

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090220\
 Data File : VN063196.D
 Acq On : 2 Sep 2020 15:29
 Operator : JC/MD
 Sample : L3890-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-200901

Quant Time: Sep 03 01:01:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 01 04:21:28 2020
 Response via : Initial Calibration

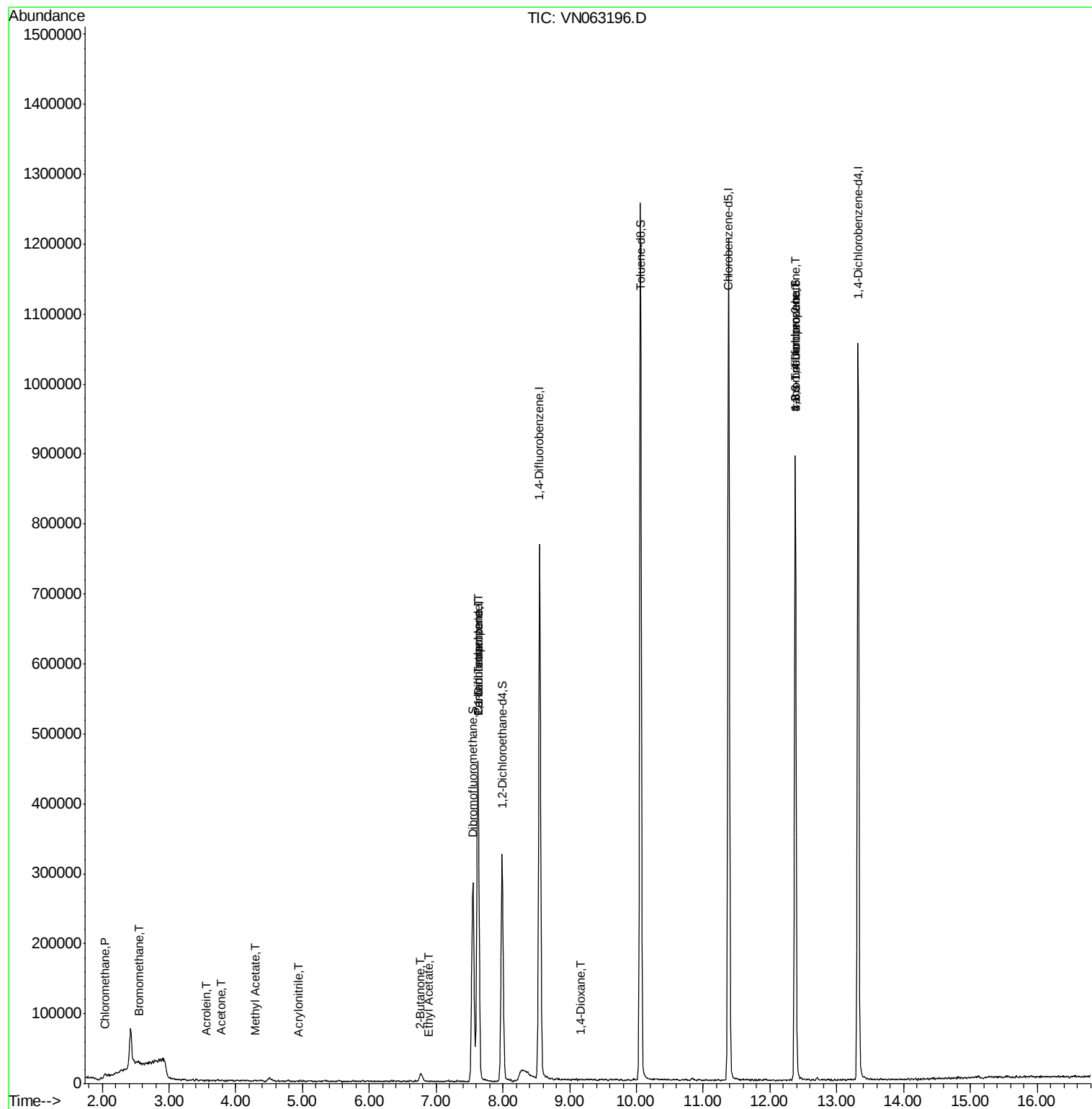
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	338639	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	659948	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	652650	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	257950	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	266531	48.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.30%	
35) Dibromofluoromethane	7.55	113	216001	51.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.04%	
50) Toluene-d8	10.06	98	838068	51.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.86%	
62) 4-Bromofluorobenzene	12.38	95	293287	51.45	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.90%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.03	50	2215	0.456	ug/l	97
5) Bromomethane	2.55	94	1965	0.435	ug/l #	78
7) Trichlorofluoromethane	2.97	101	29	Below Cal	#	33
13) Acrolein	3.57	56	189	16.454	ug/l	90
15) Acrylonitrile	4.93	53	104	2.458	ug/l #	16
16) Acetone	3.78	43	824	0.524	ug/l #	58
18) Methyl Acetate	4.30	43	871	0.216	ug/l #	87
25) 2-Butanone	6.76	43	730	0.300	ug/l #	50
31) Cyclohexane	7.62	56	9832	Below Cal	#	24
36) 1,1-Dichloropropene	7.63	75	32664	5.148	ug/l #	49
37) Ethyl Acetate	6.88	43	217	0.416	ug/l #	15
38) Carbon Tetrachloride	7.63	117	37844	5.882	ug/l #	16
49) 1,4-Dioxane	9.16	88	164	2.273	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	170472	33.636	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	170472	81.297	ug/l #	10

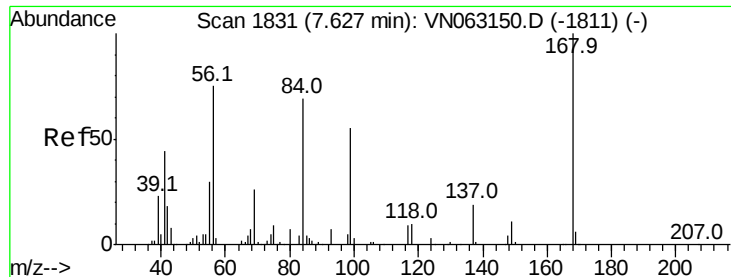
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063196.D

Acq: 2 Sep 2020 15:29

Instrument :

MSVOA_N

ClientSampleId :

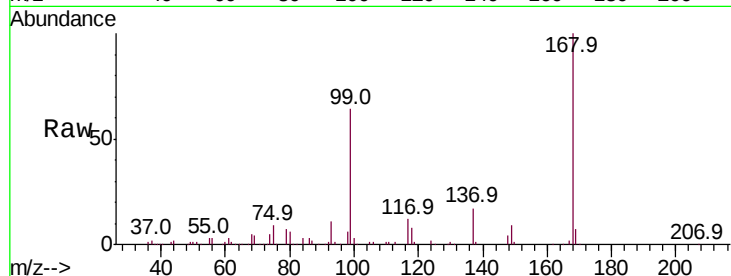
TB-01-200901

Tot Ion:168 Resp: 338639

Ion Ratio Lower Upper

168 100

99 63.6 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

150000

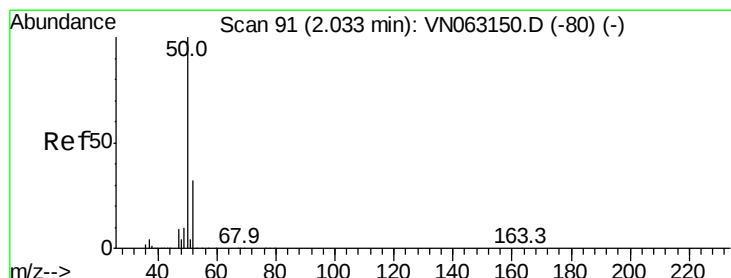
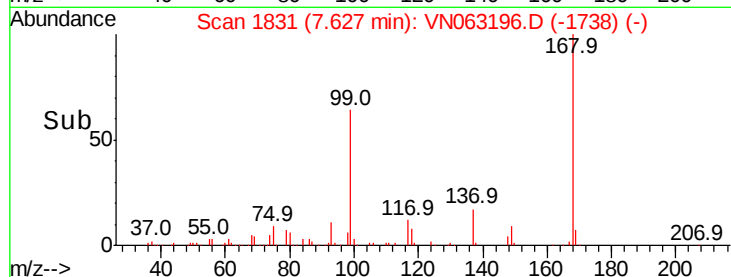
100000

