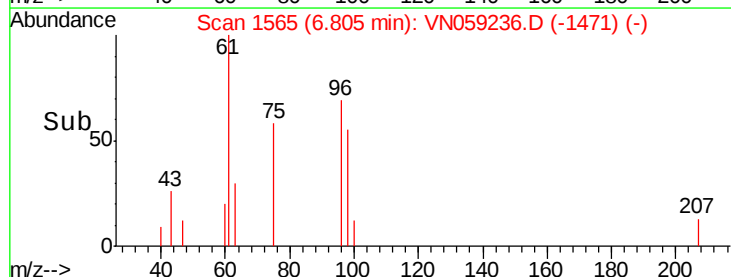
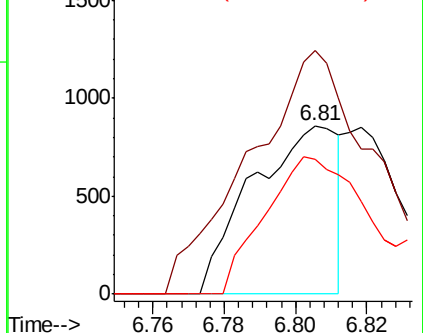
98 93.5 0.0 129.8

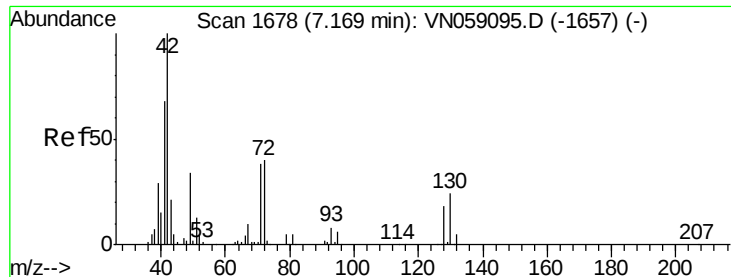


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#28

Bromochloromethane

Concen: 0.675 ug/l

RT: 7.35 min Scan# 1735

Delta R.T. 0.18 min

Lab File: VN059236.D

Acq: 14 Nov 2019 16:06

Instrument :
MSVOA_N
ClientSampleId :

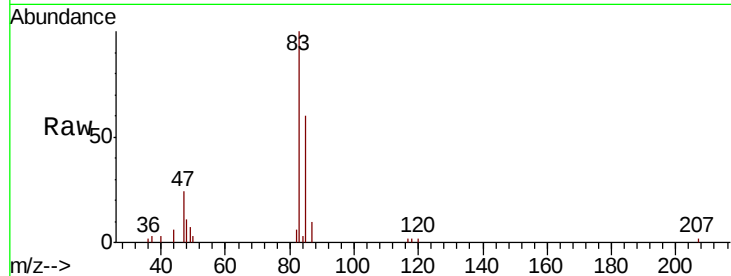
Tot Ion: 49 Resp: 1981

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

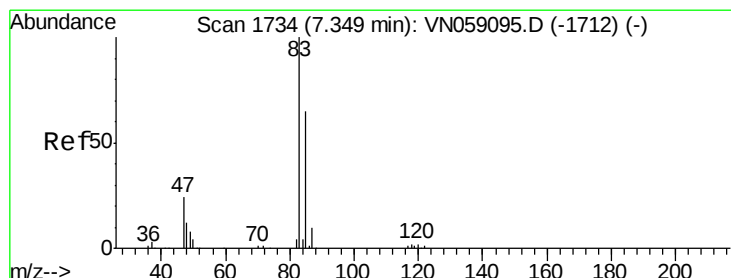
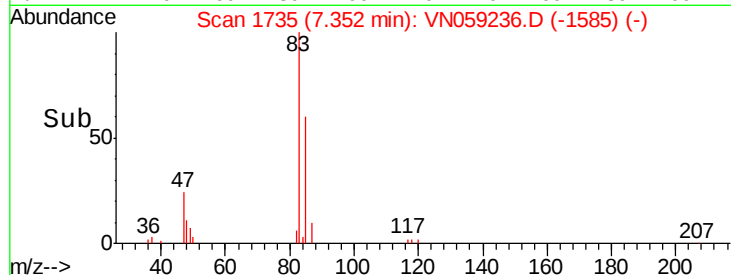
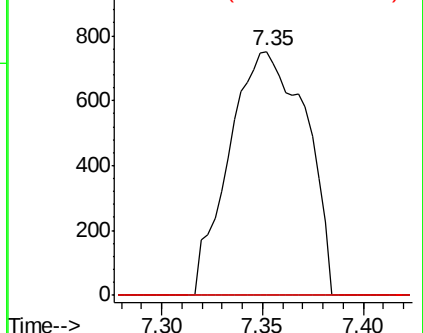
130 0.0 55.6 83.4#



Abundance Ion 48.90 (48.60 to 49.60): VN059095.D (-1657) (-)

Ion 128.80 (128.50 to 129.50): VN059095.D (-1657) (-)

Ion 129.80 (129.50 to 130.50): VN059095.D (-1657) (-)



#30

Chloroform

Concen: 2.756 ug/l

RT: 7.35 min Scan# 1735

Delta R.T. 0.00 min

Lab File: VN059236.D

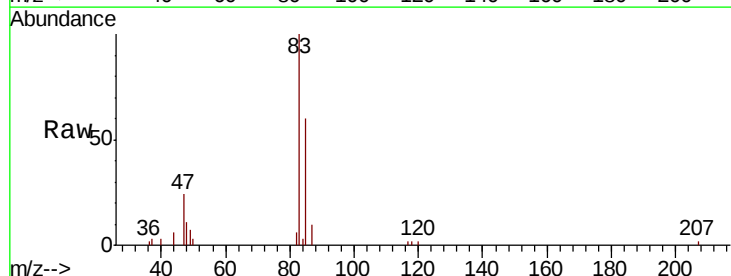
Acq: 14 Nov 2019 16:06

Tgt Ion: 83 Resp: 25775

Ion Ratio Lower Upper

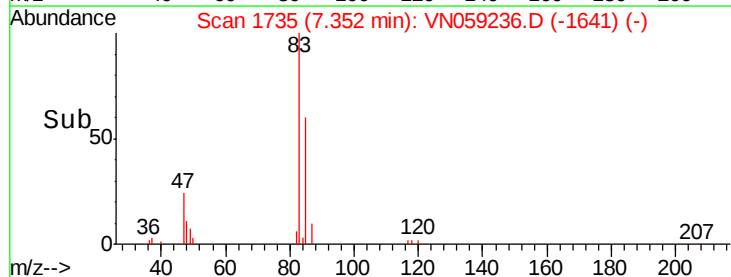
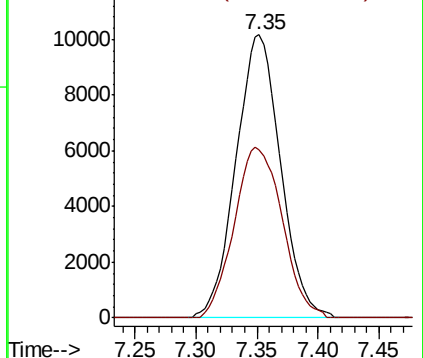
83 100

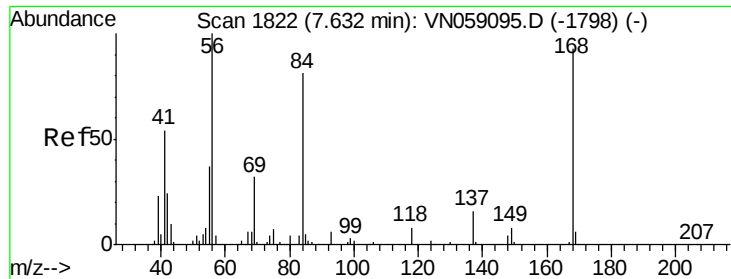
85 59.6 51.8 77.8



Abundance Ion 82.90 (82.60 to 83.60): VN059095.D (-1712) (-)

