

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111219\
 Data File : VN059187.D
 Acq On : 12 Nov 2019 14:01
 Operator : JC/SP
 Sample : K5777-06ME
 Misc : 5.41g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 AOC-7-NORTH-(10)ME

Quant Time: Nov 13 05:39:15 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	402937	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	628632	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	553414	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	219460	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	264087	53.32	ug/l	0.00
Spiked Amount			Recovery	=	106.64%	
35) Dibromofluoromethane	7.57	113	197551	52.63	ug/l	0.00
Spiked Amount			Recovery	=	105.26%	
50) Toluene-d8	10.08	98	767846	51.93	ug/l	0.00
Spiked Amount			Recovery	=	103.86%	
62) 4-Bromofluorobenzene	12.40	95	246868	46.31	ug/l	0.00
Spiked Amount			Recovery	=	92.62%	

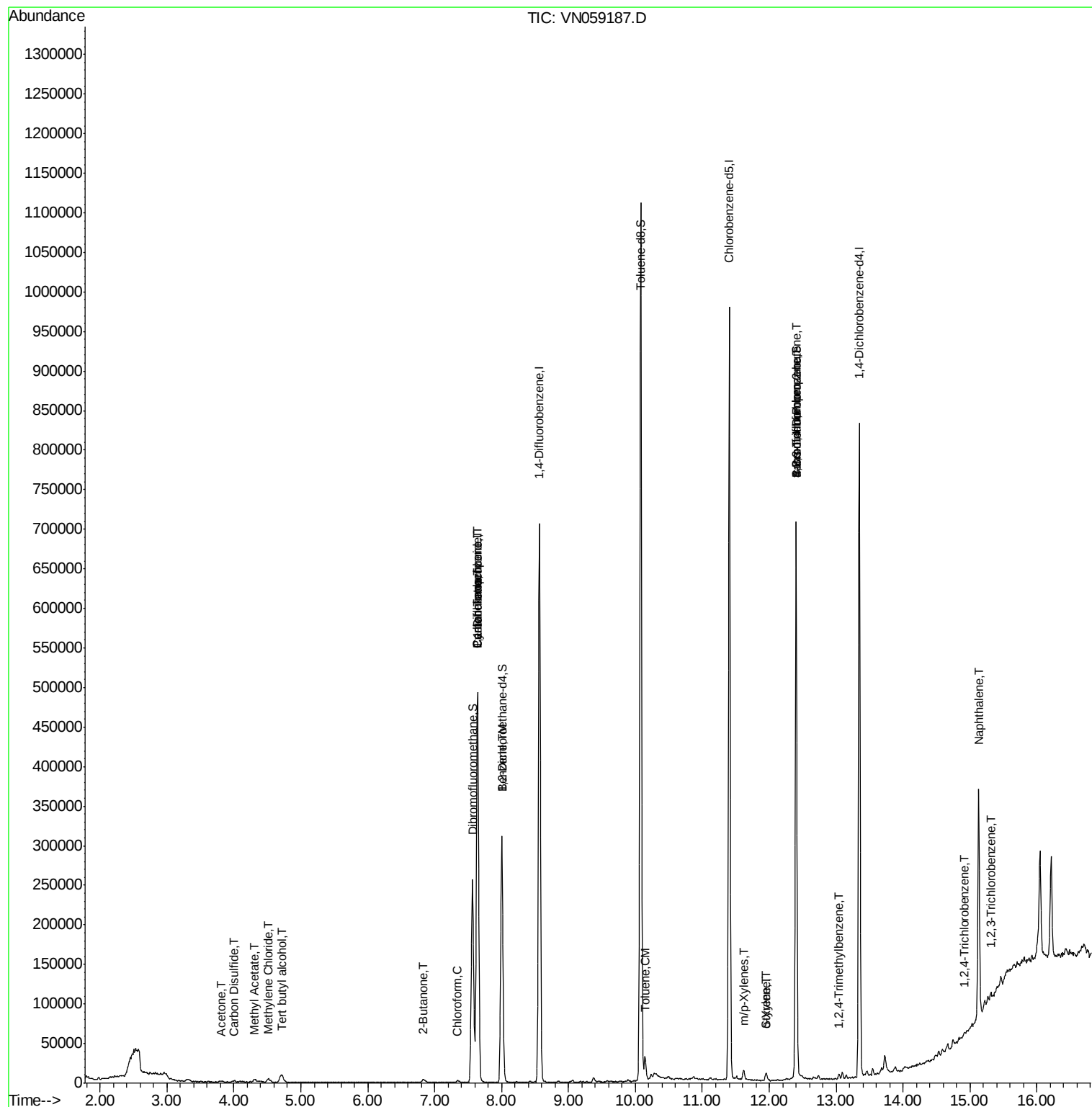
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	10313	10.925	ug/l #	72
16) Acetone	3.81	43	919	0.357	ug/l #	66
17) Carbon Disulfide	4.01	76	4107	0.352	ug/l #	85
18) Methyl Acetate	4.31	43	6846	1.120	ug/l #	76
20) Methylene Chloride	4.51	84	3407	0.759	ug/l	94
25) 2-Butanone	6.83	43	3821	1.126	ug/l	100
30) Chloroform	7.35	83	3138	0.402	ug/l	97
31) Cyclohexane	7.64	56	8280	1.074	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	31433	5.349	ug/l #	51
38) Carbon Tetrachloride	7.64	117	38933	6.657	ug/l #	18
40) Benzene	8.01	78	11269	0.637	ug/l	97
52) Toluene	10.15	92	10514	0.991	ug/l	100
68) m/p-Xylenes	11.62	106	4179	0.583	ug/l	97
69) o-Xylene	11.95	106	1714	0.247	ug/l	97
70) Styrene	11.96	104	3005	0.276	ug/l	92
71) Bromoform	12.40	173	1353	0.430	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	123493	24.717	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	123493	65.283	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	4383	0.335	ug/l	97
93) 1,2,4-Trichlorobenzene	14.91	180	1138	3.307	ug/l #	80
95) Naphthalene	15.13	128	234600	22.418	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	1644	0.434	ug/l #	78

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

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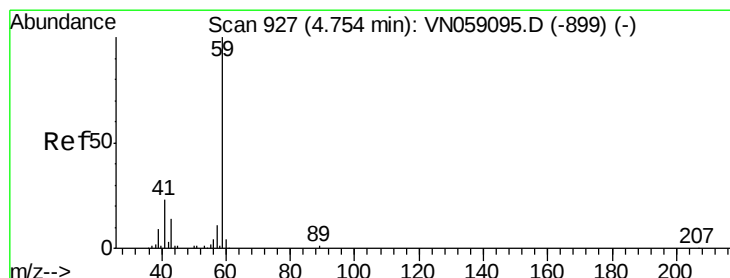
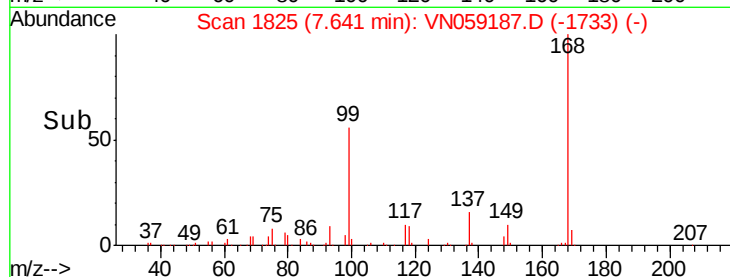
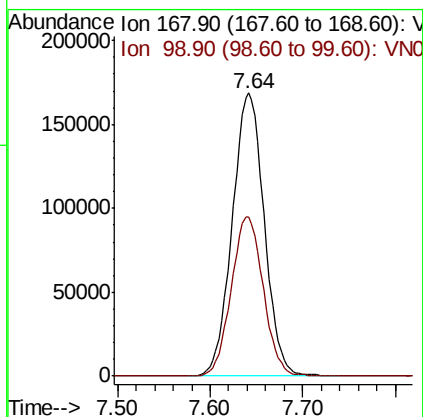
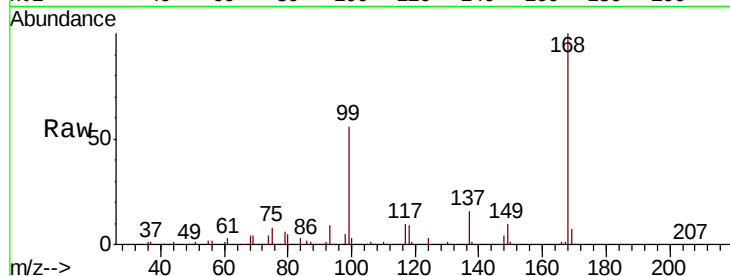




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.00 min
Lab File: VN059187.D
Acq: 12 Nov 2019 14:01

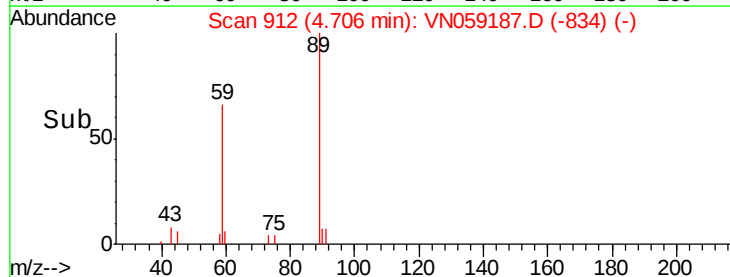
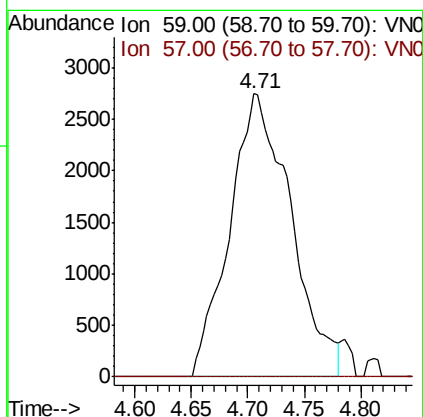
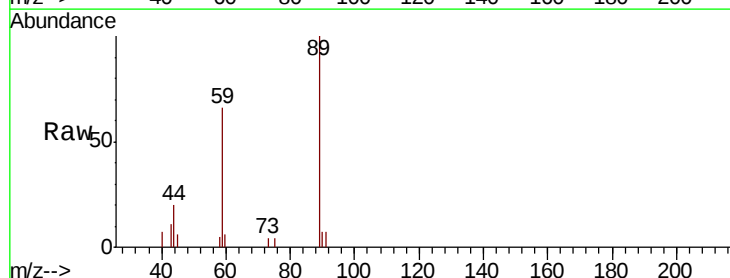
Instrument :
MSVOA_N
ClientSampleId :
AOC-7-NORTH-(10)ME