50000

0

7.50 7.55 7.60 7.65 7.70

Time-->



#3

Chloromethane

Concen: 0.456 ug/l

RT: 2.03 min Scan# 90

Delta R.T. -0.00 min

Lab File: VN063196.D

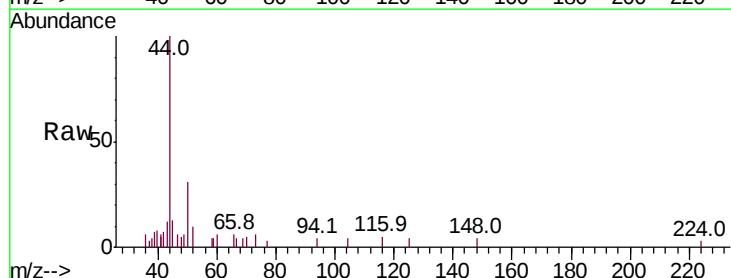
Acq: 2 Sep 2020 15:29

Tgt Ion: 50 Resp: 2215

Ion Ratio Lower Upper

50 100

52 33.6 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

1500

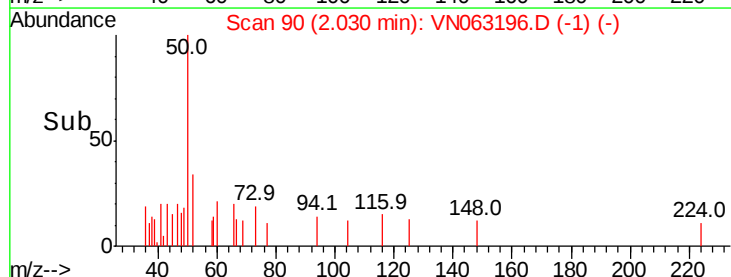
1000

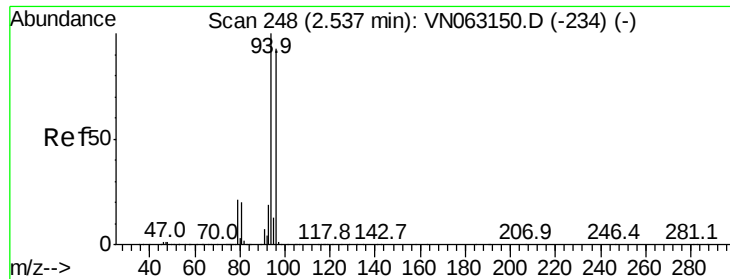
500

0

2.00 2.05

Time-->





#5

Bromomethane

Concen: 0.435 ug/l

RT: 2.55 min Scan# 253

Delta R.T. 0.02 min

Lab File: VN063196.D

Acq: 2 Sep 2020 15:29

Instrument :

MSVOA_N

ClientSampleId :

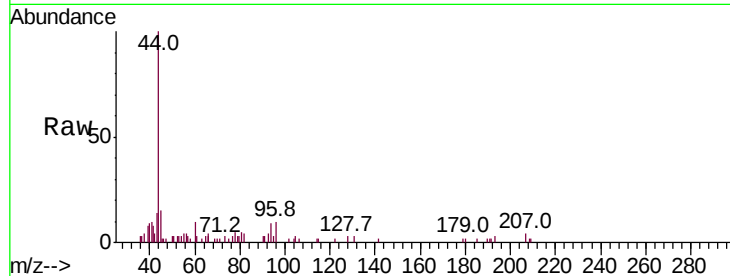
TB-01-200901

Tot Ion: 94 Resp: 1965

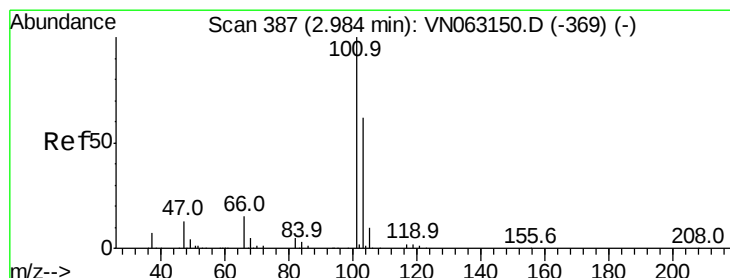
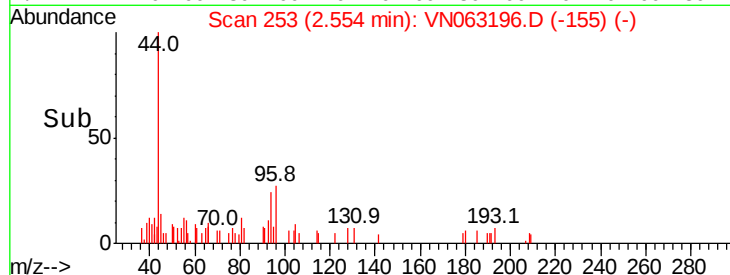
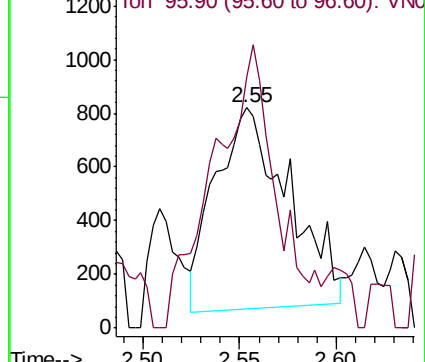
Ion Ratio Lower Upper

94 100

96 113.7 74.4 111.6#



Abundance Ion 93.90 (93.60 to 94.60): VN063150.D (-234) (-)



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.97 min Scan# 384

Delta R.T. -0.01 min

Lab File: VN063196.D

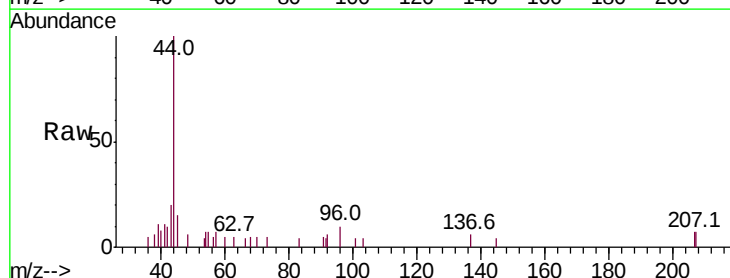
Acq: 2 Sep 2020 15:29

Tgt Ion: 101 Resp: 29

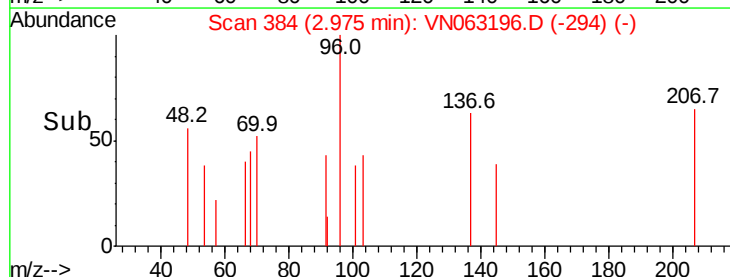
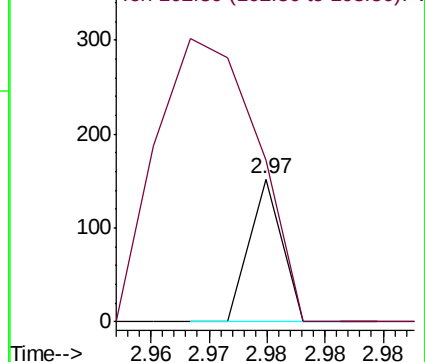
Ion Ratio Lower Upper

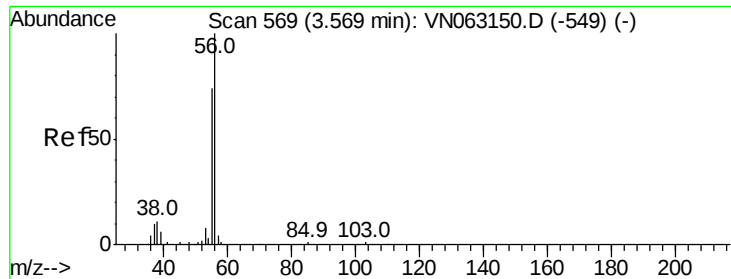
101 100

103 113.8 49.7 74.5#



Abundance Ion 100.90 (100.60 to 101.60): VN063150.D (-369) (-)





#13

Acrolein

Concen: 16.454 ug/l

RT: 3.57 min Scan# 569

Delta R.T. 0.00 min

Lab File: VN063196.D

Acq: 2 Sep 2020 15:29

Instrument :