Ion 84.90 (84.60 to 85.60): VN059095.D (-1712) (-)

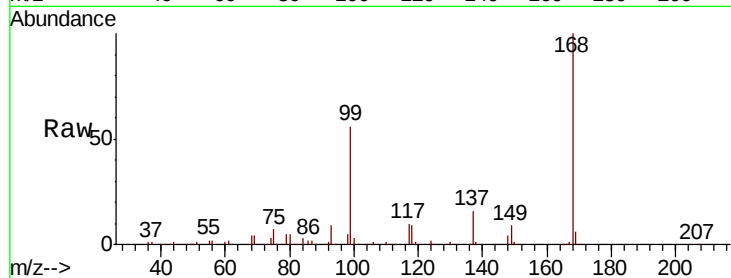




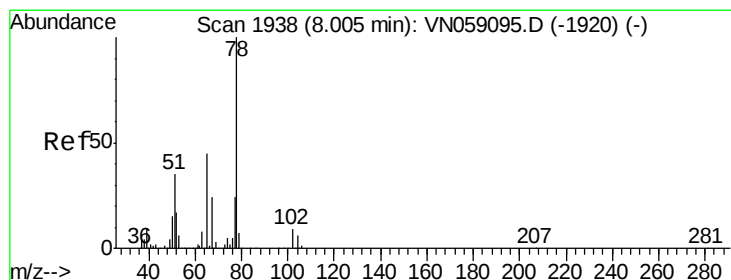
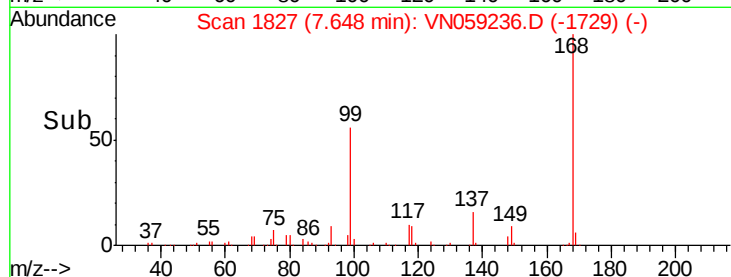
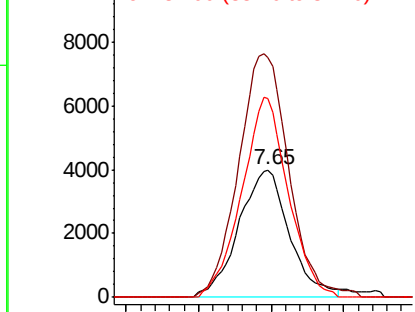
#31
Cyclohexane
Concen: 1.052 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.02 min
Lab File: VN059236.D
Acq: 14 Nov 2019 16:06

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 9709
Ion Ratio Lower Upper
56 100
69 188.1 25.8 38.8#
84 155.8 65.0 97.4#

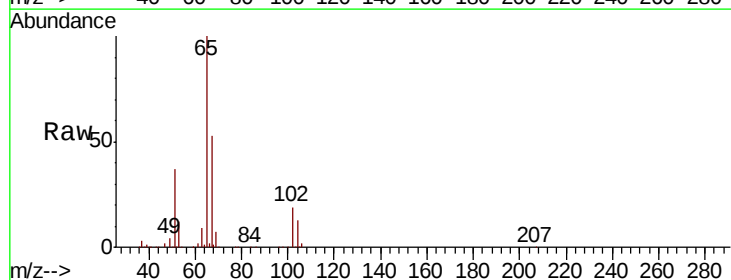


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

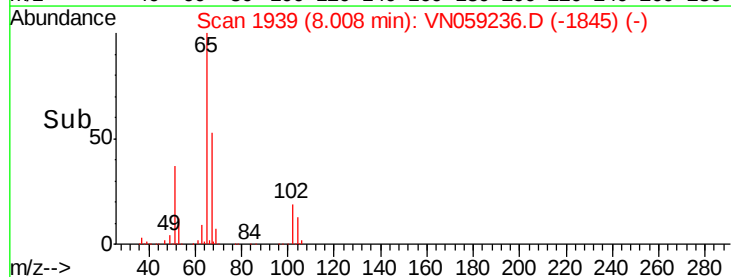
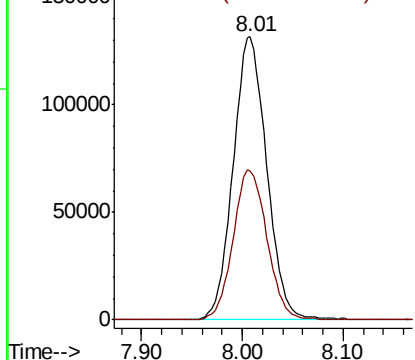


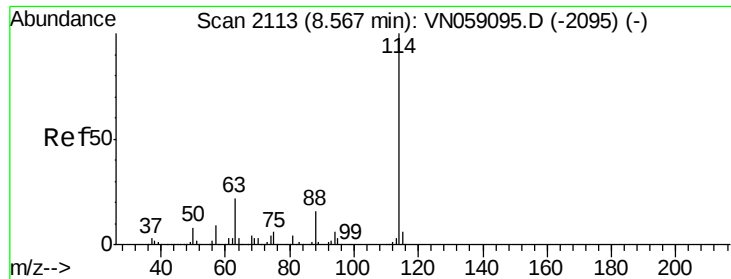
#33
1,2-Dichloroethane-d4
Concen: 51.236 ug/l
RT: 8.01 min Scan# 1939
Delta R.T. 0.00 min
Lab File: VN059236.D
Acq: 14 Nov 2019 16:06

Tgt Ion: 65 Resp: 303707
Ion Ratio Lower Upper
65 100
67 53.5 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

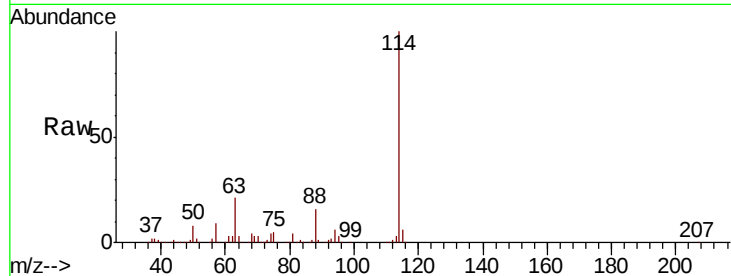




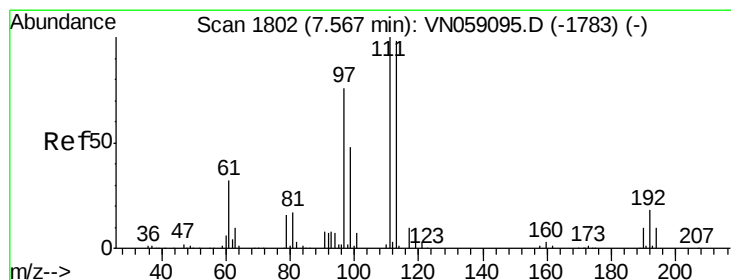
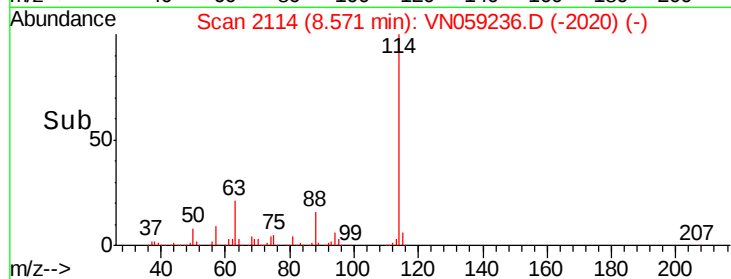
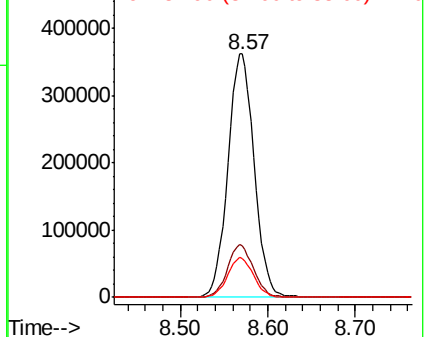
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2114
Delta R.T. 0.00 min
Lab File: VN059236.D
Acq: 14 Nov 2019 16:06