Tot Ion:168 Resp: 402937
Ion Ratio Lower Upper
168 100
99 56.3 45.7 68.5



#11
Tert butyl alcohol
Concen: 10.925 ug/l
RT: 4.71 min Scan# 912
Delta R.T. -0.05 min
Lab File: VN059187.D
Acq: 12 Nov 2019 14:01

Tgt Ion: 59 Resp: 10313
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#16

Acetone

Concen: 0.357 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.02 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

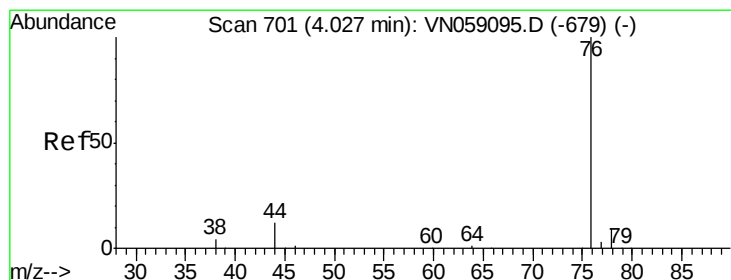
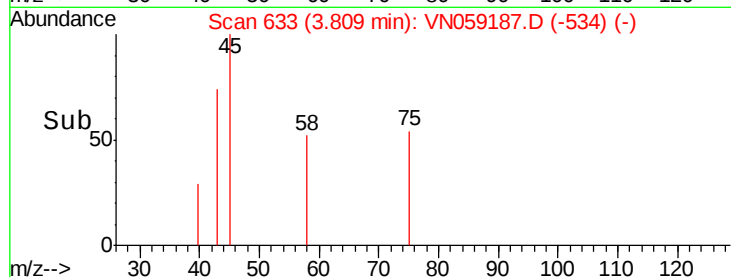
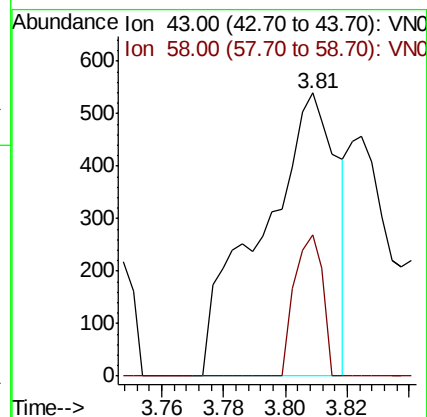
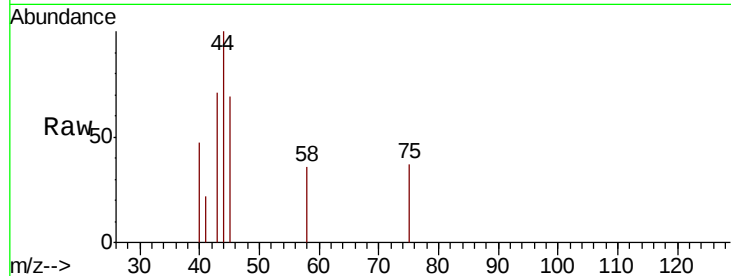
AOC-7-NORTH-(10)ME

Tot Ion: 43 Resp: 919

Ion Ratio Lower Upper

43 100

58 49.9 24.9 37.3#



#17

Carbon Disulfide

Concen: 0.352 ug/l

RT: 4.01 min Scan# 696

Delta R.T. -0.02 min

Lab File: VN059187.D

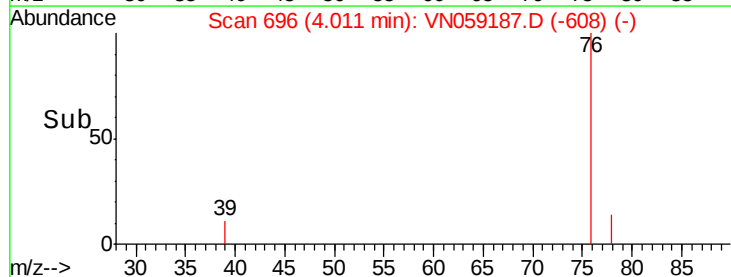
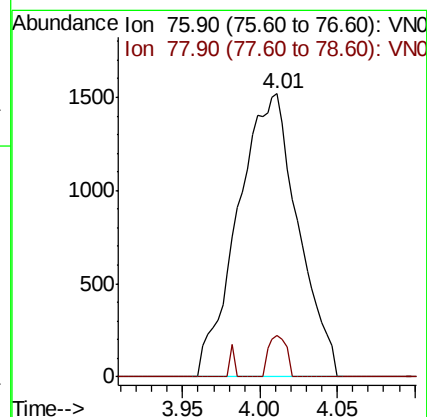
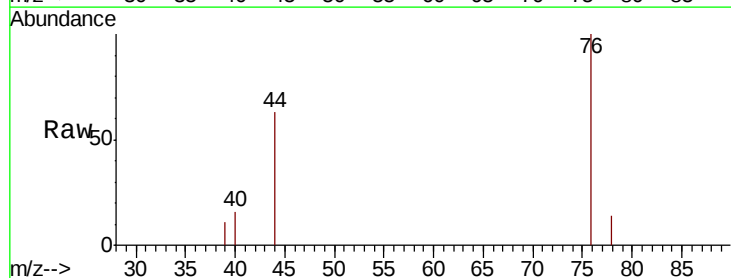
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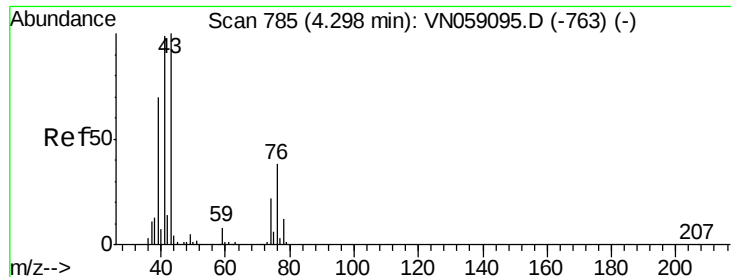
Tgt Ion: 76 Resp: 4107

Ion Ratio Lower Upper

76 100

78 14.5 7.4 11.0#





#18

Methyl Acetate

Concen: 1.120 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.01 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

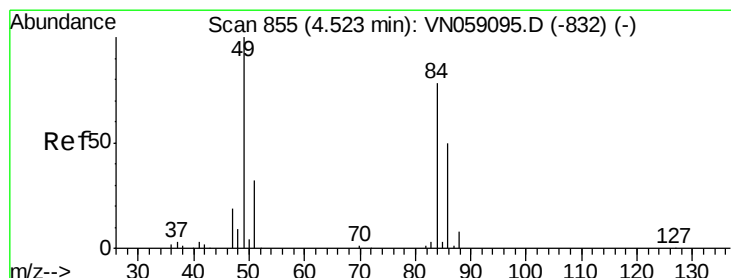
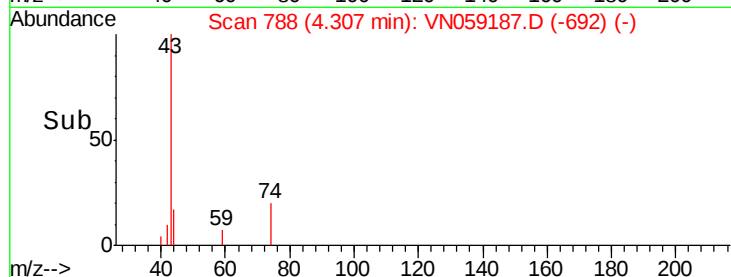
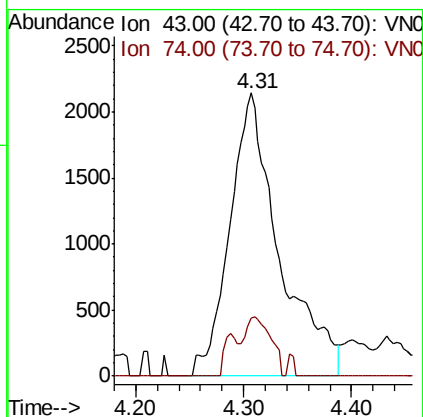
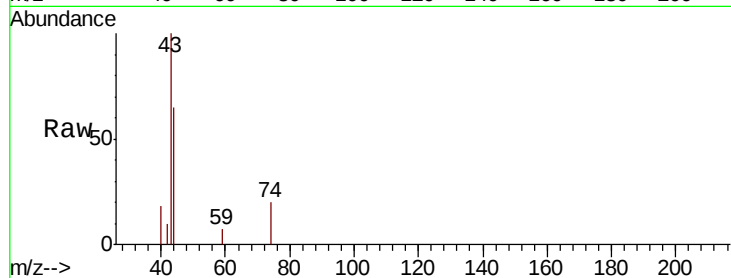
AOC-7-NORTH-(10)ME

Tot Ion: 43 Resp: 6846

Ion Ratio Lower Upper

43 100

74 10.6 17.8 26.8#



#20

Methylene Chloride

Concen: 0.759 ug/l

RT: 4.51 min Scan# 850

Delta R.T. -0.02 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

Tgt Ion: 84 Resp: 3407

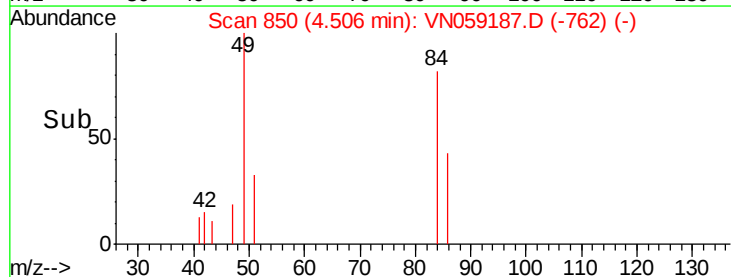
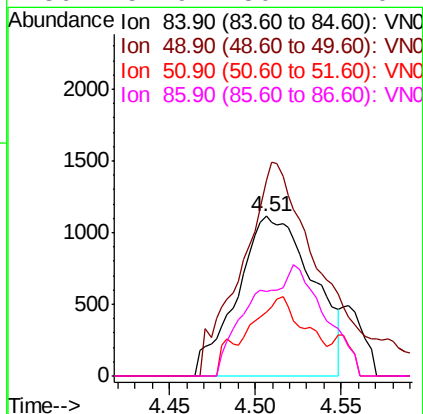
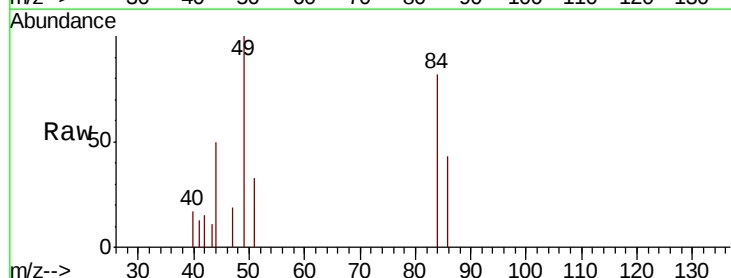
Ion Ratio Lower Upper