MSVOA_N

ClientSampleId :

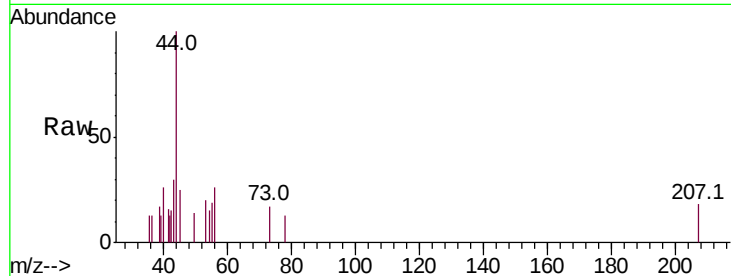
TB-01-200901

Tot Ion: 56 Resp: 189

Ion Ratio Lower Upper

56 100

55 77.2 55.4 83.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.57

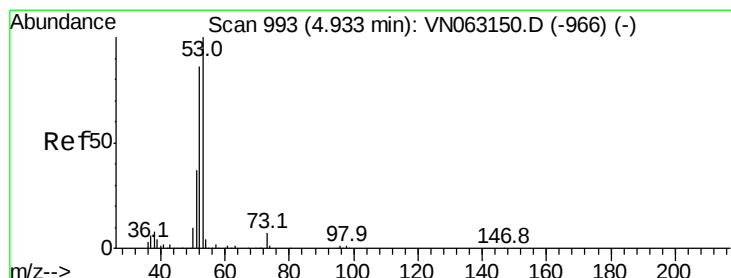
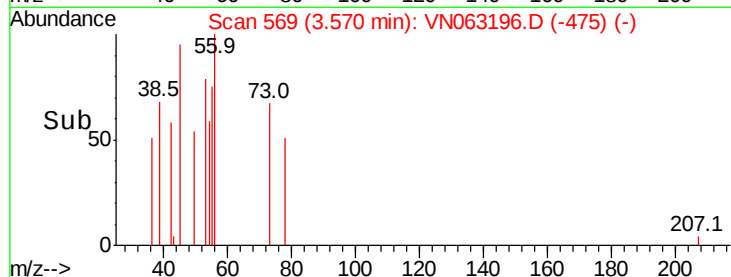
300

200

100

0

Time--> 3.55 3.56 3.57 3.58 3.59



#15

Acrylonitrile

Concen: 2.458 ug/l

RT: 4.93 min Scan# 993

Delta R.T. 0.00 min

Lab File: VN063196.D

Acq: 2 Sep 2020 15:29

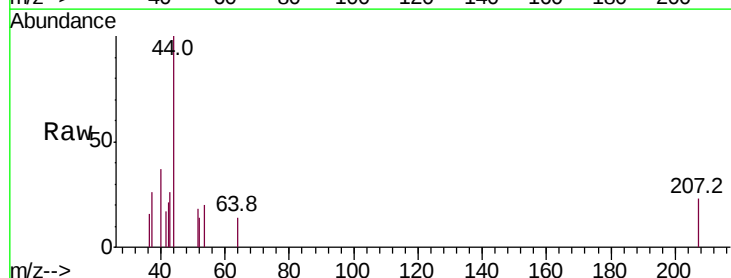
Tgt Ion: 53 Resp: 104

Ion Ratio Lower Upper

53 100

52 168.3 67.2 100.8#

51 0.0 30.2 45.4#



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

400

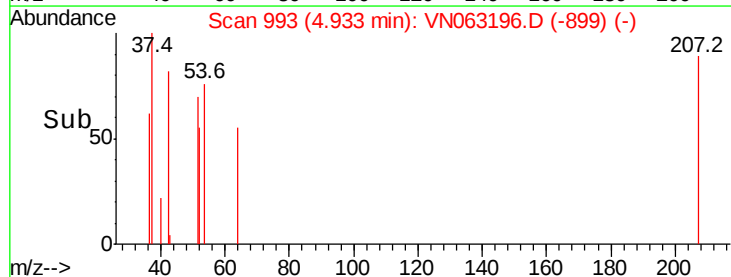
300

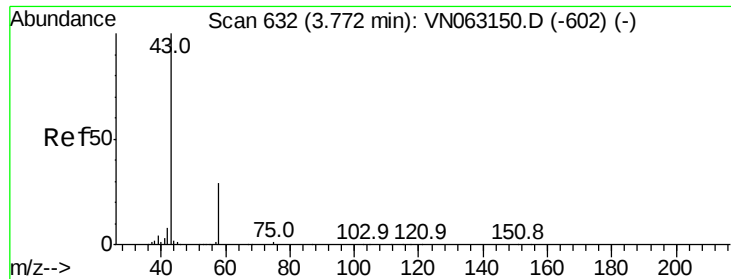
200

100

0

Time--> 4.92 4.93 4.94

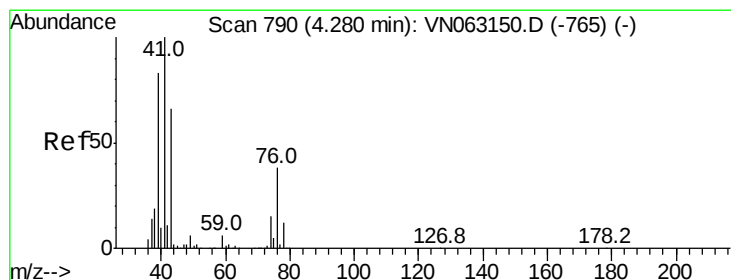
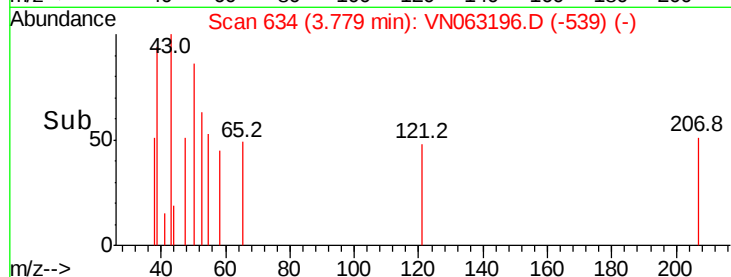
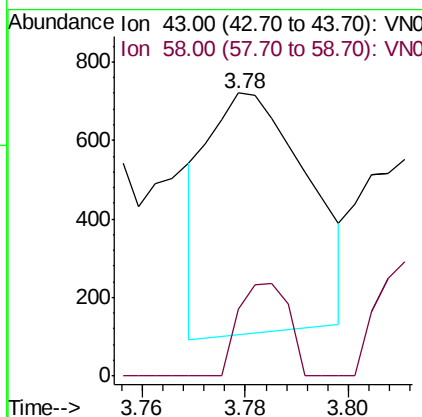
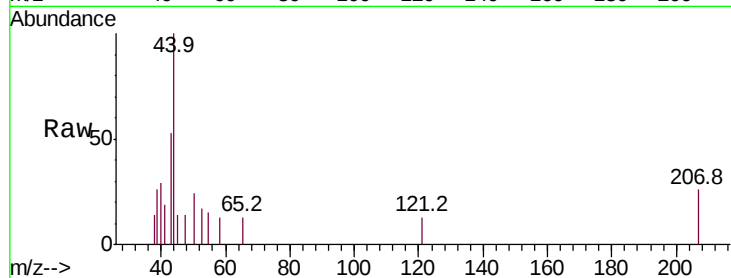




#16
Acetone
Concen: 0.524 ug/l
RT: 3.78 min Scan# 634
Delta R.T. 0.01 min
Lab File: VN063196.D
Acq: 2 Sep 2020 15:29