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 752941
Ion Ratio Lower Upper
114 100
63 21.2 0.0 43.4
88 16.2 0.0 32.2

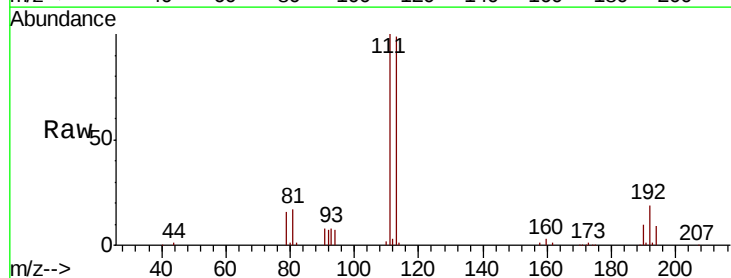


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

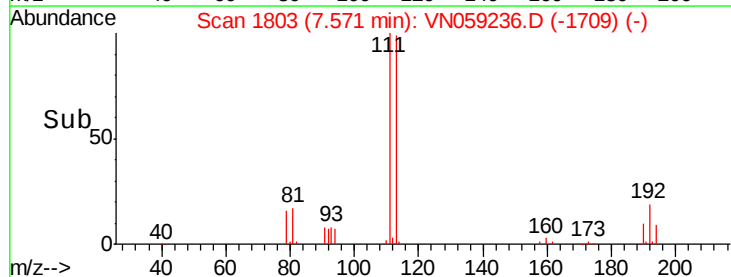
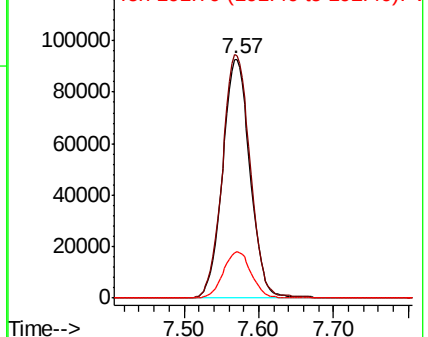


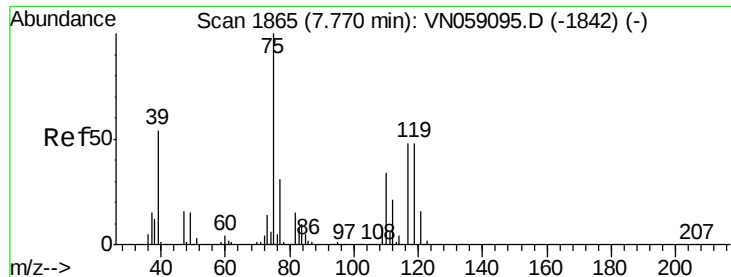
#35
Dibromofluoromethane
Concen: 52.383 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059236.D
Acq: 14 Nov 2019 16:06

Tgt Ion:113 Resp: 235505
Ion Ratio Lower Upper
113 100
111 103.4 82.8 124.2
192 19.6 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

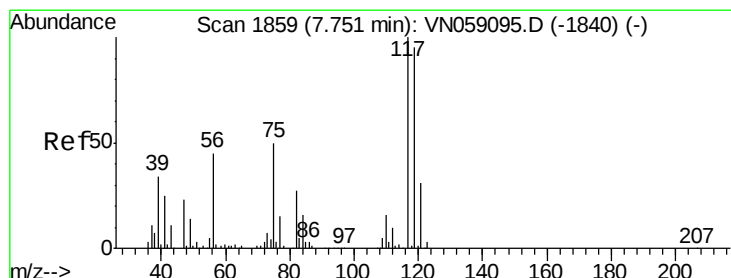
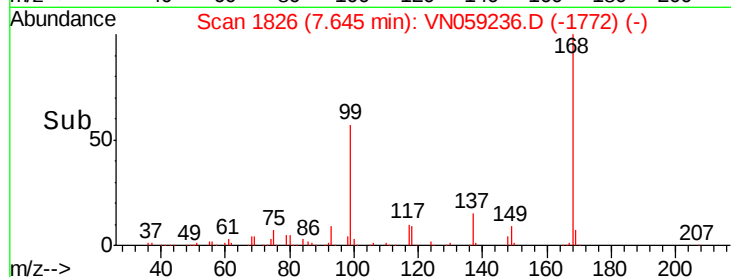
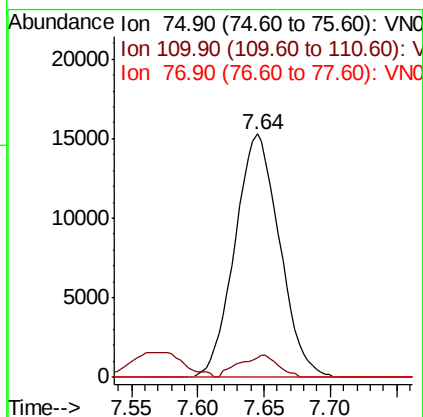
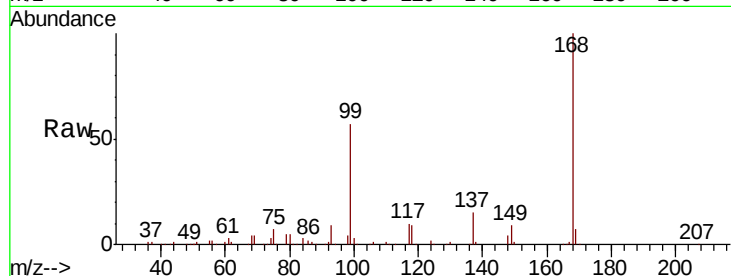




#36
 1,1-Dichloropropene
 Concen: 5.100 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059236.D
 Acq: 14 Nov 2019 16:06

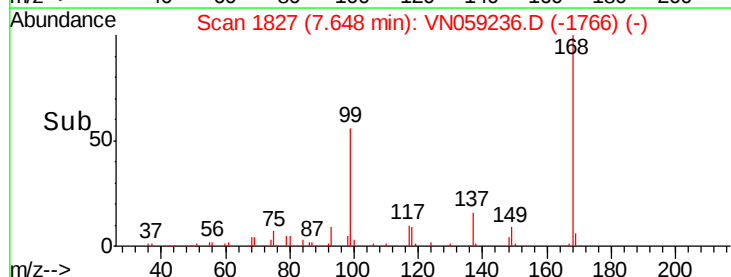
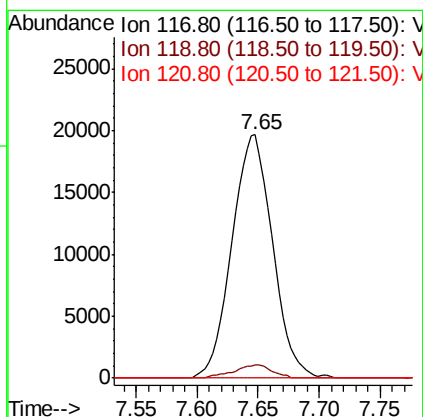
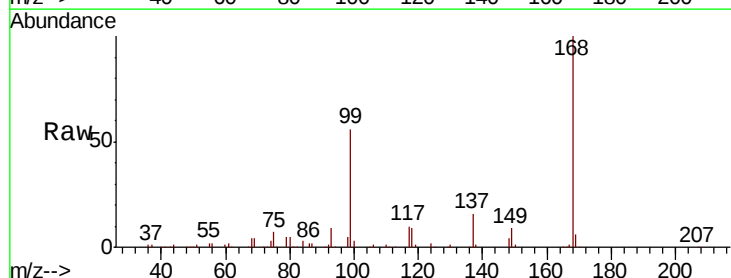
Instrument :
 MSVOA_N
 ClientSampled :