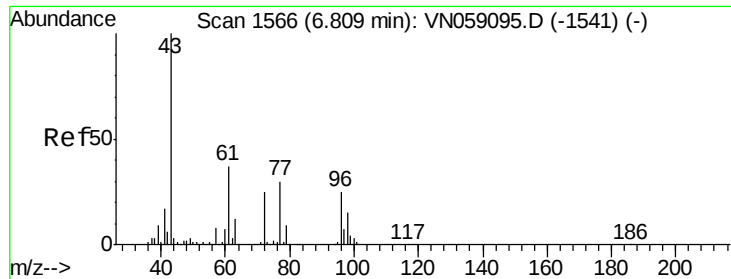
84 100

49 122.5 102.0 153.0

51 40.0 32.2 48.2

86 52.9 50.7 76.1





#25

2-Butanone

Concen: 1.126 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.02 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

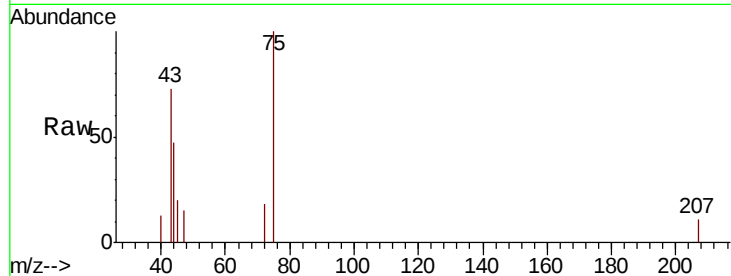
AOC-7-NORTH-(10)ME

Tot Ion: 43 Resp: 3821

Ion Ratio Lower Upper

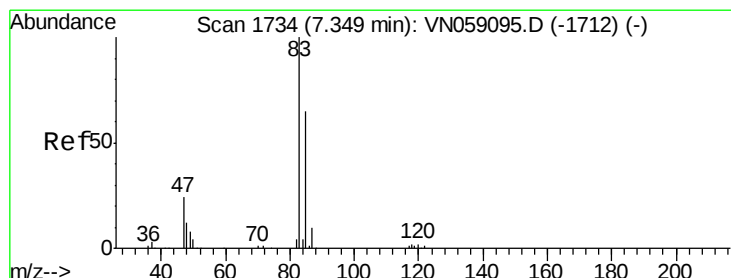
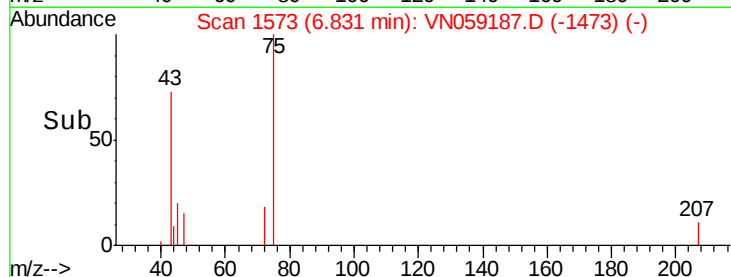
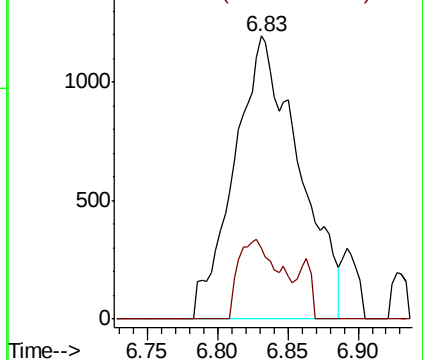
43 100

72 25.3 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#30

Chloroform

Concen: 0.402 ug/l

RT: 7.35 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VN059187.D

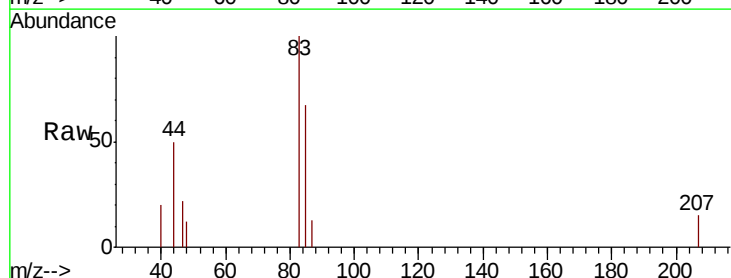
Acq: 12 Nov 2019 14:01

Tgt Ion: 83 Resp: 3138

Ion Ratio Lower Upper

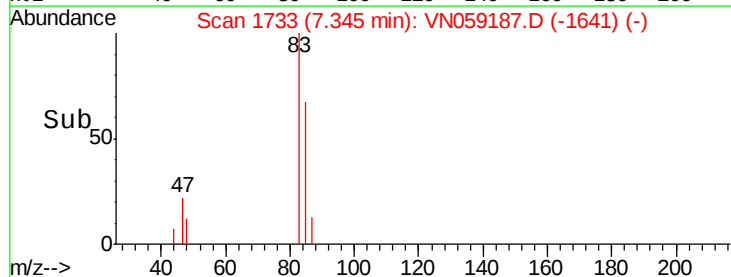
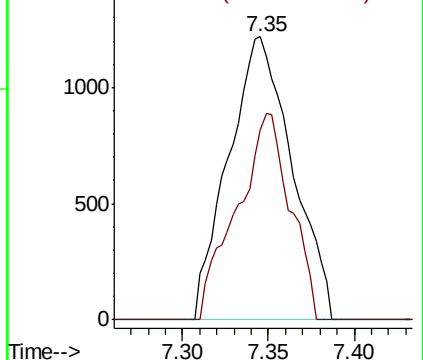
83 100

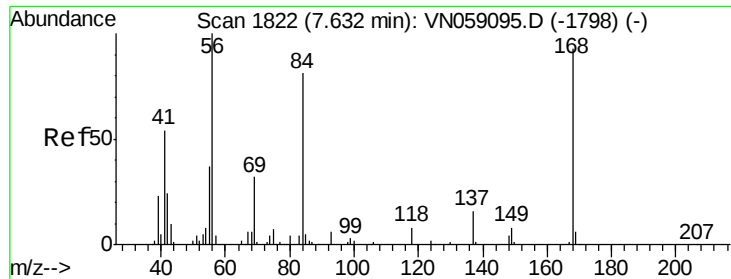
85 67.0 51.8 77.8



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

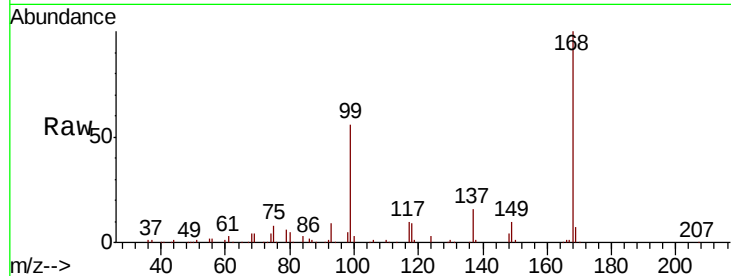




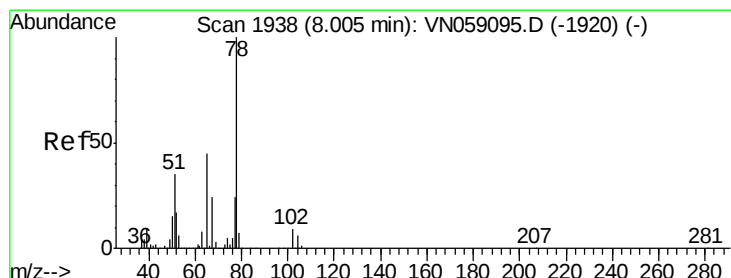
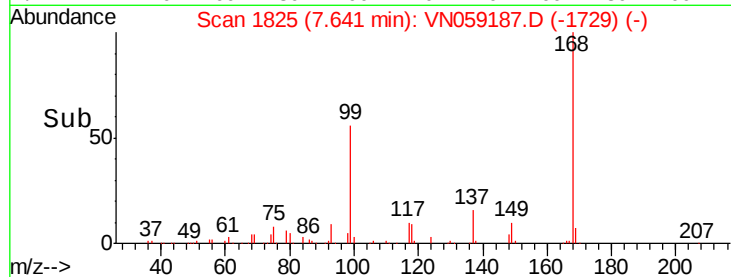
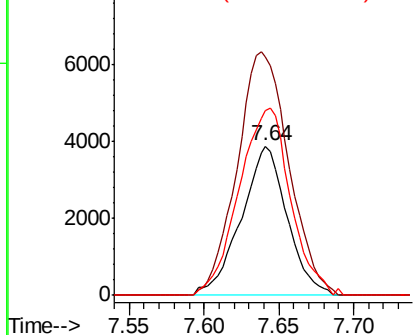
#31
Cyclohexane
Concen: 1.074 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059187.D
Acq: 12 Nov 2019 14:01

Instrument :
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ClientSampleId :
AOC-7-NORTH-(10)ME

Tot Ion: 56 Resp: 8280
Ion Ratio Lower Upper
56 100
69 159.9 25.8 38.8#
84 124.0 65.0 97.4#

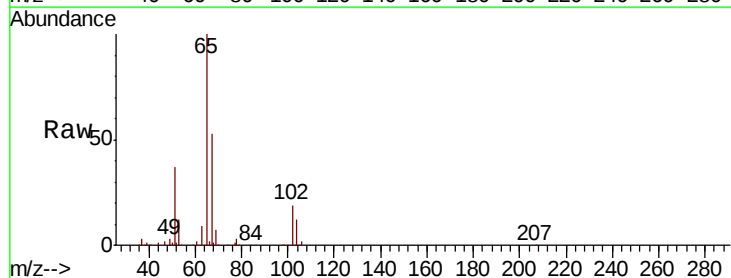


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

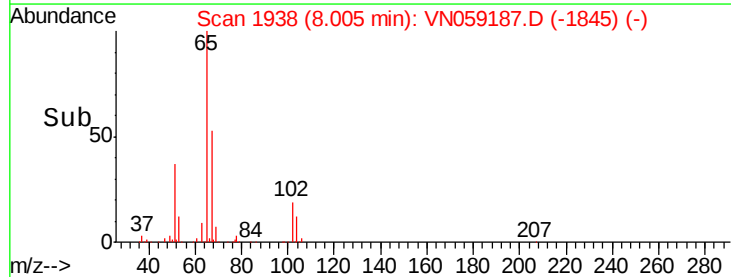
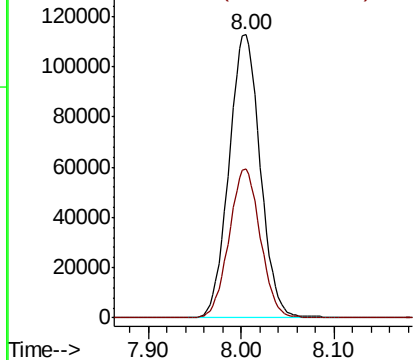