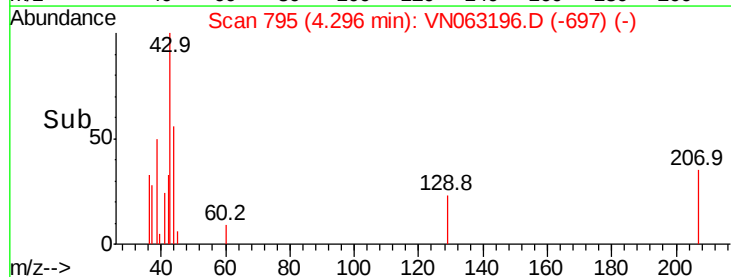
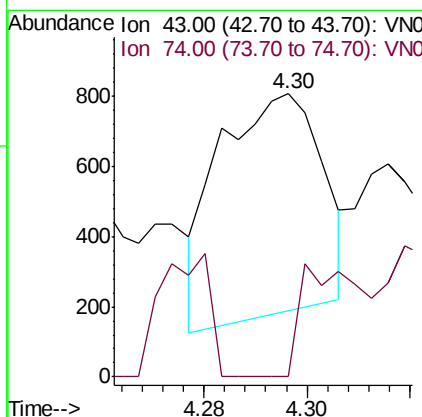
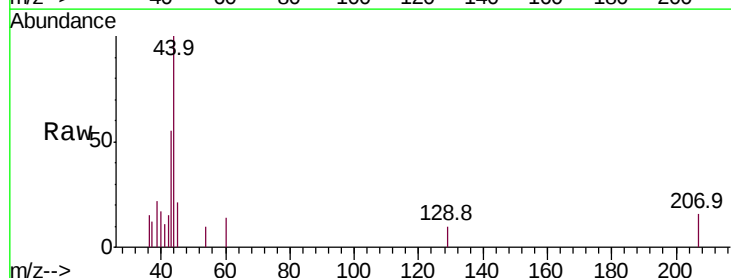
Instrument :
MSVOA_N
ClientSampleId :
TB-01-200901

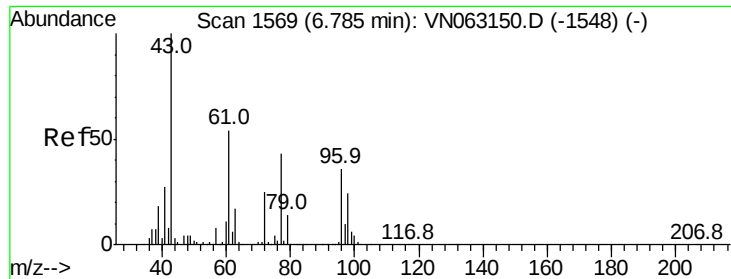
Tot Ion: 43 Resp: 824
Ion Ratio Lower Upper
43 100
58 51.1 23.1 34.7#



#18
Methyl Acetate
Concen: 0.216 ug/l
RT: 4.30 min Scan# 795
Delta R.T. 0.02 min
Lab File: VN063196.D
Acq: 2 Sep 2020 15:29

Tgt Ion: 43 Resp: 871
Ion Ratio Lower Upper
43 100
74 30.3 19.0 28.6#

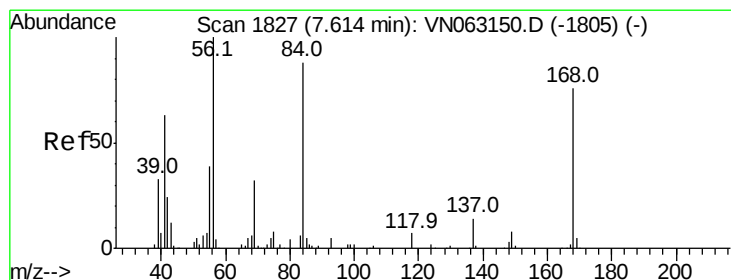
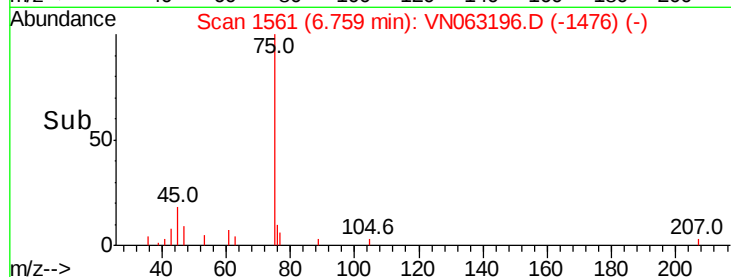
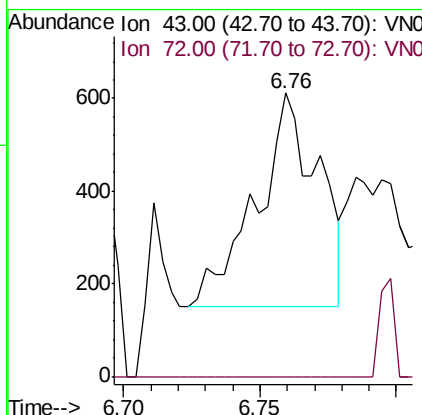
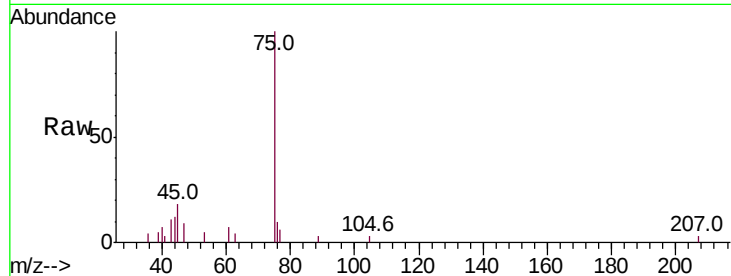




#25
2-Butanone
Concen: 0.300 ug/l
RT: 6.76 min Scan# 1561
Delta R.T. -0.03 min
Lab File: VN063196.D
Acq: 2 Sep 2020 15:29

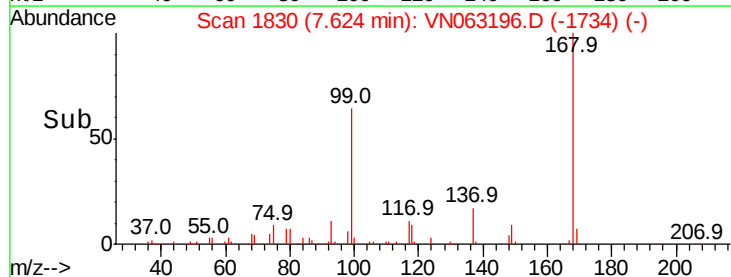
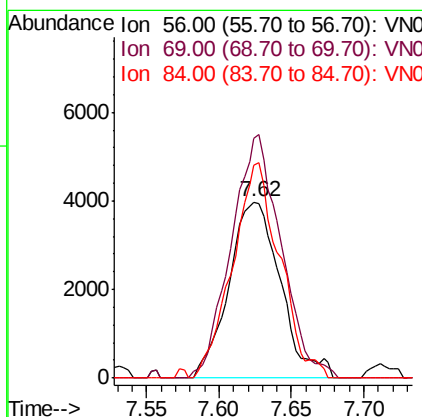
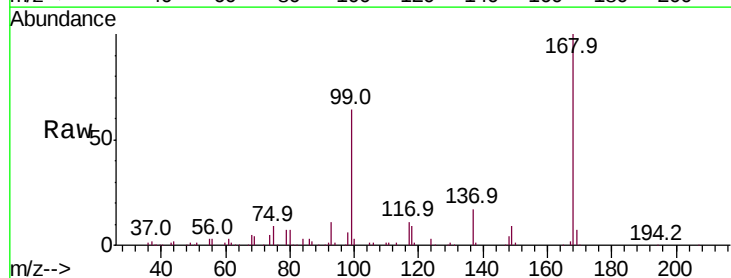
Instrument :
MSVOA_N
ClientSampled :
TB-01-200901

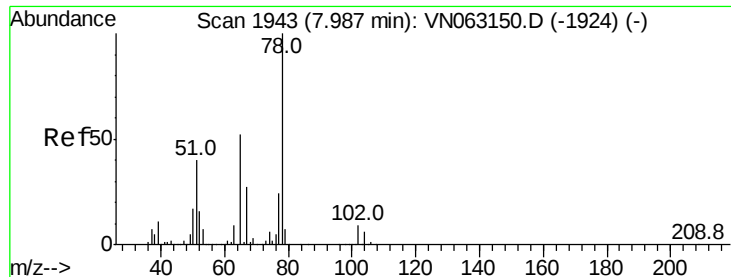
Tot Ion: 43 Resp: 730
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.4#



#31
Cyclohexane
Concen: Below Cal
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063196.D
Acq: 2 Sep 2020 15:29

Tgt Ion: 56 Resp: 9832
Ion Ratio Lower Upper
56 100
69 136.5 25.4 38.0#
84 121.0 70.2 105.4#





#33

1,2-Dichloroethane-d4

Concen: 48.147 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063196.D

Acq: 2 Sep 2020 15:29

Instrument :

MSVOA_N

ClientSampleId :