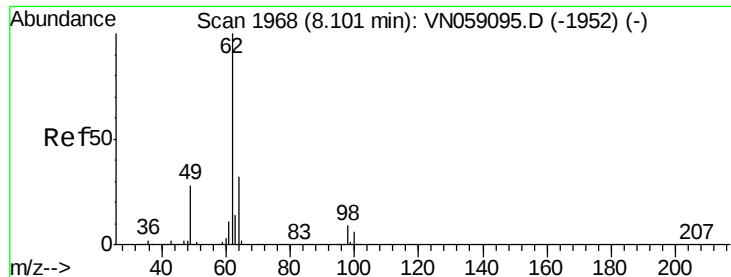
Tot Ion: 75 Resp: 35896
 Ion Ratio Lower Upper
 75 100
 110 7.9 17.1 51.2#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 6.478 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.10 min
 Lab File: VN059236.D
 Acq: 14 Nov 2019 16:06

Tgt Ion: 117 Resp: 45374
 Ion Ratio Lower Upper
 117 100
 119 5.2 75.6 113.4#
 121 0.0 24.6 36.8#





#42

1,2-Dichloroethane

Concen: 0.296 ug/l

RT: 8.10 min Scan# 1969

Delta R.T. 0.00 min

Lab File: VN059236.D

Acq: 14 Nov 2019 16:06

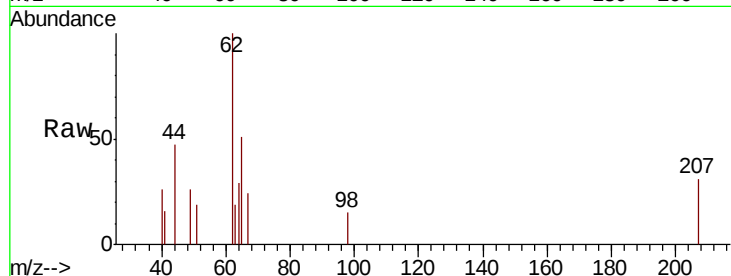
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 62 Resp: 2155

Ion Ratio Lower Upper

62 100

98 3.0 0.0 17.8



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

8.10

1200

1000

800

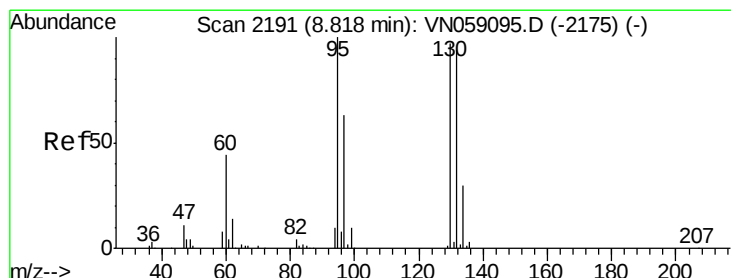
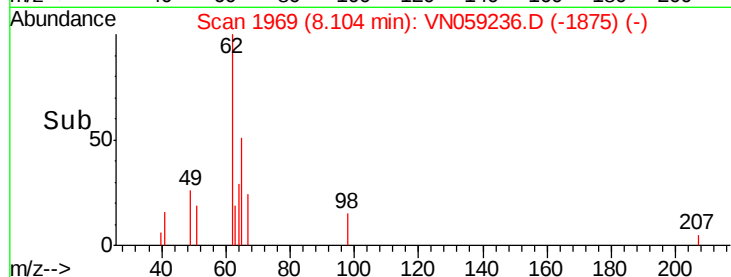
600

400

200

0

Time--> 8.05 8.10 8.15



#44

Trichloroethene

Concen: 13.255 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VN059236.D

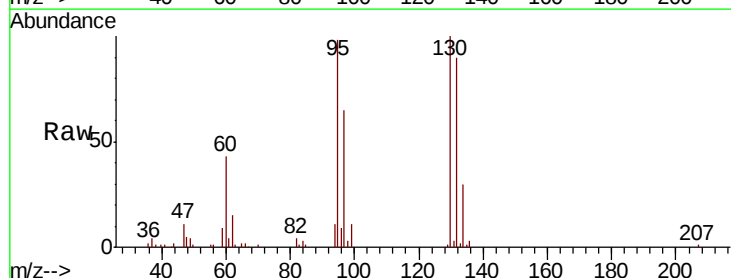
Acq: 14 Nov 2019 16:06

Tgt Ion:130 Resp: 69055

Ion Ratio Lower Upper

130 100

95 98.3 0.0 206.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

8.82

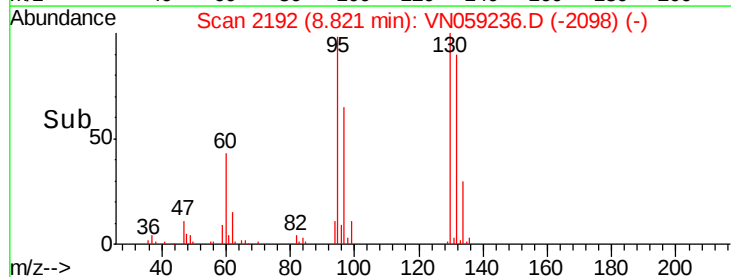
30000

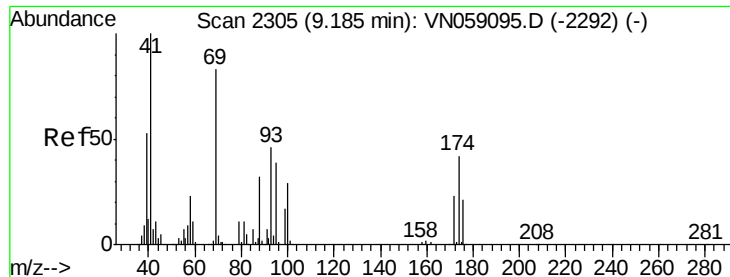
20000

10000

0

Time--> 8.75 8.80 8.85 8.90

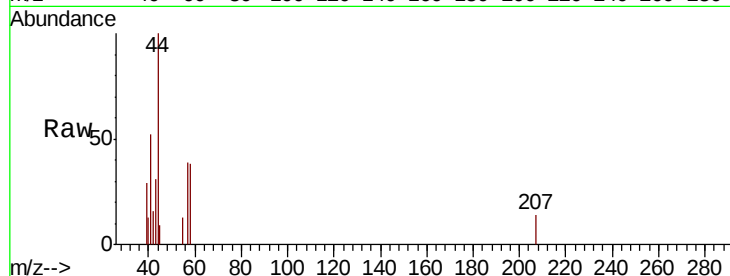




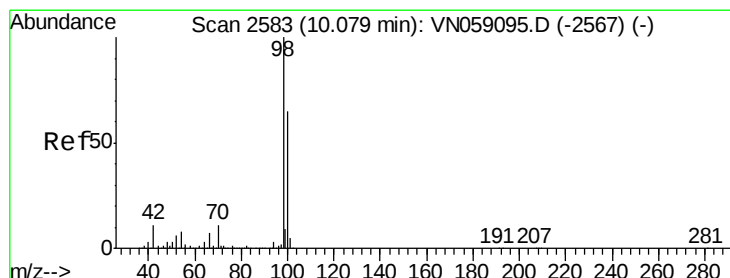
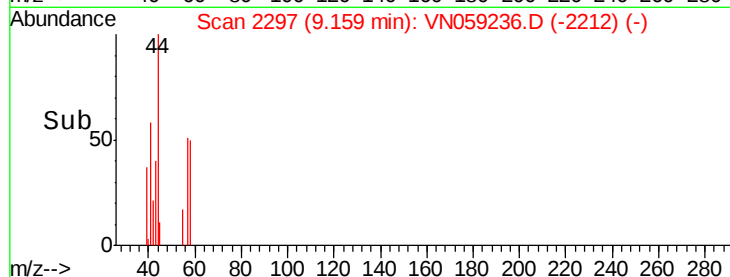
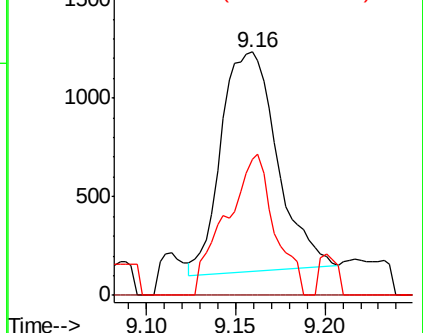
#48
Methvl methacrvlate
Concen: 0.437 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.03 min
Lab File: VN059236.D
Acq: 14 Nov 2019 16:06