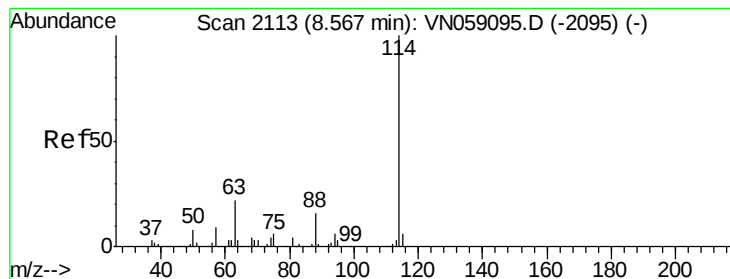
#33
1,2-Dichloroethane-d4
Concen: 53.317 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. -0.00 min
Lab File: VN059187.D
Acq: 12 Nov 2019 14:01

Tgt Ion: 65 Resp: 264087
Ion Ratio Lower Upper
65 100
67 52.7 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: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

AOC-7-NORTH-(10)ME

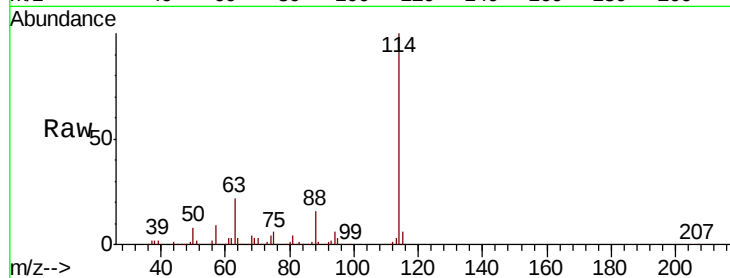
Tot Ion:114 Resp: 628632

Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.4

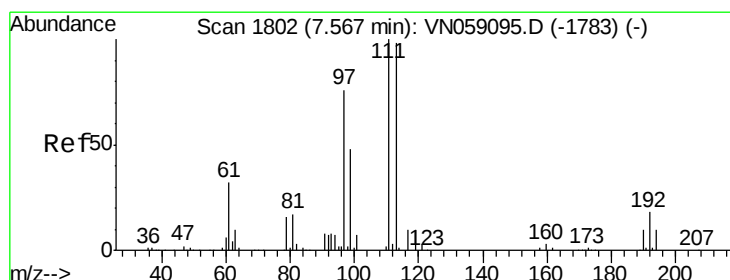
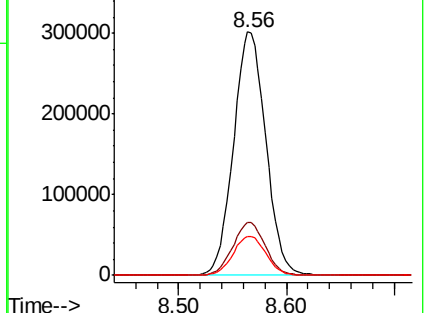
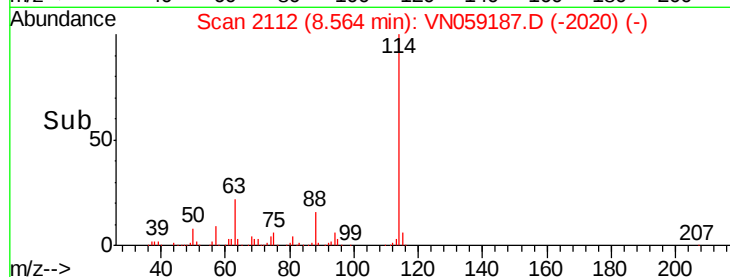
88 16.2 0.0 32.2



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: 52.630 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

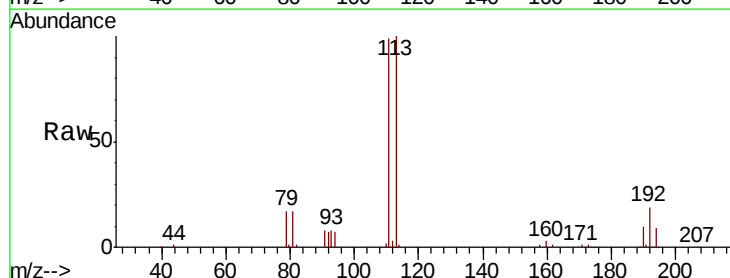
Tgt Ion:113 Resp: 197551

Ion Ratio Lower Upper

113 100

111 102.7 82.8 124.2

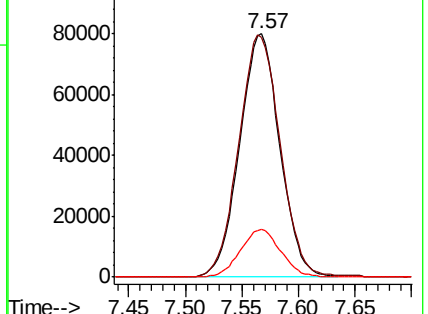
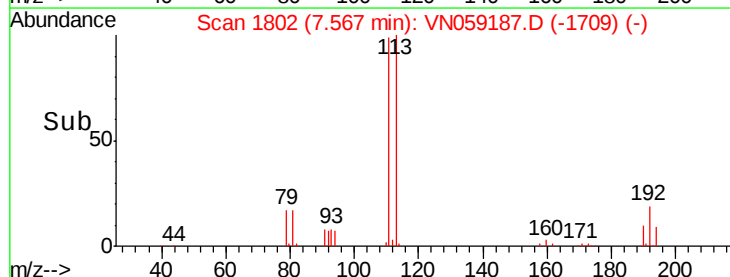
192 19.6 16.1 24.1

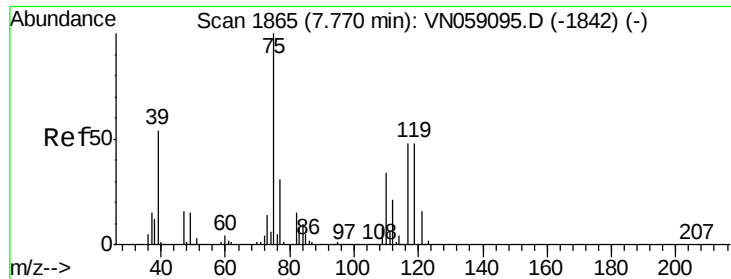


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

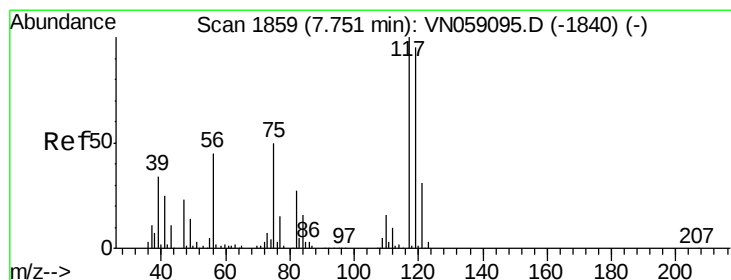
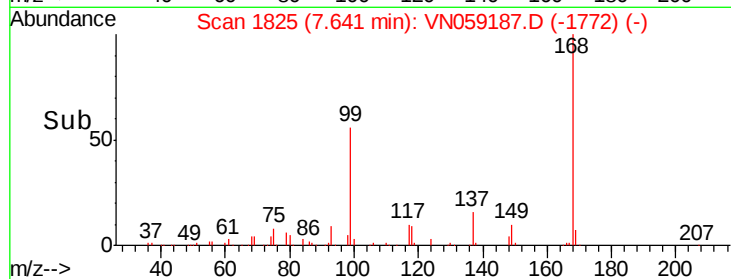
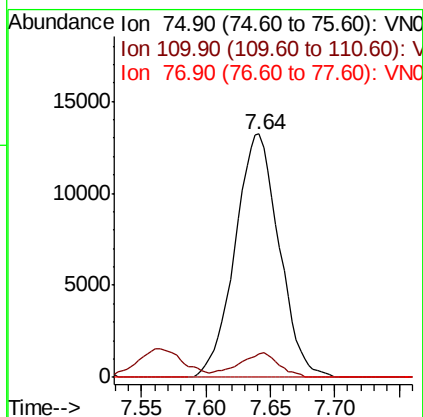
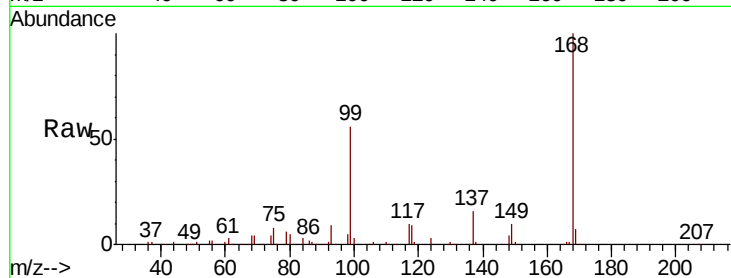




#36
 1,1-Dichloropropene
 Concen: 5.349 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059187.D
 Acq: 12 Nov 2019 14:01

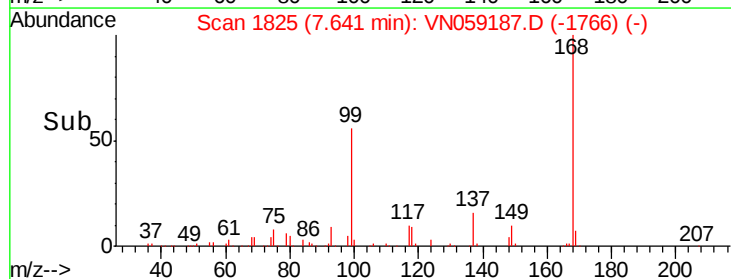
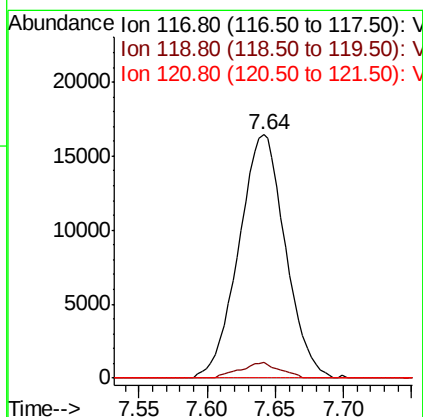
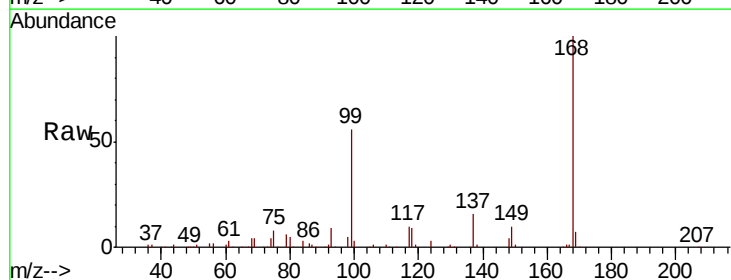
Instrument :
 MSVOA_N
 ClientSampleId :
 AOC-7-NORTH-(10)ME