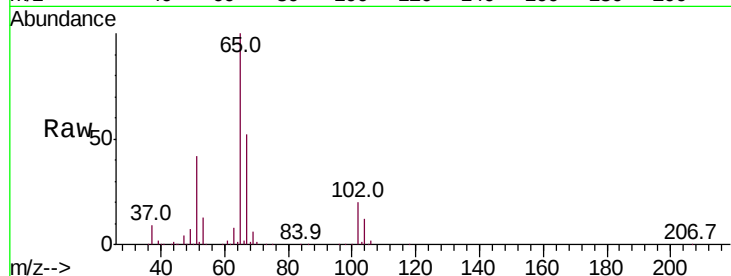
TB-01-200901

Tot Ion: 65 Resp: 266531

Ion Ratio Lower Upper

65 100

67 51.1 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VN063150.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063150.D (-1924) (-)

7.99

120000

100000

80000

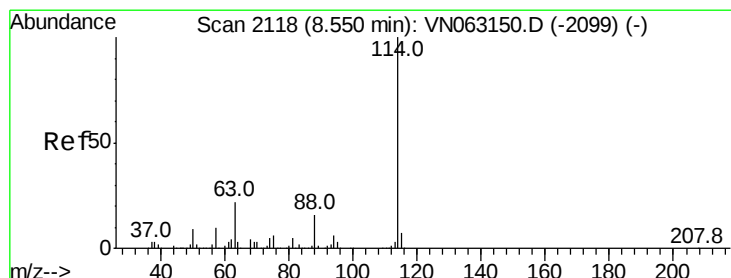
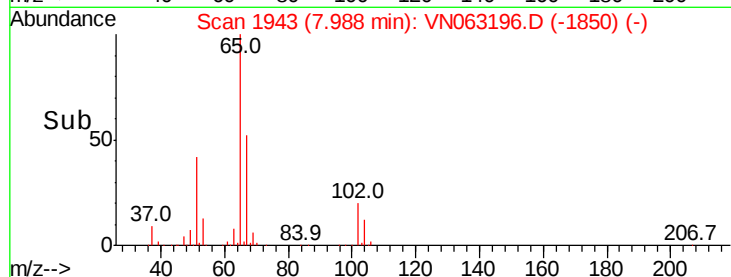
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063196.D

Acq: 2 Sep 2020 15:29

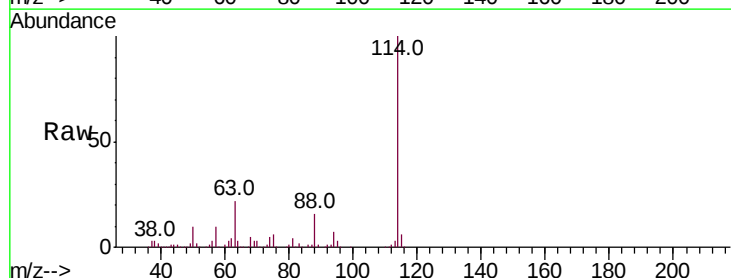
Tgt Ion: 114 Resp: 659948

Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.0

88 15.9 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): VN063150.D (-2099) (-)

Ion 63.00 (62.70 to 63.70): VN063150.D (-2099) (-)

Ion 87.90 (87.60 to 88.60): VN063150.D (-2099) (-)

8.55

400000

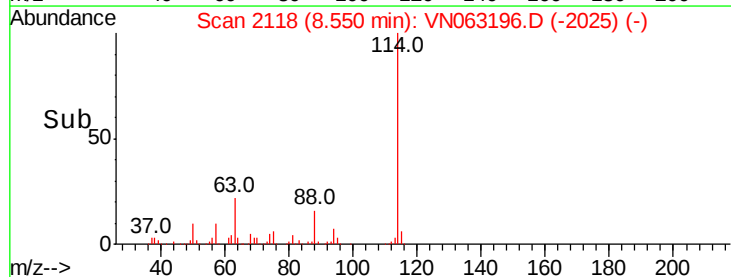
300000

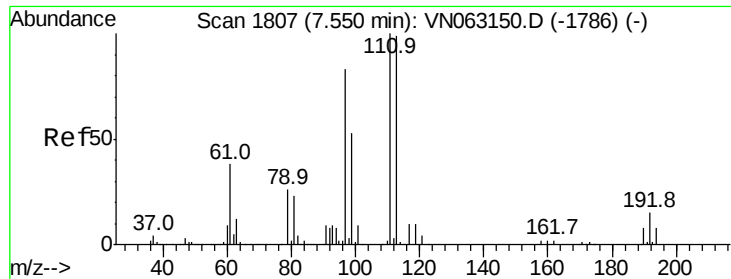
200000

100000

0

Time-->

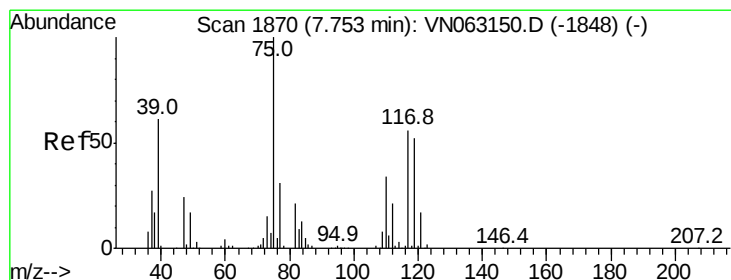
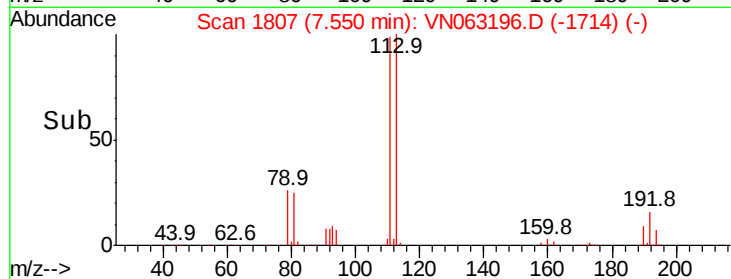
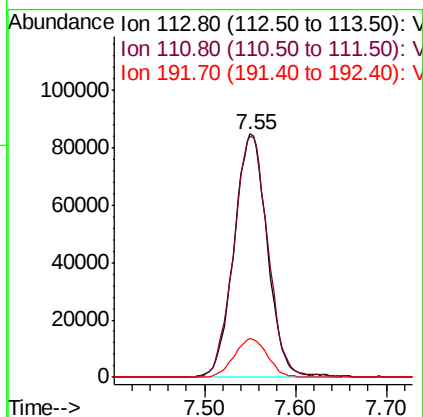
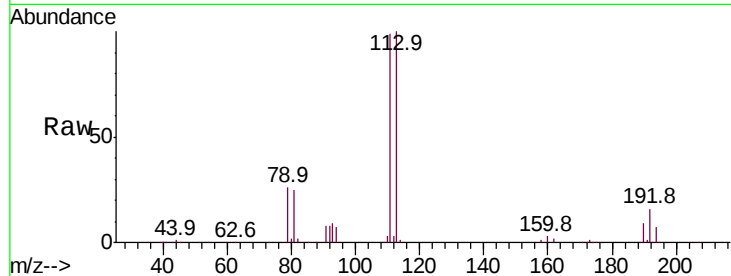




#35
 Dibromofluoromethane
 Concen: 51.017 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063196.D
 Acq: 2 Sep 2020 15:29

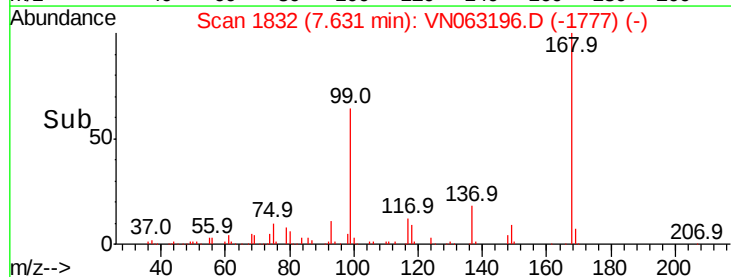
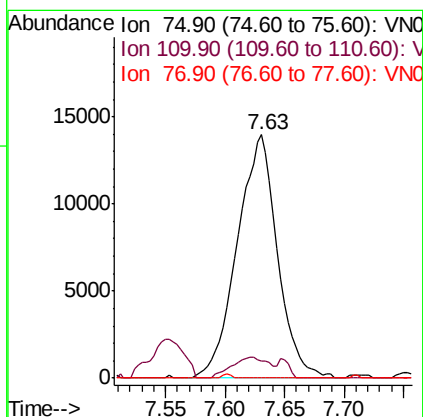
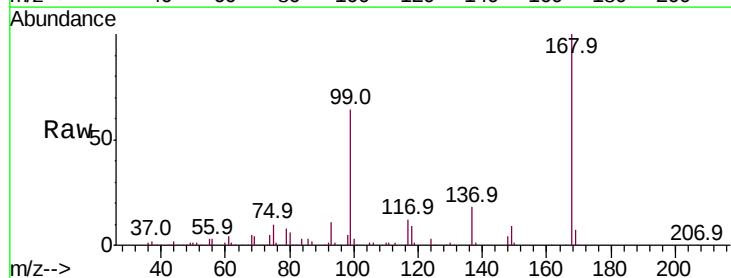
Instrument :
 MSVOA_N
 ClientSampled :
 TB-01-200901