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2440
Ion Ratio Lower Upper
41 100
69 0.0 67.3 100.9#
39 55.2 43.3 64.9

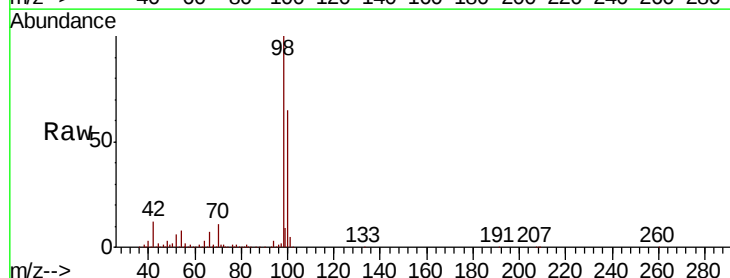


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

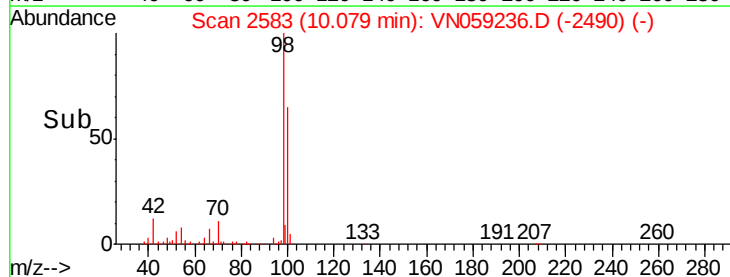
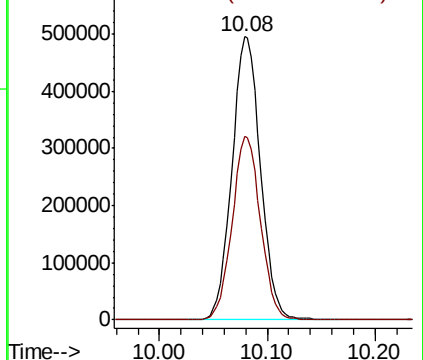


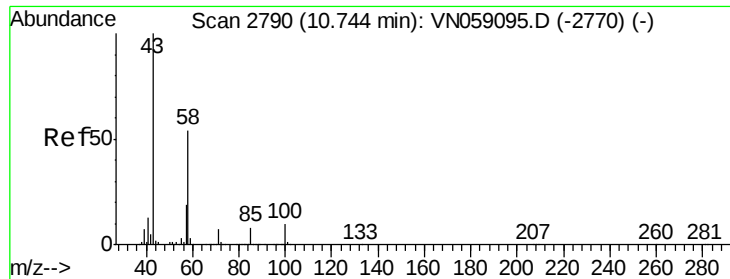
#50
Toluene-d8
Concen: 51.652 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059236.D
Acq: 14 Nov 2019 16:06

Tgt Ion: 98 Resp: 914685
Ion Ratio Lower Upper
98 100
100 64.4 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

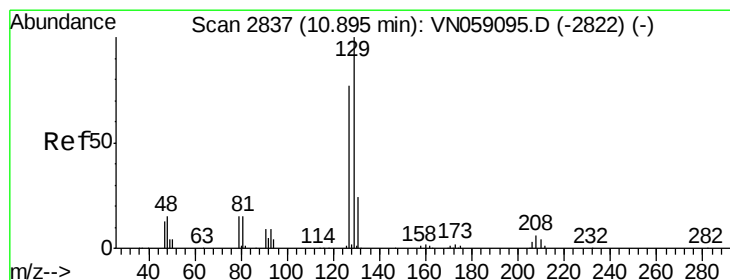
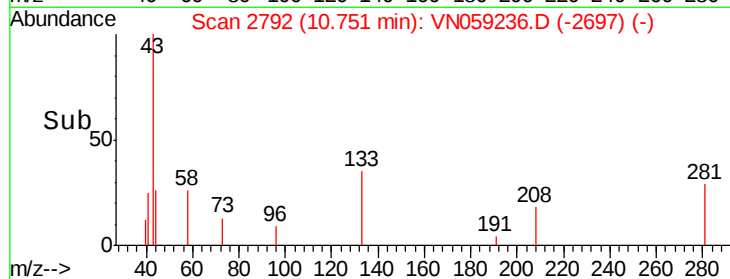
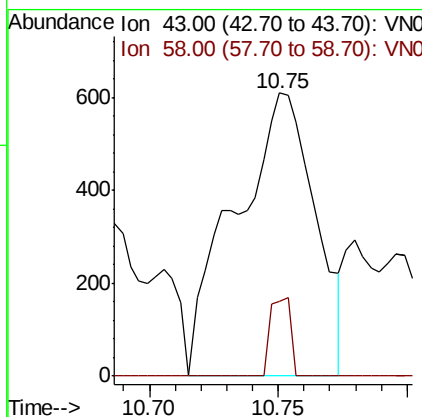
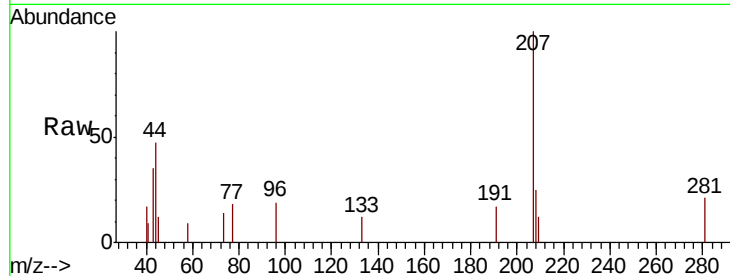




#59
2-Hexanone
Concen: 0.244 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN059236.D
Acq: 14 Nov 2019 16:06

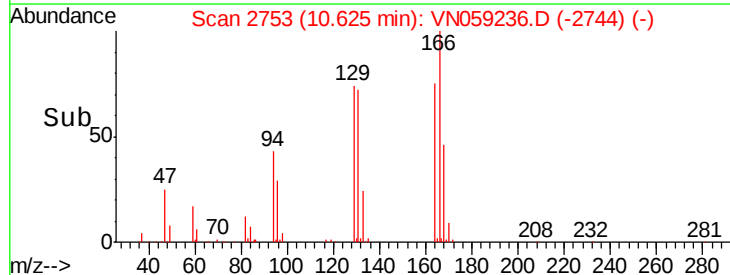
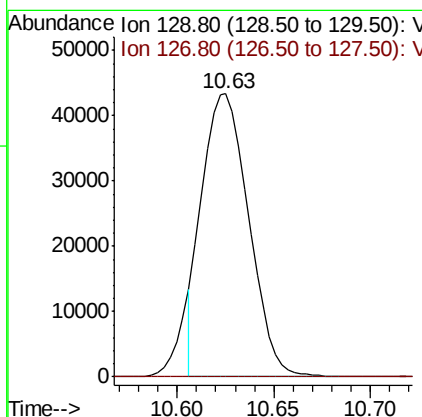
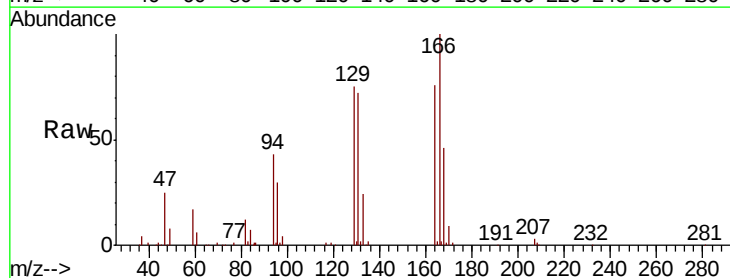
Instrument :
MSVOA_N
ClientSampleId :