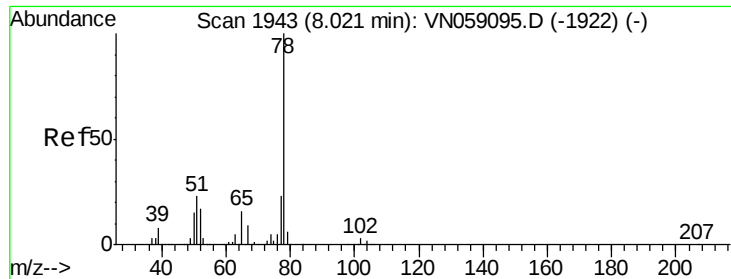
Tot Ion	75	Resp	31433
Ion Ratio	100	Lower	Upper
75	100		
110	9.4	17.1	51.2#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.657 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059187.D
 Acq: 12 Nov 2019 14:01

Tgt Ion	117	Resp	38933
Ion Ratio	100	Lower	Upper
117	100		
119	6.3	75.6	113.4#
121	0.0	24.6	36.8#





#40

Benzene

Concen: 0.637 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. -0.01 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

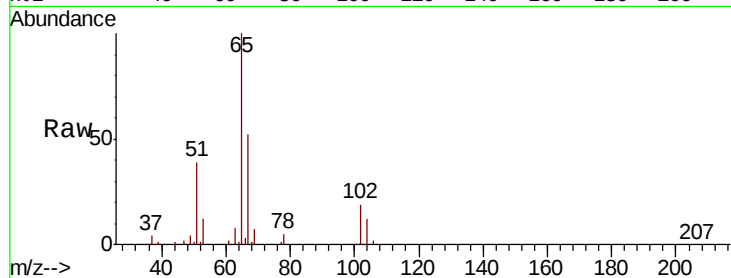
AOC-7-NORTH-(10)ME

Tot Ion: 78 Resp: 11269

Ion Ratio Lower Upper

78 100

77 22.1 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN059095.D (-1922) (-)

Ion 77.00 (76.70 to 77.70): VN059095.D (-1922) (-)

8.01

5000

4000

3000

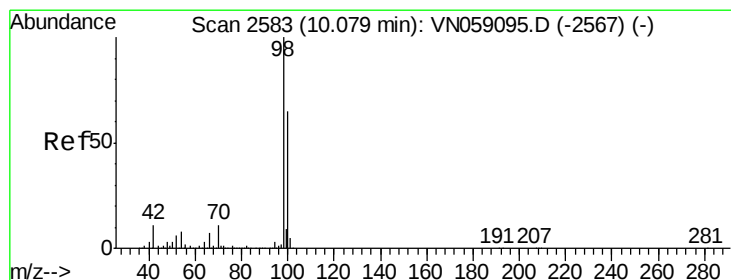
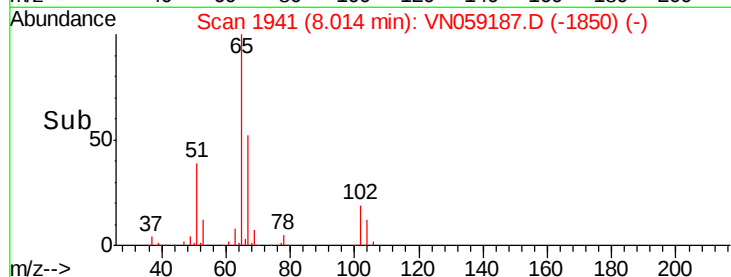
2000

1000

0

7.95 8.00 8.05 8.10

Time-->



#50

Toluene-d8

Concen: 51.935 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059187.D

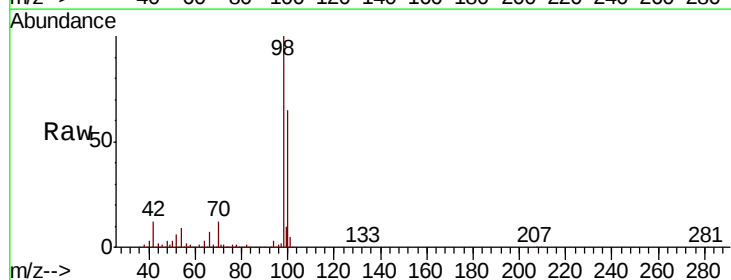
Acq: 12 Nov 2019 14:01

Tgt Ion: 98 Resp: 767846

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN059095.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN059095.D (-2567) (-)

10.08

500000

400000

300000

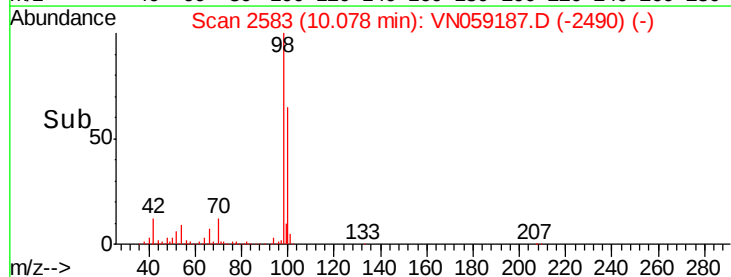
200000

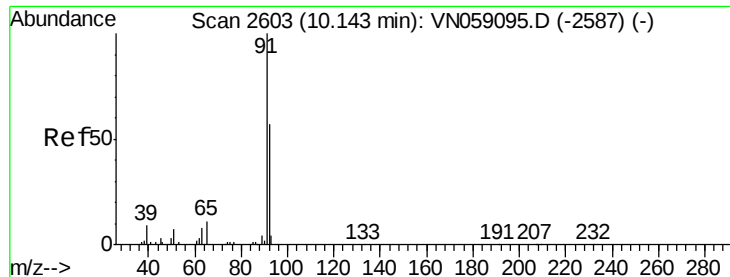
100000

0

10.00 10.10 10.20

Time-->





#52

Toluene

Concen: 0.991 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

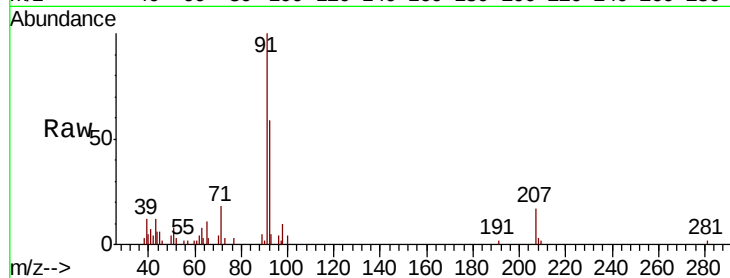
AOC-7-NORTH-(10)ME

Tot Ion: 92 Resp: 10514

Ion Ratio Lower Upper

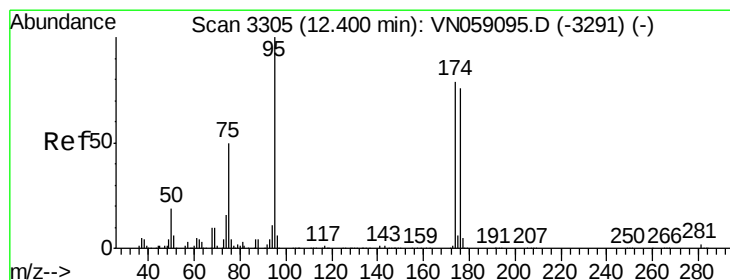
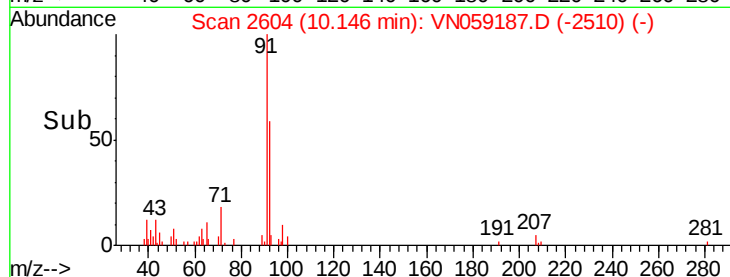
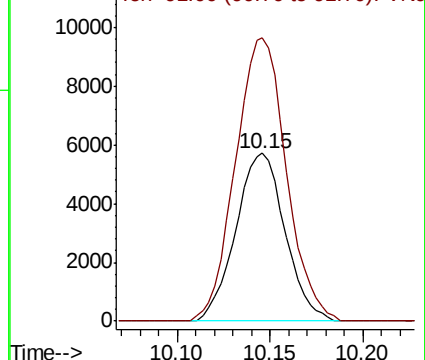
92 100

91 174.2 139.5 209.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#62

4-Bromofluorobenzene

Concen: 46.309 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

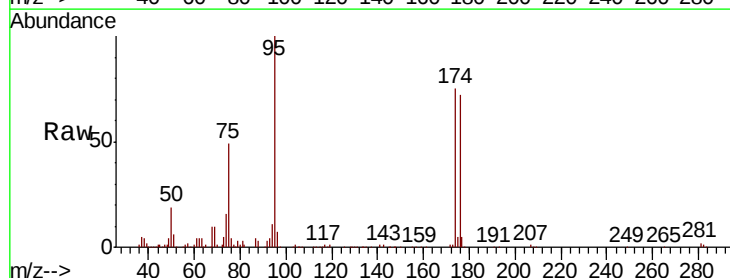
Tgt Ion: 95 Resp: 246868

Ion Ratio Lower Upper

95 100

174 78.0 0.0 158.2

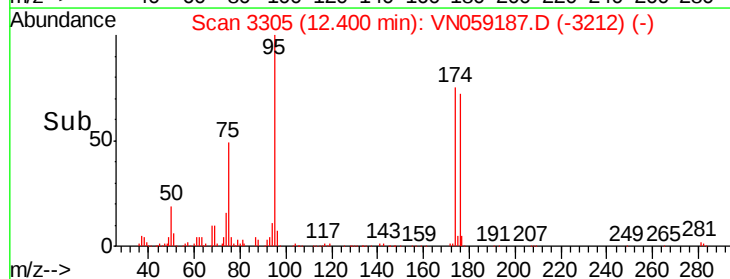
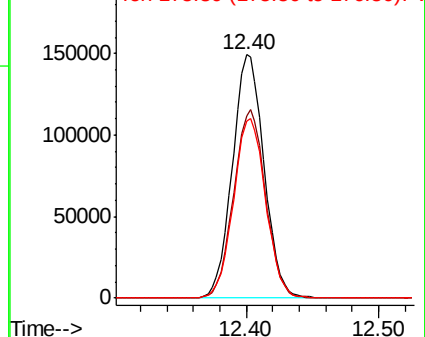
176 75.0 0.0 151.8