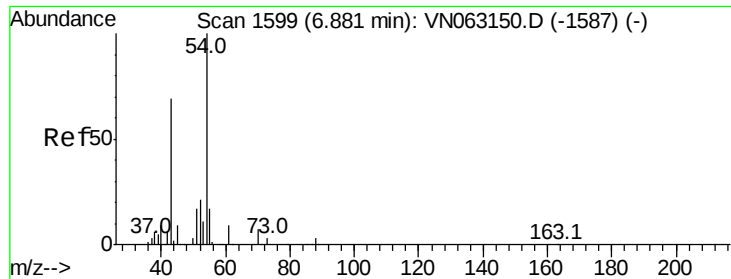
Tot Ion:113 Resp: 216001
 Ion Ratio Lower Upper
 113 100
 111 100.9 80.7 121.1
 192 15.9 12.6 19.0



#36
 1,1-Dichloropropene
 Concen: 5.148 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.12 min
 Lab File: VN063196.D
 Acq: 2 Sep 2020 15:29

Tgt Ion: 75 Resp: 32664
 Ion Ratio Lower Upper
 75 100
 110 8.0 16.6 49.8#
 77 0.0 25.4 38.2#





#37

Ethyl Acetate

Concen: 0.416 ug/l

RT: 6.88 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VN063196.D

Acq: 2 Sep 2020 15:29

Instrument :

MSVOA_N

ClientSampleId :

TB-01-200901

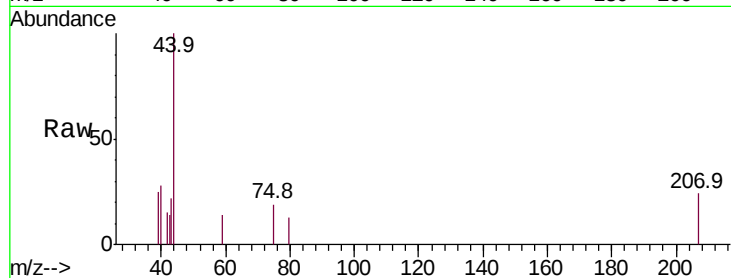
Tot Ion: 43 Resp: 217

Ion Ratio Lower Upper

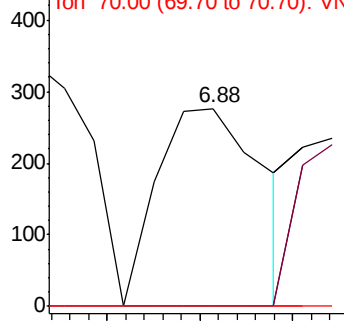
43 100

61 55.3 10.2 15.4#

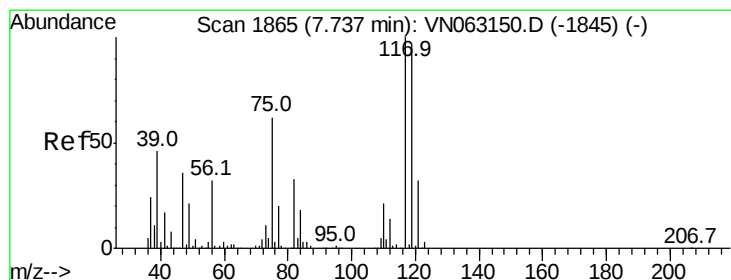
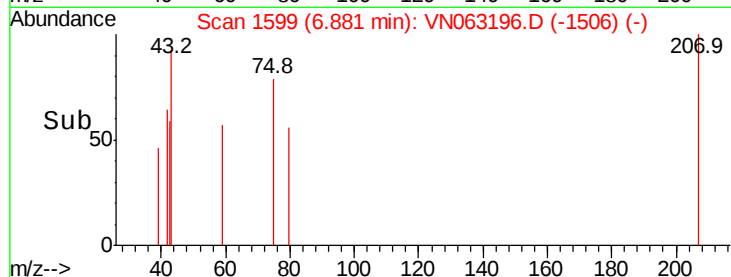
70 0.0 3.0 4.6#



Abundance Ion 43.00 (42.70 to 43.70): VN063150.D (-1587) (-)



Time-->



#38

Carbon Tetrachloride

Concen: 5.882 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063196.D

Acq: 2 Sep 2020 15:29

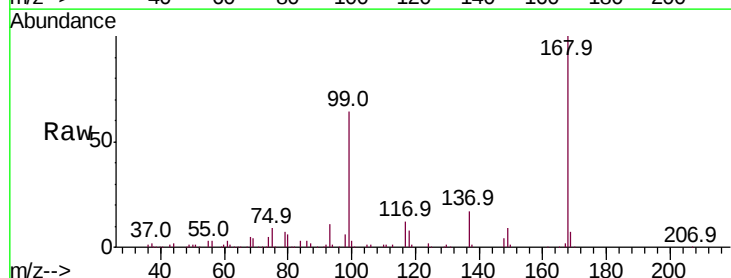
Tgt Ion: 117 Resp: 37844

Ion Ratio Lower Upper

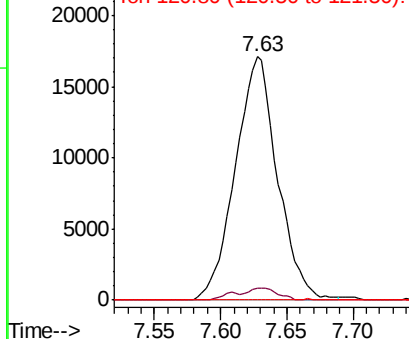
117 100

119 5.1 77.2 115.8#

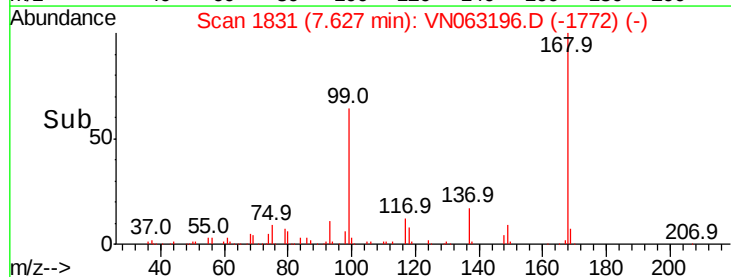
121 0.0 25.6 38.4#

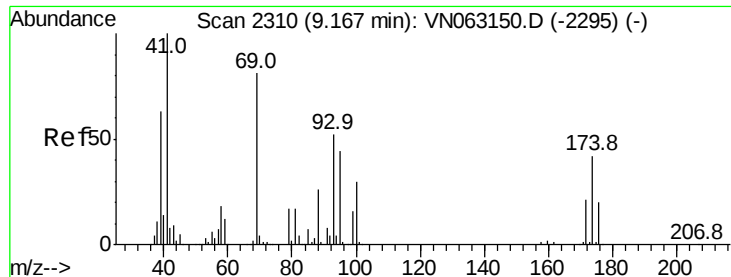


Abundance Ion 116.80 (116.50 to 117.50): VN063150.D (-1845) (-)



Time-->





#49

1,4-Dioxane

Concen: 2.273 ug/l

RT: 9.16 min Scan# 2307

Delta R.T. -0.01 min

Lab File: VN063196.D

Acq: 2 Sep 2020 15:29

Instrument :

MSVOA_N

ClientSampled :