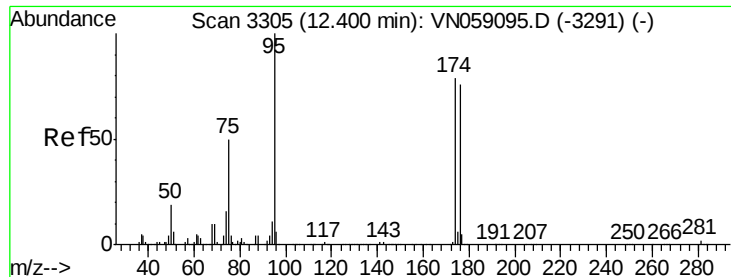
Tot Ion: 43 Resp: 1324
Ion Ratio Lower Upper
43 100
58 0.0 27.3 81.8#



#60
Dibromochloromethane
Concen: 13.403 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. -0.27 min
Lab File: VN059236.D
Acq: 14 Nov 2019 16:06

Tgt Ion: 129 Resp: 72850
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 46.156 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN059236.D

Acq: 14 Nov 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

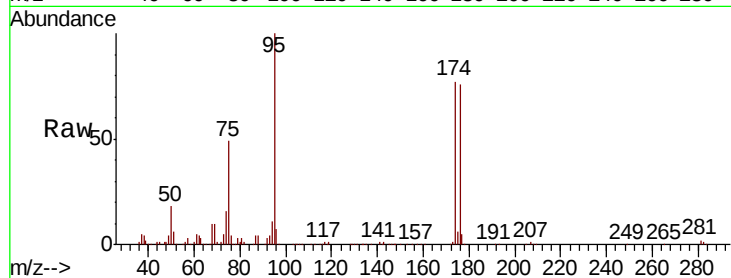
Tot Ion: 95 Resp: 294704

Ion Ratio Lower Upper

95 100

174 77.0 0.0 158.2

176 76.5 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VN059095.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN059095.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN059095.D (-3291) (-)

12.40

200000

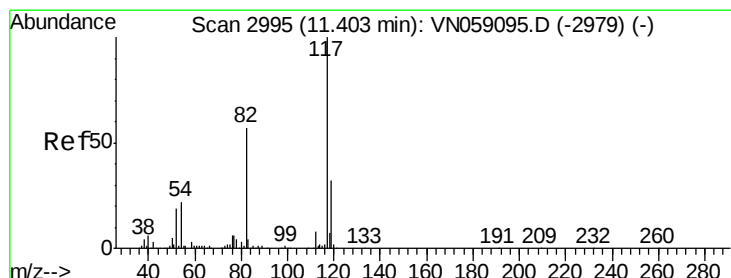
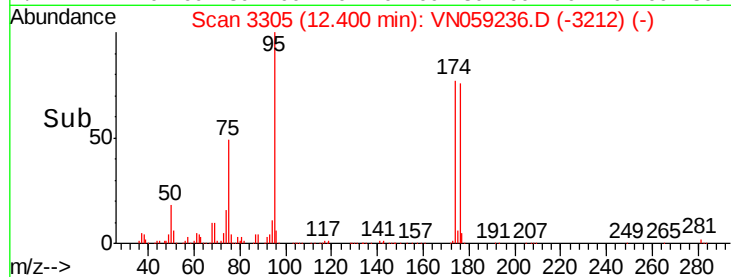
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN059236.D

Acq: 14 Nov 2019 16:06

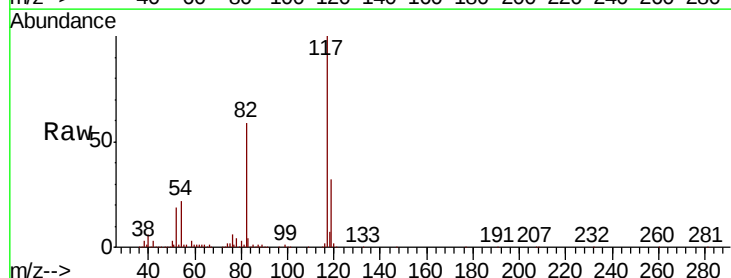
Tgt Ion: 117 Resp: 652977

Ion Ratio Lower Upper

117 100

82 58.6 45.8 68.8

119 32.4 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN059095.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN059095.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN059095.D (-2979) (-)

11.40

500000

400000

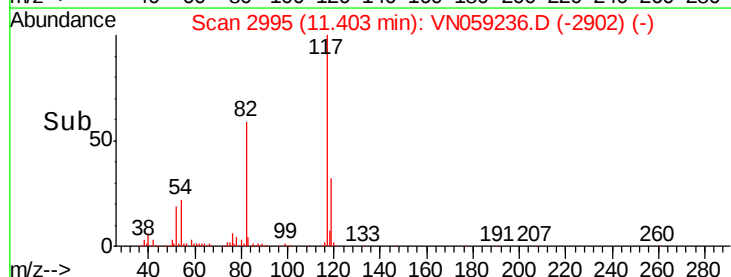
300000

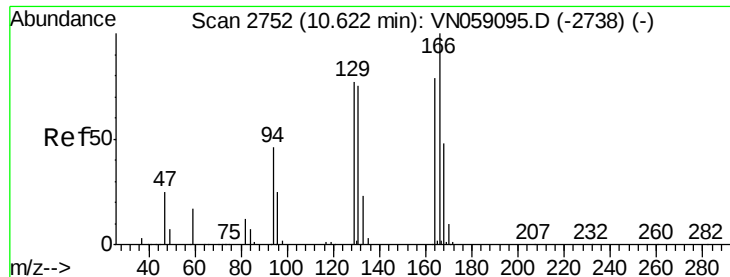
200000

100000

0

Time--> 11.30 11.40 11.50





#64

Tetrachloroethene

Concen: 18.351 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VN059236.D

Acq: 14 Nov 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:164 Resp: 81480