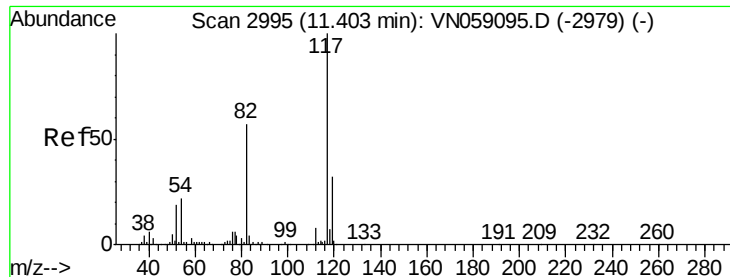


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

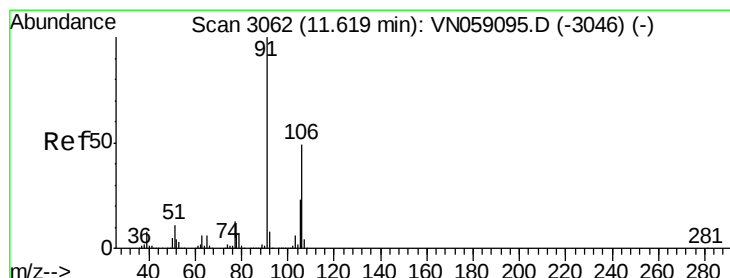
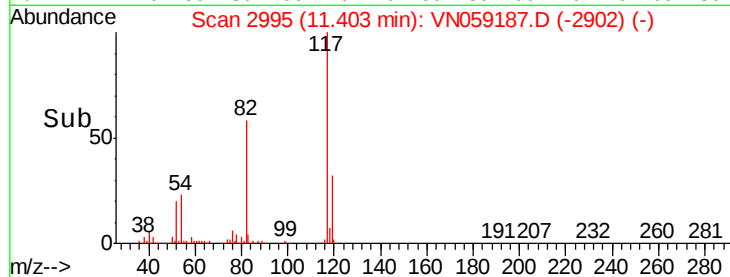
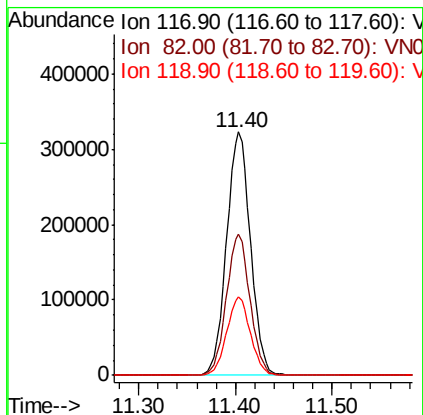
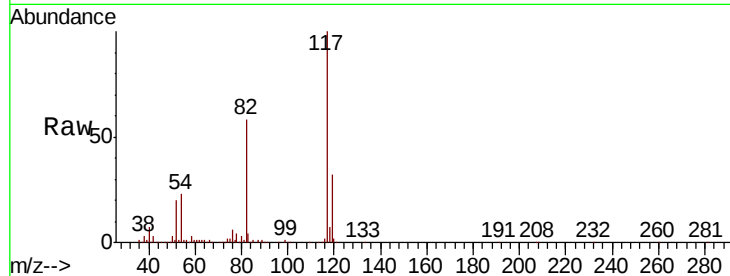




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059187.D
Acq: 12 Nov 2019 14:01

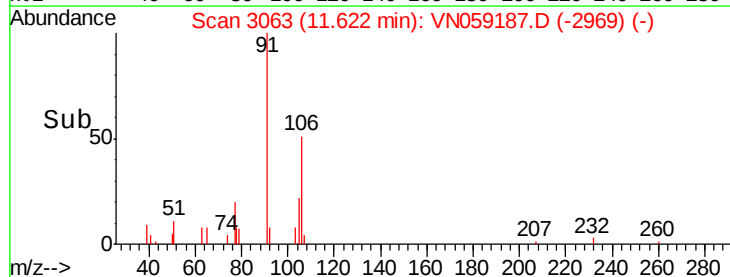
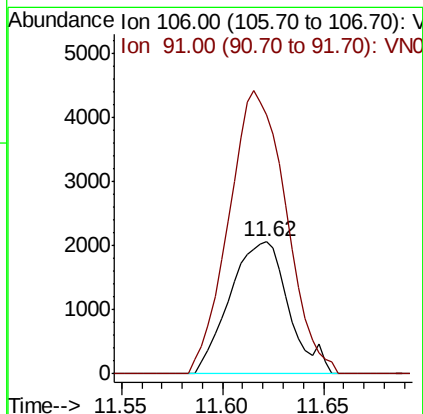
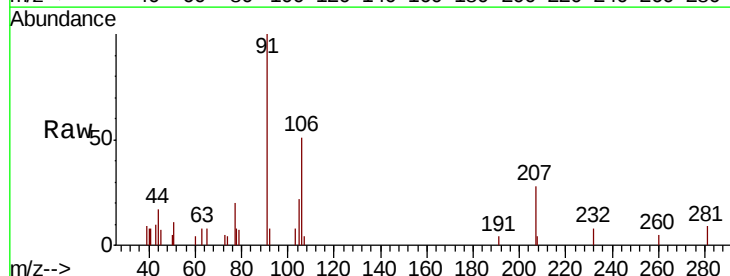
Instrument :
MSVOA_N
ClientSampleId :
AOC-7-NORTH-(10)ME

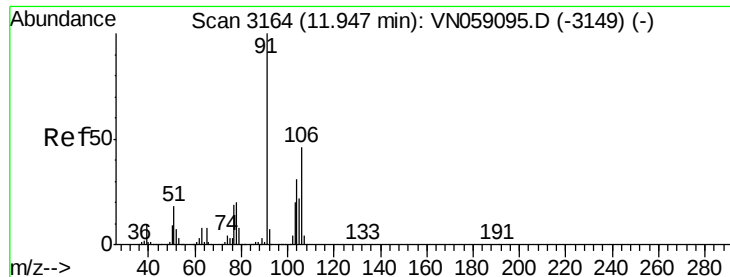
Tot Ion:117 Resp: 553414
Ion Ratio Lower Upper
117 100
82 58.1 45.8 68.8
119 32.0 25.8 38.6



#68
m/p-Xylenes
Concen: 0.583 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN059187.D
Acq: 12 Nov 2019 14:01

Tgt Ion:106 Resp: 4179
Ion Ratio Lower Upper
106 100
91 209.9 164.7 247.1

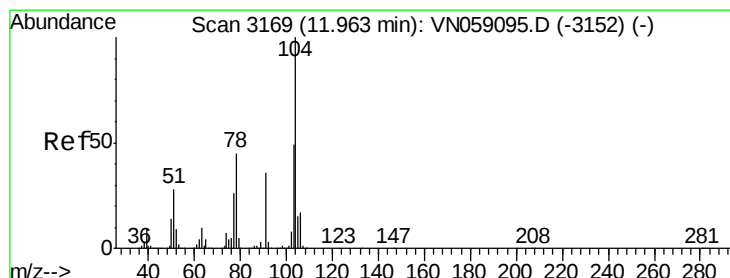
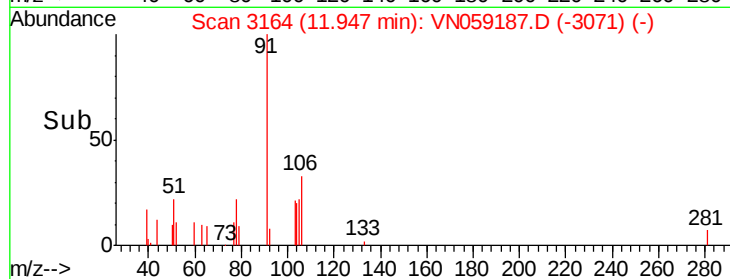
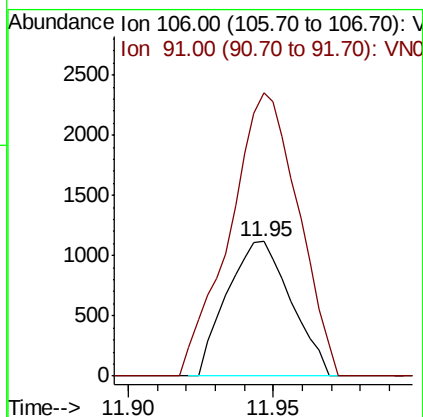
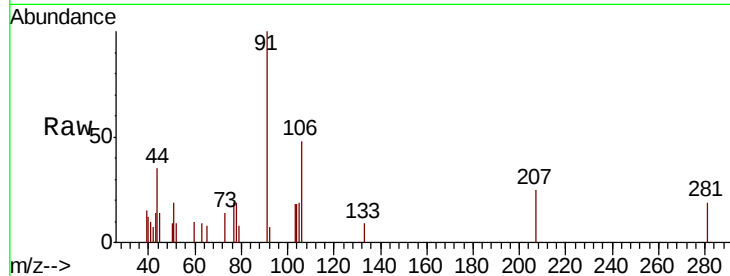




#69
o-Xylene
Concen: 0.247 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059187.D
Acq: 12 Nov 2019 14:01

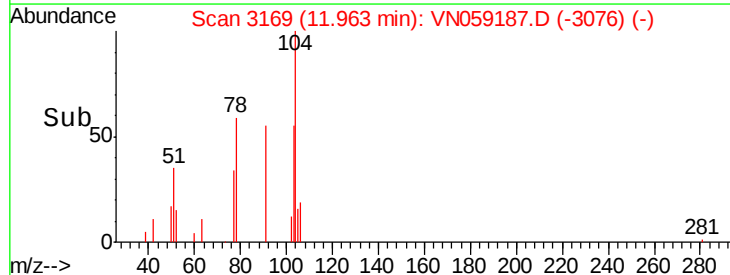
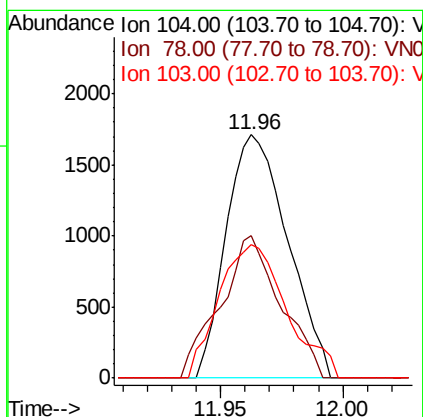
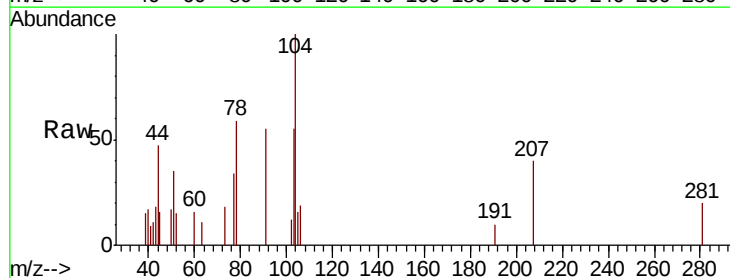
Instrument :
MSVOA_N
ClientSampleId :
AOC-7-NORTH-(10)ME