TB-01-200901

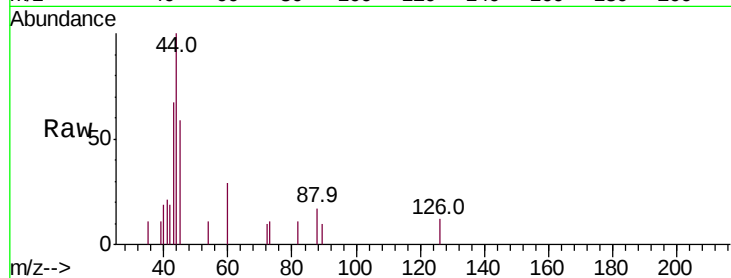
Tot Ion: 88 Resp: 164

Ion Ratio Lower Upper

88 100

43 116.5 28.6 42.8#

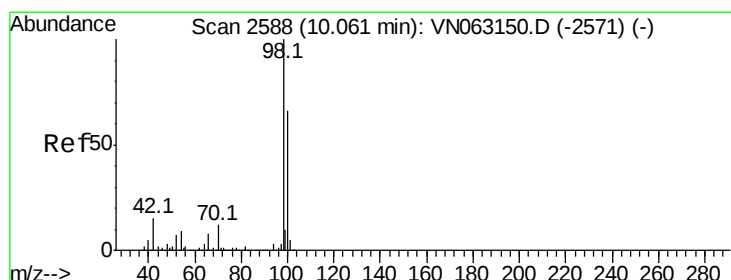
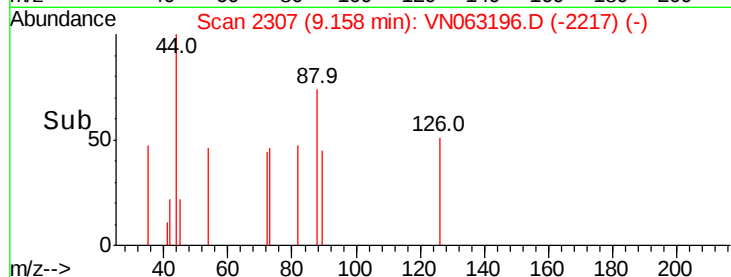
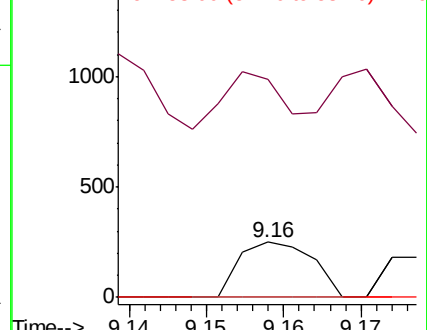
58 0.0 53.2 79.8#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 51.427 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063196.D

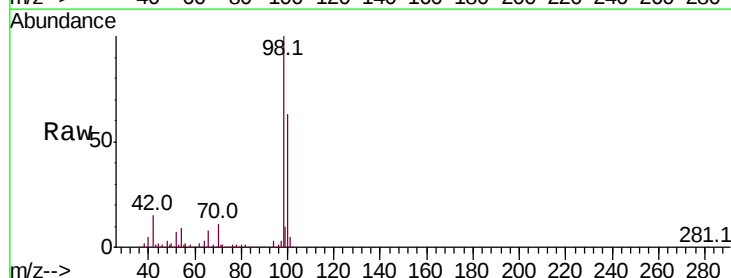
Acq: 2 Sep 2020 15:29

Tgt Ion: 98 Resp: 838068

Ion Ratio Lower Upper

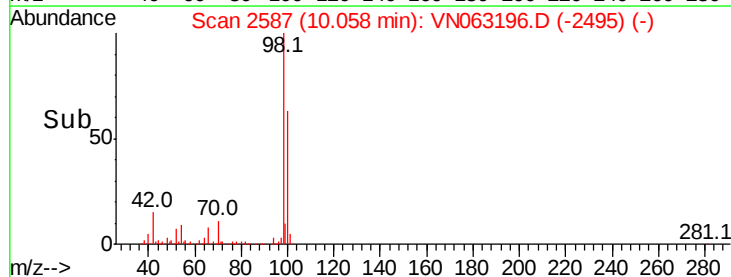
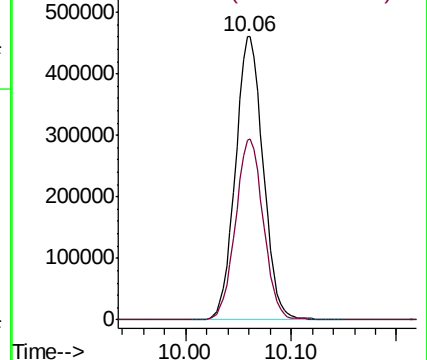
98 100

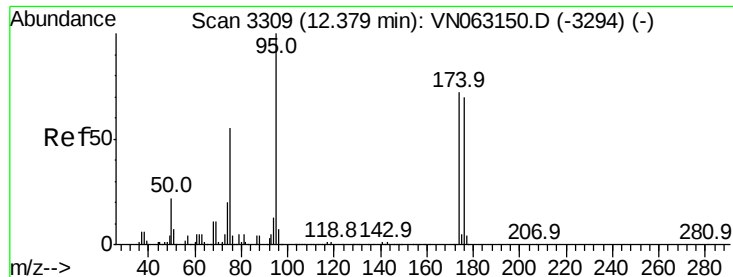
100 64.1 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.449 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063196.D

Acq: 2 Sep 2020 15:29

Instrument :

MSVOA_N

ClientSampleId :

TB-01-200901

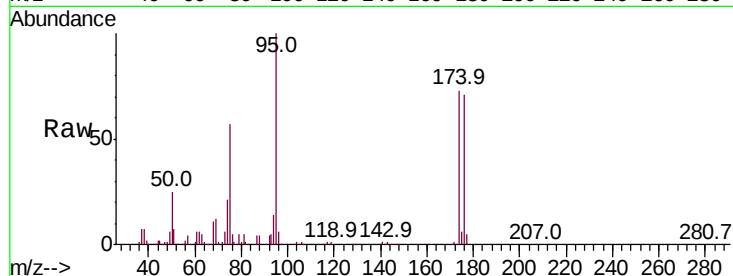
Tot Ion: 95 Resp: 293287

Ion Ratio Lower Upper

95 100

174 74.2 0.0 143.8

176 71.2 0.0 138.4



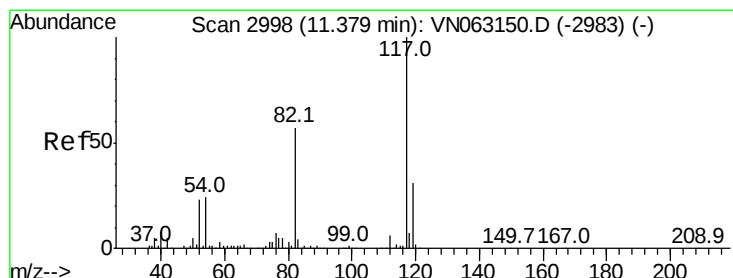
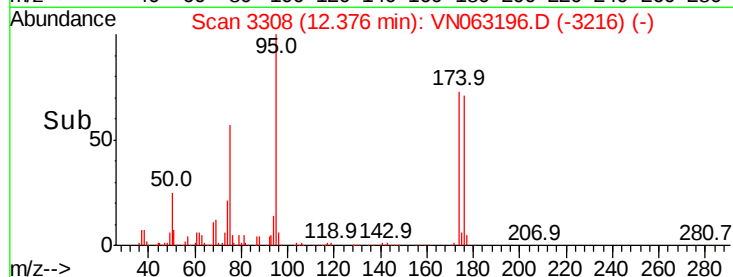
Abundance Ion 94.90 (94.60 to 95.60): VN063150.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063150.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063150.D (-3294) (-)

12.38

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2999

Delta R.T. 0.00 min

Lab File: VN063196.D

Acq: 2 Sep 2020 15:29

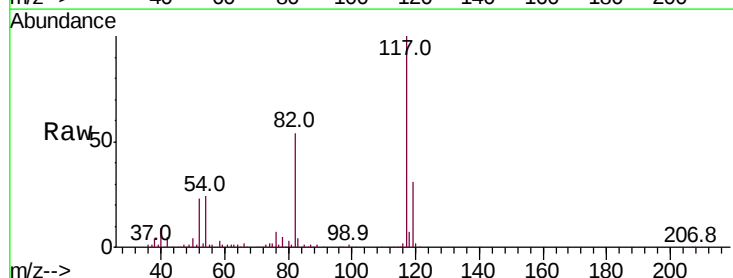
Tgt Ion: 117 Resp: 652650

Ion Ratio Lower Upper

117 100

82 54.0 45.4 68.0

119 30.9 24.6 37.0



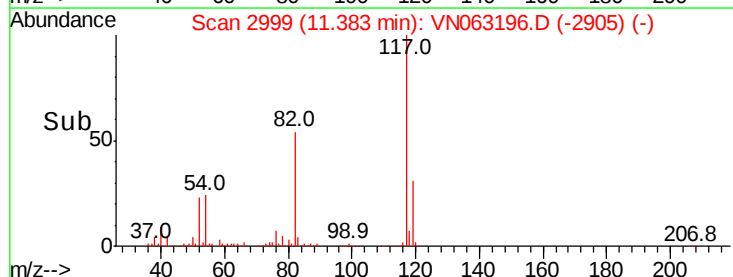
Abundance Ion 116.90 (116.60 to 117.60): VN063150.D (-2983) (-)