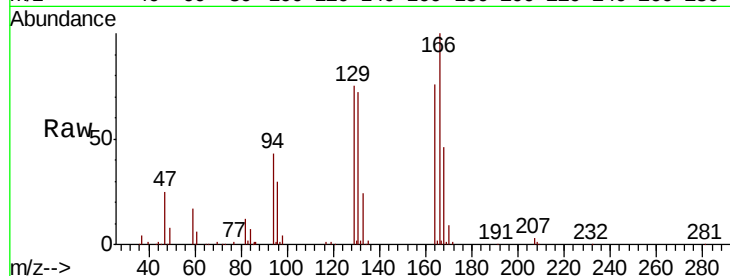
Ion Ratio Lower Upper

164 100

166 131.8 101.5 152.3

129 98.4 78.3 117.5

131 94.3 75.9 113.9



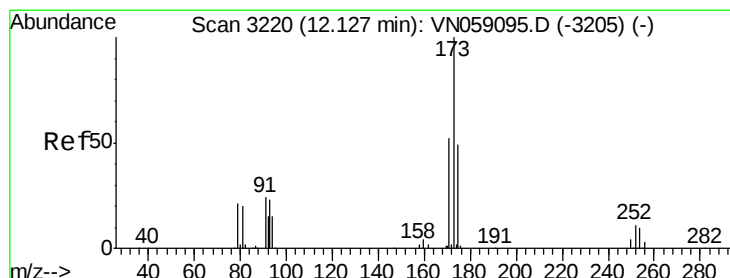
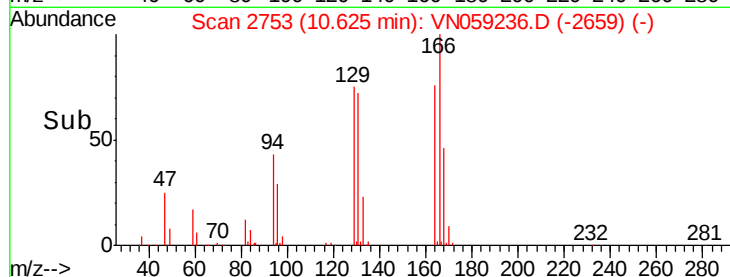
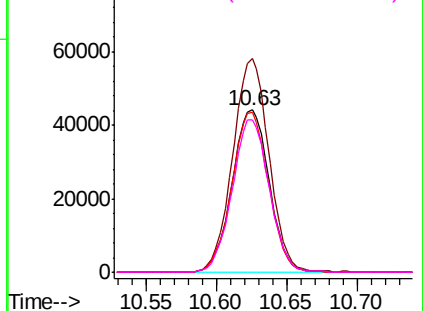
Abundance

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



#71

Bromoform

Concen: 0.420 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN059236.D

Acq: 14 Nov 2019 16:06

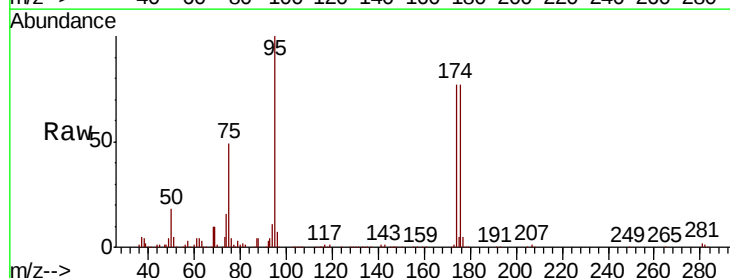
Tgt Ion:173 Resp: 1560

Ion Ratio Lower Upper

173 100

175 911.3 24.2 72.6#

254 0.0 0.1 0.1#

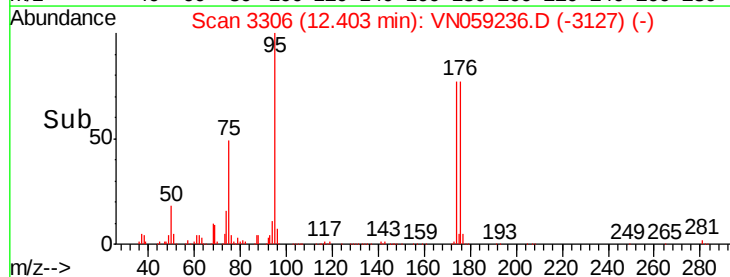
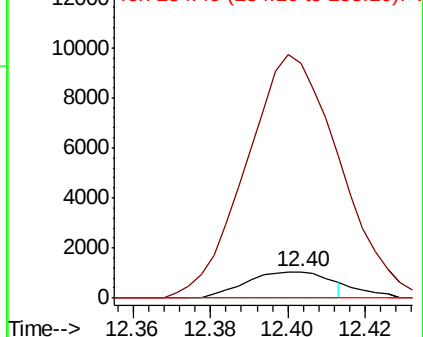


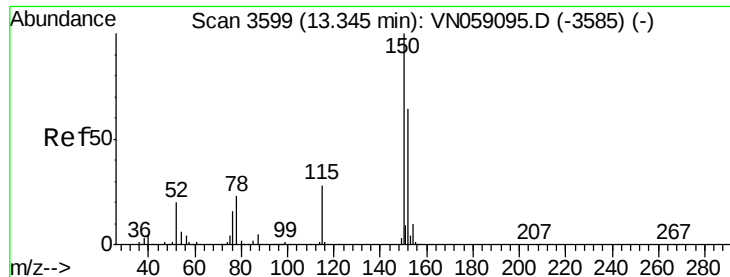
Abundance

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



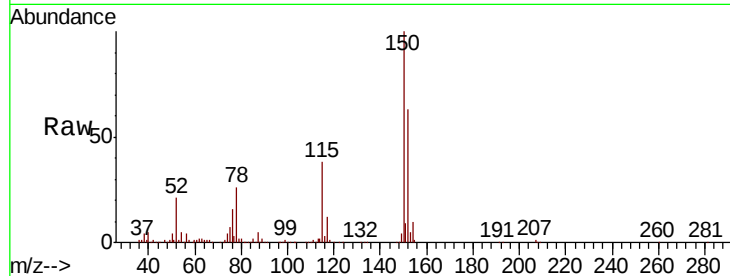


#72

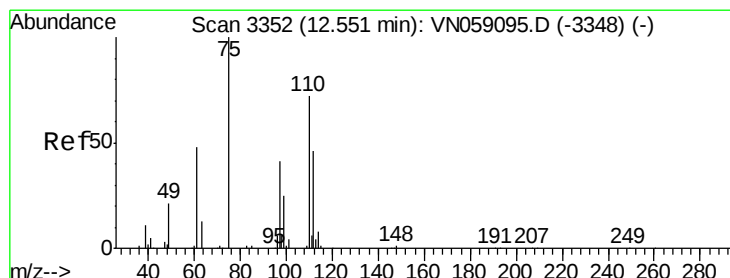
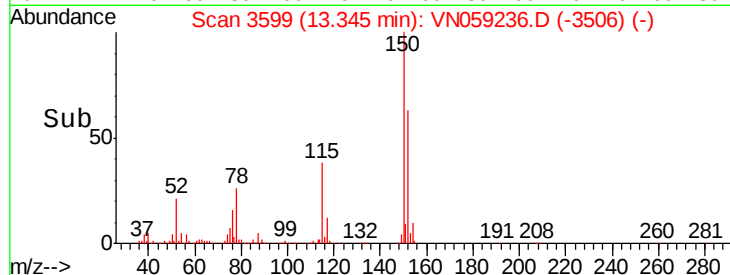
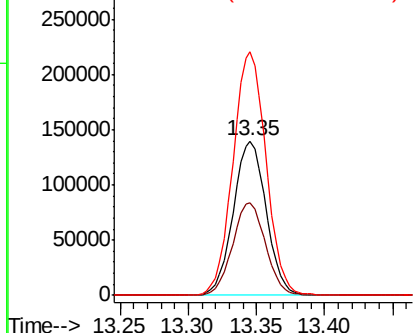
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN059236.D
Acq: 14 Nov 2019 16:06

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.1	29.4	88.2
150	159.0	0.0	345.8



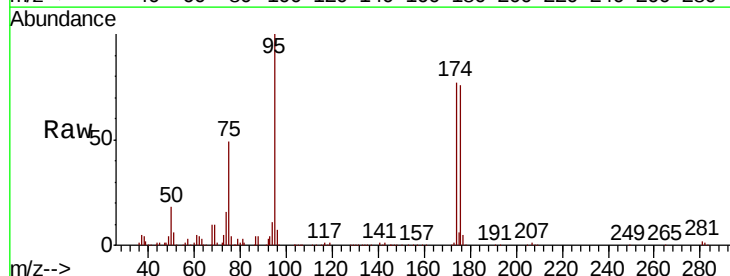
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