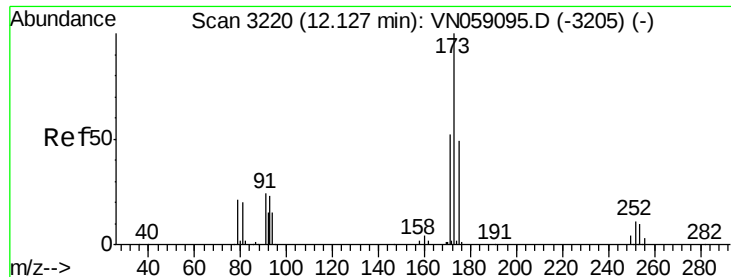
Tot Ion:106 Resp: 1714
Ion Ratio Lower Upper
106 100
91 225.1 110.1 330.3



#70
Styrene
Concen: 0.276 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN059187.D
Acq: 12 Nov 2019 14:01

Tgt Ion:104 Resp: 3005
Ion Ratio Lower Upper
104 100
78 57.4 41.2 61.8
103 60.4 43.8 65.6





#71

Bromoform

Concen: 0.430 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

AOC-7-NORTH-(10)ME

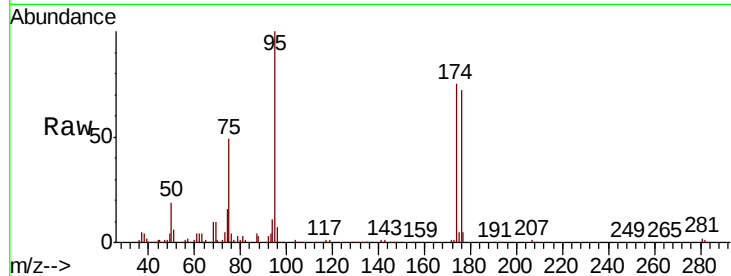
Tot Ion:173 Resp: 1353

Ion Ratio Lower Upper

173 100

175 875.3 24.2 72.6#

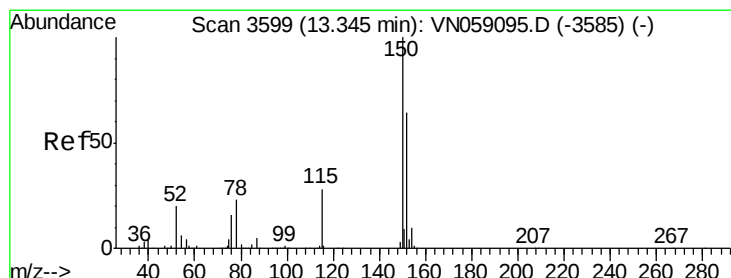
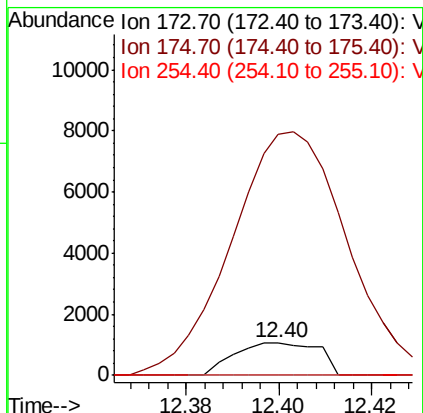
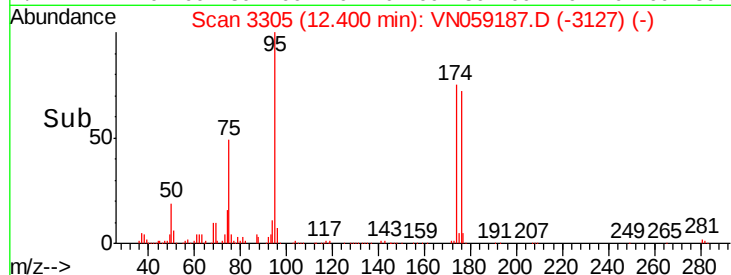
254 0.0 0.1 0.1#



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: VN059187.D

Acq: 12 Nov 2019 14:01

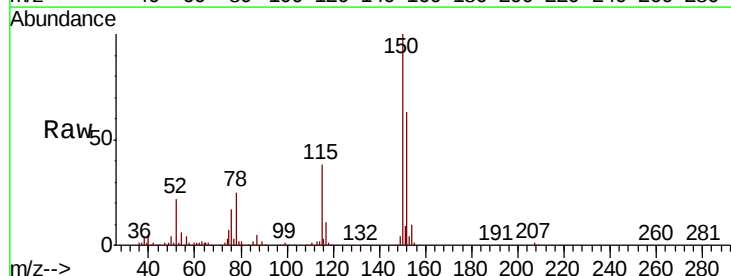
Tgt Ion:152 Resp: 219460

Ion Ratio Lower Upper

152 100

115 60.2 29.4 88.2

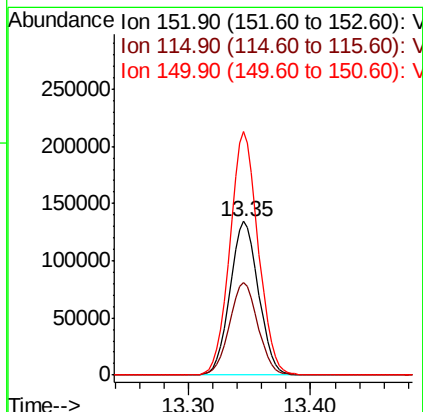
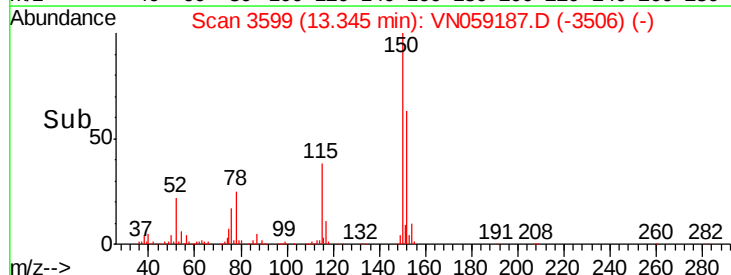
150 156.8 0.0 345.8

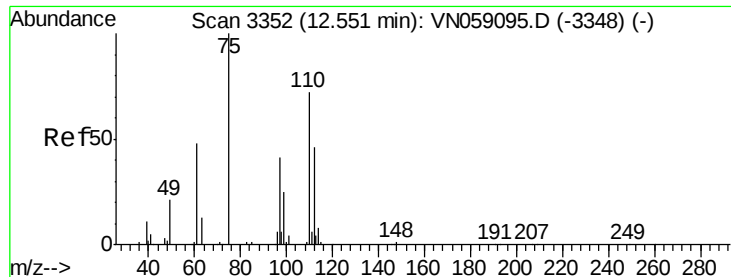


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.717 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

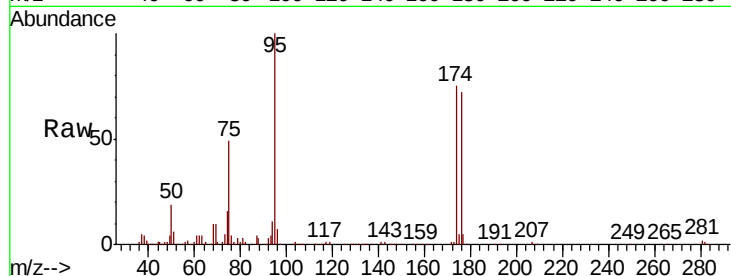
AOC-7-NORTH-(10)ME

Tot Ion: 75 Resp: 123493

Ion Ratio Lower Upper

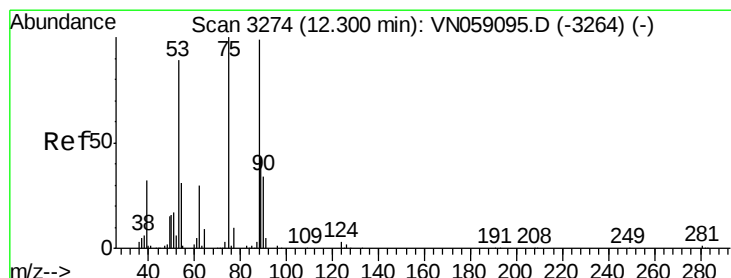
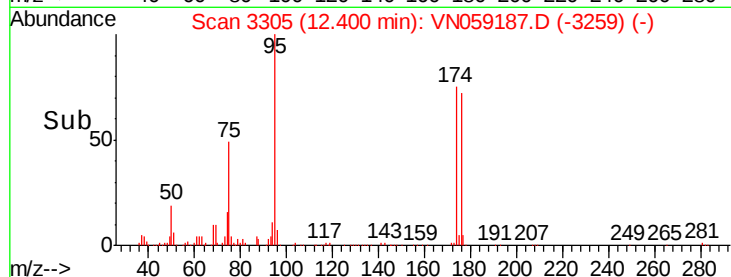
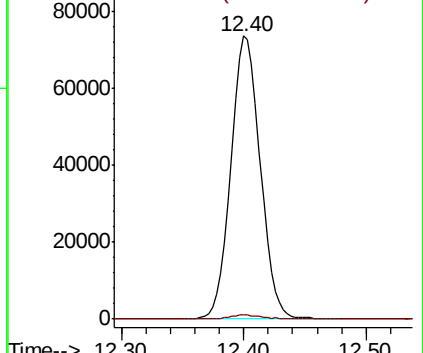
75 100

77 1.6 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: 65.283 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

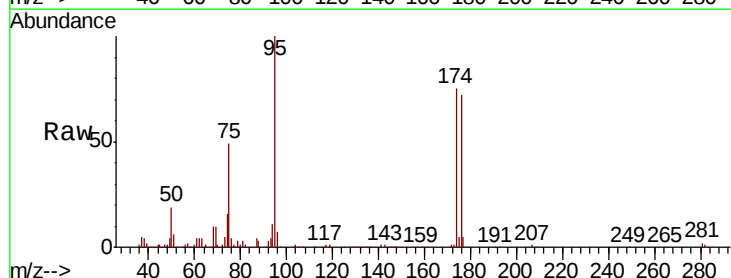
Tgt Ion: 75 Resp: 123493

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

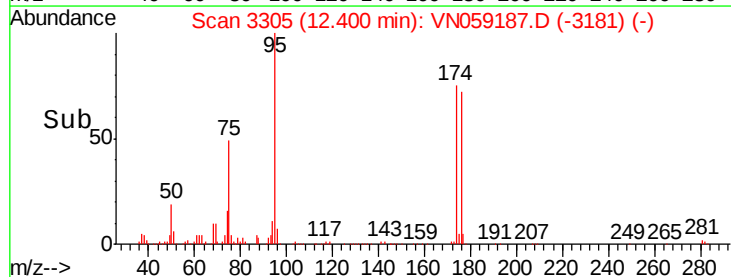
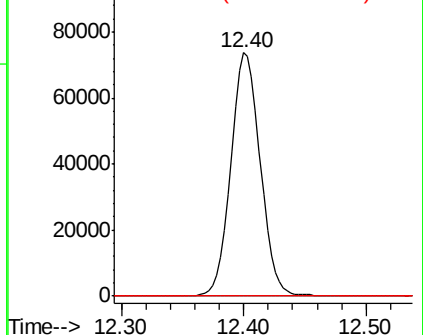
89 0.0 35.8 53.8#