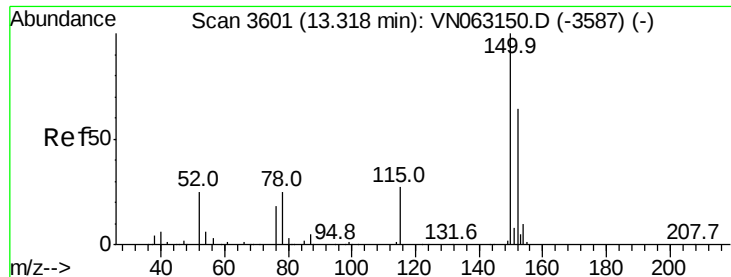
Ion 82.00 (81.70 to 82.70): VN063150.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063150.D (-2983) (-)

11.38

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN063196.D

Acq: 2 Sep 2020 15:29

Instrument :

MSVOA_N

ClientSampleId :

TB-01-200901

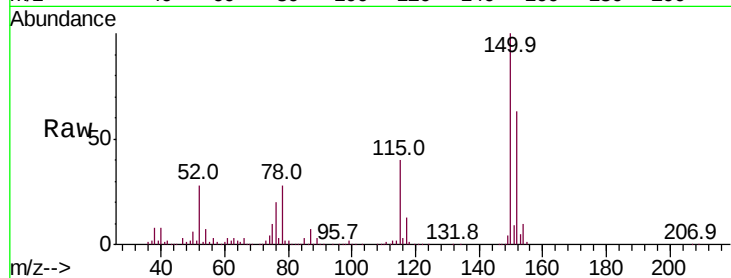
Tot Ion:152 Resp: 257950

Ion Ratio Lower Upper

152 100

115 62.0 32.0 96.2

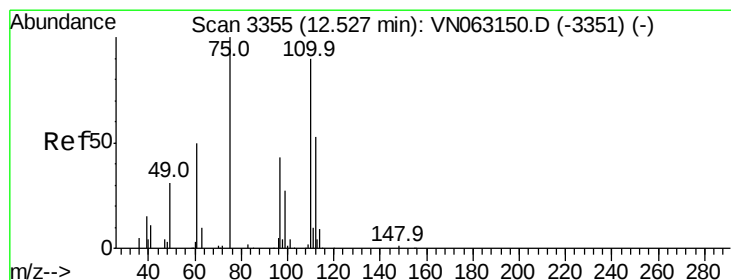
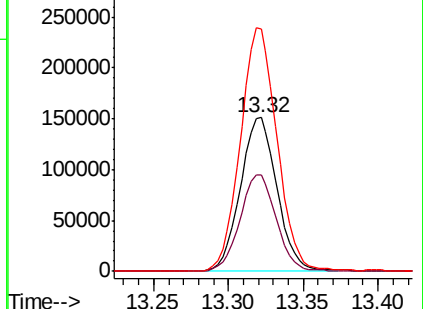
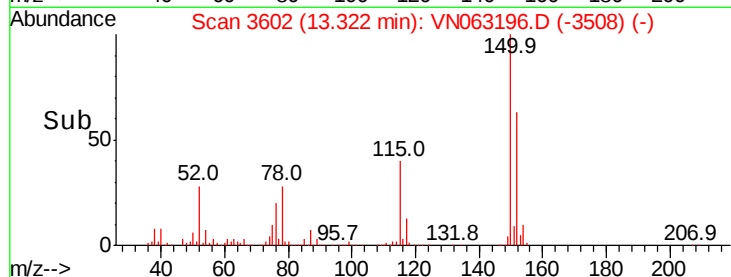
150 158.4 0.0 353.0



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: 33.636 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. -0.15 min

Lab File: VN063196.D

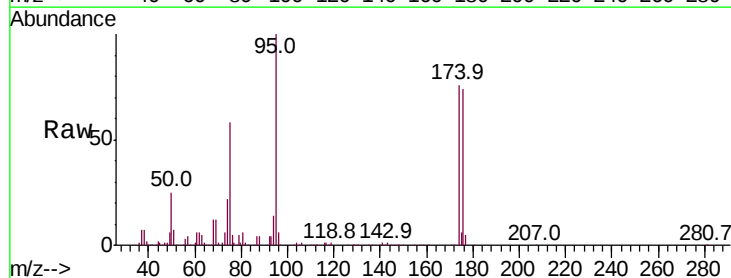
Acq: 2 Sep 2020 15:29

Tgt Ion: 75 Resp: 170472

Ion Ratio Lower Upper

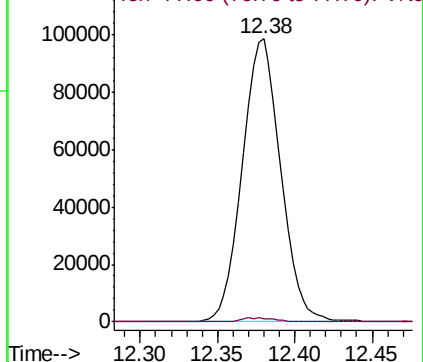
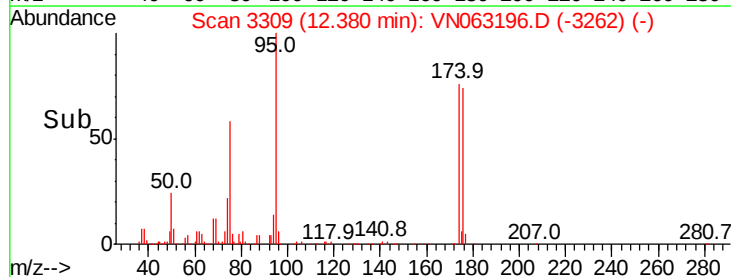
75 100

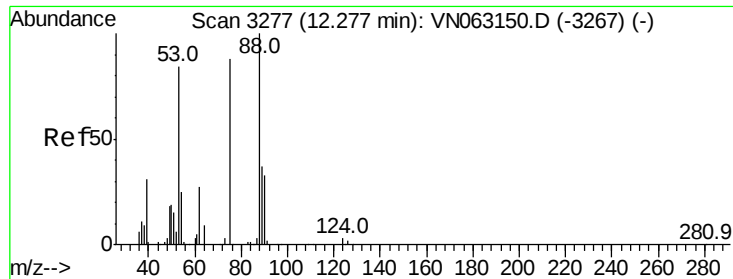
77 1.4 0.0 0.0#



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: 81.297 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.10 min

Lab File: VN063196.D

Acq: 2 Sep 2020 15:29

Instrument :

MSVOA_N

ClientSampleId :

TB-01-200901

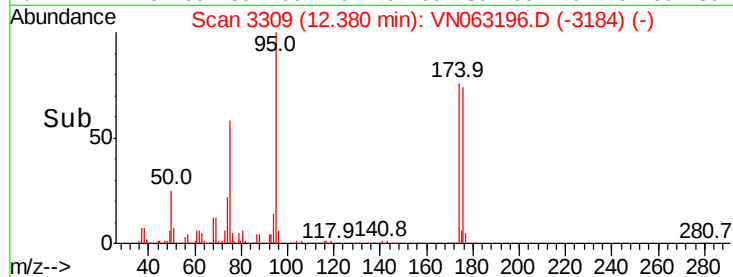
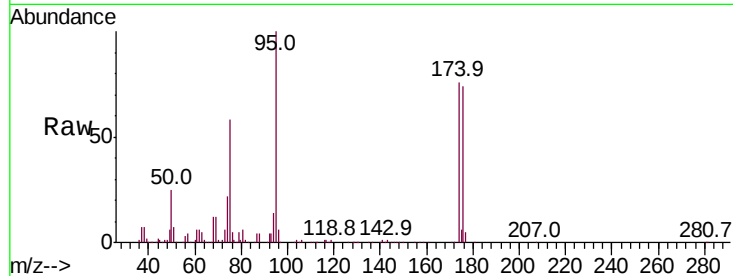
Tot Ion: 75 Resp: 170472

Ion Ratio Lower Upper

75 100

53 0.0 78.7 118.1#

89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