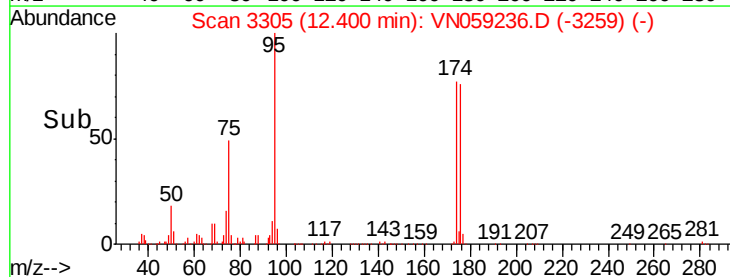
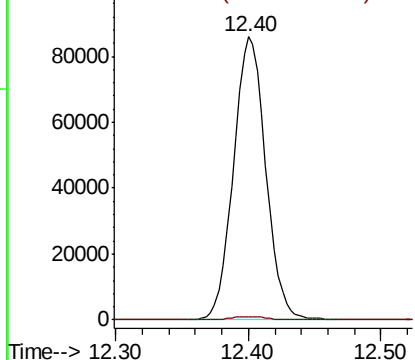
#76

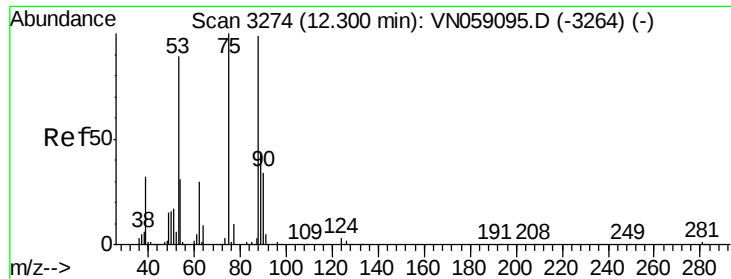
1,2,3-Trichloropropane
Concen: 27.211 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN059236.D
Acq: 14 Nov 2019 16:06

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	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: 71.872 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059236.D

Acq: 14 Nov 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

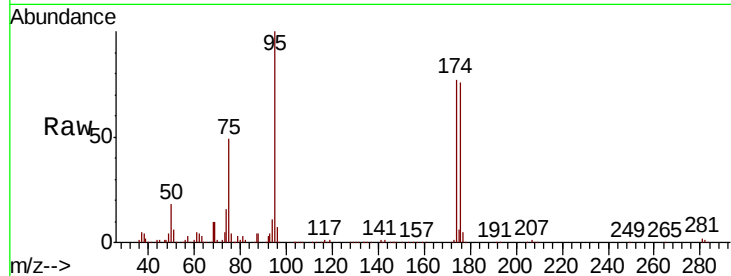
Tot Ion: 75 Resp: 145116

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

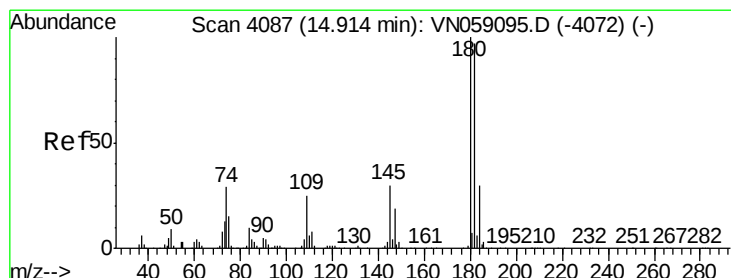
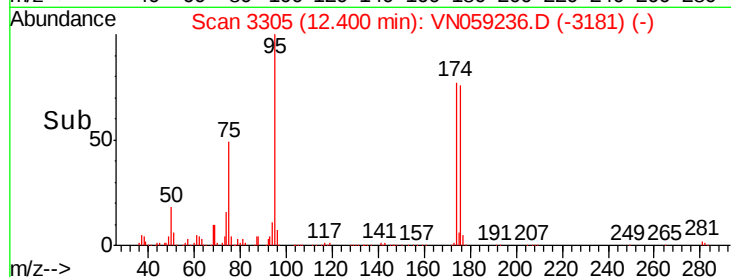
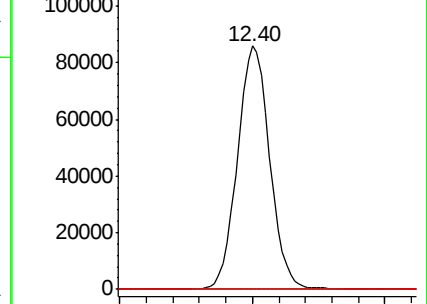
89 0.0 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VN059095.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN059095.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN059095.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.059 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.01 min

Lab File: VN059236.D

Acq: 14 Nov 2019 16:06

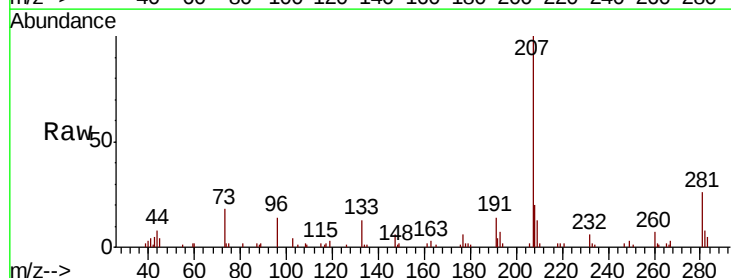
Tgt Ion: 180 Resp: 60

Ion Ratio Lower Upper

180 100

182 113.3 48.1 144.3

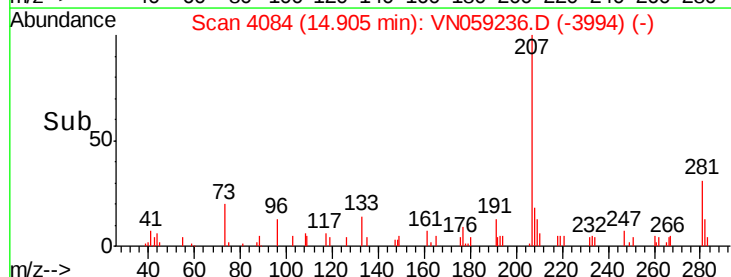
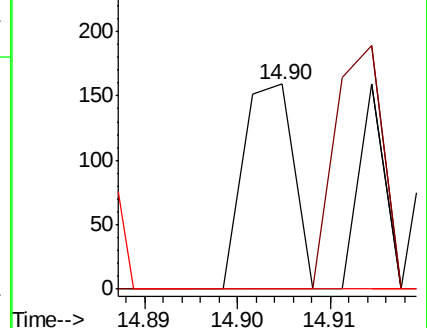
145 0.0 15.1 45.3#

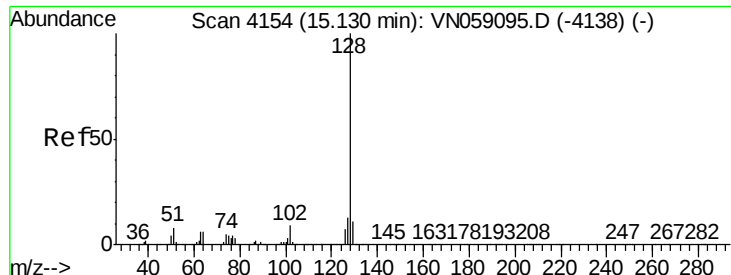


Abundance Ion 179.80 (179.50 to 180.50): VN059095.D (-4072) (-)

Ion 181.80 (181.50 to 182.50): VN059095.D (-4072) (-)

Ion 144.80 (144.50 to 145.50): VN059095.D (-4072) (-)

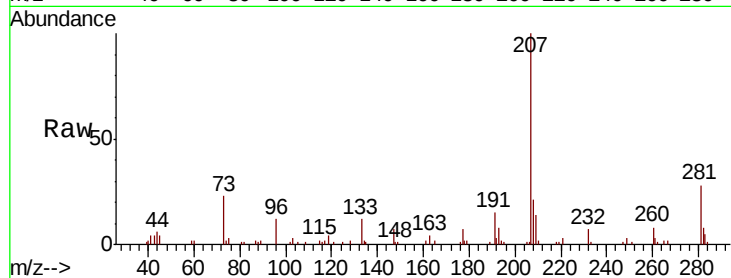




#95
Naphthalene
Concen: 3.096 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN059236.D
Acq: 14 Nov 2019 16:06

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	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