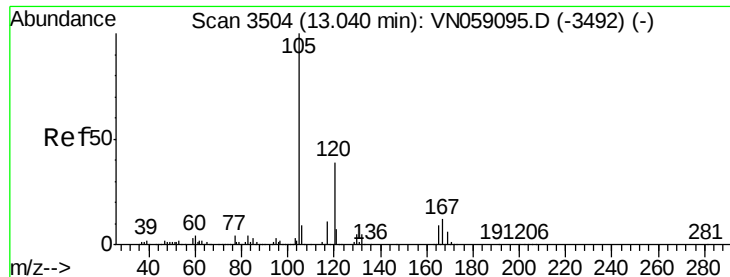


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#84

1,2,4-Trimethylbenzene

Concen: 0.335 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

Instrument:

MSVOA_N

ClientSampleId:

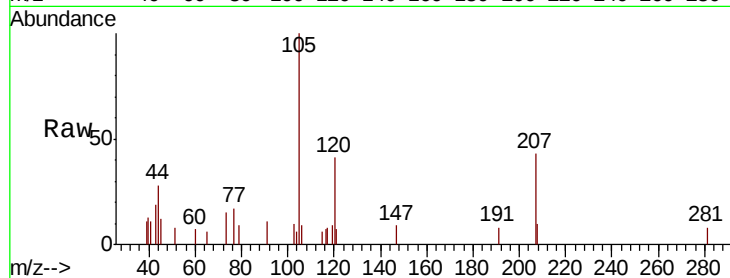
AOC-7-NORTH-(10)ME

Tot Ion:105 Resp: 4383

Ion Ratio Lower Upper

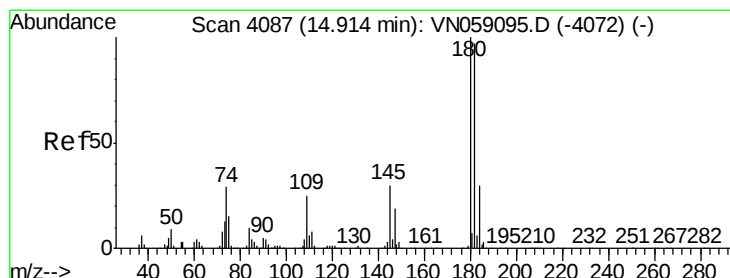
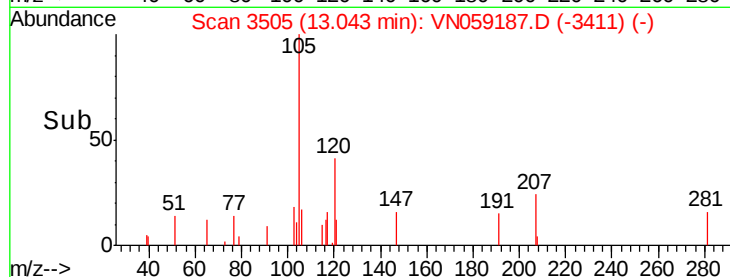
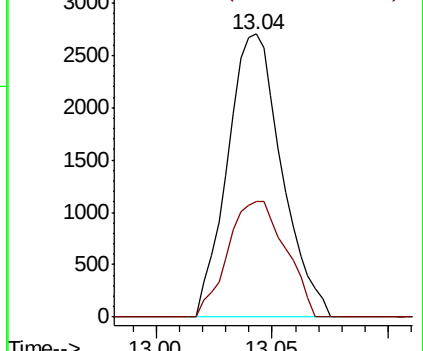
105 100

120 43.5 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#93

1,2,4-Trichlorobenzene

Concen: 3.307 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.00 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

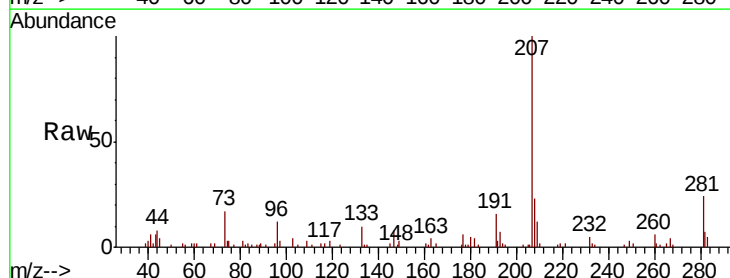
Tgt Ion:180 Resp: 1138

Ion Ratio Lower Upper

180 100

182 82.9 48.1 144.3

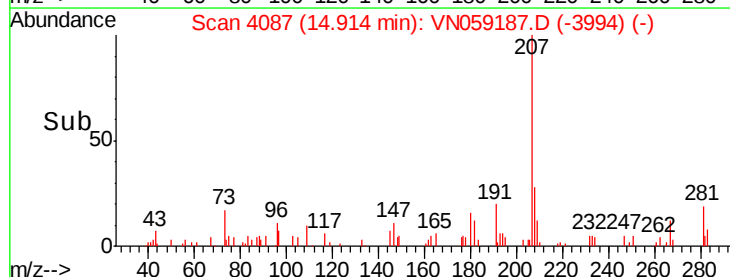
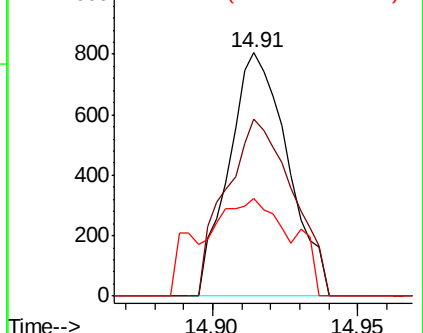
145 51.1 15.1 45.3#

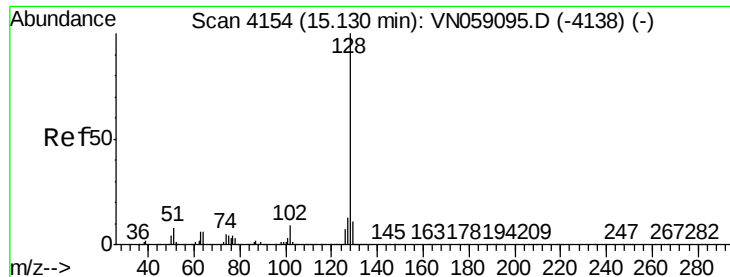


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 22.418 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

AOC-7-NORTH-(10)ME

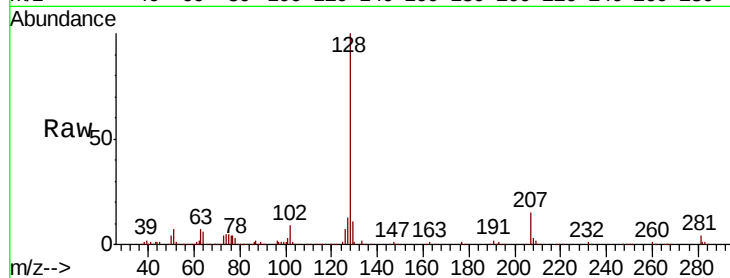
Tot Ion:128 Resp: 234600

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.2

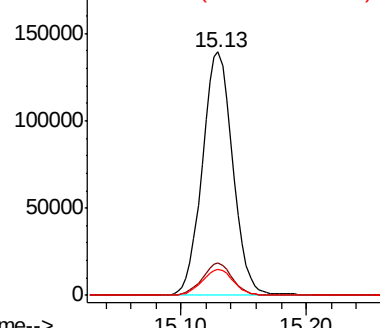
129 11.0 8.6 12.8



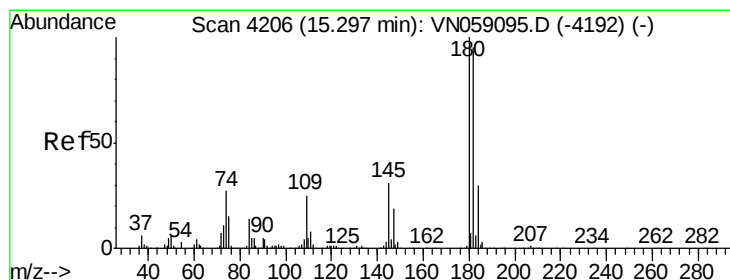
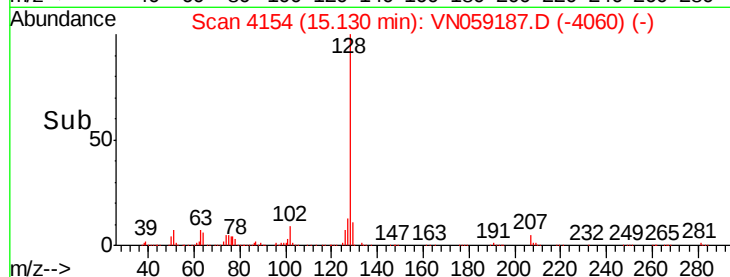
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 0.434 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN059187.D

Acq: 12 Nov 2019 14:01

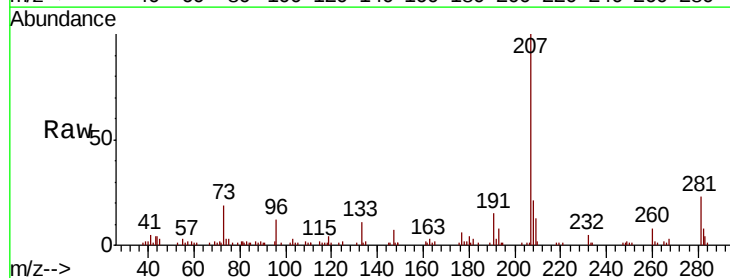
Tgt Ion:180 Resp: 1644

Ion Ratio Lower Upper

180 100

182 76.3 47.3 141.8

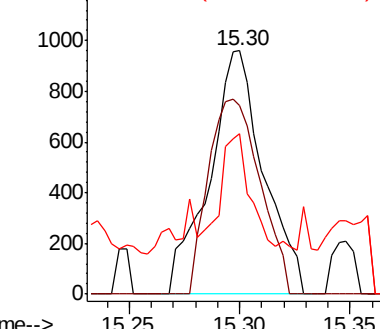
145 49.9 15.8 47.3#



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



Time-->

